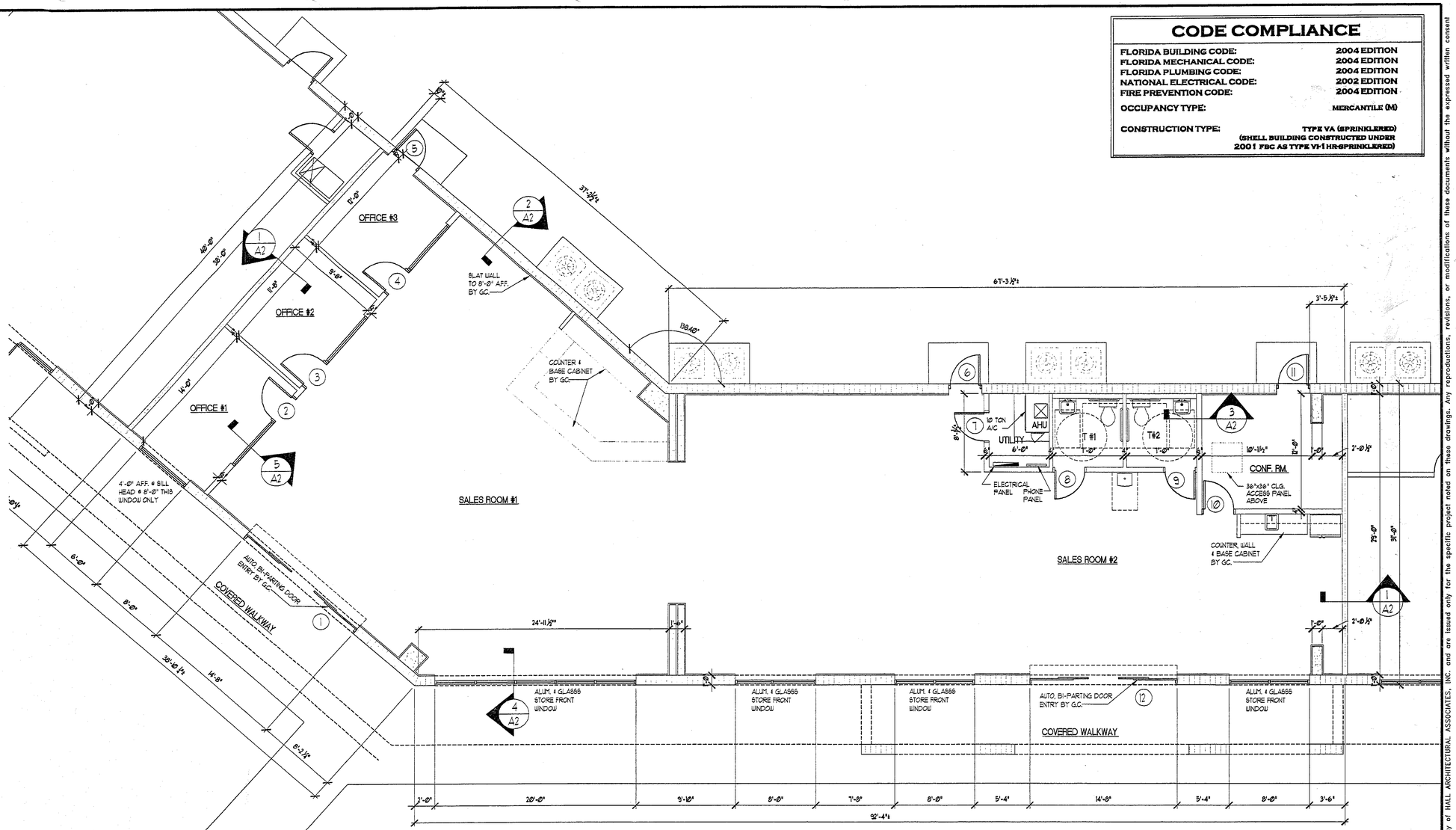
CODE COMPLIANCE

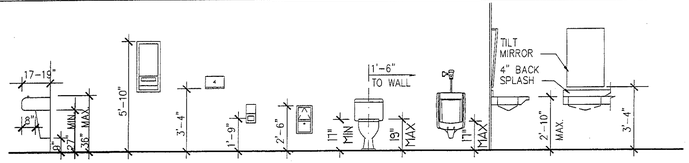
FLORIDA BUILDING CODE:	2004 EDITION
FLORIDA MECHANICAL CODE:	2004 EDITION
FLORIDA PLUMBING CODE:	2004 EDITION
NATIONAL ELECTRICAL CODE:	2002 EDITION
FIRE PREVENTION CODE:	2004 EDITION
OCCUPANCY TYPE:	MERCANTILE (M)
CONSTRUCTION TYPE:	TYPE VA (SPRINKLERED) (SHELL BUILDING CONSTRUCTED UNDER 2001 FBC AS TYPE VI-1 HR-SPRINKLERED)



TRIKE SHOP FLOOR PLAN

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

ACCESSIBLE DESIGN CRITERIA

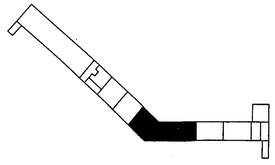


NOTES:

1. ALL DIMENSIONS ARE ABOVE FINISHED FLOOR (AFF.)
2. ALL TOILET PARTITIONS ARE FLOOR MOUNTED. BOTTOMS OF PARTITIONS AND DOORS TO BE @ 1'-0" AFF, AND TOPS OF DOORS AND SIDES TO BE @ 5'-10" AFF.
3. GRAB BARS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/2".
4. PROVIDE 1 1/2" OF CLEARANCE BETWEEN THE RAIL AND THE WALL
5. GRAB BARS SHALL BE ABLE TO SUPPORT NOT LESS THAN 250lb.
6. GRAB BARS SHALL CONFORM TO THE DIMENSIONS SHOWN ABOVE

C FINISH SCHEDULE

SPACE	FLOOR				BASE			WALL		CEILING			REMARKS	
	Stained Concrete	Resilient Tile	Ceramic Tile	Carpet	Metal	Resilient	Ceramic Tile	None	GWB Painted	GWB taped sanded Read ready to paint	Suspended Acoustic Tile	Exposed	Exposed painted	Ceiling Height	
SALES ROOM #1	X					X			X				X		OMIT PAINT AT SLAT WALL
OFFICE #1	X					X					X			9'-0"	
OFFICE #2	X					X					X			9'-0"	
OFFICE #3	X					X					X			9'-0"	
SALES ROOM #2	X					X									
UTILITY	X							X		X		X			
TOILET #1	X					X			X		X			9'-0"	
TOILET #2	X					X			X		X			9'-0"	
CONFERENCE ROOM	X					X			X		X			9'-0"	



KEY PLAN

DATE: 8-7-06

PROJECT NO. 06-1383

HALL
ARCHITECTURAL ASSOCIATES, INC.
ARCHITECTURE □ PLANNING □ DESIGN
5889 AIRPORT ROAD SUITE 1417 PORT ORANGE, FLORIDA 32124
(386) 767-2434 FAX (386) 767-1217 E-MAIL HALLARCHITECTS@FLRR.COM

FLOOR PLAN FOR TRIKE SHOP

DESTINATION DAYTONA
ORMOND BEACH, FL

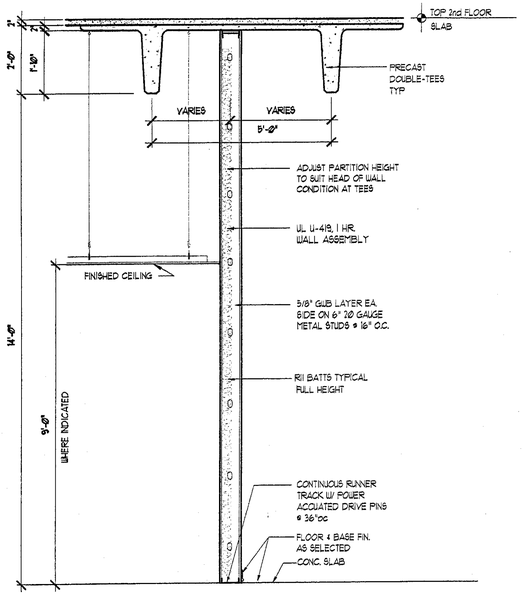
REV#	DATE	DESCRIPTION

ROBERT A. HALL ARCHITECT

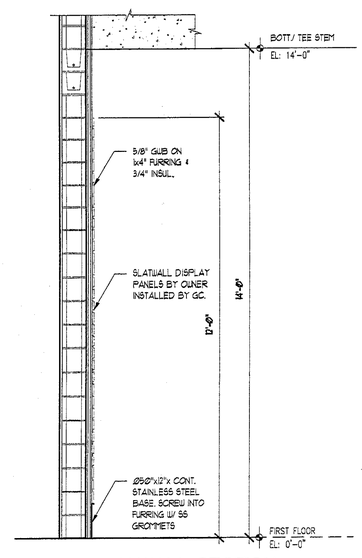
10-17-06

NCARB REGISTRATION NO. 46021
FL. REGISTRATION NO. AR0016887

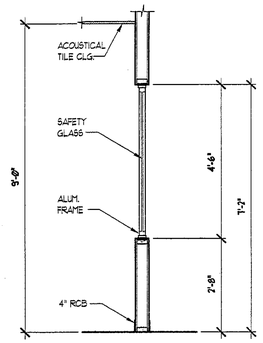
SHEET NO.
A1



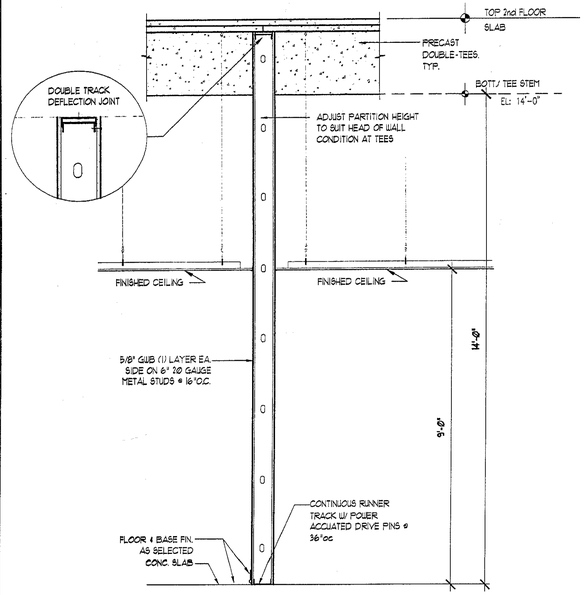
1 **TYP. TENANT SEPARATION WALL**
SCALE: 1/2" = 1'-0"



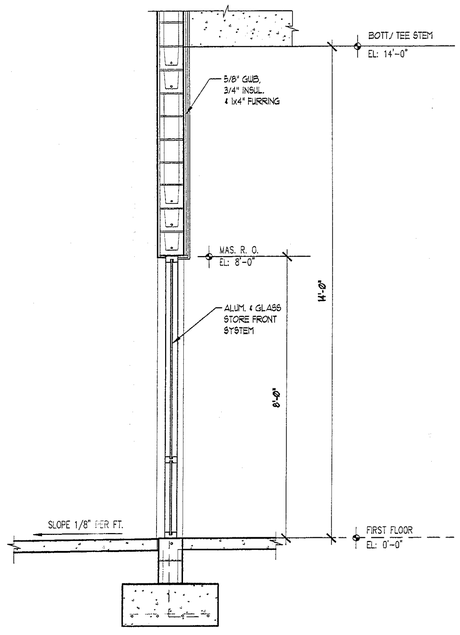
2 **DISPLAY WALL SECTION**
SCALE: 1/2" = 1'-0"



5 **INTERIOR PARTION DETAIL**
SCALE: 1/2" = 1'-0"

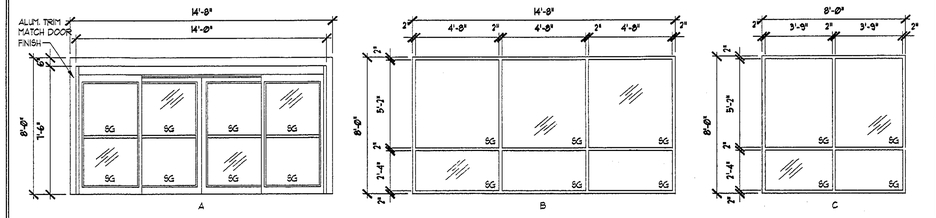


3 **TYP. INTERIOR WALL**
SCALE: 1/2" = 1'-0"

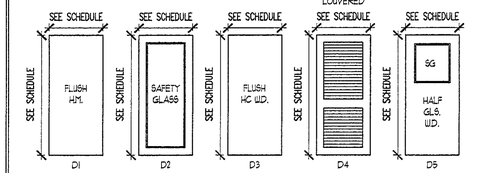


4 **EXTERIOR WALL SECTION**
SCALE: 1/2" = 1'-0"

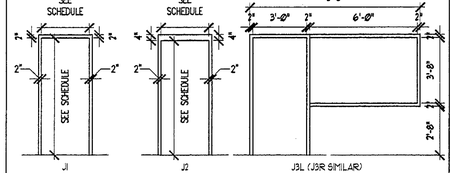
EXTERIOR FRAME ELEVATIONS



DOOR TYPES



HOLLOW METAL FRAMES



HARDWARE SCHEDULE	
HARDWARE SET 1	DRS 1,12
ALL ITEMS BELOW FURNISHED BY DOOR MFR.:	
PIVOTS & TRACK	
ELECTRIC/ELECTRONIC OPERATING SYSTEM	
EXIT DEVICES	
HORIZONTAL MULLIONS	
THRESHOLD	
HARDWARE SET 2	DRS 8,9
1-1/2 PR BUTTS	
PRIVACY LOCKSET	
CLOSER	
WALL STOP AT DOOR MARK 9	
HARDWARE SET 3	DRS 2,3,4
1-1/2 PR BUTTS	
OFFICE LOCKSET	
WALL STOP	
HARDWARE SET 4	DRS 5,6,11
1-1/2 PR BUTTS	
STOREROOM LOCKSET	
CLOSER	
THRESHOLD	
WEATHERSTRIP	
HARDWARE SET 5	DR 5
1-1/2 PR BUTTS	
STOREROOM LOCKSET	
CLOSER	
HARDWARE SET 6	DR 10
1-1/2 PR BUTTS	
PASSAGE LOCKSET	

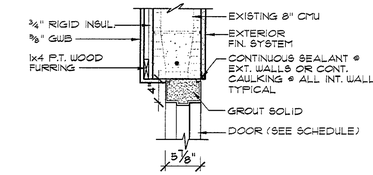
DOOR AND FRAME SCHEDULE

DOOR OPENING	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR MATERIAL	DOOR ELEVATION	DOOR GLASS	FRAME MATERIAL	FRAME ELEVATION	FRAME GLASS	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	LABEL UL RATING	HDWE GROUP NUMBER	REMARKS
1	PR 3'-6"	6'-9"	2"	ALUM.	A	SAFETY	ALUM.	A	SAFETY	3 (SIM.)	4 (SIM.)	--	--	1	1
2	3'-0"	7'-0"	1¾"	WD	D5	SAFETY	H.M.	J3R	SAFETY	5	6	--	--	3	
3	3'-0"	7'-0"	1¾"	WD	D5	SAFETY	H.M.	J3L	SAFETY	5	6	--	--	3	
4	3'-0"	7'-0"	1¾"	WD	D5	SAFETY	H.M.	J3R	SAFETY	5	6	--	--	3	
5	3'-0"	7'-0"	1¾"	H.M.	D1	--	H.M.	J2	--	1	2	--	--	4	2
6	3'-0"	7'-0"	1¾"	H.M.	D1	--	H.M.	J2	--	1	2	--	--	4	2
7	3'-0"	7'-0"	1¾"	H.M.	D4	--	H.M.	J1	--	5	6	--	--	5	
8	3'-0"	7'-0"	1¾"	WD	D3	--	H.M.	J1	--	5	6	--	--	2	
9	3'-0"	7'-0"	1¾"	WD	D3	--	H.M.	J1	--	5	6	--	--	2	
10	3'-0"	7'-0"	1¾"	WD	D5	SAFETY	H.M.	J1	SAFETY	5	6	--	--	6	
11	3'-0"	7'-0"	1¾"	H.M.	D1	--	H.M.	J2	--	1	2	--	--	4	2
12	PR 3'-6"	6'-9"	2"	ALUM.	A	SAFETY	ALUM.	A	SAFETY	3 (SIM.)	4 (SIM.)	--	--	1	1

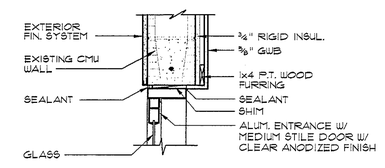
REMARK: 1 FULL BREAKAWAY SLIDING AUTOMATIC ENTRY DOORS W/ STANDARD CONTROLS & HARDWARE PACKAGE, OPT. MNTING & SURFACE MOUNTED THRESHOLD
2. FURNISHED W/SHELL BUILDING.
NOTE: ALL LOCKSETS/ LATCHSETS SHALL BE LEVER HANDLE, SCHLAKE 'RHODES' DESIGN OR EQUAL.

EXTERIOR OPENING NOTES:

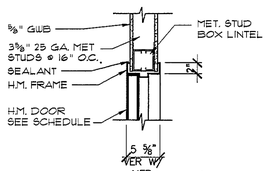
1) ALL EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED IN ACCORDANCE WITH ANSI/AMMA/NWWDA 11/I.S2. STANDARD AND BEAR AN AMMA OR WDMA LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS ARE APPROVED PRODUCT TESTING ENTITY. FBC 1714
2) ALL EXTERIOR WINDOWS AND DOORS, SHALL BE ANCHORED PER PUBLISHED MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE DESIGN PRESSURE SPECIFIED. FBC 1714
3) ALL EXTERIOR WINDOWS AND DOORS WHERE BUCK THICKNESS IS LESS THAN 1-1/2 INCHES, SHALL BE ANCHORED THROUGH THE JAMB INTO THE STRUCTURAL SUBSTRATE. FBC 1714
4) ALL EXTERIOR WINDOWS AND DOORS WHERE BUCK THICKNESS 15 1-1/2 INCHES OR GREATER, THE BUCK MUST BE ATTACHED IN A MANNER THAT TRANSFER THE LOAS DIRECTLY TO THE STRUCTURE. WINDOWS AND DOORS SHALL BE ANCHORED THROUGH THE JAMB INTO THE WOOD BUCK. FBC 1714
5) MULLIONS AND ADJACENT DOOR ASSEMBLIES SHALL BE TESTED TO TRANSFER 15 TIMES THE DESIGNED LOADS TO THE ROUGH OPENING SUBSTRATE, FBC 1714
6) A COMPLETE DOOR AND WINDOW SCHEDULE INCLUDING MANUFACTURER, TESTS AND MODEL NUMBER SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ARCHITECT FOR WINDOW SYSTEMS WHICH DIFFER FROM THOSE HEREIN.



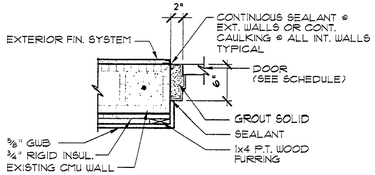
1 **EXTERIOR WALL HEAD DETAIL- HOLLOW METAL FRAME**
SCALE: 1" = 1'-0"



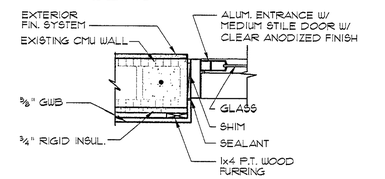
3 **EXTERIOR WALL HEAD DETAIL- ALUMINUM FRAME**
SCALE: 1" = 1'-0"



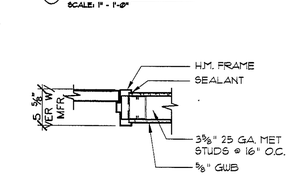
5 **INTERIOR WALL HEAD DETAIL- HOLLOW METAL FRAME**
SCALE: 1" = 1'-0"



2 **EXTERIOR WALL JAMB DETAIL- HOLLOW METAL FRAME**
SCALE: 1" = 1'-0"



4 **EXTERIOR WALL JAMB DETAIL- ALUMINUM FRAME**
SCALE: 1" = 1'-0"



6 **INTERIOR WALL JAMB DETAIL- HOLLOW METAL FRAME**
SCALE: 1" = 1'-0"

DATE: 8-7-06
PROJECT NO. 06-1383

HALL
ARCHITECTURAL ASSOCIATES, INC.
ARCHITECTURE ☐ PLANNING ☐ DESIGN
5065 AIRPORT ROAD SUITE 1417 , POMPANO BEACH, FLORIDA 33064
(954) 782-2454 FAX (954) 782-1217 E-MAIL HALLARCHITECT@AOL.COM

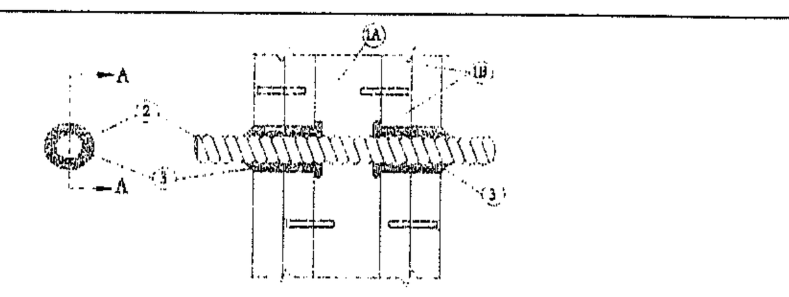
FLOOR PLAN FOR TRIKE SHOP

DESTINATION DAYTONA
ORMOND BEACH, FL

REV#	DATE	DESCRIPTION
REV-1	9-15-06	OWNER COMMENTS
REV-2	9-21-06	REV. CLARIFICATION

ROBERT A. HALL ARCHITECT
NCARB REGISTRATION NO. 46021
FL. REGISTRATION NO. AR0016887

SHEET NO.
A2



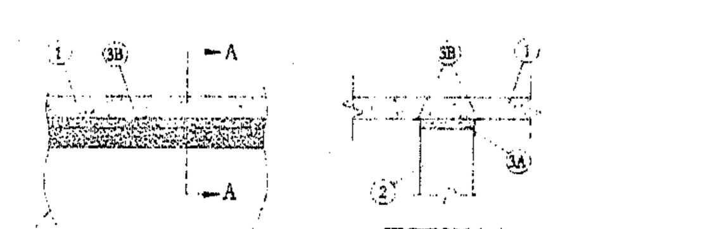
SECTION A-A

System No. W-L-1077

F Rating - 2 Hr
T Rating - 0 Hr

1. Wall assembly- The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
   B. Gypsum Board*- Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening cut in gypsum wallboard layers is 1-15/16 in.
   C. Fasteners- When wood stud framing is employed, gypsum wallboard attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design. Diam of circular through opening cut through both layers of gypsum wallboard on each side of wall assembly to be min 1/4 in. to max 11/16 in. larger than outside diam of flexible metal piping (Item 2) installed in through opening. Side edge of circular opening to be min 3 in. from nearest stud in wall cavity.
2. Through-Penetrating Product* - Flexible Metal Piping- Nom 1 in. diam (or smaller) steel Flexible Metal Piping. Max one flexible metal piping to be installed near center of circular opening in gypsum wallboard layers. Flexible metal piping to be rigidly supported on both sides of wall assembly. Plastic covering on piping shall be removed for a distance of 2 ft on both sides of wall assembly.
   TITEFLEX CORP
   A BUNDY CO
3. Fill, Void or Cavity Material* - Caulk - Caulk fill material forced into annular space around entire circumference of through penetrating product to completely fill nom 1-1/4 in. deep opening in gypsum wallboard layers on each side of the wall assembly.
   3M COMPANY -CP 25WB+

*Bearing the UL Classification Mark



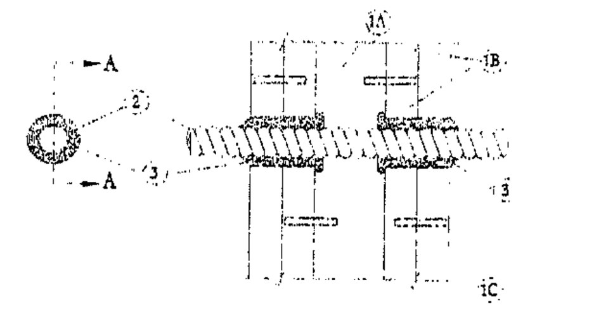
SECTION A-A

System No. HW-D-0023

Assembly Ratings - 2 Hr
L Rating at Ambinet - Less than 1 CFM/Lin Ft.
L Rating a 400 F - Less than 1 CFM/Lin Ft.
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 18.75% Compression Or Extension.

1. Floor Assembly- Min 4-1/2 in. thick steel-reinforced lightweight or normal weight (100-150 pcf) structural concrete.
2. Wall Assembly- Min 6-1/8 in. thick steel-reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. See Concrete Blocks (CAZT) category in Fire Resistance Directory for names of manufacturers.
3. Joint System- Max separation between bottom of floor and top of wall is 1 in. The joint system is designed to accommodate a max 18.75 percent compression or extension from its installed width. The joint system consists of a forming material and a fill material, as follows:
   A. Forming Material*- Min 6-1/8 in. thickness of min 4 pcf density mineral wool batt insulation, cut to a min 1-3/8 in. height, compressed and firmly packed into the gap between the top of wall and bottom of the floor as a permanent form.
      FIBREX INSULATIONS INC -FBX Safing Insulation
      IIG MINWOOL L L C -Safing Insulation/MW
      ROCK WOOL MANUFACTURING CO -Delta Board or Delta-8
   ROXUL INC - Type Safe
   THERMAFIBER L L C -Type SAF
   B. Fill, Void or Cavity Material*- Min 1/16 in. (dry, 1/8 in. wet) thickness of fill material sprayed or brushed on each side of the wall between the top of the wall and the bottom of the floor to completely cover mineral wool and overlap a min of 1 in. onto wall and floor on both sides of wall.
      3M COMPANY -FireDam? Spray 100, Fire Barrier Spray 100.

*Bearing the UL Classification Mark



SECTION A-A

System No. W-L-1017

(Formerly System No. 328)
F Ratings - 1 and 2 Hr. (See Item 3)
T Rating - 0 Hr
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft

1. Wall Assembly- The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
   B. Gypsum Board* - Nom 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, specified in the individual Wall and Partition Design. Diam of circular through opening cut through gypsum wallboard on each side of wall assembly to be min 0 in. (point contact) to max 1 in. larger than outside diam of flexible metal conduit (Item 2) installed in through opening. Side edge of circular opening to be min 3 in. from nearest stud in wall cavity.
   C. Fasteners- When wood stud framing is employed, gypsum wallboard attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.
2. Through Penetrating Product* - Flexible Metal Conduit- Nom 4 in. diam (or smaller) aluminum or steel Flexible Metal Conduit+. Max one flexible metal conduit to be installed near center of circular opening in gypsum wallboard. Flexible metal conduit to be rigidly supported on both sides of wall assembly.
AFC CABLE SYSTEMS INC
3. Fill, Void or Cavity Material* - Caulk- Caulk fill material forced into annular space around entire circumference of through penetrating product to completely fill opening in gypsum wallboard layers on each side of the wall assembly. A min 5/8 in. thickness of caulk is required for the 1 hr F Rating. A min 1-1/4 in. thickness of caulk is required for the 2 hr F Rating.
3M COMPANY -CP 25WB+
*Bearing the UL Classification Mark

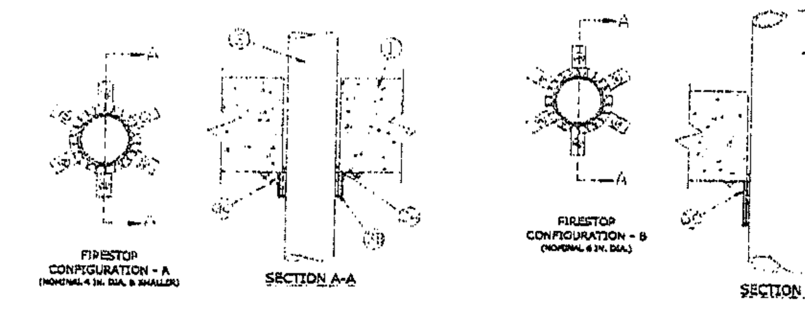
System No. W-L-2033

(Formerly System No. 573)
F Rating - 2 Hr
T Rating - 1-1/2 Hr
L Rating At Ambient - 15 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft

1. Wall Assembly - The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in.(92 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board*- Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Diam of opening cut in gypsum wallboard layers on each side of wall assembly to be 1/2 to 3/4 in. (13 to 19 mm) larger than outside diam of ENT (Item 2) such that, when installed, a 1/4 to 3/8 in. (6 to 10 mm) annular space will be present between the ENT and the gypsum wallboard around the entire circumference of the opening. Max diam of opening is 3 in. (76 mm).
2. Electrical Nonmetallic Tubing#- Nom 2 in. (51 mm) diam (or smaller) ENT constructed of polyvinyl chloride (PVC). One ENT centered in circular openings in gypsum wallboard layers and rigidly supported on both sides of the wall assembly.
See Electrical Nonmetallic Tubing (FKHU) category in Electrical Construction Materials Directory for names of manufacturers.
3. Fiber Optic Cable- Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in. (16 mm).
4. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface on each side of wall assembly.
3M COMPANY -FS-195+
5. Fill, Void or Cavity Materials* - Caulk - Min 1/4 in. (6 mm) diam continuous bead applied to leading edge of wrap strip layer (Item 4) prior to insertion of wrap strip layer into annular space. After insertion of wrap strip layer in annular space, a nom 1/4 in. (6 mm) diam continuous bead is to be applied to the wrap strip/wall interface and to the exposed edge of the wrap strip approx 3/4 in. (19 mm) from the wall surface on each side of the wall assembly.
3M COMPANY -CP 25WB+, IC 15WB or FireDam 150+

Note:

#Bearing the UL Listing Mark
*Bearing the UL Classification Mark



System No. C-AJ-2214

F RATING - 3 HR
T RATING 1 3/4, 2 AND 3 HR. (SEE ITEM 2)

1. Floor or Wall Assembly Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 8 in. thick UL Classified hollow-core Precast Concrete Units*. Max diam of opening is 7 in.
See Concrete Block and Precast Concrete Units (CAZT) (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, Not Shown)-Nom 5 in. diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. For use with nom 4 in. diam (or smaller) pipes or conduits. T Rating is 1-3/4 when sleeve is used.

2. Through Penetrants One nonmetallic pipe or conduit to be centered within opening with a nom 1/4 in. annular space between pipe or conduit and periphery of opening. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe Nom 6 in. diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Rigid Nonmetallic Conduit++ Nom 6 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 6 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
D. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 6 in. diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
E. Fire Retardant Polypropylene (FRPP) Pipe Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
F. Polyvinylidene Fluoride (PVDF) Pipe Nom 2 in. diam (or smaller) SDR 11, or nom 4 in. diam (or smaller) SDR 32.5 PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
T Rating is 1-3/4 Hr for nom 2-1/2 through 4 in. diam FRPP pipes. T Rating is 2-1/2 Hr for nom 2-1/2 through 4 in. diam PVC pipes or conduits. T Rating is 3 Hr for all other pipes or conduits.

3. Firestop System The details of the firestop system shall be as follows:
A. Fill, Void or Cavity Materials* -- Caulk or Putty Min 1/2 in. thickness of caulk or putty applied within annular space, flush with bottom of floor or both sides of wall.
3M COMPANY -- CP 25WB+ Caulk, MPS-2+ Putty

Firestop Configuration A
(Nom 4 in. diam and smaller pipes)

A1. Fill, Void or Cavity Materials* -- Sealant (Optional, Not Shown) For floor assemblies, an additional min 1/2 in. thickness of sealant may be applied within the annular space flush with top surface of floor.
3M COMPANY -- FB-1000 NS Sealant

B. Fill, Void or Cavity Materials* -- Wrap Strip Nom 1/8 in. thick intumescent material supplied in 2 in. wide strips. Wrap strip tightly wrapped around nonmetallic pipe with continuous layers and butted tightly against the bottom surface of the floor or both surfaces of the wall. The min number of layers required is dependent upon the nom diam of the pipe. For nom 2 in. diam (and smaller) pipes, two layers are required. For nom 2-1/2 in. and 3 in. diam pipes, three layers are required. For nom 3-1/2 in. and 4 in. diam pipes, four layers are required. Wrap strip layers temporarily held in position using aluminum foil tape, steel wire tie, or equivalent.
3M COMPANY -- Ultra GS

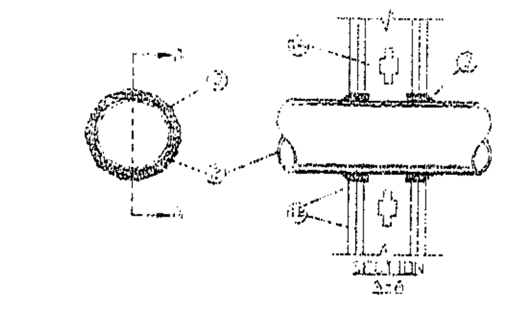
C. Steel Collar Nom 2 in. deep collar with 1-1/4 in. wide by 2 in. long anchor tabs and min 1/2 in. long tabs to retain wrap strip layers. Coils of precut 0.016 in. thick (28 gauge) galv sheet steel available from wrap strip manufacturer. As an alternate, collar may be field-fabricated from min 0.016 in. thick (28 gauge) galv sheet steel in accordance with instruction sheet supplied by wrap strip manufacturer. Steel collar, with anchor tabs bent outward 90 deg, wrapped tightly around wrap strip layers with min 1 in. overlap at seam. Anchor tabs to be pressed tightly against floor or wall surface(s), and collar to be compressed around wrap strip layers using a min 1/2 in. wide by 0.028 in. thick stainless steel band clamp at the collar midheight. As an alternate to the band clamp, collar for systems with three or more layers of wrap strip may be fastened together along with three No. 6 by 3/8 in. long self-tapping steel screws. Collar to be secured to floor or wall surface(s) with 1/4 in. diam by min 1-1/2 in. long steel expansion bolts in conjuction with steel nuts and min 1-1/4 in. diam steel fender washers. Min of two, three or four anchor bolts, symmetrically located, for nom 2 in. diam (and smaller), nom 3 in. diam (and smaller) and nom 4 in. diam (and smaller), pipes, respectively.

Firestop Configuration B
(Nom 6 in. diam pipes)

B. Fill, Void or Cavity Materials* -- Wrap Strip Nom 1/8 in. thick intumescent material supplied in 2 in. wide strips. Min four continuous layers of wrap strip tightly wrapped around nonmetallic pipe and butted tightly against the bottom surface of the floor or both surfaces of the wall. An additional stack of four continuous layers of wrap strip tightly wrapped around nonmetallic pipe and butted tightly against the first layers of wrap strip.
3M COMPANY -- Ultra GS

C. Steel Collar Two nom 2 in. deep collars with 1-1/4 in. wide by 2 in. long anchor tabs and min 1/2 in. long tabs to retain wrap strip layers. Coils of precut 0.016 in. thick (28 gauge) galv sheet steel available from wrap strip manufacturer. As an alternate, collars may be field-fabricated from min 0.016 in. thick (28 gauge) galv sheet steel in accordance with instruction sheet supplied by wrap strip manufacturer. Steel collars wrapped tightly around wrap strip layers with min 1 in. overlap at seams, with anchor tabs bent outward 90 deg for upper or inner collars for securement to wall or floor. Anchor tabs for lower or outer collars to overlap onto upper or inner collars. Collars to be compressed around wrap strip layers using a min 1/2 in. wide by 0.028 in. thick stainless steel band clamp at each collar's midheight.An additional min 1/2 in. wide by 0.028 in. thick stainless steel band clamp to be tightly fastened around collars at the point where anchor tabs of lower or outer collars overlap onto upper or inner collars. As an alternate to the band clamps at each collar's midheight, each collar may be fastened together along the overlapping seam with three No. 6 by 3/8 in. long self-tapping steel screws. The additional steel band clamp fastened around collars at the point where anchor tabs of lower or outer collars overlap onto upper or inner collars is still required when collars are fastened together with screws. Upper or inner collars to be secured to floor or wall surface(s) with 1/4 in. diam by min 1-1/2 in. long steel expansion bolts, or equivalent, in conjuction with steel nuts and min 1-1/4 in. diam steel fender washers. Min of six anchor bolts, symmetrically located, required.
*Bearing the UL Classification Marking

++Bearing the UL Listing Mark



System No. W-L-1001

January 18, 1999

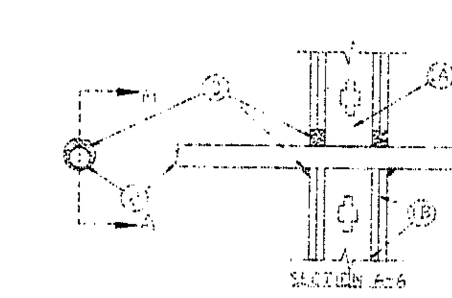
(Formerly System No. 147)
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft

1. Wall Assembly The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. Gypsum Board* Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.
2. Pipe or Conduit Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) Type L or (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe is used, max F Rating of firestop system (Item 3) is 2 h. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material* - Caulk Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below: Max Pipe or Conduit Diam In. Annular Space In. F Rating Hr T Rating Hr
1 0 to 3/16 1 or 2 0+, 1 or 2
1 1/4 to 1/2 3 or 4 3 or 4
4 0 to 1-1/2 1 or 2 0
6 1/4 to 1/2 3 or 4 0
12 3/16 to 3/8 1 or 2 0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY -- CP 25WB+.

*Bearing the UL Classification Mark



System No. W-L-2088

December 27, 1999

F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 0, 1 and 2 Hr (See Item 2)

1. Wall Assembly The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Diam of opening shall be 7/8 in. larger than the outside diam of nonmetallic pipe or conduit (Item 2).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space for nom 1-1/4 in. diam and smaller between the pipe or conduit and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. The annular space for pipe or conduit greater than nom 1-1/4 in. diam between the pipe or conduit and periphery of opening shall be min 1/2 in. to max 1 in. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe Nom 2 in. diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
C. Polyvinyl Chloride (PVC) Pipe Nom 3 in. diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping system.
D. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 3 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
E. Rigid Nonmetallic Conduit++ Nom 3 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No 70).
F. Electrical Nonmetallic Tubing (ENT)++ Nom 1 in. diam (or smaller) ENT formed of PVC, installed in accordance with Article 331 of the National Electrical Code (NFPA No. 70).
See Rigid Nonmetallic Conduit (DZKT) and Electrical Nonmetallic Tubing (FKHU) in UL Construction Materials Directory for names of manufacturers.

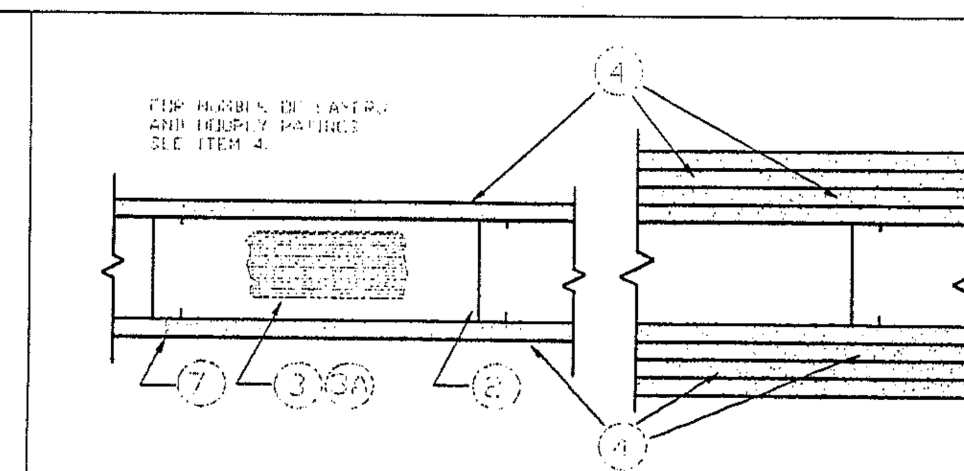
G. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom. 2 in. diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
The hourly T Rating is dependent on the hourly rating of the wall assembly, the pipe or conduit size and whether the pipe is intended for use as a closed or vented system, as shown in the following table.

Nom Pipe
Diam In. Wall Assembly
Rating Hr Closed (c) or
Vented (v) T Rating
Hr
1/2 to 3 1 c 1
1/2 to 1-1/4 1 v 1
1/2 to 1-1/4 2 c 2
1/2 to 1-1/4 2 v 1
2 1 v 0
2 2 v 0

3. Fill, Void or Cavity Materials* -- Caulk or Putty Min thickness of 5/8 in. and 1-1/4 in. of caulk or putty for 1 and 2 hr rated wall assemblies, respectively, applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly. At the point contact location between pipe or conduit and gypsum wallboard, a min 1/2 in. diam bead of caulk or putty shall be applied at the pipe or conduit/wallboard interface on both surfaces of wall assembly.
3M COMPANY - CP 25WB+, MPS-2+

++Bearing the UL Listing Mark.

*Bearing the UL Classification Mark



Design No. U419

October 03, 2005

Nonbearing Wall Ratings -- 1, 2, 3 or 4 Hr (See Items 3 & 4)

1. Floor and Ceiling Runners -- (Not shown) -- Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. Steel Studs -- Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. Batts and Blankets* -- (Required as indicated under Item 4) -- Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
3A. Batts and Blankets* -- (Optional) -- Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
4. Gypsum Board* -- Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:
Wallboard Protection on Each Side of Wall

Rating
Min Stud
Depth No. of Layers
& Thkns
of Panel Min Thkns
of Insulation
(Item 3)
1 3-1/2 1 layer, 5/8 in. thick Optional
1 2-1/2 1 layer, 1/2 in. thick 1-1/2 in.
1 1-5/8 1 layer, 3/4 in. thick Optional
2 1-5/8 2 layers, 1/2 in. thick Optional
2 1-5/8 2 layers, 5/8 in. thick Optional
2 3-1/2 1 layer, 3/4 in. thick 3 in.
3 1-5/8 3 layers, 1/2 in. thick Optional
3 1-5/8 2 layers, 3/4 in. thick Optional
3 1-5/8 3 layers, 5/8 in. thick Optional
4 1-5/8 4 layers, 5/8 in. thick Optional
4 1-5/8 4 layers, 1/2 in. thick Optional
4 2-1/2 2 layers, 3/4 in. thick 2 in.

CANADIAN GYPSUM COMPANY -- 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO -- 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V -- 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

4A. Gypsum Board* -- (As an alternate to Item 4) -- 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY -- Type SHX.

UNITED STATES GYPSUM CO -- Type SHX.

USG MEXICO S A DE C V -- Type SHX.

5. Fasteners -- (Not shown) -- Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
6. Furring Channels -- (Optional, not shown, for single or double layer systems) -- Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.
6A. Steel Framing Members (Not Shown)* -- (Optional on one or both sides, not shown, for single or double layer systems) -- As an alternate to Item 6, furring channels and Steel Framing Members as described below:
a. Furring Channels -- Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.
b. Steel Framing Members* -- Used to attach furring channels (Item 6a) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC -- Type RSIC-1.
7. Joint Tape and Compound -- Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. Siding, Brick or Stucco -- (Optional, not shown) -- Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. Caulking and Sealants* -- (Optional, not shown) -- A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO -- Type AS

*Bearing the UL Classification Mark

DATE: 8-7-06
PROJECT NO. 1399

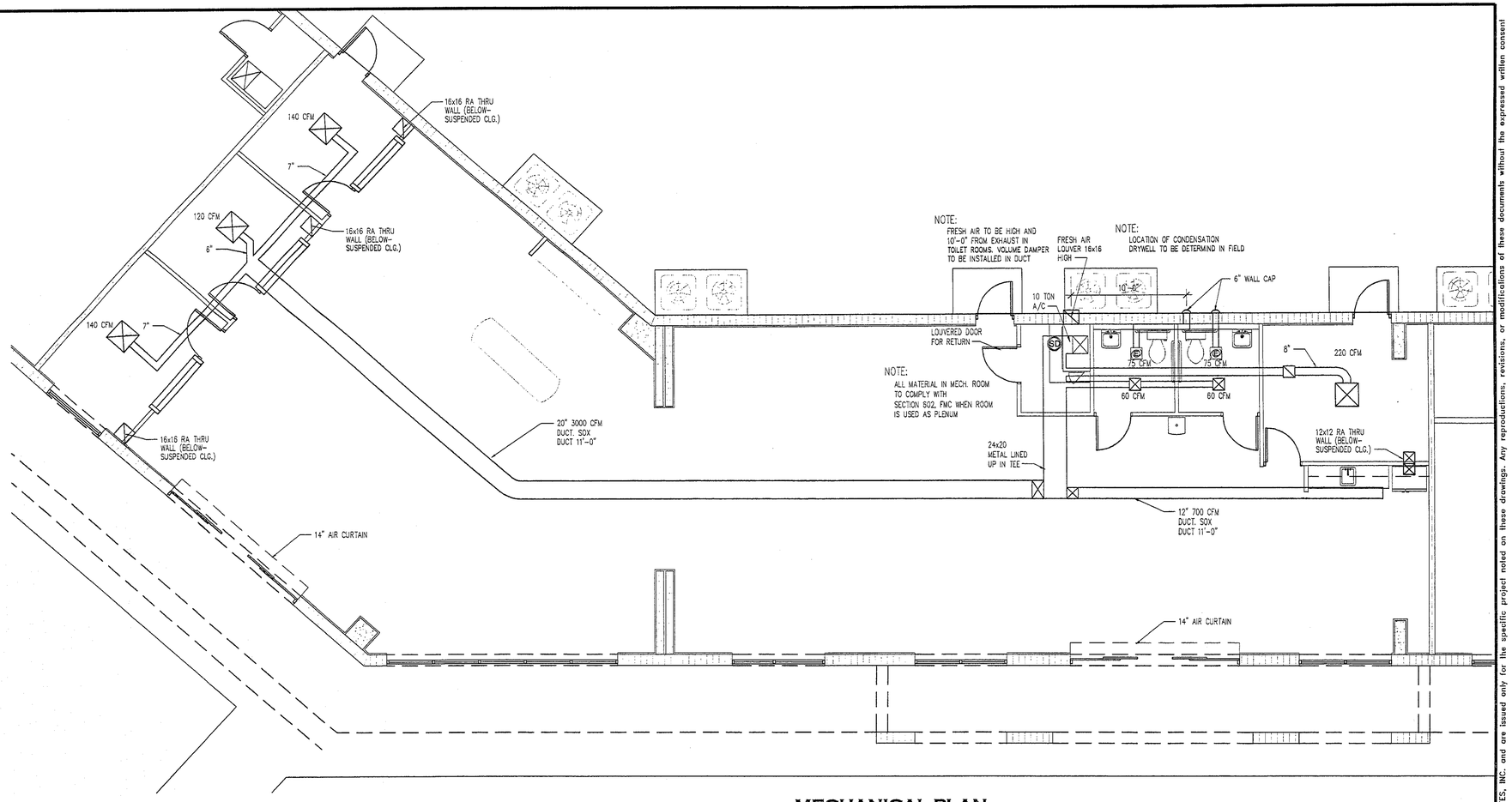
HALL ARCHITECTURAL ASSOCIATES, INC.
ARCHITECTURE □ PLANNING □ DESIGN
5889 AIRPORT ROAD SUITE 201 PORT ORANGE, FLORIDA 32124
(386) 767-2454 FAX (386) 767-1217 E-MAIL HALLARCHITECT@...

PENETRATION INFORMATION FOR:
TRIKE SHOP
DESTINATION DAYTONA
ORMOND BEACH, FL

REV#	DATE	DESCRIPTION
1	9-15-06	OWNER COMMENTS

ROBERT A. HALL ARCHITECT
10-17-06
NCARB REGISTRATION NO. 46021
FL REGISTRATION NO. AR0016887

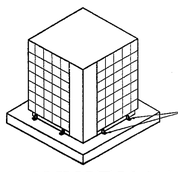
SHEET NO.
A-3.0



MECHANICAL PLAN

1

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

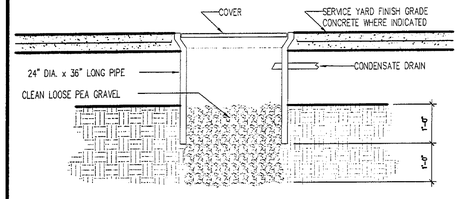


USE #14x1 1/2" SS SHEET METAL SCREWS TO ATTACH ANCHOR TO COMPRESSOR.
USE 3/16"x2 1/4" TAPCON TO ATTACH ANCHOR TO SLAB.
EACH SIMPSON A21 WILL REQUIRE (2)#14x1 1/2" SS SHEET MTL. SCREWS & (2) 3/16"x2 1/4" TAPCONS.

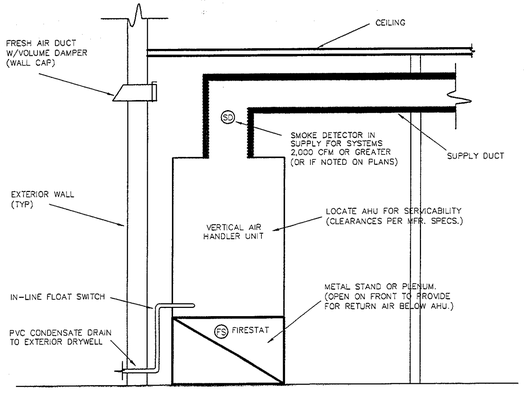
NOTE: USE (2) 18g SIMPSON A21 ANGLE ANCHORS PER SIDE OF ACU (8 TOTAL)

ACU INSTALLATION DETAIL

CONNECTION FOR USE 120mph WINDZONE



DRY WELL DETAIL



AHU INSTALLATION DETAIL

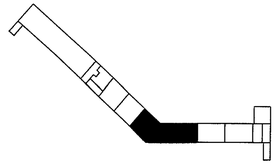
SCALE: N.T.S.

HVAC EQUIP.

ONE (1) 10 TON UNITS
AHUs 40RMQ12 AHU 2 ½ HP 208 3 PH.
HEATER 10 KW 208 3 PH.
ACUs 38AKS012 CONDENSOR 208 3 PH.
WITH SMOKE DETECTORS

LEGEND

- EXHAUST FAN (50 CFM MIN)
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE



KEY PLAN

DATE: 8-7-06

PROJECT NO. 06-1383

HALL
ARCHITECTURAL ASSOCIATES, INC.
ARCHITECTURE □ PLANNING □ DESIGN
5889 AIRPORT ROAD SUITE 1417 PORT ORANGE, FLORIDA 32124
(386) 767-2434 FAX (386) 767-1217 E-MAIL HALLARCHITECT@CFL.RR.COM

FLOOR PLAN FOR TRIKE SHOP

DESTINATION DAYTONA
ORMOND BEACH, FL.

REV#	DATE	DESCRIPTION
REV-1	9-15-06	OWNER COMMENTS
REV-2	9-21-06	REV. CLARIFICATION

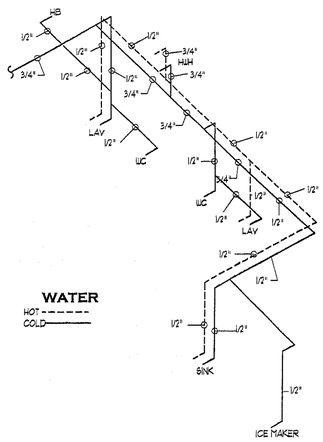
ROBERT A. HALL ARCHITECT

Robert A. Hall 10-17-06

NCARB REGISTRATION NO. 46021
FL. REGISTRATION NO. AR0016887

SHEET NO.

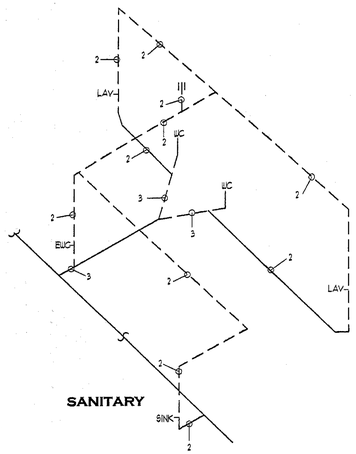
M1



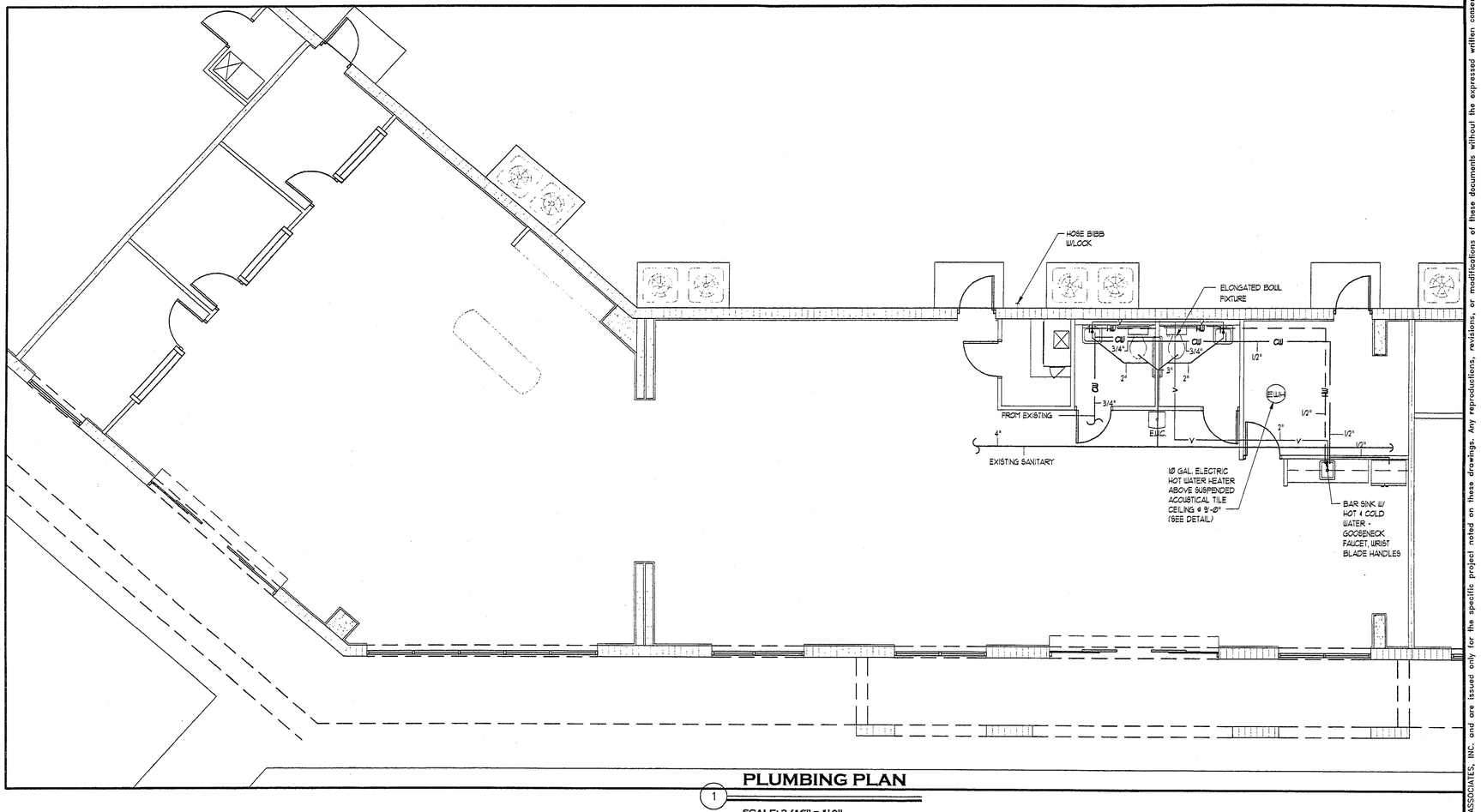
WATER

HOT ------

COLD ——



SANITARY



PLUMBING PLAN

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

GENERAL PLUMBING NOTES

1. PLUMBING CONTRACTOR SHALL READ ALL JOB SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL INFORMATION.
2. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND LOCAL AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.
3. PIPE ROUTING SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE GENERAL ROUTING. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION IN ORDER TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD. PLUMBING PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS.
4. SLEEVE AND FIRE STOP ALL PENETRATIONS (IF ANY) OF RATED WALLS, FLOORS, CEILINGS, ETC. IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR RATED WALLS, CEILINGS AND FLOORS INFORMATION.
5. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL. THE WALL INSULATION SHALL BE PLACED ON THE EXTERIOR SIDE OF THE PIPING. ANY PIPING INSTALLED IN UNCONDITIONED SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING TEMPERATURES.
6. ALL WORK TO BE IN ACCORDANCE WITH LATEST EDITION OF THE STANDARD PLUMBING CODE AND ALL LOCAL ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION.
7. OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
8. SEE RISER DIAGRAMS FOR BRANCH PIPING DETAILS AND SIZES NOT SHOWN ON PLAN.
9. COMMERCIAL TYPE SHOCK ABSORBERS SHALL BE AS SPECIFIED AND INSTALLED ON ALL LOCATIONS REQUIRING SUCH PER P.D.I. REQUIREMENTS.
10. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF THE SYSTEM AND EXTENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF FIXTURES.
11. PIPING SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
12. INSULATE ALL WATER PIPING WITH 1/2" RUBATEX AND JACKET, CLASS A.
13. ALL PLUMBING FIXTURES SHALL BE STANDARD COMMERCIAL GRADE, CLASS A.
14. COLD AND HOT WATER PIPING SHALL BE COPPER WATER TUBE (ASTM B88) WITH WROUGHT-COPPER (ANSI B16.22) OR CAST BRASS (ANSI B16.18) PRESSURE FITTINGS AND ALLOY GRADE (ANSI/ASTM B32) 95TA LEAD-FREE SOLDER JOINTS. DISINFECT WATER PIPING AFTER PRESSURE TEST WITH CHLORINE SOLUTION 50 MG/L) FOR 24 HOURS. FLUSH LINES CLEAN AFTER COMPLETION.
15. SOIL, WASTE, AND VENT PIPING SHALL BE PVC UNLESS THE AUTHORITY HAVING JURISDICTION REQUIRES CAST IRON WASTE AND VENT PIPING. IF CAST IRON THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE PROCEEDING. PROVIDE PVC PIPING: ASTM D2665 SCHEDULE 40. FITTINGS: PVC DWV JOINTS: ASTM WELD.
16. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED, HOWEVER, AND IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF EXISTING UTILITIES.
17. WALL FOOTINGS SHALL NOT BE PENETRATED WITH PIPING. COORDINATE WITH THE GENERAL CONTRACTOR TO DROP FOOTINGS FOR SLEEVED STEM WALL PENETRATIONS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY.
18. ALL FIXTURES DESIGNATED FOR USE BY INDIVIDUALS WITH PHYSICAL INPAIRMENTS SHALL HAVE INSULATION ON ALL EXPOSED PIPING. SUCH INSULATION SHALL BE TRUEBRO-HANDI-LAV GUARD KIT, OR APPROVED EQUAL.
19. PROVIDE CLEANOUTS AS FOLLOWS:
    (A) AT BASE OF EACH VERTICAL STACK INCLUDING BACK.
    (B) AT EACH CHANGE OF DIRECTION OF HORIZONTAL RUNS
    (C) AT 50' FOOT INTERVALS OF HORIZONTAL RUNS.
20. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF ARCHITECT/ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION N WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
21. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS BEFORE SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS.

MATERIAL
SANITARY WASTE AND VENT-SCHEDULE 40 PVC
NO HUB CAST-IRON IN RATED WALLS AND CEILINGS

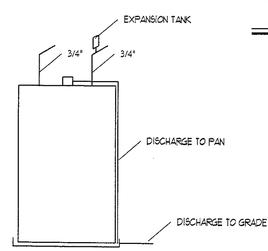
WATER PIPING
BELOW GRADE-TYPE "L" COPPER
ABOVE GRADE-TYPE "M" COPPER

WATER CLOSETS
ELJER #291-2085 ADA
BENNIS 1955-C OPEN FRONTLESS COVER

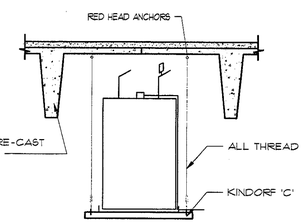
LAVATORIES
ELJER #2051-2104 ADA
FAUCET-PRO VALVE #5801B LEVER HANDLE ADA
TRU BRO TRAP RAP

ELECTRIC WATER COOLER ADA
ELKAY #EZ-8 WATER COOLER

HOT WATER HEATER
A.O. SMITH #ECT-40D ELECTRIC
WILKINSON #XT-8 EXPANSION TANK
PLASTIC DRIP PAN
TATTCO SINKS (BY OWNER)

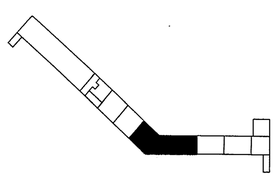


HOT WATER HEATER



HOT WATER HEATER DETAIL ABOVE CEIL'G - INSTAL. BY P.C.

SCALE: 1/2" = 1'-Ø"



KEY PLAN

DATE: 8-7-06

PROJECT NO. 06-1383

HALL
ARCHITECTURAL ASSOCIATES, INC.
ARCHITECTURE □ PLANNING □ DESIGN
5889 AIRPORT ROAD SUITE 1417 PORT ORANGE, FLORIDA 32124
(386) 767-2434 FAX (386) 767-1217 E-MAIL HALLARCHITECTINCFL@R.COM

PLUMBING PLAN FOR TRIKE SHOP

DESTINATION DAYTONA
ORMOND BEACH, FL

REV#	DATE	DESCRIPTION
REV-1	9-15-06	OWNER COMMENTS
REV-2	9-21-06	REV. CLARIFICATION

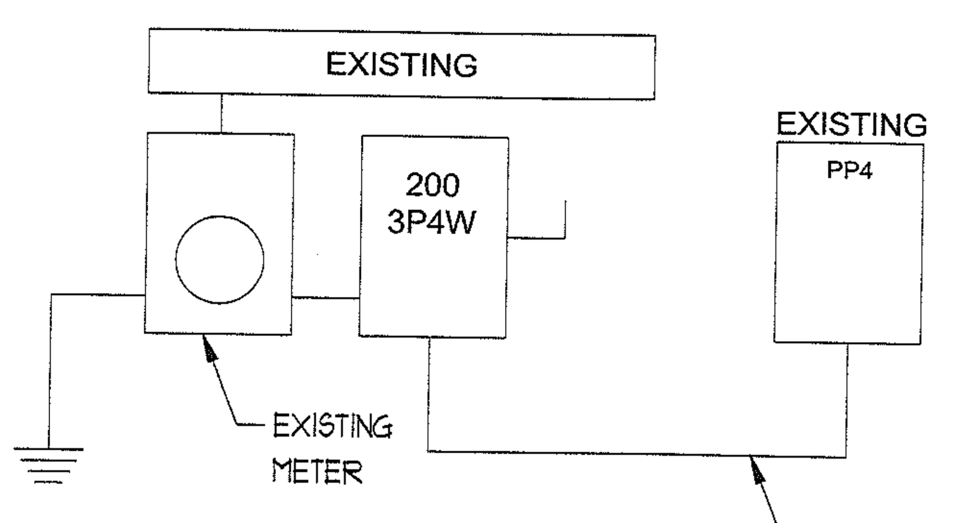
ROBERT A. HALL ARCHITECT

10-17-06

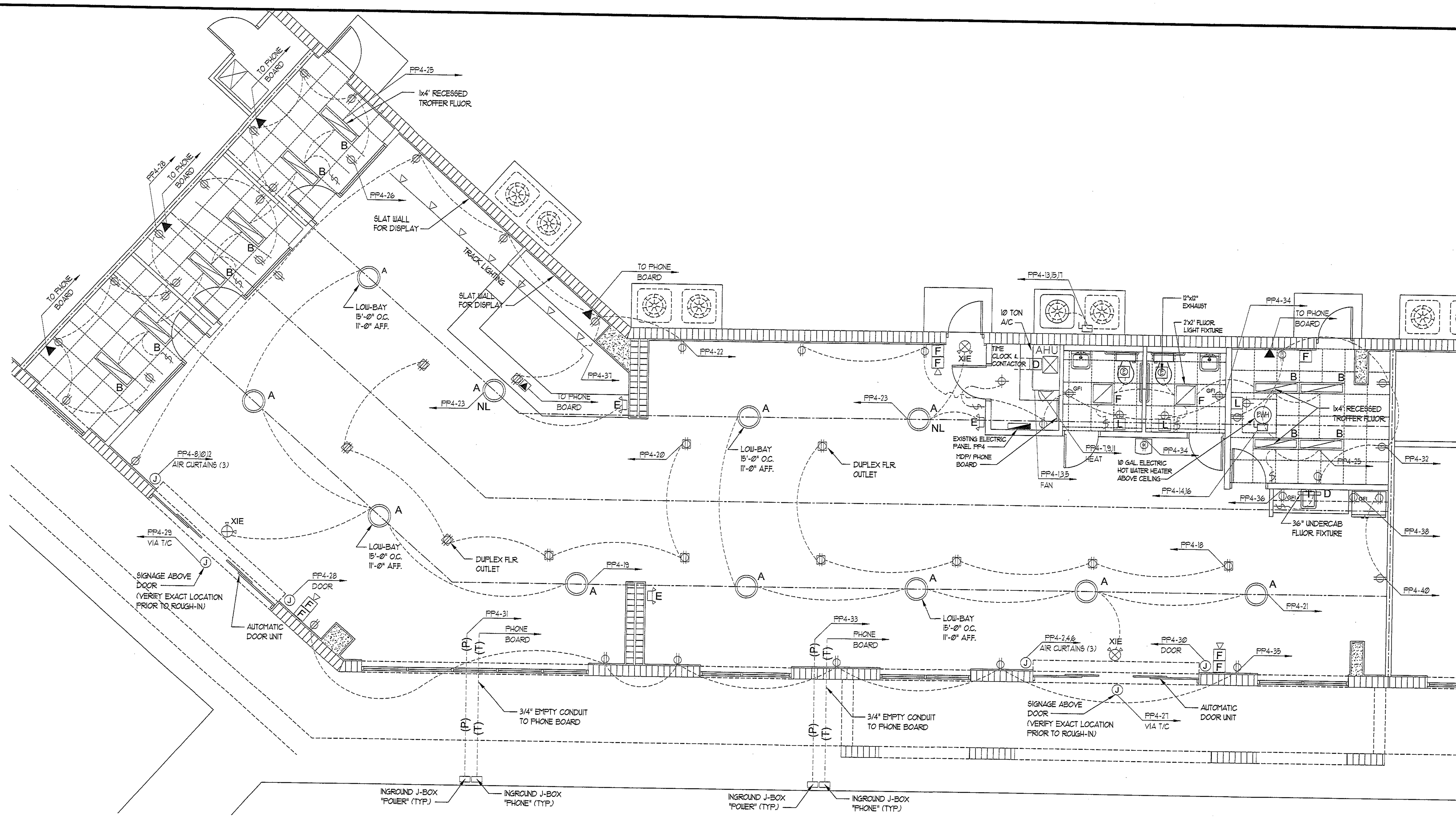
NCARB REGISTRATION NO. 46021
FL. REGISTRATION NO. AR0016887

SHEET NO.

P1



ELECTRICAL RISER



1 ELECTRICAL PLAN

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

LEGEND

E	EMERGENCY BATT. LIGHT			DUPLEX RECEPTACLE
X	LIGHTED EXIT SIGN			220 v RECEPTACLE
	EXHAUST FAN OR VENT		GFI	GROUND FAULT INTERRUPTER CIRCUIT RECEPTACLE
	SWITCH			FLOOR MOUNTED DUPLEX RECEPTACLE
	SWITCH			DISCONNECT
	LIGHT			TELEPHONE & NETWORK WALL BOX 3/4" C. TO PHONE BOARD
	2'X4' FLUORESCENT LAY-IN TROFFER			TELEPHONE RECEPTACLE FLOOR BOX
B	1'X4' FLUORESCENT RECESSED OR SURFACE-MOUNT			PANEL BOX
	2'X2' FLUORESCENT LAY-IN TROFFER		J	JUNCTION BOX
D	FLUORESCENT STRIP		NL	NIGHT LIGHT CIRCUIT
A	LOW- BAY SUSPENED "GEN. LIGHTING" FIXTURE		SD	SMOKE DETECTOR
XIE	EXIT/ EMERGENCY COMBO			
T	TRACK LIGHTING - W/ 75 WATT HCADS			

FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL - MOUNTED 72" A.F.F. TO TOP BOX FURNISHED BY WSA SYSTEMS. PROVIDE 120V CIRCUIT.	L	STROBE LIGHT - 4" SQ. BOX W/ SINGLE RING MOUNTED 80" A.F.F. TO BOTTOM.
PWR	NOTIFICATION POWER SUPPLY - MOUNTED UNDER FACP, BACK BOX FURNISHED BY WSA SYSTEMS. PROVIDE 120V CIRCUIT.	H	MINI HORN - 4" SQ. BOX W/ SINGLE RING - MOUNTED 80" A.F.F. TO BOTTOM.
F	MANUAL PULL STATION - MOUNTED 48" A.F.F. TO TOP, 4" SQ. BOX W/ SINGLE RING. WP = WEATHERPROOF COVER.	D	DUCT DETECTOR - 4" SQ. BOX W/ COVER AND FLEX TO DEVICE.
S	SMOKE DETECTOR - CEILING MOUNTED - 4" SQ. BOX W/ SQ. TO ROUND RING.	R	RELAY - 4" SQ. BOX W/ EXTENSION RING AND COVER MOUNTED WITHIN 3' OF CONTROL POINT.
H	HEAT DETECTOR - CEILING MOUNTED - 4" SQ. BOX W/ SINGLE RING. WP= WEATHERPROOF DEVICE.	W	WATER FLOW SWITCH (FBO) - 4" SQ. BOX W/ EXTENSION RING AND BLANK COVER W/ FLEX TO DEVICE.
F	HORN STROBE - 4" SQ. BOX W/ SINGLE RING - MOUNTED 80" A.F.F. TO BOTTOM.	T	TAMPER SWITCH (FBO) - 4" SQ. BOX W/ EXTENSION RING AND BLANK COVER W/ FLEX TO DEVICE.

GENERAL NOTES

1.) ALL EXIT & EMERGENCY LIGHTING TO BE CONNECTED AHEAD OF ANY SWITCHING ON LOCAL LIGHTING CIRCIUT.
2.) BREAKER LOCK INSTALLED ON EMERGENCY LIGHTING CIRCUIT.
3.) FIRE ALARM DEVICEX SHOWN TO BE CONNECTED TO EXISTING SYSTEM.

LIGHTING NOTES

1.) TRACK LIGHTING:
LIGHTING CONTACTOR DPDT TIME CLOCK LOCATED IN MECH. ROOM.
CIRCUITS: PP4-37
2.) LOW-BAY:
LIGHTING CONTACTOR LC1 SWITCH LOCATED IN MECH. ROOM.
CIRCUITS: PP4-19 & 21
3 POLE EDEH.
3.) CONNECT ALL EMERGENCY AND EXIT LIGHTS AHEAD OF LOCAL LIGHTING CIRCUIT, PROVIDE BREAKER LOCK AT PANEL
4.) BREAKER LOCK INSTALLED ON EMERGENCY LIGHT CIRCUITS.

FIXTURE SCHEDULE

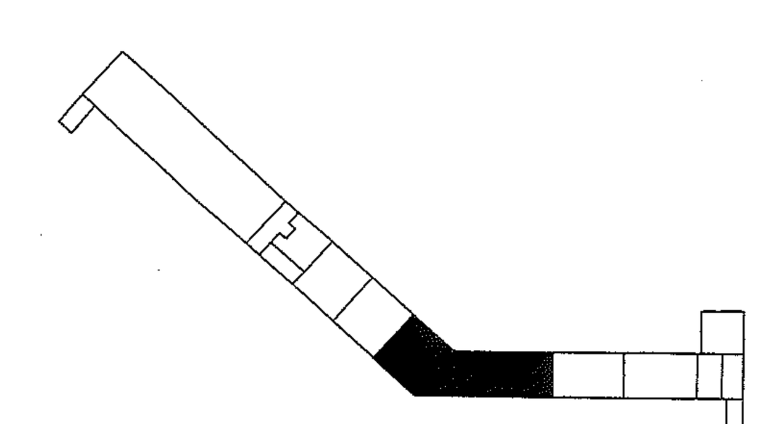
- A LOW-BAY, 250W MH
- B 1'x4' RECESSED OR SURFACE FLUORESCENT 2)-F32T8 LAMPS
- C 8'- 2)-LAMP STRIP 4)-F32T8 LAMPS
- D FLUORESCENT STRIP (VERIFY LENGTH)
- E EMERGENCY BATTERY LIGHT. WALL OR CEILING, LAMPS INCLUDED
- T TRACK, SINGLE OR DOUBLE CIRCUIT AS REQUIRED, COLOR BLACK OR EQUAL.
- T1 TRACK HEAD, SPOT #8338BK W/60 PAR HIRSSP 12 LAMP OR EQUAL.
- T2 TRACK HEAD, WALL WASH, #8279ENBK W/ (2)-F4030BXSPX35 OR EQUAL.

PANEL PP4

TYPE: EXISTING — MAIN BREAKER: MLO — VOLTAGE: 120/208V
MAIN BUS RATING: 10,000 A.I.C. — MOUNT: SURFACE — CURCUIT: 42
NEMA 1 — AMPS: 200 — PHASE: 3 — WIRE: 4

	CKT NO.	DESCRIPTION	DEVICE POLE	DEVICE AMPS	DEVICE WIRE	DEVICE CONDUIT	CKT NO.	DESCRIPTION	DEVICE POLE	DEVICE AMPS	DEVICE WIRE	DEVICE CONDUIT
	1	AHU-FAN	3	20	#12	1/2"	2	AIR CURTAIN (NORTH)	1	20	#12	1/2"
	3	AHU-FAN	3	20	#12	1/2"	4	AIR CURTAIN (NORTH)	1	20	#12	1/2"
	5	AHU-FAN	3	20	#12	1/2"	6	AIR CURTAIN (NORTH)	1	20	#12	1/2"
	7	AHU-HEAT	3	40	#8	3/4"	8	AIR CURTAIN (SOUTH)	1	20	#12	1/2"
	9	AHU-HEAT	3	40	#8	3/4"	10	AIR CURTAIN (SOUTH)	1	20	#12	1/2"
	11	AHU-HEAT	3	40	#8	3/4"	12	AIR CURTAIN (SOUTH)	1	20	#12	1/2"
	13	CU	3	60	#6	3/4"	14	WATER HEATER	2	30	#10	3/4"
	15	CU	3	60	#6	3/4"	16	WATER HEATER	2	30	#10	3/4"
	17	CU	3	60	#6	3/4"	18	FLOOR BOXES	1	20	#12	1/2"
*	19	HIGH BAY LIGHTS	1	20	#12	1/2"	20	FLOOR BOXES	1	20	#12	1/2"
*	21	HIGH BAY LIGHTS	1	20	#12	1/2"	22	OUTLETS	1	20	#12	1/2"
	23	HIGH BAY NITE-LIGHTS	1	20	#12	1/2"	24	OUTLETS	1	20	#12	1/2"
	25	LIGHTS	1	20	#12	1/2"	26	OUTLETS	1	20	#12	1/2"
	27	EXTERIOR SIGNS	1	20	#12	1/2"	28	ELECTRIC DOORS	1	20	#12	1/2"
	29	EXTERIOR SIGNS	1	20	#12	1/2"	30	ELECTRIC DOORS	1	20	#12	1/2"
	31	SIDEWALK POWER	1	20	#12	1/2"	32	OUTLETS	1	20	#12	1/2"
	33	SIDEWALK POWER	1	20	#12	1/2"	34	OUTLETS	1	20	#12	1/2"
	35	OUTLETS	1	20	#12	1/2"	36	OUTLETS	1	20	#12	1/2"
* *	37	TRACK LIGHTS	1	20	#12	1/2"	38	OUTLETS	1	20	#12	1/2"
	39	SPARE	1	20			40	OUTLETS	1	20	#12	1/2"
	41	SPARE	1	20			42					

* VIA LIGHTING CONTACTOR LC-1, 3 POLE EDEA IN MECH. ROOM.
* * VIA LIGHTING DPDT TIME CLOCK IN MECH. ROOM.



KEY PLAN

PAUL M. ESTES, P.E.
ELECTRICAL CONSULTANT
615 NORTH PENINSULA DRIVE
DAYTONA BEACH, FL. 32118
(386)-252-6948
FL. REG. PE # 33651

Bayshore Electric, Inc.

DATE: 8-7-06
PROJECT NO. 06-138

HALL
ARCHITECTURAL ASSOCIATES, INC.
ARCHITECTURE □ PLANNING □ DESIGN

FLOOR PLAN FOR TRIKE SHOP
DESTINATION DAYTONA
ORMOND BEACH, FL

REV#	DATE	DESCRIPTION
REV-1	9-15-06	OWNER COMMENTS
REV-2	9-21-06	REV. CLARIFICATION

ROBERT A. HALL ARCHITECT
NCARB REGISTRATION NO. 46021
FL. REGISTRATION NO. AR0016887

SHEET NO.
E1