

Three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot

GENERAL NOTES

- A. THE CONTRACTOR BEARS A PRIME RESPONSIBILITY TO COMPLY WITH THE NATIONAL ELECTRICAL CODE EVEN WHEN THE PLANS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE CAREFULLY AND CONTINUOUSLY, PARTICULARLY DURING ESTIMATING FOR PROPOSAL, AND ANY DISCREPANCIES OBSERVED SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- B. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN, ON THE SITE, AN ADEQUATE ADMINISTRATIVE SPACE WHERE ONE COMPLETE SET OF PLANS AND SPECIFICATIONS SHALL BE KEPT FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE IN ADDITION TO THE SETS USED BY THE INSTALLING ELECTRICIAN IN CARRYING OUT THEIR DAY-TO-DAY WORK ON THE PROJECT. THE PROJECTED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE PLANS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAILY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE EXTENT THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC.. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK. PARTICULAR CARE SHALL BE TAKEN TO LOCATE BOXES SO THEY ARE NOT BACK-TO-BACK IN WALLS AND TO LOCATE OUTLETS OFF COLUMNS (UNLESS VITAL THEY BE THERE) OR OTHER PLACES WHERE THEY CONFLICT WITH STRUCTURAL STEEL OR REINFORCING BARS.
- C. CONTRACTOR SHALL ALSO MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, EQUIPMENT CUTS, MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. INSTALLING PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING INSTALLATION AND ROUGH-IN SO AS TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION.
- D. COMPLETE AND ADEQUATE HOUSING SHALL BE PROVIDED ON THE SITE FOR ORDERLY AND CAREFUL STORAGE OF ALL MATERIALS AND EQUIPMENT. NOTHING SHALL BE STORED WHERE EXPOSED TO WEATHER EXCEPT CONDUIT, WHICH MAY BE STORED IN RACKS SO IT IS AT LEAST 12 INCHES ABOVE GROUND AND NOT SUBJECT TO MUD BEING SPATTERED ON IT.
- E. IN GENERAL, MOUNTING HEIGHTS OF DEVICES ARE NOT NOTED ON THE CONSTRUCTION DOCUMENTS. SCHEDULES AND NOTES SPECIFY "STANDARD" MOUNTING HEIGHTS FOR THESE ITEMS (SEE SPEC). STUDY CAREFULLY ELEVATIONS OF ALL WALLS AND CABINET WORK AS SHOWN ON ARCHITECTURAL DRAWINGS AND FIT OUTLETS TO SPACE AND TO AVOID CONFLICTS. OUTLETS SHALL ALWAYS BE LOCATED ABOVE, AND NOT IN, BACKSPASHES. COORDINATE OUTLET LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS. ANY CONFLICT THAT CANNOT BE RESOLVED ON THE JOB SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO ROUGH-IN.
- F. BRANCH CIRCUIT WIRE SIZING WILL BE IN ACCORD WITH THE FOLLOWING TABLES:
 

VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT
120/208	0' - 50'	#12	#12
	50' - 100'	#10	#12
	100' - 150'	# 8	#10
- G. ALL RACEWAYS SHALL BE METAL UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. REFER TO SPECIFICATIONS FOR ALL OTHERS.
- H. NO MORE THAN ONE EXTENSION RING WILL BE ALLOWED PER JUNCTION BOX. EXISTING JUNCTION BOXES BEING REUSED SHALL COMPLY.
- I. EXISTING PORTIONS OF THIS FACILITY ARE TO REMAIN IN OPERATION DURING THIS CONSTRUCTION. CONTRACTOR SHALL COOPERATE FULLY WITH THE ADMINISTRATION IN ORDER TO CAUSE AS LITTLE DISRUPTION AS POSSIBLE TO THE FUNCTIONING OF THE FACILITY, AND TO MAINTAIN THE COMFORT AND SAFETY OF ALL PERSONNEL AND STAFF.
- J. PENETRATIONS OF REQUIRED SMOKE TIGHT PARTITIONS SHALL BE SEALED USING U.L. LISTED METHODS. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
- K. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE RULING BUILDING CODE. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE ONLY APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:  
 CONDUIT PENETRATIONS OF 1 & 2 HOUR GYPSUM WALLS - U.L.#W1001  
 CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE OR BLOCK WALLS - U.L.#CAJ1001
- L. ALL PRODUCTS THROUGHOUT THIS PROJECT SHALL COMPLY WITH THE "BUY AMERICAN ACT" AS STATED IN THE SPECIFICATIONS WITHOUT EXCEPTION.

ELECTRICAL SYMBOL LEGEND

	SOLID LINE DENOTES CONDUIT RUN CONCEALED IN WALL, ABOVE CEILINGS, EXPOSED IN UNFINISHED AREAS. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL. DASHED LINE DENOTES CONDUIT RUN BELOW GRADE OR BELOW FINISHED FLOOR.
	HOMERUN TO PANELBOARD. QUANTITY OF ARROWS INDICATES NUMBER OF CIRCUITS.
	SPECIAL EQUIPMENT CONNECTION. SUBSCRIPT INDICATES DESIGNATION. SEE EQUIPMENT CONNECTION SCHEDULE FOR EXACT REQUIREMENTS.
	208Y/120 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. SEE PANELBOARD SCHEDULE FOR EXACT REQUIREMENTS.
	ELECTRICAL EQUIPMENT DESIGNATION.
	MOTOR CONTROL CENTER

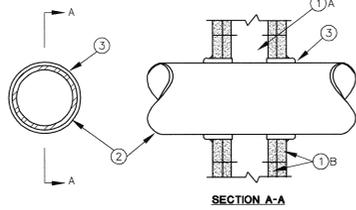
GENERAL DEMOLITION NOTES

- ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL ASSOCIATED CIRCUITRY AND CONDUIT SERVING EQUIPMENT INDICATED AS BEING REMOVED AND/OR DEMOLISHED TO FACILITATE MECHANICAL DEMOLITION AS INDICATED ON MECHANICAL DEMOLITION PLANS. CONDUCTORS AND CONDUIT SHALL BE REMOVED BACK TO SOURCE. FOR CONDUIT AND CONDUCTORS BEING REMOVED BACK TO ELECTRICAL PANELS, REMOVE CONDUCTORS COMPLETELY AND REMOVE CONDUIT BACK TO SPACE DIRECTLY ABOVE PANEL AND CAP. ABANDONED CIRCUIT BREAKERS SHALL BE TURNED OFF AND LABELED AS SPARE.
- ASSOCIATED CIRCUITRY INCLUDES CONDUIT, CONDUCTORS, BOXES, WIRING DEVICES, COVER PLATES, WIREWAYS, SWITCHES, STARTERS, ETC. WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.
- THE OVERCURRENT/PROTECTIVE DEVICES SHALL REMAIN AS AN INTEGRAL PART OF THE EXISTING PANEL OR SWITCHBOARD. LABEL AS SPARE. UPDATE PANELBOARD DIRECTORY AS NECESSARY TO SHOW ALL CHANGES IN PANELBOARD LOAD.
- WHERE CONDUIT, ASSOCIATED WITH AN ITEM SHOWN TO BE REMOVED, IS IN AN INACCESSIBLE AREA SUCH AS ENCASED IN CONCRETE, ABANDON INACCESSIBLE CONDUIT IN PLACE AND CAP OR SEAL.
- WHERE SUCH INACCESSIBLE CONDUIT ENDS OR MUST BE TERMINATED IN FINISHED SPACE, REMOVE THE CONDUIT OR BOX TO BELOW THE FINISHED SURFACE OF WALL, CEILING OR FLOOR. FILL VOID SHALL BE WITH NON-SHRINKING GROUT AND FINISH TO MATCH SURROUNDING SURFACES.
- ALL ABANDONED FLUSH JUNCTION BOXES SHALL HAVE BLANK STAINLESS STEEL COVERS INSTALLED.
- REMOVE ALL CONDUIT, WIRING, DEVICES, EQUIPMENT AND ANY OTHER ELECTRICAL APPURTENANCES RENDERED USELESS OR FOUND TO BE ABANDONED DURING CONSTRUCTION. REMOVAL OF ABANDONED AND USELESS WIRING SHALL BE BACK TO THE SOURCE, EVEN IF OUTSIDE LIMITS OF CONSTRUCTION.
- CONTRACTOR SHALL PATCH AND/OR FIRE STOP ALL VOIDS IN WALLS/FLOORS LEFT OVER FROM THE DEMOLITION PHASE AS REQUIRED TO MAINTAIN ORIGINAL BUILDING WALL RATINGS.

ABBREVIATIONS:

1PH	SINGLE-PHASE	G OR GND	GROUND OR GENERATOR	UTIL	UTILITY
2P	SINGLE POLE	GEN	GENERATOR		
2/C	TWO-CONDUCTOR			V	VOLT
3/C	THREE-CONDUCTOR	HOA	HAND-OFF-AUTOMATIC	VA	VOLT AMPERE
3PH	THREE-PHASE	HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
4/C	FOUR-CONDUCTOR	HZ	HERTZ		VOLTAGE
4W	FOUR-WIRE				
AC	ALTERNATING CURRENT OR ARMORED CABLE	IMC	INTERMEDIATE METAL CONDUIT		
AFF	ABOVE FINISHED FLOOR			W	WATT
AHJ	AUTHORITY HAVING JURISDICTION	J-BOX	JUNCTION BOX	WH	WATER HEATER
AIC	AMPERE INTERRUPTING CAPACITY			WP	WEATHERPROOF
ALT	ALTERNATE	kVA	KILOVOLT AMPERE		
AMB OR A	AMBIENT	kW	KILOWATT	XFMR	TRANSFORMER
AMP	AMPERE				
ATS	AUTOMATIC TRANSFER SWITCH	LRA	LOCKED ROTOR AMPS		
AUTO	AUTOMATIC				
BD	BOARD	MAX	MAXIMUM		
BLDG	BUILDING	MCA	MINIMUM CIRCUIT AMPS		
BRKR	BREAKER	MCB	MAIN CIRCUIT BREAKER		
		MDP	MAIN DISTRIBUTION PANEL		
		MECH	MECHANICAL		
C	CONDUIT	MIN	MINIMUM		
CAB	CABINET	MOC	MAXIMUM OVERCURRENT PROTECTION		
CAP	CAPACITY	MLO	MAIN LUGS ONLY		
CCR	CONTROL CONTACTOR	MT	MOUNT		
CD	CONSTRUCTION DOCUMENTS	MTG	MOUNTING		
CKT	CIRCUIT				
CKT BRKR	CIRCUIT BREAKER	NA	NOT APPLICABLE		
CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE		
COMM	COMMUNICATION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
CONC	CONCRETE				
CONT	CONTINUE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
CU	COPPER	NIC	NOT IN CONTRACT		
		NTS	NOT TO SCALE		
DEG C	DEGREES CELSIUS	PF	POWER FACTOR		
DEG F	DEGREES FAHRENHEIT	PH	PHASE		
DEMO	DEMOLITION	PNL	PANEL		
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE (PLASTIC)		
DN	DOWN				
DWG	DRAWING	REC	RECESSED		
		RGS	RIGID GALVANIZED STEEL		
EC	EMPTY CONDUIT	RM	ROOM		
ELEC	ELECTRIC OR ELECTRICAL	RMS	ROOT MEAN SQUARE		
EMT	ELECTRICAL METALLIC TUBING	REQD	REQUIRED		
EXIST	EXISTING				
		SF	SQUARE FOOT (FEET)		
FVNR	FULL VOLTAGE NON-REVERSING	SURF	SURFACE		
FVR	FULL VOLTAGE REVERSING	SW	SWITCH		
		SWBD	SWITCHBOARD		
		TEL	TELEPHONE		
		TB	TELEPHONE TERMINAL BOARD		
		TYP	TYPICAL		
		UL	UNDERWRITERS LABORATORY		
		UON	UNLESS OTHERWISE NOTED		

(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 PER SQ. FT.  
 L RATING AT 400°F - LESS THAN 1 CFM PER SQ. FT.



- 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:
  - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACE 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.
  - WALLBOARD, GYPSUM - 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 DIA. OF OPENING IS 26 IN. OC.
- THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN. OF 10 IN. (POINT CONTACT) TO MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
  - STEEL PIPE - NOM 2 1/2 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
  - IRON PIPE - NOM 2 1/2 IN. DIA. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIA. (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
  - CONDUIT - NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT OR NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
  - COPPER TUBING - NOM 6 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
  - COPPER PIPE - NOM 6 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - THROUGH PENETRATING PRODUCT\* - FLEXIBLE METAL PIPING. THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MA BE USED:
    - NOM 2 IN. DIA. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX, INC.
    - NOM 1 IN. DIA. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. TITEXFLEX CORP. A BUNDY CO.
    - NOM 1 IN. DIA. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG, INC.
- FILL, VOID OR CAVITY MATERIAL\* - CAULK OR SEALANT - MIN. 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN. 1/4 IN. DIA. BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. 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:
 

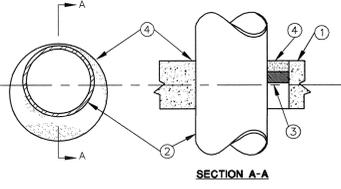
MAX PIPE OR CONDUIT DIA. IN.	F RATING, HR.	T RATING, HR.
1	1 OR 2	0+ 1 OR 2
1 1/2	3 OR 4	3 OR 4
2	1 OR 2	0
3	1 OR 2	0
4	1 OR 2	0
6	3 OR 4	0
12	1 OR 2	0

 \*WHEN COPPER PIPE IS USED, T RATING IS 0 HR.  
 3M COMPANY - TYPE CP 25WB+ OR FB-3000 WT

MAX PIPE OR CONDUIT DIA. IN.	F RATING, HR.	T RATING, HR.
1	1 OR 2	0+ 1 OR 2
1 1/2	3 OR 4	3 OR 4
2	1 OR 2	0
3	1 OR 2	0
4	1 OR 2	0
6	3 OR 4	0
12	1 OR 2	0

\*WHEN COPPER PIPE IS USED, T RATING IS 0 HR.  
 3M COMPANY - TYPE CP 25WB+ OR FB-3000 WT  
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OCTOBER 6, 2004  
 (FORMERLY SYSTEM NO. 49)  
 F RATING - 3 HR  
 T RATING - 0 HR  
 W RATING - CLASS 1 (SEE ITEM 4)



- FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIA. OF CIRCULAR THROUGH OPENING IS 32-1/2 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 12 IN. DIA. (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 IN. FROM TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
- THROUGH - PENETRATIONS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 1-3/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
  - STEEL PIPE - NOM 30 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
  - IRON PIPE - NOM 30 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - CONDUIT - NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT.
  - CONDUIT - NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
- PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF TIGHTLY-PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL-WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAX PIPE SIZE IS 10 IN. DIA. AND WHEN MAX ANNULAR SPACE IS 1 IN., A MIN 1 IN. THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OF MINERAL-WOOD BATT PACKING MATERIAL MAY BE RECESSED MIN 1/2 IN. FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF WALL.
- FILL, VOID OR CAVITY MATERIAL\* - CAULK - APPLIED TO FILL THE ANNULAR SPACE TO THE MIN THICKNESS SHOWN IN THE FOLLOWING TABLE:
 

MAX PIPE DIA. IN.	MAX ANNULAR SPACE IN.	PACKING MATERIAL TYPE (A)	MIN. CAULK THKNS IN.
10	1	BR, CF, GF OR MW	1/2 (B)
10	1	CF OR MW	1/2 (C)
30	2-1/2	BR, CF, GF OR MW	1 (B)

MAX PIPE DIA. IN.	MAX ANNULAR SPACE IN.	PACKING MATERIAL TYPE (A)	MIN. CAULK THKNS IN.
10	1	BR, CF, GF OR MW	1/2 (B)
10	1	CF OR MW	1/2 (C)
30	2-1/2	BR, CF, GF OR MW	1 (B)

- BR= POLYETHYLENE BACKER ROD.
  - CF= CERAMIC FIBER BLANKET.
  - GF= GLASS FIBER INSULATION.
  - MW= MINERAL-WOOL BATT.
- CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
  - CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF SOLID (NON-CONCRETE BLOCK) WALL.

3M COMPANY - TYPE CP 25WB+ OR FB-3000 WT  
 (NOTE - W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)

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F1 SYSTEM NO. C-AJ-1001  
 SCALE: NONE

F3 SYSTEM NO. W-L-1001  
 SCALE: NONE

REVISION NO.	REVISION DESCRIPTION	By	Date

Department of Veterans Affairs  
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Recommended Approvals:	
1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COR

Drawing Title <b>GENERAL NOTES, SYMBOLS AND LEGENDS</b>	Project Title <b>DESIGN BUILDING 7 AIR HANDLER UPGRADE - PROJECT A: 7-AHU107 &amp; 7-AHU108</b>	Date SEPT. 27, 2013
Checked gve	Building Number 7	Project Number 502-12-201
Reviewed DCJ	AutoCAD File Name	DRAWING No. <b>E001</b>
Const. Contract No.		

