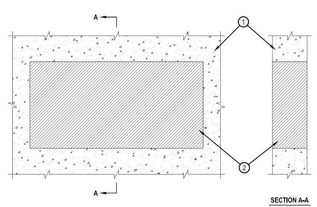
System No. W-J-0006
F Ratings – 1 and 2 Hr (See Items 1 and 2)
T Ratings – 1 and 2 Hr (See Item 2)

W-J-0006



SECTION A–A

1. **Wall Assembly** — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** **Max diam of opening is 8 in.**

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening to be as shown in the table below. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 1 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

C. Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

3. **Firestop System** — The hourly F and T Rating for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:

A. Steel Sleeve or Wire Mesh — No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of sleeve to be 1/4 to 1/2 in. less than overall thickness of wall such that, when installed in circular opening, the ends of the sleeve are recessed 1/8 to 1/4 in. from each surface of the wall. Sleeve may also be formed of min 0.034 in. thick (20 MSG) galvanized sheet steel.

B. Packing Material — Mineral wool batt insulation firmly packed into opening as a permanent form at the thickness shown in the table below. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material. As an option to the above, backer rod and/or foamed plastic backer material may be used.

C. Fill, Void or Cavity Material — Caulk* — Applied within the annulus, flush with both surfaces of wall as shown in the table below:

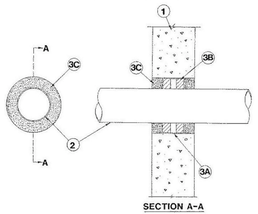
Pipe Type	Max Pipe Diam In.	Annular Space In.	Min Fuming or Mild Mil Depth In.	Type of Fill Mtl (a)	Min Fill Mtl Depth In.	F Rating Hr	T Rating Hr
2A	1	1	1-1/4		1-1/4	2	2
2B	4	1	1-1/4		1-1/4	2	1/4
2B	4	3/4 to 1	1/4	A	1/4	2	1/4
		1-1/2					
2C	4	3/4 to 1	1/2	A	1/2	2	1
		1-1/2					
2B	4	3/4 to 1	1	A	1	2	1/4
		1-1/2					
2B	4	1/2	1	B	1-1/4	2	1/4

RECTORSEAL — Metacaulk 950

RECTORSEAL — Metacaulk 835+

*Bearing the UL Classification Mark

System No. W-J-1007
November 26, 1997
(Formerly System No. 257)
F Rating — 2 Hr
T Ratings — 0, 1/4 and 2 Hr (See Item 3C)



SECTION A–A

1. **Wall Assembly** — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*. Max diam of opening is 8 in.**

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening is 0 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

C. Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

D. Copper Pipe — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. **Forms** (Not Shown) • Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, cut to fit the contour of the penetrating item and positioned as required to accommodate the required thickness of fill material. Forms may be removed after fill material has cured.

4. **Fill, Void or Cavity Material* • Firestop Mortar** — Min 2-1/2 in. thickness of fill material applied within the annulus, fill material is mixed at a ratio of 2.3 parts dry mix to one part water by weight in accordance with the manufacturer instructions supplied with fill material.

ARABIAN VERMICULITE INDUSTRIES • Type HSW.

*Bearing the UL Classification Marking

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INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION

Type of Construction / Project Activity Table

TYPE A	Inspection and Non-Invasive Activities Includes, but is not limited to: - removal of ceiling tiles for visual inspection limited to 1 tile to 50 square feet - painting (but not sanding), wall covering - electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection
TYPE B	Small scale, short duration activities which create minimal dust Includes, but is not limited to: - installation of telephone and computer cabling - access to chase spaces - cutting of walls or ceiling where dust migration can be controlled
TYPE C	Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies Includes, but is not limited to: - sanding of walls for painting or wall covering - removal of floor coverings, ceiling tiles and casework - new wall construction - minor duct work or electrical work above ceilings - major cabling activities - any activity which cannot be completed within a single work shift
TYPE D	Major demolition and construction projects Includes, but is not limited to: - activities which require consecutive work shifts - requires heavy demolition or removal of a complete ceiling system - new construction

Patient Risk Group Table

Group 1 Low Risk	Group 2 Medium Risk	Group 3 High Risk	Group 4 Highest Risk
- Office areas (non-clinical)	- Cardiology - Echocardiology - Endoscopy - GI - Physical Therapy - Radiology/MRI - Nuclear Medicine - Respiratory Care (except bronchoscopy area) - Cafeteria - Outpatient areas- clinics and offices (exception: transplant and oncology)	- Emergency Room - Post Anesthesia - Care Units - Labor and Delivery - Pediatrics - Admission/Discharge area - Laboratories - Pharmacy - Inpatient units (not otherwise specified) at all AEHN locations	- All Operating Rooms including Labor and Delivery - Anesthesia and Pump areas - Central Equipment/Sterile Supply - Cardiac Catherterization and - Angiography Areas - Interventional Radiology - Radiation Oncology - All Intensive Care Units - Newborn Nurseries, including NICU - Dialysis Unit - Oncology - inpatient & outpatient - Transplant - inpatient & outpatient - Pharmacy Admixture - Negative Pressure Isolation Rooms/areas (including bronchoscopy area)

Infection Control Matrix - Class of Precautions: Construction Project by Patient Risk

Construction Project Type				
Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group 1	I	II	II	III/IV
MEDIUM Risk Group 2	I	II	III	IV
HIGH Risk Group 3	I	III	III/IV	IV
HIGHEST Risk Group 4	III	III/IV	III/IV	IV

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

	During Construction Project	Upon Completion of Project
CL- I	1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace a ceiling tile displaced for visual inspection.	1. Wipe surfaces to remove dust.
CLASS II	1. Includes all activities required by Class I 2. Provide active means to prevent airborne dust from dispersing into atmosphere. 3. Water mist work surfaces to control dust while cutting. 4. Seal unused doors with dust tape. 5. Block off and seal air vents. 6. Replace adhesive walk-off mats at entrance and exit of work area. Replace used mats in accordance with manufacturer's recommendations. 7. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system.	1. Wipe work surfaces with disinfectant. 2. Contain construction waste before transport in tightly covered containers. 3. Wet mop and/or vacuum work area with HEPA filtered vacuum before leaving work areas. 4. Remove isolation of HVAC system in areas where work is being performed.
CLASS III	1. Includes all activities required by Class II 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system. 4. Complete all critical barriers before construction begins or implement control cube method. 5. Maintain negative air pressure within work site utilizing HEPA-equipped air filtration units. 6. Contain construction waste before transport in tightly covered containers. 7. Cover transport receptacles or carts. Tape covers. 8. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work areas. 9. Remove isolation of HVAC system in areas where work is being performed.	1. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 2. Contain construction waste before transport in tightly covered containers. 3. Cover transport receptacles or carts. Tape covering. 4. Vacuum work with HEPA-filtered vacuums. 5. Wet mop with disinfectant. 6. Remove isolation of HVAC system in areas where work is being performed.
CLASS IV	1. Includes all activities required by Class III 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Isolate HVAC system in areas where work is being done to prevent contamination of duct system. 4. Complete all critical barriers or implement control cube method before construction begins. 5. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 6. Seal holes, pipes, conduits, and punctures appropriately. 7. Construct anteroom and require all personnel to pass through this room so they can be vacuumed sing a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site. 8. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area. 9. Place adhesive walk-off mats at entrance to work area within anteroom. 10. Replace per manufacturer's recommendations. Do not remove barriers from work area until completed project is inspected each by the Hospital Safety Officer, Facilities Management Maintenance and Engineering Department and thoroughly cleaned by the Hospital Environmental Services Department or their contracted Environmental Service Company Contain construction waste before transport in tightly covered containers. 11. Cover transport receptacles or carts. Tape covering 12. Vacuum work area with HEPA filtered vacuums. 13. Wet mop with disinfectant after barriers are removed. 14. Remove isolation of HVAC system in areas where work is being performed.	1. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 2. Contain construction waste before transport in tightly covered containers 3. Cover transport receptacles or carts. Tape covering. 4. Vacuum work area with HEPA filtered vacuums. 5. Wet mop with disinfectant. 6. Remove or isolate HVAC system in areas where work was being performed.

THROUGH - PENETRATION FIRESTOP SYSTEMS

1. PENETRATION DETAILS WILL BE ACCEPTED PROVIDED THEY ARE LISTED IN THE UNDERWRITERS LABORATORIES BUILDING MATERIALS DIRECTORY UNDER "THROUGH-PENETRATION FIRE STOP SYSTEM (DEVICES)

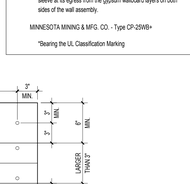
2. THE ABOVE U.L. DESIGN NUMBERS ARE PROVIDED FOR REFERENCE OF SYSTEMS DETAILS WHICH ARE ACCEPTABLE.

3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL WHICH SHOW CONFORMANCE TO THE UL LISTING TO THE ARCHITECT FOR REVIEW. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

4. FIRE RATED SLAB / WALL PENETRATION PROTECTION SYSTEMS SHALL BE AS MANUFACTURED BY USG THERMAFIBER, DOW-CORNING OR 3M COMPANY, HILTI

SYSTEM NO. WL1003

(Formerly System No. 147)
F Ratings - 1 and 2 Hr (See Items 3)
T Ratings - 0 Hr



SECTION A-A

SYSTEM NO. WL1003

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 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. lumber spaced 16 in. O.C. 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. O.C.

B. WALLBOARD, GYPSUM* - Nom. 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 15 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 or nom. 4 in. diam. (or smaller) Type L (or heavier) copper tubing. Steel pipes or conduits larger than nom. 4 in. diam. may only be used in walls constructed using steel channels 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 with width and to be rigidly supported on both sides of wall assembly.

3. FIRESTOP SYSTEM - Installed symmetrically on both sides of wall assembly. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR. WHEN INSTALLED IN A 1 HR. FIRE RATED WALL AND IS 2 HR. WHEN INSTALLED IN A 2 HR. FIRE RATED WALL. The details of the firestop system shall be as follows:

A. STEEL SLEEVE - Cylindrical sleeve fabricated from min. 0.019 in. thick (No. 28 gauge) galv. sheet steel and having a min. 2 in. lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 to 4 in. such that, when installed, the sleeve will project approximately 1/2 to 2 in. beyond the surface of the wall on both sides of the wall assembly. The diam. of the openings cut in the gypsum wallboard layers on each side of the wall assembly (concentric with pipe) to be 1 to 2-1/2 in. larger than outside diam. of pipe such that, when the steel sleeve is installed, an annular space of min 0 in. (point contact) to max 0.38 will be present between the steel sleeve and the pipe around the entire circumference of the pipe. Sleeve installed by coiling the sheet steel to a diam. smaller than the through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboard layers.

B. PACKING MATERIAL - Min. 1 in. thickness of mineral-wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent forms. Packing material to be recessed min 1/2 in. from end of steel sleeve (flush with or recessed into gypsum wallboard surface) on both sides of wall assembly.

B1. PACKING MATERIAL - (Not shown) - As an alternate to Item B, nom. 1 in. thick polyethylene backer rod may be used. The backer rod is to be recessed within the steel sleeve a min. of 1 in. from each surface of wall.

C. FILL,VOID, or CAVITY MATERIALS* - CAULK - When mineral wool batt insulation is used, applied to fill the steel sleeve to a min. depth of 1/2 in. on both sides of wall assembly. When backer rod is used, a min. thickness of 1 in. of CP 25wb+ caulk is required flush with surface of wall. A nom. 1/4 in. diam. continuous bead of caulk shall be applied around the circumference of the steel sleeve at its egress from the gypsum wallboard layers on both sides of the wall assembly.

MINNESOTA MINING & MFG. CO. - Type CP-25WB+

*Bearing the UL Classification Marking

GENERAL DEMOLITION NOTES

1. DEMOLITION IS INTENDED TO PREPARE THE BUILDING TO RECEIVE THE NEW WORK. THE INFORMATION PROVIDED IN NO WAY INTENDS TO MEAN THAT DEMOLITION IS LIMITED ONLY TO THOSE ITEMS SPECIFICALLY IDENTIFIED. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO EXECUTE DEMOLITION WORK AS REQUIRED TO ALLOW THE EXECUTION OF NEW WORK. REMOVE ALL EXISTING ITEMS OF CONSTRUCTION AND EQUIPMENT WITHIN THE PROJECT AREA, INDICATED ON DEMOLITION PLAN, WHETHER SHOWN OR NOT, INCLUDING, BUT NOT LIMITED TO FLOOR MATERIAL, BASE, WALLS, CEILINGS, DOORS, DOOR FRAMES, CASEWORK, ELECTRICAL, MECHANICAL, PLUMBING FIXTURES AND SYSTEM, AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. ANY EXISTING WORK TO REMAIN, IF DAMAGED BY ANY TRADE OR NEW CONSTRUCTION, SHALL BE PATCHED, REPAIRED OR REPLACED TO MATCH EXISTING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS REGARDING DEMOLITION AND ALTERATION PROCEDURES ALSO COMPLY WITH APPLICABLE CODES AND REGULATIONS.

2. ALL DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, PROJECTIONS, BOLTS, NAILS, ETC. FROM EXISTING SURFACES. PATCH ALL HOLES TO MATCH ADJACENT SURFACES OR PROVIDE NEW FINISHES PER FINISH PLAN.

3. ALL STRUCTURAL INTERFERENCE OR STRUCTURAL WALLS, BEAMS, JOIST, COLUMNS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT FOR DECISION. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE / CORING SHALL BE REVIEWED BY ARCHITECT.

4. REMOVE COMPLETELY ALL EXISTING FLOOR FINISHES AND ADHESIVE DOWN TO THE CONCRETE SLAB AS REQUIRED TO INSTALL NEW FLOOR FINISH. LEAVE FLOOR SMOOTH FOR NEW FINISH. OBSERVE MANUFACTURER'S REQUIREMENTS FOR SUB-FLOOR PREPARATION. TREATMENT OF EXISTING FLOOR FINISHES WITH AREAS OF DEMOLITION SHALL BE AS FOLLOWS:
   A. VINYL: REMOVE ENTIRELY AFTER MATERIAL HAS BEEN TESTED FOR ASBESTOS. REMOVE GLUE OR GROUT RESIDE. PATCH AS NECESSARY TO PROVIDE LEVEL SURFACE.
   B. CERAMIC TILE: REMOVE ENTIRELY. PATCH AND REPAIR FLOORS WITH A LATEX LEVELING COMPOUND TO PRODUCE A SMOOTH, LEVEL SURFACE TO RECEIVE NEW FINISHES.

5. REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK. PATCH AND REPAIR EXISTING CEILINGS TO MATCH EXISTING OR INSTALL ACCEPTABLE REPLACEMENT AS INDICATED ON THE REFLECTED CEILING PLAN AND/OR FINISH PLAN.

6. WHERE NEW CEILING ARE INDICATED, REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF AND NEW CEILINGS. PATCH AND REPAIR EXISTING WALL AS REQUIRED TO INSTALL NEW FINISHES.

7. REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DOCUMENTS FOR REQUIRED DEMOLITION WORK AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK, ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.

GENERAL LIFE SAFETY NOTES

1. EXISTING EXITS TO BE MAINTAINED DURING CONSTRUCTION. PROVIDE TEMPORARY PROTECTION AS REQUIRED TO MAINTAIN EGRESS AND SAFE PASSAGE FROM THE BUILDING.

2. PROVIDE HEPA EXHAUST FANS OPERATING TO KEEP SPACE WITHIN THE PROJECT AREA UNDER NEGATIVE PRESSURE AS LOCATIONS AND CONDITIONS DICTATE.

3. PROVIDE BARRIERS, TEMPORARY PARTITIONS TO PROTECT OCCUPANTS FROM PHYSICAL HAZARD AND NOISE OF ALL DEMOLITION WORK AND FOR INFECTION CONTROL.

DEMOLITION LEGEND

DENOTES AREAS OF SELECTIVE DEMOLITION AND/OR ALTERATION WORK.

REMOVE EXISTING WALL CONSTRUCTION IN THEIR ENTIRETY FROM FLOOR TO STRUCTURE ABOVE INCLUDING DOORS, DOOR FRAMES, VISION PANELS, TERRAZZO BASE, ASSOCIATED ELEC. / MECH. WORK ETC. (EXTENT SHOWN BY BROKEN LINES). PATCH EXISTING ADJACENT AREAS AS REQUIRED THAT HAS BEEN DISTURBED BY DEMOLITION AND PREPARE SURFACES TO RECEIVE NEW FINISHES.

REMOVE EXISTING DOOR OR VISION PANEL, GLAZING AND HOLLOW METAL FRAME ASSEMBLY. CLOSE EXISTING OPENING WITH METAL STUDS AT 16" O.C. WITH GYPSUM BOARD EACH SIDE. (REFER TO FLOOR PLAN FOR PARTITION TYPES). ALIGN NEW WORK FLUSH WITH EXISTING ADJACENT PARTITION. MATCH EXISTING WALL THICKNESS AND PREPARE SURFACE AS REQUIRED TO RECEIVE NEW SCHEDULED FINISH

PROVIDE OPENING IN EXISTING PARTITION AS REQUIRED TO RECEIVE NEW HOLLOW METAL DOOR FRAME OR VISION PANEL OF THE TYPE AND STYLE INDICATED ON THE DOOR SCHEDULE. PATCH AND PREPARE ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW SCHEDULED FINISH.

GENERAL CONTRACTOR RESPONSIBILITIES WITH REGARD TO EXISTING CONDITIONS NOTES

1. INFORMATION CONTAINED ON THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS OF CONSTRUCTION IS PROVIDED FOR THE CONVENIENCE OF THE GENERAL CONTRACTOR IN EXECUTING THE NEW WORK. EVERY ATTEMPT HAS BEEN MADE TO PROVIDE COMPLETE AND ACCURATE REPRESENTATION OF SUCH EXISTING CONDITIONS. THIS INTERPRETATION HAS BEEN TAKEN FROM DRAWINGS SUPPLIED BY OWNER AND HAS BEEN FURTHER SUPPLEMENTED WITH FIELD MEASUREMENTS AND OBSERVATIONS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY AND DOCUMENT ALL EXISTING DIMENSIONS, ELEVATIONS AND BENCHMARKS. MATERIALS AND METHODS OF CONSTRUCTION THAT MAY AFFECT OR BE AFFECTED BY NEW WORK, AND TO COORDINATE SUCH FIELD VERIFICATION WITH THE CONTRACT DOCUMENTS AND THE EXECUTION OF THE WORK. ANY DISCREPANCIES AND/OR CONFLICTS INVOLVING EXISTING CONDITIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

2. FIELD-VERIFICATION OF EXISTING CONDITIONS RELATED TO SPECIFIC PORTIONS OF THE WORK SHALL BE UNDERTAKEN IN ADVANCE TO ALLOW FOR THE TIMELY IDENTIFICATION OF EXISTING CONDITIONS THAT MAY AFFECT THE SCHEDULED INSTALLATION OF NEW WORK AS DESIGNED AND DETAILED, AND TO AVOID UNIQUE AND UNREASONABLE DELAYS TO THE PROJECT SHOULD SUCH CONDITIONS BE DISCOVERED. TIMELY IDENTIFICATION OF SUCH CONDITIONS SHALL PROVIDE FOR A MINIMUM PERIOD OF TEN (10) WORKING DAYS DURING WHICH TIME THE ARCHITECT WILL EVALUATE THE CONDITIONS AND MAKE RECOMMENDATIONS FOR ACCOMMODATING NEW WORK.

3. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER AND AFFECTED SUBCONTRACTORS SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A PROPOSAL. THE CONTRACTOR SHALL BECOME GENERALLY FAMILIAR WITH THE PROJECT, AND WITH THE IMPACT OF THE NEW WORK ON THE EXISTING CONDITIONS. THE INFORMATION CONTAINED IN THESE DRAWINGS, WITH REGARD TO THE EXISTING CONDITIONS OF CONSTRUCTION IN NO WAY RELEASES THE GENERAL CONTRACTOR FROM THE RESPONSIBILITY FOR VERIFYING COMPLETELY ALL FIELD CONDITIONS RELATING TO AND AFFECTING THE EXECUTION OF THE WORK, AS DESCRIBED IN THESE CONTRACT DOCUMENTS. ANY AREAS OF CONCERN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL. NO ADDITIONAL CHARGE TO THE OWNER WILL BE APPROVED WHICH IS ATTRIBUTABLE TO THE CONTRACTOR'S FAILURE TO DO THIS.

4. THE AREAS ADJACENT TO THE PROJECT ARE CURRENTLY OCCUPIED, AND MUST REMAIN COMPLETELY OPERATIONAL DURING THEIR NORMAL BUSINESS HOURS. COORDINATE WITH THE OWNER ANY CONSTRUCTION ACTIVITIES WHICH MAY IMPEDE THEIR NORMAL OPERATIONS, INCLUDING ANY ACTIVITY WHICH CREATES EXCESSIVE NOISE. NOTIFY ANY OCCUPANTS OF THE BUILDING OF ANY CONSTRUCTION ACTIVITIES WHICH MAY AFFECT THEIR ABILITY TO OPERATE NORMALLY.

5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IDENTIFY POINTS OF ACCESS TO THE BUILDING AND TO VERIFY MINIMUM CLEARANCES AVAILABLE FOR USE IN TRANSPORTING NECESSARY CONSTRUCTION MACHINERY, EQUIPMENT, MATERIALS, AND COMPONENTS INTO THE BUILDING. USE OF SUCH POINTS OF ACCESS SHALL BE APPROVED BY THE OWNER.

6. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER TO IDENTIFY EXISTING COMPONENTS AND ASSEMBLIES WITHIN THE BUILDING THAT ARE CONSTRUCTED AS FIRE-RATED ASSEMBLIES. NOTE ANY DISCREPANCIES AND/OR CONFLICTS INVOLVING EXISTING CONDITIONS AND BRING THEM TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

7. CONTRACTOR TO MAINTAIN ALL MEANS OF EGRESS FOR DURATION OF CONSTRUCTION. WORK INCLUDES CONSTRUCTION OF FIRE RATED, DUST PROOF TEMPORARY PARTITIONS, AND COVERED WALKS TO PUBLIC WAY AS REQUIRED BY REGULATIONS AND BUILDING CODES.

8. CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE BUILDING IN A WEATHER TIGHT CONDITION.

9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OWNER OCCUPIED AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED AND IS RESPONSIBLE FOR DAMAGE CAUSED BY CONTRACTOR'S/SUB CONTRACTOR, OR ADVERSE WEATHER CONDITIONS, INCLUDING RAIN AND WIND.

VA GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE PERFORMED, MONDAY THRU FRIDAY, DURING NORMAL BUSINESS HOURS OF 7:00 AM - 4:30 PM, EXCEPT SATURDAY, SUNDAY AND HOLIDAYS, EXCEPT AS APPROVED BY THE CONSTRUCTION OFFICER TECHNICAL REPRESENTATIVE (COTR) AND PROVIDED FOR IN THE SPECIFICATIONS THE GENERAL CONTRACTOR SHALL BE REQUIRED TO WORK PRIME TIME AND OVERTIME TO COMPLETE OR CONSTRUCT PORTIONS OF THIS WORK. THIS SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER AT NO ADDITIONAL COST TO THE GOVERNMENT.

2. GENERAL CONTRACTOR SHALL ABIDE BY THEIR OWN EXPENSE TO THE LATEST EDITIONS OF ALL OSHA REGULATIONS AND REQUIREMENTS.

3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND ASCERTAIN IN THE FIELD, ALL EXISTING UTILITIES, EXISTING CONDITIONS, FIELD MEASUREMENTS, DIMENSIONS, QUANTITIES, RELATED TO THE PROJECT.

4. IT IS RECOMMENDED THAT THE GENERAL CONTRACTOR PERFORM A DOCUMENTED SITE VISIT PRIOR TO BID.

5. GENERAL CONTRACTOR SHALL SUBMIT FOR APPROVAL ALL MATERIALS USED FOR CONSTRUCTION AND ALL EQUIPMENT INTENDED FOR INSTALLATION IN THIS PROJECT.

6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND ASCERTAIN THE LOCATION, DEPTH, DIRECTION, SIZE OF ANY AND ALL UTILITIES EXISTING IN THE GENERAL VICINITY OF THE WORK AREA. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITY DISRUPTED, BROKEN, OR OTHERWISE RENDERED NON-FUNCTIONABLE DUE TO THE WORK PERFORMED AT NO ADDITIONAL COST TO THE VETERANS AFFAIRS DURING THIS COURSE OF WORK. THE GENERAL CONTRACTOR SHALL IDENTIFY ANY NON-FUNCTIONING UTILITY/SYSTEM, PRIOR TO THE START OF WORK TO THE COTR. IDENTIFICATION OF SUCH AFTER THE START OF WORK SHALL BE DEEMED AS DISTURBED/DAMAGED BY THE GENERAL CONTRACTOR AND SHALL BE REPAIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR.

7. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY SUPPORT ANY UTILITY ENCOUNTERED IN THE COURSE OF THIS WORK.

8. THE GENERAL CONTRACTOR SHALL LEAVE THE WORK SITE CLEAN AND SECURED AT THE END OF EACH WORKING DAY. THE WORK SITE SHALL NOT BE LEFT UNATTENDED AT ANY TIME BY THE GENERAL CONTRACTOR, UNLESS THE WORK AREA IS PROPERLY SECURED BY THE GENERAL CONTRACTOR.

9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR THE COST OF ALL INSPECTIONS AND TESTS REQUIRED TO IMPLEMENT THE DOCUMENTS OR AS REQUIRED BY ANY GOVERNMENTAL AGENCY.

10. THERE SHALL BE NO CLAIMS AGAINST THE DEPARTMENT OF VETERANS AFFAIRS FOR WORK STOPPAGES DUE TO ACTS OF GOD, WEATHER CONDITIONS, STOP WORK ORDERS (VERBAL AND/OR WRITTEN), UNDERESTIMATION OF WORK, ESTIMATED QUANTITIES, MATERIALS, SUPPLIES, TOOLS, CORRECTION OF SAFETY PROBLEMS, OR ANY OTHER REASON.

11. AT THE COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL PROVIDE TO THE DEPARTMENT OF VETERANS AFFAIRS AN "AS BUILT DRAWING" FOR THE WORK. THIS DRAWING SHALL BE SUBMITTED ON MYLAR REPRODUCABLE, 30" BY 42", COMPLETE WITH 2 COPIES. THIS DRAWING SHALL BE TECHNICALLY CORRECT AND DRAWN ACCORDING TO SOUND ENGINEERING PRINCIPLES. THIS SHALL SHOW ALL ELEVATIONS, DISTANCES, DIAMETERS, SCHEDULES, MATERIALS INSTALLED, SEQUENCE OF OPERATIONS OF ANY AND ALL ITEMS TO THE DEPARTMENT OF VETERANS AFFAIRS. GENERAL CONTRACTOR IS ADVISED THAT THEY ARE RESPONSIBLE TO MAINTAIN ALL MEASUREMENTS DURING THE COURSE OF THIS PROJECT AND DIMENSIONS MISSING ON THE MYLAR SHALL NOT BE ACCEPTABLE. FINAL PAYMENT SHALL NOT BE PROVIDED UNTIL THIS DRAWING IS SUBMITTED AND APPROVED. A COMPLETE, ACCEPTABLE, SEPARATE, ENGINEERING "AS CONSTRUCTED DRAWING" IS REQUIRED FOR EACH UTILITY.

12. GENERAL CONTRACTOR SHALL SAW CUT WITH PROPER BLADE ANY CONCRETE ENCOUNTERED IN THE COURSE OF THIS WORK. ALL HOLES SHALL BE CORED DRILLED WITH DIAMOND CORE BITS. THE USE OF JACK HAMMERS IS PROHIBITED.

13. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY AND ALL DEBRIS FROM THE MEDICAL CENTER DAILY AND DISPOSE OF SAME OFF THE BASE IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS.

14. ALL WORK SHALL BE PERFORMED BY THOSE WHO ARE SKILLED IN THEIR TRAD