



Department of Veterans Affairs  
Northern Indiana Healthcare System  
New Signage & Wayfinding  
for Medical Center  
2121 Lake Avenue  
Fort Wayne, Indiana

VA Project Number: 610A4-11-106

Project Manual

December 19, 2014

**DEPARTMENT OF VETERANS AFFAIRS  
VHA MASTER SPECIFICATIONS**

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**SECTION 00 01 15**  
**LIST OF DRAWING SHEETS**

The drawings listed below accompanying this specification form a part of the  
contract.

<u>Drawing No.</u>	<u>Title</u>
<b>ARCHITECTURAL</b>	
<b>VOLUME 1 BUILDING 1 SIGNAGE</b>	
<b>GENERAL INFORMATION</b>	
G-1	VOLUME 1 - BUILDING 1 - COVER SHEET
G-1.1	VOLUME 1 - BUILDING 1 - METHODOLOGY & SHEET INDEX
G-1.2	VOLUME 1 - BUILDING 1 - SHEET INDEX
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<b>NEW SIGNAGE</b>	
L-2	NEW INTERIOR ROOM SIGNAGE LEGEND
L-2.1	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
L-2.2	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
L-2.3	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
L-2.4	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
L-2.5	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
L-2.6	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
L-2.7	NEW INTERIOR ROOM SIGNAGE CUT SHEETS
<b>0 - BASEMENT FLOOR AREA A</b>	
X 1-0A	BUILDING 1 - BASEMENT FLOOR AREA A - EXISTING/REMOVAL
X 1-0A.1	BUILDING 1 - BASEMENT FLOOR AREA A - EXISTING RM SIGNAGE LEGEND
X 1-0A.2	BUILDING 1 - BASEMENT FLOOR AREA A - EXISTING SPECIALITY SIGNAGE LEGEND
1-0A	BUILDING 1 - BASEMENT FLOOR AREA A
1-0A.1	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE
1-0A.2	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.3	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.4	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.5	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.6	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-0A.7	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.8	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.9	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.10	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.11	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.12	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.13	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.14	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.15	BUILDING 1 - BASEMENT FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-0A.16	CODE & LIFE SAFETY SIGNS - STAIRWELL GUIDE

#### **0 - BASEMENT FLOOR AREA B**

X 1-0B	BUILDING 1 - BASEMENT FLOOR AREA B - EXISTING/REMOVAL
X 1-0B.1	BUILDING 1 - BASEMENT FLOOR AREA B - EXISTING ROOM SIGNAGE LEGEND
X 1-0B.2	BUILDING 1 - BASEMENT FLOOR AREA B - EXISTING SPECIALITY SIGNAGE LEGEND
1-0B	BUILDING 1 - BASEMENT FLOOR AREA B
1-0B.1	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE
1-0B.2	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.3	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.4	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.5	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.6	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.7	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.8	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.9	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.10	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS

1-0B.11	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.12	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.13	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.14	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.15	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.16	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.17	BUILDING 1 - BASEMENT FLOOR AREA B ROOM ROOM SIGNAGE CUT SHEETS
1-0B.18	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.19	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.20	BUILDING 1 - BASEMENT FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-0B.21	CODE & LIFE SAFETY SIGNS - STAIRWELL GUIDE

#### **0 - BASEMENT FLOOR AREA C&D**

X 1-0C&D	BUILDING 1 - BASEMENT FLOOR AREA C&D - EXISTING/REMOVAL
X 1-0CD.1	BUILDING 1 - BASEMENT FLOOR AREA C&D - EXISTING ROOM SIGNAGE LEGEND
X 1-0CD.2	BUILDING 1 - BASEMENT FLOOR AREA C&D - EXISTING ROOM SIGNAGE LEGEND
1-0C&D	BUILDING 1 - BASEMENT FLOOR AREA C&D
1-0C&D.1	BUILDING 1 - BASEMENT FLOOR AREA C&D ROOM SIGNAGE
1-0C&D.2	BUILDING 1 - BASEMENT FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-0C&D.3	BUILDING 1 - BASEMENT FLOOR AREA C&D ROOM SIGNAGE CUT SHEET
1-0C&D.4	BUILDING 1 - BASEMENT FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-0C&D.5	BUILDING 1 - BASEMENT FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS

#### **1 - FIRST FLOOR AREA A**

1-1A	BUILDING 1 - FIRST FLOOR AREA A (NO WORK IN THIS AREA)
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**1 - FIRST FLOOR AREA B**

X 1-1B	BUILDING 1 - FIRST FLOOR AREA B - EXISTING/REMOVAL
X 1-1B.1	BUILDING 1 - FIRST FLOOR AREA B - EXISTING ROOM SIGNAGE LEGEND
X 1-1B.2	BUILDING 1 - FIRST FLOOR AREA B - EXISTING SPECIALITY SIGNAGE LEGEND
1-1B	BUILDING 1 - FIRST FLOOR AREA B
1-1B.1	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE
1-1B.2	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.3	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.4	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.5	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.6	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.7	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.8	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.9	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.10	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.11	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.12	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.13	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.14	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.15	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.16	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.17	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.18	BUILDING 1 - FIRST FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-1B.19	CODE & SAFETY SIGNS - STAIRWELL GUIDE
1-1B.20C	BUILDING 1 - FIRST FLOOR AREA B CEILING SIGNAGE - REMOVAL & NEW

1-1B.21C BUILDING 1 - FIRST FLOOR AREA B CEILING SIGNAGE -  
REMOVAL & NEW

# **1 - FIRST FLOOR AREA C**

X 1-1C BUILDING 1 - FIRST FLOOR AREA C - EXISTING/REMOVAL

X 1-1C.1 BUILDING 1 - FIRST FLOOR AREA C - EXISTING ROOM  
SIGNAGE LEGEND

X 1-1C.2 BUILDING 1- FIRST FLOOR AREA C - EXISTING SPECIALITY  
SIGNAGE LEGEND

1-1C BUILDING 1 - FIRST FLOOR AREA C

1-1C.1 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE

1-1C.2 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.3 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.4 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.5 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.6 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.7 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.8 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.9 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.10 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.11 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.12 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.13 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.14 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.15 BUILDING 1 - FIRST FLOOR AREA C ROOM SIGNAGE CUT  
SHEETS

1-1C.16C BUILDING 1 - FIRST FLOOR AREA C CEILING SIGNAGE -  
REMOVAL & NEW

1-1C.17C BUILDING 1 - FIRST FLOOR AREA C CEILING SIGNAGE CUT  
SHEETS

1-1C.18C BUILDING 1 - FIRST FLOOR AREA C CEILING SIGNAGE CUT  
SHEETS

1-1C.19C BUILDING 1 - FIRST FLOOR AREA C CEILING SIGNAGE CUT  
SHEETS

**1 - FIRST FLOOR AREA D**

X 1-1D	BUILDING 1 - FIRST FLOOR AREA D - EXISTING/REMOVAL
X 1-1D.1	BUILDING 1 - FIRST FLOOR AREA D - EXISTING ROOM SIGNAGE LEGEND
X 1-1D.2	BUILDING 1 - FIRST FLOOR AREA D - EXISTING SPECIALITY SIGNAGE LEGEND
1-1D	BUILDING 1 - FIRST FLOOR AREA D
1-1D.1	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE
1-1D.2	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.3	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.4	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.5	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.6	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.7	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.8	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.9	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.10	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.11	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.12	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.13	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.14	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.15	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.16	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.17	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.18	BUILDING 1 - FIRST FLOOR AREA D ROOM SIGNAGE CUT SHEETS
1-1D.19	CODE & SAFETY SIGNS - STAIRWELL GUIDE
1-1D.20C	BUILDING 1 - FIRST FLOOR AREA D CEILING SIGNAGE - REMOVAL & NEW



1-1D.21C BUILDING 1 - FIRST FLOOR AREA D CEILING SIGNAGE CUT SHEETS

## **2 - SECOND FLOOR AREA A**

X 1-2A BUILDING 1 - SECOND FLOOR AREA A - EXISTING/REMOVAL

X 1-2A.1 BUILDING 1 - SECOND FLOOR AREA A - EXISTING ROOM SIGNAGE LEGEND

X 1-2A.2 BUILDING 1 - SECOND FLOOR AREA A - EXISTING SPECIALTY SIGNAGE LEGEND

1-2A BUILDING 1 - SECOND FLOOR AREA A

1-2A.1 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE

1-2A.2 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.3 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.4 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.5 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.6 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.7 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.8 BUILDING 1 - SECOND FLOOR AREA A - ROOM SIGNAGE CUT SHEETS

1-2A.9 BUILDING 1 - SECOND FLOOR AREA A - ROOM SIGNAGE CUT SHEETS

1-2A.10 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.11 BUILDING 1 - SECOND FLOOR AREA A - ROOM SIGNAGE CUT SHEETS

1-2A.12 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.13 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.14 BUILDING 1 - SECOND FLOOR AREA A ROOM SIGNAGE CUT SHEETS

1-2A.15 CODE & SAFETY SIGNS - STAIRWELL GUIDE

1-2A.16C BUILDING 1 - SECOND FLOOR AREA A CEILING SIGNAGE - REMOVAL & NEW

1-2A.17C BUILDING 1 - SECOND FLOOR AREA A CEILING SIGNAGE CUT SHEETS

## **2 - SECOND FLOOR AREA B**

X 1-2B BUILDING 1 - SECOND FLOOR AREA B - EXISTING/REMOVAL

X 1-2B.1	BUILDING 1 - SECOND FLOOR AREA B - EXISTING ROOM SIGNAGE LEGEND
X 1-2B.2	BUILDING 1- SECOND FLOOR AREA B - EXISTING SPECIALTY SIGNAGE LEGEND
1-2B	BUILDING 1 - SECOND FLOOR AREA B
1-2B.1	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE
1-2B.2	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.3	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.4	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.5	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.6	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.7	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.8	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.9	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.10	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.11	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.12	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.13	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.14	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.15	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.16	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.17	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.18	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.19	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.20	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.21	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS

1-2B.22	BUILDING 1 - SECOND FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-2B.23	CODE & SAFETY SIGNS - STAIRWELL GUIDE
1-2B.24C	BUILDING 1 - SECOND FLOOR AREA B CEILING SIGNAGE - REMOVAL & NEW
1-2B.25C	BUILDING 1 - SECOND FLOOR AREA B CEILING SIGNAGE CUT SHEETS
1-2B.26C	BUILDING 1 - SECOND FLOOR AREA B CEILING SIGNAGE CUT SHEETS

## 2 - SECOND FLOOR AREA C&D

X 1-2C&D	BUILDING 1 - SECOND FLOOR AREA C&D - EXISTING/REMOVAL
X 1-2CD.1	BUILDING 1 - SECOND FLOOR AREA C & D - EXISTING ROOM SIGNAGE LEGEND
X 1-2CD.2	BUILDING 1 - SECOND FLOOR AREA C&D - EXISTING SPECIALTY SIGNAGE LEGEND
1-2C&D	BUILDING 1 - SECOND FLOOR AREA C&D
1-2C&D.1	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE
1-2C&D.2	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.3	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.4	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.5	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.6	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.7	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.8	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.9	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.10	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.11	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.12	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.13	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.14	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-2C&D.15	BUILDING 1 - SECOND FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS

1-2C&D.16	CODE & SAFETY SIGNS - STAIRWELL GUIDE
1-2C&D.17C	BUILDING 1 - SECOND FLOOR AREA B CEILING SIGNAGE - REMOVAL & NEW
<b>3 - THIRD FLOOR AREA A</b>	
X 1-3A	BUILDING 1 - THIRD FLOOR AREA A - EXISTING/REMOVAL
X 1-3A.1	BUILDING 1 - THIRD FLOOR AREA A - EXISTING ROOM SIGNAGE LEGEND
X 1-3A.2	BUILDING 1 - THIRD FLOOR AREA A - EXISTING SPECIALTY SIGNAGE LEGEND
1-3A	BUILDING 1 - THIRD FLOOR AREA A
1-3A.1	BUILDING 1 - THIRD FLOOR AREA A SIGNAGE
1-3A.2	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.3	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.4	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.5	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.6	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.7	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.8	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.9	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.10	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.11	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.12	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.13	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.14	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.15	BUILDING 1 - THIRD FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-3A.16	CODE & SAFETY SIGNS - STAIRWELL GUIDE
1-3A.17C	BUILDING 1 - THIRD FLOOR AREA A CEILING SIGNAGE - REMOVAL & NEW
1-3A.18C	BUILDING 1 - THIRD FLOOR AREA A CEILING SIGNAGE CUT SHEETS

1-3A.19C BUILDING 1 - THIRD FLOOR AREA A CEILING SIGNAGE CUT SHEETS

### **3 - THIRD FLOOR AREA B**

X 1-3B	BUILDING 1 - THIRD FLOOR AREA B - EXISTING/REMOVAL
X 1-3B.1	BUILDING 1 - THIRD FLOOR AREA B - EXISTING ROOM SIGNAGE LEGEND
X 1-3B.2	BUILDING 1- THIRD FLOOR AREA B - EXISTING SPECIALTY SIGNAGE LEGEND
1-3B	BUILDING 1 - THIRD FLOOR AREA B
1-3B.1	BUILDING 1 - THIRD FLOOR AREA B SIGNAGE
1-3B.2	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.3	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.4	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.5	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.6	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.7	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.8	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.9	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.10	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.11	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.12	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
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1-3B.15	BULIDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.16	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.17	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-3B.18	BUILDING 1 - THIRD FLOOR AREA B ROOM SIGNAGE CUT SHEETS
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1-3B.23C	BUILDING 1 - THIRD FLOOR AREA B CEILING SIGNAGE - REMOVAL & NEW
1-3B.24C	BUILDING 1 - THIRD FLOOR AREA B CEILING SIGNAGE CUT SHEETS

### **3 - THIRD FLOOR AREA C&D**

X 1-3C&D	BUILDING 1 - THIRD FLOOR AREA C&D - EXISTING/REMOVAL
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X 1-3CD.2	BUILDING 1 - THIRD FLOOR AREA C&D - EXISTING SPECIALTY SIGNAGE LEGEND
1-3C&D	BUILDING 1 - THIRD FLOOR AREA C&D
1-3C&D.1	BUILDING 1 - THIRD FLOOR AREA C & D SIGNAGE
1-3C&D.2	BUILDING 1 - THIRD FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
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1-3C&D.4	BUILDING 1 - THIRD FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
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1-3C&D.9	BUILDING 1 - THIRD FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-3CD.10	BUILDING 1 - THIRD FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-3CD.11	BUILDING 1 - THIRD FLOOR AREA C&D ROOM SIGNAGE CUT SHEETS
1-3CD.12	BUILDING 1 - CODE & SAFETY SIGNS - STAIRWELL GUIDE

### **4 - FOURTH FLOOR AREA A**

X 1-4A	BUILDING 1 - FOURTH FLOOR AREA A - EXISTING/REMOVAL
X 1-4A.1	BUILDING 1-FOURTH FLOOR AREA A EXISTING ROOM SIGNAGE LEGEND

X 1-4A.2	BUILDING 1 - FOURTH FLOOR AREA A - EXISTING SPECIALTY SIGNAGE LEGEND
1-4A	BUILDING 1 - FOURTH FLOOR AREA A
1-4A.1	BUILDING 1 - FOURTH FLOOR AREA A SIGNAGE
1-4A.2	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.3	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.4	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.5	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.6	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.7	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.8	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.9	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.10	BUILDING 1 - FOURTH FLOOR AREA A - ROOM SIGNAGE CUT SHEETS
1-4A.11	BUILDING 1 - FOURTH FLOOR AREA A - ROOM SIGNAGE CUT SHEETS
1-4A.12	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.13	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.14	BUILDING 1 - FOURTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-4A.15	CODE & SAFETY SIGNS - STAIRWELL GUIDE
1-4A.16C	BUILDING 1 - FOURTH FLOOR AREA A CEILING SIGNAGE - REMOVAL & NEW

#### **4 - FOURTH FLOOR AREA B**

X 1-4B	BUILDING 1 - FOURTH FLOOR AREA B - EXISTING/REMOVAL
X 1-4B.1	BUILDING 1 - FOURTH FLOOR AREA B - EXISTING ROOM SIGNAGE LEGEND
X 1-4B.2	BUILDING 1 - FOURTH FLOOR AREA B - EXISTING SPECIALTY SIGNAGE LEGEND
1-4B	BUILDING 1 - FOURTH FLOOR AREA B
1-4B.1	BUILDING 1 - FOURTH FLOOR AREA B SIGNAGE
1-4B.2	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-4B.3	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS

1-4B.4	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-4B.5	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-4B.6	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
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1-4B.9	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
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1-4B.11	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
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1-4B.19	BUILDING 1 - FOURTH FLOOR AREA B ROOM SIGNAGE CUT SHEETS
1-4B.20	CODE & SAFETY SIGNS - STAIRWELL GUIDE
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1-4B.22C	BUILDING 1 - FOURTH FLOOR AREA B CEILING SIGNAGE CUT SHEETS

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X 1-5A	BUILDING 1 - FIFTH FLOOR AREA A EXISTING/REMOVAL
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X 1-5A.2	BUILDING 1 - FIFTH FLOOR AREA A EXISTING SPECIALTY SIGNAGE LEGEND
1-5A	BUILDING 1 - FIFTH FLOOR AREA A
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1-5A.2	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
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1-5A.4	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
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1-5A.8	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-5A.9	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAG CUT SHEETS
1-5A.10	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-5A.11	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-5A.12	BUILDING 1 - FIFTH FLOOR AREA A ROOM SIGNAGE CUT SHEETS
1-5A.13	CODE & SAFETY SIGNS - STAIRWELL GUIDE

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X 1-5B	BUILDING 1 - FIFTH FLOOR AREA B - EXISTING/REMOVAL
X 1-5B.1	BUILDING 1 - FIFTH FLOOR AREA B - EXISTING ROOM SIGNAGE LEGEND
X 1-5B.2	BUILDING 1 - FIFTH FLOOR AREA B - EXISTING SPECIALTY SIGNAGE LEGEND
1-5B	BUILDING 1 - FIFTH FLOOR AREA B
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1-5B.22C	BUILDING 1- FIFTH FLOOR AREA B CEILING SIGNAGE CUT SHEETS

#### **VOLUME 2 BUILDINGS 2,3,4,5,6,7 & 17 SIGNAGE**

G-2-17	VOLUME 2 - BUILDINGS 2,3,4,5,6,7 & 17 COVER SHEET
G-2-17.1	VOLUME 2 - BUILDINGS 2,3,4,5,6,7 & 17 METHODOLOGY & INDEX SHEET
G-2-17.2	VOLUME 2 - BUILDINGS 2,3,4,5,6,7 & 17 SITE PLAN

#### **BUILDING 2**

X 2-1	BUILDING 2 - SECOND FLOOR - EXISTING/REMOVAL
2-2	BUILDING 2 - SECOND FLOOR
2-2.1	BUILDING 2 - SIGNAGE CUT SHEETS

#### **BUILDING 3**

X 3-1	BUILDING 3 - LEVEL 1 - EXISTING/REMOVAL
X 3-2	BUILDING 3 - EXISTING ROOM SIGNAGE LEGEND

X 3-3	BUILDING 3 - EXISTING SPECIALTY SIGNAGE LEGEND
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3-1.5	BUILDING 3 - SIGNAGE CUT SHEETS
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X 4-1	BUILDING 4 - EXISTING/REMOVAL
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4-1	BUILDING 4 - NEW SIGNAGE
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5-1.4	BUILDING 5 - SIGNAGE CUT SHEETS
5-1.5	BUILDING 5 - SIGNAGE CUT SHEETS
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**BUILDING 6**

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7-1.6	BUILDING 7 - SIGNAGE CUT SHEETS
7-1.7	BUILDING 7 - SIGNAGE CUT SHEETS

#### **BUILDING 17**

17-1	BUILDING 17 - EXISTING/NEW SIGNAGE
17-1.1	BUILDING 17 - SIGNAGE CUT SHEETS

#### **Volume 3 Site Signage**

G-S	VOLUME 3 - SITE SIGNAGE COVER SHEET/INDEX SHEET
G-S-1	VOLUME 3 - SITE SIGNAGE METHODOLOGY & SHEET INDEX
XS-1.1	SITE PLAN SOUTH SECTION EXISTING/REMOVAL
XS-1.2	EXISTING SIGNAGE IMAGES
XS-1.3	SITE PLAN NORTH SECTION EXISTING/REMOVAL
XS-1.4	EXISTING SIGNAGE IMAGES
S-1.1	SITE PLAN SOUTH SECTION
S-1.2	SITE PLAN NORTH SECTION
S-1.3	SITE PLAN SIGNAGE CUT SHEETS
S-1.4	SITE PLAN SIGNAGE CUT SHEETS
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S-1.8	SITE PLAN SIGNAGE CUT SHEETS
S-1.9	SITE PLAN SIGNAGE CUT SHEETS
S-1.10	SITE PLAN SIGNAGE CUT SHEETS
S-1.11	SITE PLAN SIGNAGE CUT SHEETS
S-1.12	SITE PLAN SIGNAGE CUT SHEETS
S-1.13	SITE PLAN SIGNAGE CUT SHEETS
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S-1.15	SITE PLAN SIGNAGE CUT SHEETS
S-1.16	SITE PLAN SIGNAGE INSTALLATION CUT SHEETS
S-1.17	SITE PLAN SIGNAGE INSTALLATION CUT SHEETS
S-2	EXTERIOR SIGNAGE
S-2.1	EXTERIOR SIGNAGE

- - - END - - -

SECTION 01 00 00  
GENERAL REQUIREMENTS

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**SECTION 01 00 00**  
**GENERAL REQUIREMENTS**

**1.1 GENERAL INTENTION**

- A. Contractor shall completely prepare site for building operations, including demolition and removal of existing interior and exterior signs, and furnish labor, materials, supervision and equipment to perform work for 610A4-11-106 New Signage and Wayfinding for Medical Center as required by drawings and specifications. Contractor shall work during normal business hours in occupied areas, including areas of patient care. Contractor shall not interrupt VA operations and patient care. Contractor shall coordinate the removal of existing signage, placement of temporary signage, installation of new signage, phasing and sequencing with the COR. Contractor shall provide a schedule for work to the COR for review and approval prior to commencement of work.
- B. Visits to the site by Bidders shall be in accordance with the Site Visit provision (52.236-27) of the solicitation.
- C. Offices of URS Corporation, as Architect-Engineers, shall render certain technical services during construction. Such services shall be considered as advisory to the Government and shall not be construed as expressing or implying a contractual act of the Government without affirmations by Contracting Officer or his duly authorized representative.
- D. All employees of general contractor and subcontractors shall comply with VA security management program and obtain permission of the VA police, be identified by project and employer, and restricted from unauthorized access.
- E. Prior to commencing work, general contractor shall provide proof that a OSHA designated "competent person", who has completed the 30-hour OSHA Safety course, (CP) (29 CFR 1926.20(b)(2)) shall maintain a presence at the work site whenever the general or subcontractors are present.
- F. Training:
  - 1. All employees of general contractor or subcontractors shall have the 10-hour OSHA Construction Safety course and other relevant competency training, as determined by COR acting as the Construction Safety Officer with input from the facility Construction Safety Committee.

2. Submit training records of all such employees for approval before the start of work.

G. The VA Signage Design Guide is available online at the Office of Construction & Facilities Management Technical Library (TIL).  
<http://www.cfm.va.gov/til/spclRqmts.asp#SIGN>.

**1.2 STATEMENT OF BID ITEM(S)**

A. BID ITEM I, GENERAL CONSTRUCTION: Furnish all labor, materials, equipment, tools, supervision, and all other necessary resources to perform Project 610A4-11-106 - Removal and installation of new signage and wayfinding items for Medical Center Fort Wayne, IN, as required by the drawings and specifications. Work includes removal, general construction, alterations, interior and exterior signage and site signage, and related electrical work. Patching and repair of any substrates where signage is removed including patching and repair of any landscaping material disturbed by removal of signage.

**Completion Time: 270 calendar days after receipt of Notice to Proceed.**



### **1.3 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR**

- A. AFTER AWARD OF CONTRACT, 0 sets of specifications and drawings shall be furnished. Drawings and specifications shall be available to bidders via the solicitation posting on FBO.

### **1.4 CONSTRUCTION SECURITY REQUIREMENTS**

A. Security Plan:

1. The VA security plan defines both physical and administrative security procedures that shall remain effective for the entire duration of the project. The Contractor shall receive the security plan from the COR at the Medical Center Fort Wayne, IN campus.
2. The General Contractor is responsible for assuring that all sub-contractors working on the project and their employees also comply with these regulations.

B. Security Procedures:

1. General Contractor's employees shall not enter the project site without appropriate badge. They shall also be subject to inspection of their personal effects when entering or leaving the project site.
2. For working outside the "regular hours" as defined in the contract, The General Contractor shall give 3 days notice to the Contracting Officer so that security arrangements can be provided for the employees. This notice is separate from any notices required for utility shutdown described later in this section.
3. No photography of VA premises is allowed without written permission of the CO.
4. VA reserves the right to close down or shut down the project site and order General Contractor's employees off the premises in the event of a national emergency. The General Contractor shall return to the site only with the written approval of the CO.

## C. Document Control:

1. Before starting any work, the General Contractor/Sub Contractors shall submit an electronic security memorandum describing the approach to following goals and maintaining confidentiality of "sensitive information". Sensitive information is defined as all departmental data on storage media or in any form or format. Examples: individually-identifiable medical, benefits, and personnel information; financial, budgetary, research, quality assurance; confidential commercial, critical infrastructure, investigatory, and law enforcement information; information that is confidential and privileged in litigation such as information protected by the deliberative process privilege, attorney work-product privilege, and the attorney client privilege; and other information which, if released, could result in violation of law or harm or unfairness to any individual or group, or could adversely affect the natural interest or the conduct of federal programs.
2. The General Contractor is responsible for safekeeping of all drawings, project manual and other project information. This information shall be shared only with those with a specific need to accomplish the project.
3. Certain documents, sketches, videos or photographs and drawings shall be marked "Law Enforcement Sensitive" or "Sensitive Unclassified". Secure such information in separate containers and limit the access to only those who shall need it for the project. Return the information to the CO upon request.
4. These security documents shall not be removed or transmitted from the project site without the written approval of Contracting Officer.
5. All paper waste or electronic media such as CD's and diskettes shall be shredded and destroyed in a manner acceptable to the VA. All paper waste or electronic media such as CD's and diskettes shall be shredded and destroyed by a certified facility and a receipt shall be provided to the COR.
6. Notify CO and Site Security Officer immediately when there is a loss or compromise of "sensitive information".

7. All electronic information shall be stored in specified location following VA standards and procedures using an Engineering Document Management Software (EDMS).
  - a. Security, access and maintenance of all project drawings, both scanned and electronic shall be performed and tracked through the EDMS system.
  - b. "Sensitive information" including drawings and other documents shall be attached to e-mail provided all VA encryption procedures are followed.

#### D. Motor Vehicle Restrictions

1. Separate permits shall be issued for General Contractor and its employees for parking in designated areas only.

### 1.5 FIRE SAFETY

- A. Applicable Publications: Publications listed below form part of this Article to extent referenced. Publications are referenced in text by basic designations only.

1. American Society for Testing and Materials (ASTM):

E84-2009.....Surface Burning Characteristics of Building  
Materials

2. National Fire Protection Association (NFPA):

10-2010.....Standard for Portable Fire Extinguishers

30-2008.....Flammable and Combustible Liquids Code

51B-2009.....Standard for Fire Prevention During Welding,  
Cutting and Other Hot Work

70-2011.....National Electrical Code

241-2009.....Standard for Safeguarding Construction,  
Alteration, and Demolition Operations

3. Occupational Safety and Health Administration (OSHA):

29 CFR 1926.....Safety and Health Regulations for Construction

- B. Fire Safety Plan: Establish and maintain a fire protection program in accordance with 29 CFR 1926. Prior to start of work, prepare a plan detailing project-specific fire safety measures, including periodic status reports, and submit to COR and Facility Safety Officer for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES Prior to any worker for the contractor or subcontractors beginning work, they shall undergo a safety briefing provided by the general contractor's competent person per OSHA requirements. This briefing shall include information on the construction limits, VAMC safety guidelines, means of egress, break areas, work hours, locations of restrooms, use of VAMC equipment. Documentation shall be provided to the COR that individuals have undergone contractor's safety briefing.
- C. Site and Building Access: Maintain free and unobstructed access to facility emergency services and for fire, police and other emergency response forces in accordance with NFPA 241.
- D. Separate temporary facilities, such as trailers, storage sheds, and dumpsters, from existing buildings and new construction by distances in accordance with NFPA 241. For small facilities with less than 6 m (20 feet) exposing overall length, separate by 3m (10 feet).
- E. Means of Egress: Do not block exiting for occupied buildings, including paths from exits to roads. Minimize disruptions and coordinate with the COR and facility Safety Officer.
- F. Egress Routes for Construction Workers: Maintain free and unobstructed egress. Inspect daily. Report findings and corrective actions weekly to COR and facility Safety Officer.
- G. Fire Extinguishers: Provide and maintain extinguishers in construction areas and temporary storage areas in accordance with 29 CFR 1926, NFPA 241 and NFPA 10.
- H. Flammable and Combustible Liquids: Store, dispense and use liquids in accordance with 29 CFR 1926, NFPA 241 and NFPA 30.
- I. Existing Fire Protection: Do not impair automatic sprinklers, smoke and heat detection, and fire alarm systems, except for portions immediately under construction, and temporarily for connections. Provide fire watch for impairments more than 4 hours in a 24-hour period. Request interruptions in accordance with Article, OPERATIONS AND STORAGE AREAS,

and coordinate with COR and facility Safety Officer. All existing or temporary fire protection systems (fire alarms, sprinklers) located in construction areas shall be tested as coordinated with the medical center. Parameters for the testing and results of any tests performed shall be recorded by the medical center and copies provided to the COR.

- J. Smoking: Smoking is prohibited in and adjacent to construction areas inside existing buildings and additions under construction. In separate and detached buildings under construction, smoking is prohibited except in designated smoking rest areas.
- K. Dispose of waste and debris in accordance with NFPA 241. Remove from buildings daily.
- L. Perform other construction, alteration and demolition operations in accordance with 29 CFR 1926.

#### **1.6 OPERATIONS AND STORAGE AREAS**

- A. The Contractor shall, under regulations prescribed by the CO, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the CO. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.
- B. Working space and space available for storing materials shall be as determined by the COR. Please note that no materials shall be stored in VA buildings without permission from the COR and materials shall not be stored in the hospital. Contractor is responsible for providing temporary storage for materials. Contractor shall coordinate location of temporary storage with the COR. Contractor is also responsible for accepting delivery of materials to the job site. The VA shall not accept materials on behalf of the Contractor.
- D. Workmen are subject to rules of Medical Center applicable to their conduct.
- E. Execute work so as to interfere as little as possible with normal functioning of Medical Center as a whole, including operations of utility services, fire protection systems and any existing equipment,

and with work being done by others. Use of equipment and tools that transmit vibrations and noises through the building structure, are not permitted in buildings that are occupied, during construction, jointly by patients or medical personnel, and Contractor's personnel, except as permitted by COR where required by limited working space.

1. Do not store materials and equipment in other than assigned areas.
2. Schedule delivery of materials and equipment to immediate construction working areas within buildings in use by Department of Veterans Affairs in quantities sufficient for not more than two work days. Provide unobstructed access to Medical Center areas required to remain in operation.
3. Where access by Medical Center personnel to vacated portions of buildings is not required, storage of Contractor's materials and equipment shall be permitted subject to fire and safety requirements only with permission from the COR in advance.

F. Utilities Services: Where necessary to cut existing pipes, electrical wires, conduits, cables, of utility services, or of fire protection systems or communications systems (except telephone), they shall be cut and capped at suitable places where shown; or, in absence of such indication, where directed by COR. All such actions shall be coordinated with the Utility Company involved:

G. Phasing: To insure such executions, Contractor shall furnish the COR with a schedule of approximate dates on which the Contractor intends to accomplish work in each specific area of site, building or portion thereof. In addition, Contractor shall notify the COR two weeks in advance of the proposed date of starting work in each specific area of site, building or portion thereof. Arrange such dates to insure accomplishment of this work in successive phases mutually agreeable to Medical Center Director, COR and Contractor, as follows:

H. Utilities Services: Maintain existing utility services for Medical Center at all times. Provide temporary facilities, labor, materials, equipment, connections, and utilities to assure uninterrupted services. Where necessary to cut existing water, steam, gases, sewer or air pipes, or conduits, wires, cables of utility services or of fire protection systems and communications systems (including telephone), they shall be

cut and capped at suitable places where shown; or, in absence of such indication, where directed by COR.

1. No utility service such as water, gas, steam, sewers or electricity, or fire protection systems and communications systems shall be interrupted without prior approval of COR. Electrical work shall be accomplished with all affected circuits or equipment de-energized. When an electrical outage cannot be accomplished, work on any energized circuits or equipment shall not commence without the Medical Center Director's prior knowledge and written approval. Refer to specification Sections 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS.
  2. Contractor shall submit a request to interrupt any such services to COR, in writing, 48 hours in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.
  3. Contractor shall be advised (in writing) of approval of request, or of which other date and/or time such interruption shall cause least inconvenience to operations of Medical Center. Interruption time approved by Medical Center shall occur at other than Contractor's normal working hours.
  4. Major interruptions of any system shall be requested, in writing, at least 15 calendar days prior to the desired time and shall be performed as directed by the COR.
  5. In case of a contract construction emergency, service shall be interrupted on approval of COR. Such approval shall be confirmed in writing as soon as practical.
  6. Whenever it is required that a connection fee be paid to a public utility provider for new permanent service to the construction project, for such items as water, sewer, electricity, gas or steam, payment of such fee shall be the responsibility of the Government and not the Contractor.
- K. Abandoned Lines: All service lines such as wires, cables, conduits, ducts, pipes and the like, and their hangers or supports, which shall be abandoned but are not required to be entirely removed, shall be sealed, capped or plugged. The lines shall not be capped in finished areas, but shall be removed and sealed, capped or plugged in ceilings, within

furred spaces, in unfinished areas, or within walls or partitions; so that they are completely behind the finished surfaces.

L. To minimize interference of construction activities with flow of Medical Center traffic, comply with the following:

1. Keep roads, walks and entrances to grounds, to parking and to occupied areas of buildings clear of construction materials, debris and standing construction equipment and vehicles. Wherever excavation for new utility lines cross existing roads, at least one lane shall be open to traffic at all times.
2. Method and scheduling of required cutting, altering and removal of existing roads, walks and entrances shall be approved by the COR.

M. Coordinate the work for this contract with other construction operations as directed by COR. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS.

#### **1.7 ALTERATIONS**

A. Survey: Before any work is started, the Contractor shall make a thorough survey with the COR of areas of buildings in which alterations occur and areas which are anticipated routes of access, and furnish a report, signed by both, to the CO. This report shall list by rooms and spaces:

1. Existing condition and types of resilient flooring, doors, windows, walls and other surfaces not required to be altered throughout buildings.
2. Shall note any discrepancies between drawings and existing conditions at site.
3. Shall designate areas for working space, materials storage and routes of access to areas within buildings where alterations occur and which have been agreed upon by Contractor and COR.

B. Any items required by drawings to be either reused or relocated or both, found during this survey to be nonexistent, or in opinion of COR, to be in such condition that their use is impossible or impractical, shall be furnished and/or replaced by Contractor with new items in accordance with specifications which shall be furnished by Government. Provided the contract work is changed by reason of this subparagraph B, the contract



shall be modified accordingly, under provisions of clauses entitled "DIFFERING SITE CONDITIONS" and "CHANGES".

C. Re-Survey: Thirty days before expected partial or final inspection date, the Contractor and COR together shall make a thorough re-survey of the areas of buildings involved. They shall furnish a report on conditions then existing, of resilient flooring, doors, windows, walls and other surfaces as compared with conditions of same as noted in first condition survey report:

1. Re-survey report shall also list any damage caused by Contractor to such flooring and other surfaces, despite protection measures; and, shall form basis for determining extent of repair work required of Contractor to restore damage caused by Contractor's workmen in executing work of this contract.

D. Protection: Provide the following protective measures:

1. Protection of interior of existing structures at all times, from damage, dust and weather inclemency. Wherever work is performed, floor surfaces that are to remain in place shall be adequately protected prior to starting work, and this protection shall be maintained intact until all work in the area is completed.

## **1.8 INFECTION PREVENTION MEASURES**

A. Implement the requirements of VAMC's Infection Control Risk Assessment (ICRA) team. ICRA Group shall monitor dust in the vicinity of the construction work and require the Contractor to take corrective action immediately if the safe levels are exceeded.

B. Establish and maintain a dust control program as part of the contractor's infection preventive measures in accordance with the guidelines provided by ICRA Group. Prior to start of work, prepare a plan detailing project-specific dust protection measures, including periodic status reports, and submit to COR for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.

1. All personnel involved in the construction or renovation activity shall be educated and trained in infection prevention measures established by the medical center.

C. Medical center Infection Control personnel shall monitor for airborne disease (e.g. aspergillosis) as appropriate during construction. A baseline of conditions shall be established by the medical center prior to the start of work and periodically during the construction stage to determine impact of construction activities on indoor air quality. In addition:

1. The COR and VAMC Infection Control personnel shall review pressure differential monitoring documentation to verify that pressure differentials in the construction zone and in the patient-care rooms are appropriate for their settings. The requirement for negative air pressure in the construction zone shall depend on the location and type of activity. Upon notification, the contractor shall implement corrective measures to restore proper pressure differentials as needed.
2. In case of any problem, the medical center, along with assistance from the contractor, shall conduct an environmental assessment to find and eliminate the source.

D. In general, following preventive measures shall be adopted during construction to keep down dust and prevent mold.

1. Dampen debris to keep down dust and provide temporary construction partitions in existing structures where directed by COR. Blank off ducts and diffusers to prevent circulation of dust into occupied areas during construction.
2. Do not perform dust producing tasks within occupied areas without the approval of the COR. For construction in any areas that shall remain jointly occupied by the medical Center and Contractor's workers, the Contractor shall:
  - a. A fire retardant polystyrene, 6-mil thick or greater plastic barrier meeting local fire codes shall be used where dust control is the only hazard, and an agreement is reached with the COR and Medical Center.
  - b. HEPA filtration is required where the exhaust dust shall reenter the breathing zone. Contractor shall verify that construction exhaust to exterior is not reintroduced to the medical center through intake vents, or building openings. Install HEPA (High Efficiency Particulate Accumulator) filter vacuum system rated at

95% capture of 0.3 microns including pollen, mold spores and dust particles. Insure continuous negative air pressures occurring within the work area. HEPA filters shall have ASHRAE 85 or other prefilter to extend the useful life of the HEPA. Provide both primary and secondary filtrations units. Exhaust hoses shall be heavy duty, flexible steel reinforced and exhausted so that dust is not reintroduced to the medical center.

- c. Adhesive Walk-off/Carpet Walk-off Mats, minimum 600mm x 900mm (24" x 36"), shall be used at all interior transitions from the construction area to occupied medical center area. These mats shall be changed as often as required to maintain clean work areas directly outside construction area at all times.
- d. Vacuum and wet mop all transition areas from construction to the occupied medical center at the end of each workday. Vacuum shall utilize HEPA filtration. Maintain surrounding area frequently. Remove debris as they are created. Transport these outside the construction area in containers with tightly fitting lids.
- e. The contractor shall not haul debris through patient-care areas without prior approval of the COR and the Medical Center. When, approved, debris shall be hauled in enclosed dust proof containers or wrapped in plastic and sealed with duct tape. No sharp objects shall be allowed to cut through the plastic. Wipe down the exterior of the containers with a damp rag to remove dust. All equipment, tools, material transported through occupied areas shall be made free from dust and moisture by vacuuming and wipe down.
- f. Using a HEPA vacuum, clean inside the barrier and vacuum ceiling tile prior to replacement. Any ceiling access panels opened for investigation beyond sealed areas shall be sealed immediately when unattended.
- g. There shall be no standing water during construction. This includes water in equipment drip pans and open containers within the construction areas. All accidental spills shall be cleaned up and dried within 12 hours. Remove and dispose of porous materials that remain damp for more than 72 hours.

- h. At completion, remove construction barriers and ceiling protection carefully, outside of normal work hours. Vacuum and clean all surfaces free of dust after the removal.

E. Final Cleanup:

1. Upon completion of project, or as work progresses, remove all construction debris from above ceiling, vertical shafts and utility chases that have been part of the construction.
2. Perform HEPA vacuum cleaning of all surfaces in the construction area. This includes walls, ceilings, cabinets, furniture (built-in or free standing), partitions, flooring.

### **1.9 DISPOSAL AND RETENTION**

- A. Materials and equipment accruing from work removed and from demolition of buildings or structures, or parts thereof, shall be disposed of as follows:

1. Reserved items which are to remain property of the Government are identified by removal drawings. Items that remain property of the Government shall be removed or dislodged from present locations in such a manner as to prevent damage which would be detrimental to re-installation and reuse. Such items shall be stored in Government-controlled area as directed by COR.
2. Items not reserved shall become property of the Contractor and be removed by Contractor from Medical Center.
3. Items of portable equipment and furnishings located in rooms and spaces in which work is to be done under this contract shall remain the property of the Government. When rooms and spaces are vacated by the Department of Veterans Affairs during the alteration period, such items which are NOT required by drawings and specifications to be either relocated or reused shall be removed by the Government in advance of work to avoid interfering with Contractor's operation.

### **1.10 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS**

- A. Refer to Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS, for additional requirements on protecting vegetation, soils and the environment. Refer to Articles, "Alterations", "Restoration" for

additional instructions concerning repair of damage to structures and site improvements.

#### **1.11 RESTORATION**

- A. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Except as otherwise shown or specified, do not cut, alter or remove any structural work, and do not disturb any ducts, plumbing, steam, gas, or electric work without approval of the COR. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the COR before it is disturbed. Materials and workmanship used in restoring work, shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.
- B. Upon completion of contract, deliver work complete and undamaged. Existing work (walls, ceilings, partitions, floors, mechanical and electrical work, lawns, paving, roads, walks) disturbed or removed as a result of performing required new work, shall be patched, repaired, reinstalled, or replaced with new work, and refinished and left in as good condition as existed before commencing work.
- C. At Contractor's own expense, Contractor shall immediately restore to service and repair any damage caused by Contractor's workmen to existing piping and conduits, wires, cables, of utility services or of fire protection systems and communications systems (including telephone) which are indicated on drawings and which are not scheduled for discontinuance or abandonment.
- D. Expense of repairs to such utilities and systems not shown on drawings or locations of which are unknown shall be covered by adjustment to contract time and price in accordance with clauses entitled "CHANGES" and "DIFFERING SITE CONDITIONS".

#### **1.12 USE OF ROADWAYS**

- A. For hauling, use only established public roads and roads on Medical Center property and, when authorized by the COR, such temporary roads which are necessary in the performance of contract work. Temporary roads shall be constructed by the Contractor at Contractor's expense. When necessary to cross curbing, sidewalks, or similar construction, they shall be protected by well-constructed bridges.

**1.13 TEMPORARY USE OF EXISTING ELEVATORS**

A. Use of existing elevators for handling building materials and Contractor's personnel shall be permitted subject to following provisions:

1. Contractor makes all arrangements with the COR for use of elevators. The COR shall ascertain that elevators are in proper condition. Contractor shall use elevators in Building Nos. 1 for daily use when permission is granted. Personnel for operating elevators shall not be provided by the Department of Veterans Affairs.
2. Contractor covers and provides protection of following elevator components:
  - a. Entrance jambs, heads soffits and threshold plates.
  - b. Entrance columns, canopy, return panels and inside surfaces of car enclosure walls.
  - c. Finish flooring.
3. Place elevator in condition equal, less normal wear, to that existing at time it was placed in service of Contractor as approved by CO.

**1.14 TEMPORARY TOILETS**

A. Contractor shall have for use of Contractor's workmen, such toilet accommodations as shall be assigned to Contractor by Medical Center. Contractor shall keep such places clean and be responsible for any damage done thereto by Contractor's workmen. Failure to maintain satisfactory condition in toilets shall deprive Contractor of the privilege to use such toilets.

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**SECTION 01 33 23**  
**SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES**

- 1.1. Refer to Articles titled SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION and, SPECIAL NOTES, in GENERAL CONDITIONS.
- 1.2. For the purposes of this contract, samples, test reports, certificates, and manufacturers' literature and data shall also be subject to the previously referenced requirements. The following text refers to all items collectively as SUBMITTALS.
- 1.3. Submit for approval, all of the items specifically mentioned under the separate sections of the specification, with information sufficient to evidence full compliance with contract requirements. Materials, fabricated articles and the like to be installed in permanent work shall equal those of approved submittals. After an item has been approved, no change in brand or make shall be permitted unless:
  - A. Satisfactory written evidence is presented to, and approved by CO, that manufacturer cannot make scheduled delivery of approved item or;
  - B. Item delivered has been rejected and substitution of a suitable item is an urgent necessity or;
  - C. Other conditions become apparent which indicates approval of such substitute item to be in best interest of the Government.
- 1.4. Forward submittals in sufficient time to permit proper consideration and approval action by Government. Time submission to assure adequate lead time for procurement of contract - required items. Delays attributable to untimely and rejected submittals shall not serve as a basis for extending contract time for completion.
- 1.5. Submittals shall be reviewed for compliance with contract requirements by Architect-Engineer, and action thereon shall be taken by COR on behalf of the CO.
- 1.6. Upon receipt of submittals, Architect-Engineer shall assign a file number thereto. Contractor, in any subsequent correspondence, shall refer to this file and identification number to expedite replies relative to previously approved or disapproved submittals.
- 1.7. The Government reserves the right to require additional submittals, whether or not particularly mentioned in this contract. If additional submittals beyond those required by the contract are furnished pursuant to request therefor by CO, adjustment in contract price and time shall be made in accordance with Articles titled CHANGES and CHANGES - SUPPLEMENT of the GENERAL CONDITIONS.

- 1.8. Schedules called for in specifications and shown on shop drawings shall be submitted for use and information of Department of Veterans Affairs and Architect-Engineer. However, the Contractor shall assume responsibility for coordinating and verifying schedules. The CO and Architect-Engineer assumes no responsibility for checking schedules or layout drawings for exact sizes, exact numbers and detailed positioning of items.
- 1.9. Submittals shall be submitted by Contractor only and shipped prepaid. CO assumes no responsibility for checking quantities or exact numbers included in such submittals.
  - A. Submittals shall receive consideration only when covered by a transmittal letter signed by Contractor. Letter shall be emailed or sent via first class mail, if submittal contains a physical sample and shall contain the list of items, name of Medical Center, name of Contractor, contract number, applicable specification paragraph numbers, applicable drawing numbers (and other information required for exact identification of location for each item), manufacturer and brand, ASTM or Federal Specification Number (if any) and such additional information as shall be required by specifications for particular item being furnished. In addition, catalogs shall be marked to indicate specific items submitted for approval.
    1. A copy of letter shall be enclosed with items, and any items received without identification letter shall be considered "unclaimed goods" and held for a limited time only.
    2. Each sample, certificate, manufacturers' literature and data shall be labeled to indicate the name and location of the Medical Center, name of Contractor, manufacturer, brand, contract number and ASTM or Federal Specification Number as applicable and location(s) on project.
    3. Required certificates shall be signed by an authorized representative of manufacturer or supplier of material, and by Contractor.
  - B. If submittal samples have been rejected, resubmit new samples as soon as possible after notification of rejection. Such new samples shall be marked "Resubmitted Sample" in addition to containing other previously specified information required on label and in transmittal letter.
  - C. Approved samples shall be kept on file by the COR at the site until completion of contract, at which time such samples shall be delivered to Contractor as Contractor's property. Where noted in technical sections of specifications, approved samples in good condition shall be used in



their proper locations in contract work. At completion of contract, samples that are not approved shall be returned to Contractor only upon request and at Contractor's expense. Such request shall be made prior to completion of the contract. Disapproved samples that are not requested for return by Contractor shall be discarded after completion of contract.

- D. Submittal drawings (shop, erection or setting drawings) and schedules, required for work of various trades, shall be checked before submission by technically qualified employees of Contractor for accuracy, completeness and compliance with contract requirements. These drawings and schedules shall be stamped and signed by Contractor certifying to such check.

1. For each drawing required, submit one PDF file.
2. Each drawing shall have marked thereon, proper descriptive title, including Medical Center location, project number, manufacturer's number, reference to contract drawing number, detail Section Number, and Specification Section Number.
3. A space 120 mm by 125 mm (4-3/4 by 5 inches) shall be reserved on each drawing to accommodate approval or disapproval stamp.
4. When work is directly related and involves more than one trade, shop drawings shall be submitted to Architect-Engineer under one cover.

- 1.10. Samples, shop drawings, test reports, certificates and manufacturers' literature and data, shall be submitted for approval to

\_\_\_\_ Kerry Osborne      [kerry.osborne@urs.com](mailto:kerry.osborne@urs.com) \_\_\_\_\_

(Architect)

\_\_\_\_ One Indiana Square, Suite 2100 \_\_\_\_\_

(A/E P.O. Address)

\_\_\_\_ Indianapolis, Indiana 46204 \_\_\_\_\_

(City, State and Zip Code)

- 1.11. At the time of transmittal to the Architect, the Contractor shall also send an electronic file copy of the complete submittal directly to the COR.

1.12. Samples for approval shall be sent to Architect, in care of COR, VA  
Medical Center,

Valeria McCue

(Engineering)

1700 East 38th Street

(P.O. Address)

Marion, Indiana 46593

(City, State and Zip Code)

#### 1.15 WARRANTY LIST

Refer to individual sections for complete requirement for each warranty.

<b>Specification Section</b>	<b>Warranty Referenced</b>
10 13 00	Warranty of Work - Components, Assembly and Installation of signage
10 14 00	Warranty of Work - Components, Assembly and Installation of signage
26 05 11	1 Year Warranty of Work, Equipment and Material
32 90 00	1 Year Warranty of Work and Material, Extended 1 year Warranty of Replacement Material

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**SECTION 01 57 19**  
**TEMPORARY ENVIRONMENTAL CONTROLS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies the control of environmental pollution and damage that the Contractor shall consider for air, water, and land resources. It includes management of visual aesthetics, noise, solid waste, radiant energy, and radioactive materials, as well as other pollutants and resources encountered or generated by the Contractor. The Contractor is obligated to consider specified control measures with the costs included within the various contract items of work.
- B. Environmental pollution and damage is defined as the presence of chemical, physical, or biological elements or agents which:
1. Adversely effect human health or welfare,
  2. Unfavorably alter ecological balances of importance to human life,
  3. Effect other species of importance to humankind, or;
  4. Degrade the utility of the environment for aesthetic, cultural, and historical purposes.
- C. Definitions of Pollutants:
1. Chemical Waste: Petroleum products, bituminous materials, salts, acids, alkalis, herbicides, pesticides, organic chemicals, and inorganic wastes.
  2. Debris: Combustible and noncombustible wastes, such as leaves, tree trimmings, ashes, and waste materials resulting from construction or maintenance and repair work.
  3. Sediment: Soil and other debris that has been eroded and transported by runoff water.
  4. Solid Waste: Rubbish, debris, garbage, and other discarded solid materials resulting from industrial, commercial, and agricultural operations and from community activities.
  5. Surface Discharge: The term "Surface Discharge" implies that the water is discharged with possible sheeting action and subsequent soil erosion could occur. Waters that are surface discharged shall terminate in drainage ditches, storm sewers, creeks, and/or "water of the United States" and would require a permit to discharge water from the governing agency.
  6. Rubbish: Combustible and noncombustible wastes such as paper, boxes, glass and crockery, metal and lumber scrap, tin cans, and bones.

7. Sanitary Wastes:

- a. Sewage: Domestic sanitary sewage and human and animal waste.
- b. Garbage: Refuse and scraps resulting from preparation, cooking, dispensing, and consumption of food.

**1.2 QUALITY CONTROL**

- A. Establish and maintain quality control for the environmental protection of all items set forth herein.
- B. Record on daily reports any problems in complying with laws, regulations, and ordinances. Note any corrective action taken.

**1.3 REFERENCES**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.
- B. U.S. National Archives and Records Administration (NARA):  
33 CFR 328.....Definitions

**1.4 SUBMITTALS**

- A. In accordance with Section, 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, furnish the following:
  - 1. Environmental Protection Plan: After the contract is awarded and prior to the commencement of the work, the Contractor shall meet with the COR to discuss the proposed Environmental Protection Plan and to develop mutual understanding relative to details of environmental protection. Not more than 20 days after the meeting, the Contractor shall prepare and submit to the COR for approval, a written and/or graphic Environmental Protection Plan including the following:
    - a. Name(s) of person(s) within the Contractor's organization who is (are) responsible for ensuring adherence to the Environmental Protection Plan.
    - b. Name(s) and qualifications of person(s) responsible for manifesting hazardous waste to be removed from the site.
    - c. Name(s) and qualifications of person(s) responsible for training the Contractor's environmental protection personnel.
    - d. Description of the Contractor's environmental protection personnel training program.
    - e. A list of Federal, State, and local laws, regulations, and permits concerning environmental protection, pollution control, noise control and abatement that are applicable to the Contractor's proposed operations and the requirements imposed by those laws, regulations, and permits.
    - f. Methods for protection of features to be preserved within authorized work areas including trees, shrubs, vines, grasses,

ground cover, landscape features, air and water quality, fish and wildlife, soil, historical, and archeological and cultural resources.

- g. Procedures to provide the environmental protection that comply with the applicable laws and regulations. Describe the procedures to correct pollution of the environment due to accident, natural causes, or failure to follow the procedures as described in the Environmental Protection Plan.
  - h. Permits, licenses, and the location of the solid waste disposal area.
  - i. Drawings showing locations of any proposed temporary excavations or embankments for haul roads, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials. Include as part of an Erosion Control Plan approved by the District Office of the U.S. Soil Conservation Service and the Department of Veterans Affairs.
  - j. Environmental Monitoring Plans for the job site including land, water, air, and noise.
  - k. Work Area Plan showing the proposed activity in each portion of the area and identifying the areas of limited use or nonuse. Plan shall include measures for marking the limits of use areas. This plan shall be incorporated within the Erosion Control Plan.
- B. Approval of the Contractor's Environmental Protection Plan shall not relieve the Contractor of responsibility for adequate and continued control of pollutants and other environmental protection measures.

#### **1.5 PROTECTION OF ENVIRONMENTAL RESOURCES**

- A. Protect environmental resources within the project boundaries and those affected outside the limits of permanent work during the entire period of this contract. Confine activities to areas defined by the specifications and drawings.
  - B. Protection of Land Resources: Prior to construction, identify all land resources to be preserved within the work area. Do not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, top soil, and land forms without permission from the COR. Do not fasten or attach ropes, cables, or guys to trees for anchorage unless specifically authorized, or where special emergency use is permitted.
- 1. Work Area Limits: Prior to any construction, mark the areas that require work to be performed under this contract. Mark or fence isolated areas within the general work area that shall be saved and protected. Protect monuments, works of art, and markers before

- construction operations begin. Convey to all personnel the purpose of marking and protecting all necessary objects.
2. Protection of Landscape: Protect trees, shrubs, vines, grasses, land forms, and other landscape features shown on the drawings to be preserved by marking, fencing, or using any other approved techniques.
    - a. Box and protect from damage existing trees and shrubs to remain on the construction site.
    - b. Immediately repair all damage to existing trees and shrubs by trimming, cleaning, and painting with antiseptic tree paint.
    - c. Do not store building materials or perform construction activities closer to existing trees or shrubs than the farthest extension of their limbs.
  3. Reduction of Exposure of Unprotected Erodible Soils: Plan and conduct earthwork to minimize the duration of exposure of unprotected soils. Clear areas in reasonably sized increments only as needed to use. Form earthwork to final grade as shown. Immediately protect side slopes and back slopes upon completion of rough grading.
  4. Temporary Protection of Disturbed Areas: Construct diversion ditches, benches, and berms to retard and divert runoff from the construction site to protected drainage areas approved under paragraph 208 of the Clean Water Act.
  5. Erosion and Sedimentation Control Devices: The erosion and sediment controls selected and maintained by the Contractor shall be such that water quality standards are not violated as a result of the Contractor's activities. Construct or install all temporary and permanent erosion and sedimentation control features on the Environmental Protection Plan. Maintain temporary erosion and sediment control measures such as berms, dikes, drains, sedimentation basins, grassing, and mulching, until permanent drainage and erosion control facilities are completed and operative.
  6. Manage borrow areas on Government property to minimize erosion and to prevent sediment from entering nearby water courses or lakes.
  7. Manage and control spoil areas on Government property to limit spoil to areas on the Environmental Protection Plan and prevent erosion of soil or sediment from entering nearby water courses or lakes.
  8. Protect adjacent areas from despoilment by temporary excavations and embankments.
  9. Handle and dispose of solid wastes in such a manner that shall prevent contamination of the environment. Place solid wastes (excluding clearing debris) in containers that are emptied on a

- regular schedule. Transport all solid waste off Government property and dispose of waste in compliance with Federal, State, and local requirements.
10. Store chemical waste away from the work areas in corrosion resistant containers and dispose of waste in accordance with Federal, State, and local regulations.
  11. Handle discarded materials other than those included in the solid waste category as directed by the COR.
- C. Protection of Water Resources: Keep construction activities under surveillance, management, and control to avoid pollution of surface and ground waters and sewer systems. Implement management techniques to control water pollution by the listed construction activities that are included in this contract.
1. Washing and Curing Water: Do not allow wastewater directly derived from construction activities to enter water areas. Collect and place wastewater in retention ponds allowing the suspended material to settle, the pollutants to separate, or the water to evaporate.
  2. Control movement of materials and equipment at stream crossings during construction to prevent violation of water pollution control standards of the Federal, State, or local government.
  3. Monitor water areas affected by construction.
- D. Protection of Fish and Wildlife Resources: Keep construction activities under surveillance, management, and control to minimize interference with, disturbance of, or damage to fish and wildlife. Prior to beginning construction operations, list species that require specific attention along with measures for their protection.
- E. Protection of Air Resources: Keep construction activities under surveillance, management, and control to minimize pollution of air resources.
1. Odors: Control odors of construction activities and prevent obnoxious odors from occurring.
- F. Reduction of Noise: Minimize noise using every action possible. Perform noise-producing work in less sensitive hours of the day or week as directed by the COR. **Maintain noise-produced work at or below the decibel levels and within the time periods specified.**
- Repetitive impact noise on the property shall not exceed the following dB limitations:

Time Duration of Impact Noise	Sound Level in dB
More than 12 minutes in any hour	70
Less than 30 seconds of any hour	85

Less than three minutes of any hour	80
Less than 12 minutes of any hour	75

2. Provide sound-deadening devices on equipment and take noise abatement measures that are necessary to comply with the requirements of this contract, consisting of the following:
  - a. Maintain maximum permissible construction equipment noise levels at 15 m (50 feet) (dBA):

EARTHMOVING		MATERIALS HANDLING	
FRONT LOADERS	75	CONCRETE MIXERS	75
BACKHOES	75	CONCRETE PUMPS	75
DOZERS	75	CRANES	75
TRACTORS	75	DERRICKS IMPACT	75
SCAPERS	80	PILE DRIVERS	95
GRADERS	75	JACK HAMMERS	75
TRUCKS	75	ROCK DRILLS	80
PAVERS, STATIONARY	80	PNEUMATIC TOOLS	80
PUMPS	75		
GENERATORS	75	SAWS	75
COMPRESSORS	75	VIBRATORS	75

- b. Use shields or other physical barriers to restrict noise transmission.
  - c. Provide soundproof housings or enclosures for noise-producing machinery.
  - d. Use efficient silencers on equipment air intakes.
  - e. Use efficient intake and exhaust mufflers on internal combustion engines that are maintained so equipment performs below noise levels specified.
  - f. Line hoppers and storage bins with sound deadening material.
  - g. Conduct truck loading, unloading, and hauling operations so that noise is kept to a minimum.
3. Measure sound level for noise exposure due to the construction at least once every five successive working days while work is being performed above 55 dB(A) noise level. Measure noise exposure at the property line or 15 m (50 feet) from the noise source, whichever is greater. Measure the sound levels on the A weighing network of a General Purpose sound level meter at slow response. To minimize the effect of reflective sound waves at buildings, take measurements at 900 to 1800 mm (three to six feet) in front of any building face.



Submit the recorded information to the COR noting any problems and the alternatives for mitigating actions.

- G. Restoration of Damaged Property: If any direct or indirect damage is done to public or private property resulting from any act, omission, neglect, or misconduct, the Contractor shall restore the damaged property to a condition equal to that existing before the damage at no additional cost to the Government. Repair, rebuild, or restore property as directed or make good such damage in an acceptable manner.
- H. Final Clean-up: On completion of project and after removal of all debris, rubbish, and temporary construction, Contractor shall leave the construction area in a clean condition satisfactory to the COR. Cleaning shall include off the station disposal of all items and materials not required to be salvaged, as well as all debris and rubbish resulting from demolition and new work operations.

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**SECTION 01 74 19**  
**CONSTRUCTION WASTE MANAGEMENT**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies the requirements for the management of non-hazardous building construction and demolition waste.
- B. Waste disposal in landfills shall be minimized to the greatest extent possible. Of the inevitable waste that is generated, as much of the waste material as economically feasible shall be salvaged, recycled or reused.
- C. Contractor shall use all reasonable means to divert construction and demolition waste from landfills and incinerators, and facilitate their salvage and recycle the following:
  - 1. Waste Management Plan development and implementation.
  - 2. Techniques to minimize waste generation.
  - 3. Sorting and separating of waste materials on site.
  - 4. Salvage of existing materials and items for reuse or resale.
  - 5. Recycling of materials that cannot be reused or sold.
- D. At a minimum the following waste categories shall be diverted from landfills:
  - 1. Soil.
  - 2. Inerts (eg, concrete, masonry and asphalt).
  - 3. Clean dimensional wood and palette wood.
  - 4. Green waste (biodegradable landscaping materials).
  - 5. Engineered wood products (plywood, particle board and I-joists).
  - 6. Metal products (eg, steel, wire, beverage containers, copper).
  - 7. Cardboard, paper and packaging.
  - 8. Bitumen roofing materials.
  - 9. Plastics (eg, ABS, PVC).
  - 10. Carpet and/or pad.
  - 11. Gypsum board.
  - 12. Insulation.
  - 13. Paint.
  - 14. Fluorescent lamps.

**1.2 RELATED WORK**

- A. Section 02 41 00, DEMOLITION.
- B. Section 01 00 00, GENERAL REQUIREMENTS.

### 1.3 QUALITY ASSURANCE

- A. Contractor shall practice efficient waste management when sizing, cutting and installing building products. Processes shall be employed to ensure the generation of as little waste as possible. Construction Demolition waste includes products of the following:
1. Excess or unusable construction materials.
  2. Packaging used for construction products.
  3. Poor planning and/or layout.
  4. Construction error.
  5. Over ordering.
  6. Weather damage.
  7. Contamination.
  8. Mishandling.
  9. Breakage.
- B. Establish and maintain the management of non-hazardous building construction and demolition waste set forth herein. Conduct a site assessment to estimate the types of materials that shall be generated by demolition and construction.
- C. Contractor shall develop and implement procedures to recycle construction and demolition waste to a minimum of 50 percent by volume.
- D. Contractor shall be responsible for implementation of any special programs involving rebates or similar incentives related to recycling. Any revenues or savings obtained from salvage or recycling shall accrue to the contractor.
- E. Contractor shall provide all demolition, removal and legal disposal of materials. Contractor shall ensure that facilities used for recycling, reuse and disposal shall be permitted for the intended use to the extent required by local, state, federal regulations. The Whole Building Design Guide website <http://www.cwm.wbdg.org> provides a Construction Waste Management Database that contains information on companies that haul, collect, and process recyclable debris from construction projects.
- F. Contractor shall assign a specific area to facilitate separation of materials for reuse, salvage, recycling, and return. Such areas shall be kept neat and clean and clearly marked in order to avoid contamination or mixing of materials.

- G. Contractor shall provide on-site instructions and supervision of separation, handling, salvaging, recycling, reuse and return methods to be used by all parties during waste generating stages.
- H. Record on daily reports any problems in complying with laws, regulations and ordinances with corrective action taken.

#### **1.4 TERMINOLOGY**

- A. Class III Landfill: A landfill that accepts non-hazardous resources such as household, commercial and industrial waste resulting from construction, remodeling, repair and demolition operations.
- B. Clean: Untreated and unpainted; uncontaminated with adhesives, oils, solvents, mastics and like products.
- C. Construction and Demolition Waste: Includes all non-hazardous resources resulting from construction, remodeling, alterations, repair and demolition operations.
- D. Dismantle: The process of parting out a building in such a way as to preserve the usefulness of its materials and components.
- E. Disposal: Acceptance of solid wastes at a legally operating facility for the purpose of land filling (includes Class III landfills and inert fills).
- F. Inert Backfill Site: A location, other than inert fill or other disposal facility, to which inert materials are taken for the purpose of filling an excavation, shoring or other soil engineering operation.
- G. Inert Fill: A facility that can legally accept inert waste, such as asphalt and concrete exclusively for the purpose of disposal.
- H. Inert Solids/Inert Waste: Non-liquid solid resources including soil and concrete that does not contain hazardous waste or soluble pollutants at concentrations in excess of water-quality objectives established by a regional water board, and does not contain significant quantities of decomposable solid resources.
- I. Mixed Debris: Loads that include commingled recyclable and non-recyclable materials generated at the construction site.
- J. Mixed Debris Recycling Facility: A solid resource processing facility that accepts loads of mixed construction and demolition debris for the purpose of recovering re-usable and recyclable materials and disposing non-recyclable materials.
- K. Permitted Waste Hauler: A company that holds a valid permit to collect and transport solid wastes from individuals or businesses for the purpose of recycling or disposal.

- L. Recycling: The process of sorting, cleansing, treating, and reconstituting materials for the purpose of using the altered form in the manufacture of a new product. Recycling does not include burning, incinerating or thermally destroying solid waste.
  - 1. On-site Recycling - Materials that are sorted and processed on site for use in an altered state in the work, i.e. concrete crushed for use as a sub-base in paving.
  - 2. Off-site Recycling - Materials hauled to a location and used in an altered form in the manufacture of new products.
- M. Recycling Facility: An operation that can legally accept materials for the purpose of processing the materials into an altered form for the manufacture of new products. Depending on the types of materials accepted and operating procedures, a recycling facility could be required to have a solid waste facilities permit or be regulated by the local enforcement agency.
- N. Reuse: Materials that are recovered for use in the same form, on-site or off-site.
- O. Return: To give back reusable items or unused products to vendors for credit.
- P. Salvage: To remove waste materials from the site for resale or re-use by a third party.
- Q. Source-Separated Materials: Materials that are sorted by type at the site for the purpose of reuse and recycling.
- R. Solid Waste: Materials that have been designated as non-recyclable and are discarded for the purposes of disposal.
- S. Transfer Station: A facility that can legally accept solid waste for the purpose of temporarily storing the materials for re-loading onto other trucks and transporting them to a landfill for disposal, or recovering some materials for re-use or recycling.

#### **1.5 SUBMITTALS**

- A. In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES, furnish the following:
- B. Prepare and submit to the COR a written demolition debris management plan. The plan shall include the following information:
  - 1. Procedures to be used for debris management.
  - 2. Techniques to be used to minimize waste generation.
  - 3. Analysis of the estimated job site waste to be generated:

- a. List of each material and quantity to be salvaged, reused, recycled.
  - b. List of each material and quantity proposed to be taken to a landfill.
- 4. Detailed description of the Means/Methods to be used for material handling.
  - a. On site: Material separation, storage, protection where applicable.
  - b. Off site: Transportation means and destination. Include list of materials.
    - 1) Description of materials to be site-separated and self-hauled to designated facilities.
    - 2) Description of mixed materials to be collected by designated waste haulers and removed from the site.
  - c. The names and locations of mixed debris reuse and recycling facilities or sites.
  - d. The names and locations of trash disposal landfill facilities or sites.
  - e. Documentation that the facilities or sites are approved to receive the materials.
- C. Designated Manager responsible for instructing personnel, supervising, documenting and administer over meetings relevant to the Waste Management Plan.
- D. Monthly summary of construction and demolition debris diversion and disposal, quantifying all materials generated at the work site and disposed of or diverted from disposal through recycling. Include diversion facility receipts.

#### **1.6 APPLICABLE PUBLICATIONS**

- A Publications listed below form a part of this specification to the extent referenced. Publications are referenced by the basic designation only. In the event that criteria requirements conflict, the most stringent requirements shall be met.
- B. U.S. Green Building Council (USGBC):  
LEED Green Building Rating System for New Construction & Major Renovations v. 2009.

#### **1.7 RECORDS**

Maintain records to document the quantity of waste generated; the quantity of waste diverted through sale, reuse, or recycling; and the

quantity of waste disposed by landfill or incineration. Records shall be kept in accordance with the LEED Reference Guide and LEED Template.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. List of each material and quantity to be salvaged, recycled, reused.
- B. List of each material and quantity proposed to be taken to a landfill.
- C. Material tracking data: Receiving parties, dates removed, transportation costs, weight tickets, tipping fees, manifests, invoices, net total costs or savings.

## **PART 3 - EXECUTION**

### **3.1 COLLECTION**

- A. Provide all necessary containers, bins and storage areas to facilitate effective waste management.
- B. Clearly identify containers, bins and storage areas so that recyclable materials are separated from trash and can be transported to respective recycling facility for processing.
- C. Hazardous wastes shall be separated, stored, disposed of according to local, state, federal regulations.

### **3.2 DISPOSAL**

- A. Contractor shall be responsible for transporting and disposing of materials that cannot be delivered to a source-separated or mixed materials recycling facility to a transfer station or disposal facility that can accept the materials in accordance with state and federal regulations.
- B. Construction or demolition materials with no practical reuse or that cannot be salvaged or recycled shall be disposed of at a landfill or incinerator.

### **3.3 REPORT**

- A. With each application for progress payment, submit a summary of construction and demolition debris diversion and disposal including beginning and ending dates of period covered.
- B. Quantify all materials diverted from landfill disposal through salvage or recycling during the period with the receiving parties, dates removed, transportation costs, weight tickets, manifests, invoices.

Include the net total costs or savings for each salvaged or recycled material.

- C. Quantify all materials disposed of during the period with the receiving parties, dates removed, transportation costs, weight tickets, tipping fees, manifests, invoices. Include the net total costs for each disposal.

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**SECTION 02 41 00  
DEMOLITION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies demolition and removal of buildings, portions of buildings, utilities, other structures and debris from trash dumps shown.

**1.2 RELATED WORK**

- A. Safety Requirements: GENERAL CONDITIONS, ACCIDENT PREVENTION.
- B. Disconnecting utility services prior to demolition: Section 01 00 00, GENERAL REQUIREMENTS.
- C. Reserved items that are to remain the property of the Government: Section 01 00 00, GENERAL REQUIREMENTS.
- D. Lead Paint: Section 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.
- E. Environmental Protection: Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS.
- F. Construction Waste Management: Section 017419 CONSTRUCTION WASTE MANAGEMENT.
- G. Infectious Control: Section 01 00 00, GENERAL REQUIREMENTS, Article 1.8, INFECTION PREVENTION MEASURES.

**1.3 PROTECTION**

- A. Perform demolition in such manner as to eliminate hazards to persons and property; to minimize interference with use of adjacent areas, utilities and structures or interruption of use of such utilities; and to provide free passage to and from such adjacent areas of structures. Comply with requirements of GENERAL CONDITIONS, ACCIDENT PREVENTION.
- B. Provide safeguards, including warning signs, barricades, temporary fences, warning lights, and other similar items that are required for protection of all personnel during demolition and removal operations. Comply with requirements of Section 01 00 00, GENERAL REQUIREMENTS, Article 1.10 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES AND IMPROVEMENTS.
- C. Maintain fences, barricades, lights, and other similar items around exposed excavations until such excavations have been completely filled.
- D. Provide enclosed dust chutes with control gates from each floor to carry debris to truck beds and govern flow of material into truck. Provide overhead bridges of tight board or prefabricated metal construction at dust chutes to protect persons and property from falling debris.
- E. Prevent spread of flying particles and dust. Sprinkle rubbish and debris with water to keep dust to a minimum. Do not use water if it results in

hazardous or objectionable condition such as, but not limited to; ice, flooding, or pollution. Vacuum and dust the work area daily.

- F. In addition to previously listed fire and safety rules to be observed in performance of work, include following:
  - 1. Maintain at least one stairway in each structure in usable condition to highest remaining floor. Keep stairway free of obstructions and debris.
  - 2. Wherever a cutting torch or other equipment that might cause a fire is used, provide and maintain fire extinguishers nearby ready for immediate use. Instruct all possible users in use of fire extinguishers.
  - 3. Keep hydrants clear and accessible at all times. Prohibit debris from accumulating within a radius of 4500 mm (15 feet) of fire hydrants.
- G. Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The contractor shall take necessary precautions to avoid damages to existing items to remain in place, to be reused, or to remain the property of the Medical Center; any damaged items shall be repaired or replaced as approved by the COR. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as shall be required as a result of any cutting, removal, or demolition work performed under this contract. Do not overload structural elements. Provide new supports and reinforcement for existing construction weakened by demolition or removal works. Repairs, reinforcement, or structural replacement shall have COR's approval.
- H. The work shall comply with the requirements of Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS.
- I. The work shall comply with the requirements of Section 01 00 00, GENERAL REQUIREMENTS, Article 1.8 INFECTION PREVENTION MEASURES.

## **PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION****3.1 DEMOLITION**

- A. Completely demolish and remove items shown in the drawings, including all appurtenances related or connected thereto, as noted below unless otherwise noted on drawings:
  - 1. As required for installation of new interior building signage, internally illuminated exterior signage and non-illuminated exterior signage.
  - 2. All foundations, anchorages, adhesives, tapes, paint build-up, and sealants.
- B. Debris, including brick, concrete, stone, metals and similar materials shall become property of Contractor and shall be disposed of by him daily, off the Medical Center property to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the COR. Contractor shall dispose debris in compliance with applicable federal, state or local permits, rules and/or regulations.
- C. Remove existing utilities as indicated or uncovered by work and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by the COR. When Utility lines are encountered that are not indicated on the drawings, the COR shall be notified prior to further work in that area.
- D. DO NOT remove electrical power supplies at internally illuminated exterior signs which are intended to be replaced. Refer to drawings.
- E. Signage not to be removed during demolition includes:
  - 1. Mandatory Policy Signs, law enforcement, "NO FIREARMS OR WEAPONS..."
  - 2. Instructional signs related to smoking requirements.
  - 3. Wall mounted signs suspended by nails or hooks.
- F. DO NOT remove signs until replacement signs are on site.

**3.2 CLEAN-UP**

On completion of work of this section and after removal of all debris, leave site in clean condition satisfactory to COR. Clean-up shall include off the Medical Center property disposal of all items and materials not required to remain property of the Government as well as all debris and rubbish resulting from demolition operations.

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**SECTION 02 83 33.13**  
**LEAD-BASED PAINT REMOVAL AND DISPOSAL**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies abatement and disposal of lead-based paint (LBP) and controls needed to limit occupational and environmental exposure to lead hazards.

**1.2 RELATED WORK**

A. Section 02 41 00, DEMOLITION.

**1.3 APPLICABLE PUBLICATIONS**

A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

B. Code of Federal Regulations (CFR):

CFR 29 Part 1910.....Occupational Safety and Health Standards

CFR 29 Part 1926.....Safety and Health Regulations for Construction

CFR 40 Part 148.....Hazardous Waste Injection Restrictions

CFR 40 Part 260.....Hazardous Waste Management System: General

CFR 40 Part 261.....Identification and Listing of Hazardous Waste

CFR 40 Part 262.....Standards Applicable to Generators of Hazardous  
Waste

CFR 40 Part 263.....Standards Applicable to Transporters of  
Hazardous Waste

CFR 40 Part 264.....Standards for Owners and Operations of Hazardous  
Waste Treatment, Storage, and Disposal  
Facilities

CFR 40 Part 265.....Interim Status Standards for Owners and  
Operators of Hazardous Waste Treatment, Storage,  
and Disposal Facilities

CFR 40 Part 268.....Land Disposal Restrictions

CFR 49 Part 172.....Hazardous Material Table, Special Provisions,  
Hazardous Material Communications, Emergency  
Response Information, and Training Requirements

CFR 49 Part 178.....Specifications for Packaging

C. National Fire Protection Association (NFPA):

NFPA 701-2004.....Methods of Fire Test for Flame-Resistant  
Textiles and Films

D. National Institute for Occupational Safety And Health (NIOSH)

NIOSH OSHA Booklet 3142.       Lead in Construction

E. Underwriters Laboratories (UL)

UL 586-1996 (Rev 2009).. High-Efficiency, Particulate, Air Filter  
Units

F. American National Standards Institute

Z9.2-2006.....Fundamentals Governing the Design and Operation  
of Local Exhaust Systems

Z88.6-2006.....Respiratory Protection

#### **1.4 DEFINITIONS**

- A. Action Level: Employee exposure, without regard to use of respirations, to an airborne concentration of lead of 30 micrograms per cubic meter of air averaged over an 8-hour period. As used in this section, "30 micrograms per cubic meter of air" refers to the action level.
- B. Area Monitoring: Sampling of lead concentrations within the lead control area and inside the physical boundaries which is representative of the airborne lead concentrations which could reach the breathing zone of personnel potentially exposed to lead.
- C. Physical Boundary: Area physically roped or partitioned off around an enclosed lead control area to limit unauthorized entry of personnel. As used in this section, "inside boundary" shall mean the same as "outside lead control area."
- D. Certified Industrial Hygienist (CIH): As used in this section, refers to an Industrial Hygienist employed by the Contractor and is certified by the American Board of Industrial Hygiene in comprehensive practice.
- E. Change Rooms and Shower Facilities: Rooms within the designated physical boundary around the lead control area equipped with separate storage facilities for clean protective work clothing and equipment and for street clothes which prevent cross- contamination.
- F. Competent Person: A person capable of identifying lead hazards in the work area and is authorized by the contractor to take corrective action.
- G. Decontamination Room: Room for removal of contaminated personal protective equipment (PPE).
- H. Eight-Hour Time Weighted Average (TWA): Airborne concentration of lead averaged over an 8-hour workday to which an employee is exposed.
- I. High Efficiency Particulate Air (HEPA) Filter Equipment: HEPA filtered vacuuming equipment with a UL 586 filter system capable of collecting and retaining lead-contaminated paint dust. A high efficiency particulate filter means 99.97 percent efficient against 0.3 micron size particles.
- J. Lead: Metallic lead, inorganic lead compounds, and organic lead soaps. Excluded from this definition are other organic lead compounds.
- K. Lead Control Area: An enclosed area or structure with full containment to prevent the spread of lead dust, paint chips, or debris of lead-

containing paint removal operations. The lead control area is isolated by physical boundaries to prevent unauthorized entry of personnel.

- L. Lead Permissible Exposure Limit (PEL): Fifty micrograms per cubic meter of air as an 8-hour time weighted average as determined by 29 CFR 1910.1025. If an employee is exposed for more than 8 hours in a work day, the PEL shall be determined by the following formula. 
$$\text{PEL (micrograms/cubic meter of air)} = 400/\text{No. of hrs worked per day}$$
- M. Personnel Monitoring: Sampling of lead concentrations within the breathing zone of an employee to determine the 8-hour time weighted average concentration in accordance with 29 CFR 1910.1025. Samples shall be representative of the employee's work tasks. Breathing zone shall be considered an area within a hemisphere, forward of the shoulders, with a radius of 150 mm to 225 mm (6 to 9 inches) and the center at the nose or mouth of an employee.

### **1.5 QUALITY ASSURANCE**

- A. Before exposure to lead-contaminated dust, provide workers with a comprehensive medical examination as required by 29 CFR 1926.62 (I) (1) (i) & (ii). The examination shall not be required if adequate records show that employees have been examined as required by 29 CFR 1926.62(I) without the last year.
- B. Medical Records: Maintain complete and accurate medical records of employees in accordance with 29 CFR 1910.20.
- C. CIH Responsibilities: The Contractor shall employ a certified Industrial Hygienist who shall be responsible for the following:
  - 1. Certify Training.
  - 2. Review and approve lead-containing paint removal plan for conformance to the applicable referenced standards.
  - 3. Inspect lead-containing paint removal work for conformance with the approved plan.
  - 4. Direct monitoring.
  - 5. Ensure work is performed in strict accordance with specifications at all times.
  - 6. Ensure hazardous exposure to personnel and to the environment are adequately controlled at all times.
- D. Training: Train each employee performing paint removal, disposal, and air sampling operations prior to the time of initial job assignment, in accordance with 29 CFR 1926.62.
- E. Training Certification: Submit certificates signed and dated by the CIH and by each employee stating that the employee has received training.
- F. Respiratory Protection Program:

1. Furnish each employee required to wear a negative pressure respirator or other appropriate type with a respirator fit test at the time of initial fitting and at least every 6 months thereafter as required by 29 CFR 1926.62.
  2. Establish and implement a respiratory protection program as required by 29 CFR 1910.134, 29 CFR 1910.1025, and 29 CFR 1926.62.
- G. Hazard Communication Program: Establish and implement a Hazard Communication Program as required by 29 CFR 1910.1200.
- H. Hazardous Waste Management: The Hazardous Waste Management plan shall comply with applicable requirements of Federal, State, and local hazardous waste regulations and address:
1. Identification of hazardous wastes associated with the work.
  2. Estimated quantities of wastes to be generated and disposed of.
  3. Names and qualifications of each contractor that shall be transporting, storing, treating, and disposing of the wastes. Include the facility location and a 24-hour point of contact. Furnish two copies of EPA, state, and local hazardous waste permit applications with identification numbers.
  4. Names and qualifications (experience and training) of personnel who shall be working on-site with hazardous wastes.
  5. List of waste handling equipment to be used in performing the work, to include cleaning, volume reduction, and transport equipment.
  6. Spill prevention, containment, and cleanup contingency measures to be implemented.
  7. Work plan and schedule for waste containment, removal and disposal. Wastes shall be cleaned up and containerized daily.
  8. Cost for hazardous waste disposal according to this plan.
- I. Safety and Health Compliance:
1. In addition to the detailed requirements of this specification, comply with laws, ordinances, rules, and regulations of federal, state, and local authorities regarding removing, handling, storing, transporting, and disposing of lead waste materials. Comply with the applicable requirements of the current issue of 29 CFR 1910.1025. Submit matters regarding interpretation of standards to the COR for resolution before starting work.
  2. Where specification requirements and the referenced documents vary, the most stringent requirements shall apply.
- J. Pre-Construction Conference: Along with the CIH, meet with the COR to discuss in detail the lead-containing paint removal work plan, including work procedures and precautions for the work plan.

## 1.6 SUBMITTALS

- A. Submit the following in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Catalog Data:
  - Vacuum filters
  - Respirators
- C. Instructions: Paint removal materials. Include applicable material safety data sheets.
- D. Statements Certifications and Statements:
  - 1. Qualifications of CIH: Submit name, address, and telephone number of the CIH selected to perform responsibilities in paragraph entitled "CIH Responsibilities." Provide previous experience of the CIH. Submit proper documentation that the Industrial Hygienist is certified by the American Board of Industrial Hygiene in comprehensive practice, including certification number and date of certification/recertification.
  - 2. Testing Laboratory: Submit the name, address, and telephone number of the testing laboratory selected to perform the monitoring, testing, and reporting of airborne concentrations of lead. Provide proper documentation that persons performing the analysis have been judged proficient by successful participation within the last year in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program. The laboratory shall be accredited by the American Industrial Hygiene Association (AIHA). Provide AIHA documentation along with date of accreditation/reaccreditation.
  - 3. Lead-Containing Paint Removal Plan:
    - a. Submit a detailed job-specific plan of the work procedures to be used in the removal of lead-containing paint. The plan shall include a sketch showing the location, size, and details of lead control areas, location and details of decontamination rooms, change rooms, shower facilities, and mechanical ventilation system.
    - b. Include in the plan, eating, drinking, smoking and restroom procedures, interface of trades, sequencing of lead related work, collected wastewater and paint debris disposal plan, air sampling plan, respirators, protective equipment, and a detailed description of the method of containment of the operation to ensure that airborne lead concentrations of 30 micrograms per cubic meter of air are not exceeded outside of the lead control area.



- c. Include air sampling, training and strategy, sampling methodology, frequency, duration of sampling, and qualifications of air monitoring personnel in the air sampling portion on the plan.
- 4. Field Test Reports: Monitoring Results: Submit monitoring results to the COR within 3 working days, signed by the testing laboratory employee performing the air monitoring, the employee that analyzed the sample, and the CIH.
- 5. Records:
  - a. Completed and signed hazardous waste manifest from treatment or disposal facility.
  - b. Certification of Medical Examinations.
  - c. Employee training certification.

## **PART 2 PRODUCTS**

PAINT REMOVAL PRODUCTS: Submit applicable Material Safety Data Sheets for paint removal products used in paint removal work. Use the least toxic product, suitable for the job and acceptable to the Industrial Hygienist.

## **PART 3 EXECUTION**

### **3.1 PROTECTION**

- A. Notification: Notify the COR 20 days prior to the start of any paint removal work.
- B. Lead Control Area Requirements.
  - 1. Establish a lead control area by completely enclosing with containment screens the area or structure where lead-containing paint removal operations shall be performed.
  - 2. Contain removal operations by the use of a negative pressure full containment system with at least one change room and with HEPA filtered exhaust.
- C. Protection of Existing Work to Remain: Perform paint removal work without damage or contamination of adjacent areas. Where existing work is damaged or contaminated, restore work to its original condition.
- D. Boundary Requirements: Provide physical boundaries around the lead control area by roping off the area [designated on the drawings] or providing curtains, portable partitions or other enclosures to ensure that airborne concentrations of lead shall not reach 30 micrograms per cubic meter of air outside of the lead control area.
- E. Heating, Ventilating and Air Conditioning (HVAC) Systems: Shut down, lock out, and isolate HVAC systems that supply, exhaust, or pass through the lead control areas. Seal intake and exhaust vents in the lead control area with 6-mil plastic sheet and tape. Seal seams in HVAC components that pass through the lead control area.