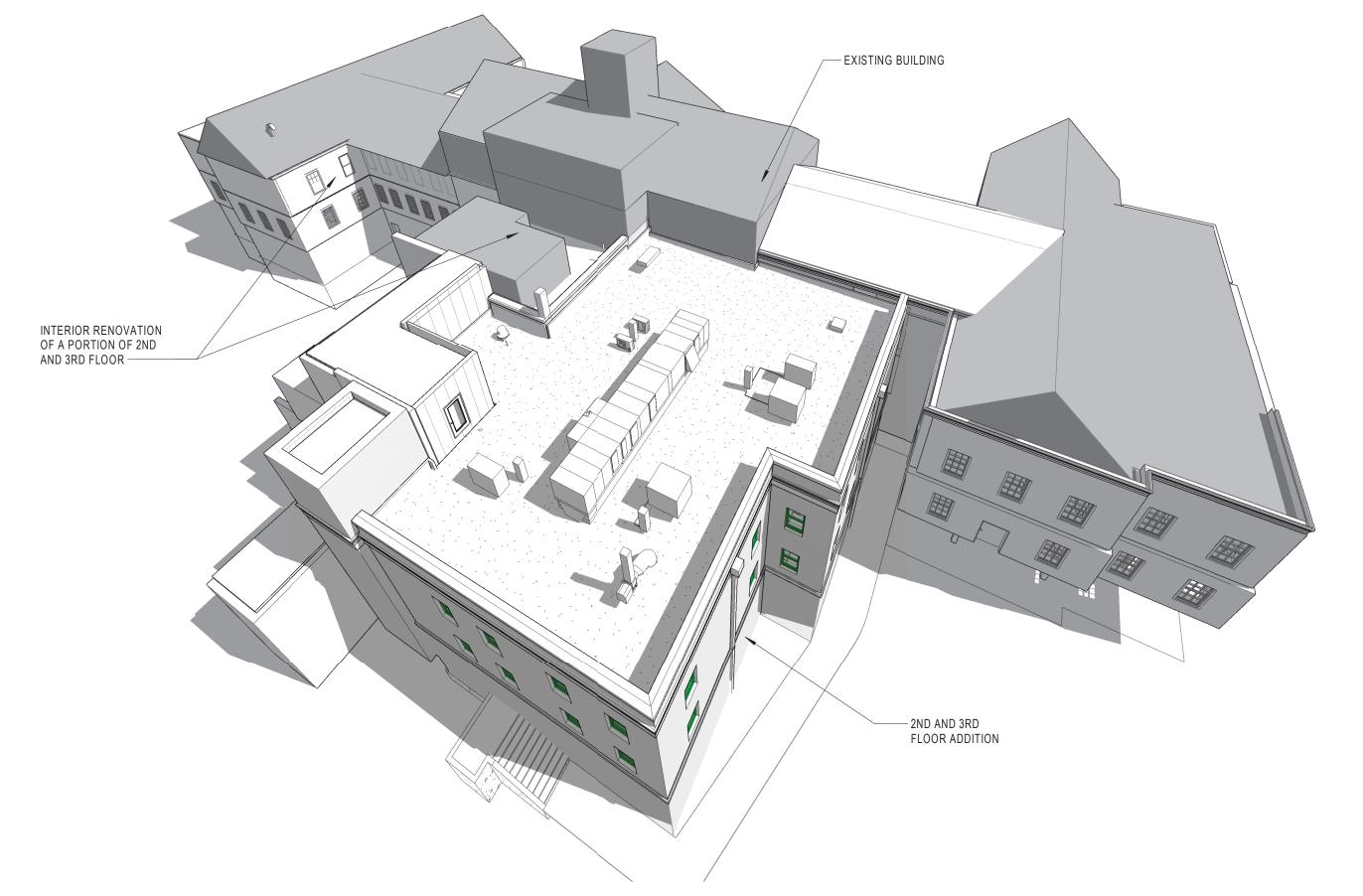


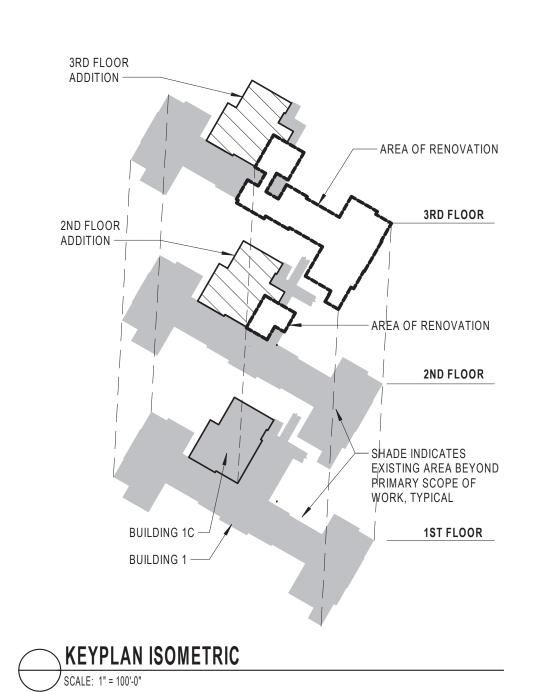
ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS BID DOCUMENTS

VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY

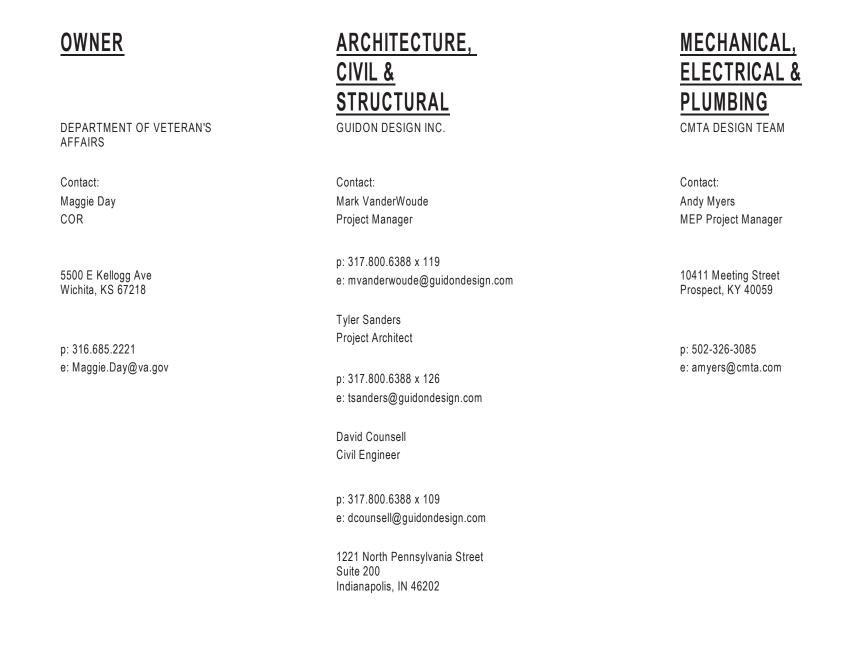
589-701







VA FORM 08 - 6231



SHEET		SHEET	
NUMBER	SHEET NAME	NUMBER	SHEET NAME
NOWIDER	SHELLINAME	NOMBLK	STILLT NAME
GENERAL		FIRE PROTECTION	
GI000	COVER SHEET	FA001	FIRE SUPPRESSION LEGEND
GI101	CODE ANALYSIS AND LIFE SAFETY PLANS	FA102	SECOND FLOOR FIRE PROTECTION PLAN
GI102	BID DEDUCTS	FA103	THIRD FLOOR FIRE PROTECTION PLAN
GC101	INFECTION CONTROL/PHASING PLANS		
GC102	SUPPLEMENTAL PHASING / CONSTRUCTION LOGISTICS	PLUMBING	
		MG101	THIRD FLOOR MEDICAL GAS DEMOLITION PLAN
CIVIL		MG102	THIRD FLOOR MEDICAL GAS PLAN
CC001	CONSTRUCTION ACCESS PLAN	PL001	PLUMBING LEGEND
CS101	GROUND LEVEL ACCESS PLAN	PL102	SECOND FLOOR PLUMBING DEMOLITION PLAN
		PL103	THIRD FLOOR PLUMBING DEMOLITION PLAN
STRUCTURAL		PL201	FIRST FLOOR PLUMBING PLAN
SI001	STRUCTURAL ABBREVIATIONS AND SYMBOLS	PL202	SECOND FLOOR PLUMBING PLAN
SI002	STRUCTURAL GENERAL NOTES	PL203	THIRD FLOOR PLUMBING PLAN
SI003	LOAD MAPS	PL301	DOMESTIC COLD WATER RISER - RENOVATED AREA
SF101	EXISTING ROOF - SECOND FLOOR SLAB PLAN	PL302	DOMESTIC HOT WATER RISER - RENOVATED AREA
SF102	THIRD FLOOR FRAMING PLAN	PL303	DOMESTIC COLD WATER RISER - NEW ADDITION
SF103	ROOF FRAMING PLAN	PL304	DOMESTIC HOT WATER RISER - NEW ADDITION
SF301	BUILDING ELEVATIONS	PL305	FILTERED COLD WATER/DIALYSIS LOOP RISER DIAGRAM
SF302	BRACE ELEVATIONS AND DETAILS	PL306	SANITARY WASTE AND VENT RISER DIAGRAM - RENOVATED AREA
SF501	SECTIONS AND DETAILS	PL307	SANITARY WASTE AND VENT RISER DIAGRAM - NEW ADDITION
SF502	SECTIONS AND DETAILS		
SF901	ISOMETRICS	MECHANICAL	
		MM001	MECHANICAL NOTES AND LEGEND
ARCHITECTURAL		MD101	HVAC DEMOLITION - BASEMENT
AE001	ARCHITECTURAL SYMBOLS AND ABBREVIATIONS	MD102	HVAC DEMOLITION - SECOND FLOOR
AE002	WALL TYPES	MD103	HVAC DEMOLITION - ATTIC
AD101	2ND FLOOR DEMOLITION PLAN	MD104	HVAC DEMOLITION - THIRD FLOOR
AD102	3RD FLOOR DEMOLITION PLAN	MD203	HVAC DEMOLITION - THIRD FLOOR HYDRONICS
AD111	2ND FLOOR DEMOLTION CEILING PLAN	MH100	HVAC PLAN - BASEMENT
AD112	3RD FLOOR DEMOLITION CEILING PLAN	MH101	HVAC PLAN - SECOND FLOOR
AD301	DEMOLITION WALL SECTIONS	MH102	HVAC PLAN - THIRD FLOOR
AE101	2ND FLOOR DIMENSION PLAN	MH103	HVAC PLAN - ROOF
AE102	2ND FLOOR ARCHITECTURAL PLAN	MH104	HVAC PLAN - ROOF
AE103	3RD FLOOR DIMENSION PLAN	MH200	MECHANICAL SECTIONS
AE104	3RD FLOOR ARCHITECTURAL PLAN	MP100	HYDRONICS PLAN - SECOND FLOOR
AE105 AE111	4TH FLOOR AND ROOF PLAN	MP101	HYDRONICS PLAN - SECOND FLOOR
AE111	2ND FLOOR CEILING PLAN 3RD FLOOR CEILING PLAN	MP102 MH500	HYDRONICS PLAN - THIRD FLOOR MECHANICAL DETAILS
AE201	BUILDING ELEVATIONS	MH501	MECHANICAL DETAILS MECHANICAL DETAILS
AE301	BUILDING SECTIONS BUILDING SECTIONS	MH502	MECHANICAL DETAILS MECHANICAL DETAILS
AE311	WALL SECTIONS	MH503	MECHANICAL DETAILS MECHANICAL DETAILS
AE321	WALL SECTION DETAILS	MH504	MECHANICAL DETAILS MECHANICAL DETAILS
AE501	ENLARGED PLANS AND TOILET ACCESSORY SCHEDULE	MH505	MECHANICAL CONTROLS
AE502	ENLARGED PLANS	MH506	MECHANICAL CONTROLS
AE601	DOOR AND WINDOW SCHEDULE	MH600	MECHANICAL SCHEDULES
AE801	INTERIOR ELEVATIONS		MEST W W 157 LE 501 LE 50 LE 5
AE802	INTERIOR ELEVATIONS	ELECTRICAL	
AE803	INTERIOR ELEVATIONS	E-001	ELECTRICAL LEGEND
AE804	INTERIOR SECTIONS, AND DETAILS	ED101	SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
AI101	2ND FLOOR FLOOR FINISH PLAN	ED102	THIRD FLOOR PLAN - ELECTRICAL DEMOLITION
AI102	3RD FLOOR FLOOR FINISH PLAN	ES201	SECOND FLOOR PLAN - LIGHTING
AI103	2ND FLOOR WALL FINISH PLAN	ES202	THIRD FLOOR PLAN - LIGHTING
AI104	3RD FLOOR WALL FINISH PLAN	ES301	SECOND FLOOR PLAN - POWER
Al601	FINISH SCHEDULE	ES302	THIRD FLOOR PLAN - POWER
Al901	2ND FLOOR SIGNAGE & ARTWORK PLAN	ES303	ROOF PLAN - ELECTRICAL
Al902	3RD FLOOR SIGNAGE & ARTWORK PLAN	ES401	SECOND FLOOR PLAN - SYSTEMS
AI903	SIGNAGE TYPES	ES402	THIRD FLOOR PLAN - SYSTEMS
QH101	2ND FLOOR EQUIPMENT PLAN	ES500	BASEMENT AND FIRST FLOOR - ELECTRICAL INTERCONNECTIONS
QH102	3RD FLOOR EQUIPMENT PLAN	ES501	SECOND AND THIRD FLOOR - ELECTRICAL INTERCONNECTIONS
		ES502	ENLARGED PLANS
		ES601	POWER DISTRIBUTION RISER DIAGRAM AND DETAILS
		ES701	LIGHT FIXTURE SCHEDULE AND DETAILS
		ES702	PANELBOARD SCHEDULES
		ES801	TELECOMMUNICATION DETAILS
		ES802	ELECTRICAL DETAILS
		ES803	ELECTRICAL DETAILS

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SHEET LIST

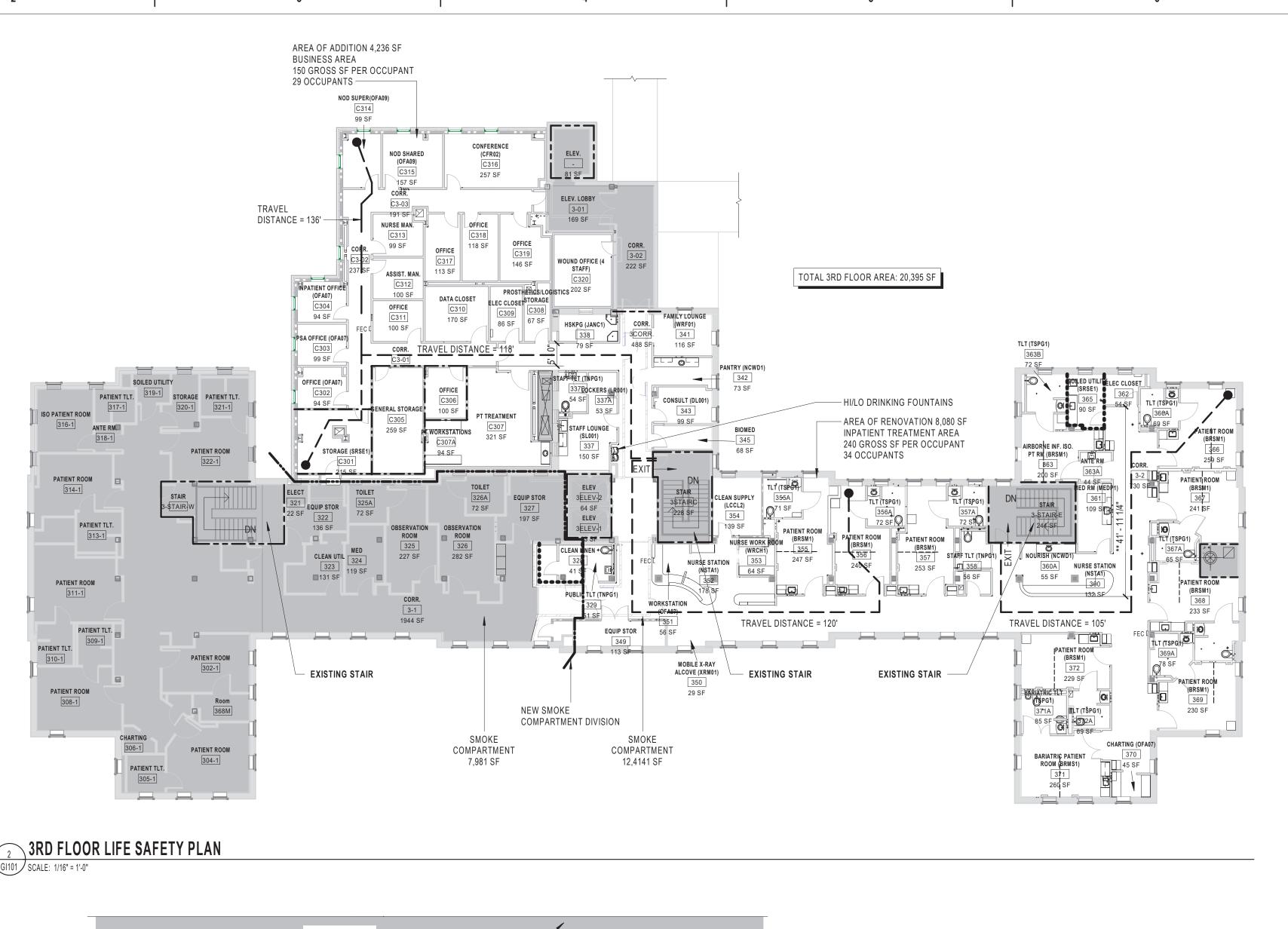
Project Number: 589-701	Approving IPT Members				
IPT Member	Print Service Representative Name	Signature	Date		
COR					
со					
FMS Chief			à		
Energy Engineer			y y		
M&O Chief					
BioMed Supervisor					
Surgery Administrative Officer					
Nurse Manager of Surgery					
Safety & Health Mgr.					
VA Police					
Infection Prevention			ė.		
Environmental Management Service					
Interior Design					
Pharmacy					
Logistics					
Office of Information & Technology					
Information System Security Officer					
Service Representative for Project Recipient					
Service Representative for Project Recipient					

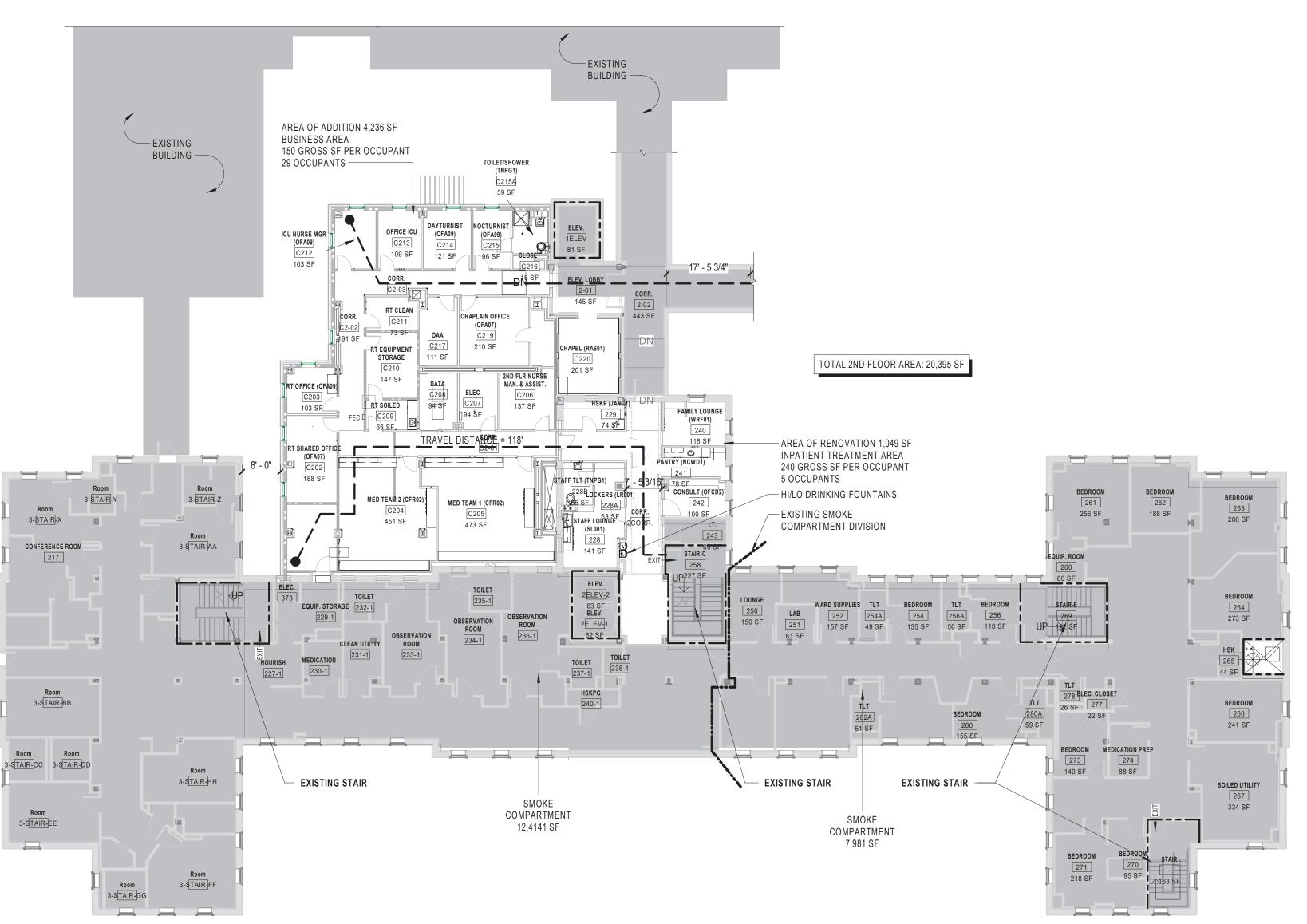
	CO	DNSULTANT	ARCHITECT/ENGI
	CMT 1041 PRO	Sultant: A CONSULTING ENGINEERS 1 MEETING STREET SPECT, KY 40059)-326-3085	A/E: GUIDON DESIGN INC. 1221 N PENNSYLVANIA STREET INDIANAPOLIS, IN 46202 (317)-800-6388
Revisions:	Date:		





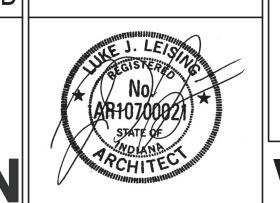
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rs	Approved:		Location WICHITA, KANSAS Issue Date 5/22/2020 Che JD	ecked	Drawn JDJ	Drawing Number G1000





2ND FLOOR LIFE SAFETY PLAN GI101 SCALE: 1/16" = 1'-0"

> CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Consultant: <u>A/E:</u> CMTA CONSULTING ENGINEERS **GUIDON DESIGN INC. 10411 MEETING STREET** 1221 N PENNSYLVANIA STREET PROSPECT, KY 40059 **INDIANAPOLIS, IN 46202** (502)-326-3085 (317)-800-6388 GUIDON



Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

PLANS

Drawing Title

CODE ANALYSIS AND LIFE SAFETY BID DOCUMENTS

Project Number Project Title 589-701 VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY WICHITA, KANSAS

1 & 1C **Drawing Number** Checked GI101 5/22/2020 JDF JDJ

CODE ANALYSIS - NFPA 101, INSTITUTIONAL HEALTHCARE CHAPTER 18 GENERAL: THIS SUMMARY OF CODE REQUIREMENTS IS BASED PRIMARILY ON NFPA 101 (LSC). DESIGN FEATURES NOT ADDRESSED BY NFPA 101 OR DOCUMENTS REFERENCED THEREIN SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE IBC OR AS OTHERWISE IDENTIFIED. FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS NFPA 101 OR A DOCUMENT REFERENCED BY NFPA 101, THE REQUIREMENTS OF NFPA 101 OR THE DOCUMENT REFERENCED BY NFPA 101 SHALL BE USED EXCLUSIVELY (THIS APPLIES EVEN IF THE IBC REQUIREMENTS ARE DIFFERENT). LOCAL CODES: AS AN AGENCY OF THE FEDERAL GOVERNMENT, VA IS NOT SUBJECT TO LOCAL IMPOSITION OF CODE ENFORCEMENT PROCEDURES (DRAWING REVIEWS, BUILDING PERMITS, INSPECTIONS, FEES, ETC.). VA MUST FUNCTION AS THE AUTHORITY HAVING JURISDICTION (AHJ) AND THUS HAS THE RESPONSIBILITY TO GUARD PUBLIC HEALTH AND SAFETY THROUGH ENFORCING ITS ADOPTED CODES.

CONFLICTS BETWEEN NATIONALLY RECOGNIZED CODES AND STANDARDS AND VA REQUIREMENTS – SHOULD A CONFLICT EXIST BETWEEN VA REQUIREMENTS AND VA ADOPTED NATIONALLY RECOGNIZED CODES AND STANDARDS, THE CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF VA. THE RESOLUTION OF THE CONFLICT SHALL BE MADE BY THE AUTHORITY HAVING JURISDICTION FOR VA TO ENSURE A CONSISTENCY SYSTEM WIDE.

THE 2018 EDITION OF THE LIFE SAFETY CODE, NFPA 101, HAS BEEN USED TO REVIEW THIS PROJECT FOR COMPLIANCE WITH THE FIRE AND LIFE SAFETY REQUIREMENTS FOR FEATURES NOT ADDRESSED BY NFPA 101 AND THE REFERENCED NATIONAL FIRE CODES, THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE HAS BEEN

THE PROJECT SCOPE INCLUDES TO VERTICALLY EXPAND BUILDING 1C TWO STORIES OVER A RECENTLY COMPLETED FIRST FLOOR EXPANSION. THE TWO ADDITIONAL FLOORS ARE BEING BUILT TO PROVIDE OFF UNIT PROGRAM SPACE FOR ADMINISTRATIVE, MEDICAL STAFF, RESPIRATORY THERAPY SUPPORT SPACE, PHYSICAL THERAPY ROOM FOR INPATIENTS, CHAPEL AND FAMILY SPACE. THIS OFF UNIT SPACE SUPPORTS THE IN-PROGRESS AND PROJECTED MEDICAL/SURGICAL INPATIENT UNITS' INTERIOR RENOVATION IN BUILDING 1. THIS PROJECT'S SCOPE OF WORK ALSO INCLUDES THE RENOVATION OF THE MED/SURG UNIT ON THE THIRD FLOOR, EAST WING OF BUILDING 1

THE CONSTRUCTION TYPE IS DETERMINED BASED UPON THE ALLOWABLE AREA AND HEIGHT REQUIREMENTS OF CHAPTER 5 OF THE 2018 IBC. CONSTRUCTION TYPE AND

MATERIALS SHALL BE PER CHAPTER 6 OF THE IBC FOR TYPE 1-B AND LSC TYPE II (222) CONSTRUCTION AS FOLLOWS:

1. OCCUPANCY TYPE: I-2 INSTITUTIONAL, IBC CHAPTER 3/LSC CHAPTER 18 HEALTHCARE 2. CONSTRUCTION TYPE: 1-B (IBC CHAPTER 5)

EXTERIOR:

3. FIRE RESISTIVE RATINGS TYPE 1-B CONSTRUCTION, CHAPTER 6 IBC/NFPA 101: NONCOMBUSTIBLE, 2-HOUR FIRE RESISTIVE (SEE SPRAY APPLIED FIRE RESISTIVE ASSEMBLIES SIMILAR TO UL X701) STRUCTURAL FRAME:

BEARING WALLS EXTERIOR: NONCOMBUSTIBLE, 2 -HOUR FIRE RESISTIVE INTERIOR: NONCOMBUSTIBLE, 2 -HOUR FIRE RESISTIVE NON-BEARING WALLS AND PARTITIONS

NONCOMBUSTIBLE, 0-HOUR FIRE RESISTIVE INTERIOR: NONCOMBUSTIBLE, 0-HOUR FIRE-RESISTIVE FLOOR: NONCOMBUSTIBLE, 2-HOUR FIRE RESISTIVE (SEE SPRAY APPLIED FIRE RESISTIVE ASSEMBLIES SIMILAR TO UL D703' ROOF: NONCOMBUSTIBLE, 2-HOUR FIRE RESISTIVE (SEE SPRAY APPLIED FIRE RESISTIVE ASSEMBLIES SIMILAR TO UL P701)

SHAFT ENCLOSURES 2-HOUR FIRE RESISTIVE >4 STORIES (IBC 713.4, LSC 12.3.6) SHAFT ENCLOSURES 1-HOUR FIRE RESISTIVE <4 STORIES (IBC 713.4, LSC 12.3.6)

4. STRUCTURAL DESIGN SHALL COMPLY WITH CHAPTER 16 OF THE IBC.

5. ALLOWABLE HEIGHT: **160** FT (IBC, TABLE 504.3) ACTUAL HEIGHT: 143'

9. OCCUPANCY SEPARATION: NONE REQUIRED.

6. ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLAN: 4 (IBC, TABLE 504.4) ACTUAL NUMBER OF STORIES: 4

7. ALLOWABLE AREA: BASED UPON 1-2 OCCUPANCY, 1-B CONSTRUCTION TYPE, AND FULLY SPRINKLED: ALLOWABLE AREA: UNLIMITED (IBC, TABLE 506.2) ACTUAL AREA:

8. BUILDING SEPARATION: BASED ON A 10'TO 30' FIRE SEPARATION DISTANCE A 1-HOUR FIRE RESISTANCE WALL RATING IS REQUIRED. (IBC, TABLE 602)

9. PER IBC 2018 TABLE 705.8: 45% OF THE EXTERIOR WALL IS PERMITTED TO HAVE UNPROTECTED OPENINGS IN A FULLY SPRINKLERED BUILDING THAT IS 10 TO LESS THAN 15 FEET FROM AN ADJACENT BUILDING. 25% OF THE EXTERIOR WALL IS PERMITTED TO HAVE UNPROTECTED OPENINGS IN A FULLY SPRINKLERED BUILDING THAT IS 5 TO LESS THAN 10 FEET FROM AN ADJACENT BUILDING. AT THE CLOSEST LOCATION, ABOUT 4% OF THE WALL WILL CONTAIN UNPROTECTED OPENINGS.

ADDITIONS SHALL BE SEPARATED FROM ANY EXISTING STRUCTURE NOT CONFORMING TO THE PROVISIONS WITHIN CHAPTER 19 BY A FIRE BARRIER HAVING NOT LESS THAN A 2-HOUR FIRE RESISTANCE RATING AND CONSTRUCTED OF MATERIALS AS REQUIRED FOR THE ADDITION. (LSC 18.1.1.4.1) SECTIONS OF HEALTH CARE FACILITIES SHALL BE PERMITTED TO BE CLASSIFIED AS OTHER OCCUPANCIES, PROVIDED THAT THEY MEET BOTH OF THE FOLLOWING

(1) THEY ARE NOT INTENDED TO PROVIDE SERVICES SIMULTANEOUSLY FOR FOUR OR MORE INPATIENTS FOR PURPOSES OF HOUSING, TREATMENT, OR CUSTOMARY ACCESS BY INPATIENTS INCAPABLE OF SELF-PRESERVATION. (2) THEY ARE SEPARATED FROM AREAS OF HEALTH CARE OCCUPANCIES BY CONSTRUCTION HAVING A MINIMUM 2-HOUR FIRE RESISTANCE RATING IN ACCORDANCE WITH CHAPTER 8.18.1.3.4 CONTIGUOUS NON-HEALTH CARE OCCUPANCIES. 10. MEANS OF EGRESS

 CLEAR WIDTH OF CORRIDORS SHALL BE CLEAR 8 FEET. AISLES, CORRIDORS, AND RAMPS IN ADJUNCT AREAS NOT INTENDED FOR THE HOUSING, TREATMENT, OR USE OF INPATIENTS SHALL BENT LESS THAN 44 IN. (1120 MM) IN CLEAR AND UNOBSTRUCTED WIDTH. CLEAR WIDTH OF DOORS SHALL BE CLEAR 42 INCHES FROM SLEEPING ROOMS; DIAGNOSTIC AND TREATMENT AREAS, SUCH AS X-RAY, SURGERY, OR PHYSICAL

CLEAR WIDTH OF DOORS SHALL BE CLEAR 32 INCHES

NOT LESS THAN 2 EXITS SHALL BE PROVIDED PER FLOOR. ADDITION OCCUPANCY LOAD: <500 THEREFORE 2 EXITS REQUIRED (LSC 7.4.1)

MAXIMUM TRAVEL DISTANCE, FULLY SPRINKLED: 200 FEET (LSC 18.2.6.2.1) COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FEET (LSC 18.2.5.3) DEAD END CORRIDORS SHALL NOT EXCEED 30 FEET. (LSC 18.2.5.2)

MEANS OF EGRESS SHALL BE ILLUMINATED PER 7.9. (LSC 18.2.6.2.1) EMERGENCY LIGHTING SHALL BE PER 7.9. (LSC 18.2.9)

EXIT SIGNAGE SHALL BE PROVIDED 7.10. (LSC 18.2.10) 11. WHERE GENERAL ANESTHESIA OR LIFE SUPPORT EQUIPMENT IS USED AND ESSENTIAL ELECTRICAL SYSTEM PER NFPA 99 SHALL BE PROVIDED.

12. HAZARDOUS AREAS, ANY HAZARDOUS AREAS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 8.7. AND THE AREAS DESCRIBED IN TABLE 18.3.2.1 SHALL BE PROTECTED AS INDICATED. (LSC 18.3.2.2)

TABLE 18.3.2.1 HAZARDOUS AREA PROTECTION:

1. CENTRAL/BULK LAUNDRIES LARGER THAN 100 FT2 (9.3 M2): 1 HOUR

ROOMS WITH SOILED LINEN IN VOLUME EXCEEDING 64 GAL (242 L): 1 HOUR STORAGE ROOMS LARGER THAN 50 FT2(4.6 M2) BUT NOT EXCEEDING 100 FT2 (9.3 M2) AND STORING COMBUSTIBLE MATERIAL SEE 18.3.6.3.11. STORAGE ROOMS LARGER THAN 100 FT2 (9.3 M2) AND STORING COMBUSTIBLE MATERIAL 1 HOUR

ROOMS WITH COLLECTED TRASH IN VOLUME EXCEEDING 64 GAL (242 L)1 HOUR† MINIMUM FIRE RESISTANCE RATING.

WALLS AND CEILINGS: INTERIOR FINISH FLAME SPREAD SHALL BE LIMITED PER CHAPTER 10.2 OF THE NFPA 101 TO CLASS A MATERIALS. (LSC 18.4.3.6.2) CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450. FLOORS: INTERIOR FLOOR FINISH SHALL BE CLASS I.

FABRIC DRAPERIES, CURTAINS (EXCLUDING SHOWER CURTAINS, BUT INCLUDING CUBICLE CURTAINS), AND OTHER LOOSELY HANGING FABRICS AND FILMS SERVING AS FURNISHINGS OR DECORATIONS IN HEALTH CARE OCCUPANCIES MUST MEET THE FLAME RESISTANCE REQUIREMENTS OF NFPA 701, STANDARD METHODS OF FIRE TESTS FOR FLAME-RESISTANT TEXTILES AND FILMS. UPHOLSTERED FURNITURE AND MATTRESSES. UPHOLSTERED FURNITURE AND MATTRESSES MUST ALSO MEET SPECIFIED REQUIREMENTS, BASED ON NFPA

260, NFPA 261, NFPA 266, 16 CFR 1632, ASTME E1537, AND ASTME E1590 14. EXTINGUISHMENTS REQUIREMENTS, PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER NFPA 10.

15. DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS.

 FIRE ALARM SYSTEM SHALL BE PROVIDED LSC, NFPA 70 (NEC) AND NFPA 72. (LSC 9.6.1) FIRE ALARM MAY BE BY MANUAL MEANS (LSC 18.3.4.2.1)(LSC 9.6.2)

OCCUPANT NOTIFICATION SHALL BE THROUGH AUTOMATIC MEANS PER 9.6.3. (LSC 18.3.4.3) SMOKE DETECTION SHALL BE PROVIDED PER NFPA 72.

EMERGENCY RESPONDER NOTIFICATION SHALL BE NOTIFIED BY ALARM AND DETECTION SYSTEM PER 9.6.4. (LSC 18.3.4.3.2)

16. FIRE SUPPRESSION: SPRINKLER SYSTEM: BUILDING IS REQUIRED TO BE SPRINKLED THROUGHOUT IN ACCORDANCE WITH NFPA 13.

THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH 2013 EDITION OF NFPA 13 AND THE SIXTH EDITION OF THE DEPARTMENT OF VETERANS AFFAIRS FIRE PROTECTION DESIGN MANUAL: MINIMUM DESIGN REQUIREMENTS:

ORDINARY HAZARD OCCUPANCY, GROUP 1: 0.15 GPM/FT2 OVER 1.500 FT2. HOSE STREAM ALLOWANCE: 250 GPM ALL OTHER AREAS SHALL BE PROTECTED AS:

STORAGE MECHANICAL AND ELECTRICAL ROOMS SHALL BE PROTECTED AS:

LIGHT HAZARD OCCUPANCY: 0.10 GPM/FT2 OVER 1,500 FT2.

HOSE STREAM ALLOWANCE: 100 GPM ALL SPRINKLERS WITHIN THE SMOKE ZONE SHALL BE QUICK RESPONSE SPRINKLERS.

17. CONSTRUCTION BARRIERS CONSTRUCTED ALONG MEANS OF EGRESS SHALL BE CONSTRUCTED AND MAINTAINED PER NFPA 241

**VARIANCES - SEE DISTANCE NOTED ON 3RD FLOOR BECAUSE THIS IS AN EXISTING MEDICAL CENTER AND IS NOT FEASIBLE OR COST PROHIBITIVE TO CHANGE THE LOCATION OF THE EXIT. IT IS PERMITTED TO EXCEED THE

BECAUSE THIS IS AN EXISTING MEDICAL CENTER.

KANSAS CITY, MO 64106 (816) 701-3035 OFFICE

30 FEET DISTANCE. BASED ON MY CONSULTATION WITH THE CENTRAL OFFICE SUBJECT MATTER EXPERT, A DEVIATION WAIVER IS NOT, REQUIRED TO BE SUBMITTED ERIC ROY SR., M.S., ED.S.P./T.ED VISN 15 SAFETY ENGINEER 1201 WALNUT STREET, SUITE 800

AISC 341-10 AISC 360-10 PCI MNL 120-10, DESIGN HANDBOOK

REGULATIONS, BELOW LISTING IS NOT COMPREHENSIVE.

ICC, INTERNATIONAL BUILDING CODES, 2018 EDITION (IBC)

GOVERNING CODES:

ASCE-07-10

ACI 318-11

ACI 530-11

NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2013 EDITION

REFER TO VA MANUAL PG-18-3 FOR ADDITIONAL CODES, STANDARDS, GUIDELINES AND

NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM, 2016 NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE

PROTECTION, 2016 EDITION NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCE, 2016 EDITION. NFPA 54 NATOINAL FUEL GAS CODE, 2015 EDITION

NFPA 70, NATIONAL ELECTRIC CODE, 2014 EDITION NFPA 72, NATIONAL FIRE ALARM CODE, 2016 EDITION NFPA 75, STANDARD FOR THE PROTECTION OF ELECTRICAL COMPUTER/DATA

PROCESSING EQUIPMENT, 2017 EDITION NFPA 77, RECOMMENDED PRACTICE ON STATIC ELECTRICITY, 2014 EDITION NFPA 80, STANDARD FOR FIRE DOORS AND FIRE WINDOWS, 2016 EDITION

NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING

SYSTEMS, 2015 EDITION. NFPA 92, STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION NFPA 99, STANDARD FOR HEALTHCARE FACILITIES, 2015 EDITION NFPA,99B, STANDARD FOR HYPOBARIC FACILITIES, 2015 EDITION NFPA 101, LIFE SAFETY CODE, 2015 EDITION

NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS NFPA 220, STANDARD TYPES OF BUILDING CONSTRUCTION, 2015 EDITION. NFPA 780, STANDARD FOR INSTALLATION OF LIGHTING PROTECTION SYSTEMS, 2017

NFPA 54 TYPE 2 CLOTHES DRYER UL 705 DEDPY, 2015 EDITION MOST RECENT EDITION OF NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900 ASHRAE 90.1-2016 HVAC SYSTEMS

ASHRAE 180 - 2012 VENTILATION FOR HEALTH CARE FACILITIES ASHRAE 62.1 - 2016 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY ASHRAE 1.1 - 2007 HVAC & R TECHNICAL REQUIREMENTS FOR COMMISSIONING

PROCESS ASHRAE 0 - 2013 COMMISSIONING PROCESS ASHRAE 55- 2013 THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY ASHRAE 15 – 2013 SAFETY STANDARD FOR REFRIGERATION SYSTEMS ANSI A117.1-2009 STANDARD ON ACCESSIBLE & USABLE BUILDINGS AND FACILITIES

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS ENERGY POLICY ACT OF 2005 (EPACT) EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY, AND TRANSPORTATION MANAGEMENT.

VA DESIGN MANUALS PG-18-10:

VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL) (HTTP://WWW.CFM.VA.GOV/TIL/).

VA MENTAL HEALTH FACILITIES DESIGN GUIDE, DECEMBER 2010 (REV. 08/01/2014) VA BARRIER FREE DESIGN GUIDE PG-18-13, ABAAS ARCHITECTURAL, AUGUST 1, 2014 ASBESTOS ABATEMENT, JULY 2011

CMP SCHEDULE AND RISK MANAGEMENT, VOL. 1 & 2, DECEMBER 2012 ELECTRICAL, DECEMBER 2015 ENERGY SUSTAINABILITY, MAY 2014 FOLLIPMENT LANGUARY 2006

ESTIMATING, MARCH 8, 2011 NFPA INTERIM GUIDANCE FOR PROJECTS, PG-18-17, SEPTEMBER 30, 2010 FIRE PROTECTION, SEVENTH EDITION REVISED DECEMBER 2015 HVAC FOR NEW, REPLACEMENT, ADD. AND REN. OF EXIST. CA FACILITIES, MARCH 2011 INTERIOR DESIGN, MAY 2008 PHYSICAL SECURITY DESIGN MANUAL, JANUARY 2015 PLUMBING, NOVEMBER 2014

STRUCTURAL, FEBRUARY 1, 2014 WAY FINDING AND SIGNAGE, INTERIOR, DECEMBER 2012 SEISMIC DESIGN REQUIREMENTS, H-18-8, AUGUST 2013 ENVIRONMENTAL PLANNING GUIDANCE PG-18-17 NEPA INTERIM GUIDELINES FOR

PROJECTS SEPTEMBER 30, 2010 ELEVATOR DESIGN MANUAL, AUGUST 2016 EPA GUIDELINES CHECKLIST

LIFE SAFETY PLAN LEGEND

-----1 HR - FIRE SEPARATION 2 HR - FIRE SEPARATION ____ SMOKE RESISTIVE HAZARDOUS AREA ------SMOKE COMPARTMENT DIVISION ______ EGRESS PATH **EXIT SEPARATION DISTANCE** _----

-----DIAGONAL DISTANCE FIRE EXTINGUISHER CABINET EXIT EGRESS EXIT SIGNAGE

ADDITION — - AREA OF RENOVATION 2ND FLOOR ADDITION — - AREA OF RENOVATION 2ND FLOOR SHADE INDICATES EXISTING AREA BEYOND PRIMARY SCOPE OF

KEYPLAN ISOMETRIC

BUILDING 1C —

BUILDING 1 -

3RD FLOOR

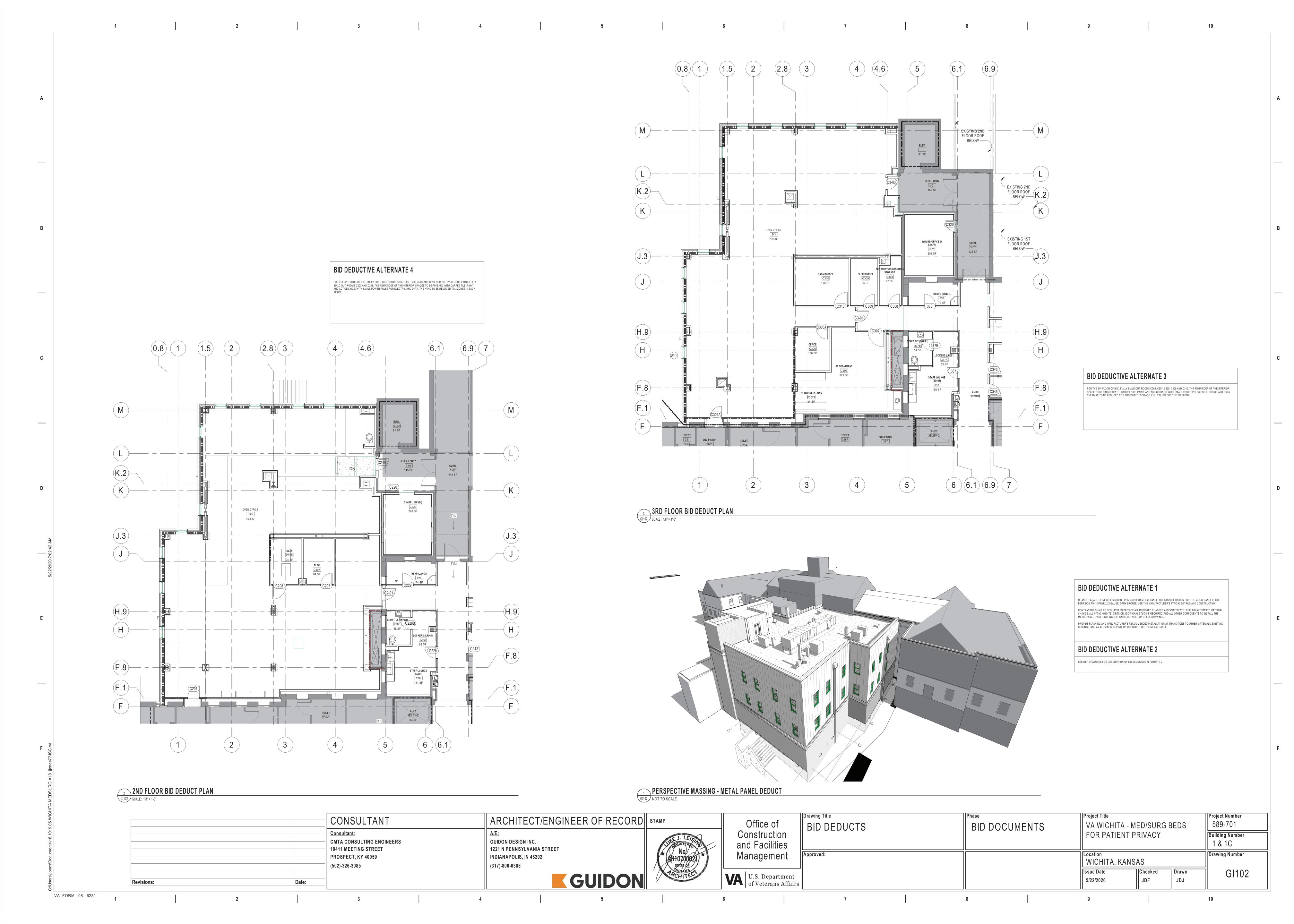
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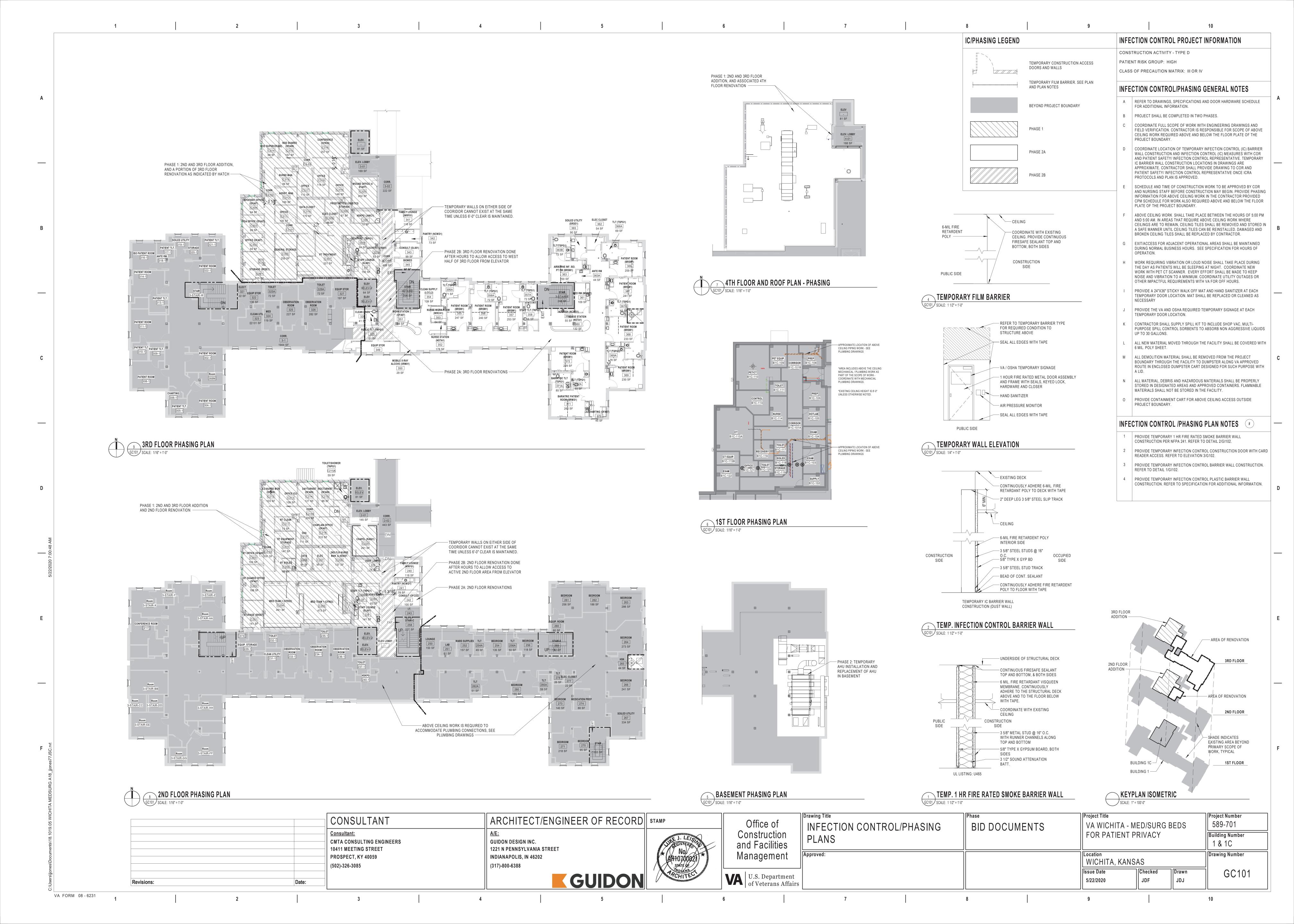
WORK, TYPICAL

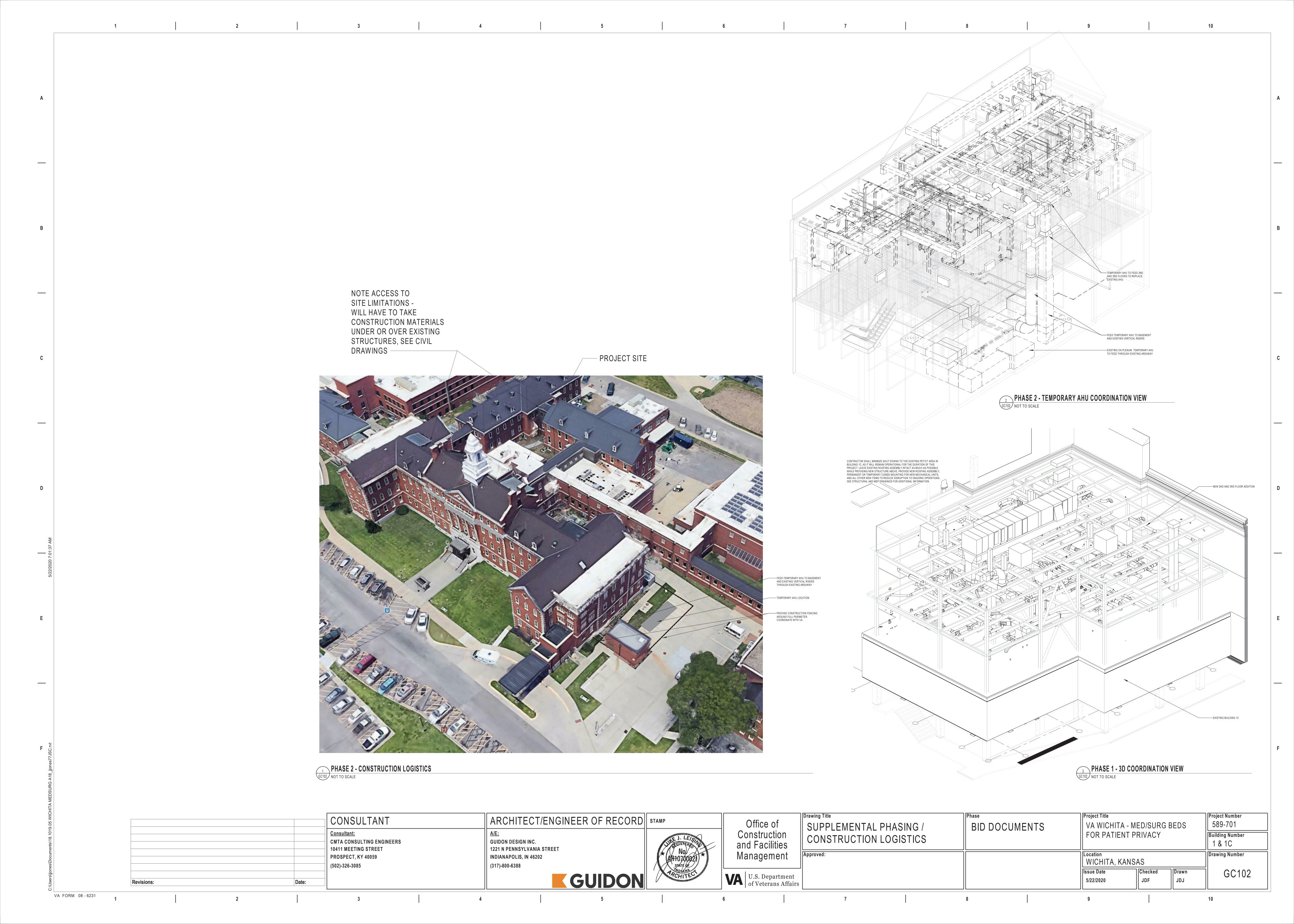
1ST FLOOR

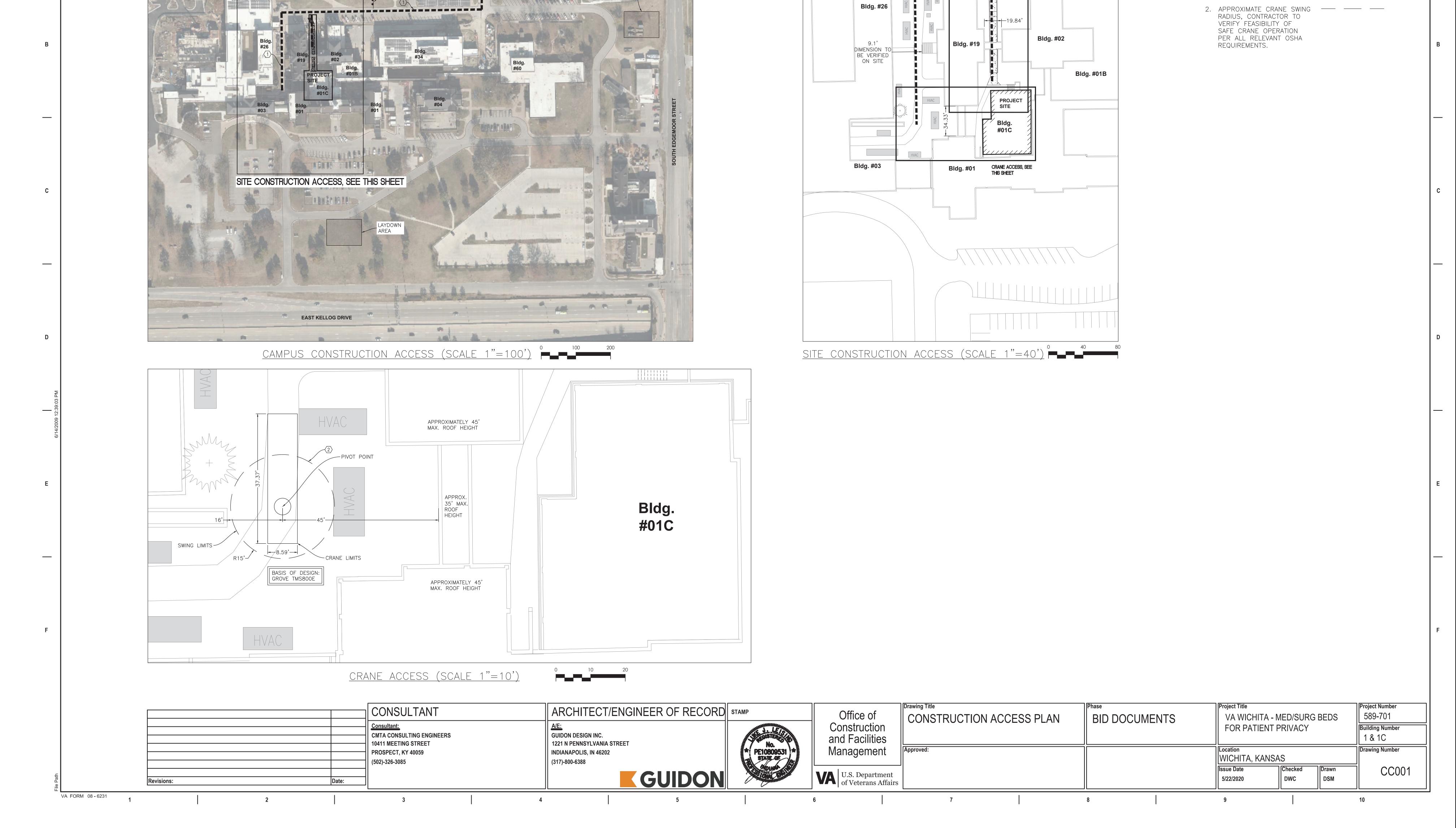
VA FORM 08 - 6231

Revisions:









○ SITE PLAN KEYNOTES

1. CONSTRUCTION ACCESS

GROUND LEVEL

ACCESS, SEE SHEET C002 ROUTE — THIS ROUTE IS SHARED WITH REGULAR DELIVERY TRUCK ACCESS,

DO NOT BLOCK AT ANY

TIME WITHOUT WRITTEN

APPROVAL FROM THE COR

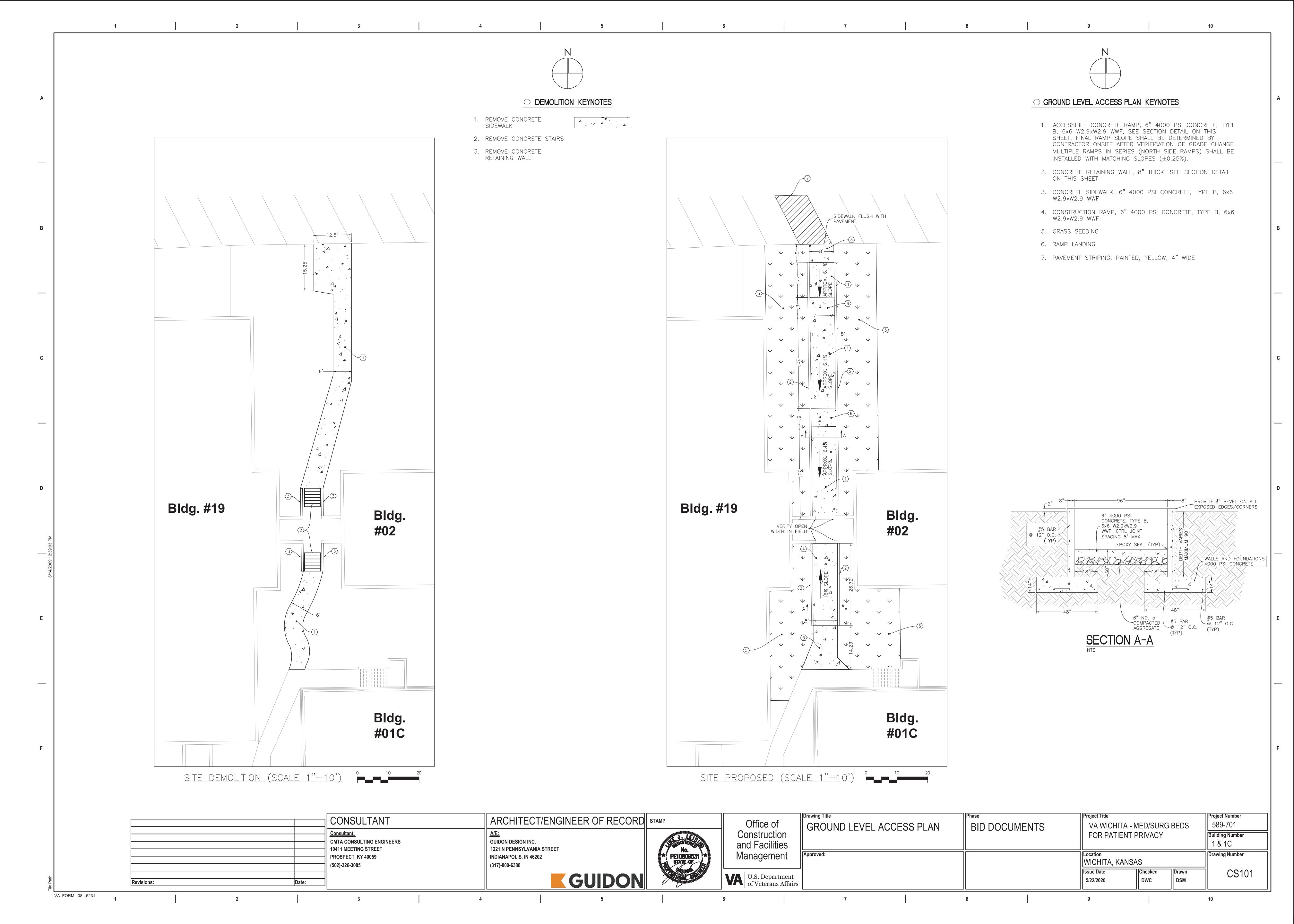
CONSTRUCTION ACCESS

JOB TRAILER LOCATION

EAST WATERMAN STREET

CONSTRUCTION AND
-SAFETY SIGNAGE PER

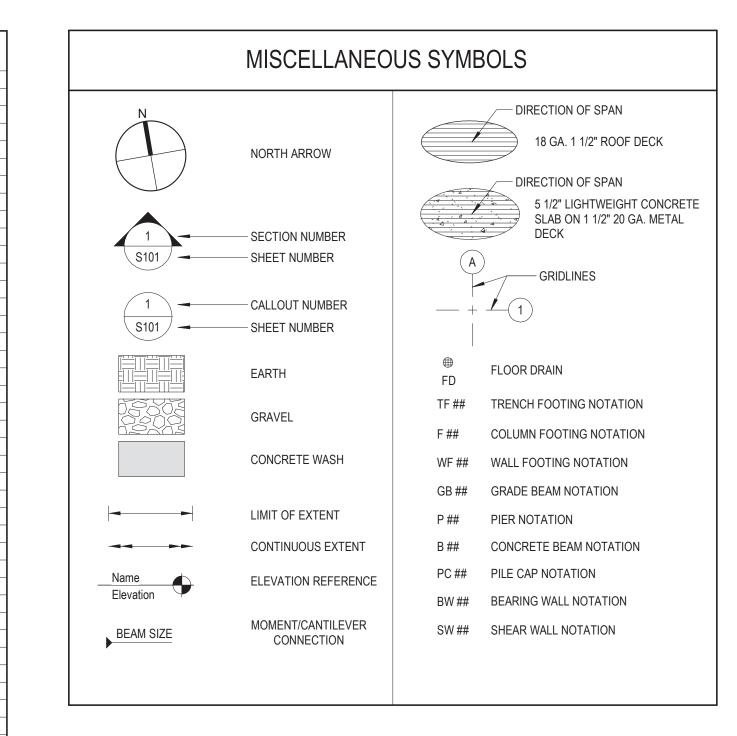
VA REQUIREMENTS

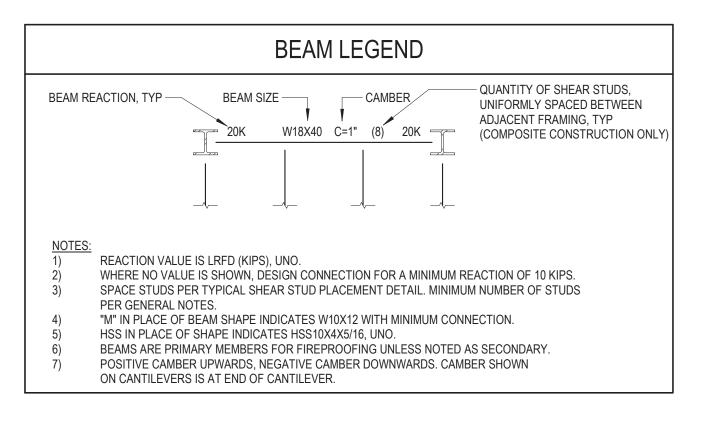


ARCHITECT/ENGINEER JOINT AMERICAN CONCRETE INSTITUTE KNEE BRACE AUGER CAST PILE ADDITIONAL 1,000 POUNDS ADJACENT KNOCK-OUT KIPS PER SQUARE INCH AGGREGATE AMERICAN INSTITUTE OF STEEL CONSTRUCTION ANGLE OR LENGTH ALTERNATE LABRATORY AMERICAN NATIONAL STANDARDS INSTITUTE POUND APPROXIMATE LINEAL FOOT ANCHOR ROD LINEAL, LINEAR ARCHITECTURAL LONG LEG HORIZONTAL AMERICAN SOCIETY FOR TESTING AND MATERIALS LONG LEG VERTICAL AMERICAN WELDING SOCIETY LONGITUDINAL **BOTTOM OF** LOW POINT BALANCE LONG SLOTTED HOLE LIGHT WEIGHT BUILDING MASONRY MATERIAL **BLOCK** BLOCKING MAXIMUM MACHINE BOLT **BEAM** BOTTOM MISCELLANEOUS CHANNEL **BEARING** MECHANICAL BRACKET MEMBRANE BETWEEN MECHANICAL/ ELECTRICAL/ PLUMBING STANDARD CHANNEL MANUFACTURER CANTILEVER MINIMUM MISCELLANEOUS CENTER TO CENTER COLD FORMED MASONRY OPENING CENTER OF GRAVITY MULTIPLE CAST-IN-PLACE NOT APPLICABLE CONTROL JOINT OR CONSTRUCTION JOINT NUMBER COMPLETE JOINT PENETRATION NOMINAL CENTERLINE NEAR SIDE CLEARANCE, CLEAR NOT TO SCALE CONCRETE MASONRY UNIT ON CENTER COLUMN OUTSIDE DIAMETER CONCRETE OUTSIDE FACE CONNECTION OVERFLOW DRAIN CONSTRUCTION OVERHEAD CONTINUOUS OPENING CONTRACTOR OPPOSITE CENTER OPPOSITE HAND CENTERED ORIGINAL **CUBIC FEET** OVERSIZED HOLE CUBIC INCH PIER CAP OR PRECAST CUBIC YARD CONCRETE WALL PERIMETER DOUBLE PERMANENT PERPENDICULAR DEMOLITION, DEMOLISH PARTIAL JOINT PENETRATION DEPARTMENT **DETAIL** POUNDS PER LINEAL FOOT DIAMETER PLYWOOD DIAGONAL PREFABRICATED DIAPHRAGM PRELIMINARY DIMENSION PREPARATION, PREPARE DOWN PROJECTION PRESTRESSED DRILLED PIER OR DEEP POUNDS PER SQUARE FOOT DRAWING POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER DOWELS POST-TENSIONED EACH FACE **EXPANSION JOINT** ROOF DRAIN ELEVATION REFERENCE ELECTRICAL REINFORCEMENT, REINFORCE ENCLOSURE REQUIRED **ENGINEER** ROUGH OPENING EDGE OF DECK SCHEDULE EDGE OF JOIST SECTION SQUARE FEET EDGE OF SLAB **EQUAL** SHEET EQUIPMENT SIMILAR SLOPE EACH SIDE SLOPE DOWN EACH WAY **EXISTING** SLOPE UP EXPANSION SLAB-ON-GRADE EXTERIOR SHEET PILING FROM ADJACENT BEAM SPACES, SPACE FLOOR DRAIN SPECIFICATIONS FOUNDATION STAINLESS STEEL FLANGE SHORT SLOTTED HOLE FLOOR STANDARD FOOTING STEP STIFFENER STEEL FOOTING STRUCTURAL FOOTING DRAIN SYMMETRICAL FIELD VERIFY TOP AND BOTTOM GAUGE TOP OF GALVANIZED TOP OF GRADE BEAM MECHANICAL TENSION BUTT SPLICE GRADE BEAM GROUND TEMPERATURE GIRDER TRUSS TRENCH FOOTING HEADED ANCHOR STUD THROUGH TRANSVERSE HORIZONTAL TYPICAL HIGH POINT UNDERWRITERS' LABORATORY INC. HOLLOW STRUCTURAL SECTION UNLESS NOTED OTHERWISE HIP TRUSS ULTRA-SONIC TEST HEATING, VENTILATION, AIR CONDITIONING VERTICAL INSIDE DIAMETER WIDE FLANGE INSIDE FACE WITHOUT INCLUDE WOOD INFORMATION WALL FOOTING INSULATION WORK POINT INTERIOR WELDED WIRE FABRIC JOIST BEARING

STRUCTURAL ABBREVIATIONS

STRUCTURAL ABBREVIATIONS





SHEET LIST

STRUCTURAL ABBREVIATIONS AND SYMBOLS

EXISTING ROOF - SECOND FLOOR SLAB PLAN

STRUCTURAL GENERAL NOTES

THIRD FLOOR FRAMING PLAN

BRACE ELEVATIONS AND DETAILS

ROOF FRAMING PLAN

BUILDING ELEVATIONS

SECTIONS AND DETAILS

SECTIONS AND DETAILS

ISOMETRICS

SHEET NAME

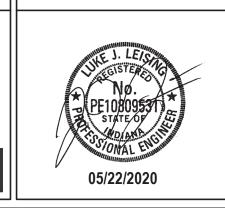
SHEET NUMBER

MATERIAL	OPENING WIDTH	LINTEL	
BRICK/STONE	0'-0" TO 3'-4"	L4x4x5/16 LLV	
	3'-4" TO 10'-0"	6x4x5/16 LLV	
NOTES: 1. LINTELS TO BEAR A MIN. 8" ON EITHER SIDE OF OPENING			

Consultant: CMTA CONSULTING ENGINEERS, INC 10411 MEETING STREET PROSPECT, KY 40059 (502) 326-3085	A G 1: IN (3 M
	CMTA CONSULTING ENGINEERS, INC 10411 MEETING STREET PROSPECT, KY 40059 (502) 326-3085

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ARCHITECT/ENGINEER OF RECORD STAMP **GUIDON DESIGN INC. 1221 N PENNSYLVANIA STREET INDIANAPOLIS, IN 46202** (317) 800-6388 MARK VANDERWOUDE



Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title STRUCTURAL ABBREVIATIONS	Phase BID DOCUMENTS	Project Title VA WICHITA - MED/SURG BEDS FOR PATIENT PRIVACY			Project Number 589-701
AND SYMBOLS					Building Number 1 & 1C
Approved:		Location WICHITA, KAN	Location WICHITA, KANSAS		Drawing Number
		Issue Date 05/22/2020	Checked LKL	Drawn WJT	SI001

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS.

THE GENERAL NOTES ON THE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE FULL WRITTEN MATERIAL SPECIFICATIONS (IF ANY) FOR THE PROJECT. IF A DISCREPANCY OCCURS BETWEEN THE NOTES AND THE FULL SPECIFICATIONS, THE MORE STRINGENT

NO PENETRATIONS THROUGH STRUCTURAL ELEMENTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

CONTRACTOR TO COORDINATE ALL EQUIPMENT, ROOF DRAINS, CHASES, AND OTHER ITEMS CONNECTED TO THE STRUCTURE BEFORE FABRICATION BEGINS.

CONCRETE MIX DESIGN SUBMITTAL

THE CONTRACTOR SHALL SUBMIT FOR THE REVIEW OF THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETEOTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. MIX DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING INFORMATION:

- MIX DESIGN NUMBER OR UNIQUE IDENTIFICATION AND INTENDED LOCATION OF PLACEMENT.
- CEMENT TYPE, PROPORTION AND NAME OF MANUFACTURER. FLY ASH PROPORTION (WHEN USED). LABORATORY ANALYSIS CERTIFICATION. AND NAME AND LOCATION OF SUPPLIER. COURSE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
- FINE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER. MIXING WATER PROPORTION AND SOURCE.
- ADMIXTURE DOSAGES, PRODUCT NAME(S) AND MANUFACTURER NAME(S).
- FIBER REINFORCEMENT DOSAGE (WHEN USED), PRODUCT NAME AND MANUFACTURER NAME. DESIGN 28-DAY COMPRESSIVE STRENGTH (F'C).
- DESIGN SLUMP RANGE
- DESIGN AIR-ENTRAINMENT (FOR CONCRETE REQUIRING ENTRAINED AIR).
- STATISTICAL ANALYSIS OF LABORATORY STRENGTH TEST DATA IN ACCORDANCE WITH "STANDARD DEVIATION" DETERMINATION OUTLINED IN ACI 318.

SHOP DRAWING SUBMITTALS

THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS TO ENABLE HIM TO FABRICATE, ERECT AND CONSTRUCT ALL PARTS OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THESE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT OF WORK.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. DRAWINGS SUBMITTED WITHOUT CONTRACTOR'S REVIEW WILL BE RETURNED UNCHECKED.

SUBMIT ELECTRONIC VERSIONS OF SHOP DRAWINGS. SUBMIT SHOP DRAWINGS IN PDF FORMAT.

SUBMIT SHOP DRAWINGS FOR EACH OF THE FOLLOWING ITEMS:

- STRUCTURAL STEEL (INCLUDING DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED FOR ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS)
- PRECAST CONCRETE COMPONENTS (PRECAST LINTELS, ARCHITECTURAL PRECAST)

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW, CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES, AND PATTERNS AS A BASIS OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURER'S EQUIVALENT TO COLORS, FINISHES, TEXTURES, AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL

SUBMIT ELECTRONIC VERSIONS OF PRODUCT DATA IN PDF FORMAT TO THE STRUCTURAL ENGINEER AND COR FOR REVIEW.

- FIBER REINFORCEMENT FOR CONCRETE
- CONCRETE REINFORCEMENT DIAMOND PLATE DOWELS FOR SLABS ON GRADE

SAMPLES, AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

PROTECTED FROM DUST, DIRT, AND DEBRIS ACCUMULATION AT ALL TIMES.

- CONCRETE CURING COMPOUND
- CONCRETE JOINT SEALANT WATER STOPS
- MASONRY JOINT REINFORCEMENT EXPANSION ANCHORS
- ADHESIVE ANCHORS NON-SHRINK GROUT
- COLD FORMED METAL STUDS (EXTERIOR ONLY)

RENOVATION (EXISTING CONDITIONS)

INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM DRAWINGS THAT WERE PREPARED FOR THE WAR DEPARTMENT, ENTITLED VETERANS ADMINISTRATION HOSPITAL, DATED 11-12-1949, AND SPS BASEMENT ADDITION DATED

WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

WHERE NEW WORK IS TO BE FITTED TO OLD WORK. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD. AND REPORT ANY ERRORS OR DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY

EXISTING MATERIALS TO BE REMOVED AND REINSTALLED AS PART OF THE PROJECT, THAT BECOME DAMAGED, SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL QUALITY AND APPEARANCE, AT THE CONTRACTORS EXPENSE.

ALL WORK SHALL BE PREFORMED WITHOUT DAMAGE TO ADJACENT RETAINED WORK. ADJACENT EXISTING CONSTRUCTION SHALL BE

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CEMENT SHALL CONFORM TO ASTM C150, TYPE I, UNO.

FLY ASH SHALL CONFORM TO ASTM C618. CLASS C OR F. THE RATIO OF THE AMOUNT (BY WEIGHT) OF FLY ASH TO TOTAL

CEMENTITIOUS MATERIALS IN THE MIX SHALL NOT EXCEED 25 PERCENT.

NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33. WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE

WITH OTHER ADMIXTURES. CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS SHALL NOT BE USED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 306R, COLD WEATHER CONCRETING.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 305R, HOT WEATHER CONCRETING. USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE

STRUCTURAL ENGINEER FOR REVIEW. SLUMP FOR PUMPED CONCRETE SHALL BE MEASURED AT POINT OF DISCHARGE.

LIGHTWEIGHT CONCRETE SHALL BE USED IN THE FOLLOWING AREAS AND SHALL

HAVE THE PROPERTIES AS SHOWN BELOW: SLABS ON STEEL DECK

COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI

MAXIMUM SLUMP: 4 INCHES

- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 564 LB./CU. YD. MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS
- ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP). MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
- MAXIMUM LIGHTWEIGHT COARSE AGGREGATE SIZE: 3/4 INCH

AIR CONTENT: 4-6%

CONCRETE SLABS ON METAL DECK

UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONCRETE SLABS ON METAL DECK SHALL BE PLACED AS REQUIRED TO MAINTAIN A CONSTANT SLAB THICKNESS.

CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITIES AND SHALL INCLUDE THE COST OF ALL REQUIRED SLAB-ON-DECK CONCRETE IN THE BID PRICE.

PRIOR TO PLACEMENT OF CONCRETE SLABS ON METAL DECK, THE CONTRACTOR SHALL CAREFULLY REVIEW THE ELEVATIONS OF THE STRUCTURAL STEEL FRAMING, INCLUDING CAMBERED MEMBERS, FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES (SUCH AS IMPROPER CAMBER, IMPROPER STEEL ELEVATIONS, ETC.) IMMEDIATELY AND SHALL NOT BEGIN CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL

ACTUAL CONCRETE SLAB THICKNESS SHALL NOT BE LESS THAN THE INDICATED NOMINAL THICKNESS AT ANY LOCATION. IF ANY CONDITION IS DISCOVERED THAT WOULD PREVENT PLACEMENT OF CONCRETE TO THE NOMINAL THICKNESS; CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

SLABS ON METAL DECK SHALL RECEIVE A SMOOTH TROWEL FINISH, AND BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM

FF = 25 FF = 20LOCAL VALUES:

CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISSIPATING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C309. ALL SCUFFS OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY. OTHER REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS:

ACI 301, ACI 315, ACI 318 AND ACI DETAILING MANUAL (SP66).

UNLESS A GREATER AMOUNT OF COVER IS INDICATED ON THE DRAWINGS, PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES #6 BARS AND LARGER EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER EXPOSED TO EARTH OR WEATHER: 1-1/2 INCHES BEAM AND COLUMN TIES, STIRRUPS AND SPIRALS: 1-1/2 INCHES ELEVATED SLAB BARS NOT EXPOSED TO EARTH OR WEATHER: 3/4 INCH

REINFORCING STEEL SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.

WHERE LAP SPLICE LENGTHS ARE NOT SHOWN OR NOTED, PROVIDE A CLASS "B" LAP.

ALL 90 DEGREE AND 180 DEGREE BENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT CORNERS OF ALL WALLS AND GRADE BEAMS. LAP SPLICE CORNER BARS WITH STRAIGHT BARS.

UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE 2-#5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO THE SIDES OF THE OPENING AND EXTEND 24" BEYOND CORNERS.

WELDED WIRE FABRIC

WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE SPACE PLUS 2 INCHES.

WELDED WIRE FABRIC SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE:

SLABS ON METAL DECK: WWF 6x6 w2.9xw2.9 3/4 INCH DOWN FROM TOP OF SLAB.

CONCRETE TESTING

MAKE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH DAY'S POUR AND FOR EACH 100 CUBIC YARDS. EACH SET SHALL INCLUDE ONE SPECIMEN TESTED AT 7 DAYS, 2 SPECIMENS TESTED AT 28 DAYS AND ONE SPECIMEN RETAINED IN RESERVE TO BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. SPARE CYLINDER MAY BE DISCARDED 90 DAYS AFTER CASTING

DIRECTED OTHERWISE BY THE STRUCTURAL ENGINEER. THIS SET OF TEST CYLINDERS SHALL BE PROTECTED AGAINST FREEZING. WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES DURING THE COURSE OF A CONCRETE POUR OR SUBSEQUENT CURING PROCESS, AN ADDITIONAL SET OF CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED. THESE CYLINDERS

SHALL BE STORED IMMEDIATELY ADJACENT TO, AND CURED UNDER THE SAME CONDITIONS AS THE BUILDING CONCRETE. SPECIAL CURING BOXES ARE NOT PERMITTED FOR THESE TEST CYLINDERS. FORWARD COPIES OF TEST RESULTS TO THE ARCHITECT, STRUCTURAL ENGINEER, READY-MIX SUPPLIER AND CONTRACTOR WITHIN 24

HOURS AFTER TESTING.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE CARBON STEEL ANCHORS AS MANUFACTURED BY HILTI FASTENING SYSTEMS OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER AND SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S

EXPANSION ANCHORS SHALL NOT BE INSTALLED IN CONCRETE UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28 DAY COMPRESSIVE

ADHESIVE ANCHORS

ADHESIVE ANCHORS SHALL BE HILTI "HIT HY200" FOR SOLID SUBSTRATE AND HILTI "HIT HY70" FOR HOLLOW SUBSTRATE OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNLESS NOTED OTHERWISE ON PLANS. ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

MINIMUM EMBEDMENT DEPTH SHALL BE 8 BOLT DIAMETERS UNLESS NOTED OTHERWISE.

NON-SHRINK GROUT

GROUT SHALL BE A NON-METALLIC. SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRD-C621), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 5,000 PSI IN 28 DAYS.

MASTIC COATING

MASTIC COATING FOR PROTECTION OF INDICATED ITEMS SHALL BE BITUMASTIC 50 COAL TAR MASTIC BY CARBOLINE OR EQUIVALENT SUBSTITUTE APPROVED BY THESTRUCTURAL ENGINEER, INSTALL AT LOCATIONS INDICATED ON DRAWINGS.

UNLESS NOTED OTHERWISE, APPLY MASTIC TO A COATING THICKNESS OF 18 MILS. PROVIDE FULL COVERAGE OVER ITEMS INDICATED TO RECEIVE COATING.

STRUCTURAL STEEL

STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION WITH AMENDMENTS, AND THE AISC 303 CODE OF STANDARD PRACTICE FOR

STEEL BUILDINGS AND BRIDGES, LATEST EDITION WITH AMENDMENTS. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, 50 KSI.

STRUCTURAL STEEL PLATES AND ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A36, UNLESS NOTED

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B.

STEEL STUDS SHALL CONFORM TO ASTM A108.

STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE

BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION. BOLTED CONNECTIONS FOR STRUCTURAL STEEL MEMBERS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS, UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION, EXCEPT BOLTED CONNECTIONS IN BRACE ELEMENTS ARE TO BE FULLY PRETENSIONED WITH CLASS A FAYING SURFACES.

WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE FOR STEEL ANSI/AWS D1.1.

WELDED CONNECTIONS USING ASTM A992 STEEL AS A BASE METAL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, OTHER WELDED CONNECTIONS MAY BE MADE WITH STANDARD E70XX

STRUCTURAL STEEL THAT RECEIVES FINISH PAINT SHALL BE SHOP-PRIMED WITH A RUST-INHIBITING PRIMER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRIMER IS COMPATIBLE WITH FINISH COAT SYSTEM SPECIFIED BY THE ARCHITECT, COORDINATE FINISH PAINTING REQUIREMENTS WITH THE ARCHITECT.

STRUCTURAL STEEL THAT IS NOT EXPOSED IN THE FINISHED CONSTRUCTION AND DOES NOT RECEIVE FINISH PAINT SHALL NOT BE SHOP-PRIMED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

STRUCTURAL STEEL NOTED TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM A123.

DO NOT PAINT OR GALVANIZE THE FOLLOWING SURFACES:

- 1. SURFACES TO BE WELDED. 2. SURFACES TO RECEIVE BOLTED SLIP-CRITICAL CONNECTIONS.
- SURFACES TO RECEIVE SHEAR STUD CONNECTIONS. 4. SURFACES TO RECEIVE SPRAYED-ON FIREPROOFING.

ALL ABRASIONS TO GALVANIZED SURFACES OR SURFACES TO RECEIVE AN ARCHITECTURAL FINISH COAT SHALL BE TOUCHED-UP AFTER ERECTION IS COMPLETE. FOR PAINTED STEEL, USE A PRIMER EQUIVALENT TO THE SHOP PAINT. FOR GALVANIZED STEEL, USE A ZINC-RICH COLD-GALVANIZING PAINT.

DESIGN CONNECTIONS NOT SHOWN IN ACCORDANCE WITH THE ASD SPECIFICATION AND MANUAL OF STEEL CONSTRUCTION. UNLESS NOTED OTHERWISE ON THE DRAWINGS, DESIGN BEAM CONNECTIONS NOT SHOWN, TO SUPPORT A MINIMUM OF A 10 KIP SHEAR REACTION. PROVIDE NO LESS THAN 2 BOLTS IN ANY SINGLE LINE OF BOLTS, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.

PROVIDE L4X4X1/4 FRAMED OPENINGS FOR ALL ROOF PENETRATIONS 12 INCHES OR LARGER ALONG ANY SIDE, UNLESS LARGER FRAMING IS INDICATED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR PENETRATIONS. COORDINATE FRAMED OPENING SIZES AND LOCATIONS WITH THE MECHANICAL AND PLUMBING CONTRACTORS.

GALVANIZE ALL EXPOSED STEEL

STEEL ROOF DECK

FIREPROOFING

PROVIDE AND ERECT STEEL DECK IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S SPECIFICATIONS AND

CODE OF STANDARD PRACTICE. DECK MANUFACTURER SHALL PROVIDE ALL ROOF DECK ACCESSORIES, INCLUDING CLOSURES, SUPPLEMENTARY FRAMING, AND SUMP

PANS, WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS. FASTEN ROOF DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS

ROOF DECK SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION.

PROVIDE STEEL ROOF DECK WITH FINISH AS INDICATED ON THE DRAWINGS.

STEEL FLOOR DECK PROVIDE AND ERECT STEEL DECK IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S SPECIFICATIONS AND

CODE OF STANDARD PRACTICE. DECK MANUFACTURER SHALL PROVIDE ALL FLOOR DECK ACCESSORIES, SUCH AS EDGE FORMS, CLOSURES, FILLERS AND POUR STOPS

FASTEN FLOOR DECK TO STEEL SUPPORTS AS INDICATED ON THE DRAWINGS. PERFORM WELDING IN ACCORDANCE WITH ANSI/AWS

STEEL FLOOR DECK IS INTENDED TO BE INSTALLED IN AN UNSHORED CONDITION UNLESS NOTED OTHERWISE. DECK SUPPLIER SHALL REVIEW ALL SPAN CONDITIONS AND CONFIRM THAT THE SUPPLIED PRODUCT IS SUFFICIENT TO SAFELY SUPPORT THE WET WEIGHT OF

FLOOR DECK UNITS SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION.

CONCRETE AND ASSOCIATED CONSTRUCTION LIVE LOADS WITHOUT THE NEED FOR SHORING

PROVIDE INTERIOR STEEL FLOOR DECK WITH FINISH AS INDICATED ON THE DRAWINGS. PROVIDE FLOOR DECK SUPPORTING EXTERIOR SLABS WITH A GALVANIZED FINISH IN ACCORDANCE WITH ASTM A924 G90.

PROVIDE 2-HOUR RATED FIREPROOFING ON UNDERSIDE OF STEEL FLOOR AND ROOF DECKS. SEE ARCH FOR ASSEMBLY

FOR A COMPLETE INSTALLATION. WHETHER OR NOT SUCH ITEMS ARE DETAILED ON THE CONTRACT DOCUMENTS.

DESIGN DATA

THE BUILDING STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING

SEE LOAD MAPS FOR FLOOR LOADING CRITERIA.

SNOW LOAD DESIGN DATA GROUND SNOW LOAD (PG) = 30 PSF LOW-SLOPE ROOF SNOW LOAD (PF) = 25 PSF

SNOW EXPOSURE FACTOR (CE) = 1.0 THERMAL FACTOR (CT) = 1.0 SNOW LOAD IMPORTANCE FACTOR (IS) = 1.25

WIND LOAD DESIGN DATA

BASIC WIND SPEED (3-SECOND GUST) = 115 MPH

WIND LOAD IMPORTANCE FACTOR (IW) = 1.0 WIND EXPOSURE = C WIND DESIGN PRESSURE (P) = VARIES WITH HEIGHT AND LOCATION

EARTHQUAKE DESIGN DATA

SHORT PERIOD SPECTRAL RESPONSE (SS) = 0.109 1-SECOND SPECTRAL RESPONSE (S1) = 0.054

SEISMIC IMPORTANCE FACTOR (IE) = 1.5 OCCUPANCY CATEGORY = IV

SEISMIC DESIGN CATEGORY = C SITE CLASSIFICATION = D

SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT (SDS) = 0.116 1-SECOND SPECTRAL RESPONSE COEFFICIENT (SD1) = 0.087

DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS ANALYSIS PROCEDURE UTILIZED = EQUIVALENT LATERAL FORCE PROCEDURE

BASIC STRUCTURAL SYSTEM / SEISMIC RESISTING SYSTEM: H - STEEL SYSTEMS NOT SPECIFICALLY

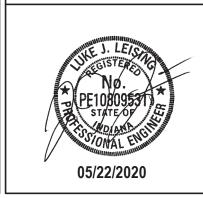
RESPONSE MODIFICATION COEFFICIENT (R) = 3.0

SEISMIC RESPONSE COEFFICIENT (CS) = 0.089

Consultant: **10411 MEETING STREET** PROSPECT, KY 40059 (502) 326-3085 Revisions:

ARCHITECT/ENGINEER OF RECORD | STAMP CONSULTANT <u>A/E:</u> CMTA CONSULTING ENGINEERS, INC **GUIDON DESIGN INC.**

> **1221 N PENNSYLVANIA STREET INDIANAPOLIS, IN 46202** (317) 800-6388 MARK VANDERWOUDE



Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

STRUCTURAL GENERAL NOTES

589-701 VA WICHITA - MED/SURG BEDS **BID DOCUMENTS** FOR PATIENT PRIVACY Building Number 1 & 1C **Drawing Number** WICHITA. KANSAS SI002 Checked 05/22/2020 WJT LKL

Project Number

Project Title

VA FORM 08 - 6231

