

CODES, STANDARDS & EXECUTIVE ORDERS

PURPOSE: The Public Buildings Amendment Act of 1988, Public Law (Pub. L.) 100-678 requires Federal agencies to follow national recognized "model" building codes. The Federal Participation in the Development and Use of Voluntary Standards, Office of Management and Budget (OMB) Circular A-119, requires all executive agencies to rely on voluntary standards, both domestic and international, whenever feasible, and to participate in voluntary standard bodies.

GENERAL: VA has adopted the latest edition of the following codes and standards as a minimum for all projects performed in the modernization, alteration, addition, or improvement of its real property and the construction of new structures. VA design Manuals and Master Specifications specify other codes and standards that VA follows on its projects:

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/tli/>).

International Building Code (IBC) (Only when specifically referenced in VA Design Documents, see notes below)

NFPA 101 Life Safety Code (see notes below)

NFPA National Fire Codes with the exception of NFPA 5000 and NFPA 900

Occupational Safety and Health Administration (OSHA) Standards.

VA Seismic Design Requirements, H-18-8

National Electrical Code (NEC)

National Standard Plumbing Code (NSPC)

Safety Code for Elevators and Escalators, American Society of Mechanical Engineers (ASME) A 17.1.

ASME Boiler and Pressure Vessel Code

ASME Code for Pressure Piping

Uniform Federal Accessibility Standards (UFAS) including VA Supplement, Barrier Free Design

Building Code Requirements for Reinforced Concrete, American Concrete Institute and Commentary (ACI 318)

Manual of Steel Construction, Load and Resistance Factor Design Specifications for Structural Steel Buildings, American Institute of Steel Construction (AISC)

Energy policy Act of 2005 (EPAct)

DOE Interim Final Rule: Energy Conservation Standards for New Federal, Commercial and Multi-Family High-Rise Residential Buildings and New Low-Rise Residential Buildings, 10 CFR Parts 433, 434 and 435.

Federal Leadership in High Performance and Sustainable Buildings: Memorandum of Understanding (MOU)

Executive Order 13423: Strengthening Federal Environmental, Energy, and Transportation Management.

The Provisions for Construction and Safety Signs. Stated in the General Requirements Section 01010 of the VA Master Construction Specification.

Ventilation for Acceptable Indoor Air Quality - ASHRAE Standard 62.1 (2004).

Safety Standard for Refrigeration Systems - ASHRAE Standard 15 (2007).

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. However, local authorities should be notified about planned projects and given opportunity to review drawings provided that VA does not pay for review or inspection fees.

NOTES:

1. NFPA 101 primarily addresses life safety and fire protection features while the IBC addresses a wide range of considerations, including, but not limited to, structural strength, seismic stability, sanitation, adequate light and ventilation, and energy conservation. VA buildings must meet the requirements of NFPA 101 and documents referenced by NFPA 101 in order to comply with the accreditation requirements of The Joint Commission. Therefore, designs shall comply with the requirements of the latest edition of NFPA 101 and documents referenced therein. 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 addressed above in this Program Guide. 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).

2. 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.

GENERAL CONSTRUCTION NOTES

A sawed vertical butt joint shall be constructed at all locations where the existing pavement meets the proposed.

The existing pavement cross slopes are to be maintained to assure positive drainage.

Detectable warnings shall consist of a surface of truncated domes meeting the requirements of the Americans with Disabilities Act Accessibility Guidelines, ADAAG, and the details shown on the plans. The product or method used for installing detectable warnings shall come with the following documents which shall be given to the Engineer prior to use.

- (a) Manufacturer's certification stating the product is fully compliant with the ADAAG.
- (b) Manufacturer's five year warranty.
- (c) Manufacturer's specifications stating the required materials, equipment, and installation procedures.

Products that are colored shall be colored their entire thickness. The materials, equipment, and installation procedures used shall be according to the manufacturer's specifications.

The contractor shall coordinate activities with all utilities within the project limits. It shall be the responsibility of the contractor to determine their exact locations from the utility companies and by field inspection. The contractor is required to contact J.U.L.I.E. at 1-800-892-0123 or 811 as noted on the cover sheet prior to proceeding with any work on the project.

Concrete surfaces shall have a broom finish.

Curb ramps and detectable warnings shall be constructed according to the ADAAG, the Illinois Accessibility Code, and as shown on the plans.

Crosswalk & handicapped accessible parking stall pavement markings shall be done by others, VA will finish striping once project is complete.

Contractor to furnish & install erosion control and traffic control measures as necessary to complete construction in accordance with local and federal codes and requirements.

Contractor to restore or replace all vegetation and parkway areas damaged during construction.

ALIGNMENT ITEMS

	EX	PR
CENTERLINE	---	---
CENTERLINE SYMBOL	⊕	⊕
DRAINAGE ITEMS	EX	PR
STORM SEWER	→→→→	→→→→
INLET	⊖	⊖
STORM MANHOLE	⊙	⊙
CATCH BASIN	⊙	●
END SECTION	◁	◁
FLOW DIRECTION	→	→

RIGHT OF WAY ITEMS

	EX	PR
RIGHT OF WAY	---	---
EASEMENT	////	////

UTILITY ITEMS

	EX	PR
GUY WIRE ANCHOR	←	←
VALVE BOX	⊙	●
CLEANOUT	⊙	●
CONTROLLER	⊞	⊞
FIRE HYDRANT	⊕	⊕
HANDHOLE	⊙	⊙
HEAVY DUTY HANDHOLE	⊞	⊞
DOUBLE HANDHOLE	⊞	⊞

UTILITY ITEMS (contd.)

JUNCTION BOX	⊞	⊞
LIGHT POLE	⊞	⊞
MANHOLE	⊙	⊙
PIPELINE WARNING SIGN	⊞	⊞
POWER POLE	⊞	⊞
SPLICE BOX	⊞	⊞
TELEPHONE POLE	⊞	⊞
TELEPHONE SPLICE BOX	⊞	⊞
TRAFFIC SIGNAL	⊞	⊞
TRAFFIC SIGNAL CONTROLLER	⊞	⊞
WATER METER	⊞	⊞
UNDERGROUND CABLE TV	---ctv---ctv---	---ctv---ctv---
UNDERGROUND ELECTRIC	---E---E---	---E---E---
UNDERGROUND FIBER OPTIC CABLE	---fo---fo---	---fo---fo---
UNDERGROUND GASLINE	---G---G---	---G---G---
UNDERGROUND OIL	---O---O---	---O---O---
UNDERGROUND SANITARY SEWER	→→→→→→→→→→	→→→→→→→→→→
UNDERGROUND TELEPHONE	---T---T---	---T---T---
UNDERGROUND WATER LINE	---W---W---	---W---W---
AERIAL UTILITY LINE	---A---A---	---A---A---

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	L-2	L-3	L-4	L-5	L-6	L-7	L-8	L-9	L-10	L-11	L-12	L-13	L-14	L-15		TOTAL QUANTITY	UNITS	
															Sidewalk	Parking Lot E			
35101600	AGGREGATE BASE COURSE, TYPE B, 4"	0	0	0	0	0	0	0	0	0	23	78	0	0	0	0	101	SQ YD	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	265	266	276	486	0	421	388	412	477	385	215	185	343	0	1,247	5,366	TON	
42000300	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	0	0	0	0	0	0	0	0	0	23	78	0	0	0	0	101	SQ YD	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	150	574	1,202	7,559	1,390	5,240	3,749	4,282	5,031	517	0	0	6,474	70	0	36,238	SQ FT	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK, 6"	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	SQ FT	
42400800	DETECTABLE WARNINGS	0	16	16	72	16	232	80	112	144	56	0	0	88	16	0	848	SQ FT	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2"	2,701	2,706	2,818	4,960	0	4,295	3,957	4,200	4,866	3,928	1,413	0	3,497	0	1,117	40,458	SQ YD	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,150	10,150	SQ YD	
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	52	480	166	256	0	350	10	85	180	180	41	0	185	0	0	848	FOOT	
44000600	SIDEWALK REMOVAL	150	526	1,667	7,338	1,355	4,795	3,749	4,282	5,399	1,303	0	0	6,095	0	0	36,659	SQ FT	
44201713	CLASS D PATCHES, TYPE I, 6 INCH	0	0	0	4	0	0	0	0	0	4	0	0	2	0	0	10	SQ YD	
44201717	CLASS D PATCHES, TYPE II, 6 INCH	0	9	14	23	0	0	0	18	0	11	0	0	0	0	20	95	SQ YD	
44201721	CLASS D PATCHES, TYPE III, 6 INCH	0	22	0	17	0	73	0	0	18	76	0	0	0	0	0	206	SQ YD	
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	89	145	565	418	0	237	195	0	0	1,138	0	141	0	0	0	2,928	SQ YD	
50900605	HANDRAIL REMOVAL	0	0	0	0	80	35	0	0	0	0	0	0	22	0	0	137	FOOT	
50901760	PIPE HANDRAIL	0	0	0	0	153	0	0	0	0	0	0	0	22	0	0	175	FOOT	
550A0050	STORM SEWERS, CLASS A, TYPE 1, 12"	0	0	270	0	0	0	0	0	0	0	0	0	0	0	0	270	FOOT	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	EACH	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	EACH	
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	4	EACH	
60236700	INLETS, TYPE A, TYPE 10 FRAME AND GRATE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	EACH	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	0	0	0	0	0	4	0	0	1	2	0	0	1	0	0	8	EACH	
60300310	FRAMES AND LIDS TO BE ADJUSTED	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	EACH	
60500040	REMOVING MANHOLES	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	EACH	
60500050	REMOVING CATCH BASINS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	EACH	
60500060	REMOVING INLETS	0	0	1	0	0	4	0	0	1	4	1	0	1	0	1	13	EACH	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	52	480	261	256	0	350	10	262	180	245	41	0	185	0	0	2,322	FOOT	
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346	519	SQ FT
78001110	PAINT PAVEMENT MARKING - LINE 4"	1,484	1,718	1,584	3,304	0	1,880	1,998	1,996	1,822	3,116	1,598	1,594	1,828	0	7,821	31,743	FOOT	
78001140	PAINT PAVEMENT MARKING - LINE 8"	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152	FOOT	
78001150	PAINT PAVEMENT MARKING - LINE 12"	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	FOOT	
78001180	PAINT PAVEMENT MARKING - LINE 24"	34	0	0	0	0	0	0	14	22	23	0	12	11	0	0	116	FOOT	
	REMOVE & REINSTALL AUTOMATIC DOOR ELECTRIC EQUIPMENT	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	3	EACH	

NOTES, LEGEND & QUANTITIES	Project Title FCA REMOVE AND REPLACE ASPHALT ROADWAY AND CONCRETE WALKS STATION WIDE		Date 2/18/2011	
	Building Number		Checked P.T.	
	Location VA ILLIANA HEALTH CARE SYSTEM DANVILLE, ILLINOIS		Drawn M.D.	
Project No. 550-10-119			DRAWING NO. A-1 2 of 24	



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