GENERAL NOTES

I. Codes and Standards

A. The following codes and standards shall apply to the design and construction of this structure:

- 1. "International Building Code 2012" International Code Council
- 2. "Building Code Requirements for Structural Concrete (ACI 318-11)" American Concrete Institute.
- 3. "Manual of Steel Construction" American Institute of Steel Construction, Inc., Fourteenth Edition
- 4. "ACI Manual of Concrete Practice 2008 (Part 1 through Part 5)" American Concrete Institute.
- 5. "CRSI Handbook" 2008 Concrete Reinforcing Steel Institute. 6. "PCI Design Handbook, 7th Edition" - Precast/Prestressed Concrete Institute
- 7. ASCE 7-10, Minimum Design Loads for Buildings & Other Structures American Society of Civil Engineers.
- B. The construction of this structure including the quality control and safety of all work shall be governed by all applicable Federal and District of Columbia codes and ordinances including Fire Codes. This structure shall be classified as Type IIB.
- C. Use the latest editions unless noted otherwise.
- D. The structure is designed for (2 1/2) levels of future vertical expansion.

II. Existing Condition or Construction

Prior to fabrication and erection or installation of any material or placement of concrete for new construction, FIELD VERIFY ALL EXISTING elevations, dimensions, and conditions of adjacent existing construction including foundation and compare them with the Contract Documents. Report any contradiction or discrepancy to the Architect/Engineer immediately for interpretations and/or adjustments prior to commencing work. Cost of correcting discrepancies after work has been started shall be borne by the Contractor.

III. Design Loads

Revision

A. Live Loads:

		Roof (Top Tier)		Typical		
		Uniform	Concetrated	Uniform	Concentrate	
1.	Supported parking levels	40 psf	*	40 psf		
2.	Stairs, landings, and lobbies			100 psf		
3.	Stair elevator tower roof	20 psf				

- Note: Live load reductions permitted per IBC 2012 section 1607.9
- 4. * Concentrated wheel load (on 4.5 in. x 4.5 in.; applied to produce maximum stress) 3000 lbs.
- 5. ** Concentrated load on stair treads (on area of 4 sq. in., applied to produce maximum stress) 300 lbs. 6. Bumper impact load at 18" & 27" A.F.F. (on 1 sq. ft. surface; all susceptible members) 6000 lbs.

B. Wind Loads:

- Basic wind speed Ice Importance Factor
- Wind exposure category Wind importance factor, I/w

Internal pressure coefficient, GC/Pi 6. Wind design pression, P/s:

			115 mph 1.0 B 1.0 0.55		
&			Wind I	Pressure (p	sf)
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5

37.63 57.06 57.06 37.39 43.95

Note: See ASCE 7-10, FIGURE 30.4-1 & 30.4-2A for add'l info

C. Seismic Loads:

1.	Seismic Importance Factor	1.0
2.	Risk Category	II
3.	Ss: 0.2 second spectral response acceleration S1: 1.0 second spectral response acceleration	0.195 0.059
4.	Site Class	D
5.	Sds: 0.2 second spectral response coefficient Sd1: 1.0 second spectral response coefficient	0.208 0.094
6.	Seismic Design Category	В

Components

All Tiers

Cladding

- 7. Seismic Force Resisting System
- a. The Seismic Force Resisting System shall be classified as Intermediate Precast Structural Walls and shall comply with the requirements of

ASCE 7-05 Section 14.2.2.14.

b. Bearing wall system with intermediate precast shear walls (N/S) & Intermediate reinforced concrete moment frame (E/W)

8. Design Base Shear

a. N-S shearwall seismic loads (per wall, kips) West Structure

Level Wall	SW#1	SW#2	SW#3
6th Tier	194 kips	23 kips	31 kips
5th Tier	170 kips	20 kips	27 kips
4th Tier	140 kips	17 kips	23 kips
3th Tier	110 kips	14 kips	18 kips
2rd Tier	80 kips	11 kips	14 kips
G Tier	54 kips	9 kips	12 kips
B1 Tier	27 kips	7 kips	10 kips
Deee Cheen	775 1.4.00	404 1.000	400 1.000

Base Shear	775 KIPS	101 kips	1351
	omia laada	(norwell k	:
D. E-W SNearwall Sei	smic loads	(per wall, k	IDS)

West Structure

Level Wall	LW#1	LW#2
6th	68 kips	68 kips
5th Tier	60 kips	60 kips
4th Tier	50 kips	50 kips
3rd Tier	40 kips	40 kips
2nd Tier	31 kips	31 kips
G	21 kips	21 kips
B1	11 kips	11 kips
Base Shear	281 kips	281 kips

9. Cs: Seismic Response Coefficient

a. N-S Shearwall b. E-W Shearwall

10. R: Response Modification Factor

- a. N-S Shearwall
- b. E-W Shearwall
- 11. Analysis Procedure Used:

East Structure				
Level Wall	SW#4	SW#5	SW#6	SW#7
6th Tier	48 kips	37 kips	25 kips	255 kips
5th Tier	42 kips	32 kips	22 kips	223 kips
4th Tier	35 kips	27 kips	19 kips	183 kips
3th Tier	28 kips	22 kips	16 kips	143 kips
2rd Tier	21 kips	16 kips	12 kips	104 kips
G Tier	14 kips	11 kips	9 kips	63 kips
B1 Tier	8 kips	7 kips	6 kips	27 kips
Base Shear	196 kips	152 kips	109 kips	998 kips

East Structure

Level Wall	LW#3	LW#4	LW#5
6th	58 kips	58 kips	58 kips
5th Tier	51 kips	51 kips	51 kips
4th Tier	43 kips	43 kips	43 kips
3rd Tier	34 kips	34 kips	34 kips
2nd Tier	26 kips	26 kips	26 kips
G	18 kips	18 kips	18 kips
B1	9 kips	9 kips	9 kips
Base Shear	239 kips	239 kips	239 kips

Cs = .052 Cs = .035

R = 4 Cd = 4

R = 5 Cd = 4.5

Equivalent lateral force procedure

2

		L
100% Submission	2/16/15	
95% Submission	8/28/14	
65% Submission	8/07/14	
35% Submission	4/15/14	

Date

1

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PARKING CONSULTANT Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100

Blue Bell, PA 19422 MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

D. Roof Snow Loads: 4. Provide two #4 L bars with 3'-0" legs (minimum) at each corner of precast panels. Ground snow load, pg 25 psf 5. P/C double tees to contain 2 gal. calcium nitrite corrison inhibitor per cubic yard of concrete. . 21 psf 2. Flat roof snow load, pf 3. Snow exposure factor, Ce 1.0 1.2 Thermal factor, Ct E. Concrete Protection for Reinforcement: 5. Snow importance factor, Is 1.0 220 plf Snow drift 1. The minimum concrete cover provided for reinforcement shall be per ACI 318-08, Section 7.7, U.N.O. E. Volume Change Parameters: 1. Design temperature differential 50° F 2. Annual average ambient relative humidity 70% VI. Concrete Masonry IV. Foundation Work (Reference only): A. Material Properties - Masonry: 1. Prism strength of masonry, f'm = 1500 psi. A. The foundation including spread footings, wall footings, retaining walls, and slab-on-grade have been designed in accordance with the geotechnical report prepared by Schnabel Engineering dated 8/11/2010. For additional information, see Division 02 of the Specifications. 2. Mortar type "M" (below grade) or "S" (above grade) B. Foundation Design Parameters: See foundation drawings for existing structure. B. General Notes for Masonry C. General Contractor is responsible for the design and construction of all temporary excavations, bracing, sheeting, and shoring. V. Concrete: to at least 2'-8" above floor and all cores shall be grouted solid up to 2'-8" above floor. A. Material Properties - Concrete: Total Air Application f'c (min.) Slump W/C ratio @ 28 days Content Provide one-piece prefabricated units spaced @ 8" o.c. at wall corners and intersections. (±1 1/2%) (inches) 1. Cast-in-Place Concrete: 5 1/2 Walls, Piers 0.40 5000 Slab-On-Grade 5000 0.40 6 1/2 7 1/2 Tee Topping, Pourstrip 5000 0.40 on the Drawings. Notify Architect and/or Engineer of any conflict prior to lintel installation. Other no test 6. Provide control joints in masonry or brick walls at 20'-0" o.c., maximum, U.N.O. 2. Precast Concrete: VII. Structural Steel Columns, Girders 6000 0.38 5 1/2 no test Tees, Slabs, Stairs 5500 0.38 no test 6 1/2 A. Material Properties - Structural Steel: 0.40 Beams, Wall Panels 5000 5 1/2 no test Type Fy, psi 3. Other Concrete: W-Shape 50,000 36,000 Anchor Bolts Columns base drypack 6000 no test Connection Steel 36,000 ----Masonry grout fill 3000 8-10 no test Steel Pipes 35,000 ----N.S.N.S. grout 46,000 6000 Structural Tubes no test ----Cold Formed Steel 33,000 4. The allowable maximum slump shown above shall be prior to adding superplasticizer as applicable. E70XX Welding Electrodes 5. All concrete aggregates shall be normal-weight, U.N.O. Type Fu, psi High Strength Bolts 120,000 B. Material Properties - Reinforcing & Connection Steel: B. Structural steel fabrication, erection and connection design shall conform to AISC "Manual of Steel Construction". ASTM No. Type Grade, ksi C. Submit shop drawings for approval prior to any fabrication. Deformed rebars, U.N.O. 60 (80) A615 Weldable deformed rebars 60 (80) A706 Welded wire reinforcement (W.W.R.) A185 A416 Prestressing strands Deformed bar anchors (D.B.A.) A496 F. All connections shall be standard AISC framed or seated beam connections, U.N.O. A108 Headed anchor studs (H.A.S.) C. Cast-in-Place and Precast Concrete Notes: paint per specifications. Refer to AWS D19.0 for additional info. 1. All reinforcement shall be continuous and no splices shall be permitted except as detailed or authorized by the Engineer. When permitted, column reinforcing to be spliced according to ACI 318-08, Chapter 12, U.N.O. H. Bolted connections: 2. Provide additional reinforcing around all openings, i.e., doors, windows, blockouts, etc., as follows: two #5 bars, E.F., on all sides of each opening extended 2'-0" beyond the corners of each opening plus two #5 by 4'-0" long diagonals, E.F., at each corner except as noted herein. 3. When permitted, splices shall be made by Class B tension lap splices, typical, U.N.O. 3. High-strength bolted connection shall be bearing type with threads allowed in the shear plane, U.N.O. 4. Provide 3/4" chamfers on exposed corners of concrete, U.N.O. pretensioned on the Drawings. Pretension bolts with a calibrated torque wrench or by the "turn of the nut" method. 5. Provide construction and control joints in slabs and walls as shown on the Drawings. For further information, refer to section 033000 of the Specifications. 6. All inserts, coil rods, and plate connections shall be galvanized unless otherwise noted. Whenever feasible, all inserts and sleeves shall be cast in the concrete. Use of power-propelled fasteners or drilled-in anchors shall not be allowed in prestressed concrete unless authorized in J. Welded connections: writing by the Engineer. 1. Minimum size of weld shall be 3/16", U.N.O. 7. Tee to tee connector plates and rebar shall be stainless steel per ASTM A 666, Type 304L. Welding on stainless steel plates shall be in accordance 2. Surface to be field welded shall be clean and free of paint, dirt, grease or other foreign material. with latest edition of AWS Code. 8. All C.I.P. toppings, pourstrips, and washes to contain calcium nitrite corrosion inhibitor (3 gal. per cu. yd. of concrete) and 11/2 lbs. fibrous reinforcement per cubic yard of concrete in accordance with spec. section 033000. Maximum size of coarse aggregate shall be 3/8". VIII. Miscellaneous Items D. Additional Precast Concrete Notes: A. These notes supplement the Specifications which shall be referred to for further information. 1. The structural drawings have been detailed based on performance-type design of the precast members unless noted otherwise. Precast contractor B. In case of conflict between notes, details and specifications, the most stringent requirements shall govern. shall submit the design calculations and shop drawings, with Professional Engineer's seal in the District of Columbia. Refer to spec. section 034000 for further requirements. 2. The structure has been designed for its intended final service condition. The precast contractor shall be responsible for supplemental member D. Do not scale the drawings. design to withstand forces due to handling and erection including transporting, sequencing, guying, bracing, staying and shoring required for structural stability during construction until final stability is achieved through completion of design connections. IX. Abbreviations 3. Provide all openings, blockouts, reveals, rustications, recesses, drips, inserts, etc., cast into precast concrete according to the requirements of ANCHOR BOLTS A.B. the Architectural, Electrical and Mechanical Drawings. Coordinate actual sizes and locations with respective trades. These include, but is not limited to, A.F.F ABOVE FINISHED FLOOR the following: AI TERNATE AI T ARCHITECT ARCH a. Blockouts for exterior lighting conduits as required. BFT BETWEEN b. Blockouts for electrified signs at entry/exit location. BITUMINOUS BIT c. Anchor bolts and conduits for light poles at top tier. BOTT. BOTTOM d. Embed plates and/or blockouts for separator and hoist beam connections per elevator load requirements. BEARING BRG. e. Blockouts/openings for elevator buttons, fixtures, etc. C.I.F CAST-IN-PLACE f. Vertical chases along lightwalls for plumbing/drainage risers. C.J. CONTROL JOINT/ g. Embed plates and inserts for exterior facade framing as required. CONSTRUCTION JOINT CL./CLR. CI FAR CONSTRUCTION MANAGER C.M. C.M.U. CONCRETE MASONRY UNIT

	SEAL:	ARCHITECT/ENGINEERS:		Drawing Title	Project Title	AL CENTER	R	Project Number
COST ESTIMATOR DMS Construction Consulting Services, Inc.		Melville Thomas Architects, Inc.			EXPAND VISITOR/PA PARKING GARAGE -		TIENT PHASE 1	Building Numb
Columbia, MD 21044		MTARX	MTARX IIMHAans	Approved: Project Director -	Location 50 IRVING ST. N.W.		WASHINGTON, D.C.	
KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com		-	Date 02/16/15	Checked NCA	Drawn BSS	S0.1

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COL.

CONC.

CONN.

CONT.

D.B.A.

DET

DIA

DIM

DN

EA.

E.B.F.

E.B.P

E.F.G.

E.J. EL./ELEV.

FI FC.

E.T.B.

E.T.C.

E.T.F.

E.T.L.

E.T.P.

FTP/C

E.T.S.

E.T.W.

E.W.

E.W.P.

E.W.E.F.

DWG(S).

CONTR.

COLUMN

DETAIL

DOWN

FACH

DIAMETER

DIMENSION

DRAWING(S)

EACH FACE

ELEVATION

ELECTRICAL

EACH WAY

EXPANSION JOINT

DRILLED PIER CAP

CONCRETE

CONNECTION

CONTINUOUS

CONTRACTOR

DEFORMED BAR ANCHOR

ELEVATION BOTTOM OF FOOTING

ELEVATION BOTTOM OF PIER

ELEVATION FINISHED GRADE

ELEVATION TOP OF BEAM

ELEVATION TOP OF PILE OR

ELEVATION TOP OF FOOTING

ELEVATION TOP OF PRECAST

ELEVATION TOP OF LEDGE

ELEVATION TOP OF PIER

ELEVATION TOP OF SLAB

ELEVATION TOP OF WALL

ELEVATION WORKING POINT

EACH WAY, EACH FACE

2. For prestressed/precast construction, the minimum concrete cover for reinforcement at top of all prestressed/precast members shall be 1.5 inches, U.N.O.

1. Minimum vertical reinforcement for masonry walls shall be #4 @ 48" o.c., typical U.N.O. Provide one #4 vertical at all corners, at each side of openings and at ends of walls. Masonry walls subject to bumper loads shall be reinforced with #4 @ 16" o.c., extended

2. Provide dowels between foundation and masonry walls to match vertical wall reinforcement in size and spacing, U.N.O.

3. Horizontal joint reinforcement for masonry walls shall be standard weight, galvanized spaced @ 16" o.c., typical, U.N.O.

4. Provide bond beam lintels with two #5 continuous above openings, U.N.O. Bearing support for bond beams shall be solid blocks or hollow blocks grouted solid over an area of 8" wide minimum, over three courses below and extending out at an angle of 45 degrees, U.N.O.

5. The Contractor shall verify that all openings below lintels are adequate to accept door or window frames, louvers, etc., as shown

ASTM No. A992 F1554, Grade 36 A36 A53, Grade B A500, Grade B A924 AWS D1.1, D1.6 OR D19.0 ASTM No. A325

D. Member connections shall be detailed for a minimum factored force of no less than 10 kips as per AISC "Manual of Steel Construction". E. All connections shall be designed for the member sizes indicated on the plans or as detailed using A325 high strength bolts, 3/4" Ø U.N.O.

G. All exterior steel members and connections shall be painted with rust inhibiting primer or hot dipped galvanized and painted per specifications. Do not galvanize or paint surfaces to be field welded. Touch-up all field welds with rust inhibiting primer or galvanizing repair paint and

1. All bolted connections shall be made with 3/4" ASTM A325 bolts with ASTM F436 washers and ASTM A563 nuts, U.N.O.

2. All high-strength bolt connections shall conform to "Specifications for Structural Joint Using ASTM A325 Bolts" as endorsed by AISC.

4. High-strength bolt shall be snug-tightened, unless required by AISC "Manual of Steel Construction" to be fully pretensioned or noted as

I. All welding shall conform to AWS D1.1, AWS D1.6 (Stainless Steel) or AWS D19.0 (Galvanized Steel) - latest edition.

FX

F.D.

F.E.

G.B.

N.F.

PSI

C. For exact sizes and locations of all mechanical, plumbing and electrical items and penetrations, consult respective trades for coordination.







PSF

R.D.

RM.

R.O.

R.O.F.

SCHED.

SECT.

SHT.

SIM.

S.L.V.

S.O.G.

SPECS.

STD.

STL.

Т&В

T.B.D.

TYP.

U.N.

V.I.F.

W/O

W.P.

WΤ

WWF

WWR

VERT.





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Blue Bell, PA 19422

Blue Bell, PA 19422

MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

	Date		
1			2

2/16/15

8/28/14

8/07/14

100% Submission

95% Submission

65% Submission

levisions:

VA FORM 08-6231

	SEAL:	ARCHITECT/ENGINEERS:	
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719	TimHaa

	Drawing Title STRUCTURAL GENERAL DETAILS	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1 Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Project Numb 688-345 Building Num -
S	Approved: Project Director				Drawing Nur
	-	Date	Checked	Drawn	≓ S0.2
		02/16/15	NCA	BSS	Dwg. 40







VERTICAL SURFACE OF STRUCTURAL MEMBER (i.e. COLUMNS, WALLS, CURBS, ETC.) TOP COAT W/ WEAR COAT AT DRIVE LANES BASE COAT

PRIME COAT SHOTBLAST EXISTING FLOOR SLAB TO COMPLETELY EXPOSE CONCRETE SUBSTRATE

STRUCTURAL SLAB

As indicated Office of Construction and Facilities Management Department of Veterans Affairs of 89



VA FORM 08-6231



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	SEAL:	ARCHITECT/ENGINEERS:		Drawing Title ANCHOR BOLT PLAN & DETAILS -	Project Title	CENTER	Project Number 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300		Melville Thomas Architects, Inc.		EXISTING & NEW WORK	EXPAND VIS	ITOR/PATIENT ARAGE - PHASE 1	Building Numl
Columbia, MD 21044		MTARX	Imhaans	Approved: Project Director -	Location 50 IRVING ST. N.W.	WASHINGTON, D.C.	Drawing Num
KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com			Date 02/16/15	CheckedDrawnNCABSS	S1.0 Dwg.41

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DEDUCT ALTERNATES (ALT.)
DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS BASE: Perforated metal screen with accent lighting as shown on the drawings. DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05/A2.1 and 03/A2.2, delete accent lighting as shown on Drawings(s) 01/A2.4, 02/A2.4, 11/A5.2 and 02/E1.4
DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES BASE: Elevator finishes as shown on the drawings. DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01/A3.1, 01/A3.2, 04/A5.2 and 05/A5.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on fixture schedule E0.0 and Drawing(s) A4.1 and A4.2.
DEDUCT ALT. #3 - SITE IMPROVEMENTS BASE: All site work shown on the drawings. DEDUCT: Provide only the site work shown on Drawing(s) 01/CS3.1 and CS3.2.
DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS BASE: All landscape work and site furnishings shown on the drawings. DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01/LP7.0 and LP7.1.
DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES BASE: All automatic door opening devices shown on the drawings and hardware schedule. DEDUCT: Provide manual door closer as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) 01/E2 1, 01/E2 4 and 02/E2 4
<u>DEDUCT ALT. #6 - CARD READERS</u> BASE: All card readers shown on the drawings and hardware schedule. DEDUCT: Provide manual door locks/latches as specified in Spec Sections(s) 087100. Delete electrical feeds shown on Drawing(s) 02/E2.2, 01/E2.4 and 02/E3.2.
DEDUCT ALT. #7 - BARRIER CABLE SYSTEM BASE: Barrier cable system as shown on the drawings. DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06/A2.4.
DEDUCT ALT. #8 – CRASH BARRIER, BOLLARDS AND SECURITY GATES BASE: All crash barriers, bollards, and security gates shown on the drawings. DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01/CS3.0, 04/LP7.1 and 05/LP7.1.
DEDUCT ALT. #9 - SITE FENCING BASE: All site fencing shown on the drawings. DEDUCT: Delete all site fencing shown on Drawing(s) 01/CS3.0 and 08/LP7.1.
DEDUCT ALT. #10 -INTERIOR GARAGE BARRIER FENCING BASE: All cable type barrier fencing shown on the drawings. DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06/S3.3.
DEDUCT ALT. #11 - SECURITY CAMERAS BASE: Security cameras as shown on the drawings. DEDUCT: Delete security cameras and appurtenances (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02/E3.5.
DEDUCT ALT. #12 - LED LIGHTING BASE: LED lighting as shown on the drawings. DEDUCT: Provide substitute light fixtures as shown on fixture schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
DEDUCT ALT. #13 - SECURITY BOOTH BASE: Security booth as shown on the drawings. DEDUCT: Delete security booth and appurtenances shown on Drawing(s) A4.3, 02/E1.4, 03/E2.2 and 01/E2.3.
DEDUCT ALT. #14 - PARKING TIERS BASE: 2-1/2 new tiers parking tiers as shown on the drawings. DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02/A1.2, 02/A1.6, A2.1, A2.2, 01/S1.5, 02/M1.3, 02/P1.3, 03/FP1.3, 02/E1.6, 02/E2.4 and 02/E3.4.

As indicated Office of Construction and Facilities Management ber Department of Veterans Affairs of 89



		CONSULTANTS:	
4 100% Submission	2/16/15	ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210 STRUCTURAL ENGINEER	PARKING CONSULTAN Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422 MEP ENGINEER
4 100 % Submission	2/10/13	Tim Haahs & Associates. Inc.	DCS Infrastructure. Inc.
	0/20/14	550 Township Line Road, Suite 100	3249 Route 112, Suite 1B
2 65% Submission	8/07/14	Blue Bell, PA 19422	Medford, NY 11763
2 65% Submission Revisions:	8/07/14 Date	Blue Bell, PA 19422	Medford, NY 11763

1 2

	SEAL:	ARCHITECT/ENGINEERS:		Drawing Title B2 & B1 TIER STRUCTURAL PLANS -	Project Title	CAL CENTE	R	Project Numbe
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300		Melville Thomas Architects, Inc.		EXISTING	EXPAND V PARKING	VISITOR/PA GARAGE -	ATIENT PHASE 1	Building Numb
Columbia, MD 21044		MTARX	I IMPIAA S	Approved: Project Director	Location			Drawing Numb
CIVIL ENGINEER				-	50 IRVING ST. M	N.W. WASHINGTO	DN, D.C.	
KCI Technologies, Inc.				-	Date	Checked	Drawn	≓ S1.1
936 Ridgebrook Road		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210		-				
Sparks, MD 21152		T: 410.433.4400 F: 410.433.4719 www.mtarx.com			02/16/15	NCA	BSS	Dwg. 42

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<u>KEY PLAN</u> ISOMETRIC

8

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		1
EDUCT ALTERNATES (ALT.) EDUCT ALT. #1 - PERFORATED METAL SCREEN WALL SE: Perforated metal screen with accent lighting as show	<u>S</u> n on	
e drawings. EDUCT: Delete perforated metal screen and supporting ucture as shown on Drawing(s) 05/A2.1 and 03/A2.2, delet cent lighting as shown on Drawings(s) 01/A2.4, 02/A2.4, /A5.2 and 02/E1.4	e	
EDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES SE: Elevator finishes as shown on the drawings. EDUCT: Delete exposed aggregate finish on concrete floor own in Drawing(s) 01/A3.1, 01/A3.2, 04/A5.2 and 05/A5.2 a bstitute smooth trowel finish, delete suspended metal ceilin	r as and Igs	
shown on Drawing(s) A4.1 and A4.2, provide substitute lig tures as shown on fixture schedule E0.0 and Drawing(s) A- d A4.2. EDUCT ALT. #3 - SITE IMPROVEMENTS	nt 4.1	А
SE: All site work shown on the drawings. DUCT: Provide only the site work shown on Drawing(s) /CS3.1 and CS3.2.		
SE: All landscape work and site furnishings shown on the awings. EDUCT: Provide only the landscape work and site furnishing own on Drawing(s) 01/LP7.0 and LP7.1.	ngs	
EDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICE ASE: All automatic door opening devices shown on the dra d hardware schedule. EDUCT: Provide manual door closer as specified in Spec ction(s) 087100. Delete electrical feeds shown on Drawing /E2.1, 01/E2.4 and 02/E2.4.	<u>(S</u> wings (s)	
EDUCT ALT. #6 - CARD READERS (SE: All card readers shown on the drawings and hardwar hedule. EDUCT: Provide manual door locks/latches as specified in	e Spec	
ctions(s) 087100. Delete electrical feeds shown on Drawin /E2.2, 01/E2.4 and 02/E3.2. EDUCT ALT. #7 - BARRIER CABLE SYSTEM \SE: Barrier cable system as shown on the drawings.	g(s)	В
DUCT: Delete barrier cables at exterior openings as show Drawing(s) A2.1, A2.2 and 06/A2.4.	vn <u>ECURITY</u>	
KEC SE: All crash barriers, bollards, and security gates shown a drawings. EDUCT: Delete all crash barriers, bollards, and security ga own on Drawing(s) 01/CS3.0, 04/LP7.1 and 05/LP7.1.	on tes	
EDUCT ALT. #9 - SITE FENCING SE: All site fencing shown on the drawings. EDUCT: Delete all site fencing shown on Drawing(s) 01/CS d 08/LP7.1.	3.0	
EDUCT ALT. #10 -INTERIOR GARAGE BARRIER FENCIN SE: All cable type barrier fencing shown on the drawings. EDUCT: Provide chain link barrier fencing shown on Drawi	<u>VG</u> ng(s)	
EDUCT ALT. #11 - SECURITY CAMERAS SE: Security cameras as shown on the drawings. EDUCT: Delete security cameras and appurtenances (con- inction boxes, and power) shown on Drawing(s) E3.3, E3.4 /E3.5.	duit, and	
EDUCT ALT. #12 - LED LIGHTING SE: LED lighting as shown on the drawings. EDUCT: Provide substitute light fixtures as shown on fixtur hedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E	e 1.6.	С
EDUCT ALT. #13 - SECURITY BOOTH SE: Security booth as shown on the drawings. EDUCT: Delete security booth and appurtenances shown of awing(s) A4.3, 02/E1.4, 03/E2.2 and 01/E2.3.	n	
EDUCT ALT. #14 - PARKING TIERS (SE: 2-1/2 new tiers parking tiers as shown on the drawing EDUCT: Delete 1/2 tier and connecting ramp as shown on awing(s) 02/A1.2, 02/A1.6, A2.1, A2.2, 01/S1.5, 02/M1.3, (Dd 2, 02/ED12, 20/ED12, 4 and 02/ED14, 10/ED14, 10/E	js.	
121.3, 03/FP1.3, 02/E1.6, 02/E2.4 and 02/E3.4.		
		D
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Office of Construction and Facilities Management Department of Veterans Affairs of 89

1 49'-0"	2 3	4 4.1 338'-2" 5 48'-0" 48'-0"	6 7 48'-0"	<u>8</u> <u>49'-0"</u> <u>01</u> <u>S1.6</u>	(BASE EL. = 257' - 6")	DEDUCT ALTERNATES (ALT.) DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS BASE: Perforated metal screen with accent lighting as shown or the drawings. DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05/A2.1 and 03/A2.2, delete accent lighting as shown on Drawing(s) 01/A2.4, 02/A2.4, 11/A5.2 and 02/E1.4 DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES BASE: Elevator finishes as shown on the drawings. DEDUCT: Delete exposed aggreate finish on concrete floor as shown in Drawing(s) 01/A3.1, 01/A3.2, 04/A5.2 and 05/A5.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on fixture schedule E0.0 and Drawing(s) A4.1 and A4.2. DEDUCT ALT. #3 - SITE IMPROVEMENTS BASE: All site work shown on the drawings. DEDUCT: ALT. #4 - LANDSCAPE AND SITE FURNISHINGS
					HIRD TIER (BASE EL. = 223' - 0")	BASE: All landscape work and site furnishings shown on the drawings. DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01/LP7.0 and LP7.1. DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES BASE: All automatic door opening devices shown on the drawing and hardware schedule. DEDUCT: Provide manual door closer as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) 01/E2.1, 01/E2.4 and 02/E2.4. DEDUCT ALT. #6 - CARD READERS BASE: All card readers shown on the drawings and hardware schedule. DEDUCT: Provide manual door locks/latches as specified in Spe Sections(s) 087100. Delete electrical feeds shown on Drawing(s) 02/E2.2, 01/E2.4 and 02/E3.2. DEDUCT ALT. #7 - BARRIER CABLE SYSTEM BASE: Barrier cable system as shown on the drawings. DEDUCT: Delete barrier cables at exterior openings as shown
	$\begin{pmatrix} (-1,-1)\\$		(1+1)		USUBLE SECOND TIER (BASE EL. = 211' - 6") GROUND TIER (BASE EL. = 200' - 0") G_{C}	 on Drawing(s) A2.1, A2.2 and 06/A2.4. DEDUCT ALT. #8 – CRASH BARRIER, BOLLARDS AND SECU GATES BASE: All crash barriers, bollards, and security gates shown on the drawings. DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01/CS3.0, 04/LP7.1 and 05/LP7.1. DEDUCT ALT. #9 - SITE FENCING BASE: All site fencing shown on the drawings. DEDUCT: Delete all site fencing shown on Drawing(s) 01/CS3.0 and 08/LP7.1. DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING BASE: All cable type barrier fencing shown on the drawings. DEDUCT: Provide chain link barrier fencing shown on Drawing(s) 2.1 and 06/S3.3. DEDUCT ALT. #11 - SECURITY CAMERAS BASE: Security cameras as shown on the drawings. DEDUCT ALT. #11 - SECURITY CAMERAS BASE: Security cameras as shown on the drawings.
			REMOVE EXISTING PRECAST CLOSURE SPANDREL AND PROVIDE NEW TEE-TO-TEE CAMBER CLIP CONNECTIONS, AS REQUIRED.		ENTRY/EXIT B2 TIER (BASE EL. = 178' - 0")	DEDUCT ALT. #12 - LED LIGHTING BASE: LED lighting as shown on Drawing(s) E1.4, E1.5 and E1.6 DEDUCT ALT. #13 - SECURITY BOOTH BASE: Security booth as shown on Drawing(s) E1.4, E1.5 and E1.6 DEDUCT ALT. #13 - SECURITY BOOTH BASE: Security booth as shown on the drawings. DEDUCT: Delete security booth and appurtenances shown on Drawing(s) A4.3, 02/E1.4, 03/E2.2 and 01/E2.3. DEDUCT LT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02/A1.2, 02/A1.6, A2.1, A2.2, 01/S1.5, 02/IN1.3, 02/P1.3, 03/FP1.3, 02/E1.6, 02/E2.4 and 02/E3.4.
U1 <u>1/16" = 1'-0"</u>				BASE ELEVATION = 2	200'-0" 200'-0" 1. REFER TO SHEET 1. REFER TO SHEET 2. REFER TO SHEET 2. REFER TO SHEET 3. REFER TO SHEET 3. REFER TO SHEET 4. REFER TO SHEET 4. REFER TO SHEET 9. LUMBING DRAWI 5. REFER TO SHEET 6. FLOOR SLAB SYST WARP DOUBLE TE DIFFERENCES. 7. PLAN 1/S1.3 REPR NOTES SHOWN OF 8. USE STRAIGHT LIN 9. SLOPE BEARING F UNIFORM BEARING 11. SHADED A 11. COODDINATE TER SHADED A	OTES: S0.1 FOR GENERAL NOTES. S3.1 FOR PRECAST TEE DETAILS. S3.2 FOR COLUMN DETAILS. S3.2 FOR COLUMN DETAILS. S S1.3 FOR STAIRTOWER PLANS, SECTIONS. COORDINATE WITH NGS. S S1.5-S1.8 FOR STAIRTOWER PLANS, SECTIONS, AND DETAILS. TEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. ES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION ESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND NIT ARE TYPICAL OF EVERY TIER U.N.O. WE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED. 1/ATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE 3 SURFACES FOR P/C MEMBERS AS REQUIRED, TYP. NREAS DEPICT EXTENT OF C.I.P. TOPPING. REAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO THIGH AT OF UPDERCENT OF TRAFFIC DECK COATING. PRECASTER TO THIGH AT OF UPDERCENT MUTULE DECCK COATING. PRECASTER TO THIGH OF UPDERCENT MUTULE DECK COATING. PRECASTER TO
					COORDINATE TEE WATERPROOFING 12. —— INDICATES ABOVE ALL TEE-TO SEALANT OVER E/ 13. – — INDICATES 14. ALL TOPPING ON GALS./CU. YARD OF YARD OF CONCRE 15. ELEVATIONS SHO' ELEVATIONS AT TI DOES NOT INCLUE INFO. 16. [] DEPICTS LOO 17. BASE ELEVATIONS CALCULATED BY A THE CONTRACTOP	HINSH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH CONTRACTOR. S TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT D-TEE JOINTS PER DETAILS 3/S3.1. PROVIDE TRANSVERSE TOOLED JOINT WITH ACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C. S WASH LINE. TEES AND POURSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 FC CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. TTE. WN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (P/C DOUBLE TEE) HE COLUMN CENTERLINE, U.N.O. WITH AN ELEVATION TARGET SYMBOL. (THIS DE THE HEIGHT OF WASH/CURB.) REFER TO PLAN ELEVATION KEY FOR ADD'L. CATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION. S REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE ADDING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS. R SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM ACING CONCRETE POURSTRIP AND OVERHEAD STRUCTURE AT THIS ACING CONCRETE POURSTRIP AND TOPPING.
						 FACE OF WALL/SPANDREL PROVIDE WASH AS REQUIRED PLAN ELEVATION SLAB POINT ELEVATION AT PROJECTED TOP OF SLAB SURFACE
	CONSULTANTS:	SEAL:	ARCHITECT/ENGINEERS: Melville Thomas Architects, Inc.	Drawing GRC EXIS	Title DUND TIER STRUCTURAL PLAN - STING & NEW WORK	t Title MEDICAL CENTER A MEDICAL CENTER A MEDICAL CENTER A MEDICAL CENTER Building Number Building Number
4 100% Submission 3 95% Submission 2 65% Submission 1 35% Submission	Melville Thomas Architects, Inc.Tim Haahs & Associates, Inc.2/16/15600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210550 Township Line Road, Suite 100 Blue Bell, PA 194228/28/14STRUCTURAL ENGINEER Tim Haahs & Associates, Inc.MEP ENGINEER DCS Infrastructure, Inc.8/07/14550 Township Line Road, Suite 100 Blue Bell, PA 194223249 Route 112, Suite 1B Medford, NY 11763	DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152	600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T- 410 433 4400 F- 410 433 4719	TimHaans - - -	d: Project Director	ARKING GARAGE - PHASE 1 - and Facility on Drawing Number Managem RVING ST. N.W. WASHINGTON, D.C. Drawn S1.2 Checked Drawn Departm







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ber	Construction and Facilities			
ber	Management			
of 89	Department of Veterans Affairs			



VA FORM 08-623

	SEAL:	ARCHITECT/ENGINEERS:	
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		Melville Thomas Architects, Inc. ARCHITECTURE & PLANNING 600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	TimHaa

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- 4. REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS. COORDINATE WITH
- REFER TO SHEETS S1.5-S1.8 FOR STAIRTOWER PLANS, SECTIONS, AND DETAILS.
 FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER.
- 7. PLAN 1/S1.3 REPRESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND
- 8. USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED. 9. SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE
- 10. SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING.
 11. SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH
- ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS 3/S3.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
- 14. ALL TOPPING ON TEES AND POURSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. 15. ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (P/C DOUBLE TEE)
- DOES NOT INCLUDE THE HEIGHT OF WASH/CURB.) REFER TO PLAN ELEVATION KEY FOR ADD'L. 16. [] DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS

	Drawing Title SECOND TIER STRUCTURAL PLAN - NEW WORK	Project Title VA MEDICA EXPAND V PARKING (Project Number 688-345 Building Number - Drawing Number		
15	Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			
		Date	Checked	Drawn	S1.3
		02/16/15	NCA	BSS	Dwg. 44 of 89
6	7	8			9

EDUCT ALTERNATES (ALT.)		
SE: Perforated metal screen with accent lighting as shown on e drawings. DUCT: Delete perforated metal screen and supporting		
ucture as shown on Drawing(s) 05/A2.1 and 03/A2.2, delete cent lighting as shown on Drawings(s) 01/A2.4, 02/A2.4, /A5.2 and 02/E1.4		
EDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES		
EDUCT: Delete exposed aggregate finish on concrete floor as bwn in Drawing(s) 01/A3.1, 01/A3.2, 04/A5.2 and 05/A5.2 and patitute agent the two finish delete agenced matel agence finish on concrete floor as		
shown on Drawing(s) A4.1 and A4.2, provide substitute light ures as shown on fixture schedule E0.0 and Drawing(s) A4.1		
DUCT ALT. #3 - SITE IMPROVEMENTS		A
SE: All site work shown on the drawings. DUCT: Provide only the site work shown on Drawing(s) /CS3.1 and CS3.2.		
DUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS		
awings. DUCT: Provide only the landscape work and site furnishings own on Drawing(s) 01/LP7.0 and LP7.1.		
EDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES		
d hardware schedule. DUCT: Provide manual door closer as specified in Spec ction(s) 087100. Delete electrical feeds shown on Drawing(s)		
/E2.1, 01/E2.4 and 02/E2.4.		
SE: All card readers shown on the drawings and hardware nedule. DUCT: Provide manual door locks/latches as specified in Spec		
ctions(s) 087100. Delete electrical feeds shown on Drawing(s) /E2.2, 01/E2.4 and 02/E3.2.		
DUCT ALT. #7 - BARRIER CABLE SYSTEM SE: Barrier cable system as shown on the drawings.		В
Drawing(s) A2.1, A2.2 and 06/A2.4.		
<u>IDECTALL #6 – CRASH BARRIER, BOLLARDS AND SECORTY</u> <u>ITES</u> SE: All crash barriers, bollards, and security gates shown on		
e drawings. EDUCT: Delete all crash barriers, bollards, and security gates own on Drawing(s) 01/CS3.0, 04/LP7.1 and 05/LP7.1.		
DUCT ALT. #9 - SITE FENCING SE: All site fencing shown on the drawings.		
EDUCT: Delete all site fencing shown on Drawing(s) 01/CS3.0 d 08/LP7.1.		
DUCT ALT. #10 -INTERIOR GARAGE BARRIER FENCING SE: All cable type barrier fencing shown on the drawings. DUCT: Provide chain link barrier fencing shown on Drawing(s)		
.1 and 06/S3.3. DUCT ALT. #11 - SECURITY CAMERAS		
SE: Security cameras as shown on the drawings. DUCT: Delete security cameras and appurtenances (conduit, iction boxes, and power) shown on Drawing(s) E3.3, E3.4 and		
E3.5.		С
SE: LED lighting as shown on the drawings. DUCT: Provide substitute light fixtures as shown on fixture nedule E0.0 and as shown on Drawing(s) E1.4. E1.5 and E1.6.		
EDUCT ALT. #13 - SECURITY BOOTH		
EDUCT: Delete security booth and appurtenances shown on awing(s) A4.3, 02/E1.4, 03/E2.2 and 01/E2.3.		
EDUCT ALT. #14 - PARKING TIERS SE: 2-1/2 new tiers parking tiers as shown on the drawings.		
awing(s) 02/A1.2, 02/A1.6, A2.1, A2.2, 01/S1.5, 02/M1.3, /P1.3, 03/FP1.3, 02/E1.6, 02/E2.4 and 02/E3.4.		
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		CONSULTANTS:	
4 100% Submission 3 95% Submission 2 65% Submission 1 35% Submission	2/16/15 8/28/14 8/07/14 4/15/14	ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210 STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	PARKING CONSULTANT Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422 MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

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	SEAL:	ARCHITECT/ENGINEERS:		Drawing Title THIRD TIER STRUCTURAL PLAN - NEW	Project Title	AL CENTE	R	Project Number 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc.	Melville Thomas Architects, Inc.			WORK	EXPAND V PARKING	AND VISITOR/PATIENT		Building Number
Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		MTARX	IIMHaans	Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Drawing Number
		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com		-	Date 02/16/15	Checked NCA	Drawn BSS	S1.4 Dwg.45 of 89
3	4	5	6	7	8			9

BASE ELEVATION = 223'-0"

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TYPICAL TIER SHEET NOTES:

 REFER TO SHEET S0.1 FOR GENERAL NOTES.
 REFER TO SHEET S3.1 FOR PRECAST TEE DETAILS. 3. REFER TO SHEET S3.2 FOR COLUMN DETAILS.

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- 4. REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS. COORDINATE WITH PLUMBING DRAWINGS.
- 5. REFER TO SHEETS S1.5-S1.8 FOR STAIRTOWER PLANS, SECTIONS, AND DETAILS. 6. FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. WARP DOUBLE TEES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION
- DIFFERENCES. 7. PLAN 1/S1.3 REPRESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND NOTES SHOWN ON IT ARE TYPICAL OF EVERY TIER U.N.O.
- 8. USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED. 9. SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE UNIFORM BEARING SURFACES FOR P/C MEMBERS AS REQUIRED, TYP.
- 10. REALTS SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING. 11. SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH WATERPROOFING CONTRACTOR.
- 12. ——— INDICATES TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS 3/S3.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
- 13. — INDICATES WASH LINE. 14. ALL TOPPING ON TEES AND POURSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. YARD OF CONCRETE. 15. ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (P/C DOUBLE TEE) ELEVATIONS AT THE COLUMN CENTERLINE, U.N.O. WITH AN ELEVATION TARGET SYMBOL. (THIS
- DOES NOT INCLUDE THE HEIGHT OF WASH/CURB.) REFER TO PLAN ELEVATION KEY FOR ADD'L. INFO. 16. [] DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION.
- 17. BASE ELEVATIONS REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE CALCULATED BY ADDING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS TIER PRIOR TO PLACING CONCRETE POURSTRIP AND TOPPING.



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EDUCT ALTERNATES (ALT.) EDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS	
e drawings. EDUCT: Delete perforated metal screen and supporting ucture as shown on Drawing(s) 05/A2.1 and 03/A2.2, delete cent lighting as shown on Drawings(s) 01/A2.4, 02/A2.4, /A5.2 and 02/E1.4	
EDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES SE: Elevator finishes as shown on the drawings. EDUCT: Delete exposed aggregate finish on concrete floor as own in Drawing(s) 01/A3.1, 01/A3.2, 04/A5.2 and 05/A5.2 and ostitute smooth trowel finish, delete suspended metal ceilings shown on Drawing(s) A4.1 and A4.2, provide substitute light ures as shown on fixture schedule E0.0 and Drawing(s) A4.1 d A4.2.	А
DUCT ALT. #3 - SITE IMPROVEMENTS SE: All site work shown on the drawings. DUCT: Provide only the site work shown on Drawing(s) (CS3.1 and CS3.2.	
DUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS SE: All landscape work and site furnishings shown on the awings. DUCT: Provide only the landscape work and site furnishings own on Drawing(s) 01/LP7.0 and LP7.1.	
EDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES SE: All automatic door opening devices shown on the drawings d hardware schedule. EDUCT: Provide manual door closer as specified in Spec ction(s) 087100. Delete electrical feeds shown on Drawing(s) (F2 1_01/F2 4_and 02/F2 4_	
DUCT ALT. #6 - CARD READERS SE: All card readers shown on the drawings and hardware hedule.	
EDUCT: Provide manual door locks/latches as specified in Spec ctions(s) 087100. Delete electrical feeds shown on Drawing(s) (E2.2, 01/E2.4 and 02/E3.2.	
DUCT ALT. #7 - BARRIER CABLE SYSTEM SE: Barrier cable system as shown on the drawings. DUCT: Delete barrier cables at exterior openings as shown Drawing(s) A2.1, A2.2 and 06/A2.4.	В
DUCT ALT. #6 – CRASH BARRIER, BOLLARDS AND SECURITY VIES SE: All crash barriers, bollards, and security gates shown on a drawings. EDUCT: Delete all crash barriers, bollards, and security gates pwn on Drawing(s) 01/CS3.0, 04/LP7.1 and 05/LP7.1.	
DUCT ALT. #9 - SITE FENCING SE: All site fencing shown on the drawings. DUCT: Delete all site fencing shown on Drawing(s) 01/CS3.0 d 08/LP7.1.	
DUCT ALT. #10 -INTERIOR GARAGE BARRIER FENCING SE: All cable type barrier fencing shown on the drawings. DUCT: Provide chain link barrier fencing shown on Drawing(s) .1 and 06/S3.3.	
DUCT ALT. #11 - SECURITY CAMERAS SE: Security cameras as shown on the drawings. DUCT: Delete security cameras and appurtenances (conduit, iction boxes, and power) shown on Drawing(s) E3.3, E3.4 and /E3.5.	С
DUCT ALT. #12 - LED LIGHTING SE: LED lighting as shown on the drawings. DUCT: Provide substitute light fixtures as shown on fixture nedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.	
DUCT ALT. #13 - SECURITY BOOTH SE: Security booth as shown on the drawings. DUCT: Delete security booth and appurtenances shown on awing(s) A4.3, 02/E1.4, 03/E2.2 and 01/E2.3.	
DUCT ALT. #14 - PARKING TIERS SE: 2-1/2 new tiers parking tiers as shown on the drawings. DUCT: Delete 1/2 tier and connecting ramp as shown on awing(s) 02/A1.2, 02/A1.6, A2.1, A2.2, 01/S1.5, 02/M1.3,	
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As indicated	
ber Office of Construction	

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Management Department of Veterans Affairs

and Facilities

£ (C)			2	3	
	04 S1.8	.9' - 0"	48' - 0"		47' - 0"
			RAMP DN		
	4 100% Submission 3 95% Submission 2 65% Submission 1 35% Submission Revisions:	2/16/15 2/16/15 8/28/14 8/07/14 4/15/14 Date	CONSULTANTS: OCONSULTANTS: ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210 STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Bue Bell, PA 19422	PARKING COI Tim Haahs & Associa 550 Township Line R Blue Bell, PA 19422 MEP ENGINEE DCS Infrastructure, In 3249 Route 112, Suit Medford, NY 11763	NSULTANT Ites, Inc. oad, Suite 100 ER Inc. e 1B

В

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/A FORM 08-623

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	SEAL:	ARCHITECT/ENGINEERS:	
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	TimHaa

BASE ELEVATION = 234'-6"

TYPICAL TIER SHEET NOTES:

- REFER TO SHEET S0.1 FOR GENERAL NOTES.
 REFER TO SHEET S3.1 FOR PRECAST TEE DETAILS. 3. REFER TO SHEET S3.2 FOR COLUMN DETAILS.
- 4. REFER TO SHEETS S1.1 THROUGH S1.4 FOR FLOOR DRAIN LOCATIONS. COORDINATE WITH PLUMBING DRAWINGS.
- REFER TO SHEETS S1.5-S1.8 FOR STAIRTOWER PLANS, SECTIONS, AND DETAILS.
 FLOOR SLAB SYSTEM IS PRECAST DOUBLE TEES, U.N.O. DOUBLE TEE LAYOUT BY PRECASTER. WARP DOUBLE TEES AS REQUIRED TO PROVIDE A SMOOTH TRANSITION FOR ELEVATION
- DIFFERENCES. 7. PLAN 1/S1.3 REPRESENTS THE TYPICAL TIER PLAN. ALL SECTION CUTS, PLAN DETAILS, AND NOTES SHOWN ON IT ARE TYPICAL OF EVERY TIER U.N.O.
- 8. USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN THOSE INDICATED. 9. SLOPE BEARING PLATES IN BEAM OR SUPPORT PLATES IN COLUMNS/WALLS TO PROVIDE
- UNIFORM BEARING SURFACES FOR P/C MEMBERS AS REQUIRED, TYP. 10. SHADED AREAS DEPICT EXTENT OF C.I.P. TOPPING. 11. SHADED AREAS DEPICT EXTENT OF TRAFFIC DECK COATING. PRECASTER TO COORDINATE TEE FINISH AT SURFACES WHICH WILL RECEIVE TRAFFIC DECK COATING WITH WATERPROOFING CONTRACTOR.
- 12. ——— INDICATES TOOLED JOINT WITH SEALANT. PROVIDE TOOLED JOINT WITH SEALANT ABOVE ALL TEE-TO-TEE JOINTS PER DETAILS 3/S3.1. PROVIDE TRANSVERSE TOOLED JOINT WITH SEALANT OVER EACH CONNECTION ALONG FULL LENGTH OF C.I.P. WASH OR AT 6'-0" O.C.
- 13. — INDICATES WASH LINE. 14. ALL TOPPING ON TEES AND POURSTRIPS TO HAVE CORROSION INHIBITOR AT THE RATE OF 3 GALS./CU. YARD OF CONCRETE AND PROVIDE 1 1/2 POUNDS OF FIBROUS REINFORCING PER CU. YARD OF CONCRETE. 15. ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE TOP OF THE SLAB (P/C DOUBLE TEE)
- ELEVATIONS AT THE COLUMN CENTERLINE, U.N.O. WITH AN ELEVATION TARGET SYMBOL. (THIS DOES NOT INCLUDE THE HEIGHT OF WASH/CURB.) REFER TO PLAN ELEVATION KEY FOR ADD'L. INFO.
- 16. [] DEPICTS LOCATIONS WHERE COLUMNS/WALLS STOP AT FLOOR ELEVATION. 17. BASE ELEVATIONS REPRESENT THE BENCHMARK BY WHICH ACTUAL SPOT ELEVATIONS ARE CALCULATED BY ADDING/SUBTRACTING THE ELEVATIONS SHOWN AT SPECIFIC LOCATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE A MINIMUM OF 8'-4" HEADROOM CLEARANCE BETWEEN ALL DRIVING SURFACES AND OVERHEAD STRUCTURE AT THIS TIER PRIOR TO PLACING CONCRETE POURSTRIP AND TOPPING.



hs	Drawing Title FOURTH TIER STRUCTURAL PLAN - NEW WORK	Project Title VA MEDIC EXPAND PARKING	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1			
	Approved: Project Director	Location 50 IRVING ST. I	Drawing Nur			
		Date	Checked	Drawn	= S1.5	
		02/16/15	NCA	BSS	Dwg. 46	

DEDUCT ALTERNATES (ALT.)	
ASE: Perforated metal screen with accent lighting as shown on he drawings. DEDUCT: Delete perforated metal screen and supporting tructure as shown on Drawing(s) 05/A2.1 and 03/A2.2, delete iccent lighting as shown on Drawings(s) 01/A2.4, 02/A2.4, 1/A5.2 and 02/E1.4	
DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES BASE: Elevator finishes as shown on the drawings. DEDUCT: Delete exposed aggregate finish on concrete floor as hown in Drawing(s) 01/A3.1, 01/A3.2, 04/A5.2 and 05/A5.2 and ubstitute smooth trowel finish, delete suspended metal ceilings is shown on Drawing(s) A4.1 and A4.2, provide substitute light xtures as shown on fixture schedule E0.0 and Drawing(s) A4.1	Δ
IND A4.2. DEDUCT ALT. #3 - SITE IMPROVEMENTS BASE: All site work shown on the drawings. DEDUCT: Provide only the site work shown on Drawing(s) 11/CS3.1 and CS3.2	, (
DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS BASE: All landscape work and site furnishings shown on the Irawings. DEDUCT: Provide only the landscape work and site furnishings	
hown on Drawing(s) 01/LP7.0 and LP7.1. <u>DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES</u> BASE: All automatic door opening devices shown on the drawings and hardware schedule. DEDUCT: Provide manual door closer as specified in Spec Section(s) 087100. Delete electrical feeds shown on Drawing(s) <u>UFE 1</u> , 01/E 2.4 and 02/E 2.4	
DEDUCT ALT. #6 - CARD READERS BASE: All card readers shown on the drawings and hardware chedule. DEDUCT: Provide manual door locks/latches as specified in Spec Sections(s) 087100. Delete electrical feeds shown on Drawing(s)	
2/E2.2, 01/E2.4 and 02/E3.2. DEDUCT ALT. #7 - BARRIER CABLE SYSTEM BASE: Barrier cable system as shown on the drawings. DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06/A2.4.	В
DEDUCT ALT. #8 – CRASH BARRIER, BOLLARDS AND SECURITY GATES BASE: All crash barriers, bollards, and security gates shown on he drawings. DEDUCT: Delete all crash barriers, bollards, and security gates hown on Drawing(s) 01/CS3.0, 04/LP7.1 and 05/LP7.1.	
DEDUCT ALT. #9 - SITE FENCING BASE: All site fencing shown on the drawings. DEDUCT: Delete all site fencing shown on Drawing(s) 01/CS3.0 and 08/LP7.1.	
DEDUCT ALT. #10 -INTERIOR GARAGE BARRIER FENCING BASE: All cable type barrier fencing shown on the drawings. DEDUCT: Provide chain link barrier fencing shown on Drawing(s) 52.1 and 06/S3.3.	
DEDUCT ALT. #11 - SECURITY CAMERAS BASE: Security cameras as shown on the drawings. DEDUCT: Delete security cameras and appurtenances (conduit, unction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 12/E3.5.	С
DEDUCT ALT. #12 - LED LIGHTING BASE: LED lighting as shown on the drawings. DEDUCT: Provide substitute light fixtures as shown on fixture chedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.	
BASE: Security booth as shown on the drawings. DEDUCT: Delete security booth and appurtenances shown on Drawing(s) A4.3, 02/E1.4, 03/E2.2 and 01/E2.3.	
ASE: 2-1/2 new tiers parking tiers as shown on the drawings. DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02/A1.2, 02/A1.6, A2.1, A2.2, 01/S1.5, 02/M1.3, 12/P1.3, 03/FP1.3, 02/E1.6, 02/E2.4 and 02/E3.4.	
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As indicated Office of Construction and Facilities Management Department of Veterans Affairs of 89

three eighths inch = one foot one halt inch = one toot 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PRECAST POLLARD, SEE DETAIL L221.1. PROVIDE TEES TUGH WALL DAPTEES FLUGH WALL DAPTE		A			PROVIDE HAUNCHES FOR FUTURE EXPANSION, TYP.		
one quarter inch = one foot 0 4 8 8	SHEET NOTE: SEE SP 02 STAIR #1 - SECOND TIER PLAN 1/4" = 1'-0"	EET A3.2 FOR STAIR AND RAILING INFORMATION. BASE ELEVATION = 211'-6"		04	4 STAIR #1 - FOURTH TIER PLAN		BASE ELEVATION = 234'-6"	
	CONSULTANTS:	SEAI tant cost estimator	_:	ARCHITECT/ENGINEERS: Melville Thomas Architects, Inc.		Drawing Title ELEVATOR/STAIR TOWER #1 STRUCTURAL PLANS	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT	Project Numbe 688-345 Building Numb
one eighth inch = on: 0 4 8 0 4 8	Melville Thomas Architects, Inc. Tim Haahs & Associates, Inc. Melville Thomas Architects, Inc. Tim Haahs & Associates, Inc. 600 Wyndhurst Avenue, Suite 315 550 Township Line Road, Su Baltimore, MD 21210 Blue Bell, PA 19422 4 100% Submission 8/28/14 3 95% Submission 8/28/14 2 65% Submission 8/07/14 Revisions: Date	DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	TimHaahs	Approved: Project Director - - -	PARKING GARAGE - PHASE 1 Location 50 IRVING ST. N.W. WASHINGTON, D.C. Date 02/16/15	Drawing Numb
	VA FORM 08-6231	3	4	5	6	7	8	9



01 STAIR #1 - GROUND TIER PLAN 1/4" = 1'-0"



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three quarte



BASE ELEVATION = 200'-0"

- ---- (A)









Revisions:

VA FORM 08-6231

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	SEAL:	ARCHITECT/ENGINEERS:	Drawing Title ELEVATOR/STAIR TOWER#1	Project Title	CAL CENTE	R	Project Numb 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300	Melville Thomas Architects, Inc.	Melville Thomas Architects, Inc.	ELEVATION & SECTIONS	EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1			Building Num
Columbia, MD 21044		MTARX	Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGT(ON, D.C.	Drawing Num
KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	-	Date 02/16/15	Checked NCA	Drawn BSS	Dwg. 48

3 6 8



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TO 211'-4" — EXISTING TEE & CURB

CUT EXISTING PRECAST

PRECAST STAIR TOWER WALL, TYP.

- PRECAST TEE, TYP.



	SEAL:	ARCHITECT/ENGINEERS:	
COST ESTIMATOR		Melville Thomas Architects, Inc.	
DMS Construction Consulting Services, Inc.		ARCHITECTURE & PLANNING	
5550 Sterrett Place, Suite 300			Time
Columbia, MD 21044		MTARX	ΙΠΠαα
CIVIL ENGINEER			
KCI Technologies, Inc.			
936 Ridgebrook Road		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210	
Sparks, MD 21152		T: 410.433.4400 F: 410.433.4719	
		www.mtarx.com	

S	Drawing Title ELEVATOR/STAIR TOWER #2 STRUCTURAL PLANS	Project Title VA MEDIC EXPAND \ PARKING	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1		
	Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Drawing Numb
		Date	Checked	Drawn	ןׂS1.8
		02/16/15	NCA	BSS	Dwg. 49





Date

Revisions:

VA FORM 08-6231

Blue Bell, PA 19422

Medford, NY 11763



	SEAL:	ARCHITECT/ENGINEERS:			CAL CENTE	R	Project Numb 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc.		Melville Thomas Architects, Inc.	ELEVATION & SECTION		VISITOR/P	ATIENT	Building Numl
5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER		MTARX	Approved: Project Director	Location 50 IRVING ST.	N.W. WASHINGT	ON, D.C.	Drawing Num
KCI Technologies, Inc. 936 Ridgebrook Road		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210	-	Date	Checked	Drawn	− S1.9
Sparks, MD 21152		T: 410.433.4400 F: 410.433.4719 www.mtarx.com		02/16/15	NCA	BSS	Dwg. 50

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VA FORM 08-623

	SEAL:	ARCHITECT/ENGINEERS:	LIGHTWALL & SHEARWALL SECTION	S VAMEDI	CAL CENTE	R	Project Number
COST ESTIMATOR DMS Construction Consulting Services, Inc.		Melville Thomas Architects, Inc.		EXPAND PARKING	VISITOR/P/ GARAGE -	ATIENT · PHASE 1	Building Numb
Columbia, MD 21044		MTARX	Approved: Project Director -	Location 50 IRVING ST.	N.W. WASHINGT	ON, D.C.	Drawing Numb
KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	-	Date 02/16/15	Checked NCA	Drawn BSS	S2.1

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	As indicated
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ber	Construction
	and Facilities
ber	Management
of 89	Department of Veterans Affairs

B
6'-6"
TOP OF WALL @ GRIDS 2&3 EL. = 238'-0"
PROVIDE BLOCKOUTS FOR FUTURE VERTICAL EXPANSION WHERE REQ'D
TOP OF WALL @ GRIDS 4-7 EL. = 234'-3"
4' - 0" PROVIDE CONNECTIONS FOR EXPANSION, TYP., SEE DETAIL 9/S3.3
A SRD TIER
PROVIDE 7"x11" BLOCKOUT FOR DRAINAGE; ALIGN WITH TEE ELEVATIONS AND WASH LINES, TYP., SEE STRUCTURAL PLANS
P/C TEE, TYP.
P/C LIGHTWALL
12" P/C SHEARWALL
EXISTING SHEARWALL
ITERIOR SHEARWALL ELEVATION



		CONSULTANTS:	
		ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210	PARKING CONSULTAN Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422
4 100% Submission	2/16/15	STRUCTURAL ENGINEER	MEP ENGINEER
3 95% Submission	8/28/14	Tim Haahs & Associates, Inc.	DCS Infrastructure, Inc.
2 65% Submission	8/07/14	- 550 Township Line Road, Suite 100	3249 Route 112, Suite 1B
Revisions:	Date		Weddivia, WETT700

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	SEAL:	ARCHITECT/ENGINEERS:	
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		Melville Thomas Architects, Inc. ARCHITECTURE & PLANNING 600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	TimHaa

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	Drawing Title WALL SECTIONS & SPANDREL DETAILS	Project Title VA MEDIC EXPAND \ PARKING	AL CENTEI /ISITOR/PA GARAGE -	R TIENT PHASE 1	Project Numb 688-345 Building Num -
15	Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Drawing Num
		Date	Checked	Drawn	= S2.2
		02/16/15	NCA	BSS	Dwg. 52

	Date	
1		2

2/16/15

8/28/14

8/07/14

100% Submission

95% Submission

65% Submission

4

3

Revisions:

VA FORM 08-6231

STRUCTURAL ENGINEER

550 Township Line Road, Suite 100

Tim Haahs & Associates, Inc.

Blue Bell, PA 19422

1

2

3

4

MEP ENGINEER

DCS Infrastructure, Inc.

Medford, NY 11763

3249 Route 112, Suite 1B

	SEAL:	ARCHITECT/ENGINEERS:	
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		Melville Thomas Architects, Inc. ARCHITECTURE & PLANNING 600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 www.mtarx.com	TimHaa

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ans	Drawing Title WALL SECTIONS	Project Title VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1			Project Numbe 688-345 Building Numb -
	Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Drawing Num
	-	Date	Checked	Drawn	S2.3
		02/16/15	NCA	BSS	Dwg. 53

9

12' - 0" NOMINAL.

PLAN

7 3/4" NOM.

4 3/4" NOM.

PRE-TOPPED SECTION

EQ.

3" CHAMFER, TYP.

ENDS, TYP.

EQ.

3"x6" BLOCKOUT, TYP.

MIN. (2) PER TEE STEM

- W.W.R. 12x4-W4xW4 MIN. AT

MID-DEPTH OF FLANGE

BLOCKOUT AS REQ'D

TEE STEM BLOCKOUT, TYP.

APPLY CORROSION-RESISTANT

PAINT OR SEALER TO STRAND

SEE PLAN

100% Submission

95% Submission

65% Submission

35% Submission

levisions:

/A FORM 08-623

ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 STRUCTURAL ENGINEER 550 Township Line Road, Suite 100

PARKING CONSULTANT Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422

MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763

Baltimore, MD 21210 2/16/15 8/28/14 Tim Haahs & Associates, Inc. 8/07/14 4/15/14 Blue Bell, PA 19422 Date

1

2

	SEAL:	ARCHITECT/ENGINEERS:		Drawing Title PRECAST TEE DETAILS	Project Title	CAL CENTEI	R	Project Numb 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place. Suite 300		Melville Thomas Architects, Inc.			EXPAND PARKING	VISITOR/PA GARAGE -	TIENT PHASE 1	Building Numb
Columbia, MD 21044	MTARX	limHaans	S Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Drawing Numb	
KCI Technologies, Inc. 936 Ridgebrook Road		400 Wordburst Ave. Suite 215 Retimere AD 21210		-	Date	Checked	Drawn	∃ S3.1
Sparks, MD 21152		T: 410.433.4400 F: 410.433.4719 www.mtarx.com		-	02/16/15	NCA	BSS	Dwg. 54

P/C STACKWALL - COVE SEALANT - NON-PRIMING JOINT SEALANT - SLOTTED CONN./ ANCHOR WITH HORIZ. SLOT WITH 1 1/2" MIN. SLOT TOLERANCE - GALV. LOOSE PL. 3/8" x 4" x 4" - (2) #5x3'-0" WELDED TO

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	SEAL:	ARCHITECT/ENGINEERS:		Drawing Title PRECAST COLUMN PLAN DETAILS	Project Title		R	Project Numb 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc.		Melville Thomas Architects, Inc.			EXPAND PARKING	VISITOR/PA GARAGE -	ATIENT PHASE 1	Building Num
Columbia, MD 21044		MTARX	limHaans	Approved: Project Director	Location 50 IRVING ST. I	N.W. WASHINGTC	DN, D.C.	Drawing Num
KCI Technologies, Inc. 936 Ridgebrook Road		600 Wyndhurst Ave., Suite, 31.5, Baltimore, MD 21210		-	Date	Checked	Drawn	⊣ S3.2
Sparks, MD 21152		T: 410.433.4400 F: 410.433.4719 www.mtarx.com			02/16/15	NCA	BSS	Dwg. 55

- 6. USE 3/4"Øx2'-6" COIL RODS AT TYPICAL COIL ROD/INSERT CONNECTIONS

Ε	Τ	R	IC

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As indicated Office of Construction and Facilities Management Veterans Affairs Department of of 89

no foot	NOTE: COORD. WITH ELECTRICAL DW FOR LOCATIONS OF LIGHT POLES.	GS.		NOTE: COORD. WITH ELECTRICAL DWGS. FOR LOCATIONS OF LIGHT POLE	S.	2 ^{.6} "
one quarter inch	11 <u>TYPICAL LIGHTPOLE SI 3/4" = 1'-0"</u>	ECTION AT	COLUMN	— 12 <u>TYPICAL LIGH</u> 1/2" = 1'-0"	POLE SECTION AT LIC	HTWALL
one eighth inch = one foot 0 4 8 16 0 4 B 16	4 100% Submission 3 95% Submission 2 65% Submission 1 35% Submission Revisions: 2000	2/16/15 2/16/15 8/28/14 8/07/14 4/15/14 Date	CONSULTANTS: ARCHITECT Melville Thomas Architects, Inc. 600 Wyndhurst Avenue, Suite 315 Baltimore, MD 21210 STRUCTURAL ENGINEER Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422	PARKING CONSULTANT Tim Haahs & Associates, Inc. 550 Township Line Road, Suite 100 Blue Bell, PA 19422 MEP ENGINEER DCS Infrastructure, Inc. 3249 Route 112, Suite 1B Medford, NY 11763	COST ESTIMATOR DMS Construction Consulting Service 5550 Sterrett Place, Suite 300 Columbia, MD 21044 CIVIL ENGINEER KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152	s, Inc.
	VA FURM U8-6231		2		3	

SEAL: ARCHITECT/ENGINEERS: Melville Thomas Architects, Inc. COST ESTIMATOR ARCHITECTURE & PLANNING DMS Construction Consulting Services, Inc. TimHaa 5550 Sterrett Place, Suite 300 Columbia, MD 21044 MTAR **CIVIL ENGINEER** KCI Technologies, Inc. 936 Ridgebrook Road 600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719 Sparks, MD 21152 www.mtarx.com

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	PRECAST SECTION DETAILS		CAL CENTE VISITOR/PA GARAGE -	R TIENT PHASE 1	Project Nun 688-345 Building Nu -	
S	Approved: Project Director -	Location 50 IRVING ST. N.W. WASHINGTON, D.C.			Drawing Nur	
		Date	Checked	Drawn	− S3.3	
		02/16/15	NCA	BSS	Dwg. 56	

	Drawing Title	Project Title			Project Numbe
	PRECAST SECTION DETAILS	VA MEDICAL	CENTER		688-345
		EXPAND VISI	TOR/PAT	IENT	Building Numb
		PARKING GA	RAGE - P	HASE 1	-
5	Approved: Project Director				Drawing Numb
	-	50 IRVING ST. N.W. V	VASHINGTON,	D.C.	$c_{2,2}$
		Date	Checked	Drawn	33.3
		02/16/15	NCA	BSS	Dwg. 56

	As indicated
er	Office of
per	Construction and Facilities
per	Management
	Department of
of 89	Veterans Affairs

- 1/4" DIA. x 1 5/8" ANCHOR BOLT - HUB CONNECTION IS

- TOOLED JOINT WITH

TOP OF COLUMN AT TOP TIER LIGHT POLE LOCATIONS, SEE DET. 10/S3.3 COVE SEALANT AROUND COLUMN 3"x6" BLOCKOUT TO ALIGN WITH CENTERLINE OF FIRST TEE FROM EACH END OF BEAM TEE/BEAM CONN. BY PRECASTER SEE PLAN ✓ 11/2" MIN. CL. P/C TEE, TYP. 1/2" R.O.F. BRG. PAD, TYP. P/C IT GIRDER 1/2" COTTON DUCK FABRIC BRG. PAD P/C HAUNCH BEYOND

F

	SEAL:	ARCHITECT/ENGINEERS:	Drawing Title PRECAST DETAILS	Project Title	CAL CENTEI	R	Project Numbe 688-345
COST ESTIMATOR DMS Construction Consulting Services, Inc. 5550 Sterrett Place. Suite 300		Melville Thomas Architects, Inc.		EXPAND PARKING	VISITOR/PA GARAGE -	TIENT PHASE 1	Building Numb
Columbia, MD 21044		MTARX IIMHAans	Approved: Project Director -	Location 50 IRVING ST.	N.W. WASHINGTO	N, D.C.	Drawing Numl
KCI Technologies, Inc. 936 Ridgebrook Road Sparks, MD 21152		600 Wyndhurst Ave, Suite 315 Baltimore, MD 21210 T: 410.433.4400 F: 410.433.4719	-	Date 02/16/15	Checked	Drawn BSS	S3.4

ber	Construction and Facilities Management		
er			
	4	F 41 5	9
		E	
		D	
G DETAIL			
A TO BE REMOVED FOF NING IN FUTURE FICAL EXPANSION LED JOINT TO DEFINE JRE OPENING METER, TYP. VALL	2		
2"xCONT. MASONITE C WALL PANEL		С	
		_	