GENERAL STRUCTURAL & CONSTRUCTION NOTES

GENERAL CONSTRUCTION WORK
THE FOLLOWING GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE STRUCTURAL DRAWINGS ONLY. THESE NOTES ARE PROVIDED FOR CONVENIENCE AND ARE SUPPLEMENTAL TO THE SPECIFICATIONS.

GENERAL

1. JOB SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. CODE: ALL CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE GOVERNING (IBC) INTERNATIONAL BUILDING CODE, ITS SUPPLEMENTS AND THE COUNTY SUPPLEMENT.
3. TYPICAL SECTIONS AND DETAILS: ALL SECTIONS, DETAILS AND NOTES ARE INTENDED TO BE TYPICAL UNLESS OTHERWISE DETAILED. SHOP AND ERECTION DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL SHOW APPLICATION OF TYPICAL SECTIONS AND DETAILS FOR SIMILAR SITUATIONS.
4. OPENINGS AND EMBEDDED ITEMS: ALL CURBED AND OTHER OPENINGS, EQUIPMENT BASES, DEPRESSIONS, FRAMES, CASTINGS, PIPE SLEEVES, CONDUITS, INSERTS, EDGE PROTECTION, ANCHOR BOLTS AND SIMILAR ITEMS SHALL BE PROVIDED, LOCATED AND INSTALLED AS SHOWN ON APPROVED SHOP DRAWINGS FOR MANUFACTURED ITEMS AND OTHER TRADES.
5. VERIFY EXISTING UNDERGROUND UTILITIES. INFORM AND OBTAIN REQUIRED PERMITS FROM OWNERS OF SUCH UTILITIES BEFORE STARTING ANY WORK.
6. THE CONTRACTOR SHALL COORDINATE NEW EQUIPMENT STRUCTURES SHOWN ON THE CONTRACT DRAWINGS WITH MANUFACTURER'S APPROVED SHOP DRAWINGS. ALL DIMENSIONS, DETAILS AND STRUCTURAL DESIGN REVISIONS REQUIRED TO ACCOMMODATE APPROVED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.

STRUCTURAL DESIGN CRITERIA

1. PROPOSED WORK IS DESIGNED AND SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FOLLOWING CODES AND STANDARDS:
   A. GOVERNING BUILDING CODE: (IBC) INTERNATIONAL BUILDING CODE.
   B. ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318–05.
   C. AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 9TH EDITION.
   D. AWS STRUCTURAL WELDING CODES – D1.1 AND D1.4, 2006 EDITIONS.
   E. STEEL DECK INSTITUTE DESIGN MANUAL, 1996 EDITION.
   F. APPLICABLE STATUES AND REGULATIONS OF FEDERAL, STATE AND LOCAL JURISDICTIONS.
2. DESIGN LOADS:
   A. LIVE LOADS

OFFICE	60 PSF
2ND FLOOR CORRIDOR	80 PSF
STAIR/LOBBY	100 PSF
MECHANICAL ATTIC	INDICATED WEIGHT OF EQUIPMENT

   B. SEISMIC

ZONE B		
IMPORTANT FACTOR Ie		1.00
SITE CLASS D		
SITE COEFFICIENT,	Fa	1.6
SITE COEFFICIENT,	Fv	2.4

EXISTING CONDITIONS

1. ALL DIMENSIONS, ELEVATIONS AND PHYSICAL CONDITIONS SHOWN ON THE DRAWINGS FOR EXISTING STRUCTURES ARE BASED ON LIMITED FIELD INSPECTIONS AND OTHER AVAILABLE SOURCES. SUCH DEPICTIONS OF EXISTING CONSTRUCTION ARE INTENDED TO BE GENERAL, APPROXIMATE AND LIMITED TO THOSE AREAS FOR WHICH WORK IS REQUIRED, AND ARE PROVIDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. PRIOR TO BIDDING, CONDUCT A CAREFUL EXAMINATION OF EXISTING CONDITIONS AT THE SITE APPLICABLE TO THE WORK.
2. THE EXACT EXTENT OF THE CONSTRUCTION WORK CANNOT BE NECESSARILY OR ACCURATELY DETERMINED PRIOR TO COMMENCEMENT OF WORK. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS, MATERIAL QUANTITIES AND EXTENT OF THE MODIFICATION WORK SHOWN ON CONTRACT DRAWINGS. PERFORM THE WORK TO MEET FIELD CONDITIONS ENCOUNTERED.
3. EXAMINE AND FIELD VERIFY ALL EXISTING AND GIVEN DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK AND FABRICATION OF CONSTRUCTION MATERIALS. REPORT VARIANCES FROM THE DRAWINGS AND SPECIFICATIONS AND POTENTIAL INTERFERENCES PROMPTLY TO THE ENGINEER. INCORPORATE ACTUAL FIELD CONDITIONS AND DIMENSIONS IN THE WORK AND INDICATE CHANGES AND ADJUSTMENTS ON DRAWINGS SUBMITTED FOR APPROVAL.

CONSTRUCTION OPERATIONS

1. NOTIFY THE ENGINEER OF ANY CONFLICT ON CONTRACT DRAWINGS DURING BID. IN CASE OF CONFLICT IN THE CONTRACT DRAWINGS OR THE PROJECT SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
2. AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR MAY NOT SUBMIT ANY CLAIM ALLEGING INSUFFICIENT DATA, INCORRECTLY ASSUMED CONDITIONS, OR MISUNDERSTANDING WITH REGARD TO MATTERS FOR WHICH NO SUCH CLARIFICATION WAS SOUGHT DURING THE BIDDING PHASE OF THE PROJECT, AS DESCRIBED FURTHER IN THE GENERAL CONDITION CONTRACT.
3. ASSUME AN ABSOLUTE OBLIGATION TO PROTECT EXISTING STRUCTURES AND EQUIPMENT, NEW WORK AND THE GENERAL PUBLIC FROM DAMAGE, LOSS OR INJURY RESULTING FROM THE CONTRACTOR'S OPERATIONS. IN THE EVENT OF SUCH DAMAGE OR LOSS, PROMPTLY REPLACE OR RESTORE THE WORK TO AN EQUIVALENT QUALITY TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE OWNER.
4. REMOVE TO THE EXTENT INDICATED AND PROPERLY DISPOSE OF EXISTING STRUCTURES AND MATERIALS TO BE DEMOLISHED IN ACCORDANCE WITH THE SPECIFICATIONS.
5. EXCAVATIONS WHICH MAY UNDERMINE EXISTING STRUCTURES TO REMAIN SHALL BE BRACED BY A SUITABLE EXCAVATION SUPPORT SYSTEM DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPROVED BY THE ENGINEER. DESIGN SHALL BE PERFORMED BY A QUALIFIED PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF WHICH THE PROJECT IS LOCATED.
6. ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. SUCH SITE VISITS ARE NOT TO BE CONSTRUED AS MEETING ANY INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.
7. RFI & RFC ARE REQUIRED TO BE COMMUNICATED FORMALLY AND IN WRITING TO THE ENGINEER AS PROVIDED IN THIS GENERAL NOTES. THE PURPOSE OF THIS POLICY IS TO AVOID COMMUNICATION WITH UNAUTHORIZED PERSONS AND TO MINIMIZE MISINFORMATION AND SPECULATION. THE ENGINEER WILL NOT RECOGNIZE AND CANNOT BE OBLIGATED TO ANY REQUEST THAT HAS NOT BEEN COMMUNICATED IN THE MANNER SET FORTH ABOVE. THE ENGINEER CANNOT BE RESPONSIBLE FOR ANY MISCOMMUNICATION OR MISINFORMATION OBTAINED IN VIOLATION OF THIS POLICY AND RESERVES THE RIGHT TO REJECT ANY REQUEST IN THE EVENT THAT ANY PERSON FAILS TO ADHERE TO THIS POLICY.

MATERIALS OF CONSTRUCTION – STRUCTURAL

1. FOR DETAILED REQUIREMENTS AND SPECIFIED PRODUCTS SEE SPECIFICATIONS.
2. FOR REQUIRED FINISH AND PROTECTIVE COATING OF MATERIALS SEE SPECIFICATIONS.
3. CAST–IN–PLACE CONCRETE:
   A. ALL CONCRETE SHALL BE NORMAL WEIGHT AGGREGATE UNLESS OTHERWISE NOTED, OR SPECIFIED. CONCRETE SHALL CONFORM TO THE FOLLOWING TABLE:

USAGE	USAGE 28–DAY STRENGTH (PSI)	MAX WATER/CEMENT RATIO	CONCRETE SPECIFICATION
FLOOR DECK	4000	.45	NORMAL WEIGHT
ALL OTHER CONC.	4000	.40	NORMAL WEIGHT

   B. WORKABILITY ADMIXTURES MAY BE UTILIZED, PROVIDED THAT BATCH PROPORTIONS ARE DETERMINED IN THE MANNER DESCRIBED IN THE SPECIFICATIONS.
   C. USE OF ACCELERATING OR SET–RETARDING ADMIXTURES REQUIRES PRIOR APPROVAL OF THE ENGINEER. USE OF CALCIUM CHLORIDE WILL NOT BE PERMITTED.
   D. ALL CEMENT SHALL BE PORTLAND TYPE I OR II.
4. CONCRETE REINFORCEMENT:
   A. REINFORCING BARS – ASTM A615–96A, GRADE 60, UNCOATED FINISH, UNLESS OTHERWISE NOTED, OR SPECIFIED.
   B. WELDED WIRE FABRIC – ASTM A185, UNCOATED FINISH UNLESS OTHERWISE NOTED OR SPECIFIED.
   C. DETAIL AND FABRICATE REINFORCEMENT IN ACCORDANCE WITH ACI 315 DETAILING MANUAL.
   D. REINFORCING BARS AT SPLICES SHALL BE LAPPED IN ACCORDANCE WITH ACI BUILDING CODE.
   E. MINIMUM CONCRETE COVER FOR REINFORCEMENT:
      A) SURFACES CAST AGAINST SUBGRADE..... 3"
      B) FORMED SURFACES IN CONTACT WITH SOIL OR LIQUID..... 2"
      C) SURFACES NOT IN CONTACT WITH WEATHER, SOIL OR LIQUID.....1–1/2"
   F. ALL REINFORCEMENT SHALL BE ADEQUATELY SECURED IN POSITION PRIOR TO CONCRETE PLACEMENT.
   G. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.
5. EMBEDMENTS:
   A. DOWELS, ANCHOR BOLTS, PIPES AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
   B. CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2–1/2" CLEAR. SUCH ITEMS SHALL NOT EXCEED 1/3 OF THE MEMBER THICKNESS.
6. SPECIAL INSPECTIONS PROGRAM:
   A. CONCRETE (1704.4) MATERIAL
      REINFORCING STEEL
      IN –SITU CONCRETE STRENGTH
   B. EXPANSION BOLTS AND THREADED EXPANSION INSERTS,
   C. SOIL BEARING (1704.7)
7. TIMBER:
   A. DESIGN AND CONSTRUCT TIMBER ELEMENTS IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL STRUCTURAL TIMBER TO BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC'S) CONSTRUCTION MANUAL.
   B. ALL STRUCTURAL TIMBER SHALL BE SOUTHERN PINE, SELECT STRUCTURAL GRADE IN ACCORDANCE WITH THE SOUTHERN PINE INSPECTION BUREAU (SPIB) STANDARD GRADING RULES. MINIMUM ALLOWABLE PROPERTIES:
      Fb = 2,850 PSI Fcll = 2,150 PSI Fv = 100 PSI E = 1,800,000 PSI

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE.
2. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO "STRUCTURAL WELDING CODE ANSI/AWS D1.1", LATEST EDITION, AMERICAN WELDING SOCIETY (AWS).
3. WIDE FLANGE SHAPES: ASTM A992, GRADE 50
4. OTHER STRUCTURAL SHAPES & PLATES: ASTM A36, A572
5. STEEL PIPE: ASTM A53, GRADE B
6. STEEL TUBING: ASTM A500, GRADE B
7. GALVANIZED STRUCTURAL STEEL:
   A. STRUCTURAL SHAPES AND RODS ASTM A123.
   B. BOLTS, FASTENERS AND HARDWARE ASTM A153.
8. ALL BOLTED CONNECTIONS SHALL BE WITH A325 HIGH STRENGTH BOLTS 3/4" MIN. DIAMETER, UNLESS NOTED OTHERWISE.
9. ANCHOR RODS SHALL CONFORM TO ASTM F1554, UNLESS NOTED OTHERWISE.
10. WELDING ELECTRODES SHALL BE E70XX FOR MANUAL ARC WELDING. ALL WELDERS SHALL BE CERTIFIED BY THE AWS. MINIMUM WELD SIZE SHALL BE 3/16" UNLESS NOTED OTHERWISE.
11. CUTS, HOLES, COPING, ETC. REQUIRED FOR OTHER TRADES OR FIELD CONDITIONS SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTTING OR BURNING OF MAIN STRUCTURAL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
12. SUBMIT SHOP DRAWINGS FOR FABRICATION AND ERECTION OF STRUCTURAL STEEL. CLEARLY INDICATE COORDINATED DIMENSIONS. SHOP AND ERECTION DRAWINGS MUST SHOW ALL SHOP/FLOOR AND FIELD WELDS. INITIAL SHOP DRAWING SUBMITTAL SHALL INCLUDE PROPOSED CONNECTION DETAILS AND JOB STANDARDS. PROVIDE SIGNED AND SEALED CALCULATIONS FOR ALL NON–STANDARD CONNECTION DETAILS SHOWING DESIGN CAPACITIES.
13. STEEL MEMBERS SHOWN ON PLAN SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.
14. THE GENERAL CONTRACTOR AND STEEL ERECTOR SHALL NOTIFY THE ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
15. ALTERNATE CONNECTION DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTANCE AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE DETAILS SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS WHICH HE PROPOSES.
16. ALL STRUCTURAL STEEL SHALL BE HOT–DIPPED GALVANIZED PER ASTM A123 AND A153.
17. EXISTING FRAMING REQUIRING WELDING SHALL BE THOROUGHLY CLEANED TO ENSURE PROPER WELDING. PROVIDE TEMPORARY SHORING WHEN WELDING TO EXISTING STEEL.
18. FIELD WELDED SURFACES WITHIN 4 INCHES OF WELD SHALL BE CLEANED AND GROUND SMOOTH. AFTER WELDING COAT THE EXPOSED AREA WITH GALVANIZING REPAIR PAINT. GALVANIZING REPAIR PAINT SHALL BE A HIGH ZINC DUST CONTENT PAINT COMPLYING WITH FEDERAL SPECIFICATIONS DOD–P–21035A OR SSPC–PAINT–20, COLD GALVANIZING COMPOUND BY ZRC PRODUCTS CO. OR EQUAL.
19. GUYS AND OTHER BRACING REQUIRED TO PROVIDE LATERAL STABILITY TO STEEL FRAME SHALL BE ADEQUATELY SIZED AND ANCHORED. THIS BRACING SHALL REMAIN UNTIL PERMANENT BRACING ELEMENTS AND ATTACHED CONSTRUCTION IS INSTALLED.
20. ALL CONNECTIONS SHALL BE FRAMED BEAM CONNECTIONS DESIGNED IN ACCORDANCE WITH THE AISC MANUAL AND HALF OF THE ALLOWABLE UNIFORM LOAD FROM "MAXIMUM TOTAL UNIFORM LOAD" TABLES, BUT NOT LESS THAN 6 KIPS. PROVIDE DOUBLE ANGLE CONNECTIONS FULL DEPTH OF SUPPORTING BEAM, UNLESS OTHERWISE APPROVED. MINIMUM TWO (2) BOLTS PER CONNECTION. SINGLE ANGLE OR SHEAR TAB CONNECTIONS ARE NOT ACCEPTABLE. ALL BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED FOR THE MINIMUM SHEAR REACTION INDICATED ABOVE IN COMBINATION WITH A 10 KIP AXIAL FORCE (ACTING IN BOTH TENSION AND COMPRESSION).
21. VISUALLY INSPECT ALL FILLET WELDS. 10 PERCENT OF ALL FIELD FILLET WELDS IN PRIMARY CONNECTIONS AND MULTI–PASS WELDS SHALL BE TESTED BY THE MAGNETIC PARTICLE METHOD, COMPLYING WITH ASTM E709, PERFORMED ON THE ROOT PASS AND ON THE FINISHED WELD.
22. FIELD TEST BOLTED CONNECTIONS IN ACCORDANCE WITH AISC.
23. ALL CONNECTIONS SHALL BE SYMMETRICAL ABOUT THE AXIS OF THE MEMBER CONNECTED. PROVIDE ONLY ONE GRADE OF BOLT FOR EACH BOLT DIAMETER TO BE USED IN THE CONNECTIONS. DO NOT MIX GRADES OF BOLTS.
24. PROVIDE 1/4" CAP PLATES ON ALL EXPOSED HSS MEMBER ENDS UNLESS NOTED OTHERWISE.

SELECTIVE DEMOLITION NOTES

1. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PERSONS AND DAMAGE TO ADJACENT STRUCTURES, FACILITIES AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PERSONS AROUND SELECTIVE DEMOLITION AREA. LOCATE AND RE–ROUTE ANY EXISTING UTILITY PRIOR TO STARTING THE WORK.
2. DEMOLISH AND REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS, OR AS OTHERWISE NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
3. PROMPTLY PATCH AND REPAIR DAMAGED SURFACES IN ADJOINING CONSTRUCTION TO REMAIN, WHICH ARE CAUSED BY SELECTIVE DEMOLITION OPERATIONS.
4. THE OWNER WILL USE AND OCCUPY PORTIONS OF THE FACILITY AND SITE IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO THAT OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOT LESS THAN 72 HOURS' NOTICE TO THE OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S OPERATIONS.
5. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF COMPONENTS AND SITE ELEMENTS TO BE SELECTIVELY DEMOLISHED.
6. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS OFF–SITE. DO NOT PERMIT DEMOLISHED MATERIALS TO ACCUMULATE ON–SITE. TRANSPORT DEMOLISHED MATERIALS OFF THE OWNER'S PROPERTY AND DISPOSE OF IN A SAFE AND LAWFUL MANNER.

ABBREVIATIONS

A.B.	ANCHOR BOLT	L.P.	LOW POINT
ADDL.	ADDITIONAL	L.W.	LIGHT WEIGHT
A.F.F.	ABOVE FINISH FLOOR	LLH	LONG LEG HORIZONTAL
ALT.	ALTERNATE	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECT	LWB	LONG WAY BOTTOM
B.C.E.	BOTTOM CHORD EXTENSION	M.E.P.	MECHANICAL ELECTRICAL PLUMBING
B.O.	BOTTOM OF	M.S.T.	METAL STUD TRUSS
BLDG.	BUILDING	MAX.	MAXIMUM
BM.	BEAM	MECH.	MECHANICAL
BOTT.	BOTTOM	MEZZ.	MEZZANINE
BRG.	BEARING	MFR.	MANUFACTURER
BSMT.	BASEMENT	MIN.	MINIMUM
BP_	BEARING PLATE	MISC.	MISCELLANEOUS
BTWN.	BETWEEN	MP_	MASONRY PIER
℄	CENTERLINE	NBL	NON BEARING LINTEL
CANT.	CANTILEVER	(N)	NEW
C.J.	CONSTRUCTION JOINT	N.T.S.	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	N.W.	NORMAL WEIGHT
CNTR.	CENTER/CENTERED	o/c	ON CENTER
COL.	COLUMN	P.A.F.	POWDER ACTUATED FASTENER
CONC.	CONCRETE	PL	PLATE
CONN.	CONNECTION	PLUMB.	PLUMBING
CONT.	CONTINUOUS	PC	PILE CAP
COORD.	COORDINATE	P/C	PRECAST
Ø	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH
(E)	EXISTING	PTN.	PARTITON
EA.	EACH	REINF.	REINFORCEMENT
E.F.	EACH FACE	REQ'D.	REQUIRED
EL.	ELEVATION	RET'G.	RETAINING
ELECT.	ELECTRICAL	S.F.	STEP FOOTING
ELEV.	ELEVATOR	S.O.G.	SLAB ON GRADE
EMBED.	EMBEDMENT	SCHED.	SCHEDULE
E.O.D.	EDGE OF DECK	SECT.	SECTION
E.O.S.	EDGE OF SLAB	SIM.	SIMILAR
EQ.	EQUAL	SPECS.	SPECIFICATIONS
EQUIP.	EQUIPMENT	STL.	STEEL
E.W.	EACH WAY	STIFF.	STIFFENER
EWB	EACH WAY BOTTOM	STRUCT.	STRUCTURAL
EWT	EACH WAY TOP	SWB	SHORT WAY BOTTOM
EXIST.	EXISTING	T&B	TOP AND BOTTOM
EXP.	EXPANSION	T.	TOP
EXT.	EXTERIOR	T.O.	TOP OF
FDN.	FOUNDATION	T.O.C.	TOP OF CONCRETE
FIN.	FINISH	T.O.S.	TOP OF STEEL
FLR.	FLOOR	T.S.	THICKENED SLAB
FT.	FEET	TCELE	TOP CHORD EXTENSION LEFT END
FTG.	FOOTING	TCERE	TOP CHORD EXTENSION RIGHT END
GA.	GAGE	TDS	TURN DOWN SLAB
GALV.	GALVANIZED	THK.	THICK OR THICKENED
GB_	GRADE BEAM	TYP.	TYPICAL
H.P.	HIGH POINT	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	V.I.F.	VERIFY IN FIELD
I.F.	INSIDE FACE	VERT.	VERT.
IN.	INCHES	W.R.T.	WOOD ROOF TRUSS
INFO.	INFORMATION	W/	WITH
INT.	INTERIOR	WC	WET COLUMN
JT.	JOINT	WP	WALL PLATE
k	KIP	WWF	WELDED WIRE FABRIC
k–ft	KIP–FEET		

BID DOCUMENTS
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NO.	DESCRIPTION	DATE

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SDVOSB CVE

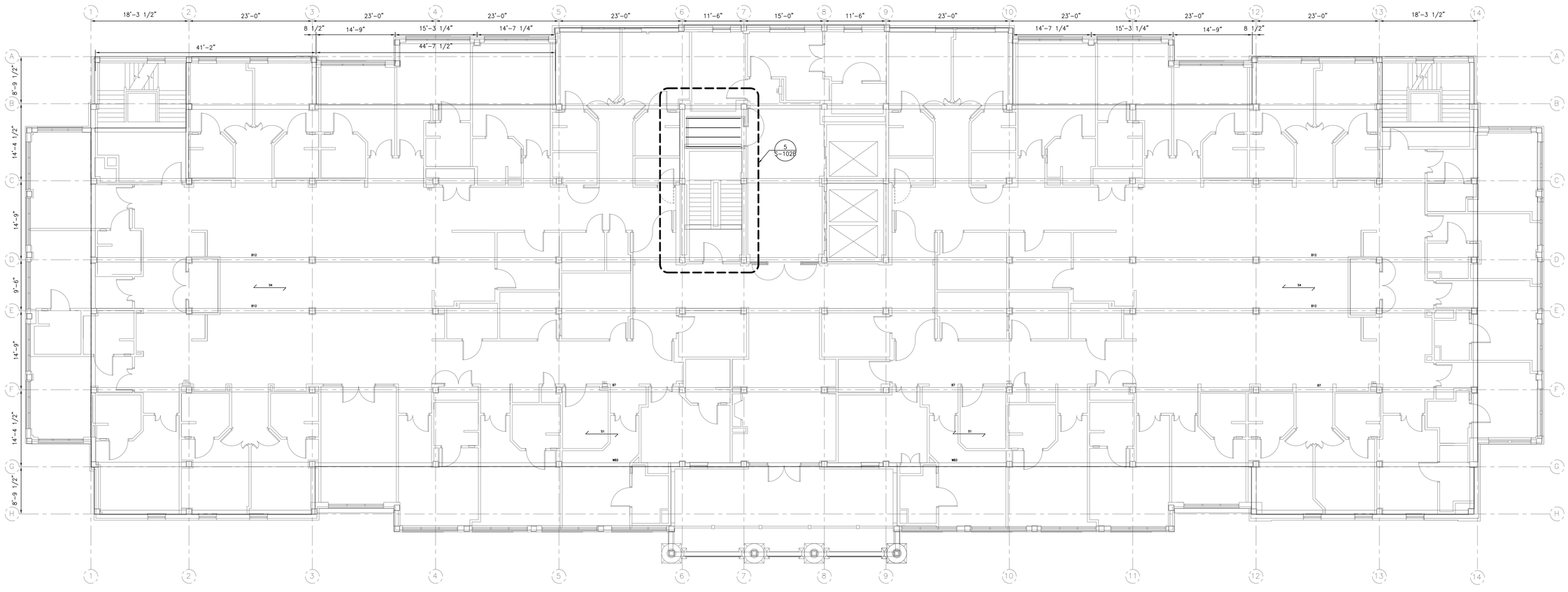
Drawing Title: STRUCTURAL NOTES AND ABBREVIATIONS	Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER	Project Number: 528-A6-13-602	Office of Construction and Facilities Management
Approved: Project Director	Location: VAMC, BATH, NEW YORK	Building Number: BLDG. #78	
	Date: 08-06-2015 / Checked: ST / Drawn: DS	Drawing Number: S-001	Department of Veterans Affairs
		Dwg. 5 of 140	

VA FORM 08-6231

PLAN NORTH
ACTUAL NORTH

GENERAL SHEET NOTE:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.



1 STRUCTURAL – SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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SDVOSB CVE

Drawing Title: STRUCTURAL SECOND FLOOR PLAN

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: ST | Drawn: DS

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

Drawing Number: S-102

Dwg. 6 of 140

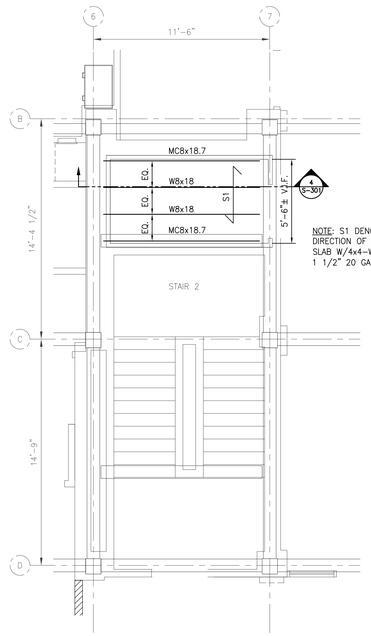
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

PLAN NORTH

ACTUAL NORTH



NOTE: S1 DENOTES SPAN DIRECTION OF 8" CONCRETE SLAB W/4x4-W2.9xW2.9 WWF ON 1 1/2" 20 GA. GALV. STL. DECK

5 ENLARGED PARTIAL FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.

SELECTIVE DEMOLITION NOTES:

1. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PERSONS AND DAMAGE TO ADJACENT STRUCTURES, FACILITIES AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PERSONS AROUND SELECTIVE DEMOLITION AREA. LOCATE AND RE-ROUTE ANY EXISTING UTILITY PRIOR TO STARTING THE WORK.
2. DEMOLISH AND REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS, OR AS OTHERWISE NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
3. PROMPTLY PATCH AND REPAIR DAMAGED SURFACES IN ADJOINING CONSTRUCTION TO REMAIN, WHICH ARE CAUSED BY SELECTIVE DEMOLITION OPERATIONS.
4. THE OWNER WILL USE AND OCCUPY PORTIONS OF THE FACILITY AND SITE IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO THAT OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOT LESS THAN 72 HOURS' NOTICE TO THE OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S OPERATIONS.
5. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF COMPONENTS AND SITE ELEMENTS TO BE SELECTIVELY DEMOLISHED.
6. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS OFF-SITE. DO NOT PERMIT DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. TRANSPORT DEMOLISHED MATERIALS OFF THE OWNER'S PROPERTY AND DISPOSE OF IN A SAFE AND LAWFUL MANNER.

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ARCHITECT/ENGINEERS:

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A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB CVE

Drawing Title	STRUCTURAL SECOND FLOOR - ENLARGED PARTIAL FRAMING PLAN
Approved: Project Director	
Project Title	RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER
Location	VAMC, BATH, NEW YORK
Date	08-06-2015
Checked	ST
Drawn	DS
Project Number	528-A6-13-602
Building Number	BLDG. #78
Drawing Number	S-102B
Dwg. 7 of 140	

Office of Construction and Facilities Management

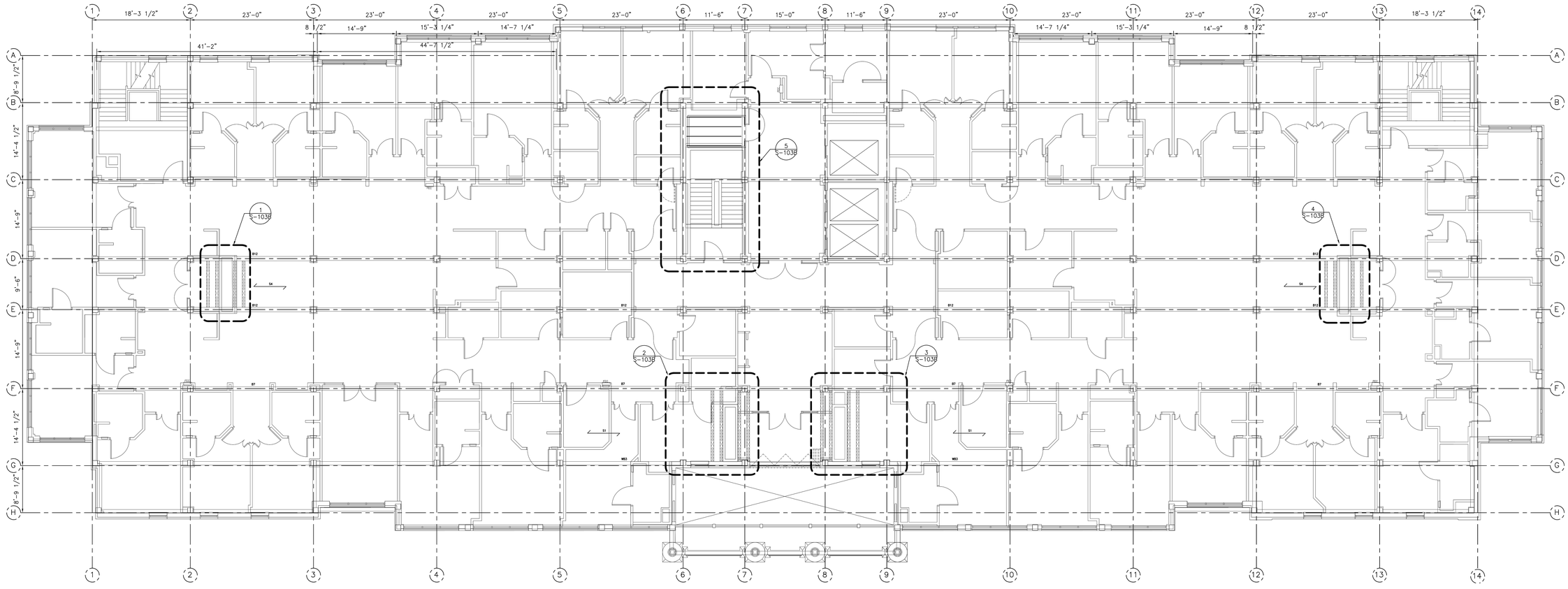
Department of Veterans Affairs

VA FORM 08-6231

PLAN NORTH
ACTUAL NORTH

GENERAL SHEET NOTE:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.



1 STRUCTURAL – THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

GARDNER PLUS
ARCHITECTS, PLLC
40 Wildbriar Road, Rochester NY 14623
585-321-1210 www.gardnerplus.com

KOFFEL ASSOCIATES
Fire Protection ENGINEERS®
8815 CENTRE PARK DRIVE, SUITE 200 COLUMBIA, MD 21045
410-750-2246 (BALT) 410-750-2588 (FAX)
KA PROJECT NUMBER: M023-03

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FAX: (856)429-5002
SDVOSB CVE

Drawing Title: STRUCTURAL THIRD FLOOR PLAN

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: ST | Drawn: DS

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

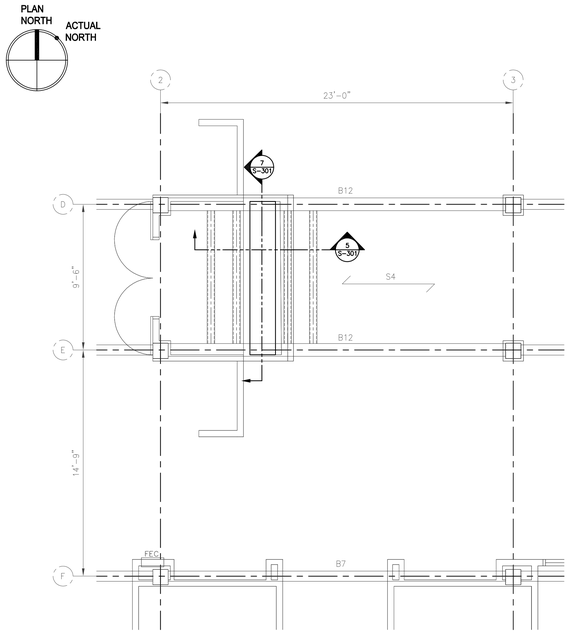
Drawing Number: S-103

Dwg. 8 of 140

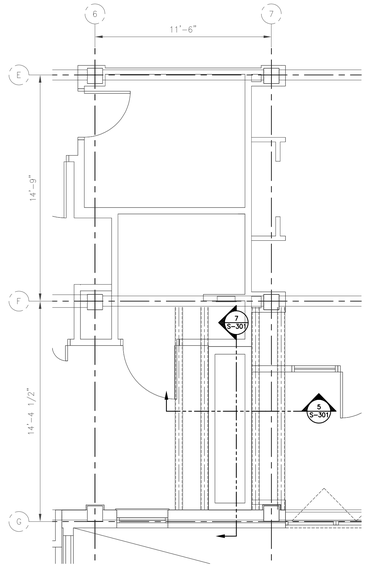
Office of Construction and Facilities Management

Department of Veterans Affairs

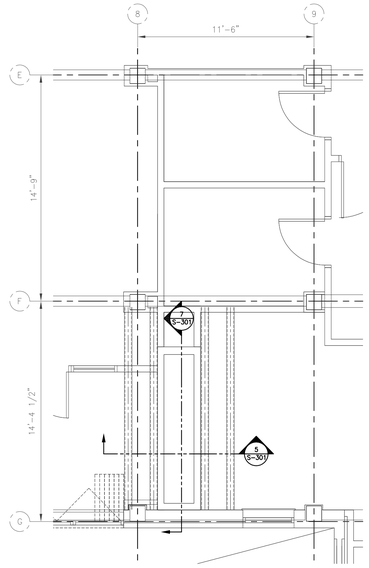
VA FORM 08-6231



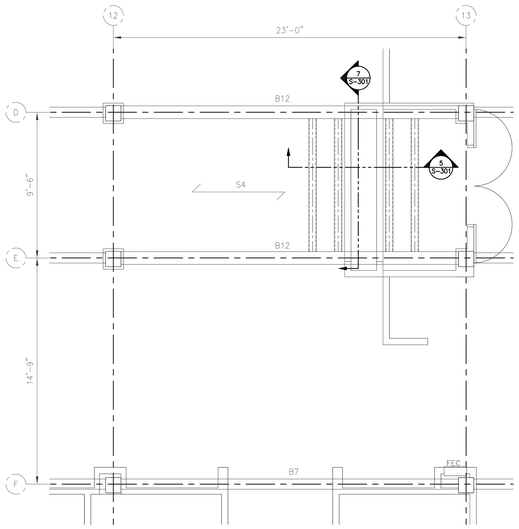
1 ENLARGED PARTIAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



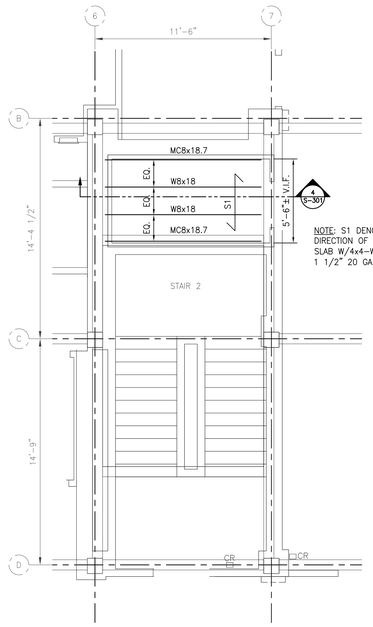
2 ENLARGED PARTIAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



3 ENLARGED PARTIAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



4 ENLARGED PARTIAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



NOTE: S1 DENOTES SPAN DIRECTION OF 8" CONCRETE SLAB W/4x4-W2.9xW2.9 WWF ON 1 1/2" 20 GA. GALV. STL. DECK

5 ENLARGED PARTIAL FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.

SELECTIVE DEMOLITION NOTES:

1. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PERSONS AND DAMAGE TO ADJACENT STRUCTURES, FACILITIES AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PERSONS AROUND SELECTIVE DEMOLITION AREA. LOCATE AND RE-ROUTE ANY EXISTING UTILITY PRIOR TO STARTING THE WORK.
2. DEMOLISH AND REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS, OR AS OTHERWISE NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
3. PROMPTLY PATCH AND REPAIR DAMAGED SURFACES IN ADJOINING CONSTRUCTION TO REMAIN, WHICH ARE CAUSED BY SELECTIVE DEMOLITION OPERATIONS.
4. THE OWNER WILL USE AND OCCUPY PORTIONS OF THE FACILITY AND SITE IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO THAT OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOT LESS THAN 72 HOURS' NOTICE TO THE OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S OPERATIONS.
5. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF COMPONENTS AND SITE ELEMENTS TO BE SELECTIVELY DEMOLISHED.
6. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS OFF-SITE. DO NOT PERMIT DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. TRANSPORT DEMOLISHED MATERIALS OFF THE OWNER'S PROPERTY AND DISPOSE OF IN A SAFE AND LAWFUL MANNER.

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

GARDNER PLUS ARCHITECTS, PLLC
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PHONE: (856)429-4000
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SDVOSB CVE

Drawing Title: STRUCTURAL THIRD FLOOR - ENLARGED PARTIAL DEMOLITION AND FRAMING PLAN

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: ST | Drawn: DS

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

Drawing Number: S-103B

Dwg. 9 of 140

Office of Construction and Facilities Management

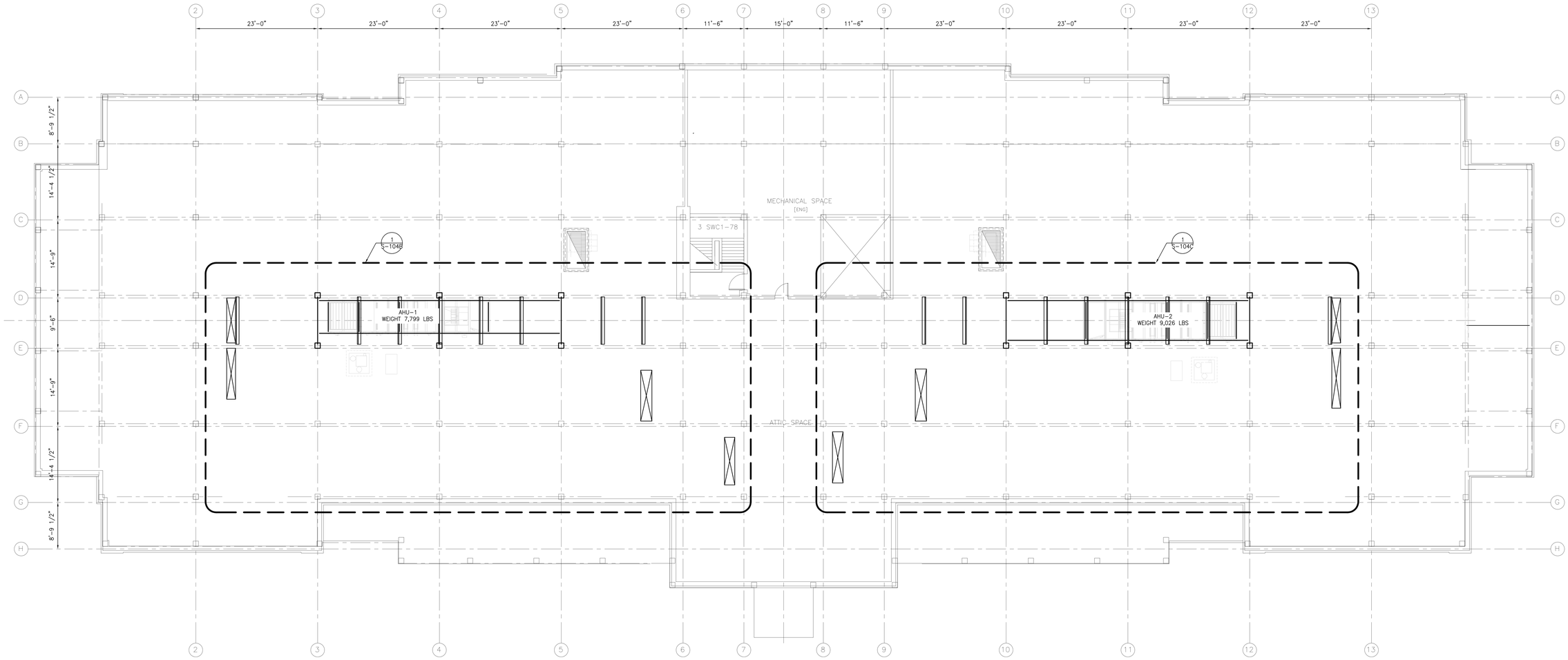
Department of Veterans Affairs

VA FORM 08-6231

PLAN NORTH
ACTUAL NORTH

GENERAL SHEET NOTE:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.



1 STRUCTURAL – ATTIC PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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FAX: (856)429-5002

SDVOSB CVE

Drawing Title: STRUCTURAL ATTIC PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: ST | Drawn: DS

Project Number: 528-A6-13-602

Building Number: BLDG. #78

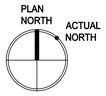
Drawing Number: S-104

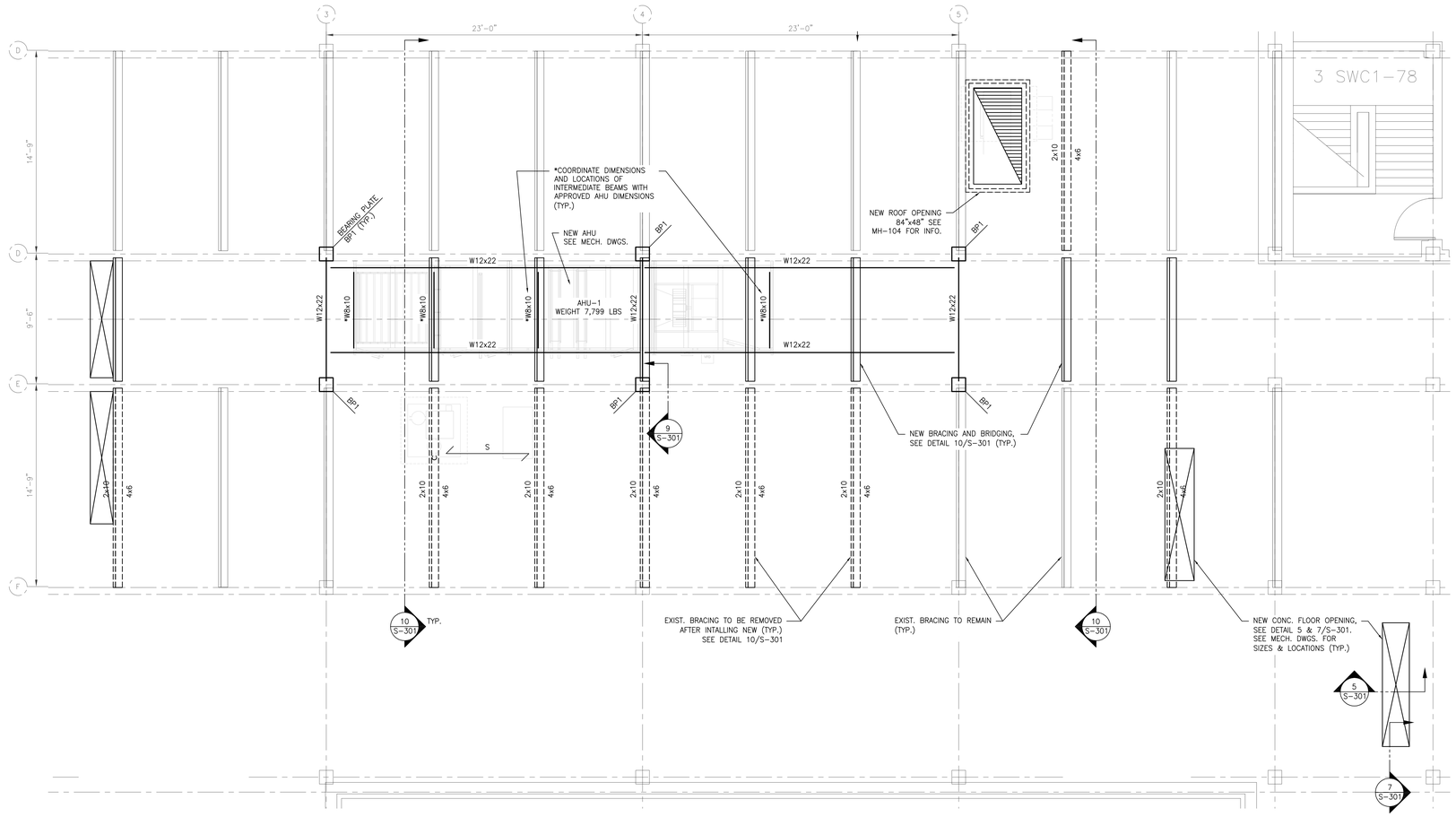
Dwg. 10 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231





1 ENLARGED PARTIAL DEMOLITION AND FRAMING PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.

SELECTIVE DEMOLITION NOTES:

1. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PERSONS AND DAMAGE TO ADJACENT STRUCTURES, FACILITIES AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PERSONS AROUND SELECTIVE DEMOLITION AREA. LOCATE AND RE-ROUTE ANY EXISTING UTILITY PRIOR TO STARTING THE WORK.
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NO.	DESCRIPTION	DATE

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KA PROJECT NUMBER: M223-03

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1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB CVE

Drawing Title: STRUCTURAL ATTIC - ENLARGED PARTIAL DEMOLITION AND FRAMING PLAN

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: ST | Drawn: DS

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

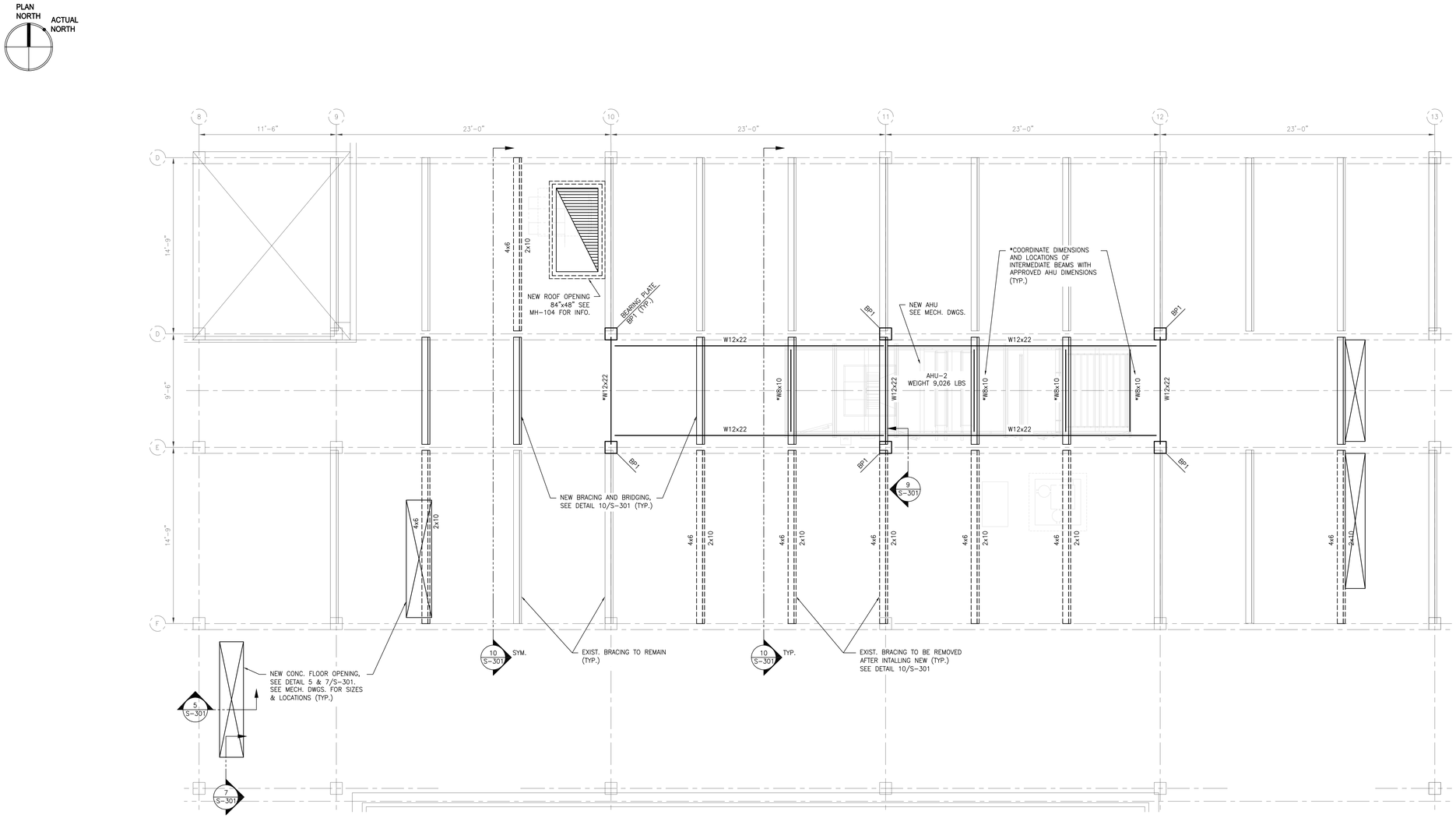
Drawing Number: S-104B

Dwg. 11 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 ENLARGED PARTIAL DEMOLITION AND FRAMING PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES:

FOR GENERAL STRUCTURAL NOTES SEE DRAWING S-001.

SELECTIVE DEMOLITION NOTES:

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NO.	DESCRIPTION	DATE

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KA PROJECT NUMBER: M023-03

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PHONE: (856)429-4000
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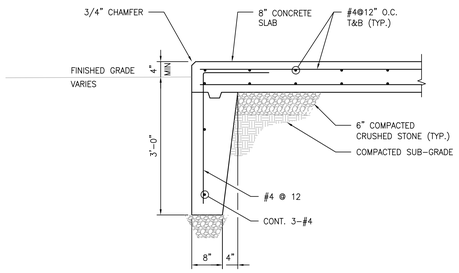
SDVOSB CVE

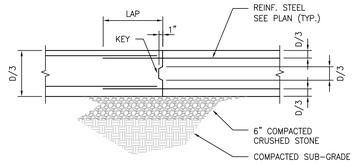
Drawing Title	STRUCTURAL ATTIC - ENLARGED PARTIAL DEMOLITION AND FRAMING PLAN
Approved: Project Director	
Project Title	RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER
Location	VAMC, BATH, NEW YORK
Date	08-06-2015
Checked	ST
Drawn	DS
Project Number	528-A6-13-602
Building Number	BLDG. #78
Drawing Number	S-104C
	Dwg. 12 of 140

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

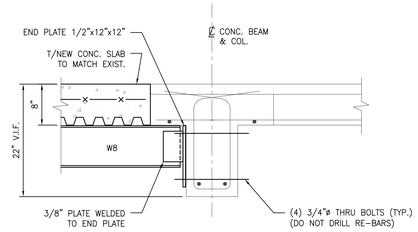


1 SECTION – TYPICAL EQUIPMENT PAD
SCALE: 3/4" = 1'-0"

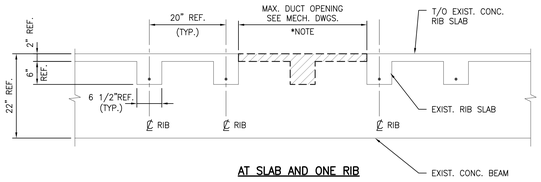


2 DETAIL – TYPICAL CONSTRUCTION JOINT (C.J.)
SCALE: 3/4" = 1'-0"

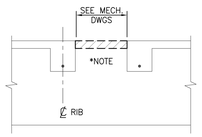
3 NOT USED
SCALE: NONE



4 SECTION
SCALE: 1" = 1'-0"



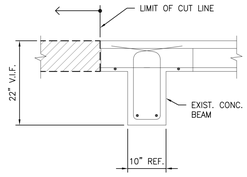
AT SLAB AND ONE RIB



AT SLAB ONLY

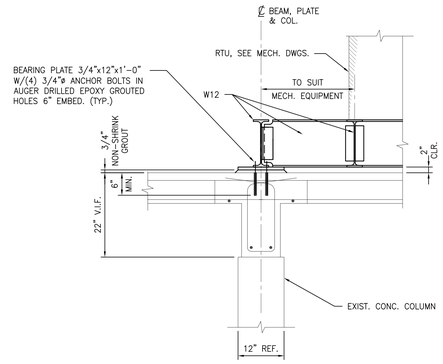
*NOTE: SAW CUT AND SELECTIVELY REMOVE EXISTING CONCRETE AS SHOWN. MAXIMUM OF ONE (1) RIB ONLY.

5 SECTION – TYPICAL FLOOR OPENING AT DUCT LOCATIONS
SCALE: 3/4" = 1'-0"

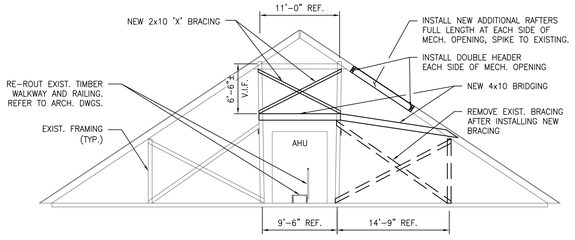


7 SECTION
SCALE: 3/4" = 1'-0"

8 NOT USED
SCALE: NONE



9 SECTION
SCALE: 3/4" = 1'-0"



NOTE: INSTALL NEW BRACING MEMBERS BEFORE REMOVING ANY EXISTING BRACING. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS. SEE GENERAL NOTES S-001 FOR INFORMATION.

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NO.	DESCRIPTION	DATE

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SDVOSB cVe

Drawing Title: STRUCTURAL SECTIONS AND DETAILS

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: ST | Drawn: DS

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

Drawing Number: S-301

Dwg. 13 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231