

NON-COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 5000 PSI				
BAR SIZE	Ld	Ldt	Lt	Lt
#3	13	17	17	22
#4	17	23	23	29
#5	22	29	29	38
#6	26	34	34	44
#7	38	50	50	65
#8	43	56	56	73
#9	48	63	63	82
#10	54	71	71	92
#11	59	77	77	100

ALL CONCRETE STRENGTHS			
BAR SIZE	Lb	Lc	Lcs
#3	9	12	12
#4	11	13	12
#5	14	16	15
#6	17	19	17
#7	20	22	20
#8	22	25	23
#9	25	29	26
#10	28	32	29
#11	31	35	31

EPOXY COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 5000 PSI				
BAR SIZE	Ld	Ldt	Lt	Lt
#3	20	26	26	34
#4	26	34	34	44
#5	32	42	42	55
#6	39	51	51	66
#7	56	73	73	95
#8	64	84	84	109
#9	72	94	94	122
#10	80	104	104	136
#11	88	115	115	149

ALL CONCRETE STRENGTHS			
BAR SIZE	Lb	Lc	Lcs
#3	9	12	12
#4	11	13	12
#5	14	16	15
#6	17	19	17
#7	20	22	20
#8	22	25	23
#9	25	29	26
#10	28	32	29
#11	31	35	31

NOTES:

1. db = NOMINAL BAR DIAMETER  
Ld = TENSION DEVELOPMENT LENGTH  
Ldt = DEVELOPMENT LENGTH OF TOP BARS IN TENSION  
Lt = TENSION LAP SPLICE LENGTH  
Lt = TENSION LAP SPLICE LENGTH OF TOP BARS  
Lb = COMPRESSION DEVELOPMENT LENGTH  
Lc = TIED COLUMN LAP SPLICE IN COMPRESSION  
Lcs = SPIRAL COLUMN LAP SPLICE IN COMPRESSION

2. REBAR DEVELOPMENT/SPLICE LENGTHS ARE BASED ON ACI 318. REINFORCEMENT YIELD STRENGTH, Fy = 60 KSI.  
TOP BARS\* = HORIZONTAL BEAM REINFORCING WITH MORE THAN 12" CAST BELOW

3. ALL SPLICES SHALL BE TENSION SPLICES, UNO.

TABLE VALUES SHALL BE MULTIPLIED BY 1.5 IF THE FOLLOWING CRITERIA ARE NOT MET:

3db  
MIN

db CLR, MIN

3db  
MIN

db CLR, MIN

SLAB / WALL

COLUMN / BEAM

MECHANICAL COUPLER

STAGGER > S

LAP PER (Lt, Lt, Lt, Lcs)

DEVELOPMENT LENGTH

TYPICAL REINFORCING BAR DEVELOPMENT / SPLICE DETAILS

MISCELLANEOUS SYMBOLS

N

NORTH ARROW

1

SECTION NUMBER

1

CALLOUT NUMBER

1

SHEET NUMBER

EARTH

GRAVEL

LIMIT OF EXTENT

CONTINUOUS EXTENT

Name

Elevation

A

GRIDLINES

C#

COLUMN NOTATION

Z#

PRECAST BRICK SUPPORT

L#

LINTEL NOTATION

F ##

COLUMN FOOTING NOTATION

WF ##

WALL FOOTING NOTATION

GB ##

GRADE BEAM NOTATION

P ##

PIER NOTATION

B ##

CONCRETE BEAM NOTATION

PB ##

POST-TENSIONED CONCRETE BEAM NOTATION

PC ##

PILE CAP NOTATION

BW ##

BEARING WALL NOTATION

SW ##

SHEAR WALL NOTATION

W ##

WALL NOTATION

WP ##

WALL PIER NOTATION

CONCRETE SYMBOLS

CHANGE OF SLAB ELEVATION

SLOPING SLAB

CHANGE OF SLAB THICKNESS

LIMIT OF MEMBER OR SPAN MARK

DIRECTION OF SPAN

OPENING

CONTROL JOINT LOCATION IN CONCRETE WALLS

INTENTIONALLY ROUGHENED CONSTRUCTION JOINT TO 1/4" AMPLITUDE

FORM-SAVER

SLAB ON GRADE MARK

POST-TENSION TENDON ANCHOR DEAD END LOCATION

POST-TENSION TENDON ANCHOR JACKING LOCATION

REBAR

MECHANICAL COUPLER REBAR SPLICE

REBAR TERMINATOR

SELF-EXPANDING WATERSTOP

PVC WATERSTOP

WELDED WIRE FABRIC

COLUMN CONTIGUES

COLUMN TERMINATED

EXISTING DEPRESSION

CONNECTORS		
CONNECTOR	SECTION	END/ALT VIEW
CAST-IN ANCHOR ROD		
POST-INSTALLED MECHANICAL ANCHOR		
POST INSTALLED ADHESIVE ANCHOR		
HEADED STUD		
BOLT		

STRUCTURAL DRAWINGS ABBREVIATIONS			
&	AND	JST	JOIST
AE	ARCHITECT/ENGINEER	JT	JOINT
ACI	AMERICAN CONCRETE INSTITUTE	KB	KNEE BRACE
ADDL	ADDITIONAL	KIP, K	1,000 POUNDS
ADJ	ADJACENT	KO	KNOCK-OUT
AGGR	AGGREGATE	KSI	KIPS PER SQUARE INCH
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L	ANGLE OR LENGTH
ALT	ALTERNATE	LAB	LABORATORY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LB	POUND
APA	AMERICAN PLYWOOD ASSOCIATION	LF	LINEAL FOOT
APPROX	APPROXIMATE	LINE	LINEAL, LINEAR
AR	ANCHOR ROD	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECTURAL	LLV	LONG LEG VERTICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LONGIT	LONGITUDINAL
AWS	AMERICAN WELDING SOCIETY	LP	LOW POINT
BA	BOTTOM OF	LSL	LAMINATED STRAND LUMBER
BAL	BALANCE	LSLT	LONG SLOTTED HOLE
BD	BOARD	LTWT	LIGHT WEIGHT
BLDG	BUILDING	LVL	LAMINATED VENEER LUMBER
BLK	BLOCK	MAS	MASONRY
BLKG	BLOCKING	MATL	MATERIAL
BM	BEAM	MAX	MAXIMUM
BOT	BOTTOM	MB	MACHINE BOLT
BRG	BEARING	MC	MISCELLANEOUS CHANNEL
BRKT	BRACKET	MECH	MECHANICAL
BTWN	BETWEEN	MEMB	MEMBRANE
BU	BUILT UP	MEP	MECHANICAL/ELECTRICAL/PLUMBING
C	STANDARD CHANNEL	MFR	MANUFACTURER
CANT	CANTILEVER	MIN	MINIMUM
CC	CENTER TO CENTER	MISC	MISCELLANEOUS
CF	COLD FORMED	MO	MASONRY OPENING
CG	CENTER OF GRAVITY	MULT	MULTIPLE
CIP	CAST-IN-PLACE	N/A	NOT APPLICABLE
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	NO	NUMBER
CJP	COMPLETE JOINT PENETRATION	NOM	NOMINAL
CL	CENTERLINE	NS	NEAR SIDE
CLR	CLEARANCE, CLEAR	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OF	OUTSIDE FACE
CONN	CONNECTION	OFD	OVERFLOW DRAIN
CONST	CONSTRUCTION	OH	OVERHEAD
CONT	CONTINUOUS	OPNG	OPENING
CONTR	CONTRACTOR	OPP	OPPOSITE
CTR	CENTER	OPPHD	OPPOSITE HAND
CTRD	CENTERED	ORIG	ORIGINAL
CU FT	CUBIC FEET	OVS	OVERSIZED HOLE
CU IN	CUBIC INCH	OWJ	PRE-MANUFACTURED OPEN WEB JOIST
CYD	CUBIC YARD	PC	PRECAST CONCRETE
DBA	DEFORMED BAR ANCHOR	PERIM	PERIMETER
DBL	DOUBLE	PERM	PERMANENT
DEG	DEGREE	PERP	PERPENDICULAR
DEMO	DEMOLITION, DEMOLISH	PJP	PARTIAL JOINT PENETRATION
DEPT	DEPARTMENT	PL	PLATE
DET	DETAIL	PLF	POUNDS PER LINEAL FOOT
DIA	DIAMETER	PLYWD	PLYWOOD
DIAG	DIAGONAL	PREFAB	PREFABRICATED
DIAPHR	DIAPHRAGM	PRELIM	PRELIMINARY
DIM	DIMENSION	PREP	PREPARATION, PREPARE
DN	DOWN	PROJ	PROJECTION
DO	DITTO	PS	PRESTRESSED
DP	DEEP	PSF	POUNDS PER SQUARE FOOT
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
DWL	DOWELS	PSL	PARALLEL STRAND LUMBER
EA	EACH	PT	POST-TENSIONED
EF	EACH FACE	R	RADIUS
EJ	EXPANSION JOINT	RD	ROOF DRAIN
EL, ELEV	ELEVATION	REF	REFERENCE
ELEC	ELECTRICAL	REINF	REINFORCEMENT, REINFORCE
ENCL	ENCLOSURE	REQD	REQUIRED
ENGR	ENGINEER	RO	ROUGH OPENING
EOD	EDGE OF DECK	RTU	ROOFTOP MECHANICAL UNIT
EOJ	EDGE OF JOIST	S	SLOPE
EOS	EDGE OF SLAB	SCHED	SCHEDULE
EQ	EQUAL	SECT	SECTION
EQPT	EQUIPMENT	SF	SQUARE FEET
ES	EACH SIDE	SHT	SHEET
EW	EACH WAY	SIM	SIMILAR
EX	EXISTING	SOG	SLAB-ON-GRADE
EXP	EXPANSION	SPA	SPACES, SPACE
EXT	EXTERIOR	SPECS	SPECIFICATIONS
FD	FLOOR DRAIN	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL
FIN	FINISH	SSLT	SHORT SLOTTED HOLE
FLG	FLANGE	STD	STANDARD
FLR	FLOOR	STIFF	STIFFENER
FS	FAR SIDE	STL	STEEL
FT	FOOTING	STRUC	STRUCTURAL
FTGD	FOOTING DRAIN	SYM	SYMMETRICAL
FV	FIELD VERIFY	T & B	TOP AND BOTTOM
GA	GAUGE	T	TOP OF
GALV	GALVANIZED	TGB	TOP OF GRADE BEAM
GB	GRADE BEAM	TBS	MECHANICAL TENSION BUTT SPLICE
GL	GLUED LAMINATED TIMBER (GLULAM)	TEMP	TEMPERATURE
GRND	GROUND	THRU	THROUGH
GT	ORDER TRUSS	TJI	PREFABRICATED WOOD I-JOIST
HAS	HEADED ANCHOR STUD	TRANS	TRANSVERSE
HORIZ	HORIZONTAL	TYP	TYPICAL
HP	HIGH POINT	UL	UNDERWRITERS' LABORATORY INC.
HSS	HOLLOW STRUCTURAL SECTION	UNO	UNLESS NOTED OTHERWISE
HT	HIP TRUSS	UT	ULTRA-SONIC TEST
HVAC	HEATING, VENTILATION, AIR CONDITIONING	VERT	VERTICAL
ID	INSIDE DIAMETER	W	WIDE FLANGE
IF	INSIDE FACE	W/	WITH
IN	INCH	W/O	WITHOUT
INCL	INCLUDE	WD	WOOD
INFO	INFORMATION	WH	WEEP HOLE
INSUL	INSULATION	WP	WORK POINT
INT	INTERIOR	WT	WEIGHT, STRUCTURAL T
JBRG	JOIST BEARING	WWF	WELDED WIRE FABRIC
		XS	EXTRA STRONG (PIPE)
		XXS	DOUBLE EXTRA STRONG (PIPE)

STRUCTURAL INDEX	
SHEET #	SHEET NAME
SI001	ABBREVIATIONS AND SYMBOLS
SI002	GENERAL NOTES
SF100A-N	STRUCTURAL REPAIR PLAN LEVEL "A" NORTH
SF100A-M	STRUCTURAL REPAIR PLAN LEVEL "A" MIDDLE
SF100A-S	STRUCTURAL REPAIR PLAN LEVEL "A" SOUTH
SF100B-N	STRUCTURAL REPAIR PLAN LEVEL "B" NORTH
SF100B-M	STRUCTURAL REPAIR PLAN LEVEL "B" MIDDLE
SF100B-S	STRUCTURAL REPAIR PLAN LEVEL "B" SOUTH
SF100C-N	STRUCTURAL REPAIR PLAN LEVEL "C" NORTH
SF100C-M	STRUCTURAL REPAIR PLAN LEVEL "C" MIDDLE
SF100C-S	STRUCTURAL REPAIR PLAN LEVEL "C" SOUTH
SF200B-N	STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "B" NORTH
SF200B-M	STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "B" MIDDLE
SF200B-S	STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "B" SOUTH
SF200C-N	STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "C" NORTH
SF200C-M	STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "C" MIDDLE
SF200C-S	STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "C" SOUTH
SF501	TYPICAL DETAILS AND SECTIONS
SF502	TYPICAL DETAILS AND SECTIONS

LIST OF ALTERNATES - DEDUCTS	
A-1	BID ITEM I. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPERVISION, AND ALL OTHER NECESSARY RESOURCES TO REPAIR STRUCTURAL DEFICIENCIES, EXISTING GARAGE. WORK INCLUDES GENERAL CONSTRUCTION, ALTERATIONS, DRAINAGE, MECHANICAL AND ELECTRICAL WORK, NECESSARY REMOVAL OF EXISTING STRUCTURES AND CONSTRUCTION AND CERTAIN OTHER ITEMS.
A-2	BID ITEM II. ALTERNATE NO. A-1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SUPERVISION TO PERFORM ALL WORK IN BID ITEM I EXCEPT DELETE ALL WORK ASSOCIATED WITH THE TRAFFIC BEARING MEMBRANE AND PARKING STALL STRIPING ON LEVEL "C" IN ITS ENTIRETY AND REPLACE WITH SILANE SEALER. (SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.)
A-3	BID ITEM III. ALTERNATE NO. A-2. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SUPERVISION TO PERFORM ALL WORK IN BID ITEMS I, II, AND III EXCEPT DELETE ALL WORK ASSOCIATED WITH THE TRAFFIC BEARING MEMBRANE AND PARKING STALL STRIPING ON THE WEST SIDE OF LEVEL "B" IN ITS ENTIRETY AND REPLACE WITH SILANE SEALER. (SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.)
	BID ITEM IV. ALTERNATE NO. A-3. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SUPERVISION TO PERFORM ALL WORK IN BID ITEMS I, II, AND III EXCEPT DELETE ALL WORK ASSOCIATED WITH THE TRAFFIC BEARING MEMBRANE AND PARKING STALL STRIPING ON LEVEL "A" AND THE EAST SIDE OF LEVEL "B" IN THEIR ENTIRETY AND REPLACE WITH SILANE SEALER. (SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.)

Revision Schedule

Comments	Date

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No.  
900414  
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PROFESSIONAL ENGINEER  
INDIANA

11/08/2014

*Donald L. Gosan*

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Office of  
Construction  
and Facilities  
Management

Drawing Title

ABBREVIATIONS AND SYMBOLS

Approved: Project Director

Project Title

REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE

Location

INDIANAPOLIS, IN

Date

11/08/2014

Checked

JAP

Drawn

BGC

Project Number

9FY14  
583-13-220

Building Number

BUILDING #9

Drawing Number

SI001

Dwg.04 of 37

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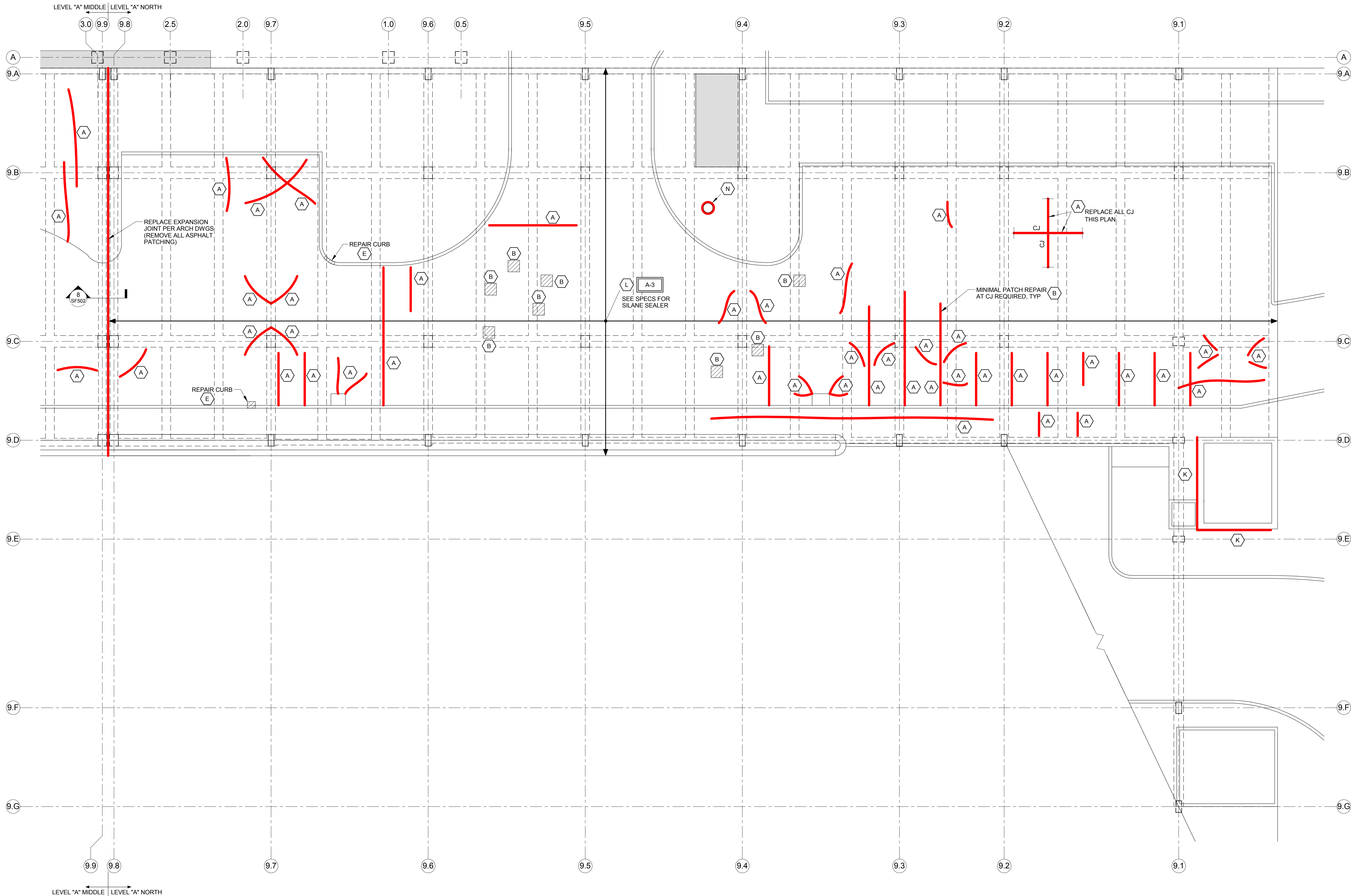


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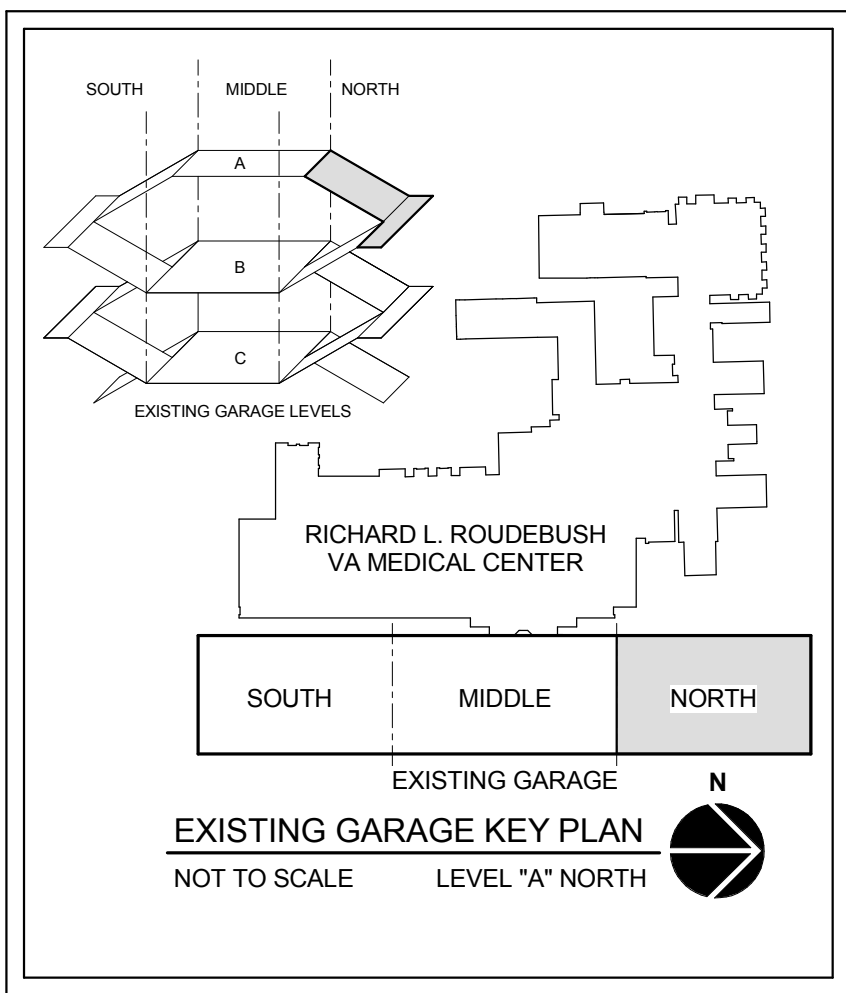


REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
A	1/SF501	CRACK / CONTROL JOINT REPAIR	1940 LF
B	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	144 SF
C	3/SF501	STAIR TREADS REPAIR	-
D	4/SF501	TOPPING SLAB	-
E	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	4 SF
F	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	-
G	7/SF501	COLUMN REPAIR	-

REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
H	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	-
J	9/SF501	LEVELING COMPOUND	-
K	10/SF501	INSTALL / REPAIR COVE SEALANT	30 LF
L	11/SF501	TRAFFIC BEARING MEMBRANE	13390 SF
M	12/SF501	RAMP BEAM REPLACEMENT	-
N	13/SF501	BOLLARD REPAIR	1 LOC
O	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

- STRUCTURAL REPAIR PLAN LEVEL "A" NORTH - TOPSIDE**
- NOTES:
- INDICATED SCOPE OF WORK ON CONSTRUCTION DOCUMENTS IS NOT MEANT TO BE ALL INCLUSIVE. CONTRACTOR TO FIELD VERIFY / INSPECT / EVALUATE THE ENTIRE SITE FOR SIMILAR INSTANCES OF STRUCTURAL DEFICIENCIES, CORROSION, RUST, DETERIORATION, ELECTRICAL DEFICIENCIES, AND OTHER FAILURES WITHIN THE EXISTING PARKING GARAGE CONSTRUCTION LIMIT LINE. ANY ADDITIONAL ITEMS THAT ARE FOUND SHOULD BE BROUGHT TO THE ATTENTION OF THE CO/OCR AS SOON AS POSSIBLE.
  - INSTALL SHORING / PROTECTION BY CONTRACTOR.
  - PRESSURE WASH / CLEAN ENTIRE SURFACE OF SLABS PRIOR TO INSTALLATION OF CONCRETE, SEALER, AND / OR TRAFFIC BEARING MEMBRANE.
  - CAULK AROUND ALL BOLLARDS PER 13/SF501, TYP (24 LF ASSUMED THIS SHEET).
  - PROTECT DRAINS / INLETS THROUGHOUT CONSTRUCTION FROM CONSTRUCTION DEBRIS.

NOTE:  
SEE SPECIFICATION AND SHEETS G1001 / S1001 FOR LIST OF ALTERNATES AND ADDITIONAL INFORMATION.



Revision Schedule	
Comments	Date

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State of Indiana  
11/08/2014

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PH: 260.424.4830  
www.viridian-design.net**

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**Drawing Title**  
**STRUCTURAL REPAIR PLAN LEVEL "A" NORTH**

Approved: Project Director

**Project Title**  
**REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE**

Location: INDIANAPOLIS, IN

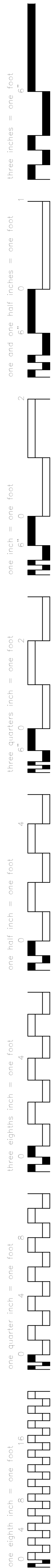
Date: 11/08/2014  
Checked: JAP  
Drawn: BGC








**9FY14**

Project Number: 583-13-220  
Building Number: BUILDING #9  
Drawing Number: SF100A-N  
Dwg. 06 of 37

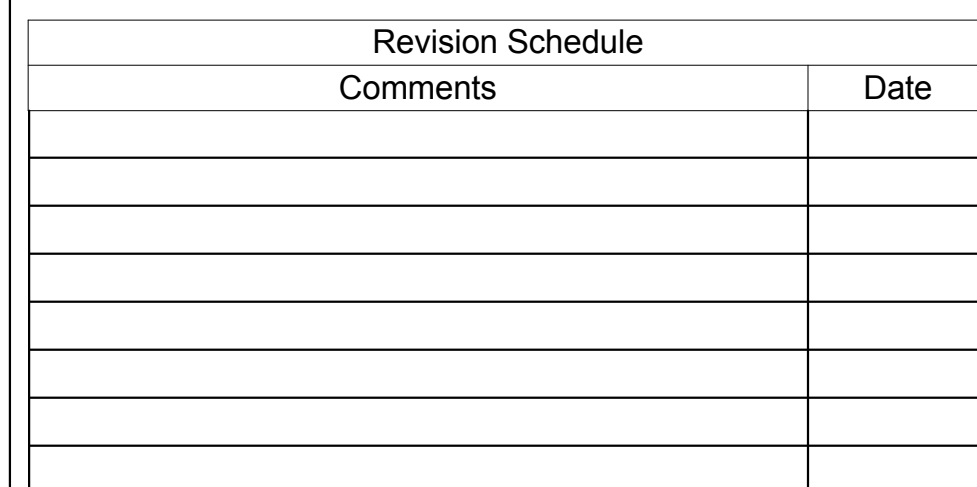
**Office of Construction and Facilities Management**

Department of Veterans Affairs



REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	-
	9/SF501	LEVELING COMPOUND	45 SF
	10/SF501	INSTALL / REPAIR COVE SEALANT	150 LF
	11/SF501	TRAFFIC BEARING MEMBRANE	13300 SF
	12/SF501	RAMP BEAM REPLACEMENT	-
	13/SF501	BOLLARD REPAIR	1 LOC
	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

**NOTE:**  
SEE SPECIFICATION AND SHEETS G1001 / S1001 FOR LIST OF ALTERNATES AND  
ADDITIONAL INFORMATION.

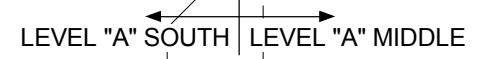


7260 SHADELAND STATION  
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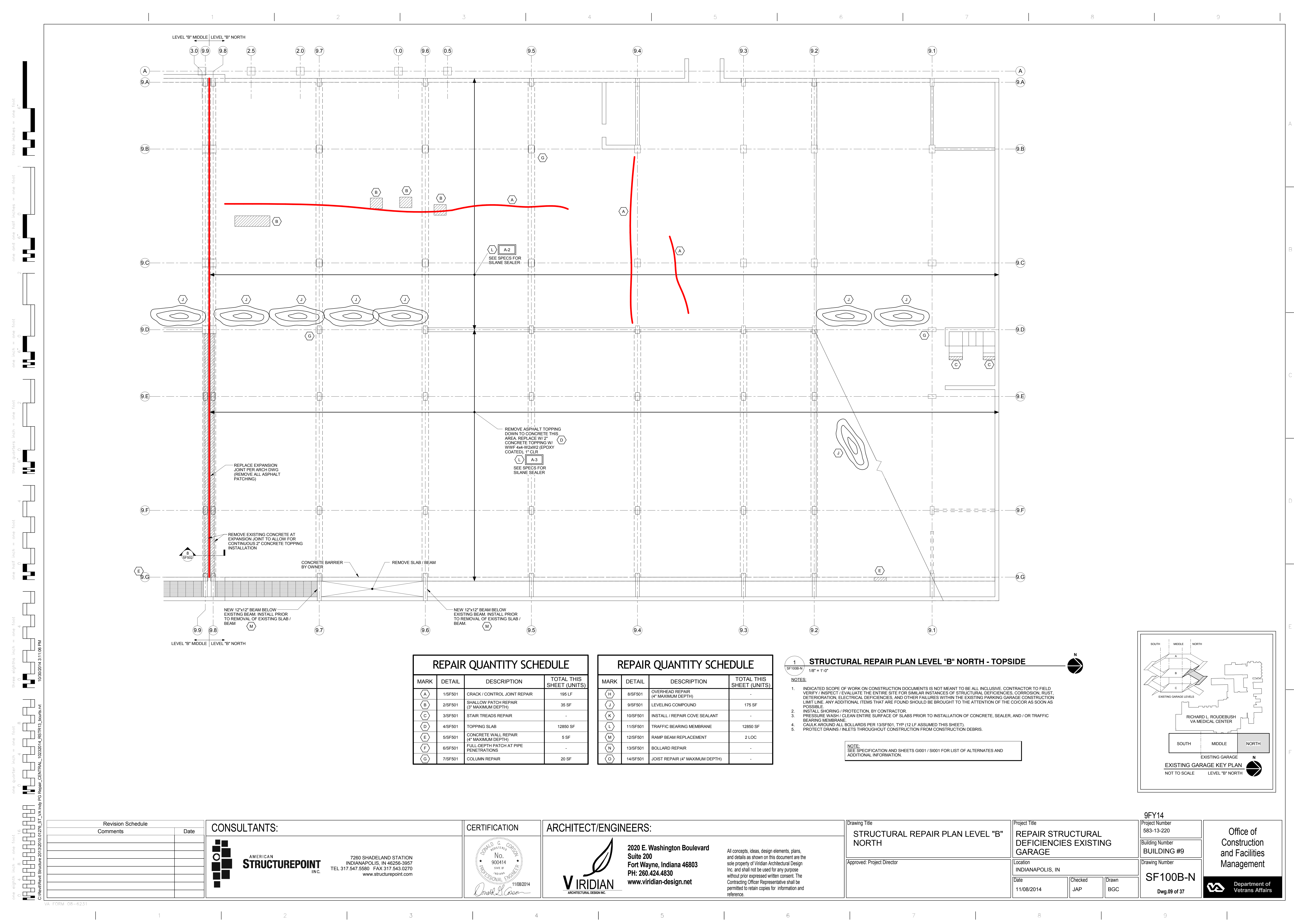
 Department of  
Veterans Affairs





Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs



REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
A	1/SF501	CRACK / CONTROL JOINT REPAIR	195 LF
B	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	35 SF
C	3/SF501	STAIR TREADS REPAIR	-
D	4/SF501	TOPPING SLAB	12850 SF
E	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	5 SF
F	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	-
G	7/SF501	COLUMN REPAIR	20 SF

REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
H	8/SF501	OVERHEAD REPAIR (6" MAXIMUM DEPTH)	-
J	9/SF501	LEVELING COMPOUND	175 SF
K	10/SF501	INSTALL / REPAIR COVE SEALANT	-
L	11/SF501	TRAFFIC BEARING MEMBRANE	12850 SF
M	12/SF501	RAMP BEAM REPLACEMENT	2 LOC
N	13/SF501	BOLLARD REPAIR	-
O	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

1

SF100B-N

1/8" = 1'-0"

NOTES:

1.

INDICATED SCOPE OF WORK ON CONSTRUCTION DOCUMENTS IS NOT MEANT TO BE ALL INCLUSIVE. CONTRACTOR TO FIELD VERIFY / INSPECT / EVALUATE THE ENTIRE SITE FOR SIMILAR INSTANCES OF STRUCTURAL DEFICIENCIES, CORROSION, RUST, DETERIORATION, ELECTRICAL DEFICIENCIES, AND OTHER FAILURES WITHIN THE EXISTING PARKING GARAGE CONSTRUCTION LIMIT LINE. ANY ADDITIONAL ITEMS THAT ARE FOUND SHOULD BE BROUGHT TO THE ATTENTION OF THE COICOR AS SOON AS POSSIBLE.

2.

INSTALL SHORING / PROTECTION, BY CONTRACTOR.

3.

PRESSURE WASH / CLEAN ENTIRE SURFACE OF SLABS PRIOR TO INSTALLATION OF CONCRETE, SEALER, AND / OR TRAFFIC BEARING MEMBRANE.

4.

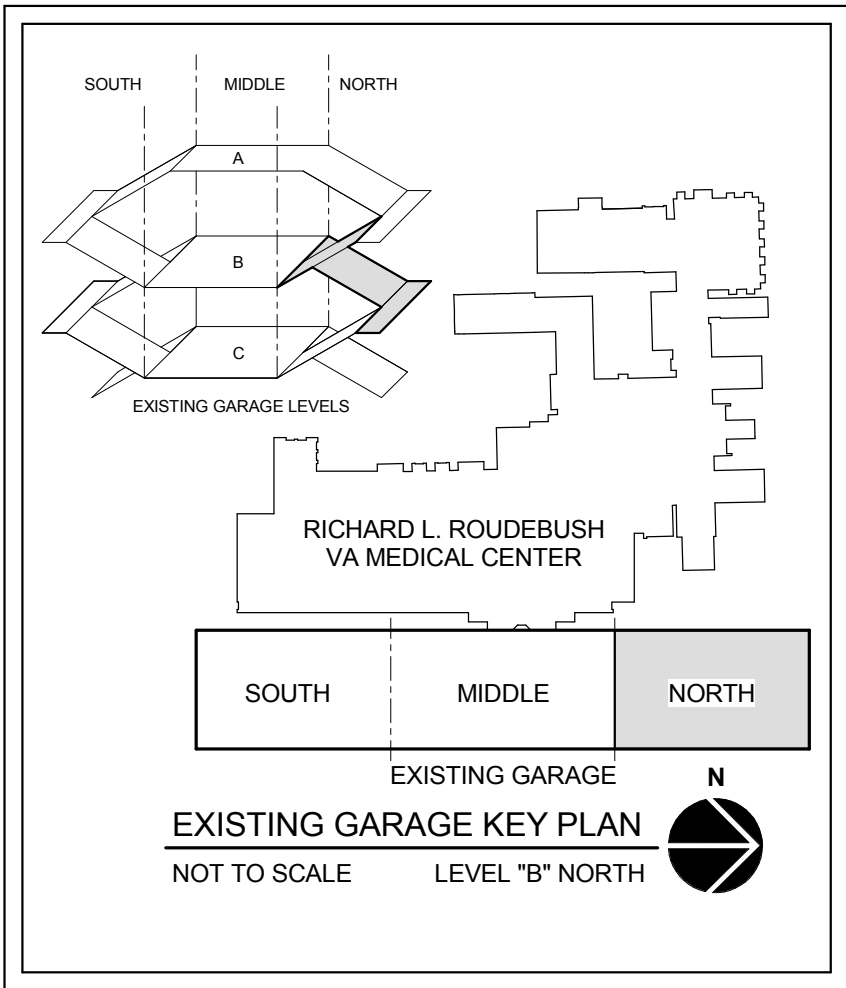
CAULK AROUND ALL BOLLARDS PER 13/SF501, TYP (12 LF ASSUMED THIS SHEET).

5.

PROTECT DRAINS / INLETS THROUGHOUT CONSTRUCTION FROM CONSTRUCTION DEBRIS.

NOTE:

SEE SPECIFICATION AND SHEETS G1001 / S1001 FOR LIST OF ALTERNATES AND ADDITIONAL INFORMATION.



Revision Schedule	
Comments	Date

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Donald G. Condon

ARCHITECT/ENGINEERS:

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Drawing Title

STRUCTURAL REPAIR PLAN LEVEL "B" NORTH

Approved: Project Director

Project Title

REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE

Location  
INDIANAPOLIS, IN

Date  
11/08/2014

Checked  
JAP

Drawn  
BGC

9FY14

Project Number  
583-13-220

Building Number  
BUILDING #9

Drawing Number  
SF100B-N

Dwg.09 of 37

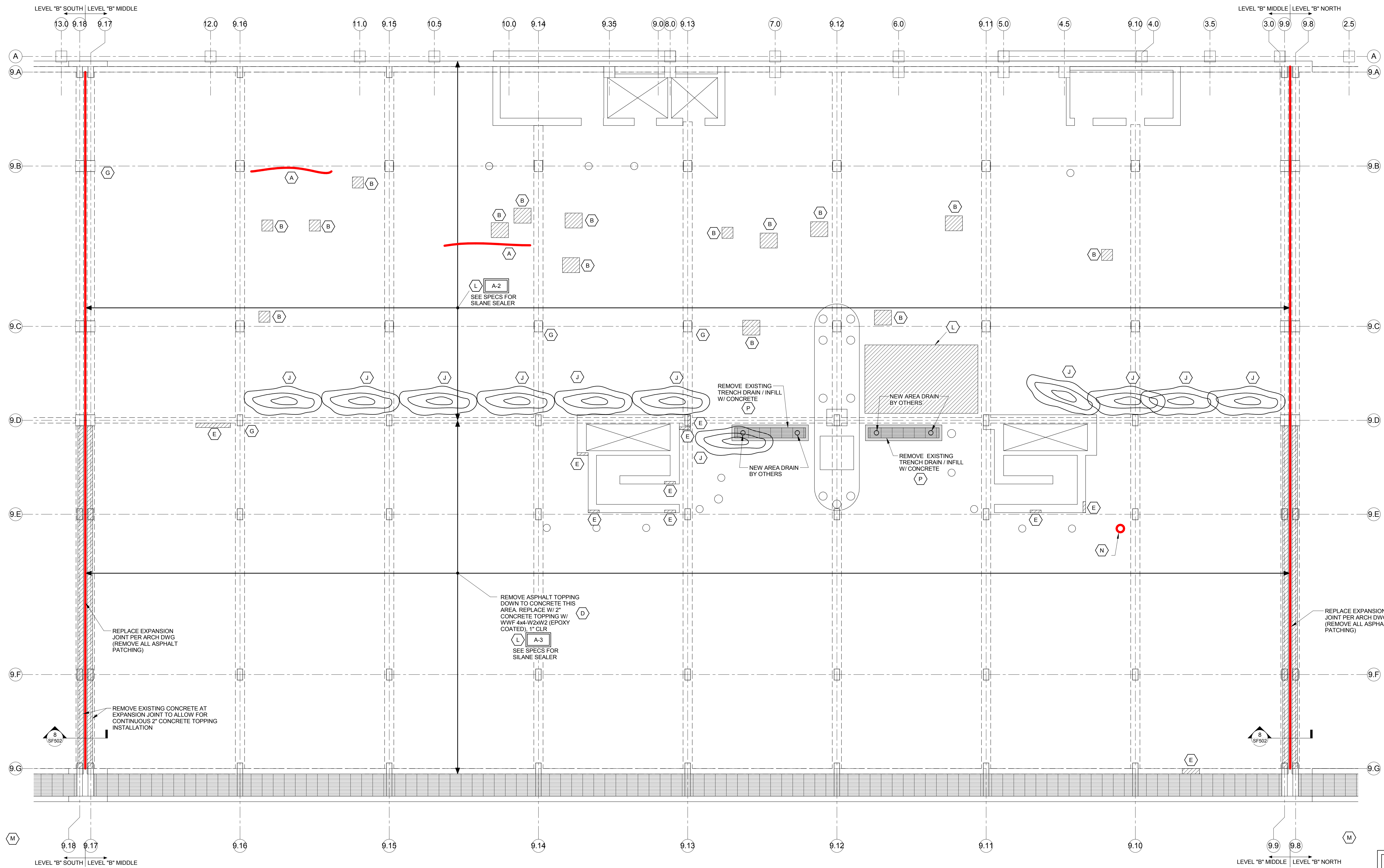
Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs



one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one half inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot

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REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
A	1/SF501	CRACK / CONTROL JOINT REPAIR	50 LF
B	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	60 SF
C	3/SF501	STAIR TREADS REPAIR	-
D	4/SF501	TOPPING SLAB	13500 SF
E	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	25 SF
F	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	-
G	7/SF501	COLUMN REPAIR	10 SF

REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
H	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	-
J	9/SF501	LEVELING COMPOUND	200 SF
K	10/SF501	INSTALL / REPAIR COVE SEALANT	-
L	11/SF501	TRAFFIC BEARING MEMBRANE	13500 SF
M	12/SF501	RAMP BEAM REPLACEMENT	-
N	13/SF501	BOLLARD REPAIR	1 LOC
O	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-
P	15/SF501	SLAB AND JOIST REPAIR (FULL DEPTH)	60 SF

1

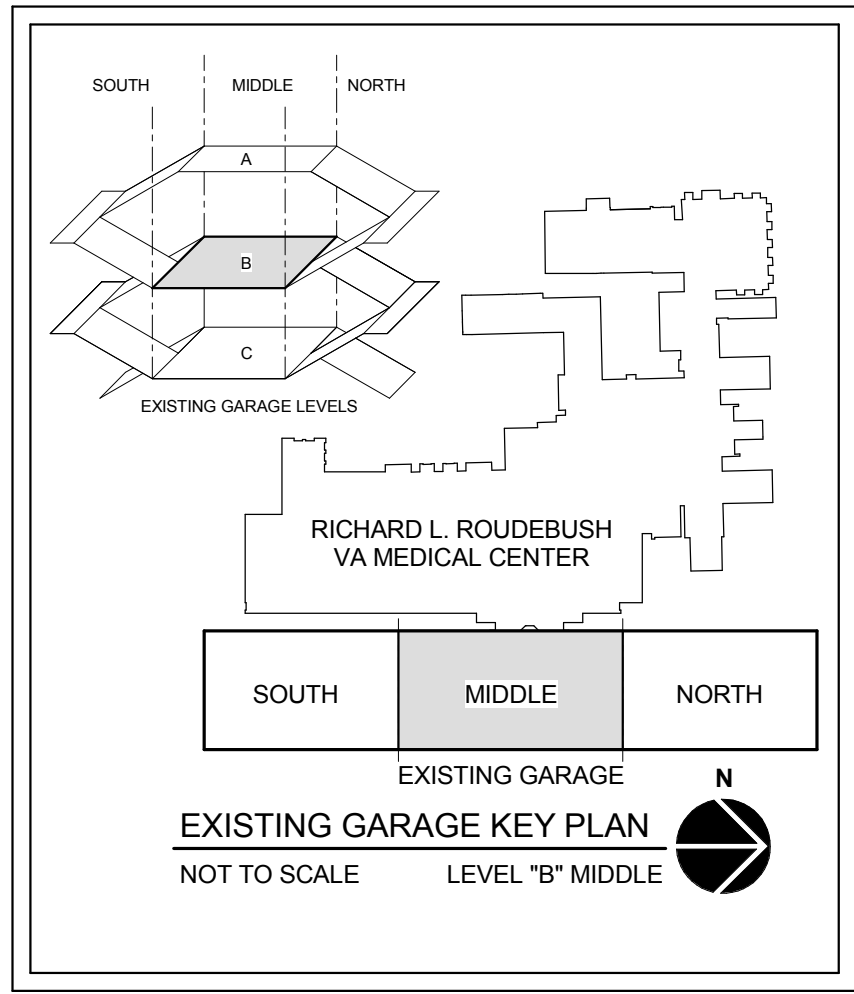
SF100B-M

1/8" = 1'-0"

STRUCTURAL REPAIR PLAN LEVEL "B" MIDDLE - TOPSIDE

NOTES:  
1. INDICATED SCOPE OF WORK ON CONSTRUCTION DOCUMENTS IS NOT MEANT TO BE ALL INCLUSIVE. CONTRACTOR TO FIELD VERIFY / INSPECT / EVALUATE THE ENTIRE SITE FOR SIMILAR INSTANCES OF STRUCTURAL DEFICIENCIES, CORROSION, RUST, DETERIORATION, ELECTRICAL DEFICIENCIES, AND OTHER FAILURES WITHIN THE EXISTING PARKING GARAGE CONSTRUCTION LIMIT LINE. ANY ADDITIONAL ITEMS THAT ARE FOUND SHOULD BE BROUGHT TO THE ATTENTION OF THE COICOR AS SOON AS POSSIBLE.  
2. INSTALL SHORING / PROTECTION, BY CONTRACTOR, PRESSURE WASH / CLEAN ENTIRE SURFACE OF SLABS PRIOR TO INSTALLATION OF CONCRETE, SEALER, AND / OR TRAFFIC BEARING MEMBRANE.  
3. CAULK AROUND ALL BOLLARDS PER 13/SF501, TYP (162 LF ASSUMED THIS SHEET).  
4. PROTECT DRAINS / INLETS THROUGHOUT CONSTRUCTION FROM CONSTRUCTION DEBRIS.

NOTE:  
SEE SPECIFICATION AND SHEETS G1001 / S1001 FOR LIST OF ALTERNATES AND ADDITIONAL INFORMATION.



Revision Schedule	
Comments	Date

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Drawing Title

STRUCTURAL REPAIR PLAN LEVEL "B" MIDDLE

Approved: Project Director

Project Title

REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE

Location  
INDIANAPOLIS, IN

Date  
11/08/2014

Checked  
JAP

Drawn  
BGC

9FY14

Project Number  
583-13-220

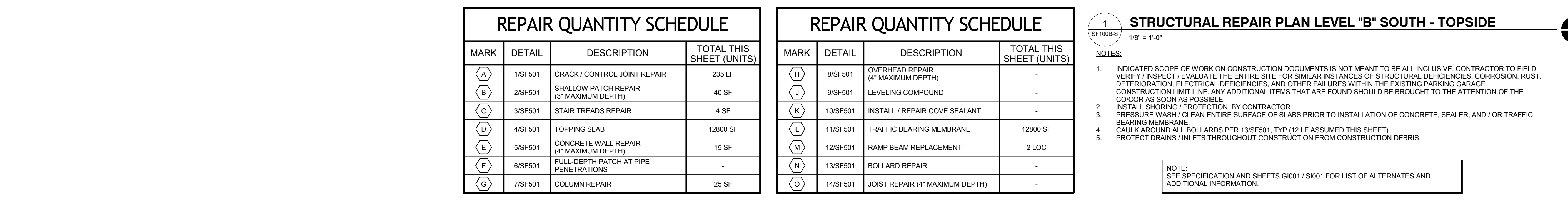
Building Number  
BUILDING #9

Drawing Number  
SF100B-M

Dwg. 10 of 37

Office of  
Construction  
and Facilities  
Management

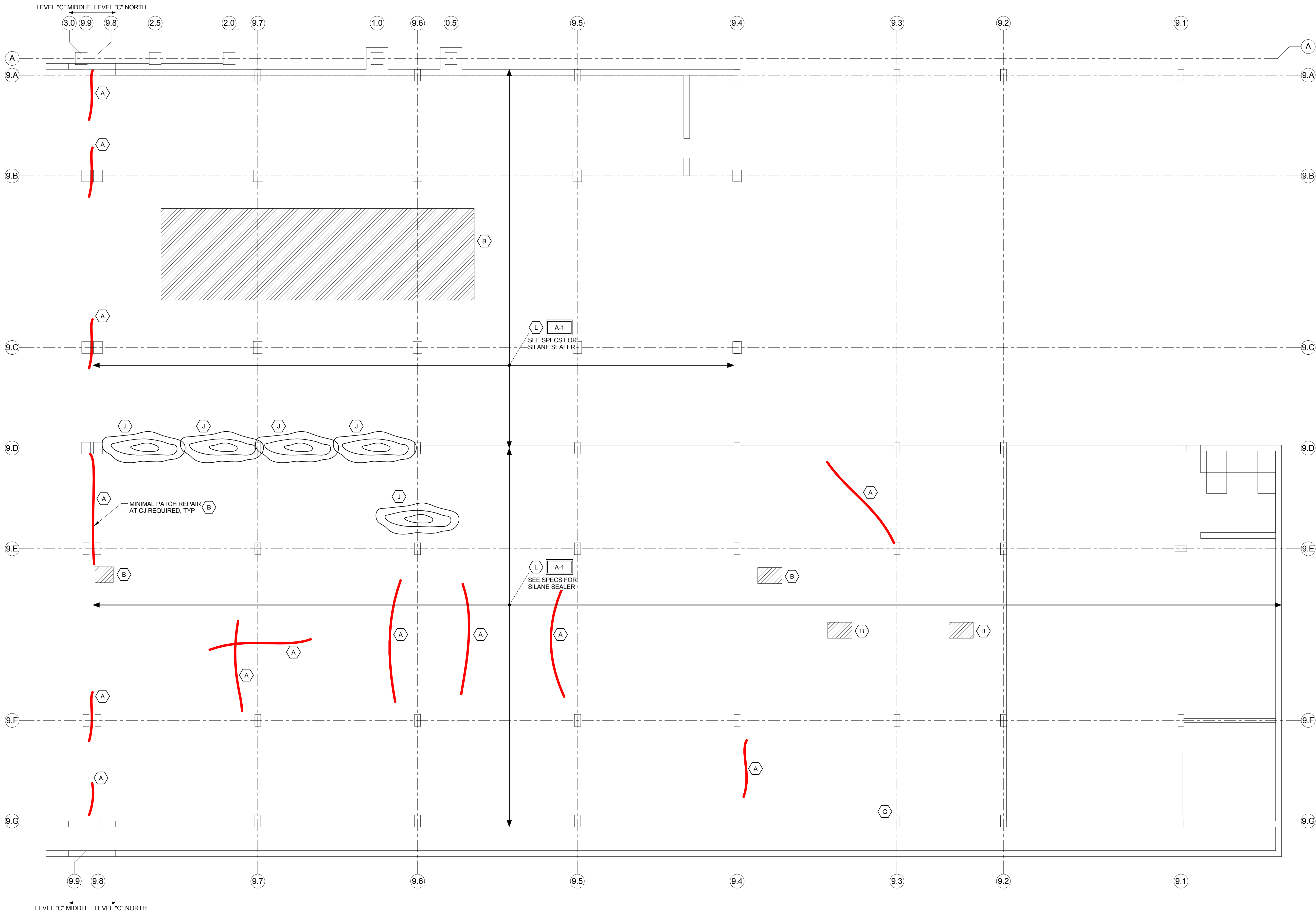
Department of  
Veterans Affairs



REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
(H)	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	-
(J)	9/SF501	LEVELING COMPOUND	-
(K)	10/SF501	INSTALL / REPAIR COVE SEALANT	-
(L)	11/SF501	TRAFFIC BEARING MEMBRANE	12800 SF
(M)	12/SF501	RAMP BEAM REPLACEMENT	2 LOC
(N)	13/SF501	BOLLARD REPAIR	-
(O)	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

The diagram is a site plan of the Richard L. Roudebush VA Medical Center. It features a large, irregular building footprint on the right. To its left, a series of three rectangular areas are labeled 'EXISTING GARAGE LEVELS' and are divided into 'SOUTH', 'MIDDLE', and 'NORTH' sections. A fourth rectangular area, labeled 'LEVEL "B" SOUTH', is shown below the existing garages, also divided into 'SOUTH', 'MIDDLE', and 'NORTH' sections. A north arrow is located in the bottom right corner. The text 'RICHARD L. ROUDEBUSH VA MEDICAL CENTER' is centered above the garage levels.





REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
A	1/SF501	CRACK / CONTROL JOINT REPAIR	160 LF
B	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	820 SF
C	3/SF501	STAIR TREADS REPAIR	-
D	4/SF501	TOPPING SLAB	-
E	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	-
F	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	-
G	7/SF501	COLUMN REPAIR	5 SF

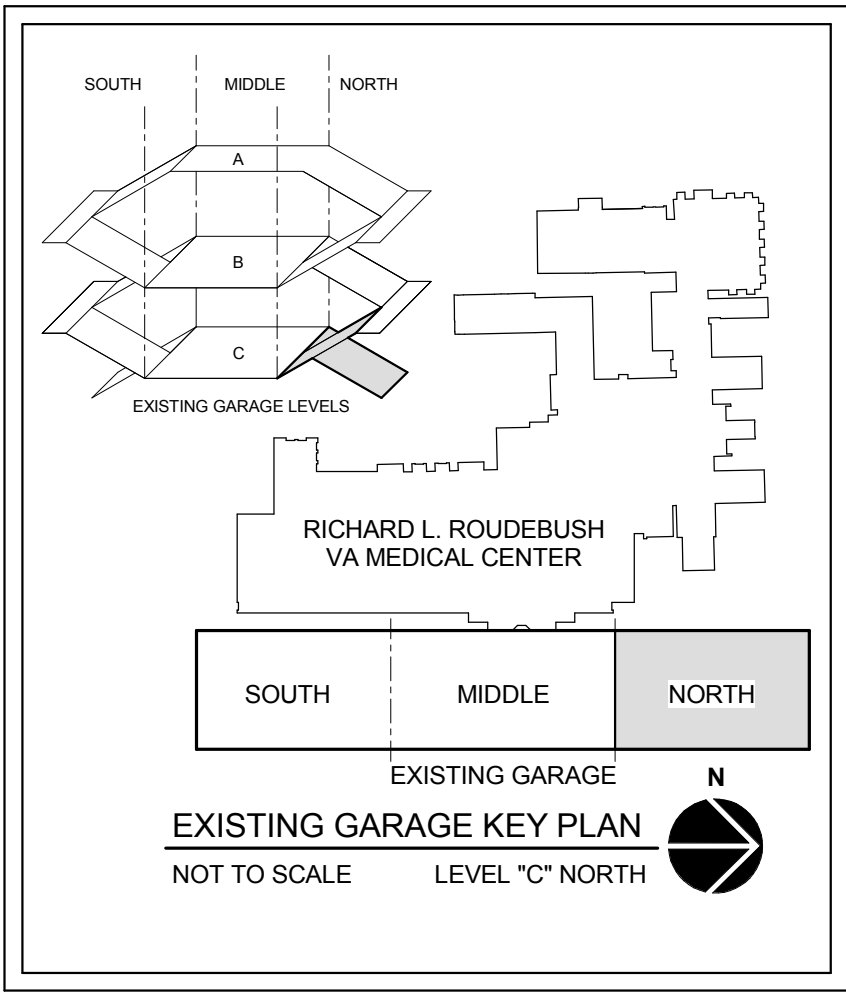
REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
H	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	-
J	9/SF501	LEVELING COMPOUND	670 SF
K	10/SF501	INSTALL / REPAIR COVE SEALANT	-
L	11/SF501	TRAFFIC BEARING MEMBRANE	18980 SF
M	12/SF501	RAMP BEAM REPLACEMENT	-
N	13/SF501	BOLLARD REPAIR	-
O	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

**1** **STRUCTURAL REPAIR PLAN LEVEL "C" NORTH - TOPSIDE**  
1/8" = 1'-0"

**NOTES:**

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- INSTALL SHORING / PROTECTION, BY CONTRACTOR.
- PRESSURE WASH / CLEAN ENTIRE SURFACE OF SLABS PRIOR TO INSTALLATION OF CONCRETE, SEALER, AND / OR TRAFFIC BEARING MEMBRANE.
- CAULK AROUND ALL BOLLARDS PER 13/SF501, TYP (12 LF ASSUMED THIS SHEET).
- PROTECT DRAINS / INLETS THROUGHOUT CONSTRUCTION FROM CONSTRUCTION DEBRIS.

**NOTE:**  
SEE SPECIFICATION AND SHEETS G1001 / S1001 FOR LIST OF ALTERNATES AND ADDITIONAL INFORMATION.



Revision Schedule	
Comments	Date

**CONSULTANTS:**

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900414  
NO. 900414  
DATE 11/08/2014  
PROFESSIONAL ENGINEER  
DONALD G. COOPER  
INDIANA

**ARCHITECT/ENGINEERS:**

**Viridian Architectural Design**

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**Drawing Title**  
**STRUCTURAL REPAIR PLAN LEVEL "C" NORTH**

**Approved:** Project Director

**Project Title**  
**REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE**

**Location**  
INDIANAPOLIS, IN

**Date**  
11/08/2014

**Checked**  
JAP

**Drawn**  
BGC

**9FY14**

**Project Number**  
583-13-220

**Building Number**  
BUILDING #9

**Drawing Number**  
**SF100C-N**

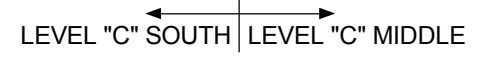
**Dwg. 12 of 37**








**Office of Construction and Facilities Management**

**Department of Veterans Affairs**







REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	-
	9/SF501	LEVELING COMPOUND	670 SF
	10/SF501	INSTALL / REPAIR COVE SEALANT	-
	11/SF501	TRAFFIC BEARING MEMBRANE	25350 SF
	12/SF501	RAMP BEAM REPLACEMENT	-
	13/SF501	BOLLARD REPAIR	-
	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

- NOTE:  
SEE SPECIFICATION AND SHEETS GI001 / SI001 FOR LIST OF ALTERNATES AND  
ADDITIONAL INFORMATION.

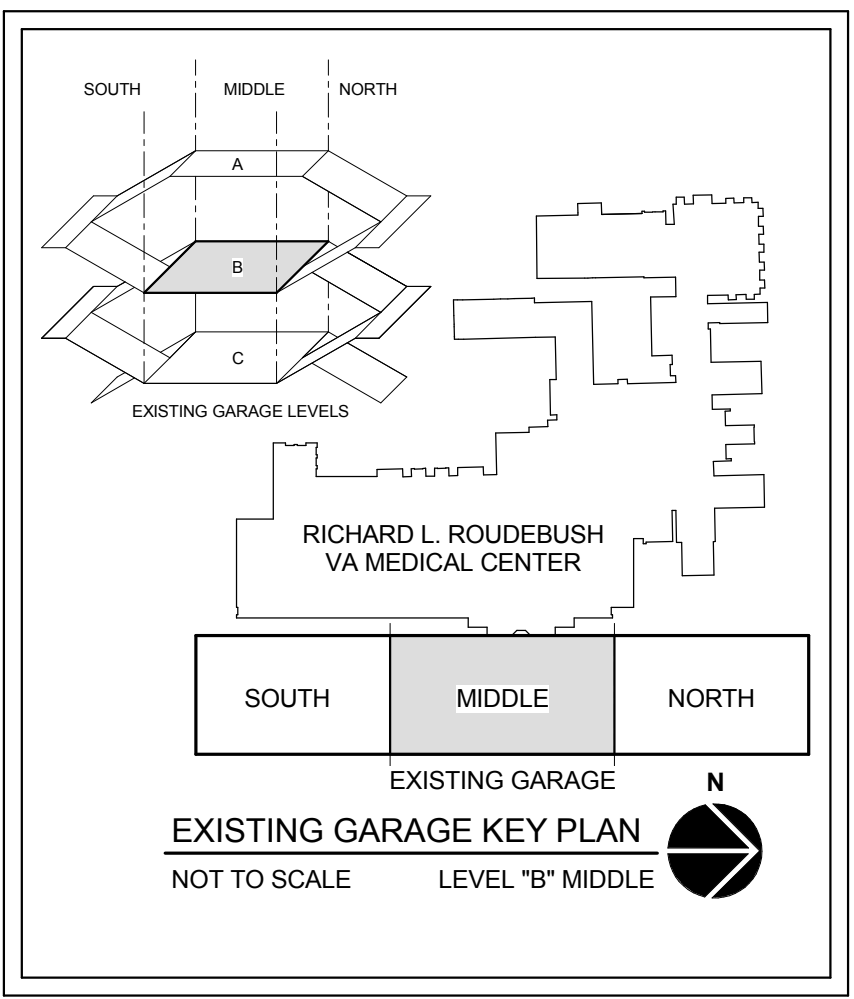









Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs







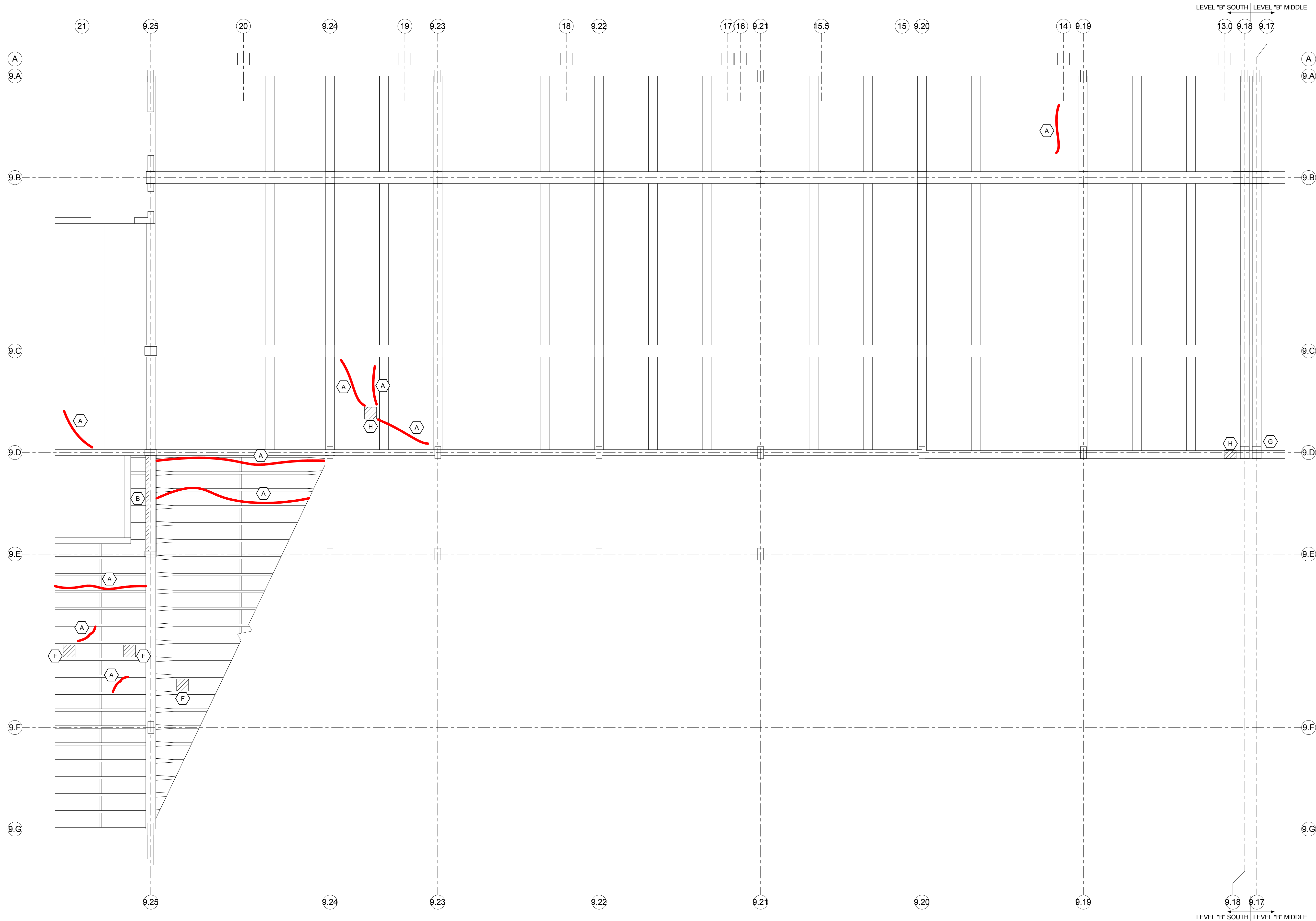
REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	5 SF
	9/SF501	LEVELING COMPOUND	-
	10/SF501	INSTALL / REPAIR COVE SEALANT	-
	11/SF501	TRAFFIC BEARING MEMBRANE	-
	12/SF501	RAMP BEAM REPLACEMENT	-
	13/SF501	BOLLARD REPAIR	-
	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs

one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot

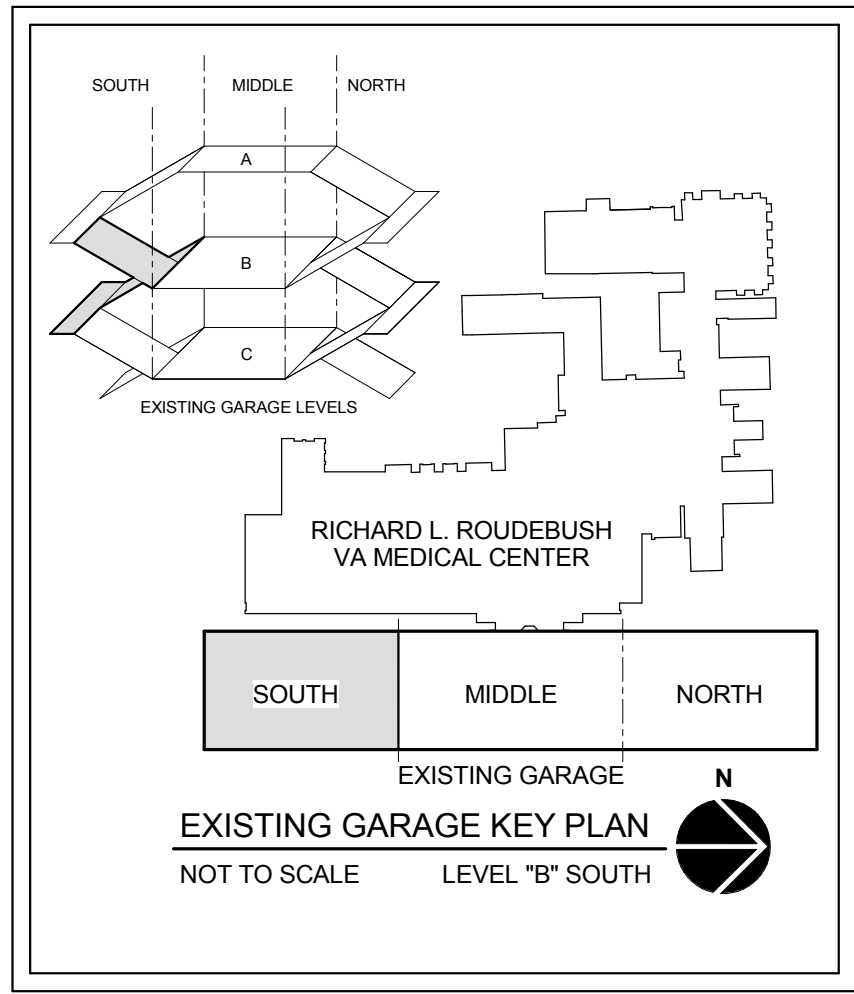
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REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
A	1/SF501	CRACK / CONTROL JOINT REPAIR	135 LF
B	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	-
C	3/SF501	STAIR TREADS REPAIR	-
D	4/SF501	TOPPING SLAB	-
E	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	-
F	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	1 SF
G	7/SF501	COLUMN REPAIR	-

REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
H	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	35 SF
J	9/SF501	LEVELING COMPOUND	-
K	10/SF501	INSTALL / REPAIR COVE SEALANT	-
L	11/SF501	TRAFFIC BEARING MEMBRANE	-
M	12/SF501	RAMP BEAM REPLACEMENT	-
N	13/SF501	BOLLARD REPAIR	-
O	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	-

- 1** SF200B-S 1/8" = 1'-0"
- NOTES:**
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  - INSTALL SHORING / PROTECTION, BY CONTRACTOR.
  - WASH DOWN UNDERSIDE OF DECK / JOIST / BEAM WHERE MINERAL BUILD-UP HAS OCCURRED, TYP (1000 SF ASSUMED).



Revision Schedule	
Comments	Date

**CONSULTANTS:**

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www.structurepoint.com

**CERTIFICATION**

REGISTERED PROFESSIONAL ENGINEER  
NO. 900414  
SINCE 05/11/08  
INDIANA  
DONALD G. COOPER  
11/08/2014

**ARCHITECT/ENGINEERS:**

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**Drawing Title**

**STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "B" SOUTH**

Approved: Project Director

**Project Title**

**REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE**

Location: INDIANAPOLIS, IN

Date: 11/08/2014

Checked: JAP

Drawn: BGC

**9FY14**

Project Number: 583-13-220

Building Number: BUILDING #9

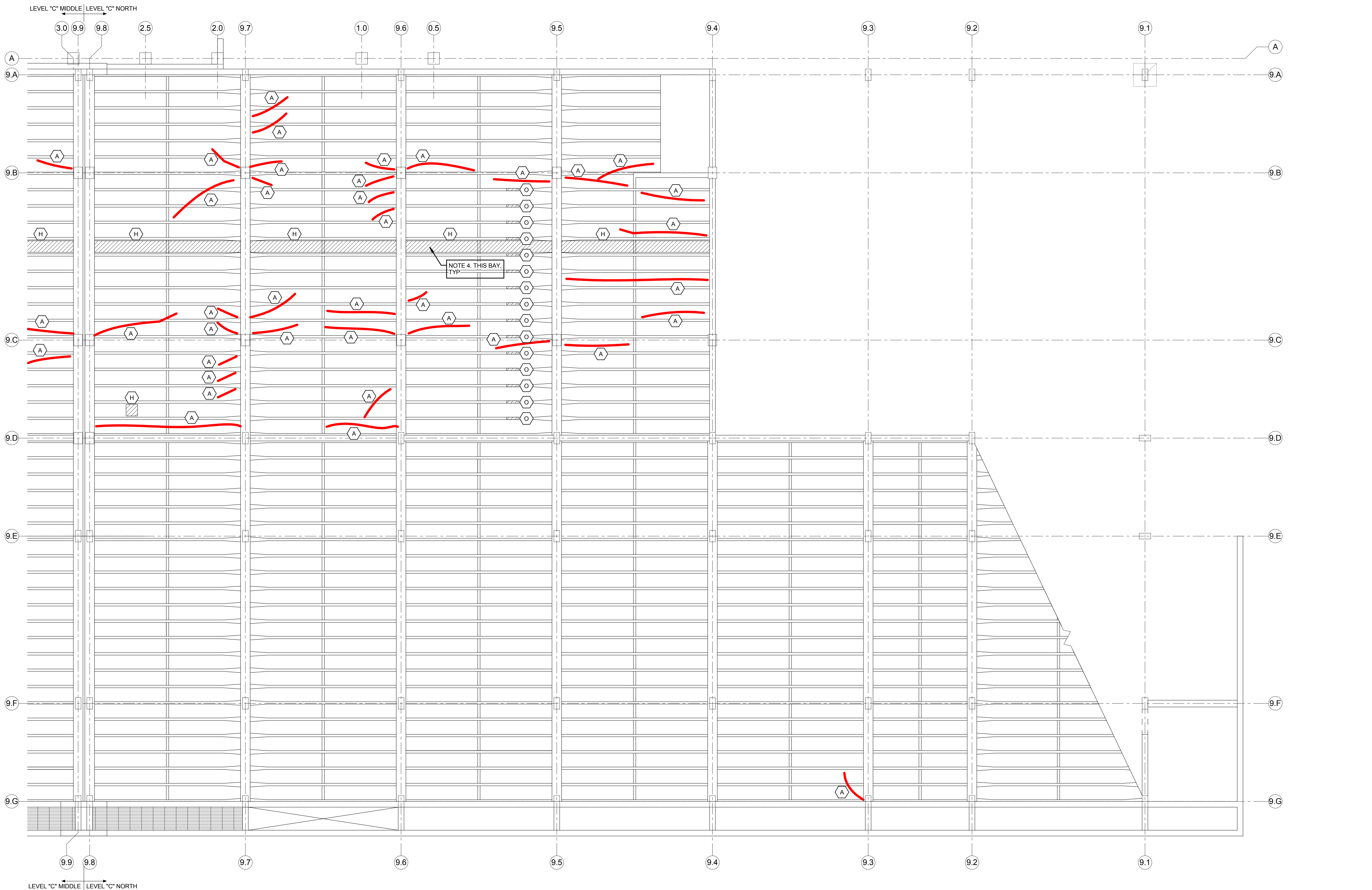
Drawing Number: SF200B-S

Dwg. 17 of 37

**Office of Construction and Facilities Management**

**Department of Veterans Affairs**

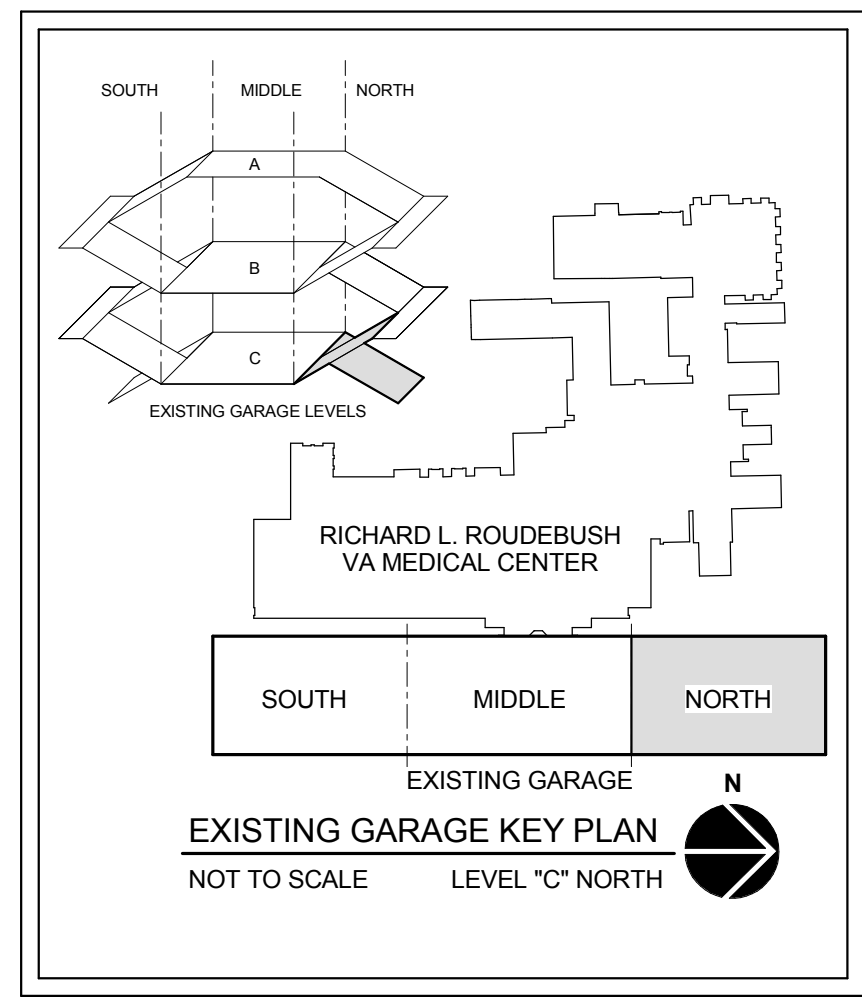




REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
A	1/SF501	CRACK / CONTROL JOINT REPAIR	365 LF
B	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	-
C	3/SF501	STAIR TREADS REPAIR	-
D	4/SF501	TOPPING SLAB	-
E	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	-
F	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	-
G	7/SF501	COLUMN REPAIR	-

REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
H	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	220 SF
J	9/SF501	LEVELING COMPOUND	-
K	10/SF501	INSTALL / REPAIR COVE SEALANT	-
L	11/SF501	TRAFFIC BEARING MEMBRANE	-
M	12/SF501	RAMP BEAM REPLACEMENT	-
N	13/SF501	BOLLARD REPAIR	-
O	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	30 SF

- 1  
SF200C-N  
1/8" = 1'-0"
- STRUCTURAL REPAIR PLAN LEVEL "C" NORTH - UNDERSIDE**
- NOTES:
- INDICATED SCOPE OF WORK ON CONSTRUCTION DOCUMENTS IS NOT MEANT TO BE ALL INCLUSIVE. CONTRACTOR TO FIELD VERIFY / INSPECT / EVALUATE THE ENTIRE SITE FOR SIMILAR INSTANCES OF STRUCTURAL DEFICIENCIES, CORROSION, RUST, DETERIORATION, ELECTRICAL DEFICIENCIES, AND OTHER FAILURES WITHIN THE EXISTING PARKING GARAGE CONSTRUCTION LIMIT LINE. ANY ADDITIONAL ITEMS THAT ARE FOUND SHOULD BE BROUGHT TO THE ATTENTION OF THE CO/CO AS SOON AS POSSIBLE.
  - INSTALL SHORING / PROTECTION BY CONTRACTOR.
  - WASH DOWN UNDERSIDE OF DECK / JOIST / BEAM WHERE MINERAL BUILD-UP HAS OCCURRED. TYP (1000 SF ASSUMED).
  - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CONDUIT REMOVAL IN THIS AREA.



Revision Schedule	
Comments	Date

**CONSULTANTS:**

**AMERICAN STRUCTUREPOINT INC.**

7260 SHADELAND STATION  
INDIANAPOLIS, IN 46256-3957  
TEL 317.547.5580 FAX 317.543.0270  
www.structurepoint.com

**CERTIFICATION**

Professional Engineer  
No. 900414  
State of Indiana  
11/08/2014

**ARCHITECT/ENGINEERS:**

**VIRIDIAN ARCHITECTURAL DESIGN INC.**

2020 E. Washington Boulevard  
Suite 200  
Fort Wayne, Indiana 46803  
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Drawing Title  
**STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "C" NORTH**

Approved: Project Director

Project Title  
**REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE**

Location  
INDIANAPOLIS, IN

Date  
11/08/2014

Checked  
JAP

Drawn  
BGC

9FY14  
Project Number  
583-13-220

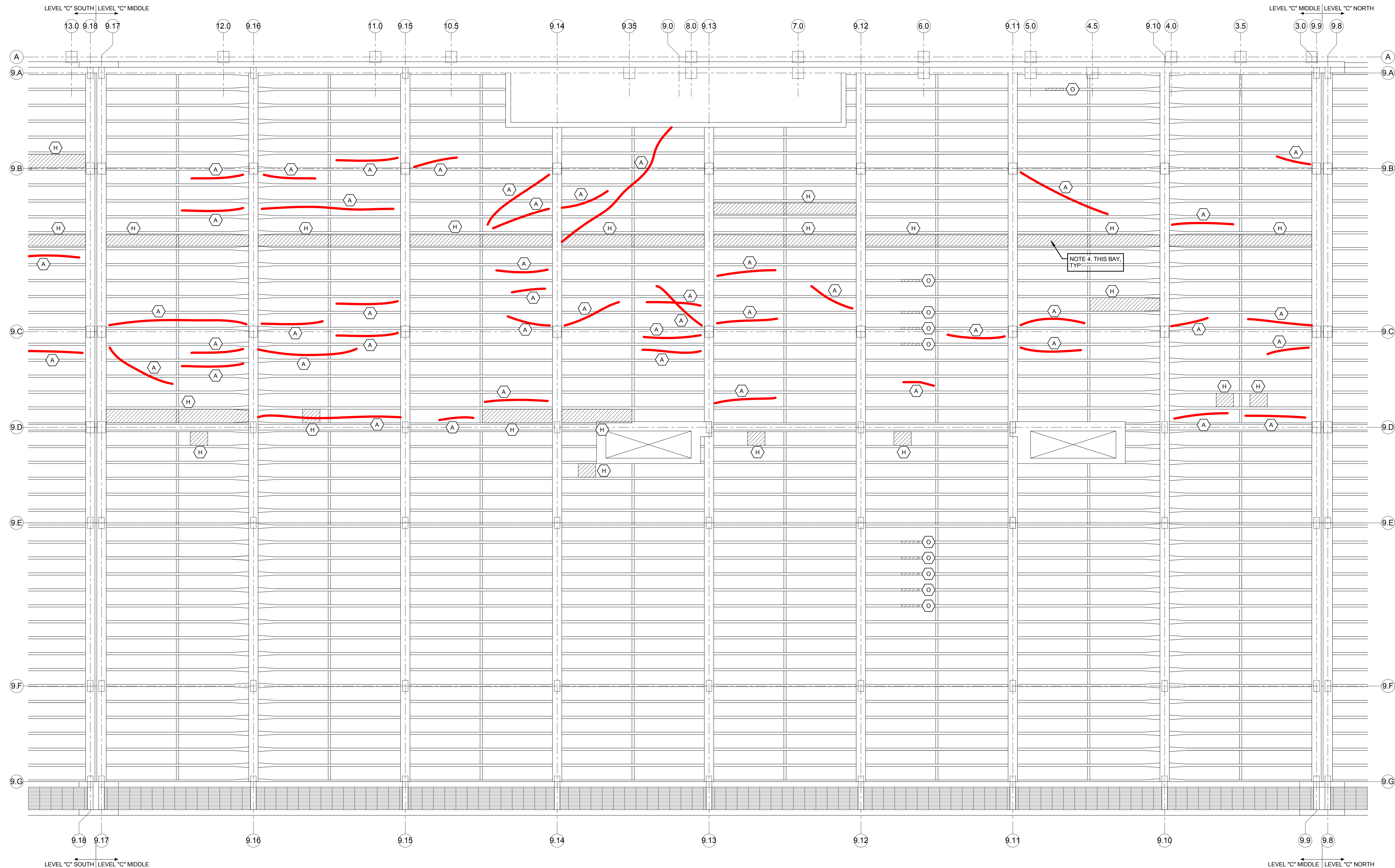
Building Number  
**BUILDING #9**

Drawing Number  
**SF200C-N**

Dwg. 18 of 37

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

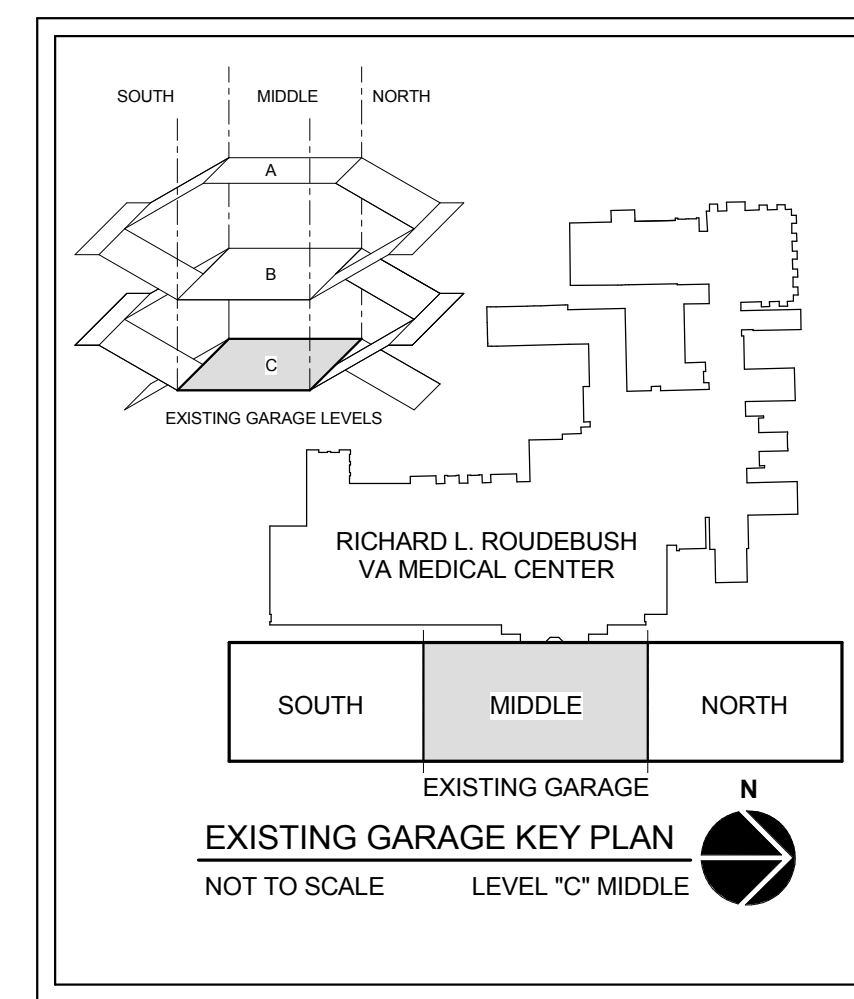


REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
(A)	1/SF501	CRACK / CONTROL JOINT REPAIR	730 LF
(B)	2/SF501	SHALLOW PATCH REPAIR (3" MAXIMUM DEPTH)	-
(C)	3/SF501	STAIR TREADS REPAIR	-
(D)	4/SF501	TOPPING SLAB	-
(E)	5/SF501	CONCRETE WALL REPAIR (4" MAXIMUM DEPTH)	-
(F)	6/SF501	FULL-DEPTH PATCH AT PIPE PENETRATIONS	-
(G)	7/SF501	COLUMN REPAIR	-

REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
(H)	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	500 SF
(J)	9/SF501	LEVELING COMPOUND	-
(K)	10/SF501	INSTALL / REPAIR COVE SEALANT	-
(L)	11/SF501	TRAFFIC BEARING MEMBRANE	-
(M)	12/SF501	RAMP BEAM REPLACEMENT	-
(N)	13/SF501	BOLLARD REPAIR	-
(O)	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	25 SF

1 SF200C-M 1/8" = 1'-0" **STRUCTURAL REPAIR PLAN LEVEL "C" MIDDLE - UNDERSIDE**

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  - INSTALL SHORING / PROTECTION BY CONTRACTOR.
  - WASH DOWN UNDERSIDE OF DECK / JOIST / BEAM WHERE MINERAL BUILD-UP HAS OCCURRED. TYP (1000 SF ASSUMED).
  - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CONDUIT REMOVAL IN THIS AREA.



Revision Schedule	
Comments	Date

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**CERTIFICATION**

PROFESSIONAL SEAL  
DONALD G. COOPER  
NO. 900414  
SINCE 05/01/2011  
INDIANA  
11/08/2014

**ARCHITECT/ENGINEERS:**

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**Drawing Title**

**STRUCTURAL REPAIR PLAN REFLECTED CEILING PLAN LEVEL "C" MIDDLE**

**Approved:** Project Director

**Project Title**

**REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE**

**Location**  
INDIANAPOLIS, IN

**Date**  
11/08/2014

**Checked**  
JAP

**Drawn**  
BGC

**9FY14**

**Project Number**  
583-13-220

**Building Number**  
**BUILDING #9**

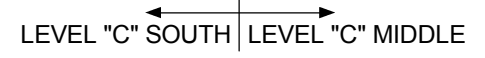
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**SF200C-M**








**Dwg. 19 of 37**

**Office of Construction and Facilities Management**

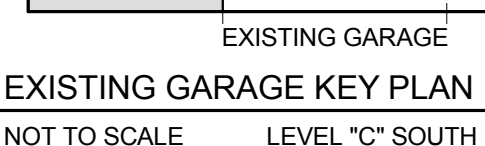
**Department of Veterans Affairs**





REPAIR QUANTITY SCHEDULE			
MARK	DETAIL	DESCRIPTION	TOTAL THIS SHEET (UNITS)
	8/SF501	OVERHEAD REPAIR (4" MAXIMUM DEPTH)	410 SF
	9/SF501	LEVELING COMPOUND	-
	10/SF501	INSTALL / REPAIR COVE SEALANT	-
	11/SF501	TRAFFIC BEARING MEMBRANE	-
	12/SF501	RAMP BEAM REPLACEMENT	-
	13/SF501	BOLLARD REPAIR	-
	14/SF501	JOIST REPAIR (4" MAXIMUM DEPTH)	5 SF

1. INDICATED SCOPE OF WORK ON CONSTRUCTION DOCUMENTS IS NOT MEANT TO BE ALL INCLUSIVE. CONTRACTOR TO FIELD VERIFY / INSPECT / EVALUATE THE ENTIRE SITE FOR SIMILAR INSTANCES OF STRUCTURAL DEFICIENCIES, CORROSION, SLOTTED DETERIORATION, ELECTRICAL DEFICIENCIES, AND OTHER FAILURES WITHIN THE EXISTING PARKING GARAGE CONSTRUCTION LIMITS. ANY ADDITIONAL ITEMS THAT ARE FOUND SHOULD BE BROUGHT TO THE ATTENTION OF THE CO/CR AS SOON AS POSSIBLE.
2. INSTALL SHORING / PROTECTION BY CONTRACTOR.
3. REMOVE DOWN UNDERFLOOR WHERE MINERAL BUILD-UP HAS OCCURRED, TYP (1000 SF ASSUMED);
4. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CONDUIT REMOVAL IN THIS AREA.

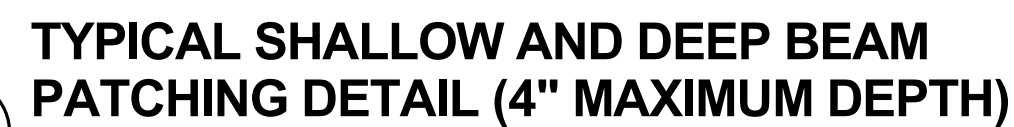


Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs








**CONSULTANTS:**

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STRUCTUREPOINT**  
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Project Title		
REPAIR STRUCTURAL DEFICIENCIES EXISTING GARAGE		
Location		
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Office of  
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