

# R.L. ROUDEBUSH VA MEDICAL CENTER

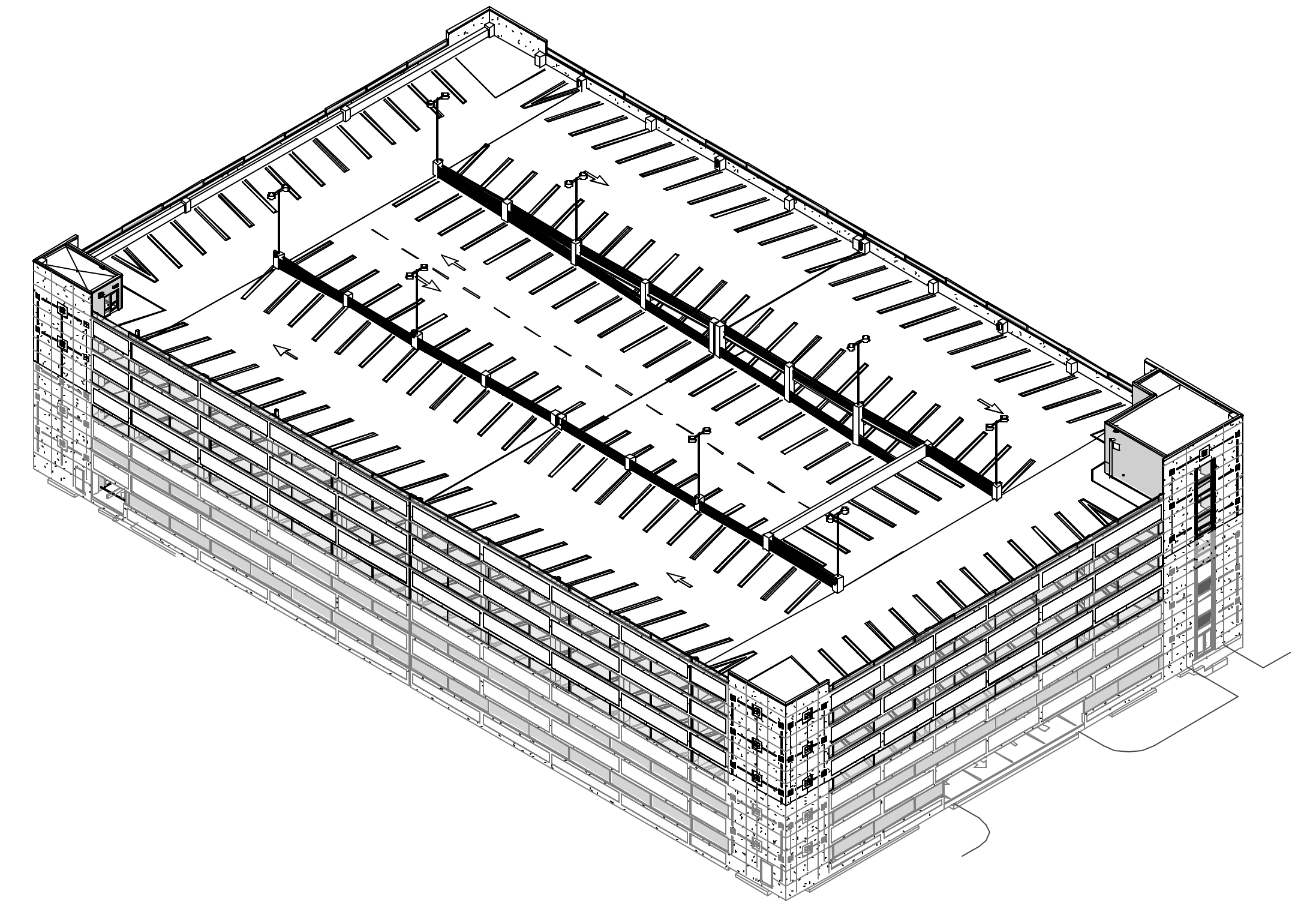
## PARKING GARAGE EXPANSION PROJECT #583-330



RICHARD L. ROUDEBUSH  
VA MEDICAL CENTER  
ENGINEERING SERVICE  
1481 W. 10th Street, BLDG. 5  
Indianapolis, Indiana 46202

### INDEX OF DRAWINGS

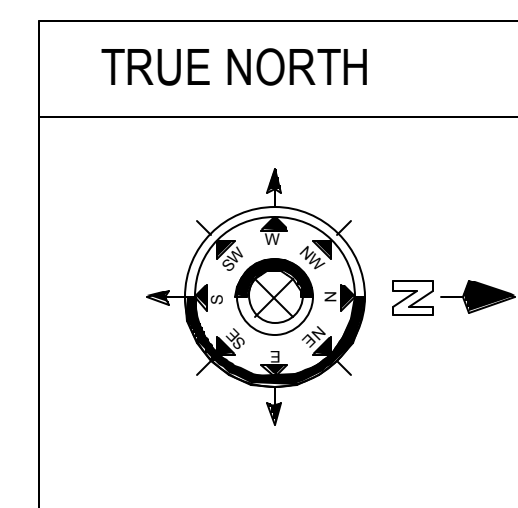
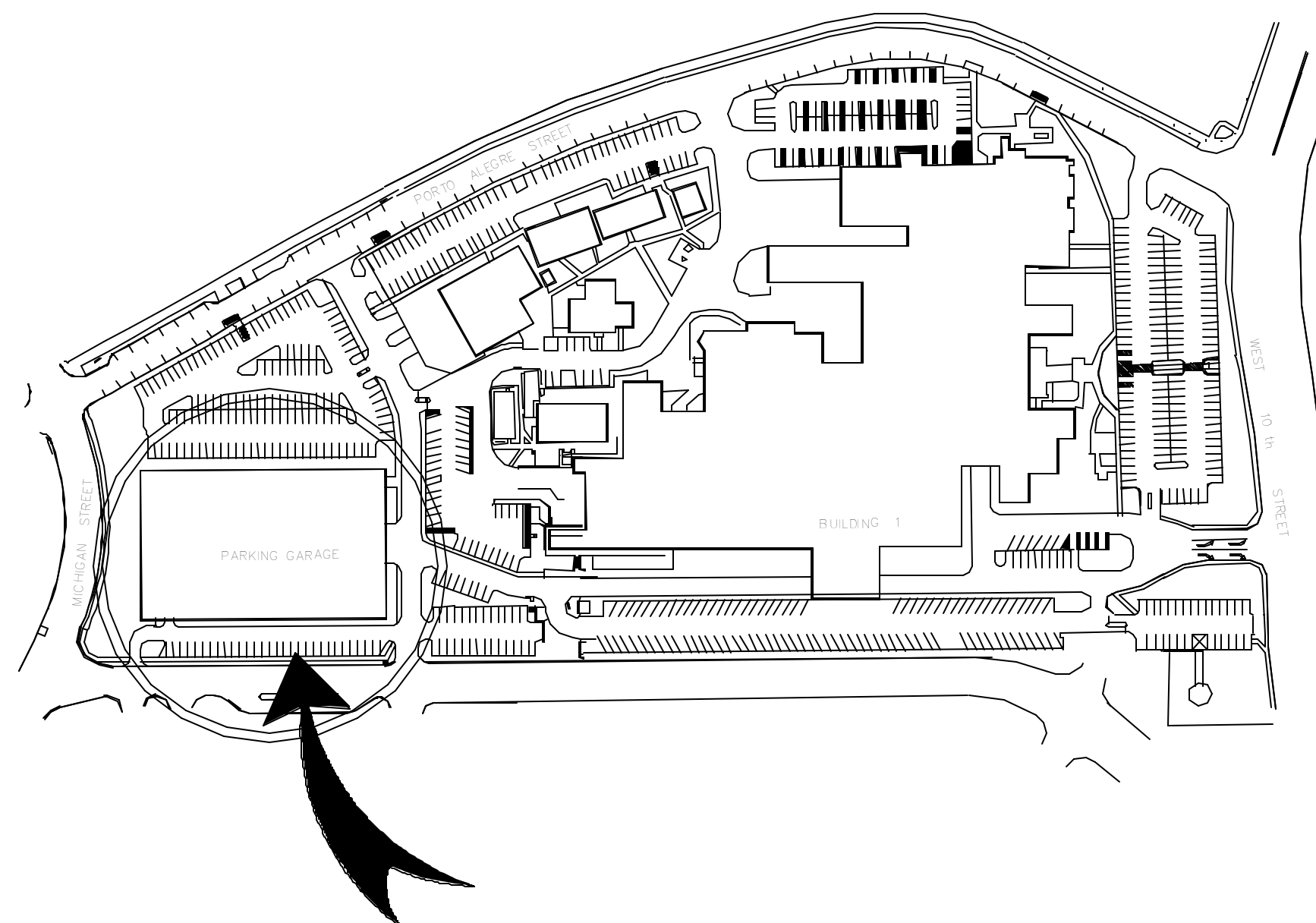
SHEET NUMBER	SHEET NAME	SHEET NUMBER	SHEET NAME	SHEET NUMBER	SHEET NAME
GENERAL		AS201	EXTERIOR ELEVATIONS	E501	ELECTRICAL ONE-LINE DIAGRAM
G001	COVER SHEET	AS202	EXTERIOR ELEVATIONS	E601	ELECTRICAL SCHEDULES
G002	ARCHITECTURAL SYMBOLS, NOTES, WALL TYPES AND ABBREVIATIONS	AS203	NORTH AND EAST ENLARGED ELEVATIONS	E602	ELECTRICAL SCHEDULES
LS101	LIFE SAFETY PLANS - PARKING GARAGE	AS204	WEST AND SOUTH ENLARGED ELEVATIONS	FIRE SUPPRESSION	
QD-101	CONSTRUCTION STAGING PLAN	AS301	GARAGE BUILDING SECTIONS	R000	FIRE SUPPRESSION SYMBOLS & ABBREVIATIONS
STRUCTURAL		AS302	GARAGE WALL SECTIONS	F102	FIRE SUPPRESSION THIRD LEVEL PLANS
SI001	ABBREVIATIONS AND SYMBOLS	AS303	GARAGE WALL SECTIONS	F103	FIRE SUPPRESSION FOURTH LEVEL PLANS
SI002	GENERAL NOTES	AS401	GARAGE ELEVATOR LOBBY ENLARGED PLANS	F104	FIRE SUPPRESSION FIFTH LEVEL PLANS
SI003	GENERAL NOTES AND SPECIAL INSPECTION TABLES	AS402	GARAGE ELEVATOR LOBBY ENLARGED REFLECTED CEILING PLANS	F105	FIRE SUPPRESSION SIXTH LEVEL PLANS
SI004	LOAD MAPS	AS403	NORTH GARAGE STAIR PLANS & SECTIONS		
SB101	EXISTING FOUNDATION PLAN	AS404	SOUTH GARAGE STAIR PLANS AND SECTIONS		
SF101	EXISTING SLAB ON GRADE PLAN	AS405	GARAGE ELEVATOR SECTIONS		
SF102	EXISTING LEVEL 2 FRAMING PLAN	AS501	SECTION DETAILS		
SF103	EXISTING / NEW LEVEL 3 FRAMING PLAN	AS502	SECTION DETAILS		
SF103A	NEW LEVEL 3 PT / REINFORCING PLAN	AS601	DOOR SCHEDULE AND DETAILS		
SF104	NEW LEVEL 4 FRAMING PLAN	AS602	ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS		
SF104A	NEW LEVEL 4 PT / REINFORCING PLAN	AS603	INTERIOR ELEVATIONS		
SF105	NEW LEVEL 5 FRAMING PLAN	AS605	PAVEMENT MARKING DETAILS		
SF105A	NEW LEVEL 5 PT / REINFORCING PLAN	AS607	NEW FIRST AND SECOND FLOOR SIGNAGE PLANS		
SF106	NEW LEVEL 6 FRAMING PLAN	AS608	NEW THIRD & FOURTH FLOOR SIGNAGE PLANS		
SF106A	NEW LEVEL 6 PT / REINFORCING PLAN	AS609	NEW FIFTH & SIXTH FLOOR SIGNAGE PLANS		
SF301	BUILDING SECTIONS	MECHANICAL			
SF302	BUILDING SECTIONS	M000	MECHANICAL SYMBOLS & ABBREVIATIONS		
SF401	ENLARGED PLANS	M101	MECHANICAL PARKING GARAGE PLANS		
SF511	TYPICAL COLUMN AND WALL DETAILS AND SCHEDULES	M601	MECHANICAL DETAILS AND SCHEDULES		
SF512	TYPICAL COLUMN DETAILS	PLUMBING			
SF521	TYPICAL POST-TENSIONED SLAB DETAILS	P000	PLUMBING SYMBOLS & ABBREVIATIONS		
SF531	TYPICAL PT AND MILD BEAM DETAILS	P102	PLUMBING THIRD LEVEL PLAN		
SF532	POST-TENSIONED CONCRETE BEAM SCHEDULE	P103	PLUMBING FOURTH LEVEL PLAN		
SF533	MILD REINFORCED BEAM SCHEDULE	P104	PLUMBING FIFTH LEVEL PLAN		
SF541	CONCRETE FRAMING SECTIONS	P105	PLUMBING SIXTH LEVEL PLAN		
SF542	CONCRETE FRAMING SECTIONS	ELECTRICAL			
SF551	TYPICAL STEEL AND CMU DETAILS AND SCHEDULES	E000	ELECTRICAL LEGEND & ABBREVIATIONS		
SF552	FRAMING SECTIONS AND DETAILS	ED101	ELECTRICAL FIRST AND SECOND LEVEL DEMOLITION PLANS		
SF901	AXONOMETRICS	ED102	ELECTRICAL THIRD LEVEL DEMOLITION PLAN		
ARCHITECTURAL DEMOLITION		EL101	ELECTRICAL FIRST LEVEL LIGHTING PLAN		
AD101	FIRST AND SECOND FLOOR DEMOLITION PLANS	EL102	ELECTRICAL THIRD LEVEL LIGHTING PLAN		
AD102	THIRD LEVEL DEMOLITION PLAN	EL103	ELECTRICAL FOURTH LEVEL LIGHTING PLAN		
AD103	THIRD LEVEL ENLARGED DEMOLITION PLANS	EL104	ELECTRICAL FIFTH LEVEL LIGHTING PLAN		
AS101	EXISTING FIRST AND SECOND LEVEL PLANS	EL105	ELECTRICAL SIXTH LEVEL LIGHTING PLAN		
AS102	EXISTING THIRD LEVEL PLAN	EP101	ELECTRICAL FIRST AND SECOND LEVEL POWER & SYSTEMS PLAN		
AS103	NEW FOURTH LEVEL PLAN	EP102	ELECTRICAL THIRD LEVEL POWER & SYSTEMS PLAN		
AS104	NEW FIFTH LEVEL PLAN	EP103	ELECTRICAL FOURTH LEVEL POWER & SYSTEMS PLAN		
AS105	NEW SIXTH LEVEL PLAN	EP104	ELECTRICAL FIFTH LEVEL POWER & SYSTEMS PLAN		
AS110	ROOF PLANS	EP105	ELECTRICAL SIXTH LEVEL POWER & SYSTEMS PLAN		
		E401	ELECTRICAL TELECOMMUNICATIONS/CCTV SCHEMATIC		



### VICINITY MAP1



### LOCATION MAP



### BID DOCUMENTS

<table><tr><th>Revision Schedule</th><th>Comments</th><th>Date</th></tr><tr><td> </td><td> </td><td> </td></tr></table>	Revision Schedule	Comments	Date				<b>CONSULTANTS:</b>  <b>FireLogix</b> ENGINEERING, LTD.	<b>ARCHITECT/ENGINEERS:</b>  <b>AMERICAN STRUCTUREPOINT INC.</b> 7200 Shadeland Station   Indianapolis, Indiana 46256 TEL 317.547.5580   FAX 317.543.9279 www.structurepoint.com  <b>Ross &amp; Baruzzini</b> 	Drawing Title <b>COVER SHEET</b>	<table><tr><td colspan="3">Project Title <b>R.L. Roudebush VA Medical Center Parking Garage</b></td></tr><tr><td colspan="3">Location <b>INDIANAPOLIS, IN</b></td></tr><tr><td>Date <b>10/14/14</b></td><td>Checked <b>RSB</b></td><td>Drawn <b>VFS</b></td></tr></table>	Project Title <b>R.L. Roudebush VA Medical Center Parking Garage</b>			Location <b>INDIANAPOLIS, IN</b>			Date <b>10/14/14</b>	Checked <b>RSB</b>	Drawn <b>VFS</b>	<table><tr><td>Project Number <b>583-330</b></td></tr><tr><td>Building Number <b>20</b></td></tr><tr><td>Drawing Number <b>G001</b></td></tr><tr><td>Dwg. 1 of 93</td></tr></table>	Project Number <b>583-330</b>	Building Number <b>20</b>	Drawing Number <b>G001</b>	Dwg. 1 of 93	<b>Office of Construction and Facilities Management</b> 
Revision Schedule	Comments	Date																							
Project Title <b>R.L. Roudebush VA Medical Center Parking Garage</b>																									
Location <b>INDIANAPOLIS, IN</b>																									
Date <b>10/14/14</b>	Checked <b>RSB</b>	Drawn <b>VFS</b>																							
Project Number <b>583-330</b>																									
Building Number <b>20</b>																									
Drawing Number <b>G001</b>																									
Dwg. 1 of 93																									



4 RATED WALL PRIORITY  
G002 N.T.S.

F	
F/F	FACE TO FACE
FBD	FIBERBOARD
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FGL	FIBERGLASS
FHC	FIRE HOSE CABINET
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FIN FL	FINISHED FLOOR
FLOUR	FLOURESCENT
FLR (FLRG)	FLOOR(ING)
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD

O	
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HAND	OPPOSITE HAND
OPT	OPTIONAL
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL

VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIN	VINYL
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	
WW	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WALL HUNG
WT	WEIGHT

GENERAL CONTRACTOR IS TO FOLLOW AND OBEY ALL FEDERAL, STATE AND LOCAL CODES, LAWS, SAFETY REGULATIONS AND HAZARDOUS WASTE LAWS.

DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN EACH BUILDING COMPONENT LOCATION. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

FIRE EXTINGUISHER CABINET LOCATIONS SHOWN ARE SUGGESTED LOCATIONS ONLY. FIRE EXTINGUISHERS AND CABINETS TO COMPLY WITH NFPA 101 AND NFPA 10. CONTRACTOR TO VERIFY QUANTITY AND EXACT LOCATION WITH FIRE DEPARTMENT.

BUILDING GROUND FLOOR REFERENCE ELEVATION IS 100'-0". SEE CIVIL DRAWINGS FOR U.S.G.S. ELEVATION.

ALL CONSTRUCTION MATERIALS TO BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.

CAULK INTERSECTION BETWEEN DIFFERENT MATERIALS.

EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO BIDDING OR COMMENCEMENT OF WORK. ANY OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.

ALL ITEMS NOT SYMBOLIZED OR NOTED ARE EXISTING TO REMAIN.

UNLESS OTHERWISE SPECIFIED, ALL FINISHES ARE TO BE OBTAINED FROM THE SAME SOURCE. WALLS, FLOORS AND CEILINGS FOR DUCTWORK, CONDUIT AND ALL OTHER MEP SYSTEMS SHALL BE BY THE RESPECTIVE MANUFACTURER AND ELECTRIC CODES SHALL GOVERN ALL EXISTING MATERIAL, FINISH AND FIRE RATING AT WALLS TO BE PATCHED COORDINATE WORK WITH G.C.

COVER ALL RETURN AIR AND EXHAUST GRILLES IN AREA WITH FILTER MEDIA AND REPAIRATION JOBS AND CHANGE REGULARLY.

CONTRACTORS SHALL BE RESPONSIBLE FOR RELOCATING AND/OR REMOVING EXISTING CONSTRUCTION THAT CONFLICTS WITH NEW CONSTRUCTION.

ALL WORK TO BE COORDINATED BY THE GENERAL CONTRACTOR TO ASSURE ADEQUATE FIT, FINISH, SYSTEM OPERATION, AND FULL COMPLIANCE OF THE PROJECT WITH ALL CITY, STATE AND FEDERAL AND THE OWNER'S FIXTURES, FURNISHINGS, AND EQUIPMENT.

ALL NEW INTERIOR FINISHES, INCLUDING FLOOR, WALL AND CEILING FINISHES SHALL BE BY THE MANUFACTURER'S RECOMMENDATION TO MEET DEVELOPMENT REQUIREMENTS AS PART OF CHAPTER 8 CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE.

PATCH WALLS, FLOORS, COLUMNS, AND CEILINGS TO MATCH ADJACENT FINISHES AND COLOR WHERE ITEMS ARE REMOVED UNLESS NOTED OTHERWISE.

CONTRACTORS SHALL CHECK WITH OWNER TO DETERMINE WHICH ITEMS ARE TO BE REPAIRED OR REPLACED.

PROVIDE EQUIPMENT AND DUST PROTECTION AS DETERMINED BY OWNER. ALL OPENINGS REQUIRED IN NEW CONSTRUCTION FOR DUCTWORK, CONDUIT, AND ALL OTHER MEP SYSTEMS SHALL BE BY G.C.

ALL DUCTS, PIPING, AND ALL OTHER MEP SYSTEMS SHALL BE INSTALLED IN CONSTRUCTION TO MATCH ADJACENT MATERIALS. IF THE OPENINGS ARE NOT MATCHED BY WALL, FLOOR OR CEILING, THEY SHALL BE COMPARED TO THE SURROUNDING CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR COMPLETE PATCH AND REPAIR OF ALL DAMAGE TO EXISTING MATERIALS AND FINISHES. REPAIR OR REPLACE ALL DAMAGED SURFACES SHALL BE REPAIRED OR REPLACED USING MATERIALS WITH MINIMUM QUALITY EQUAL TO THAT OF ORIGINAL OR ADJACENT MATERIAL. WHEN REPAIRING OR REPLACING SURFACES, REPAIRED/REPLACED SURFACES ARE TO BE PREPARED TO RECEIVE FINISHES AS SCHEDULED WITHOUT VISIBLE SEAM OR SEPARATION.

REPAIRS TO BE PERFORMED IN ACCORDANCE WITH WORKSHOP PATTERN AND MANNER ACCEPTABLE TO THE ARCHITECT AND OWNER.

PROVIDE SHEET METAL OR FIRE RATED FLOW BLOCKING IN WALLS WITH DUCTWORK OR PIPING THAT ARE REQUIRED TO BE SEPARATED FROM WALLS, FLOORS AND CEILING. ALL PENETRATIONS THROUGH WALL PARTITIONS, INCLUDING, BUT NOT LIMITED TO WATER LINES, DRAINS, CONDUIT, THERMOSTATS AND ALL OTHER MEP SYSTEMS, INSTALL FIRE RATED PENETRATIONS.

VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY THE VA COR OF CONFLICTS PRIOR TO PROCEEDING.

REPAIR OR REPLACE ALL DAMAGED OR MISSING PROPERTY OF THE CLIENT UNTIL CONFIRMATION HAS BEEN MADE AS TO WHETHER THE CLIENT WILL RETAIN SUCH ITEMS. ALL ITEMS NOT BEING RETAINED BY THE CLIENT ARE TO BE DESIGNATED AS UNWANTED AND EITHER RELOCATED OR REINSTALLED SHALL BE COMPLETELY REMOVED FROM THE SITE.

THE DEMOLITION CONTRACTOR SHALL REVIEW ALL APPLICABLE REGULATORY REQUIREMENTS IN REFERENCE TO HAZARDOUS MATERIALS AND THEIR HANDLING. ALL EQUIPMENT AND ASSOCIATED PROTECTION SHALL BE PROVIDED TO COMPLETE DEMOLITION EXTENTS IN ENVIRONMENTAL AND SAFETY COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS.

REFER TO ALL DISCIPLINES FOR COORDINATION OF DEMOLITION WORK. PREPARE AND PATCH ALL WALLS, CEILINGS, AND FLOORS INDICATED TO REMAIN WITHIN AREAS OF WORK FOR NEW FINISHES.

ALL MATERIALS TO BE REMOVED SHALL BE RELOCATED IN ACCORDANCE WITH OWNER'S INSTRUCTIONS.

PROTECT ALL REMAINING ITEMS DURING CONSTRUCTION.

THE DEMOLITION CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY PROTECTIONS IN REFERENCE TO HAZARDOUS MATERIALS, TEMPORARY DROPS, WALK-OFF MATS AND EQUIPMENT PROTECTION WHERE SHOWN ON THE DOCUMENTS OR IMPLIED BY THE WORK BEING PERFORMED. ALL PROTECTIVE MEASURES SHALL BE MAINTAINED AND REPAIRED PROMPTLY IF DAMAGED TO AVOID DUST INFILTRATION INTO ADJACENT AREAS.

COVER ALL RETURN AIR GRILLES AND EXHAUST GRILLES IN CONSTRUCTION AREA WITH FILTER MEDIA AND CHANGE REGULARLY.

REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS FOR ALL REQUIREMENTS.

REPAIR AND LEVEL FLOOR SLAB, WALLS AND ROOF CEILING SUITABLE FOR NEW FINISHES WHERE DEMOLITION CAUSES OR EXPOSING DAMAGE TO THE EXISTING FINISHES.

CUT AND PATCH ALL DAMAGED/ADJACENT FLOORING TO REMAIN AS REQUIRED TO MATCH EXISTING DEFLECTED FLOORING.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING DUMPER

REPAIR AND PATCH ALL WALLS AND FLOORS WHERE EXISTING ITEMS AND/OR PARTITIONS ARE BEING REMOVED TO MATCH EXISTING ADJACENT FINISHES.

WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND REPORT ANY ERRORS OR DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

EXISTING MATERIALS TO BE REMOVED AND REINSTALLED AS PART OF THIS PROJECT, THAT BECAME DAMAGED, SHALL BE REPLACED WITH NEW MATERIALS OF EQUAL QUALITY AND APPEARANCE.

CONTRACTOR EXPENSE.

CONTRACTOR SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT AREAS. ALL ADJACENT AREAS SHALL BE PROTECTED FROM DUST, DIRT, AND DEBRIS ACCUMULATION AT ALL TIMES.

CONTRACTORS SHALL BE RESPONSIBLE FOR RELOCATING AND/OR REMOVING EXISTING CONSTRUCTION THAT CONFLICTS WITH NEW CONSTRUCTION.

ALL OPERABLE LIGHT FIXTURES ARE TO BE SALVAGED, RECLAIMED, AND RELOCATED TO THE SAME LOCATION.

ALL FURNITURE, FURNISHINGS AND EQUIPMENT WILL BE REMOVED, EXISTING AND/OR STORED BY CONTRACTOR UNLESS NOTED OTHERWISE.

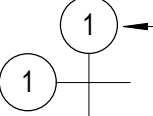



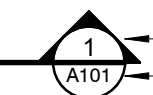

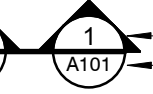



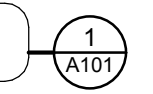



RELOCATING FINISHES ARE NOTED IN SPECIFICATION SECTION 090600.

CONTRACTOR SHALL PROTECT EXISTING AREAS OF GARAGE DURING CONSTRUCTION ACTIVITIES SO THAT DAMAGE DOES NOT OCCUR TO EXISTING FINISHES AND CONTENTS.

CONTRACTOR SHALL PROTECT EXISTING THREE LEVELS OF THE GARAGE FROM CONSTRUCTION DAMAGE ONCE THE VA HAS RESUMED OCCUPANCY OF THESE LEVELS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING CONSTRUCTION FROM CONSTRUCTION DAMAGE.

GRATING (SECTION)  
GYPSUM WALL BOARD  
INSULATED GLASS:  
(DETAIL)  
INSULATED GLASS:  
(SMALL SCALE)  
MEMBRANE: WATER  
ROOF, DAMPPROOF  
METAL: ROLLED SHA  
METAL: TYPE AS NOTED  
PARTICLEBOARD  
PLASTER ON METAL  
PLYWOOD  
RESINOUS FLOORING  
TERRAZO, TROWEL-  
RIGID INSULATION:  
ACOUSTICAL, OR SAND  
SAND, GROUT AS  
NOTED

**NOTE:** PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN OR SECTION, UNLESS NOTED OTHERWISE.

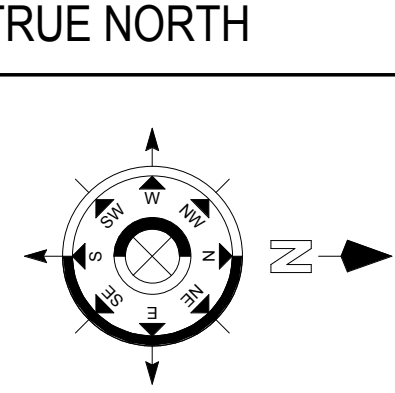
	COLUMN GRID EXISTING		WINDOW TAG
	NORTH ARROW		DOOR TAG
	WALL SECTION CUT REFERENCE DRAWING NUMBER SHEET NUMBER		KEYED NOTE
	BUILDING SECTION CUT REFERENCE DRAWING NUMBER SHEET NUMBER		ELEVATION DATUM REFERENCE
	ELEVATION REFERENCE DRAWING NUMBER SHEET NUMBER		REVISION REFERENCE
	ENLARGED DRAWING REFERENCE		WALL TYPE REFERENCE
	ROOM NAME AND NUMBER		EQUIPMENT TAG

**Department of  
Veterans Affairs**

Revision Schedule	
Comments	Date



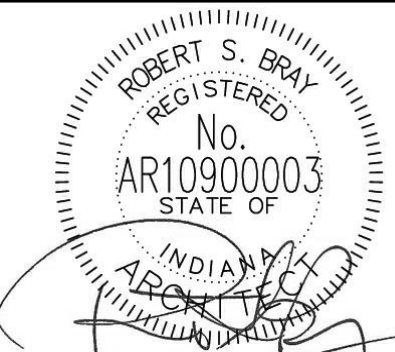
**FireLogix**  
ENGINEERING, LTD.



AMERICAN  
**STRUCTUREPOINT**  
INC.

7260 Shadeland Station | Indianapolis, Indiana 46256  
TEL 317.547.5580 | FAX 317.543.0270  
[www.structurepoint.com](http://www.structurepoint.com)

**Ross & Baruzzini**

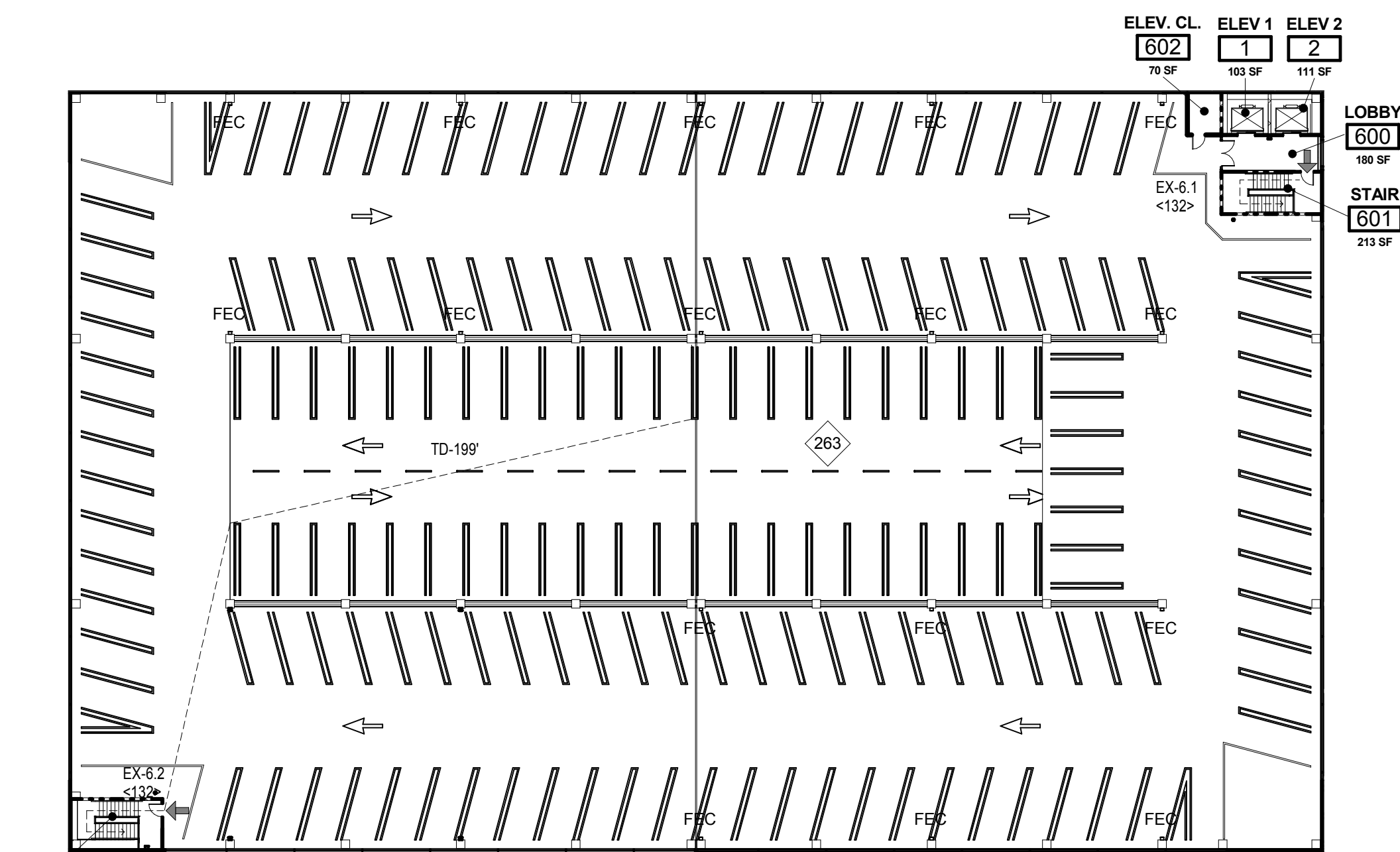


Drawing Title

ARCHITECTURAL SYMBOLS, NOTES  
WALL TYPES AND ABBREVIATIONS

Project Title <b>R.L. Roudebush VA Medical Center Parking Garage</b>			Project Number <b>583-330</b>	
Location <b>INDIANAPOLIS, IN</b>			Drawing Number <b>20</b>	
Date <b>10/14/14</b>	Checked <b>RSB</b>	Drawn <b>VFS</b>		
			<b>G002</b>  <b>Dwg. 2 of 93</b>	



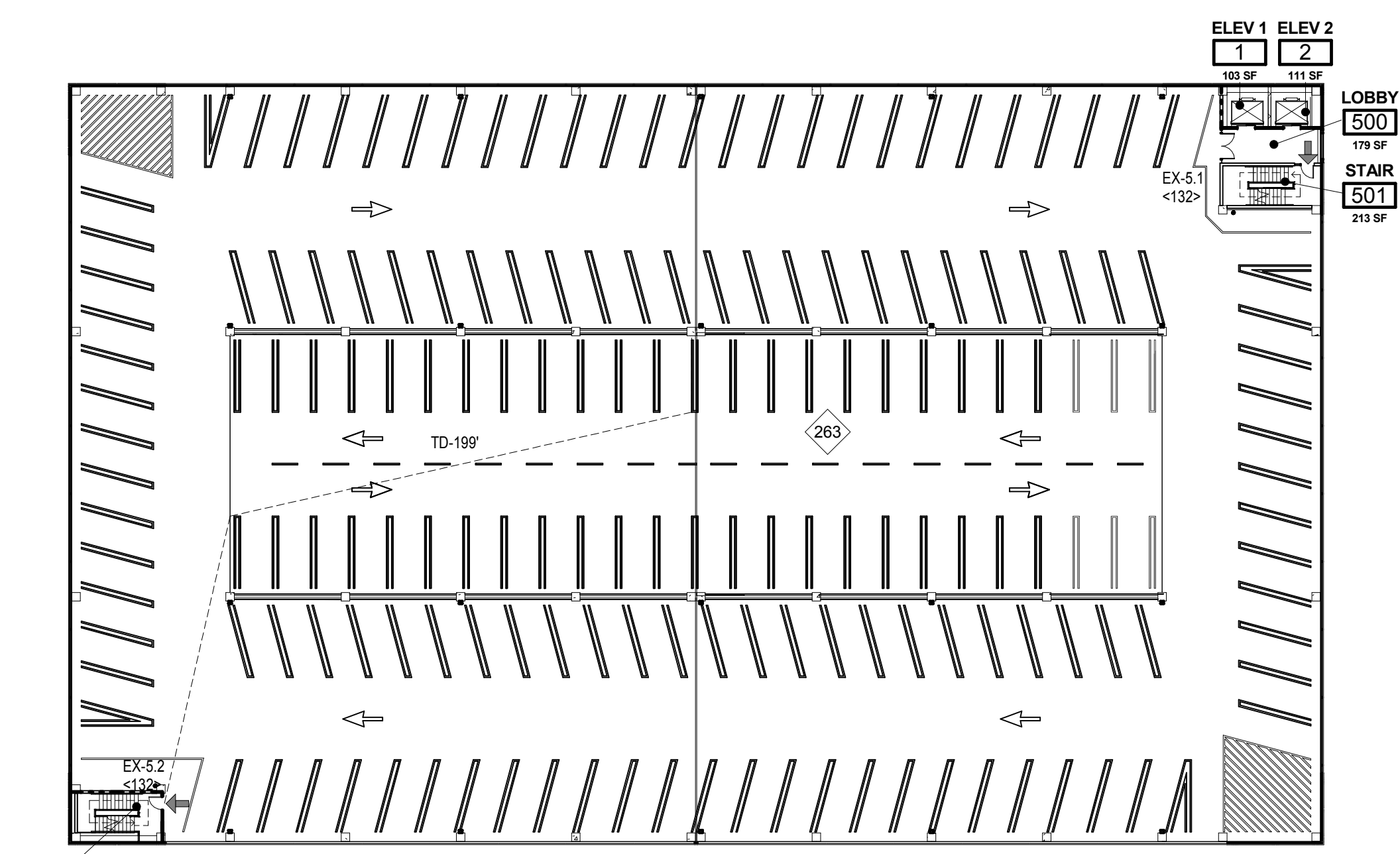


STAIR  
805  
104 SF  
N

10  
LS101

**SIXTH LEVEL LIFE SAFETY**

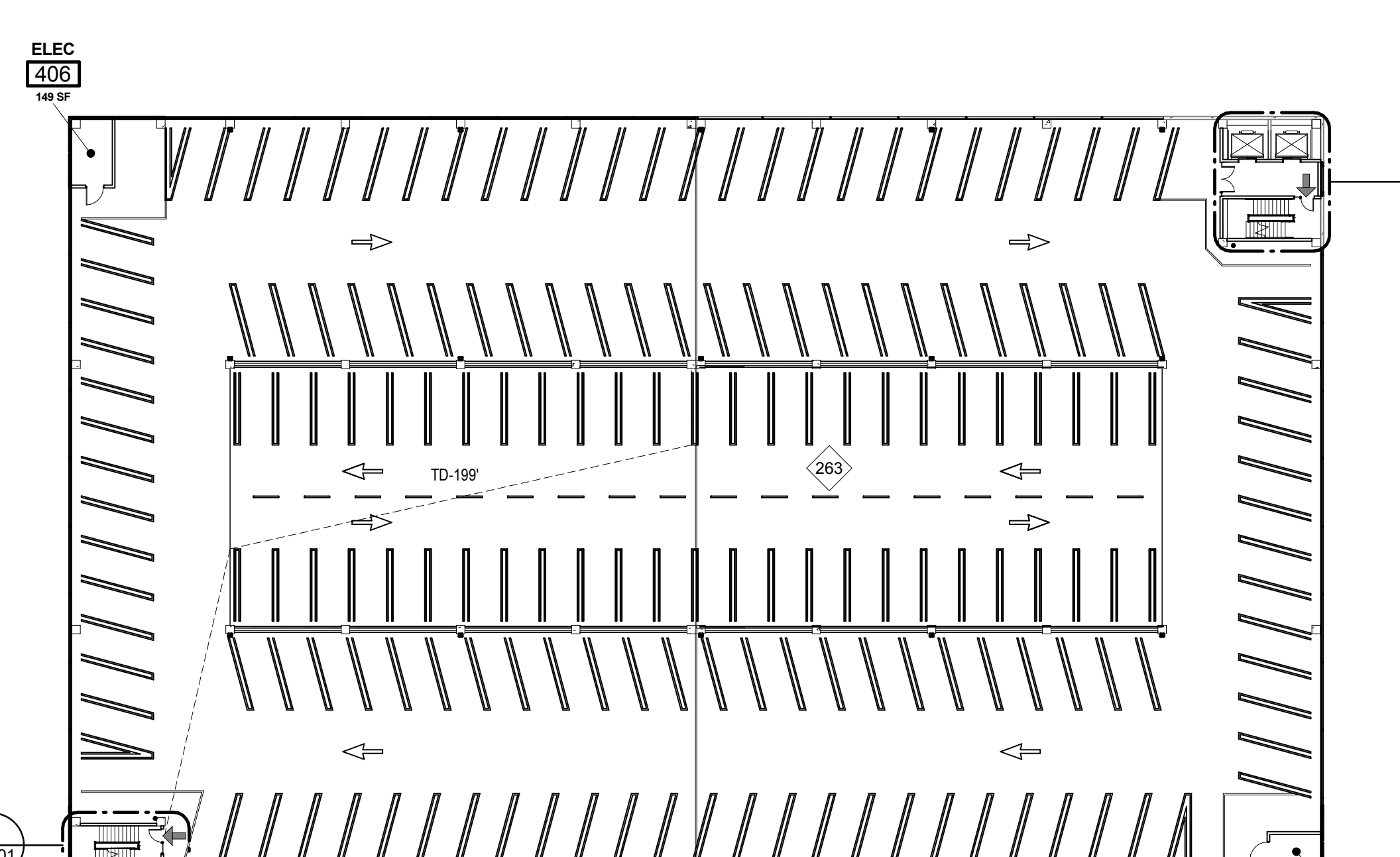
1' = 30'-0"  
REF. DEDUCT ALTERNATE #0



STAIR  
505  
N 184 SE

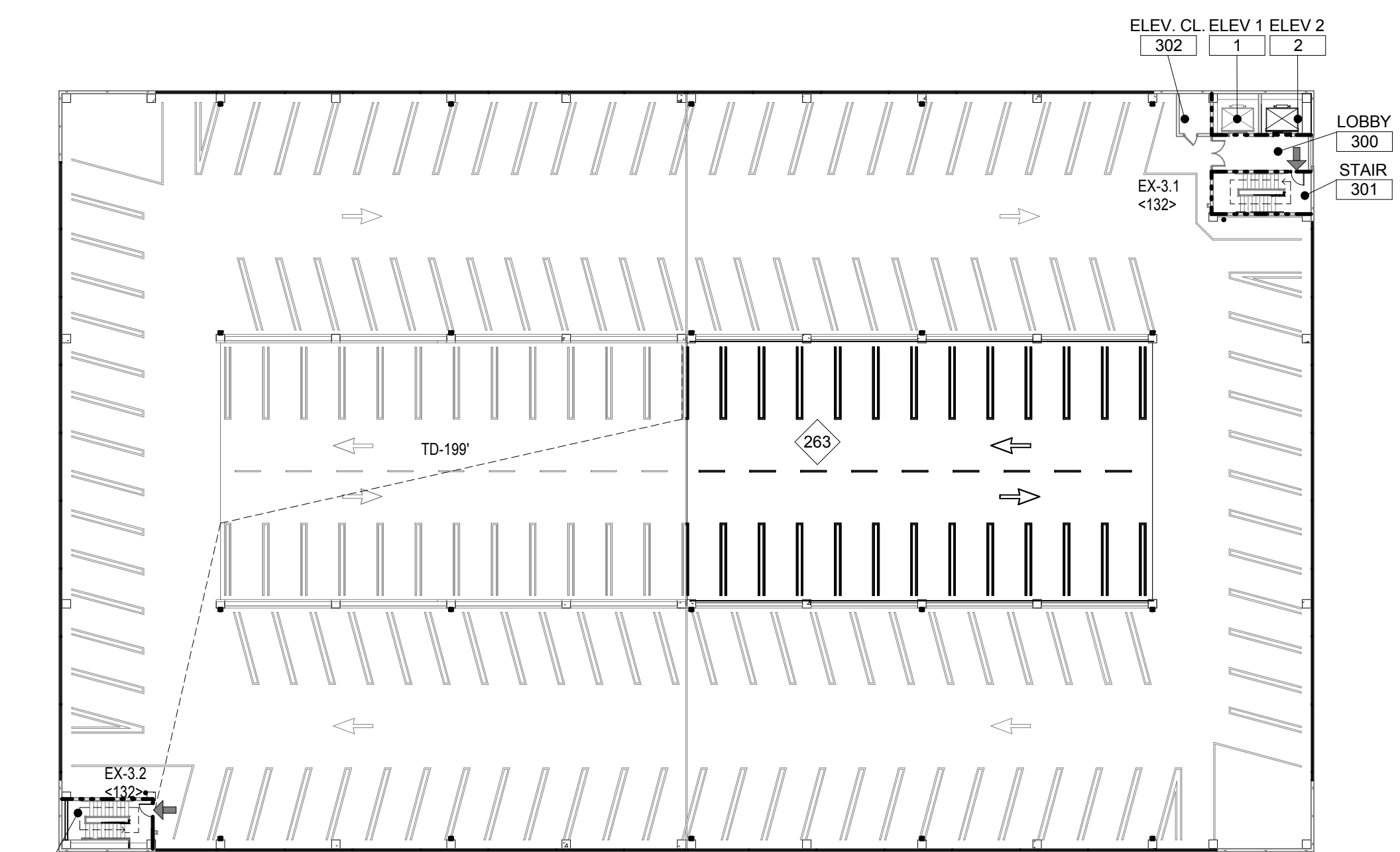
9  
LS101 1" = 30'-0"

FIFTH LEVEL LIFE SAFETY





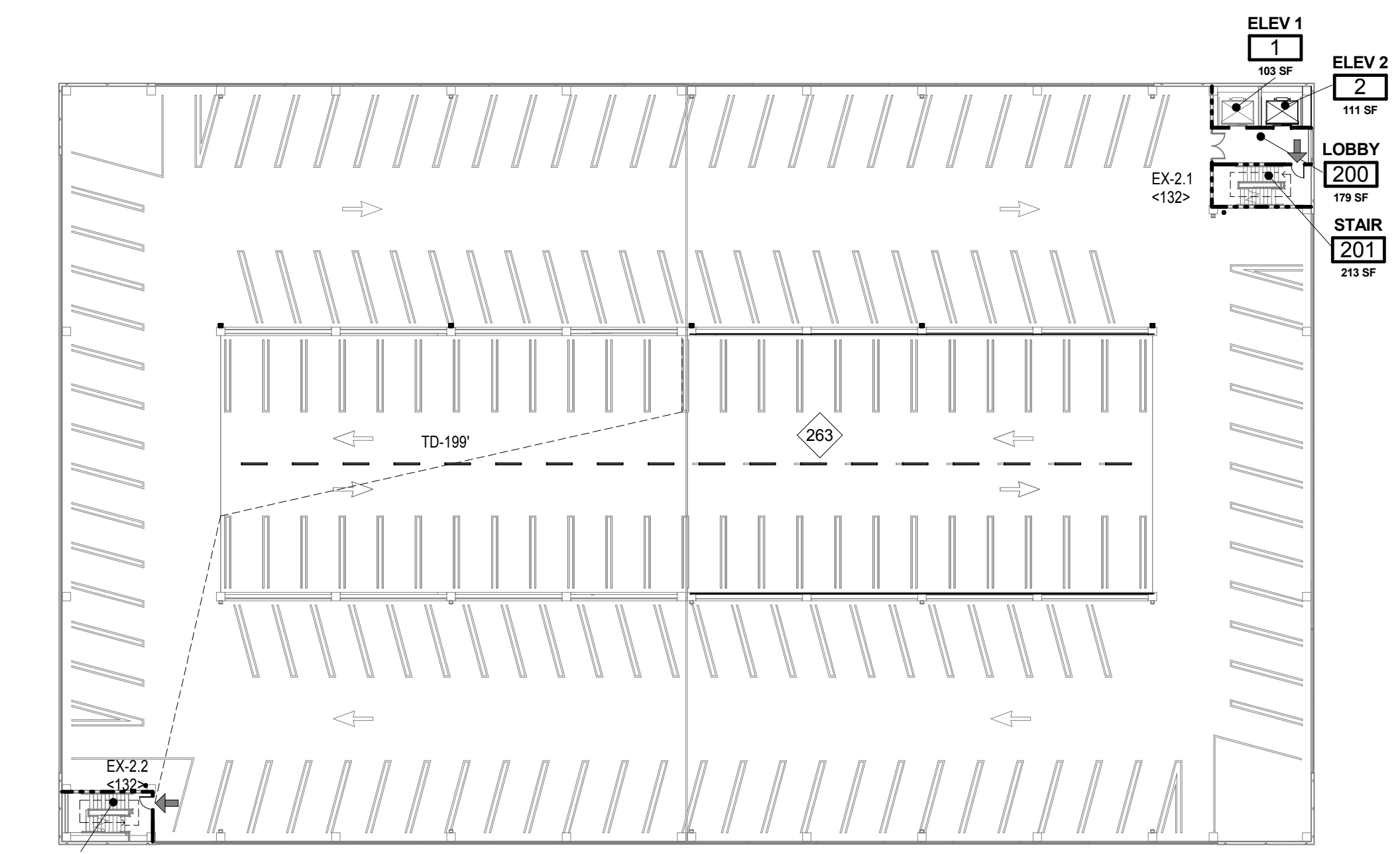
**FOURTH LEVEL LIFE SAFETY**



STAIR  
305  
104.5"  
N

7  
15'-10" 1" = 30'-0"

THIRD FLOOR LIFE SAFETY PLAN

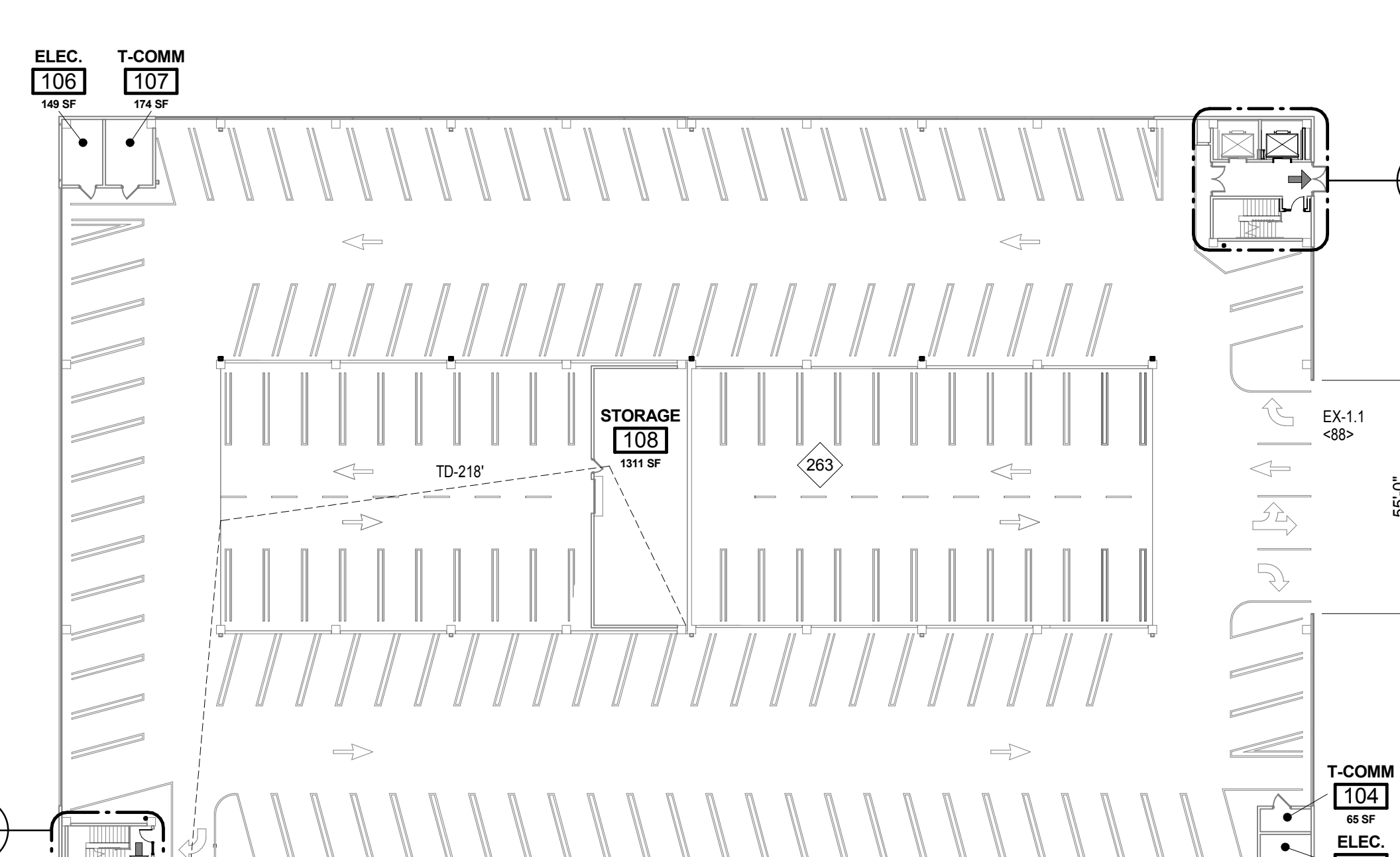


STAIR  
203  
154 SF

N

6  
LS101  
1" = 30'-0"

SECOND FLOOR LIFE SAFETY PLAN



103  
114 SF



13'-0"

N

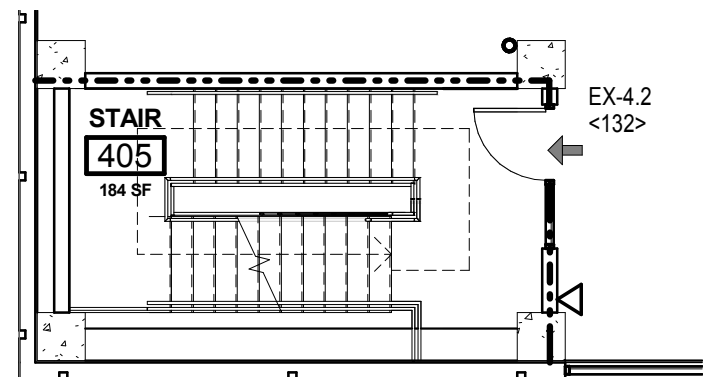
5  
1.8101  
1" = 30'-0"

**FIRST FLOOR LIFE SAFETY PLAN**

### CODE LEGEND

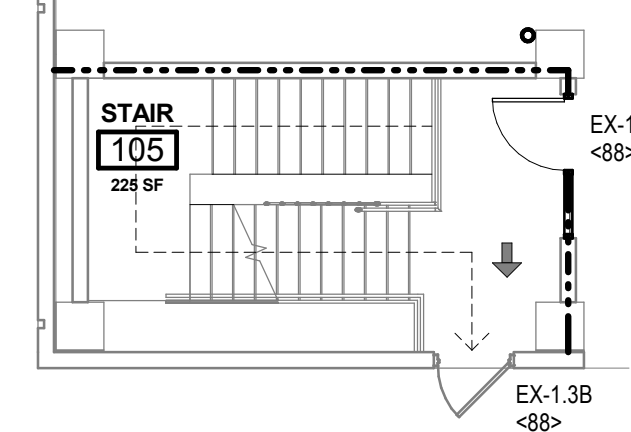
----	2 HR RATED EXIT ENCLOSURE
➡	EXIT
EX-XX	EXIT NUMBER
<XXX>	EXIT COMPONENT CAPACITY
TD-XX	TRAVEL DISTANCE TO EXIT
CP-XX	COMMON PATH OF TRAVEL
	OCCUPANT LOAD, PARKING DECK (205SF/OCC GROSS)
 FEC	SURFACE MOUNTED FIRE EXTINGUISHER CABINET W/ FIRE EXTINGUISHER. VERIFY FEC LOCATIONS AND QUANTITIES W/ OWNER AND FIRE MARSHAL.

LIFE SAFETY / BUILDING CODE SUMMARY			
APPLICABLE BUILDING CODES	1. FIRE AND LIFE SAFETY MUST COMPLY W/ UFC 3-600-01, FIRE PROTECTION ENGINEERING, CHANGE 1 2. INTERNATIONAL BUILDING CODE, 2012 EDITION 2.1 CONSTRUCTION TYPE 2.2 BUILDING SEPARATION REQUIREMENTS 2.3 OCCUPANCY 3. NFPA 101, LIFE SAFETY CODE, 2012 EDITION 3.1 MEANS OF EGRESS 3.2 FIRE RESISTANCE FOR LIFE SAFETY 4. VETERAN'S AFFAIRS, FIRE PROTECTION DESIGN MANUAL, SEPTEMBER 2011 5. NFPA 88A, STANDARD FOR PARKING STRUCTURES, 2011 EDITION		
BUILDING USE	This facility is an open-air garage and will be used for temporary vehicular storage.		
OCCUPANCY CLASSIFICATION	STORAGE (S-2) ORDINARY HAZARD		
CONSTRUCTION TYPE	Type II-B		
FIRE RESISTANCE RATING REQTS FOR BUILDING ELEMENTS	Structural Frame		0 HR
	Bearing Walls		
	Interior		0 HR
	Non Bearing Walls		
	Exterior		0 HR
	Interior		0 HR
	Floor Construction		0 HR
	Roof Construction		0 HR
SPRINKLER SYSTEM	Equipped with a dry Class 1 manual standpipe system in accordance with NFPA 14 and UFC 3-600-01		
ALLOWABLE HEIGHT AND AREA			
TABULAR VALUES:	Unlimited Height Unlimited Area		
ACTUAL HEIGHT AND BUILDING AREA	6 ftar, 74' 10" 53,053 sf		
REQD SEPARATIONS	<ul style="list-style-type: none"> <li>Elevator shaft enclosure - 2 hour fire barrier (2021.1.707.4 Elevator Equipment Room - 2 hour fire barrier (including ceiling) (2006.4)</li> <li>Stair shaft enclosure - 2 hour fire barrier</li> <li>Ductwork chase: A shaft enclosure is not required for penetrations by ducts protected in accordance with Section 712.4</li> <li>712.4.2 Nonfire-resistance-rated assemblies: Penetrations of horizontal assemblies without a required fire-resistance rating shall meet the requirements of Section 707 or shall comply with Section 712.4.2.1 or 712.4.2.2</li> <li>712.4.2.2 Penetrating items: Penetrating items that connect not more than two stories are permitted, provided that the annular space is filled with an approved material to resist the free passage of flame and the products of combustion.</li> </ul>		
TRAVEL DISTANCE RESTRICTIONS (NFPA 101, 2009 ED.)	<ul style="list-style-type: none"> <li>Dead-end Corridor Limit: 50 ft</li> <li>Common Path of Travel: 50 ft</li> <li>Travel Distance to Exits: 300 ft from any point in the room</li> </ul>		
MISCELLANEOUS REQUIREMENTS	<ul style="list-style-type: none"> <li>Two accessible exits required from 2nd floor (1007.1.1, 1015.1)</li> <li>No area of refuge required (1007.3, ex. 4)</li> <li>Required stair width = 44" (NFPA 101-7.2.2.2.1.2)</li> <li>Minimum width of each door = 32" (NFPA 101-7.2.2.2.2.2)</li> </ul>		
ENERGY CODE SUMMARY			
APPLICABLE ENERGY CODE	2012 International Energy Conservation Code		
	Unconditioned / Semi-Heated Space		
CLIMATE ZONE	ZONE 6		
BUILDING ENVELOPE REQTS	MASS WALL: ROOF:	U-VALUE U-0.080	R-VALUE R-114 c.i. R-20 c.i.

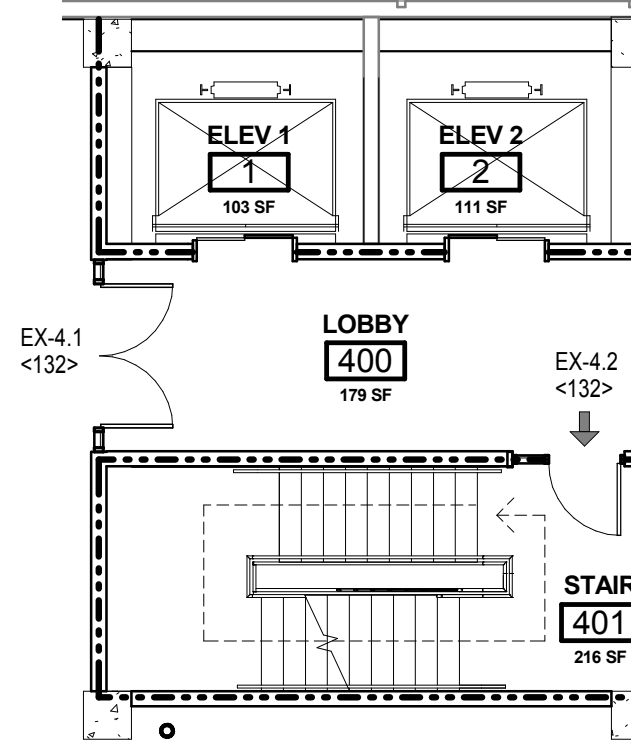




**FOURTH LEVEL SOUTH STAIR LIFE SAFETY**  
 1/8" = 1'-0"  
 TYPICAL AT 2ND LEVEL THROUGH 6TH LEVEL  
 REF. DEDUCT ALT #6

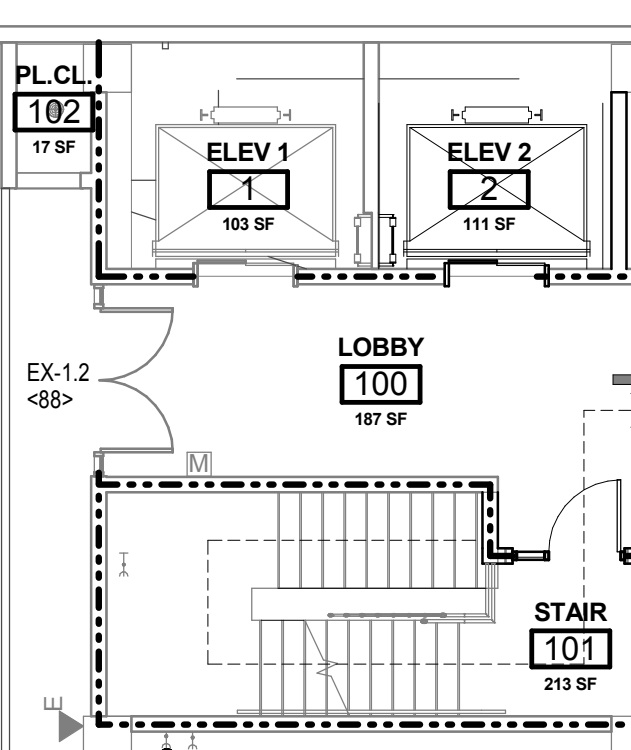


**FIRST LEVEL SOUTH STAIR SAFETY**

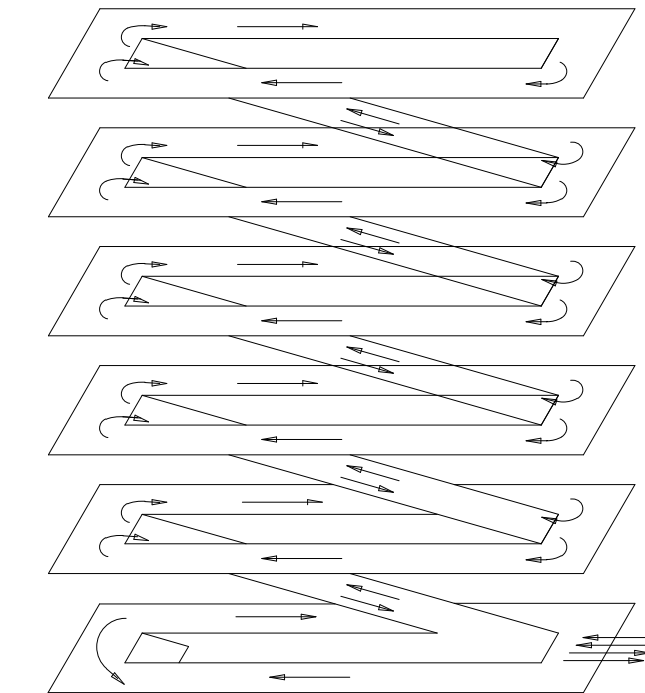




**FOURTH LEVEL ELEV. LIFE SAFETY**  
 1/8" = 1'-0"  
 TYPICAL AT 2ND LEVEL THROUGH 6TH LEVEL  
 REF. DEDUCT ALT #6



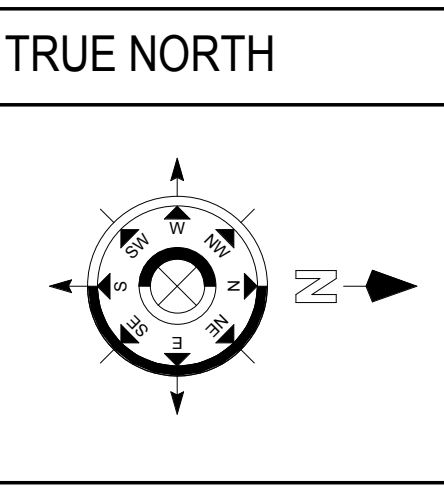
N  
1  
LS101  
FIRST FLOOR ELEV. LIFE SAFETY  
1/8" = 1'-0"



# PARKING ISOMETRIC BID DOCUMENTS

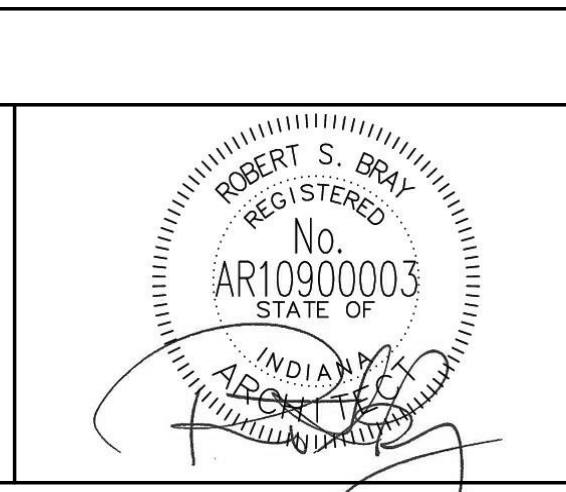
Revision Schedule	
Comments	Date

CONSULTANTS:	
 <b>FireLogix</b> ENGINEERING, LTD.	



# ARCHITECT/ENGINEERS:

**Ross & Baruzzini**



Drawing Title	
LIFE SAFETY PLANS - PARKING GARAGE	

Project Title			
R.L. Roudebush VA Medical Center Parking Garage			
Location			
INDIANAPOLIS, IN			
Date	Checked	Drawn	
10/14/14	RSB	VFS	

Project Number 583-330
Building Number 20
Drawing Number  LS101  Dwg.3 of 93

Office of  
Construction  
and Facilities  
Management

**VA** Department of  
Veterans Affairs



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

13-Oct-16 8:56 AM #windthorst

NOTE:  
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT COR IF VARIATION EXISTS.

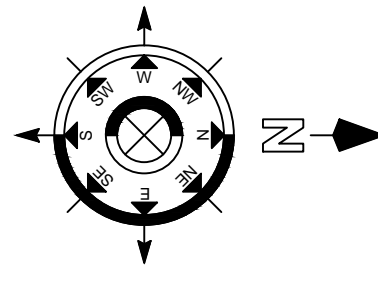
CAUTION !!  
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

Revision Schedule	Comments	Date


CONSULTANTS:

 **FireLogix**  
ENGINEERING, LTD.

TRUE NORTH

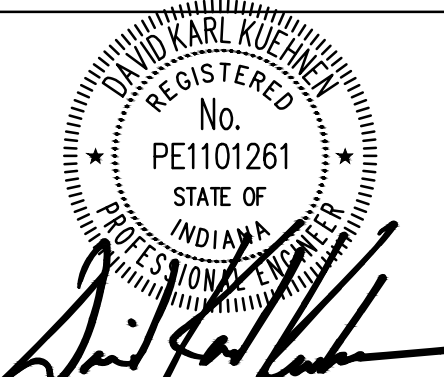


ARCHITECT/ENGINEERS:

 **AMERICAN STRUCTUREPOINT**  
INC.

7260 Shadeland Station | Indianapolis, Indiana 46226  
TEL: 317.547.5500 | FAX: 317.543.0270  
www.structurepoint.com

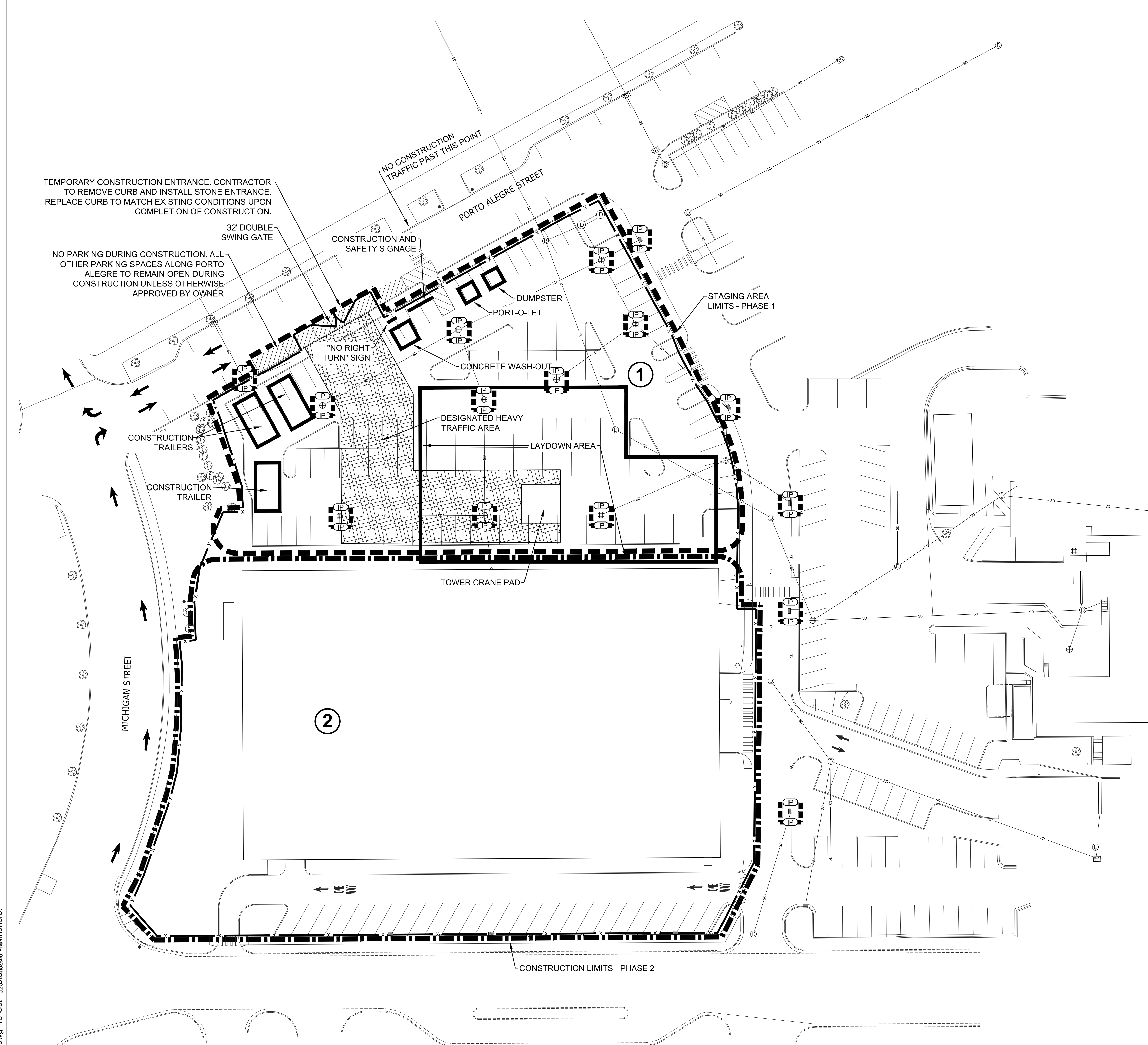
 **Ross & Baruzzini**

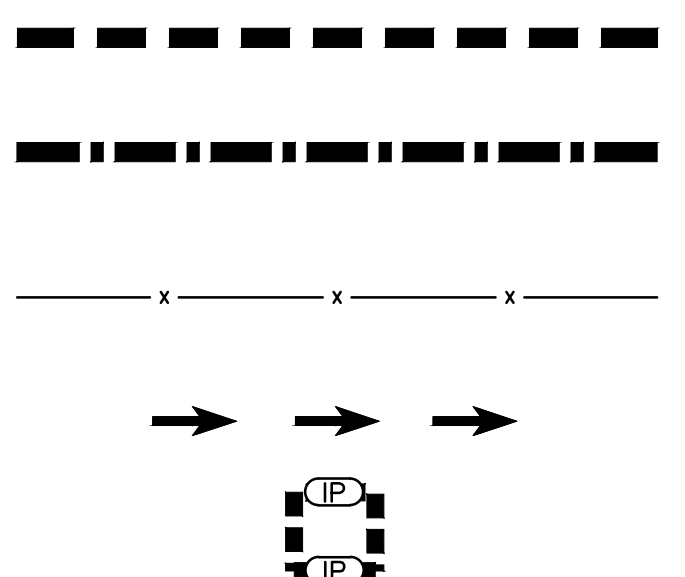


Drawing Title

Construction Staging Plan

Project Title		Project Number		Office of Construction and Facilities Management <b>VA</b> Department of Veterans Affairs
R.L. Roudebush VA Medical Center Parking Garage		583-330		
Location		Building Number		
INDIANAPOLIS, IN		20		
Date	Checked	Drawn	Dwg. Number	
10/14/14	DKK	JLG	CD-101	
				Dwg. 4 of 93





① STAGING AREA

② GARAGE CONSTRUCTION LIMITS

6' MOVABLE CHAIN-LINK CONSTRUCTION FENCE

HAUL ROUTE

INLET PROTECTION

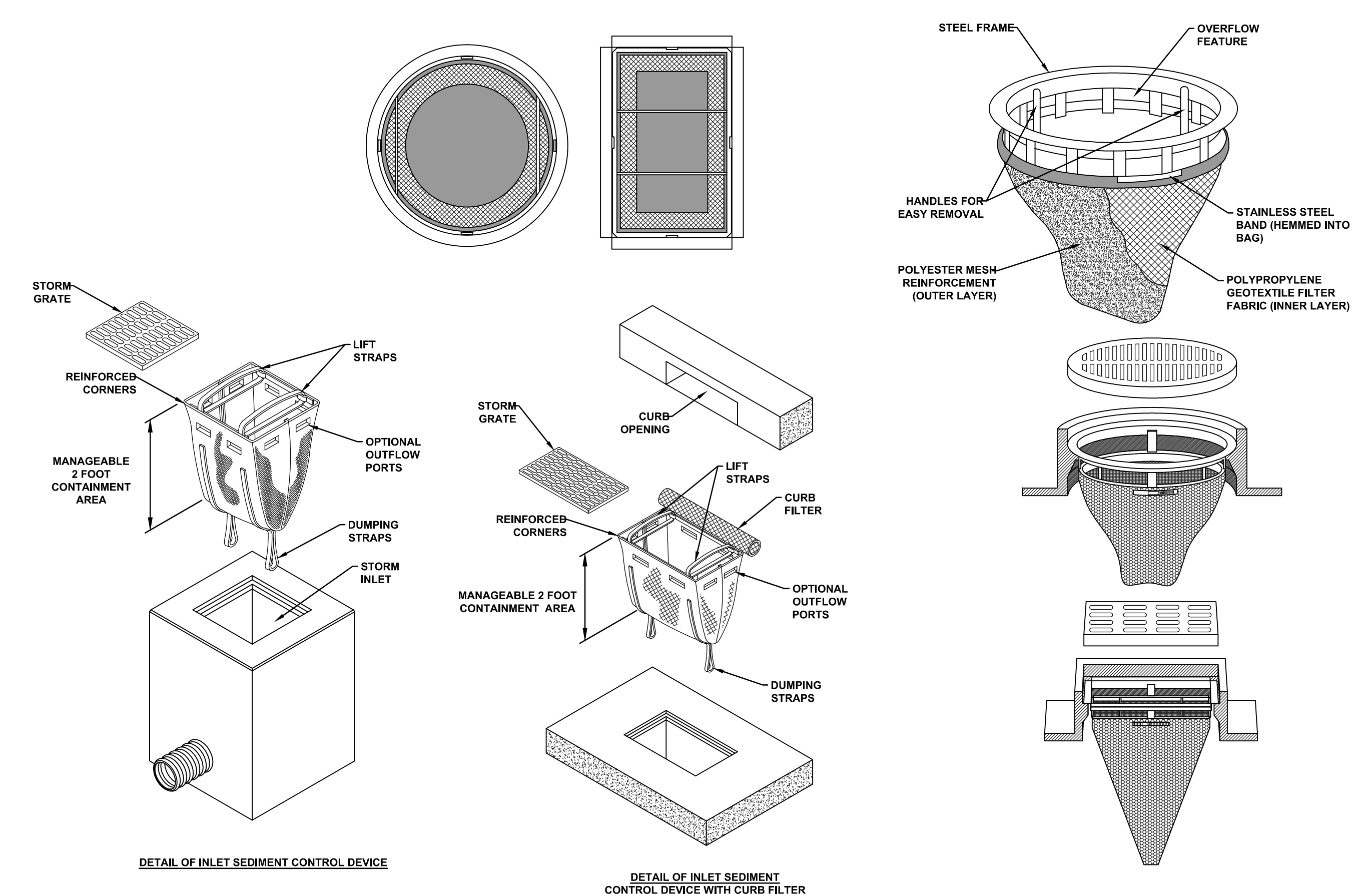
**GENERAL NOTES**

- ALL WORK TO CONFORM TO FEDERAL, STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
- CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS AND OTHER ADJACENT OCCUPIED FACILITIES.
- DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER ADJACENT FACILITIES WITHOUT PERMISSION FROM THE COR OR LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
- ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
- PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
- ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT INDIANA "ONE CALL" (811) FOR MARKING OF UNDERGROUND UTILITY LOCATIONS. NOTIFY COR IF ANY VARIATION EXISTS.
- THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
- THE CONTRACTOR SHALL CLEAN PORTO ALEGRE, CONSTRUCTION LAYDOWN AREA AND ALL PARKING AREAS USED DURING CONSTRUCTION PRIOR TO COMPLETION OF PROJECT.

**NOTE:**  
CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE TO ASPHALT CURB, SIDEWALK, PLANT MATERIAL, UTILITIES, ETC. AS A RESULT OF THE CONSTRUCTION WORK AS DIRECTED BY COR.

**PHASING NOTES**

- CONTRACTOR TO INITIALLY OCCUPY STAGING AREA. GARAGE TO REMAIN OPEN TO PUBLIC DURING THIS PHASE. CONTRACTOR TO INSTALL PERIMETER FENCING AND ALL ELEMENTS NEEDED TO BEGIN CONSTRUCTION (CRANE, TRAILER(S), DUMPSTERS, ETC.) ONCE CONTRACTOR HAS FULLY MOBILIZED, THEY WILL BE ALLOWED TO OCCUPY GARAGE CONSTRUCTION LIMITS.
- GARAGE TO BE CLOSED TO PUBLIC AND CONTRACTOR TO BEGIN GARAGE EXPANSION.



**INSTALLATION**

- REMOVE THE STORM SEWER GRATE AND PLACE THE FRAME INTO THE GRATE OPENING.
- PLACE GEOTEXTILE FABRIC INTO THE FRAME AND SECURE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- REPLACE THE STORM SEWER GRATE.

**MAINTENANCE**

- INSPECT DAILY.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- REPLACE OR CLEAN GEOTEXTILE FABRIC AS NEEDED.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE INLET PROTECTION.

NOTE: CONTRACTOR TO USE FLEXSTORM CATCH-IT INLET PROTECTOR, DANDY BAG OR APPROVED ALTERNATE.

DROP-IN INLET PROTECTION TO BE USED IN PAVED AREAS.

**DROP-IN INLET PROTECTION DETAIL**



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

C:\Revit\Revit Structure 2013\2010\_00022\_ST\_VA\_Indy\_PO\_CENTRAL\_08162014\_RST113.dwg  
10/13/2014 8:14:14 AM

## NON-COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 4000 PSI					
BAR SIZE	Ld	Ldt	Lt	LtL	
#3	15	20	20	26	
#4	19	25	25	33	
#5	24	32	32	41	
#6	29	38	38	50	
#7	42	55	55	71	
#8	48	63	63	82	
#9	54	71	71	92	
#10	60	78	78	102	
#11	66	86	86	112	

f'c = 5000 PSI					
BAR SIZE	Ld	Ldt	Lt	LtL	
#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	

f'c = 6000 PSI					
BAR SIZE	Ld	Ldt	Lt	LtL	
#3	12	16	16	21	
#4	16	21	21	28	
#5	20	26	26	34	
#6	24	32	32	41	
#7	34	45	45	58	
#8	39	51	51	66	
#9	44	58	58	75	
#10	49	64	64	83	
#11	54	71	71	92	

ALL CONCRETE STRENGTHS				
BAR SIZE	Lb	Lc	Ld	LtL
#3	9	12	12	12
#4	11	13	12	15
#5	14	16	15	18
#6	17	19	17	21
#7	20	22	20	25
#8	22	25	23	28
#9	25	29	26	32
#10	28	32	29	36
#11	31	35	31	40

## EPOXY COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 4000 PSI					
BAR SIZE	Ld	Ldt	Lt	LtL	
#3	22	29	29	38	
#4	29	38	38	50	
#5	36	47	47	61	
#6	43	56	56	73	
#7	63	82	82	107	
#8	72	94	94	122	
#9	81	106	106	137	
#10	89	116	116	151	
#11	98	128	128	165	

f'c = 5000 PSI					
BAR SIZE	Ld	Ldt	Lt	LtL	
#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	

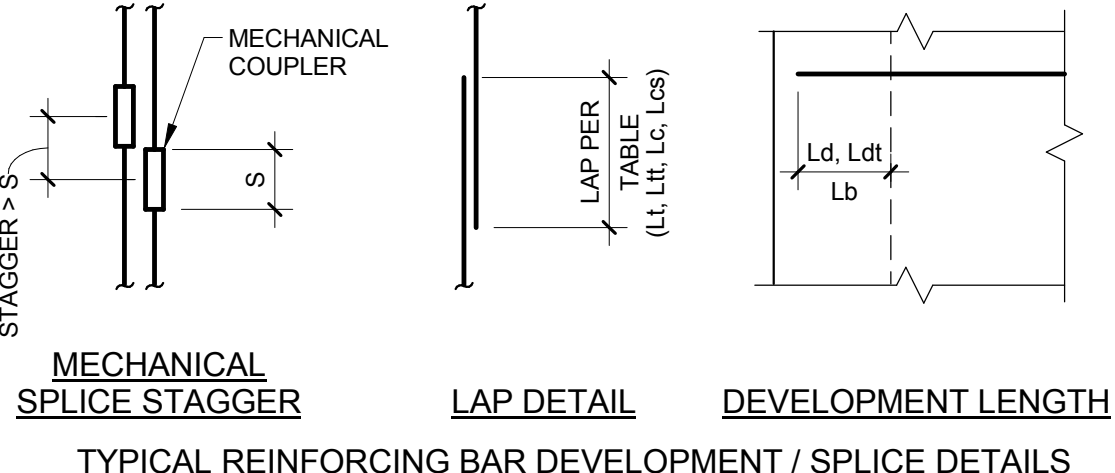
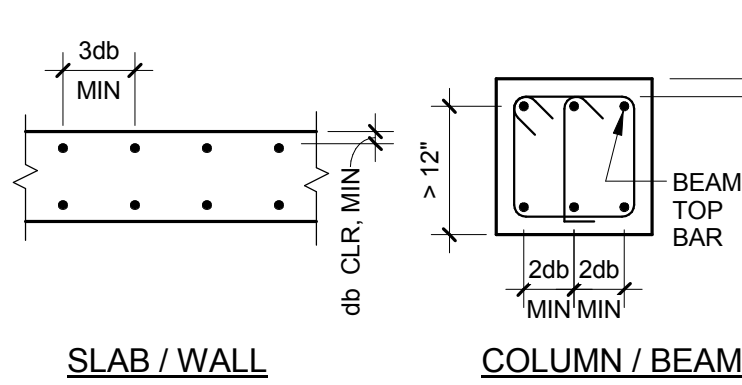
f'c = 6000 PSI					
BAR SIZE	Ld	Ldt	Lt	LtL	
#3	18	24	24	31	
#4	24	32	32	41	
#5	30	39	39	51	
#6	35	46	46	60	
#7	51	67	67	87	
#8	59	77	77	100	
#9	66	86	86	112	
#10	73	95	95	124	
#11	80	104	104	136	

ALL CONCRETE STRENGTHS				
BAR SIZE	Lb	Lc	Ld	LtL
#3	9	12	12	12
#4	11	13	12	15
#5	14	16	15	18
#6	17	19	17	21
#7	20	22	20	25
#8	22	25	23	28
#9	25	29	26	32
#10	28	32	29	36
#11	31	35	31	40

### NOTES:

- db = NOMINAL BAR DIAMETER  
Ld = TENSION DEVELOPMENT LENGTH  
Ldt = DEVELOPMENT LENGTH OF TOP BARS IN TENSION  
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
- 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
- ALL SPlices SHALL BE TENSION SPlices, UNO.

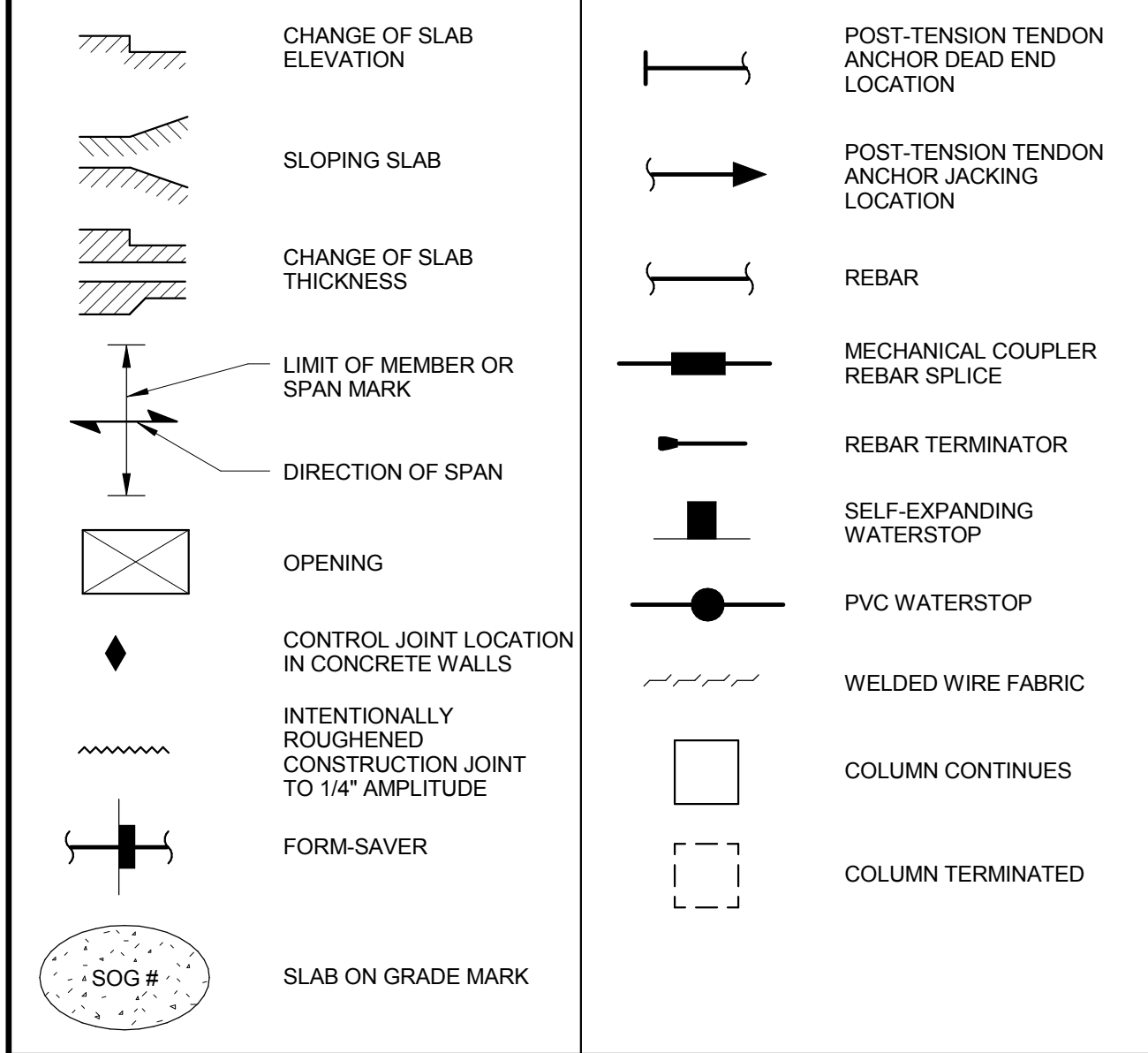
TABLE VALUES SHALL BE MULTIPLIED BY 1.5 IF THE FOLLOWING CRITERIA ARE NOT MET:



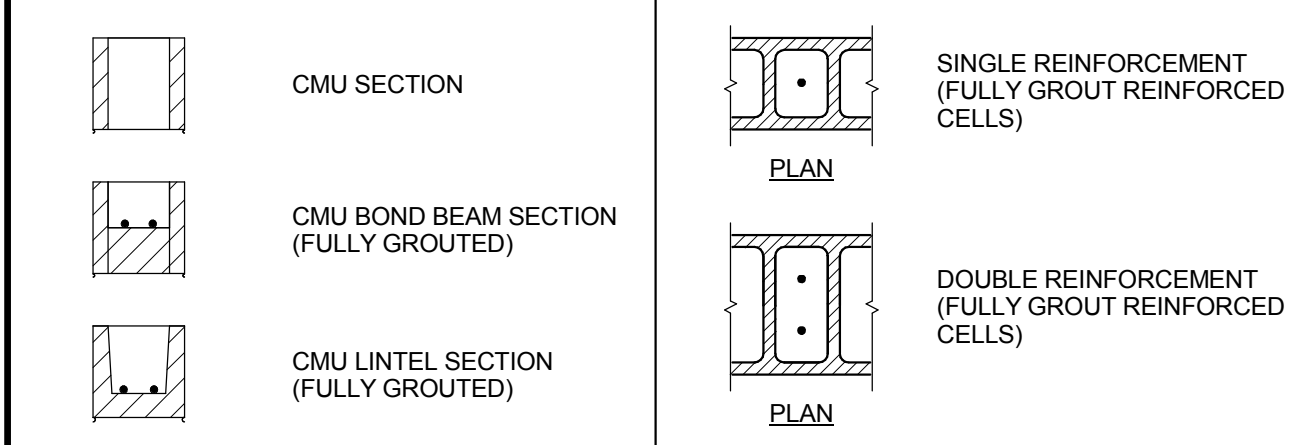
## CONNECTORS

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

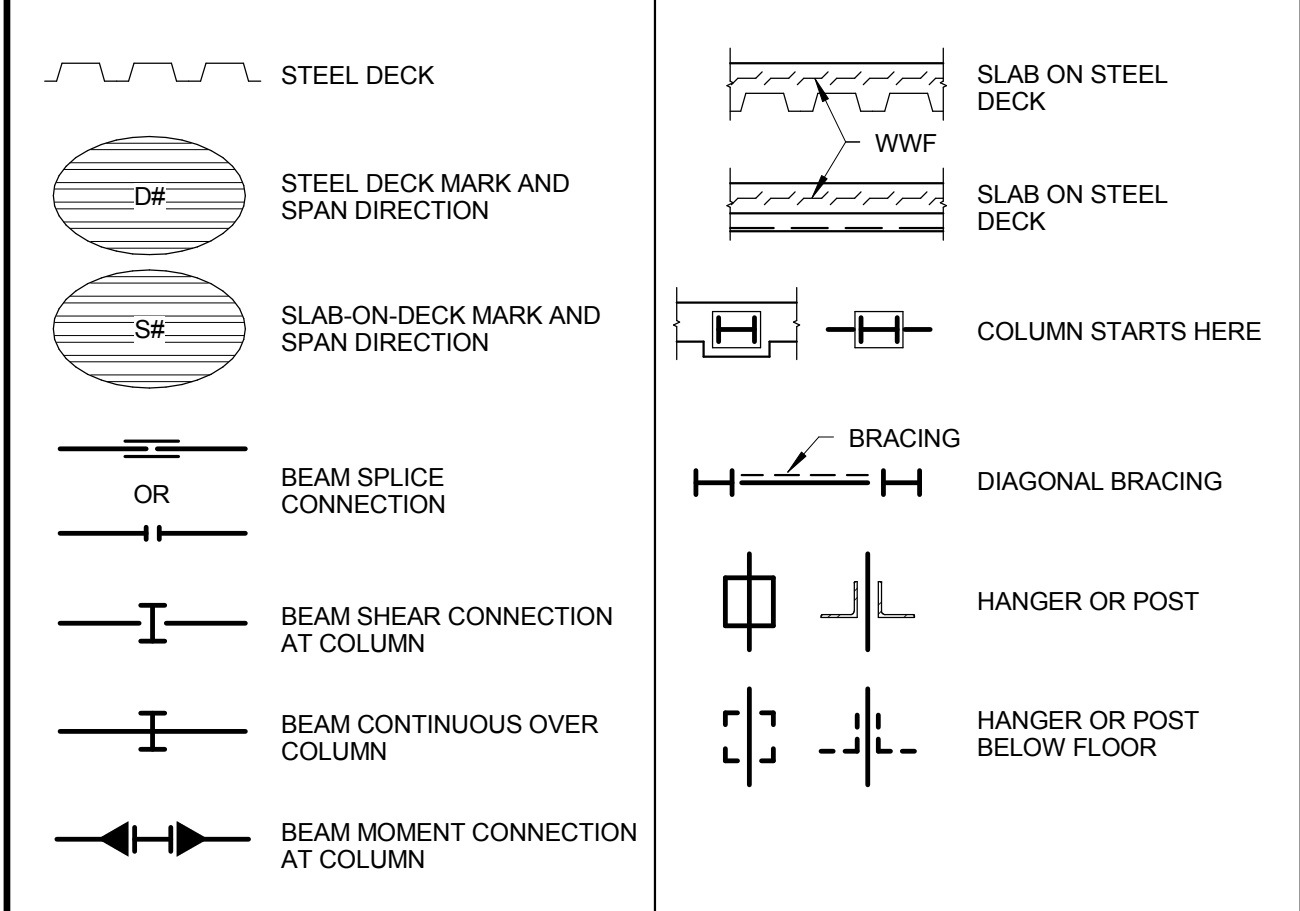
## CONCRETE SYMBOLS



## MASONRY MEMBERS



## STEEL SYMBOLS



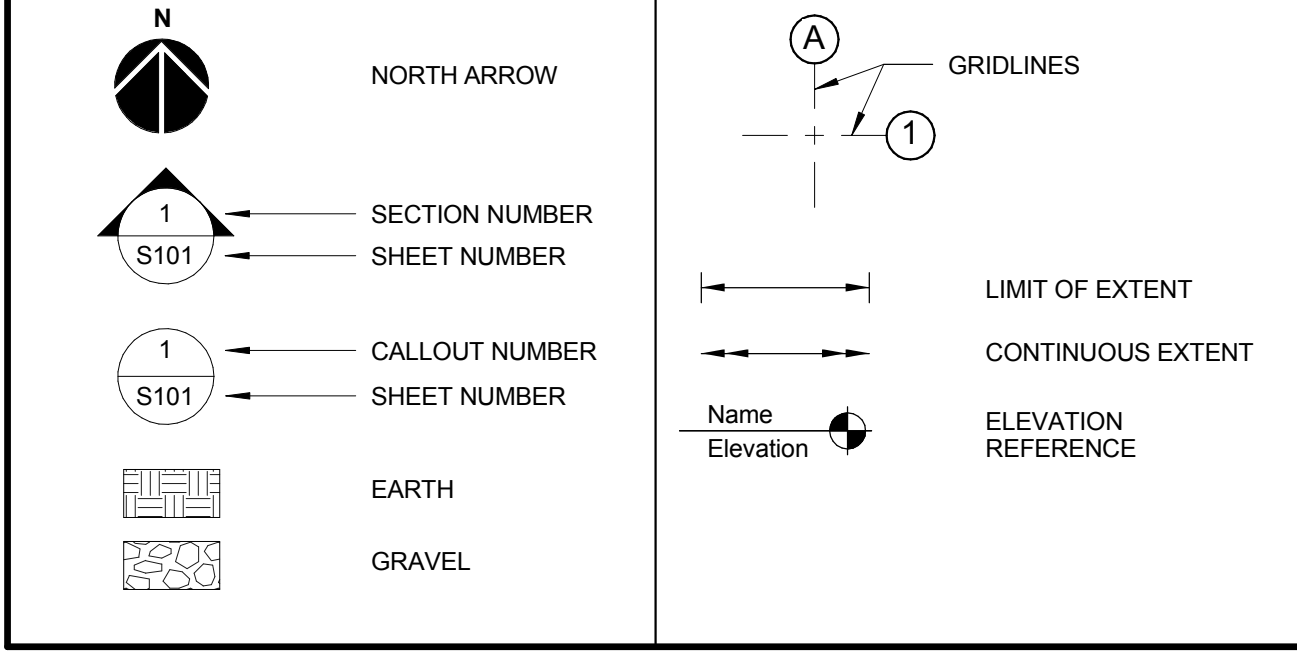
## STEEL MEMBERS

SHAPE	SECTION	ELEVATION	PLAN VIEW
W-SHAPE BEAM			
CHANNEL			
ANGLE			
DOUBLE ANGLE			
HOLLOW STRUCTURAL SECTION - RECTANGULAR			
HOLLOW STRUCTURAL SECTION - CIRCULAR (PIPE)			
OPEN WEB STEEL JOIST			

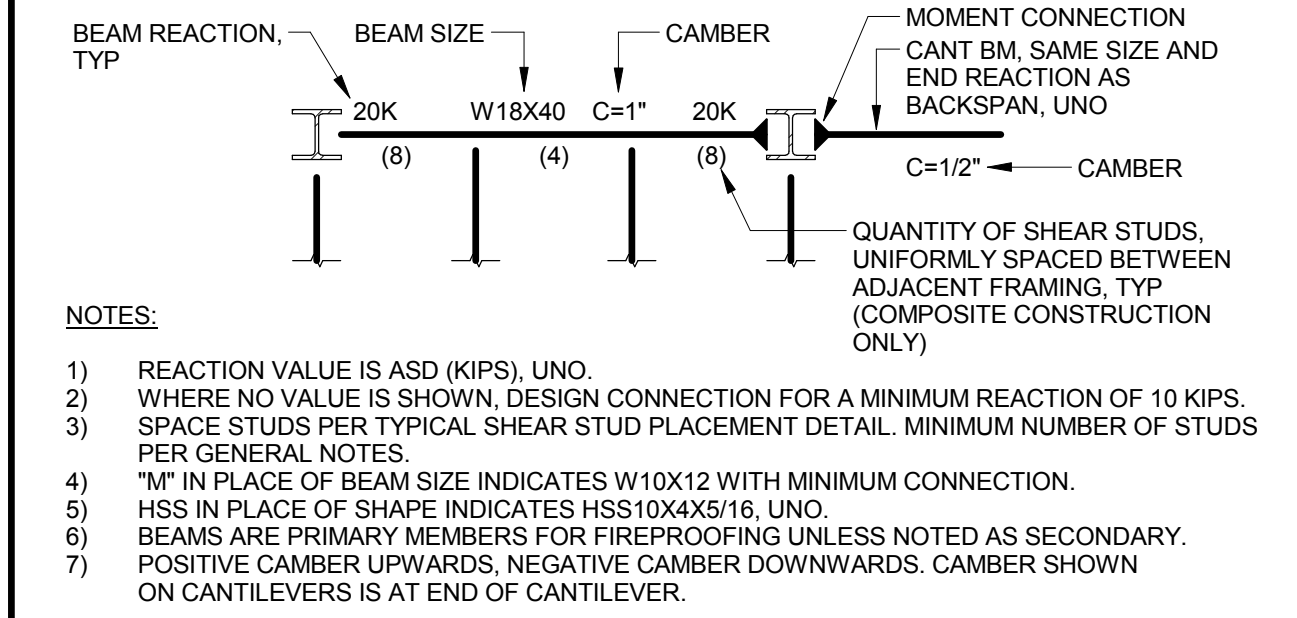
## STRUCTURAL DRAWINGS ABBREVIATIONS

& A/E ACI ADDL ADJ AGGR AISC  ALT ANSI  APA APPROX ARCH ASTM  AWS B/ BAL BD BLDG BLCK BLKG BM BOT BRG BRKT BTWN BU C CANT CC CF CG CIP CJP CL CLR CMU COL CONC CONN CONST CONT CONTR CTR CTRD CU FT CU IN CYD DBA DBL DEG DEMO DEPT DET DIA DIAPH DIM DN DO DP DWG DWL EA EF EJ EL ELEV ELEC ENCL ENGR EOD EOJ EOS EQ EQPT ES EW EX EXP FD FDN FIN FLG FLR FS FT FTG FTGD FV GA GALV GB GL GRND GT HAS HORIZ HP HSS HT HVAC ID IF IN INCL INFO INSUL INT JBRG	AND ARCHITECT/ENGINEER AMERICAN CONCRETE INSTITUTE ADDITIONAL ADJACENT AGGREGATE AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN PLYWOOD ASSOCIATION APPROXIMATE ANCHOR ROD ARCHITECTURAL AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY BOTTOM OF BALANCE BOARD BUILDING BLOCK BLOCKING BEAM BOTTOM BEARING BRACKET BETWEEN BUILT UP STANDARD CHANNEL CAST IN PLACE CENTER TO CENTER COLD FORMED CENTER OF GRAVITY CIP CONTROL JOINT OR CONSTRUCTION JOINT COMPLETE JOINT PENETRATION CENTERLINE CLEARANCE, CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR CENTER OVERSIZED HOLE OWJ PRE-MANUFACTURED OPEN WEB JOIST PC PERIM PERM PERP PJP PL PLYWD PREFAB PRELIM PREP PROJ PS PSF PSI PSL PT R RD REF REINFC REQD RO RTU S SCHED SECT SF SHT SIM SOG SPA SPECS SQ SS SLT STD STIFF STL STRUC SYM T & B T TAGB TBS TEMP THRU TJ TRANS TYP UL UNO UT VERT W WO WD WH WP WT WWF XS XXS	JOIST JOINT K/B KIP, K KO KSI L LAB LB L LINEAL LLH LLV LONGIT LP LSL LTWT LV LAMINATED STRAND LUMBER LIGHT WEIGHT LAMINATED VENEER LUMBER MAS MATL MAX MB MC MECH MEMB MEP MFR MINV MISC MO MULT N/A NO NOM NS NTS O/C OD OF OFD OH OPNG OPP OPPHD ORIG OVS OWJ PC PERIM PERM PERP PJP PL PLYWD PREFAB PRELIM PREP PROJ PS PSF PSI PSL PT R RD REF REINFC REQD RO RTU S SCHED SECT SF SHT SIM SOG SPA SPECS SQ SS SLT STD STIFF STL STRUC SYM T & B T TAGB TBS TEMP THRU TJ TRANS TYP UL UNO UT VERT W WO WD WH WP WT WWF XS XXS
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## MISCELLANEOUS SYMBOLS



## BEAM LEGEND



## STRUCTURAL INDEX

SHEET #	SHEET NAME
S1001	ABBREVIATIONS AND SYMBOLS
S1002	GENERAL NOTES
S1003	GENERAL NOTES AND SPECIAL INSPECTION TABLES
S1004	LOAD MAPS
S1010	EXISTING FOUNDATION PLAN
SF101	EXISTING SLAB ON GRADE PLAN
SF102	EXISTING / NEW LEVEL 2 FRAMING PLAN
SF103	EXISTING / NEW LEVEL 3 FRAMING PLAN
SF103A	NEW LEVEL 3 PT / REINFORCING PLAN
SF104	NEW LEVEL 4 FRAMING PLAN
SF104A	NEW LEVEL 4 PT / REINFORCING PLAN
SF105	NEW LEVEL 5 FRAMING PLAN
SF105A	NEW LEVEL 5 PT / REINFORCING PLAN
SF106	NEW LEVEL 6 FRAMING PLAN
SF106A	NEW LEVEL 6 PT / REINFORCING PLAN
SF301	BUILDING SECTIONS
SF302	BUILDING SECTIONS
SF401	ENLARGED PLANS
SF511	TYPICAL COLUMN AND WALL DETAILS AND SCHEDULES
SF512	TYPICAL COLUMN DETAILS
SF521	TYPICAL POST-TENSIONED SLAB DETAILS
SF531	TYPICAL PT AND MILD BEAM DETAILS
SF532	POST-TENSIONED CONCRETE BEAM SCHEDULE
SF533	MILD REINFORCED BEAM SCHEDULE
SF541	CONCRETE FRAMING SECTIONS
SF542	CONCRETE FRAMING SECTIONS
SF551	TYPICAL STEEL AND CMU DETAILS AND SCHEDULES
SF552	FRAMING SECTIONS AND DETAILS
SF601	AXONOMETRICS

## DEDUCT ALTERNATES

NOT ALL DEDUCT SYMBOLS WILL BE USED ON EACH SHEET
1. REDUCE QUANTITY OF FIRE RATED GLAZING IN DOOR STAIRS PER DRAWINGS.
2. REDUCE INTENSITY / OUTPUT OF LIGHTING AT GARAGE ENTRY PER DRAWINGS.
3. REMOVE SECURITY CAMERAS AND ASSOCIATED WIRING FROM THE PROJECT SCOPE.
4. REMOVE NEW ARCHITECTURAL GRILLES FROM 4TH AND 5TH LEVELS FROM PROJECT SCOPE.
5. REMOVE SECOND ELEVATOR IN EXPANDED PARKING GARAGE FROM PROJECT SCOPE.
6. REMOVE 6TH FLOOR OF PARKING GARAGE EXPANSION FROM PROJECT SCOPE.

## BID DOCUMENTS

Revision Schedule Comments	Date	CONSULTANTS: 	TRUE NORTH 	ARCHITECT/ENGINEERS:  7200 Shadeland Station   Indianapolis, Indiana 46256 TEL 317.547.5580   FAX 317.543.0270 www.structurepoint.com	 10/14/2014 	Drawing Title ABBREVIATIONS AND SYMBOLS	Project Title R.L. Roudebush VA Medical Center Parking Garage	Project Number 583-330 Building Number 20	Office of Construction and Facilities Management  VA Department of Veterans Affairs
							Location INDIANAPOLIS, IN	Drawing Number S1001 Dwg. 5 of 93	
							Date 10/14/14	Checked JAP	Drawn BGC







three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
C:\Revit\Revit Structure 2013\2010\_00022\_ST\_VA Indy PO\_CENTRAL\_08182014\_RST113\_bourts.rvt  
10/13/2014 8:14:21 AM  
VA FORM 08-6231

SPECIAL INSPECTION SERVICES SCHEDULE - STEEL CONSTRUCTION				
REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
FABRICATOR QUALITY CONTROL PROCESS	INSPECTION	VERIFY THE FABRICATOR MEETS ALSO CERTIFIED FABRICATOR REQUIREMENT LISTED IN THE PROJECT SPECIFICATIONS.	Y	ONE-TIME
QUALITY	INSPECTION	VISUALLY INSPECT STEEL AS IT IS RECEIVED FOR POSSIBLE DAMAGE IN SHIPPING, WORKMANSHIP, AND PIECE MARKING.	Y	PERIODIC
MILL TEST REPORTS	INSPECTION	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH-STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.	Y	PERIODIC
WELDED CONNECTIONS	INSPECTION	INSPECT FIELD WELDED CONNECTIONS AS FOLLOWS:		
		INSPECT <100%> OF COMPLETE JOINT PENETRATION FIELD WELDS. ULTRASONIC TESTING OF ALL COMPLETE PENETRATIONS WELDS.	Y	CONTINUOUS
		INSPECT <100%> OF PARTIAL JOINT PENETRATION FIELD WELDS.	Y	CONTINUOUS
		INSPECT <100%> OF MULTIPASS FILLET FIELD WELDS.	Y	CONTINUOUS
		INSPECT <100%> OF FILLET FIELD WELDS IN LATERAL-LOAD-RESISTING BRACED FRAMES AND MOMENT FRAMES.	N	CONTINUOUS
		INSPECT <10%> OF OTHER FILLET FIELD WELDS.	Y	PERIODIC
		PERFORM PRE-WELDING INSPECTIONS TO VERIFY THAT MATERIALS (I.E. STRUCTURAL STEEL, WELD FILLER MATERIAL, ETC.), WELDING PROCEDURES, AND WELDING PERSONNEL QUALIFICATIONS ARE APPROPRIATE.	Y	PERIODIC
		VISUALLY INSPECT FIELD WELDS ACCORDING TO AWS D1.1/D1.1M.	Y	PERIODIC
		VERIFY WELDING PROCEDURES ARE IN ACCORDANCE WITH AWS REQUIREMENTS.	Y	PERIODIC
		INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES.	Y	PERIODIC
		VERIFY SIZE AND LENGTH OF FILLET WELDS.	Y	PERIODIC
		VERIFY THAT WELDS ARE CLEAN; WELDER IDENTIFICATION IS LEGIBLE; SIZE, LENGTH AND LOCATION OF WELDS; VERIFY THAT WELDS MEET ACCEPTANCE CRITERIA; PLACEMENT OF REINFORCEMENT FILETS; REMOVAL OF BACKING BARS AND WELD TABS AS REQUIRED; AND REPAIR ACTIVITIES.	Y	PERIODIC
BOLTED CONNECTIONS	INSPECTION	INSPECT BOLTED CONNECTIONS AS FOLLOWS:		
		INSPECT <100%> OF ALL PRE-TENSIONED AND SLIP-CRITICAL BOLTED CONNECTIONS.	N	CONTINUOUS
		INSPECT <100%> OF BOLTED CONNECTIONS IN LATERAL-LOAD-RESISTING BRACED FRAMES AND MOMENT FRAMES.	N	PERIODIC
		INSPECT <20%> OF ALL OTHER BOLTED CONNECTIONS.	Y	
		FOR SLIP-CRITICAL BOLTED CONNECTIONS, VERIFY INSTALLATION IS PERFORMED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:		
		TURNOF-NUT, ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."	N	
		CALIBRATED WRENCH, ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."	N	CONTINUOUS
		TWIST-OFF TENSION CONTROL BOLT, ASTM F 1852.	N	
		DIRECT-TENSION CONTROL BOLT, ASTM F 1852.	N	
		FOR ALL BOLTED CONNECTIONS, VERIFY QUANTITY, SIZE AND GRADE OF BOLTS, REQUIRED SURFACE PREPARATION AND PROPER FIT-UP OF CONNECTED ELEMENTS.	Y	PERIODIC
MEMBERS SIZES AND GRADE	INSPECTION	VERIFY THAT STEEL MEMBER SIZES AND STEEL GRADE CONFORM TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
		INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATION AND CONNECTION DETAILS AS FOLLOWS:		
		CHECK THE INSTALLATION OF BASE PLATES FOR PROPER LEVELING AND VERIFY PROPER GROUT TYPE AND INSTALLATION PROCEDURES ARE FOLLOWED.	N	PERIODIC
		INSPECT <100%> OF BEAM AND GIRDER CONSTRUCTION AND ASSEMBLIES.	Y	PERIODIC
STEEL FRAMING, DETAILS AND CONNECTORS	INSPECTION	INSPECT <100%> OF ALL BRACED FRAME AND MOMENT FRAME ASSEMBLIES.	N	CONTINUOUS
		INSPECT <100%> OF THE COLUMN SPLICES AND BASE JOINTS FOR VERIFICATION THAT GAPS IN CONTACT BEARING DO NOT EXCEED 1/16 INCH. GAPS GREATER THAN 1/16 INCH SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR ASSESSMENT.	N	CONTINUOUS
		INSPECT COMPOSITE STEEL BEAM SHEAR CONNECTORS AS FOLLOWS:		
		OBSERVE THE WELDINGS OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH.	N	CONTINUOUS
COMPOSITE BEAM SHEAR CONNECTORS	TEST	INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS.	N	CONTINUOUS
		RING TEST <100%> OF SHEAR CONNECTORS WITH A 3 LB HAMMER.	N	PERIODIC
		BEND TEST ALL QUESTIONABLE STUDS TO 15 DEGREES.	N	CONTINUOUS
		INSPECT STEEL GRATING AS FOLLOWS:		
GRATING	INSPECTION	VISUALLY INSPECT THE GRATING FOR DAMAGE DURING SHIPPING.	N	PERIODIC
		VERIFY THAT THE GRATING DEPTH, TYPE OR PROPERTIES, AND FINISH COMPLY WITH THE CONTRACT DOCUMENTS AND/OR APPROVED SHOP DRAWINGS.	N	PERIODIC
		VERIFY ALL GRATING ATTACHMENT TO THE SUPPORTING CONCRETE, STEEL, AND/OR MASONRY AS SPECIFIED IN THE CONTRACT DOCUMENTS AND/OR APPROVED SHOP DRAWINGS.	N	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - STEEL ROOF DECK				
REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
QUALITY	INSPECTION	VISUALLY INSPECT THE DECK PRIOR TO INSTALLATION FOR DAMAGE.	Y	PERIODIC
DECK MATERIAL	INSPECTION	VERIFY THAT THE DECK DEPTH, GAUGE, TYPE, PROPERTIES, AND FINISH COMPLY WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
DECK ATTACHMENT	INSPECTION	VERIFY THAT THE DECK ATTACHMENT TO THE SUPPORTING STEEL IS AS SPECIFIED IN THE CONTRACT DOCUMENTS.	Y	PERIODIC
DECK SUPPORT	INSPECTION	VERIFY THAT THE PROPER DECK SUPPORT IS USED AROUND OPENINGS.	Y	PERIODIC
DECK ACCESSORIES	INSPECTION	VERIFY THAT DECK ACCESSORIES ARE BEING INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC

SPECIAL INSPECTION SERVICES SCHEDULE - CONCRETE CONSTRUCTION				
REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
MATERIAL TESTING	TEST	REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR EXTENT OF TESTING REQUIRED.		
QUALITY CONTROL	INSPECTION	VERIFY THAT QUALITY CONTROL TESTING IS PROVIDED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.	Y	PERIODIC
REINFORCING STEEL	INSPECTION	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS (WHEN USED) AND PLACEMENT AS FOLLOWS:		
		VERIFY THAT REINFORCEMENT SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY. IF OILING OF FORMS IS REQUIRED, VERIFY THAT IT IS APPLIED BEFORE REINFORCING IS PLACED.	Y	PERIODIC
		VERIFY REINFORCING BARS FOR COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AS FOLLOWS:		
		MATERIAL GRADE, SIZE, QUANTITY, SPACING, AND LAYERING. BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS. PROPER HOOK TYPE AND LOCATION, SPLICE LOCATIONS AND REQUIRED LENGTH OF LAP. PROPER CLEARANCE AND COVER REQUIREMENTS FROM CONCRETE SURFACES. SUFFICIENT SPACING BETWEEN REINFORCEMENT FOR CONCRETE PLACEMENT; VERIFY THAT UNSCHEDULED/ADDITIONAL REINFORCING BARS SHOWN ON PLAN, IN DETAIL, OR SPECIFIED IN NOTES ARE PROVIDED AND ARE IN COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
		MECHANICAL SPLICES:		
		(TENSION AND/OR COMPRESSION) ON THE PROJECT, VERIFY COMPLIANCE WITH SPECIFICATIONS AND CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. VERIFY THAT THE MANUFACTURER IS PRESENT FOR THE FIRST INSTALLATION OF EACH TYPE OF SPLICE ON THE PROJECT.	Y	CONTINUOUS
		VERIFY THAT WELDED WIRE REINFORCEMENT IS COMPOSED OF FLAT SHEETS, HAS PROPER WIRE GAUGE AND SPACING, IS PROPERLY SUPPORTED, AND IS PROPERLY LAPPED.	N	PERIODIC
		INSPECT HEADED STUD SHEAR REINFORCEMENT TO ENSURE THAT IT CONFORMS TO THE PROJECT REQUIREMENTS.		
		REVIEW TYPE AND SPACING; VERIFY THAT REINFORCING IS ADEQUATELY SUPPORTED TO RESIST DISPLACEMENT OR SHIFTING DURING CONCRETE PLACEMENT; VERIFY WELDING OF REINFORCEMENT IS PERFORMED ACCORDING TO AWS REQUIREMENTS AND THAT IT IS INSPECTED BY THE TESTING LABORATORY.	Y	PERIODIC
		INSPECT BOLTS AND ANCHOR RODS TO BE CAST IN CONCRETE PRIOR TO PLACEMENT OF CONCRETE FOR SIZE, QUANTITY, LOCATION, POSITION AND EMBEDMENT. INSPECT DURING PLACEMENT FOR PROPER CONCRETE CONSOLIDATION AROUND BOLTS AND ANCHORS.	Y	
CAST-IN-PLACE BOLTS AND ANCHOR RODS	INSPECTION	ALLOWABLE LOADS HAVE BEEN INCREASED PER PLAN NOTES	Y	CONTINUOUS
		BOLTS AND/OR ANCHOR RODS USED IN LATERAL FORCE RESISTING SYSTEM AT THE FOLLOWING LOCATIONS: <LIST GRID LOCATIONS>	N	CONTINUOUS
CONCRETE MIX DESIGN	INSPECTION	<20%> OF BOLTS AND/OR ANCHOR RODS USED ELSEWHERE.	Y	PERIODIC
		REVIEW AND BECOME FAMILIAR WITH THE MIX DESIGNS SPECIFIED ON THE PROJECT. VERIFY MIX DESIGN PROVIDED BY THE CONTRACTOR IS CONSISTENT WITH PROJECT SPECIFICATIONS AT LOCATION INDICATED. REVIEW CONCRETE BATCH TICKETS TO PROPER MIX ID, TYPE OF CONCRETE AND STRENGTH FOR THE PLACEMENT LOCATION. VERIFY THAT WATER ADDED AT SITE (IF PERMITTED), DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.	Y	PERIODIC
INSPECTION OF FORMED AREA	INSPECTION	VERIFY THAT ALL DEBRIS AND FOREIGN MATTER HAVE BEEN REMOVED BEFORE CONCRETE IS PLACED.	Y	PERIODIC
FORMWORK	INSPECTION	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. VERIFY FORMWORK USED IN COMPLIANCE WITH THE SPECIFICATIONS AND APPROVED SHOP DRAWINGS (WHEN REQUIRED).	Y	PERIODIC
MATERIAL SAMPLING AND TESTING	TEST	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	CONTINUOUS
CONCRETE PLACEMENT	INSPECTION	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES AS FOLLOWS:		
		VERIFY THE CONCRETE IS NOT OVER 90 MINUTES OLD AT TIME OF PLACEMENT; HOT-WEATHER OR COLD-WEATHER TECHNIQUES ARE BEING APPLIED AS REQUIRED; CONCRETE BEING DEPOSITED IN UNIFORM, THAT THE VERTICAL DROP DOES NOT EXCEED SIX FEET, AND THAT CONCRETE IS NOT PERMITTED TO DROP FREELY OVER REINFORCEMENT CAUSING SEGREGATION; CONCRETE IS PROPERLY VIBRATED; EMBEDDED ITEMS AND REINFORCING STEEL ARE NOT ADVERSELY ALTERED DURING PLACEMENT. NOTE IF ANYTHING WAS DISPLACED OR OTHERWISE ALTERED DURING PLACEMENT; VERIFY THAT THERE ARE NO COLD JOINTS WITHIN THE AREA OF THE POUR.	Y	CONTINUOUS
		VERIFY THE CURING PROCESS IS AS SPECIFIED IN THE CONTRACT DOCUMENTS AND THAT ANY CURING COMPOUND USED IS APPLIED IN ACCORDANCE WITH MANUFACTURER'S PRINTED APPLICATION INSTRUCTIONS.	Y	PERIODIC
		VERIFY THAT LOCATION OF VERTICAL AND HORIZONTAL CONSTRUCTION JOINTS FOR COMPLIANCE WITH THE CONSTRUCTION JOINT LOCATION PLAN SUBMITTED BY THE CONTRACTOR TO ENGINEER OF RECORD. VERIFY THAT REINFORCEMENT, DOWELS, KEYS, AND BULKHEADS AT CONSTRUCTION JOINTS ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
CURING AND PROTECTION	INSPECTION			
CONSTRUCTION JOINTS	INSPECTION			

SPECIAL INSPECTION SERVICES SCHEDULE - MASONRY CONSTRUCTION (LEVEL 1 INSPECTION)				
REFERENCED STANDARDS PER IBC, CHAPTER 17				
VERIFICATION AND INSPECTION TASK	TEST / INSPECTION	DESCRIPTION OF TEST / INSPECTION	APPLICABLE TO PROJECT (Y/N)	FREQUENCY
MATERIAL TESTING	TEST	REFERENCE MASONRY SPECIFICATION FOR EXTENT OF TESTING. REQUIRED.		
QUALITY CONTROL	INSPECTION	VERIFY THAT QUALITY CONTROL TESTING IS PROVIDED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.	Y	PERIODIC
MATERIALS	INSPECTION	VERIFY THE MATERIALS ARE STORED PROPERLY BEFORE PLACEMENT IN THE STRUCTURE.	Y	PERIODIC
WALL LOCATIONS	INSPECTION	VERIFY THE WALL LOCATIONS AND THICKNESSES.	Y	PERIODIC
CONTROL JOINTS	INSPECTION	VERIFY THE PROPER INSTALLATION OF CONTROL JOINTS, TYPE AND LOCATION.	Y	PERIODIC
OPENINGS	INSPECTION	VERIFY THE PROPER INSTALLATION OF STRUCTURAL ELEMENTS AROUND OPENINGS INCLUDING LINTELS, SILLS, AND DOOR OR WINDOW JAMBS INCLUDING MASONRY UNIT TYPE AND REINFORCEMENT.	Y	PERIODIC
CONNECTIONS	INSPECTION	VERIFY THE MASONRY IS PROPERLY CONNECTED TO THE SUPPORTING STRUCTURE(S).	Y	PERIODIC
REINFORCING STEEL	INSPECTION	INSPECTION OF REINFORCING STEEL AND PLACEMENT AS FOLLOWS:		
		VERIFY THAT REINFORCEMENT SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY.	Y	PERIODIC
		VERIFY REINFORCING BARS AND HORIZONTAL JOINT REINFORCEMENT FOR COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AS FOLLOWS:		
		MATERIAL GRADE, SIZE, QUANTITY, SPACING, AND LAYERING. BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS AND CENTERED AS REQUIRED. PROPER HOOK TYPE AND LOCATION, SPLICE LOCATIONS AND REQUIRED LENGTH OF LAP. PROPER CLEARANCE AND COVER REQUIREMENTS FROM MASONRY SURFACES. SUFFICIENT SPACING BETWEEN REINFORCEMENT FOR GROUT PLACEMENT. VERIFY THAT UNSCHEDULED/ADDITIONAL REINFORCING BARS SHOWN ON PLAN, IN DETAILS, OR SPECIFIED IN NOTES ARE PROVIDED AND ARE IN COMPLIANCE WITH CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.	Y	PERIODIC
EMBEDDED ITEMS	INSPECTION	INSPECT EMBEDDED ITEMS TO BE CAST IN MASONRY PRIOR TO PLACEMENT OF GROUT FOR SIZE, QUANTITY, LOCATION, POSITION AND EMBEDMENT. INSPECT DURING PLACEMENT FOR PROPER GROUT CONSOLIDATION EMBEDDED ITEMS.	Y	PERIODIC
		INSPECT THE MORTAR AND GROUT USED ON THE PROJECT AS FOLLOWS:		
		VERIFY THAT MORTAR AND GROUT MATERIALS COMPLY WITH THE CONTRACT DOCUMENTS AND APPROVED SUBMITTALS.	Y	PERIODIC
		SITE-MIXED MORTAR: VERIFY THE MORTAR IS MIXED IN ACCORDANCE WITH SPECIFIED PROPORTIONS.	Y	PERIODIC
		BAG-MIX MORTAR: VERIFY THE MORTAR IS MIXED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.	Y	PERIODIC
		VERIFY PROPER MORTAR PLACEMENT.	Y	PERIODIC
		GROUT BAG MIX: VERIFY THAT THE GROUT IS MIXED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.	Y	PERIODIC
		READY-MIX GROUT: VERIFY THE MIX NUMBER AND GROUT STRENGTH.	Y	PERIODIC
		PRIOR TO ANY GROUTING PROCEDURE, INSPECT THE GROUT SPACE TO VERIFY THAT IT IS CLEAN AND THAT CLEANOUTS, IF REQUIRED, ARE IN PLACE AND CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.	Y	PERIODIC
		VERIFY THE PROPER GROUT PLACEMENT AND CONSOLIDATION.	Y	CONTINUOUS
MORTAR AND GROUT	INSPECTION	VERIFY THAT GROUT TESTING IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	Y	PERIODIC
PROTECTION	INSPECTION	VERIFY THE PROPER CONSTRUCTION TECHNIQUES ARE FOLLOWED FOR PROTECTION OF MASONRY DURING HOT-WEATHER AND/OR COLD-WEATHER CONSTRUCTION.	Y	PERIODIC

**SPECIAL INSPECTION**

SPECIAL INSPECTION IS A MANDATORY REQUIREMENT BY SECTION 1704.1 OF THE REFERENCED BUILDING CODE FOR VERIFYING CONFORMANCE OF THE INDICATED CONSTRUCTION. SPECIAL INSPECTION IS REQUIRED IN ADDITION TO ALL MATERIAL TESTS AND INSPECTIONS IDENTIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.

THE GENERAL CONTRACTOR SHALL ALLOY INDEPENDENT AGENCY(IES) OR INDIVIDUAL(S) TO PROVIDE SPECIAL INSPECTION FOR ITEMS AS INDICATED ON THE DRAWINGS. SPECIAL INSPECTIONS SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CONTRACTOR.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON, WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER, FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

"PERIODIC" SPECIAL INSPECTION IS DEFINED AS "THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK." THE PERIODIC PERCENTAGES LISTED IN THE TABLES ARE A MINIMUM REQUIREMENT.

"CONTINUOUS" SPECIAL INSPECTION IS DEFINED AS "THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED."

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK REQUIRING SPECIAL INSPECTION FOR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.

THE SPECIAL INSPECTOR SHALL SUBMIT PERIODIC PROGRESS REPORTS TO THE OWNER AND STRUCTURAL ENGINEER IDENTIFYING ALL SPECIAL INSPECTION PERATIONS PERFORMED. REPORTS SHALL BE SUBMITTED NO MORE THAN 7 DAYS FOLLOWING EACH SPECIAL INSPECTION OPERATION. REPORTS SHALL IDENTIFY THE ITEM(S) INSPECTED AND AN INDICATION OF WHETHER THE INSPECTED ITEMS WERE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

AT THE COMPLETION OF ALL WORK REQUIRING SPECIAL INSPECTION, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE OWNER AND STRUCTURAL ENGINEER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

FAILURE TO CORRECT NON-CONFORMING WORK SHALL CONSTITUTE A BASIS FOR REJECTION OF THE WORK AND REMOVAL AND REPERACEMENT BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, INCLUDING:

- THE COST OF REMOVAL AND REPLACEMENT OF ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED DUE TO LACK OF COMMUNICATION BY THE CONTRACTOR, INCLUDING THE COST OF TESTING AND SPECIAL INSPECTION FOR THE REPLACEMENT WORK.
- THE COST OF ALL RELATED WORK MADE NECESSARY BY THE REMOVAL AND REPLACEMENT OF THE UNSPECTED WORK PER ITEM 1 ABOVE.
- THE COST FOR DESIGN PROFESSIONAL'S SERVICES RELATED TO ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED AND SERVICES RELATED TO THE REPLACEMENT WORK.

CONFLICTING REQUIREMENTS, REPORTS, AND TEST RESULTS:

- GENERAL: IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR A DECISION BEFORE PROCEEDING.
- THE INSPECTOR'S REPORTS AND TESTING AGENCIES RESULTS SHALL HAVE PRECEDENCE OVER REPORTS AND TEST RESULTS PROVIDED BY THE CONTRACTOR.
- WHERE A CONFLICT EXISTS BETWEEN THE CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS / SUBMITTAL DATA, THE CONSTRUCTION DOCUMENTS SHALL GOVERN UNLESS THE SHOP DRAWINGS / SUBMITTAL DATA ARE MORE RESTRICTIVE. ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- WHERE A CONFLICT EXISTS BETWEEN INDIVIDUAL SPECIFICATION SECTIONS AND THIS SPECIFICATION, PROVIDE TESTING AND INSPECTION TO SATISFY THE MORE STRINGENT REQUIREMENTS.

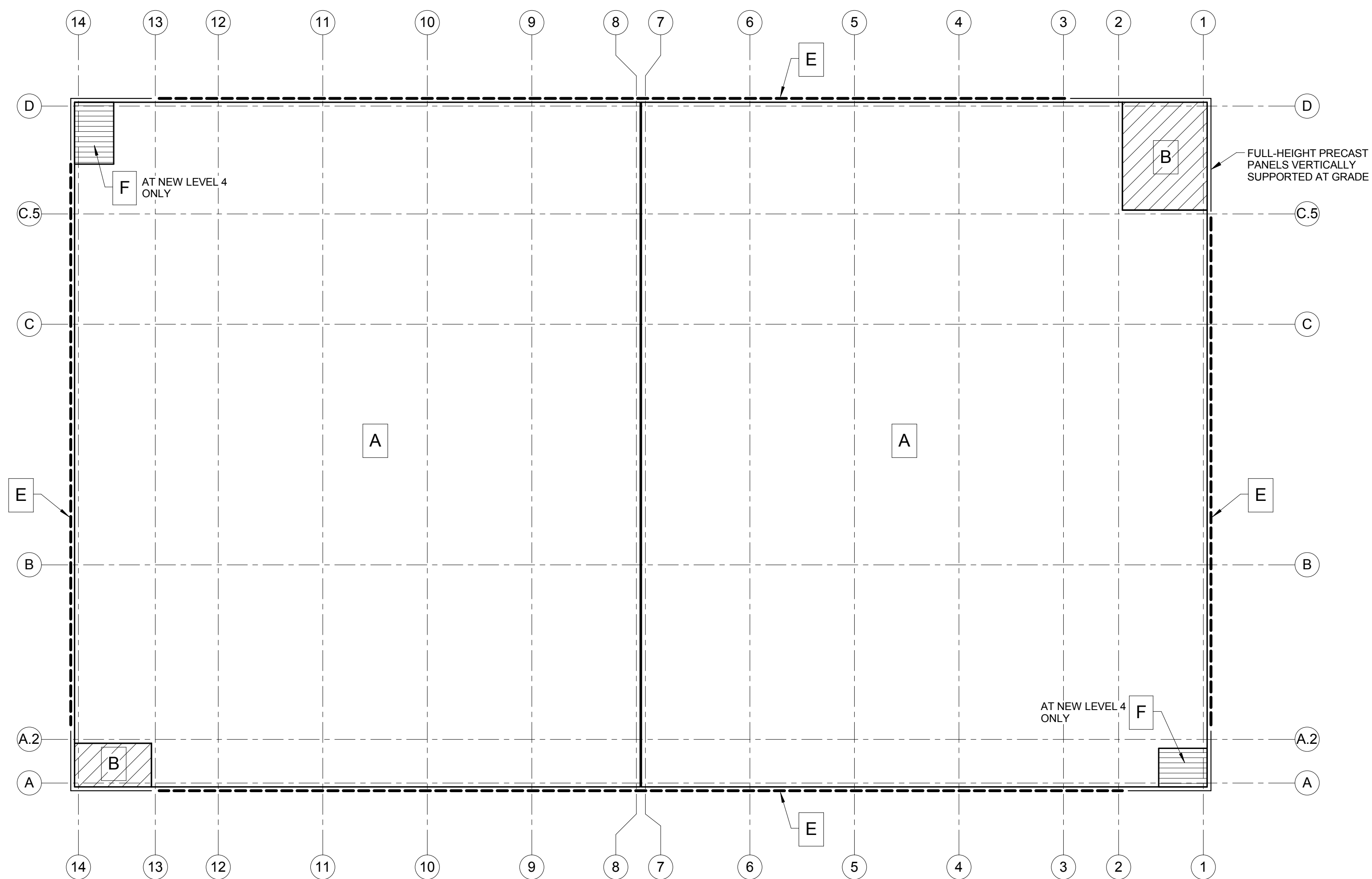
PROVIDE SPECIAL INSPECTION FOR THE FOLLOWING CONSTRUCTION:

CONCRETE MASONRY - LEVEL 1  
CONCRETE  
STRUCTURAL STEEL  
STEEL ROOF DECK

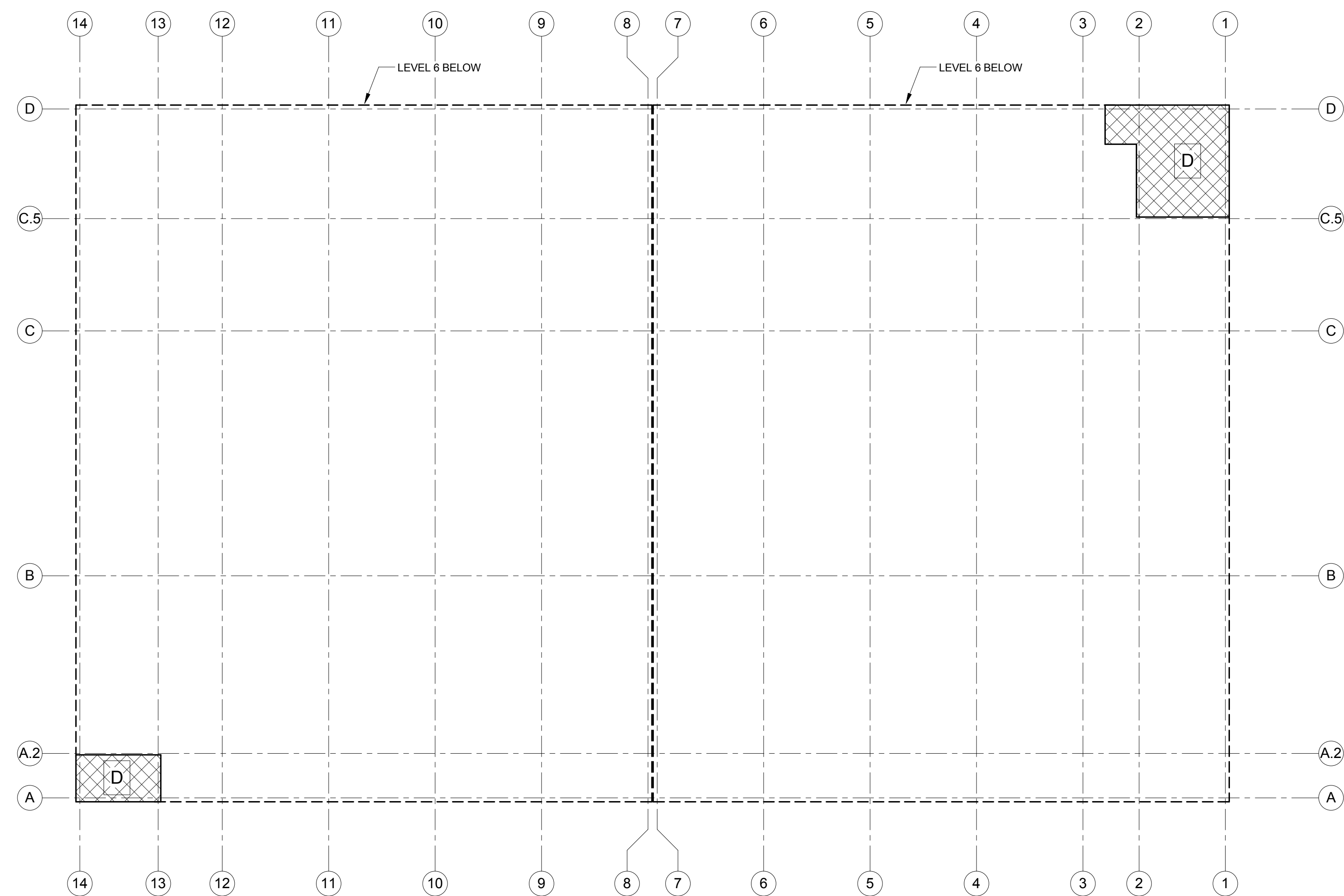
SEE TABLE(S) ON THE DRAWINGS FOR STRUCTURAL SPECIAL INSPECTION PROGRAM REQUIREMENTS. REFER TO OTHER DISCIPLINES CONSTRUCTION DOCUMENTS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK.

Revision Schedule		Comments		Date
CONSULTANTS:		TRUE NORTH		ARCHITECT/ENGINEERS:
				
7250 Shadeland Station   Indianapolis, Indiana 46256 TEL 317.547.5580   FAX 317.543.0270 www.structurepoint.com				
Drawing Title GENERAL NOTES AND SPECIAL INSPECTION TABLES				
Project Title R.L. Roudebush VA Medical Center Parking Garage				
Location INDIANAPOLIS, IN				
Date 10/14/14		Checked JAP	Drawn BGC	
Project Number 583-330		Building Number 20		Drawing Number S1003
Dwg. of 93		Office of Construction and Facilities Management VA Department of Veterans Affairs		

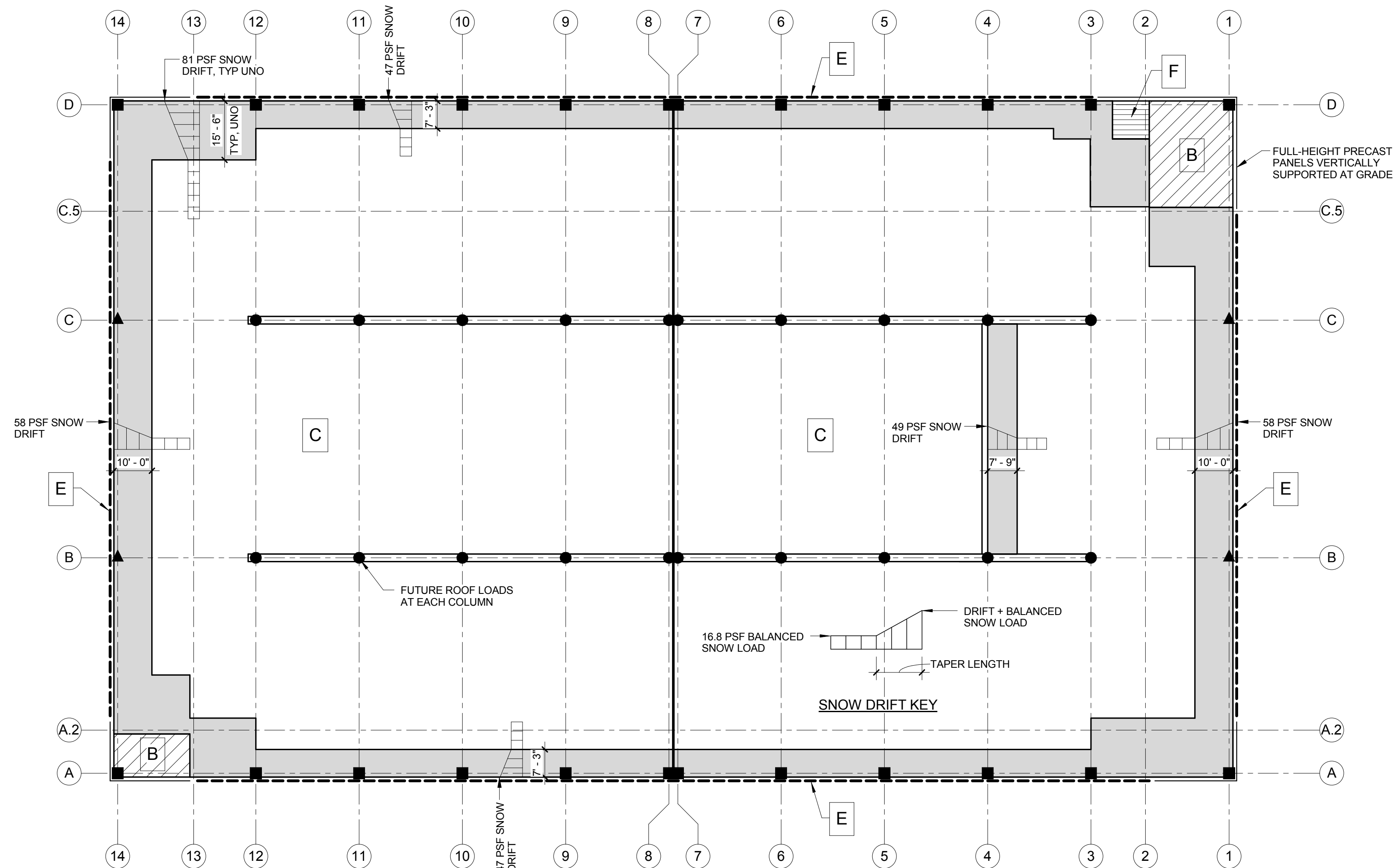




1  
S1004  
3/64" = 1'-0"



3  
S1004  
3/64" = 1'-0"



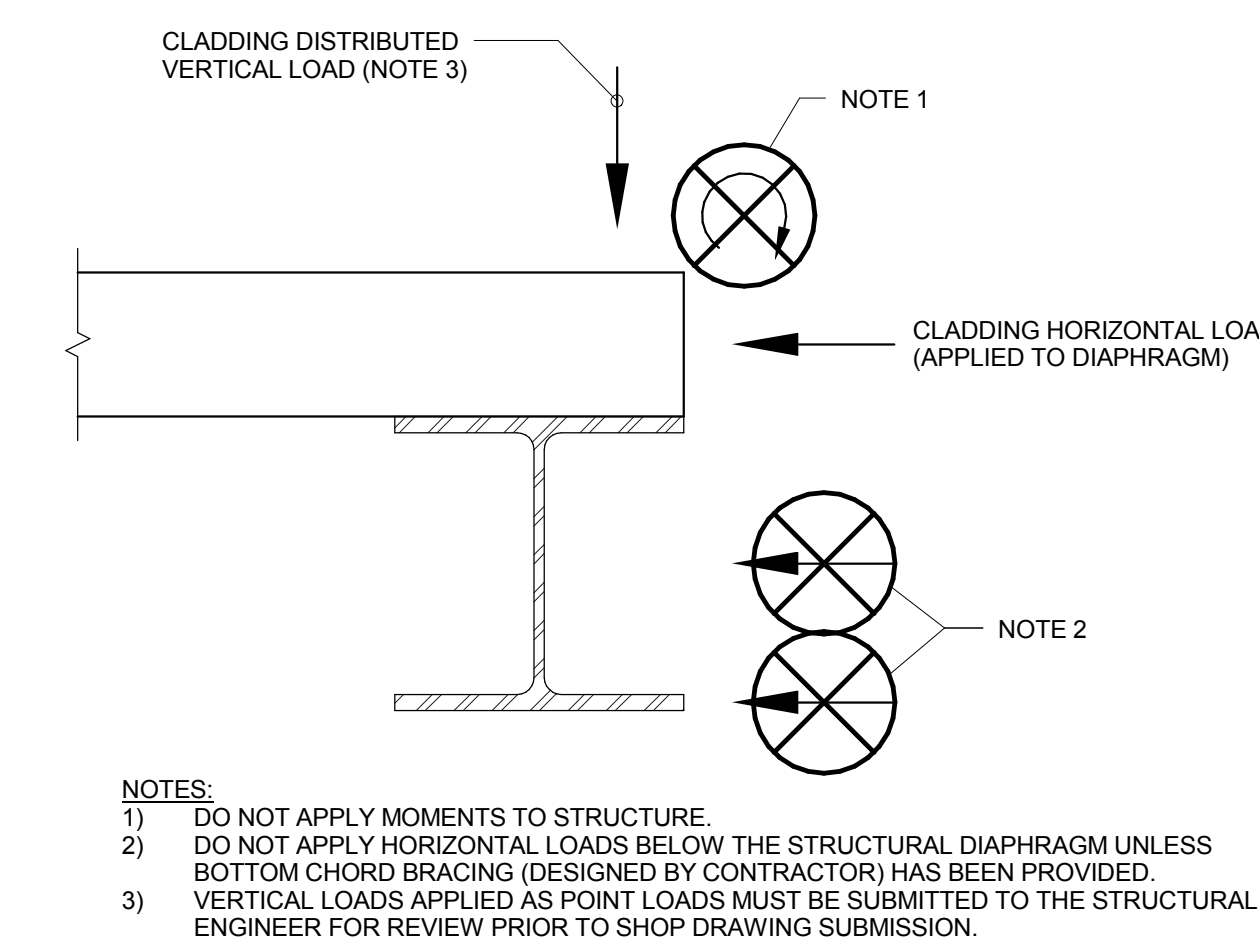
2  
S1004  
3/64" = 1'-0"

FUTURE ROOF LOAD SCHEDULE						
SYMBOL	POINT LOAD			MOMENT (ANY DIRECTION)		
	DL (KIPS)	SL (KIPS)	WL (KIPS)	DL (KIP-FT)	SL (KIP-FT)	WL (KIP-FT)
●	22.7	37.9	+/- 28.4	9.7	16.1	+/- 12.1
▲	13.1	21.7	+/- 16.3	5.9	9.3	+/- 6.9
■	10.8	18.1	+/- 13.6	4.6	7.7	+/- 5.8

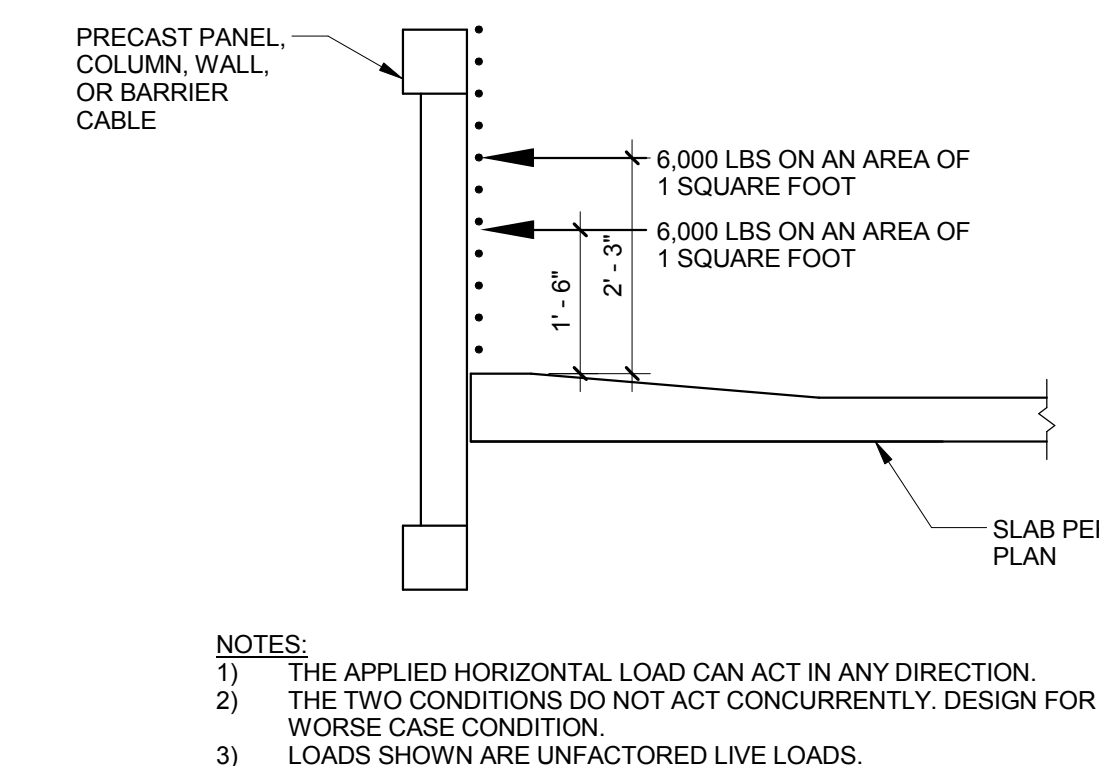
NOTES:  
1. LOADS SHOWN ARE UNFACTORED LOADS.  
2. FUTURE STRUCTURE IS ASSUMED TO BE A STEEL MOMENT FRAME SYSTEM.

LOAD SCHEDULE						
MARK	OCCUPANCY / USE	SDL		SDL		SL
		LOAD (PSF)	DESCRIPTION	POINT LOAD (LBS)	DESCRIPTION	
A	TYP FLOOR	5	NOTE 1	--	--	40 (NR)
B	STAIRS / LOBBY	5	NOTE 1	--	--	100 (NR)
C	UPPER FLOOR	5	NOTE 1	--	--	40 (NR)
D	ROOF	15	NOTE 1	--	--	20
E	PRECAST SPANDREL	750 PLF	--	--	--	--
F	ELECTRICAL ROOM	5	NOTE 1	--	--	125 (NR)

NOTES:  
1. SDL INDICATES SUPERIMPOSED DEAD LOAD AND IS DEAD LOAD IN ADDITION TO THE SELF WEIGHT OF THE PRIMARY STRUCTURAL SYSTEM.  
2. (NR) INDICATES NON-REDUCIBLE LIVE LOAD.



4  
S1004  
N.T.S.



5  
S1004  
N.T.S.

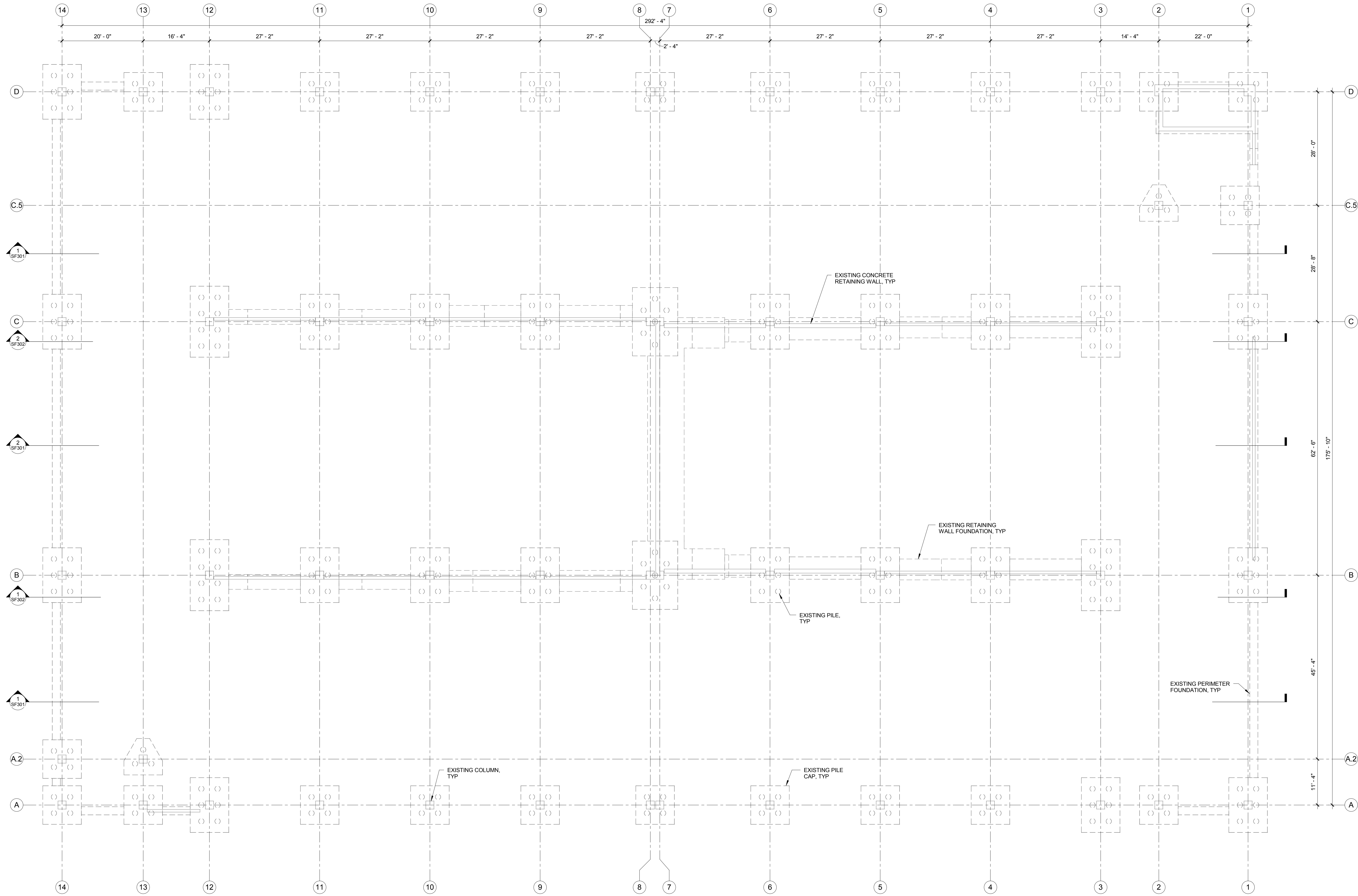
Revision Schedule		Comments		Date
CONSULTANTS:				
TRUE NORTH				
ARCHITECT/ENGINEERS:				
Drawing Title				
LOAD MAPS				
Project Title				
R.L. Roudebush VA Medical Center Parking Garage				
Location				
INDIANAPOLIS, IN				
Date	Checked	Drawn	Project Number	
10/14/14	JAP	BGC	583-330	
Building Number			20	
Drawing Number			S1004	
Dwg. 8 of 93			Office of Construction and Facilities Management	
VA Department of Veterans Affairs				

BID DOCUMENTS



one eighth inch = one foot  
0 4 8 16  
one quarter inch = one foot  
0 2 4 6 8 10 12 14 16  
three eighths inch = one foot  
0 2 4 6 8 10 12 14 16  
one half inch = one foot  
0 2 4 6 8 10 12 14 16  
three quarters inch = one foot  
0 2 4 6 8 10 12 14 16  
one inch = one foot  
0 2 4 6 8 10 12 14 16  
one and one half inches = one foot  
0 2 4 6 8 10 12 14 16  
three inches = one foot  
0 2 4 6 8 10 12 14 16

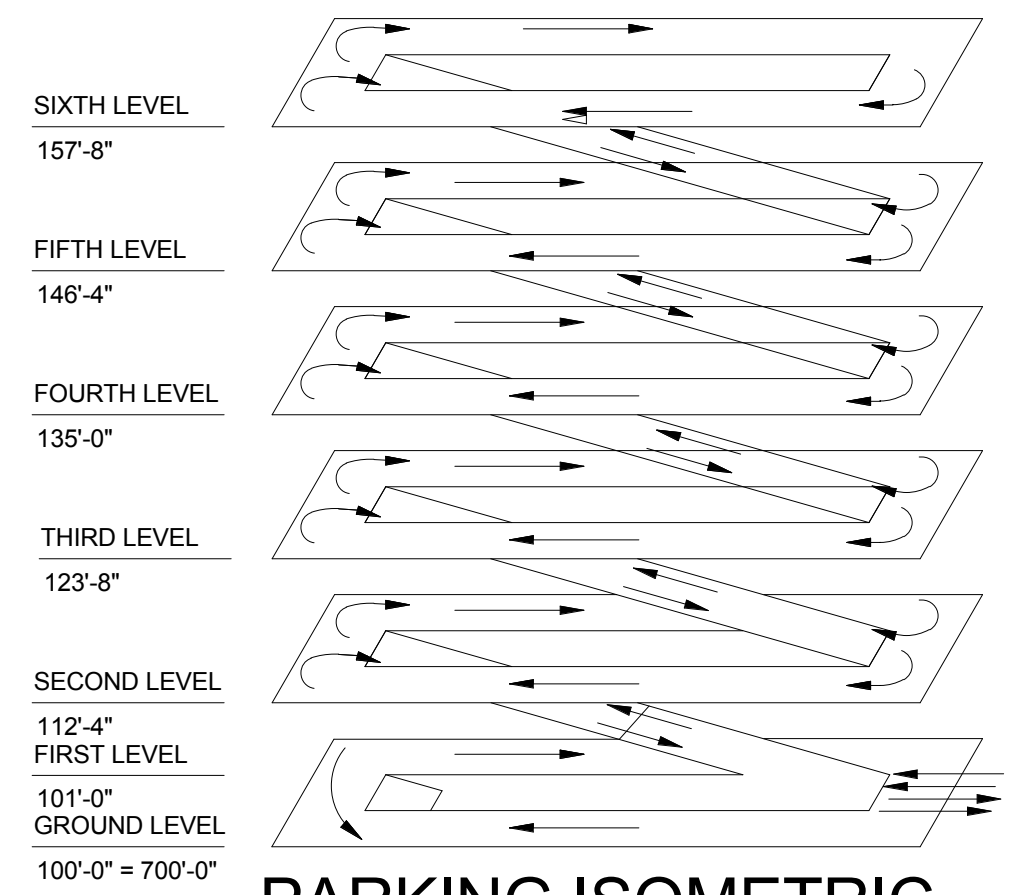
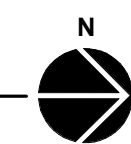
C:\Users\jason\OneDrive\Documents\2013\2010\_00022\_ST\_VA\_Indy\_PC\_CENTRAL\_08162014\_RSTR13\_bourts.rvt  
10/13/2014 8:11:24 AM



1  
SB101  
EXISTING FOUNDATION PLAN  
3/32" = 1'-0"

PLAN NOTES:

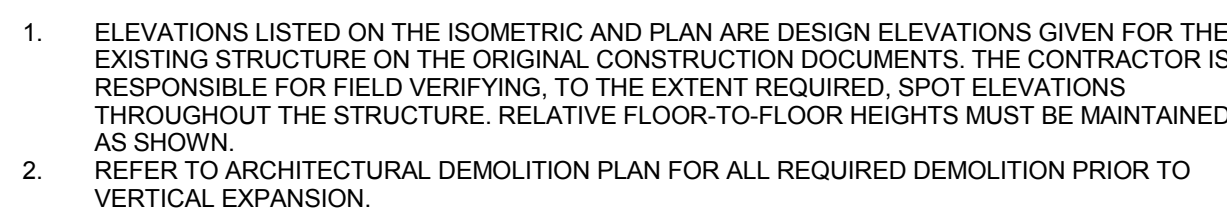
- ELEVATIONS LISTED ON THE ISOMETRIC AND PLAN ARE DESIGN ELEVATIONS GIVEN FOR THE EXISTING STRUCTURE ON THE ORIGINAL CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING, TO THE EXTENT REQUIRED, SPOT ELEVATIONS THROUGHOUT THE STRUCTURE. RELATIVE FLOOR-TO-FLOOR HEIGHTS MUST BE MAINTAINED AS SHOWN.
- REFER TO ARCHITECTURAL DEMOLITION PLAN FOR ALL REQUIRED DEMOLITION PRIOR TO VERTICAL EXPANSION.



BID DOCUMENTS

Revision Schedule		CONSULTANTS:	TRUE NORTH	ARCHITECT/ENGINEERS:			Drawing Title	Project Title			Project Number		Office of Construction and Facilities Management	
Comments											Date	583-330		
							EXISTING FOUNDATION PLAN	R.L. Roudebush VA Medical Center Parking Garage			Building Number		VA Department of Veterans Affairs	
											20			
								Location			Drawing Number		SB101	
											INDIANAPOLIS, IN			20
									SB101					
									Dwg.9 of 93					





BID DOCUMENTS

Revision Schedule		CONSULTANTS:		TRUE NORTH		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management			
Comments		Date				 7260 Shadeland Station   Indianapolis, Indiana 46226 TEL: 317.647.5080   FAX: 317.643.0270 www.structurepoint.com		EXISTING SLAB ON GRADE PLAN		R.L. Roudebush VA Medical Center Parking Garage		583-330					
												Building Number 20					
										Location INDIANAPOLIS, IN		Drawing Number SF101		VA Department of Veterans Affairs			
										Date 10/14/14		Checked JAP				Drawn BGC	
																Dwg.10 of 93	