GENERAL A The structural contract decurrents included basein are for the pour	another ation of additional flague on the	PART 2 - CAST-IN-PLACE CO 1. CONCRETE MIX PROPER				
A. The structural contract documents included herein are for the new of existing Visitor Garage located at Maine Medical Center in Portland (Simpson Gumpertz & Heger Inc.) understands that Maine Medical consultant to review and repair some damaged connections in the example.	, ME. The Engineer of Record Center has engaged a third-party	Element Interior Lightweight Slabs on Metal Deck, Pads, and Curbs	Density (pcf) 110 ± 3%	Strength (psi / days 4,000 / 28	Max w/cm 0.45	Air Content 0% (as mixed)
structural contract documents assume that any damaged connection carrying capacities meet or exceed the capacities of the original contract to project specifications for detailed requirements for material	ns are repaired so that their load- nnections.	Metal Pan Stair Fill All Other Concrete	145 ± 3% 145 ± 3%	3,000 / 28 4,000 / 28	0.45 0.45	0% (as mixed) 0% (as mixed)
 C. Unless otherwise noted, details, sections and notes contained in the be considered typical for all similar conditions even if not explicitly reduced to D. Deficient work and/or work not in conformance with the contract documentator's expense. The contractor shall compensate the client for the contractor of the contractor o	e structural contract documents shall eferenced. cuments shall be repaired at the	A. Portland Cement: ASB. Admixtures: See project C. Supplementary cement	ct specifications	for permissible adm		num and
work, review of modifications/contractor substitution, or expediting of E. Cost of investigation and/or redesign incurred by the Engineer of Re	of submittals.	maximum replacement 2. STEEL REINFORCEMENT	rates for each c		713 101 111111111	ium and
at the contractor's expense. F. The contractor shall submit a single dimensioned and coordinated or locations of all sleeves and openings required by all trades prior to its contractor and the base building attractors and to recommend the base building attractors and the base building attractors are also at the base building attractors and the base building attractors are also at the base building attractors.	nitiating any work.	A. ASTM A615 Grade 60, B. ASTM A706, deformed	deformed. where rebar is i		ed.	
G. Loads imposed on the base building structure and temporary condit construction means and methods are not explicitly considered in thi the Engineer of Record regarding construction loads and temporary	s design. The contractor shall advise conditions imposed on the building	C. Do not tack or spot-we D. ASTM 1064 for welded E. ASTM A955, deformed	-wire reinforcem	ent. Use flat sheets		
structure and shall compensate the Engineer of Record for reviewir H. The Contractor is advised that the Engineer of Record has not eval for the impact of temporary loads due to construction access or equ	uated any of the existing structures ipment. Evaluation of the existing	3. REINFORCEMENT AT OP A. UON, provide 2 - #6 at	each side of all			
structures to support construction equipment and materials is the re ELEVATIONS AND DIMENSIONS	esponsibility of the Contractor.	beyond the opening or to extend from floor to B. Bars may be moved as	floor.	•	•	
A. All dimensions, elevations and conditions shall be verified in the field discrepancies shall be brought to the attention of the Engineer of Re- proceeding with the affected part of the work. Dimensions and elev	ecord for clarification before	SPLICING OF REINFORC A. As shown on the typica				
documents as (±) and all field conditions shall be verified in the field submissions of shop drawings. Upon receipt of shop drawings, the that all field dimensions, elevations and conditions have been verified	engineer has the right to assume	B. Tie bars together at lag 5. MINIMUM REINFORCEME				
shop drawings accurately reflect such verifications unless stated oth BUILDING CODE AND REFERENCE STANDARDS		A. In slabs, provide at least 6. REINFORCEMENT SHOP	st 0.0018 times t	the area of concrete	in each direc	ction.
A. Maine Uniform Building CodeB. International Building Code 2015 (IBC)C. ASCE/SEI 7-10, Minimum Design Loads for Buildings and Other St	ructures	A. Submit for approval, co welded wire reinforcem B. Include accessory draw	ent, indicating po		of all reinforc	ement including
DESIGN LOADS A. Dead Loads:		7. SPECIFIED CONCRETE C A. Concrete on metal dec	LEAR COVER	3/4 in	1.	
 All permanent stationary construction including mechanical equ on the structural drawings. Superimposed on all driving surfaces 	ipment and their weights where noted 5 psf	B. Cast-in-place concrete 8. POST-INSTALLED ANCHO	washes in parki			
Photovoltaic array on roof (applied to columns and affected wal Live Loads (uniform/concentrated)	ls only) 15 psf	A. Expansion Anchors: Hi 1. Install per Hilti insta 2. Provide standard d	lti Kwik Bolt TZ o allation recomme	endations.	LION	
Where appropriate, these loads have been reduced in accordance Code.	with Section 1607.10 of the Building 40 psf / 3000lb	 Provide Galvanized applications. 	d or Stainless St	eel anchors and har	dware in all e	
 Parking garage floors (Passenger cars only) Stairs and elevator lobbies Hung corridors and pedestrian connectors 	100 psf 100 psf	B. Adhesive Anchors: Hilt 1. Install per Hilti insta 2. Provide standard d 3. Do not use in an or	allation recomme epth of embedm	endations. Jent as listed by Hilti		J. Ju Jyual.
 Corridors above the first floor and support areas Parking garage roof Precomposite construction live load Crosh barrior load (applied 2) 3" from garage finished floor) 	80 psf Roof snow load plus parking 20 psf	 Do not use in an overall and the second applications. 			dware in all e	exterior
 7. Crash barrier load (applied 2'-3" from garage finished floor) c. Live Load Reduction: Where permitted, the live loads above have because 1607 10 of the Building Code 	6000lb een reduced in accordance with	9. EXISTING SURFACE TRE A. Roughen all existing co		common with new c	concrete to a	mplitude of 1/4
Section 1607.10 of the Building Code. Roof Snow Load Parameters		in. B. Existing concrete shall where a secondary pou		red concrete on this	job at constr	ruction joints or
Where appropriate, drifting snow loads have been considered in ac Parking Garage:		10. HOUSEKEEPING PADS A A. Pads and curbs may be	e shown on plan			
 Ground Snow Load, P_g Flat Roof Snow Load, P_f Snow Exposure Factor, C_e 	60 psf 51 psf 1.0	Architectural and Mech equipment manufacture B. Provide the same cond	anical Drawings er's requirements	and Specifications a and location.		
 4. Snow Load Importance Factor, I_s 5. Thermal Factor, C_t 	1.0 1.2	11. STANDARD SPECIFICATI A. CRSI Manual of Standa				
East Stair Tower: 1. Ground Snow Load, P _g 2. Flat Roof Snow Load, P _f	60 psf 42 psf	B. ACI 318-14 - Building CC. Follow the latest recommendationInstitute:				Concrete
 Snow Exposure Factor, C_e Snow Load Importance Factor, I_s Thermal Factor, C_t 	0.9 1.0 1.1	ACI 301 - Specification ACI 302 - Concrete Flo ACI 304 - Guide for Me	or and Slab Con	struction	lacing Concr	rete
Wind Load Parameters 1. Basic Design Wind Speed (3 second gust), V _{des}	120 mph (Risk Category II)	ACI 305 - Hot Weather ACI 306 - Cold Weather ACI 308 - Guide to Cur	Concreting er Concreting	Transporting and T	idollig Collors	o.co
 Wind Speed for Lateral Drift Calculations, V Wind Exposure Internal Pressure Coefficient 	100 mph B 0.00 (Parking Garage)	ACI 300 - Guide to Gui ACI 315 - ACI Detailing ACI 347 - Guide to For	Manual	rete		
5. Base shear A. East-West	±0.18 (East Stair Tower) 340 kips	12. STRUCTURAL TESTING A A. Absolutely no concrete	is to be placed p	orior to rebar being i		
B. North-South Design Wind Pressure: Components and Cladding: Refer to drawn and Cladding: Ref	690 kips	B. Refer to program of str			_	
Seismic Load Parameters 1. Seismic Importance Factor, I _e	1.00	A. All curing compounds r for requirements. Curin	g compounds sh	nall not be used on f	latwork.	
 Spectral Response Acceleration, S_s Spectral Response Acceleration, S₁ Site Class 	0.242 0.078 D	14. CORE-DRILLED AND SAVA. To the greatest extent conduits, and mechanic	possible, opening cal ductwork in c	gs for plumbing, fire oncrete walls and sl	protection, e abs shall be	electrical coordinated
 5. Spectral Response Coefficient, S_{ds} 6. Spectral Response Coefficient, S_{d1} 7. Seismic Design Category 	0.258 0.125 B	prior to construction; th and saw-cutting may be SER for review and ap	e required. The operation required in the contract of the cont	contractor shall subr aking any cuts or co	nit a core rec res. The SEI	quest form to the R will carry out
8. Building Period, TA. East-West DirectionB. North-South Direction	0.705 sec 0.705 sec	such reviews as the SE must include: the reaso or cored indicating the	on for the cut or o project North dir	core; an overall phot ection and other nea	ograph of the arby openings	e area to be cut s; and a plan
9. Design Base Shear, VA. East-West DirectionB. North-South Direction	1,500 kips 1,200 kips	(for slabs) or an elevati with respect to column all of this information. A	lines and floor le request for app	vels. The SER will r	not review red	quests without
 10. Seismic Response Coefficient, C_s A. East-West Direction B. North-South Direction 	0.044 0.035	the SER will approve the SER w	ne cut or core.			
Seismic Force Resisting System A. Precast Parking Garage a. East-West Direction Intermediate	Precast Shear Walls (Load Bearing),	Refer to architectural e keeping pads, and curb				b edges, house
$R = 4.0; C_D =$ b. North-South Direction Intermediate		PART 3 - STRUCTURAL STEI	EL .			
 B. Stair North East Corner a. Steel Systems Not Specifically Detailed for Seismic Re 12. Analysis Procedure: Equivalent Lateral Force 		STRUCTURAL SHAPES A. Wide Flange Shapes B. Square and Rectangula	ar Hollow Structu		И A992 (Fy = И A500, Gr. I	= 50 ksi) B (Fy = 46 ksi)
 Seismic Load Parameters for Non-Structural Components - To be of engineers retained by the Contractor. 	designed by specialty structural	C. Round Hollow Structura D. Angles		or AS ASTN	STM A1085 (I M A500, Gr. E	
 Component Importance Factor, I_p Component Amplification Factor, a_p Component Response Modification Factor, R_p 	varies by component varies by component varies by component	E. Channels F. Plate G. Pipe		ASTN ASTN	M A36, UON M A36, UON	(Fy = 36 ksi) (Fy = 36 ksi) E or S, Grade B
 Component Response Modification Factor, R_p Horizontal Design Force, F_p TERAL LOAD RESISTING SYSTEM 	varies by component	2. BOLTED CONNECTIONS		7.011	, · JPC	_, C.aao D
All lateral load resistance and stability of the completed garage struwalls in the north-south direction, and bearing concrete shear walls	in the east-west direction. Lateral	A. ASTM A325 Typ, unles 3. WELDING ELECTRODES	s noted as ASTI	M A490.		
load resistance and stability of the stair tower is provided by braced locations, and see lateral system elevation sheets for shear wall and The contractor is responsible for ensuring the temporary lateral stall structure is under construction, before all pieces are in place and all structure is under construction, before all pieces are in place and all	d braced frame elevations. bility of the structure while the	A. Conform to AWS Spec and grade of steel. E7 B. See project specification	0XX electrodes	(MIN.) for all welds.		•
structure is under construction, before all pieces are in-place and al	i connections are made.	splice welds in momen 4. FABRICATION		. equilionicino IUI De	-a.m-colulliff	and coluitiff
Composite Steel Beams 1. Post-Composite Live Load Deflection 2. Post-Composite Total Superimposed Load Deflection	span/360 span/240	A. Shop fabricate to great caps and bases, holes	and connections	5.		
 Post-Composite Total Superimposed Load Deflection, Supporting Curtain Wall Net Total Deflection 	lesser of span/360 or 0.375 in. 1 in.	B. Submit complete shop structural steel prior to		eia aimensions for tl	ne Architect's	s approval of all
Non-Composite Steel Beams 1. Live Load Deflection	span/360	 ERECTION A. Provide anchor rods, s columns. 	-			·
 Total Superimposed Load Deflection Total Superimposed Load Deflection, Supporting Curtain Wall 	span/240 lesser of span/360 or 0.375 in.	B. Provide bearing plates concrete and all other r C. Do not field cut or field	necessary conne	cting hardware.		· ·
4. Net Total Deflection	1 in.	for each specific case. 6. PAINT	Lany Grig Gride	2.23. Millout p	con a	, , wy OLIN
		A. Shop prime all steel no B. See Architectural Draw C. Coatings on members	ings and Specifi	cations for finish coa	at requiremer	
		Class A faying surface		omedions shall sa	ແລເງ ເເເ ເະ requ	mements Of a
		7. HOT-DIP GALVANIZING A. All steel, including but r metals, that is exposed	to the exterior e	elements (weather) s	shall be hot-d	dip galvanized.
		All field welds, or areas a zinc-rich paint ("cold B. Plug weld vent holes at	galvanizing") afte ter galvanizing.	er steel is completel		loucned-up with
		C. Seal weld all seams no 8. FRAMING	t otherwise weld	ed.		
		A. Beams are equally spaB. Cantilevered beams arC. Bolt patterns shown on	e same size as t details illustrate	the concept of the o		
		necessarily show the a unless specifically deta	ctual number and			
		9. STANDARD SPECIFICATI			RDS	
		A. AISC 360-10 Specifica	tion for Structura al Welding Code	ıl Steel Buildings - Steel		
			al Welding Code Structural Joints	- Steel s Using High Streng	th Bolts, 200	9
		A. AISC 360-10 SpecificaB. AWS D1.1-10 StructuraC. RCSC Specification for	al Welding Code Structural Joints D INSPECTION pections are req	 Steel Using High Streng S uired for this project 		

```
PART 4 - STEEL DECK AND SHEAR STUDS
    A. Provide steel deck made from galvanized steel with minimum yield strength of 40 ksi.
    B. See Drawings and Specifications for gauge and profile.
    C. Provide sheet metal pour stops with thickness based on SDI criteria (SDI Publication #
        31); 14 gauge min. thickness.
    D. All steel deck and supporting members are sized and spaced assuming at least a two
        span condition for the metal deck. The steel deck supplier, installer, and general
        contractor shall coordinate installation and shoring requirements for single span deck.
      E. All steel deck is assumed unshored. Provide addtional concrete as necessary to
        account for deck deflection and achieve a flat surface.
2. HEADED STUDS
   A. Provide headed type studs which conform to ASTM A108 Grade 1015 or 1020 cold
        finished carbon steel.
    B. Provide 3/4 in. diameter by 4-1/2 in. long studs, UON.
        See the drawings for number and locations of studs.
        Space studs uniformly along length of beam, UON.
       Provide a minimum of 1 in. from the edge of any stud and the face of concrete, a metal
        deck rib or similar discontinuity.
    F. Where composite steel beams on drawings do not show a shear stud designation,
        provide the following minimum number of shear studs:
          . Beams designated as part of lateral force-resisting system: 1 stud per foot
      All other beams: 1 stud per 2 feet
STANDARD SPECIFICATIONS
   A. AISC 360-10 - Specification for Structural Steel Buildings Part 16, Chapter I.
   B. AISI S100-12 - North American Specification for the Design of Cold-Formed Structural
        Steel Members.
      C. SDI C1.0-10 - Standard for Composite Steel Floor Deck

    AWS D1.3-08 - Structural Welding Code - Sheet Steel

     E. AWS D1.1-15 - Structural Welding Code - Steel
4. STRUCTURAL TESTS AND INSPECTIONS
   A. Structural tests and inspections are required for this project. Refer to the program of
        structural tests and inspections on drawing S00-02.
 PART 5 - STRUCTURAL PRECAST CONCRETE
    A. Structural precast concrete work shall conform to the quality standards of PCI and to
        the structural design standards of ACI 318. Precast units shall be manufactured at a
        plant certified for their work by the PCI Plant Certification Program.
2. MATERIAL PROPERTIES
                             Density (pcf) | Strength (psi / days) | Max. w/cm | Air Content
Double Tees and Spandrels 145 ± 3% 5,000 / 28 0.40 6% ±1.0%
Columns and Shear Walls 145 ± 3% 6,000 / 28 0.40 6% ±1.0%
    A. Normal weight aggregate: ASTM C33, with maximum size of 3/4 in.
    B. Prestressing Wire: Low relaxation wire strand, ASTM A416, Grade 270
      C. Reinforcing Steel: Deformed bar, ASTM A615, Grade 60. Welded bars shall conform to
        ASTM A706.
     D. Welded Wire Reinforcement: ASTM A185
    E. Steel Embedments and Connections: Stainless steel or ASTM A36, hot dip galvanized
        (ASTM A153). For galvanized embedments, mask weld lines prior to galvanizing.
   F. Grout Between Bearing Surfaces: Approved non-shrink, premixed grout with a
        compressive strength of 8,000 psi at 3 days.
    G. Bearing Pads: Approved elastomeric pads or approved material.
   H. Anchor Bolts: A307
    I. Admixtures: an approved water reducing agent or super-plasticizer is permitted for
        reaching desired compressive strengths and maintaining workability. Use an ASTM
        C260 air entraining admixture for all precast concrete subjected to freeze-thaw
        conditions. Use corrosion-inhibiting admixture for all driving surfaces in parking garage.
GENERAL
   A. The edges of floor elements shall be prepared by the precast manufacturer to receive
        the approved joint sealant system.
    B. The precast contractor shall furnish and install all precast concrete elements, all
        connecting and supporting hardware, grout, and other work required to provide
        functional precast concrete systems.
      C. Precast elements shall be handled in a manner so as to prevent cracks, chips, spalls, or
        other deformities during all phases of manufacture, shipping, and erection. Provide
        additional reinforcing if required by handling procedures. Defective or damaged
        elements will be replaced by the precast contractor, or repaired by the precast
        contractor if permitted by the engineer. Store precast items at precast plant or on the
        job site, prior to erection, so as to prevent damage from moisture, freezing, or
    D. The precast contractor will clean all surfaces of the precast concrete work as necessary
        to remove any dirt or stains after erection is complete. Remove all weld stains. Touch
        up galvanized steel connections that have been welded with zinc-rich paint. Paint shall
        be MPI #18, MPI #19, or SSPC-Paint 20 formulated in accordance with ASTM A780.
    E. Unless otherwise noted on the contract documents, manufacturing tolerances shall
        comply with PCI MNL-116, MNL-117, and MNL-135.
      F. Erection tolerances shall comply with Article 10 of PCI MNL-135.
    G. Curing: comply with the latest recommendations and specifications of the American
        Concrete Institute (ACI) cited under "cast-in-place concrete" and the recommendations
        of the precast concrete institute (PCI).
   H. Submit for designer's approval complete shop drawings and structural design
        calculations for all precast concrete work, including any inserts for hoisting. Include
        accessory drawings. Fabrication of precast items shall not begin until shop drawings
        and design calculations have been reviewed and approved by the engineer of record
        (EOR). Structural design calculations shall be stamped and signed by a professional
        engineer registered in the State of Maine.
       The contractor shall submit to the engineer for approval:

    Erection Drawings

         2. Production Drawings
         3. Structural Design Calculations
         4. Test Results of Quality Control Tests
         5. Field Defect and Repair Reports
    J. Use 8000 psi (min.) non-shrink grout under all precast concrete shear walls & columns
        to ensure uniform contact with members below, typ uon.
    K. Bearing pads shall be used as needed for spandrel beam, double tee and shear wall
        connections according to requirements in specifications. Submit bearing pad product
        information for review and approval by the Engineer of Record (EOR) prior to use.
      . Use NMB splice sleeve system for all vertical connections between precast members
        and CIP foundation walls. Dowel sleeves must be vacuumed completely free of all
        material prior to filling with high-strength grout. Grouting of dowel sleeves shall be
        conducted under continuous special inspection by owner's testing lab.
    M. Color shall be natural, unpigmented gray concrete.

    N. Texture on exterior surfaces shall be as indicated on the architectural drawings,

        structural drawings, and specifications. The precast manufacturer and construction
       manager shall ensure that all exterior surfaces are uniform, absent of any defects, and
        will accept the specified architectural finish.
    O. Use stainless steel (ASTM A666) for all precast connections unless otherwise noted in
        the drawings. Use galvanized steel (ASTM A123) for all other connection accessories
        and assemblies.
    P. Maximum final differential top elevations between any two adjacent horizontal surfaces
        shall not exceed 1/4 in.
    Q. All embedded items in the cast-in-place concrete required by the precaster shall be
        supplied by the precaster.
   R. Precast fabricator shall submit, for review and approval by the EOR, an engineered
        erection plan, stamped and signed by a professional engineer registered in the State of
        Maine. Erection will not begin until engineered erection plan has been approved.
4. STRUCTURAL TESTS AND INSPECTIONS
   A. Structural tests and inspections are required for this project. Refer to the program of
        structural tests and inspections on drawing S00-02.
```

SYMBOL LEGEND — STANDARD BEAM CONNECTION DIRECTION OF DECK OR SLAB SPAN Pu = FACTORED AXIAL FORCE ON MEMBER (KIPS) Vu = FACTORED SHEAR FORCE ON MEMBER (KIPS) Mu = FACTORED MOMENT ON MEMBER (KIP - FEET) (#) = NUMBER OF HEADED SHEAR STUDS NEW PRECAST CONCRETE EXISTING PRECAST CONCRETE NEW CAST IN PLACE CONCRETE EXISTING CAST IN PLACE CONCRETE SLAB OR ROOF DECK OPENING **ABBREVIATIONS** International Building Code V OR VERT. Vertical International Code Council Vertical Each Face IN. OR " VIF, ± Anchor Bolt Verify in Field Inch, Inches American Concrete Institute Vertical Inside Face ADD'L VOF Vertical Outside Face Additional Inverted **AESS** INFO. Architectural Exposed Information Structural Steel AISC W/O WP Without American Institute of Steel Work Point Construction WHS Kips (1000 Pounds) Welded Headed Stud APPROX. WTS Welded Threaded Stud Approximate Kips per Square Inch ARCH. Architect KSF Kips per Square Foot WWR Welded Wire Reinf. ASD Allowable Strength Design ASTM LBS OR # American Society for Testing and Materials Live Load AWS American Welding Society LW Lightweight Lightweight Concrete LRFD BLK'G Load & Resistance Factor B OR BOT Bottom Long Leg Horizontal BRG. LLV Long Leg Vertical Both Sides Low Point BTWN. LSH Long Side Horizontal Between LONG. Longitudinal LTWT. Camber Lightweight Center to Center MAX. Maximum Control Joint MATL Cast-in-place Material MECH Center Line Mechanical MFR Manufacturer 0.001 Inch CMU COL. CONC. CONN. CONT. Concrete Masonry Unit MIN. Minimum MISC. Miscellaneous Near Face Connection Continuous Complete Joint Penetration NWC Normal Weight Concrete CSK. Countersink NO., # CTBR. Counterbore Near Side CTR. Not to Scale Center CTRD. Centered Normal Weight Dowel Bar Anchor On Center Outside Diameter Demand Critical (Weld) OH Opposite Hand DET., DTL OPNG OPP DIA., Ø Precast Concrete Institute Dead Load Powder-Actuated Fasteners PART. DSA PCS Division of the State Pounds per Cubic Foot DWG(S). Partial Penetration Pounds per Square Foot Pounds per Square Inch Puddle Weld Each End PC Precast Each Face RAD. Each Side Radius Each Way Roof Drain REINF. EXP. BOL Expansion Bolt Reinforcing Expansion Joint Reference Remainder Elevation EMB.,EMBED. Embedment Rough Opening EOD RND. Edge of Deck Round EOR Engineer of Record R.R. Remove & Replace EOS Edge of Slab S.A.D. Embed Plate See Architectural Drawings Shear Connector or Slip Egual EQUIP. Critical Bolt Equipment Schedule Foundation Steel Deck Institute FIN. FL SECT. Finish Floor F.G. SER Structural Engineer of Finish Grade Sheet Floor Drain Similar FRMG. SLV Short Leg Vertical FRP Fiber Reinforced Polymer S.M.D. See Mechanical Drawings SOG Far Side Slab-on-Grade FT OR Foot, Feet Sump Pit FTG. Spaces Full Penetration Weld Square

> Stud Rail Stainless Steel

Standard

Structural

Symmetrical

Top and Bottom

Top of Concrete

Top of Deck

Top of Steel

Top of Wall Typical

Top of Topping

Unless Otherwise Noted

Stiffener

STAGG'D.,STG.Staggered

STIFF.

STL STR.

SUP

TOW

SYMM.,SYM.

GALV. G.C.

GENL

HOF

H OR HORIZ. Horizontal

Galvanized

Grade Beam

High Point

High Strength Hot-dip Galvanized

General

General Contractor

Horizontal Each Face

Horizontal Inside Face

High Strength Bolt

Horizontal Outside Face

Hollow Structural Section

PERKINS 225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS

www.perkinswill.com

CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106

Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC 99 Bedford Street, 2nd Floor, Boston MA 02111

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Turner Construction 2 Seaport Lane, Suite 200, Boston MA 02210 ELEVATOR CONSULTANT

VDA (Van Deusen & Associates)

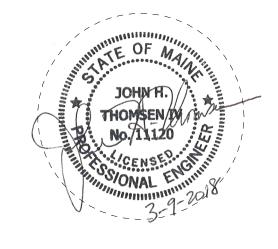
CONSTRUCTION MANAGER

101 Summer Street, 4th Floor, Boston MA COST ESTIMATOR

D. G. Jones International 3 Baldwin Green Common, Suite 202, Woburn MA 01801

> Visitor Garage Expansion 22 Bramhall Street Portland, ME 04102

PROJECT TITLE



KEY PLANS

PROJECT KEY PLAN

GARAGE

OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING 8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

152182.000 Job Number Checked

GENERAL NOTES, SYMBOLS & **ABBREVIATIONS**

S00-01

Copyright 2018 @ Perkins + Will

SHEET NUMBER

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the 2015 International Building Code (IBC 2015). It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines: STRUCTURAL. The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge (RDP). Discovered discrepancies shall be brought to the immediate attention of the contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the RDP. The Special Inspection program does not relieve the contractor of his or her responsibilities for quality assurance.

Interim reports shall be submitted to the Building Official and the RDP.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies noted in the inspections shall be submitted by the Special Inspection Coordinator prior to issuance of a Certificate of Use and Occupancy. Job site safety and means and methods of construction are solely the responsibility of the contractor.

Interim reports shall be submitted monthly.

SCHE	DULE OF INSPECTION	N AND TESTING AGE	NCIES
SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS	TELEPHONE #
Special Inspection Coordinator	TBD	TBD	TBD
Inspector	TBD	TBD	TBD

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent in accordance with Section 1704.1 the 2015 International Building Code (IBC 2015) and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work.

STATEMENT OF CONTRACTOR'S RESPONSIBILITY

In accordance with IBC 2015 Section 1704.4, each contractor responsible for the construction or fabrication of a main wind-force resisting system or a seismic-force-resisting system or a wind- or seismic-resisting component listed in the statement of special inspections above must submit a Statement of Responsibility to the Structural Engineer of Record, the building official and the owner prior to commencement of work on the system. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspections.

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license

Object and English and P. Francisco de D. Francisco de D. Harden and D.
Structural Engineer – a licensed PE specializing in the design of building structures
Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination
AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION
Concrete Field Testing Technician – Grade 1
Concrete Construction Special Inspector
Laboratory Testing Technician – Grade 1&2
Strength Testing Technician
AMERICAN WELDING SOCIETY (AWS) CERTIFICATION
Certified Welding Inspector
Certified Structural Steel Inspector
INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION
Structural Masonry Special Inspector
Structural Steel and Welding Special Inspector
Spray-Applied Fireproofing Special Inspector
Prestressed Concrete Special Inspector
Reinforced Concrete Special Inspector
ATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)
Concrete Technician – Levels I, II, III & IV
Soils Technician - Levels I, II, III & IV
Geotechnical Engineering Technician - Levels I, II, III & IV

PRECAST CONCRETE CONSTRUCTION - IBC 2015 SECTION 1705.3 /
ACI 318-14 SECTION 26.13

T			
ITEM	AGENCY	INSPECTION FREQUENCY	SCOPE
PLANT CERTIFICATION/QUALITY	ICC-RCSI	PERIODIC	Review plant quality control procedures.
CONTROL PROCEDURES	100-1001	PERIODIC	Inspect plant storage and handling procedures.
		PERIODIC	Confirm that approved submittals are in the plant and are being used for fabrication.
		PERIODIC	Review welder's certifications.
		PERIODIC	Monitor finished product for structural defects (cracks).
FORMWORK GEOMETRY	ICC-RCSI	PERIODIC	Inspect form sizes, geometry, and finishes per the Contract Documents.
REINFORCEMENT INSTALLATION	ICC-RCSI/ICC-PCSI	PERIODIC	Inspect location, size, condition, cover, and placement of all reinforcement (including prestressing tendons if applicable), reinforcement supports, inserts, and accessories for conformance to approved shop drawings and to Contract Documents.
		PERIODIC	Inspect placement of all reinforcement for compliance with ACI 318 Sections 25.2, 25.3, 26.6.1 - 26.6.3 and ACI 301 Section 3.3.
		PERIODIC	Verify weldability of reinforcing steel other than ASTM A706 per IBC 1705.3.
REINFORCING STEEL WELDING	ICC-RCSI	PERIODIC	Inspect reinforcing steel resisting flexural and axial forces in intermediate and special moment frames and boundary elements of special reinforced concrete shear walls and shear reinforcement.
BOLTS AND EMBEDDED ITEMS IN CONCRETE	ICC DCCI	PERIODIC	Inspect interface connections including end and edge doweling.
EXPOSED TO TENSION AND SHEAR	ICC-RCSI	PERIODIC	Inspect embedments for proper location and embedment length.
	100 500:	PERIODIC	Review for conformance to ACI 318 and Contract Documents.
MIX DESIGN	ICC-RCSI	PERIODIC	Inspect for proper mix proportions and mix technique per ACI 318 Chapter 19 and Sections 26.4.3 and 26.4.4.
MATERIAL CERTIFICATION	ICC-RCSI	PERIODIC	Review in field all materials, manufacturer's certifications, mill reports, etc., for conformance to Contract Documents.
MATERIALS CERTIFICATION RECORDS	ICC-RCSI	PERIODIC	Maintain records of all material certificates, mill reports of all concrete mix constituent materials, and reports of steel reinforcement.
SAMPLING OF FRESH		PERIODIC	Collect and test concrete samples per ACI 318 Section 26.12 but not fewer than three cylinders for each day's pour. As a minimum, perform compression tests on two cylinders at twenty-eight days.
CONCRETE AND EVALUATION OF CONCRETE STRENGTH	ICC-RCSI	PERIODIC	Measure slump (ASTM C143), temperature (ASTM C1064), weight (ASTM C138 for normal-weight and C567 for lightweight), and air content (ASTM C173 for normal-weight and C231 for lightweight) for all concrete sampled for strength. For pumped concrete, measure at point of deposit.
CONCRETE PLACEMENT	ICC-RCSI	CONTINUOUS	Inspect concrete placement procedures for conformance to ACI 318, Sections 26.5.2, and Contract Documents.
CURING AND PROTECTION	ICC-RCSI	CONTINUOUS	Inspect for maintenance of specified curing temperatures and techniques per ACI 318 Sections 26.5.3, 26.5.4, and 26.5.5, and Contract Documents.
EVALUATION OF CONCRETE STRENGTH	ICC-RCSI	CONTINUOUS	Test for conformance to specifications in accordance with ACI 318 Section 26.12 and IBC Section 1908.10.
PRESTRESSING OPERATIONS	ICC-PCSI	CONTINUOUS	Verify that prestressing forces in tendons are in conformance to Contract Documents.
		CONTINUOUS	Inspect for compliance with SER approved submittals and Contract Documents.
ASSEMBLED/ERECTED		CONTINUOUS	Review site storage and handling procedures for consistency with design of precast elements.
PRECAST ELEMENTS	ICC-RCSI	CONTINUOUS	Verify that SER approved erection drawings are on site and are being used for erection.
		CONTINUOUS	Verify that SER approved erection procedures are being followed. Review welder's certifications.
ERECTION AND CONNECTIONS FOR PRECAST ELEMENTS	ICC-RCSI	CONTINUOUS	Inspect shimming, bearing, bolting, and welding of connections.
		CONTINUOUS	Verify that existing reinforcing steel is not cut when drilling holes for dowels or anchors.
		CONTINUOUS	Inspect holes prior to installation of adhesive to verify that holes are free of dust and prepared in accordance with the manufacturer's instructions and have the embedment depth indicated on the Contract Documents.
ADHESIVE DOWELS	ICC-RCSI	CONTINUOUS	Verify that adhesive material is in accordance with the Contract Documents.
		CONTINUOUS	Verify that the material is stored, mixed, and injected in accordance with the manufacturer's instructions.
		CONTINUOUS	Verify that the dowel or anchor materials, lengths, diameters, embedments, and finishes are in accordance with the Contract Documents.
		PERIODIC	Verify that existing reinforcing steel is not cut when drilling holes for anchors.
EXPANSION ANCHORS	ICC-SWSI	PERIODIC	Verify that existing reinforcing steel is not cut when drilling holes for anchors. Inspect installation. Verify manufacturer, type, diameter, material, markings,

Inspect installation. Verify manufacturer, type, diameter, material, markings, seating of washer, embedment and torque of anchors are in accordance with the

Contract Documents.

	AST-IN-PLACE	CONCRETE-IR	C 2015 SECTION 1705.3
ITEM	AGENCY	INSPECTION FREQUENCY	SCOPE
FORMWORK GEOMETRY	ACI-CCSI/ICC-RCSI	PERIODIC	Inspect formwork for shape, location, dimensions, and finishes of the concrete member being formed and for conformance to the Contract Documents and ACI 301 Section 2 and ACI 318 Sections 6.1, 6.3, and 6.4.
MIX DESIGN	ACI-CCSI/ICC-RCSI	CONTINUOUS	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
		PERIODIC	Review in-plant all materials, manufacturer's certifications, and mill reports for conformance to Contract Documents.
MATERIAL CERTIFICATION	ACI-CCSI	PERIODIC	Maintain records of all material certificates and mill reports of all concrete mix constituent materials and steel reinforcement
DEINICODOEMENT		Section 3.3. Inspect size, spacial Contract Documents. Verify that	ement for compliance with ACI 318 Sections 7.3, 7.4, 7.5, 7.6, and 7.7 and ACI 30 ng, cover, positioning, and grade of reinforcing steel for compliance with the t bars are adequately tied and supported on chairs or bolsters. Inspect bar laps that reinforcing bars are free of form oil or other deleterious materials. Inspection
REINFORCEMENT INSTALLATION	ACI-CCSI/ICC-RCSI	PERIODIC	For slabs-on-grade, foundations, and walls
		PERIODIC	Inspect inserts and accessories.
WELDING OF REINFORCING	ACI-CCSI/ICC-RCSI	PERIODIC	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required. Verify that the reinforcing steel is ASTM A706 material.
		PERIODIC	Review plant quality control procedures for material storage and handling to ensure compliance with ACI 301 Sections 4.1.3, 7.1, and 7.2.
		PERIODIC	Review that plant procedures for establishing mix design strength to ensure compliance with ACI 301 Sections 4.1 and 4.2 and with ACI 318 Sections 5.1, 5.2, 5.3, 5.4, and 5.8.
BATCHING PLANT	ACI-CCSI/ICC-RCSI	PERIODIC	Inspect plant to ensure compliance of mix constituents with the requirements of ACI 318 Chapter 3 and ACI 301 Sections 4.2 and 7.2.
		PERIODIC	Inspect that mixing and ready-mix equipment and vehicles comply with ACI 318 Sections 5.7 and 5.8 and with ASTM C 94.
		PERIODIC	Maintain records of all ready-mix truck contents and dispatch times.
	ACI-CCSI/ICC-RCSI	CONTINUOUS	Inspect size, grade, positioning, and embedment of anchor rods for conformance to Contract Documents prior to concrete placement.
ANCHOR RODS		PERIODIC	Inspect concrete placement and consolidation around anchors.
		CONTINUOUS	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
CONCRETE PLACEMENT	ACI-CCSI/ICC-RCSI	CONTINUOUS	Prior to allowing ready-mix trucks to deposit concrete, review batch-plant ticket to verify concrete mix compliance with project specifications, temperature, batching time, and number of mixing drum revolutions. Reject concrete that has been mixed for more than 90 min. or 300 drum revolutions.
		CONTINUOUS	Maintain records correlating concrete batching information with location of placement in the finished work. Inspect all concrete placements for compliance with ACI 318 Section 5.9 and 5.10; and ACI 301 Sections 5 and 7.3.
		CONTINUOUS	Inspect for conformance to all approved hot- and cold-weather concrete placement procedures.
SAMPLING AND TESTING OF	ACI-CFTT/ACI-STT	CONTINUOUS	Collect and test concrete samples per ACI 318 Section 5.6 (minimum of four cylinders for each 150 cu yd of concrete or 5,000 sq ft of slab or wall area placed), but not fewer than four cylinders for each day's pour.
CONCRETE	7.61 61 1177.61 61 1	CONTINUOUS	Measure slump (ASTM C143), temperature (ASTM C1064), weight, (ASTM C138), and air content (ASTM C173) for all concrete sampled for strength. For pumped concrete, measure at point of deposit.
CURING AND PROTECTION	ACI-CCSI/ICC-RCSI	CONTINUOUS	Inspect all placements for conformance to Contract Documents, ACI 318 Sections 5.11, 5.12, and 5.13 and to curing and protection procedures approved by SER
IN SITU CONCRETE STRENGTH	ACI-CCSI/ICC-RCSI	PERIODIC	Verify in situ concrete strength prior to removal of shores and forms from beams and structural slabs in accordance with ACI 318 Section 6.2.
LABORATORY EVALUATION OF CONCRETE STRENGTH	ACI-LTT	CONTINUOUS	Test for conformance to specifications in accordance with ACI 318 Section 5.6. As a minimum, perform compression tests on one cylinder at seven days and two cylinders at twenty-eight days.
		CONTINUOUS	Verify that existing reinforcing steel is not cut when drilling holes for dowels or anchors.
ADHESIVE DOWELS	ACI-CCSI/ICC-RCSI	CONTINUOUS	Inspect holes prior to installation of adhesive to verify that holes are free of dust and prepared in accordance with the manufacturer's instructions and have the embedment depth indicated on the Contract Documents.
		CONTINUOUS	Verify that adhesive material is in accordance with the Contract Documents. Verify that the material is stored, mixed, and injected in accordance with the manufacturer's instructions.
		CONTINUOUS	Verify that the dowel or anchor materials, lengths, diameters, embedments, and finishes are in accordance with the Contract Documents.
		PERIODIC	Verify that existing reinforcing steel is not cut when drilling holes for anchors
EXPANSION ANCHORS	ICC-SMSI	PERIODIC	Inspect installation. Verify manufacturer, type, diameter, material, markings, seating of washer, embedment and torque of anchors are in accordance with the Contract Documents.
VAPOR BARRIER	ACI-CCSI/ICC-RCSI	PERIODIC	Inspect installation of subgrade vapor retarder for compliance with manufacturer' approved installation procedures and with Contract Documents.

WELDING NOTES FOR CONNECTING TO EXISTING STEEL CONSTRUCTION

THE GENERAL CONTRACTOR SHALL VERIFY THE ACCEPTABILITY OF EXISTING STEEL CONSTRUCTION TO ACCEPT WELDING AS PER THE FOLLOWING NOTES: SAMPLE EXISTING STEEL BY TAKING STEEL FILINGS, CORING OR CUTTING FROM 3 COLUMNS AND 6 BEAMS EVENLY DISTRIBUTED THROUGHOUT THE EXISTING BUILDING. NOTE: EXISTING STEEL SECTIONS TO BE DISCARDED ARE THE PREFERABLE LOCATION FOR SAMPLING.

- TEST THE STEEL SAMPLES TO DETERMINE THE CHEMICAL PROPERTIES FOR WELDABILITY.
- DETERMINE WELDABILITY BY DETERMINING THE CARBON EQUIVALENT. SUBMIT TO SER FOR REVIEW THE LABORATORY ANALYSIS REPORT LISTING THE QUANTITIES OF EACH ELEMENT. PREPARE A WELDING PROCEDURE SPECIFICATION PER AWS D1.1 . THIS SHALL INCLUDE FILLER METAL PROPERTIES, ELECTRODE TYPES, AND PREHEAT
- PROVIDE STEEL YIELD STRENGTH TEST RESULTS

				2015 SECTION 1705.2, 16, CHAPTER N
ete I ACI	ITEM	AGENCY	INSPECTION FREQUENCY	SCOPE
sign.			PERIODIC	Inspect fabrication and fabricated steel during two separate plant visits scheduled at beginning of fabrication and at approx. 80% complete, or as directed by the RDP
			PERIODIC	Review plant quality control procedures.
for	FABRICATOR CERTIFICATION /		PERIODIC	Inspect plant storage and handling procedures.
nix	QUALITY CONTROL PROCEDURES	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Confirm that approved submittals are in the plant and are being used for fabrication.
CI 301 ps			PERIODIC	Review welder's certifications.
etion			PERIODIC	File welder certifications and any other quality assurance documentation as required by the building department.
			PERIODIC	Review prequalification test report for the shop coat of paint applied to slip critical connections to comply with Class A or B per RCSC Specification as required.
teel.				ation requirements will be waived if the structural steel fabricator is certified by the instruction's Quality Certification Program for Structural Steel Fabricators and the this certification.
	MATERIAL CERTIFICATION	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Review mill test reports, certificates, and identification markings of all structural steel, bolts, nuts, and washers for compliance with the ASTM Specifications required by the Contract Documents and by AISC LRFD Specification Section A3.
.1,			PERIODIC	Inspect certificates of weld filler material for compliance with the AWS Specifications required by the Contract Documents and by AISC LRFD Specification Section A3.
s of			PERIODIC	Prior to releasing containers of fastener assembly components for incorporation into the work, verify bolt, nut, and washer diameters and material grades for compliance with the Contract Documents requirements.
318			PERIODIC	Inspect a random sample of at least 25% of all bolts in bearing-type, snug-tightened connections. Verify that the plies of the connection are in firm contact.
nance	BOLTING	AWS/AISC-SSI/ICC-SWSI	AS NOTED	Observe and report the method used to achieve bolt tension. Inspect a random sample of at least 25% of all bolts in pretensioned connections. All inspections shall be made per the RCSC Specification. The required quantities of bolts to be inspected may be modified at the discretion of the SER. Inspection of pretensioning using twist-off-type bolts or turn-of-the-nut method with match-marking shall be periodic. Inspection of pretensioning using the calibrated wrench method or turn-of-the-nut method without match marking shall be continuous.
cket to ching			PERIODIC	For bolts to be pretensioned, prior to the start of work field test no fewer than three complete fastener assemblies of each combination of diameter, length, grade, and lot with a tension calibrator. Testing shall follow the procedure to be used in the work. Verify that the pretensioning method develops a pretension that is equal to or greater than 1.05 times the pretension specified in Table 8.1 of the RCSC bolt specification. The number of tests required may be increased at the discretion of the SER or inspector.
n			CONTINUOUS	Inspect wrench calibration procedures on daily basis (if applicable).
ance			PERIODIC	Perform weld inspections and tests per Chapter 6 of AWS D1.1.
ır			PERIODIC	Perform visual inspections of all welds for conformance with the contract documents and erection drawings with the applicable visual inspection requirements of AWS D1.1. Verify size and length of fillet welds. Inspect pre-heat, post-heat and surface preparation between passes. Review with SER scope of visual inspection as work progresses.
			FREQUENCY OF TESTIN	IG BY ULTRASONIC OR MAGNETIC PARTICLE TESTING METHODS OF OTHER WELDS AS FOLLOWS:
For	WELDING	AWS-CWI/ASNT	PERIODIC	5% of partial penetration groove welds
oved			CONTINUOUS	10% of all other welds including deck and floor plate welds
eams			CONTINUOUS	100% of all complete joint penetration walls, multi-pass fillet welds, and single-pass fillet welds greater than 5/16 in.
5.6. nd two			CONTINUOUS	100% of all remade welds
or			TBD	Additional inspection as determined by inspector and/or SER if defects are revealed
dust			PERIODIC	Inspect member sizes, milled surfaces, and installation and connection details for compliance with approved shop drawings and with Contract Documents.
he	STRUCTURAL FRAMING, DETAILS AND ASSEMBLIES	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Verify columns are plumb within AISC tolerances.
			PERIODIC	Verify columns and beams have correct piece marks and are located and oriented per appropriate drawings.
and			PERIODIC	Review mill reports for all deck material delivered to the site.
3			PERIODIC	Verify gauge, width, and type (profile) of deck for conformance to approved shop drawings and with Contract Documents.
s, th the	METAL DEOK	ANNOVALOG COLUCO CIMOL	PERIODIC	Verify welder certifications.
turer's	METAL DECK	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Inspect placement for proper installation of approved screws, puddle welds, other mechanical fasteners (if any), and accessories for compliance with SDI, AWS D1.3, and the Contract Documents.
			PERIODIC	Inspect placement of deck reinforcement at openings and other discontinuities for compliance with approved shop drawings and with Contract Documents.
			PERIODIC	Inspect repair of damaged galvanized finish for compliance with Contract Documents.
			CONTINUOUS	Inspect shear connectors per AWS D1.1 Chapter 7.
	FIELD-INSTALLED SHEAR	AWS/AISC-SSI/ICC-SWSI	CONTINUOUS	Daily Preproduction Testing: per AWS D1.1 Section 7.7 except that five studs are to be tested and that the studs are to be capable of bending 45° from vertical without weld failure.
	CONNECTORS		CONTINUOUS	Verify location, diameter, and quantity of connectors. Verify that the installation is in compliance with AWS D1.1 Chapter 7. Verify that the ferrules are removed.

	REFERENCES
CODE/STANDARD	TITLE
ACI 301-10	Standard Specifications for Structural Concrete.
ACI 318-14	Building Code Requirements for Structural Concrete
AISC 360-10	Specification for Structural Steel Buildings
ASTM A6-14	Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use.
ASTM A568-14	Specification for Steel Sheet, Carbon and High-Strength, Low-Alloy, Hot-Rolled and Cold Rolled, General Requirements For
ASTM C31-12	Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C94-14b	Specification for Ready-Mixed Concrete
ASTM C109-13	Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimens)
ASTM C138-14	Test Method for Unit Weight, Yield and Air Content (Gravimetric) of Concrete
ASTM C143-12	Test Method for Slump of Hydraulic Cement Concrete.
ASTM C172-14a	Practice for Sampling Freshly Mixed Concrete
ASTM C173-14	Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.
ASTM C231-14	Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C567-14	Test Method for Unit Weight of Structural Lightweight Concrete
ASTM C1064-12	Test Method for Temperature of Freshly Mixed Portland Cement Concrete
ASTM C1090-10	Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout
ASTM C1314-14	Test Method for Constructing and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Masonry
AWS D1.1-2010	Structural Welding Code – Steel
PPLICABLE BUILDING CODE	International Building Code 2015
RCSC-2009	Specification for Structural Joints Using High Strength Bolts

CONTINUOUS

Inspection of production stud: Ring test all shear connectors with a 3 lb hammer. Bend test a minimum of two studs at one-third points along each beam to 45° using a

hammer. If a failure occurs, every stud on the structural member is to be tested.

Retest all studs that are replaced.

PERKINS

Boston, MA 02110 t 617.478.0300 f 617.478.0321

www.perkinswill.com

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT 75 John Roberts Road, Suite 1A, South Portland ME 04106

Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC 99 Bedford Street, 2nd Floor, Boston MA 02111

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

CONSTRUCTION MANAGER **Turner Construction**

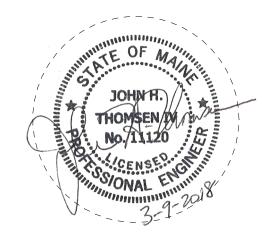
2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

COST ESTIMATOR D. G. Jones International 3 Baldwin Green Common, Suite 202, Woburn MA 01801

> PROJECT TITLE Visitor Garage **Expansion** 22 Bramhall Street

> > Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

GARAGE OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

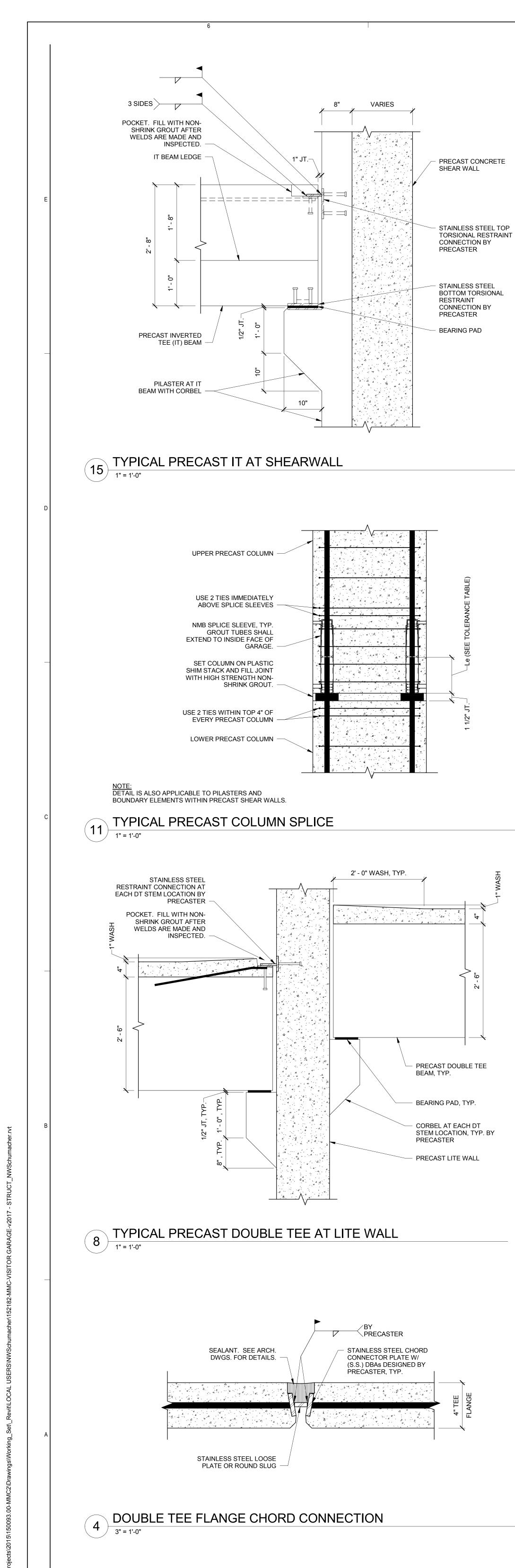
CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

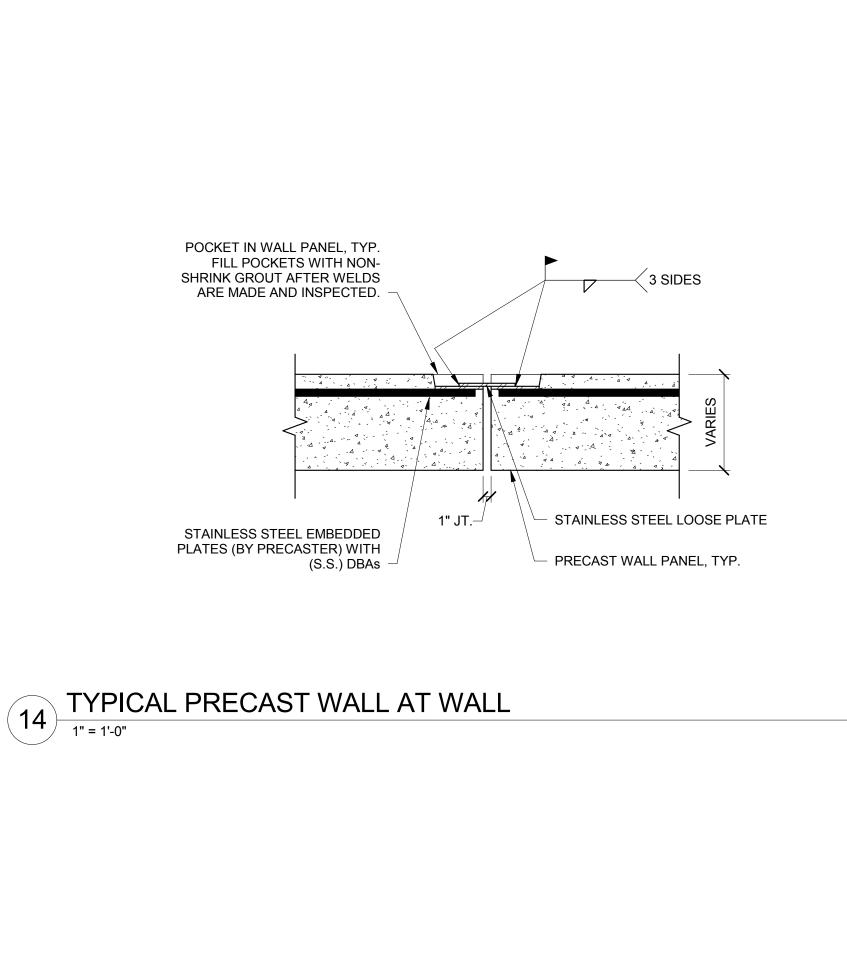
152182.000 Checked

> **STRUCTURAL TESTS AND INSPECTIONS**

> > SHEET NUMBER

S00-02





TOLERANCE TABLE - NMB SPLICE SLEEVE DIMENSIONS

SLEEVE SIZE DIAMETER (IN.) | SLEEVE (IN.) |

0.750

0.875

1.129

1.270

1.410

1.410

1.410

NOTES:

1. NMB SPLICE SLEEVE SIZE SHALL MATCH VERTICAL REINFORCEMENT SIZE IN LOWER

2. PRECAST FABRICATOR MAY UPSIZE NMB SPLICE SLEEVE BY UP TO TWO BAR SIZES TO

3. PRECAST FABRICATOR MAY ELECT TO USE SMALLER DIAMETER TIES AT A TIGHTER SPACING

-1" JOINT

7 TYPICAL PRECAST DOUBLE TEE AT SHEAR WALL
1" = 1'-0"

SEALANT. SEE ARCH.

DWGS. FOR DETAILS.

STAINLESS STEEL LOOSE

PLATE OR ROUND SLUG

DOUBLE TEE FLANGE SHEAR CONNECTION

10U-X

11U-X

A11W

INCREASE FIELD TOLERANCES.

VARIES. SEE PLAN.-

BACKER ROD AND

SEALANT. SEE ARCH. -

STAINLESS STEEL JVI PSA

EQUIVALENT) WITH VERTICAL

DETERMINED BY PRECASTER.

INSERT (OR APPROVED

SLOT. AMOUNT TO BE

(3) MIN. PER WALL

WHERE TIES ENCLOSE NMB SPLICE SLEEVES.

CONNECTING ELEMENT.

NMB SPLICE NOMINAL BAR OF SPLICE INTO SPLICE SLEEVE

INSIDE EMBEDMENT LENGTH

(IN.), Le

 4.53 ± 0.39

 5.32 ± 0.39

6.11 ± 0.39

 6.99 ± 0.49

 7.88 ± 0.47

8.66 ± 0.47

 9.45 ± 0.47

8.86 ± 0.59

 8.96 ± 0.69

PRECAST SHEAR WALL

PRECAST DOUBLE TEE BEAM

- 2'-0" x 1" TALL WASH AT LOW

ENDS OF DT BEAMS

STAINLESS STEEL

WITH (S.S.) DBAs

AND HCAs

- STRAP PLATE

- FLANGE REINFORCEMENT BY

- STAINLESS STEEL JVI VECTOR

PRECASTER, BUT SHALL NOT

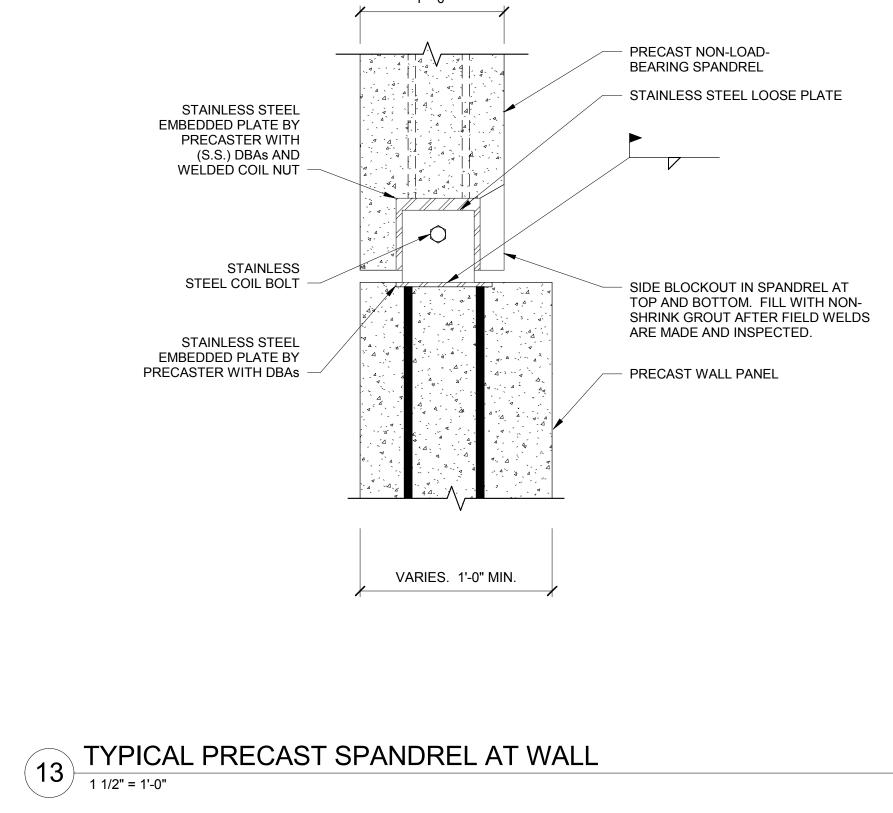
BE DETERMINED BY

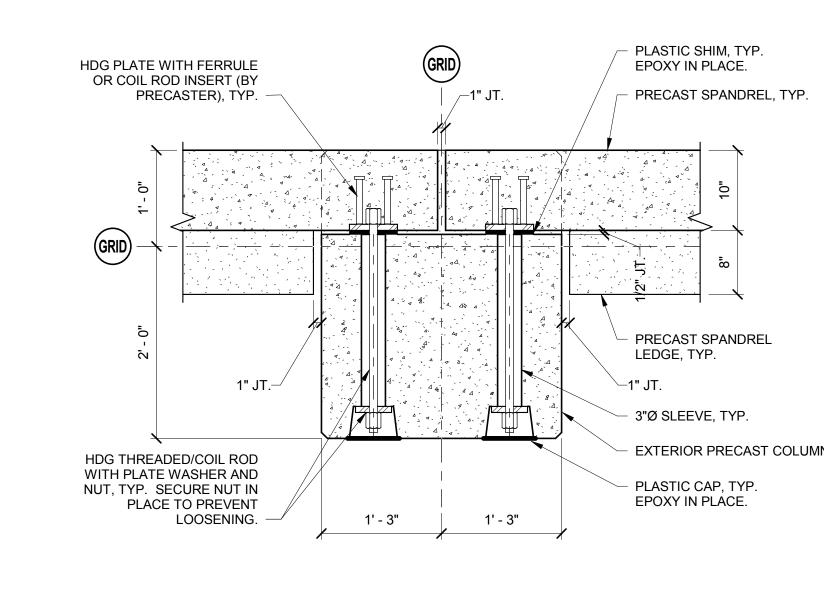
CONNECTOR, TYP. SPACING TO

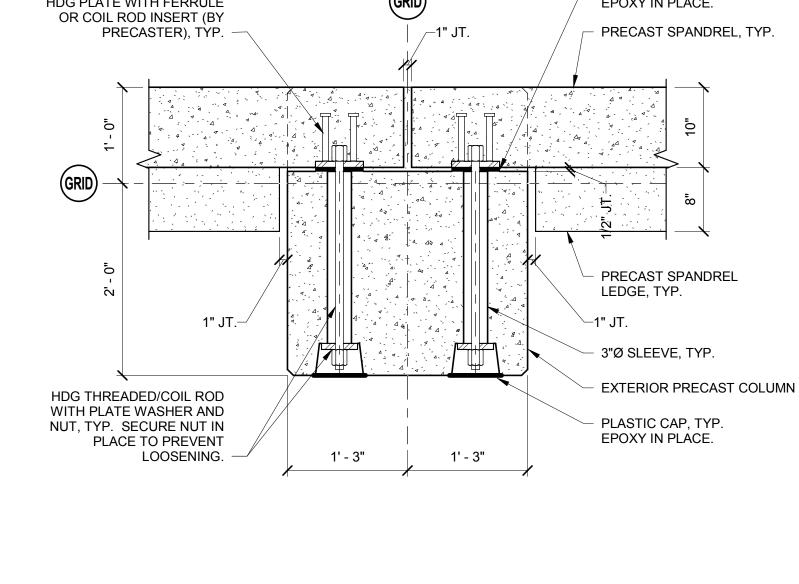
PRECASTER, TYP.

EMBEDDED PLATE

DIAMETER OF FIELD DOWEL









EMBEDDED PLATE (HDG) FOR

HANDRAIL POST CONNECTION. SEE

ARCH. FOR DETAILS. PRECASTER

SHALL PROVIDE ADEQUATE PLATE

LENGTH (1'-0" MIN.) TO ALLOW FOR

INSTALLATION TOLERANCE OF

PRECAST NON-LOAD-BEARING

PRECAST DOUBLE TEE BEAM

— 2'-0" x 1" TALL WASH AT LOW

ENDS OF DT BEAMS

- STAINLESS STEEL 💒

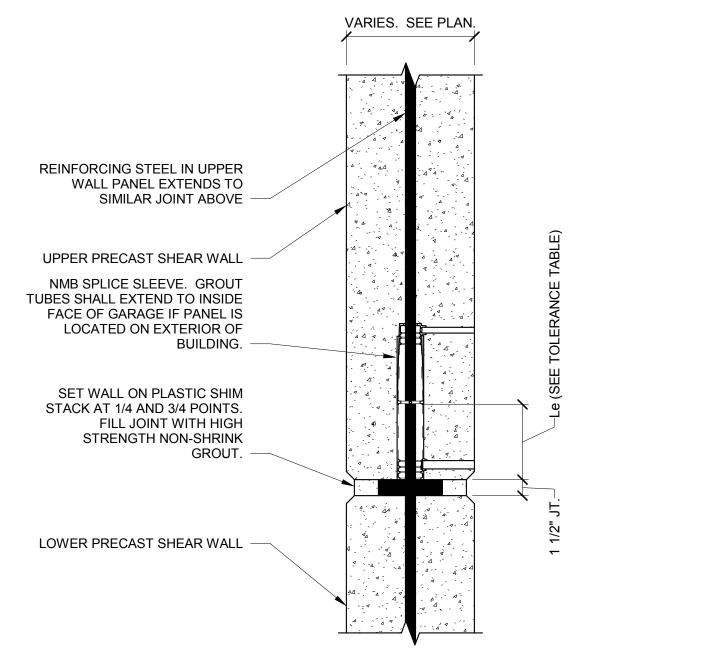
- STRAP PLATE

EMBEDDED PLATE WITH

(S.S.) DBAs AND HCAs

HANDRAIL.

SPANDREL



-1" JOINT

6 TYPICAL PRECAST DOUBLE TEE AT NON-LOAD-BEARING SPANDREL

1/2" JOINT-

CLOSED CELL BACKER
 ROD AND SEALANT
 SEE ARCH. DWGS. FOR

DETAILS.

TYPICAL PRECAST SHEARWALL SPLICE

1" = 1'-0"

SEE ARCH. DWGS. FOR

THIN BRICK, DRAFT,

AND REVEAL DETAILS

BACKER ROD AND

SEALANT. SEE ARCH.

STAINLESS STEEL JVI PSA

VERTICAL SLOT. SPACING

TO BE DETERMINED BY

PRECASTER BUT NO

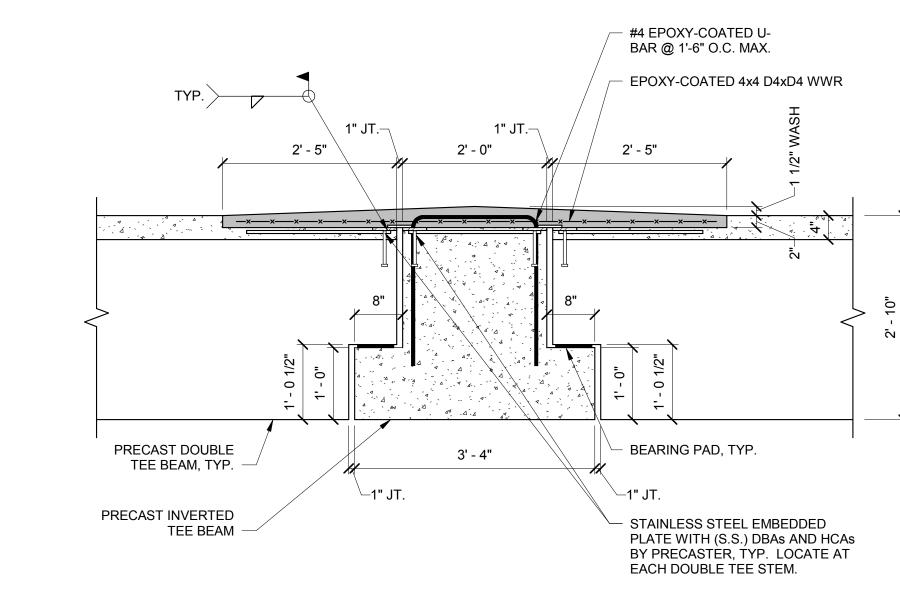
MORE THAN 5'-0" O.C.

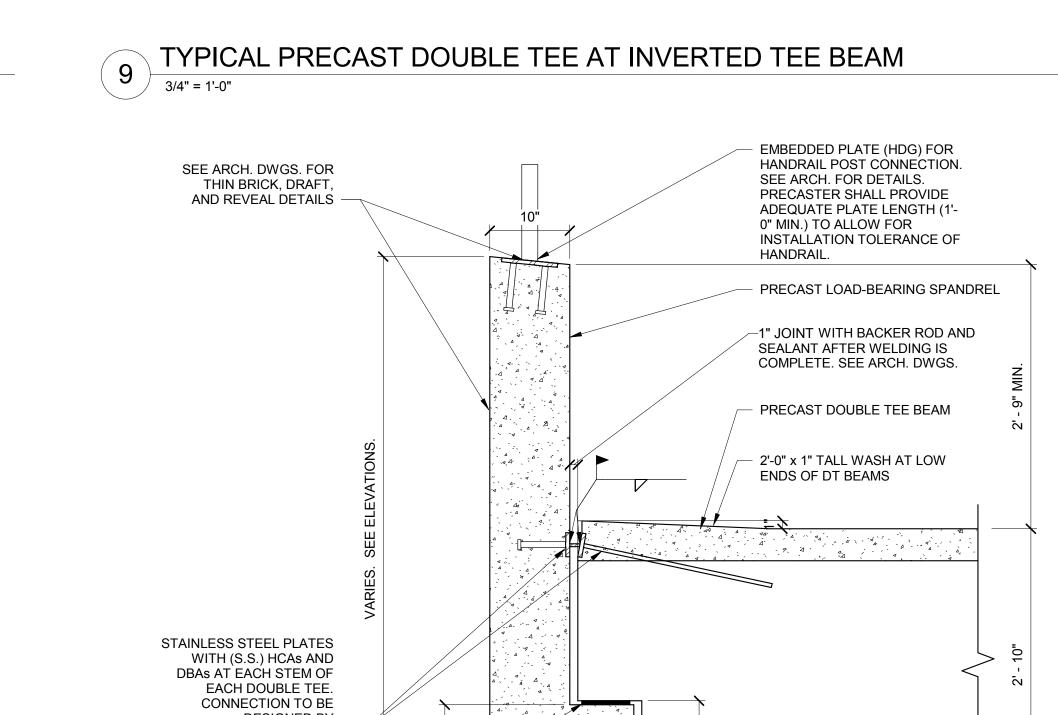
1/4" ROUND DRIP EDGE

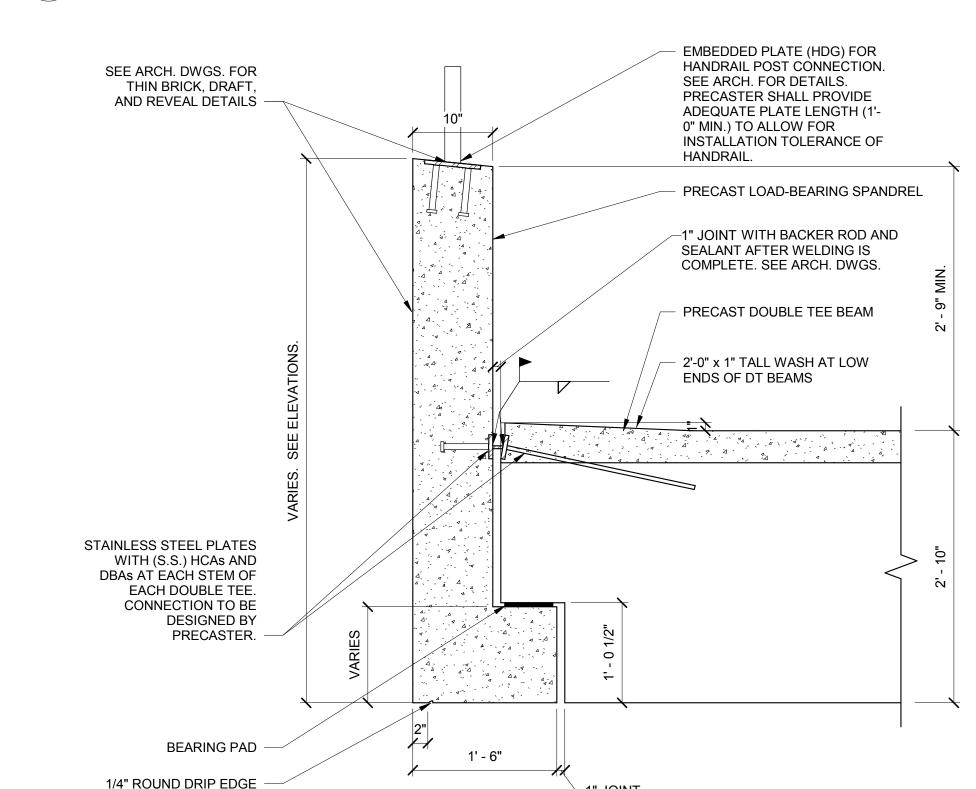
2 TYPICAL TEE TO TEE JOINT
6" = 1'-0"

INSERT (OR APPROVED

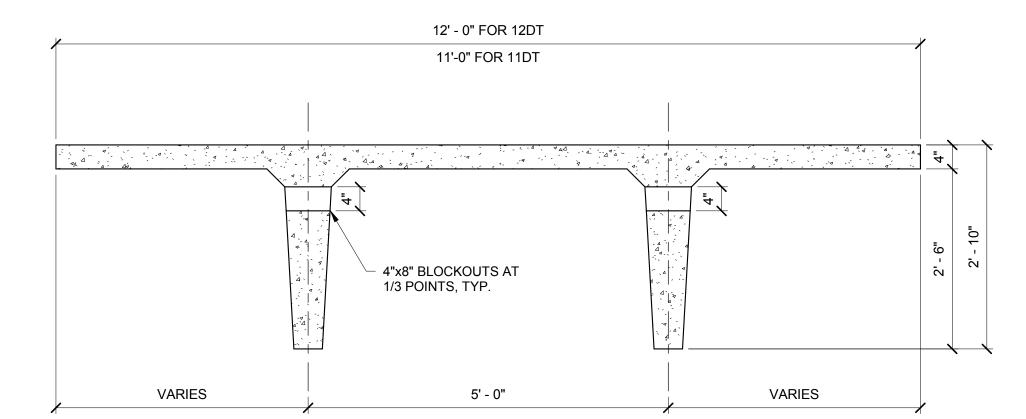
EQUIVALENT) WITH



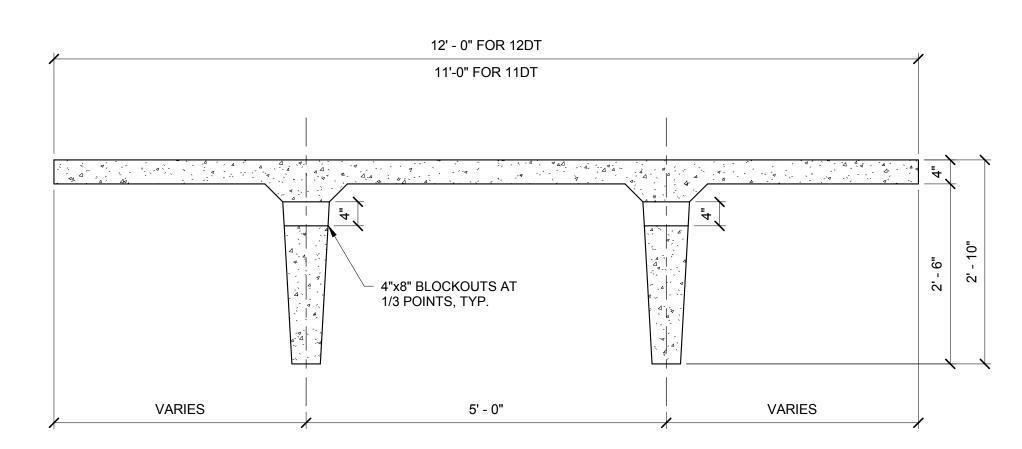












3/4" = 1'-0"

TYPICAL PRECAST CONCRETE **DETAILS**

SHEET NUMBER

152182.000

NWS

S00-10

PERKINS

Maine Medical Center

225 Franklin Street, Suite 1100

MaineHealth

CONSULTANTS

Sebago Technics

Waltham MA 02453

MEPFP ENGINEER/ CODE AKF Group LLC

CONSTRUCTION MANAGER

Turner Construction

ELEVATOR CONSULTANT

COST ESTIMATOR

D. G. Jones International

PROJECT TITLE

KEY PLANS

PROJECT KEY PLAN

GARAGE

OVERALL KEY PLAN

1 - NOT USED

2 - CONGRESS STREET

3 - VISITOR GARAGE

4 - EAST TOWER

5 - CENTRAL UTILITY PLANT

6 - BEAN BUILDING

7 - RICHARDS BUILDING

CONSTRUCTION DOCUMENT SET

SEPTEMBER 29, 2017

Checked

Visitor Garage

Expansion

22 Bramhall Street

Portland, ME 04102

CIVIL/ LANDSCAPE ARCHITECT

75 John Roberts Road, Suite 1A,

Simpson Gumpertz & Heger Inc.

41 Seyon Street, Building 1, Suite 500,

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

99 Bedford Street, 2nd Floor, Boston MA 02111

2 Seaport Lane, Suite 200, Boston MA 02210

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA

3 Baldwin Green Common, Suite 202, Woburn MA 01801

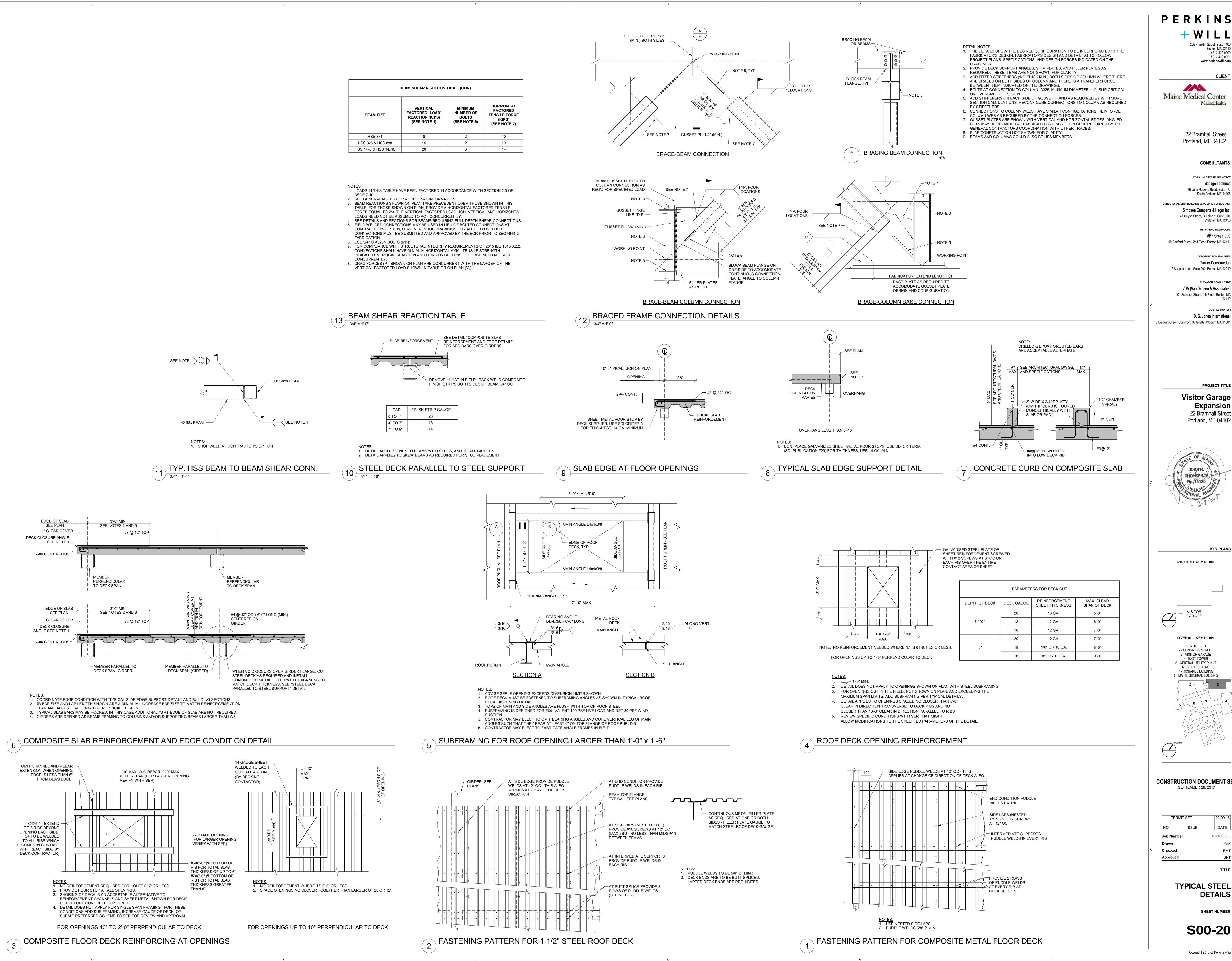
South Portland ME 04106

22 Bramhall Street

Portland, ME 04102

Boston, MA 02110

t 617.478.0300 f 617.478.0321 www.perkinswill.com



PERKINS

225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300

f 617.478.0321

www.perkinswill.com

Maine Medical Center MaineHealth

> 22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC

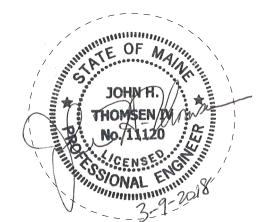
> CONSTRUCTION MANAGER **Turner Construction** 2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

COST ESTIMATOR D. G. Jones International

PROJECT TITLE **Visitor Garage Expansion** 22 Bramhall Street

Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

GARAGE

OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

	PERMIT SET	03.09.18		
NO	ISSUE	DATE		
Job	Number	152182.000		
Drav)rawn K			
Checked [
	roved	JHT		

TYPICAL STEEL **DETAILS**

TITLE

SHEET NUMBER

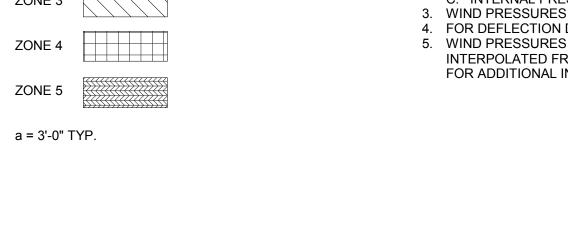
S00-20

EAST STAIR TOWER SOUTH ELEVATION

1/4" = 1'-0"

					TABLE A -	EAST STAIR TO	OWER WALL P	RESSURES					
	HEIGHT ABOVE			ZOI	NE 4					ZO	NE 5		
	GRADE	PRESSURE (PSF)			SUCTION (PSF)		PRESSURE (PSF)		SUCTION (PSF)				
LEVEL	z (FT)	≤ 20 SF	60 SF	100 SF	≤ 20 SF	60 SF	100 SF	≤ 20 SF	60 SF	100 SF	≤ 20 SF	60 SF	100 SF
ROOF	91	59.1	53.5	50.9	-59.1	-55.4	-53.7	59.1	53.5	50.9	-108.4	-93.5	-86.5
(N) LEVEL 2	80	57.8	52.4	49.8	-59.1	-55.4	-53.7	57.8	52.4	49.8	-108.4	-93.5	-86.5
(N) LEVEL 1	70	56.5	51.2	48.7	-59.1	-55.4	-53.7	56.5	51.2	48.7	-108.4	-93.5	-86.5
(E)/(N) GROUND	60	55.0	49.9	47.5	-59.1	-55.4	-53.7	55.0	49.9	47.5	-108.4	-93.5	-86.5

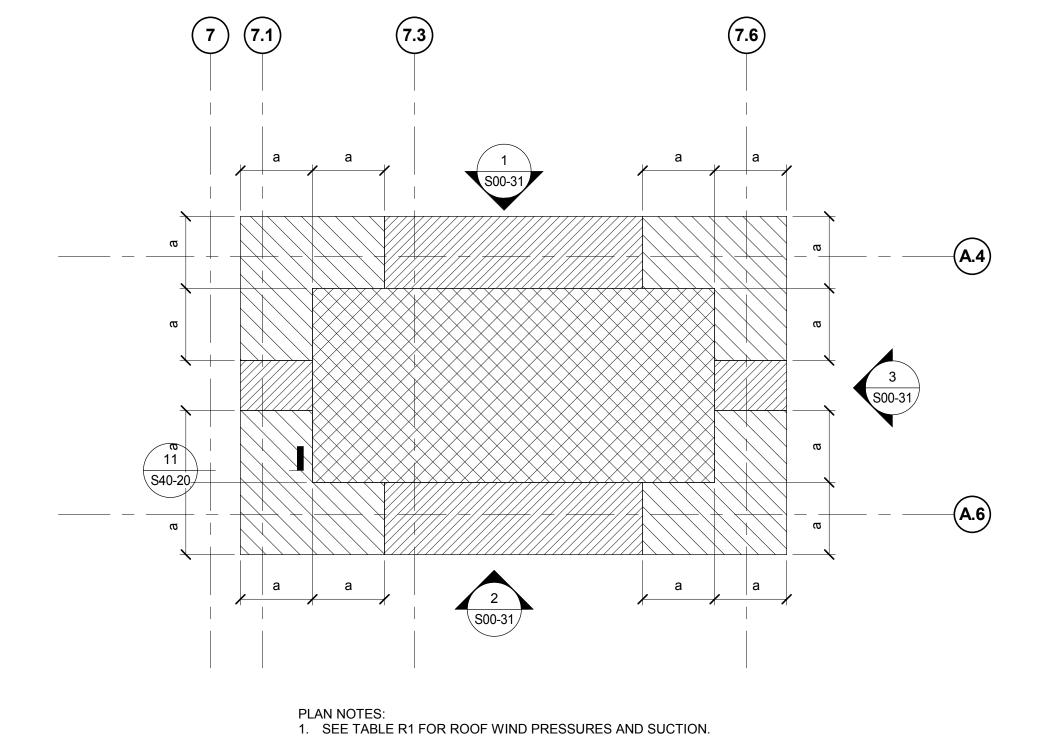
	ZONE 1		ZOI	NE 2	ZONE 3		
AREA	SUCTION (PSF)	PRESSURE (PSF)	SUCTION (PSF)	PRESSURE (PSF)	SUCTION (PSF)	PRESSURE (PSF)	
≤10 SF	-86.5	19.2	-135.8	19.2	-185.1	19.2	
60 SF	-74	19.2	-118.2	19.2	-162.5	19.2	
100 SF	-70.4	19.2	-113.2	19.2	-156.1	19.2	



ZONE KEY:

COMPONENTS AND CLADDING PRESSURE AND SUCTION NOTES:

1. COMPONENT AND CLADDING WIND CRITERIA IS BASED ON FM GLOBAL REQUIREMENTS FOR THE PROJECT REFERENCED IN "FM GLOBAL PROPERTY LOSS" PREVENTION DATA SHEETS 1-28 - WIND DESIGN" 2. WIND LOAD PARAMETERS: A. BASIC STRENGTH DESIGN WIND SPEED (3 SECOND GUST), Vdes 130 MPH (RISK CATEGORY IV) C. INTERNAL PRESSURE COEFFICIENT 3. WIND PRESSURES AND SUCTIONS SHOWN HERE ARE FOR STRENGTH DESIGN. 4. FOR DEFLECTION DESIGN, IN ACCORDANCE WITH IBC 2015 TABLE 1604.3, STRENGTH DESIGN WIND PRESSURES AND SUCTIONS MAY BE SCALED BY 0.42. 5. WIND PRESSURES AND SUCTIONS ON COMPONENTS AND CLADDING ELEMENTS WITH AFFECTIVE AREAS OTHER THAN SHOWN HERE MAY NOT BE LINEARLY INTERPOLATED FROM THE VALUES SHOWN HERE. FOR AFFECTIVE AREAS BETWEEN THOSE SHOWN, USE THE HIGHER PRESSURE VALUE. SEE ASCE7-10 FOR ADDITIONAL INFORMATION.



1	EAST STAIR TOWER ROOF
4	1/4" = 1'-0"

- - - - - - - (N) LEVEL 1 153' - 5 1/4"

CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

PERKINS

Maine Medical Center

225 Franklin Street, Suite 1100

MaineHealth

CONSULTANTS

Sebago Technics

Waltham MA 02453

MEPFP ENGINEER/ CODE AKF Group LLC

CONSTRUCTION MANAGER **Turner Construction**

ELEVATOR CONSULTANT

COST ESTIMATOR

PROJECT TITLE

Expansion

KEY PLANS

PROJECT KEY PLAN

VISITOR GARAGE

OVERALL KEY PLAN

1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

22 Bramhall Street Portland, ME 04102

Visitor Garage

D. G. Jones International

CIVIL/ LANDSCAPE ARCHITECT

75 John Roberts Road, Suite 1A, South Portland ME 04106

Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500,

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

99 Bedford Street, 2nd Floor, Boston MA 02111

2 Seaport Lane, Suite 200, Boston MA 02210

3 Baldwin Green Common, Suite 202, Woburn MA 01801

VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

22 Bramhall Street Portland, ME 04102

Boston, MA 02110 t 617.478.0300 f 617.478.0321 www.perkinswill.com

Job Number 152182.000 Checked

CLADDING WIND LOADS

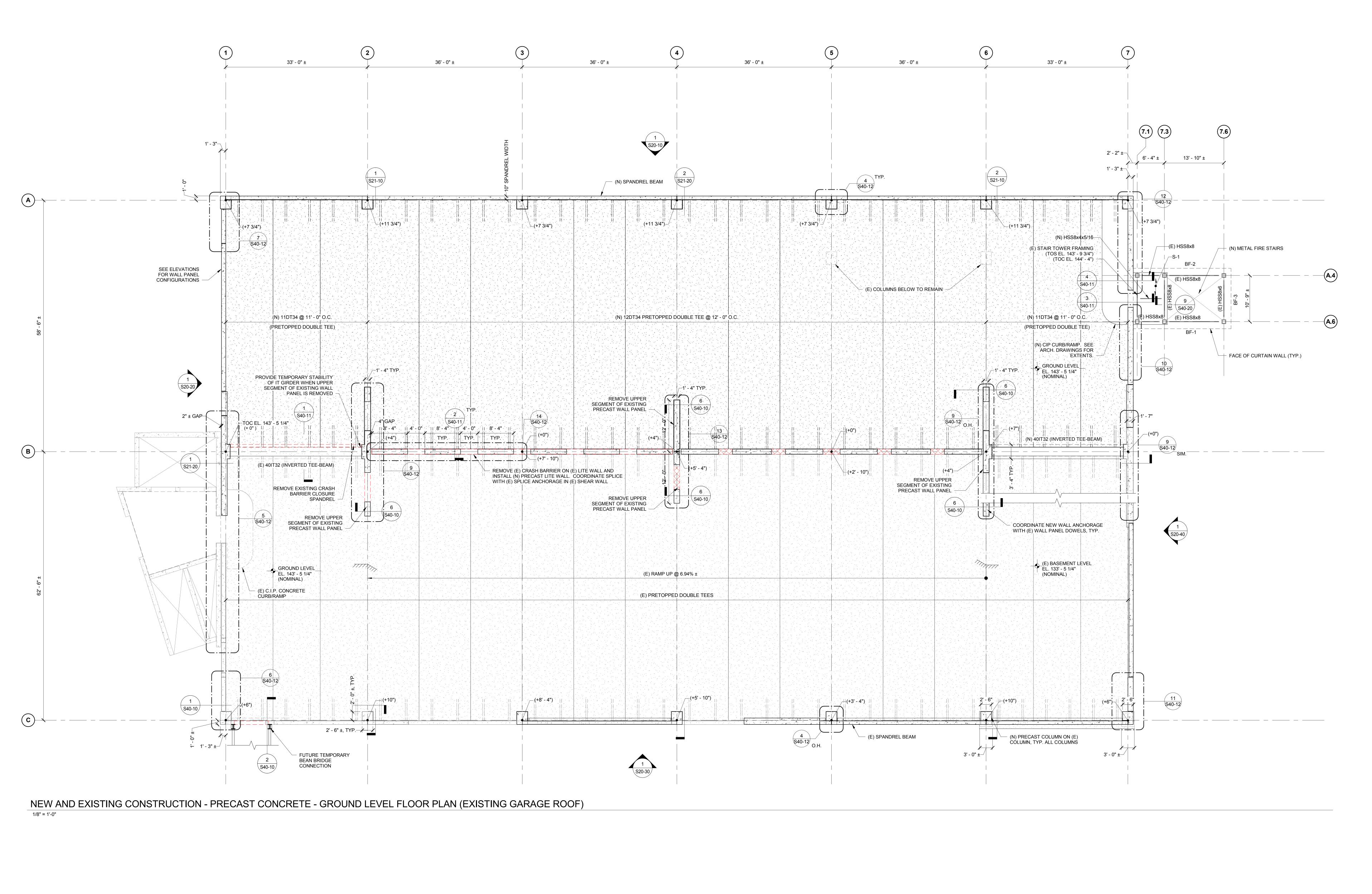
S00-31

SHEET NUMBER

3 EAST STAIR TOWER EAST ELEVATION

1/4" = 1'-0"

1 EAST STAIR TOWER NORTH ELEVATION
1/4" = 1'-0"



ISOMETRIC VIEW - GROUND LEVEL

PERKINS

+ WILL

225 Franklin Street, Suite 1100
Boston, MA 02110

Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

Waltham MA 02453

MEPFP ENGINEER/ CODE

AKF Group LLC

99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction

2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT

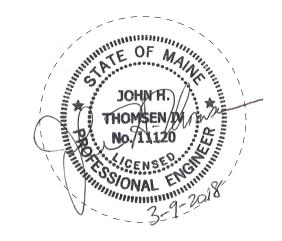
VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA
02110

COST ESTIMATOR

D. G. Jones International
3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

TRUE NORTH VISITOR GARAGE
OVERALL KEY PLAN

OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

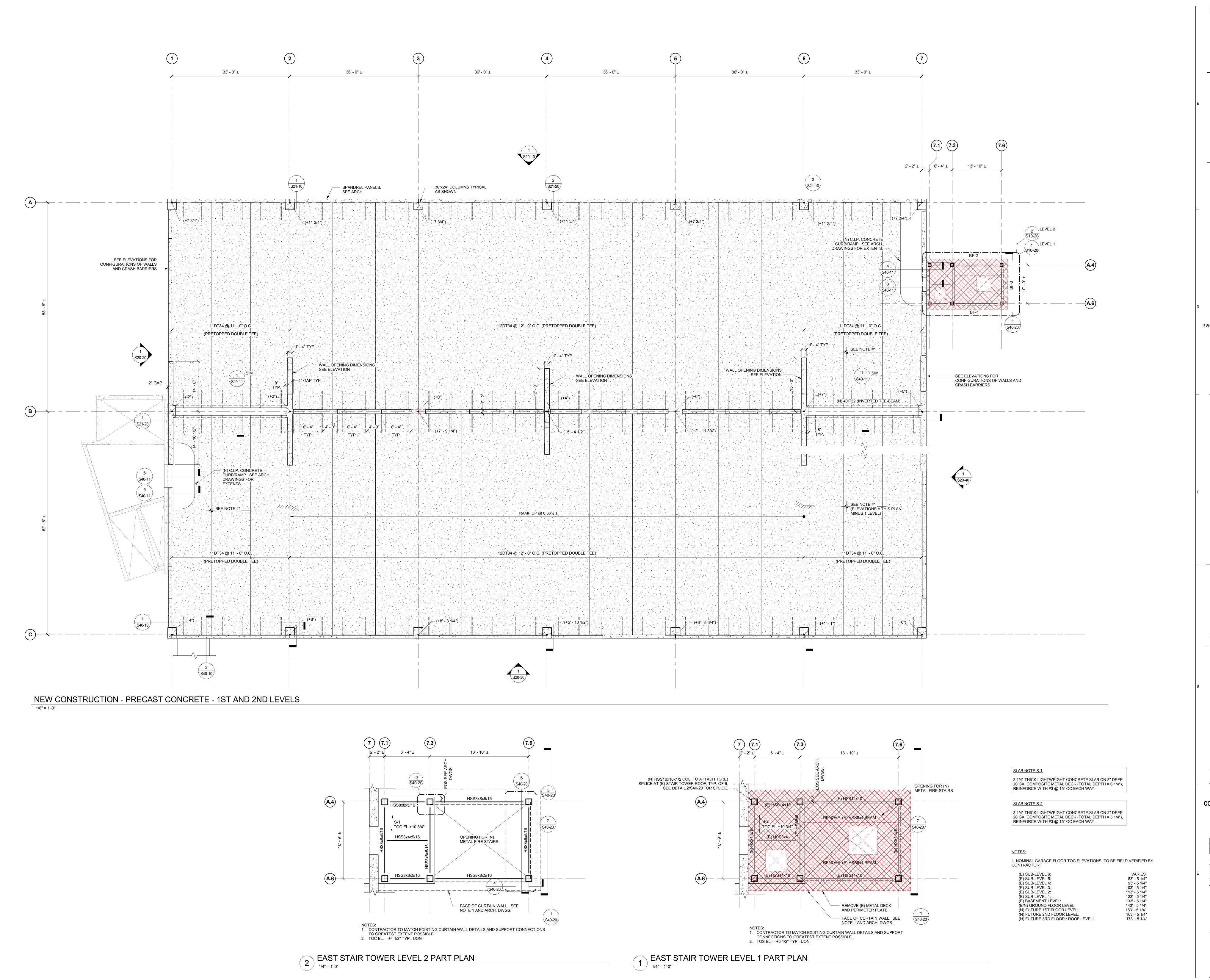
FLOOR PLAN -GROUND LEVEL

SHEET NUME

S10-10

Copyright 2018 @ Perkins + Will

3/9/2018 2:34:24 PM



PERKINS

+ WILL

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics
75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,

Waltham MA 02453

MEPFP ENGINEER/ CODE

AKF Group LLC

99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction

2 Seaport Lane, Suite 200, Boston MA 02210

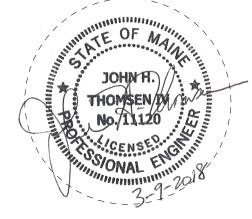
ELEVATOR CONSULTANT

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA
02110

D. G. Jones International
3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

TRUE NORTH VISITOR GARAGE

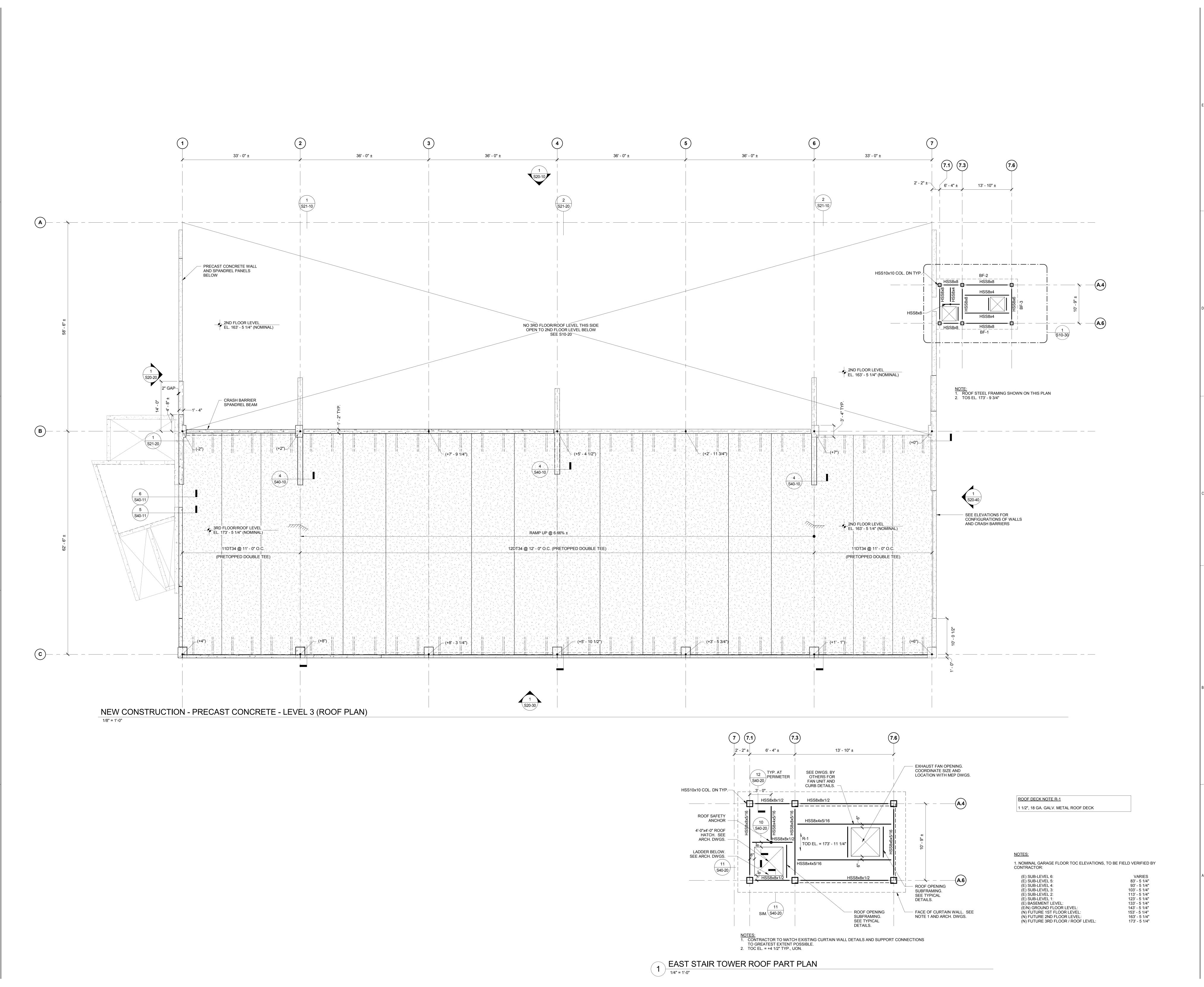
OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

> FLOOR PLAN -LEVEL 1 AND 2

> > \$10-20



PERKINS 225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321 www.perkinswill.com

22 Bramhall Street Portland, ME 04102

CONSULTANTS CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106

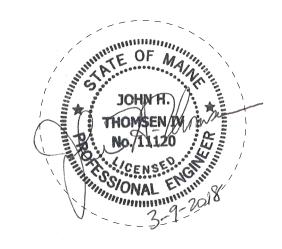
STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC 99 Bedford Street, 2nd Floor, Boston MA 02111

> CONSTRUCTION MANAGER **Turner Construction** 2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

D. G. Jones International 3 Baldwin Green Common, Suite 202, Woburn MA 01801

> PROJECT TITLE Visitor Garage Expansion 22 Bramhall Street Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

VISITOR GARAGE **OVERALL KEY PLAN**

1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

Approved		JHT	
Checked		BMT	
Job Number Drawn		152182.000 NWS	
	PERMIT SET	03.09.18	

FLOOR PLAN -LEVEL 3

SHEET NUMBER

S10-30

DEMOLISH/SAWCUT PORTION OF EXISTING WALL PANEL AS INDICATED.
 SEE ARCHITECTURAL DRAWINGS FOR THIN BRICK AND REVEALS IN PRECAST ELEMENTS.
 SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

NORTH WALL ELEVATION - GRID LINE "A"

1/8" = 1'-0"

PERKINS

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321

www.perkinswill.com

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.

41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE

AKF Group LLC
99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA

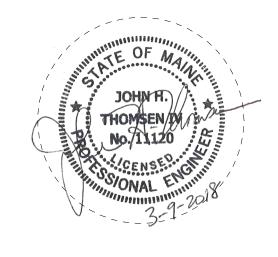
2 Seaport Lane, Suite 200, Boston MA 02210

COST ESTIMATOR

D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

OVERALL KEY PLAN

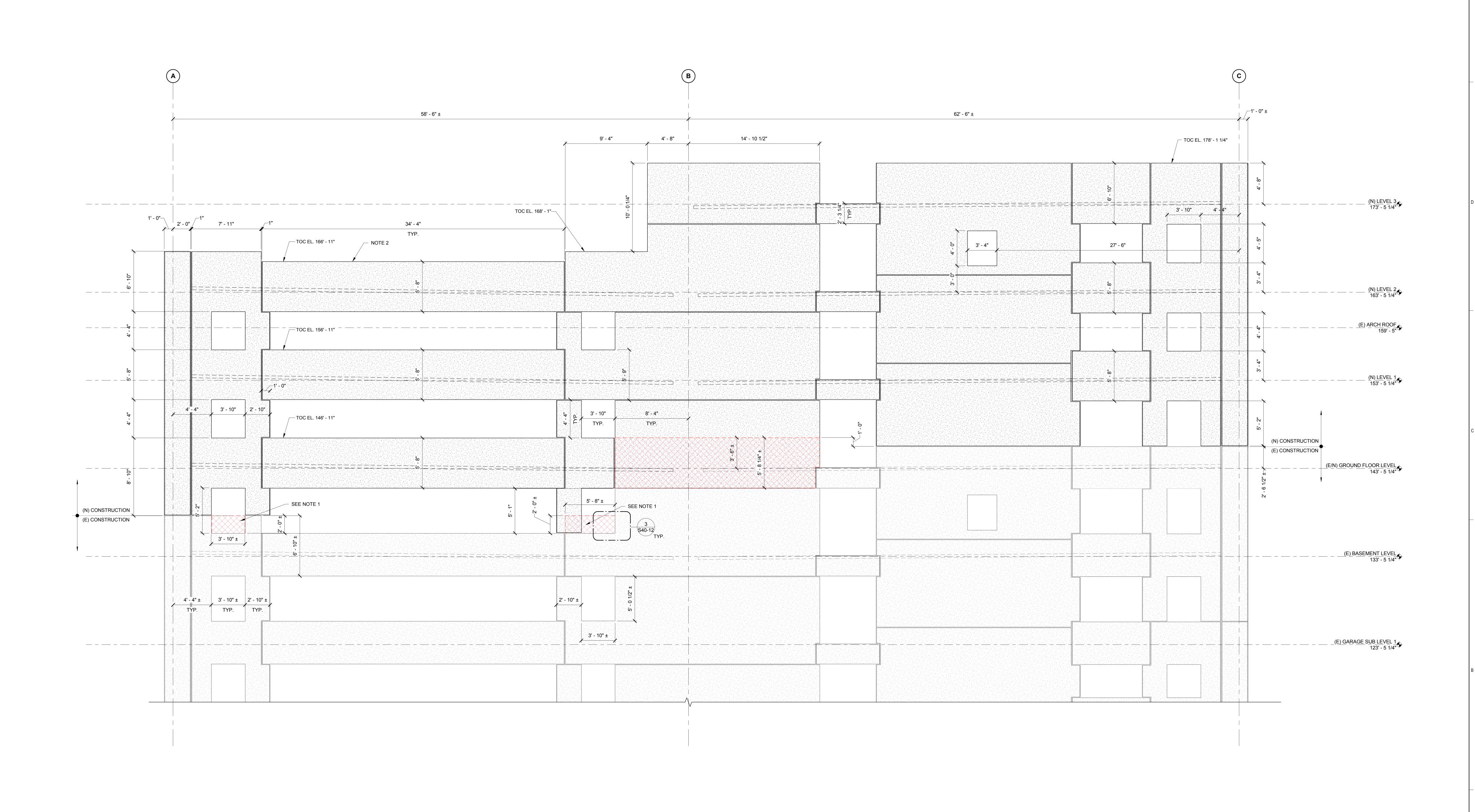
1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

NORTH ELEVATION

SHEET NUMBER

S20-10



DEMOLISH/SAWCUT PORTION OF EXISTING WALL PANEL AS INDICATED.
 SEE ARCHITECTURAL DRAWINGS FOR THIN BRICK AND REVEALS IN PRECAST ELEMENTS.
 SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

1 WEST WALL ELEVATION - GRID LINE "1"

PERKINS 225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321

Maine Medical Center

Maine Health

22 Bramhall Street Portland, ME 04102

CONSULTANTS

www.perkinswill.com

CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106

Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC 99 Bedford Street, 2nd Floor, Boston MA 02111

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

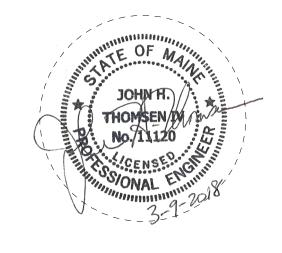
CONSTRUCTION MANAGER **Turner Construction** 2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

COST ESTIMATOR D. G. Jones International 3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage Expansion 22 Bramhall Street Portland, ME 04102

PROJECT TITLE



PROJECT KEY PLAN

OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

	TITLI
Approved	JH
Checked	BM
Drawn	NW
Job Number	152182.00
NO ISS	SUE DATE
PERMIT SET	03.09.18

WEST ELEVATION

SHEET NUMBER

S20-20

NOTES:
1. DEMOLISH/SAWCUT PORTION OF EXISTING WALL PANEL AS INDICATED.
2. SEE ARCHITECTURAL DRAWINGS FOR THIN BRICK AND REVEALS IN PRECAST ELEMENTS.
3. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

SOUTH WALL ELEVATION - GRID LINE "C"

1/8" = 1'-0"

PERKINS

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE
AKF Group LLC

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

99 Bedford Street, 2nd Floor, Boston MA 02111

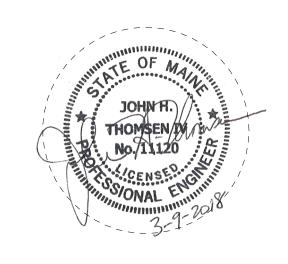
CONSTRUCTION MANAGER

Turner Construction
2 Seaport Lane, Suite 200, Boston MA 02210

VDA (Van Deusen & Associates)
101 Summer Street, 4th Floor, Boston MA
02110

D. G. Jones International
3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

TRUE NORTH VISITOR GARAGE
OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

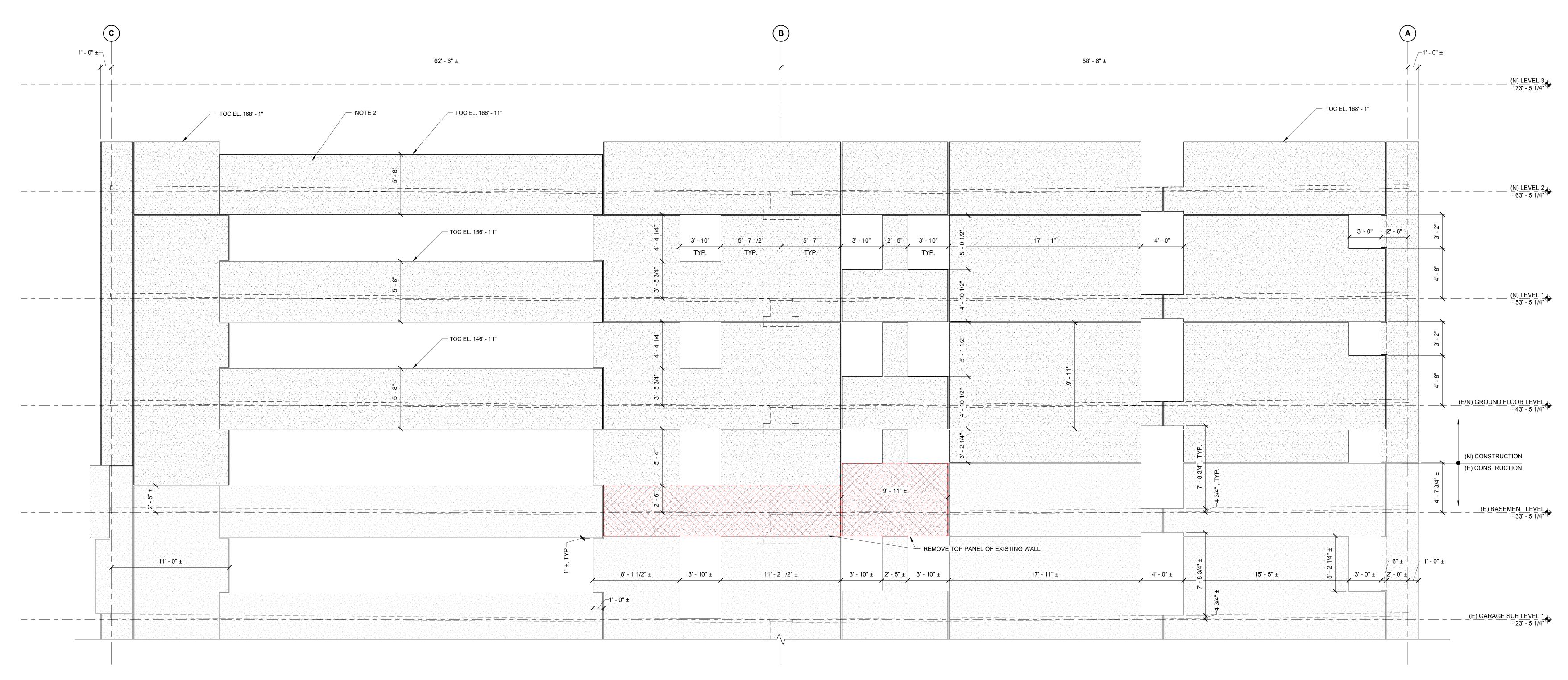
CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

SOUTH ELEVATION

SHEET NUMBER

Copyright 2018 @ Perkins + Will

S20-30



NOTES:
1. DEMOLISH/SAWCUT PORTION OF EXISTING WALL PANEL AS INDICATED.
2. SEE ARCHITECTURAL DRAWINGS FOR THIN BRICK AND REVEALS IN PRECAST ELEMENTS.
3. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

1 EAST WALL ELEVATION - GRID LINE "7"

PERKINS

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.

41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE
AKF Group LLC

99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

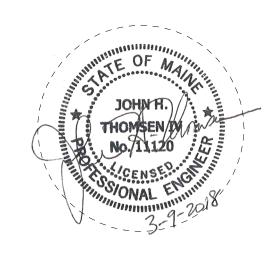
Turner Construction
2 Seaport Lane, Suite 200, Boston MA 02210

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA

D. G. Jones International
3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

PERMIT SET 03.09.18

NO ISSUE DATE

Job Number 152182.000

Drawn NWS

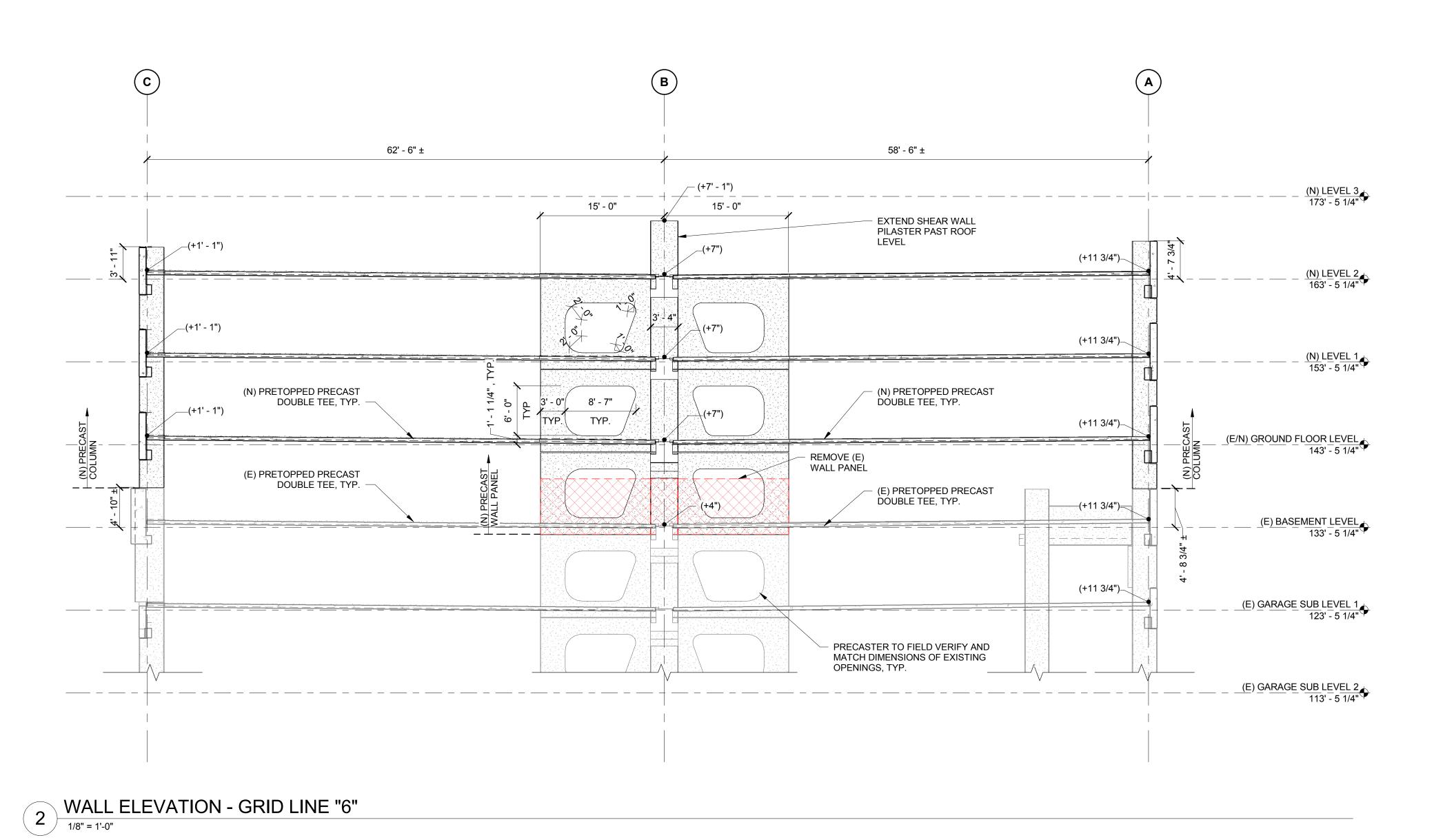
Checked BMT

Approved JHT

EAST ELEVATION

SHEET NUMBER

S20-40



PERKINS

225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321

www.perkinswill.com

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE
AKF Group LLC

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction
2 Seaport Lane, Suite 200, Boston MA 02210

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA

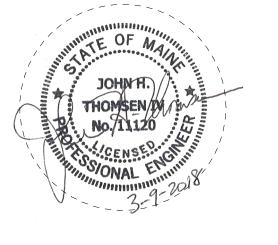
COST ESTIMATOR

D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage Expansion 22 Bramhall Street Portland, ME 04102

PROJECT TITLE



KEY PLANS

PROJECT KEY PLAN

TRUE NORTH VISITOR GARAGE

OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

	PERMIT SET		03.09.18	
	NO	ISSUE	DATE	
	Job Num	152182.000		
	Drawn	NWS BMT		
Α	Checked			
	Approved		JHT	

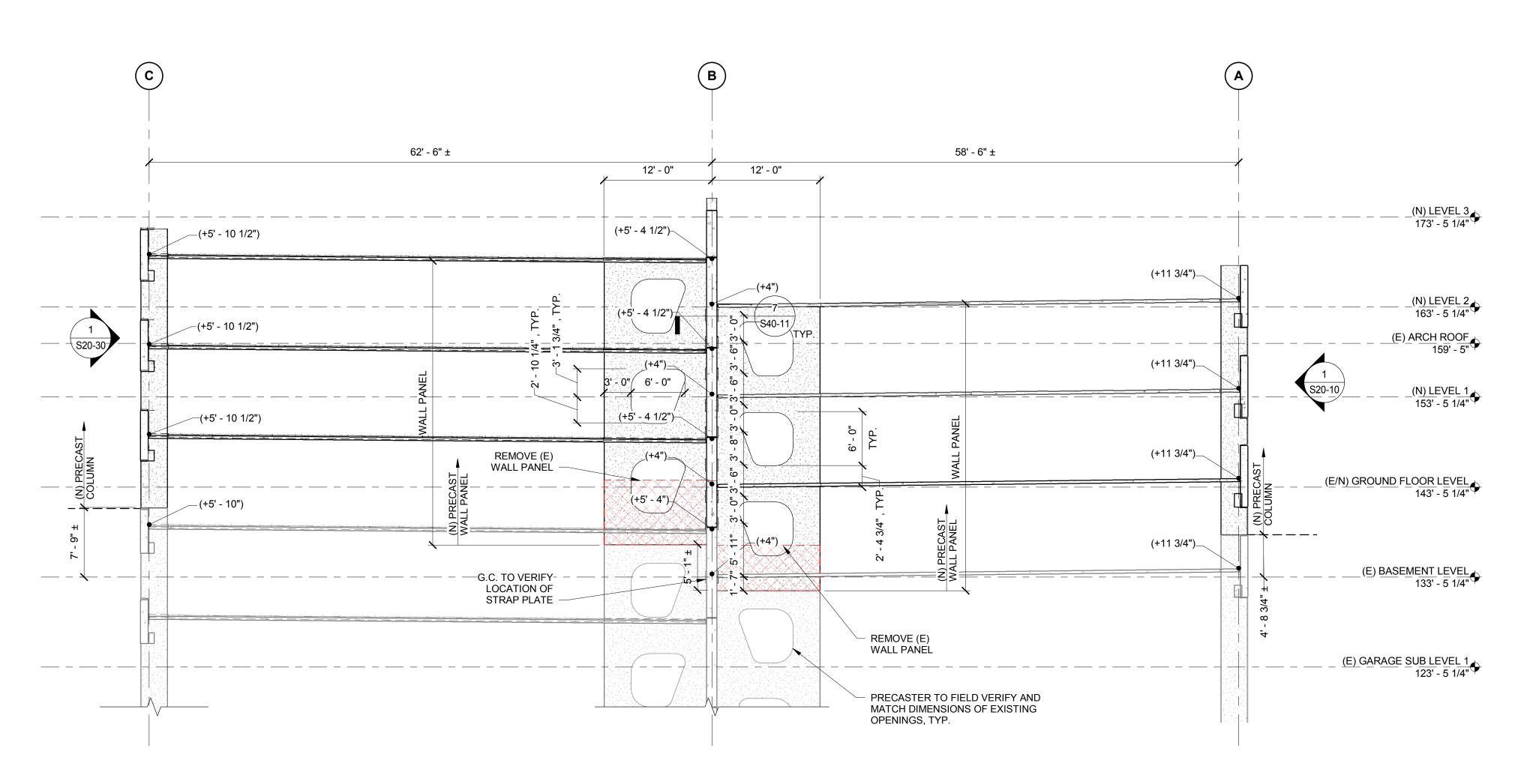
BUILDING SECTION

SHEET NUMBER

S21-10

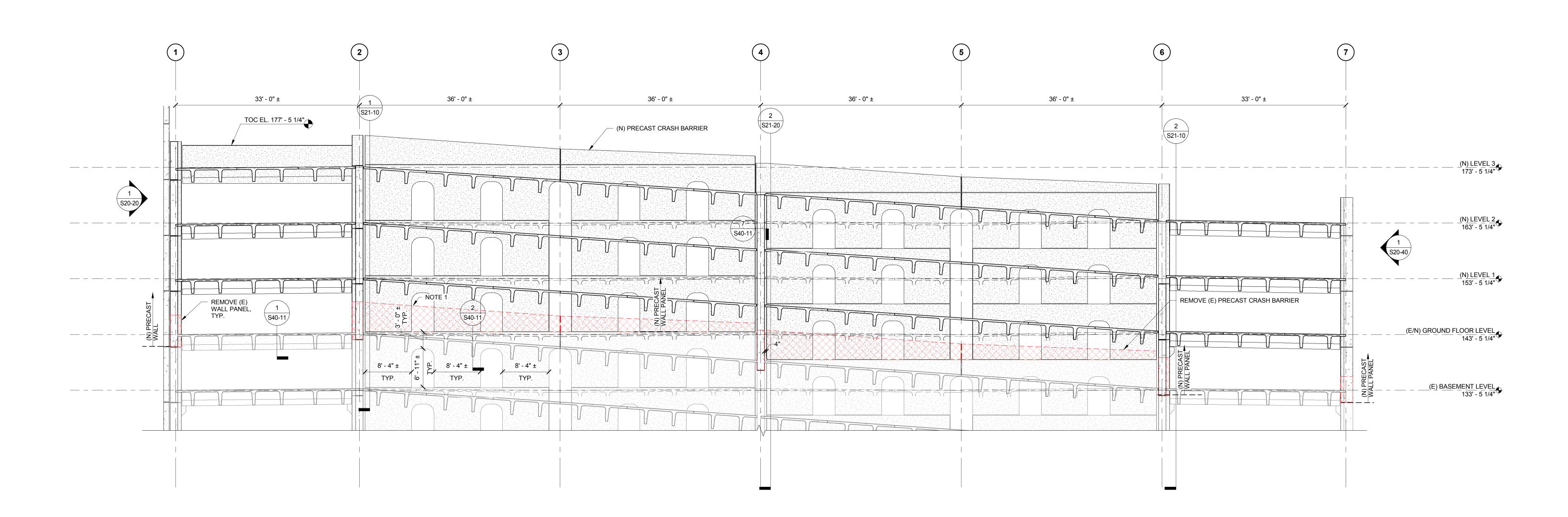
Copyright 2018 @ Perkins + Will

3/9/2018 2:34:44 PM



WALL ELEVATION - GRID LINE "4"

1/8" = 1'-0"



NOTES:
1. REMOVE EXISTING PRECAST CRASH BARRIER AT TOP OF LITE WALL.

1 WALL ELEVATION - GRID LINE "B"

PERKINS

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE
AKF Group LLC
99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction

2 Seaport Lane, Suite 200, Boston MA 02210

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA

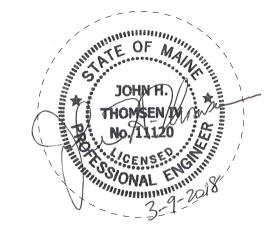
COST ESTIMATOR

D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage Expansion 22 Bramhall Street Portland, ME 04102

PROJECT TITLE



KEY PLANS

PROJECT KEY PLAN

OVERALL KEY PLAN

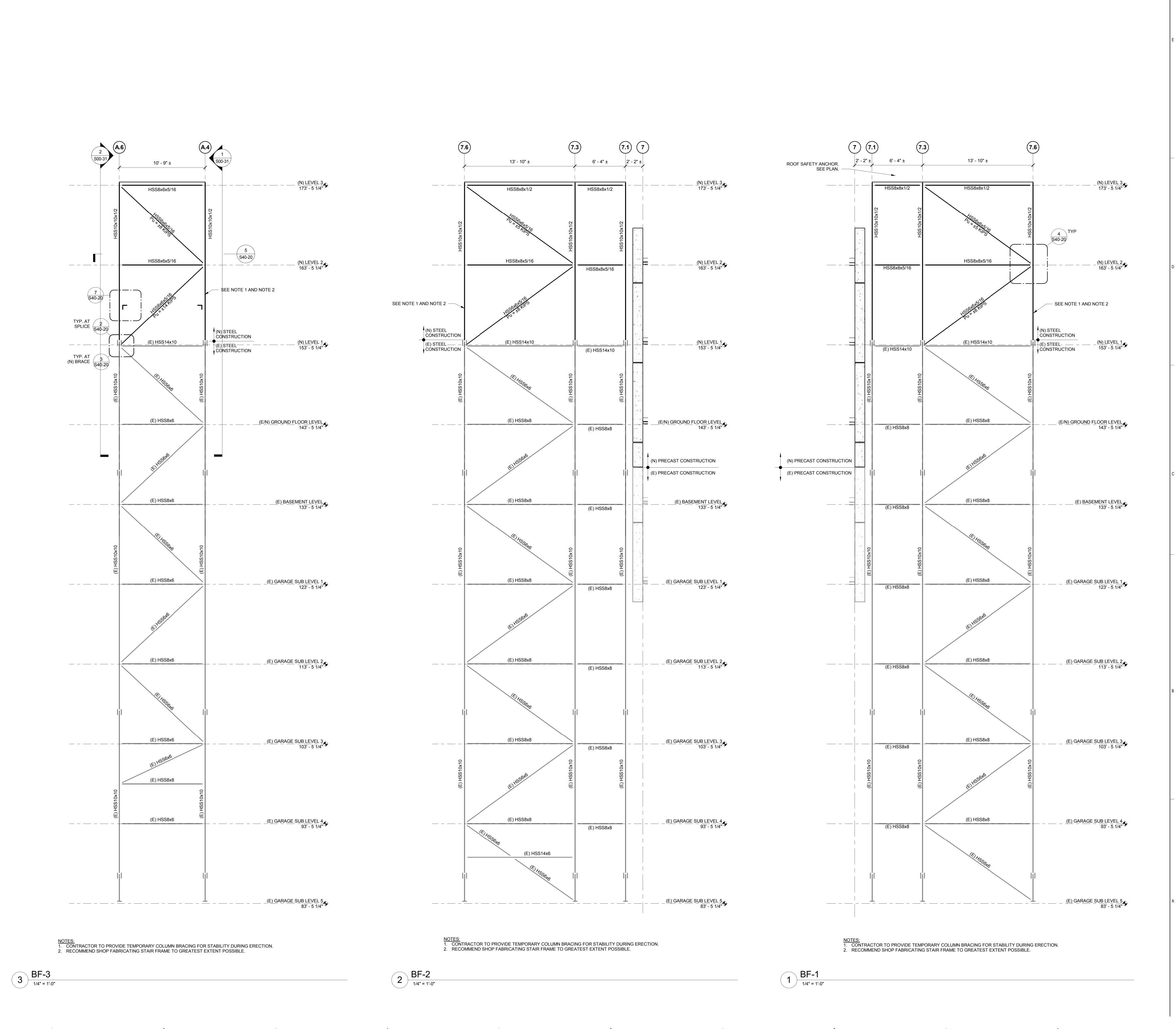
1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

BUILDING SECTION

SHEET NUMBER

S21-20



PERKINS

+ WILL

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321

CLIENT

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

SIMPSON Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE
AKF Group LLC
99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction

2 Seaport Lane, Suite 200, Boston MA 02210

VDA (Van Deusen & Associates)

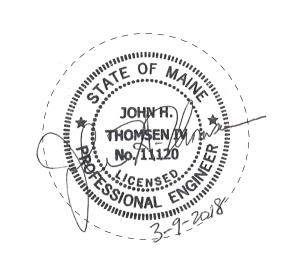
101 Summer Street, 4th Floor, Boston MA
02110

COST ESTIMATOR

D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS
PROJECT KEY PLAN

TRUE NORTH VISITOR

OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

CONSTRUCTION DOCUMENT SET
SEPTEMBER 29, 2017

> EAST STAIR TOWER ELEVATIONS

> > SHEET NUMBER

S30-10

G.C. TO COORDINATE NEW SPLICE SLEEVE LOCATIONS
WITH EXISTING AS-BUILT
DOWEL LOCATIONS — (N) PRECAST WALL PANEL TYPICAL REINF. NOT SHOWN (E) PRECAST DTs TO REMAIN RE-ESTABLISH DT-TO-WALL
 DIAPHRAGM CONNECTIONS AT (N)
 WALL PANELS, TYP. (E) <u>BASEMENT</u> <u>LEVEL</u> 133' - 5 1/4" (E) PRECAST WALL PANEL TO REMAIN 6 (N) PRECAST WALL PANEL ON (E) PRECAST WALL PANEL

3/4" = 1'-0"

- G.C. TO COORDINATE TOP OF PRECAST DOUBLE PRECAST ELEVATIONS ON SHEAR TEE BEAM, TYP. WALLS TO ALIGN WITH TOP OF PRECAST DOUBLE TEE BEAMS AT ROOF LEVEL BACKER ROD AND SEALANT, TYP. SEE STAINLESS STEEL EMBEDDED PLATE ARCH. — WITH (S.S.) DBAs AND HCAs - STAINLESS STEEL STAINLESS STEEL JVI PSA INSERT, TYP.

(OR APPROVED EQUIVALENT) WITH

VERTICAL SLOT. AMOUNT TO BE

DETERMINED BY PRECASTER. (3) MIN. ANGLE AND 3/4"Ø PRECAST SHEAR PER WALL. PROVIDE ADDITIONAL REINFORCEMENT AROUND INSERT AS REQUIRED FOR EDGE DISTANCES.

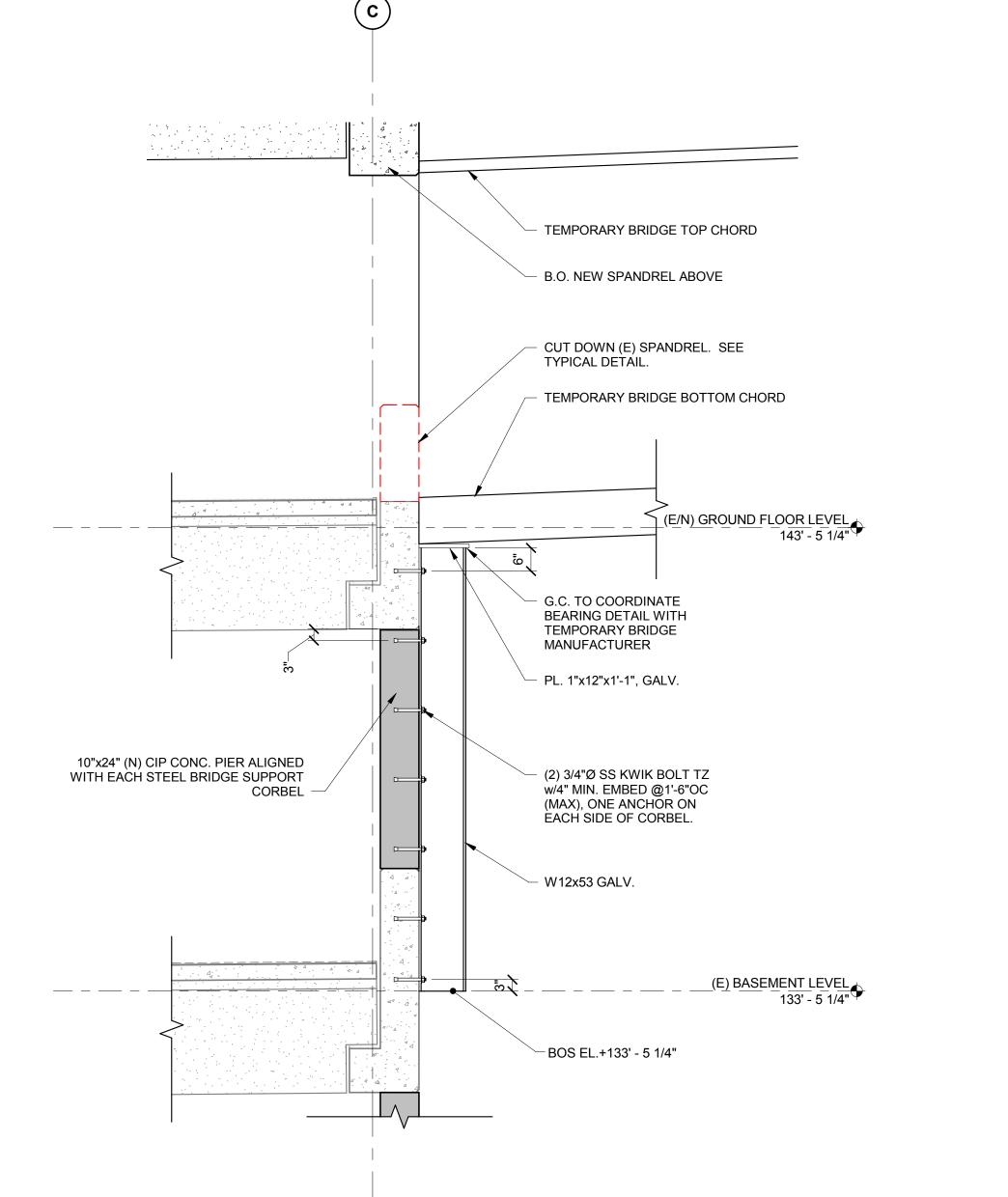
TYPICAL INTERIOR SHEAR WALL DETAIL AT NEW ROOF

1" = 1'-0"

(N) PRECAST CONC. COLUMNS -

(N) PRECAST

CONC. 10SP68



(E/N) GROUND FLOOR LEVEL 143' - 5 1/4" (E) PRECAST CONC. — 10"x24" (N) CIP CONC. PIER ALIGNED WITH EACH STEEL BRIDGE SUPPORT COLUMN, TYP. _____(E) BASEMENT LEVEL - CONTINUE EAST (N) 10"x24" CIP CONC. PIER TO FOUNDATION. PREVENT PARKING EA. FLOOR IN THIS BAY UNTIL PIERS ARE PROPERLY CURED. (E) PRECAST CONC. 10SP58 ___ _ (<u>E) GARAGE SUB LEVEL 1</u> 123' - 5 1/4" ____ _ (<u>E) GARAGE SUB LEVEL 2</u> 113' - 5 1/4" ____ (E) GARAGE SUB LEVEL 3 103' - 5 1/4" (E) PRECAST CONC. 10SP76 — _____ (E) GARAGE SUB LEVEL 4 93' - 5 1/4" (E) CIP CONC. STEM WALL -- TOC EL. 87' - 0" VIF (E) CIP CONC. FOUNDATION — N _______ (E) GARAGE SUB LEVEL 5 83' - 5 1/4"

PARTIAL ELEVATION AT FUTURE TEMPORARY BEAN CONNECTOR

1/8" = 1'-0"

#3 TIES @ 10" O.C. MAX.
PROVIDE (3) TIES AT TOP
AND BOTTOM 6" OF PIER AT EA. LEVEL #7 DOWEL, T+B OF PIER, TYP. EPOXY ANCHOR INTO EXISTING PRECAST CONC. SPANDRELS 8" MIN. LAP BARS 18" MIN. 1 1/2" CLR, TYP.— 3 TYP. PIER REINF.

1" = 1'-0"

TEMPORARY BEAN BRIDGE SUPPORT

1/2" = 1'-0"

5 NOT USED
3/4" = 1'-0"

- DEMOLISH TOP OF EXISTING PRECAST CONC. SPANDREL DOWN TO TOP OF GARAGE FLOOR MIN. 28 DAYS AFTER

PIER INSTALLATION. INSTALL
TEMPORARY GUARD. DO NOT OVERCUT
CORNERS.

t 617.478.0300 f 617.478.0321 www.perkinswill.com

225 Franklin Street, Suite 1100

Boston, MA 02110

Maine Medical Center MaineHealth

PERKINS

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106 STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT Simpson Gumpertz & Heger Inc.

41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC 99 Bedford Street, 2nd Floor, Boston MA 02111

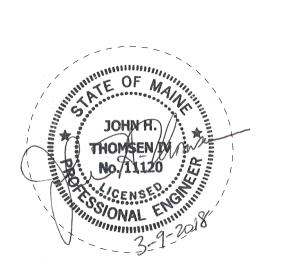
CONSTRUCTION MANAGER **Turner Construction** 2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

COST ESTIMATOR D. G. Jones International 3 Baldwin Green Common, Suite 202, Woburn MA 01801

PROJECT TITLE

Visitor Garage **Expansion** 22 Bramhall Street Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

VISITOR GARAGE OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE

4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING 8 - MAINE GENERAL BUILDING

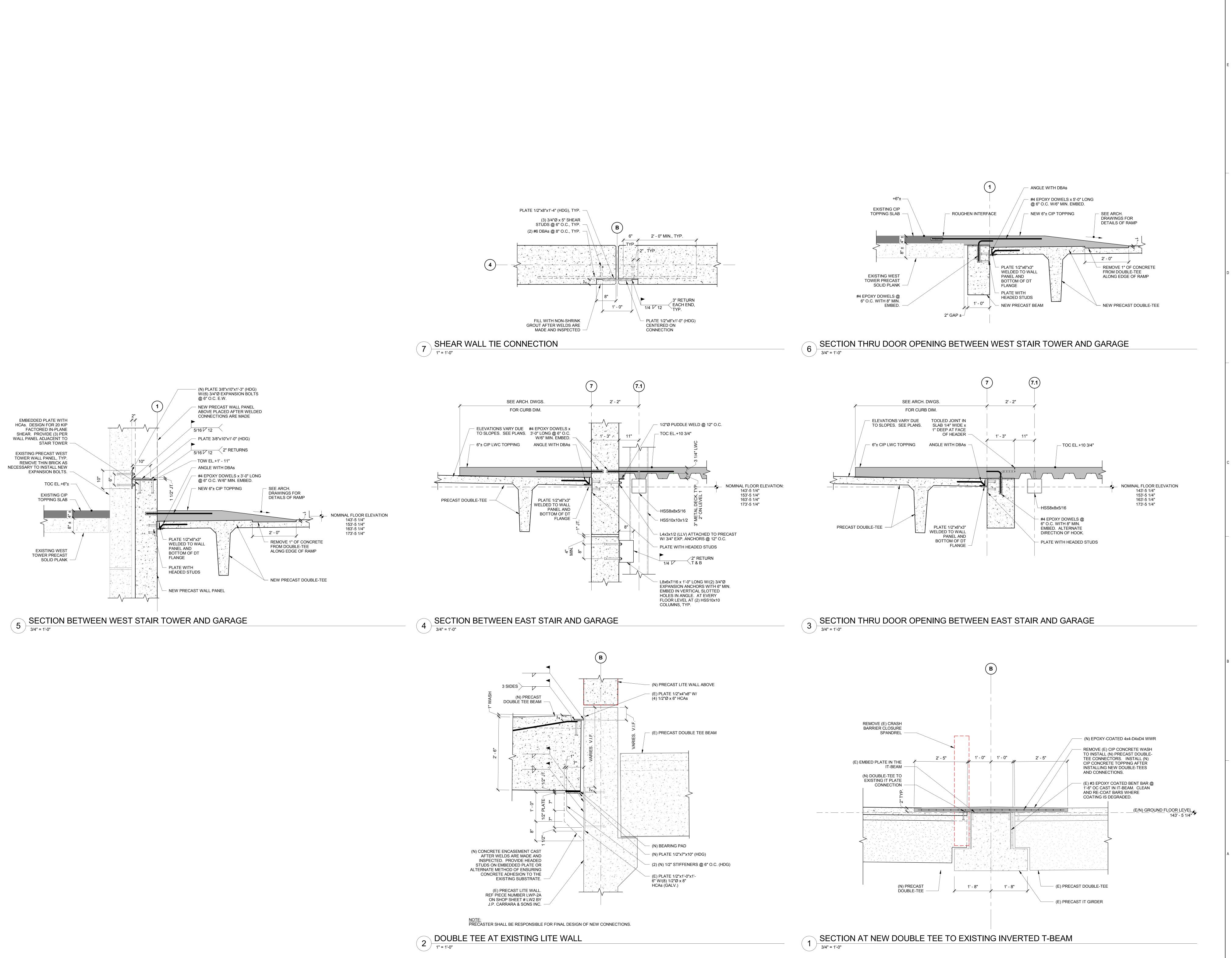
CONSTRUCTION DOCUMENT SET SEPTEMBER 29, 2017

ISSUE Job Number 152182.000 NWS Checked TITLE

PRECAST DETAILS

SHEET NUMBER

S40-10



PERKINS

+ WILL

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics

75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.

41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

MEPFP ENGINEER/ CODE

AKF Group LLC

99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER

Turner Construction

2 Seaport Lane, Suite 200, Boston MA 02210

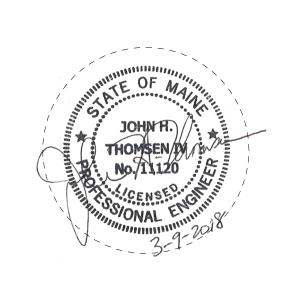
VDA (Van Deusen & Associates)
101 Summer Street, 4th Floor, Boston MA
02110

COST ESTIMATOR

D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

TRUE NORTH VISITOR GARAGE

OVERALL KEY PLAN

1 - NOT USED

OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

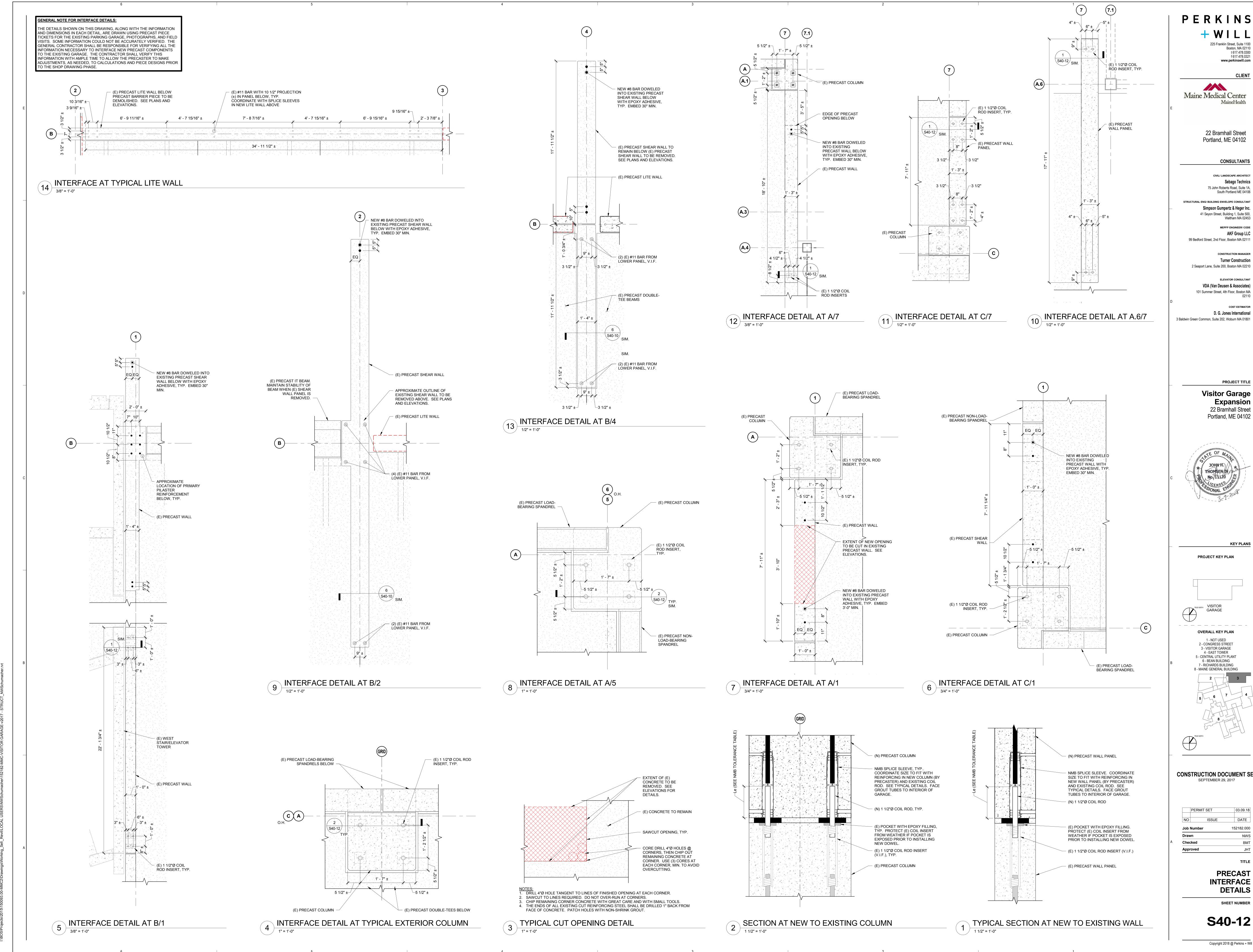
CONSTRUCTION DOCUMENT SET

SEPTEMBER 29, 2017

PRECAST DETAILS

SHEET NUMBER

S40-11



PERKINS + WILL 225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106 STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

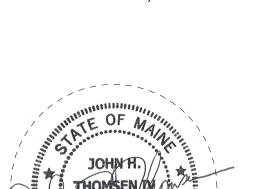
Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC 99 Bedford Street, 2nd Floor, Boston MA 02111

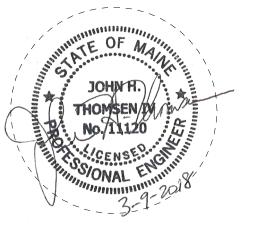
CONSTRUCTION MANAGER **Turner Construction** 2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

D. G. Jones International

PROJECT TITLE **Visitor Garage Expansion**





KEY PLANS PROJECT KEY PLAN

OVERALL KEY PLAN

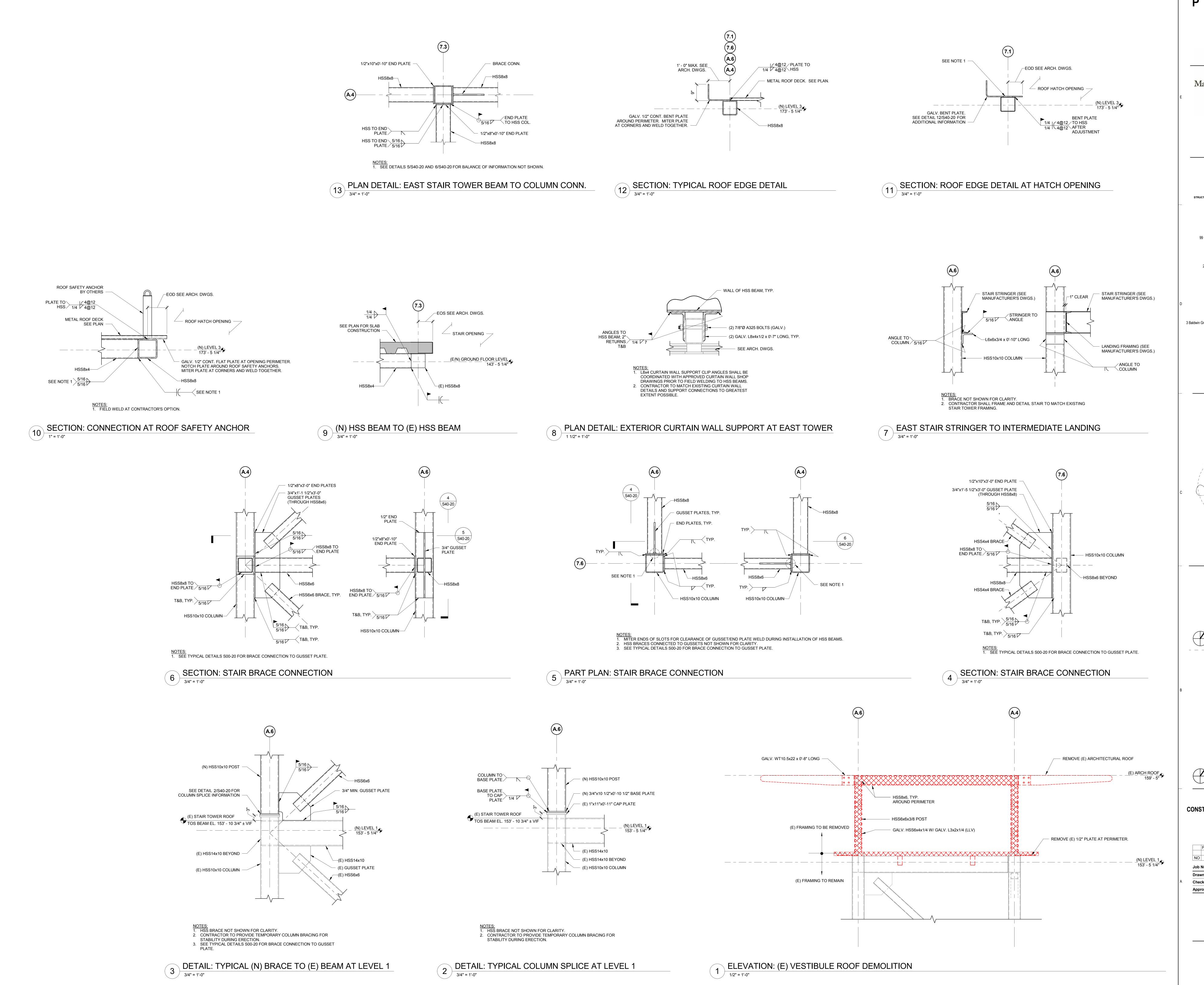
1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

CONSTRUCTION DOCUMENT SET

152182.000 NWS TITLE

PRECAST INTERFACE DETAILS

S40-12



PERKINS 225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321 www.perkinswill.com

Maine Medical Center

MaineHealth

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT Sebago Technics 75 John Roberts Road, Suite 1A, South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC

99 Bedford Street, 2nd Floor, Boston MA 02111 CONSTRUCTION MANAGER **Turner Construction**

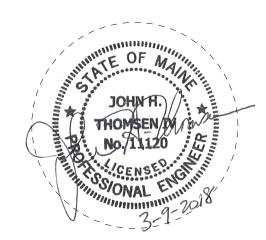
2 Seaport Lane, Suite 200, Boston MA 02210 ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

COST ESTIMATOR D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

PROJECT TITLE Visitor Garage **Expansion** 22 Bramhall Street

Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

VISITOR GARAGE

OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

CONSTRUCTION DOCUMENT SET

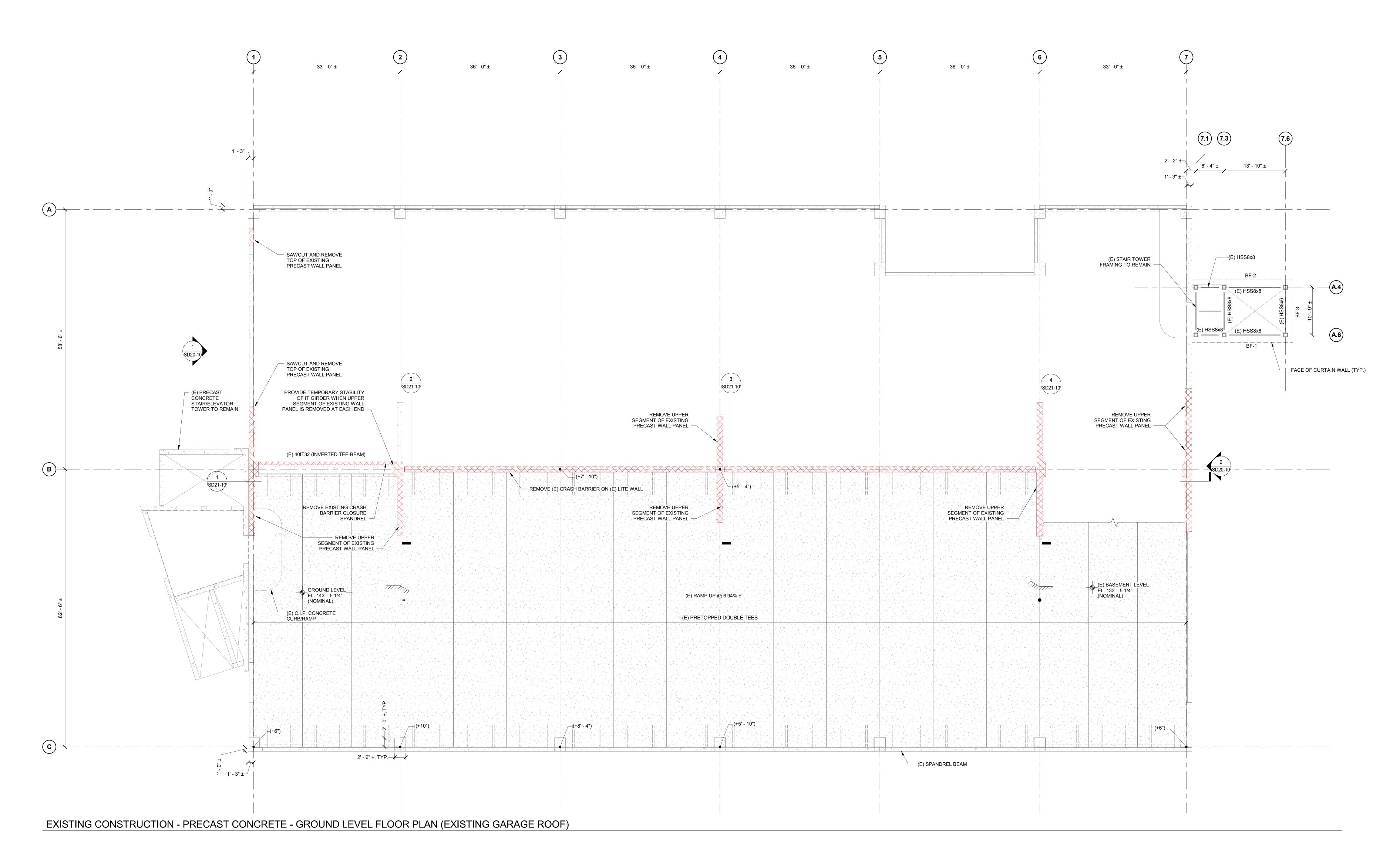
SEPTEMBER 29, 2017

Job Number 152182.000

STEEL DETAILS

SHEET NUMBER

S40-20



GENERAL STRUCTURAL DEMOLITION NOTES

- 1. THE DEMOLITION SHOWN IN THIS SET IS TO ALLOW FOR THE ERECTION OF A VERTICAL ADDITION TO THE EXISTING STRUCTURE.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY STABILITY OF THE STRUCTURE DURING THE DEMOLITION PROCESS. THE CONTRACTOR SHALL MAINTAIN THE STABILITY UNTIL NEW PIECES ARE INSTALLED THAT RESTORE CONNECTIONS DISCONNECTED DURING THE

DEMOLITION PROCESS. 3. THE CONTRACTOR SHALL GRIND ALL EXISTING WELDS TO BE DISCONNECTED. CONNECTION PLATES IN PIECES TO REMAIN THAT WILL BE UTILIZED IN FUTURE BUILD-OUT SHALL NOT BE PERKINS

225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321

www.perkinswill.com

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS CIVIL/ LANDSCAPE ARCHITECT

75 John Roberts Road, Suite 1A,

South Portland ME 04106 STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500, Waltham MA 02453 MEPFP ENGINEER/ CODE AKF Group LLC

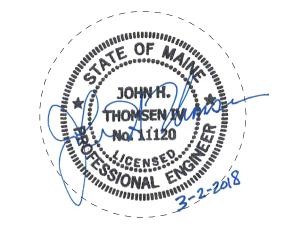
99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER **Turner Construction** 2 Seaport Lane, Suite 200, Boston MA 02210

ELEVATOR CONSULTANT VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA

D. G. Jones International 3 Baldwin Green Common, Suite 202, Woburn MA 01801

PROJECT TITLE **Visitor Garage Expansion**22 Bramhall Street Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

OVERALL KEY PLAN 1 - NOT USED 2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING

DEMOLITION SET MARCH 2, 2018

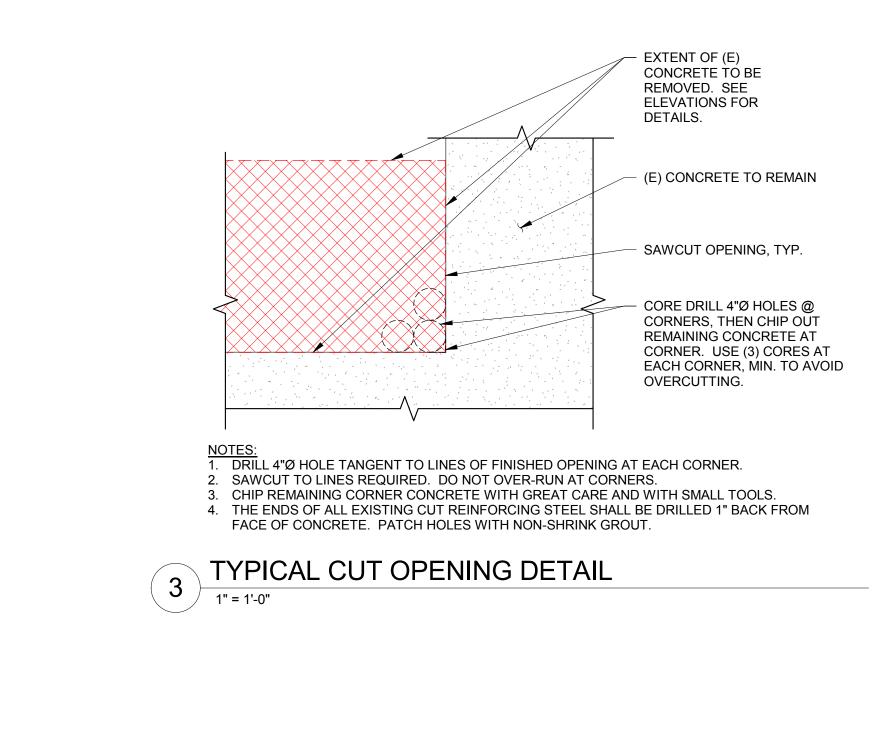
152182.000

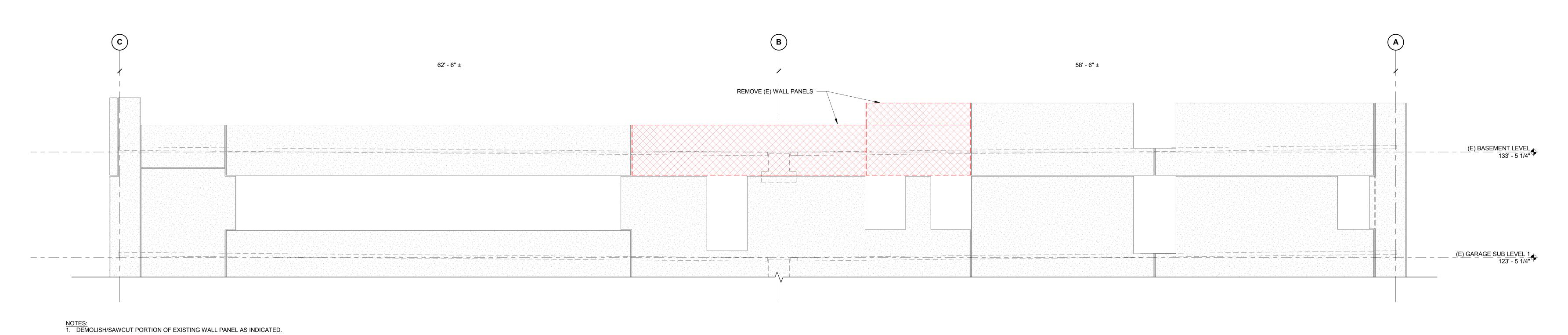
STRUCTURAL

SHEET NUMBER

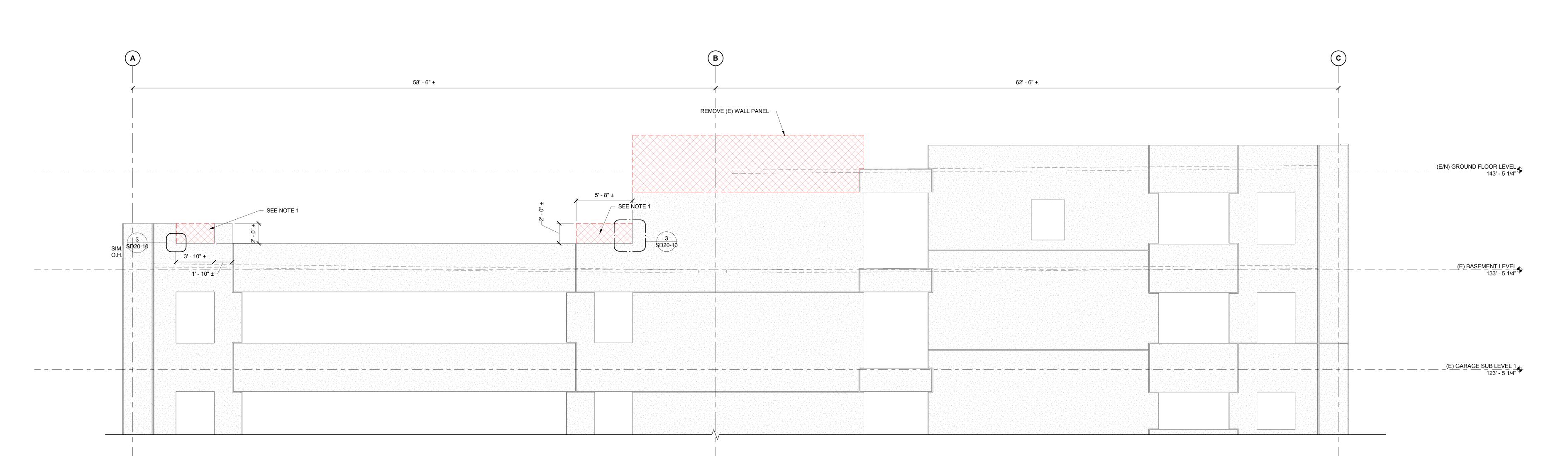
DEMOLITION PLAN - GROUND LEVEL

SD10-10





EAST WALL DEMOLITION ELEVATION - GRID LINE "7"



NOTES:

1. DEMOLISH/SAWCUT PORTION OF EXISTING WALL PANEL AS INDICATED.

WEST WALL DEMOLITION ELEVATION - GRID LINE "1"

1/4" = 1'-0"

1 SET

NO ISSUE DATE

Job Number 152182.000

Drawn NWS

Checked BMT
Approved JHT

PERKINS

Maine Medical Center

225 Franklin Street, Suite 1100

MaineHealth

CONSULTANTS

Sebago Technics

Waltham MA 02453

MEPFP ENGINEER/ CODE

CONSTRUCTION MANAGER
Turner Construction

ELEVATOR CONSULTANT

COST ESTIMATOR

D. G. Jones International

PROJECT TITLE

KEY PLANS

PROJECT KEY PLAN

OVERALL KEY PLAN

2 - CONGRESS STREET 3 - VISITOR GARAGE

5 - CENTRAL UTILITY PLANT

6 - BEAN BUILDING 7 - RICHARDS BUILDING

Visitor Garage

Expansion
22 Bramhall Street
Portland, ME 04102

AKF Group LLC

CIVIL/ LANDSCAPE ARCHITECT

75 John Roberts Road, Suite 1A,

Simpson Gumpertz & Heger Inc. 41 Seyon Street, Building 1, Suite 500,

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

99 Bedford Street, 2nd Floor, Boston MA 02111

2 Seaport Lane, Suite 200, Boston MA 02210

3 Baldwin Green Common, Suite 202, Woburn MA 01801

VDA (Van Deusen & Associates)
101 Summer Street, 4th Floor, Boston MA

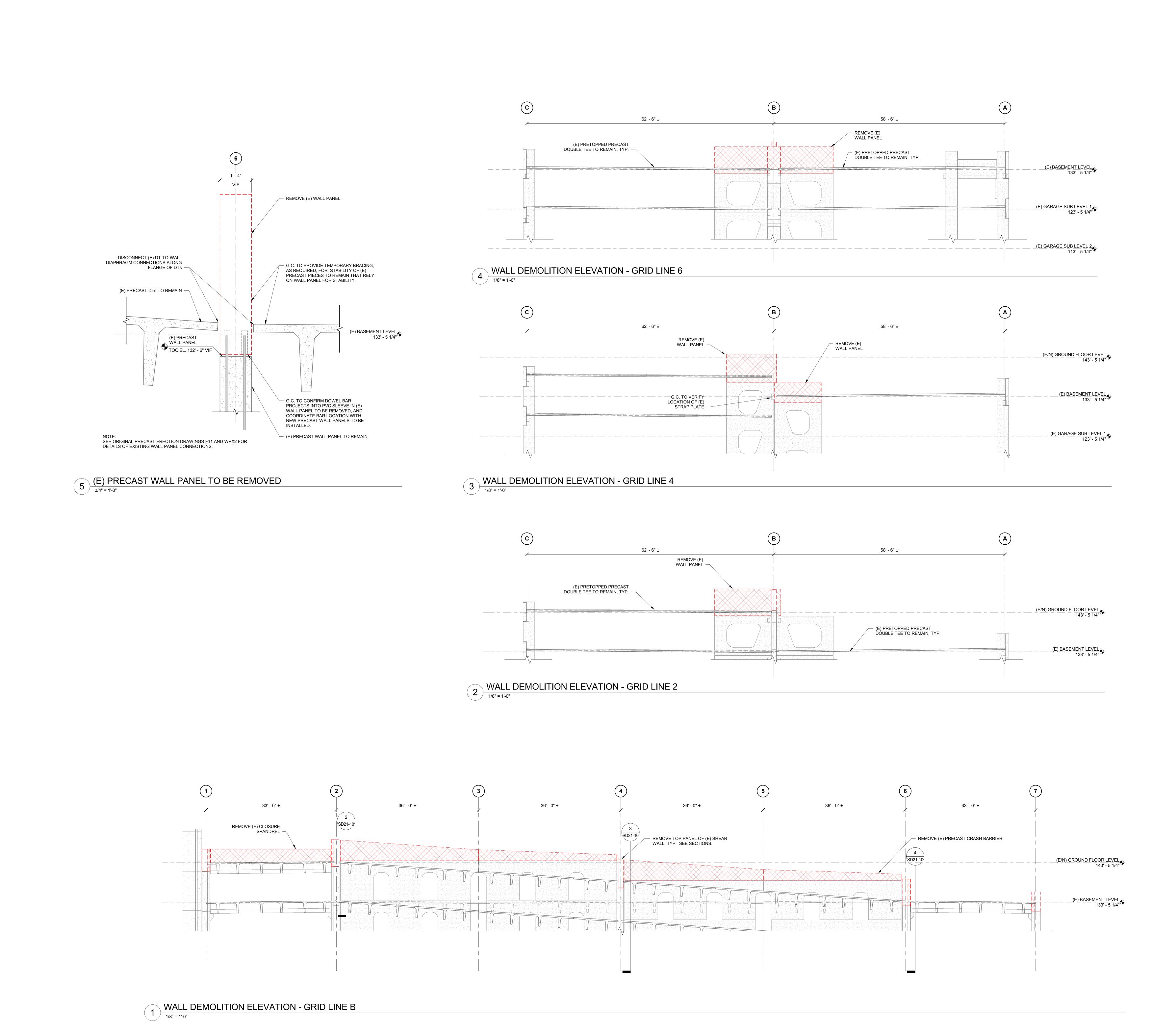
South Portland ME 04106

22 Bramhall Street

Portland, ME 04102

Boston, MA 02110 t 617.478.0300 f 617.478.0321 www.perkinswill.com

ELEVATIONS



PERKINS

WILL

225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

Maine Medical Center

22 Bramhall Street Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT

Sebago Technics
75 John Roberts Road, Suite 1A,
South Portland ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT

Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham MA 02453

AKF Group LLC
99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER
Turner Construction

2 Seaport Lane, Suite 200, Boston MA 02210

MEPFP ENGINEER/ CODE

VDA (Van Deusen & Associates)

101 Summer Street, 4th Floor, Boston MA
02110

COST ESTIMATOR

D. G. Jones International

3 Baldwin Green Common, Suite 202, Woburn MA 01801

Visitor Garage
Expansion
22 Bramhall Street
Portland, ME 04102



KEY PLANS

PROJECT KEY PLAN

OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING

DEMOLITION SET

NO ISSUE DATE

Job Number 152182.000

Drawn NWS

Checked BMT

Approved JHT

BUILDING SECTIONS

SHEET NUMBER

SD21-10