GENERAL

- 1. These notes serve as the specifications for the
- 2. The applicable building code is 2018 IEBC as amended by the New York State.
- 3. Refer to the Special Inspections tables on sheet S002 for special inspection requirements for the project
- 4. Contractor is solely responsible for means and methods and protecting adjacent structures during the course of the work. Do not damage or endanger the structural integrity of the Work
- or Existing Structure. 5. Contractor shall be responsible for the proper and safe design of shoring systems for
- trenches and excavations. 6. Notify Engineer in case of discrepancies between drawings and these notes before proceeding with the work.
- 7. Use architectural drawings and drawings of other disciplines in conjunction with the structural drawings to properly perform the work.
- 8. If conditions disclosed during excavation and demolition reveal unforeseen conditions, promptly request direction from Architect before proceeding.
- 9. Contractor is responsible for coordinating between trades.
- Do not scale drawings.
- 11. Field dimensions
- A. If structural drawings are used for laying out column centers and wall lines, all dimensions shall first be verified with the architectural drawings. Layout shall be closed before work is begun.
- 12. Sections and details shown, while drawn for specific locations, are intended to establish the general types of details to be used throughout.
- 13. The Engineer's review of a submittal shall not relieve the Contractor of their responsibility to follow the intent of the contract drawings.
- 14. Wind Speed for special wind region applies to all properties within highland falls for the building department for the Village of Highland and the town of Highland Falls.
- 15. The roof live load is designed to be 30 psf plus drift.
- DELEGATED DESIGN ITEMS
- 1. Employ or retain a licensed professional engineer in the project jurisdiction to design and detail the following performance specified structural components:
- A. Concrete mix design
- B. Structural steel connections
- C. Shoring / Scaffolding
- D. Temporary Excavation Support
- E. Underpinning
- F. Stairs and railings
- G. Roof Walkways
- See individual material sections for additional requirements.

EXISTING BUILDING/STRUCTURE NOTES

- 1. Existing building conditions have been established based on existing structural drawings prepared by Office of the Construction Quartermaster dated 1933. The contractor shall reference these drawings for existing structural information not shown. These drawings are available from the Owner upon request.
- 2. Verify all existing dimensions and elevations before beginning work or preparing shop drawings
- 3. Utmost care shall be exercised at all times when working on existing structural members and masonry bearing walls to avoid impairing the carrying capacity of the existing structure.
- A. Should the Architect determine that the carrying capacity of the existing structure has been impaired by, or as a result of, the operations of the Contractor, or is otherwise not in conformance with the contract documents, appropriate remedial work shall be required.
- B. Any damage resulting from the operations of the Contractor shall be repaired as directed by the Owner's representative at no additional cost to the Owner.
- Notify the Architect before cutting or removal of any part of the existing structure not indicated to be modified or demolished.
- 5. Burning or welding in the building is strictly prohibited. 6. Contractor shall coordinate locations and
- dimensions of all penetrations through existing masonry walls with mechanical/electrical/plumbing drawings and provide lintels or sleeves per structural details. The contractor shall provide an allowance in their bid/pricing for this work.

- Contractor shall infill all abandoned 7. mechanical/electrical/plumbing penetrations in existing masonry walls with new or salvaged masonry, to the satisfaction of the Architect. The masonry sub-contractor shall provide an allowance in their bid/pricing for this work.
- FOUNDATIONS
- Foundations are designed for a bearing pressure of 6000 psf based on a the original 1933 drawings.
- Footings should be cast on the same day in which excavation for them is completed. If placing of concrete is delayed, footing bottom shall be trimmed to firm material immediately before casting.
- 3. Place concrete in dry excavations only.
- 4. Provide dowels equal in size and number to pedestal vertical reinforcing in top of footings.
- 5. Footings shall be formed unless otherwise permitted by the Engineer.
- 6. Provide continuous keyway and dowels in top of wall footing supporting concrete walls.
- 7. Provide keyway and joint filler at expansion joints in concrete walls. Discontinue reinforcing at joint.
- 8. Backfilling:
- A. Before backfilling walls, grout and/or concrete shall have attained design strength, and all slabs and beams that are necessary for the stability of the walls shall be in place.
- B. Backfill shall be carried up evenly on both sides of wall to lower grade.
- C. Backfill shall be placed in maximum of 12" loose lift thickness and compacted to 92% of Modified Proctor in accordance with ASTM D1557.
- D. Tests shall be performed for each lift at a rate of two tests per lift minimum and not less than one test per 100' of wall length. 9. Structural fill, including under footings:
- A. Fill shall be placed in maximum of 12" loose lift thickness and compacted to 92% of Modified Proctor in accordance with ASTM D1557.
- B. On-site or imported granular fills including GW, GP, GM, SW, SP, ND, SM Classified in accordance with the Unified Soil Classification System (USCS) and within 2% of optimum moisture. Furthermore, the material to be utilized as structural fill should have a plasticity index (PI) less than
- 10. Fill under slabs on grade shall be placed in maximum of 12" loose lift thickness and compacted to 92% of Modified Proctor in accordance with ASTM D1557

UNDERPINNING-DELEGATED DESIGN

- 1. Underpinning of existing building foundation is required. The extent of underpinning is indicated on the foundation plan. Bottom of existing foundation elevations are approximate and will require field verification by the contractor and specialty engineer prior to preparation of underpinning submittals.
- 2. Engage a qualified Professional Engineer licensed in the state in which the project is contracted to design underpinning and permanent tie-backs. Submit signed and sealed shop drawings and calculations for the underpinning system.
- 3. Information Submittal Requirements:
- A. Underpinning Contractor Statements of Qualifications-Proof and descriptions of at least five (5) underpinning projects of similar size and scope performed within the past 5 years.
- B. Delegated Designer Qualifications-Contractor shall also provide a resume and brief history of delegated designer engaged by the contractor to perform calculations and prepare plans and details for underpinning.
- Action Submittal Requirements:

A. Engineered Calculations and Shop Drawings-Bound calculations, signed and sealed by the specialty engineer shall be submitted with plans, sections and details prepared to describe the scope and sequence of the underpinning. Shop drawings shall convey construction sequence, methods, proposed depths, and bearing conditions of underpinning.

- B. Underpinning Concrete Mix Designs C. Tie-back Components
- Prior to the start of work, the contractor and specialty engineer shall visit the site to review and verify conditions that may impact the design and construction of underpinning.
- Contractor shall photograph and document all existing conditions. Submit one (1) copy of existing condition documentation to the Owner/Owner's Representative and maintain one (1) copy in the field office.

- Typical completed underpinning details provided on sheet S400 convey the intent of the completed design. It is the responsibility of the contractor and their engineer to develop the construction sequence, and provide the means and methods required to satisfy the intent of these drawings.
- 8. Pre-Installation Conference: Conduct a pre-installation conference at the site to review underpinning procedures prior to execution of underpinning work. Attendees should include the Owner, Contractor
- 9. Concrete: Provide 3000 psi (at 28 days) concrete. Use Type I/II or III cement.
- 10. Non-Shrink Grout: Provide a 5000 psi (at 28 days) non-metallic, non-shrink grout complying with ASTM C1107.
- 11. Refer to the project manual for additional product information.
- 12. Bear the bottom of underpinning on subgrade having a bearing capacity equal to or greater than the allowable soil bearing pressure as indicated in the foundation notes. Prior to casting concrete, notify the geotechnical engineer so subgrade inspection services at the bearing level are provided for each underpinning pier.
- Allow underpinning concrete to cure 24 hours before dry-packing the void between underside of existing foundation and top of underpinning. Drv-pack material shall be damp, not wet, Dry-packing material shall be non-shrink, non-metallic grout or consist of 1 part Portland cement and 2 to 3 parts coarse sand mix. Ram in place with a hardwood compactor. Allow dry-packing to cure 24 hours before excavating the next section.

REINFORCED CONCRETE

- 1. Concrete construction shall follow requirements of ACI 301 "Specifications for Structural Concrete"
- 2. Detail, fabricate and place reinforcing and bar supports in accordance with the provisions set forth by the American Concrete Institute and the CRSI "Manual of Standard Practice."
- Provide shop drawings showing full information for reinforcing placement. Develop all member elevations and sections with pertinent elevations given, to clearly indicate the position of the reinforcement and construction joints, without reproducing sections, plans, or elevations from the design drawings.
- Provide reinforcing steel conforming to ASTM A615, Grade 60.
- 5. Length of reinforcing bars, if shown, does not include hooks.
- 6. Headed Reinforcing Bar Anchors shall conform to ACI 318 and ASTM A970. Install according to manufacturer's written instructions. Submit product information and ICC-ES Evaluation
- 7. Mechanical splice couplers shall conform to ACI 318. Type 2, mechanical-lap type couplers, Coupler to be same material as reinforcing bar being spliced. Submit product information and ICC-ES Evaluation Report.
- Welded wire fabric shall conform to ASTM A1064.
- 9. Concrete properties: See schedule, this sheet. 10. Clear cover for cast-in-place concrete
- reinforcing: See schedule, this sheet. 11. Reinforcement not shown on sections and plans is the same as that shown in similar sections and at similar locations.
- 12. Extend reinforcing through construction joints or provide dowels equal in size and number to bars in the doweled member. Develop or splice dowels on each side of cold joint according to the reinforcing development length tables on S001 and respective typical details.
- Use stirrup and tie bending radii for all #3 through #5 bars.
- 14. Ties and stirrups: A. Provide pedestal ties as scheduled.
- 15. Slabs on Grade:
- A. The use of Macro Synthetic fiber is an acceptable substitution for temperature reinforcing in slab on grades. Contractor to submit calculations and product data showing the dosage rates which equate to the WWF reinforcing shown on the construction documents for review and approval by EOR. Provide #4@18" x 4'-0" long at all construction joints. All reinforcing shown on drawings that are not WWF, such as hooked bars and cont. edge bars cannot be substituted. Coordinate control joint size and depth per fiber manufactures recommendations but not less than shown on construction documents
- B. Contractor shall submit a layout of proposed construction joints for review before making any pours.
- C. Provide premolded joint filler where slab abuts vertical surface ex: columns, pedestals
- See other drawings in this project for size and location of equipment pads and curbs.

- 17. Contractor shall notify Owner's inspection agency before placement of concrete to allow for inspection of reinforcing placement, clearance, stud quantities on steel beams, and to confirm debris has been removed from forms.
- 18. Locate all new cores in existing elevated structural slabs such that they do not penetrate the concrete beams. Space cores a min of 2D apart with D being the max diameter of the cores in question.

STRUCTURAL STEEL

- 1. Detail, fabricate, and erect structural steel in accordance with AISC 360 and AISC 303 "Code of Standard Practice".
- 2. Structural steel design is based on the Allowable Strength Design (ASD) methodology. All loads shown on drawings are unfactored (service) loads, unless noted otherwise.
- The structural steel detailer shall develop all elevations, plans, and sections without reproducing same from the design drawings. Detailer shall adequately cross reference the structural drawings to the satisfaction of the engineer. All shop drawings shall be submitted for review and review comments incorporated prior to fabrication.
- Materials shall conform to the following: ASTM A36 Bars, rods, angles, channels and plates
- ASTM A992 W and WT shapes ASTM A53, Grade B Pipes
- ASTM A500, Grade C Hollow Structural Sections

piece detail shop drawings.

otherwise.

Steel Buildings.

welding.

prohibited

gauge.

requirements.

10.

weldability of base metal.

proceeding with final connections.

bolts

Connections:

ASTM A325 or F1852 TC Bolts High strength

ASTM F1554 Grade 36 Anchor Rods AWS A5.1 E70XX Welding electrodes

ASTM A36 All other structural shapes A. DELEGATED DESIGN: The design of all

connections is the responsibility of the Contractor and shall be performed by the Contractor's qualified Professional Engineer. See plans for reactions and forces. Submit comprehensive engineering

design calculations, signed and sealed by a Professional Engineer licensed in the state of construction, prior to submitting

B. Connections shall be standard AISC connections using 3/4" dia. high-strength bearing, type N bolts, unless noted

C. All bolted moment and bracing connections shall be slip-critical joints. Faying surfaces in slip-critical joints shall be uncoated. D. Provide standard AISC high-strength bolted

connections for connections of new work to existing steel beams and columns. Drill existing steel to receive new bolted

connections; do not flame-cut holes. E. Minimum depth of shear connections shall be half the beam depth, two bolt minimum.

F. All bolts, nuts, washers and related hardware for exterior and other galvanized steel construction shall be mechanically galvanized according to ASTM B695, Class

G. Provide minimum weld sizes in accordance with AISC 360 Specification for Structural

H. Electrodes shall be suited to grade and

. Use AWS certified welders for structural J. Remove galvanizing from steel in the area

of field welding. Repair abraded surfaces and coat weld with zinc-rich coating.

6. Steel framing shall be properly guyed, aligned and plumbed within AISC tolerances before Base plates shall be shop welded to columns.

8. Cap all HSS and pipe columns with 1/8" plate. 9. Field cutting or burning of structural steel is

> Steel deck shall be manufactured by a member firm of the Steel Deck Institute (SDI) and shall be detailed, fabricated and erected in accordance with SDI specifications.

A. See plans for steel deck type, depth and B. Attach steel deck to supporting steel and fasten side laps in accordance with SDI

C. Deck gauges indicated are minimums based on three span conditions. Contractor shall verify all steel deck shoring requirements and provide temporary shoring in accordance with the steel deck manufacturer. The contractor may elect to provide heavier deck gauges to reduce

temporary shoring requirements. 11. Cap all exterior HSS and pipe sections with 1/4" plates and galvanize. Seal weld to bottom end of member. Fill all vent holes after galvanizing by plugging with zinc plug and grinding off smooth. Maintain permanent weep holes at the base of exposed columns and beams.

- Galvanize exterior exposed steel in accordance 12. with ASTM A 123. Repair scratched or abraded galvanized surfaces with zinc-rich coating. After galvanizing, straighten members to meet AISC standard mill tolerances.
- 13. Galvanize all lintels, shelf angles, beams and plates (including their associated shims, bolts and accessories) in direct contact with the exterior wythe of masonry. Additional members/assemblies shall be galvanized where noted on the drawings.
- Where plates, angles or other miscellaneous members require welding (either field or shop) or slip-critical connections, mask connection surfaces prior to shop priming and touch-up with primer after completing connection.
- 15. Provide adjustability in connections for members supporting the exterior masonry wythe. Permit the following adjustments from the connection work point to compensate for steel erection tolerances:

Horizontal: 1/2" outward or inward Vertical: 1/2" upward or downward

Provide adjustable connections for all members 16 designated as AESS to facilitate adjustment to achieve the specified tolerance.

STEEL STAIRS

- Stairs shall be designed by a professional 1. engineer (engaged by the Contractor) licensed in the state of the project.
- Contractor shall submit signed and sealed shop drawings and calculations from the stair design engineer to the design team for review and incorporate review comments prior to fabrication.
- See architectural drawings for stair locations, dimensions and details.

MASONRY 1. Masonry shall be constructed in accordance

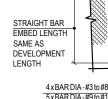
- with TMS 602. All concrete masonry units shall conform to ASTM C90. Provide two-cell units, unless noted otherwise on plans.
- 3. Compressive strength (f'm) of all concrete unit masonry assemblies shall be 2500 psi at 28
- Concrete Unit Masonry Strength: Compressive strength of concrete unit masonry (f'm) may be determined either by strength or individual units, grout strength, and mortar type in accordance with TMS 602 article 1.4.B.2.b or by prism test method in accordance with TMS 602 article 1.4.B.3. Submit data and test results to validate masonry system strength via one of the two referenced methods.
- Use ASTM C270, Type S mortar below grade. Use ASTM C270, Type S mortar for CMU above grade.
- Use ASTM C270, Type N mortar for veneer. Lay CMU in piers, columns, pedestals and partially-grouted walls with face shells and webs fully bedded in mortar. Align vertical cells
- to be grouted. Fully-grouted walls may be bedded with face shells only. Grout for masonry shall conform to ASTM C476 with a minimum 3000 psi compressive strength at 28 days. Provide coarse grout unless
- dimensions of grout spaces and pour heights dictate fine grout according to TMS 602/ACI 530.1/ASCE 6. 10. See architectural drawings for other masonry
- requirements. 11. Lintels for non-bearing walls are shown in loose
- lintel schedule. 12. Lintels for load bearing walls are shown in
- schedule. Grout a minimum of two complete courses solid 13. under bearing for beams and bearing lintels.
- Provide continuous bond beam at top of wall. 14. Reinforce bond beams with 1-#5 continuous.
- 15. Install ladder-type joint reinforcement at 16" o.c. Discontinue joint reinforcing at control joints.
- Provide partition top anchors at the top of non-load bearing masonry walls, spaced per the manufacturer's requirements.
- In existing rubble and brick masonry walls, infill unused joist and beam pockets, openings, or other cavities and recesses with solid masonry. Provide an allowance in bid/pricing for this
- Rebuild masonry jambs when saw cutting new openings into existing masonry walls. Provide an allowance in bid/pricing for this work.
- Coordinate control and expansion joints with architectural drawings and recommendations of the Brick Industry Association and the National Concrete Masonry Association
- 20. Provide shop drawings showing full information for reinforcing steel placement.
- A. Reinforcing steel detailer shall adequately cross reference the structural drawings to the satisfaction of the Engineer.
- B. Reinforcing steel detailer shall develop all wall elevations and sections with pertinent elevations given, to clearly indicate the position of the reinforcement and construction joints, without reproducing sections, plans, or elevations from the design drawings.

- POST-INSTALLED ANCHORS
- Refer to Post Installed Anchor table on sheet 1. S001 for anchor products. Substitution requests for alternate products must be
- approved in writing by the Engineer prior to use. Drill and install post-installed anchors according to manufacturer's printed installation instructions. All holes shall be drilled using the Hilti SafeSet system with Hilti hollow drill bit.
- Anchor capacity is dependent upon spacing between adjacent anchors and distance of anchors to the edge of base material. Anchors shall be installed in accordance with spacing and edge distance requirements indicated on the drawings.
- Do not cut or damage existing reinforcement in concrete or CMU during drilling operations without prior approval from the Engineer. Offset anchor locations to clear existing reinforcement should reinforcing bars be encountered during drilling. It is recommended that the existing concrete or CMU be scanned to locate existing reinforcement prior to drilling for anchors.
- Oversized holes may be provided for field adjustment of the anchors, provided 5/16" thick plate washers are field welded (3/16" all around) to the member. Provide standard holes in plate washers.
- All post-installed anchors shall meet ICC-ES Compliance for each type of application.
- Submit product information and ICC-ES Evaluation Report for each anchor.
- All anchor designs are for installation in the following conditions, unless noted otherwise. Written approval must be received from Engineer prior to installation of adhesive anchors in alternate conditions.
- A. Dry concrete.
- B. Concrete temperature at time of installation must be between 14° F and 104° F. See manufacturer's printed installation instruction for adhesive gel and cure times.
- C. Anchor holes to be hammer drilled D. Anchor holes to be cleaned per manufacturer's printed installation instructions prior to adhesive injection.
- All installers of post-installed anchors shall be Hilti Certified. Submit certificates for record.
- All post-installed anchors in concrete shall be suited for use in seismic and cracked concrete applications.
- Cells at the anchor and one course above and below the anchor shall be grouted solid for expansion or adhesive anchors installed in CMU grouted solid.
- Adhesive anchors in masonry and hollow CMU shall be installed with mesh sleeves.
- Coordinate required holes sizes in steel members with manufacturer's installation requirements and method of installation.
- 14. Testing: 25% of each type and size of drilled-in anchor shall be proof loaded by the independent testing laboratory. Adhesive anchors and capsule anchors shall not be torque tested unless otherwise directed by the Engineer. If any of the tested anchors fail to achieve the specified torque or proof load within the limits as defined in the Drawings, all anchors of the same diameter and type as the failed anchors shall be tested, unless otherwise instructed by the Engineer.
- A. Perform tension testing in accordance with ASTM E488.
- B. Apply torque with a calibrated torque wrench.
- C. Apply proof loads with a calibrated hydraulic ram. Displacement of adhesive and capsule anchors at proof load shall not exceed D/10, where D is the nominal anchor diameter.
- SHORING/SCAFFOLDING
- The contractor shall submit shoring/scaffolding shop drawings and calculations, prepared and sealed by a professional engineer licensed in the state of the project, for the following:
- A. Earthwork sheeting and shoring.
- B. Building/structure support shoring
- C. Scaffolding.
- Shoring and scaffolding shall comply with O.S.H.A. regulations.
- The structural engineer of record (SER) will review shoring/scaffolding submittals only for loads transmitted to the building structure. Submittals shall clearly indicate the location and magnitude of all loads applied to the building or structure. The contractor is responsible for design and performance of the shoring/scaffold system.
- The suggested shoring and scaffolding diagrams or loads shown on the structural drawings have been developed on the basis of the assumed limitations of the existing building's structure, and are intended as an aid to the contractor in preparing their proposal for the shoring/scaffolding of the building. The diagrams shown are not intended to limit or direct the extent of the system to be provided by the scaffold and shoring contractor.

BEAMS, FOOTINGS, & SLABS ≤ 13" DEEP AND VERTICAL BARS IN WALLS								
bar Size	CONDITION	3000 psi CONCRETE	3500 psi CONCRETE	4000 psi CONCRETE	5000 psi CONCRETE			
#3	DEV. LENGTH	17	16	15	13			
#3	CLASS B SPLICE	22	20	19	17			
#4	DEV. LENGTH	22	21	19	17			
#4	CLASS B SPLICE	29	27	25	22			
#5	DEV. LENGTH	28	26	24	22			
#5	CLASS B SPLICE	36	33	31	28			
#6	DEV. LENGTH	33	31	29	26			
#0	CLASS B SPLICE	43	40	37	33			
<i>u</i> -	DEV. LENGTH	48	45	42	37			
#7	CLASS B SPLICE	63	58	54	49			
"0	DEV. LENGTH	55	51	48	43			
#8	CLASS B SPLICE	72	66	62	55			
	DEV. LENGTH	62	57	54	48			
#9	CLASS B SPLICE	81	74	70	63			
#10	DEV. LENGTH	70	64	61	54			
#10	CLASS B SPLICE	91	84	79	70			
#44	DEV. LENGTH	78	72	67	60			
#11	CLASS B SPLICE	101	93	87	78			

DEVELOPMENT LENGTH NOTES:

- 1. SCHEDULE IS BASED ON GRADE 60, UNCOATED REINFORCING IN NORMAL WEIGHT
- 2. CONCRETE STRENGTH INDICATED IS 28-DAY COMPRESSIVE STRENGTH 3. ALL LAP SPLICES SHALL BE CLASS B. UNLESS NOTED OTHERWISE
- 4. CLASS A SPLICE IS THE SAME AS DEVELOPMENT LENGTH.
- 5 WHEN BARS OF DIFFERENT SIZE ARE SPLICED. SPLICE LENGTH SHALL BE THE LARGER OF EITHER DEVELOPMENT LENGTH OF THE LARGER BAR OR SPLICE LENGTH OF THE SMALLER BAR
- 6. FOR HOOKED DOWELS IN FOOTINGS MEETING REQUIREMENTS OF ACI 318 12.5.3.a. THE HOOK LENGTH CAN BE 0.7 x TABLE VALUE.
- . TOP BAR DESIGNATES HORIZONTAL BAR PLACED SUCH THAT MORE THAN 12" OF FRESH NCRETE IS CAST BELOW THE BAR.



CONCRET

22

28

29

CONDITION

DEV. LENGTH

CLASS B SPLICE

DEV LENGTH

CLASS B SPLICE

CLASS B SPLICE

DEV. LENGTH

CLASS B SPLICE

DEV. LENGTH

CLASS B SPLICE

DEV. LENGTH

CLASS B SPLICE

DEV. LENGTH 36

DEV. LENGTH 43

DEV. LENGTH 72

CLASS B SPLICE 93

DEV. LENGTH 91

CLASS B SPLICE 118

CLASS B SPLICE 56

TYPE

INTERIOR SLABS 5" THICK & L

- SLABS ON DECK
- UNDERPINNING

ALL OTHER BUILDING CONCF SITE SLABS

SITE WALLS & FOUNDATIONS

DRAWING INDEX

S001 General Notes & Schedules

Foundation Plans and Sections

S200 Foundation Details and Sections

S300 Framing Details and Sections

S301 Framing Details and Sections

S002 Special Inspection Tables

Roof Details

S400 Underpinning Details

STRUCTURAL

S100

S101

REINFORCING DEVELOPMENT LENGTHS (INCHES)

BEAMS, FOOTINGS, & SLABS > 13" DEEP AND HORI

E	3500 CONC		4000 CONC) psi RETE) psi RETE
HER Ars	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHEI BARS
17	20	16	19	15	17	13
22	26	20	24	19	22	17
22	27	21	25	19	22	17
29	35	27	32	25	29	22
28	33	26	31	24	28	22
36	43	33	40	31	36	28
33	40	31	37	29	33	25
43	52	40	48	37	43	33
48	58	45	54	42	49	37
63	75	58	70	54	63	49
55	66	51	62	47	55	42
72	86	66	80	62	72	55
62	74	57	70	54	63	48
81	97	74	91	70	81	63
70	84	64	79	60	70	54
91	109	84	102	79	91	70
77	93	72	87	67	78	60
101	121	93	113	87	101	78
	STA	NDARD HO	or 7	4xBAR DIA (2½" MIN.)	<u>\</u>	

BAR	CONDITION	CONCRETE STRENGTH					
SIZE	CONDITION	3000 psi	4000 psi	5000 ps			
#4	DEV. LENGTH	11	10	9			
#4	LAP SPLICE	15	13	12			
#5	DEV. LENGTH	14	12	12			
#0	LAP SPLICE	18	16	15			
#6	DEV. LENGTH	17	15	14			
#0	LAP SPLICE	22	19	18			
#7	DEV. LENGTH	20	17	16			
#1	LAP SPLICE	25	22	21			
#8	DEV. LENGTH	22	19	18			
#0	LAP SPLICE	29	25	24			
#9	DEV. LENGTH	25	22	21			
#9	LAP SPLICE	32	28	27			
#10	DEV. LENGTH	28	24	23			
#10	LAP SPLICE	36	32	30			
#11 -	DEV. LENGTH	31	27	26			
#11	LAP SPLICE	40	35	33			

BAR		CONCRETE STRENGTH						
SIZE	3000 psi	3500 psi	4000 psi	5000 psi				
#3	9	8	7	7				
#4	11	11	10	9				
#5	14	13	12	11				
#6	17	16	15	13				
#7	20	18	17	15				
#8	22	21	19	17				
#9	25	23	22	19				
#10	28	26	24	22				
#11	31	29	27	24				

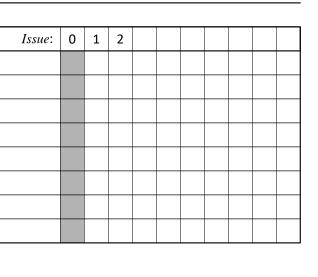
HOOK

CAST-IN-PLACE CONCRETE PROPERTIES SCHEDULE

	28 DAY COMPRESSIVE STRENGTH	MAXIMUM W/C RATIO	*AIR CONTENT (±1%)	NOMINAL AGGREGATE SIZE (ASTM C33 GRADING)
LESS	4,000 psi	0.50		1" (#57)
	3,500 psi	0.55		³ ⁄ ₄ " (#67)
	3,000 psi	0.50	3%	1" (#57)
RETE	4,000 psi	0.55	6%	1" (#57)
	4,000 psi	0.45	6%	1" (#57)
S	4,000 psi	0.45	6%	1" (#57)

* AIR-ENTRAIN CONCRETE SUBJECTED TO FREEZE-THAW ENVIRONMENTS. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.

CAST-IN-PLACE CONCRETE CLEAR COVER FOR REINFORCIN	IG
ТҮРЕ	COVER
Footings	3"
Walls:	
Interior face	3⁄4"
Face permanently exposed to earth or weather	2"
Exterior Slab	1½"
Interior Slab	3⁄4"
Interior Beams & Columns	1½"



Mark B. Thompson Associates Architecture 502 South 24th Street Philadelphia, PA 19146 215.985.1000 www.mbtarchitects.com Keast & Hood Company of New York, PC Structural Engineering 400 Market Street, Suite 1250 Philadelphia, PA 19106 215.625.0099 www.keasthood.com Dimitri J. Ververelli, Inc. Mechanical, Electrical, Plumbing, Fire Protection Engineering 211 North 13th Street Philadelphia, PA 19107 215.496.0000 www.djvinc.com Langan Civil Engineering 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 212.479.5400 www.langan.com **Theatre Projects** Acoustical Design 47 Water Street South Norwalk, CT 06854 203.299.0830 www.theatreprojects.com It is a violation of New York State Law for any person, unless he is acting under the direction of a licensed Professional Engineer or Land Surveyor, to alter an item in any way. If an item bearing the seal of an Engineer or Land Surveyor is altered, the altering Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration. General Notes 1. All dimensions and existing conditions shall be checked and verified by contractor at the site prior to proceeding with the work. 2. Contractor shall inform Architect/ Engineer of any discrepancies on drawings before construction begins. 3. No existing service may be cut without Architect/Engineers's consent. Any existing service severed or damaged shall be replaced at no cost to owner. 4. Contractor must notify Architect/ Engineer at once if hidden existing conditions encountered require design modifications. Issue Issued For Date Bid & Permit 07-06-2022 PRELIMINARY Not For Construction Key Plan **EGNER HALL BUILDING 685** U.S. MILITARY ACADEMY West Point, New York

Project No.: 11300 Date: July 06, 2022

Drawing Title: **General Notes & Schedules**

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	SP	ECIAL INSF	PECTIONS F	ROGRAM - SO	ILS			SPECIAL INSPECTIONS PROGRA	M - STRUCT	URAL STEI	EL (AISC 360 C	CHAPTER N)	
	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	2018 IBC REFERENCE SECTION	REFERENCE STANDARD	COMMENTS		VERIFICATION AND INSPECTION	QC	QA	2018 IBC REFERENCE SECTION	AISC 360 REFERENCE	COMMENTS
	BELOW SHALLOW FOUNDATIONS ARE ADEQUATE		x	1705.6, 1803, 1806		OBTAIN APPROVED GEOTECH REPORT IF APPLICABLE	GENERAL	INSPECTION OF FABRICATORS		Р	1704.2.5		SEE NOTE 2.
	SIGN BEARING CAPACITY		^	1705.6, 1804,				DOCUMENT ACCEPTANCE OR REJECTION OF INSPECTED ITEMS	Р	Р		TABLES N5.4-3, N5.6-3, N6.1	WELDED ELEMENTS, BOLTED ELEMENTS
REACHED PROPER N	MATERIAL		X	1808, 1809, 1810		do.	PLACEMENT OF					110.0-0, 110.1	
CONTROLLED FILL	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	1705.6, 1803, 1804		do.	ANCHOR RODS & OTHER EMBEDMENTS	VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM		Р		SECTION N5.8	
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND	х		1705.6, 1804		do.	SUPPORTING	VERIFY EXTENT OR DEPTH OF EMBEDMENT INTO CONCRETE PRIOR					
	COMPACTION OF COMPACTED FILL PRIOR TO PLACEMENT OF COMPACTED FILL,						STEEL	TO CONCRETE PLACEMENT		Р		SECTION N5.8	
	OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		Х	1705.6, 1804		do.	INSPECTION OF GALVANIZED	EXPOSED CUT SURFACES & EXPOSED CORNERS OR RECTANGULAR HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO	Р			SECTION N5.7	CRACKS SHALL BE REPAIRED C MEMBER REJECTED
	SPECIAL INSPEC	TIONS PRO	GRAM - CO	NCRETE & PRE		ETE	STRUCTURAL STEEL MEMBERS	GALVANIZING					
				2018 IBC			INSPECTION OF	DETAILS SUCH AS BRACING & STIFFENING	Р			SECTION N5.8	
	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE	REFERENCE STANDARD	COMMENTS	STEEL FRAME JOINT DETAILS						
GENERAL			~				FOR COMPLIANCE	MEMBER LOCATIONS	Р			SECTION N5.8	
	INSPECTION OF FABRICATORS		X	1704.2.5	ACI 318: Ch. 20,	SEE NOTE 2.	w/CONSTRUCTION DOCUMENTS	APPLICATION OF JOINT DETAILS AT EACH CONNECTION	Р			SECTION N5.8	
TENDONS, & PLACEN			X	1705.3, 1908.4	25.2, 25.3, 26.6.1-3		PRIOR TO WELDING	WELDER QUALIFACTION RECORDS & CONTINUITY RECORDS	Р	0		TABLE N5.4-1	
WELDING OF REINFORCING STEEL	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706		x	1705.3	AWS D1.4 ACI 318: 26.6.4			WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	Р	Р		TABLE N5.4-1	
				1			-	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	Р		TABLE N5.4-1	
	INSPECT SINGLE, PASS FILLET WELDS 5/16" OR LESS		х	1705.3	AWS D1.4 ACI 318: 26.6.4			AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0		TABLE N5.4-1	
	ALL OTHER WELDS	x		1705.3	AWS D1.4		1		_	_			THE FABRICATOR OR ERECTOR MAINTAIN A SYSTEM BY WITCH
		^		1100.0	ACI 318: 26.6.4		-	WELDER IDENTIFICATION SYSTEM	0	0		TABLE N5.4-1	WELDER WHO HAS WELDED A J MEMBER CAN BE IDENTIFIED
INSPECTION OF ANC	CHORS CAST IN CONCRETE		х	1705.3	ACI 318: 17.8.2			FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)					
VERIFYING USE OF F	REQUIRED DESIGN MIX		х	1705.3,1904.1,1904. 2,1908.2,1908.3	ACI 318: Ch. 19, 26.4.3, 26.4.4	4		- JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) OLEAN INFOR (CONDITION OF OTEL SUBSACE)	0	0		TABLE N5.4-1	
	E PLACEMENT, FABRICATE SPECIMENS			1705 3 1009 10	ASTM C 172			- CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)					
	STS, PERFORM SLUMP AND AIR CONTENT TESTS, AND MPERATURE OF THE CONCRETE	X		1705.3, 1908.10	ASTM C 31 ACI 318: 26.5.2, 26.12			- BACKING LYPE AND FIT (IF APPLICABLE) CONFIGURATION AND FINISH OF ACCESS HOLES	0	0		TABLE N5.4-1	
INSPECTION OF CON APPLICATION TECHN	ICRETE & SHOTCRETE PLACEMENT FOR PROPER	х		1705.3,1908.6, 1908.7,1908.8	ACI 318: 26.5			FIT-UP OF FILLET WELDS	Ŭ	0			
VERIFYING MAINTEN	IANCE OF SPECIFIED CURING TEMPERATURE &		x	1705.3, 1908.9	ACI 318: 26.5.3-5.5			- DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES)	0	0		TABLE N5.4-1	
TECHNIQUES PRESTRESSED	APPLICATION OF PRESTRESSING FORCES	x		1705.3	ACI 318: 26.10		4	- TACKING (TACK WELD QUALITY AND LOCATION)					
CONCRETE		^						CHECK WELDING EQUIPMENT	0			TABLE N5.4-1	
	GROUTING OF BONDED PRESTRESSING TENDONS	x		1705.3	ACI 318: 26.10			CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING	0	0		TABLE N5.4-2	
ERECTION OF PREC	AST CONCRETE MEMBERS		X	1705.3	ACI 318: 26.9		DURING WELDING	- EXPOSURE CONTROL	Ĵ				
	-SITU CONCRETE STRENGTH, PRIOR TO STRESSING ST-TENSIONED CONCRETE & PRIOR TO REMOVAL OF		х	1705.3	ACI 318: 26.11.2			NO WELDING OVER CRACKED TACK WELDS ENVIRONMENTAL CONDITIONS	0	0		TABLE N5.4-2	
SHORES & FORMS FI	ROM BEAMS & STRUCTURAL SLABS K FOR SHAPE, LOCATION & DIMENSIONS OF THE							- WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	0	0		TABLE N5.4-2	
CONCRETE MEMBER			Х	1705.3	ACI 318: 26.11.2			WPS FOLLOWED					
								- SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS					
				DOST INSTAL	LED ANCHOR	S	1			0			
	SPECIAL INS	PECTIONS	PROGRAM		1		_	- SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED		0		TABLE N5.4-2	
				2018 IBC	REFERENCE	COMMENTS	-			Ū		TABLE N5.4-2	
	SPECIAL INS					COMMENTS	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES				TABLE N5.4-2	
	VERIFICATION AND INSPECTION			2018 IBC REFERENCE SECTION	REFERENCE STANDARD		-	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS	0	0		TABLE N5.4-2 TABLE N5.4-2	
INSPECTION OF ANCHORS POST- INSTALLED	VERIFICATION AND INSPECTION			2018 IBC REFERENCE	REFERENCE	COMMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS	s	- PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS				TABLE N5.4-2	
ANCHORS POST- INSTALLED IN HARDENED	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND		PERIODIC	2018 IBC REFERENCE SECTION TABLE 1705.3	REFERENCE STANDARD	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS		0			
ANCHORS POST- INSTALLED	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS			2018 IBC REFERENCE SECTION	REFERENCE STANDARD		S AFTER WELDING	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	0 P	O		TABLE N5.4-2 TABLE N5.4-2	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND	CONTINUOUS X	PERIODIC X X	2018 IBC REFERENCE SECTION TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED	0 P	0 P 0		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS	CONTINUOUS X	PERIODIC	2018 IBC REFERENCE SECTION TABLE 1705.3	ACI 318: 17.8.2	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA	0 P	0 P 0 P		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3 TABLE N5.4-3	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS	CONTINUOUS X	PERIODIC X X	2018 IBC REFERENCE SECTION TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF INSPECTION REQUIRED. SEE GENERAL NOTES FOR	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELDIASSE-METAL FUSION	0 P	0 P 0		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS	CONTINUOUS X	PERIODIC X X	2018 IBC REFERENCE SECTION TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF INSPECTION REQUIRED. SEE GENERAL NOTES FOR	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION WELD PROFILES	0 P	0 P 0 P		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3 TABLE N5.4-3	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE INSPECTION OF AND	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS	CONTINUOUS X FOR LEVEL 3	PERIODIC X FOR LEVEL 2	2018 IBC REFERENCE SECTION TABLE 1705.3 TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF INSPECTION REQUIRED. SEE GENERAL NOTES FOR	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION - CRACK PROHIBITION CRATER CROSS SECTION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE UNDERCUT	0 P	0 P 0 P		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3 TABLE N5.4-3	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE INSPECTION OF AND	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS CHORS INSTALLED IN MASONRY	CONTINUOUS X FOR LEVEL 3	PERIODIC X FOR LEVEL 2	2018 IBC REFERENCE SECTION TABLE 1705.3 TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF INSPECTION REQUIRED. SEE GENERAL NOTES FOR	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WULD SIZE UNDERCUT POROSITY	0 P	0 P P P		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3 TABLE N5.4-3 TABLE N5.4-3	
ANCHORS POST- INSTALLED IN HARDENED CONCRETE INSPECTION OF AND NOTE: OW INSPECTIO OF PROGE	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS CHORS INSTALLED IN MASONRY /NER SHALL ENGAGE THE INI ON AGENCY. CONTRACTOR T RESS OF CONSTRUCTION AN	CONTINUOUS X FOR LEVEL 3	PERIODIC X FOR LEVEL 2 ENT SPE Y INSPE	2018 IBC REFERENCE SECTION TABLE 1705.3 TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF INSPECTION REQUIRED. SEE GENERAL NOTES FOR	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION - WELD/BASE-METAL FUSION CRATER CROSS SECTION - WELD PROFILES - WELD SIZE UNDERCUT - POROSITY ARC STRIKES	0 P	0 P P P		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3 TABLE N5.4-3 TABLE N5.4-3 TABLE N5.4-3	PLATES, CONTINUITY PLATES, C STIFFENERS HAS BEEN PERFORMED IN THE k-AREA,
ANCHORS POST- INSTALLED IN HARDENED CONCRETE INSPECTION OF AND NOTE: OW INSPECTIO OF PROGE	VERIFICATION AND INSPECTION ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS ALL OTHER MECHANICAL ANCHORS AND ADHESIVE ANCHORS CHORS INSTALLED IN MASONRY /NER SHALL ENGAGE THE INI DN AGENCY. CONTRACTOR T	CONTINUOUS X FOR LEVEL 3	PERIODIC X FOR LEVEL 2 ENT SPE Y INSPE	2018 IBC REFERENCE SECTION TABLE 1705.3 TABLE 1705.3	REFERENCE STANDARDACI 318: 17.8.2ACI 318: 17.8.2ACI 530: TABLE	SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS REFER TO MASONRY SECTION FOR LEVEL OF INSPECTION REQUIRED. SEE GENERAL NOTES FOR	_	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION - WELD/BASE-METAL FUSION CRATER CROSS SECTION - WELD PROFILES - WELD SIZE UNDERCUT - POROSITY ARC STRIKES	0 P	0 P P P		TABLE N5.4-2 TABLE N5.4-2 TABLE N5.4-3 TABLE N5.4-3 TABLE N5.4-3 TABLE N5.4-3	PLATES, CONTINUITY PLATES, C STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB FC CRACKS WITHIN 3" OF WELD
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SPECIAL INSPECTIONS PROGRAM - STRUCTURAL STEEL (AISC 360 CHAPTER N)							
	VERIFICATION AND INSPECTION	QC	QA	2018 IBC REFERENCE SECTION	AISC 360 REFERENCE	COMMENTS	
DURING BOLTING	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	0	0		TABLE N5.6-2		
	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	0		TABLE N5.6-2		
	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0		TABLE N5.6-2		
	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0		TABLE N5.6-2		

	SPECIAL INSPECTIONS PROGRA	AM - COLI		D STEEL DECK		
VERIFICATI	ON AND INSPECTION	QC	QA	2018 IBC REFERENCE SECTION	SDI QA/QC REFERENCE SECTION	COMMENTS
GENERAL	INSPECTION OF FABRICATORS		Р	1704.2.5		SEE NOTE 2.
	DOCUMENT ACCEPTANCE OR REJECTION OF INSPECTED ITEMS	Р	Р		TABLES 1.1,1.2,1.5, &1.8	DECK MATERIALS, DECK PLACEMENT, WELDS, & MECHANICAL FASTENERS
PRIOR TO DECK PLACEMENT	VERIFY COMPLIANCE OF MATERIALS (DECK & ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIALS PROPERTIES, AND BASE MATERIAL THICKNESS	Ρ	Р		TABLE 1.1	
AFTER DECK PLACEMENT	VERIFY COMPLIANCE OF DECK & ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	Ρ	Р		TABLE 1.2	
	VERIFY DECK MATERIALS ARE REPRESENTED BY MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS		Р		TABLE 1.2	
PRIOR TO WELDING	WELDING PROCEDURES SPECIFICATIONS (WPS) AVAILABLE	0	0		TABLE 1.3	
	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	0	0		TABLE 1.3	
	MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0		TABLE 1.3	
	CHECK WELDING EQUIPMENT	0	0		TABLE 1.3	
DURING WELDING	USE QUALIFIED WELDERS	0	0		TABLE 1.4	
	CONTROL & HANDLING OF WELDING CONSUMABLES	0	0		TABLE 1.4	
	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	0	0		TABLE 1.4	
	WPS FOLLOWED	0	0		TABLE 1.4	
AFTER WELDING	VERIFY SIZE & LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, & PERIMETER WELDS	P	P		TABLE 1.5	
	WELDS MEET VISUAL ACCEPTANCE CRITERIA	Р	Р		TABLE 1.5	
	VERIFY REPAIR ACTIVITIES	Р	Р		TABLE 1.5	
PRIOR TO MECHANICAL FASTENING	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	0	0		TABLE 1.6	
	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	0	0		TABLE 1.6	
	PROPER STORAGE FOR MECHANICAL FASTENERS	0	0		TABLE 1.6	
DURING MECHANICAL FASTENING	FASTENERS ARE POSITIONED AS REQUIRED	0	0		TABLE 1.7	
	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	0	0		TABLE 1.7	
AFTER MECHANICAL FASTENING	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	Р	Р		TABLE 1.8	
	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	Ρ	Р		TABLE 1.8	
	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	Р	Ρ		TABLE 1.8	
	VERIFY REPAIR ACTIVITIES	Р	Р		TABLE 1.8	

	SPECIAL INSPEC					
	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	ACI 530-16/ ASCE 5-16/ TMS 402-16 SECTION	ACI 530.1-16/ ASCE 6-16/ TMS 602-16 ARTICLE	COMMENTS
GENERAL	PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS		Х		1.5	
	VERIFICATION OF f _m AND f _{AAC} PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE		х		1.4B	
	VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT	х			1.5,1.6.3	
	VERIFICATION OF f_m AND $f_{AAC}FOR$ EVERY 5,000 sq.ft (465 sq. m).		Х		1.5,1.6.3	
	VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.		Х		1.5,1.6.3	
AT START OF MASONRY	PROPORTIONS OF SITE-PREPARED MORTAR		х		2.1, 2.6A,2.6C	
CONSTRUCTION	GRADE. TYPE, & SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES		Х		3.4, 3.6A	
	PRESTRESSING TECHNIQUE		Х		3.6B	
	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		х		2.4B, 2.4H	
	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	х			2.1C.1	CONTINUOUS FOR FIRST 5000 S OF AAC MASONRY, PERIODIC AFTER FIRST 5000 SF OF AAC MASONRY
	SAMPLE PANEL CONSTRUCTION	Х			1.6D	
PRIOR TO GROUTING	GROUT SPACE	Х			3.2D, 3.2F	
	PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		х	10.8,10.9	2.4, 3.6	
	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	х		6.1, 6.3.1, 6.3.6, 6.3.7	3.2E, 3.4	
	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		Х		2.6B, 2.4G.1.b	
DURING CONSTRUCTION	MATERIALS AND PROCEDURE WITH THE APPROVED SUBMITTALS		Х		1.5	
	PLACEMENT OF MASONRY UNITS & MORTAR JOINT CONSTRUCTION		Х		3.3B	
	SIZE & LOCATION OF STRUCTURAL ELEMENTS		Х		3.3F	
	TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	х		1.2.1(e), 6.3.1, 6.2.1		
	WELDING OF REINFORCING BARS	х		6.1.6.1.2		
	PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40°F) OR HOT WEATHER (TEMP. ABOVE 90°F)		х		1.8C, 1.8D	
	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	х			3.6B	
	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	х			3.5, 3.6C	
	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	х			3.3B.9, 3.3F.1.b	C0NTINUOUS FOR FIRST 5000 S OF AAC MASONRY, PERIODIC AFTER FIRST 5000 SF OF AAC MASONRY
	N OF ANY REQUIRED GROUT SPECIMENS, AND/OR PRISMS		х		1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4	

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General Notes

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- no cost to owner. Contractor must notify Architect/ Engineer at once if hidden existing conditions encountered require design modifications.

Issue Issued For

Bid & Permit

PRELIMINARY Not For Construction

Key Plan

EGNER HALL **BUILDING 685**

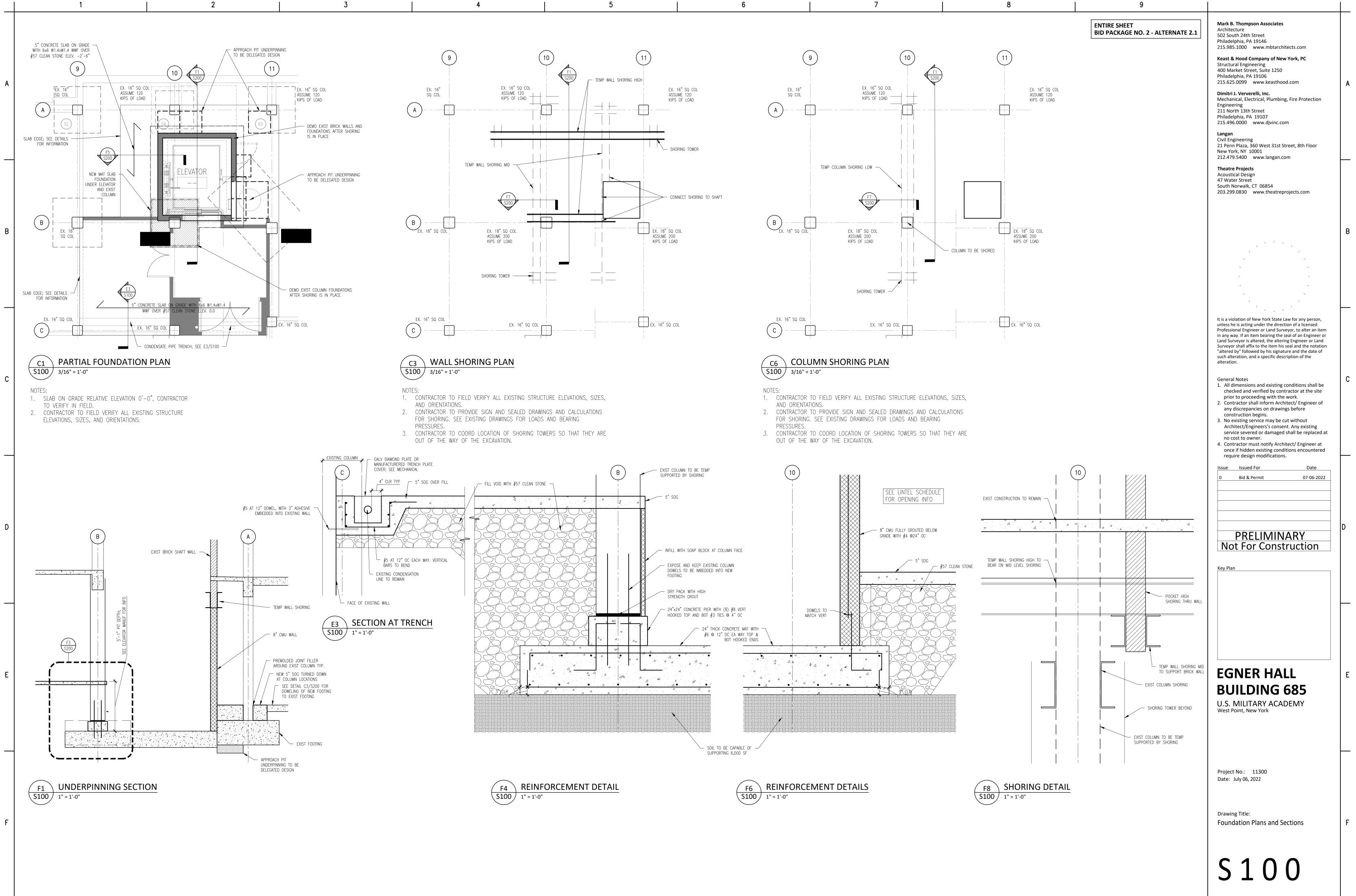
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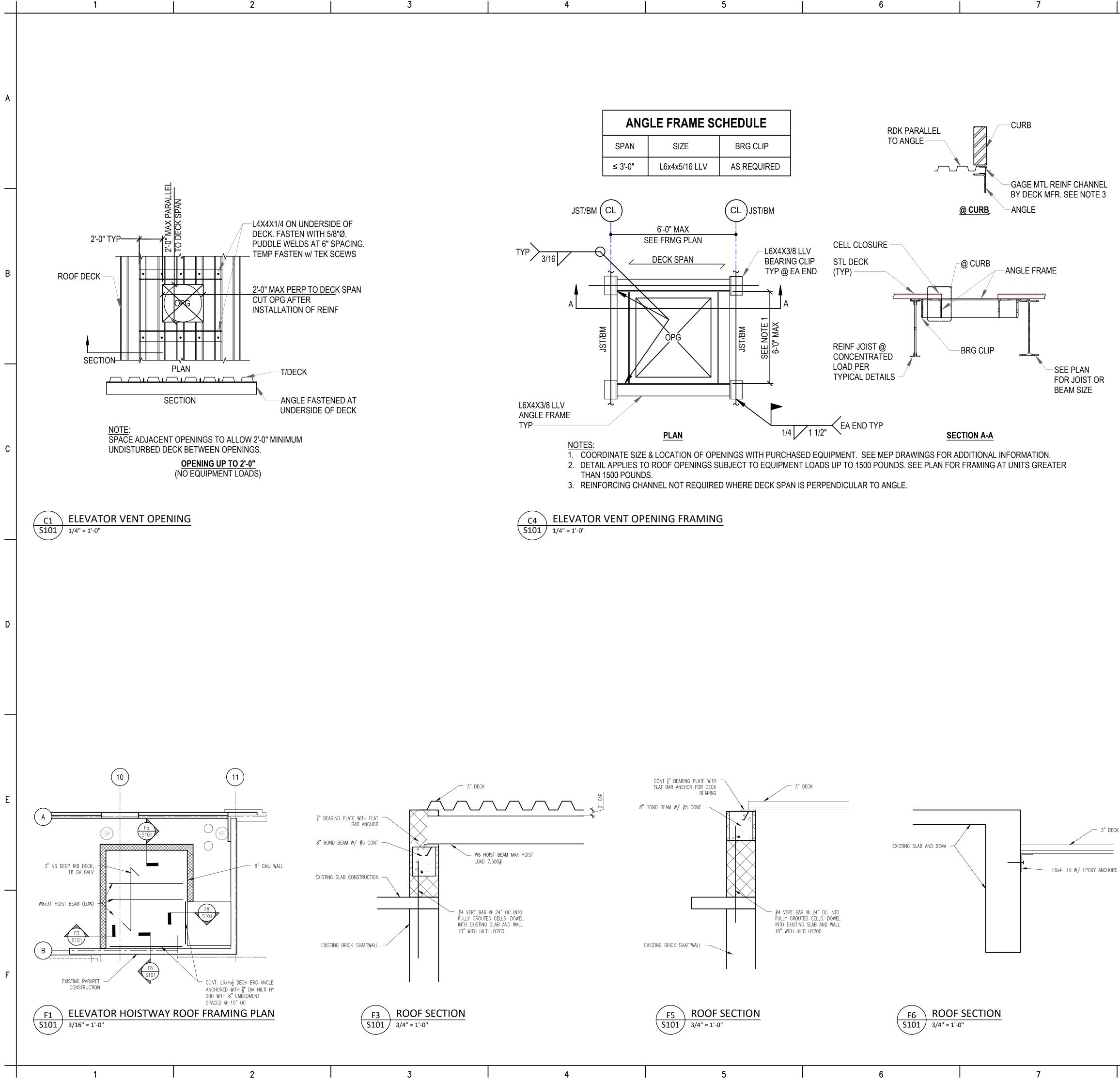
Project No.: 11300 Date: July 06, 2022

Drawing Title: Special Inspection Tables

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EGNER HALL BUILDING 685

U.S. MILITARY ACADEMY West Point, New York

Project No.: 11300 Date: July 06, 2022

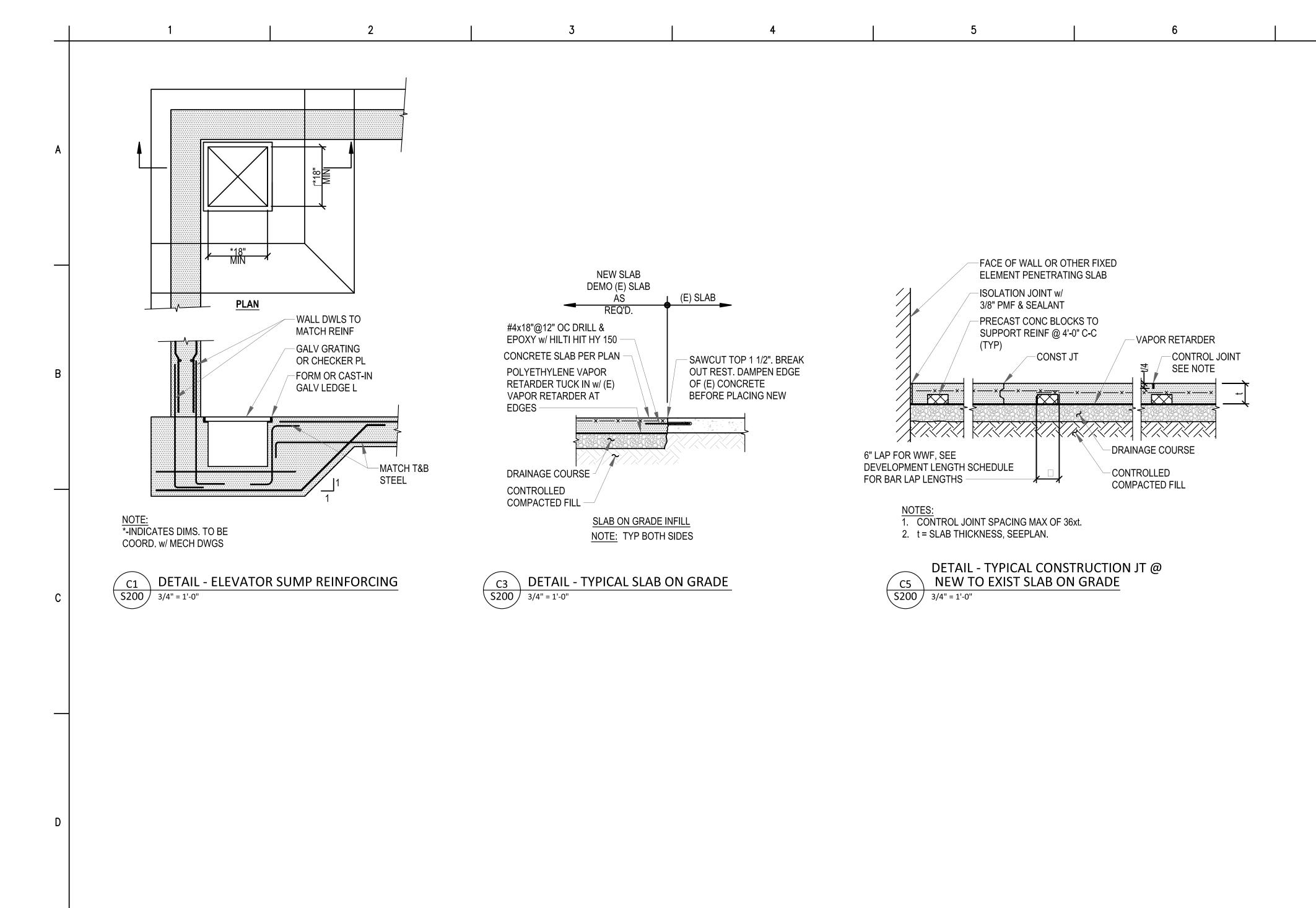
Drawing Title: Exterior Wall & Roof Details

DECK SUPPORT ANGLE -AFTER BEAM IS INSTALLED — PACK TIGHT WITH MASONRY ── W8 HOIST BEAM MAX HOIST LOAD 7,500# ³ BEARING PLATE ON 1"⁻ LEVELING GROUT — BRICK SHAFT WALL ANGLE NOT SHOWN FOR CLARITY

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ENTIRE SHEET BID PACKAGE NO. 2

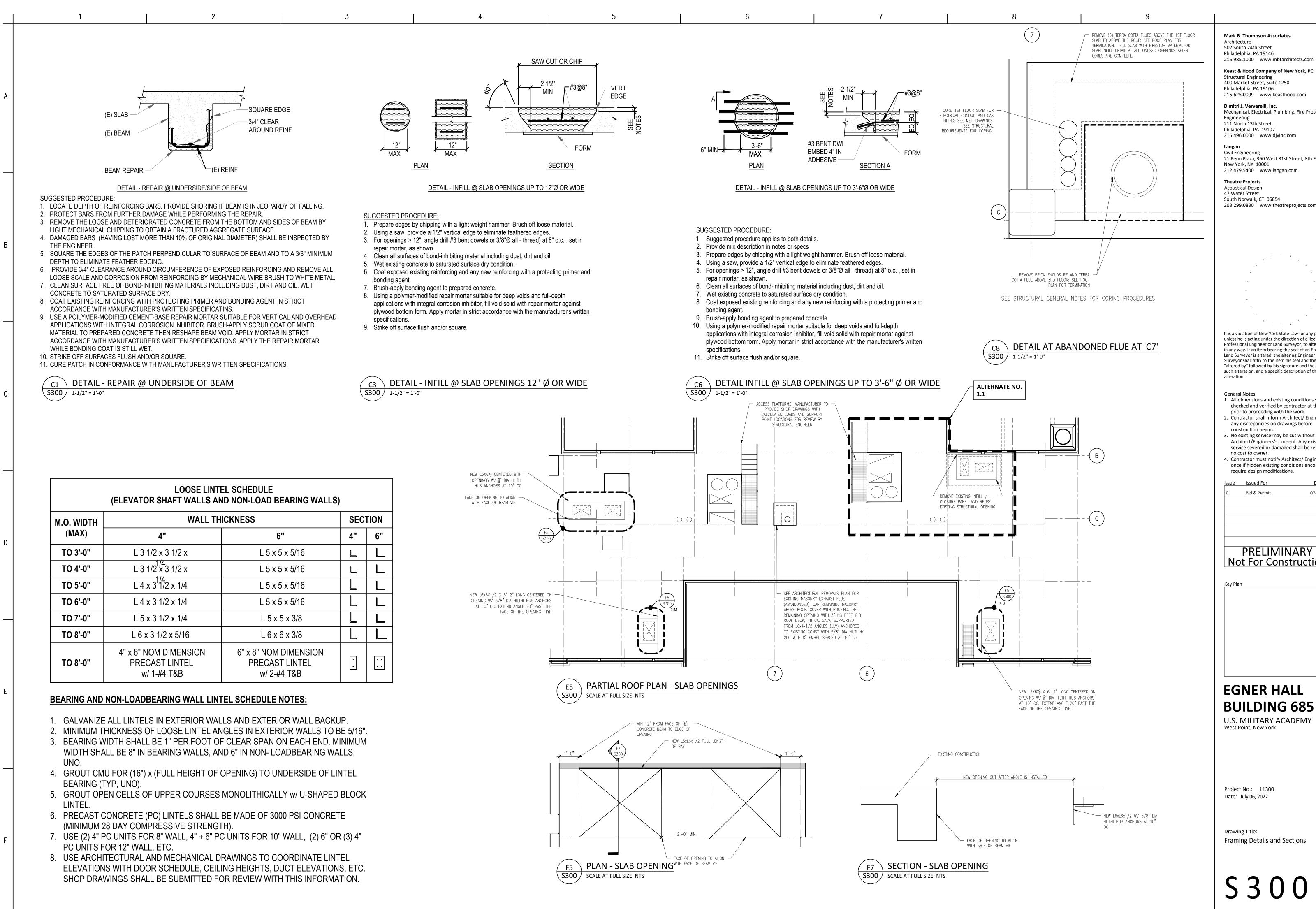
Mark B. Thompson Associates Architecture 502 South 24th Street Philadelphia, PA 19146 215.985.1000 www.mbtarchitects.com Keast & Hood Company of New York, PC Structural Engineering 400 Market Street, Suite 1250 Philadelphia, PA 19106 215.625.0099 www.keasthood.com Dimitri J. Ververelli, Inc. Mechanical, Electrical, Plumbing, Fire Protection Engineering 211 North 13th Street Philadelphia, PA 19107 215.496.0000 www.djvinc.com Langan Civil Engineering 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 212.479.5400 www.langan.com Theatre Projects Acoustical Design 47 Water Street South Norwalk, CT 06854 203.299.0830 www.theatreprojects.com --~ -~ ~ It is a violation of New York State Law for any person, unless he is acting under the direction of a licensed Professional Engineer or Land Surveyor, to alter an item in any way. If an item bearing the seal of an Engineer or Land Surveyor is altered, the altering Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration. General Notes 1. All dimensions and existing conditions shall be checked and verified by contractor at the site prior to proceeding with the work. 2. Contractor shall inform Architect/ Engineer of any discrepancies on drawings before construction begins. 3. No existing service may be cut without Architect/Engineers's consent. Any existing service severed or damaged shall be replaced at no cost to owner. 4. Contractor must notify Architect/ Engineer at once if hidden existing conditions encountered require design modifications. Date Issue Issued For Bid & Permit 07-06-2022 PRELIMINARY Not For Construction Key Plan EGNER HALL **BUILDING 685** U.S. MILITARY ACADEMY West Point, New York Project No.: 11300 Date: July 06, 2022 Drawing Title: Foundation Details and Sections

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		EL SCHEDULE ND NON-LOAD BEARING WALLS)		
M.O. WIDTH (MAX)	WALL THICKNESS			SECTION	
	4"	6"	4"	6"	
TO 3'-0"	L 3 1/2 x 3 1/2 x	L 5 x 5 x 5/16	L		
TO 4'-0"	L 3 1/2 x 3 1/2 x	L 5 x 5 x 5/16	L		
TO 5'-0"	L 4 x 3 ^{1/4} 1/2 x 1/4	L 5 x 5 x 5/16			
TO 6'-0"	L 4 x 3 1/2 x 1/4	L 5 x 5 x 5/16			
TO 7'-0"	L 5 x 3 1/2 x 1/4	L 5 x 5 x 3/8			
TO 8'-0"	L 6 x 3 1/2 x 5/16	L 6 x 6 x 3/8			
TO 8'-0"	4" x 8" NOM DIMENSION PRECAST LINTEL w/ 1-#4 T&B	6" x 8" NOM DIMENSION PRECAST LINTEL w/ 2-#4 T&B		••	

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- 1. ANY ADJACENT OPENINGS WHICH ARE TO BE INFILLED SHOULD BE INFILLED PRIOR TO ANY DEMOLITION
- REMOVE A FULL HEIGHT SECTION OF THE EXISTING MASONRY WALL STRADDLING THE JAMB LINE OF THE NEW MASONRY OPENING. THIS SECTION WILL BE APPROXIMATELY 2'-0" WIDE x FULL WALL THICKNESS. REBUILD JAMB IN BRICK MASONRY, FORMING A MINIMUM 12" SOLID MASONRY JAMB, FULLY TOOTHED INTO THE EXISTING MASONRY. NEW MASONRY JAMBS ARE TO BEAR ON THE EXISTING WALL BELOW.
- REPEAT STEP 2 ON THE OPPOSITE JAMB. REMOVE A HORIZONTAL BAND OF MASONRY APPROXIMATELY 1'-6" HIGH. BY ONE HALF THE WALL THICKNESS AT THE HEAD OF THE NEW OPENING.
- 5. BOLT (2) BEAMS TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8"Ø A36 THREADED RODS. (OMIT IF IT IS A TWO BEAM LINTEL.) INSTALL THE (2) BEAMS BOLTED TOGETHER AND TEMPORARY BLOCKING AT 2'-0" BETWEEN TOP FLANGES AND UNDERSIDE OF EXISTING MASONRY AS NECESSARY. (SEE LINTEL SCHEDULE FOR LINTEL SIZES AND REQ. BEARING). DRY-PACK BEARING ENDS OF BEAMS AND ANY VOIDS BETWEEN BLOCKING AND MASONRY ABOVE WITH NON-SHRINK GROUT. ALLOW GROUT TO CURE 24 HOURS.
- REPEAT STEPS 4 AND 5 ON THE OPPOSITE FACE OF THE WALL 7. DEMOLISH REMAINING MASONRY NECESSARY TO COMPLETE NEW OPENING.
- 8. FOR TWO BEAM LINTELS ONLY, BOLT TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8"Ø A36 THREADED RODS.
- 9. ENCASE LINTELS IN CONCRETE, LEAVING A 2"(+) GAP BETWEEN TOP OF CONCRETE AND THE UNDERSIDE OF THE EXISTING MASONRY. MASONRY ABOVE LINTEL AS NECESSARY WITH BRICK
- 10. WHEN CUTTING NEW OPENING INTO AN EXIST. MASONRY WALL WITH THE FLOOR BELOW.
- 11. USE SIMILAR PROCEDURES WHEN USING PRECAST CMU LINTELS.

SUGGESTED LINTEL INSTALLATION PROCEDURE #3

- 1. ANY ADJACENT OPENING WHICH ARE TO BE INFILLED SHOULD BE
- INFILLED PRIOR TO ANY DEMOLITION. 2. INSTALL (2) SHORING POSTS WITHIN THE EXIST. WIDTH OF WALL OPENING. IF EXIST. LINTELS ARE STEEL BEAMS, REMOVE EXIST.
- 3. REMOVE A FULL HEIGHT SECTION OF THE EXISTING MASONRY WALL MASONRY JAMBS ARE TO BEAR ON THE EXISTING WALL BELOW.
- 4. REPEAT STEP 3 ON THE OPPOSITE JAMB BY ONE HALF THE WALL THICKNESS AT THE HEAD OF THE NEW OPENING.
- 6. BOLT (2) BEAMS TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8" Ø A36 BEAMS BOLTED TOGETHER AND TEMPORARY BLOCKING AT 2'-0" NECESSARY. (SEE LINTEL SCHEDULE FOR LINTEL SIZES AND REQ BEARING). DRY-PACK BEARING ENDS OF BEAMS AND ANY VOIDS ALLOW GROUT TO CURE 24 HOURS.
- 7. REPEAT STEPS 5 AND 6 ON THE OPPOSITE FACE OF THE WALL. 8. DEMOLISH REMAINING MASONRY NECESSARY TO COMPLETE NEW OPENING.
- O.C. WITH 5/8"Ø A36 THREADED RODS.
- PACK THIS GAP WITH NON-SHRINK GROUT AND REBUILD INFILL MASONRY ABOVE LINTEL AS NECESSARY WITH BRICK.
- 11. WHEN CUTTING NEW OPENING INTO AN EXIST. MASONRY WALL WITH FLOOR BELOW.
- 12. USE SIMILAR PROCEDURES WHEN USING PRECAST CMU LINTELS.

 \bigcirc \bigcirc \bigcirc **ELEVATIONS - LINTEL INSTALLATION #1** C1 **S301** / SCALE AT FULL SIZE: NTS B EXISTING OPENING / / / / (5) / ┍┫╾╾╾╾╾╞╵

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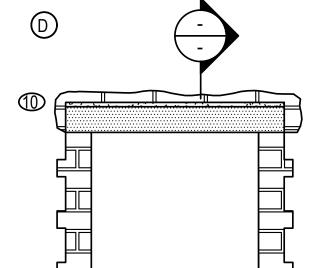
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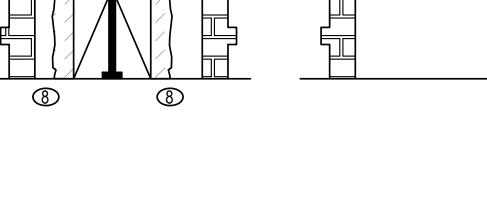
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NEW OPENING

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ELEVATIONS - LINTEL INSTALLATION #3 F1 S301 SCALE AT FULL SIZE: NTS

2

DRY-PACK THIS GAP WITH NON-SHRINK GROUT AND REBUILD INFILL

EXIST. FLOOR FRAMING BEARING ONTO WALL, SHORE FRAMING TO

LINTELS. IF THERE IS AN EXIST. OPENING IN WALL BELOW, CONTINUE THE SHORING DOWN UNTIL THERE IS A SOLID WALL BELOW OPENING. STRADDLING THE JAMB LINE OF THE NEW MASONRY OPENING. THIS SECTION WILL BE APPROXIMATELY 2'-0" WIDE x FULL WALL THICKNESS. REBUILD JAMB IN BRICK MASONRY, FORMING A MINIMUM 12" SOLID MASONRY JAMB, FULLY TOOTHED INTO THE EXISTING MASONRY. NEW

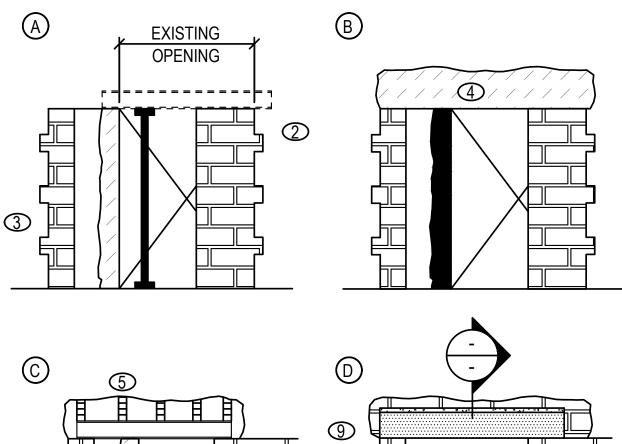
5. REMOVE A HORIZONTAL BAND OF MASONRY APPROXIMATELY 1'-6" HIGH

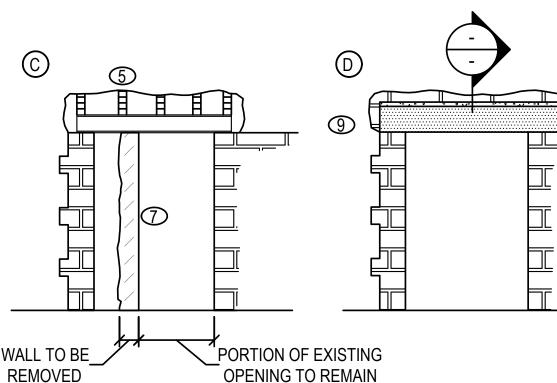
THREADED RODS. (OMIT IF IT IS A TWO BEAM LINTEL.) INSTALL THE (2) BETWEEN TOP FLANGES AND UNDERSIDE OF EXISTING MASONRY AS BETWEEN BLOCKING AND MASONRY ABOVE WITH NON-SHRINK GROUT.

9. FOR TWO BEAM LINTELS ONLY, BOLT TOGETHER AT ENDS AND AT 2'-0"

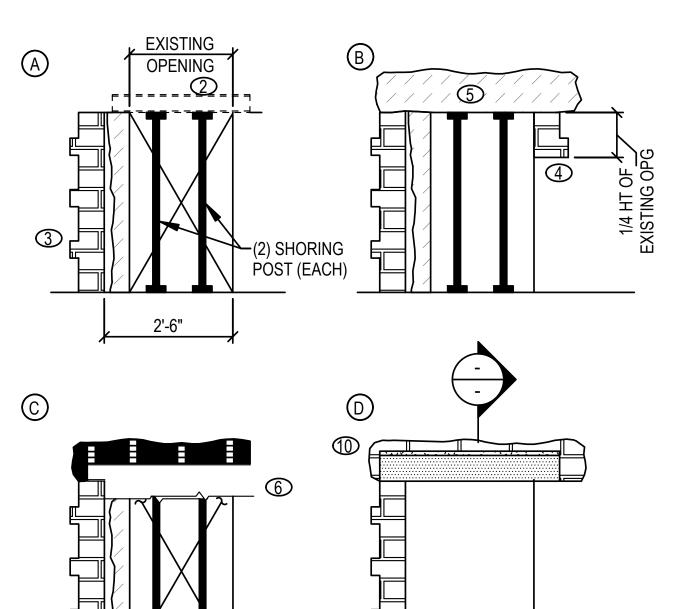
10. ENCASE LINTELS IN CONCRETE, LEAVING A 2"(+) GAP BETWEEN TOP OF CONCRETE AND THE UNDERSIDE OF THE EXISTING MASONRY. DRY-

EXIST. FLOOR FRAMING BEARING ONTO WALL, SHORE FRAMING TO THE











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ELEVATIONS - LINTEL INSTALLATION #4 S301 / SCALE AT FULL SIZE: NTS

SUGGESTED LINTEL INSTALLATION PROCEDURE #2 (SIMILAR FOR INSTALLING AN ADJACENT LINTEL AND NEW ELEVATION)

1. ANY ADJACENT OPENINGS WHICH ARE TO BE INFILLED SHOULD BE INFILLED PRIOR TO ANY DEMOLITION.

INSTALL (2) SHORING POSTS WITHIN THE EXSIT. WIDTH OF WALL OPENING. IF EXIST. LINTELS ARE STEEL BEAMS, REMOVE EXIST. LINTELS & INFILL PORTION OF EXISTING OPENING. IF THERE IS AN EXIST. OPENING IN WALL BELOW, CONTINUE THE SHORING DOWN UNTIL THERE IS A SOLID WALL BELOW OPENING

3. REMOVE A FULL HEIGHT SECTION OF THE EXISTING MASONRY WALL STRADDLING THE JAMB LINE OF THE NEW MASONRY OPENING. THIS SECTION WILL BE APPROXIMATELY 2'-0" WIDE x FULL WALL THICKNESS. REBUILD JAMB IN BRICK MASONRY, FORMING A MINIMUM 12" SOLID MASONRY JAMB, FULLY TOOTHED INTO THE EXISTING MASONRY. NEW MASONRY JAMBS ARE TO BEAR ON THE EXISTING WALL BELOW.

4. REMOVE A HORIZONTAL BAND OF MASONRY APPROXIMATELY 1'-6" HIGH BY ONE HALF THE WALL THICKNESS AT THE HEAD OF THE NEW OPENING.

5. BOLT (2) BEAMS TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8" Ø A36 THREADED RODS. (OMIT IF IT IS A TWO BEAM LINTEL.) INSTALL THE (2) BEAMS BOLTED TOGETHER AND TEMPORARY BLOCKING AT 2'-0" BETWEEN TOP FLANGES AND UNDERSIDE OF EXISTING MASONRY AS NECESSARY. (SEE LINTEL SCHEDULE FOR LINTEL SIZES AND REQ BEARING). DRY-PACK BEARING ENDS OF BEAMS AND ANY VOIDS BETWEEN BLOCKING AND MASONRY ABOVE WITH NON-SHRINK GROUT. ALLOW GROUT TO CURE 24 HOURS

REPEAT STEPS 4 AND 5 ON THE OPPOSITE FACE OF THE WALL 7. DEMOLISH REMAINING MASONRY NECESSARY TO COMPLETE NEW OPENING

8. FOR TWO BEAM LINTELS ONLY, BOLT TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8" Ø A36 THREADED RODS.

9. ENCASE LINTELS IN CONCRETE, LEAVING A 2"(+) GAP BETWEEN TOP OF CONCRETE AND THE UNDERSIDE OF THE EXISTING MASONRY. DRY-PACK THIS GAP WITH NON-SHRINK GROUT AND REBUILD INFILL MASONRY ABOVE LINTEL AS NECESSARY WITH BRICK 10. WHEN CUTTING NEW OPENING INTO AN EXIST. MASONRY WALL WITH EXIST. FLOOR FRAMING BEARING ONTO WALL, SHORE FRAMING TO THE FLOOR BELOW. 11. USE SIMILAR PROCEDURES WHEN USING PRECAST CMU LINTELS.

SUGGESTED LINTEL INSTALLATION PROCEDURE #4

1. ANY ADJACENT OPENINGS WHICH ARE TO BE INFILLED SHOULD BE INFILLED PRIOR TO ANY DEMOLITION.

INSTALL (4) SHORING POSTS WITHIN WIDTH OF WALL OPENING. IF EXIST LINTELS ARE STEEL BEAMS, REMOVE EXIST, LINTELS, IF THERE IS AN EXISTING OPENING IN WALL BELOW, CONTINUE THE SHORING DOWN UNTIL THERE IS A SOLID WALL BELOW OPENING.

3. REMOVE A FULL HEIGHT SECTION OF THE EXISTING MASONRY WALL STRADDLING THE JAMB LINE OF THE NEW MASONRY OPENING. THIS SECTION

WILL BE APPROXIMATELY 2'-0" WIDE x FULL WALL THICKNESS. REBUILD JAMB IN BRICK MASONRY, FORMING A MINIMUM 12" SOLID MASONRY JAMB, FULLY TOOTHED INTO THE EXISTING MASONRY. NEW MASONRY JAMBS ARE TO BEAR ON THE EXISTING WALL BELOW.

4. REPEAT STEP 3 FOR PARTIAL REBUILD OF OPPOSITE JAMB.

5. REMOVE A HORIZONTAL BAND OF MASONRY APPROXIMATELY 1'-6" HIGH BY ONE HALF THE WALL THICKNESS AT THE HEAD OF THE NEW OPENING.

6. BOLT (2) BEAMS TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8" Ø A36 THREADED RODS. (OMIT IF IT IS A TWO BEAM LINTEL.) INSTALL THE (2) BEAMS BOLTED TOGETHER AND TEMPORARY BLOCKING AT 2'-0" BETWEEN TOP

FLANGES AND UNDERSIDE OF EXISTING MASONRY AS NECESSARY. (SEE LINTEL SCHEDULE FOR LINTEL SIZES AND REQ BEARING). DRY-PACK BEARING ENDS OF BEAMS AND ANY VOIDS BETWEEN BLOCKING AND MASONRY ABOVE WITH NON-SHRINK GROUT. ALLOW GROUT TO CURE 24 HOURS.

REPEAT STEPS 5 AND 6 ON THE OPPOSITE FACE OF THE WALL.

8. DEMOLISH REMAINING MASONRY NECESSARY TO COMPLETE NEW OPENING. 9. FOR TWO BEAM LINTELS ONLY, BOLT TOGETHER AT ENDS AND AT 2'-0" O.C. WITH 5/8"Ø A36 THREADED RODS.

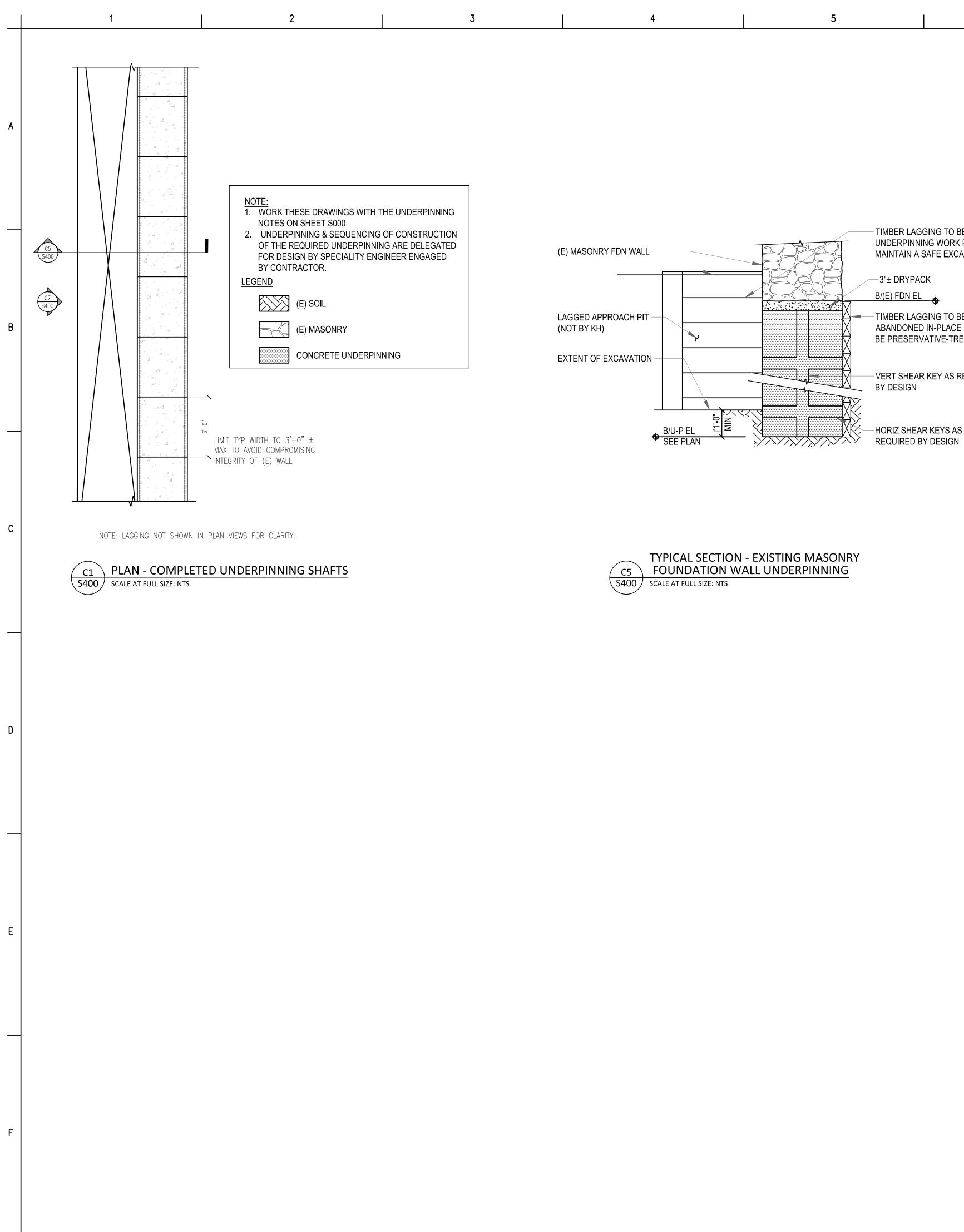
10. ENCASE LINTELS IN CONCRETE, LEAVING A 2"(+) GAP BETWEEN TOP OF CONCRETE AND THE UNDERSIDE OF THE EXISTING MASONRY. DRY-PACK THIS GAP WITH NON-SHRINK GROUT AND REBUILD INFILL MASONRY ABOVE LINTEL AS NECESSARY WITH BRICK.

11. WHEN CUTTING NEW OPENING INTO AN EXIST. MASONRY WALL WITH EXIST. FLOOR FRAMING BEARING ONTO WALL, SHORE FRAMING TO THE FLOOR BELOW. 12. USE SIMILAR PROCEDURES WHEN USING PRECAST CMU LINTELS.

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TIMBER LAGGING TO BE REMOVED AS UNDERPINNING WORK PROGRESSES. MAINTAIN A SAFE EXCAVATION.

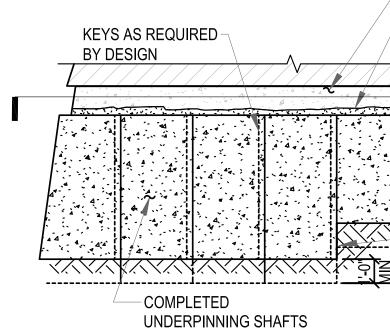
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- 3"± DRYPACK B/(E) FDN EL

- TIMBER LAGGING TO BE ABANDONED IN-PLACE SHOULD BE PRESERVATIVE-TREATED

- VERT SHEAR KEY AS REQUIRED **BY DESIGN**

-HORIZ SHEAR KEYS AS





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		ENTIRE SHEET BID PACKAGE NO. 2 - ALTERNATE 2.1	Mark B. Thompson Associates Architecture 502 South 24th Street Philadelphia, PA 19146 215.985.1000 www.mbtarchitects.com	
			Keast & Hood Company of New York, PC Structural Engineering 400 Market Street, Suite 1250 Philadelphia, PA 19106 215.625.0099 www.keasthood.com	A
			Dimitri J. Ververelli, Inc. Mechanical, Electrical, Plumbing, Fire Protection Engineering 211 North 13th Street Philadelphia, PA 19107	
			215.496.0000 www.djvinc.com Langan Civil Engineering 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001	
	(E) MASONRY FDN WALL DRY-PACKED VOID @ TOP OF UNDERPINNING		212.479.5400 www.langan.com Theatre Projects Acoustical Design 47 Water Street South Norwalk, CT 06854 202.202.000	
			203.299.0830 www.theatreprojects.com	
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-COMPLETED	AS REQUIRED BY D AS REQUIRED BY D CONSTRUCTION SE SEE PLAN SEE PLAN CONTRACTOR'S EN	DESIGN. EQUENCE OF PITS SHED BY		
UNDERPINNING SHAFTS			It is a violation of New York State Law for any person, unless he is acting under the direction of a licensed	
			Professional Engineer or Land Surveyor, to alter an item in any way. If an item bearing the seal of an Engineer or Land Surveyor is altered, the altering Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.	
			 General Notes All dimensions and existing conditions shall be checked and verified by contractor at the site prior to proceeding with the work. Contractor shall inform Architect/ Engineer of 	С
ELEVATION - COMP	LETED UNDERPINNING		 any discrepancies on drawings before construction begins. 3. No existing service may be cut without Architect/Engineers's consent. Any existing service severed or damaged shall be replaced at no cost to owner. 	
			 4. Contractor must notify Architect/ Engineer at once if hidden existing conditions encountered require design modifications. Issue Issued For Date 0 Bid & Permit 07-06-2022 	
			PRELIMINARY Not For Construction	D
			Key Plan	
			EGNER HALL BUILDING 685	E
			U.S. MILITARY ACADEMY West Point, New York	
			Project No.: 11300	_
			Date: July 06, 2022	
			Drawing Title: Underpinning Details	F
			S400	