STRUCTURAL GENERAL NOTES:

DESIGN:

1. All design and construction work for this project shall conform to the 2017 edition of the Florida Building Code (6th Edition).
2. DESIGN LOADS:
   A. Risk Category II
   B. Roof Loads:
      Dead Load .... 20 psf
      Live Load .... 30 psf
      Ground Snow Load .... 0 psf
   C. Wind Load:
      Ultimate Wind Speed .... 169 mph
      Nominal Wind Speed .... 131 mph
      Wind Exposure C
   D. Seismic:
      Spectral response coefficient .... S_{ds} = 0.050, S_{d1} = 0.037
      Site Class .... D (assumed)
      Seismic Design Category .... A

CONSTRUCTION:

1. Furnish all labor, materials and equipment necessary to complete the work shown or implied by these drawings.
2. The General Contractor shall be responsible for verifying all dimensions and elevations with the Architectural and Mechanical drawings and the existing conditions. See Architectural and Mechanical drawings to verify size and location of all openings. Before executing work shown herein, the Contractor shall examine actual job conditions and report to the Engineer any error, omission or difficulty affecting the work.
3. The General Contractor shall be responsible for protecting the existing building during construction.
4. Johnston Burkholder Associates assumes responsibility for the design of the new elements and systems shown on these drawings only. Johnston Burkholder Associates has not designed nor reviewed the design of the existing building in areas unaffected by new construction and accepts no responsibility for the structural adequacy of the existing buiding in areas unaffected by new construction.

CONCRETE:

1. All concrete work shall conform to the American Concrete Institute Standard Building Code Requirements for Reinforced Concrete (ACI 318) and the latest applicable recommendations of the ACI Manual of Standard Practice.
2. Materials shall conform with:
   A. Cement–ASTM C150 Type I or II
   B. Aggregate–ASTM C33
   C. Water – Potable
3. All concrete used in the work shall have a minimum compressive (f'c) strength at 28 days of 4000 psi.
4. Unless noted otherwise in the Specifications, provide concrete with 4"±1" slump.
5. Refer to specifications for concrete testing.
6. Refer to specifications for floor flatness, F(f), and floor levelness, F(l), requirements.

CAST–IN–PLACE CONCRETE–EXECUTION:

1. All concrete is reinforced unless specifically noted as "unreinforced". Reinforce all concrete not otherwise shown with the same steel as shown in similar sections. Comply with ACI 304, "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete".
2. Cold weather conditions: When the average daily air temperature for 3 consecutive days is expected to be below 40 deg F and the air temperature does not exceed 50 deg F for more than 12 consecutive hours during this time, all concrete placement shall comply with the provisions of ACI 306 and as herein specified. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
3. Hot weather conditions: When elevated temperatures, humidity, and wind factors exist, all concrete shall comply with the provisions of ACI 305 and as herein specified.
4. Perform curing of concrete by curing and sealing compound, by moist curing, moisture–retaining cover curing, or by combinations thereof.
5. Post–installed anchors shall be installed in accordance with the Manufacturers Printed Installation Instructions (MPII). If anchors are to be installed in a horizontal or upward direction personnel shall be trained to install adhesive anchors through the ACI/CRSI Adhesive Anchor Installer Certification Program.

REINFORCING STEEL:

1. All concrete and masonry reinforcing steel shall be ASTM A615 Grade 60.
2. All welded wire fabric shall be ASTM A185 cold drawn wire. Lap 1 mesh spacing minimum at all splices.
3. Accessories shall be as specified in the latest edition of Concrete Reinforcing Steel Institute Design Handbook "Placing Reinforcing Bars". Locate and support reinforcing by metal chairs, runners, bolsters, spacers, and hangers, as required to secure against displacement. Maximum accessory spacing shall be 4'–0" on center.

STRUCTURAL STEEL:

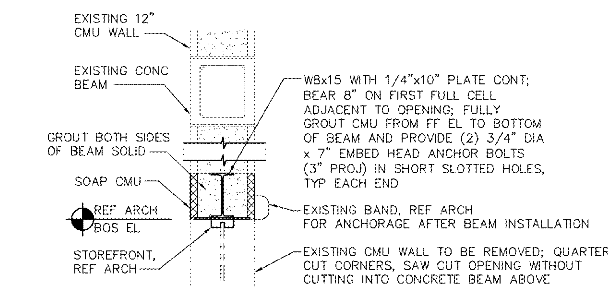
1. All structural steel shall be ASTM A36 for shapes and plates. W shapes shall be ASTM A992 or ASTM A572, Grade 50. Structural tubes shall be ASTM A500, Grade C. Fabrication and erection shall be in accordance with the latest edition of AISC Manual of Steel Construction.
2. All structural steel shall have one shop coat of rust inhibitor primer paint conforming to the specifications. Field touch up all unpainted, nicked and welded areas.

MASONRY:

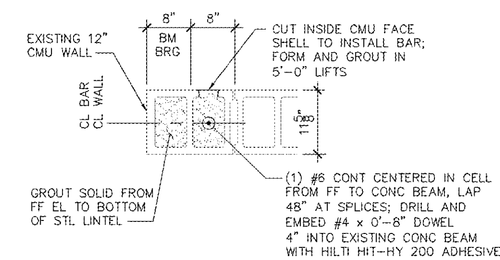
1. All concrete masonry units shall conform to ASTM C 90 specifications and shall be placed in running bond unless noted otherwise. Concrete masonry units shall be either light weight or medium weight density.
2. Concrete masonry shall have a minimum prism compressive strength, f'm, of 2000 psi. Minimum unit compressive strength shall be 2000 psi. All mortar for masonry shall be Type S, mortar cement in accordance with ASTM C 270. Masonry cement is not allowed.
3. Masonry grout shall have a 28 day compressive strength of 2000 psi. Masonry contractor shall submit grout mix design for review prior to construction. Grouted cells shall be placed in low lifts not to exceed 4'–8". All grouted cells shall be mechanically vibrated using a low energy device not greater than 1" in diameter. Do not use concrete vibrator.
4. Masonry may be placed using normal procedures when temperatures are between 40–90 degrees F. When temperatures are above this range, hot and cold weather masonry procedures outlined in the Specification for Masonry Structures (ACI 530.1/ASCE 6/TMS 602) shall be followed. When temperatures are above 100 degrees or 90 degrees with an 8 mph wind, "Hot weather procedures" must be followed. Using calcium chloride is not allowed.
5. Work in progress shall be inspected and materials, equipment and procedures evaluated for quality and acceptability by qualified personnel. Requirements for materials and construction of masonry shall be in accordance with the Specifications for Masonry Structures (ACI 530.1/ASCE 6/TMS 602).

SPECIAL INSPECTIONS:

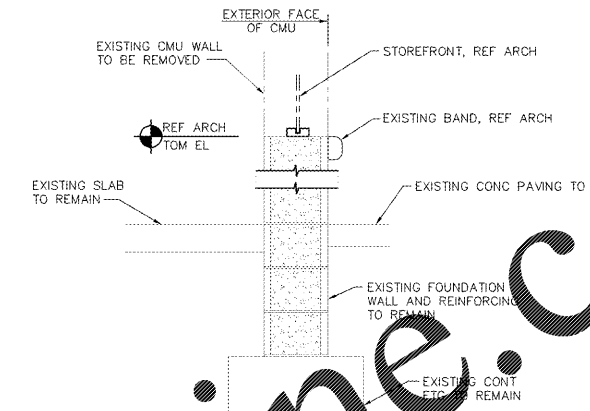
1. Special inspections shall be performed as noted below. All special inspectors shall be qualified for inspection of the particular type of construction requiring special inspection and must be approved by the building official. Reports shall be submitted to the building official, architect, and engineer of record in a timely manner.
2. Types of work requiring special inspection:
   A. Masonry
      a. During construction, one grout sample shall be taken.
      b. The placement of vertical reinforcement and the grouting of walls shall be observed during the initial and final grout pours.
      c. Anchor bolt placement and grouting below beams shall be inspected prior to the initial and final grout pours.
   B. Concrete – Refer to specifications for concrete testing.
   C. Structural Steel
      a. Qualifications of welding procedures and welders shall be verified prior to start of work. Periodic inspections shall be made of work in progress and a visual inspection of all welds shall be made prior to completion.
      b. Periodic inspection of single–pass welds.



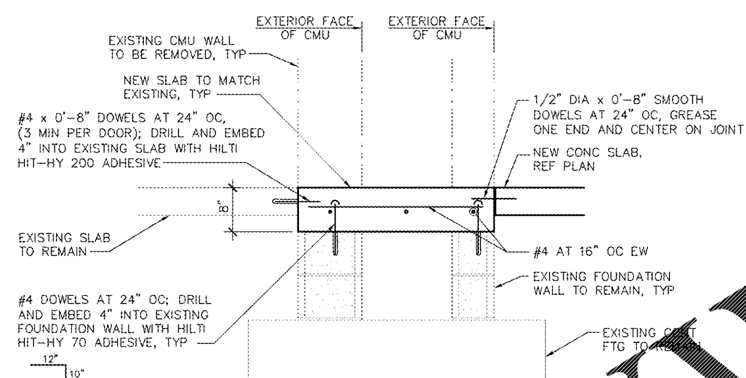
1 LINTEL AT NEW OPENING
3/4"=1'–0"



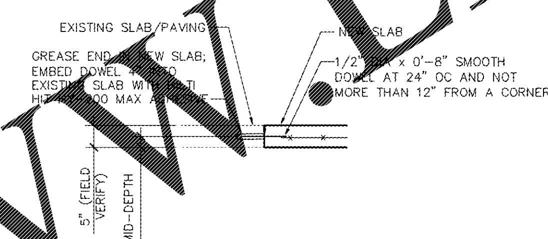
2 JAMB REINF AT NEW OPNG
3/4"=1'–0"



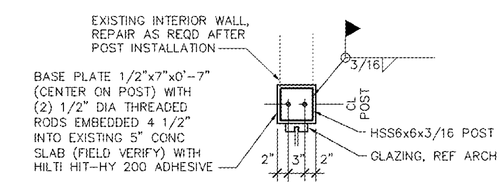
3 SECTION AT NEW WINDOW
3/4"=1'–0"



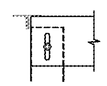
4 SLAB INFILL AT REMOVED WALLS
3/4"=1'–0"



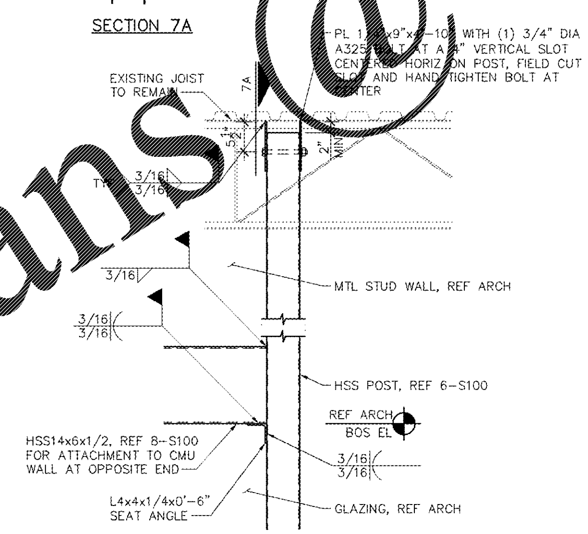
5 CONSTRUCTION JOINT AT EXISTING SLAB
NTS



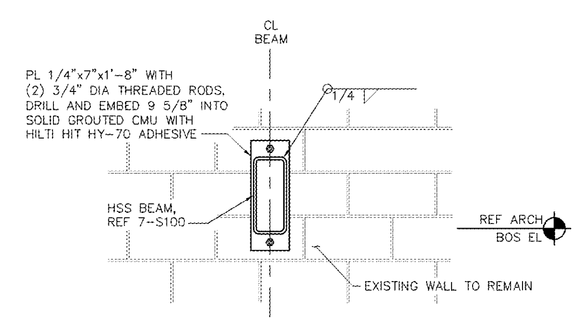
6 POST AT NEW INTERIOR WALL
3/4"=1'–0"



SECTION 7A



7 FRAMING AT NEW INTERIOR WALL
3/4"=1'–0"



8 BEAM ATTACHMENT TO EXISTING WALL
3/4"=1'–0"

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PROJECT
Office DEPOT
STORE #0409
BOCA RATON, FL
4901 N. FEDERAL HIGHWAY
BOCA RATON, FL 33431

ISSUE DATE: 11/09/18
STORE NUMBER: #0409
LEASABLE AREA: 29,701 S.F.
GROSS FLOOR AREA: 28,928 S.F.
JOB NUMBER: 2018.0120.00

ISSUE

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SHEET
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S100

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