

**GENERAL NOTES:**

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES. INCONSISTENCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- ALL WORK SHALL COMPLY WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND 2009 INTERNATIONAL EXISTING BUILDING CODE (IEBC).
  - ORIGINAL DESIGN LOADS (CODE): BOCA 1978
  - CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT USED DOES NOT EXCEED EXISTING BUILDING DESIGN LOADS OF 8,000 LBS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS.
- THE REPAIRS TO THIS STRUCTURE HAVE BEEN DESIGNED TO RE-ESTABLISH THE STRUCTURAL INTEGRITY OF THE STRUCTURE AFTER THE REPAIRS ARE COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING THE RESTORATION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, TEMPORARY PARTITIONS, VEHICLE AND PEDESTRIAN PROTECTION, GUYS OR TIE DOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF PROJECT.
- SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SUBMITTALS (AS NOTED IN THE SPECIFICATIONS) FOR ALL PARTS OF THE WORK INCLUDING DESCRIPTION OF SHORING AND CONSTRUCTION METHODS AND SEQUENCING, WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO VEHICLES, PROPERTY AND PUBLIC CAUSED BY THEIR WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND GOVERNMENT FEES AS REQUIRED. THE CONTRACTOR SHALL COMPLY WITH CODES, ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS OF THE PUBLIC AUTHORITY, WHICH BEAR ON THE PERFORMANCE OF THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING THE PROJECT. A SCHEDULE FOR SPACES REQUIRED SHALL BE PRESENTED TO THE OWNER OR GARAGE MANAGER ONE WEEK IN ADVANCE AND UPDATED WEEKLY DURING THE PROJECT.
- THE EXISTING BUILDING SHALL REMAIN IN OPERATION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CONTROLS NECESSARY TO ALLOW FOR THE BUILDING OPERATIONS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN REQUIRED DUST BARRIERS, BARRICADES, PROTECTION AND WARNING LIGHTS IN GOOD WORKING CONDITION UNTIL COMPLETION OF WORK REQUIRING SUCH PROTECTION AND THEN REMOVE THE SAME. ALL SIGNS, BARRIERS, AND BARRICADES SHALL COMPLY WITH FEDERAL STATE AND LOCAL LAWS AND REGULATIONS.
- CONTRACTOR SHALL MAINTAIN PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL AND RUBBISH. PRECAUTIONS SHOULD BE TAKEN TO MINIMIZE DUST FROM ENTERING THE BUILDING. ALL DUST AND DEBRIS CREATED BY THE WORK WITHIN THE BUILDING SHALL BE REMOVED AND THE WORK AREAS CLEANED.
- CONTRACTOR SHALL DETERMINE THE NEED FOR ALL DISCONNECTION AND/OR TEMPORARY OR PERMANENT ROUTING OF EXISTING UTILITIES, INCLUDING ELECTRICAL AND PLUMBING AND COORDINATE WITH THE GARAGE OWNER/MANAGER.
- IF WORK RESTRICTS ACCESS TO ANY MEANS OF EGRESS CONTRACTOR SHALL SUPPLY ALL TEMPORARY SIGNAGE, BARRIERS TO REDIRECT PATRONS TO THE NEAREST EXIT OR DOWN THE RAMP. A MINIMUM OF ONE STAIR TOWER MUST REMAIN COMPLETELY ACCESSIBLE DURING THE WORK. IF ACCESS TO THE ELEVATOR IS RESTRICTED AT ANY LEVEL PROVIDE SIGNAGE INDICATING NO ACCESSIBLE PARKING ON THAT LEVEL.
- 10 PARKING SPACES WILL BE AVAILABLE TO THE CONTRACTOR MONDAY THROUGH FRIDAY. ADDITIONAL PARKING SPACES ARE AVAILABLE ON THE WEEKEND. CONTRACTOR TO PROVIDE ALL TRAFFIC OPERATIONS DURING CONSTRUCTION.

**DESIGN:**

- BUILDING CODE: IBC 2009
- VEHICLE BARRIER DESIGN LOADS: 6,000 LBS CONCENTRATED LOAD
- PEDESTRIAN GUARDRAIL DESIGN LOADS: 50 PLF OR 200 LB CONCENTRATED LOAD
- THE EXISTING MASONRY FACADE SYSTEM IS TO BE REMOVED AND REPLACED WITH A STEEL BUMPER AND CABLE GUARDRAIL SYSTEM. GRAVITY AND LATERAL FORCES IMPARTED ONTO THE EXISTING STRUCTURE HAVE BEEN DETERMINED NOT TO INCREASE WITH THE WORK THAT IS SCHEDULED TO BE PERFORMED. THE LOAD-CARRYING CAPACITY OF THE STRUCTURE WILL NOT BE DECREASED WITH THE WORK THAT IS SCHEDULED TO BE PERFORMED.
- EXISTING BUILDING HAS BEEN EVALUATED USING THE "PRESCRIPTIVE METHOD" PER CHAPTER 3 OF IEBC.

**STRUCTURAL STEEL NOTES**

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
- STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHER WISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS: ASTM A992
- STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS. PROVIDE SLIP CRITICAL (SC) CONNECTIONS AT ALL MOMENT CONNECTIONS, BRACED FRAMES, RELIEVING ANGLES AND AS OTHERWISE NOTED. USE A490 BOLTS WHERE INDICATED.
- WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN)
- PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BLOTS ETC., SHOWN ON THE DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.
- ALL FASTENERS SHALL BE GALVANIZED.
- ALL STEEL SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE NOTED.

**FABRICATION**

- SHOP ASSEMBLY: PRE-ASSEMBLE ITEMS IN THE SHOP TO GREATEST EXTENT POSSIBLE PRIOR TO GALVANIZING. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES. CLEARLY MARK UNITS FOR REASSEMBLE AND COORDINATED INSTALLATION.
- CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH, UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
- FORM BENT-METAL CORNERS TO SMALLEST RADIUS POSSIBLE WITHOUT CAUSING GRAIN SEPARATION OR OTHERWISE IMPAIRING WORK.
- FABRICATE EXPOSED WORK TRUE TO LINE AND LEVEL WITH ACCURATE ANGLES AND SURFACES AND STRAIGHT EDGES.
- WELD CORNERS AND SEAMS CONTINUOUSLY TO COMPLY WITH THE FOLLOWING:
  - USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE OF BASE METALS.
  - OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP.
  - REMOVE WELDING FLUX IMMEDIATELY.
  - AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO NO ROUGHNESS SHOWS AFTER FINISHING AND CONTOUR OF WELDED SURFACE MATCHES THAT OF ADJACENT SURFACE.
- PROVIDE FOR ANCHORAGE OF TYPE INDICATED; COORDINATE WITH SUPPORTING STRUCTURE. SPACE ANCHORING DEVICES TO SECURE METAL FABRICATIONS RIGIDLY IN PLACE AND TO SUPPORT INDICATED LOADS.
- ALL STEEL ELEMENTS ARE TO BE HOT-DIPPED GALVANIZED INCLUDING PLATES, ANGLES AND TUBING UNLESS OTHERWISE NOTED.

**PAINTING NEW & EXISTING STEEL:**

- MAINTAIN ENVIRONMENTAL CONDITIONS (TEMP, HUMIDITY AND VENTILATION) WITHIN THE LIMITS RECOMMENDED BY THE MANUFACTURER FOR OPTIMUM RESULTS. DO NOT APPLY COATINGS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.
- FIELD PAINT ALL FIELD WELDED CONNECTIONS AND PUNCHED HOLES. PROVIDE THREE COAT SYSTEM ON ALL FIELD PAINTING.
- OLD COATINGS SHOULD BE TESTED FOR LIFTING. IF LIFTING OCCURS, REMOVE THE LIFTED COATING. REMOVE ALL CRACKED AND PEELING PAINT.
- PREP ALL EXPOSED STEEL TO SSPC-SP6 COMMERCIAL BLAST CLEANING. CLEAN STEEL REMOVE ALL RUST AND CORROSION. NOTIFY ENGINEER OF SEVERE SECTION LOSS OF ELEMENTS.
- PRIOR TO COATING ALL SURFACES MUST BE DRY, CLEAN, FREE OF OIL, GREASE, FORM RELEASE AGENTS, CURING COMPOUNDS, LANTANCE, OTHER FOREIGN MATTER AND BE STRUCTURALLY SOUND.
- COMPLY WITH ALL MANUFACTURERS RECOMMENDATIONS.
- PRIMER, INTERMEDIATE AND TOP COAT ARE TO BE DIFFERENT COLORS SO OWNER REPRESENTATIVE CAN CONFIRM THAT EACH COAT HAS BEEN APPLIED.
- MANUFACTURER: SHERWIN WILLIAMS OR PPG PITTSBURGH PAINTS. REFERENCE SPECIFICATIONS FOR APPROVED PRODUCTS.
- STEEL BEAMS, COLUMNS, AND MISC ITEMS.
  - 1ST COAT: EPOXY PRIMER
  - 2ND COAT: EPOXY INTERMEDIATE COAT
  - 3RD COAT: POLYURETHANE TOP COAT

**GUARDRAIL CABLE NOTES**

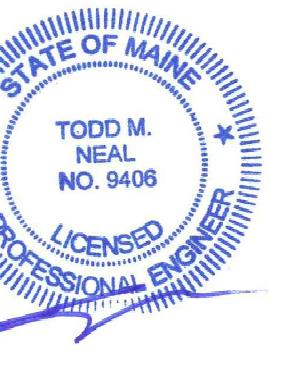
- ALL WORK SHALL CONFORM TO THE POST TENSIONING INSTITUTES (PTI) GUIDE SPECIFICATION "SPECIFICATION FOR SEVEN-WIRE PRESTRESSING STEEL STRAND FOR BARRIER CABLE APPLICATIONS."
- ALL STRAND SHALL BE 1/2"Ø GRADE 250 (MINIMUM) AND GALVANIZED PER ASTM A 475 CLASS A.
- ALL WEDGE TYPE ANCHORS SHALL BE CAPABLE OF DEVELOPING 95% OF THE MINIMUM ULTIMATE BREAKING STRENGTH OF THE BARRIER CABLE.
- BARRIER CABLE INSTALLATION SHALL BE PERFORMED BY PTI CERTIFIED INSTALLERS.
- INSTALLATION:
  - THE SYSTEM SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT AND BE CONSTRUCTED SUCH THAT A 4"Ø SPHERE SHALL NOT PASS THROUGH ANY OPENING.
  - PROPERLY CALIBRATED STRESSING EQUIPMENT SHALL BE SUPPLIED FOR THE PARTICULAR APPLICATION AND BARRIER CABLE SYSTEM THAT IS NECESSARY TO PERFORM THE WORK.
  - AT INTERMEDIATE COLUMNS, PROVIDE A HOLE WHICH IS A MINIMUM OF 1/8"Ø LARGER THAN THE BARRIER STRAND DIAMETER USED (INCLUDING COATING).
  - ALL ANCHORAGES SHALL BE BACKSTRESSED. THE CABLE SHALL BE STRESSED TO 80% OF MINIMUM ULTIMATE TENSILE STRENGTH (MUTS). ANY DAMAGE TO CABLE COATINGS DUE TO THIS PROCESS SHALL BE REPAIRED WITH 2 COATS OF ZRC COLD GALVANIZING.
  - BARRIER CABLE TAILS SHALL BE REMOVED TO WITHIN 1" OF END OF ANCHORS USING A METAL CUT-OFF SAW OR A HYDRAULIC SHEAR. ALL ENDS SHALL BE COATED WITH 2 COATS OF ZRC COLD GALVANIZING.
  - JACK CABLES AS REQUIRED TO BACKSTRESS AND SEAT ANCHORS.

**SHOTCRETE NOTES:**

- PREPARATION:**
- PREPARE EXISTING WALL SURFACE BY SANDBLASTING OR OTHER APPROVED METHOD TO REMOVE PAINT AND TO PROVIDE A SURFACE PROFILE OF CSP-6.
  - SATURATE SURFACE WITH CLEAN WATER. SUBSTRATE SHOULD BE SATURATE SURFACE DRY (SSD) WITH NO STANDING WATER DURING SHOOTING OPERATIONS.
- INSPECTION:**
- INSPECT ALL SURFACES PRIOR TO APPLICATION OF SHOTCRETE TO INSURE PROPER PREPARATION AND SURFACE DRYING.
  - CONFORM TO THE MANUFACTURER'S PREPARATION INSTRUCTIONS.
- REPAIR:**
- APPLICATION SHALL BE IN ACCORDANCE WITH ACI 506.2-CURRENT EDITION.
  - SHOTCRETE NOZZLEMAN SHALL BE ACI CERTIFIED.
  - INSTALL SHOTCRETE MATERIAL AS PER MANUFACTURER'S RECOMMENDATIONS. DO NOT EXCEED THE MAXIMUM THICKNESS SPECIFIED BY MANUFACTURER. DO NOT FEATHER EDGES.
  - SHOTCRETE OPERATIONS SHALL NOT OCCUR WHEN AMBIENT TEMPERATURE IS BELOW 40° F OR ABOVE 90° F.
  - CURING SHALL BE AS SPECIFIED BY MANUFACTURER AND AS PER ACI.
  - PROVIDE TROWLED FINISH SURFACE.

**CURTAIN WALL NOTES**

- PROVIDE CURTAIN WALL SYSTEM OF SIMILAR CONSTRUCTION, COLOR AND MATERIALS TO THAT OF THE ADJACENT STOREFRONT SYSTEM. TO THE GREATEST EXTENT POSSIBLE MATCH MANUFACTURER AND CURTAIN WALL ASSEMBLY.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- PROVIDE SHOP DRAWINGS AND MATERIAL/PRODUCT CUT SHEETS TO THE OWNER/ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR FOR PRODUCT INSTALLED.
- SHOP ASSEMBLY: PRE-ASSEMBLE ITEMS IN THE SHOP TO GREATEST EXTENT POSSIBLE. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES. CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALLATION.
- CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH, UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
- FORM EXPOSED WORK TRUE TO LINE AND LEVEL WITH ACCURATE ANGLES AND SURFACES AND STRAIGHT EDGES.
- FASTENING TO IN-PLACE CONSTRUCTION: PROVIDE ANCHORAGE DEVICES AND FASTENERS WHERE METAL FABRICATIONS ARE REQUIRED TO BE FASTENED TO IN-PLACE CONSTRUCTION. PROVIDE THREADED FASTENERS FOR USE WITH CONCRETE AND MASONRY INSERTS, TOGGLE BOLTS, THROUGH BOLTS, LAG BOLTS, WOOD SCREWS, AND OTHER CONNECTORS.
- PROVIDE ALUMINUM CLOSURES BETWEEN CURTAIN WALL JAMB AND ADJACENT STEEL COLUMNS. CLOSE OFF EXISTING STEEL BEAMS WITH TREATED WOOD BLOCKING AND ALUMINUM CLOSURES.



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FORE STREET PARKING FACILITY  
 PORTLAND, MAINE  
 PHASE 10  
 GENERAL NOTES

Designed	JMM	Scale	AS NOTED
Drawn	RJB	Date	10/26/16
Checked	JMM	Becker Job Number	3904

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