General

1. These notes are to be read in conjunction with these drawings. In the event of conflict between the information on the drawings and these notes, the more stringent requirements shall govern.

2. Contractor shall verify all dimensions and existing conditions before beginning work. Check with electrical and mechanical contractors for conduits, pipe sleeves, etc., to be embedded in concrete, and masonry. Contractor shall take field measurements and be responsible for same.

3. It is the contractor's responsibility to provide adequate shoring and bracing during construction to account for all forces, including but not limited to; forces from gravity, earth, wind, and unbalanced forces due to construction sequence.

4. For conditions not expressly shown use details shown for obviously similar conditions.

5. No openings shall be made in any structural member unless specifically shown on the structural drawings or unless approved in writing by the Structural Engineer.

6. Reproductions, in whole or in part, of Engineer's design documents, shall not be used as shop drawing plans and/or details.

Design

1. The design of the structure is in accordance with the 2021 Wisconsin Building Code, Latest Edition

2. Warning: The structural integrity of the building shown on these plans is dependent upon completion according to plans and specifications. Structural members are not self-bracing and shall be shored and/or braced by the contractor as necessary until stabilized by virtue of completed connections.

Loads

1. Wind Loads:
   - A. Ultimate Wind Speed: 107 MPH
   - B. Exposure Category: D
   - C. Importance Factor: 1.0

2. Snow Loads:
   - A. Ground Snow Load (Pg): 30 PSF
   - B. Exposure Factor (Ce): 0.9
   - C. Thermal Factor (Ct): 1.0
   - D. Importance Factor (I): 1.0

3. Earthquake Loads:
   - A. Ss: 0.072g
   - B. S1: 0.047g
   - C. Seismic Design Category: A
   - D. Seismic Site Class: D
   - E. Importance Factor (I): 1.0

Performance Criteria

1. Sculpture Sway/Drift 1-1/2" maximum

Structural Steel

1. All structural steel work shall conform to A.I.S.C., "Specification for Structural Steel Buildings," and A.I.S.C., "Code of Standard Practice for Steel Buildings and Bridges", Latest Editions.

2. Structural steel shall conform to the latest edition of the following ASTM designations:
   - A. Structural steel shapes, except bars and plates: A-992 Grade 50 having a minimum yield strength of 50 ksi or A-572, Grade 50 having a minimum yield strength of 50 ksi unless noted otherwise on the plans.
   - B. Steel bars and plates shall be ASTM A-572 Grade 50. (Fy=50 ksi).
   - C. Hollow Structural Sections (Rectangular, Square and Round) - A500, Grade B having a minimum yield strength of 46 ksi (Rectangular and Square) or 42 ksi (Round).
   - D. Steel Pipe - A-501 having a minimum yield strength of 36 ksi or A-53 Grade B type E or S having a minimum yield strength of 35 ksi.

3. Bolts shall conform to the following ASTM designation, latest edition: anchor rods - F1554, Grade 55 unless noted otherwise on the drawings. All bolts shall be snug tight unless noted slip critical or S. C. on plans unless otherwise noted. All bolts that carry loads in tension shall be fully pretensioned. All bolted moment connections should use slip critical bolts with Class A faying surface.

4. All anchor rods shall be 1" diameter, open holes 17/16" diameter, unless otherwise shown or noted. Use high strength bolts for steel framing connections.

5. All welding electrodes shall conform to the E-70 series of the specification for mild steel arc welding electrodes ASTM A233, latest edition.

6. All welding shall be done by certified, licensed welders and shall be in conformance with the structural welding code of the American Welding Society ANSI/AWS D1.1-latest edition.

7. No penetrations are permitted through structural steel members unless indicated on structural drawings or approved by Engineer.

8. Approval of the engineer shall be mandatory for the use of cutting torch in the field.

9. All grout under steel plates shall be non-shrink "pre-mix" type and shall have a minimum compressive strength of 5,000 psi, tested in accordance with concrete specifications. Use non-staining grout at exposed locations.

10. All structural steel shall be painted with one shop-applied coat of rust inhibiting primer after surface preparation by SSPC 3 "power tool cleaning", unless noted otherwise. Do not paint portions of steel members that are to receive spray-on fireproofing, nor surfaces to receive welded shear studs. Steel structure that is permanently exposed on the exterior shall be hot dip galvanized according to ASTM A123.

11. Reproductions, in whole or in part, of Engineer's design documents, shall not be used as shop drawing plans and/or details.

Field Drilled Adhesive Anchors

1. Field drilled adhesive bolts shall be Hilti HVA or H.I.T. System Adhesive Anchors as manufactured by HILTI Fastening Systems, Inc., or ITW Ramset/Redhead, Powers Fasteners, or Simpson Strong-Tie Anchor Systems equivalents.

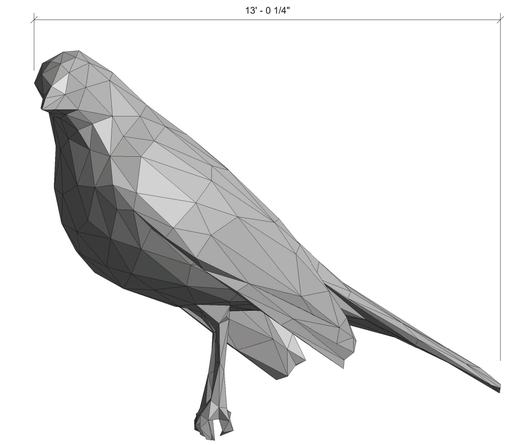
2. Anchors shall be installed per contract documents and per manufacturer's recommendations in coordination with special testing by an independent testing agency. Where the provisions of the above referenced documents are in conflict, the most restrictive requirement shall govern.

3. Do not drill through existing embedded reinforcing steel. Locate existing reinforcing steel, create templates and adjust locations of holes in members being attached to clear existing embedded reinforcing.

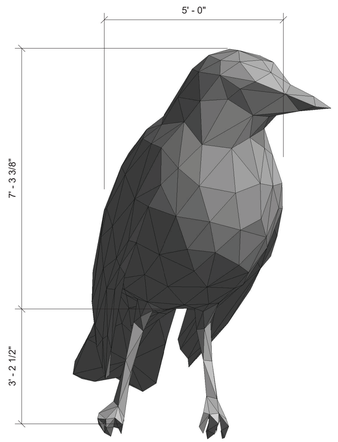
4. Do not exceed minimum or maximum bolt spacings or edge distance shown on the manufacturer's literature.

5. All abandoned holes drilled in the concrete shall be completely filled with epoxy.

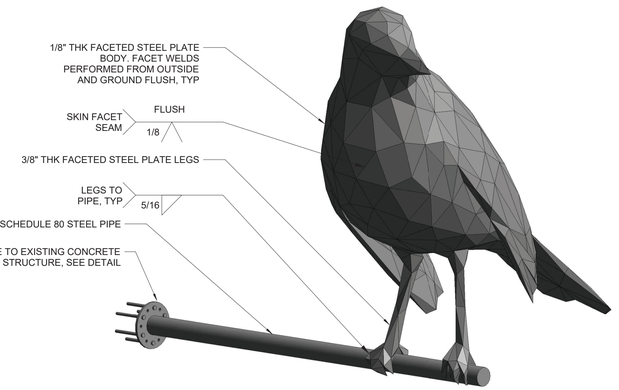
6. Typically, holes in connection plates shall be no more than 1/16" larger than the adhesive anchor rod diameter. If larger diameter holes are used for erection purposes the contractor must provide plate washers. Plate washers must be welded to the connection plate to transfer the load. Welding must take place after holes are drilled, but prior to adhesive installation to avoid burning the adhesive.



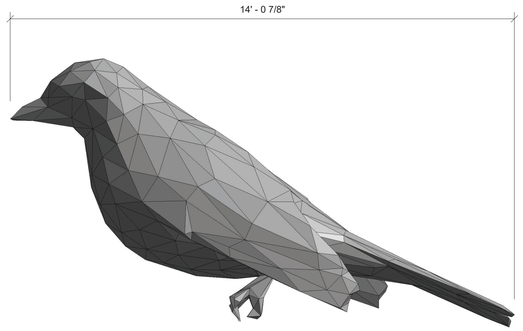
03 TALL BIRD ELEVATION - SIDE
1/2" = 1'-0"



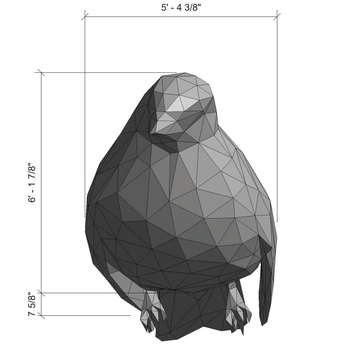
02 TALL BIRD ELEVATION - FRONT
1/2" = 1'-0"



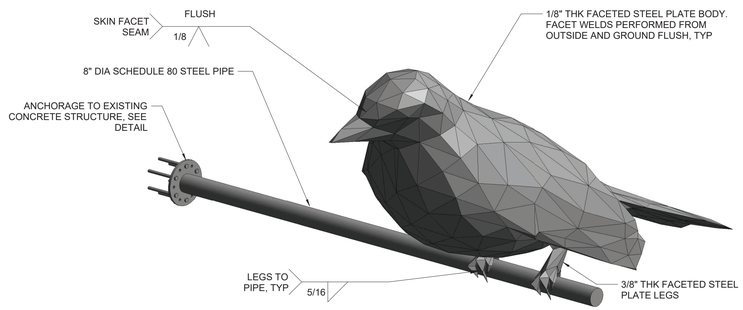
01 TALL BIRD - AXONOMETRIC VIEW



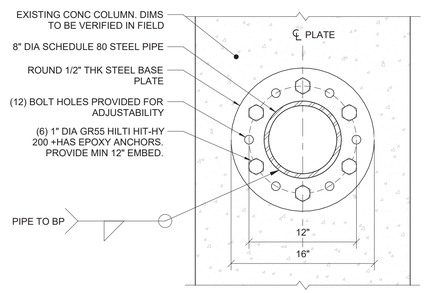
06 SHORT BIRD ELEVATION - SIDE
1/2" = 1'-0"



05 SHORT BIRD ELEVATION - FRONT
1/2" = 1'-0"



04 SHORT BIRD - AXONOMETRIC VIEW



NOTES:

1. CONTRACTOR SHALL SCAN AND AVOID EXISTING REBAR PRIOR TO DRILLING
2. CONTRACTOR TO SEQUENCE INSTALLATION TO PLACE TOP CENTER ANCHOR FIRST, INSTALL REMAINING ANCHORS IN EVERY SECOND HOLE AS SHOWN ABOVE. OTHER BOLT HOLES MAY BE UTILIZED IF NECESSARY TO AVOID EXISTING REBAR

07 TYPICAL BASE PLATE DETAIL
1 1/2" = 1'-0"

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ISSUE	DATE	DESCRIPTION
00	07/17/2026	DD100 PERMIT SET

REVISIONS

PROJECT:
STATE STREET GARAGE INSTALLATION

SEAL & SIGNATURE:

WISCONSIN NATHANIEL M. STANTON E-102132-6 NEW YORK NY PROFESSIONAL ENGINEER

CRAFT Engineering Studio

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DATE:	07/17/2026
PROJECT NO.:	CR-26042
DRAWN BY:	JC
CHECKED BY:	CGF

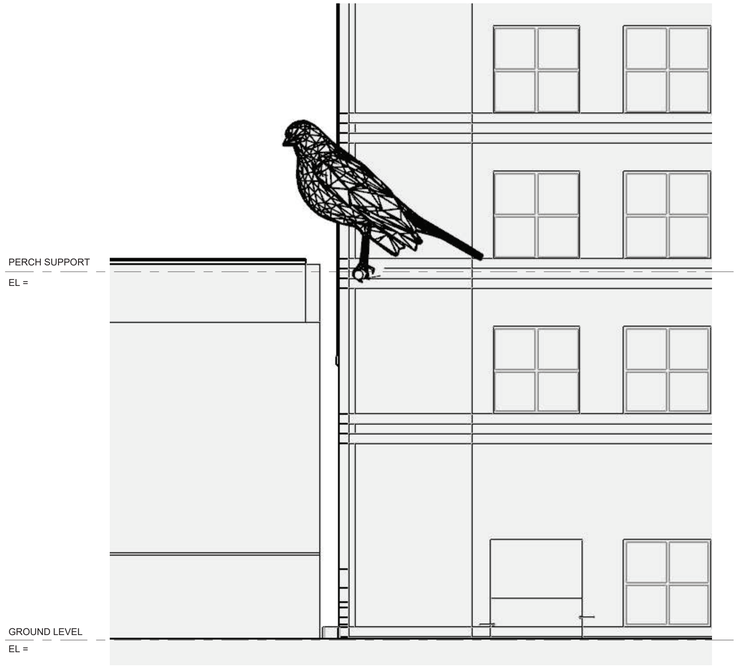
DRAWING TITLE:
STRUCTURAL NOTES & DRAWINGS

DRAWING NO.:
S-001

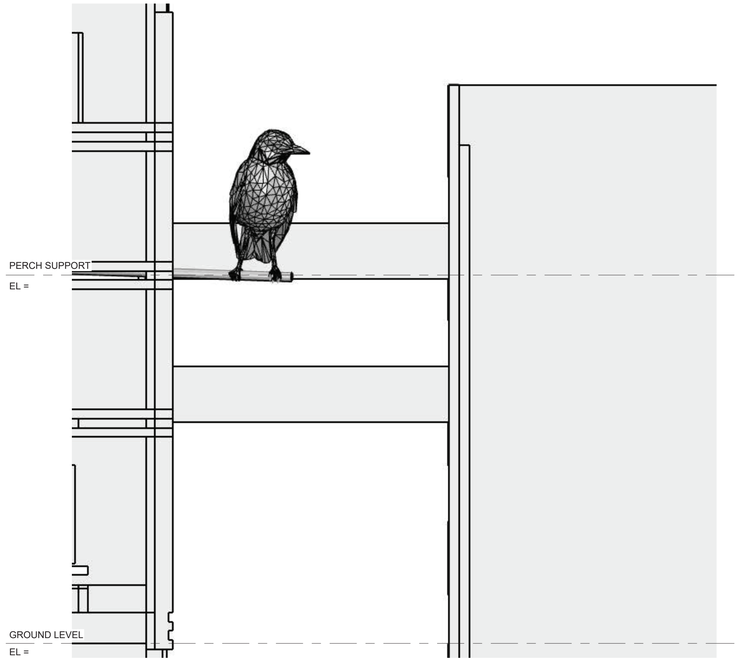
PAGE: 1 of 2

DRAWING NOTES:

1. APPROXIMATE LOCATION OF SCULPTURES INDICATED FOR COORDINATION WITH BUILDING AND ARTIST TEAM. FINAL LOCATION TO BE DETERMINED PENDING CONCRETE REBAR LOCATION DETERMINATION IN FIELD.

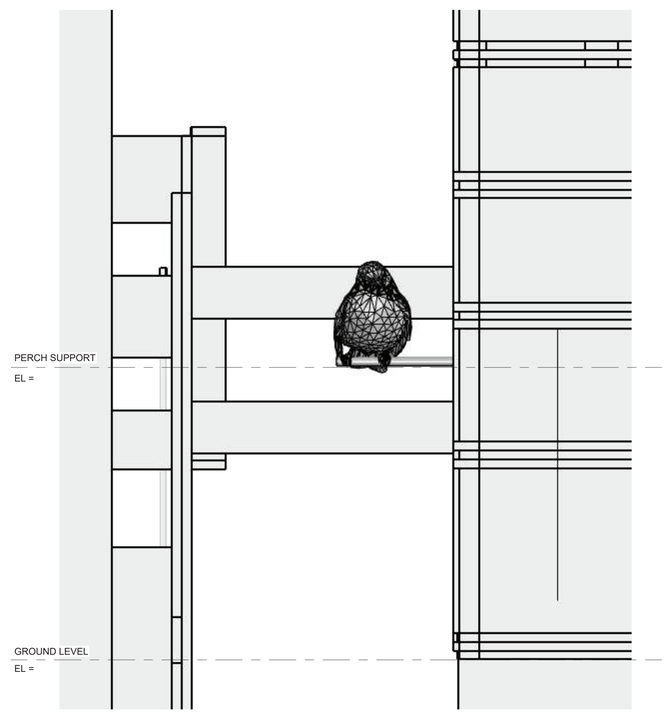


02 TALL BIRD SITE CONTEXT - SIDE
1" = 1'-0"



01 TALL BIRD SITE CONTEXT - FRONT
1" = 1'-0"

04 SHORT BIRD SITE CONTEXT - SIDE
1" = 1'-0"



03 SHORT BIRD - FRONT
1" = 1'-0"

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DATE:	07/17/2026
PROJECT NO.:	CR-26042
DRAWN BY:	JC
CHECKED BY:	CGF

DRAWING TITLE:
LOCATION & SITE CONTEXT

DRAWING NO.:
S-002