

# OPRF PARKING STRUCTURE STAIR/ELEVATOR ENCLOSURE

OAK PARK, ILLINOIS

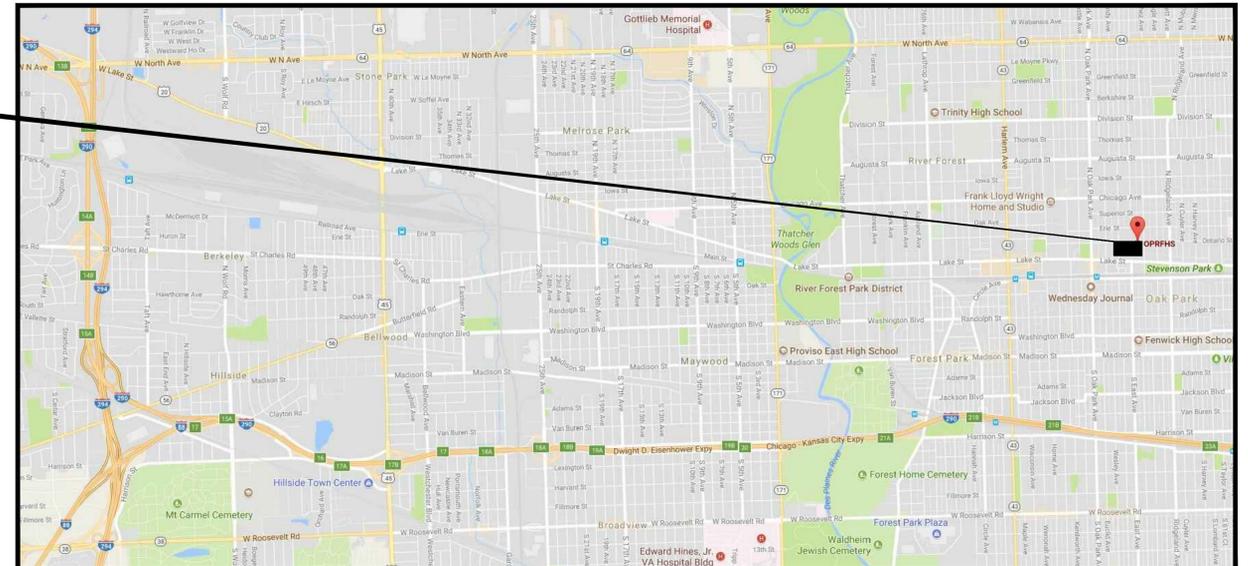
PROJECT No.: 31-008786.00



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R-000	COVER SHEET
R-001	GENERAL NOTES
R-101	PARTIAL LEVEL 2 PLAN
R-102	STAIR/ELEVATOR ENCLOSURE ENLARGED PLAN
R-201	STAIR/ELEVATOR ENCLOSURE ELEVATIONS & SECTION
R-501	STRUCTURAL DETAILS
R-502	WINDOW AND DOOR DETAILS

PROJECT SITE



LOCATION MAP



**2018 ILLINOIS ACCESSIBILITY CODE STATEMENT OF COMPLIANCE**

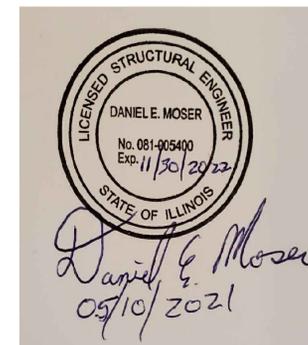
I have prepared, or caused to be prepared under my direct supervision, the attached plans and specifications and state that, to the best of my knowledge and belief and to the extent of my contractual obligation, they are in compliance with the Environmental Barriers Act [410 ILCS 25] and the Illinois Accessibility Code (71 Ill. Adm. Code 400).

Signed: Kristen Navaid

SEAL ILLINOIS REGISTRATION NO: 001-021889

Date: MAY 28, 2021

1 MAY 28, 2021



**ISSUED FOR CONSTRUCTION  
MAY 28, 2021**

GENERAL NOTES

A. CONSTRUCTION

- 1. The Contractor shall perform Work in accordance with all applicable Federal, State, and Local Codes, Laws and Ordinances, including Fire Codes. The Contractor shall promptly notify the Engineer of any known nonconformity with the intent of the Construction Documents and as-built conditions to the applicable Codes, Laws or Ordinances and request clarification from the Engineer prior to proceeding with Work which is deemed in conflict with the applicable Codes, Laws or Ordinances.
2. All material properties shall be as noted in the Drawings.
3. Prior to fabrication of any material or placement of concrete, field verify all existing dimensions and conditions shown on Drawings. Report all discrepancies to the Engineer immediately.
4. Do Not Scale Drawings.

B. CONSTRUCTION DOCUMENTS

- 1. Work shall be performed in coordination with construction observations by the Engineer to determine if the exposed existing construction is as assumed in the design.
2. Dimensions shown on plans are based on original construction documents. The Contractor is required to field verify all conditions for the purpose of preparing the bid and performing the Work.
3. Refer to Drawings for scope, description, and requirements of Work.
4. The Construction Documents were developed using the following code:
2018 International Building Code (IBC) with amendments.

- 5. There is no electrical work involved at all with construction of this enclosure.

MAY 28, 2021

C. EXISTING STRUCTURE

- 1. Construction Documents rely on the original construction documents, including:
Enlarged Plans, Elevations, and Sections
By Urban Design Group, Inc.
Issued for Bid February 24, 2003

- 2. The Existing Structure was assumed to be designed per the following building codes
Unknown

D. DESIGN LIVE LOADS

- 1. Design wind loads are determined in accordance with ASCE 7-16 per the 2018 International Building Code (IBC):

a. ASCE 7-16:

Wind design criteria

- 1) Basic wind speed 114 mph
2) Wind load importance factor (Iw) 1.00
3) Wind exposure B

- 2. It is the Contractor's responsibility to familiarize itself with the original construction drawings for the Work areas. All significant deviations are to be brought to the attention of the Engineer.

E. DETAILS AND SYMBOLS

- 1. Details are shown on drawing series R-501 through R-502.
2. Where the Work Item or Detail bubble is noted "TYP," it means the Work Item or Detail occurs at all locations where the applicable designation symbol occurs on that drawing.
3. Where "TAR," is noted, it means there may be areas of this work in addition to the particular designated areas.
4. Where two or more Work Item Bubbles are grouped together, it means any or all of the referenced work items may be applicable. Coordination of Work Items or Details is Contractor's responsibility.
5. When a Work Item or Detail is listed as incidental, this work is included in the pay unit of other work items and does not have a separate price.
6. When a Detail is labeled (FOR REFERENCE ONLY) it provides information only about incidental work and does not have a pay unit.

F. SHORING AND BRACING

- 1. Contractor shall provide all shoring, bracing, sheeting, etc. required for safety and proper execution of the work.
2. Contractor is solely responsible to prepare shop drawing for bracing and shoring members designed and stamped/sealed by a registered structural engineer (registered in State of Illinois) and submit them to the Engineer for review / record.
3. The design of the shoring and bracing members shall include all changes in the structure caused by the shoring and bracing.

G. EXISTING SERVICES AND UTILITIES

- 1. Contractor shall review all existing conditions to determine all Electrical and Mechanical services and Utilities affected by the work. Make necessary temporary connections to maintain existing services to all areas affected by the work. The Contractor shall submit the methods and schedule of connections for the owner's approval prior to commencement.

H. CONSTRUCTION PHASING, SEQUENCING AND TRAFFIC MAINTENANCE

- 1. Work sequence shall be coordinated with the Owner's representative and all identified project representatives.
2. Owner will continue to use structure during restoration. Contractor must phase and arrange work to maintain access at all times to all areas that are not under construction for both vehicles and pedestrians.
3. The Contractor is responsible for collection and removal of all construction debris on a daily basis, and the site shall be left in a neat and orderly condition, satisfactory to the Owner.
4. The Contractor is responsible for protecting all adjacent structures, landscaping, and other surfaces and items which could be affected by the Work.

I. GENERAL CONCRETE REQUIREMENTS

- 1. CAST-IN-PLACE CONVENTIONAL CONCRETE (FULL DEPTH)
COMPRESSIVE STRENGTH 5000 PSI @ 28 DAYS
WATER-CEMENT RATIO 0.40 MAX.
MAX. SIZE AGGREGATE 1/2 IN. (Select larger agg. for section > 1/2 in)
6" W/ SUPERPLASTICIZER (after water reducer addition)
AIR CONTENT 7% ± 1-1/2%
CEMENT CONTENT 658 LB./C.Y. MIN.

J. CONCRETE PROTECTION FOR REINFORCEMENT:

- 1. The following applies for full section replacement where shown on drawings.
2. The minimum concrete protection for reinforcement shall be per ACI 318-08, Section 7.7.
3. For pre-stressed and non-pre-stressed reinforcement in pre-stressed/pre-cast concrete members, the minimum concrete protection at top of members shall be 1-1/2 in.
4. Minimum cover for reinforcing in non-pre-stressed concrete and non-post-tensioned members.

Minimum Concrete Cover (inches)

- a. Slab top reinforcement 1-1/2
b. Slab bottom reinforcement 3/4
c. Beam top reinforcement, U.N 3"
d. Beam stirrups at sides and bottom of beam 1-1/2
e. Beam stirrups at top of beam 2-1/2
f. Column ties 1-1/2
\* Or 3X bar diameter, whichever is greater.

K. CLEANING AND PAINTING STEEL (EPOXY COATING FOR REINFORCEMENT AND ANCHORS)

- 1. All steel exposed during the Work shall be power tooled (SSPC-SP3) to remove all corrosion and laitance.
2. Prime and paint all exposed steel after cleaning with two coats of zinc rich epoxy paint.
3. Epoxy coat all reinforcement exposed within repair areas, except welded wire reinforcement.

L. STRUCTURAL STEEL NOTES

Table with 4 columns: Structural Shapes, FY, psi, ASTM. Rows include W-shapes (50,000 A992), M-shapes, S-shapes, HP-shapes, channels, angles (36,000 A36), Hollow Structural Sections, Rectangular and square (46,000 A500 GR. B), Round (42,000 A500 GR. B), Steel Pipes (35,000 A53 GR. B), Structural Plates and Bars (36,000 A36), 1/2" dia. to 1" dia., UN (92,000 A325), 1-1/8" dia. to 1-1/2" dia., UN (81,000 A325), Anchor Rods (36,000 F1554 GR. 36), Welding, Electrodes (E70XX AWS D1.1-96), All welding to be performed with certified welders per AWS D1.1-96.

M. POST-INSTALLED ANCHORS

- 1. Expansion Anchors - Hilti Kwik Bolt III, Unless noted.
2. Adhesive Anchors - Hilti HY200, Unless noted.
3. Contractor shall locate existing embedded reinforcement using non-destructive testing prior to fabrication of attachments or drilling of holes. Notify Engineer of obstructions that will prevent installation of anchors at design locations.
4. Post-installed Anchors must be installed using the spacing and edge distances given on the plans or details. If field conditions dictate that the anchor spacing or edge distance be modified, the Contractor shall submit a field sketch to the Engineer for review prior to making any modifications.
5. Post-installed anchor holes shall be drilled per Manufacturer's written instructions.
6. Adhesive Anchors shall be installed by an ACI-CRSI Certified "Adhesive Anchor Installer"

N. WINDOWS

- 1. Windows shall be Kawneer Trifab VersaGlaze 451 Framing System, Center Set, Screw Spline Assembly, Outside Glazed with 6mm Solarban 60 (2) Clear Glass +.030 PVB + 6mm Clear Glass, by Vitro Architectural Glass.
2. All Work shall be in strict accordance with all Manufacturer's written instructions and recommendations.
3. Windows shall be coated with Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer coating - Color to be selected by Owner.

O. EXPANSION JOINTS

- 1. Expansion joints shall be Emseal Colorseal and Emseal Colorseal-DS Expansion Joints. Refer to plan, elevation and section drawings for application of each type.
2. Store, prepare and install expansion joint per Manufacturer's written instructions and recommendations.
3. Expansion joint splices, as required, shall be in accordance with Manufacturer's written instructions and recommendations.
4. Expansion joint adhesive and other incidental materials shall be in accordance with Manufacturer's written instructions and recommendations.
5. Evazote Expansion Joint color to be selected by Owner from Manufacturer's full color range.

P. BOLLARDS

- 1. Bollards to be provided and installed per the Drawings.

Q. TRAFFIC COATING SYSTEM

- 1. Traffic coating system shall be Sikalastic - 720 One Shot by Sika.
2. Storage, surface preparation, mixing and application shall be in accordance with Manufacturer's written instructions and recommendations.
3. Color to be as selected by Owner from Manufacturer's color options.

R. SEALANTS

- 1. Materials, storage, preparation, and installation shall be in accordance with Manufacturer's written instructions and recommendations.
2. All surfaces to receive sealants shall be cleaned of previous sealants and laitance which can inhibit bond.
3. Steel surfaces to receive sealant shall be roughened up and primed prior to application of sealant.
4. Primers: Install primers as recommended by the sealant manufacturer. (Primer required for Dow 795 sealant.)
5. Bond Breaker/Backer Rod: Install closed cell cylindrical or triangular backer rod or polyethylene tape to prevent three-sized adhesion of the sealant and to provide proper joint geometry for a 2:1 joint width-to-depth ratio.
6. Color to be as selected by Owner from Manufacturer's full color range.
7. Sealant Materials:
a. Window Perimeters: Dow 795, Dow Chemical Company
b. Joint between concrete wall/curb and steel beam base: Dow 795, Dow Chemical Company
c. Reveals at Expansion Joint: Per Expansion Joint Manufacturer

S. STEEL COATING

- 1. Coat all new steel with Tnemec Chembuild 135.
2. Prepare surfaces and apply coating according to Manufacturer's instructions.
3. Color to match existing canopy or as selected by Owner from Manufacturer's full color range.

T. PAINTS

- 1. Material Compatibility:
a. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
b. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
c. Products shall be of same manufacturer for each coat in a coating system
2. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in Manufacturer's written instructions.
3. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
a. SSPC-SP 3
4. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
5. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints. Materials Preparation and Storage: Mix, prepare and store coating materials according to Manufacturer's written instructions.
6. Protect adjacent surfaces and substrates not scheduled to receive paint, against damage from paint application.
7. Apply paints according to Manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
8. Minimum Coating Thickness: Apply coating materials no thinner than Manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.
9. Primers: Apply at a rate to ensure complete coverage.
10. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or re-coat work not complying with requirements.
11. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
12. Paint colors to be as selected by Owner from Manufacturer's full color range.

14. Painting Schedule:

a. Steel Substrates:

- Alkyd System MPI EXT 5.1D:
1) Prime Coat: Primer, alkyd, anticorrosive, for metal, MPI #79.
a) Benjamin Moore; Super Spec HP - Alkyd Metal Primer.
b) Sherwin-Williams; Protective & Marine - Kem Kromik Universal Primer.
2) Topcoat: Alkyd, exterior, gloss (MPI Gloss Level 6), MPI #9
a) Benjamin Moore; Corotech - Alkyd Gloss Enamel.
b) Sherwin-Williams; Protective & Marine - Seaguard 1000 Marine.

b. Galvanized-Metal Substrates:

- Latex System MPI EXT 5.3H:
1) Prime Coat: Primer, galvanized, water based, MPI #134.
a) Behr Paint; Premium Plus - Exterior Multi-Surface Primer & Sealer.
b) Sherwin-Williams; Pro Industrial - DTM Acrylic Primer/Finish
2) Intermediate Coat: Latex, exterior, matching topcoat.
3) Topcoat: Latex, exterior, gloss (MPI Gloss Level 6), MPI #119.
a) Behr Paint; Behr Plus - Int/Ext Hi-Gloss Enamel.
b) Sherwin-Williams; Pro Industrial - DTM Acrylic Gloss

U. TESTING AND INSPECTION NOTES
1. The following tests and inspections shall be performed by an independent testing and inspection agency employed by Owner and approved by Engineer and Building Official. Test and inspection reports shall be submitted for approval to Engineer and Building Official. Conform to requirements of IBC section 109 and 1704.
Table: Required Verification and Inspection (Continuous, Periodic)
A. Concrete Construction
1. Verifying use of required design mix. X

MAY 28, 2021

V. ABBREVIATIONS

- 1. APPROX = Approximately
2. AGG = Aggregate
3. BM = Beam
4. BOT = Bottom
5. CIP = Cast in Place
6. CJ = Construction Joint/Control Joint
7. CLR = Clearance
8. COL = Column
9. CONC = Concrete
10. DET = Detail
11. EA = Each
12. E.E. = Each End
13. E.S. = Each Side
14. Embed = Embedment length
15. EJ = Expansion Joint
16. EXIST = Existing
17. FIN = Finished
18. FL = Floor
19. IN = Inches
20. INC = Incidental
21. LF = Linear Foot
22. LS = Lump Sum
23. MAX = Maximum
24. MIN = Minimum
25. N/A = Not Applicable
26. OC = On Center
27. OH = Opposite Hand
28. P/C = Precast
29. REINF = Reinforcement
30. REQ'D = Required
31. SF = Square Foot
32. SIM = Similar
33. SOG = Slab on Ground
34. SPEC = Specification
35. SUPT = Supported
36. T = Top
37. TAR = Typical as Required
38. TYP = Typical
39. UN or UNO = Unless Noted Otherwise
40. WI = Work Item
41. WWR = Welded Wire Reinforcement



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OPRF PARKING STRUCTURE STAIR/ELEVATOR ENCLOSURE OAK PARK, ILLINOIS

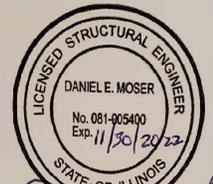
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SHEET TITLE: GENERAL NOTES

R-001





*Daniel E. Moser*  
05/10/2021



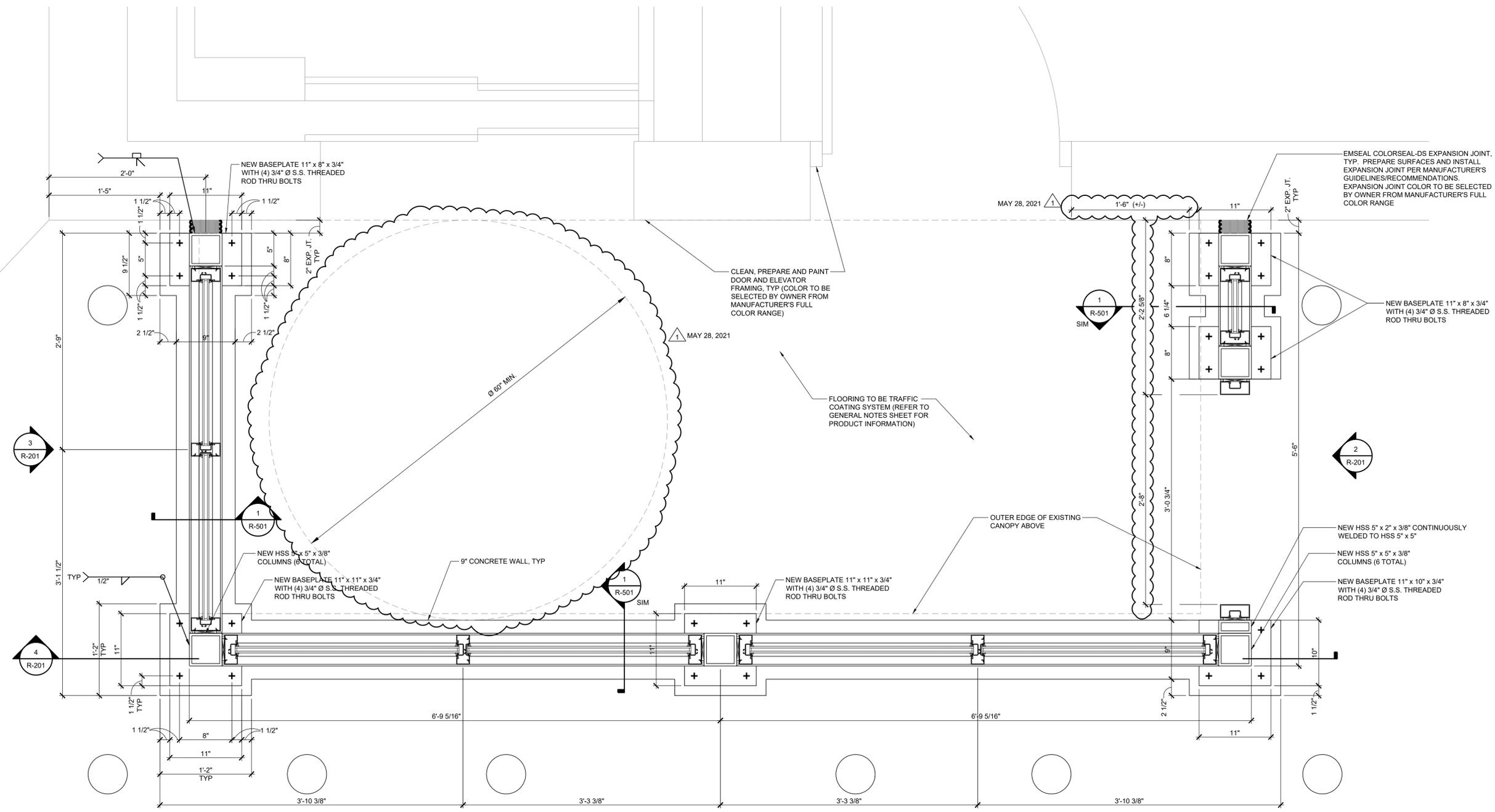
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STAIR/ELEVATOR  
ENCLOSURE**  
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DRAWN BY:	JAP	
CHECKED BY:	EJG	

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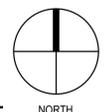
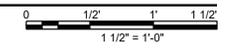
SHEET TITLE:  
**STAIR/ELEVATOR  
ENCLOSURE ENLARGED  
PLAN**

**R-102**



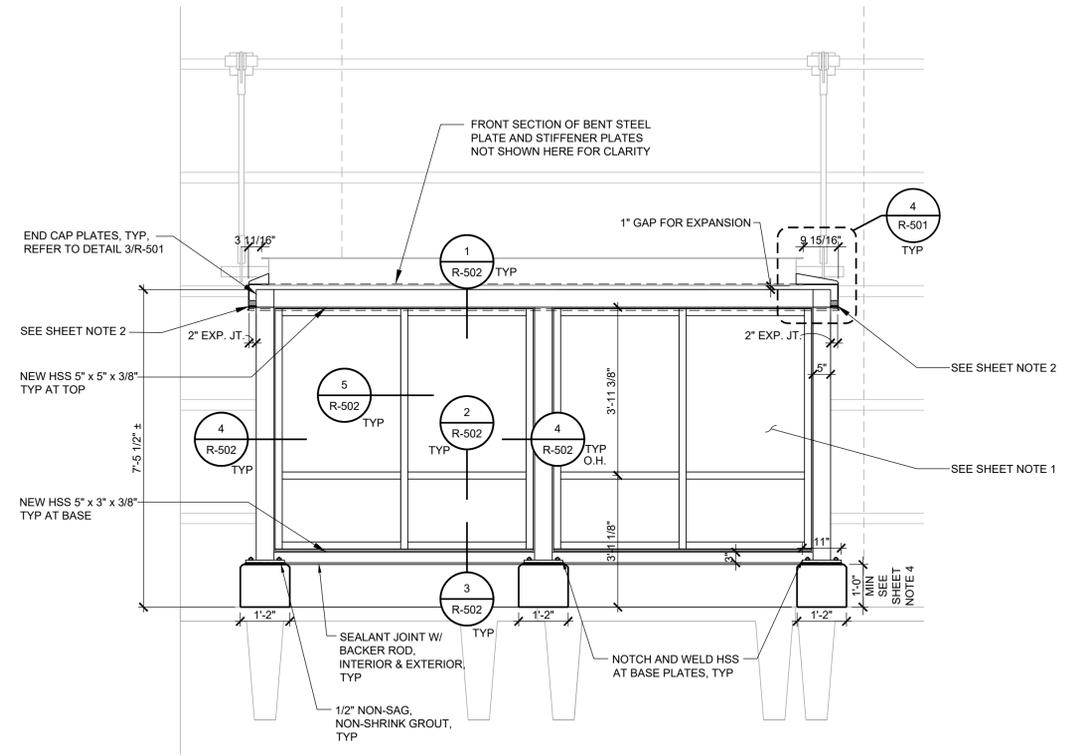
- NOTES:
- 1'-0" MIN AT EXISTING DECK HIGH POINT (ALL BASE PLATES TO BE AT SAME TRUE ELEVATION)
  - FIELD VERIFY ALL DIMENSIONS

**STAIR/ELEVATOR ENCLOSURE  
ENLARGED PLAN**

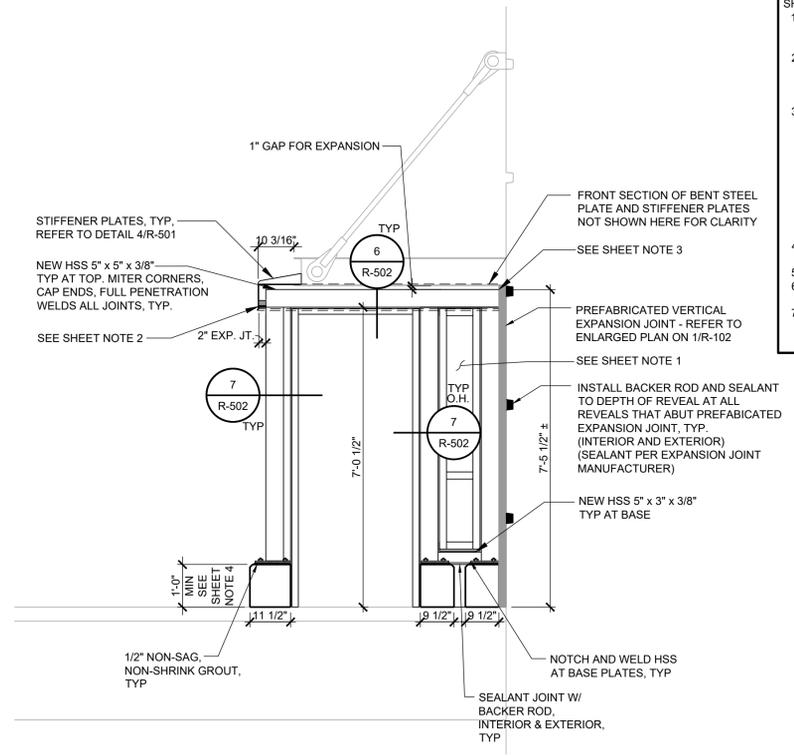


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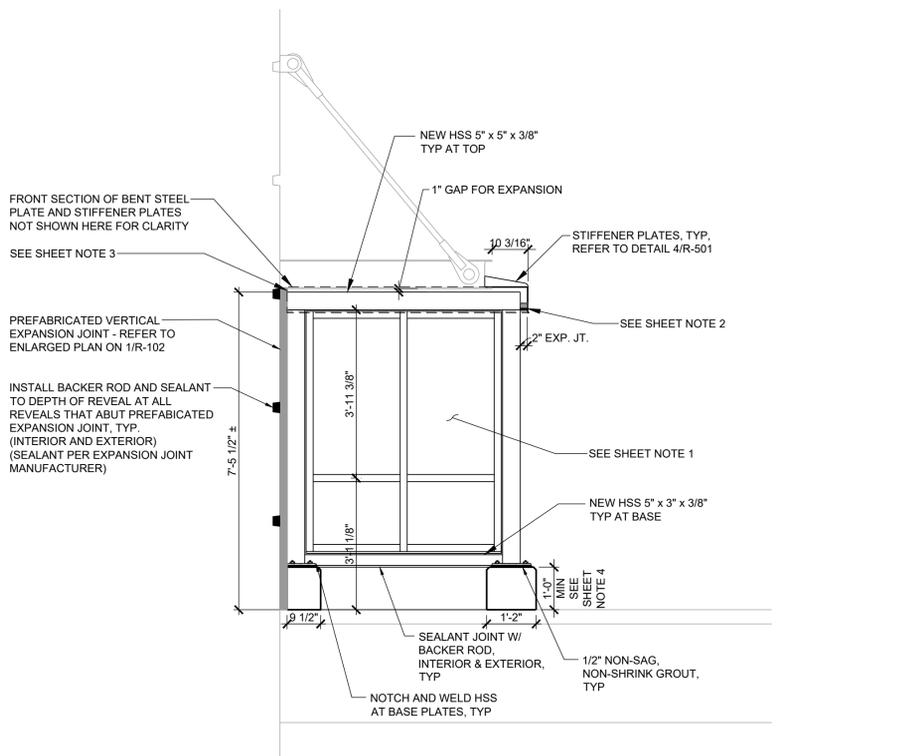
- SHEET NOTES:**
1. WINDOWS TO BE KAWNEER TRIFAB VERSAGLAZE 451 FRAMING SYSTEM, CENTER SET, SCREW SPLINE ASSEMBLY, OUTSIDE GLAZED. REFER TO GENERAL NOTES FOR GLASS TYPE.
  2. EMSEAL COLORSEAL EXPANSION JOINT, TYP. PREPARE SURFACE AND INSTALL EXPANSION JOINT PER MANUFACTURER'S GUIDELINES/RECOMMENDATIONS. EXPANSION JOINT COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S FULL COLOR RANGE.
  3. BENT STEEL PLATE TO TERMINATE 2" FROM STAIR TOWER WALL. EMSEAL COLORSEAL EXPANSION JOINT TO BE INSTALLED AT UNDERSIDE OF BENT PLATE (VERTICALLY AND HORIZONTALLY) AT BENT PLATE TERMINATIONS NEAR THE WALL. TO COMPLETELY SEAL THE EDGES. EXPANSION JOINT TO BE INSTALLED PER MANUFACTURER'S GUIDELINES/RECOMMENDATIONS. SPLICE EXPANSION JOINTS PER MANUFACTURER'S GUIDELINES/RECOMMENDATIONS. EMSEAL COLORSEAL EXPANSION JOINT AT BENT PLATE TERMINATIONS NEAR THE WALL ARE TO BE FULLY SEALED TO THE VERTICAL FULL-HEIGHT EMSEAL COLORSEAL-DS EXPANSION JOINT PER MANUFACTURER'S RECOMMENDATIONS, TYP.
  4. 1'-0" MIN WALL HEIGHT AT EXISTING DECK HIGH POINT (ALL BASE PLATES TO BE AT SAME TRUE ELEVATION)
  5. FIELD VERIFY ALL DIMENSIONS
  6. BOLLARDS NOT SHOWN FOR CLARITY. REFER TO PLAN DRAWING FOR BOLLARD LOCATIONS.
  7. COAT ALL NEW STEEL WITH TNEEC CHEMBUILD 135. COLOR TO MATCH EXISTING CANOPY OR AS SELECTED BY OWNER FROM MANUFACTURER'S FULL COLOR RANGE.



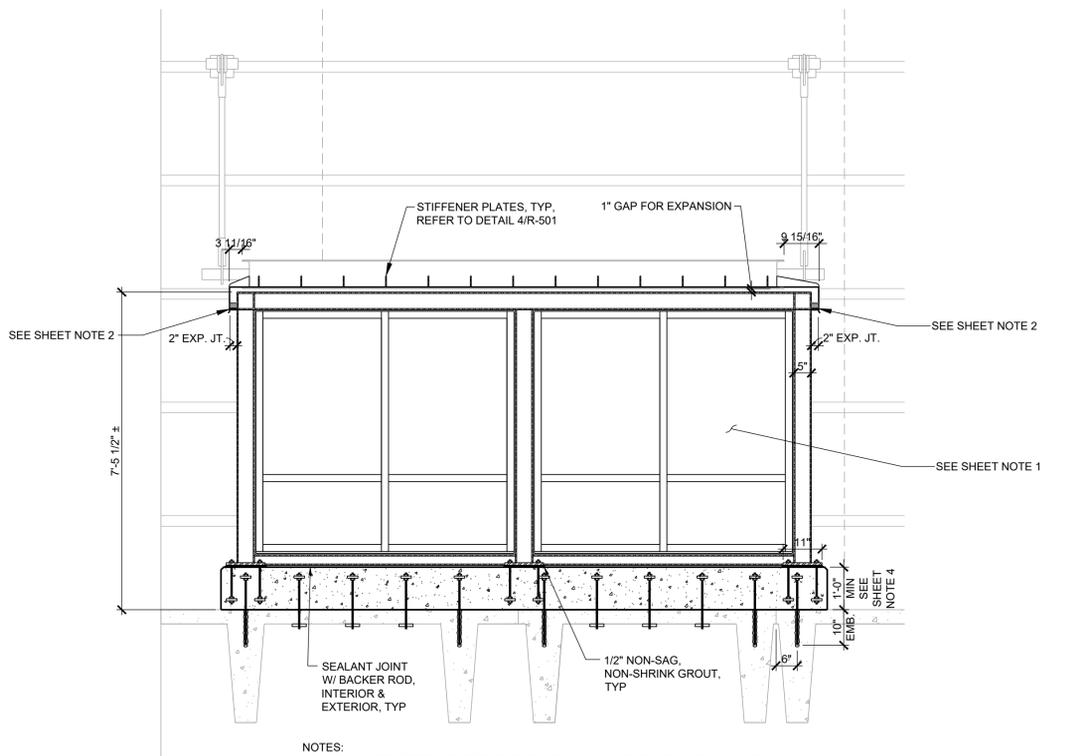
**1 ENCLOSURE ELEVATION**  
0 1' 2' 4'  
1/2" = 1'-0"



**2 ENCLOSURE ELEVATION**  
0 1' 2' 4'  
1/2" = 1'-0"

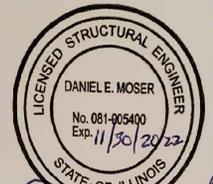


**3 ENCLOSURE ELEVATION**  
0 1' 2' 4'  
1/2" = 1'-0"



**4 ENCLOSURE SECTION**  
0 1' 2' 4'  
1/2" = 1'-0"

**NOTES:**  
1. CONCRETE STEEL REINFORCEMENT NOT SHOWN IN THIS DETAIL FOR CLARITY. REFER TO DETAIL 1/R-501 FOR CONCRETE STEEL REINFORCEMENT DETAILING.



*Daniel E. Moser*  
05/10/2021



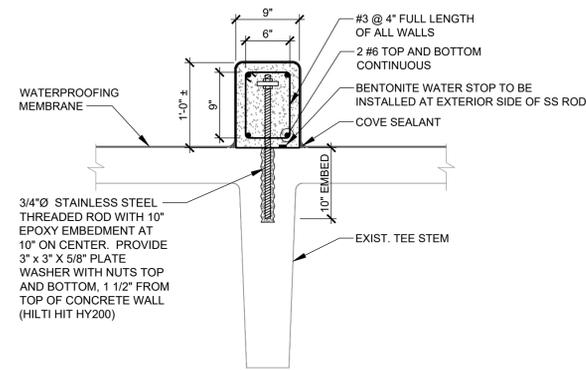
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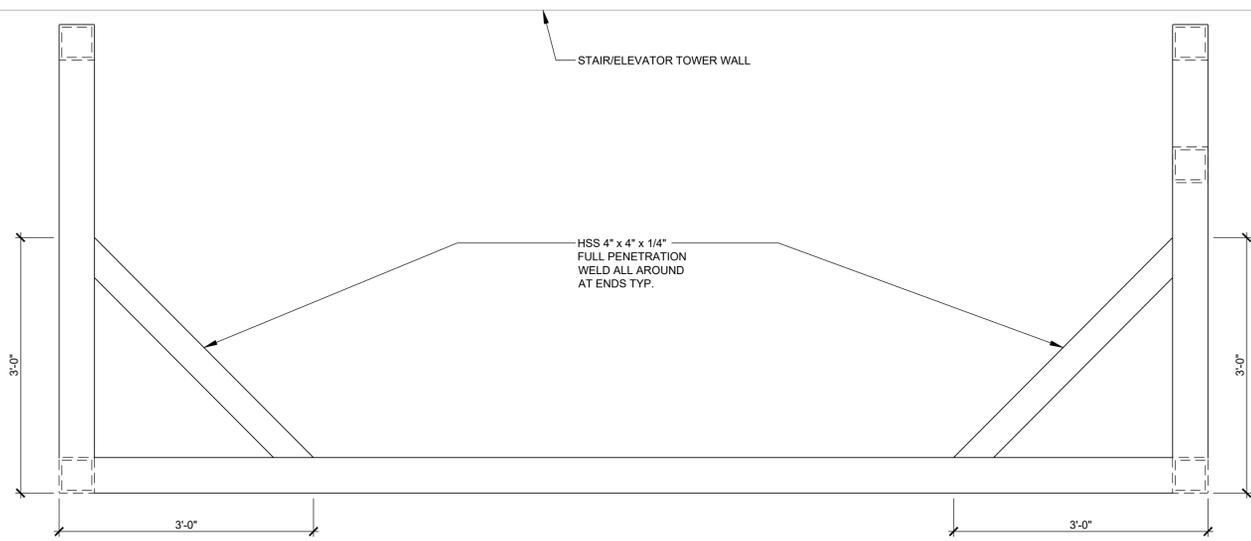
**R-201**



**NOTES:**

1. PROVIDE 2 #4 CORNER BARS TOP AND BOTTOM.
2. PROVIDE 2 #4 U-BARS TOP AND BOTTOM AT ENDS OF WALLS.
3. WHERE TEE STEM DOES NOT EXIST, 3/4" STAINLESS STEEL THREADED RODS SHALL BE INSTALLED THROUGH 4" FLANGE AND TERMINATE WITH A 4" x 4" x 3/4" PLATE WASHER BELOW THE SLAB. PLATE WASHER TO BE HOT-DIPPED GALVANIZED.
4. WINDOW DETAILS NOT SHOWN IN THIS DETAIL FOR CLARITY. REFER TO SHEET R-502 FOR WINDOW DETAILS.

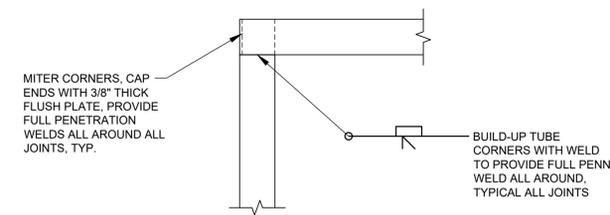
1 CONCRETE WALL SECTION



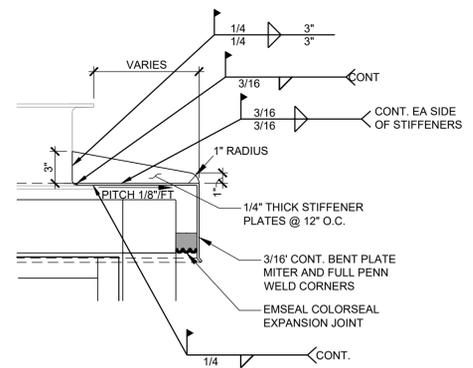
**NOTES:**

1. TOP OF STEEL COLUMNS, AND ALL HORIZONTAL TUBES SHALL BE 1" FROM UNDERSIDE OF EXISTING CANOPY.
2. OTHER ELEMENTS NOT SHOWN IN THIS DETAIL FOR CLARITY. REFER TO SHEET R-102 FOR ADDITIONAL INFORMATION.

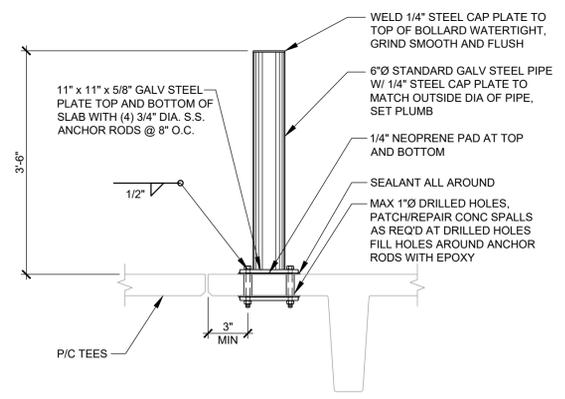
2 PLAN AT TOP OF STEEL COLUMNS



3 TYPICAL WELD DETAIL

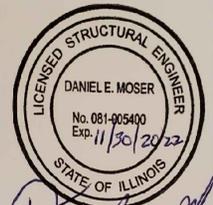


4 TYPICAL STIFFENER PLATE DETAIL



**NOTE:**  
PAINT ENTIRE PIPE GUARD ASSEMBLY TRAFFIC YELLOW.

5 PIPE BOLLARD DETAIL



*Daniel E. Moser*  
05/10/2021



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SHEET TITLE:  
**STRUCTURAL DETAILS**

