Paycor Stadium Southeast & Southwest VT Escalator Towers
Bid Package 2: Steel, Demo & Concrete
ITB#033-26
Addendum 1

April 29th, 2026

To All Registered Vendors:

NOTE:
Engineer Estimate breakdowns for associated Trade Contracts as follows:

TC-02 Demolition	$2,149,230 + $350,000 (Allowance)	**TC-02 Total = $2,499,230**
TC-03 Structural Steel	$5,595,058 + $350,000 (Allowance)	**TC-03 Total = $5,945,058**
TC-04 Concrete Structure	$1,365,539 + $150,000 (Allowance)	**TC-04 Total = $1,515,539**
		Bid Package #2 Total = $9,959,827

Project Manual Revisions:

00 10 00.4	Bid Form – *Added Allowances per 01 21 00*
01 10 00	Summary of Work – *Replaced in its entirety.*
01 21 00	Allowances – *Added spec section*
01 32 16	Construction Progress Schedule – *Revised construction schedule*
02 41 19	Selective Demolition
03 41 00	Precast Structural Concrete
23 00 00	Mechanical Specifications

Revised Drawings:
See Attached for summary of drawing changes

Include the following attachments:

1. Southeast & Southwest VT Towers 3D Models
2. Site Logistics & Rigging Plan
3. Demo & Temp Wall Bracing Exhibit
4. Tower Crane (GMK5250XL-1) Product Guide
5. Pre-Bid Meeting Agenda
6. Pre-Bid Meeting Sign-in Sheet
7. XBE Policies and Procedures Pre-Bid Meeting Overview
8. Pre-Bid Conference OCIP Summary

Sincerely,

Jill Williams

Jill Williams
Purchasing Director

Hamilton County
Department of Stadia & Parking
3 Paul Brown Stadium
Cincinnati, Ohio 45202
Phone: (513) 455-4950

Hamilton County Purchasing Department
138 East Court Street, Room 507
Cincinnati, Ohio 45202
Phone (513) 946-4355
Email: purchasing@hamiltoncountyohio.gov

ADDENDUM NO. - 01

Date: 4/29/2026

Hamilton County – Paycor Stadium
1 Paycor Stadium Cincinnati, OH 45202
Paycor Southeast/Southwest Escalators – Structural and Demolition Bid Documents

ITB 033-26

Addendum to the Construction Documents

To all Bidders of record:

Acknowledge receipt of this Addendum by inserting its number and date in bid form. Failure to do so may subject the Bidder to disqualification. This Addendum forms a part of the Contract Documents and modifies them as follows:

1. **Bidding Documents**

2. **Drawings**

2.1. A-102.4 Sector 4 – Level 200 & 300 Plans:

2.1.1. Floor drains added to Level 300.

2.2. A-103.4 Sector 4 – Level 400 & 500 Plans:

2.2.1. Floor drains added to Level 400 and 500.

2.3. A-104.4 Sector 4 – Level 600 & 650 Plans:

2.3.1. Floor drains added to Level 600 and 650.

2.4. A-105.4 Sector 4 – Level 700 & Roof Plans:

2.4.1. Floor drains added to Level 700

2.5. A-106.9 Sector 9 – Level 200 & 300 Plans:

2.5.1. Floor drains added to Level 300.

2.6. A-107.9 Sector 9 – Level 400, 450, & 500 Plans:

2.6.1. Floor drains added to Level 400, 450, and 500.

2.7. A-108.9 Sector 9 – Level 600 & 650 Plans:

2.7.1. Floor drains added to Level 600 and 650.

2.8. A-110.9 Sector 9 – Level 700 & Roof Plans:

2.8.1. Floor drains added to Level 700

2.9. A-705.4 Sector 4 – Typical Stair Sections & Details:

2.9.1. New sheet added.

2.10. S-001

2.10.1. Refer to sheet for clouded revisions

2.10.2. Clarified epoxy coated mesh required.

2.10.3. Updated fireproofing note.

2.11. S-102

2.11.1. Refer to sheet for clouded revisions

2.11.2. Framing revisions

2.11.3. Added section cuts

2.12. S-103

2.12.1. Refer to sheet for clouded revisions

2.12.2. Framing revisions

2.12.3. Added section cuts

2.13. S-104

2.13.1. Refer to sheet for clouded revisions

2.13.2. Framing revisions

2.13.3. Added section cuts

2.14. S-105

2.14.1. Refer to sheet for clouded revisions

2.14.2. Framing revisions

2.14.3. Added section cuts

2.15. S-106

2.15.1. Refer to sheet for clouded revisions

2.15.2. Framing revisions

2.15.3. Added section cuts

2.16. S-107

2.16.1. Refer to sheet for clouded revisions

2.16.2. Framing revisions

2.16.3. Added section cuts

2.17. S-108

2.17.1. Refer to sheet for clouded revisions

2.17.2. Framing revisions

2.17.3. Added section cuts

2.18. S-109

2.18.1. Refer to sheet for clouded revisions

2.18.2. Framing revisions

2.18.3. Added section cuts

2.19. S-201

2.19.1. Refer to sheet for clouded revisions

2.19.2. Updated details for clarification

2.20. S-203

2.20.1. Refer to sheet for clouded revisions

2.20.2. Updated details for clarification

2.21. S-204

2.21.1. Refer to sheet for clouded revisions

2.21.2. Updated details for clarification

2.21.3. Added section 56 thru 71

2.22. S-205

2.22.1. New Sheet - Refer to sheet for clouded revisions

2.22.2. Added section 72 thru 78

2.22.3. Added section cuts

2.23. S-301

2.23.1. Refer to sheet for clouded revisions

2.23.2. Added steel for mesh panel support

2.23.3. Added section cuts

2.23.4. Clarified wall support steel locations

2.24. P100

2.24.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.25. P101

2.25.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.25.2. Noted existing floor drain covers should be retained.

2.26. P102

2.26.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.26.2. Noted existing floor drain covers should be retained.

2.27. P103

2.27.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.27.2. Noted existing floor drain covers should be retained.

2.28. P104

2.28.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.28.2. Noted existing floor drain covers should be retained.

2.29. P105

2.29.1. Noted existing floor drain covers should be retained.

2.30. P600

2.30.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.31. P601

2.31.1. Adjusted vertical riser demolition scope for risers outside of ramp footprint.

2.32. P602

2.32.1. Drawing removed from set due to revised demolition scope.

2.33. FP101

2.33.1. Added demolition scope for areas below demolished stairwell on Level 400.

2.34. H001

2.34.1. New mechanical legend sheet

2.35. H101

2.35.1. New mechanical Level 300 demolition sheet.

2.36. E100

2.36.1. Added security camera to plan.

2.37. E101

2.37.1. Added demolition scope for 300 Level ceiling below demolished stairwell.

2.38. E102

2.38.1. Added demolition scope associated with stairwell demolition.

3. Specifications

3.1. 00 01 10 – Index to Project Manual

3.1.1. Updated index

3.2. 00 01 15 – Drawing Index

3.2.1. Updated index per addendum

3.3. 02 41 19 – Selective Demolition

3.3.1. Updated

3.4. 03 41 00 = Precast Structural Concrete

3.4.1. Added this Specification

3.5. 23 00 00 Mechanical Specifications

3.5.1. Specification section added given new mechanical demolition scope.

4. Clarifications

---------- **End of Addenda** ----------

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INDEX TO PROJECT MANUAL

NOTICE:
This Project Manual, an unpublished instrument of service of the authors, is for use on this Project only and is prepared for use in conjunction with the authors' interpretations, observations, decisions, and administration as described in the General Conditions, without which desired results are unlikely. Use in part or in whole for other purposes without the authors' expressed written consent may violate Act 17, United States Code, paragraph 301, 1991. Copyright 2013, KZF Design.

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END OF SECTION 00 01 15

BID FORM

ACKNOWLEDGMENT OF BIDDER:

Submitted by: _____
(enter company name here)

TO: The Board of County Commissioners, Hamilton County, Ohio
Hamilton County Purchasing Department
138 East Court Street, Room 507
Cincinnati, Ohio 45202

We, the undersigned, having visited the site, carefully studied the local conditions affecting the cost of the work, and having thoroughly examined the Bidding Documents, consisting of the Instructions to Bidders, this Proposal Form, Bonding Requirements, Minority, Women, and Small Business Enterprise Program, Contract Form, General Conditions, Technical Specifications, Drawings, and Addenda for the Project titled:

Paycor Stadium Southeast/Southwest Escalator Towers
Structural and Demolition Package
ITB#033-26
TC-02 Demolition, TC-03 Structural Steel, Handrails,
Head House Structure, and Precast Stairs and
TC-04 Concrete Decks

prepared by KZF., 700 Broadway, Cincinnati, Ohio 45202, for the Board of County Commissioners, Hamilton County, Ohio, do hereby propose to perform all work required to be performed, and to provide and furnish equipment, transportation services, and temporary installations necessary to perform and complete, in a workmanlike manner, such items of work hereinafter designated by and for the sum of money set forth for said items.

ACKNOWLEDGMENT OF ADDENDA:

The undersigned acknowledges receipt of the following Addenda to the Contract documents (indicate Addendum Number and Issue Date):

Addendum No._____ Date:_____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

A. BIDDER AGREEMENTS:

The undersigned Bidder Agrees:

1. To accept the provisions of these Instruction to Bidders, Supplementary Instructions to Bidders, General Conditions, and Division 1 of the Specifications.
2. To provide and include a Bid Guaranty and Contract Bond as dictated in the Legal Advertisement.
3. To accept the provisions and provide all required documents contained within the Minority, Women, and Small Business Enterprise Program.
4. That the amounts stated in this Proposal Form represents the entire cost of the work. The completion time stated represents the entire time for performance of the work. The amount bid includes allowances for all fees for permits, taxes and insurance required or applicable to the work. That no claims will be made for any increases in wage scales or material costs.
5. To certify that this bid is genuine not sham or collusive or made in the interest or in behalf of any person not herein named, and that the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid, or any other person, firm or corporation to refrain from bidding and that the undersigned bidder has not in any manner sought by collusion to secure for himself and advantage over any other bidder.
6. And certifies that (we) (he) (they) (has) (have not) previously performed work subject to the President's Executive Order No. 11246.
7. That this bidder will comply with all City, State, and Federal Statutes relating to Liability Insurance, Working Hours, Minimum Wages, Safety and Sanitary Regulations, which in any way may affect those engaged or employed on the work in the event that the award of the Contract is made on the Proposal herein submitted.
8. That the bidder will comply with any new laws or acts regulating public buying procedures.
9. Refer to additional instructions for bidder registration process (See Registration Form within the Legal Advertisement Packet).

BID FORM STIPULATIONS:

1. The wording of this proposal shall be used throughout, without damage, alteration or addition. Any change in wording may cause it to be rejected.
2. Include all required forms.
3. Bid amounts shall be provided in both words and figures. The worded amount shall govern in the case of discrepancies or in cases of error in extending the total amount of the bid, the unit price may govern.
4. In the event that qualified bidders submit equal bids (to the penny) and are deemed the lowest and best bidders for that trade’s bid, those bidders agree to let the County award the contract to the bidder selected by the current "tied bid" procedures used by the Hamilton County Purchasing Department.
5. A Base Bid must be submitted prior to bidding Alternates Bid unless noted otherwise in the Bid Form.

6. The Board of County Commissioners reserves the right to reject any or all bids and, unless otherwise specified by the bidder, to accept any item in the bid.

C. ALLOWANCES:

The County may after the bids are opened add an allowance to the contract at its own discretion. This allowance shall be added to the contract and so denoted in the contract in section 4.3. Any allowances added by the County shall be for incidentals associated with this project. If unused, during the project all allowance monies shall be returned to the County at the end of the project or at the County's request.

A. General:

1. Work related to cash allowances will be performed on a time and material basis. The Contractor shall furnish and certify daily detail records of all labor and materials provided.

2. If the cost to complete the work is less than the cash allowance, a deduct Change Order will be prepared by the County for the cost difference.

B. Cash Allowance Items:
   1. Trade Contract TC-02 Demolition No.1: $350,000
   2. Trade Contract TC-03 Structural Steel, Handrails, Head House Structure, and Precast Stairs No.2: $350,000
   3. Trade Contract TC-04 Concrete Decks No.3: $150,000

D. AWARDING:

The selection process includes but is not limited to:

1. The rules and laws set forth in the Ohio Revised Code for Public Bids.
2. The bidder submitting the Lowest and Best Bid per Ohio Revised Code.
3. The lowest accepted Base Bid and "Accepted" Alternate combination.
4. The bidder best meeting all required specifications.
5. Review of the required forms submitted by the Bidder at the time of the Bid Opening in compliance with the Minority, Women, and Small Business Program.
6. Substitutions not approved prior to the bid opening cannot be used in the determination of the Lowest and Best Bid Determination.
7. Substitutions will not be used in determining Lowest and Best Bids.
8. If Hamilton County and the bidder are unable to successfully come to terms regarding the bid and subsequent contract, Hamilton County reserves the right to terminate contract discussions with the bidder(s) and select the next apparent low bidder.

Hamilton County reserves the right to:

1. Reject any or all bids.
2. Waive any informality in the bids.
3. Eliminate conditions or terms that are not in the best interest of Hamilton County and its residents.

E. ADDITIONAL BID REQUIREMENTS:

Bidder shall review the Legal Advertisement for project timeline, pre-bid meeting information, bidding registrations, and addendum notifications.

Bidder shall review the Summary of Work for work hours, length of project, permitting requirements, contractor and sub assignments, and prime contract arrangements (single vs multiple contracts).

Bidder shall assume that No Asbestos removal or remediation is required on this project. Any contractor suspecting asbestos shall stop work immediately and report suspicious areas to the Owner. The owner shall be responsible for removing any asbestos discovered or targeted for removal in this project.

F. BID PROPOSALS:

Bidder's Name: _____

Each bidder is required to fill out all entries in the proposal section. Enter "NO BID" where no bid will be entered for this proposal.

BASE BID TC-02 Demolition

(Includes $350,000 Cash Allowance)

TOTAL COST (LUMP SUM): _____ *(in numbers)*

_____ *(in words)*

the worded amount shall govern

For reference only provide a breakdown of the total prices listed in the Base Bid. This breakdown is solely a reference tool to be used by the County and shall not enter into the determination of the winning bidder for this project. The summation of the lines below should equal your total price listed above.

General Contractor Material: $_____ *(in numbers)*

General Contractor Labor: $_____ *(in numbers)*

Mechanical Material: $_____ *(in numbers)*

Mechanical Labor: $_____ *(in numbers)*

Electrical Material: $_____ *(in numbers)*

Electrical Labor: $_____ *(in numbers)*

Project Management: $_____ *(in numbers)*

The summation of these lines should equal the Total Cost above.

BASE BID TC-03 Structural Steel, Handrails, Head House Structure and Precast Stairs

(Includes $350,000 Cash Allowance)

TOTAL COST (LUMP SUM): _____ *(in numbers)*

_____ *(in words)*

the worded amount shall govern

For reference only provide a breakdown of the total prices listed in the Base Bid. This breakdown is solely a reference tool to be used by the County and shall not enter into the determination of the winning bidder for this project. The summation of the lines below should equal your total price listed above.

General Contractor Material: $_____ *(in numbers)*

General Contractor Labor: $_____ *(in numbers)*

Mechanical Material: $_____ *(in numbers)*

Mechanical Labor: $_____ *(in numbers)*

Electrical Material: $_____ *(in numbers)*

Electrical Labor: $_____ *(in numbers)*

Project Management: $_____ *(in numbers)*

The summation of these lines should equal the Total Cost above.

BASE BID TC-04 Concrete Decks

(Includes $150,000 Cash Allowance)

TOTAL COST (LUMP SUM): _____ *(in numbers)*

_____ *(in words)*

the worded amount shall govern

For reference only provide a breakdown of the total prices listed in the Base Bid. This breakdown is solely a reference tool to be used by the County and shall not enter into the determination of the winning bidder for this project. The summation of the lines below should equal your total price listed above.

General Contractor Material: $_____ *(in numbers)*

General Contractor Labor: $_____ *(in numbers)*

Mechanical Material: $_____ *(in numbers)*

Mechanical Labor: $_____ *(in numbers)*

Electrical Material: $_____ *(in numbers)*

Electrical Labor: $_____ *(in numbers)*

Project Management: $_____ *(in numbers)*

The summation of these lines should equal the Total Cost above.

G. ALTERNATES:

Alternates, if accepted.

ALTERNATE -

DESCRIPTION_OF_ALTERNATE

TOTAL COST $: _____ (LUMP SUM ADD/DEDUCT) *(in numbers)*

(circle one)

_____ *(in words)*

the worded amount shall govern

H. SUBSTITUTIONS – No substitutions

Bidder's Name: _____

All Prime Contractors hereby acknowledge and accept all responsibilities assigned to them by the General Conditions, Minority, Women, and Small Business Program, and Division One of the Specifications. All fees for supervision and coordination are included in the bids.

Bids submitted by virtue of this Proposal hereby are acknowledged by the Owner to be made under the conditions that the Bidder will not be prevented, on account of strikes or other disruptions affecting source of supply, from obtaining materials necessary to carry out his contract to complete the construction covered thereby.

It is understood and agreed by the undersigned that the Owner reserves the right to reject any and all bids.

It is agreed that this Proposal shall be irrevocable for a period of Sixty (60) days after receipt of same by the Owner at the Day and Place set forth in the "Legal Advertisement".

[ ] We have read and agree to the terms listed above.
(check here)

Firm Name: _____

( ) Corporation ( ) Partnership ( ) Sole Proprietorship *(check one)*

Authorized Offerror *(print name):* _____

Authorized Signature *(sign name):* _____

Title: _____

Official Address: _____

_____

_____

E-mail Address: _____

Telephone Number:

SECTION 011100
SUMMARY OF WORK

PART 1 GENERAL

1.1 GENERAL PROVISIONS OF BID PACKAGE #2 TRADE CONTRACTS

The following summary is a description of work for all Contract Descriptions for **Paycor Stadium South Vertical Transportation Towers**. Work related to the Project is as indicated on the Drawings and Specifications as prepared by KZF. This section describes and assigns work to each Trade Contract as designated by the Construction Manager. Each Trade Contractor shall cooperate and coordinate with all other Trade Contractors for proper and expedient completion of the work in this Project. Each Trade Contract Description identifies the major portions of Scope of Work to be performed by the Bidder in specific Contract Descriptions. This summary should in no way be construed as being all-inclusive. It is issued as a guide to aid in the assignment of work. Refer to the Drawings and Specifications for a detailed accounting of any work not explicitly specified or noted. Each Trade Contract Description lists specification sections included, in whole or in part, in that Trade Contract Description. All work activities not explicitly specified / noted but are required to complete the work included in a Trade Contract Description, are a part of the work scope.

PART 2 TRADE CONTRACT DESCRIPTIONS

2.1 SECTION INCLUDES:

A. List of Trade Contracts

B. General Provisions of Bid Package #2 Trade Contracts

C. Contract Descriptions

2.2 LIST OF TRADE CONTRACTS

A. List of Bid Package #2 Trade Contracts:

TC-02	Demolition
TC-03	Structural Steel
TC-04	Concrete Structure

2.B GENERAL PROVISIONS OF BID PACKAGE #2 TRADE CONTRACTS

1. Each Trade Contractor shall be responsible for the proper protection of adjacent structures and public rights of way.

2. All work is to comply with the rules and regulations of governing authorities having jurisdiction. Work shall be performed by skilled tradesmen having experience in performing the work.

3. Storage of all materials is limited and must be approved by the Construction Manager. Offsite storage of material may be required. All costs associated with material delivery in small quantities, relocation of materials that impede work progress, and off-site material storage must be included in the bid.

4. A 48-HOUR NOTICE MUST BE GIVEN FOR DELIVERIES. IF NOTICE WAS NOT GIVEN DELIVERIES MAY BE TURNED AWAY. ALL COST ASSOCIATED WITH THIS ACTION WILL BE THE RESPONSIBILITY OF THE TRADE CONTRACTOR. ALL DELIVERIES MUST BE COORDINATED & APPROVED BY THE CONSTRUCTION MANAGER. NO PARKING BY EMPLOYEES OR DELIVERY VEHICLES IS PERMITTED ON SITE. STORAGE, TOOL OR OFFICE TRAILERS WILL NOT BE PERMITTED ON SITE WITHOUT THE PRIOR APPROVAL OF, AND IN COORDINATION WITH, THE CONSTRUCTION MANAGER.

5. Each Trade Contractor is responsible to review the site and be familiar with all existing conditions within and around the building including local conditions and requirements. The impact of the site conditions on the cost of performing the work shall be included in the bid. Trade Contractors shall notify the Construction Manager in writing of any discrepancies or conditions detrimental to proper performance of the Work.

6. Each Trade Contractor to provide to all other trades information and materials, shop drawings, diagrams, templates, and embedment’s necessary for the coordination of the Work. It is each Trade Contractor's responsibility to field verify and coordinate all interface with other Trade Contractors.

7. Where new work connects with existing, do all necessary cutting and patching required to make a satisfactory connection with the work to be performed under the Contract Documents so as to leave the entire work in a finished and workmanlike condition. This requirement shall include all required work where new items connect, fit, or otherwise interface with existing surfaces. Provide all labor and materials to this end, whether or not shown or specified. Verify and match existing conditions. This shall include full block replacement to nearest construction expansion joint of any concrete pavement removed or damaged.

8. Each Trade Contractor shall at all times maintain a clean and safe passage to all areas of the site, and for the public around the site.

9. Each Trade Contractor shall field verify all dimensions, materials and conditions of the existing site.

10. Initial benchmarks and control lines will be provided by the Construction Manager. Each Trade Contractor is responsible for all detailed layout and grade from the indicated benchmark and control points.

11. Each Trade Contractor is to coordinate all work with the work of other trades for proper function and sequence to avoid construction delays or additional cost.

12. Each Trade Contractor is responsible for daily cleanup and disposal of all debris associated with its work activities. This shall include removal of debris from public property and/or roadways caused by work on site or carried outside of the site by vehicles employed by the Trade Contractor. Street cleaning of this debris is expected by each Trade Contractor, as necessary. Debris not removed by the Trade Contractors will be discarded at the delinquent Trade Contractor's expense. All areas of work are to be broom cleaned at the end of each workday. In addition to daily cleanup each Trade Contractor to provide 1 person for every 4 Trade Contractor employees and their subcontractors to a once-a-week job site general cleanup activity. Each Trade Contractor to provide its worker with all the necessary tools and equipment to do cleanup. There will be no tools or equipment provided by the Construction Manager. Coordination of the weekly cleanup will be the responsibility of the General Trades Contractor. Designated eating areas will be identified by the Construction Manager. These areas will be the only place for workers to eat and drink. Workers found violating this policy may be directed to leave the jobsite.

13. Each Trade Contractor shall be restricted to working hours of **7:00am to 4:00pm** unless alternate arrangements are approved by the Construction Manager. This does not alleviate the Trade Contractor's responsibility to work overtime as required to maintain the schedule.

14. Signs of any type are prohibited, except as specifically assigned by the Contract Documents.

15. Each Trade Contractor shall be responsible for the protection of its own materials, tools, and equipment, and finish work until substantial completion is granted. Damage to or theft of any materials, tools or equipment prior to substantial completion will be repaired or replaced at the Trade Contractor's expense.

16. Each Trade Contractor shall provide all temporary heat, utilities and protection required for the completion of all work as scheduled, except where specifically provided by others in the Contract Documents.

17. Each Trade Contractor shall have their superintendent attend all weekly Trade Contractor Meetings (time & location to be scheduled by Construction Manager).
18. The flow of traffic on City streets and public walkways must be maintained at all times. It shall be this Trade Contractor's responsibility to obtain all permits and provide all labor and material that are necessary for street and sidewalk lane closures. All work involved that impacts existing streets and/or sidewalks or impedes public access in any way shall be coordinated through the Construction Manager **prior to the date of the work.**

19. Each Trade Contractor shall provide personnel for traffic control and traffic coordination during all deliveries of material and equipment required in their scope of work. The Trade Contractor shall coordinate all such activities with the Construction Manager and the City of Cincinnati, Department of Transportation and Engineering.

20. Each Trade Contractor shall secure all permits required by governing authorities for the completion of its own work scope. This includes all Plumbing, HVAC, Traffic or permit that are issued by the City's Department of Transportation and Engineering, street barricade and other special permits. No Permits will be secured by the Construction Manager other than the General Building permit

21. Each Trade Contractor shall submit daily reports and the weekly work plan twenty-four (24) hours before the weekly Trade Contractor meetings. Failure to submit these items each week for the prior week's work will result in rejection of this Trade Contractor's pay request.

22. Testing shall be performed in accordance with the Contract Documents. Where Owner and Trade Contractor testing are specified, the Trade Contractor shall provide complete testing. The Owner may provide additional testing at its discretion.

23. Each Trade Contractor is responsible for the complete review of, and coordination with, the Trade Contract Descriptions for other Trade Contractors. Where overlap occurs, include the cost of such work in your bid, and the Construction Manager will decide which Trade Contractor will perform this work. Appropriate credit will be deducted from the other Trade Contractor's Contract.

24. Each Trade Contractor must provide a full-time superintendent on site throughout the duration of their work on site. This superintendent shall be authorized to make all decisions relative to the work on site and shall be the primary contact for all correspondence. Part-time or token representatives who are not so authorized will not be permitted. Failure to comply with this requirement will result in rejection of this Trade Contractor's pay request. Any change of superintendent shall be pre-approved by the Construction Manager.

25. Time is of the essence. All subcontractors must complete all work within the schedule durations included in the specifications and as updated by the Contractor. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this subcontractor. This project must be performed utilizing prefabrication methods to minimize field welding. Coordination with Structural Engineer to be included. All Trade Contractors must complete all work within the schedule durations included in the specifications. This Trade Contractor is advised to produce and install the system in the most economical and schedule-efficient manner as the Trade Contractor deems appropriate.

26. Each Trade Contractor shall complete the Resource Utilization and Inclusion Tracking Forms that are included in the Specifications or will be provided following award. The forms shall be completed on a monthly basis and submitted with the monthly pay request. Completed resource utilization forms must be submitted with the pay request in

order for the pay request to be processed.

27. Each Trade Contractor will be required to attend several phasing meetings pertaining to Lean Construction. Trade Contractor shall have the appropriate personnel (more than one) attend the reverse phase scheduling meeting. Each Trade Contractor shall participate in the implementation of the Lean Construction process throughout the duration of the Project.

28. Safety hard hats, safety eye protection, High Vis, and Gloves shall be worn by all employees on this job site. This includes all of the Trade Contractor's Subcontractors and Suppliers.

29. All Trade Contractors shall use platform type ladders where ladders are necessary on this project. Other ladder types will not be allowed on site.

30. This Trade Contractor shall comply with all requirements of the Williams-Steiger Occupational Safety and Health Act of 1970 and subsequent amendments thereto. This Trade Contractor shall furnish to the Construction Manager a copy of its Safety Program, including a copy of its Hazardous Material Program, prior to the commencement of work on site. No payment will be made until these documents are received.

31. Any barricade or safety device removed by this Trade Contractor's employees shall be immediately re-erected by Trade Contractor. Upon failure to do so, the Construction Manager may direct the re-erection of it and the cost will be paid by the Trade Contractor.

32. All shop drawings and submittals must be submitted within one week from Notice to proceed, unless otherwise specified. No pay request will be processed until all required submittals have been received.

33. All portions of the existing site and all utilities not part of the Work which are damaged, moved or altered in any way during construction shall be replaced or repaired to the County’s satisfaction at the Trade Contractor’s expense.

34. Each Trade Contractor shall attend the Post Bid Interview. This interview will be scheduled by the Construction Manager. All trade contractors shall be notified in writing of the date the conference will be held.

35. Each Trade Contractor shall update their record / as-built drawings on a monthly basis, the updated as-built shall be submitted to the Construction Manager by the 20th of the month. If the Trade Contractors as-builts are not updated and submitted, the Trade Contractors pay request for that month will not be processed.

36. To facilitate the punch list process, each Trade Contractor must complete its punch list items within 3 business days (excluding weekends) of receipt (via fax, email, or distribution to the site leader) of each punch list item. Failure to complete the punch list will result in a back charge for the total cost, to have others complete the work as

designated by the Construction Manager.

37. Trade Contractor to identify recycle and waste management opportunities when assessing their scope of work. These items will be reviewed at the Pre-Award Meeting.

38. The Construction Manager will be utilizing a web-based information management system to facilitate communications among project partners including but not limited to Owners, Architects, Engineers, Construction Manager, and Trade Contractors. The system being utilized is Autodesk document management software. All trade contractors must have an e-mail address and access to the internet.

    Autodesk will be utilized for the following functions:

    a. Project Contact Directory- this will be maintained by the Construction Manager
    b. Requests for Information Management
    c. Meeting Minutes Distribution
    d. Posting of Official Notices and/or Communications
    e. Submittal Management
    f. Contract Document Management
    g. Contract Drawings in PDF
    h. Site Photographs
    i. Punchlist Management
    j. Field Work Order Management

    The Construction Manager will issue usernames and passwords to each Trade Contractor and will provide training and technical assistants to the user groups. **Use of this system is mandatory**. There will be no costs passed on to the users for access to the system or license fees. Users will be responsible for the costs associated with access to the internet.

2.C.1 CONTRACT DESCRIPTION TC-02: Demolition

The Scope of Work in this Contract TC-02 includes all labor, material, tools, equipment, services, and supervision necessary to complete all work specified herein, in accordance with the Contract Documents, as described below to a complete functional safe and operating state.

Included is the Work as indicated in this Contract Description TC-02 the Drawings, Division 00 General Conditions and Division 01 of the General Requirements. This scope of work includes, but is not necessarily limited to, the following Specification Sections:

02 14 19 Selective Demolition

The following items represent specific inclusions in this Contract TC-02: Demo. They are provided as a guide to aid in the assignment of work and in no way should be construed as being all-inclusive.

This Contract shall include:

1. Traffic control, if required for this work scope, is the responsibility of this Trade Contractor. All Parties having Jurisdiction permits to be included.

2. Trucking, Wide Load Permits, Traffic Control, Road Closures, etc. to be provided by this Trade Contractor as required by Authorities having Jurisdiction and Stadium Operations.

3. Include coordination with Stadium Staff as required.

4. Include Stadium Security Standards, including but not limited to, daily check-in/out, keeping all exterior doors closed, pre-planned deliveries, etc.

5. Take special note of all requirements within section 00 73 19a – Section 3.19 Dropped Object Prevention & Overhead Protection.

6. This Project will follow the 5S protocol. This requires just in time deliveries of all material and equipment. As a result, this Trade Contractor shall only bring enough material and equipment to accommodate between 5 days' worth of installation. All other material must be stored off site and all trucking and storage costs associated to be provided by this Trade Contractor. New shipments of material will only be permitted when the existing 5 days' worth of material has been exhausted.

7. This Trade Contractor shall be responsible for dust/silica control as required for this work scope. Include broom sweeping of areas below as required to remove dust and debris caused by this scope of work.

8. This Trade Contractor is responsible for Daily clean-up of all dunnage, debris, etc. from deliveries and hauling off-site within a timely manner. The term debris shall also include welding rods, dunnage, and torque bolt heads.

9. All trash and debris must follow the *nothing hits the ground/floor* mentality and be placed in hoppers on a continual basis. Hoppers, skip pans, other means of transferring material, etc. to be provided as needed by this Trade Contractor. A minimum of (2) trash hoppers/dump carts per crew must be included. Staging hoppers in other areas of the project will not be permitted.

10. Include proper disposal of all demolished materials in a timely manner. Placement of the dumpsters to be coordinated by the Construction Manager.

11. Dumpsters for all demolition debris to be provided by this TC02 Trade Contractor.

12. **Cranes will be provided by the TC-03 Structural Steel**. TC03 will provide two cranes, including operators. One crane and operator will be used for the East Tower and the other crane and operator will be used for the West Tower. Cranes will be used for all scopes of work and not dedicated to one specific trade contractor. Lift schedule to be coordinated with the Construction Manager. Both cranes will be required from January 15, 2027 through July 22, 2027

13. Review attached Tandano crane GR-1000XL 100 Ton Capacity Hydraulic Rough Terrain Crane Product Guide for capacities, layout, etc. This crane will be located on the East side.

14. TC03 Structural Steel will provide crane on the West side capable of lifting 10,000 pounds at 75%.

15. All rigging and additional cranes/hoisting required to complete this scope of work is included.

16. This Trade Contractor to provide stamped engineered demolition plans and sequencing plans to Engineer of Record for approval prior to start of demolition. Provide stamped engineered demo plan showing process for safe demolition of the structure and max lifting loads based on the plan.

17. <u>ON SEASON</u> work will be required for any components that can be installed prior to structural demolition, Coordination with Construction Manager, Stadium Staff, and Structural Engineer to be included. On Season is typically defined as July 22, 2026- End of season. During the week of home games, work can occur from Monday morning through Thursday at noon. There are no restrictions for away game weeks.

18. All hoisting shall include traffic control and safety-controlled access zones for hoisting as required.

19. Rigging plan to be provided by this Trade Contractor prior to starting work. Rigging plan to be reviewed by Structural engineers. Take into account appropriate slab loading requirements if required.

20. Rigging to be done by certified riggers with appropriate certifications and training. Certified Riggers are required to wear Blue Hi-Viz clothing. Whistle will be required for alerting the surrounding area of a new lift.

21. This Trade Contractor shall include all unloading, distribution, staging, hoisting, rigging, scaffolding, platforms, ladders, planking, guying, sheeting, shoring, bracing, transportation, access for material, equipment and personnel, etc. required to perform this scope of work.

22. Include temporary shoring/bracing as required to provide stability of structure during the demolition process. Access to be reviewed prior to bidding. Note that slabs bearing weight to be verified with THP prior to accessing with equipment. All temporary shoring and bracing to be included in the engineered demolition plan.

23. Provide all labor, materials, tools, equipment and supervision required for a complete demolition scope of work.

24. Time is of the essence. All subcontractors must complete all work within the schedule durations included in the specifications and as updated by the Contractor. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this subcontractor. This project must be performed utilizing prefabrication methods to minimize field welding. Coordination with Structural Engineer to be included. All Trade Contractors must complete all work within the schedule durations included in the specifications. This Trade Contractor is advised to produce and install the system in the most economical and schedule-efficient manner as the Trade Contractor deems appropriate

25. Both the West and East Vertical Transportation Towers will occur simultaneously.

26. Each Tower will be constructed in two phases. Phase 1 will include removal of ramps and construction of new work to +/- Level 500. Phase 2 will include removal of ramps and construction of new work to the lowest level of the project.

27. Provide one foreman for the West Tower and a second foreman for the East Tower.

28. Include considerations for access to the work areas. Areas to be demolished are located inside of an existing structure.

29. Temporary protection such as railing systems, fencing, and other hard barriers to be installed and maintained by TC-02 Demo as required to provide a safe working environment during Demo, including pedestrian protection, after

demolition scope (CAZ's). Danger tape is not permitted on Messer sites. Cones and Bones, Plastic Chain, and flagging are acceptable alternatives unless located at a leading edge. Temporary edge railings to be coordinated with the structural steel. Railing to be located back from slab edges and openings. Railings are to be left in place until permanent conditions are achieved.

30. Protect ramps and railings to remain with plywood protection or similar to prevent damage to ramps and railings that remain.

31. Before demolition begins, provide temporary plywood walls with lockable doors at existing openings into the towers.

32. Remove existing gates. Salvage and store gates for reinstallation where indicated. For notes D04, D09, D10, after removal, provide temporary fence with lockable gates.

33. Provide overhead protection and corrals/fencing for pedestrians walking from covered parking to main security on the West side. Refer to Attachment.

34. Controlled Access Zones (CAZ) will be heavily coordinated with **Construction Manager**. These shall be reorganized and evaluated for need on a daily basis. If this Trade Contractor is not utilizing area below then the CAZ should be removed so other Trade Contractors can work in that area.

35. Provide complete protection of all adjacent existing conditions/finishes including but not limited to roofing, glass, skylights, pedestrian walkways, etc., from dust, slurry, debris, fire, heat, etc. Protection is to be left in place for duration of the project.

36. Include providing and erecting scaffolding systems as needed to access/remove materials to be demolished.

37. Provide all temporary lighting required to complete this scope of work

38. This Trade Contractor's input and communication will be a vital key to ensure the demolition portion of this project is completed safely and on time. This Trade Contractor shall notify the Construction Manager and THP within 24 hours of discovery of any issue that might impede demolition.

39. Include full demolition scope as shown in the documents. Demolition to include, but not limited to concrete slabs, beams, planks, steel, walls, ceilings, railings, columns, equipment, etc., other architectural finishes as indicated, and any corresponding utilities. Cutting and making safe utilities to be by others.

40. Include all utility locates as required to complete ground/concrete penetration permits. This Trade Contractor shall include all utility location services required for this scope of work.

41. Include coordination of any utility removal with Construction Manager and Stadium Staff to evaluate potential impact on adjacent systems.

42. Include Selective Demo of architectural finishes (drywall, ceilings, cmu partitions, etc.) as needed/directed to access structural members to be demolished.

43. Include temporary weather protection, including heat to protect utilities after cmu walls removed.

44. Coordinate any necessary demo of existing fire suppression system with the facility's contracted fire suppression Trade Contractor. Demo of sprinkler lines to be included for areas within demo limits. Temporary removal and reinstallation of areas to remain to be by Fire Suppression Trade Contractor as required for means and methods. Stadium fire systems to be left in operating order.

45. Protect all floor drains from sawcutting slurry by using vacuums or other means. Slurry shall not be allowed to enter storm or sanitary systems.
46. Make safe MEP's will be by others. Removal of storm piping, fire protection piping, electrical conduit wire and lighting is by TC02 Demolition. Further demo of electrical circuits back to boxes/panels outside of demo extents to be by electrical Trade Contractor.

47. Dropping of Objects, etc. is not allowed unless a prior approved plan is reviewed and approved. Construction Manager /Design team reserves the right to reject Trade Contractors' proposed demo plans.

48. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this Trade Contractor. Overtime, additional manpower, and other means should be included to maintain the aggressive schedule**.**

49. Include a detailed schedule and plan based on the provided bid schedule. Plan to include required manpower and duration per level.

50. Shift work, multiple mobilizations and out-of-sequence work could be required.

51. This Trade Contractor is required to attend a pre-construction meeting to review and discuss the site plan, demolition procedures, scaffolding/support plan, and company safety program prior to starting. This information will be submitted a minimum of two (2) weeks prior to the Construction Manager before the pre-construction meeting for review.

52. The Construction Manager will provide general use fire extinguishers on each floor as necessary. Additional fire extinguishers and fire blankets needed for specific tasks shall be provided by this Trade Contractor, including when fire extinguishers are required for hot work permits.

53. Provide all ice and drinking water for this Trade Contractor's workforce.

54. Include final cleaning of work areas of this Trade Contractor's material, debris, etc. prior to Structural Steel Trade Contractor taking over the space.

55. Level 700 will be constructed in two phases. Phase 1 includes the structure over half the opening. Phase two will be completed after the escalators are set.

56. Existing precast concrete structure cannot be used to support the East crane. This Trade Contractor to provide and maintain a shoring support system to allow the crane to travel on the precast structure as identified on the Attachment. The base of all shores to include bearing pads. Shoring to remain in place for the duration of the project and must be removed no later than July 15, 2027. Submit Stamped Engineering drawings to be reviewed by the Engineer of Record. This shoring system must be installed and completed in 5 days.

57. Provide temporary chain link fence panels on the East Tower separating the 40'-0 wide crane path from automobile traffic going to the Admin Building or the Pro-Shop.

58. Provide temporary weather protection under the covered parking area on the West side. Area to be 150'-0 x 40'-0 and conditioned to maintain 55 degrees.

59. Removal of cmu walls is included. Replacement of walls by others

60. Provide OSHA compliant Pre-Demolition Engineering Survey prior to demolition

61. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.

62. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

63. Before staring work, submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control. Indicate proposed locations and construction of barriers.

64. Before starting work, photograph or video existing conditions of adjoining construction including finish surfaces, that might be misconstrued as damage caused by selective demolition operations or removal of items for salvage or reinstallation. Review with Construction Manager and provide a list of all damaged areas.

65. Provide temporary water for all slab cutting, dust prevention, etc. for this scope of work.Provide temporary covers for all openings in the slabs.

66. Provide fire watch during and for at least 4 hours after flame-cutting operations.

67. Refer to notes 13/S102, 5/S201 and 43/S203; Sawcut new door opening in 16" thick concrete shear wall. Chip back concrete up to 2'-0 to expose existing steel.

68. Refer to Note 10/AD211.9.1; Remove existing wall.

69. Refer to note #14/S105 and 14/S109; Cut down top of existing wall to allow for topping slab and waterproofing to run continuously through.

70. Refer to 19/S202 & 21/S202; Remove a portion of existing slab to allow for channel and HSS installation. Remove, modify and reinstall railing as required to complete this work. Coordinate locations with TC03 Structural Steel.

71. Refer to 16/S202; Provide chipping back of concrete to expose flange for installation of studs. Coordinate this work with TC03 Structural steel.

72. Refer to notes D08 & D09/AD211.9.1; Remove, salvage & reinstall existing gates and wire mesh fence. Coordinate timing of removal with construction manager.

73. Refer to 17/S202; remove top of bent plate to allow for dowel installation. Dowel installation by TC04 Concrete

74. Refer to 23/S202; Salvage existing edge plate. Clean and coat prior to placing slab.

75. TC02 Demolition to include removal of the structure that cannot be removed until new steel connections are installed. Include multiple mobilizations as required for these locations. Refer to 31 and 35/S202 and provide removal of slab.

76. Refer to 36/S203; Include demolition under wall after new support steel is installed.

77. Refer to 17/S202; remove top of bent plate to allow for dowel installation. Coordinate limits with tC04 Concrete.

2.C.2 CONTRACT DESCRIPTION TC-03: Structural Steel

The Scope of Work in this Trade Contract TC-03 includes all labor, material, tools, equipment, services, and supervision necessary to complete all work specified herein, in accordance with the Contract Documents, as described below to a complete functional safe and operating state.

Included is the Work as indicated in this Trade Contract Description TC-03 the Drawings, Division 00 General Conditions and Division 01 of the General Requirements. This scope of work includes, but is not necessarily limited to, the following Specification Sections:

03 41 00 Precast Structural Concrete
05 12 00 Structural Steel
05 30 00 Metal Decking
05 52 13 Pipe & Tube Railings

The following items represent specific inclusions in this Contract TC-03: Structural Steel. They are provided as a guide to aid in the assignment of work and in no way should be construed as being all-inclusive.

This Contract shall include:

1. Trucking, Wide Load Permits, Traffic Control, Road Closures, etc. to be provided by this Trade Contractor as required by Authorities having Jurisdiction and Stadium Operations.

2. Include coordination with Stadium Staff as required.

3. Include Stadium Security Standards, including but not limited to, daily check-in/out, keeping all exterior doors closed, pre-planned deliveries, etc.

4. Take special note of all requirements within section 00 73 19a – Section 3.19 Dropped Object Prevention & Overhead Protection

5. This Project will follow the 5S protocol. This requires just in time deliveries of all material and equipment. As a result, this Trade Contractor shall only bring enough material and equipment to accommodate between 5 days' worth of installation. All other material must be stored off site and all trucking and storage costs associated to be provided by this Trade Contractor. New shipments of material will only be permitted when the existing 5 days' worth of material has been exhausted.

6. This Trade Contractor shall be responsible for dust/silica control as required for this work scope. Include broom sweeping of areas below as required to remove dust and debris caused by this scope of work.

7. This Trade Contractor is responsible for Daily clean-up of all dunnage, debris, etc.

from deliveries and hauling off-site within a timely manner. The term debris shall also include welding rods, dunnage, and torque bolt heads. All trash and debris must follow the *nothing hits the ground/floor* mentality and be placed in hoppers on a continual basis. Hoppers, skip pans, other means of transferring material, etc. to be provided as needed by this Trade Contractor. A minimum of (2) trash hoppers/dump carts per crew must be included by this Trade Contractor. Staging hoppers in other areas of the project will not be permitted. Dumpsters to be provided by CONSTRUCTION MANAGER. Dumpsters to be located within reach of the provided tower crane.

8. This Trade Contractor to provide two cranes, including operators. One crane and operator will be used for the East Tower and the other crane and operator will be used for the West Tower. Cranes will be used for all scopes of work and not dedicated to one specific trade contractor. Daily lift schedules to be coordinated with the Construction Manager. Both cranes will be required from January 15, 2027 through July 22, 2027.

9. Review attached Tandano crane GR-1000XL 100 Ton Capacity Hydraulic Rough Terrain Crane Product Guide for capacities, layout, etc. This crane will be located on the East Side

10. Provide crane on the West side capable of lifting 10,000 pounds at 75%.

11. Any additional cranes/hoisting required for moving material that is out of reach of the crane to be included by this Trade Contractor.

12. Provide proposed hoisting plan with submission of bid.

13. The shoring support system to allow the crane to travel on the precast concrete structure on the East side will be provided by TC02 Demolition.

14. Time is of the essence. All subcontractors must complete all work within the schedule durations included in the specifications and as updated by the Contractor. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this subcontractor. This project must be performed utilizing prefabrication methods to minimize field welding. Coordination with Structural Engineer to be included. All Trade Contractors must complete all work within the schedule durations included in the specifications. This Trade Contractor is advised to produce and install the system in the most economical and schedule-efficient manner as the Trade Contractor deems appropriate.

15. Both the West and East Vertical Transportation Towers will occur simultaneously.

16. Each Tower will be constructed in two phases. Phase 1 will include removal of ramps and construction of new work to +/- Level 500. Phase 2 will include removal of ramps and construction of new work to the lowest level of the project.

17. Provide one foreman for the West Tower and a second foreman for the East Tower.

18. Provide traffic control and safety-controlled access zones for hoisting as required.

19. Provide stamped Engineered rigging and erection plan to be provided prior to starting work. Rigging and erection plan to be submitted for review by Engineer of Record for appropriate sequencing, support, etc. This shall include any professional engineering design and cost of systems for items listed above. All temporary means that are dictated by the EREP are to be included including but not limited to additional supports, guying/bracing/cabling, shoring towers, foundations, & temporary attachments. All remediation work from temporary to be included.

20. Rigging to be done by certified riggers with appropriate certifications and training. Certified Riggers are required to wear Blue Hi-Viz clothing. Whistle will be required for alerting the surrounding area of a new lift.

21. Provide all labor, materials, tools, equipment, and supervision required for a complete Structural Steel (Primary, Secondary and Miscellaneous) scope of work for this project. This shall be inclusive of all fabrication, accessories, layout/control, rigging, erection, and warranties as defined in the project drawings and specifications for the Bid Package #2 Documents.

22. This Trade Contractor shall include all unloading, distribution, staging, hoisting, rigging, scaffolding, platforms, ladders, planking, guying, sheeting, shoring, bracing, transportation, access for material, equipment and personnel, etc. required to perform this scope of work.

23. Include temporary shoring/bracing/cabling and erection devices as required to provide stability of structure during steel erection & until all structural elements are complete. Access to be reviewed prior to bidding. Note that slabs bearing weight to be verified with THP prior to accessing with equipment. Complete erection plan to be approved by THP prior to implementation.

24. ON SEASON work will be required for any components that can be installed prior to demolition, i.e. plates connected to existing structure, beams that do not impede head height limits. Coordination with Construction Manager, Stadium Staff, and Structural Engineer to be included. On Season is typically defined as July 22, 2026-End of season. During the week of home games, work can occur from Monday morning through Thursday at noon. There are no restriction for away game weeks.

25. Provide closed cell foam protection board around steel connections that are erected during the on-season to protect pedestrians from running into the steel connection.

26. This Trade Contractor shall provide logistics/freight from their fabrication facilities to the project. The Hilltop Parking lot can be utilized for onsite prefabrication and storage.

27. All shop drawings are to be included. Prefabrication is required and prefabrication plans are to be included during the shop drawing process for Engineer of Record

review. Means and methods of engineering to be included by this Trade Contractor.

28. Include removal of all temporary erection devices and patching of steel: back-up bars, lifting lugs, splice aids, etc.

29. Delegated Design of connections, members, etc. to be included where designated in the documents. Drawings to be stamped by a Registered Engineer as required on each page; including calculations. Provide $1,000,000 Professional Liability Insurance.

30. A 3D as-built model will be provided by the Construction Manager to assist this trade contractor in developing shop drawings and erection. This Trade Contractor to use the model to design, fab and install steel members attached to existing structure and that can be installed during the on-season.

31. Provide all stairs, landings, rails, grouting plates, grout, etc for a complete stair system.

32. Furnish all Delegated Design precast concrete stairs, stair landings and steel railings complete. The sequence of the stair installation shall go up simultaneously with the main structure as to provide safe access from floor to floor. Shop Drawings Stamped by PE; on each page, to be included.

33. All anchor bolts, fasteners, epoxy anchors, post set anchors, embeds, etc. to be included.

34. Furnish all loose and structural steel/SOMD/Grating mounted anchor bolts.

35. Furnish all washers, nuts, leveling nuts, and shim packs as required.

36. Provide all Steel material required to complete the scope of work not indicated within the above items.

37. Provide layout on existing structure identifying limits of demolition. Review with Construction Manager and TC02 Demolition prior to demolition. Provide and maintain hole protection after slab demolition is complete – refer to detail 21/S202.

38. Provide all temporary lighting required to complete this scope of work.

39. This Trade Contractor’s input and communication will be a vital key to ensure the steel portion of this project is furnished and erected safely and on time. This Trade Contractor shall notify the Construction Manager and THP within 24 hours of discovery of any issue that might impede fabrication or erection.

40. Include shop cutting of stock lengths as required to meet schedule. Include releasing steel prior to approved shops if necessary or requested at no additional cost.

41. Provide all metal decking.

42. Provide multiple mobilizations for steel stud installer

43. This Trade Contractor to provide all holes drilled, reamed, etc. as required in the shop or field.

44. Furnish all SOMD pour stops at perimeter as well as shafts/slab openings/box-outs/leave outs as shown on the plans. Caulking/sealing of the pour stops, gap fillers, etc. shall be included and is the responsibility of this Trade Contractor.

45. This Trade Contractor shall include cutting of all metal decking at openings as indicated on the construction documents and shall include but not be limited to stairs, escalators, shafts, etc.

46. Provide all guardrails/cables at leading edges included in the structural steel structure which includes but is not limited to edge perimeter, metal deck perimeter, openings in metal deck created by this Trade Contractor, etc. Provide 3/8" cable handrail, mid-rail, posts, toe boards, mesh, and duct tape flagging per OSHA requirements. Handrail to be steel angle temporary railing or final railing condition. This Trade Contractor must coordinate the final material and location of these guardrails/cables with the Construction Manager prior to procurement. Include a separate mobilization at a later date to come back and remove these items.

47. Provide **safety mesh** at all guardrail locations. Remove temp guardrails and mesh during new railing installation.

48. Include dead ending cable with tightening turnbuckle max every 100LF.

49. Top and mid cables to be separate.

50. Top and mid-rail cable elevations to be set based off SOMD/grating elevation not decking elevation

51. TC03 Structural Steel to provide metal deck access for other trades.

52. Railing Locations to be coordinated so as not to interfere with prefabricated exterior framing, railings, etc. Maintenance of such shall be included for duration of TC03 Structural Steel scope of work.

53. Coordination with all other trades is included to allow each Trade Contractor to install their scope of work.

54. TC02 Demolition to include removal of the structure that cannot be removed until new steel connections are installed. Include coordination with TC02 Demolition and include multiple mobilizations as required for these locations. Refer to 31 and 35/S202.

55. Detail foreman will also act as site quality control manager and be responsible to coordinate with testing / inspection agency. He/she will also be responsible for maintaining a Construction Manager approved quality / inspection plan & log as stipulated.

56. Coordination, scheduling and providing necessary material and equipment including lifts to allow for the third-party inspector to properly inspect structural steel, welds, bolt torque, etc. shall be the responsibility of this Trade Contractor. Any remediation work as the result of a failed inspection shall be the responsibility of this Trade Contractor.

57. This Trade Contractor to provide access for inspections. These inspections will happen during normal working hours, and additional equipment shall be provided as needed so as not to delay scheduled installation of work.

58. Protection of all surrounding areas is included. TC02 Demolition will leave their protections in place during the erection process. Reference TC-02 Demolition Summary of Work for full description of protection. Any additional protection to be by TC-03 Structural Steel.

59. Protect existing spaces from slurry, slag, welding, dust, heat, fire, torque bolt stubs, etc. is included for this scope of work. This Trade Contractor shall at all times protect adjacent finishes, escalators and progressing work during its installation.

60. Provide shop primer/paint, coatings or galvanizing and touch-up paint pertaining to this scope of work as required by the project construction documents and specifications.

61. Include all utility locates as required to complete ground/concrete penetration permits. This Trade Contractor shall include all utility location services required for this scope of work.

62. This Trade Contractor and all its sub-subcontractors to participate in Messer Structural Handoff process.

63. CAZs will be heavily coordinated with Construction Manager. These shall be reorganized and evaluated for need on a daily basis. If this Trade Contractor is not utilizing the area below then the CAZ should be removed so other Trade Contractors can work in that area.

64. Danger Tape is not permitted to be used for CAZ's. A minimum of cones and bones must be included. Each Trade Contractor is responsible for their own CAZ.

65. The Construction Manager will provide general use fire extinguishers on each floor as necessary. Additional fire extinguishers and fire blankets needed for specific

tasks shall be provided by this Trade Contractor including when fire extinguishers are required for hot work permits.

66. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this Trade Contractor. Overtime and additional manpower should be included where required to meet the aggressive erection schedule.

67. Shift work, multiple mobilizations and out-of-sequence work could be required.

68. Include a detailed installation schedule.

69. Provide Shop Drawings & Calcs as specified within four weeks (20 business days) upon receipt of the notice to proceed. The Engineer Erection Plan (EEP) must be submitted (15 business days) after that, however the EEP Engineer must have previously reviewed / approved connections within the SD/Calc Package for temporary erection loads.

70. This Trade Contractor is required to attend a pre-installation meeting to review and discuss the site plan, installation procedures, rigging procedures and company safety program prior to starting. This information will be submitted a minimum of two (2) weeks prior to the Trade Contractor's pre-installation meeting for review.

71. This Trade Contractor's fabrication and erection management staff will be required to attend weekly progress meetings.

72. Steel to be staged on dunnage at all times. Any mud or debris that are on steel must be cleaned off prior to installation.

73. Provide all ice and drinking water for this Trade Contractor's workforce.

74. Include final cleaning of installation areas of this Trade Contractor's material, debris, etc. prior to other Trade Contractors taking over space.

75. Construction Manager will conduct frequent inspections during the work of this Trade Contractor steel erection. Any training needed for Construction Manager to access (unescorted) controlled access zone or steel erection areas to be supplied by this Trade Contractor to provide Construction Manager with full unrestricted access to all portions of project.

76. Level 700 will be constructed in two phases. Phase 1 includes the structure over half the opening. Phase two will be completed after the escalators are set.

77. Provide headhouse structure. Exterior skin systems and finishes will be in a future bid package.

78. Provide removal of precast to access existing column – refer to note 21/S107 (typ.). Provide plastic protection on existing finishes during sawcutting, grinding, welding, etc.

79. Provide removal, salvage and reinstallation of exterior perforated metal panels – refer to note on 1 & 2/ S301.

80. Provide heavy canvass tarps to protect escalators from all welding activities.

81. Provide layout of all hole openings for demolition contractor – refer to 21/S102

82. Coordinate with TC02 Demolition the layout on existing structure identifying limits of demolition. Refer to detail 21 S202

83. Completely clean off all paint/finish at new weld locations on existing steel.

84. Patch/repair steel members remaining from demolition. Coordinate locations with TC02 Demolition.

85. Field survey and measure all existing conditions prior to preparation of shop drawings. Employ a licensed land surveyor for all steel erection work.

86. Inspection by contractor shall be at contractor's expense, by a testing agency or qualified inspector other than that employed by owner and shall be performed before owner's inspection of material involved.

87. Penetration welds: Inspect all (100%) complete and partial penetration welds visually. Inspect all (100%) complete penetration welds by ultrasonic or radiographic tests for entire length of weld. All inspections to occur a minimum of 24 hours after completion of welding.

88. Fillet welds: Inspect all (100%) shop and field fillet welds visually for proper size, quality of weld and placement per reviewed shop drawings. Inspect 5% of a mix of field and shop welds by magnetic particle method, ASTM 109.

89. Mechanical and adhesive anchors: Verify installers are certified and materials are used in conformance with manufacturer's recommendations. Observe hole preparation and installation technique at all anchors as work progresses. Proof test 5% of all anchors in each condition, distributed throughout the project, and at least 1 anchor in each steel framing connection. Amount of testing shall be increased if failures occur.

90. Adhesive anchor installers shall also be certified by a recognized program, such as by ACI and CRSI. Submit documentation of training and certification of personnel prior to performing such work. Provide copy to the owner's inspector.

91. Shear studs: Owner's Inspector will test 100% of the first 100 studs and 50% of the next 200 studs installed shall be bend tested to a 15-degree angle. If more than 4 studs fail, installation shall cease until installation procedures have been adjusted to achieve satisfactory results, and Contractor shall bend test all studs installed to date. For balance of job, bend tests at least 10% of all field-applied shear studs. A

failure rate of not more than 2% of studs tested will be acceptable. Clean all ceramics after stud installation

92. The use of oxygen-cut holes for bolted connections is not permitted under any circumstances.
93.
94. Oxygen cutting of structural steel in the field is not allowed except with the written consent and approval of the owner's structural engineer.

95. Holes into concrete must not interfere with reinforcing bars. The contractor shall review the structural drawings and use ferro-scan, small probe holes or other means to locate reinforcing bars in the area. Space holes to fit around rebar and fabricate fixture to match.

96. Provide all temporary shoring and bracing members as required, with connections of sufficient strength to bear imposed loads, including all construction loads and building code wind loads. Comply with FM bulletin I-7: Furnish, install and remove any shoring necessary for the installation of new structural steel.

97. Provide temporary planking and working platforms as needed for the work. Provide temporary guards on the steel frame at the perimeter of each floor and all floor and roof openings

98. Thoroughly clean and remove dirt, debris, oil, water, and other foreign material from steel and leave ready for painting or fireproofing.

99. Field coat all damaged and abraded areas of galvanized steel with galvanizing repair compound applied per manufacturer's instructions.

100. Field prime paint all welded, damaged and abraded areas and previously unprimed steel at welds, slip critical connections, etc. with same material used for shop painting.

101. Include pour stops and other closures to form concrete at edges, openings, and as needed to contain concrete fill without leaks or migrations.

102. Mechanical fasteners to steel supporting members shall be ICC-ES approved with current ESR and submitted for review prior to use. The Contractor shall arrange for a representative of the manufacturer to provide onsite installation training for their products. Submit documentation of training of personnel prior to performing such work. Provide copy to the Owner's inspector.

103. Provide galvanized finish repair of metal deck.

104. Provide cleaning and coating of existing steel members prior to placing new metal deck

105. Provide roof sump pans over openings in roof decking. Cut opening in roof sump pan to accommodate drain size.

106. Provide additional metal reinforcement and closure pieces as required for strength, continuity of decking, and support of other work shown.

107. Clean composite deck with detergent to remove oil and slick spots that would prevent concrete from bonding. Leave ready for concrete fill, roofing, painting or fireproofing.

108. Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

109. Furnish steel concrete embeds to TC04 for all embeds in new concrete.

110. Provide all Rods, Kwik-Bolts, Threaded Rod, etc attaching steel to existing concrete. Include scanning, core-drilling & grout. Refer to 46/S203.

111. The work sequencing will be phased to accommodate the new structure. The specific sequencing will be finalized after the project is awarded and during the Reverse Phase Schedule meeting. Multiple mobilizations are likely.

112. Temporarily remove steel beams for escalator installation. Reinstall beams after escalators are set.

2.C.3 CONTRACT DESCRIPTION TC-04 Concrete Structure

The Scope of Work in this Contract TC-04 includes all labor, material, tools, equipment, services, and supervision necessary to complete all work specified herein, in accordance with the Contract Documents, as described below to a complete functional safe and operating state.

Included is the Work as indicated in this Contract Description TC-04 the Drawings, Division 00 General Conditions and Division 01 of the General Requirements. This scope of work includes, but is not necessarily limited to, the following Specification Sections:

03 30 00 Cast In Place Concrete

The following items represent specific inclusions in this Contract TC-04: Demo. They are provided as a guide to aid in the assignment of work and in no way should be construed as being all-inclusive.

This Contract shall include:

1. This Trade Contractor shall be responsible for dust/silica control as required for this work scope.

2. Trucking, Wide Load Permits, Traffic Control, Road Closures, etc. to be provided by this Trade Contractor as required by Authorities having Jurisdiction and Stadium Operations.

3. Traffic control, if required for this work scope, is the responsibility of this Trade Contractor. All Parties having Jurisdiction permits to be included.

4. This contractor is responsible for Daily clean-up of all dunnage, debris, etc. from deliveries and hauling off-site within a timely manner.

5. Dumpsters to be provided by the Construction Manager.

6. This subcontractor shall be responsible for daily cleanup of debris during installation including any adjacent surfaces. No trash or debris shall hit the ground/floor. It shall be placed in hoppers on a continual basis. A minimum of 2 trash hoppers/dump carts per crew must be included by this subcontractor.

7. The term debris shall include excess concrete/slurry, rebar/insulation off-falls, and any other material associated with this scope of work. Plastic protection is required to keep slurry from damaging existing finishes that remain.

8. Provide continuous removal of debris/trash. Place debris/trash into trade contractor provided. Hoppers must be emptied at the end of each work shift and returned to the work area. Staging hoppers in other areas of the project will not be permitted.

9. This Project will follow the 5S protocol. This requires just in time deliveries of all material and equipment. As a result, this subcontractor shall only bring enough material and equipment to accommodate between 5 days' worth of installation. All other material must be stored off site and all trucking and storage costs associated to be provided by this subcontractor. New shipments of material will only be permitted when the existing 5 days' worth of material has been exhausted.

10. All rigging associated with this Trade Contract to complete this work is included.

11. Cranes will be provided by the TC-03 Structural Steel. TC03 will provide two cranes, including operators. One crane and operator will be used for the East Tower and the other crane and operator will be used for the West Tower. Cranes will be used for all scopes of work and not dedicated to one specific trade contractor. Lift schedule to be coordinated with the Construction Manager. Both cranes will be required from January 15, 2027 through July 22, 2027

12. Review attached Tandano crane GR-1000XL 100 Ton Capacity Hydraulic Rough Terrain Crane Product Guide for capacities, layout, etc. This crane will be located on the east side.

13. TC03 Structural Steel will provide a crane on the West side capable of lifting 10,000 pounds at 75%.

14. Additional cranes/hoisting outside the limits of the cranes provided by TC03 as required to complete this scope of work is included.

15. This subcontractor shall include all unloading, distribution, staging, hoisting, rigging, scaffolding, platforms, ladders, access for material, equipment and personnel required to perform this scope of work. This shall include any professional engineering design for items listed above.

16. Provide all labor, materials, tools, equipment, safety restraints, hoisting, rigging, services, and supervision required for a complete scope of work for this project.

17. This subcontractor shall provide access/logistics for transporting concrete to the pour site. All pumps, system, equipment, means & methods, etc. to be included.

18. Layout and installation of all anchor bolts and embeds located within SOMD to be included. Anchor bolts and embeds to be furnished by TC03 steel contractor.

19. Placement of all cast-in-place concrete shall be included as shown on the Drawings and per the Specifications.

20. All slab reinforcement (rebar, mesh, etc.) to be included.

21. <u>ON SEASON</u> work will be required for any components that can be installed prior to demolition. Coordination with Construction Manager, Stadium Staff, and Structural Engineer to be included. On Season is typically defined as July 22, 2026- End of

season. During the week of home games, work can occur from Monday morning through Thursday at noon. There are no restriction for away game weeks.

22. Time is of the essence. All subcontractors must complete all work within the schedule durations included in the specifications and as updated by the Contractor. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this subcontractor. This project must be performed utilizing prefabrication methods to minimize field welding. Coordination with Structural Engineer to be included. All Trade Contractors must complete all work within the schedule durations included in the specifications. This Trade Contractor is advised to produce and install the system in the most economical and schedule-efficient manner as the Trade Contractor deems appropriate.

23. Schedules for the West Tower and the East Tower will be concurrent.

24. Provide one foreman for the West Tower and a second foreman for the East Tower.

25. Drill and epoxy of slab dowels/rebar are included. Include installation of these items during the on-season. Coordinate locations with Construction Manager.

26. Coordination with any MEP work located in slabs to be included.

27. This subcontractor shall notify the contractor and THP within 24 hours of discovery of any issue that might impede this contractor's scope of work.

28. Provide all contractor required inspections as required by the specifications.

29. Include coordination with third-part inspection/testing agency. Coordination shall be carried out in a timely manner so as to allow proper testing/sampling to be taken at each concrete placement.

30. Include participation in Messer's Structural Handoff process for each area of SOMD prior to concrete placement.

31. Include formwork of any slab box-outs as required on Drawings.

32. Provide all temporary lighting required to complete this scope of work

33. Include separate placements/mobilizations as required to fit project flow/schedule.

34. Include slab insulation as shown on Drawings to be placed after SOMD pour and before topping slab pour.

35. Concrete placement shall comply with all FF/FL requirements outlined in the Specifications.

36. Perimeter guardrails to be provided by others. Any modifications to perimeter fall protection to complete this scope of work is included. Coordination of such

modifications to be the responsibility of this contractor. Modifications shall not reduce the effectiveness of the fall protection.

37. This subcontractor shall at all times protect adjacent finishes and progressing work during its installation. Existing fire suppression and fire alarm will be in operation throughout the project.

38. Protection of existing spaces from slurry, dust, etc to be included for this scope of work. Cleanup shall be completed on a continuous basis.

39. Metal deck access shall be provided by TC03 steel contractor.

40. TC03 Structural Steel will provide precast steps and steel landings. TC-04 to provide concrete work for the landings.

41. This subcontractor shall include all utility location services required for this scope of work.

42. Controlled Access Zones (CAZs) will be heavily coordinated with CM. These shall be reorganized and evaluated for need on a daily basis. If this subcontractor is not utilizing area below then the CAZ should be removed so other contractors can work in that area.

43. Danger Tape is not permitted to be used for CAZ's. Minimum of cones and bones must be included.

44. Fire extinguishers to be provided as needed for this scope of work.

45. This subcontractor is required to attend a pre-installation meeting to review and discuss the site plan, concrete placement procedures, deck access, pump plans, and company safety program prior to starting. This information will be submitted a minimum of two (2) weeks prior to the Contractor before pre-installation meeting for review.

46. Provide submittals as specified within two weeks (10 days) upon receipt of the notice to proceed.

47. Deck reinforcement to be staged on dunnage at all times, any mud or debris must be cleaned off prior to installation.

48. Provide all Ice and drinking water for this subcontractor's work force.

49. Shift work, multiple mobilizations and out of sequence work could be required.

50. Include coordination with Stadium staff as required.

51. Include final cleaning of work areas of this contractor's material, debris, etc. prior to mobilization of subsequent contractors.

52. Include Stadium Security standards including but not limited to daily check in/out, keeping all exterior doors closed, pre-planned deliveries, etc.

53. Include a detailed schedule and plan; based on the provided bid schedule. Plan to include required man power and durations per side (East and West).

54. Level 700 will be constructed in two phases. Phase 1 includes the structure over half the opening. Phase two will be completed after the escalators are set.

55. The shoring support system to allow the crane to travel on the precast structure will be provided by TC02 Demolition.

56. Provide wash out boxes for all pours. Washout to occur in the parking lot at the old Hilltop Concrete plant. Include removal & disposal of wash out box.

57. Provide lower level concrete wall – refer to 18/S102 and 14/S201.

58. Provide heavy canvass tarps to protect escalators from all concrete pours.

59. Maximum length between construction joints is 120’-0

60. Provide & epoxy coat all reinforcing steel, including all resteel embedded into existing concrete and precast.

61. Since the epoxy coating is flammable, the coated bars shall not be exposed to any fire or flame. Cutting coated bars by burning will not be permitted.

62. All reinforcement at the site shall be stored off the ground and protected from damage, accumulation of dirt and excessive rust.

63. Provide material and placement of one (1 ea.) ton of contingency reinforcing steel.

64. Submit mix designs at least three weeks prior to the planned use of that mix

65. Submit request for approval to use admixtures.

66. The submitted mix designs shall address weather conditions that are expected to occur during the concrete construction phase. Concrete mixes shall not only be designed for average temperature and humidity conditions, but also for adverse conditions (hot and cold weather), as applicable to this project.

67. Hot/cold weather concrete placement and curing methods shall comply with the Specifications.
68. Waterproofing will be provided by others.

69. Provide curing boxes

70. Remove chips, wood, sawdust, dirt and debris just before concrete is placed.

71. Caulk all openings in metal deck to prevent concrete slurry from leaking onto finishes below.

72. Provide all clips, chairs, bars, and bar supports and other metallic materials used for installation or support of epoxy-coated reinforcing.

73. Where new concrete is poured against existing, provide bonding agent.

74. Provide curing of all concrete surfaces

75. Make provisions in advance for wind-breaks, shading, fogging, sprinkling, ponding, or wet curing as dictated by conditions at time of concrete placement.

76. Pumping pipes and hoses shall be supported above in-place reinforcing on plywood or tires to cushion impacts, prevent abrasions of epoxy coatings and prevent displacement of reinforcement.

77. Assume 1/2 in. average extra concrete will be required to account for deflection of metal deck.

78. Refer to notes 13/S102 and 5/S201; provide new resteel and rework existing resteel as required for new door opening in 16” thick concrete shear wall. Provide forming & pouring of concrete to obtain opening for door # 3.04.02

79. Install steel concrete embeds provided by TC03 Structural Steel for all embeds in new concrete.

80. Refer to 09/A503; Provide concrete curb under steel pipe rail and sequence as a separate pour.

81. Refer to 22/S202; Provide concrete curb and sequence as a separate pour.

End of Section

SECTION 01 21 00 - ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements governing allowances.

B. Types of allowances include the following:

1. Lump-sum allowances.
2. Unit-cost allowances.
3. Quantity allowances.
4. Contingency allowances.
5. Testing and inspecting allowances.

C. Related Requirements:

1. Section 01 22 00 – Unit Prices for procedures for using unit prices.

1.2 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Subcontract to the Trade Contractor, advise Construction Manager of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.

B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

C. Purchase products and systems selected by Architect from the designated supplier.

1.3 ACTION SUBMITTALS

A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.

1.4 INFORMATIONAL SUBMITTALS

A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.

C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.5 COORDINATION

A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 LUMP-SUM ALLOWANCES

A. Allowance shall include cost to Trade Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include material, sales and/or use tax, labor (and/or erection), overhead, tools, equipment, delivery to project site, unloading and warehousing if necessary.

B. This type of allowance shall be adjusted by the difference of the allowed amount vs. actual expenditures performed on a T&M basis, usually with pre-agreed to unit rates.

C. Example: A bid category for masonry may include a Lump Sum Allowance of $5,000 for temporary heating. The bidder shall include this $5,000 allowance in its Base Bid and document actual expenditures to the Construction Manager. The bidder's contract amount will then be adjusted based on actual usage.

D. Allowance usage Change Orders shall not include mark ups when being utilized.

1.7 MATERIAL ALLOWANCES

A. The allowance itself shall include the cost of purchasing the specified materials only, including sales and use tax if applicable. The cost of labor (and/or erection), overhead, profit, tools, equipment, delivery, unloading, warehousing, etc. shall be included in the Base Bid and shall NOT be included in the stated allowance.

B. This type of allowance shall be adjusted by the difference of the allowed material purchase price and the actual purchase price, either additive or deductive, with no consideration given for either increased or decreased OH&P.

C. Example: A bid category for carpet may include a Material Allowance of $15.00/sy to purchase carpet. The cost for installation, tools, equipment, delivery, unloading, warehousing, overhead, profit, etc. shall be included in the Base Bid and are not part of the allowance.

D. Trade Contractor shall submit proposals to Construction Manager for materials selections by the Architect. After selection, Trade Contractor shall follow normal submittal procedures.

E. Trade Contractor shall note if Contract Time will be affected with any material selection.

F. Invoices shall be submitted to the Construction Manager to verify actual purchase amounts and quantities.

1.8 QUANTITY ALLOWANCES

A. The allowance itself is to adjust quantity only. All costs such as material, sales tax, labor (and/or erection), overhead, profit, tools, equipment, delivery, unloading, warehousing, etc. shall be included in the Base Bid.

B. This type of allowance shall be adjusted by the difference in the allowed quantity vs. the actual quantity times a unit price, which includes all material, labor, equipment, OH&P, etc.

C. Example: A bid category for steel may include a Quantity Allowance of 5 tons of misc. steel that may not be designed at the time of bidding. The bidder shall include the cost of furnishing, fabricating and installing (erecting) this 5 tons of misc. steel in the Base Bid and a unit price to adjust the bidder's contract amount if the actual quantity is different from the allowed amount.

D. Sufficient documentation to substantiate the quantity difference shall be submitted to the Construction Manager.

1.9 UNUSED MATERIALS

A. Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.

1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

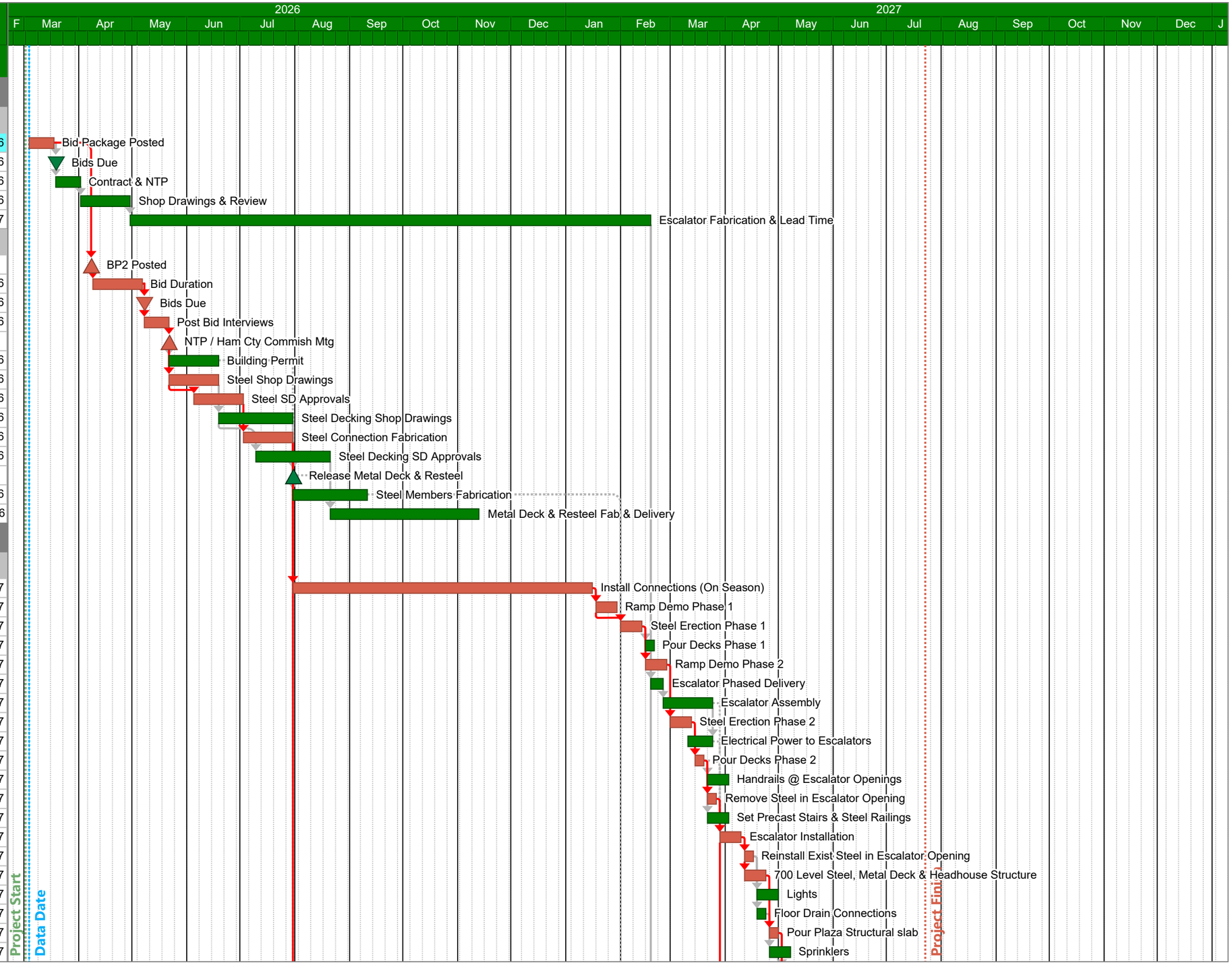
PART 2 - SCHEDULE OF ALLOWANCES

2.1

A.	TC-02	Structural Steel	$350,000
B.	TC-03	Demolition	$350,000
C.	TC-04	Concrete Structure	$150,000

END OF SECTION 01 21 00

ID	Description	Days	Start	Finish
South VT Towers				
Preconstruction				
Bid Pack 1				
100	Bid Package Posted	10	03/04/26	03/17/26
200	Bids Due	0		03/18/26
300	Contract & NTP	10	03/19/26	04/01/26
400	Shop Drawings & Review	20	04/02/26	04/29/26
500	Escalator Fabrication & Lead Time	210	04/30/26	02/17/27
Bid Pack 2				
600	BP2 Posted	0	04/08/26	
2000	Bid Duration	20	04/09/26	05/06/26
2100	Bids Due	0		05/07/26
2200	Post Bid Interviews	10	05/08/26	05/21/26
2300	NTP / Ham Cty Commish Mtg	0	05/22/26	
2325	Building Permit	20	05/22/26	06/18/26
2400	Steel Shop Drawings	20	05/22/26	06/18/26
2500	Steel SD Approvals	20	06/05/26	07/02/26
2450	Steel Decking Shop Drawings	30	06/19/26	07/30/26
2600	Steel Connection Fabrication	20	07/03/26	07/30/26
2475	Steel Decking SD Approvals	30	07/10/26	08/20/26
2462	Release Metal Deck & Resteel	0	07/31/26	
2487	Steel Members Fabrication	30	07/31/26	09/10/26
2468	Metal Deck & Resteel Fab & Delivery	60	08/21/26	11/12/26
Construction				
Construction East				
2700	Install Connections (On Season)	121	07/31/26	01/15/27
2350	Ramp Demo Phase 1	10	01/18/27	01/29/27
2493	Steel Erection Phase 1	10	02/01/27	02/12/27
2370	Pour Decks Phase 1	5	02/15/27	02/19/27
2375	Ramp Demo Phase 2	10	02/15/27	02/26/27
700	Escalator Phased Delivery	5	02/18/27	02/24/27
800	Escalator Assembly	20	02/25/27	03/24/27
2495	Steel Erection Phase 2	10	03/01/27	03/12/27
750	Electrical Power to Escalators	10	03/11/27	03/24/27
2900	Pour Decks Phase 2	5	03/15/27	03/19/27
2497	Handrails @ Escalator Openings	10	03/22/27	04/02/27
2546	Remove Steel in Escalator Opening	5	03/22/27	03/26/27
3000	Set Precast Stairs & Steel Railings	10	03/22/27	04/02/27
900	Escalator Installation	10	03/29/27	04/09/27
912	Reinstall Exist Steel in Escalator Opening	5	04/12/27	04/16/27
918	700 Level Steel, Metal Deck & Headhouse Structur	10	04/12/27	04/23/27
925	Lights	10	04/19/27	04/30/27
950	Floor Drain Connections	5	04/19/27	04/23/27
919	Pour Plaza Structural slab	5	04/26/27	04/30/27
975	Sprinklers	10	04/26/27	05/07/27

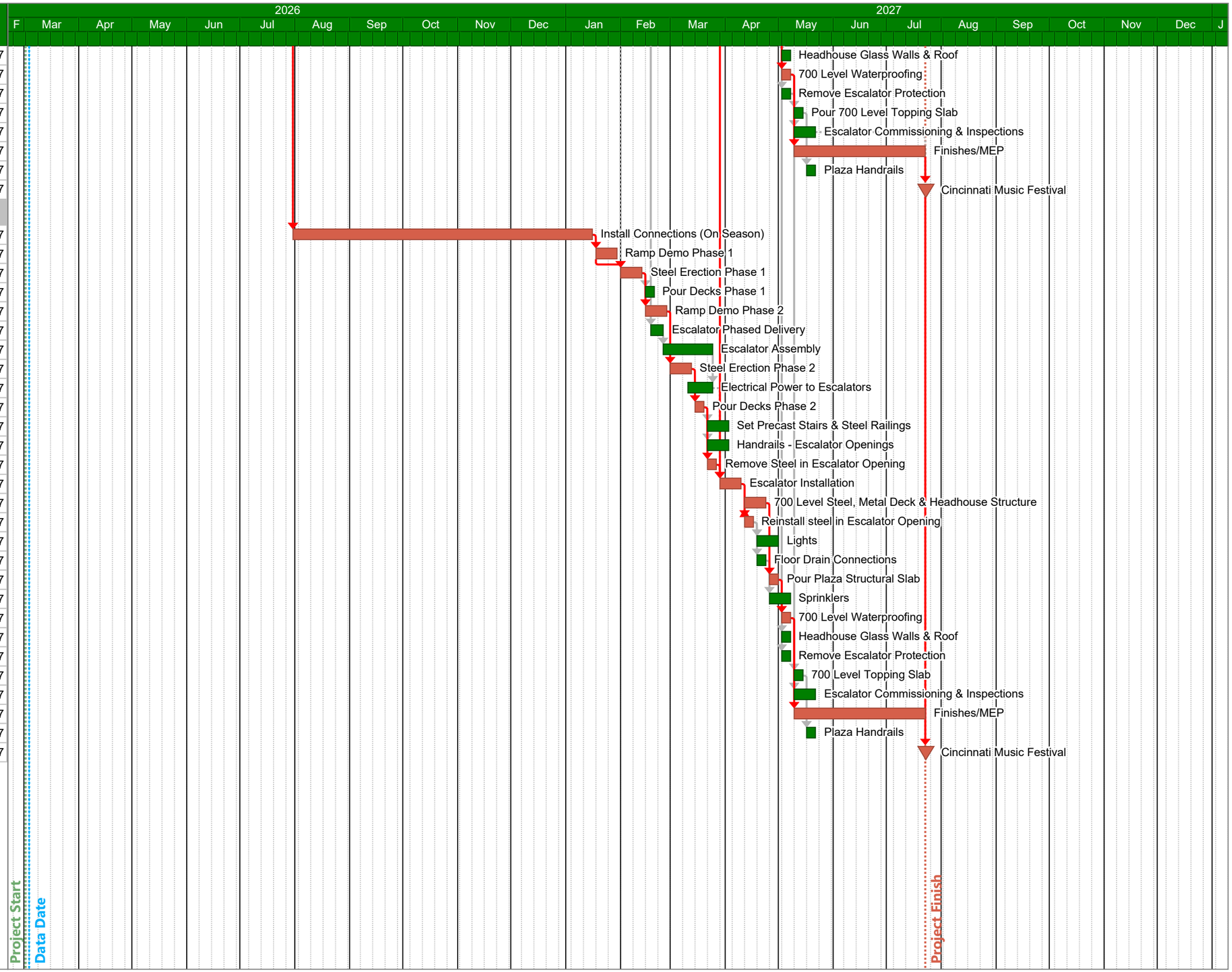


Start Date: 03/02/26
Data Date: 03/04/26

Paycor Stadium
South VT Towers
Bid Package 2 - Addendum #1
April 29, 2026

Messer
WeAreBuilding.

ID	Description	Days	Start	Finish
924	Headhouse Glass Walls & Roof	5	05/03/27	05/07/27
934	700 Level Waterproofing	5	05/03/27	05/07/27
1000	Remove Escalator Protection	5	05/03/27	05/07/27
938	Pour 700 Level Topping Slab	5	05/10/27	05/14/27
1100	Escalator Commissioning & Inspections	10	05/10/27	05/21/27
2150	Finishes/MEP	54	05/10/27	07/22/27
920	Plaza Handrails	5	05/17/27	05/21/27
1300	Cincinnati Music Festival	0		07/22/27
	Construction West			
2800	Install Connections (On Season)	121	07/31/26	01/15/27
2650	Ramp Demo Phase 1	10	01/18/27	01/29/27
2593	Steel Erection Phase 1	10	02/01/27	02/12/27
2410	Pour Decks Phase 1	5	02/15/27	02/19/27
2594	Ramp Demo Phase 2	10	02/15/27	02/26/27
1775	Escalator Phased Delivery	5	02/18/27	02/24/27
1750	Escalator Assembly	20	02/25/27	03/24/27
2595	Steel Erection Phase 2	10	03/01/27	03/12/27
1690	Electrical Power to Escalators	10	03/11/27	03/24/27
2637	Pour Decks Phase 2	5	03/15/27	03/19/27
2596	Set Precast Stairs & Steel Railings	10	03/22/27	04/02/27
2597	Handrails - Escalator Openings	10	03/22/27	04/02/27
2625	Remove Steel in Escalator Opening	5	03/22/27	03/26/27
1600	Escalator Installation	10	03/29/27	04/09/27
921	700 Level Steel, Metal Deck & Headhouse Structur	10	04/12/27	04/23/27
1612	Reinstall steel in Escalator Opening	5	04/12/27	04/16/27
1625	Lights	10	04/19/27	04/30/27
1650	Floor Drain Connections	5	04/19/27	04/23/27
923	Pour Plaza Structural Slab	5	04/26/27	04/30/27
1675	Sprinklers	10	04/26/27	05/07/27
929	700 Level Waterproofing	5	05/03/27	05/07/27
943	Headhouse Glass Walls & Roof	5	05/03/27	05/07/27
1700	Remove Escalator Protection	5	05/03/27	05/07/27
931	700 Level Topping Slab	5	05/10/27	05/14/27
1800	Escalator Commissioning & Inspections	10	05/10/27	05/21/27
2175	Finishes/MEP	54	05/10/27	07/22/27
922	Plaza Handrails	5	05/17/27	05/21/27
1900	Cincinnati Music Festival	0		07/22/27



DIVISION 02 – EXISTING CONDITIONS
SECTION 02 41 19
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. The Work of this Section Includes:

1. Demolition and removal of selected portions of exterior or interior of building or structure and site elements.
2. Removal and salvage of existing items for delivery to Owner and removal of existing items for reinstallation.

1.2 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.3 PREINSTALLATION MEETINGS

A. Pre-demolition Conference: Conduct conference at **Project site**.

1.4 INFORMATIONAL SUBMITTALS

A. Engineering Survey: Submit engineering survey of condition of building.

B. Survey of Existing Conditions: Submit survey.

C. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property**, for environmental protection, for dust control**. Indicate proposed locations and construction of barriers.

D. Schedule of selective demolition activities with starting and ending dates for each activity.

E. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician.

1.5 CLOSEOUT SUBMITTALS

A. Inventory: Submit a list of items that have been removed and salvaged.

1.6 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: **Universal** certified by an EPA-approved certification program.

1.7 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials:

1. It is not expected that hazardous materials will be encountered in the Work.

a. Hazardous materials will be removed by Owner before start of the Work.
b. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

E. On-site sale of removed items or materials is not permitted.

1.8 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. **Perform** an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.

C. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video.

1. Inventory and record the condition of items to be removed for salvage or reinstallation. Photograph or video conditions that might be misconstrued as damage caused by removal.
2. Photograph or video existing conditions of adjoining construction including finish surfaces, that might be misconstrued as damage caused by selective demolition operations or removal of items for salvage or reinstallation.

3.2 PREPARATION

A. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

B. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location **and cleaned** and reinstalled in their original locations after selective demolition operations are complete.

D. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment in accordance with 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 UTILITY SERVICES AND BUILDING SYSTEMS

A. Existing Services/Systems to Remain: Maintain utilities and building systems and equipment to remain and protect against damage during selective demolition operations.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utilities and building systems serving areas to be selectively demolished.

1. Owner will arrange to shut off indicated utilities when requested by Contractor.
2. Arrange to shut off utilities with utility companies.
3. If disconnection of utilities and building systems will affect adjacent occupied parts of the building, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to those parts of the building.
4. Demolish and remove existing building systems, equipment, and components indicated on Drawings to be removed.

    a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
    b. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
    c. Equipment to Be Removed: Disconnect and cap services and remove equipment and components.

5. Abandon existing building systems, equipment, and components indicated on Drawings to be abandoned in place.

    a. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
    b. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

6. Remove and reinstall/salvage existing building systems, equipment, and components indicated on drawings to be removed and reinstalled or removed and salvaged:

    a. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment and components; when appropriate, reinstall, reconnect, and make equipment operational.
    b. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and components and deliver to Owner.

3.4 SALVAGE/REINSTALL

A. Removed and Salvaged Items:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area **designated by Owner**
5. Protect items from damage during transport and storage.

B. Removed and Reinstalled Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.

4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

3.5 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
4. Maintain fire watch during and for at least 4 hours after flame-cutting operations.
5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Coordinate with owner to maintain facility accessibility for selective demolition occurring prior to Ramp Demo Phase 1 as noted in Section 01 32 16.

3.6 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and recycle or dispose of them in accordance with Project requirements.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."

B. Burning: Do not burn demolished materials.

3.7 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 41 19

DIVISION 03 – CONCRETE
SECTION 03 41 00
PRECAST STRUCTURAL CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Precast structural concrete stairs.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project site**

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Design Mixtures: For each precast concrete mixture.

C. Shop Drawings:

1. Include member locations, plans, elevations, dimensions, shapes and sections, openings, support conditions, and types of reinforcement, including special reinforcement.
2. Detail fabrication and installation of precast structural concrete units, including connections at member ends and to adjoining construction.
3. Erection drawings shall show dimensions for proper fabrication; reinforcing steel sizes, grades and locations; inserts accessories and handling methods; calculations for reinforcing; details, sections, jointing, anchoring, and all other necessary information

D. Delegated Design Submittals: For precast structural concrete indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For **Installer**, **fabricator, testing agency**.

B. Welding certificates.

C. Material certificates.

D. Material Test Reports: For aggregates. Perform all concrete testing in accordance with PCI MNL-116 requirements.

E. Source quality-control reports.

F. Field quality-control **and special inspection** reports.

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: A firm that assumes responsibility for engineering precast structural concrete units to comply with performance requirements. Responsibility includes preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.

1. Designated as a PCI-certified plant as follows:

a. Group C, **Category C1 - Precast Concrete Products (no prestressed reinforcement** -

B. Quality-Control Standard: For manufacturing procedures, testing requirements, and quality-control recommendations for types of units required, comply with PCI MNL 116, "Manual for Quality Control for Plants and Production of Structural Precast Concrete Products."

C. Erector Qualifications: Precast Prestressed Concrete Institute Qualified Erector and regularly engaged for at least 5 years in the erection of precast structural concrete similar to the requirements of this project. Retain a registered structural engineer to certify that erection is in accordance with design requirements

D. Codes and Standards: Comply with provision of following codes, specifications and standards, except as otherwise indicated.
1. ACI 301 “Specifications for Structural Concrete”.
2. ACI 318 “Building Code Requirements for Structural Concrete”.
3. Concrete Reinforcing Steel Institute, “Manual of Standard Practice”. 3
4. Precast Prestressed Concrete Institute MNL 116, Manual for Quality Control for Plants and Production of Precast Concrete Products”.
5. Precast Prestressed Concrete Institute MNL 135, “Tolerance Manual for Precast and Pre-stressed Concrete Construction”.
6. Precast Prestressed Concrete Institute MNL 120, “PCI Design Handbook”.
7. American Welding Society, AWS D1.1 “Structural Welding Code-Steel”, D1.4 “Structural Welding Code – Reinforcing Steel”, D1.6 “Structural Welding Code - Stainless Steel”, C5.4, “Recommended Practices for Stud Welding”.

F. Performance Requirements:

1. Delegated Design: Design precast concrete stairs, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

2. Structural Performance: Provide precast structural concrete units and connections capable of withstanding the following design loads within limits and under conditions indicated:

a. Stairs shall be designed to support the full dead load plus 100 psf live load.

b. short term and long term deflection shall be no greater than Table 9.5 (b) of ACI-318.

1.6 COORDINATION

A. Furnish loose connection hardware and anchorage items to be embedded in or attached to other construction before starting that Work. Provide locations, setting diagrams, templates, instructions, and directions, as required, for installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design precast structural concrete units.

B. Design Standards: Comply with ACI 318 (ACI 318M) and with design recommendations in PCI MNL 120, "PCI Design Handbook - Precast and Prestressed Concrete," applicable to types of precast structural concrete units indicated.

C. Structural Performance: Precast structural concrete units and connections to withstand design loads indicated within limits and under conditions indicated.

1. Fire-Resistance Rating: Select material and minimum thicknesses to provide indicated fire rating.

2.2 REINFORCING MATERIALS

A. Epoxy-Coated Reinforcing Bars: **ASTM A615/A615M, Grade 60 (Grade 420)** deformed bars, **ASTM A775/A775M or ASTM A934/A934M** epoxy coated, with less than 2 percent damaged coating in each 12-inch (300-mm) bar length.

B. Low-Alloy-Steel Reinforcing Bars: ASTM A706/A706M, deformed.

C. Steel Bar Mats: ASTM A184/A184M, fabricated from **ASTM A615/A615M, Grade 60 (Grade 420)** deformed bars, assembled with clips.

D. Epoxy-Coated-Steel Wire: ASTM A884/A884M, Class A coated, **deformed**, flat sheet, **Type 1 bendable** coating.

E. Plain-Steel Welded Wire Reinforcement: ASTM A 185 or A497 fabricated from plain steel wire into flat sheets having a minimum yield strength of 70,000psi.

F. Deformed-Steel Welded Wire Reinforcement: ASTM A497/A497M or ASTM A1064/A1064M, flat sheet.

G. Supports: Suspend reinforcement from back of mold or use bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place according to PCI MNL 116.

2.3 PRESTRESSING TENDONS

A. Strand: ASTM A416/A416M, Grade 270 (Grade 1860), uncoated, seven-wire, low-relaxation strand.

1. Coat unbonded post-tensioning strand with post-tensioning coating complying with ACI 423.7 and sheath with polypropylene tendon sheathing complying with ACI 423.7. Include anchorage devices and coupler assemblies.

2.4 CONCRETE MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I or Type III, gray, unless otherwise indicated.

B. Supplementary Cementitious Materials:

1. Pozzolans: ASTM C618, Class C, F, or N, with maximum loss on ignition of 3 percent.
2. Metakaolin: ASTM C618, Class N.
3. Silica Fume: ASTM C1240, with optional chemical and physical requirement.
4. Ground Granulated Blast-Furnace Slag: ASTM C989, Grade 100 or 120.

C. Normal-Weight Aggregates: Except as modified by PCI MNL 116, ASTM C33/C33M, with coarse aggregates complying with **Class 5M**. Stockpile fine and coarse aggregates for each type of exposed finish from a single source (pit or quarry) for Project.

D. Water: Potable; free from deleterious material that may affect color stability, setting, or strength of concrete and complying with chemical limits of PCI MNL 116.

E. Air-Entraining Admixture:
1. Air entrainment agents shall conform to ASTM C 260.
2. Precast elements exposed to weather or vulnerable to deicers shall have 6% + 1.5% of air entrainment.
3. Water reducing agent shall conform to ASTM C 494, Type A.
4. High range water reducing agent shall conform to ASTM C494 Type A.

F. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and to not contain calcium chloride, or more than 0.15 percent chloride ions or other salts by weight of admixture.

2.5 STEEL CONNECTION MATERIALS

A. Carbon-Steel Shapes and Plates: ASTM A36/A36M.

B. Carbon-Steel-Headed Studs: ASTM A108, Grade 1010 through 1020, cold finished, AWS D1.1/D1.1M, Type A or B, with arc shields and with minimum mechanical properties of PCI MNL 116.

C. Carbon-Steel Plate: ASTM A283/A283M, Grade C.

D. Malleable-Iron Castings: ASTM A47/A47M, Grade 32510 or Grade 35028.

E. Carbon-Steel Castings: ASTM A27/A27M, Grade 60-30 (Grade 415-205).

F. High-Strength, Low-Alloy Structural Steel: ASTM A572/A572M.

G. Carbon-Steel Structural Tubing: ASTM A500/A500M, Grade B or Grade C.

H. Wrought Carbon-Steel Bars: ASTM A675/A675M, Grade 65 (Grade 450).

I. Deformed-Steel Wire or Bar Anchors: ASTM A496/A496M or ASTM A706/A706M.

J. Carbon-Steel Bolts and Studs: ASTM A307, Grade A (ASTM F568M, Property Class 4.6); carbon-steel, hex-head bolts and studs; carbon-steel nuts, ASTM A563/A563M; and flat, unhardened steel washers, ASTM F844.

K. High-Strength Bolts, Nuts, and Washers: ASTM F3125/F3125M, Grade A325 (Grade A325M), Type 1, heavy-hex steel structural bolts; ASTM A563/A563M heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers.

1. Finish: **Hot-dip zinc coating**.

L. High-Strength Bolts, Nuts, and Washers: ASTM F3125/F3125M, Grade A490 (Grade A490M), Type 1, heavy-hex steel structural bolts; ASTM A563/A563M heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers; all with plain finish.

M. Zinc-Coated Finish: For exterior steel items**, steel in exterior walls,** and items indicated for galvanizing, apply zinc coating by **hot-dip process according to ASTM A123/A123M or ASTM A153/A153M**.

1. Galvanizing Repair Paint: High-zinc-dust-content paint with dry film containing not less than 94 percent zinc dust by weight, and complying with DOD-P-21035B or SSPC-Paint 20.

N. Shop-Primed Finish: Prepare surfaces of nongalvanized-steel items, except those surfaces to be embedded in concrete, according to requirements in SSPC-SP 3, and shop apply **lead- and chromate-free, rust-inhibitive primer, complying with performance requirements in MPI 79**according to SSPC-PA 1.

2.6 BEARING PADS

A. Provide bearing pads for precast structural concrete units as recommended by precast fabricator for application.

2.7 METAL TREAD NOSING

A. Provide Abrasive Cast Safety Treads and Nosings cast at each tread.

1. Product: Wooster Products, Inc., 3" Type 101, Ferrogrit, abrasive cast iron tread nosing for poured concrete or equal.
2. Material: Class 20 iron, with cross hatching and fluting shot one coat black paint.
3. Nosings to terminate 3" from ends of steps on each side.

2.8 GROUT MATERIALS

A. Sand-Cement Grout: Portland cement, ASTM C150/C150M, Type I, and clean, natural sand, ASTM C144 or ASTM C404. Mix at ratio of 1 part cement to 2-1/2 to 3 parts sand, by volume, with minimum water required for placement and hydration. Water-soluble chloride ion content less than 0.06 percent by weight of cement when tested according to ASTM C1218/C1218M.

B. Nonmetallic, Nonshrink Grout: Packaged, nonmetallic, noncorrosive, nonstaining grout containing selected silica sands, portland cement, shrinkage-compensating agents, plasticizing and water-reducing agents, complying with ASTM C1107/C1107M, Grade A for drypack and Grades B and C for flowable grout and of consistency suitable for application within a 30-minute working time. Water-soluble chloride ion content less than 0.06 percent by weight of cement when tested according to ASTM C1218/C1218M.

C. Epoxy-Resin Grout: Two-component, mineral-filled epoxy resin; ASTM C881/C881M, of type, grade, and class to suit requirements.

2.9 CONCRETE MIXTURES

A. Prepare design mixtures for each type of precast concrete required.

1. Use fly ash, pozzolan, ground granulated blast-furnace slag, and silica fume as needed to reduce the total amount of portland cement, which would otherwise be used, by not less than 40 percent.
2. Limit use of fly ash to **20** percent replacement of portland cement by weight and ground granulated blast-furnace slag to **40** percent of portland cement by weight; metakaolin and silica fume to 10 percent of portland cement by weight.

B. Design mixtures may be prepared by a qualified independent testing agency or by qualified precast plant personnel at precast structural concrete fabricator's option.

C. Limit water-soluble chloride ions to maximum percentage by weight of cement permitted by ACI 318 (ACI 318M) or PCI MNL 116 when tested according to ASTM C1218/C1218M.

D. Normal-Weight Concrete Mixtures: Proportion **face and backup mixtures or full-depth mixtures, at fabricator's option** by either laboratory trial batch or field test data methods according to ACI PRC-211.1, with materials to be used on Project, to provide normal-weight concrete with the following properties:

1. Compressive Strength (28 Days): 5000 psi (34.5 MPa).
2. Maximum Water-Cementitious Materials Ratio: 0.45.

E. Water Absorption: Limit water absorption to 6 percent by weight or 14 percent by volume, tested according to ASTM C642, except for boiling requirement.

F. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content complying with PCI MNL 116.

G. When included in design mixtures, add other admixtures to concrete mixtures according to manufacturer's written instructions.

H. Concrete Mix Adjustments: Concrete mix design adjustments may be proposed if characteristics of materials, Project conditions, weather, test results, or other circumstances warrant.

2.10 FABRICATION

A. Casting shall be done in rigidly constructed forms designed to produce dimensionally correct members with uniform surfaces per shop drawings. Provide finished units, which are straight, true to size and shape, and within specified casting tolerances. Make exposed edges sharp, straight, and square. Make flat surfaces into a true plane

B. Cast-in Anchors, Inserts, Plates, Angles, and Other Anchorage Hardware: Fabricate anchorage hardware with sufficient anchorage and embedment to comply with design requirements. Accurately position for attachment of loose hardware, and secure in place during precasting operations. Locate anchorage hardware where it does not affect position of main reinforcement or concrete placement.

1. Weld-headed studs and deformed bar anchors used for anchorage according to AWS D1.1/D1.1M and AWS C5.4, "Recommended Practices for Stud Welding."

C. Furnish loose hardware items including steel plates, clip angles, seat angles, anchors, dowels, cramps, hangers, and other hardware shapes for securing precast structural concrete units to supporting and adjacent construction.

D. Cast-in reglets, slots, holes, and other accessories in precast structural concrete units as indicated on the Contract Drawings.

E. Cast-in openings larger than 10 inches (250 mm) in any dimension. Do not drill or cut openings or prestressing strand without Architect's approval.

F. Reinforcement: Comply with recommendations in PCI MNL 116 for fabricating, placing, and supporting reinforcement.

G. Reinforce precast structural concrete units to resist handling, transportation, and erection stresses and specified in-place loads.

H. Prestress tendons for precast structural concrete units by either pretensioning or post-tensioning methods. Comply with PCI MNL 116.

I. Comply with requirements in PCI MNL 116 and in this Section for measuring, mixing, transporting, and placing concrete. After concrete batching, no additional water may be added.

J. Place concrete in a continuous operation to prevent cold joints or planes of weakness from forming in precast concrete units.

K. Thoroughly consolidate placed concrete by vibration without dislocating or damaging reinforcement and built-in items, and minimize pour lines, honeycombing, or entrapped air voids on surfaces. Use equipment and procedures complying with PCI MNL 116.

L. Comply with PCI MNL 116 procedures for hot- and cold-weather concrete placement.

M. Identify pickup points of precast structural concrete units and orientation in structure with permanent markings, complying with markings indicated on Shop Drawings. Imprint or permanently mark casting date on each precast structural concrete unit on a surface that does not show in finished structure.

N. Cure concrete, according to requirements in PCI MNL 116, by moisture retention without heat or by accelerated heat curing using live steam or radiant heat and moisture. Cure units until compressive strength is high enough to ensure that stripping does not have an effect on performance or appearance of final product. Precast units shall be cured to the required 28 day strength prior to shipment

O. Discard and replace precast structural concrete units that do not comply with requirements, including structural, manufacturing tolerance, and appearance, unless repairs meet requirements in PCI MNL 116 and meet Architect's approval.

2.11 FABRICATION TOLERANCES

A. Fabricate precast structural concrete units to shapes, lines, and dimensions indicated so each finished unit complies with PCI MNL 116 and PCI MNL-135 product dimension tolerances as well as position tolerances for cast-in items.

2.12 COMMERCIAL FINISHES

A. Grade B Finish: Fill air pockets and holes larger than 1/4 inch (6 mm) in diameter with sand-cement paste matching color of adjacent surfaces. Fill air holes greater than 1/8 inch (3 mm) in width that occur more than once per 2 sq. in. (1300 sq. mm). Grind smooth form offsets or fins larger than 1/8 inch (3 mm). Repair surface blemishes due to holes or dents in molds. Discoloration at form joints is permitted.

B. Screed or float finish unformed surfaces. Strike off and consolidate concrete with vibrating screeds to a uniform finish. Hand screed at projections. Normal color variations, minor indentations, minor chips, and spalls are permitted. Major imperfections, honeycombing, or defects are not permitted.

C. Smooth, steel trowel finish unformed surfaces. Consolidate concrete, bring to proper level with straightedge, float, and trowel to a smooth, uniform finish.

D. Apply roughened surface finish according to ACI 318 (ACI 318M) to precast concrete units that receive concrete topping after installation.

2.13 SOURCE QUALITY CONTROL

A. Testing: Test and inspect precast structural concrete according to PCI MNL 116 requirements and ASTM C1610/C1610M, ASTM C1611/C1611M, ASTM C1621/C1621M, and ASTM C1712.

B. Defective Units: Discard and replace precast structural concrete units that do not comply with requirements, including strength, manufacturing tolerances, and color and texture range. Chipped, spalled, or cracked units may be repaired, subject to Architect's approval.

2.14 PRODUCT DELIVERY, STORAGE & HANDLING

A. Delivery and Handling: Carefully transport and handle precast concrete stairs so as to prevent soiling or damage. Store clear of ground in manner to prevent cracking, distortion, warping and to protect from damage and dirt. Soiling or staining of precast units may be cause for rejection of units. Lift and support units only at designated lifting or supporting points as shown on approved shop drawings.

B. Delegated-Design Submittal: For precast concrete stairs indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

C. Examination:

1. Examine supporting structural frame or foundation and conditions for compliance with requirements for installation tolerances, true and level bearing surfaces, and other conditions affecting performance of the Work.

2. Proceed with installation only after unsatisfactory conditions have been corrected.

3. Do not install precast concrete units until supporting, building structural framing has attained minimum allowable design compressive strength or until supporting steel or other structure is complete.

PART 3 - EXECUTION

3.1 ERECTION

A. Work to be performed by a PCI Qualified Erector. Install in accordance with shop drawings and manufacturer’s recommended installation procedures.

B. Handling and Erection: . Pointed up areas shall have minimum variation in texture and color. Temporarily stabilize all precast work until permanent connections and/or adjoining cast-in-place concrete work or masonry has been completed and the framework is stable.

3.2 INSTALLATION

A. Install clips, hangers, bearing pads, and other accessories required for connecting precast structural concrete units to supporting members and backup materials.

B. Erect precast structural concrete level, plumb, and square within specified allowable tolerances. Provide temporary structural framing, shoring, and bracing as required to maintain position, stability, and alignment of units until permanent connections are complete.

1. Maintain horizontal and vertical joint alignment and uniform joint width as erection progresses.
2. Remove projecting lifting devices and use plastic patch caps or sand-cement grout to fill voids within recessed lifting devices flush with surface of adjacent precast surfaces when recess is exposed.
3. For hollow-core slab voids used as electrical raceways or mechanical ducts, align voids between units and tape butt joint at end of slabs.

C. Connect precast structural concrete units in position by bolting, welding, grouting, or as otherwise indicated on Shop Drawings. Remove temporary shims, wedges, and spacers as soon as practical after connecting and grouting are completed.

D. Field cutting of precast units is not permitted without approval of Architect.

E. Fasteners: Do not use drilled or powder-actuated fasteners for attaching accessory items to precast, prestressed concrete units.

F. Welding: Comply with applicable requirements in AWS D1.1/D1.1M and AWS D1.4/D1.4M for welding, welding electrodes, appearance, quality of welds, and methods used in correcting welding work.

G. At bolted connections, use lock washers, tack welding, or other approved means to prevent loosening of nuts after final adjustment.

H. Grouting or Dry-Packing Connections and Joints: Grout connections and joints and open spaces at keyways, connections, and joints where required or indicated on Shop Drawings. Retain flowable grout in place until hard enough to support itself. Alternatively, pack spaces with stiff dry-pack grout material, tamping until voids are completely filled.

3.3 ERECTION TOLERANCES

A. Erect precast structural concrete units level, plumb, square, and in alignment without exceeding the noncumulative erection tolerances of PCI MNL 135.

B. Minimize variations between adjacent slab members by jacking, loading, or other method recommended by fabricator and approved by Architect.

3.4 FIELD QUALITY CONTROL

A. Special Inspections: **Owner will engage** a qualified special inspector to perform the following special inspections:

1. Erection of precast structural concrete members.

B. Testing Agency: **Owner will engage** a qualified testing agency to perform tests and inspections.

C. Visually inspect field welds and test according to ASTM E165 or to ASTM E709 and ASTM E1444. High-strength bolted connections are subject to inspections.

D. Testing agency will report test results promptly and in writing to Contractor and Architect.

E. Repair or remove and replace work where tests and inspections indicate that it does not comply with specified requirements.

F. Additional testing and inspecting, at Contractor's expense, to be performed to determine compliance of replaced or additional work with specified requirements.

G. Prepare test and inspection reports.

3.5 REPAIRS

A. Repair precast structural concrete units if permitted by Architect.

1. Repairs may be permitted if structural adequacy, serviceability, durability, and appearance of units have not been impaired.

B. Mix patching materials and repair units so cured patches blend with color, texture, and uniformity of adjacent exposed surfaces and show no apparent line of demarcation between original and repaired work, when viewed in typical daylight illumination from a distance of 20 feet (6 m).

C. Prepare and repair damaged galvanized coatings with galvanizing repair paint according to ASTM A780/A780M.

D. Wire brush, clean, and paint damaged prime-painted components with same type of shop primer.

E. Remove and replace damaged precast structural concrete units that cannot be repaired or when repairs do not comply with requirements as determined by Architect.

3.6 CLEANING

A. Clean mortar, plaster, fireproofing, weld slag, and other deleterious material from concrete surfaces and adjacent materials immediately.

B. Clean exposed surfaces of precast concrete units after erection and completion of joint treatment to remove weld marks, other markings, dirt, and stains.

1. Perform cleaning procedures, if necessary, according to precast concrete fabricator's written recommendations. Protect other work from staining or damage due to cleaning operations.
2. Do not use cleaning materials or processes that could change the appearance of exposed concrete finishes or damage adjacent materials.

END OF SECTION 034100

SECTION 23 00 00
MECHANICAL SPECIFICATIONS

PART 1 – GENERAL

1.1 INTENT

A. The intent of this section is to cover Basic Mechanical Requirements specifically applicable to Division 23 sections.

1.2 SCOPE OF WORK

A. Provide all materials, labor, equipment and services necessary for the demolition of all systems as indicated on the drawings and in the specifications.

1.3 GENERAL REQUIREMENTS

A. Visit the building site prior to bidding, examine all existing conditions, and verify all dimensions. No extras will be awarded after the contract is signed if conflicts or obstructions between new work and existing construction are not reported.

B. Work installed by this Contractor which interferes with or affects the existing structures shall be changed as directed and all costs incident to such changes shall be paid by this Contractor.

C. Any existing condition uncovered during the construction process which, by generally accepted construction practices, should be remedied, should be brought to the attention of the architect immediately and in writing.

D. Specific locations, mounting heights and overall dimensions of devices and fixtures are to be obtained from the architectural details when available and from site data.

E. All work of this contract shall be done neatly and proficiently and only by workers skilled in their particular craft.

F. Except where modified by specific notation to the contrary, it shall be understood that the indication and/or description of any item in the drawings, specifications, or both carries with it the instruction to furnish and install the item, regardless of whether or not this instruction is explicitly stated as part of the indication or description.

G. All work shall be done during normal working hours.

1.4 CONTRACT DRAWINGS

A. The contract drawings for the work are diagrammatic, intended to convey the scope of work and indicate the general arrangement and approximate location of equipment, piping, conduits. The contractor shall be responsible for checking and verifying all conditions and dimensions. Do not scale drawings.

B. Any questions or conflict between drawings and specifications, shall be referred to the Engineer.

C. The Engineer reserves the right to require any or all Contractors to make minor changes in arrangements at no additional cost to the Owner.

1.5 CODES, STANDARDS AND TESTS

A. All systems and components shall be installed in accordance with all state, county and local codes and regulations.

1.6 PERMITS

A. The Contractor is responsible for applying for all required permits and paying for all permit, inspection, licensing, and service fees to authorities having jurisdiction over the work. The Contractor is responsible for arranging for all inspection visits.

1.7 RECORD DRAWINGS

A. Contractor shall keep at least one set of colored corrected shop and design drawings at the site. Drawings shall be current, denoting approved modifications and installed departure.

B. All utilities which are installed below grade or concealed within walls shall be dimensionally located on the record drawings.

C. Upon completion of project, provide a red-lined, straight-edged set of record drawings showing all deviations as to location of equipment, piping changes and schematic changes.

1.8 CUTTING AND PATCHING

A. This Contractor is responsible for any cutting, patching, painting, supports, and roofing as required to complete work indicated on drawings. Restoration shall be handled in a manner acceptable to the engineer/architect. All floor or fire wall penetrations are to be firestopped. Use Dow Corning 3-6548 silicone RTV foam or approved equal.

B. Repair adjacent construction and finishes in ceilings, walls, floors or partitions that have been damaged during demolition or created during extension of work. Repair all penetrations in fire rated ceilings, walls, floors or partitions to the original fire ratings using approved fire stop materials.

1.9 PREPARATION

A. Coordinate the demolition of equipment with the schedules of other trades to prevent unnecessary delays in the total project.

1.10 CLEANING, DEBRIS REMOVAL

A. This Contractor shall remove from the premises all accumulation of dirt, debris, waste materials and rubbish caused by his employees or work, at least once a week, except that combustible materials shall be removed daily.

B. Clean equipment to remove foreign objects and markings. Touch up paint as required. The Contractor is responsible for any damages caused by work of his trade.

1.11 DEMOLITION

A. Maintain service to other parts of the building during demolition.

B. Coordinate all demolition work with the new work of all other trades.

C. Patch all holes in floors and ceiling resulting from the demolition which will not be used for the new work with the material to match the existing finish and fire rating.

D. Turn over to the Owner all removed equipment that the Owner wishes to keep. Properly dispose of all remaining equipment according to all regulatory agency requirements.

E. Remove all abandoned ductwork, piping and conduit associated with this project. Remove all ductwork and piping systems back to the mains and cap. Do not leave dead legs in piping systems.

F. Remove all supports and specialties associated with systems removed under demolition.

G. The electrical Contractor shall disconnect and remove all existing light fixtures, receptacles, and other electrical equipment, in areas of construction unless otherwise noted on drawings. All equipment and fixtures not reused shall be disposed of by electrical Contractor as directed by Owner or his representative.

H. All changes or code corrections that are required to existing electrical work not noted on the contract documents, must be submitted to the electrical engineer for approval, prior to commencing work.

1.12 PROTECTION OF BUILDING COMPONENTS

A. Provide protection from damage of any kind to the existing facility, including the roof, paved surfaces, and landscaping, during all phases of this project.

1.13 CONTRACTOR USE OF PREMISES

A. Limit use of premises to allow Owner and tenant occupancy, work by others and Owner, and comfort conditions to be maintained in the occupied spaces during normal business hours.

1.14 PROJECT CLOSEOUT

A. Contractor shall self-perform a full punchlist and submit to engineer prior to engineer's punchlist denoted all items incomplete or unfinished.

B. Furnish an electronic copy in PDF format of installation and maintenance manuals, warranties, and other submittal data indicated for inclusion. Label sections with bookmarks for each division or major piece of equipment. Include wiring diagrams, parts listings, and other manufacturer's information.

C. Submit a certificate of final inspection and approval. Submit release of liens for all subContractors and suppliers. Submit record drawings

D. Final payment will not be approved until all closeout items are received.

PART 2 - PRODUCTS

2.1 Not used.

PART 3 - EXECUTION

3.1 SCHEDULING OF WORK

A. The work shall be mutually scheduled by the Contractor and the Owner to accommodate the Owner's occupancy and to expedite the completion of the construction.

B. Coordinate the demolition with all conditions and the work of other Contractors.

END OF SECTION

SHEET #	SHEET NAME	DATE
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AD-211.4	SECTOR 4 – DEMOLITION SECTION	04/17/26
AD-106.9	SECTOR 9 – LEVEL 200 & 300 DEMOLITION FLOOR PLAN	04/17/26
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E-106	ELECTRICAL ELEVATIONS	04/17/26

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	4/28/26	STRUCT. & DEMO. ADDENDUM 1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

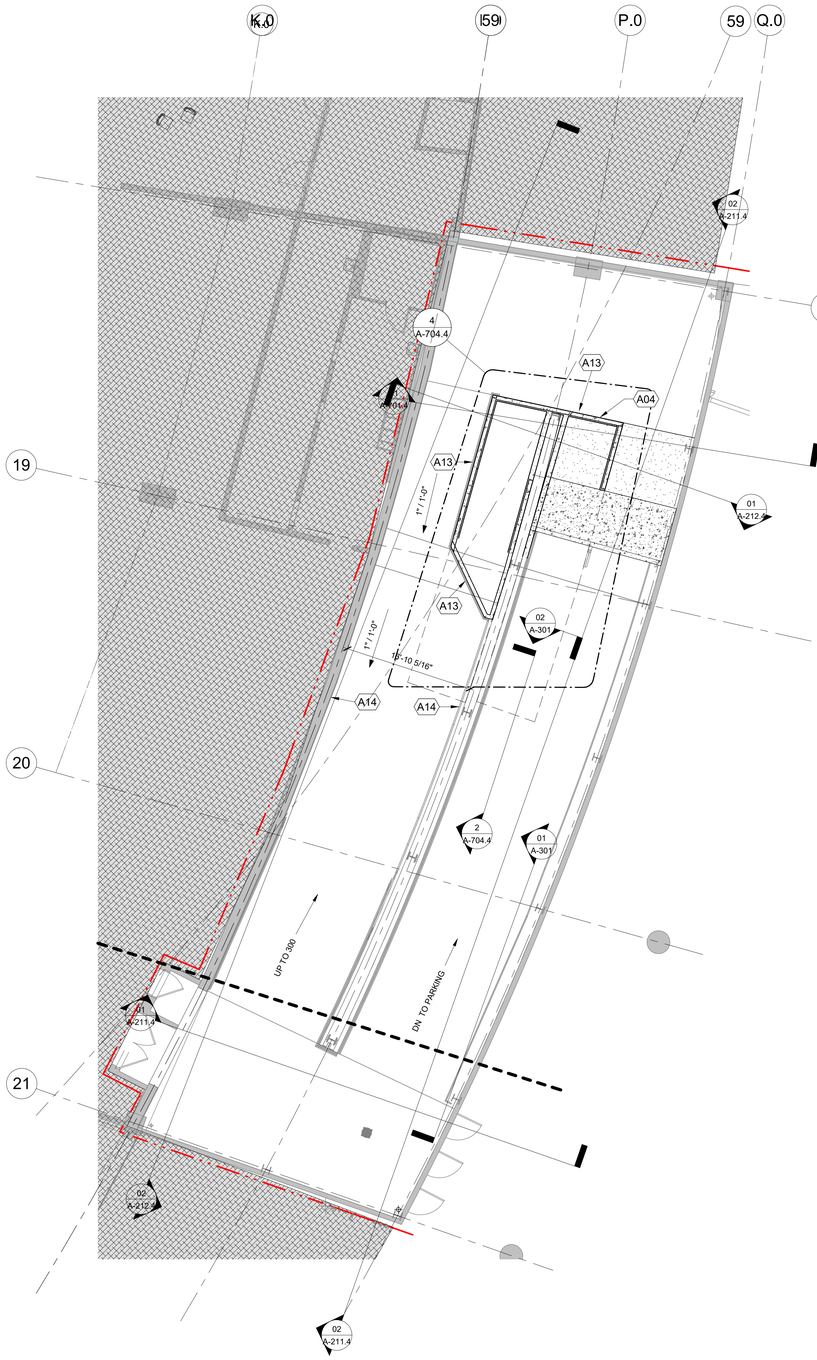
main 513.621.6211
kzf.com

DESIGNED	COMM. NO.
CARLETON	8445.01
DRAWN	DATE
CARLETON	04/17/26
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SHEET INDEX

DRAWING NUMBER ISSUE

G-001 2



01 A-102.4 **SECTOR 4 - LEVEL 200 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

02 A-102.4 **SECTOR 4 - LEVEL 300 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
C. ALL DIMENSIONS ARE FROM FACE TO FACE OF FINISH CONSTRUCTION UNLESS INDICATED OTHERWISE.
D. USE ONLY WRITTEN DIMENSIONS - DO NOT SCALE DRAWINGS.
E. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE SITE PRIOR TO COMMENCING WORK. ALL INQUIRIES AND DISCREPANCIES SHALL BE DIRECTED TO THE ARCHITECT.
F. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.
G. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED.
H. ALL NEW STANDARD DOORS IN METAL STUD PARTITIONS TO BE LOCATED 4" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
I. ALL NEW STANDARD DOORS IN CMU PARTITIONS TO BE LOCATED 8" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
J. PROVIDE BULLNOSE MASONRY UNITS AT ALL EXPOSED OUTSIDE CORNER LOCATIONS UNLESS SCHEDULED TO RECEIVE TILE, CORNER GUARD, OR INDICATED OTHERWISE
K. HANDRAILS ARE REQUIRED ON ALL GUARDRAILS AT STAIRS AND RAMPS. ALL HANDRAILS TO MEET ANSI 117.1. HANDRAIL TYPES ARE NOTED ON FLOOR PLAN SHEETS A-102.4 - A109.9.
L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

DRAWING NOTES

A02	ALIGN 8" CMU WALL WITH FACE OF ESCALATOR ABOVE
A04	ALIGN CONCRETE WALL WITH RAMP AND LANDING ABOVE
A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A10	GUARDRAIL A.3 BETWEEN COLUMNS
A11	GUARDRAIL D, HANDRAIL ONLY W/STRAIGHT BALUSTERS
A13	HANDRAIL ATTACHED TO WALL
A14	EXISTING RAILING
A15	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT LANDINGS WITH HANDRAIL
A22	8" CMU WALL. STACKED BOND. SEE STRUCTURAL DRAWINGS FOR WALL ATTACHMENT AND REINFORCING
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.

DOOR AND FRAME SCHEDULE SECTOR 4

	DOOR								FRAME			DETAILS					
MARK	# OF LEAFS	WIDTH	HEIGHT	THK	TYPE	MATL	FINISH	GLASS	TYPE	MATL	FINISH	HEAD	JAMB	RATING	HDW SET	REMARKS	MARK
2.04.01	1	3' - 0"	7' - 0"	0' - 2"	F	HM				HM							2.04.01
3.04.02	2	4' - 0"	7' - 10"	0' - 2"	F												3.04.02
3.04.03	2	4' - 0"	8' - 4"	0' - 2"	F												3.04.03

DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM
AN	CLEAR ANODIZED
FP	FACTORY PAINTED FINISH
HM	HOLLOW METAL
PT	PAINT
ST	STAIN
STL	STEEL
WD	WOOD

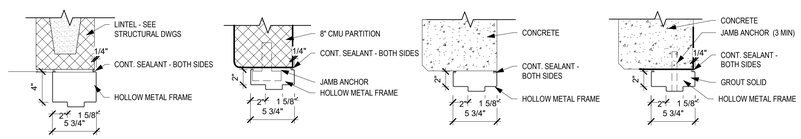
HARDWARE SETS

H1 MORTISE LOCK & 8204 (STOREROOM FUNCTION)
F LEVER – LN ROSE
SARGENT 351 WITH HOLD OPEN CLOSER

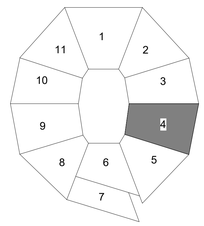
H2 SARGENT 80 SERIES/RIM EXIT DEVICE (CLUB SIDE)
NO EXTERIOR HARDWARE (RAMP SIDE)
DOOR KEYLOCK CORE SARGENT L SERIES SIGNATURE
HOLD OPEN BOTH DOORS
LCM2034 CONCEALED CLOSER

REMARKS

R1 HOLLOW METAL DOOR AND FRAME
R2



3 A-102.4 **HEAD AND JAMB DETAILS**
1 1/2" = 1'-0"



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	4/28/26	STRUCT. & DEMO. ADDENDUM 1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

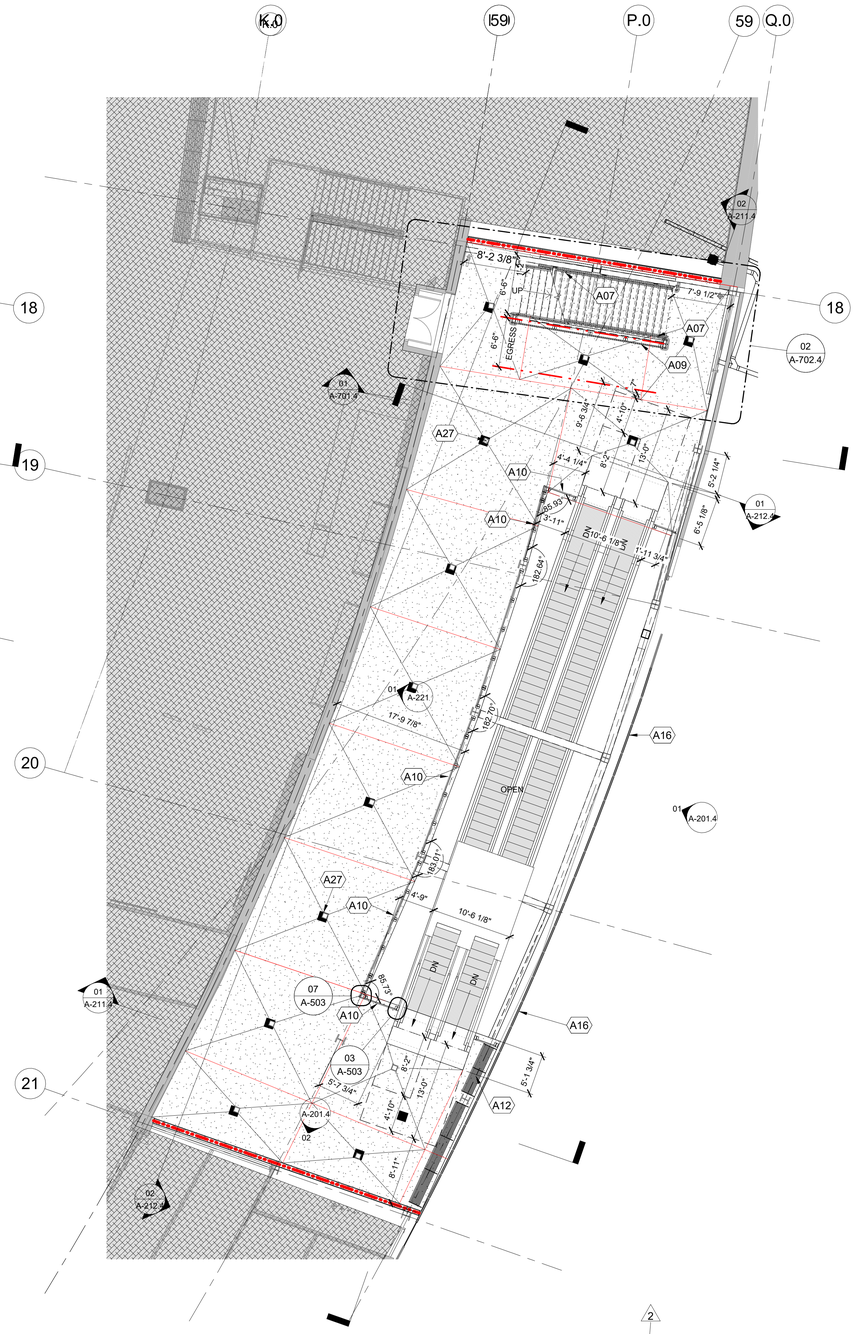
main 513.621.6211
kzf.com

DESIGNED	COMM. NO.
CARLETON	8445.01
DRAWN	DATE
ALMOND	4/17/26
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SECTOR 4 - LEVEL 200 & 300 PLANS

DRAWING NUMBER ISSUE
A-102.4 2

01 A-103.4 **SECTION 4 - LEVEL 400 NEW WORK FLOOR PLAN**
1/8" = 1'-0"



02 A-103.4 **SECTION 4 - LEVEL 500 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
C. ALL DIMENSIONS ARE FROM FACE TO FACE OF FINISH CONSTRUCTION UNLESS INDICATED OTHERWISE.
D. USE ONLY WRITTEN DIMENSIONS - DO NOT SCALE DRAWINGS.
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F. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.
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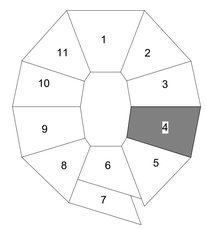
L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

DRAWING NOTES

A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A10	GUARDRAIL A.3 BETWEEN COLUMNS
A12	GUARDRAIL C, HORIZONTAL GUARD W/ANGLED BALUSTERS
A13	HANDRAIL ATTACHED TO WALL
A16	PERFORATED METAL SCREEN TO REMAIN
A24	ACM PANELS ON 6" STUD ABOVE EXISTING STOREFRONT.
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.



N

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NO.	DATE	DESCRIPTION
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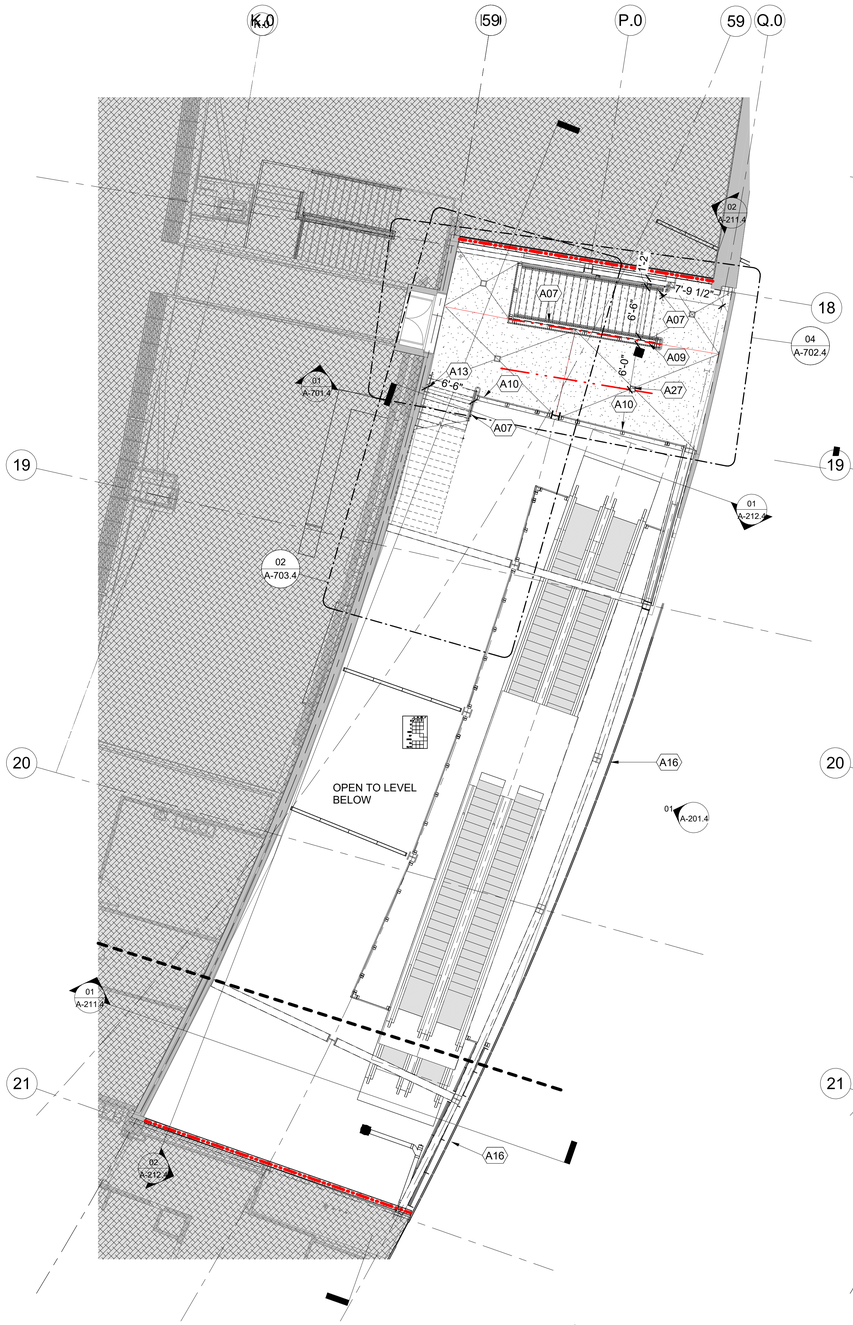
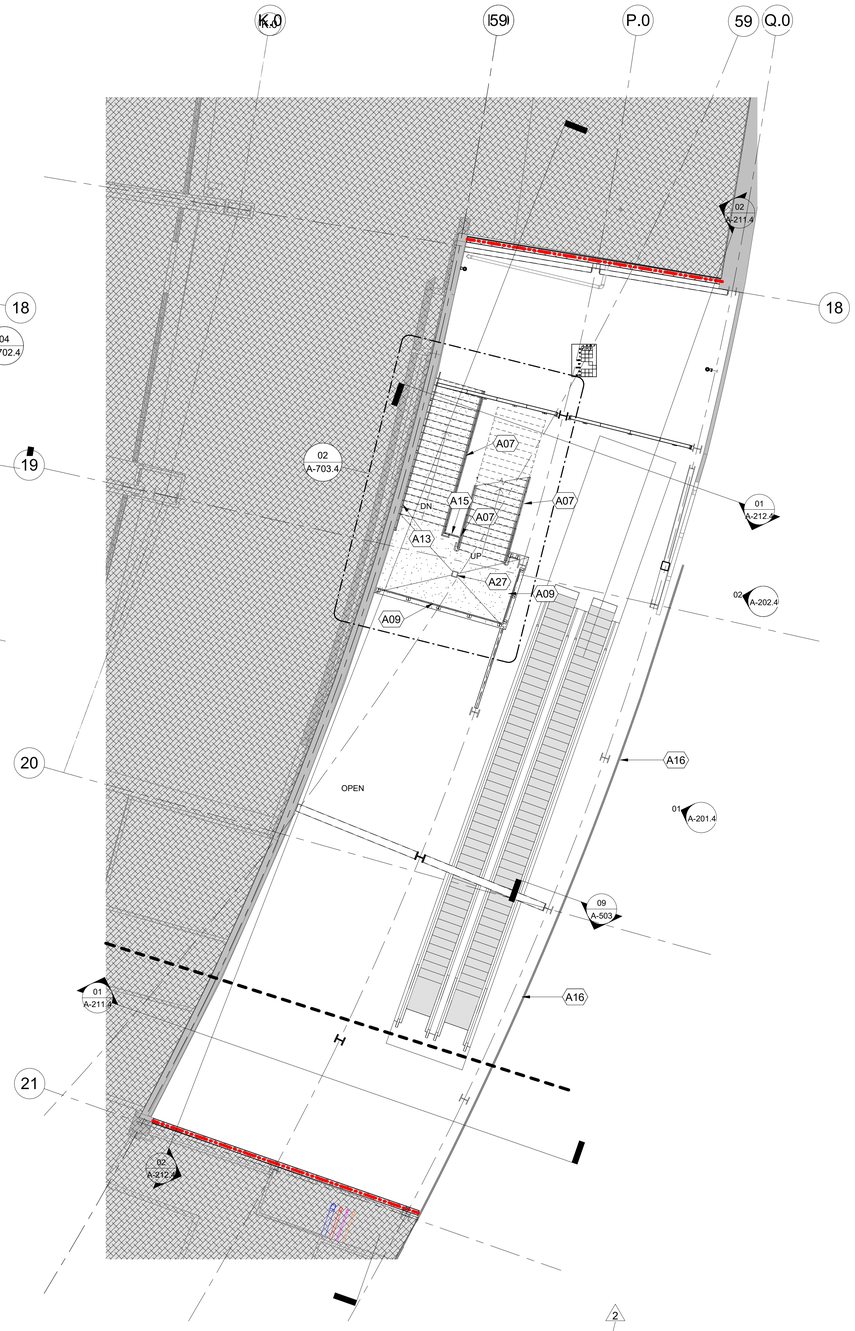
ALMOND	04/17/26
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SECTOR 4 - LEVEL 400 & 500 PLANS

DRAWING NUMBER ISSUE
A-103.4 2



02 **SECTOR 4 - LEVEL 600 NEW WORK FLOOR PLAN**
A-104.4 1/8" = 1'-0"



01 **SECTOR 4 - LEVEL 650 NEW WORK FLOOR PLAN**
A-104.4 1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
C. ALL DIMENSIONS ARE FROM FACE TO FACE OF FINISH CONSTRUCTION UNLESS INDICATED OTHERWISE.
D. USE ONLY WRITTEN DIMENSIONS - DO NOT SCALE DRAWINGS.
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F. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.
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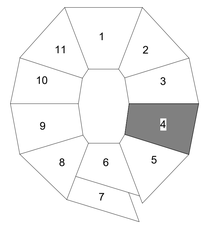
L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

DRAWING NOTES

A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A10	GUARDRAIL A.3 BETWEEN COLUMNS
A13	HANDRAIL ATTACHED TO WALL
A15	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT LANDINGS WITH HANDRAIL
A16	PERFORATED METAL SCREEN TO REMAIN
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.



N

0 4' 8' 16'
SCALE: 1/8"=1'-0"

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DESIGNED	COMM. NO.
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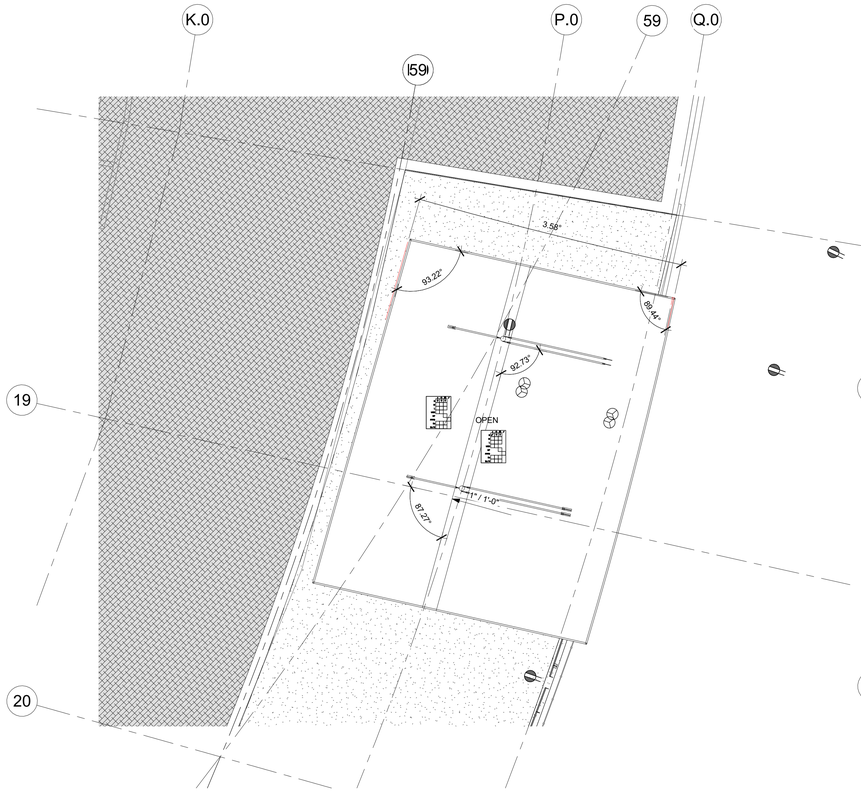
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SECTOR 4 - LEVEL 600 AND 650 PLANS

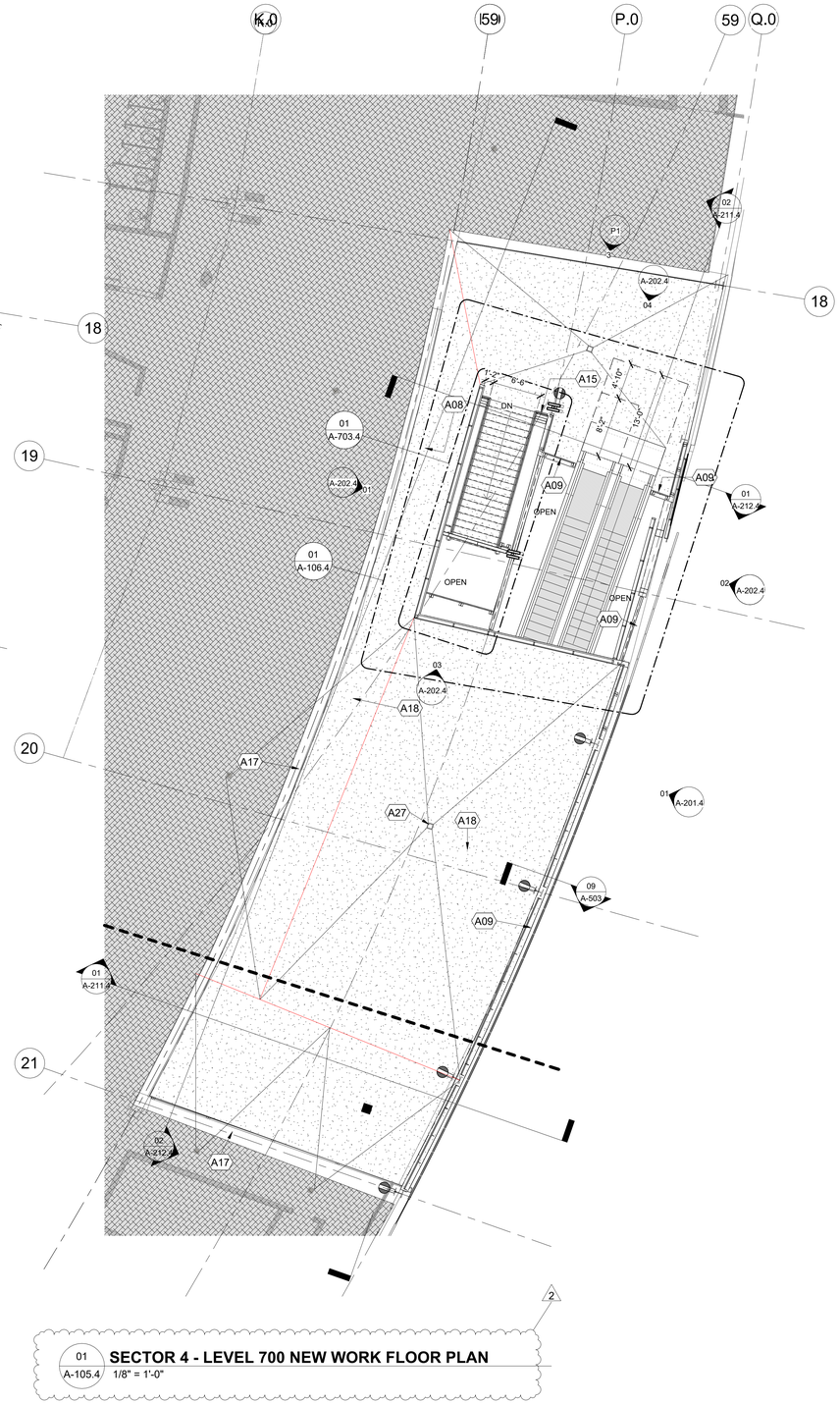
DRAWING NUMBER ISSUE
A-104.4 2



2 A-105.4 **SECTOR 4 - LEVEL 700 NEW WORK ROOF PLAN**
1/8" = 1'-0"

GENERAL NOTES - ROOF PLAN

A. ALL DISSIMILAR METALS TO BE SEPARATED BY PAINT COAT TO AVOID ELECTROLYTIC REACTION
B. EQUIPMENT & PENETRATIONS AS SHOWN ARE APPROXIMATE LOCATIONS AND SIZES - FINAL LOCATIONS ARE SUBJECT TO COORDINATION - CONDUIT AND SMALLER PENETRATIONS NOT SHOWN
C. ALL PENETRATIONS IN THE ROOF DECK ARE TO BE REINFORCED WITH STEEL ANGLES. SEE ALSO STRUCTURAL DRAWINGS FOR TYPICAL REINFORCEMENT REQUIREMENTS
D. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS, PER FLUID-APPLIED WATER PROOFING MEMBRANE SYSTEM MANUFACTURER'S INSTRUCTIONS & DETAILS
E. HEM ALL METAL EDGES
F. SEAL ALL OPENINGS ABOVE ROOF SUCH AS DOOR, LOUVERS, ETC. WITH SEALANT & BACKER ROD - PREPARE JOINT AS PER MANUFACTURER'S RECOMMENDATIONS
G. ALL FASTENERS TO BE 316 STAINLESS STEEL UNLESS OTHERWISE REQUIRED BY ROOF MANUFACTURER
H. TAPER TOPPING SLAB A MIN. OF 1/4-INCH PER FOOT - TAPER CRICKETS AND SADDLES A MIN OF 1/2-INCH PER FOOT
I. PROVIDE CRICKETS AT ALL PENETRATIONS / CURBS
J. ALL ROOF EDGE METAL SHALL BE ES-1 TESTED
K. COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT TO MAINTAIN POSITIVE DRAINAGE TO ROOF DRAINS - KEEP EQUIPMENT OFF OF CRICKET VALLEYS, ETC.



01 A-105.4 **SECTOR 4 - LEVEL 700 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
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F. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.
G. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED.
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L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

DRAWING NOTES

A08	GUARDRAIL A.2, VERTICAL GUARD W/STRAIGHT BALUSTERS
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A15	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT LANDINGS WITH HANDRAIL
A17	EXISTING CONCRETE DECK
A18	NEW CONCRETE DECK
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.

NO.	DATE	DESCRIPTION
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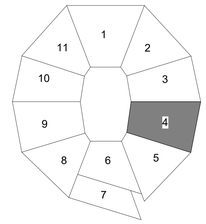


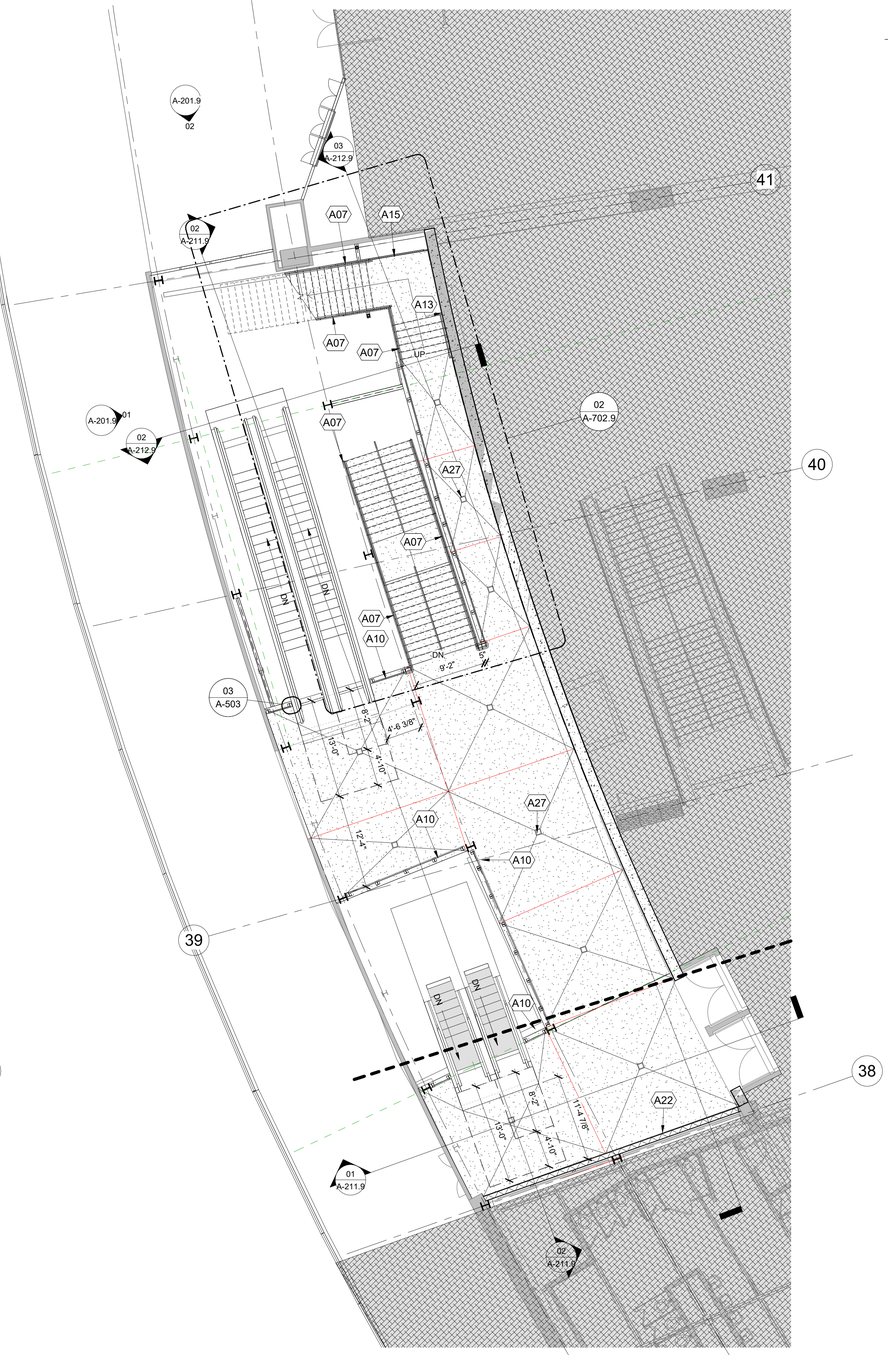
0 4' 8' 16'
SCALE: 1/8"=1'-0"

DESIGNED	COMM. NO.
CARLETON	8445.01
DRAWN	DATE
ALMOND	4/17/26
CHECKED	PROJ. MGR.
Checker	SHULTZ

SECTOR 4 - LEVEL 700 PLAN & ROOF PLAN

DRAWING NUMBER ISSUE
A-105.4 2

01 A-106.9 **SECTOR 9 - LEVEL 200 NEW WORK FLOOR PLAN**
1/8" = 1'-0"



02 A-106.9 **SECTOR 9 - LEVEL 300 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
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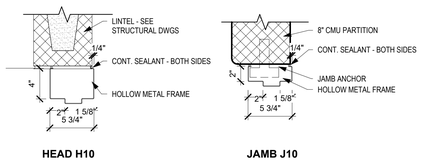
DRAWING NOTES

A01	ESCALATOR PASSENGER CIRCULATION SPACE
A02	ALIGN 8" CMU WALL WITH FACE OF ESCALATOR ABOVE
A04	ALIGN CONCRETE WALL WITH RAMP AND LANDING ABOVE
A05	RELOCATED GATE
A06	RELOCATED MESH FENCE
A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A10	GUARDRAIL A.3 BETWEEN COLUMNS
A13	HANDRAIL ATTACHED TO WALL
A15	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT LANDINGS WITH HANDRAIL
A22	8" CMU WALL. STACKED BOND. SEE STRUCTURAL DRAWINGS FOR WALL ATTACHMENT AND REINFORCING
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.

2



HEAD H10 **JAMB J10**

3 A-106.9 **HEAD AND JAMB DETAILS**
1 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE SECTOR 9

	DOOR								FRAME			DETAILS					
MARK	# OF LEAFS	WIDTH	HEIGHT	THK	TYPE	MATL	FINISH	GLASS	TYPE	MATL	FINISH	HEAD	JAMB	RATING	HDW SET	REMARKS	MARK
2.09.01	1	3' - 0"	7' - 0"	0' - 2"	F	HM				HM							2.09.01
2.09.08																	2.09.08

REMARKS

R1 HOLLOW METAL DOOR AND FRAME
R2

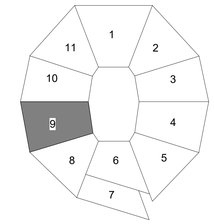
HARDWARE SETS

H1 MORTISE LOCK & 8204 (STOREROOM FUNCTION)
F LEVER – LN ROSE
SARGENT 351 WITH HOLD OPEN CLOSER

H2

DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM
AN	CLEAR ANODIZED
FP	FACTORY PAINTED FINISH
HM	HOLLOW METAL
PT	PAINT
ST	STAIN
STL	STEEL
WD	WOOD



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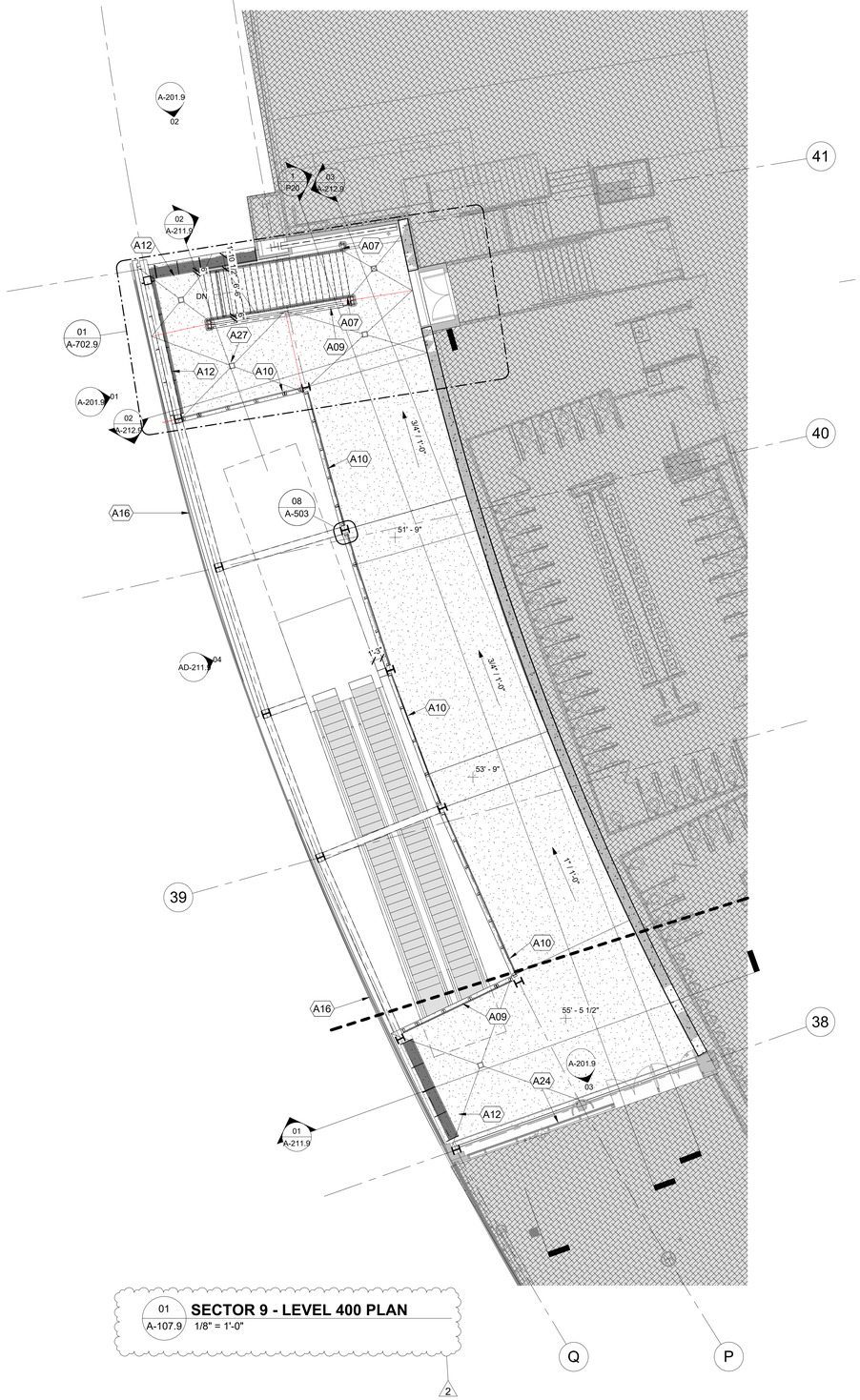
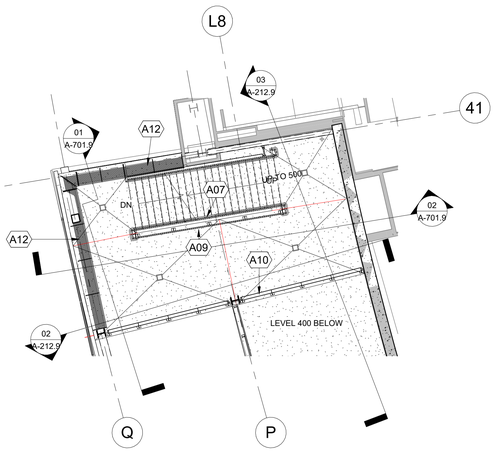
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SECTOR 9 - LEVEL 200 AND 300 PLANS

DRAWING NUMBER ISSUE
A-106.9 2



3 A-107.9 **SECTOR 9 -LEVEL 450 PLAN**
1/8" = 1'-0"



01 A-107.9 **SECTOR 9 - LEVEL 400 PLAN**
1/8" = 1'-0"

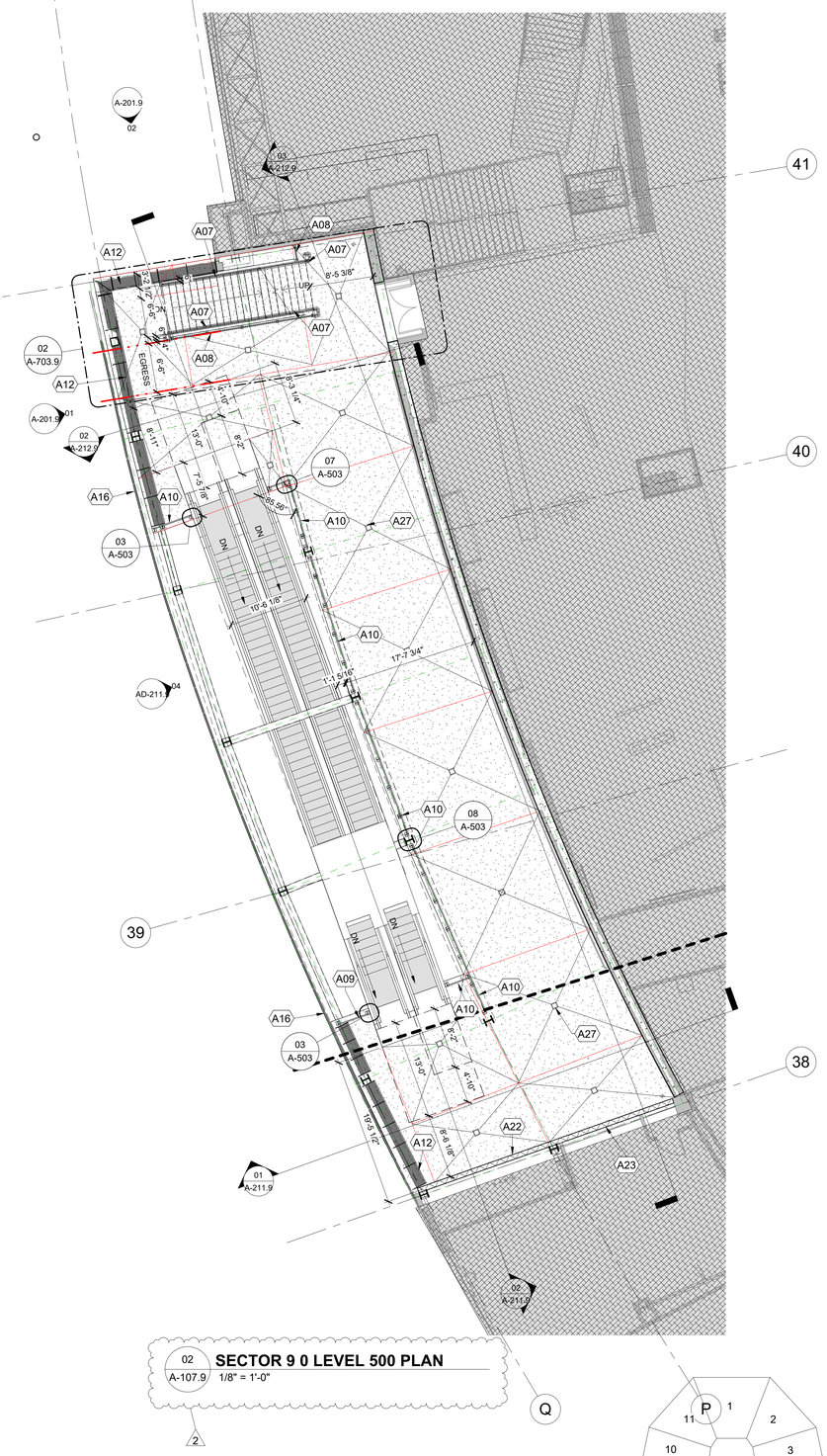
GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
C. ALL DIMENSIONS ARE FROM FACE TO FACE OF FINISH CONSTRUCTION UNLESS INDICATED OTHERWISE.
D. USE ONLY WRITTEN DIMENSIONS - DO NOT SCALE DRAWINGS.
E. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE SITE PRIOR TO COMMENCING WORK. ALL INQUIRIES AND DISCREPANCIES SHALL BE DIRECTED TO THE ARCHITECT.
F. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.
G. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED.
H. ALL NEW STANDARD DOORS IN METAL STUD PARTITIONS TO BE LOCATED 4" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
I. ALL NEW STANDARD DOORS IN CMU PARTITIONS TO BE LOCATED 8" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
J. PROVIDE BULLNOSE MASONRY UNITS AT ALL EXPOSED OUTSIDE CORNER LOCATIONS UNLESS SCHEDULED TO RECEIVE TILE, CORNER GUARD, OR INDICATED OTHERWISE
K. HANDRAILS ARE REQUIRED ON ALL GUARDRAILS AT STAIRS AND RAMPS. ALL HANDRAILS TO MEET ANSI 117.1. HANDRAIL TYPES ARE NOTED ON FLOOR PLAN SHEETS A-102.4 - A109.9.
L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

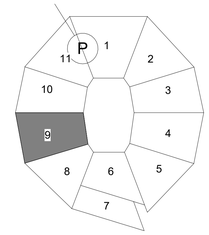
DRAWING NOTES

A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A08	GUARDRAIL A.2, VERTICAL GUARD W/STRAIGHT BALUSTERS
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A10	GUARDRAIL A.3 BETWEEN COLUMNS
A12	GUARDRAIL C, HORIZONTAL GUARD W/ANGLED BALUSTERS
A16	PERFORATED METAL SCREEN TO REMAIN
A22	8" CMU WALL. STACKED BOND. SEE STRUCTURAL DRAWINGS FOR WALL ATTACHMENT AND REINFORCING
A23	GYP. BD. ON 7/8" FURRING.
A24	ACM PANELS ON 6" STUD ABOVE EXISTING STOREFRONT.
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.

2



02 A-107.9 **SECTOR 9 0 LEVEL 500 PLAN**
1/8" = 1'-0"



N

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	4/28/26	STRUCT. & DEMO. ADDENDUM 1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

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Cincinnati, OH 45202

main 513.621.6211
kzf.com

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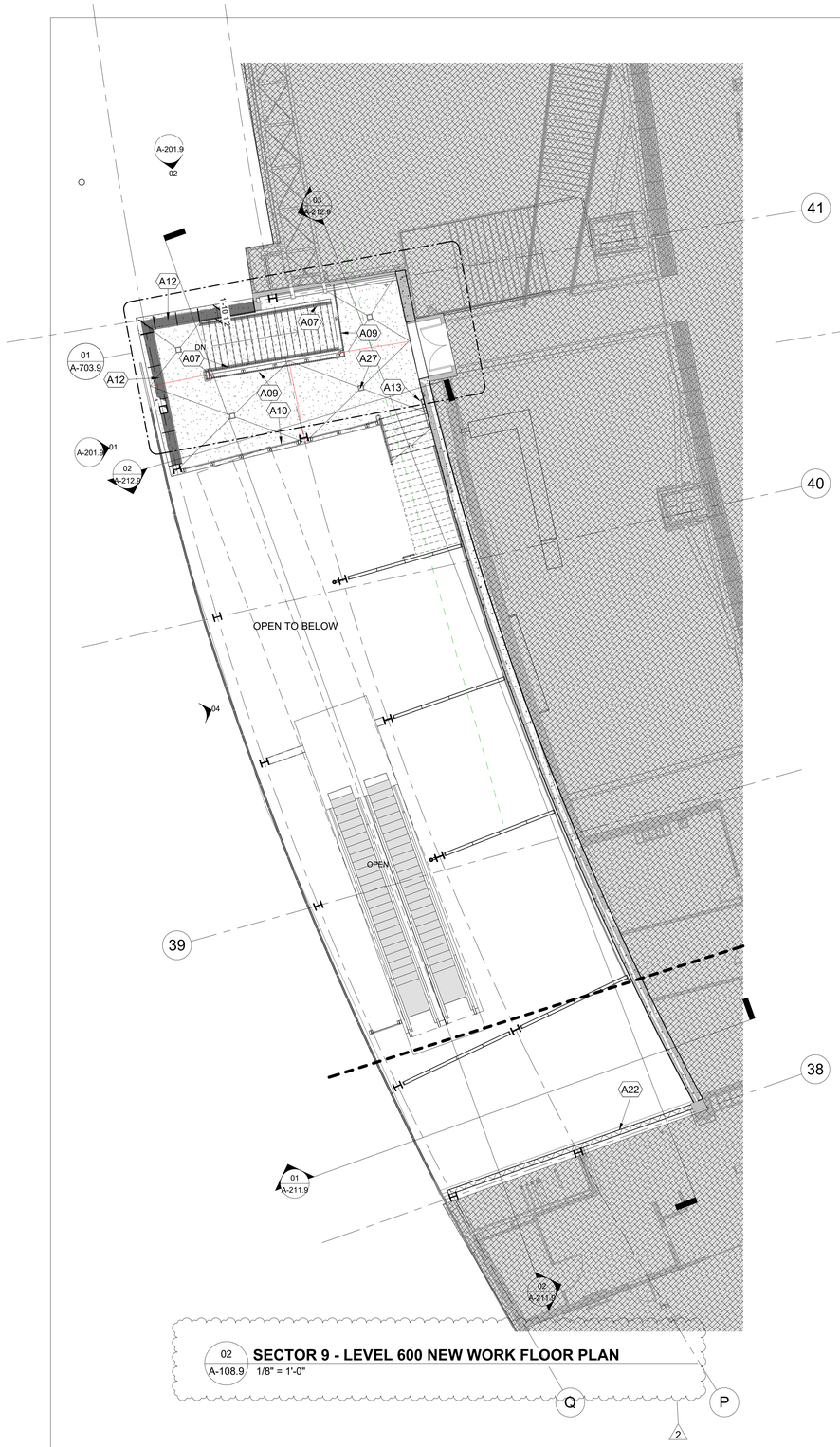
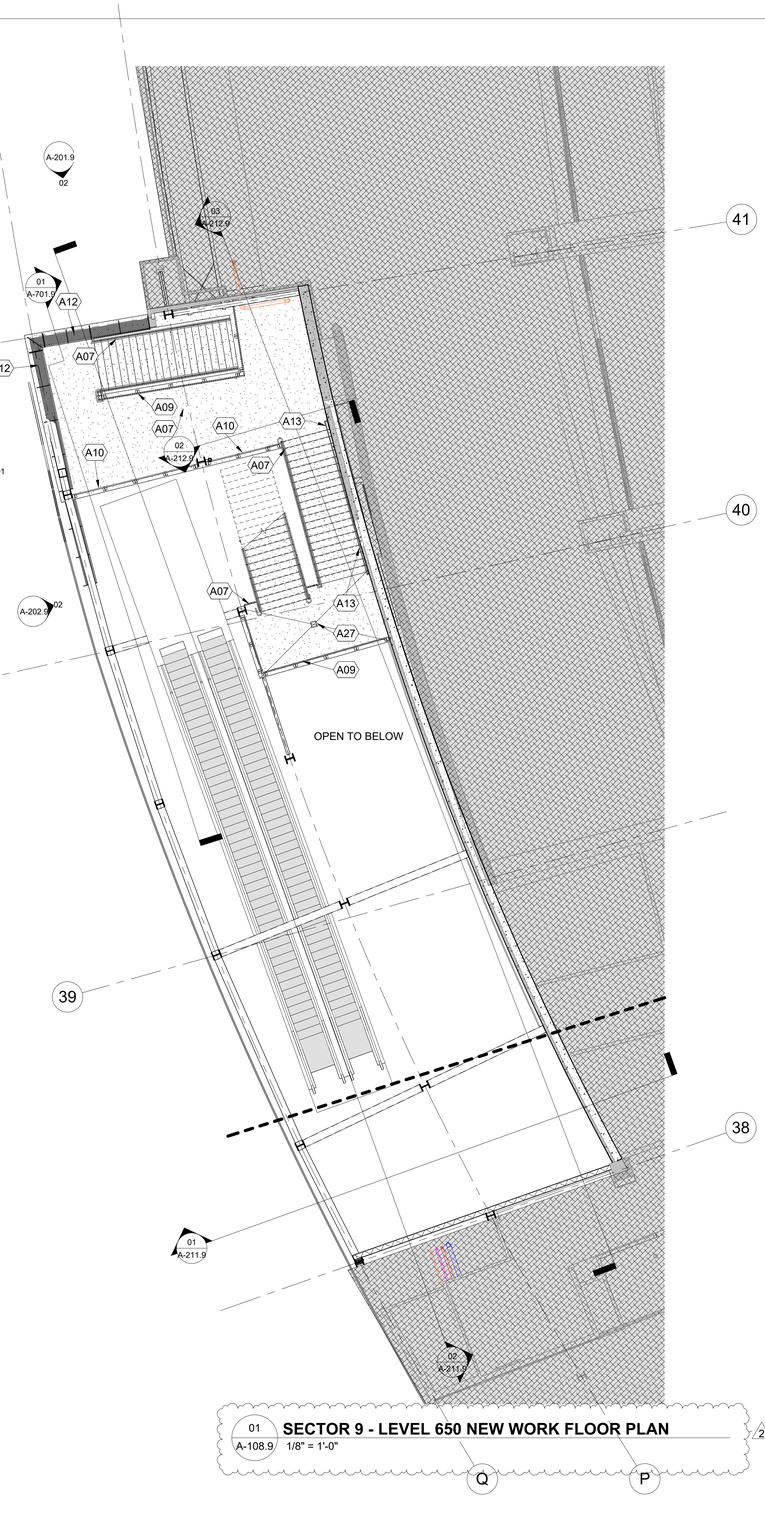
CARLETON	04/17/26
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SECTOR 9 - LEVEL 400, 450 AND 500 PLANS

DRAWING NUMBER ISSUE
A-107.9 2



02 A-108.9 **SECTOR 9 - LEVEL 600 NEW WORK FLOOR PLAN**
1/8" = 1'-0"



01 A-108.9 **SECTOR 9 - LEVEL 650 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

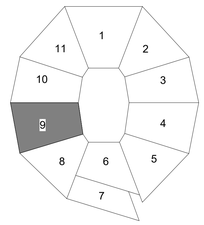
GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
C. ALL DIMENSIONS ARE FROM FACE TO FACE OF FINISH CONSTRUCTION UNLESS INDICATED OTHERWISE.
D. USE ONLY WRITTEN DIMENSIONS - DO NOT SCALE DRAWINGS.
E. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE SITE PRIOR TO COMMENCING WORK. ALL INQUIRIES AND DISCREPANCIES SHALL BE DIRECTED TO THE ARCHITECT.
F. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE BY THE CONTRACTOR UNLESS OTHERWISE INDICATED.
G. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED.
H. ALL NEW STANDARD DOORS IN METAL STUD PARTITIONS TO BE LOCATED 4" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
I. ALL NEW STANDARD DOORS IN CMU PARTITIONS TO BE LOCATED 8" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
J. PROVIDE BULLNOSE MASONRY UNITS AT ALL EXPOSED OUTSIDE CORNER LOCATIONS UNLESS SCHEDULED TO RECEIVE TILE, CORNER GUARD, OR INDICATED OTHERWISE
K. HANDRAILS ARE REQUIRED ON ALL GUARDRAILS AT STAIRS AND RAMPS. ALL HANDRAILS TO MEET ANSI 117.1. HANDRAIL TYPES ARE NOTED ON FLOOR PLAN SHEETS A-102.4 - A109.9.
L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

DRAWING NOTES

A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A10	GUARDRAIL A.3 BETWEEN COLUMNS
A12	GUARDRAIL C, HORIZONTAL GUARD W/ANGLED BALUSTERS
A13	HANDRAIL ATTACHED TO WALL
A22	8" CMU WALL. STACKED BOND. SEE STRUCTURAL DRAWINGS FOR WALL ATTACHMENT AND REINFORCING
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.

2



0 4' 8' 16'
SCALE: 1/8"=1'-0"

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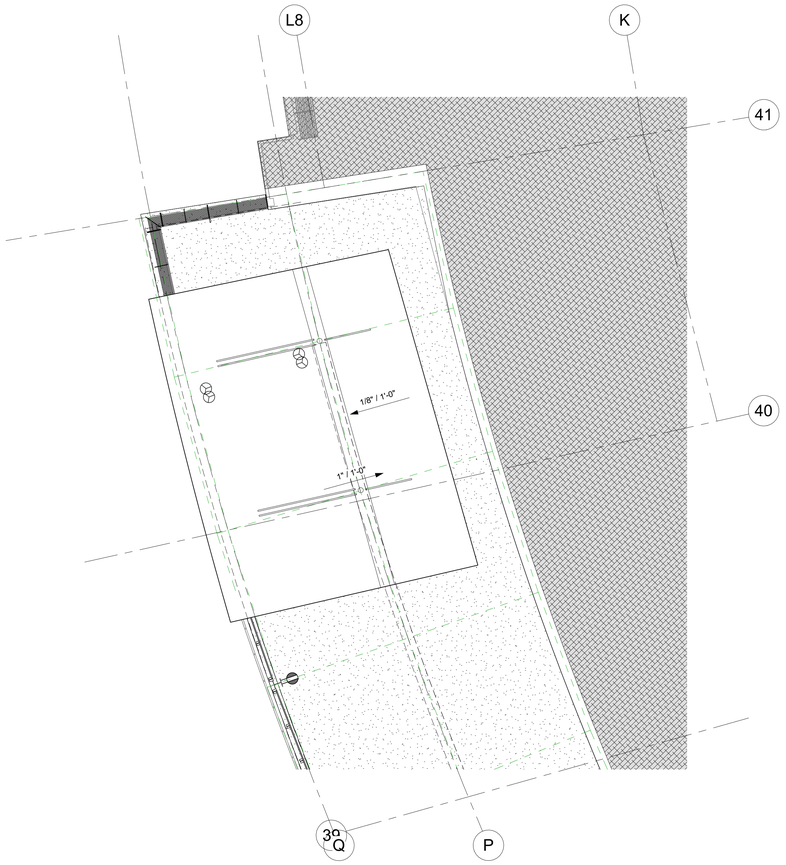
DRAWN	DATE
CARLETON	04/17/26
CHECKED	PROJ. MGR.
THAMANN	SHULTZ

SECTOR 9 - LEVEL 600 & 650 PLANS

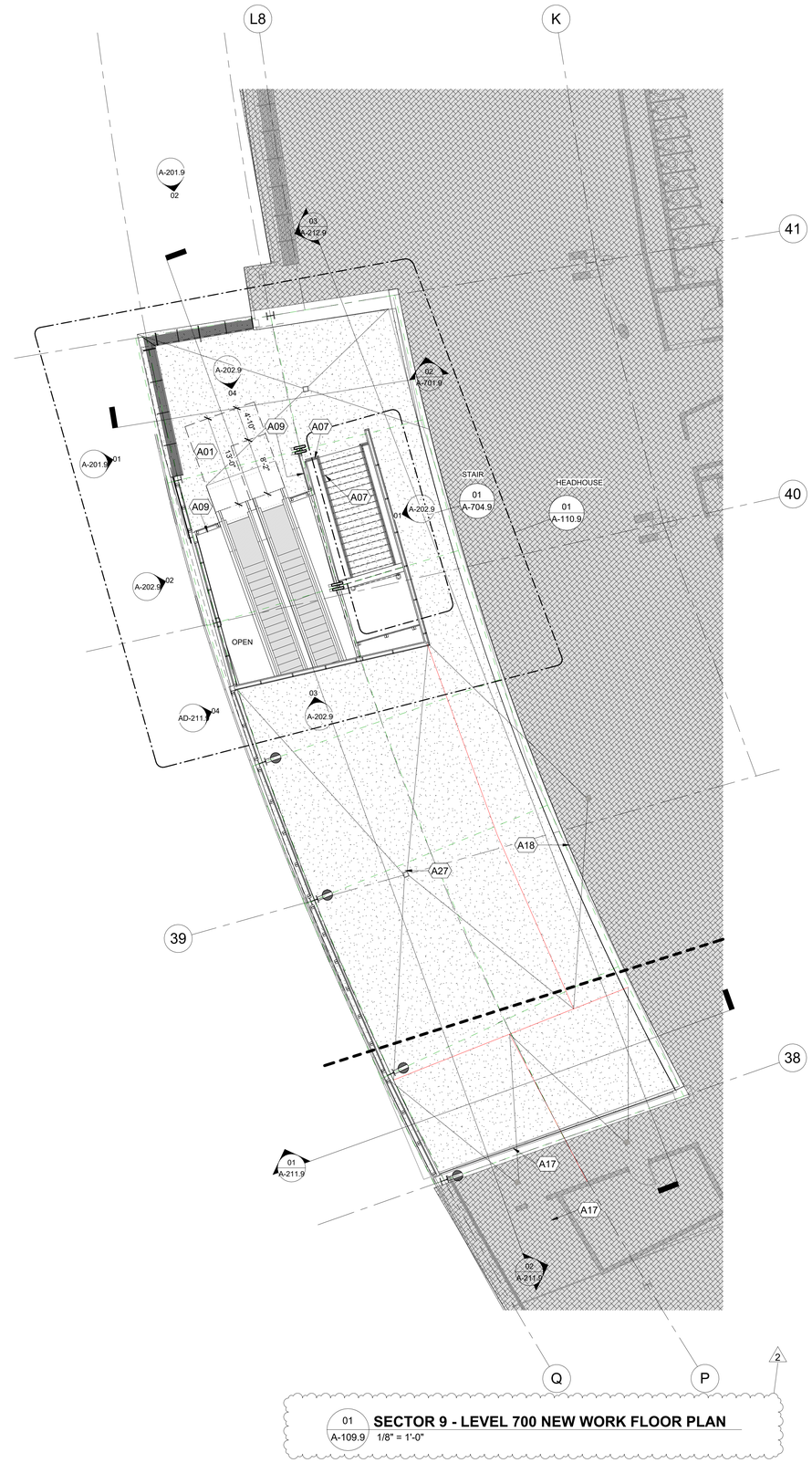
DRAWING NUMBER ISSUE
A-108.9 2



02 A-109.9 **SECTOR 9 - LEVEL 700 ROOF PLAN**
1/8" = 1'-0"

GENERAL NOTES - ROOF PLAN

A. ALL DISSIMILAR METALS TO BE SEPARATED BY PAINT COAT TO AVOID ELECTROLYTIC REACTION
B. EQUIPMENT & PENETRATIONS AS SHOWN ARE APPROXIMATE LOCATIONS AND SIZES - FINAL LOCATIONS ARE SUBJECT TO COORDINATION - CONDUIT AND SMALLER PENETRATIONS NOT SHOWN
C. ALL PENETRATIONS IN THE ROOF DECK ARE TO BE REINFORCED WITH STEEL ANGLES. SEE ALSO STRUCTURAL DRAWINGS FOR TYPICAL REINFORCEMENT REQUIREMENTS
D. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS, PER FLUID-APPLIED WATER PROOFING MEMBRANE SYSTEM MANUFACTURER'S INSTRUCTIONS & DETAILS
E. HEM ALL METAL EDGES
F. SEAL ALL OPENINGS ABOVE ROOF SUCH AS DOOR, LOUVERS, ETC. WITH SEALANT & BACKER ROD - PREPARE JOINT AS PER MANUFACTURER'S RECOMMENDATIONS
G. ALL FASTENERS TO BE 316 STAINLESS STEEL UNLESS OTHERWISE REQUIRED BY ROOF MANUFACTURER
H. TAPER TOPPING SLAB A MIN. OF 1/4-INCH PER FOOT - TAPER CRICKETS AND SADDLES A MIN OF 1/2-INCH PER FOOT
I. PROVIDE CRICKETS AT ALL PENETRATIONS / CURBS
J. ALL ROOF EDGE METAL SHALL BE ES-1 TESTED
K. COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT TO MAINTAIN POSITIVE DRAINAGE TO ROOF DRAINS - KEEP EQUIPMENT OFF OF CRICKET VALLEYS, ETC.



01 A-109.9 **SECTOR 9 - LEVEL 700 NEW WORK FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-502 FOR RAILING TYPES.
B. ROOM NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.
C. ALL DIMENSIONS ARE FROM FACE TO FACE OF FINISH CONSTRUCTION UNLESS INDICATED OTHERWISE.
D. USE ONLY WRITTEN DIMENSIONS - DO NOT SCALE DRAWINGS.
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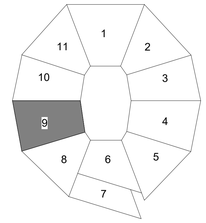
G. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED.
H. ALL NEW STANDARD DOORS IN METAL STUD PARTITIONS TO BE LOCATED 4" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
I. ALL NEW STANDARD DOORS IN CMU PARTITIONS TO BE LOCATED 8" FROM FACE OF PERPENDICULAR WALL ON THE HINGE SIDE UNLESS INDICATED OTHERWISE.
J. PROVIDE BULLNOSE MASONRY UNITS AT ALL EXPOSED OUTSIDE CORNER LOCATIONS UNLESS SCHEDULED TO RECEIVE TILE, CORNER GUARD, OR INDICATED OTHERWISE
K. HANDRAILS ARE REQUIRED ON ALL GUARDRAILS AT STAIRS AND RAMPS. ALL HANDRAILS TO MEET ANSI 117.1. HANDRAIL TYPES ARE NOTED ON FLOOR PLAN SHEETS A-102.4 - A109.9.
L. EACH TREAD TO RECEIVE CAST METAL STAIR TREAD NOSING 6' X 3" WITH ANTI- SLIP CROSS HATCH FINISH

DRAWING NOTES

A01	ESCALATOR PASSENGER CIRCULATION SPACE
A07	GUARDRAIL A.1, VERTICAL GUARD FACE MOUNTED AT STAIRS AND RAMPS WITH HANDRAIL
A09	GUARDRAIL A.3, VERTICAL GUARD W/ANGLED BALUSTERS
A17	EXISTING CONCRETE DECK
A18	NEW CONCRETE DECK
A27	1/8" PER FOOT MIN. SLOPE TO FLOOR DRAIN. TYP.



N

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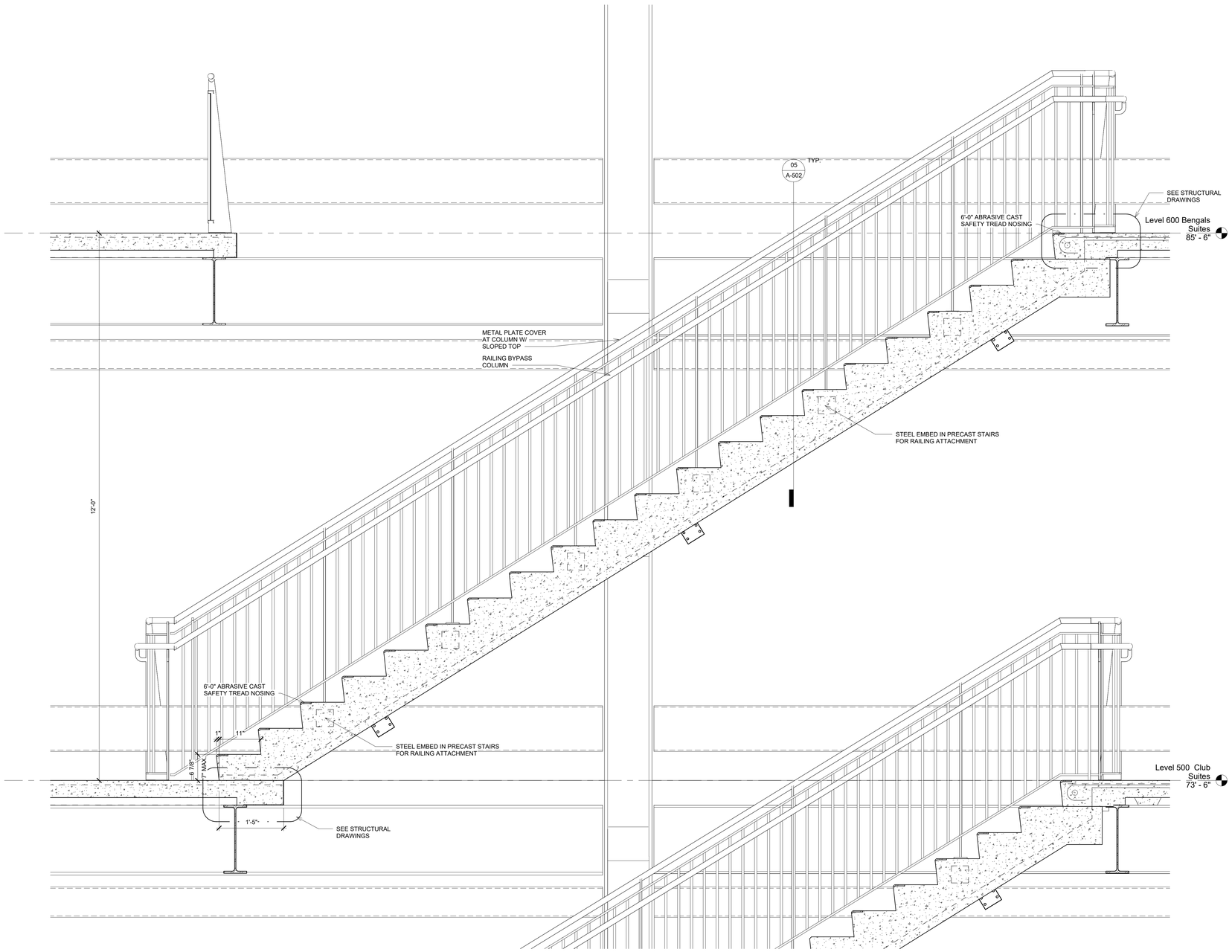
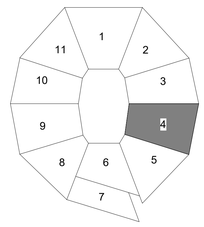
THAMANN	SHULTZ

SECTOR 9 - LEVEL 700 PLAN & ROOF PLAN

DRAWING NUMBER ISSUE
A-109.9 2



01 A-705.4 **SEC. 4 - PRECAST STAIR SECTION TYPICAL**
1" = 1'-0"



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Checker	SHULTZ

TYPICAL STAIR SECTIONS & DETAILS

DRAWING NUMBER	ISSUE
A-705.4	2

GENERAL STRUCTURAL NOTES:

A. CODES AND SPECIFICATIONS

1. 2024 OHIO BUILDING CODE.
2. ASCE/SEI 7-16 WITH SUPPLEMENT 1, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. ACI 301-20, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
4. ANSI/AISC 303-22, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
5. ANSI/AWS D1.1, STRUCTURAL WELDING CODE — STEEL.
6. ADDITIONAL TECHNICAL SPECIFICATIONS IN THE PROJECT MANUAL.

B. DESIGN LOADS

1. FLOOR LOAD:
   TYPICAL FLOOR LIVE LOAD: 100 PSF - (NR)
   CEILING AND MECHANICAL HANGING ALLOWANCE
   ABOVE TYPICAL FLOOR AREAS: 10 PSF
   PARTITION ALLOWANCE (LL < 80 PSF): 15 PSF
   STAIR LIVE LOAD: 100 PSF

   (NR) INDICATES LIVE LOADS ARE NOT REDUCED. OTHERWISE DESIGN LIVE LOADS FOR SLABS, BEAMS, COLUMNS, AND FOUNDATIONS ARE REDUCED PER BUILDING CODE SECTION 1607.

   CONCENTRATED LIVE LOADS DISTRIBUTED OVER 2.5 FT X 2.5 FT IN LIEU OF UNIFORM LIVE LOAD, UNLESS NOTED OTHERWISE, SEE CODE SECTION 1607.

2. WIND LOAD:
   DESIGN WIND SPEED (3-SECOND GUST): Vult = 113 MPH; [Vasd = 50 MPH]
   RISK CATEGORY: III
   WIND EXPOSURE: C, Kz = 1.17, Kzt = 1.0, Kd = .85
   INTERNAL PRESSURE COEFFICIENT: ENCLOSED BUILDING, GCpi = +/- 0.18

3. EARTHQUAKE DESIGN DATA:
   RISK CATEGORY: III
   SEISMIC IMPORTANCE FACTOR: Ie = 1.25
   MAPPED SPECTRAL RESPONSE ACCELERATION: Ss = 0.146, S1 = 0.077
   SITE CLASS: D
   DESIGN SPECTRAL RESPONSE COEFFICIENT: Sds = 0.156, Sd1 = 0.124
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PER ASCE 7
   SEISMIC DESIGN CATEGORY: B

4. THE PROJECT IS AN INTERIOR RENOVATION WITHIN THE EXISTING BUILDING. NEW STRUCTURAL WORK IS LIMITED TO NEW FRAMING FOR FLOOR INFILLS AND NEW STAIRS AND ESCALATORS AND DOES NOT CHANGE THE EXISTING STRUCTURAL SYSTEMS FOR GRAVITY OR LATERAL LOADS. NEW WORK AND ALTERED ELEMENTS MEET NEW CODE REQUIREMENTS. THE EXISTING STRUCTURE THAT IS UNALTERED IS TO REMAIN AND IS IN ACCORDANCE WITH THE INTERNATIONAL EXISTING BUILDING CODE PER OBC 102.7.

C. CONCRETE

1. CONCRETE STRENGTHS:
   a. TYPICAL CONCRETE UNLESS NOTED OTHERWISE: 5000 PSI AE.
2. PROVIDE 3/4" BEVELS AT CORNERS OF ALL EXPOSED COLUMNS, EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
3. WHERE BEAMS OF VARIOUS DEPTHS FRAME INTO A COLUMN, PROVIDE A CONSTRUCTION JOINT AT THE BOTTOM OF THE LOWEST BEAM.
4. MAXIMUM LENGTH OF SLAB POUR BETWEEN CONSTRUCTION JOINTS SHALL NOT EXCEED 120 FEET. MAXIMUM AREA OF SLAB POUR SHALL NOT EXCEED 10,000 SF.
5. JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
6. PLACE NO PERMANENT LOAD, SUCH AS MASONRY WALLS, ON SUPPORTED SLABS UNTIL CONCRETE HAS REACHED SPECIFIED STRENGTH AND ALL SHORING HAS BEEN REMOVED.
7. PLACE NO OPENINGS, SLEEVES, INSERTS, ETC. IN CONCRETE WORK UNLESS CRITERIA INDICATED ON THE STRUCTURAL DRAWINGS IS MET, OR SPECIFIC SIZE AND LOCATION IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
8. CONCRETE CONSTRUCTION TOLERANCES ARE AS SHOWN IN THE PROJECT SPECIFICATIONS.
9. SLABS ON METAL DECKS ARE TO BE CAST TO A CONSTANT THICKNESS OVER BEAMS, WITH MINIMUM THICKNESS AS SHOWN ON THE DRAWINGS. ALLOW FOR MINIMUM EXTRA 1/2 " OF CONCRETE TO ACCOUNT FOR METAL DECK DEFLECTION. PURLINS AND GIRDERS ARE UNSHORED DURING SLAB PLACEMENT. AFTER PLACEMENT, FINISH SLABS TO REQUIRED TOLERANCES PER THE PROJECT SPECIFICATIONS.

D. REINFORCING STEEL

1. ALL REINFORCING BARS: 60 KSI YIELD.
2. REINFORCE ALL SLABS AS FOLLOWS, U.N.O:
   a. SLABS ON METAL DECK: 6x6-W2.9xW2.9 (4'2#) WWF, EPOXY COATED.
   b. TOPPING SLAB: 6x6-W2.9xW2.9 (4'2#) WWF, EPOXY COATED.
3. FURNISH WWF IN FLAT SHEETS. LAP SHEETS 2 WIRES (1 FULL WIRE SPACE) PLUS 2 " AT ALL EDGES. STAGGER ADJACENT SHEETS TO AVOID 4 CORNER LAPS.
4. PROVIDE TENSION SPLICES UNLESS NOTED OTHERWISE.
5. PLACE WITH MINIMUM CLEAR COVER BETWEEN REINFORCING STEEL AND CONCRETE SURFACES AS SHOWN. IF NOT SHOWN, PROVIDE CLEAR COVER PER ACI. ALL REINFORCING SHALL BE PLACED AS SHOWN AND DETAILED, AND WITHIN ACI TOLERANCE.
6. EPOXY COAT ALL REINFORCING U.N.O.
7. PROVIDE MATERIAL AND PLACEMENT OF 1 TONS OF CONTINGENCY REINFORCING STEEL. SIZES OF BARS TO BE MIXED. BARS ARE TO BE CUT, BENT, AND PLACED AS DIRECTED BY THE ENGINEER.

E. MASONRY WALLS (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES.
2. MATERIAL:
   a. 2000 PSI (NET AREA), F'm = 2000 PSI, 2 CELL HOLLOW UNITS.
   b. GROUT: COMPLY WITH ASTM C476, 3000 PSI, 8" TO 11" SLUMP.
   c. MORTAR: TYPE S.
   d. WALL REINFORCING: Fy = 60 KSI.
3. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS BUT NOT LESS THAN THE FOLLOWING MINIMUM REINFORCING:
   e. VERTICAL: 1#4 BAR FULL HEIGHT CENTERED IN GROUTED CMU CORE AT ALL CORNERS, ENDS, BOTH SIDES OF ALL OPENINGS AND CONTROL JOINTS, AND AT A MAXIMUM SPACING OF 10 '-0" O.C.
   f. HORIZONTAL, 9 GAGE, GALVANIZED LADDER TYPE JOINT REINFORCEMENT AT 16" O.C. MAXIMUM AND 2#4 BARS IN BOND BEAMS.
4. VERTICAL BARS TO BE CONTINUOUS THROUGH BOND BEAMS.
5. MINIMUM LAP SPLICES FOR ALL VERTICAL AND HORIZONTAL BARS ARE NOTED IN THE FOLLOWING TABLE. PROVIDE LONGER LAP SPLICES WHERE DETAILED ON THE DRAWINGS.

BAR	LAP	BAR	LAP
#3	27"	#6	54"
#4	36"	#7	63"
#5	45"	#8	72"

F. STRUCTURAL STEEL

1. MATERIAL;
   a. WIDE FLANGE AND CHANNEL SHAPES: ASTM A992 (Fy 50 KSI).
   b. STEEL PIPES: ASTM A53, TYPE E OR S, GRADE B (Fy 35 KSI).
   c. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C (Fy 50 KSI).
   d. OTHER ROLLED SHAPES, ANGLES, PLATES AND BARS: ASTM A572 GRADE 50 (Fy 50 KSI).
   e. HEADED SHEAR STUDS: ASTM A108, COMPLY WITH AWS D1.1, TYPE B.
   f. BOLTS: ASTM F3125, GRADE F1852, TYPE 1, 120 KSI, 3/4" MIN. DIA., U.N.O.
   g. ANCHOR RODS: ASTM F1554 (Fy 55 KSI), U.N.O.
2. PRETENSION ALL BOLTS. WHERE F1852 ASSEMBLIES CANNOT BE INSTALLED, USE F959 SELF INDICATING, LOAD INDICATOR WASHERS WITH A325 BOLTS AND A563 NUTS, U.N.O.
3. ALL WELDING MATERIALS, WELDING PROCEDURES AND OPERATORS PERFORMING WELDING TO BE QUALIFIED PER AWS D1.1.
4. FABRICATOR TO DESIGN CONNECTIONS NOT DETAILED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISC MANUAL, AND THE STRUCTURAL STEEL FRAMING PLANS, NOTES AND DETAILS OF THESE DRAWINGS. FORCES INDICATED ON THE DRAWINGS ARE FACTORED FOR LRFD DESIGN, U.N.O.
5. CONNECTION CONFIGURATIONS INDICATED ON THE PLANS, NOTES AND DETAILS REPRESENT THE DESIGN INTENT. ITEMS SPECIFICALLY INDICATED, SUCH AS WELDS, STIFFENERS, BRACES, ETC., MUST BE PROVIDED AT MINIMUM AS SHOWN. ADDITIONAL DESIGN AND DETAILING OF CONNECTIONS, INCLUDING CONSIDERATION OF MEMBER THICKNESS, HOLES, CUTS, COPES AND THE EFFECTS OF CONCENTRATED FORCES, SHALL BE PROVIDED BY THE CONTRACTOR.
6. ALL STEEL TO BE FIELD PAINTED U.N.O. REFER TO ARCH.

G. METAL DECK

1. ALL WORK SHALL CONFORM TO STEEL DECK INSTITUTE (SDI) STANDARDS AND THE PROJECT SPECIFICATIONS.
2. DECK MANUFACTURER SHALL BE A CURRENT MEMBER OF SDI.
3. MATERIAL, G-60 MINIMUM GALVANIZED STEEL:
   a. 2" DEEP, 18 GAGE MIN. THICKNESS, COMPOSITE METAL FLOOR DECK.
   b. 1/2" OR 9/16" DEEP, 28 GAGE MIN. THICKNESS, METAL FORM DECK.
   c. 1-1/2" DEEP, 20 GAGE MIN. THICKNESS, WIDE RIB METAL ROOF DECK.
   d. POUR STOPS, CLOSURES AND FILLERS, 18 GAGE MIN. THICKNESS.
   e. FASTENERS: SUBMIT ICC ESR WITH DIAPHRAGM CAPACITY FOR APPROVAL.
4. MINIMUM ATTACHMENT OF FLOOR DECK: FASTEN TO ALL SUPPORTS WITH NOT LESS THAN 5/8" DIA. FUSION WELDS OR APPROVED FASTENERS SPACED 12" O.C. FASTEN SIDE LAPS OF DECK UNITS WITH #10 SCREWS OR BUTTON PUNCH AT 36" O.C. MAX.
5. PROVIDE SIDE CLOSURES AND FILLERS FOR DECK AND DIAPHRAGM CONTINUITY WITH THE STRUCTURE. ATTACH TO DECK AND STRUCTURE AS REQUIRED FOR DIAPHRAGM SHEAR BUT NOT FARTHER THAN 12 " O.C. MAX.
6. INSTALL DECK AND PROVIDE CLOSURES AND FILLERS TO ALLOW SHEAR STUD INSTALLATION WITH 1 " MINIMUM LATERAL CONCRETE COVER TYPICALLY, AND 2 " MINIMUM LATERAL COVER AT DECK MID-HEIGHT IN THE LOAD DIRECTION.
7. PROVIDE POUR STOPS AS REQUIRED TO FORM CONCRETE AT EDGES AND OPENINGS.

H. POST-INSTALLED ANCHORS AND ADHESIVE ANCHORING TO CONCRETE

1. POST-INSTALLED ANCHORS AND ADHESIVE ANCHORING SYSTEMS MUST BE TESTED AND APPROVED USING ICC EVALUATION SERVICE ACCEPTANCE CRITERIA, INCLUDING ICC-ES AC193: "MECHANICAL ANCHORS IN CONCRETE ELEMENTS " OR ICC-ES AC308: "POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS ". CONCRETE SHALL BE CONSIDERED CRACKED. SUBMIT MANUFACTURER 'S DATA AND EVALUATION REPORT (ESR) FOR PROPOSED ANCHORS, ADHESIVES, AND ANCHORING SYSTEMS. INDICATE SPECIFIC PROJECT LOCATIONS AND CONDITIONS WHERE PROPOSED FOR USE.
2. MECHANICAL ANCHORS TO CONCRETE SHALL BE AS SHOWN IN THE STRUCTURAL DETAILS. UNLESS NOTED OTHERWISE, USE ONE OF THE FOLLOWING:
   a. HILTI KWIK BOLT TZ2 EXPANSION ANCHORS.
   b. DEWALT POWER-STUD+ SD2 WEDGE EXPANSION ANCHORS.
   c. SIMPSON STRONG-BOLT 2 WEDGE ANCHORS.
   d. HILTI KWIK-HUS-EZ SCREW ANCHORS.
   e. DEWALT SCREW-BOLT+ SCREW ANCHORS.
   f. SIMPSON TITEN HD SCREW ANCHORS.
3. ADHESIVE ANCHORING OF RODS AND REBAR TO CONCRETE SHALL BE AS SHOWN IN THE STRUCTURAL DETAILS. UNLESS NOTED OTHERWISE, PROVIDE STANDARD HAS-E RODS AND USE ONE OF THE FOLLOWING:
   a. HILTI HIT-HY 200 V3 HYBRID ADHESIVE ANCHORING SYSTEM.
   b. HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM.
   c. DEWALT PURE110+ EPOXY ADHESIVE ANCHORING SYSTEM.
   d. SIMPSON SET-XP EPOXY ANCHORING ADHESIVE.
   e. OTHER PRODUCTS MAY BE REQUIRED FOR TEMPERATURE AND SPECIAL CONDITIONS.
4. ADHESIVE ANCHORING SHALL NOT BE USED IN OVERHEAD OR UPWARD CONDITIONS. FOR HORIZONTAL ADHESIVE ANCHOR APPLICATIONS, USE HYBRID ADHESIVE WITH ESR.
5. POST-INSTALLED ANCHORS SHALL ONLY BE USED AS SHOWN AND APPROVED; THEY SHALL NOT BE USED WHERE CAST-IN-PLACE ANCHORS ARE REQUIRED.
6. ZINC COAT ANCHORS, RODS AND HARDWARE TYPICALLY. AT EXTERIOR USE HOT DIP GALVANIZED OR STAINLESS STEEL, UNLESS NOTED OTHERWISE.
7. EMBEDMENT DEPTH, EDGE DISTANCES, AND SPACING ARE CRUCIAL. LOCATE AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, EMBED REBAR 24 DIAMETERS AND EMBED ANCHORS AT LEAST 8 DIAMETERS, WITH EDGE DISTANCES AT LEAST 8 DIAMETERS, AND SPACING AT LEAST 12 DIAMETERS. USE MANUFACTURER 'S DATA TO CALCULATE REDUCED CAPACITY FOR ACTUAL CONDITIONS AND CONFIRM AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
8. HOLES INTO CONCRETE MUST NOT INTERFERE WITH REINFORCING BARS. THE CONTRACTOR SHALL REVIEW THE STRUCTURAL DRAWINGS AND USE FERRO-SCAN OR OTHER MEANS TO LOCATE REINFORCING BARS IN THE AREA. SPACE HOLES TO FIT AROUND REBAR, SET ANCHORS WITH A TEMPLATE AND FABRICATE FIXTURE TO MATCH.
9. HOLES IN CONCRETE SHALL BE THE PROPER SIZE AND THOROUGHLY CLEANED WITH ALL DUST REMOVED. DRILL HOLES USING A HOLLOW BIT AND FUNCTIONING VACUUM SYSTEM. THEN BRUSH AND BLOW OUT REPEATEDLY WITH CLEAN, OIL FREE AND DRY, HIGH PRESSURE COMPRESSED AIR PER THE MANUFACTURER 'S INSTRUCTIONS.
10. INSTALL INTO DRY CONCRETE IN CLEAN, DUST FREE HOLES USING METHOD AND PROCEDURE THAT MEETS MANUFACTURER 'S RECOMMENDATIONS INCLUDING TEMPERATURE RANGE, HUMIDITY, INSTALLATION TIME AND CURE TIME. FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
11. PROVIDE STANDARD SIZE HOLES IN THE FASTENED STEEL ELEMENT (1/16 " LARGER THAN THE ROD DIAMETER) TO MATCH TEMPLATE OF INSTALLED ANCHORS. DO NOT OVERSIZE HOLES.
12. THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR THEIR PRODUCTS. ADHESIVE ANCHOR INSTALLERS SHALL ALSO BE CERTIFIED BY A RECOGNIZED PROGRAM, SUCH AS BY ACI AND CRSI. SUBMIT DOCUMENTATION OF TRAINING AND CERTIFICATION OF PERSONNEL PRIOR TO PERFORMING SUCH WORK. PROVIDE COPY TO THE OWNER 'S INSPECTION AGENCY.
13. THE CONTRACTOR SHALL INSPECT AND PROOF TEST ANCHORS AS PART OF THE CONTRACTOR 'S QUALITY CONTROL PROGRAM. INSPECT CONTINUOUSLY OR PERIODICALLY ACCORDING TO THE ESR. PROOF TEST 5% OF ALL ANCHORS AND REBAR IN EACH CONDITION, DISTRIBUTED THROUGHOUT THE PROJECT, AND TEST ALL ANCHORS IN EACH STEEL FRAMING CONNECTION. AMOUNT OF TESTING SHALL BE INCREASED IF FAILURES OCCUR. OWNER 'S INSPECTION AGENCY WILL OBSERVE INSTALLATION FOR CONFORMANCE WITH MANUFACTURER 'S RECOMMENDATIONS AND WILL WITNESS CONTRACTOR 'S PROOF TESTING.

I. FIREPROOFING

1. REFER TO THE PROJECT SPECIFICATION AND ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.

J. COORDINATION AND CONSTRUCTION

1. THE CONTRACTOR SHALL COMPLETE ALL WORK REQUIRED AND NECESSARY FOR THE PROJECT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, AND REFERENCED STANDARDS. THE SPECIFICATIONS AND DRAWINGS COMPLEMENT EACH OTHER, THE CONTRACTOR SHALL THOROUGHLY REVIEW BOTH BEFORE PROCEEDING WITH ANY WORK.
2. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO APPLY TO SIMILAR SITUATIONS ELSEWHERE.
3. STRUCTURAL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
4. ALL FRAMING MEMBERS PROVIDED FOR MECHANICAL TRADES, EQUIPMENT SUPPORT, ELEVATOR SUPPORT BEAMS, LINTELS, ETC., ARE FOR BIDDING PURPOSES ONLY. SUBMIT MANUFACTURER'S DATA FOR THE ACTUAL PROPOSED EQUIPMENT TO STRUCTURAL ENGINEER FOR VERIFICATION OR REDESIGN OF SUPPORTS PRIOR TO PREPARING SHOP DRAWINGS.
5. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS, DIMENSIONS, EMBEDDED ITEMS, SLEEVES, FLOOR PITCHES, DEPRESSIONS AND FILLS. OPENING SIZES AND LOCATIONS FOR PIPES, DUCTS, ETC., WHEN SHOWN, ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH MECHANICAL, ELECTRICAL, PLUMBING AND OTHER COORDINATION DRAWINGS AS APPLICABLE.
6. SHOP DRAWINGS AND INSTALLATION DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW. SUBMITTALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE TRADE CONTRACTOR AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
   a. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT FABRICATION AND SHOW ON SHOP DRAWINGS.
   b. VERIFY AND SHOW EXACT SIZE AND LOCATION OF ALL FLOOR, WALL OPENINGS, SLAB EDGES, EMBEDDED ANCHORS AND OTHER ITEMS.
   c. SHOW AND LOCATE ALL MECHANICAL SLEEVES, EMBEDS, DRAINS, ETC. ON COORDINATION DRAWINGS. ITEMS NOT SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER ARE NOT PERMITTED IN OR THROUGH THE STRUCTURE.
   d. SUBMIT COMPLETE SHOP DRAWINGS WITH MANUFACTURERS ' DATA, ETC. SHOW ALL CONNECTIONS AND DETAILS NECESSARY TO FULLY DESCRIBE AND PROPERLY INSTALL THE WORK.
   e. STRUCTURAL ENGINEER 'S REVIEW SHALL BE FOR GENERAL ARRANGEMENT AND CONFORMANCE WITH THE STRUCTURAL INTENT ONLY.
7. THE SPECIFICATIONS AND STRUCTURAL DRAWINGS TYPICALLY REFER TO THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT PRESCRIBE THE METHOD OF CONSTRUCTION.
8. BRACE ENTIRE STRUCTURE AND PORTIONS THEREOF AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
9. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
10. THE ARCHITECT 'S AND ENGINEER 'S OBSERVATION AND REVIEW OF CONTRACTORS ' PERFORMANCE DOES NOT INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

K. MECHANICAL AND OTHER ITEMS EMBEDDED IN OR SUPPORTED FROM STRUCTURE

1. PLACEMENT OF CONDUITS IN CONCRETE SHALL ADHERE TO THE FOLLOWING.
   a. OUTSIDE DIAMETER OF CONDUITS SHALL BE 1" OR LESS WHERE EMBEDDED IN SLABS AND JOISTS, AND 1-1/2" OR LESS WHERE EMBEDDED IN BEAMS, WALLS, OR COLUMNS.
   b. BUNCHING OF CONDUITS IS NOT PERMITTED. CONDUITS SHALL BE SPACED 3 DIAMETERS OR GREATER ON CENTER, AND 6" MIN. AWAY FROM COMPOSITE SHEAR STUD CONNECTORS.
   c. LONGITUDINAL PLACEMENT OF CONDUITS IN CONCRETE JOISTS AND BEAMS SHALL BE LIMITED TO ONE CONDUIT PER JOIST AND THREE CONDUITS PER BEAM. SPACE 6" MIN. AWAY FROM LONGITUDINAL REINFORCING.
   d. MINIMUM CONCRETE COVER ON CONDUITS SHALL BE 1-1/2"
   e. ALUMINUM CONDUITS, PIPES, OR SLEEVES ARE NOT PERMITTED.
2. ALL TRADE CONTRACTORS (MECHANICAL, STAIR, WALL, ENVELOPE, SPECIALTY, ETC.) ARE TO DESIGN THEIR SYSTEMS, INCLUDING ATTACHMENTS TO THE BUILDING 'S STRUCTURE WITHIN THE FOLLOWING LIMITATIONS.
   a. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS AND SHALL NOT OVERLOAD OR DAMAGE THE STRUCTURE.
   b. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
   c. LOADS SUPPORTED BY WIDE FLANGE BEAMS ARE TO BE APPLIED IN A MANNER WHICH DOES NOT CAUSE TORSION ABOUT THE LONGITUDINAL AXIS OF THE BEAM.
3. THE SIZE AND LOCATION OF EQUIPMENT, ELEVATORS, AND OTHER ITEMS MUST BE COORDINATED WITH SUPPORTING STRUCTURE. PROVIDE ADDITIONAL SUPPORTS AND ANGLE FRAMES WHERE NECESSARY. TRADE CONTRACTOR(S), GENERAL CONTRACTOR AND CONSTRUCTION MANAGER MUST ENSURE ACCURATE DIMENSIONAL INFORMATION IS PROVIDED TO STEEL FABRICATOR PRIOR TO FABRICATION.
4. UNLESS OTHERWISE NOTED, DO NOT HANG OR OTHERWISE SUPPORT ANY ITEMS FROM METAL DECKS. USE CONCRETE ANCHORS TO SUPPORT FROM CONCRETE SLABS CAST ON METAL DECK.

L. QUALITY CONTROL AND ASSURANCE

1. THE CONTRACTOR SHALL PERFORM QUALITY CONTROL, TESTING AND INSPECTION OF ALL WORK AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING REFERENCED CODES, SPECIFICATIONS AND STANDARDS.
2. THE OWNER WILL EMPLOY A TESTING AND INSPECTION AGENCY TO PERFORM SERVICES INDICATED TO BE BY THE OWNER IN THE PROJECT SPECIFICATIONS.
3. THE OWNER WILL ALSO EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS AND TESTS. ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE:
   a. CONCRETE: ALL CONCRETE WORK.
   b. MASONRY: ALL MASONRY WORK
   c. REINFORCING STEEL: ALL REINFORCING STEEL.
   d. STRUCTURAL STEEL: ALL WELDING AND HIGH STRENGTH BOLTING.
4. THE STRUCTURAL ENGINEER MAY GENERALLY OBSERVE THE PROGRESS OF THE WORK, BUT THEIR OBSERVATION SHALL NOT BE CONSTRUED AS INSPECTION.

STRUCTURAL STEEL FRAMING NOTES:

1. SEE THIS SHEET FOR GENERAL NOTES AND SHEET S002 FOR TYPICAL DETAILS.
2. UNDIMENSIONED MEMBERS TYPICALLY ARE EQUALLY SPACED BETWEEN DIMENSIONED MEMBERS.
3. COORDINATE SIZES AND LOCATIONS OF ALL FLOOR OPENINGS, ROOF OPENINGS, AND SLEEVES WITH ARCHITECTURAL AND MECHANICAL REQUIREMENTS. SEE S002 FOR TYPICAL FLOOR AND ROOF OPENING DETAILS.
4. FABRICATOR TO COMPLETE THE DESIGN OF ALL CONNECTIONS. SEE GENERAL NOTES AND PROJECT SPECIFICATIONS. SEE BEAM SHEAR CONNECTIONS DETAIL FOR MINIMUM CONNECTION REQUIREMENTS
5. FORCES INDICATED ON THE DRAWINGS ARE FACTORED FOR LRFD DESIGN, U.N.O. DESIGN BEAM CONNECTION FOR FORCES INDICATED ON THE PLANS. BRACING ELEVATIONS AND DETAILS MAY ALSO SHOW REQUIRED FORCES WHICH ARE ADDITIVE. FORCES ARE INDICATED AS:

   A = AXIAL END REACTION, KIPS
   V = VERTICAL END REACTION KIPS
   M = END MOMENT, FOOT KIPS
   FMC = FLEXIBLE MOMENT CONNECTION TYPE, SEE DETAILS

6. COMPOSITE SHEAR CONNECTORS ARE TO BE ¾ " DIA. HEADED STUDS x 5 " LONG U.N.O. PROVIDE ADDITIONAL STUDS SO THAT THE MAXIMUM INSTALLED SPACING DOES NOT EXCEED 24 " REGARDLESS OF QUANTITY INDICATED. IF NONE ARE INDICATED, PROVIDE AT 24" O.C.
7. W18X35 (16) — A SINGLE NUMBER GIVEN WITH A BEAM SIZE INDICATES TOTAL NUMBER OF STUDS EVENLY SPACED ALONG THE BEAM OR GIRDER. WHERE BEAMS FRAME PERPENDICULAR, SPACE QUANTITY OF STUDS INDICATED BETWEEN INTERSECTING PURLINS/COLUMNS EVENLY OVER THAT LENGTH.
8. INSTALL COMPOSITE SHEAR STUD CONNECTORS WITH 1 " MINIMUM LATERAL CONCRETE COVER. INSTALL STUDS WITH 2 " MINIMUM LATERAL COVER AT DECK MID-HEIGHT IN THE LOAD DIRECTION (TOWARD MID-SPAN OF THE BEAM) WHEN PLACED IN METAL DECK RIBS ORIENTED PERPENDICULAR TO THE BEAM.
9. FABRICATE PURLINS AND GIRDERS WITH NATURAL CAMBER UP. NO CAMBER REQUIRED FOR ROOF BEAMS. CAMBER MEMBERS NOTED "C = ON PLANS":
10. SCHEDULE ERECTION SEQUENCE AND/OR PROVIDE ADDITIONAL TEMPORARY VERTICAL BRACING SO THAT ALL PORTIONS OF THE STRUCTURAL FRAME ARE BRACED FOR LATERAL LOADS. HORIZONTAL DECK DIAPHRAGMS ARE TO BE COMPLETED BETWEEN STABILIZING BRACES PRIOR TO CONCRETE PLACEMENT.
11. ROOF AND FLOOR DECK IS TO BE CONTINUOUSLY SUPPORTED AT EACH END OF DECK SPANS. PROVIDE ADDITIONAL L3X3X1/4 DECK SUPPORT ANGLES WHERE REQUIRED.
12. ALL FRAMING CONNECTIONS, GROUTING OF COLUMN BASE PLATES, AND INSPECTIONS ARE TO BE COMPLETED PRIOR TO CASTING SLAB.
13. PURLINS AND GIRDERS ARE UNSHORED DURING CONCRETE SLAB PLACEMENT.
14. CONTRACTOR IS RESPONSIBLE TO PROVIDE A FINISHED SLAB EDGE WHICH IS STRAIGHT AND TRUE AND ACCURATELY LOCATED RELATIVE TO FINISH WALL LINES. GAGES SHOWN FOR CLOSURE ANGLES ARE THE MINIMUM REQUIRED. HEAVIER GAGE, STRAPS AND/OR A RETURN LIP AT TOP OF ANGLE MAY BE USED AT CONTRACTORS OPTION. FASTEN CLOSURE ANGLES TO DECK/BEAM AT 12 " MAX. O.C. OR AS REQUIRED TO PREVENT TORSIONAL DEFLECTION OF ANGLE.
15. ALL ANGLES, GIRTS AND OTHER MEMBERS SUPPORTING THE BUILDING FACADE, ARCHITECTURAL WALLS OF MASONRY OR GLASS, AND ITEMS NOTED "MASONRY SUPPORT" OR "CFMF SUPPORT" ARE CONSIDERED "ADJUSTABLE ITEMS" AND ARE TO BE LOCATED WITHIN 3/8" OF THEIR DESIGN VERTICAL AND HORIZONTAL LOCATION RELATIVE TO THE ESTABLISHED FINISH WALL LINE, FINISH FLOOR LINE, AND MASONRY COURSING.

ABBREVIATIONS:

A.B.	ANCHOR BOLT	MATL	MATERIAL
ACI	AMERICAN CONCRETE INSTITUTE	MAX	MAXIMUM
ADDL	ADDITIONAL	MECH	MECHANICAL
ADJ	ADJACENT	MFGR	MANUFACTURER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
ALUM	ALUMINUM		
ARCH	ARCHITECT	N.F.	NEAR FACE
		NO	NUMBER
B.L.	BUILDING LINE		
BLDG	BUILDING	O.C.	ON CENTER
BM(S)	BEAM(S)	O.F.	OUTSIDE FACE
BTWN	BETWEEN	OPNG	OPENING
C.L.	CENTER LINE	P.C.	PRECAST
C.J.	CONSTRUCTION OR CONTROL JOINT	P.L.	PROPERTY LINE
CLR	CLEAR	P.T.	POST TENSIONING
COL	COLUMN	PED	PEDESTAL
CONC	CONCRETE	PERP	PERPENDICULAR
CONN	CONNECTION	PL	PLATE
CONT	CONTINUOUS	PLF	POUNDS PER LINEAR FOOT
		PSF	POUNDS PER SQUARE FOOT
D.B.	DECK BEARING	PSI	POUNDS PER SQUARE INCH
DET	DETAIL		
DWG(S)	DRAWING(S)	R	RADIUS
		R.D.	ROOF DRAIN
E.E.	EACH END	R.J.	RUSTICATION JOINT
E.F.	EACH FACE	REINF	REINFORCED OR REINFORCEMENT
E.S.	EACH SIDE		
E.W.	EACH WAY	SECT	SECTION
E.J.	EXPANSION JOINT	SHT	SHEET
ELEV	ELEVATION OR ELEVATOR	SIM	SIMILAR
EMBED	EMBEDMENT	S.O.G.	SLAB ON GRADE
ENGR	ENGINEER	SPECS	SPECIFICATIONS
EOD	EDGE OF DECK	SQ	SQUARE
EOS	EDGE OF SLAB	STL	STEEL
EQ	EQUAL		
EXIST	EXISTING	T&B	TOP AND BOTTOM
		T/CONC	TOP OF CONCRETE
F.F.	FAR FACE	T/FTG	TOP OF FOOTING
FNDN	FOUNDATION	T/STL	TOP OF STEEL
FL	FLOOR	T/SLAB	TOP OF SLAB
FT	FOOT OR FEET	TEMP	TEMPERATURE
FTG	FOOTING	t	THICKNESS
		TYP	TYPICAL
GALV	GALVANIZED		
		U.N.O.	UNLESS NOTED OTHERWISE
H.P.	HIGH POINT		
HORIZ	HORIZONTAL	VERT	VERTICAL
I.F.	INSIDE FACE	W.P.	WORK POINT
IN	INCHES	#	NUMBER
		f'c	SPECI

SECTOR 4 - T/SLAB = 501'-6"± U.N.O.

1 S-102 LEVEL 200 FRAMING PLAN

1/8" = 1'-0"

SECTOR 4 - T/SLAB = 515'-0"± U.N.O.

2 S-102 LEVEL 300 FRAMING PLAN

1/8" = 1'-0"

DRAWING NOTES:

1. REFER TO S-001 AND S-002 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND REQUIREMENTS.
3. ALL EXISTING CONDITIONS SHOWN ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DRAWING NOTES: ☐

E1. EXISTING PRECAST DOUBLE TEE FLOOR FRAMING WITH STRUCTURAL TOPPING.
E2. EXISTING PRECAST PLANK FLOOR FRAMING WITH STRUCTURAL TOPPING.
E3. EXISTING CAST IN PLACE CONCRETE BEAM.
E4. EXISTING PRECAST CONCRETE BEAM.
E5. EXISTING CAST IN PLACE CONCRETE COLUMN.
E6. EXISTING CAST IN PLACE CONCRETE WALL.
E7. EXISTING STEEL COLUMN.
E8. EXISTING STEEL FLOOR FRAMING WITH SLAB ON METAL DECK.
E9. EXISTING EXPANSION JOINT.
E10. EXISTING STEEL BOOMERANG COLUMNS.

KEY NOTES: ⬡

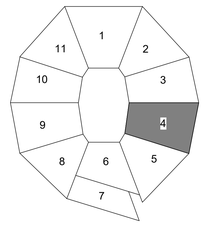
1. NEW ESCALATOR ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
2. NEW PRECAST STAIR. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. 4 1/2" NW CONCRETE OVER 2" 18 GA COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS) ON NEW STEEL FRAMING MIN. 2 SPANS. REFER TO TYP. DETAIL FOR ADDL. REINF. REQUIREMENTS.
4. EXISTING WF COLUMN TO REMAIN AND BE REUSED. DO NOT DAMAGE DURING DEMO OF EXISTING RAMP STRUCTURE.
5. 4" TOPPING SLAB OVER 6 1/2" STRUCTURAL SLAB. REFER TO ARCH.
6. HSS6X6X5/16 HANGER TO FLOOR ABOVE.
7. RAMP SLAB. REFER TO ARCH FOR ELEVATIONS.
8. EXISTING RAMP TO REMAIN THIS LEVEL. NO WORK.
9. REMOVE EXISTING SLAB THIS AREA. CUT SLAB (1) FLUTE NORTH/SOUTH OF EXISTING STOREFRONT AT EACH/WEST RAMP. REUSE EXISTING STEEL FRAMING TO SUPPORT NEW SLAB ON METAL DECK. PROVIDE 1" ADDITIONAL CONCRETE TO MATCH EXISTING ELEVATIONS. (2)
10. HSS HANGER TO FLOOR BELOW.
11. HSS POST TO LANDING ABOVE.
12. HSS6X6X5/16 POST TO FLOOR BELOW.
13. NEW OPENING IN CONCRETE WALL. SAW CUT FULL DEPTH TO ROUGH SIZE OF OPENING AND CHIP BACK SALVAGING EXISTING REINFORCING PER DETAIL. REFER TO ARCH FOR DIMENSIONS.
14. CUT DOWN TOP OF EXISTING WALL TO ALLOW FOR TOPPING SLAB AND WATERPROOFING TO RUN CONTINUOUSLY THROUGH.
15. EXTEND COLUMN TO LEVEL OF NEW FRAMING WITH W12 TO MATCH EXIST. (W12X106 TYP. FIELD VERIFY). PREPARE TOP OF COLUMN AND PROVIDE COMPLETE PEN. WELD ALL AROUND.
16. SALVAGE EXISTING DIAPHRAGM REINFORCING EXTENDING FROM PEDESTRIAN BRIDGE. CAST INTO NEW SLAB ON METAL DECK.
17. REMOVE COLUMN BETWEEN 500 AND 600 LEVEL AFTER NEW BEAM AT 700 LEVEL IS INSTALLED AND ALL CONNECTIONS ARE COMPLETE. PORTION ABOVE 600 LEVEL TO REMAIN AS HANGER.

KEY NOTES: ⬡

18. NEW RAMP SUPPORTED BY REINFORCED CONCRETE WALLS BELOW. SEE DETAIL 14/S-201.
19. REINFORCE COLUMN, SEE DETAIL 4/S-201.
20. PLACE BEAM BELOW EXISTING PRECAST PLANK AT NEW STAIR BEARING. SHIM AND GROUT. PROVIDE 1/2" DIA HILTI HUS SCREW ANCHORS THRU FLANGE INTO UNDERSIDE OF PRECAST AT MIDSPAN AND QUARTER POINTS.
21. SAW CUT EXISTING PRECAST TO ALLOW FOR NEW BEAM PLACEMENT. SURVEY EXISTING CONDITIONS INCLUDING LOCATION OF ATTACHMENT POINTS AND SCANNING FOR REINFORCING AND REPORT TO ENGINEER PRIOR TO CUTTING.
22. 1 1/2" ROOF DECK.
23. KINK BEAM TO MATCH SLOPE OF EXISTING RAMP. PROVIDE COMPLETE PENETRATION SPLICE AT KINK.
24. V.I.F. EXISTING STEEL BEAM TO STEEL BEAM AND STEEL COLUMN CONNECTIONS. REINFORCE CONNECTIONS AS REQUIRED. SEE DETAIL 42/S-203.
25. ALTERNATIVELY SHORE EXISTING BEAMS AND REPLACE WITH WIDE FLANGE BEAM.
26. NEW STAIR LANDING SUPPORTED BY REINFORCED CONCRETE WALLS BELOW.

FRAMING PLAN LEGEND:

- SLAB STEP
- BEAM SPLICE
- DIRECTION OF DECK SPAN
- MOMENT CONNECTION
- [XXX'-XX"] INDICATES BEAM TOP OF STEEL ELEVATION U.N.O.
- XXX'-XX" DECK BEARING ELEVATION
- EP-5 EMBED PLATE MARK, SEE TYPICAL DETAIL



N

0 4' 8' 16'

SCALE: 1/8"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
2	4/28/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

main 513.621.6211
kzf.com

STATE OF OHIO
JASON M. JONES
E-66114
REGISTERED PROFESSIONAL ENGINEER
4/28/26

DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

SECTOR 4 - LEVEL 200 & 300 FRAMING PLANS

DRAWING NUMBER ISSUE
S-102 2

K.0
L.0
P.0
Q.0
17.9
18
18.5
18.9
19
19.5
19.9
20
20.7
21
SIM 1 S-201
45 S-203
E5 BELOW
E7 ABOVE
19 LEVEL 400 TO LEVEL 700
71 S-304
L6X4X5/16
W21X48 V=20 A=20
76 S-205
11
2
7 S-201
W14X22 V=20
W8X35 V=20
40 S-203
10
W18X40 V=75
W14X22 V=20
W21X44 V=20
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46 S-203
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24 S-202
19
E5 TYP
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HSS12X12X3/8 [53A'-11 1/2"]
33 S-202
LEVEL 100 TO LEVEL 400
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W14X26 V=30
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W18X40 V=60 A=20
4 TYP
1 S-201
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HSS12X12X3/8 [53A'-11 1/2"]
74 S-205
E7 TYP
1SS-301
E3 TYP
E1 TYP
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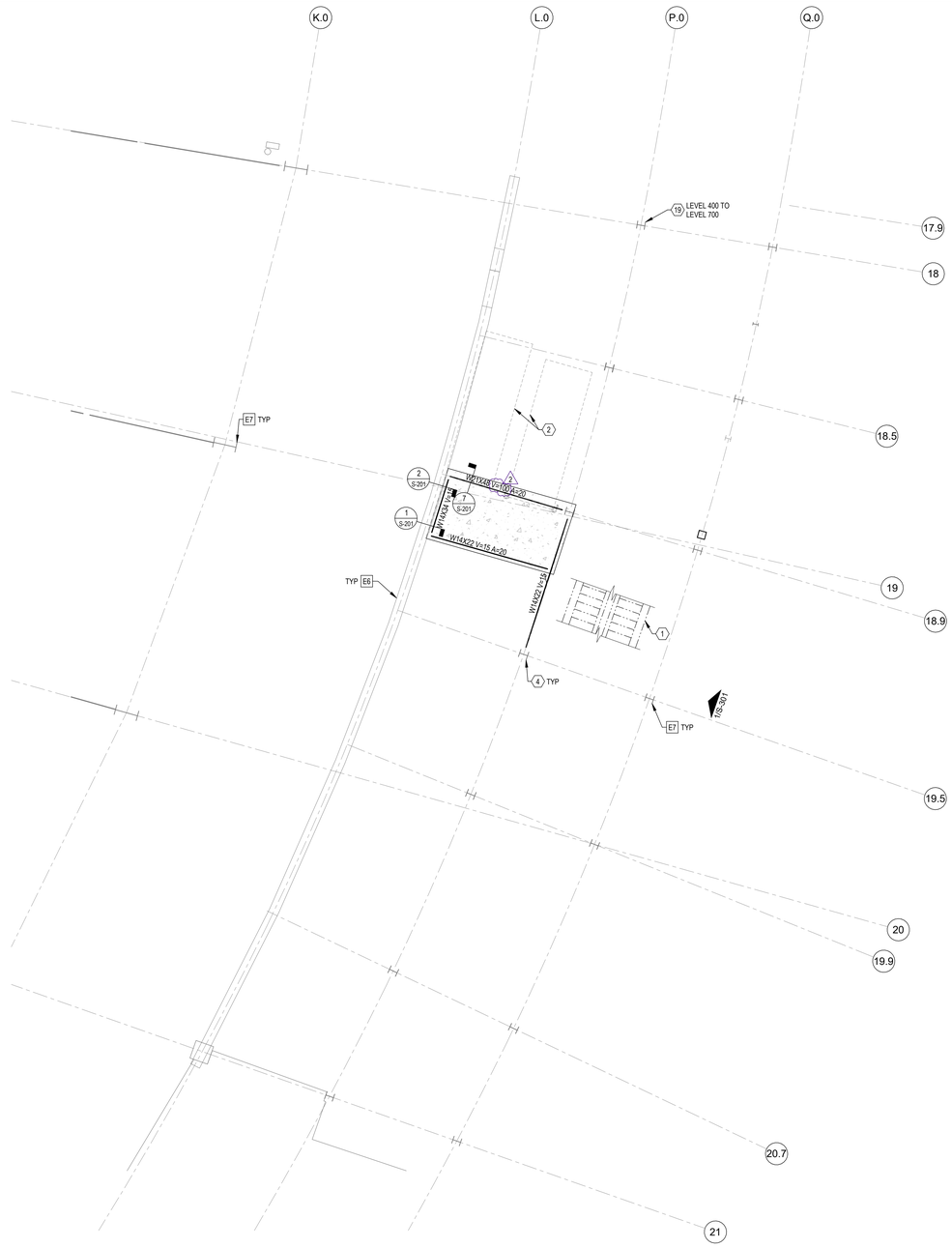
W14X26 V=30
HSS12X12X3/8 [53A'-6"]
HSS12X12X3/8 [53A'-11 1/2"]
EX W12X65
41 S-203
9
E8 TYP
3 S-201
EX W14X22
EX W14X26
EX W14X22
EX W14X22
EX W14X22

SECTOR 4 - T/SLAB = 565'-6"± U.N.O.

1 S-104 LEVEL 600 FRAMING PLAN

1/8" = 1'-0"



SECTOR 4 - T/SLAB = 577'-6"± U.N.O.

2 S-104 LEVEL 650 FRAMING PLAN

1/8" = 1'-0"

DRAWING NOTES:

1. REFER TO S-001 AND S-002 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND REQUIREMENTS.
3. ALL EXISTING CONDITIONS SHOWN ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DRAWING NOTES:

E1. EXISTING PRECAST DOUBLE TEE FLOOR FRAMING WITH STRUCTURAL TOPPING.

E2. EXISTING PRECAST PLANK FLOOR FRAMING WITH STRUCTURAL TOPPING.

E3. EXISTING CAST IN PLACE CONCRETE BEAM.

E4. EXISTING PRECAST CONCRETE BEAM.

E5. EXISTING CAST IN PLACE CONCRETE COLUMN.

E6. EXISTING CAST IN PLACE CONCRETE WALL.

E7. EXISTING STEEL COLUMN.

E8. EXISTING STEEL FLOOR FRAMING WITH SLAB ON METAL DECK.

E9. EXISTING EXPANSION JOINT.

E10. EXISTING STEEL BOOMERANG COLUMNS.

KEY NOTES:

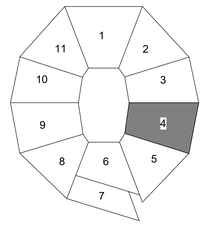
1. NEW ESCALATOR ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
2. NEW PRECAST STAIR. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. 4 1/2" NW CONCRETE OVER 2" 18 GA COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS) ON NEW STEEL FRAMING MIN. 2 SPANS. REFER TO TYP. DETAIL FOR ADDL. REINF. REQUIREMENTS.
4. EXISTING WF COLUMN TO REMAIN AND BE REUSED. DO NOT DAMAGE DURING DEMO OF EXISTING RAMP STRUCTURE.
5. 4" TOPPING SLAB OVER 6 1/2" STRUCTURAL SLAB. REFER TO ARCH.
6. HSS6X6X5/16 HANGER TO FLOOR ABOVE.
7. RAMP SLAB. REFER TO ARCH FOR ELEVATIONS.
8. EXISTING RAMP TO REMAIN THIS LEVEL. NO WORK.
9. REMOVE EXISTING SLAB THIS AREA. CUT SLAB (1) FLUTE NORTH/SOUTH OF EXISTING STOREFRONT AT EACH/WEST RAMP. REUSE EXISTING STEEL FRAMING TO SUPPORT NEW SLAB ON METAL DECK. PROVIDE 1" ADDITIONAL CONCRETE TO MATCH EXISTING ELEVATIONS.
10. HSS HANGER TO FLOOR BELOW.
11. HSS POST TO LANDING ABOVE.
12. HSS6X6X5/16 POST TO FLOOR BELOW.
13. NEW OPENING IN CONCRETE WALL. SAW CUT FULL DEPTH TO ROUGH SIZE OF OPENING AND CHIP BACK SALVAGING EXISTING REINFORCING PER DETAIL. REFER TO ARCH FOR DIMENSIONS.
14. CUT DOWN TOP OF EXISTING WALL TO ALLOW FOR TOPPING SLAB AND WATERPROOFING TO RUN CONTINUOUSLY THROUGH.
15. EXTEND COLUMN TO LEVEL OF NEW FRAMING WITH W12 TO MATCH EXIST. (W12X106 TYP. FIELD VERIFY). PREPARE TOP OF COLUMN AND PROVIDE COMPLETE PEN. WELD ALL AROUND.
16. SALVAGE EXISTING DIAPHRAGM REINFORCING EXTENDING FROM PEDESTRIAN BRIDGE. CAST INTO NEW SLAB ON METAL DECK.
17. REMOVE COLUMN BETWEEN 500 AND 600 LEVEL AFTER NEW BEAM AT 700 LEVEL IS INSTALLED AND ALL CONNECTIONS ARE COMPLETE. PORTION ABOVE 600 LEVEL TO REMAIN AS HANGER.

KEY NOTES:

18. NEW RAMP SUPPORTED BY REINFORCED CONCRETE WALLS BELOW. SEE DETAIL 14/S-201.
19. REINFORCE COLUMN, SEE DETAIL 4/S-201.
20. PLACE BEAM BELOW EXISTING PRECAST PLANK AT NEW STAIR BEARING. SHIM AND GROUT. PROVIDE 1/2" DIA HILTI HUS SCREW ANCHORS THRU FLANGE INTO UNDERSIDE OF PRECAST AT MID/SPAN AND QUARTER POINTS.
21. SAW CUT EXISTING PRECAST TO ALLOW FOR NEW BEAM PLACEMENT. SURVEY EXISTING CONDITIONS INCLUDING LOCATION OF ATTACHMENT POINTS AND SCANNING FOR REINFORCING AND REPORT TO ENGINEER PRIOR TO CUTTING.
22. 1 1/2" ROOF DECK.
23. KINK BEAM TO MATCH SLOPE OF EXISTING RAMP. PROVIDE COMPLETE PENETRATION SPLICE AT KINK.
24. V.I.F. EXISTING STEEL BEAM TO STEEL BEAM AND STEEL COLUMN CONNECTIONS. REINFORCE CONNECTIONS AS REQUIRED. SEE DETAIL 42/S-203.
25. ALTERNATIVELY SHORE EXISTING BEAMS AND REPLACE WITH WIDE FLANGE BEAM.
26. NEW STAIR LANDING SUPPORTED BY REINFORCED CONCRETE WALLS BELOW.

FRAMING PLAN LEGEND:

- SLAB STEP
- BEAM SPLICE
- DIRECTION OF DECK SPAN
- MOMENT CONNECTION
- [XXX'-XX"] INDICATES BEAM TOP OF STEEL ELEVATION U.N.O.
- XXX'-XX" DECK BEARING ELEVATION
- EP-5 EMBED PLATE MARK, SEE TYPICAL DETAIL



0 4' 8' 16'

SCALE: 1/8"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
2	4/28/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

main 513.621.6211
kzf.com

DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

SECTOR 4 - LEVEL 600 AND 650 FRAMING PLANS

DRAWING NUMBER	ISSUE
S-104	2

K.0
L.0
P.0
Q.0
17.9
18
18.5
18.9
19
19.5
19.9
20
20.7
21
LEVEL 400 TO LEVEL 700
E7 TYP
E8
TYP E6
TYP E7
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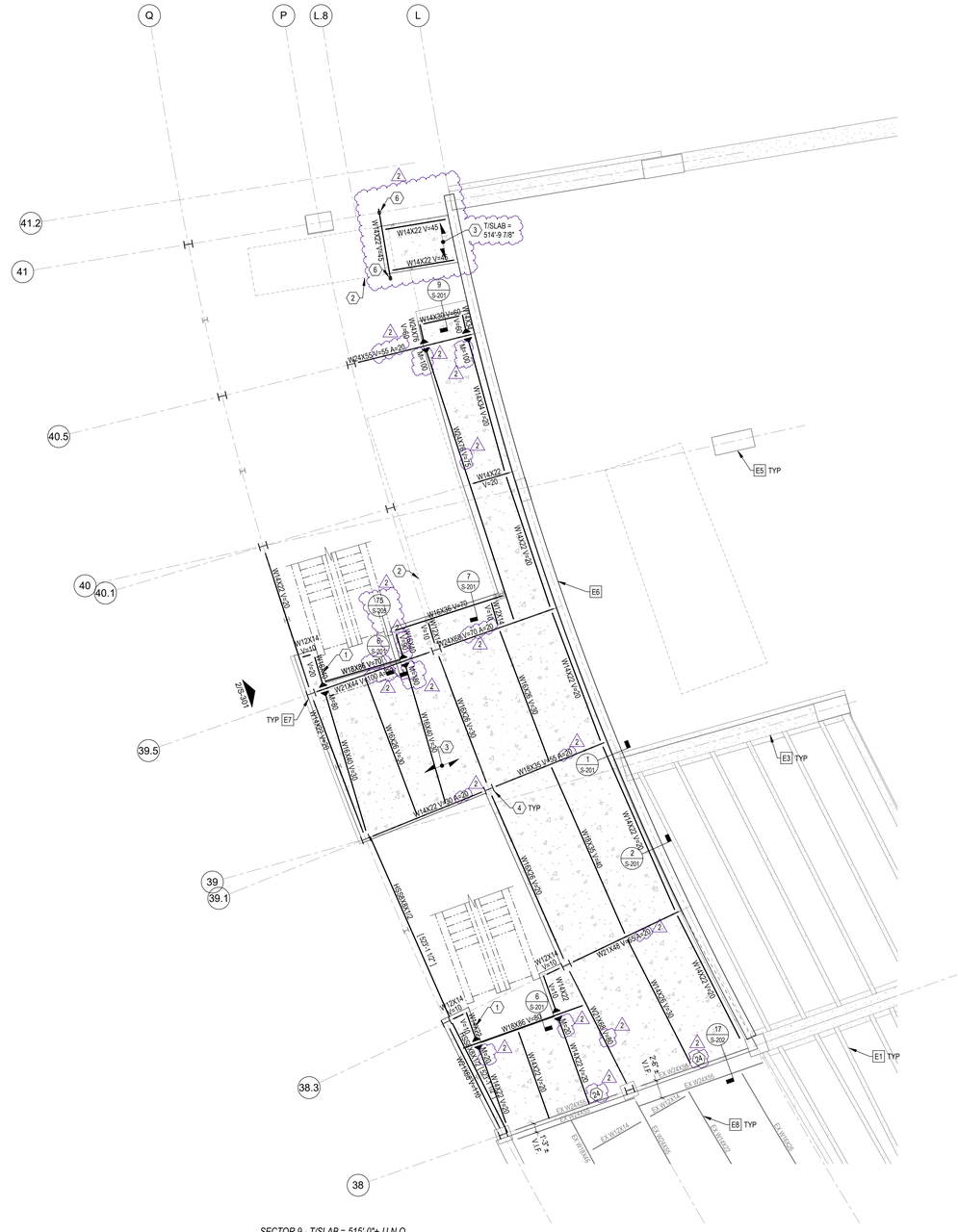
SECTOR 9 - T/SLAB = 501'-6"± U.N.O.

1 S-106 LEVEL 200 FRAMING PLAN

1/8" = 1'-0"


Q
P
L.8
L
41.2
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39.5
39
39.1
38.3
38
E1 TYP
E3 TYP
E5 TYP
E6
E7
E8 TYP
W14X22 V=45
T/SLAB = 514'-9 7/8"
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40.1
39.5
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39.1
38.3
38
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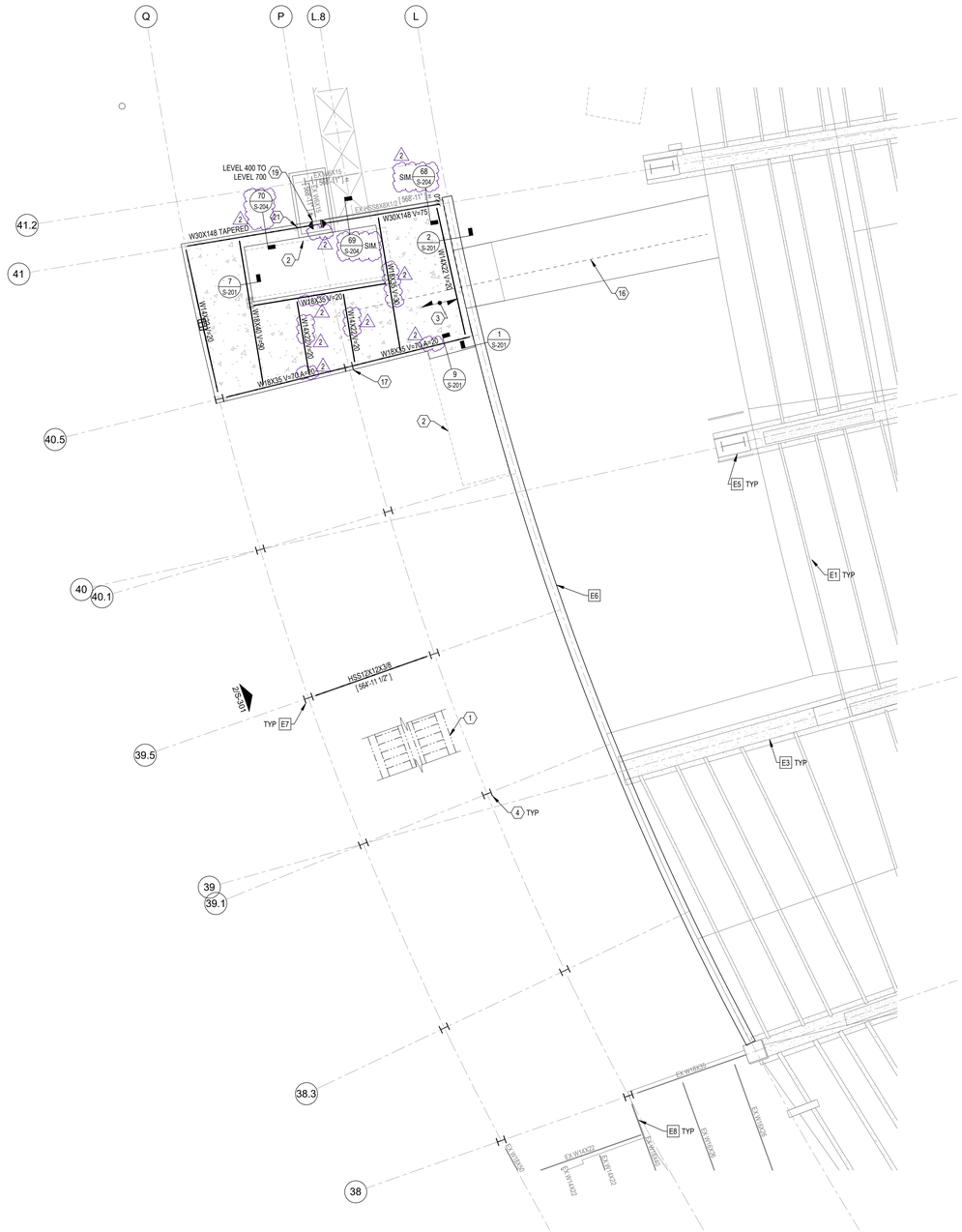
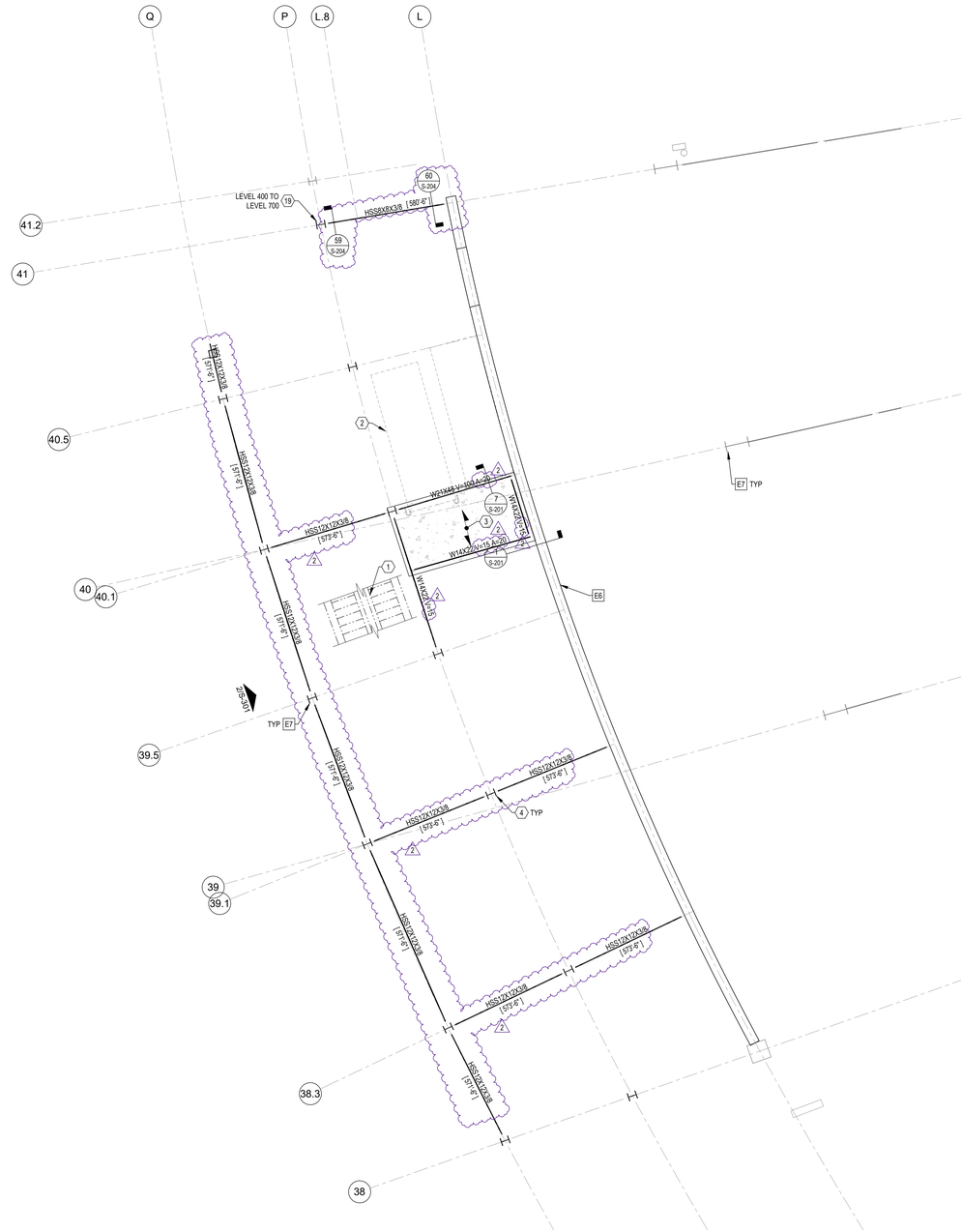


SECTOR 9 - T/SLAB = 565'-6"± U.N.O.

1 S-108 LEVEL 600 FRAMING PLAN

1/8" = 1'-0"



SECTOR 9 - T/SLAB = 577'-6"± U.N.O.

2 S-108 LEVEL 650 FRAMING PLAN

1/8" = 1'-0"

DRAWING NOTES:

1. REFER TO S-001 AND S-002 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND REQUIREMENTS.
3. ALL EXISTING CONDITIONS SHOWN ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DRAWING NOTES: ☐

E1. EXISTING PRECAST DOUBLE TEE FLOOR FRAMING WITH STRUCTURAL TOPPING.
E2. EXISTING PRECAST PLANK FLOOR FRAMING WITH STRUCTURAL TOPPING.
E3. EXISTING CAST IN PLACE CONCRETE BEAM.
E4. EXISTING PRECAST CONCRETE BEAM.
E5. EXISTING CAST IN PLACE CONCRETE COLUMN.
E6. EXISTING CAST IN PLACE CONCRETE WALL.
E7. EXISTING STEEL COLUMN.
E8. EXISTING STEEL FLOOR FRAMING WITH SLAB ON METAL DECK.
E9. EXISTING EXPANSION JOINT.
E10. EXISTING STEEL BOOMERANG COLUMNS.

KEY NOTES: ⬡

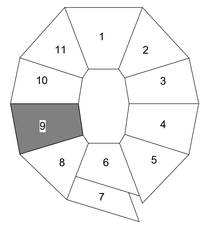
1. NEW ESCALATOR ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
2. NEW PRECAST STAIR. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. 4 1/2" NW CONCRETE OVER 2" 18 GA COMPOSITE METAL DECK (6 1/2" TOTAL THICKNESS) ON NEW STEEL FRAMING MIN. 2 SPANS. REFER TO TYP. DETAIL FOR ADDL. REINF. REQUIREMENTS.
4. EXISTING WF COLUMN TO REMAIN AND BE REUSED. DO NOT DAMAGE DURING DEMO OF EXISTING RAMP STRUCTURE.
5. 4" TOPPING SLAB OVER 6 1/2" STRUCTURAL SLAB. REFER TO ARCH.
6. HSS6X6X5/16 HANGER TO FLOOR ABOVE.
7. RAMP SLAB. REFER TO ARCH FOR ELEVATIONS.
8. EXISTING RAMP TO REMAIN THIS LEVEL. NO WORK.
9. REMOVE EXISTING SLAB THIS AREA. CUT SLAB (1) FLUTE NORTH/SOUTH OF EXISTING STOREFRONT AT EACH/WEST RAMP. REUSE EXISTING STEEL FRAMING TO SUPPORT NEW SLAB ON METAL DECK. PROVIDE 1" ADDITIONAL CONCRETE TO MATCH EXISTING ELEVATIONS. (2)
10. HSS HANGER TO FLOOR BELOW.
11. HSS POST TO LANDING ABOVE.
12. HSS6X6X5/16 POST TO FLOOR BELOW.
13. NEW OPENING IN CONCRETE WALL. SAW CUT FULL DEPTH TO ROUGH SIZE OF OPENING AND CHIP BACK SALVAGING EXISTING REINFORCING PER DETAIL. REFER TO ARCH FOR DIMENSIONS.
14. CUT DOWN TOP OF EXISTING WALL TO ALLOW FOR TOPPING SLAB AND WATERPROOFING TO RUN CONTINUOUSLY THROUGH.
15. EXTEND COLUMN TO LEVEL OF NEW FRAMING WITH W12 TO MATCH EXIST. (W12X106 TYP. FIELD VERIFY). PREPARE TOP OF COLUMN AND PROVIDE COMPLETE PEN. WELD ALL AROUND.
16. SALVAGE EXISTING DIAPHRAGM REINFORCING EXTENDING FROM PEDESTRIAN BRIDGE. CAST INTO NEW SLAB ON METAL DECK.
17. REMOVE COLUMN BETWEEN 500 AND 600 LEVEL AFTER NEW BEAM AT 700 LEVEL IS INSTALLED AND ALL CONNECTIONS ARE COMPLETE. PORTION ABOVE 600 LEVEL TO REMAIN AS HANGER.

KEY NOTES: ⬡

18. NEW RAMP SUPPORTED BY REINFORCED CONCRETE WALLS BELOW. SEE DETAIL 14/S-201.
19. REINFORCE COLUMN. SEE DETAIL 4/S-201.
20. PLACE BEAM BELOW EXISTING PRECAST PLANK AT NEW STAIR BEARING. SHIM AND GROUT. PROVIDE 1/2" DIA HILTI HUS SCREW ANCHORS THRU FLANGE INTO UNDERSIDE OF PRECAST AT MIDPSAN AND QUARTER POINTS.
21. SAW CUT EXISTING PRECAST TO ALLOW FOR NEW BEAM PLACEMENT. SURVEY EXISTING CONDITIONS INCLUDING LOCATION OF ATTACHMENT POINTS AND SCANNING FOR REINFORCING AND REPORT TO ENGINEER PRIOR TO CUTTING.
22. 1 1/2" ROOF DECK.
23. KINK BEAM TO MATCH SLOPE OF EXISTING RAMP. PROVIDE COMPLETE PENETRATION SPLICE AT KINK.
24. V.I.F. EXISTING STEEL BEAM TO STEEL BEAM AND STEEL COLUMN CONNECTIONS. REINFORCE CONNECTIONS AS REQUIRED. SEE DETAIL 42/S-203.
25. ALTERNATIVELY SHORE EXISTING BEAMS AND REPLACE WITH WIDE FLANGE BEAM.
26. NEW STAIR LANDING SUPPORTED BY REINFORCED CONCRETE WALLS BELOW.

FRAMING PLAN LEGEND:

- SLAB STEP
- BEAM SPLICE
- DIRECTION OF DECK SPAN
- MOMENT CONNECTION
- [XXX'-XX"] INDICATES BEAM TOP OF STEEL ELEVATION U.N.O.
- XXX'-XX" DECK BEARING ELEVATION
- EP-5 EMBED PLATE MARK, SEE TYPICAL DETAIL



0 4' 8' 16'
SCALE: 1/8"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
2	4/28/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

main 513.621.6211
kzf.com

STATE OF OHIO
JASON M. JONES
E-66114
REGISTERED
PROFESSIONAL ENGINEER
4/28/2026

DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

SECTOR 9 - LEVEL 600 AND 650 FRAMING PLANS

DRAWING NUMBER	ISSUE
S-108	2

Q
P
L.8
L
41.2
41
40.5
40
40.1
39.5
39
39.1
38.3
38
LEVEL 400 TO LEVEL 700
W30X148 TAPERED
W14X22 Y=20
W18X50 Y=30 A=20
W18X50 Y=60 A=20
W18X50 Y=70 A=20
W14X145 M=160 Y=30 A=20
W24X176 M=360 Y=50
W40X199 Y=30 A=20
HSS10X6X3/8
W14X145 M=160 Y=50
W18X86 Y=80
W18X35 Y=60
W14X74 Y=10
W14X61 M=360 Y=50
W14X68 M=360 Y=50
W18X35 Y=50
W14X74 Y=30
W14X61 M=360 Y=30
W14X68 M=360 Y=30
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W14X74 Y=70
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W14X68 M=360 Y=80
W14X74 Y=80
W14X61 M=360 Y=90
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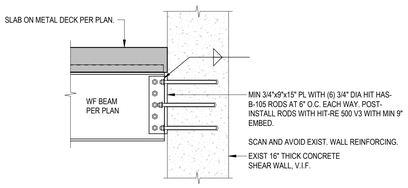
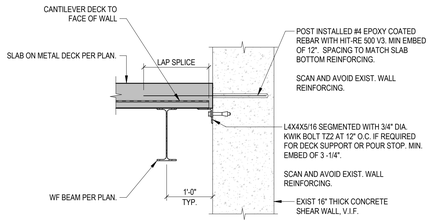
W14X74 Y=90
W14X61 M=360 Y=100
W14X68 M=360 Y=100
W14X74



NEW STEEL BEAM TO EXISTING CONCRTE WALL

1 S-201 SECTION

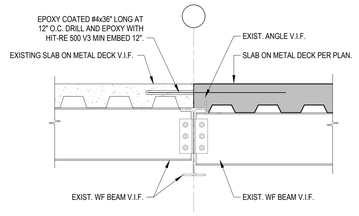
3/4" = 1'-0"



NEW SLAB TO EXISTING CONCRETE WALL

2 S-201 SECTION

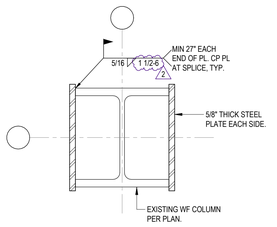
3/4" = 1'-0"



NEW SLAB TO EXISTING SLAB

3 S-201 SECTION

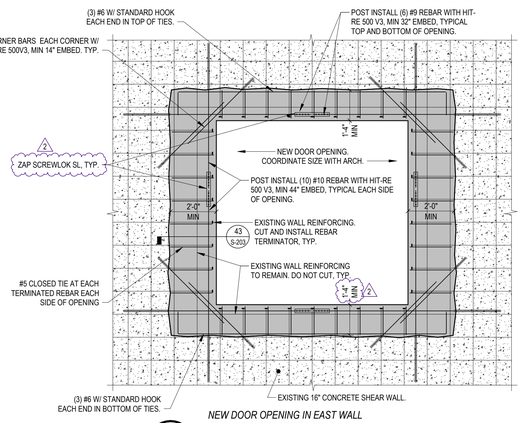
3/4" = 1'-0"



EXISTING COLUMN REINFORCING

4 S-201 PLAN DETAIL

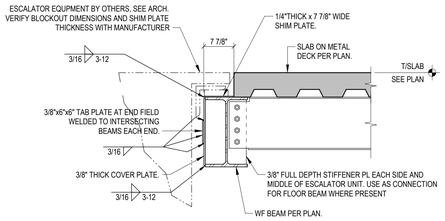
1 1/2" = 1'-0"



NEW DOOR OPENING IN EAST WALL

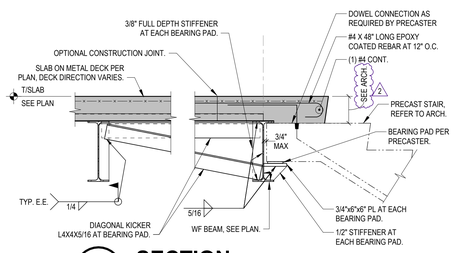
5 S-201 ELEVATION

3/8" = 1'-0"



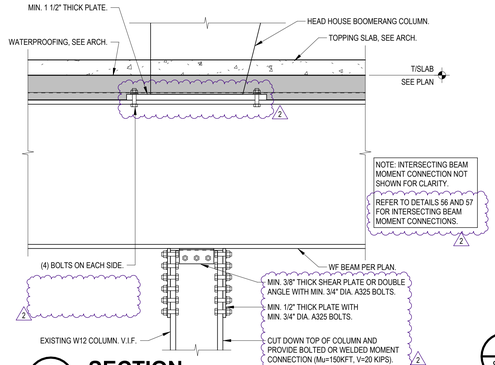
6 S-201 SECTION

3/4" = 1'-0"



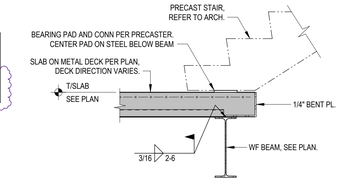
7 S-201 SECTION

3/4" = 1'-0"



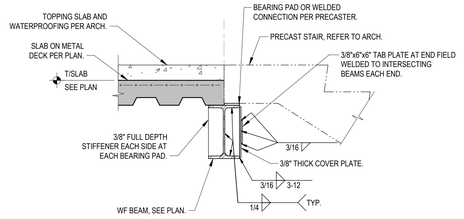
8 S-201 SECTION

3/4" = 1'-0"



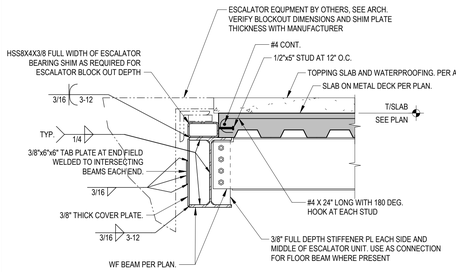
9 S-201 SECTION

3/4" = 1'-0"



10 S-201 SECTION

3/4" = 1'-0"



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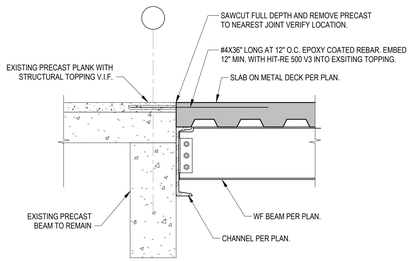
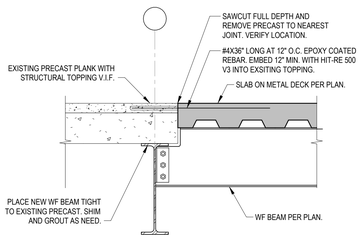
3/4" = 1'-0"



12 S-201 SECTION

3/4" = 1'-0"



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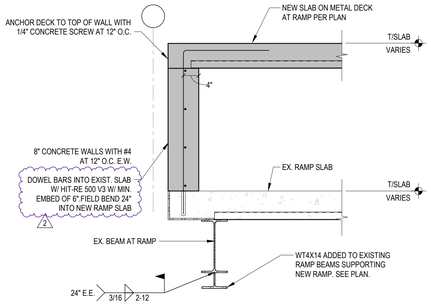
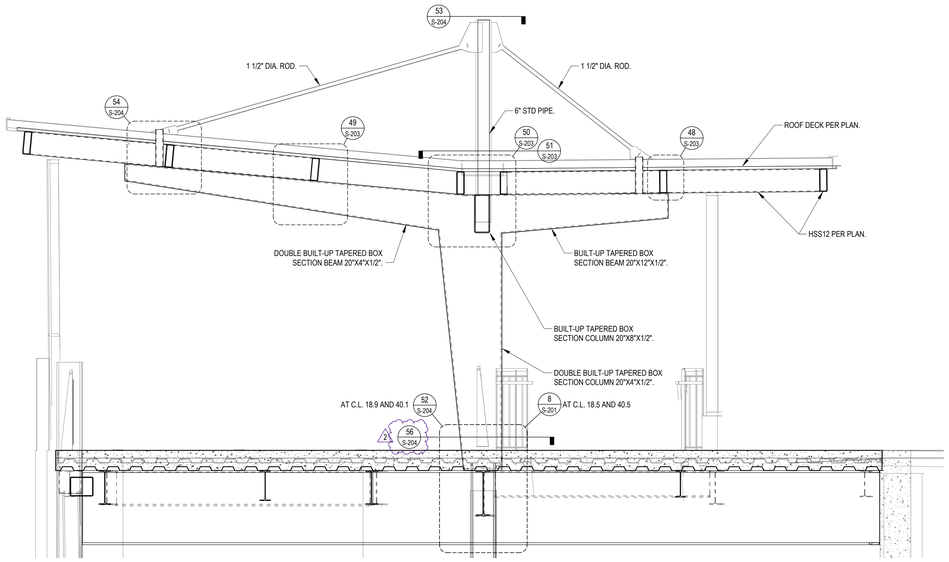
3/4" = 1'-0"



14 S-201 SECTION

3/4" = 1'-0"



15 S-201 SECTION

3/8" = 1'-0"

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1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
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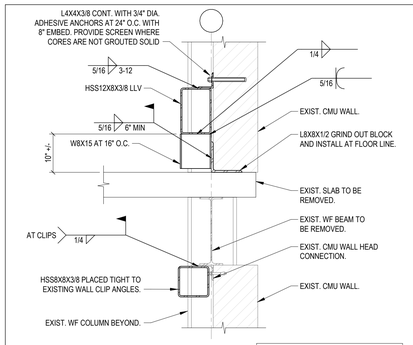
STATE OF OHIO
JASON M. JONES
E-66114
REGISTERED
PROFESSIONAL ENGINEER
4/28/2026

DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

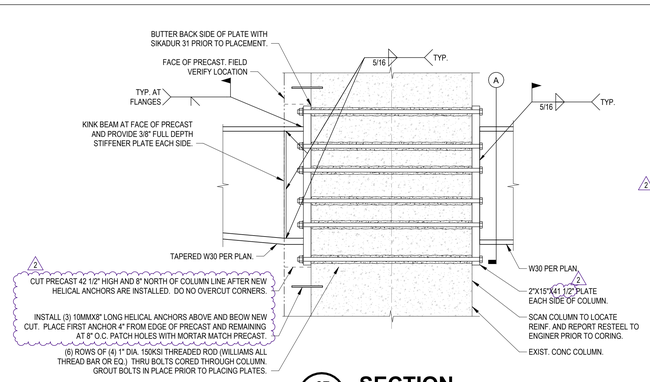
FRAMING DETAILS

DRAWING NUMBER	ISSUE
S-201	2

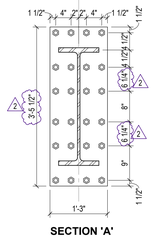


NOTE: CONNECT HSS MEMBERS TO COLUMNS EACH END SIMILAR TO 27/S-202

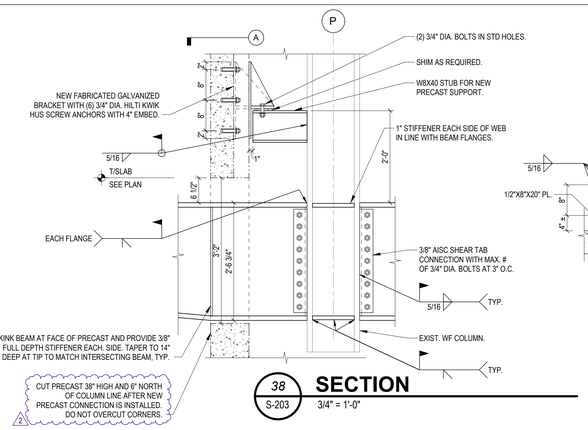
36 S-203 **SECTION**
3/4" = 1'-0"



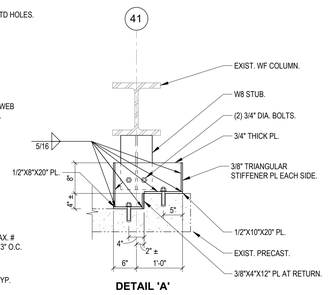
37 S-203 **SECTION**
3/4" = 1'-0"



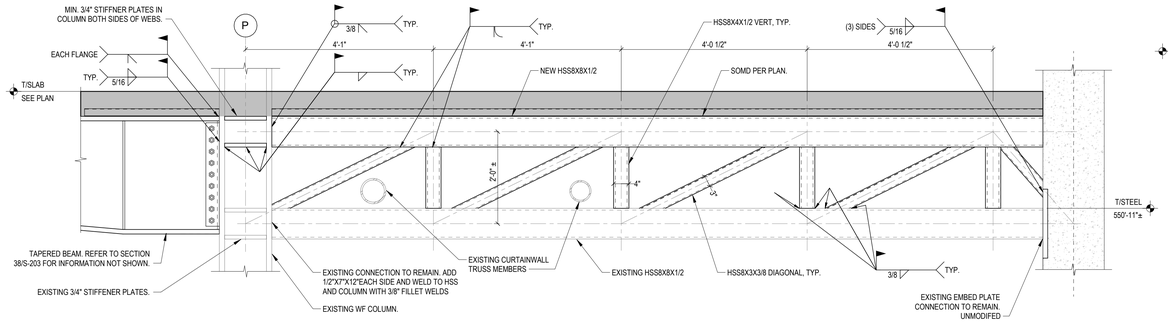
SECTION 'A'



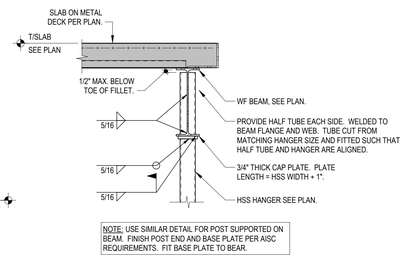
38 S-203 **SECTION**
3/4" = 1'-0"



DETAIL 'A'



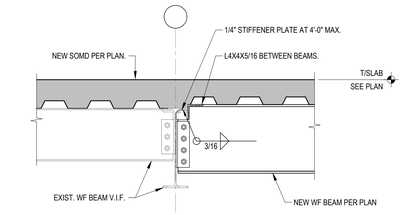
39 S-203 **SECTION**
3/4" = 1'-0"



NOTE: USE SIMILAR DETAIL FOR POST SUPPORTED ON BEAM. FINISH POST END AND BASE PLATE PER AISC REQUIREMENTS. FIT BASE PLATE TO BEAR.

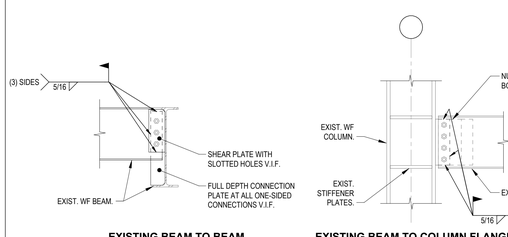
HANGER TO BEAM CONNECTION

40 S-203 **DETAIL**
3/4" = 1'-0"

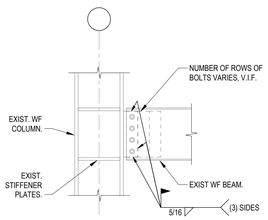


METAL DECK SUPPORT AT BEAMS WITH DIFFERENT ELEVATIONS

41 S-203 **DETAIL**
3/4" = 1'-0"

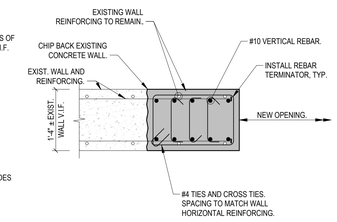


EXISTING BEAM TO BEAM CONNECTION REINFORCING

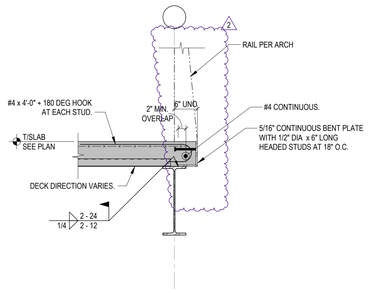


EXISTING BEAM TO COLUMN FLANGE CONNECTION REINFORCING

42 S-203 **DETAIL**
3/4" = 1'-0"

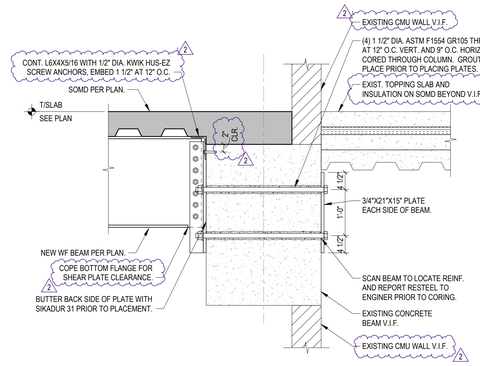


43 S-203 **DETAIL**
3/4" = 1'-0"

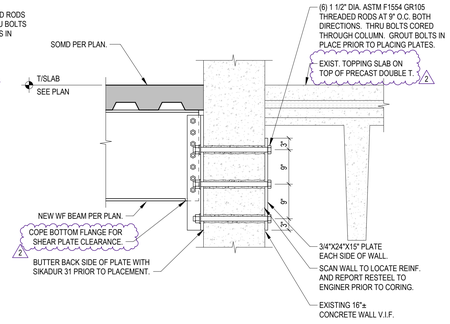


TYPICAL SLAB EDGE

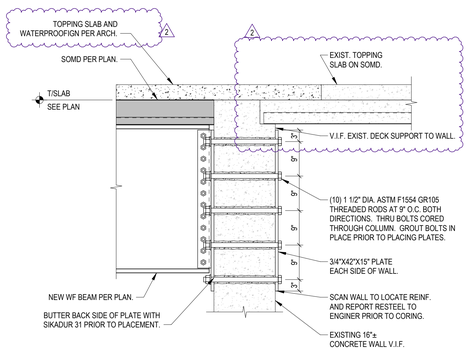
44 S-203 **DETAIL**
3/4" = 1'-0"



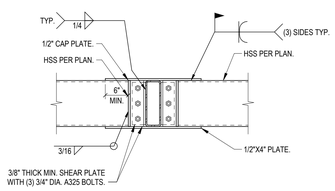
45 S-203 **SECTION**
3/4" = 1'-0"



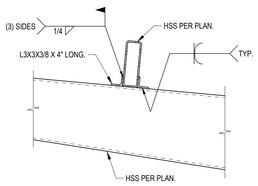
46 S-203 **SECTION**
3/4" = 1'-0"



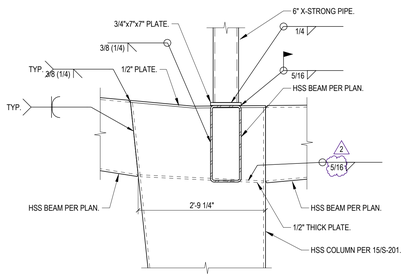
47 S-203 **SECTION**
3/4" = 1'-0"



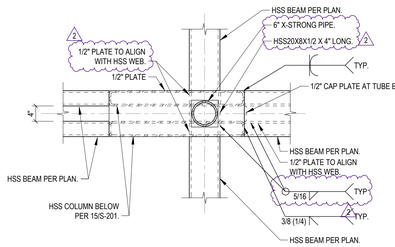
48 S-203 **SECTION**
3/4" = 1'-0"



49 S-203 **SECTION**
3/4" = 1'-0"



50 S-203 **SECTION**
3/4" = 1'-0"



51 S-203 **PLAN DETAIL**
3/4" = 1'-0"

NO.	DATE	DESCRIPTION
1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
2	4/28/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

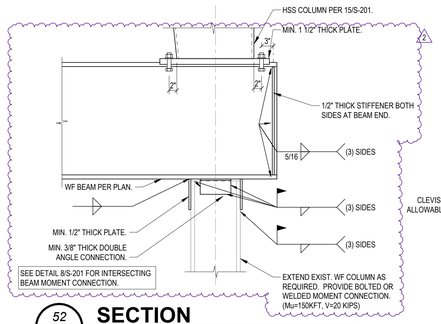
main 513.621.6211
kzf.com

STATE OF OHIO
JASON M. JONES
E-66114
REGISTERED
PROFESSIONAL ENGINEER
4/28/2026

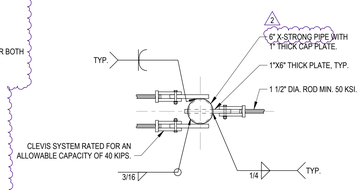
DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

FRAMING DETAILS

DRAWING NUMBER	ISSUE
S-203	2

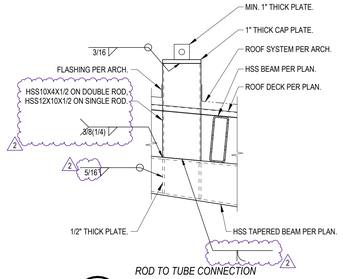


52 S-204 **SECTION** 3/4" = 1'-0"



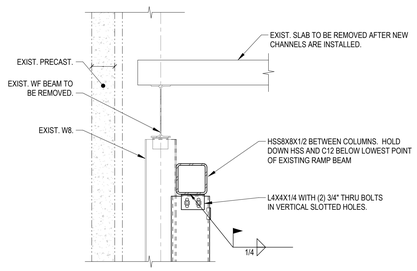
ROD TO PIPE CONNECTION

53 S-204 **PLAN DETAIL** 3/4" = 1'-0"

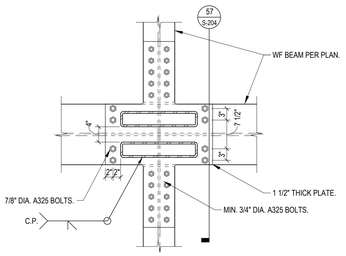


ROD TO TUBE CONNECTION

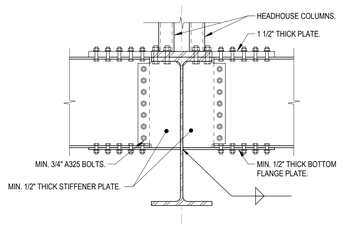
54 S-204 **SECTION** 3/4" = 1'-0"



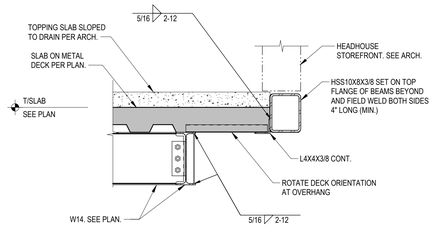
55 S-204 **SECTION** 3/4" = 1'-0"



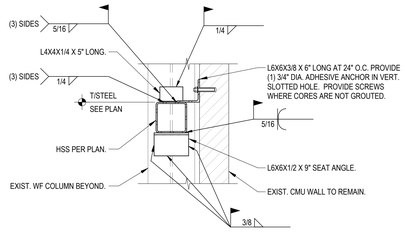
56 S-204 **SECTION** 3/4" = 1'-0"



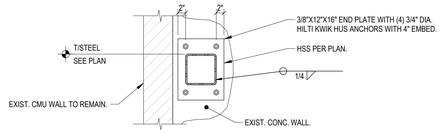
57 S-204 **SECTION** 3/4" = 1'-0"



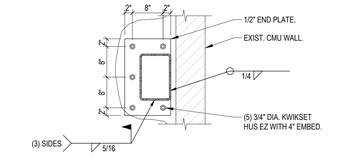
58 S-204 **SECTION** 3/4" = 1'-0"



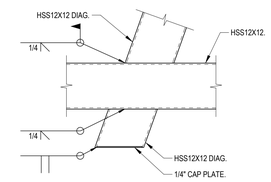
59 S-204 **SECTION** 3/4" = 1'-0"



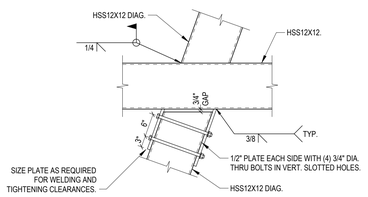
60 S-204 **SECTION** 3/4" = 1'-0"



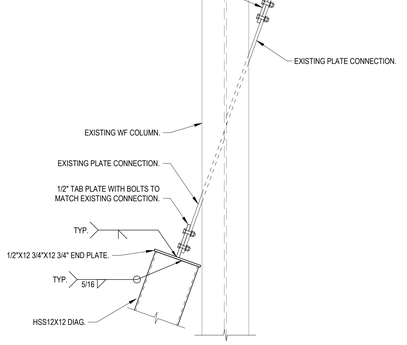
61 S-204 **SECTION** 3/4" = 1'-0"



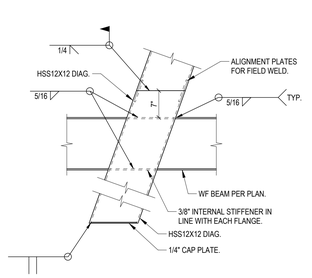
62 S-204 **SECTION** 3/4" = 1'-0"



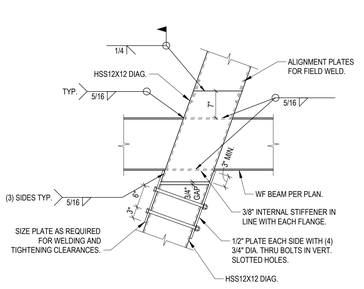
63 S-204 **SECTION** 3/4" = 1'-0"



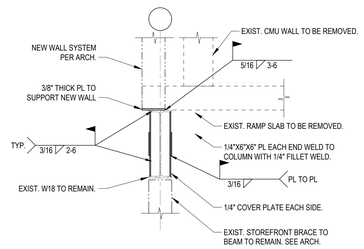
64 S-204 **SECTION** 3/4" = 1'-0"



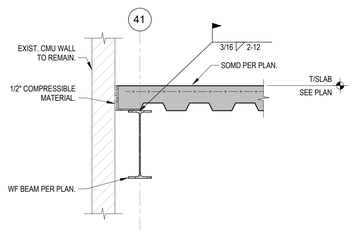
65 S-204 **SECTION** 3/4" = 1'-0"



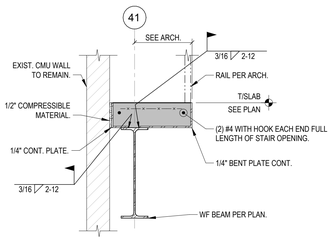
66 S-204 **SECTION** 3/4" = 1'-0"



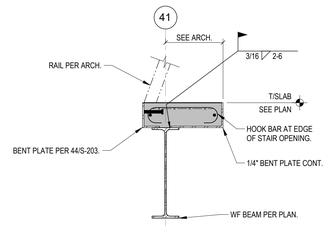
67 S-204 **SECTION** 3/4" = 1'-0"



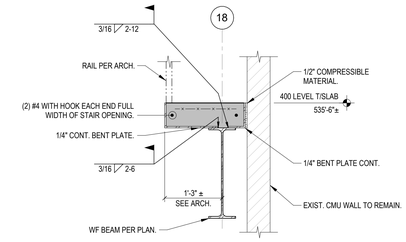
68 S-204 **SECTION** 3/4" = 1'-0"



69 S-204 **SECTION** 3/4" = 1'-0"



70 S-204 **SECTION** 3/4" = 1'-0"



71 S-204 **SECTION** 3/4" = 1'-0"

NO.	DATE	DESCRIPTION
1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
2	4/28/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

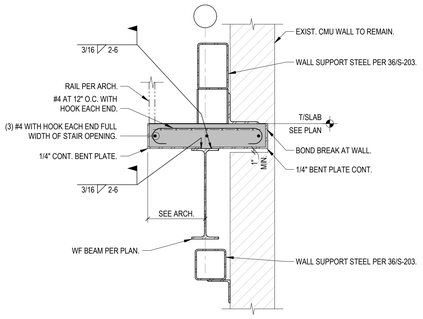
main 513.621.6211
kzf.com

STATE OF OHIO · JASON M. JONES · E-66114 · REGISTERED PROFESSIONAL ENGINEER · 4/28/26

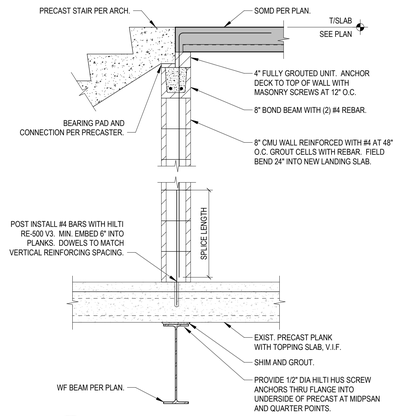
DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

FRAMING DETAILS

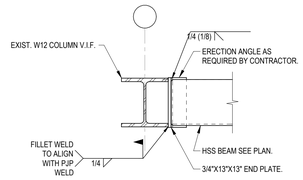
DRAWING NUMBER **S-204** ISSUE **2**



72 S-205 **SECTION**
3/4" = 1'-0"

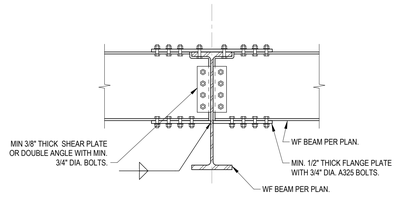


73 S-205 **SECTION**
3/4" = 1'-0"



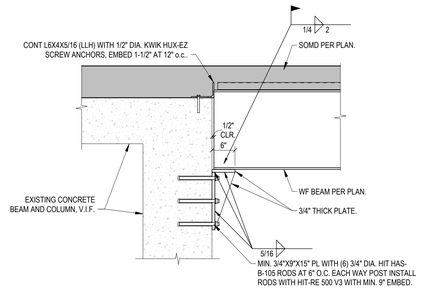
PERIMETER HSS GIRT TO COLUMN

74 S-205 **SECTION**
3/4" = 1'-0"



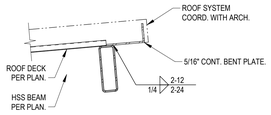
MOMENT CONNECTION AT ESCALATOR CANTILEVER

75 S-205 **SECTION**
3/4" = 1'-0"



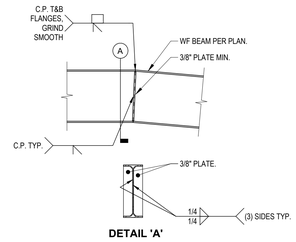
SEATED BEAM

76 S-205 **SECTION**
3/4" = 1'-0"



HEADHOUSE ROOF EDGE

77 S-205 **SECTION**
3/4" = 1'-0"



DETAIL 'A'

78 S-205 **SECTION**
3/4" = 1'-0"

NO.	DATE	DESCRIPTION
2	4/29/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

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700 Broadway Street
Cincinnati, OH 45202

main 513.621.6211
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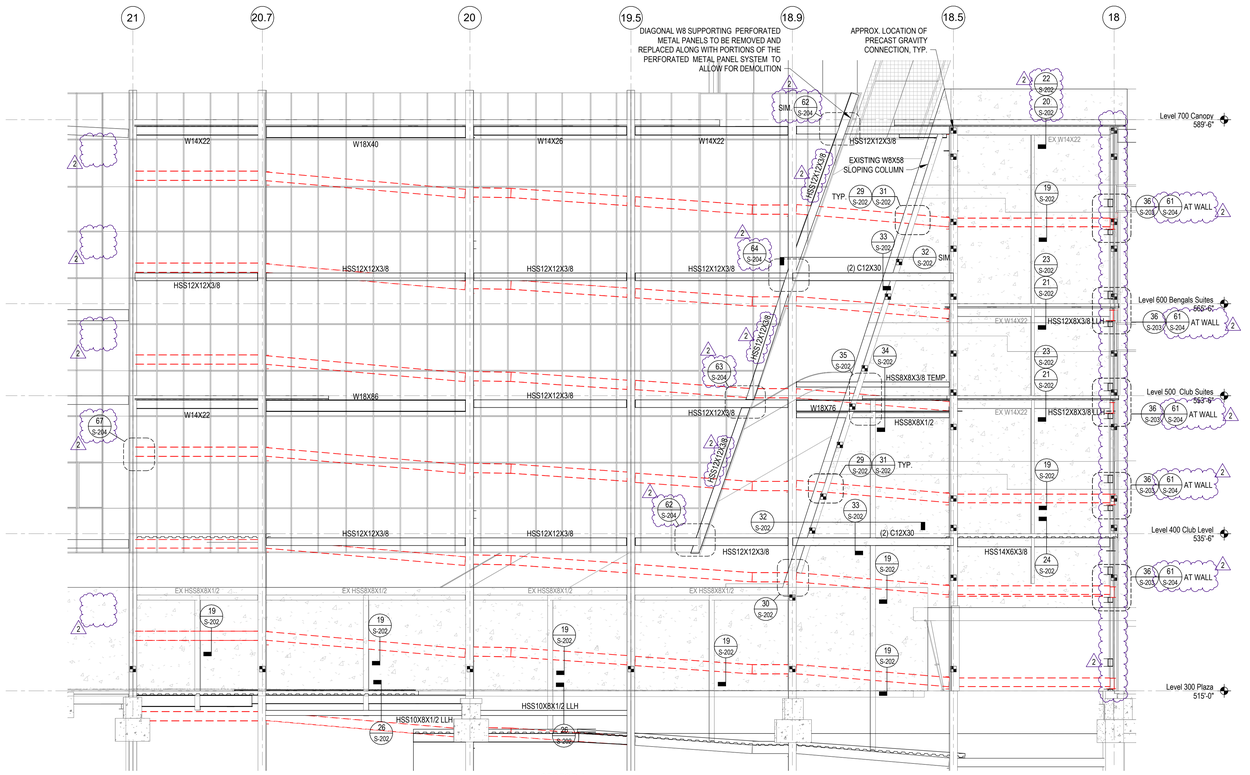
STATE OF OHIO
JASON M. JONES
E-66114
REGISTERED
PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/24/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

FRAMING DETAILS

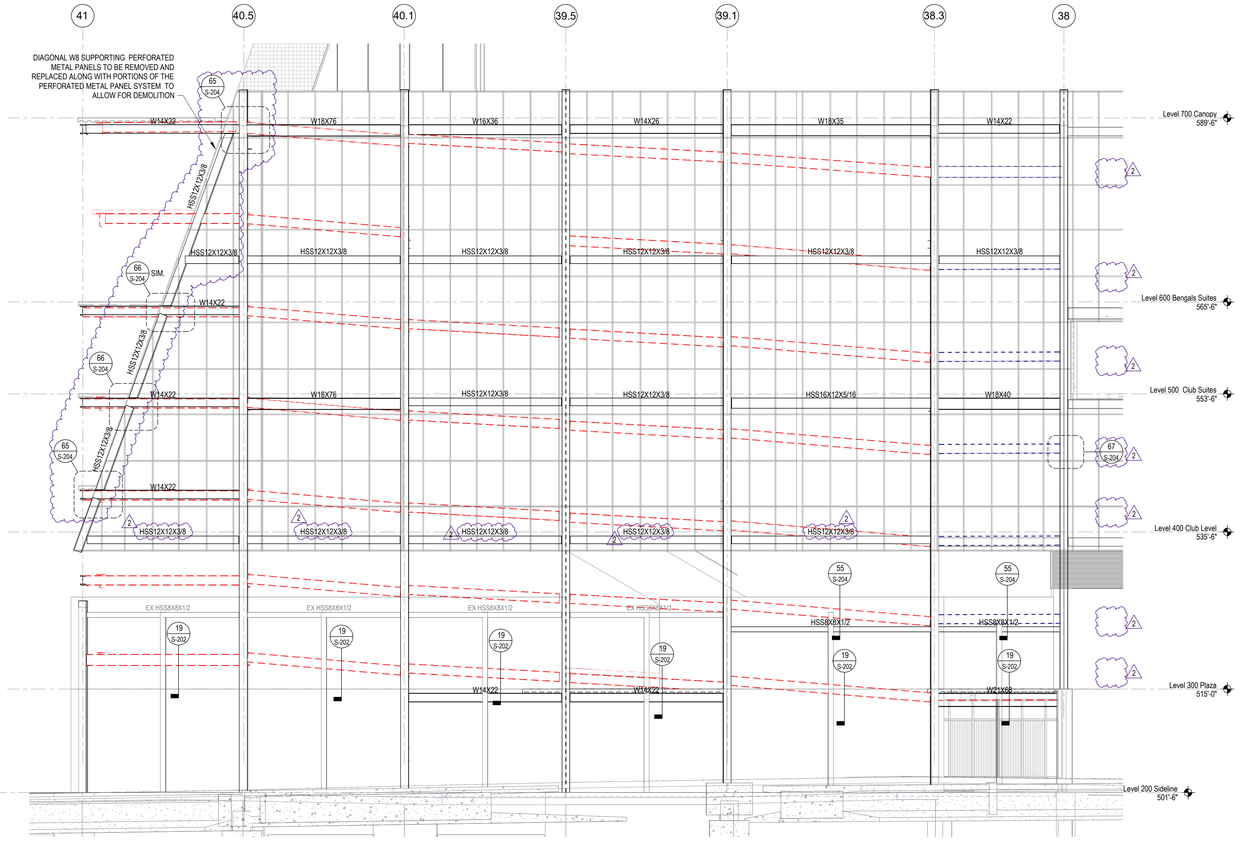
DRAWING NUMBER S-205 ISSUE 2



SECTOR 4

1 / S-301 FRAMING ELEVATION

1/8" = 1'-0"



SECTOR 9

2 / S-301 FRAMING ELEVATION

1/8" = 1'-0"

NO.	DATE	DESCRIPTION
1	4/17/2026	STRUCTURAL AND DEMOLITION PACKAGE
2	4/28/2026	ADDENDUM 01

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Tower

1 Paycor Stadium, Cincinnati, OH 45202, United States

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

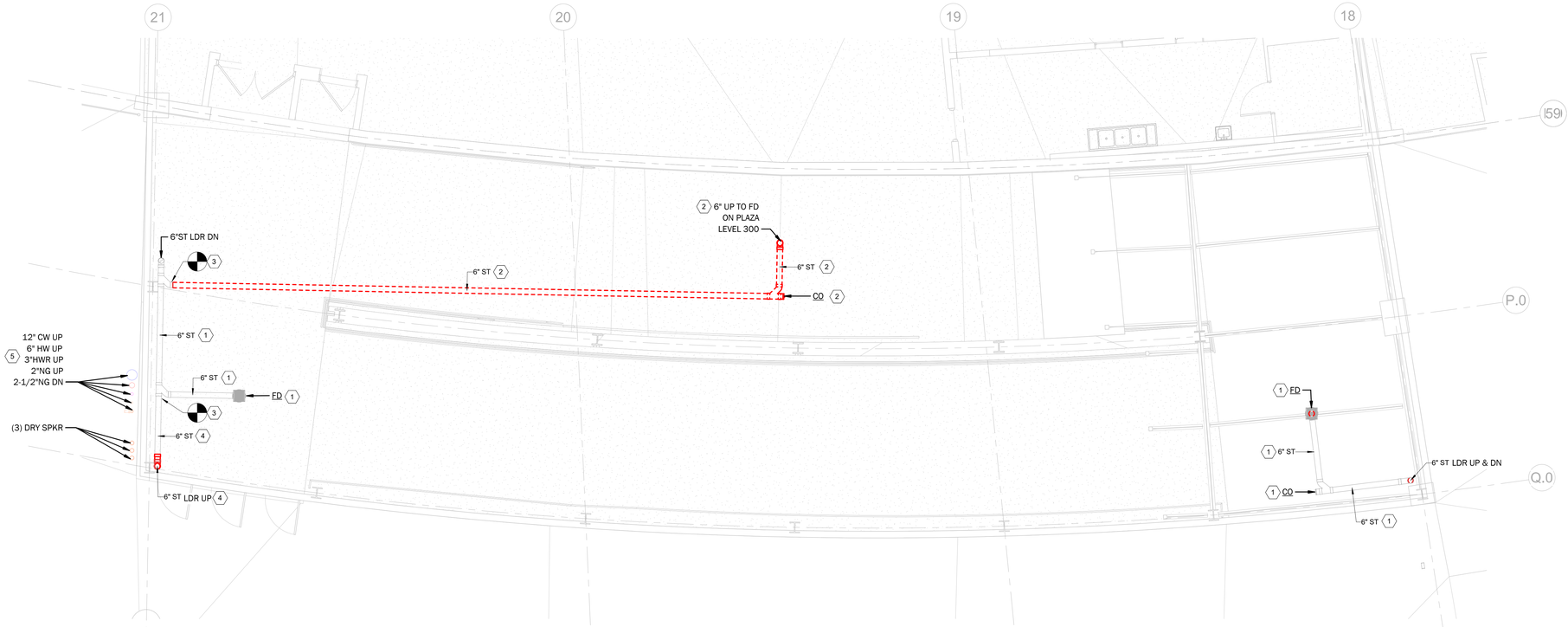
main 513.621.6211
kzf.com

STATE OF OHIO
JASON M. JONES
E-66114
REGISTERED
PROFESSIONAL ENGINEER
4/28/2026

DESIGNED	COMM. NO.
M. Hall	8445.01
DRAWN	DATE
J. Holman	04/17/26
CHECKED	PROJ. MGR.
J. Jones	L. Wang

FRAMING ELEVATIONS

DRAWING NUMBER	ISSUE
S-301	2

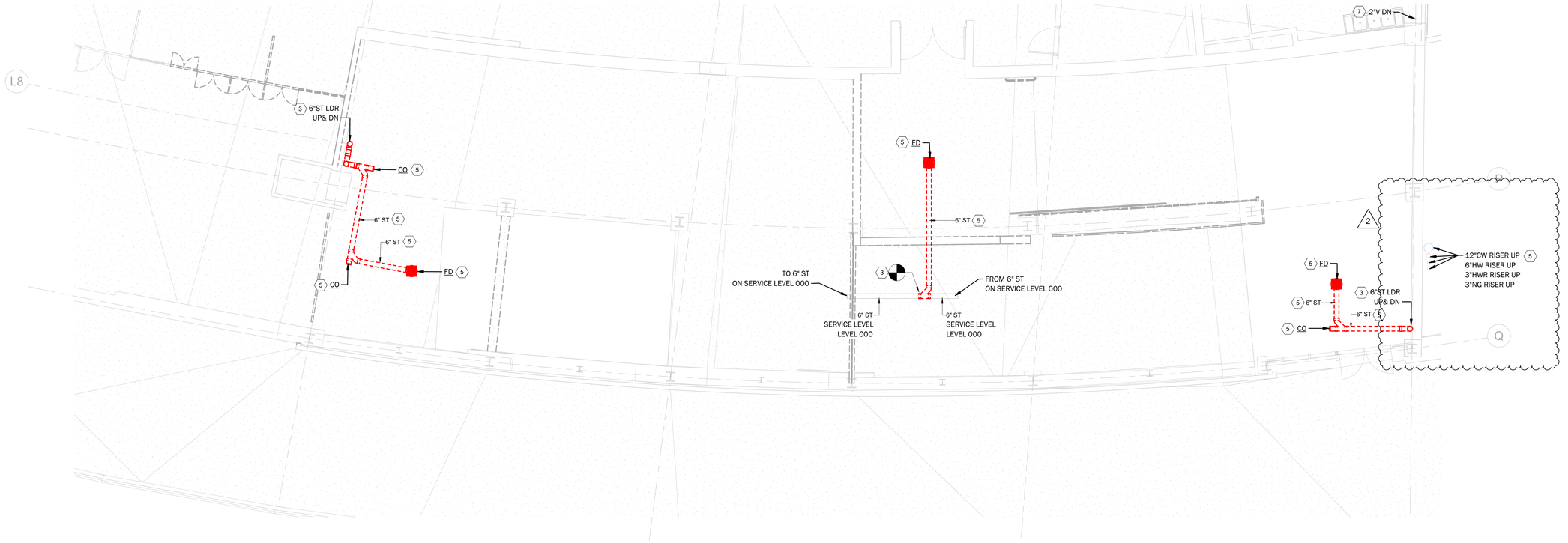


PARTIAL PLAN - SECTOR 4

SCALE: 3/16" = 1'-0"

NORTH

1 P100



PARTIAL PLAN - SECTOR 9

SCALE: 3/16" = 1'-0"

NORTH

2 P100

DRAWING NOTES

DRAWING P100

1 EXISTING STORM FLOOR DRAIN LOCATED ON SIDELINE LEVEL 200 SOUTHEAST RAMP TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE PLAZA LEVEL ABOVE AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN.

3 REMOVE STORM PIPING BACK TO THIS POINT.

4 DEMOLISH EXISTING STORM RISER PIPING DOWN FROM THE FLOORS ABOVE BACK TO THIS POINT AND PROVIDE PERMANENT CAP.

2 5 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE SIDELINE LEVEL AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

6 PROVIDE PROTECTION OF EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND NATURAL GAS PIPING RISER WITH REMOVAL OF STRUCTURE WALL LOCATED AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

7 2"VENT DOWN AT THIS APPROXIMATE LOCATION TO REMAIN. COORDINATE WITH WALL DEMOLITION IN THIS AREA THAT VENT IS NOT IMPACTED.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

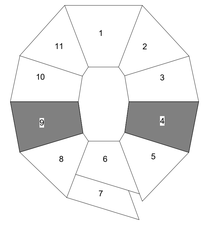
APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

C THIS BUILDING IS PROTECTED BY FLOOD PROTECTION SYSTEMS INCLUDING FLOOD WALLS AND A GENERATOR-SUPPLIED DEEP WELL PUMPING SYSTEM IN COMPLIANCE WITH ORC 1333.15(E)(2). THE WATER LEVEL IS MAINTAINED TO 470' WITHIN THE FACILITY. THE FLOODPLAIN ELEVATION IS 498'. THE LOWEST FLOOR ELEVATION IN THIS PROJECT SPACE IS 480'. THEREFORE, THERE ARE NO SPECIAL INSTALL REQUIREMENTS.

D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.



N

0 4' 8' 12'

SCALE: 3/16"=1'-0"

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

DAVIES engineering group

DaviesEngineeringGroup.com ~ 513-503-2373

Cincinnati, OH ~ Fort Worth, TX ~ Elizabethtown, PA ~ Leavenworth, IN

KZF DESIGN Designing Better Futures

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700 Broadway Street
Cincinnati, OH 45202

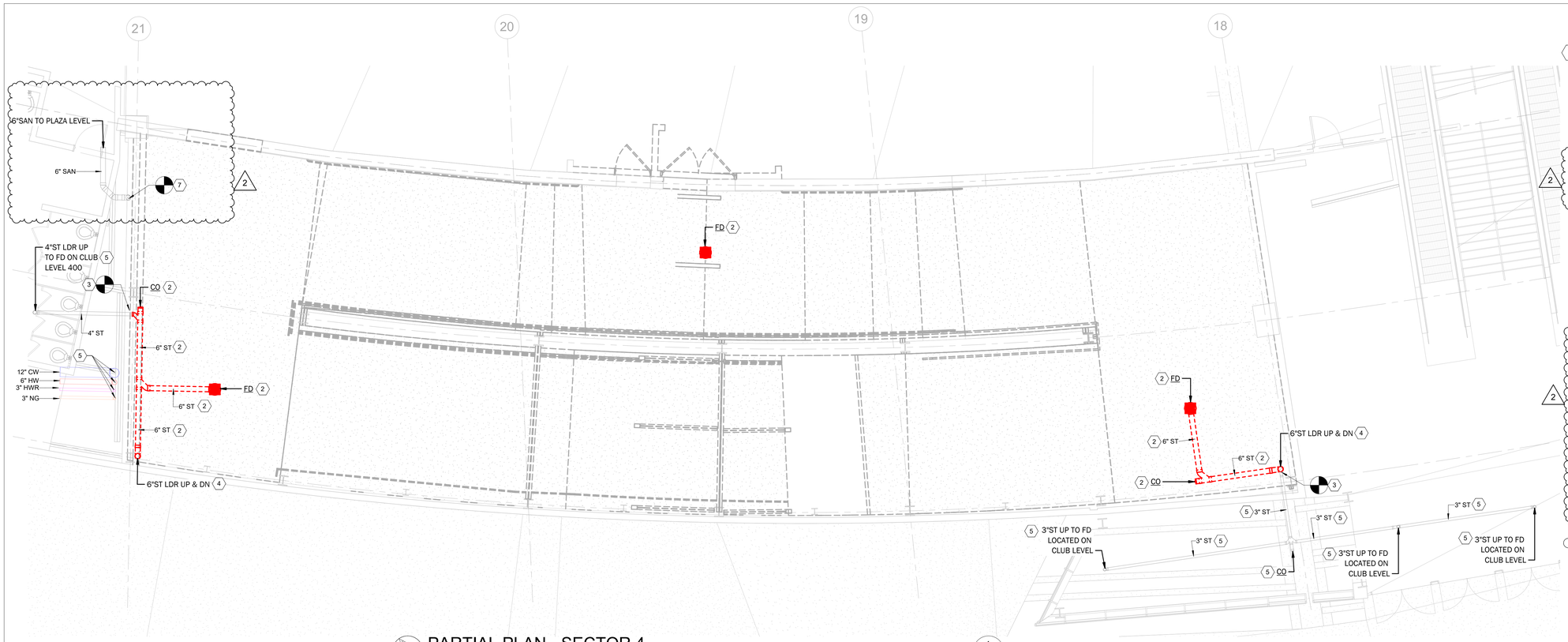
main 513.621.6211
kzf.com

STATE OF OHIO PHILIP J. ROSEMANN 75602 REGISTERED PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

PLUMBING PARTIAL PLANS LEVEL 200 DEMOLITION

DRAWING NUMBER	ISSUE
P100	2

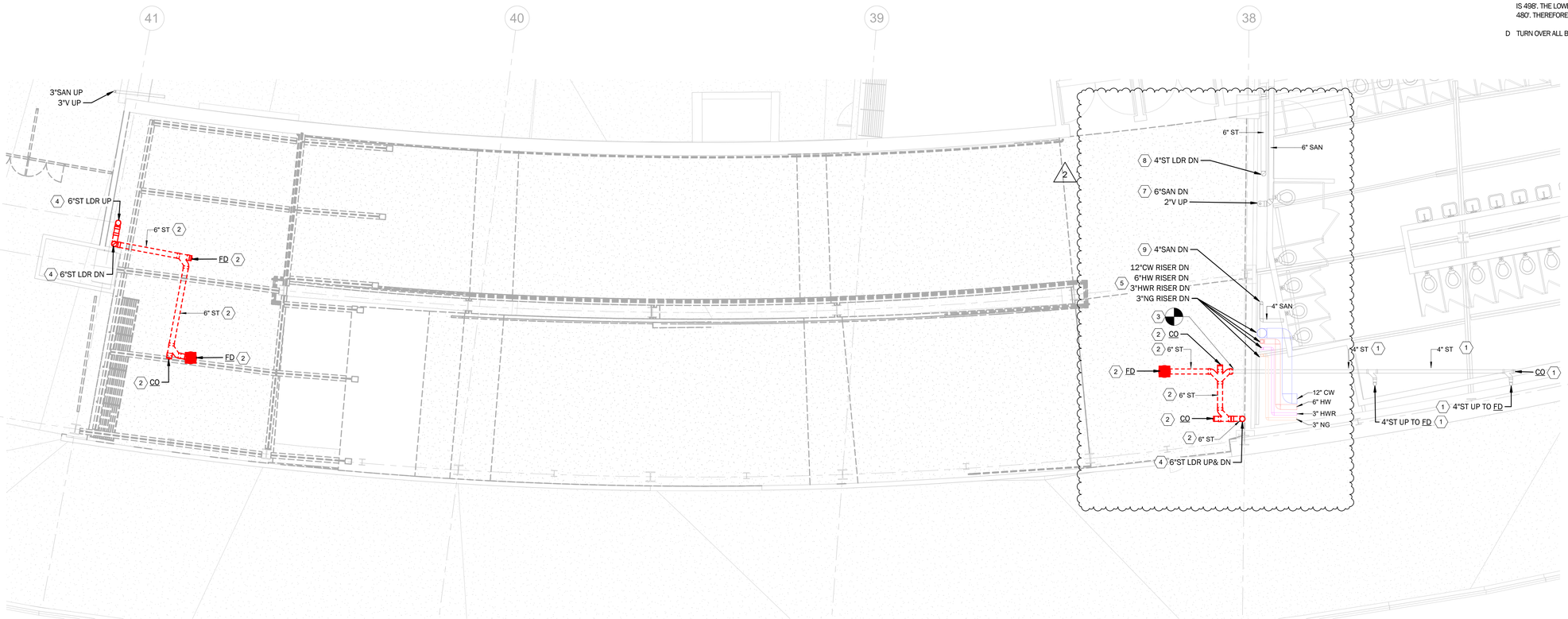


PARTIAL PLAN - SECTOR 4

SCALE: 3/16" = 1'-0"

NORTH

1 P101



PARTIAL PLAN - SECTOR 9

SCALE: 3/16" = 1'-0"

NORTH

2 P101

DRAWING NOTES

DRAWING P101

1 EXISTING STORM PIPING DOWN FROM THE FLOOR DRAIN LOCATED ON CLUB LEVEL 400 ON THE SOUTHWEST AREA TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE PLAZA LEVEL AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

3 REMOVE STORM PIPING BACK TO THIS POINT.

4 DEMOLISH EXISTING STORM RISER PIPING DOWN FROM THE FLOORS ABOVE BACK TO THIS POINT AND PROVIDE PERMANENT CAP.

5 EXISTING STORM PIPING DOWN FROM THE FLOOR DRAIN LOCATED ON CLUB LEVEL 400 ON THE SOUTHEAST AREA TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

6 PROVIDE PROTECTION OF EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND NATURAL GAS PIPING RISER WITH REMOVAL OF STRUCTURE WALL LOCATED AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

7 PROVIDE PROTECTION OF EXISTING 6" SANITARY AND 2" VENT PIPING AT THIS APPROXIMATE LOCATION WITH REMOVAL OF STRUCTURE WALL AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

8 PROVIDE PROTECTION STORM PIPING AT THIS APPROXIMATE LOCATION WITH REMOVAL OF STRUCTURE WALL AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

9 PROVIDE PROTECTION OF EXISTING 4" SANITARY PIPING AT THIS APPROXIMATE LOCATION WITH REMOVAL OF STRUCTURE WALL AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

C THIS BUILDING IS PROTECTED BY FLOOD PROTECTION SYSTEMS INCLUDING FLOOD WALLS AND A GENERATOR-SUPPLIED DEEP WELL PUMPING SYSTEM IN COMPLIANCE WITH ORC 1333.15(E)(2). THE WATER LEVEL IS MAINTAINED TO 470' WITHIN THE FACILITY. THE FLOODPLAIN ELEVATION IS 498'. THE LOWEST FLOOR ELEVATION IN THIS PROJECT SPACE IS 480'. THEREFORE, THERE ARE NO SPECIAL INSTALL REQUIREMENTS.

D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

DAVIES engineering group
DaviesEngineeringGroup.com • 513-563-3375
Cincinnati, OH • Fort Worth, TX • Elizabethtown, PA • Lawrenceburg, IN

KZF DESIGN
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Cincinnati, OH 45202

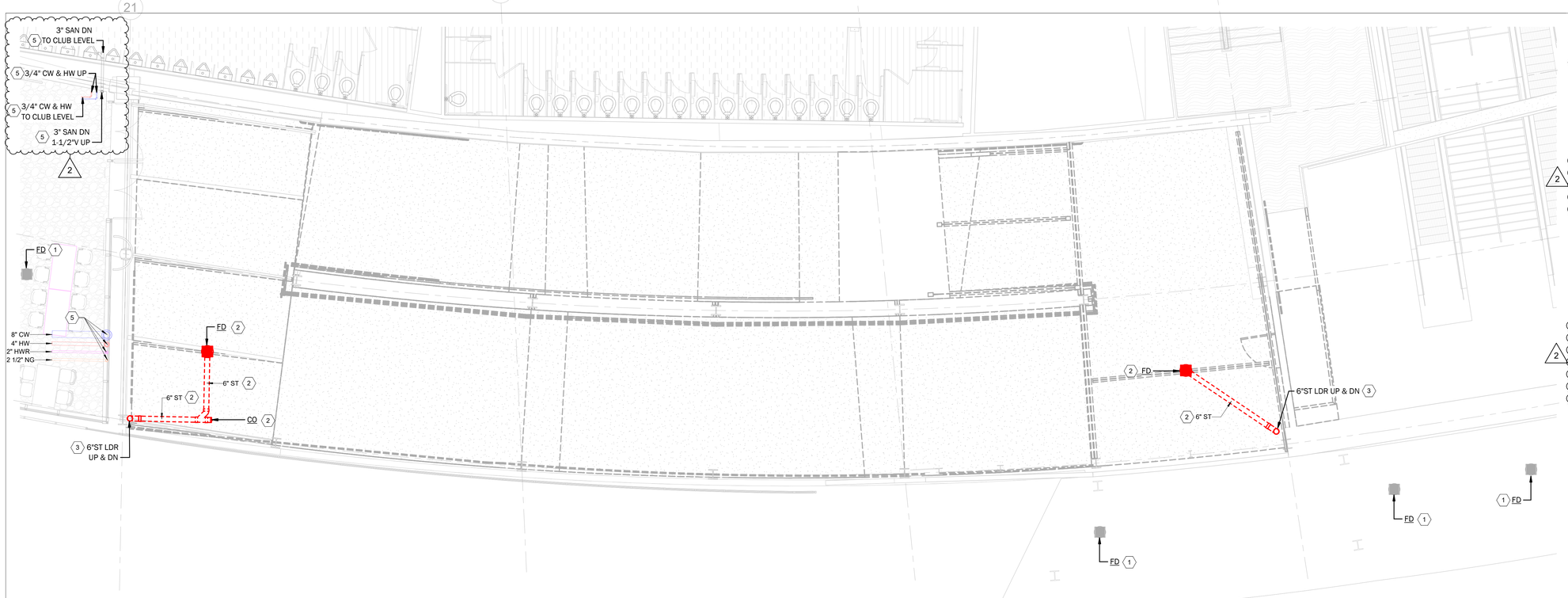
main 513.621.6211
kzf.com

STATE OF OHIO
TIMOTHY T. CROSSMAN
75602
REGISTERED
PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

PLUMBING PARTIAL PLANS LEVEL 300 DEMOLITION

DRAWING NUMBER	ISSUE
P101	2

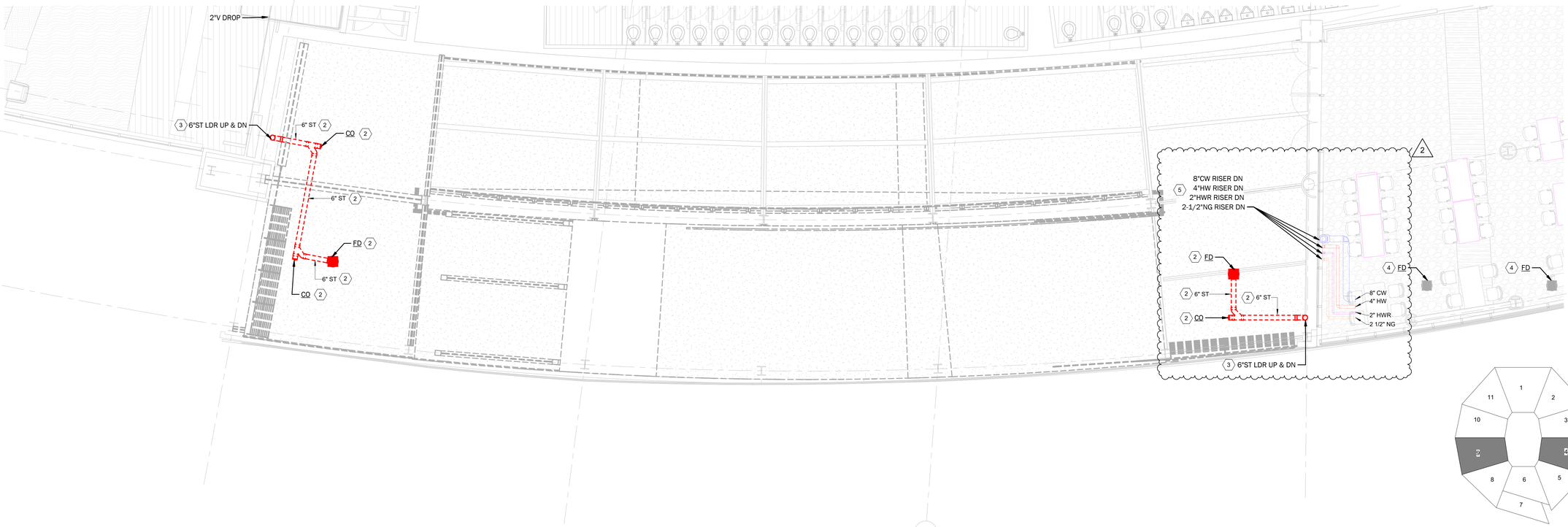


PARTIAL PLAN - SECTOR 4

SCALE: 3/16" = 1'-0"

NORTH

1 P102



PARTIAL PLAN - SECTOR 9

SCALE: 3/16" = 1'-0"

NORTH

2 P102

DRAWING NOTES

DRAWING P102

1 EXISTING STORM FLOOR DRAIN LOCATED ON CLUB LEVEL 400 ON THE SOUTHEAST AREA TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE CLUB LEVEL AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

3 DEMOLISH EXISTING STORM RISER PIPING DOWN FROM THE FLOORS ABOVE BACK TO THIS POINT AND PROVIDE PERMANENT CAP.

4 EXISTING STORM FLOOR DRAIN LOCATED ON CLUB LEVEL 400 ON THE SOUTHWEST AREA TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

5 PROVIDE PROTECTION OF EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND NATURAL GAS PIPING RISER WITH REMOVAL OF STRUCTURE WALL LOCATED AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

6 PROVIDE PROTECTION OF EXISTING SANITARY AND WATER LINES LOCATED ON COLUMN 21 & L PRIOR TO REMOVAL OF STRUCTURE LOCATED ON CLUB LEVEL 400.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

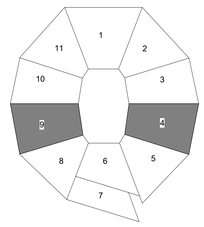
APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

C THIS BUILDING IS PROTECTED BY FLOOD PROTECTION SYSTEMS INCLUDING FLOOD WALLS AND A GENERATOR-SUPPLIED DEEP WELL PUMPING SYSTEM IN COMPLIANCE WITH ORC 1333.15(E)(2). THE WATER LEVEL IS MAINTAINED TO 470' WITHIN THE FACILITY. THE FLOODPLAIN ELEVATION IS 498'. THE LOWEST FLOOR ELEVATION IN THIS PROJECT SPACE IS 480'. THEREFORE, THERE ARE NO SPECIAL INSTALL REQUIREMENTS.

D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.



0 4' 8' 12'

SCALE: 3/16"=1'-0"

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

DAVIES engineering group
DaviesEngineeringGroup.com ~ 513-503-2373
Cincinnati, OH ~ Fort Worth, TX ~ Elizabethtown, PA ~ Leavenworth, KS

KZF DESIGN
Designing Better Futures

KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

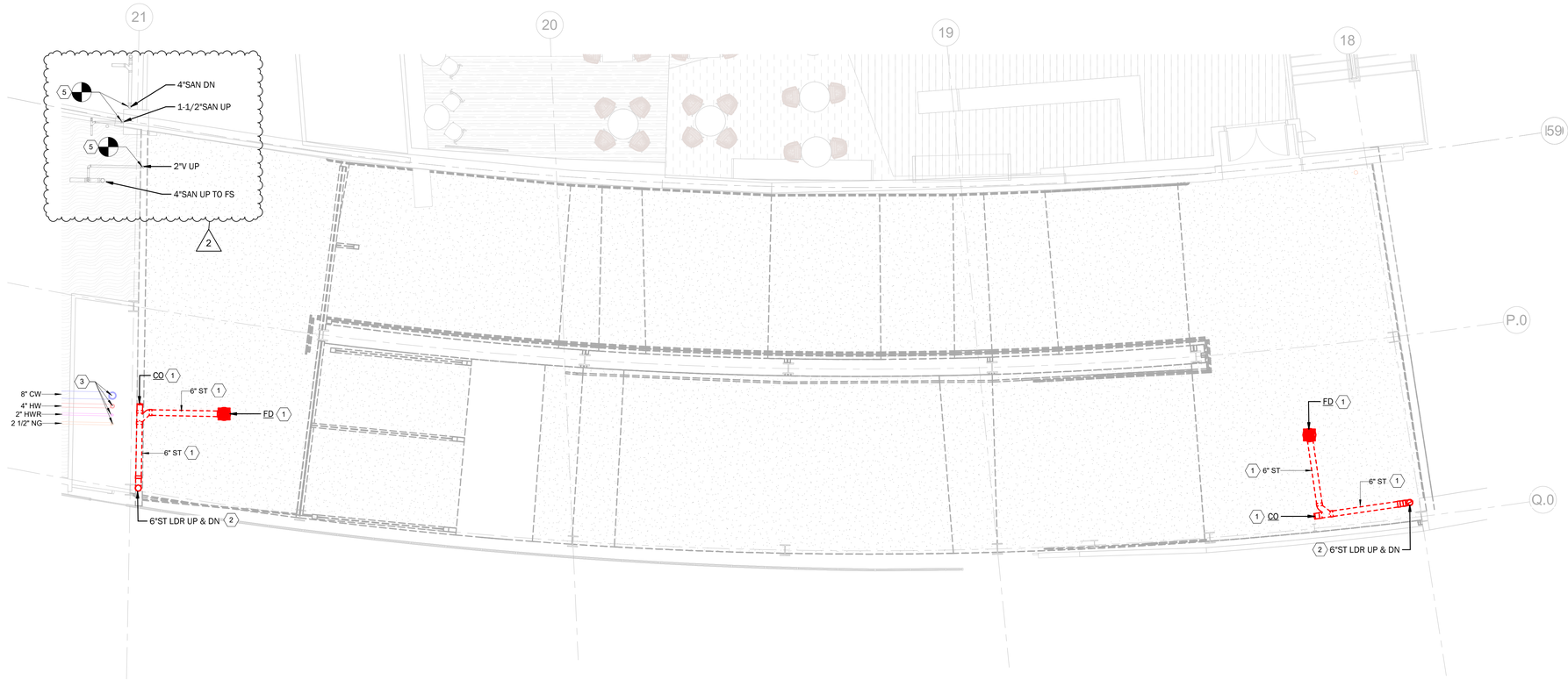
main 513.621.6211
kzf.com

STATE OF OHIO
RICHARD A. JOHNSON
75602
REGISTERED
PROFESSIONAL ENGINEER

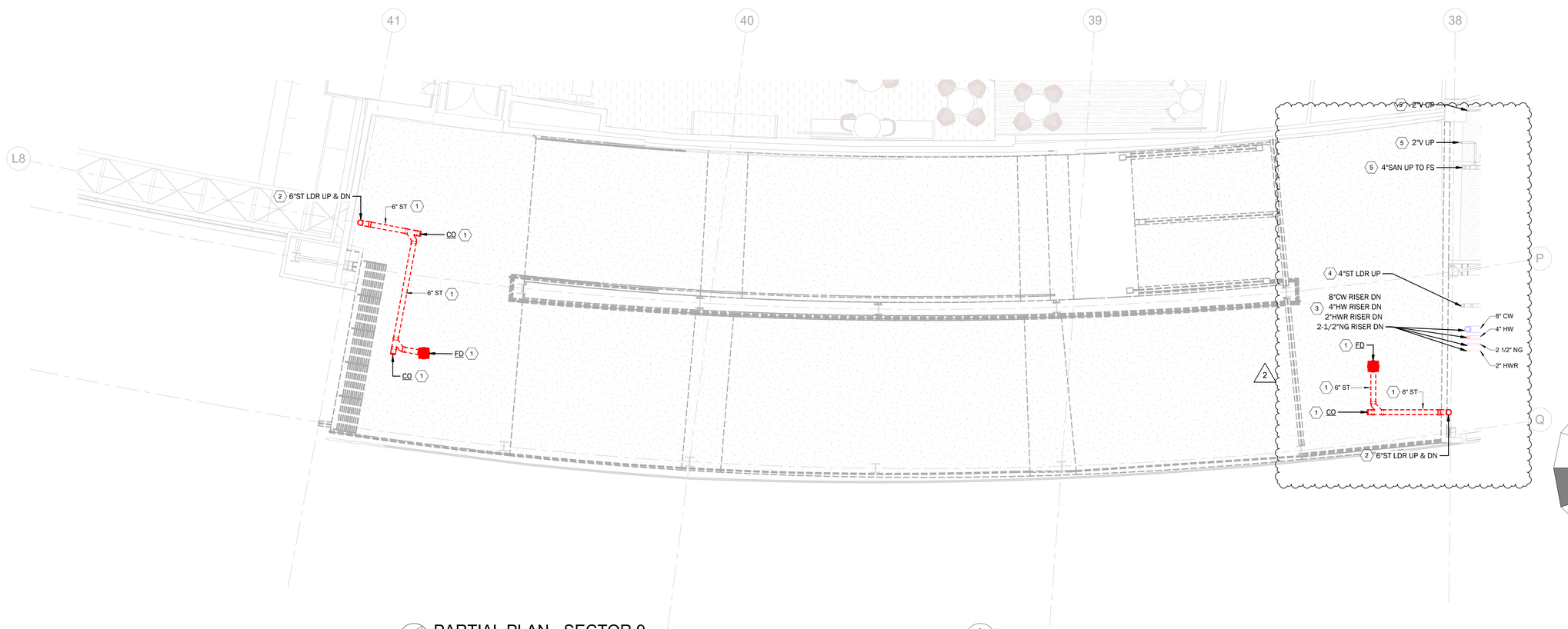
DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

PLUMBING PARTIAL PLANS LEVEL 400 DEMOLITION

DRAWING NUMBER	ISSUE
P102	2



PARTIAL PLAN - SECTOR 4
SCALE: 3/16" = 1'-0"
NORTH
1 P103



PARTIAL PLAN - SECTOR 9
SCALE: 3/16" = 1'-0"
NORTH
2 P103

SCALE: 3/16"=1'-0"

DRAWING NOTES

DRAWING P103

2
1 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE CLUB LEVEL AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

2 DEMOLISH EXISTING STORM RISER PIPING DOWN FROM THE FLOORS ABOVE BACK TO THIS POINT AND PROVIDE PERMANENT CAP.

2
3 PROVIDE PROTECTION OF EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND NATURAL GAS PIPING RISER WITH REMOVAL OF STRUCTURE WALL LOCATED AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

4 PROVIDE PROTECTION OF STORM PIPING AT THIS APPROXIMATE LOCATION WITH REMOVAL OF STRUCTURE WALL AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

5 PROVIDE PROTECTION OF EXISTING SANITARY AND VENT PIPING AT THIS APPROXIMATE LOCATION WITH REMOVAL OF STRUCTURE WALL AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

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D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

DAVIES engineering group
DaviesEngineeringGroup.com ~ 513-550-2373
Cincinnati, OH ~ Fort Worth, TX ~ Elizabethtown, PA ~ Leesburg, VA

KZF DESIGN
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KZF DESIGN INC.
700 Broadway Street
Cincinnati, OH 45202

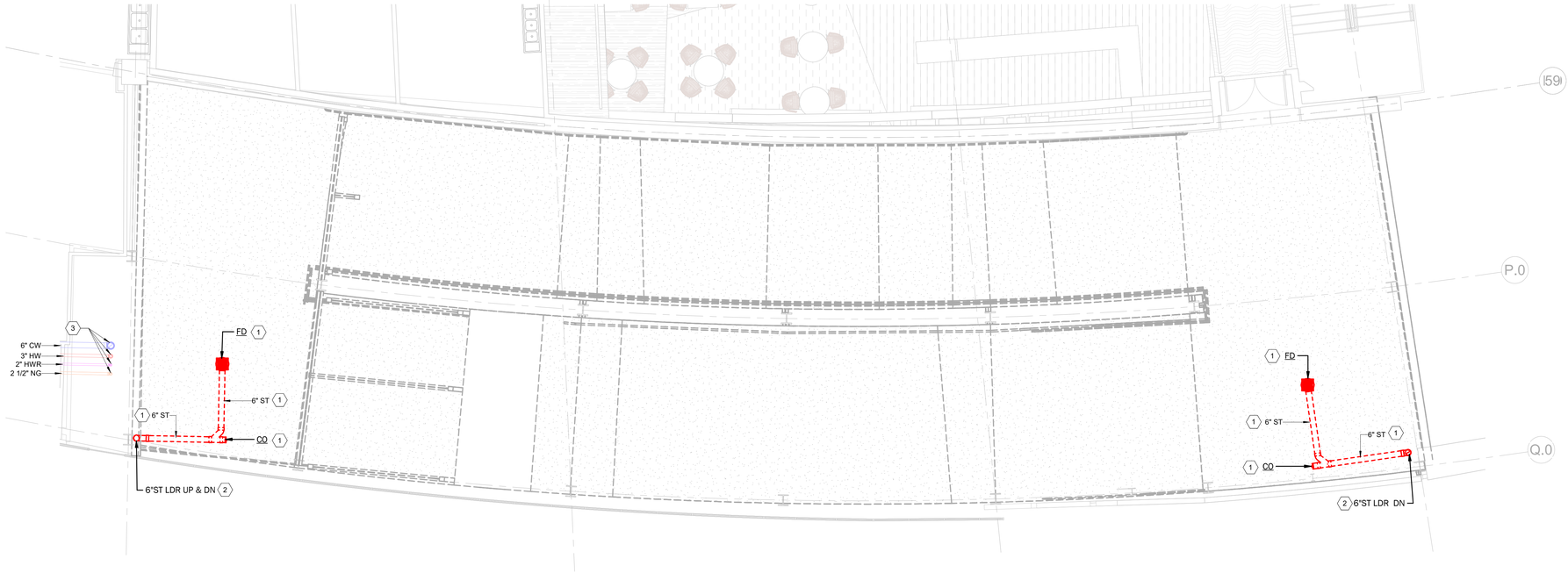
main 513.621.6211
kzf.com

STATE OF OHIO
THOMAS T. CONNOLLY
75602
REGISTERED
PROFESSIONAL ENGINEER

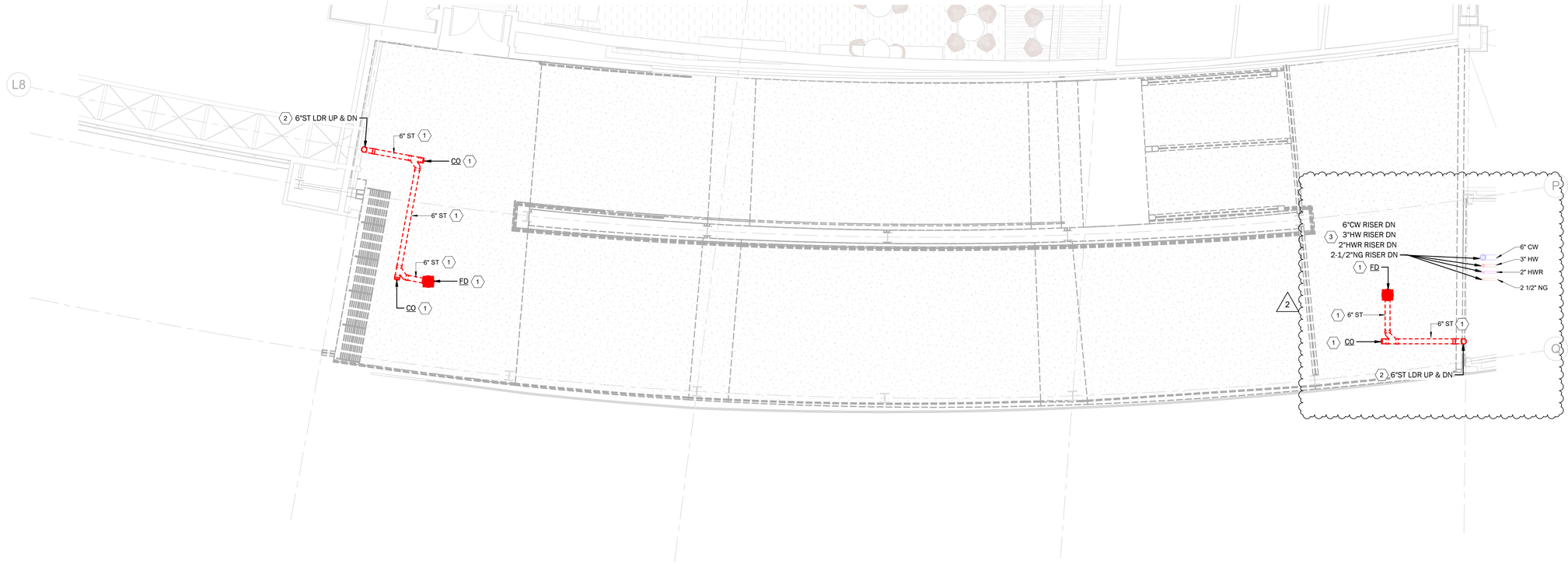
DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

PLUMBING PARTIAL PLANS LEVEL 500 DEMOLITION

DRAWING NUMBER	ISSUE
P103	2



PARTIAL PLAN - SECTOR 4
SCALE: 3/16" = 1'-0"
NORTH
1 P104



PARTIAL PLAN - SECTOR 9
SCALE: 3/16" = 1'-0"
NORTH
2 P104

DRAWING NOTES

DRAWING P104

2 1 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE CLUB LEVEL AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

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2 3 PROVIDE PROTECTION OF EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND NATURAL GAS PIPING RISER WITH REMOVAL OF STRUCTURE WALL LOCATED AT THIS APPROXIMATE LOCATION DURING THE DEMOLITION PHASE OF THIS PROJECT.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

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D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers
CINCINNATI, OH

DAVIES engineering group
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Cincinnati, OH · Fort Worth, TX · Elizabethtown, PA · Leavenworth, KS

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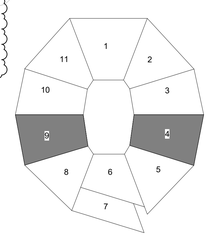
700 Broadway Street
Cincinnati, OH 45202

main 513.621.6211
kzf.com

STATE OF OHIO
RYAN A. JOHNSON
75602
REGISTERED
PROFESSIONAL ENGINEER



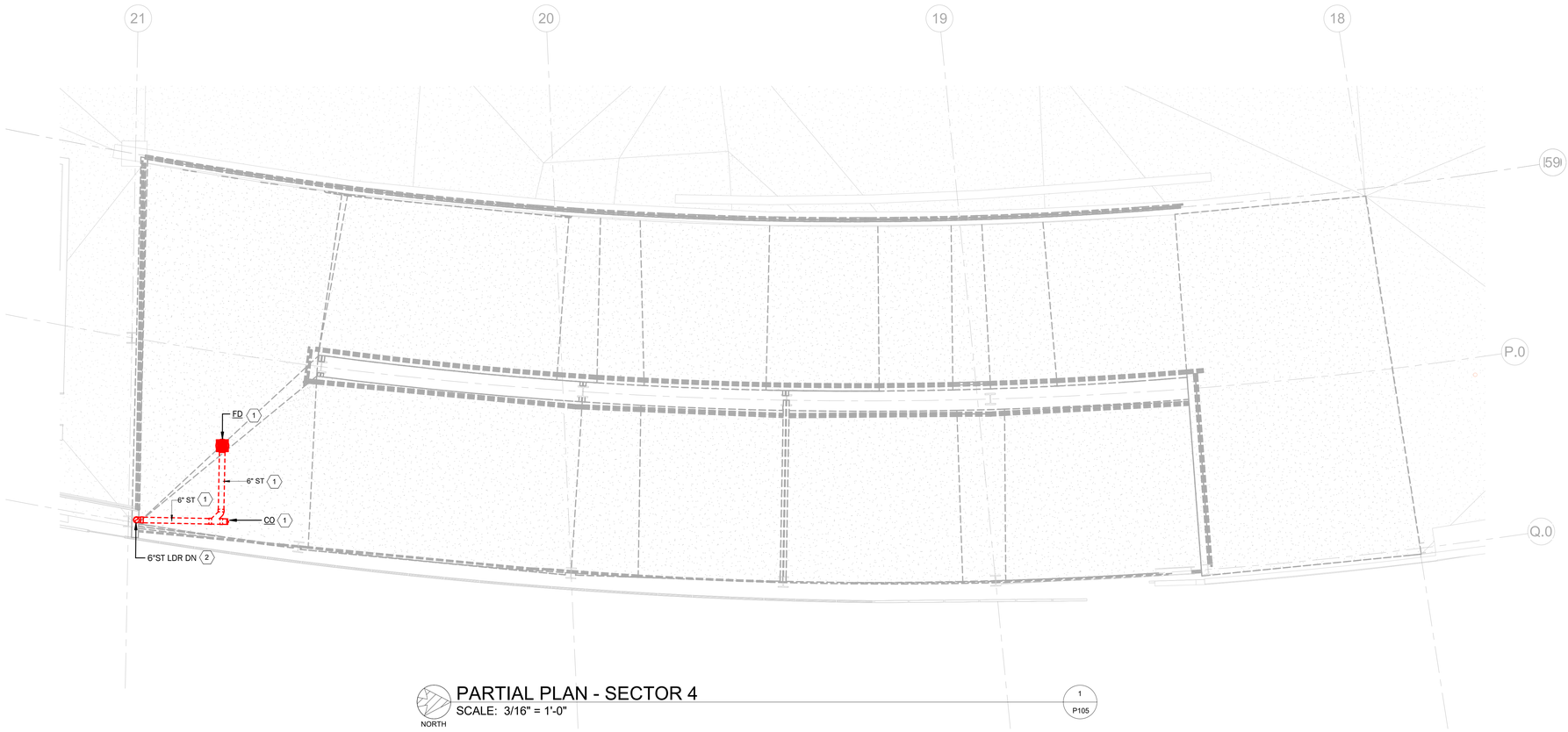
0 4' 8' 12'
SCALE: 3/16"=1'-0"

DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

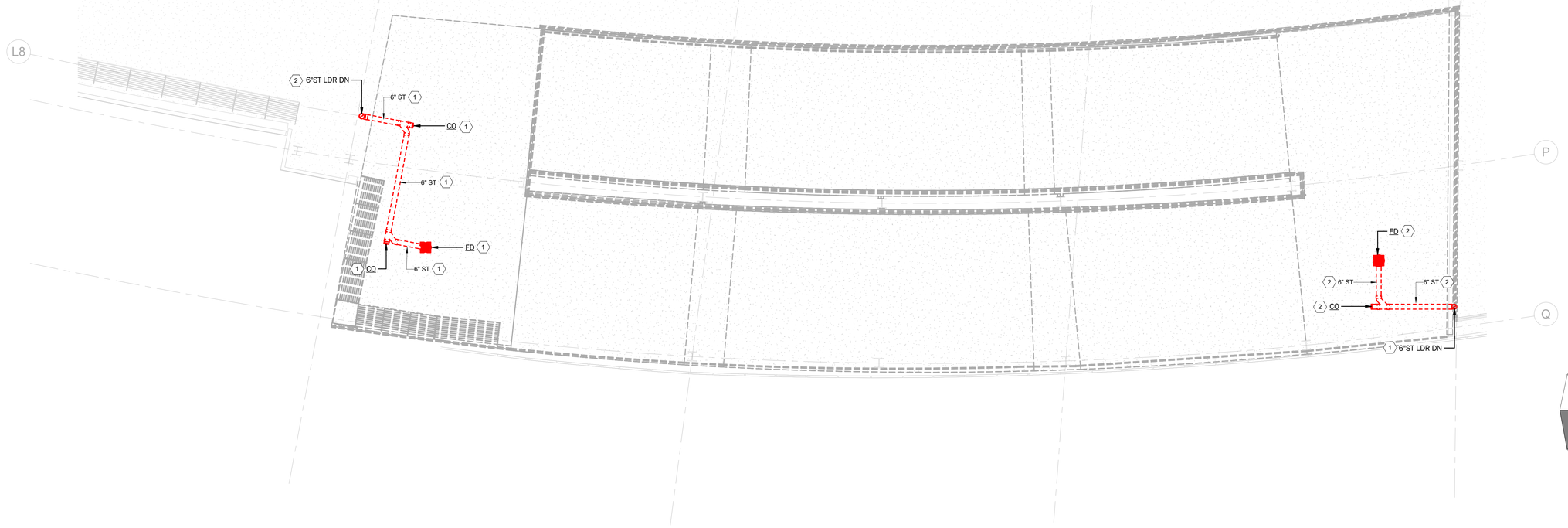
PLUMBING PARTIAL PLANS LEVEL 600 DEMOLITION

DRAWING NUMBER ISSUE

P104 2



PARTIAL PLAN - SECTOR 4
SCALE: 3/16" = 1'-0"
NORTH
1 P105



PARTIAL PLAN - SECTOR 9
SCALE: 3/16" = 1'-0"
NORTH
2 P105

DRAWING NOTES

DRAWING P105

2

1 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED ON THE CLUB LEVEL AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

2 DEMOLISH EXISTING STORM RISER PIPING DOWN FROM THE FLOORS ABOVE BACK TO THIS POINT AND PROVIDE PERMANENT CAP.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

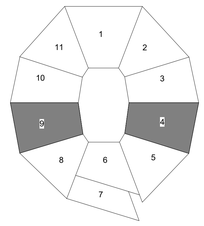
APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

C THIS BUILDING IS PROTECTED BY FLOOD PROTECTION SYSTEMS INCLUDING FLOOD WALLS AND A GENERATOR SUPPLIED DEEP WELL PUMPING SYSTEM IN COMPLIANCE WITH ORC 1333.15(E)(2). THE WATER LEVEL IS MAINTAINED TO 470' WITHIN THE FACILITY. THE FLOODPLAIN ELEVATION IS 498'. THE LOWEST FLOOR ELEVATION IN THIS PROJECT SPACE IS 480'. THEREFORE, THERE ARE NO SPECIAL INSTALL REQUIREMENTS.

D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.



0 4' 8' 12'
SCALE: 3/16"=1'-0"

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers
CINCINNATI, OH

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DaviesEngineeringGroup.com · 513-550-2375
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STATE OF OHIO
RYAN J. JOHNSON
75602
REGISTERED
PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

PLUMBING PARTIAL PLANS LEVEL 700 DEMOLITION

DRAWING NUMBER	ISSUE
P105	2

DRAWING NOTES

DRAWING P600

1 EXISTING STORM FLOOR DRAIN LOCATED ON CLUB LEVEL 400 ON THE SOUTHEAST AREA TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 REMOVE STORM PIPING BACK TO THIS POINT.

3 EXISTING STORM FLOOR DRAIN LOCATED ON SIDELINE LEVEL 200 SOUTHEAST RAMP TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 4 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

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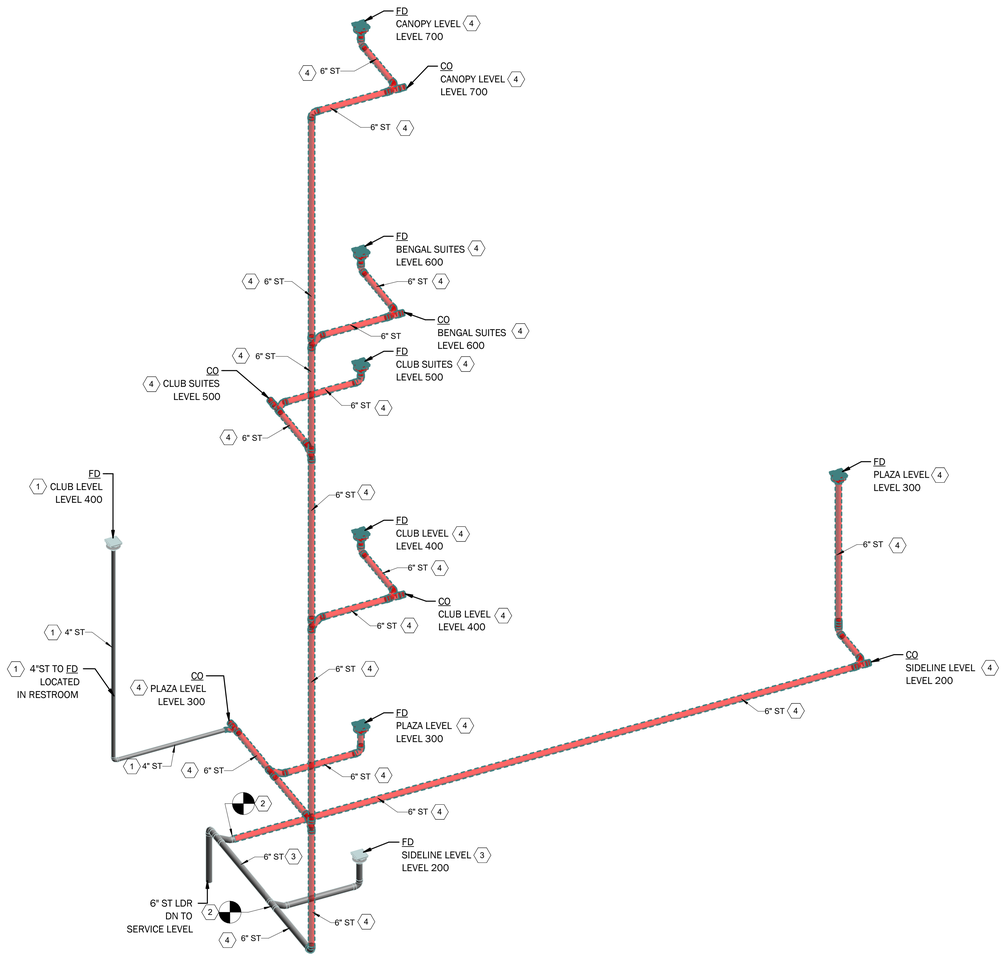
D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.



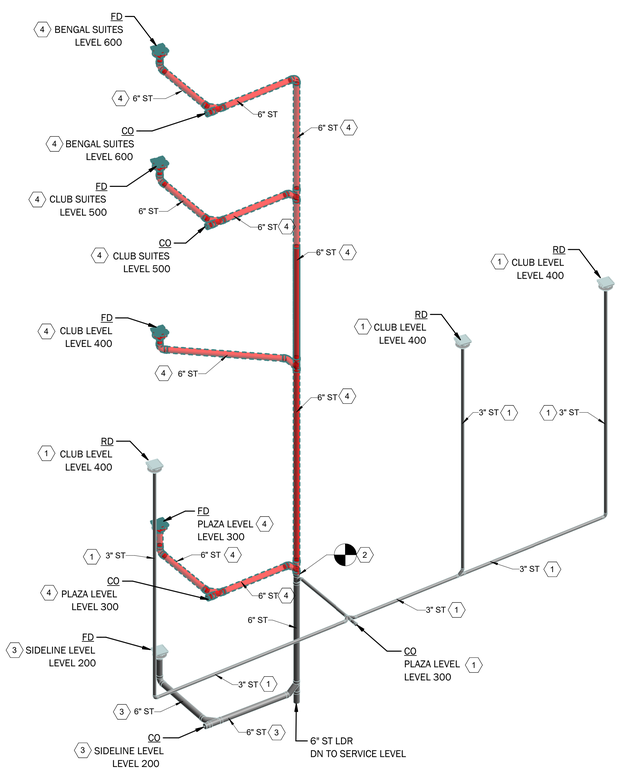


DIAGRAM: STORM RISER - SECTOR 4 RAMP
SCALE:

1
P600

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

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CINCINNATI, OH

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RAJ PATEL JOHNSON
75602
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DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/26/26
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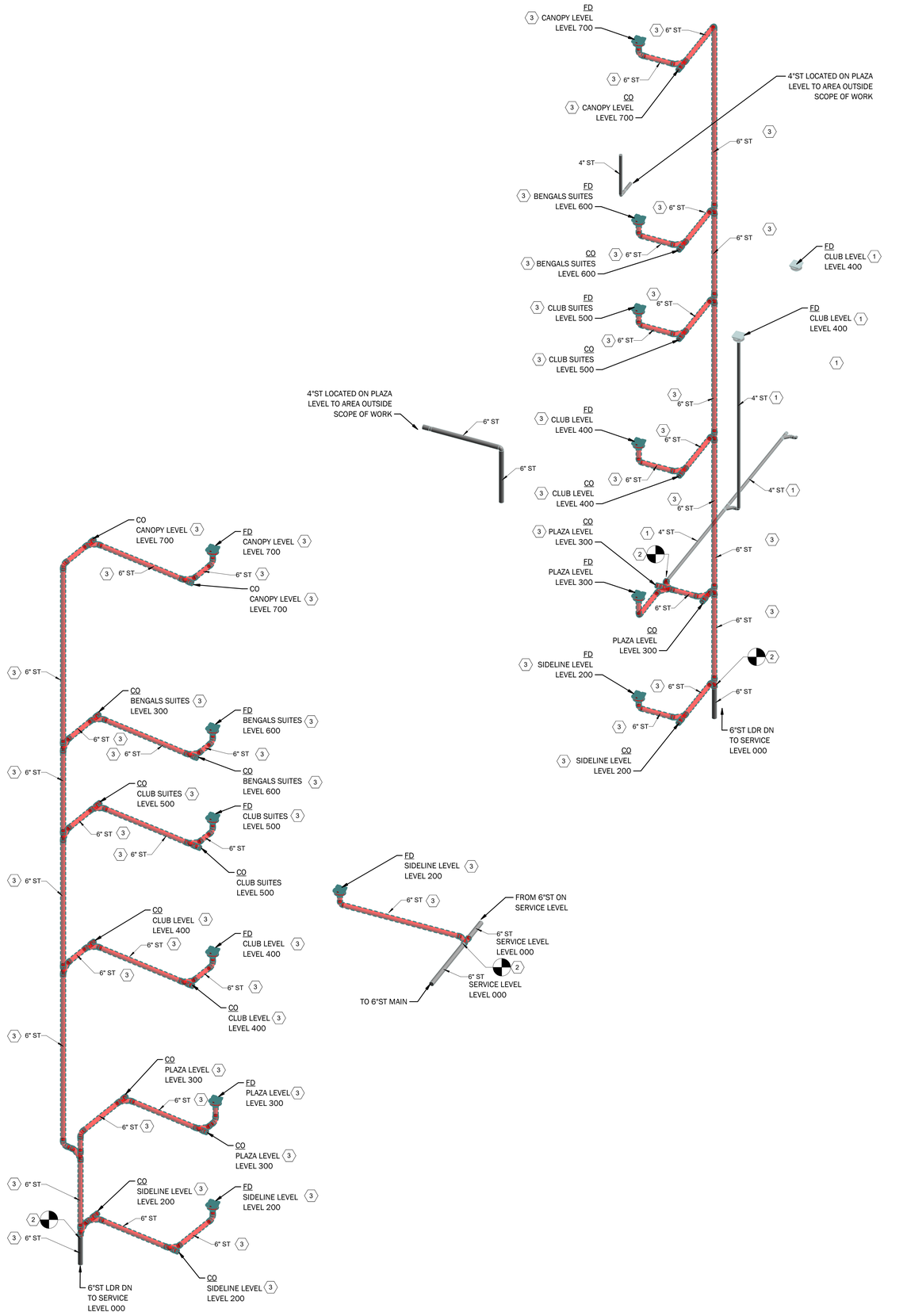
TTC	

PLUMBING STORM RISER DIAGRAM - SOUTHEAST RAMP

DRAWING NUMBER	ISSUE
P600	2



DRAWING NOTES

DRAWING P601

1 EXISTING STORM FLOOR DRAIN LOCATED ON CLUB LEVEL 400 ON THE SOUTHWEST AREA TO REMAIN. COORDINATE REMOVAL OF EXISTING STORM PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING STORM PIPING IN THIS AREA TO FACILITATE NEW ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 REMOVE STORM PIPING BACK TO THIS POINT.

△2 3 DEMOLISH ALL EXISTING STORM PIPING ASSOCIATED WITH THE FLOOR DRAIN LOCATED AT THIS APPROXIMATE LOCATION. DEMOLISH PIPING BACK TO MAIN RISER AS INDICATED AND PROVIDE PERMANENT CAP. NO ABANDONED PIPING LONGER THAN 6" IN LENGTH SHALL REMAIN. RETAIN EXISTING FLOOR DRAIN COVER FOR POTENTIAL REINSTALLATION IN NEW WORK SCOPE.

EQUIPMENT NOTES

CO EXISTING STORM CLEAN OUT

FD EXISTING STORM FLOOR DRAIN

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

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B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING P-001.

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D TURN OVER ALL BENGAL LOGO STORM DRAIN COVERS TO OWNER.

DIAGRAM: STORM RISER - SECTOR 9 RAMP
SCALE:

1
P601

NO	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

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RAJ	250127
DRAWN	DATE
RAJ	03/26/26
CHECKED	PROJ. MGR.
TTC	

PLUMBING STORM RISER DIAGRAM - SOUTHWEST RAMP

DRAWING NUMBER	ISSUE
P601	2

AIR DISTRIBUTION SYSTEM LEGEND

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		NEW DUCTWORK
		EXISTING DUCTWORK
		DUCTWORK TO BE REMOVED
		DUCTWORK TO BE REMOVED
20x12	20x12	DUCT DIMENSIONS STATED ARE THE INSIDE, CLEAR DIMENSION. THE FIRST NUMBER IS THE DIMENSION OF THE SIDE SHOWN. THE SECOND DIMENSION THE DUCT DEPTH.
20x12	20x12	DUCT WITH LINER - DUCT DIMENSIONS STATED ARE THE INSIDE CLEAR DIMENSIONS OF THE INSULATION. ALLOW FOR THE ADDITIONAL SPACE REQUIRED BY INSULATION AND DUCTWORK FOR INSTALLATION.
20x12 20x12	20x12 20x12	SUPPLY DUCT SECTION-(NET, INSIDE AREA). THE FIRST NUMBER IS THE HORIZONTAL DIMENSION IN VIEW, THE SECOND IS THE VERTICAL DIMENSION IN VIEW.
20x12 20x12	20x12 20x12	RETURN DUCT SECTIONS. DUCT DIMENSION AS DEFINED ABOVE.
		DUCT TURNING BEYOND PLANE OF DRAWING (SUPPLY DUCT SHOWN TURNING AWAY FROM VIEW).
		ELBOW, VANED TYPE
		ELBOW, RADIUS TYPE
		SUPPLY AIR OUTLET SOLID SHADING REFLECTS BLANKED THROW
		RETURN OR EXHAUST AIR INLET
		EXHAUST AIR INLET
		SIDEWALL OUTLET
		SIDEWALL INLET
AIR FLOW		FLEXIBLE DUCT - ROUND TAP INTO MAIN WITH SPIN-IN COLLAR & INTEGRAL BALANCING DAMPER.
AIR FLOW		45° RECTANGULAR TAP
		DAMPER IN VERTICAL POSITION - WITH ACCESS DOOR FD = FIRE DAMPER SD = SMOKE DAMPER FS = FIRE/SMOKE DAMPER RD = RADIATION DAMPER
		DAMPER IN HORIZONTAL POSITION - WITH ACCESS DOOR FD = FIRE DAMPER SD = SMOKE DAMPER FS = FIRE/SMOKE DAMPER RD = RADIATION DAMPER
		VOLUME DAMPER, MANUAL (HAND DAMPER)
		DAMPER - SEE SCHEDULE FOR BLADE TYPE AND DAMPER SPECIFICATIONS
		POINT OF CHANGE IN DUCT CONSTRUCTION DUCT PRESSURE RATING: # = RATING IN INCHES W.C.PER SMACNA STANDARDS

IDENTIFICATION TAGS

TERMINAL UNITS: F C H - 1 (TYPE / DUTY; UNIT NO. / HEATING COIL)

TYPE:
- S - SINGLE DUCT
- D - DUAL DUCT
- F - FAN POWERED (SERIES)
- P - FAN POWERED (PARALLEL)
- R - RETROFIT

DUTY:
- C - CONSTANT VOLUME PRESSURE IND.
- S - CONSTANT VOLUME PRESSURE DEP.
- V - VARIABLE VOLUME PRESSURE IND.
- R - VARIABLE VOLUME PRESSURE DEP.

HEATING COIL:
- N - NO HEAT
- H - HOT WATER
- E - ELECTRIC RESISTANCE
- S - STEAM

UNIT NUMBER:
- 1 - (SEE SCHEDULE)

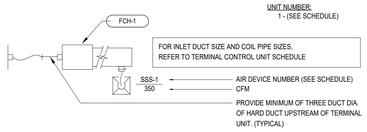
AIR DEVICES: S S S - 1 (DUTY / TYPE; UNIT NO. / HEATING COIL)

DUTY:
- S - SUPPLY
- R - RETURN
- E - EXHAUST
- T - TRANSFER

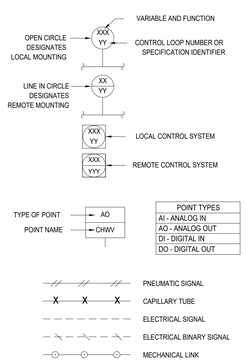
TYPE:
- L - LINEAR DIFFUSER
- S - CEILING DIFFUSER, LAY-IN
- R - CEILING DIFFUSER, SURFACE
- O - ROUND DIFFUSER, SURFACE
- G - SIDEWALL GRILLE
- D - DOOR GRILLE
- P - PLENUM

FACE
- L - LOUVER
- S - SINGLE DEFLECTION
- D - DOUBLE DEFLECTION
- P - PERFORATED
- O - PLAQUE
- 1 - 1 SLOT
- 2 - 2 SLOTS
- 3 - 3 SLOTS
- 4 - 4 SLOTS

UNIT NUMBER:
- 1 - (SEE SCHEDULE)



INSTRUMENT AND CONTROL LOOP TAGGING (PER ISA STANDARD 2003)



POINT TYPES
AI - ANALOG IN
AO - ANALOG OUT
DI - DIGITAL IN
DO - DIGITAL OUT

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS,QUALITY		ALARM		
B	BURNER FLAME,COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	COND,pH,ORP			CONTROL	
D	DEW POINT	DIFFERENTIAL			
E	VOLTAGE (ELECTRICAL)		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE		GLASS,VIEWING DEVICE		
H	MANUAL OPERATING				HIGH (OPEN)
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW (CLOSE)
M	MOISTURE (HUMIDITY)	MOMENTARY			MIDDLE (INTERMEDIATE)
N	NOT USED		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	NOT USED		ORIFICE,RESTRICTION		
P	PRESSURE		POINT (TEST) CONN.		
Q	QUANTITY	TOTALIZE,INTEGRATE			
R	RADIATION		RECORD (HARDWIRE)		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMITTER	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION			VALVE,DAMPER,LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT,STATE OR PRESENCE	Y AXIS		RELAY,COMPUTE,CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

MISCELLANEOUS SYMBOLS

PIPE FLUID ABBREVIATIONS

BBD BOILER BLOW DOWN
BD BLOW DOWN
BCA BOILER COMBUSTION AIR
BFG BOILER FLUE GAS
BFW BOILER FEED WATER
BS BRINE SUPPLY
BR BRINE RETURN
CBD CONTINUOUS BOILER BLOW DOWN
CD CONDENSATE DRAIN
CHWR CHILLED WATER RETURN
CHWS CHILLED WATER SUPPLY
CW CITY WATER (POTABLE,DOM)
CWS CONDENSER WATER SUPPLY
CWR CONDENSER WATER RETURN
DHW DOMESTIC HOT WATER (POTABLE)
DHWR DOMESTIC HOT WATER RETURN (POTABLE)
DR DRAIN
DTWS DUAL TEMPERATURE WATER SUPPLY
DTWR DUAL TEMPERATURE WATER RETURN
EXH ENGINE EXHAUST
FOR FUEL OIL RETURN
FOS FUEL OIL SUPPLY
FP FIRE PROTECTION
FW FACTORY WATER
GLR GLYCOL RETURN
GLS GLYCOL SUPPLY
HRR HEAT RECOVERY RETURN
HRS HEAT RECOVERY SUPPLY
HTWR HIGH TEMPERATURE WATER RETURN
HTWS HIGH TEMPERATURE WATER SUPPLY
HWR HOT WATER RETURN
HWS HOT WATER SUPPLY
IA-XXX INSTRUMENT AIR (PSIG)
KHW KITCHEN HOT WATER (POTABLE)
KHWCR KITCHEN HOT WATER RETURN
MA MEDICAL AIR
ME MEDICAL EVACUATION
MNO MEDICAL NITROUS OXIDE
MO MEDICAL OXYGEN
MUW MAKE UP WATER
MV MEDICAL VACUUM
NG-XXX NATURAL GAS (PSIG)
N2 NITROGEN
PC PUMPED CONDENSATE
PR PROPANE
PW PROCESS WASTE, VENTS & DRAINS
RHG REFRIGERANT HOT GAS
RL REFRIGERANT LIQUID
ROW REVERSE OSMOSIS WATER
RS REFRIGERANT SUCTION
RV RELIEF VENT
RWS RIVER WATER SUPPLY
RWR RIVER WATER RETURN
SAN SANITARY SEWER
SC-XXX STEAM CONDENSATE (PSIG)
ST STORM SEWER
STM-XXX STEAM (PSIG)
SS-XX/XX SUPERHEATED STEAM (PSIG/TEMP)
SSW SOFTENED SERVICE WATER (NON-POTABLE)
SV SANITARY VENT
SW SERVICE WATER (NON-POTABLE)
TW TREATED WATER (DEMINERALIZED)
V VENT
VSC VACUUM STEAM CONDENSATE
VTR VENT THROUGH ROOF
WW WELL WATER
WWS WELL WATER SUPPLY
WWR WELL WATER RETURN

MISCELLANEOUS ABBREVIATIONS

ACFM ACTUAL CUBIC FEET/MINUTE
AFF ABOVE FINISHED FLOOR
BLDG BUILDING
BLR BOILER
BOD BOTTOM OF DUCT
BOI BOTTOM OF INSULATION
BOP BOTTOM OF PIPE
BOS BOTTOM OF STEEL
BTU BRITISH THERMAL UNIT
C COMMON
CC CONTROLS CONTRACTOR
CONC CONCRETE
COND CONDENSER
COP CENTER OF PIPE
CFM CUBIC FEET PER MINUTE
DIA DIAMETER
DWG DRAWING
EA EXHAUST AIR
EC ELECTRICAL CONTRACTOR
F FAHRENHEIT (DEGREES)
FBO FURNISHED BY OTHERS
FC FIRE PROTECTION CONTRACTOR
FPM FEET PER MINUTE
FPS FEET PER SECOND
FOB FLAT ON BOTTOM
FOT FLAT ON TOP
FT FEET
FTF FITTING TO FITTING
GAL GALLONS
GC GENERAL TRADES CONTRACTOR
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
HB HOSE BIB
HP HORSEPOWER
HZ HERTZ
IE INVERT ELEVATION
IN INCHES
KEC KITCHEN EQUIPMENT CONTRACTOR
KW KILOWATT
M MOTOR
MAX MAXIMUM
MC MECHANICAL CONTRACTOR
MCC MOTOR CONTROL CENTER
MGC MEDICAL GAS COLUMN
MIN MINIMUM
NC NORMALLY CLOSED
NO NORMALLY OPEN
NPC NITROGEN PRESSURE CONTROL
NPS NITROGEN PRESSURE SWITCH
NTS NOT TO SCALE
OA OUTSIDE AIR
OD OUTSIDE DIAMETER
OF OWNER FURNISHED
PC PLUMBING CONTRACTOR
P&ID PROCESS & INSTRUMENTATION DIAGRAM
PSIA POUNDS PER SQUARE INCH ABSOLUTE
PSIG POUNDS PER SQUARE INCH GAUGE
RA RETURN AIR
SA SUPPLY AIR
SC SECURITY CONTRACTOR
SCFM STANDARD CUBIC FEET PER MINUTE
SPEC SPECIFICATIONS
TA TRANSFER AIR
TDH TOTAL DYNAMIC HEAD
TOD TOP OF DUCT
TOP TOP OF PIPE
TOS TOP OF STEEL
TYP TYPICAL
VB VALVE BOX
VIF VERIFY IN FIELD
VS VACUUM SWITCH
WK WORK POINT (ELEVATION)
WP WATER PROOF

GENERAL NOTES

A FOR KEY PLAN/MAP AND DRAWING INDEX SEE COVER SHEET.

B FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING LEGEND SHEET.

C COORDINATE THE INSTALLATION WITH EXISTING CONDITIONS, THE OWNER'S MAINTENANCE STAFF, AND THE WORK OF OTHER CONTRACTORS.

D EXAMINE ALL EXISTING CONDITIONS. VERIFY ALL DIMENSIONS. THE DRAWINGS ARE ILLUSTRATIVE AND MAY NOT REFLECT EXACT CONDITIONS OR DIMENSIONS.

E DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OR GEOMETRICAL RELATIONSHIP OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, AND COMPONENT. DO NOT USE THE PLANS FOR THE EXACT LOCATION OF EQUIPMENT.

F THE DESIGN AND DRAWINGS ARE BASED ON THE USE OF SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES. IF ALTERNATE MANUFACTURERS, SIZES, OR MODELS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL IMPACTS PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO ACCOMMODATE ALTERNATE PRODUCTS THAT ARE BID OR INSTALLED AT THE CONTRACTOR'S OPTION. ENGINEERING FEES WHICH RESULT FROM RE-DESIGN FOR ALTERNATE PRODUCTS SHALL BE PAID BY THE CONTRACTORS AT NO ADDITIONAL COST TO THE OWNER.

G DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO BID.

H WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY. NOTIFY THE ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.

I NOTIFY THE OWNER AND FIELD VERIFY CONDITIONS BEFORE EXCAVATING, TRENCHING, SAW CUTTING, CORING, OR MAKING OTHER STRUCTURAL MODIFICATIONS.

J ANY EXISTING CONDITION DISCOVERED DURING THE DEMOLITION OR CONSTRUCTION PROCESS WHICH, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICES, SHOULD BE REMEDIED, SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT IMMEDIATELY, IN WRITING.

K PROVIDE PROTECTION TO THE EXISTING FACILITY FROM DAMAGE OF ANY KIND DURING ALL PHASES OF THE PROJECT.

M OBTAIN WRITTEN APPROVAL FROM THE ENGINEER BEFORE RE-USING EXISTING EQUIPMENT, COMPONENTS, OR OPENINGS.

N COORDINATE ALL SERVICE OUTAGES WITH THE OWNER. MAINTAIN SERVICE TO OTHER PARTS OF CAMPUS DURING DEMOLITION.

O THE CONTRACTOR SHALL CONDUCT A MEETING AT THE BEGINNING OF EACH SHIFT TO FAMILIARIZE THE WORKERS WITH THE REQUIREMENTS OF THE DAY'S WORK.

P OSHA EXCAVATION SAFETY PRACTICES ARE TO BE FOLLOWED AT ALL TIMES. OPEN TRENCHES ARE TO BE CLEARLY MARKED OR ILLUMINATED DURING NON-WORKING PERIODS.

Q CONTRACTOR IS TO NOTIFY CUSTOMER ASSOCIATE PRIOR TO ANY EXCAVATION OR TRENCHING. ALL KNOWN UNDERGROUND UTILITIES WILL BE MARKED BY THE CUSTOMER. ANY DAMAGE TO MARKED UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CUSTOMER ASSOCIATE AND PROJECT ENGINEER.

R THE PROJECT INTENT IS TO MINIMIZE ANY SYSTEM DOWNTIME AND ROAD CLOSURES. THE ACTUAL SYSTEM TIE IN WILL BE COORDINATED AND SCHEDULED WITH THE OWNER.

S IN PROJECT AREAS WHERE CEILINGS ARE REMOVED AND REPLACED AT THE SAME OR NEARLY THE SAME ELEVATION, THE HVAC CONTRACTOR WILL TEMPORARILY REMOVE, SUPPORT, AND REINSTALL ALL AIR DEVICES IN THE CEILING GRID AS PART OF THE PROJECT SCOPE.

SOME SYMBOLS AND ABBREVIATIONS APPEARING ON THIS SHEET MAY NOT BE USED ON THE PROJECT.

NO.	DATE	DESCRIPTION
1	04/28/2026	ADDENDUM #1

Hamilton County OHIO

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CINCINNATI, OH

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STATE OF OHIO — TIMOTHY T. CHRISTMAN — 75602 — REGISTERED PROFESSIONAL ENGINEER

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CMM	250127
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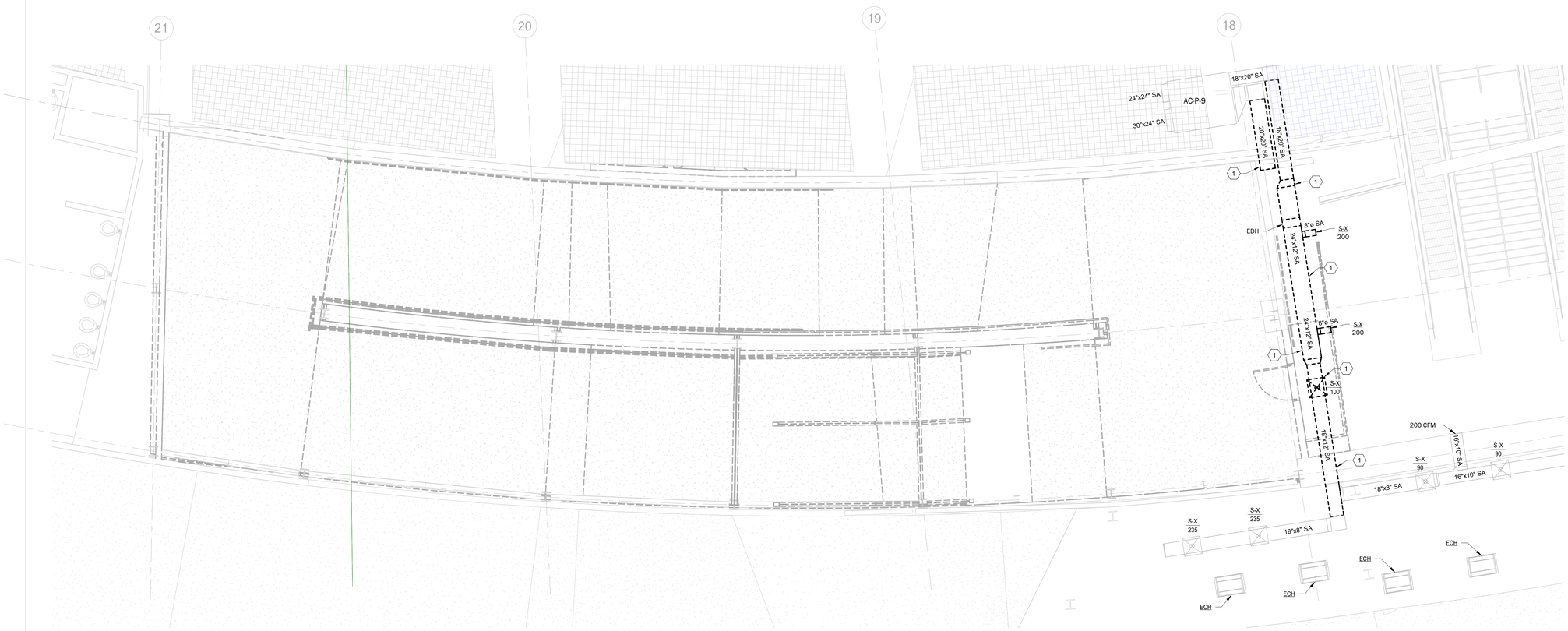
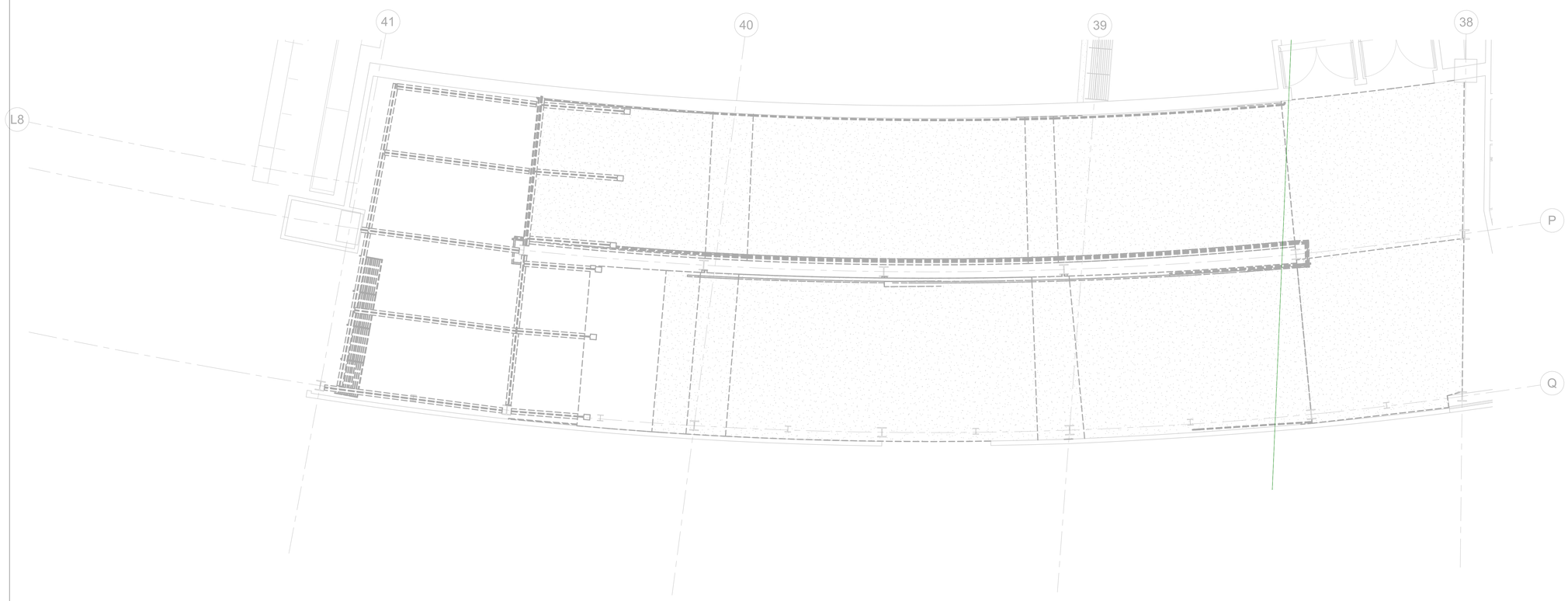
TTC	

HVAC LEGEND & GENERAL NOTES

DRAWING NUMBER	ISSUE
H001	1



PARTIAL PLAN - SECTOR 4
SCALE: 3/16" = 1'-0"
NORTH
1
H101



PARTIAL PLAN - SECTOR 9
SCALE: 3/16" = 1'-0"
NORTH
2
H101

DRAWING NOTES

1 TEMPORARILY REMOVE AND STORE EXISTING SUPPLY AND RETURN DUCTWORK, FITTINGS, SUPPORTS, AND AIR DEVICES CLEAR OF SPACE REQUIRED FOR G.C. TO DEMOLISH EXISTING STAIRWELL ABOVE. SUPPLY AND RETURN DUCTWORK TO BE RE-USED AND RE-INSTALLED IN NEW WORK SCOPE AS POSSIBLE. PROVIDE REPLACEMENT DUCTWORK, FITTINGS, AND ACCESSORIES IF SECTIONS ARE DAMAGED DURING REMOVAL AS REQUIRED.

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVERSHEET.

B FOR GENERAL NOTES, LEGENDS AND SYMBOLS SEE DRAWING H001.

NO.	DATE	DESCRIPTION
1	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

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700 Broadway Street
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main 513.621.6211
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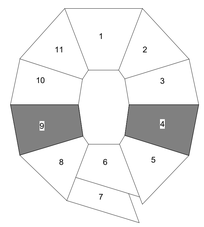


N

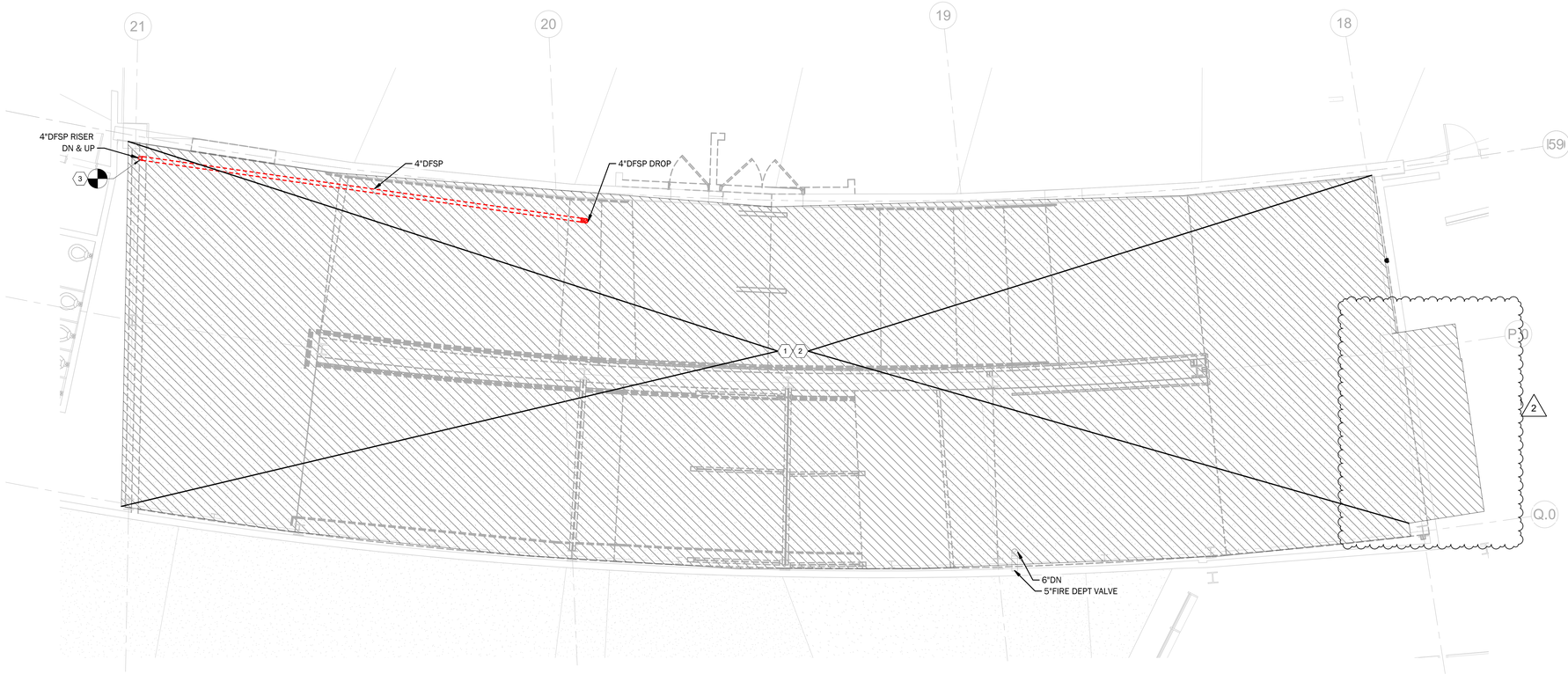
0 4' 8' 12'
SCALE: 3/16"=1'-0"

STATE OF OHIO
JEFFREY T. HOLLENKAMP
75602
REGISTERED
PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
CMOOR	250127
DRAWN	DATE
MSTEF	03/25/26
CHECKED	PROJ. MGR.
TTC	

HVAC PARTIAL PLANS LEVEL 300 DEMOLITION

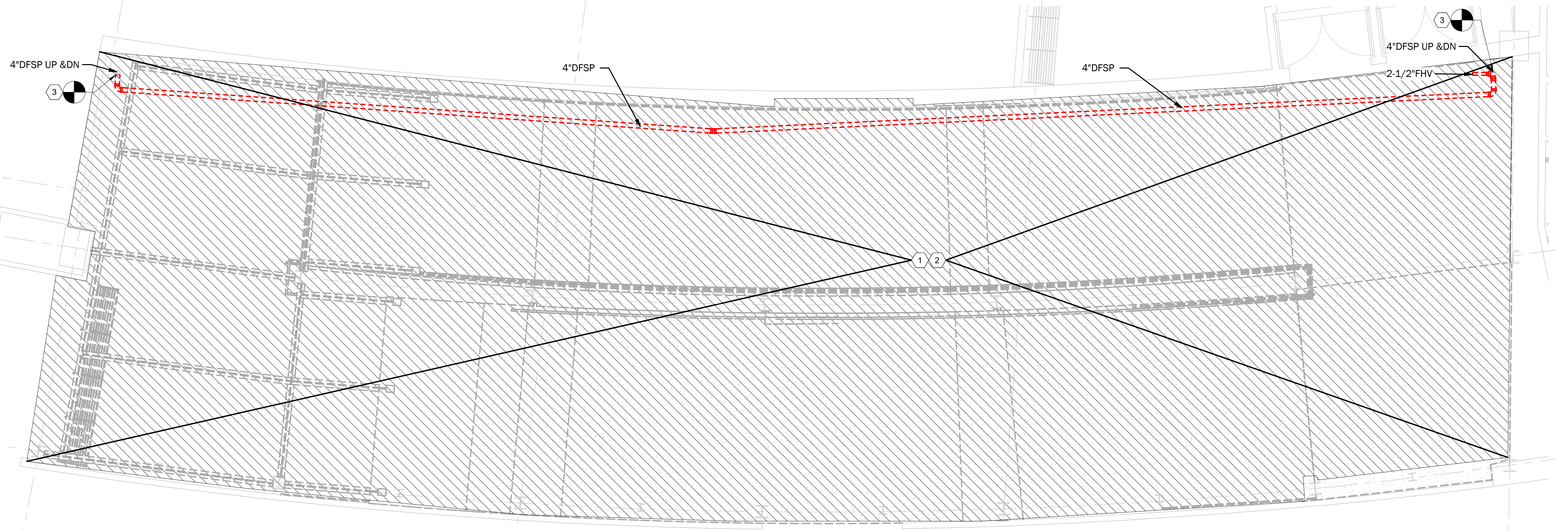
DRAWING NUMBER	ISSUE
H101	1



PARTIAL PLAN - SECTOR 4

SCALE: 3/16" = 1'-0"

1 FP101



PARTIAL PLAN - SECTOR 9

SCALE: 3/16" = 1'-0"

2 FP101

DRAWING NOTES

DRAWING FP101

1 COORDINATE REMOVAL OF EXISTING FIRE PROTECTION PIPING WITH REMOVAL OF STRUCTURE ABOVE. DISCONNECT AND TEMPORARILY REMOVE EXISTING FIRE PROTECTION PIPING IN THIS AREA TO FACILITATE ESCALATOR INSTALLATION. AFTER COMPLETION OF ESCALATOR, REINSTALL ALL PIPING AND RESEAL WALL PENETRATIONS.

2 HATCHED AREA INDICATES LIMITS OF STRUCTURE ABOVE TO BE REMOVED.

3 REMOVE EXISTING DRY SPRINKLER PIPING AND ASSOCIATED SPRINKLER HEADS BACK TO MAIN AT THIS APPROXIMATE LOCATION AND PREPARE FOR NEW WORK.

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX SEE COVER SHEET AND DRAWING G-000.

B FOR GENERAL NOTES, LEGEND AND SYMBOLS, SEE DRAWING FP-001.

C THIS BUILDING IS PROTECTED BY FLOOD PROTECTION SYSTEMS INCLUDING FLOOD WALLS AND A GENERATOR SUPPLIED DEEP WELL PUMPING SYSTEM IN COMPLIANCE WITH ORC 1333.15(E)(2). THE WATER LEVEL IS MAINTAINED TO 470' WITHIN THE FACILITY. THE FLOODPLAIN ELEVATION IS 498'. THE LOWEST FLOOR ELEVATION IN THIS PROJECT SPACE IS 480'. THEREFORE, THERE ARE NO SPECIAL INSTALL REQUIREMENTS.

D PROVIDE COMPLIANCE WITH THE AHJ AND OHIO BILDING CODE, WHICH PARTIALLY ADOPTS THE 2009 IFC. FIRE PROTECTION CONTRACTOR SHALL PROVIDE NICET CERTIFIED DRAWINGS AND CALCULATIONS FOR THIS PROJECT.

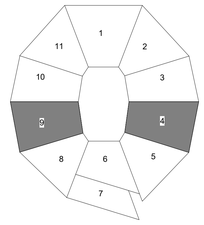
E THIS DRAWING IS A DIAGRAMMATIC REPRESENTATION AND BASIC SCOPE PRESENTATION. THE CONTRACTOR MUST PROVIDE A FULLY FUNCTIONAL FIRE SPRINKLER SYSTEM ALONG WITH HYDRAULIC CALCULATIONS AND COMPLETE CERTIFIED AND STAMPED DRAWINGS FOR PERMITTING AND CONSTRUCTION.

F DRAIN AND REFILL THE FIRE PROTECTION SYSTEM AFTER WORK IS COMPLETE.

G PERFORM FIRE WATCH OVER 8-HOUR DURATION IF FIRE SYSTEM IS DRAINED.

H EQUIPMENT AND/OR PIPING TEMPORARILY REMOVED FOR ACCESS IS TO BE STORED ON SITE AND PROTECTED FROM DAMAGE. ANY DAMAGED OCCURRED TO EQUIPMENT, PIPING, INSULATION, AND SPECIALTIES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED WITH LIKE EQUIPMENT AND MATERIALS.

I INSULATE AND HEAT TRACE ALL WET SPRINKLER PIPING LOCATED IN OUTDOOR AREAS.



0 4' 8' 12'

SCALE: 3/16"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

DAVIES engineering group

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Cleveland, OH ~ Fort Worth, TX ~ Elizabethtown, PA ~ Leavenworth, KS

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kzf.com

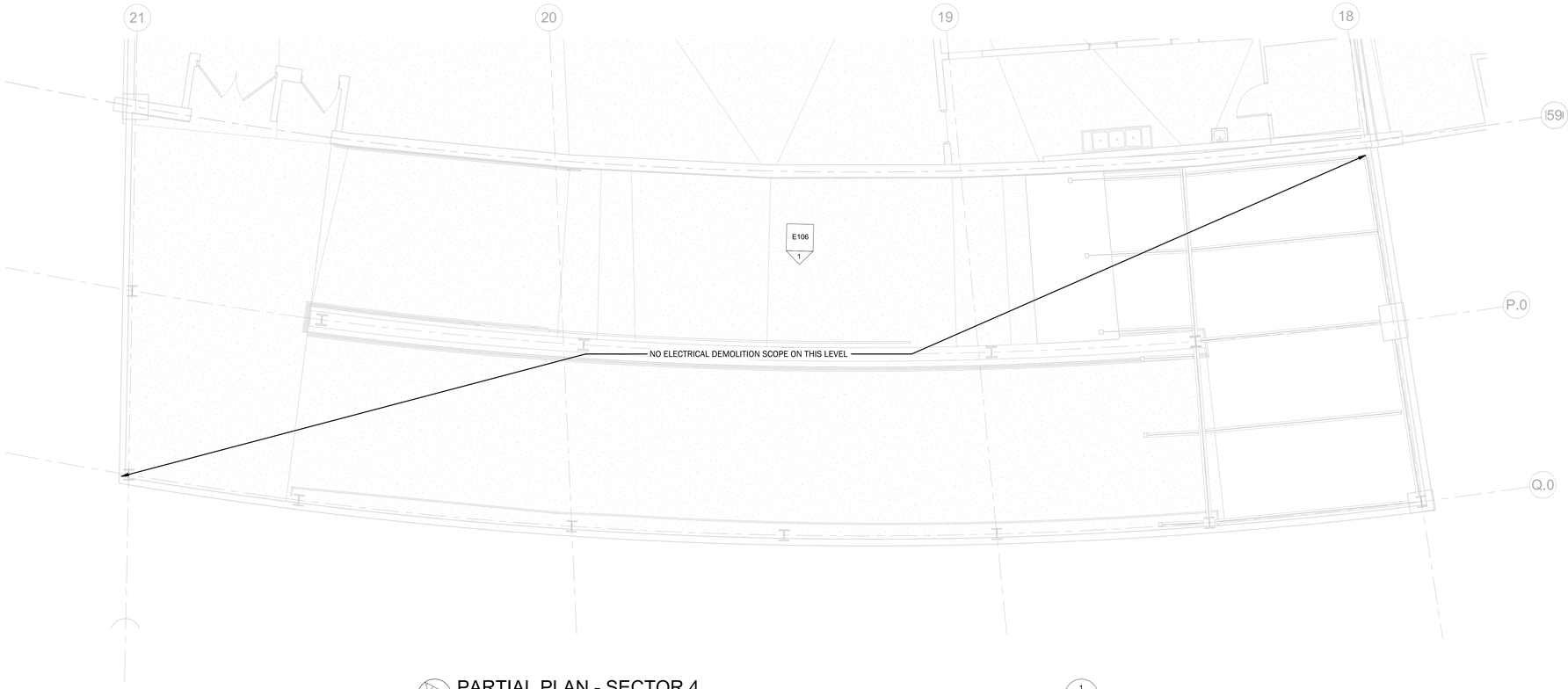
STATE OF OHIO
RAJ
PROFESSIONAL ENGINEER
75602
REGISTERED

DESIGNED	COMM. NO.
RAJ	250127
DRAWN	DATE
RAJ	03/25/26
CHECKED	PROJ. MGR.
TTC	

FIRE PROTECTION PARTIAL PLANS LEVEL 300 DEMOLITION

DRAWING NUMBER ISSUE

FP101 2

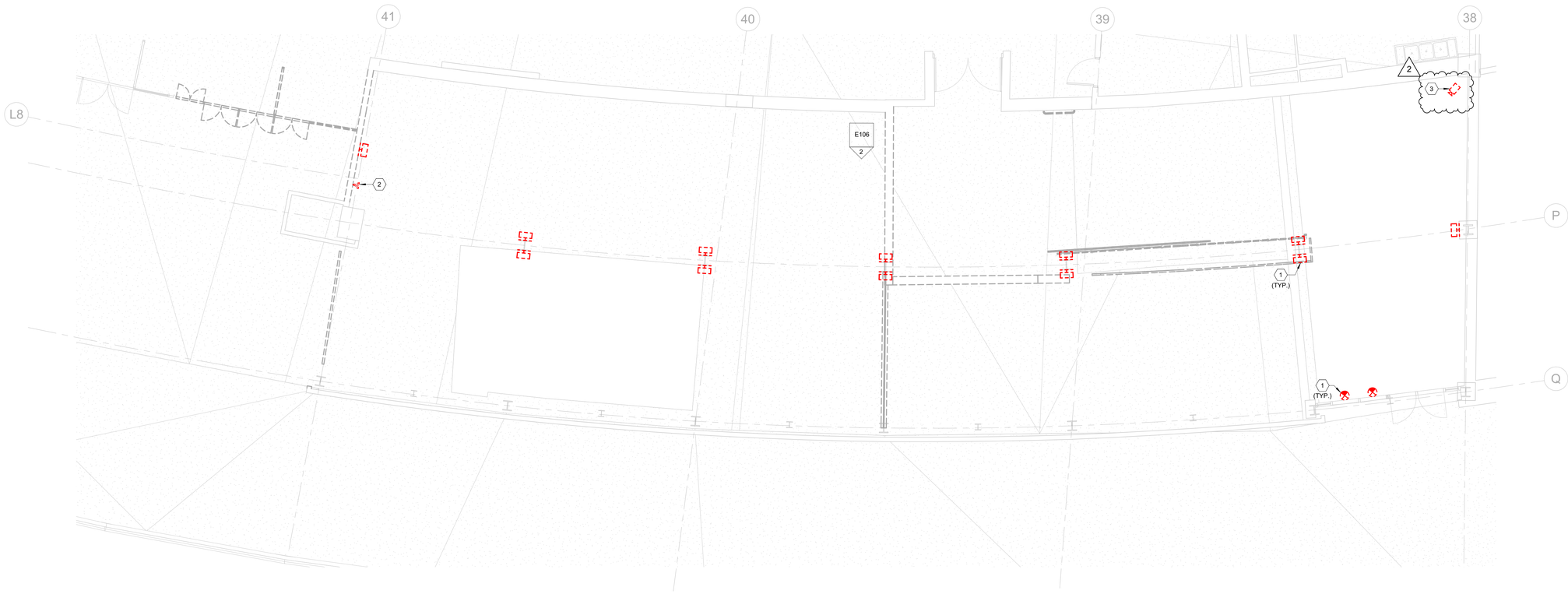


NORTH

PARTIAL PLAN - SECTOR 4

SCALE: 3/16" = 1'-0"

1 E100



NORTH

PARTIAL PLAN - SECTOR 9

SCALE: 3/16" = 1'-0"

2 E100

DRAWING NOTES

1 DEMOLISH LIGHTING FIXTURE AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO THE LAST ACTIVE DEVICE. IF NO ACTIVE DEVICE REMAINS ON THE CIRCUIT, DEMOLISH CONDUCTORS BACK TO SOURCE AND MARK THE CIRCUIT AS 'SPARE'. TYPICAL FOR ALL LIGHTING FIXTURES SHOWN DASHED.

2 DEMOLISH SPEAKER AND ASSOCIATED WIRING.

3 DEMOLISH SECURITY CAMERA AND ASSOCIATED WIRING.

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX REFER TO COVERSHEET.

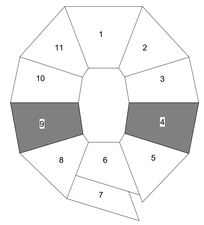
B FOR GENERAL NOTES, LEGENDS AND SYMBOLS SEE DRAWING E001.

C PROVIDE UPDATED PANEL SCHEDULES ON THE DOOR OF ALL THE PANELS AFFECTED BY SCOPE OF WORK.

D THIS BUILDING IS PROTECTED BY FLOOD PROTECTION SYSTEMS INCLUDING FLOOD WALLS AND A GENERATOR-SUPPLIED DEEP WELL PUMPING SYSTEM IN COMPLIANCE WITH ORC 1333.15(E)(2). THE WATER LEVEL IS MAINTAINED TO 470' WITHIN THE FACILITY. THE FLOODPLAIN ELEVATION IS 498'. THE LOWEST FLOOR ELEVATION OF THE PROJECT SPACE IS 500'. THEREFORE, THERE ARE NO SPECIAL INSTALL REQUIREMENTS.

E PROVIDE HEAT TRACE ON ALL EXPOSED FIRE SUPPRESSION PIPING. COORDINATE REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.

F LIMIT DEMOLITION TO AREAS INDICATED. REMOVE FEEDERS, BRANCH CIRCUITS, AND ASSOCIATED RACEWAYS BACK TO A LOCATION WITHIN THE STADIUM OUTSIDE DEMOLITION LIMITS. TERMINATE IN JUNCTION BOXES AND LABEL TO IDENTIFY SERVICE AND CIRCUIT FOR RE-USE.



N

0 4' 8' 12'

SCALE: 3/16"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

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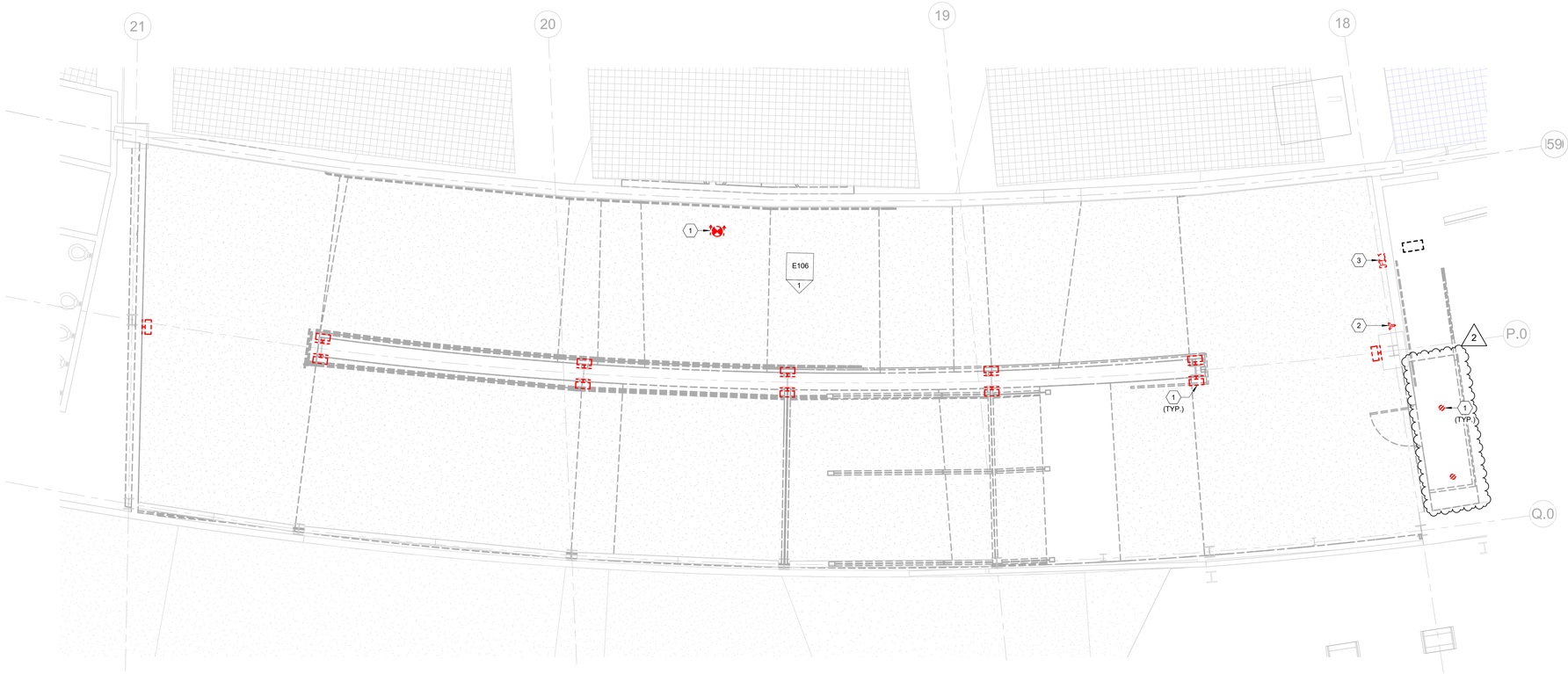
STATE OF OHIO
MICHAEL A. HUNTWORK
E-75660
REGISTERED PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
OGOLL	250127
DRAWN	DATE
OGOLL	03/25/26
CHECKED	PROJ. MGR.
MAH	

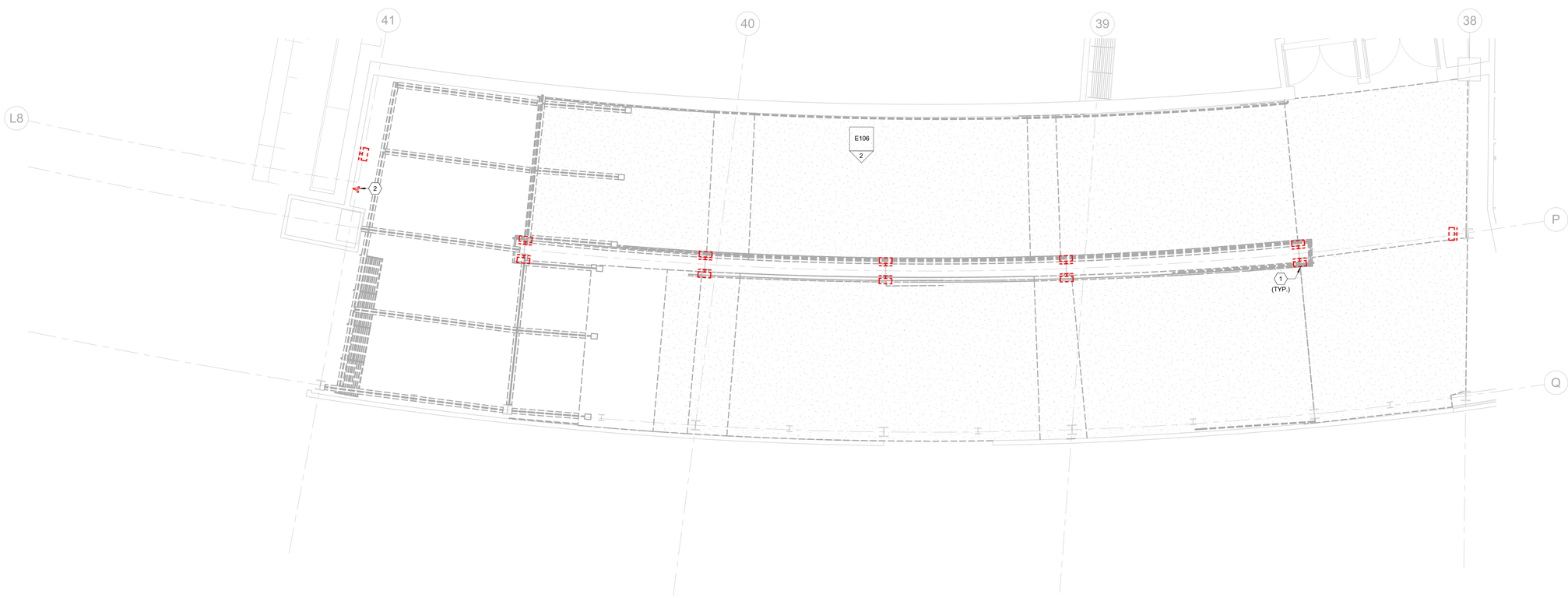
ELECTRICAL PARTIAL PLANS LEVEL 200 DEMOLITION

DRAWING NUMBER	ISSUE
E100	2



PARTIAL PLAN - SECTOR 4
SCALE: 3/16" = 1'-0"
NORTH

1
E101



PARTIAL PLAN - SECTOR 9
SCALE: 3/16" = 1'-0"
NORTH

2
E101

DRAWING NOTES

1 DEMOLISH LIGHTING FIXTURE AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO THE LAST ACTIVE DEVICE. IF NO ACTIVE DEVICE REMAINS ON THE CIRCUIT, DEMOLISH CONDUCTORS BACK TO SOURCE AND MARK THE CIRCUIT AS 'SPARE'. TYPICAL FOR ALL LIGHTING FIXTURES SHOWN DASHED.

2 DEMOLISH SPEAKER AND ASSOCIATED WIRING.

3 DEMOLISH FIRE ALARM HORN AND STROBE.

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX REFER TO COVERSHEET.

B FOR GENERAL NOTES, LEGENDS AND SYMBOLS SEE DRAWING E001.

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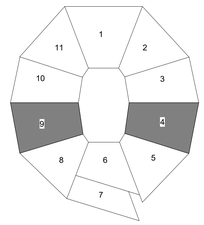
E PROVIDE HEAT TRACE ON ALL EXPOSED FIRE SUPPRESSION PIPING. COORDINATE REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.

F LIMIT DEMOLITION TO AREAS INDICATED. REMOVE FEEDERS, BRANCH CIRCUITS, AND ASSOCIATED RACEWAYS BACK TO A LOCATION WITHIN THE STADIUM OUTSIDE DEMOLITION LIMITS. TERMINATE IN JUNCTION BOXES AND LABEL TO IDENTIFY SERVICE AND CIRCUIT FOR RE-USE.



N

0 4' 8' 12'
SCALE: 3/16"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers
CINCINNATI, OH

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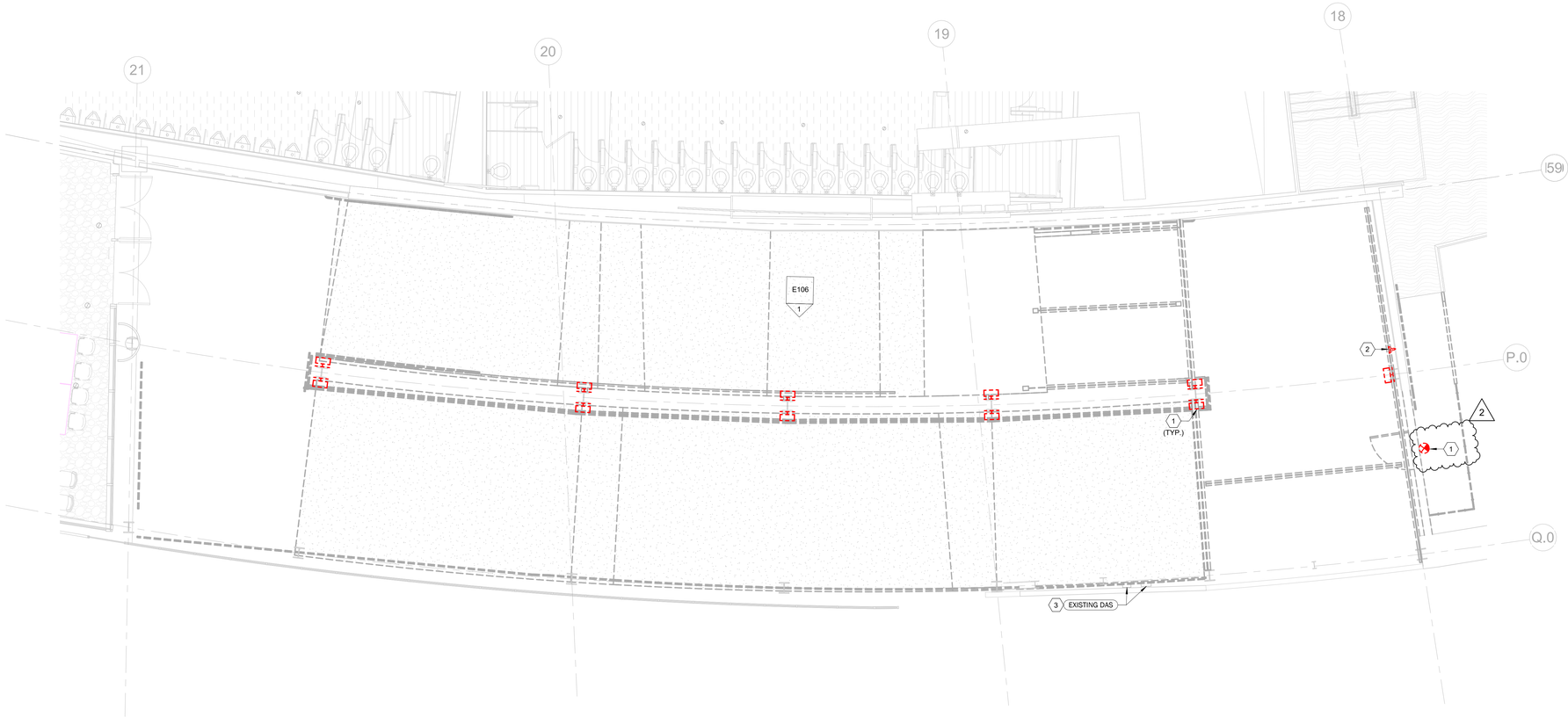
STATE OF OHIO
MICHAEL A. HUNTWORK
E-75660
REGISTERED PROFESSIONAL ENGINEER

DESIGNED	COMM. NO.
OGOLL	250127
DRAWN	DATE
OGOLL	03/25/26
CHECKED	PROJ. MGR.
MAH	

ELECTRICAL PARTIAL PLANS LEVEL 300 DEMOLITION

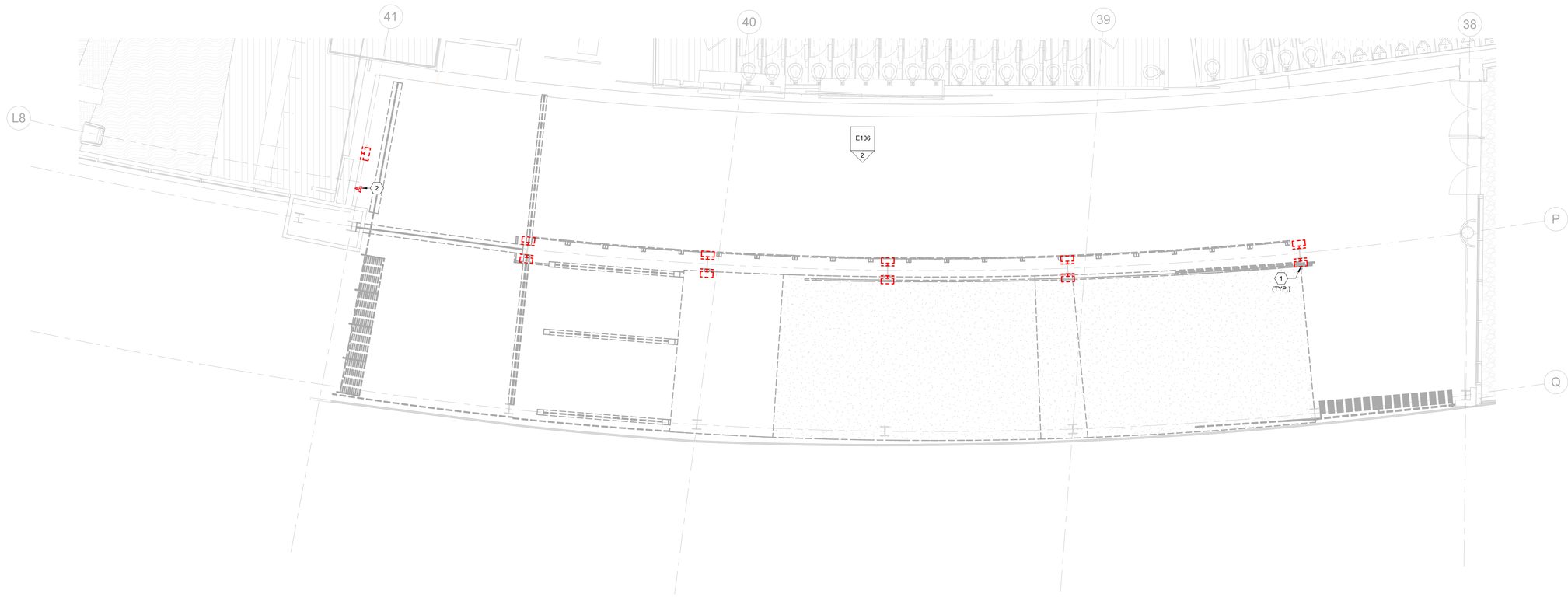
DRAWING NUMBER	ISSUE
E101	2



NORTH

PARTIAL PLAN - SECTOR 4
SCALE: 3/16" = 1'-0"

1
E102



NORTH

PARTIAL PLAN - SECTOR 9
SCALE: 3/16" = 1'-0"

2
E102

DRAWING NOTES

1 DEMOLISH LIGHTING FIXTURE AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO THE LAST ACTIVE DEVICE. IF NO ACTIVE DEVICE REMAINS ON THE CIRCUIT, DEMOLISH CONDUCTORS BACK TO SOURCE AND MARK THE CIRCUIT AS 'SPARE'. TYPICAL FOR ALL LIGHTING FIXTURES SHOWN DASHED.

2 DEMOLISH SPEAKER AND ASSOCIATED WIRING.

3 EXISTING DISTRIBUTED ANTENNAE SYSTEM (DAS) EQUIPMENT AND ASSOCIATED CABLING MOUNTED ON WALL SHALL BE PROTECTED OR TEMPORARILY RELOCATED AS REQUIRED TO MAINTAIN CONTINUOUS OPERATION DURING DEMOLITION. CONTRACTOR SHALL COORDINATE PROTECTION AND TEMPORARY RELOCATION WITH OWNER AND DAS PROVIDER.

GENERAL NOTES

APPLIES TO ALL DRAWINGS OF THIS TRADE

A FOR KEY PLAN AND DRAWING INDEX REFER TO COVERSHEET.

B FOR GENERAL NOTES, LEGENDS AND SYMBOLS SEE DRAWING E001.

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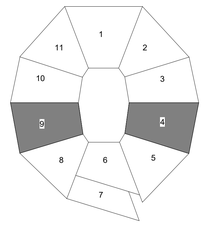
F LIMIT DEMOLITION TO AREAS INDICATED. REMOVE FEEDERS, BRANCH CIRCUITS, AND ASSOCIATED RACEWAYS BACK TO A LOCATION WITHIN THE STADIUM OUTSIDE DEMOLITION LIMITS. TERMINATE IN JUNCTION BOXES AND LABEL TO IDENTIFY SERVICE AND CIRCUIT FOR RE-USE.



N

0 4' 8' 12'
SCALE: 3/16"=1'-0"

NO.	DATE	DESCRIPTION
1	4/17/26	STRUCTURAL AND DEMOLITION BID PACKAGE
2	04/28/2026	ADDENDUM #1

Hamilton County OHIO

Paycor Stadium - Southeast/Southwest Escalator Towers

CINCINNATI, OH

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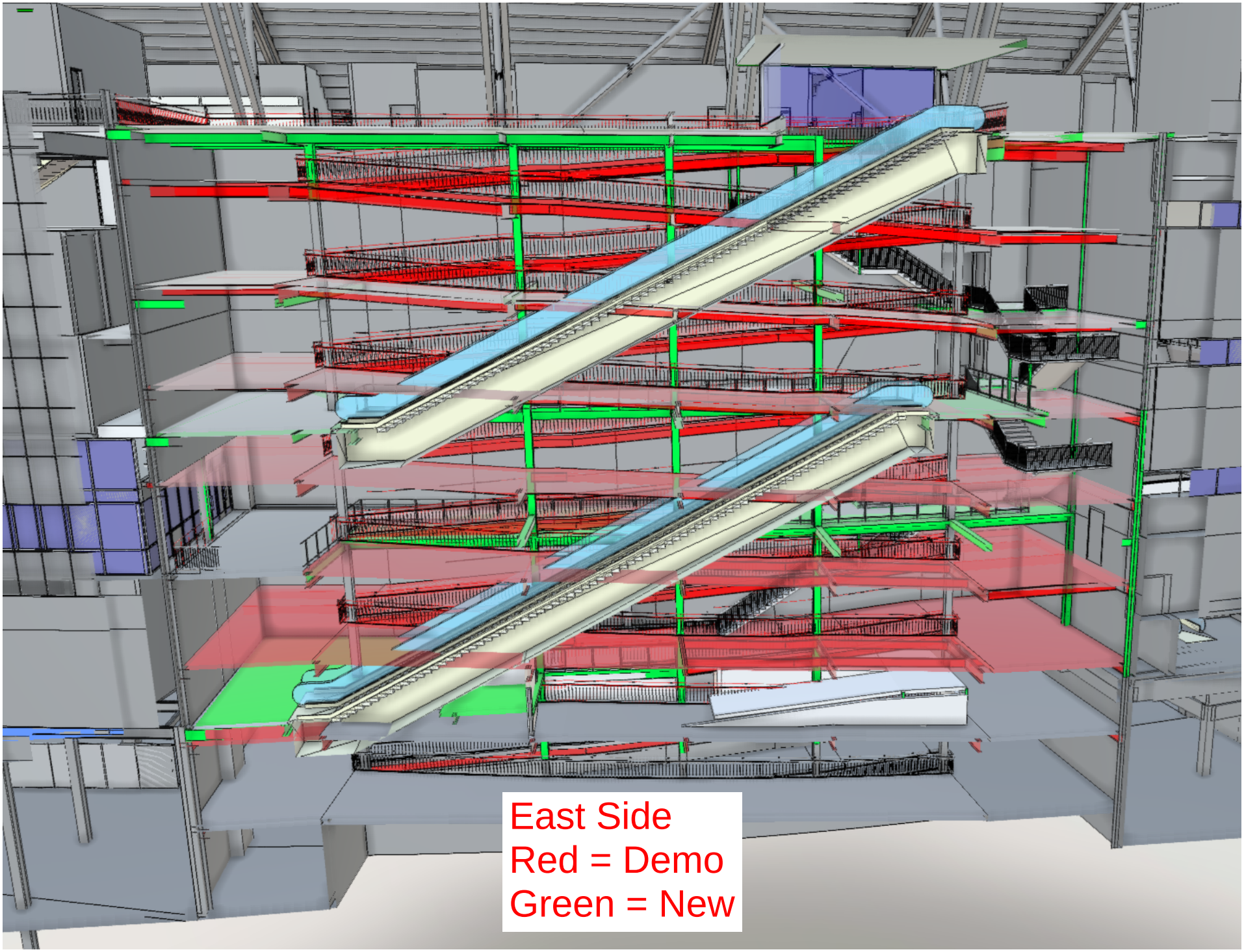
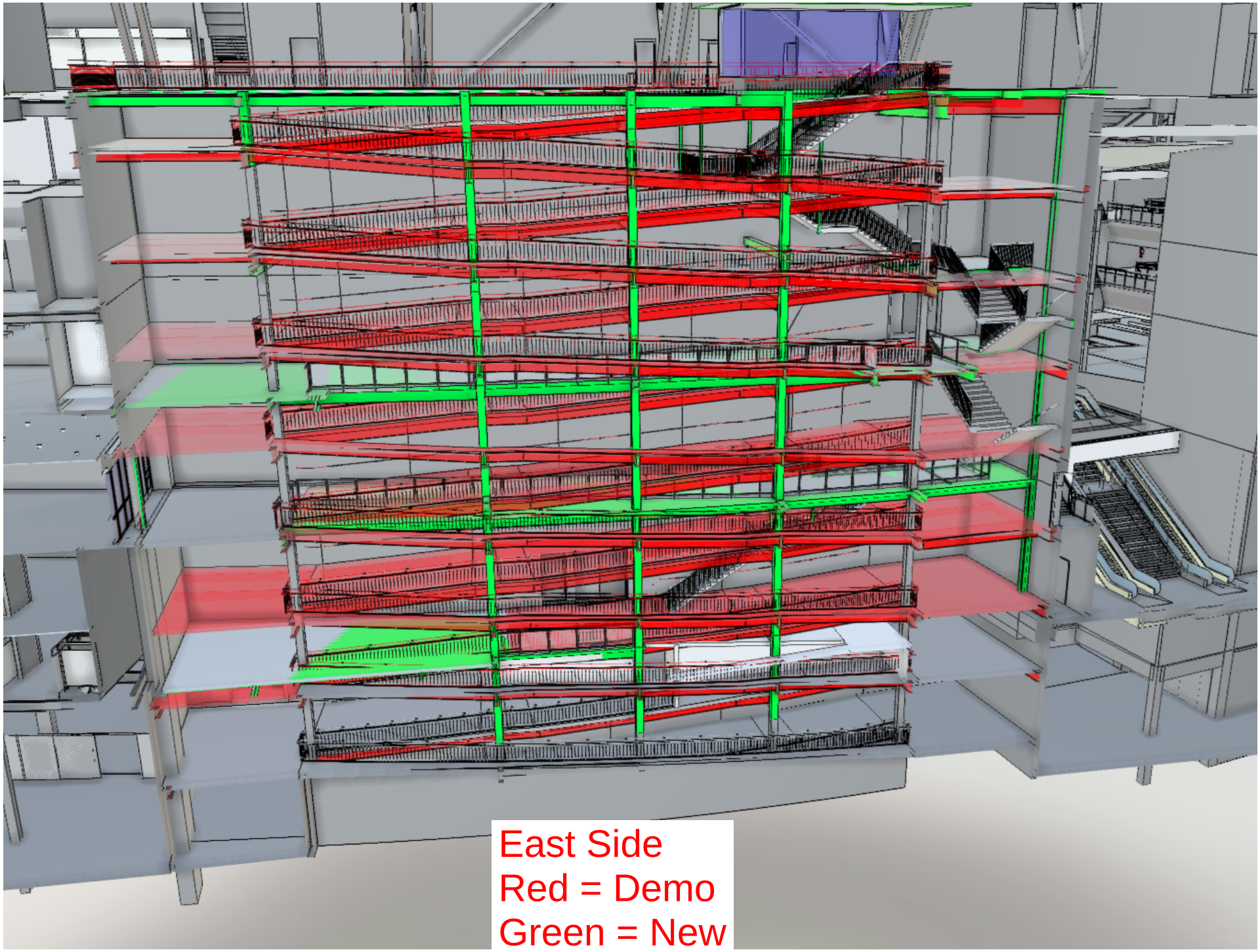
STATE OF OHIO
MICHAEL A. HUNTWORK
E–75660
REGISTERED PROFESSIONAL ENGINEER

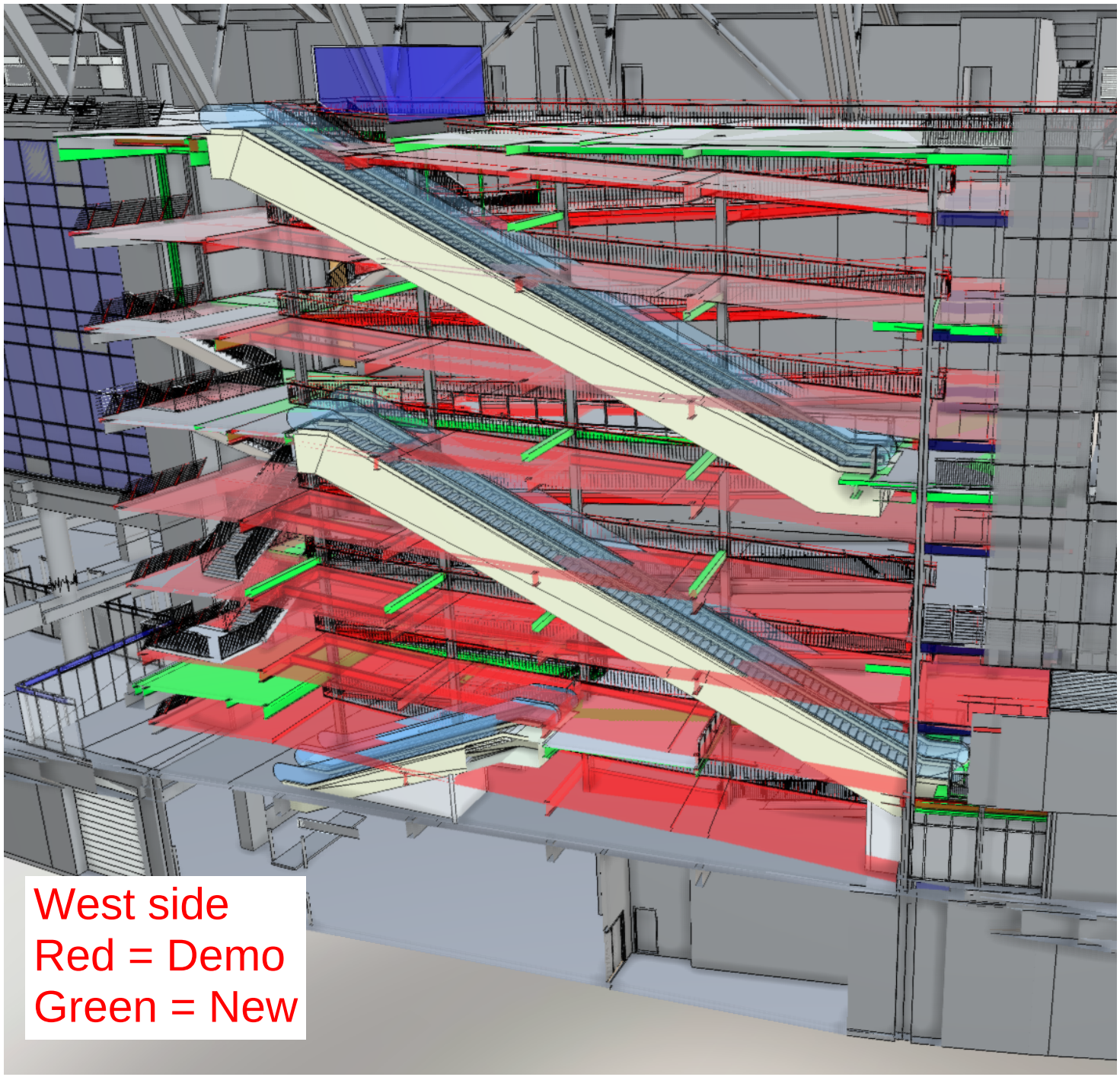
DESIGNED	COMM. NO.
OGOLL	250127
DRAWN	DATE
OGOLL	03/25/26
CHECKED	PROJ. MGR.
MAH	

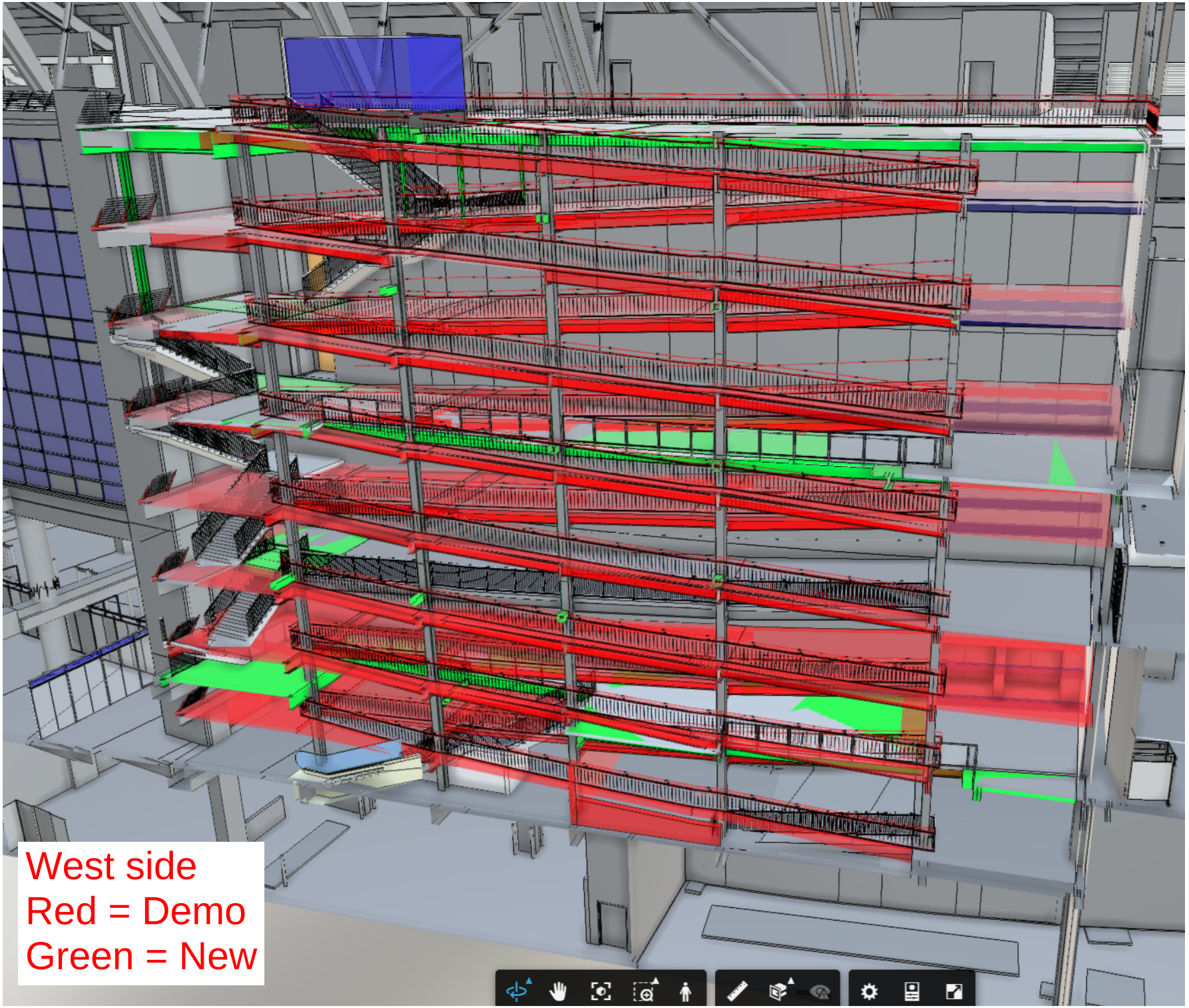
ELECTRICAL PARTIAL PLANS LEVEL 400 DEMOLITION

DRAWING NUMBER	ISSUE
E102	2

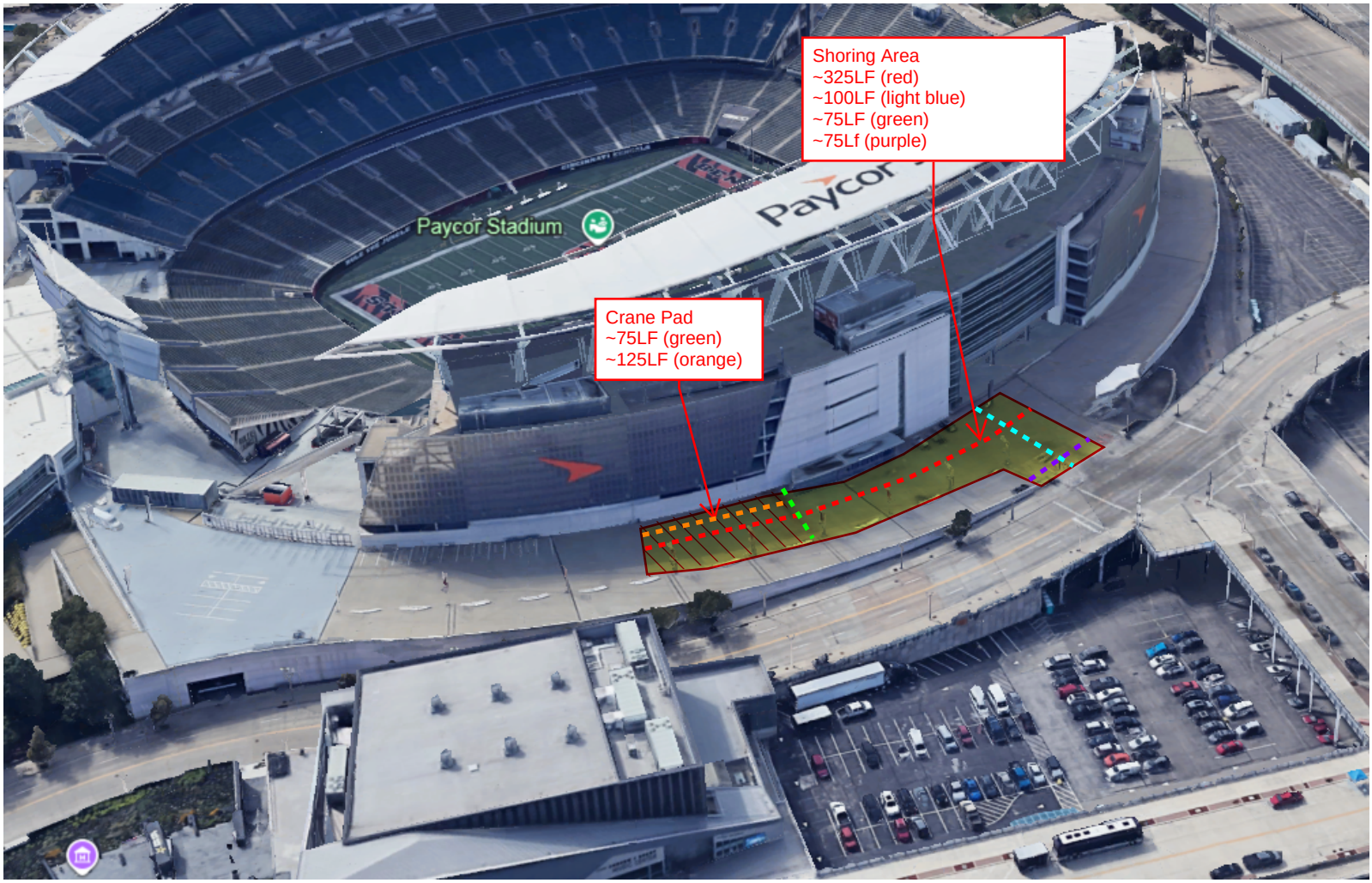

East Side
Red = Demo
Green = New


East Side
Red = Demo
Green = New

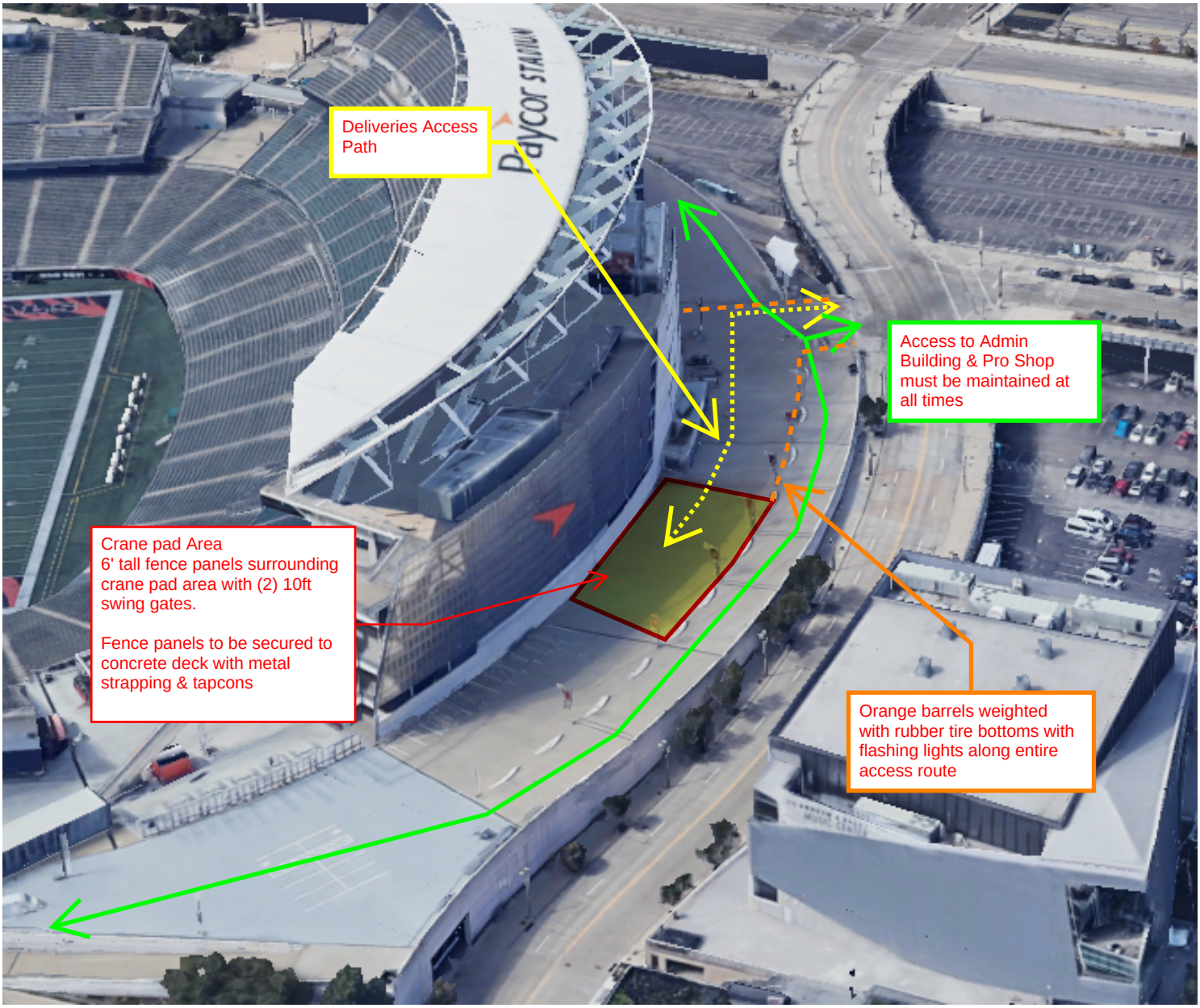

West side
Red = Demo
Green = New


West side
Red = Demo
Green = New

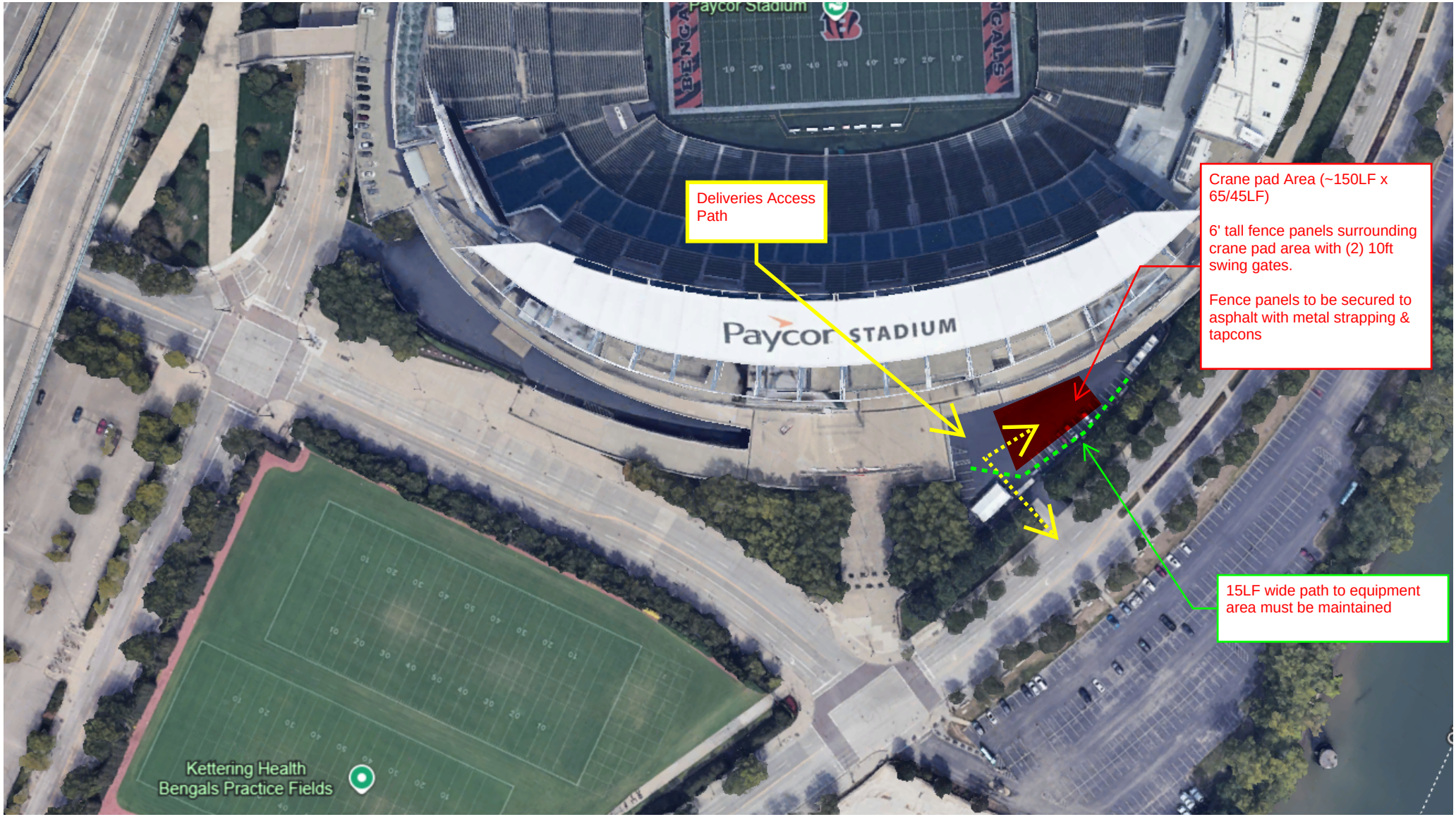
East Shoring & Crane Pad Areas



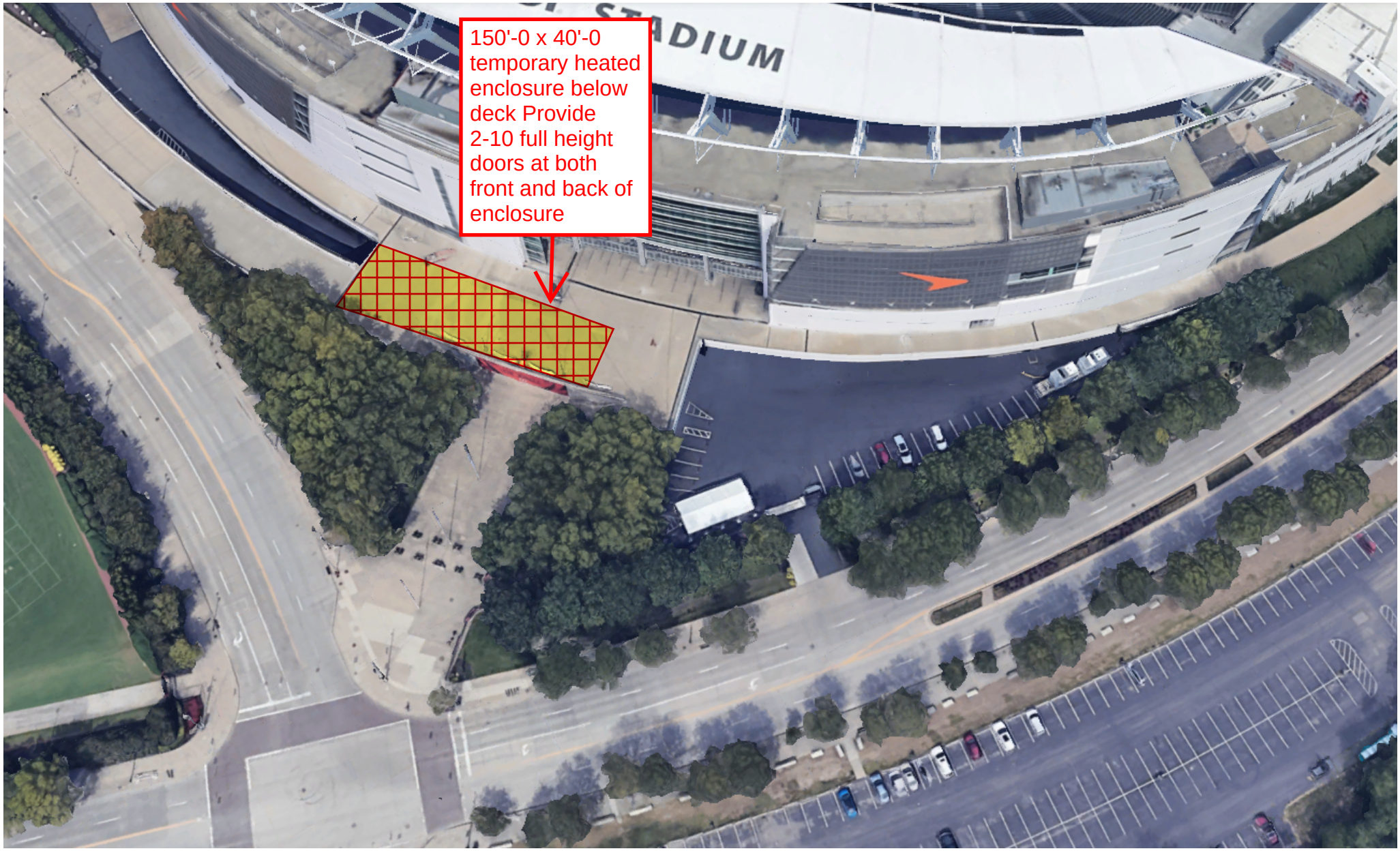
East Logistics Plan



West Logistics Plan



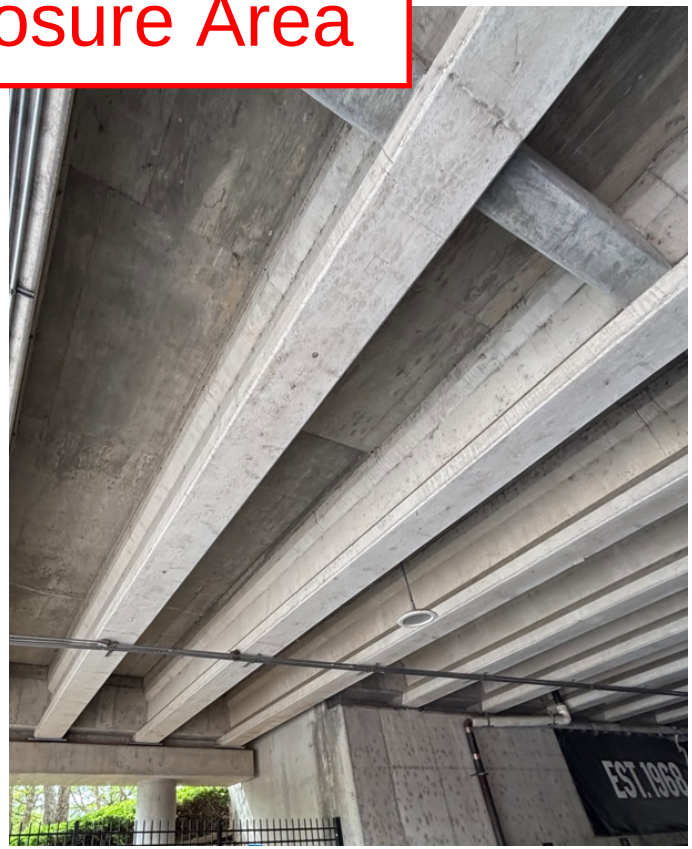
Escalator Pre-Fab Heated Enclosure Area



Escalator Pre-Fab Heated Enclosure Area

utilize concrete wall as portion of temp enclosure wall

Red dotted line is ~ footprint of enclosure area

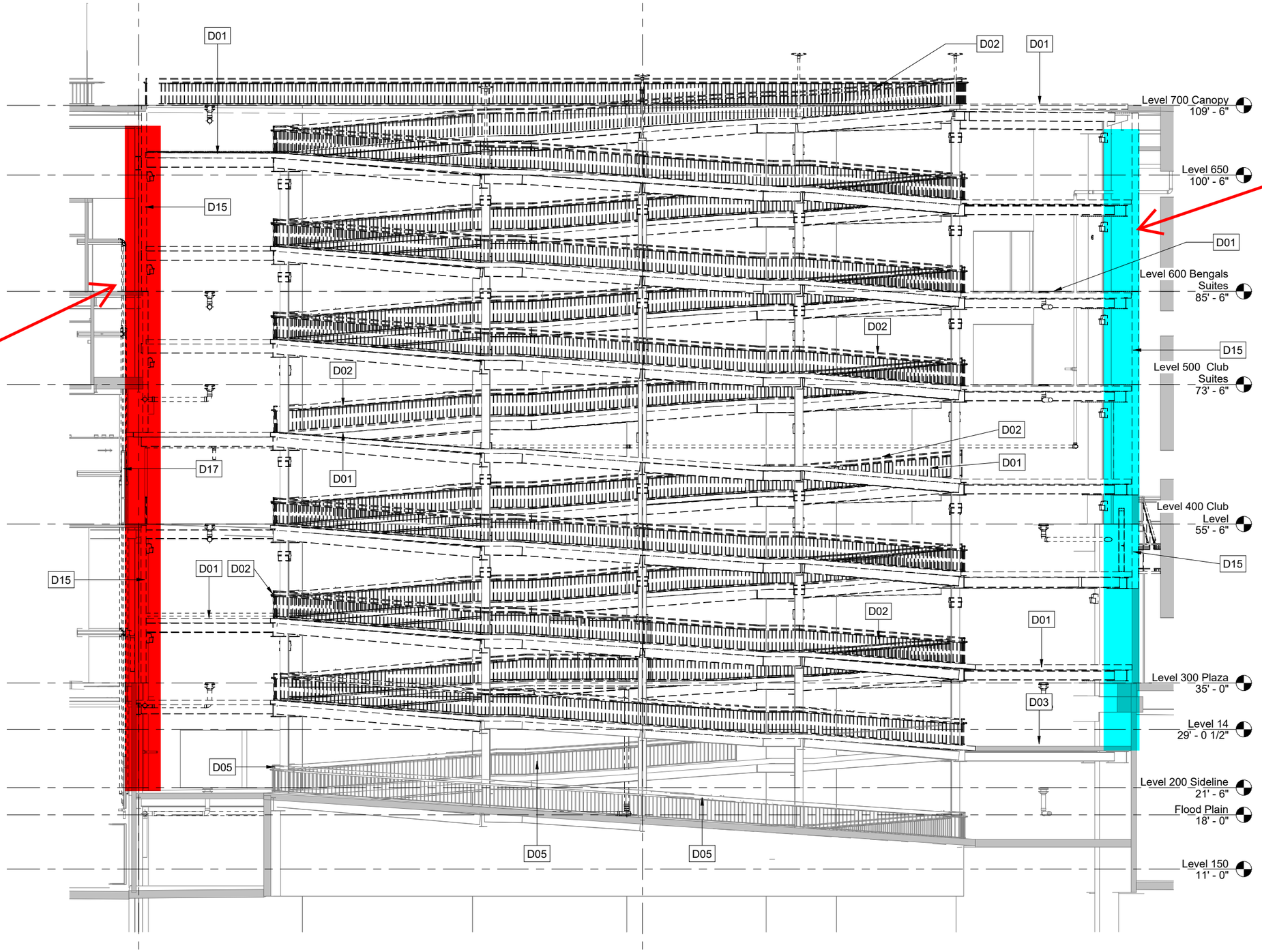


Enclosure area must be floor to ceiling and be extending up into joist space so that the temp inside the enclosure cab be maintained

Red CMU walls are NOT able to be saved utilizing 36/S203 and will need to be demolished

Steel contractor DO NOT include 36/S203 at these locations

Demo Contractor needs to INCLUDE demo of walls at these locations



02 AD-211.4 **SECTOR 4 - DEMOLITION SECTION**
1/8" = 1'-0"

East Side

Light blue CMU walls are able to be saved utilizing 36/S203

Steel contractor to INCLUDE installing 36/S203 at these locations

Demo contractor DO NOT include demo of CMU walls at these locations

Green CMU walls bypass the ramp SOM deck / structure and thus no further action is needed

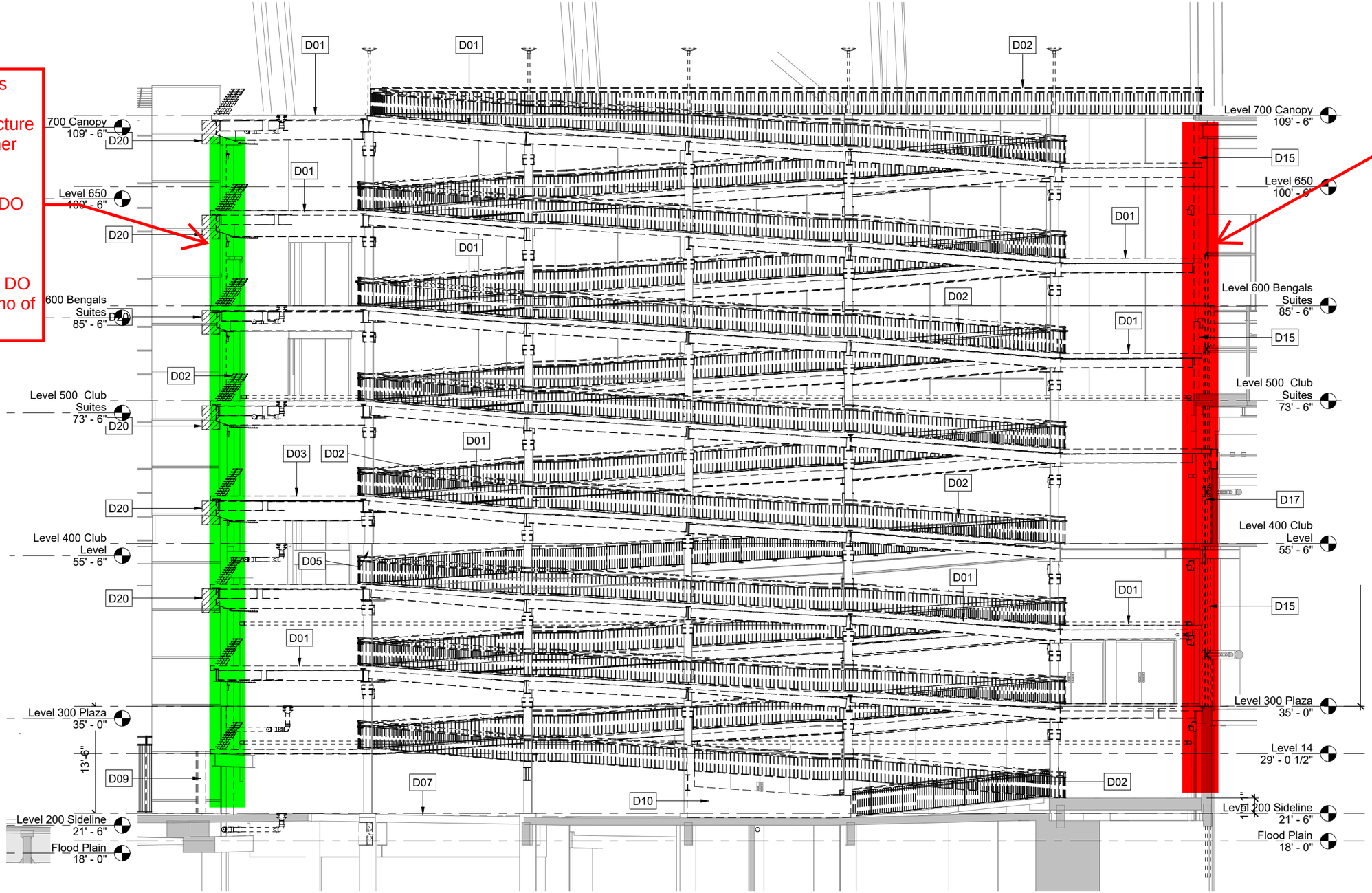
Steel contractor DO NOT include 36/S203

Demo contractor DO NOT include demo of CMU walls

Red CMU walls are NOT able to be saved utilizing 36/S203 and will need to be demolished

Steel contractor DO NOT include 36/S203 at these locations

Demo Contractor needs to INCLUDE demo of walls at these locations



02 **SECTION 9 - DEMOLITION SECTION**

AD-211.9 1/8" = 1'-0"

West Side

GROVE®
by Manitowoc

GMK5250XL-1
Product Guide

ASME B30.5
Imperial 85%

Features

- 250 t (300 USt) capacity
- 78,5 m (257.5 ft) eight-section main boom
- 17,8 m (58.4 ft) swingaway with jib and/or boom insert
- Maximum 33,8 m (111 ft) length and up to 50° offset
- VIAB turbo retarder clutch
- Single engine concept — less fuel consumption

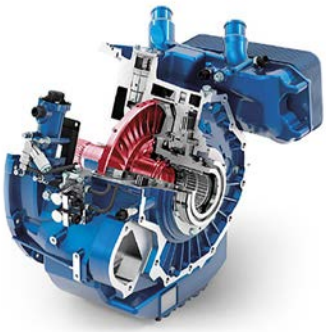
GROVE GMK5250XL-1

The GMK5250XL-1 puts power and performance to work for you with high capacities on a five-axle, all-terrain crane and 78,5 m (257.5 ft) main boom.

Features

> VIAB turbo retarder clutch option

The Grove five-axle is the first all-terrain crane to utilize a VIAB turbo clutch module, which is used by a number of heavy-duty trucks. It enables wear-free starting and braking, avoids overheating and burning, and reduces fuel consumption to a minimum, adding substantial fuel savings of approximately 30% compared with its predecessor, the GMK5275. VIAB is a turbo coupling and integrated retarder all in one, which means less weight and less space.



> Convenient transportation logistics

Logistic benefits due to interchangeable counterweight slabs and self-rigging auxiliary hoist. Once on the jobsite, the crane can be moved while carrying its full counterweight of 80 t (176,300 lb), and its ability to travel in this configuration saves valuable time on the job that would otherwise be taken up with installing and removing counterweight sections. In addition, some of the counterweight slabs are interchangeable with those of the GMK5180-1/5200-1, GMK5250L/L-1 and GMK6300L/L-1. The self-rigging auxiliary hoist eliminates the need for an assist crane during on-site rigging.

> Superior strength and reach

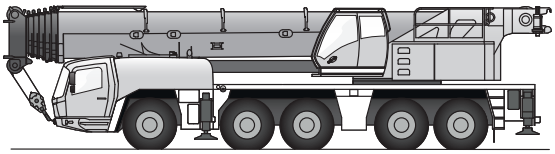
Boosting overall reach is a 17,8 m (58.4 ft) hydraulic swingaway jib, which can be extended with either an 8 m (26 ft) boom extension, 8 m (26 ft) jib insert or a combination of both, for a total possible jib length of 33.8 m (111 ft). For optimum usage, the full jib can also be operated while the crane is working with its 72 m (236 ft) boom length extended. Another beneficial feature of the jib is its ability to offer increased offset of up to 50° compared to a typical 40° offset on other Grove cranes in its class; plus there is an optional integrated heavy-duty jib available.

> CraneSTAR

CraneSTAR is an exclusive and innovative crane asset management system that helps improve your profitability and reduce costs by remotely monitoring critical crane data. Visit www.cranestar.com for more information.

CraneSTAR®

Jobsite benefits



- Five outrigger positions provide ultimate flexibility for jobsites with the ability to position the crane in tighter spaces.
- Mercedes-Benz engine and transmission with VIAB turbo clutch for premium maneuverability, optimized fuel consumption and powerful integrated retarder.
- Jobsite movement with full counterweight saves setup time.
- The GMK5250XL-1 is designed with a self-rigging auxiliary hoist, saving time and costs associated with operating an assist crane.
- Available swingaway configurations and extensions provide excellent flexibility and reach with up to 33,8 m (111 ft) and a 50° offset to reach over obstacles.
- Higher utilization, with load charts usually offered by six-axle cranes.
- Longest boom in class.

Manitowoc Crane Care™

Manitowoc Crane Care when you need it.
The assurance of the world's most advanced crane service and support to get you back to work fast.

Manitowoc Finance™

Manitowoc Finance helps you get right to work generating profits for your business.
Financial tools that help you capitalize on opportunity with solutions that fit your needs.

Contents

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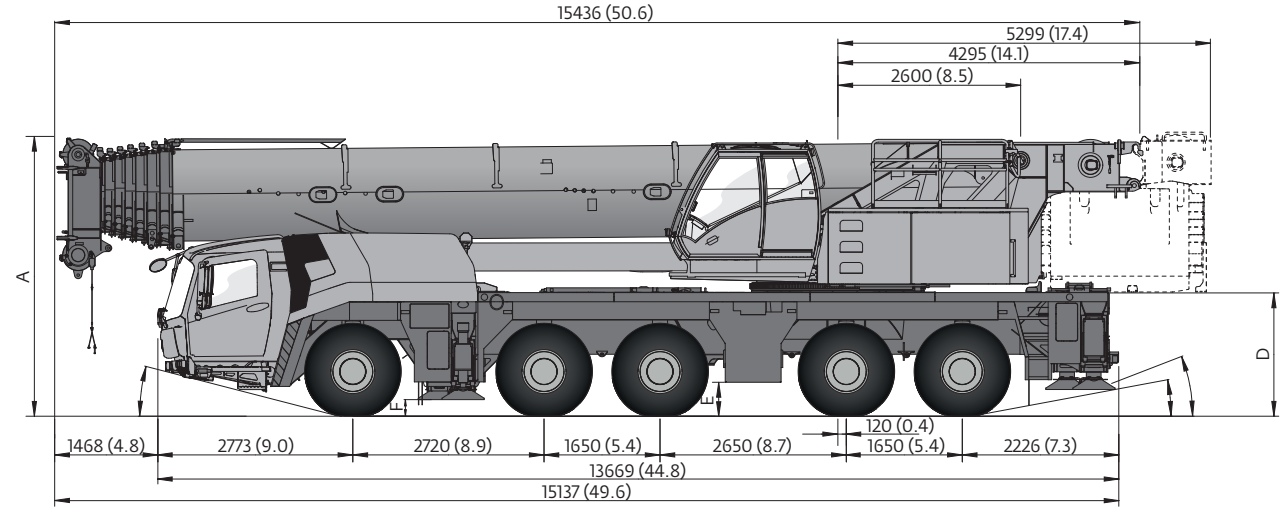
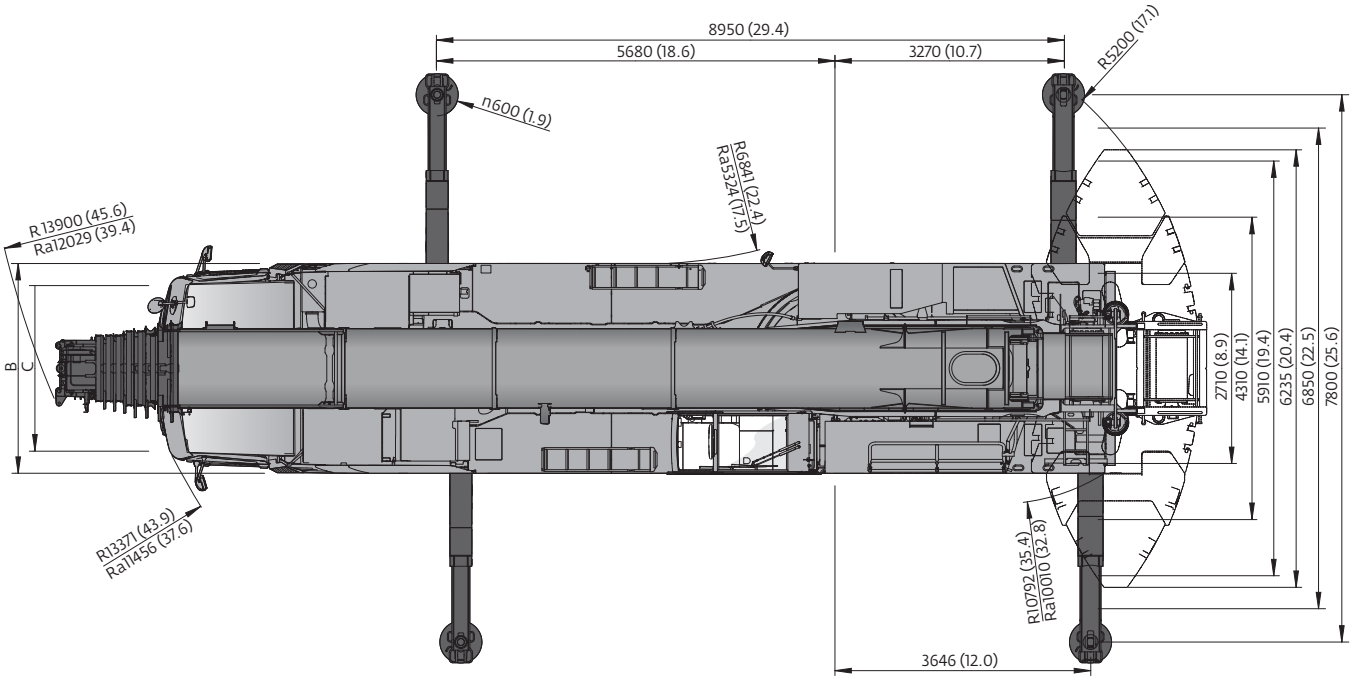
Dimensions





Dimensions shown are in mm (ft).

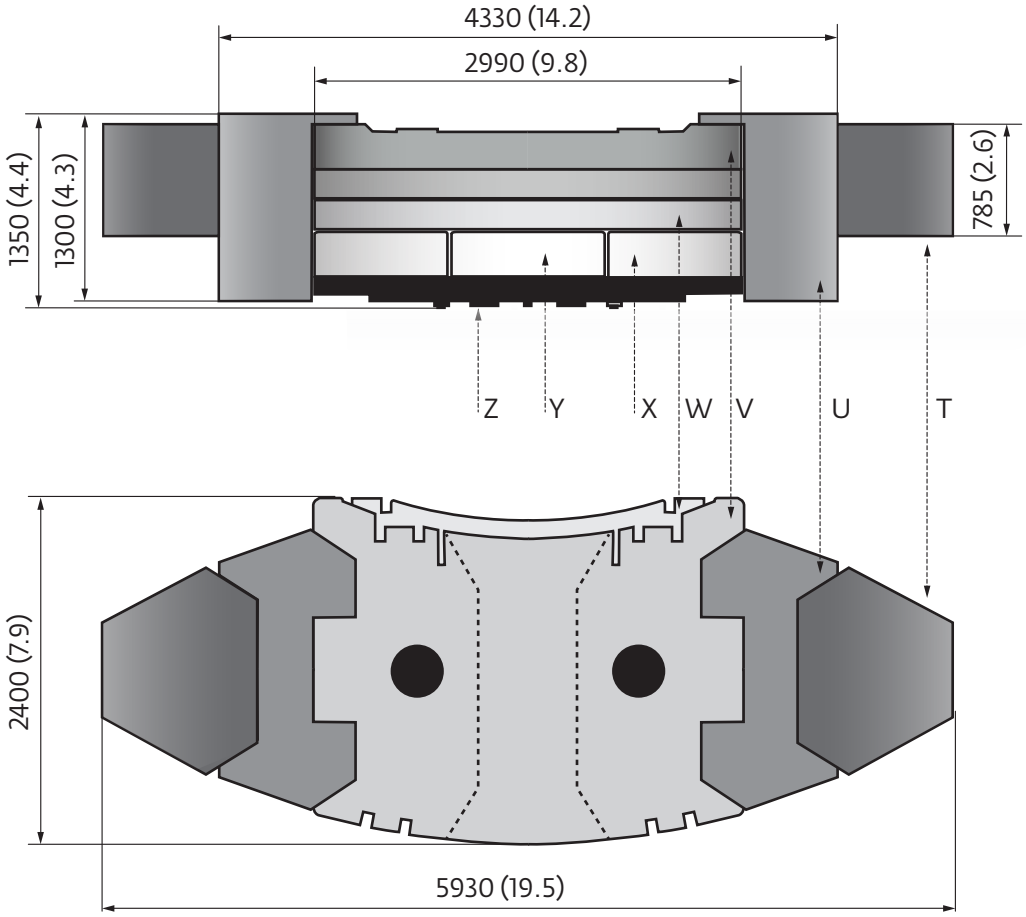
Ra = Radius all wheels steered

	A	A 130 mm**	B	C	D	E	F	α	β	β_1
385/95 R25	3950 (13.0)	3820 (12.5)	3000 (9.8)	2570 (8.4)	1822 (6.0)	486 (1.6)	228 (0.8)	14	8	6
445/95 R25	4000 (13.1)	3870 (12.7)	3000 (9.8)	2510 (8.2)	1872 (6.1)	536 (1.8)	278 (0.9)	16	10	8
525/80 R25	4000 (13.1)	3870 (12.7)	3100 (10.2)	2530 (8.3)	1872 (6.1)	536 (1.8)	278 (0.9)	16	10	8

** *Lowered*

Dimensions

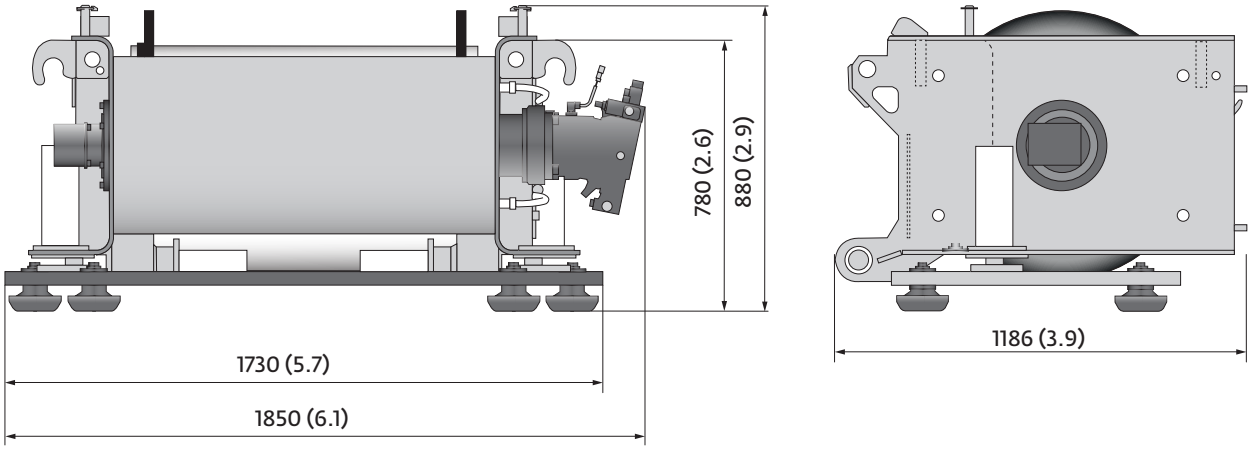
Counterweight



Dimensions shown are in mm (ft).

	Z 7,0 t (7.7 USt)	Y 4,5 t (5.0 USt)	X 4,75 t (5.2 USt)	W 9,5 t (10.5 USt)	V 10,0 t (11.0 USt)	U 10,0 t (11.0 USt)	T 5,0 t (5.5 USt)
7,0 t (7.7 USt)	x						
16,5 t (18.2 USt)	x		2 x				
21,0 t (23.1 USt)	x	x	2 x				
26,0 t (28.7 USt)	x		2 x	x			
30,5 t (33.6 USt)	x	x	2 x	x			
35,5 t (39.1 USt)	x		2 x	2 x			
40,0 t (44.1 USt)	x	x	2 x	2 x			
45,5 t (50.2 USt)	x		2 x	2 x	x		
50,0 t (55.1 USt)	x	x	2 x	2 x	x		
70,0 t (77.2 USt)	x	x	2 x	2 x	x	2 x	
80,0 t (88.2 USt)	x	x	2 x	2 x	x	2 x	2 x

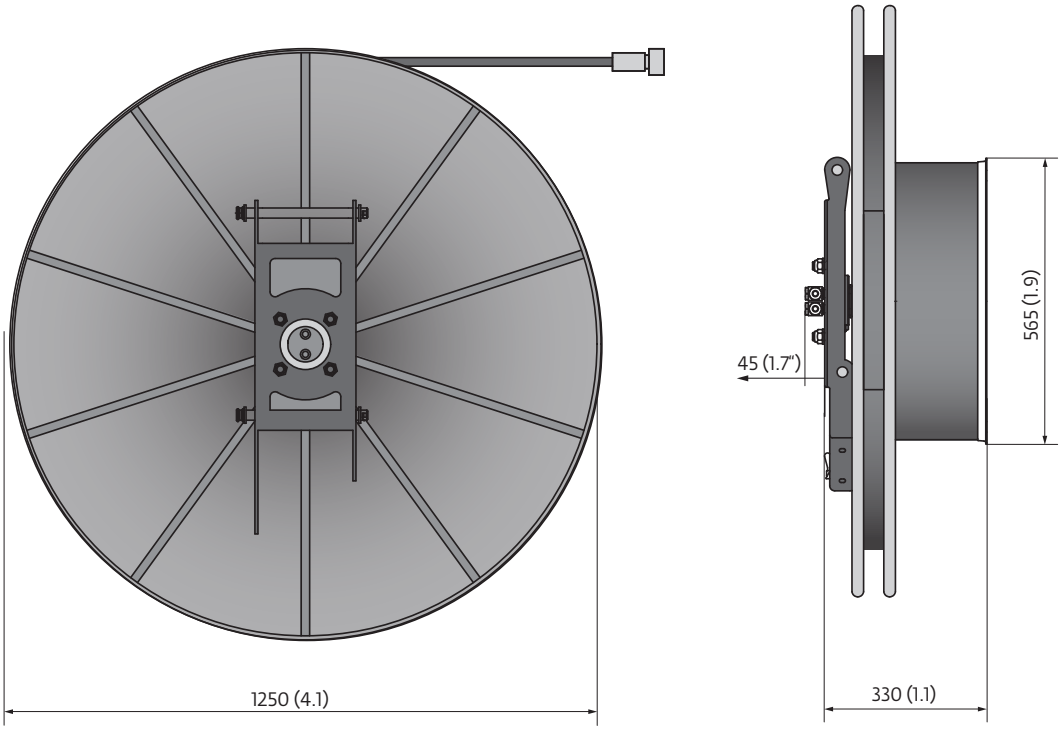
Auxiliary hoist



kg (lb)	2255 (4972)

Dimensions shown are in mm (ft).

Hose reel



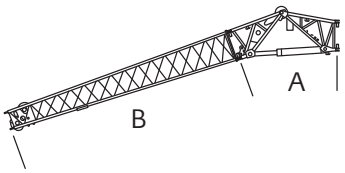
kg (lbs)	185 (408)

Dimensions shown are in mm (ft).

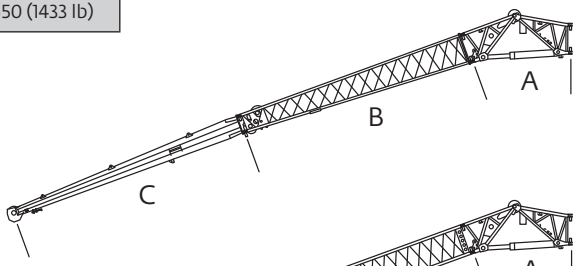
Dimensions

Jib combinations

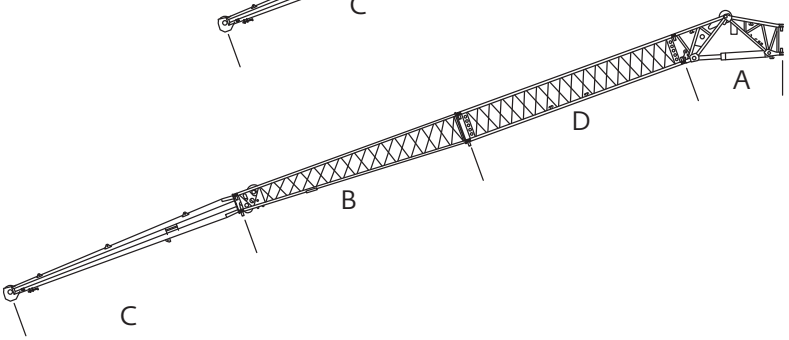
	L x W x h	kg lb
A	3,8 x 0,8 x 1,3 (12.5' x 2.6' x4.3')	950 (2094 lb)
B	8,5 x 0,8 x 1,1 (27.9' x 2.6' x 3.6')	575 (1268 lb)
C	6,9 x 0,5 x 0,7 (22.6' x 1.6' x 2.3')	350 (772 lb)
D	9,0 x 0,8 x 1,1 (29.5' x 2.6' x 3.6')	525 (1157 lb)
E	8,1 x 0,8 x 1,1 (26.6' x 2.6' x 3.6')	650 (1433 lb)



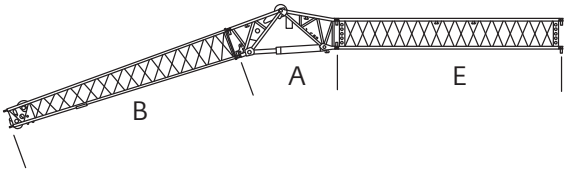
11,2 m (37 ft)



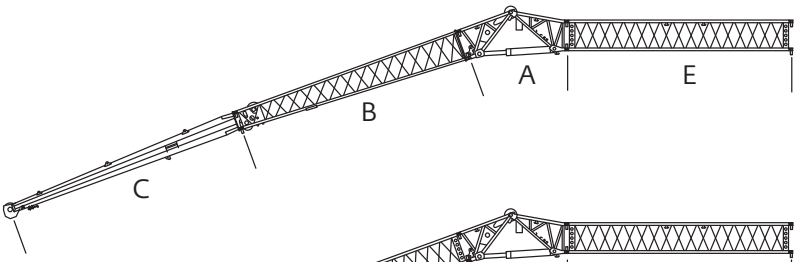
17,8 m (58 ft)



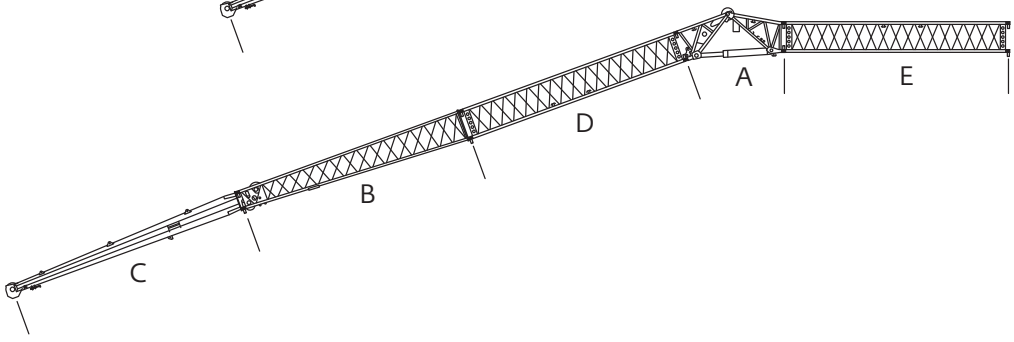
25,8 m (85 ft)



19,2 m (63 ft)



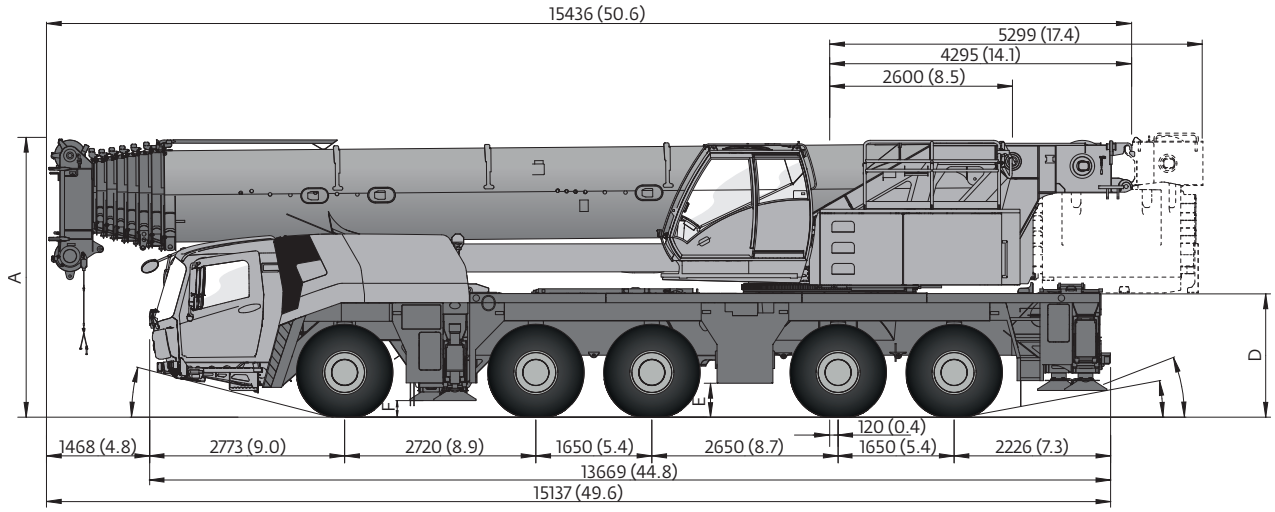
25,8 m (85 ft)



33,8 m (111 ft)

Dimensions shown are in mm (ft).

Boom over front

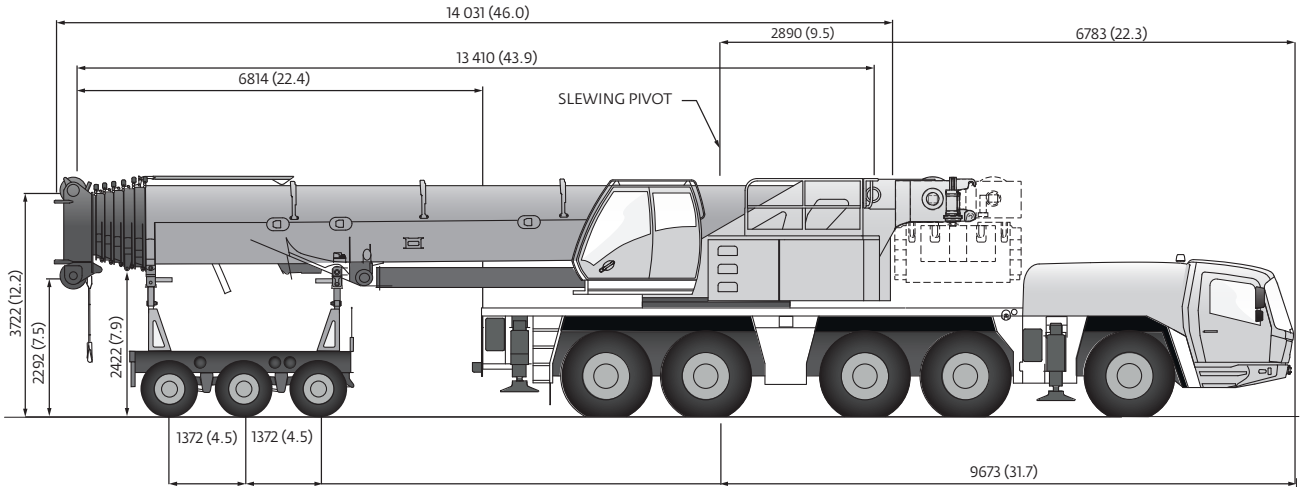


Dimensions shown are in mm (ft).

Basic Weights — kg (lb)	Axles 1 and 2	Axles 3 – 5	Total
Mercedes-Benz power T4f, VIAB, 16.00 R25 tires on aluminum, 10 x 6 x 10 drive/steer, 2nd oil cooler, nylatron outrigger pads, full fuel tank.	23.820 kg (52,514 lb)	35.190 kg (77,580 lb)	59.020 kg (130,110 lb)
Additions			
10 x 8 x 10 drive/steer	182 kg (401 lb)	209 kg (460 lb)	209 kg (861 lb)
Spare wheel 14.00 R25 XGC steel rim with stowage	-224 kg (-493 lb)	509 kg (1122 lb)	285 kg (628 lb)
Spare wheel 16.00 R25 XGC steel rim with stowage	-265 kg (-585 lb)	603 kg (1330 lb)	338 kg (745 lb)
Spare wheel 20.5 R25 XGC steel rim with stowage	-315 kg (-694 lb)	716 kg (1578 lb)	401 kg (884 lb)
Brackets for hydraulic swingaway	105 kg (232 lb)	2 kg (4 lb)	107 kg (236 lb)
Hose reel for hydraulic swingaway	270 kg (596 lb)	85 kg (-188 lb)	185 kg (408 lb)
11,2 m – 17,8 m (37 ft – 58 ft) hydraulic swingaway	1537 kg (3389 lb)	11 kg (23 lb)	1548 kg (3412 lb)
Auxiliary hoist	-2098 kg (-4626 lb)	4353 kg (9597 lb)	2255 kg (4971 lb)
7000 kg (15,400 lb) base plate stowed on carrier	4770 kg (10,515 lb)	1943 kg (4284 lb)	6713 kg (14,800 lb)
7000 kg (15,400 lb) base plate fixed to turntable	-5306 kg (-11,700 lb)	4349 kg (26,500 lb)	6713 kg (14,800 lb)
Substitutions			
14.00 R25 tires	-212 kg (-468 lb)	-318 kg (-702 lb)	-530 kg (-1170 lb)
20.5 R25 tires	252 kg (556 lb)	378 kg (834 lb)	630 kg (1390 lb)
Removals			
Boom assembly w/o lift cylinder	-14.994 kg (-33,055 lb)	-6518 kg (-14,370 lb)	-21.512 kg (-47,426 lb)
Front outriggers	-2063 kg (-4549 lb)	-15 kg (-34 lb)	-2078 kg (-4583 lb)
Rear outriggers	1772 kg (3907 lb)	-4349 kg (-9588 lb)	-2577 kg (-5681 lb)
Front and rear nylatron outrigger floats	-21 kg (-46 lb)	-179 kg (-394 lb)	-200 kg (-441 lb)

Weights

Trailing Boom



Dimensions shown are in mm (ft).

Basic Weights — kg (lb)	Axles 1 and 2	Axles 3–5	Dolly	Total
Mercedes-Benz power T4f, VIAB: 20.5 R25 tires, 10 x 8 x 10 drive/steer, 1,2 m – 17,8 m (37 – 58 ft) hydraulic luffing swingaway, 2-line boom nose, 2nd oil cooler, nylatron outrigger pads, auxiliary hoist, full fuel tank, 3-axle boom dolly (4300 kg/9400 lb)	18 980 kg (41,840 lb)	30 180 kg (66,510 lb)	18 330 kg (40,440 lb)	67 370 kg (148,500 lb)
Additions				
7000 kg (15,400 lb) base plate stowed on carrier	4770 kg (10,515 lb)	1943 kg (4285 lb)	0 kg (0 lb)	6713 kg (14,800 lb)
7000 kg (15,400 lb) base plate fixed to turntable	4770 kg (10,515 lb)	1943 kg (4285 lb)	0 kg (0 lb)	6713 kg (14,800 lb)
Removals				
Brackets for hydraulic swingaway incl. hose reel	400 kg (880 lb)	-691 kg (-1524 lb)	-260 kg (-573 lb)	-292 kg (-644 lb)
11,2 m – 17,8 m (37 ft – 58 ft) hydraulic swingaway	1661 kg (3662 lb)	-3208 kg (-7074 lb)	-880 kg (-1940 lb)	-1548 kg (-3413 lb)
Auxiliary hoist	-1917 kg (-4227 lb)	-337 kg (-744 lb)	0 kg (0 lb)	-2254 kg (-4971 lb)
2-line boom nose	18 kg (40 lb)	27 kg (60 lb)	-260 kg (-574 lb)	-215 kg (-474 lb)
Front outriggers	-2063 kg (-4549 lb)	-15 kg (-34 lb)	0 kg (0 lb)	-2078 kg (-4583 lb)
Rear outriggers	1772 kg (3907 lb)	-4349 kg (-9588)	0 kg (0 lb)	-2577 kg (-5681 lb)
Front and rear nylatron outrigger floats	-21 kg (-46 lb)	-179 kg (-394 lb)	0 kg (0 lb)	-200 kg (-441 lb)
Substitutions				
10 x 6 x 10 drive/steer	-182 kg (-401 lb)	-208 kg (-460 lb)	0 kg (0 lb)	-390 kg (-861 lb)
14.00 R25 tires	-464 kg (-1023 lb)	-696 kg (-1535 lb)	0 kg (0 lb)	-1160 kg (-2558 lb)
16.00 R25 tires	-252 kg (-555 lb)	-378 kg (-834 lb)	0 kg (0 lb)	-630 kg (-1389 lb)

Lifting Capacity	Sheaves	Weight	Parts of line	Possible load with crane
200 t (220 USt)	9	2400 kg (5291 lb)	2 – 18 ▪	180 t (198 USt) ▪
160 t (176 USt)	7	1750 kg (3858 lb)	2 – 15	150 t (165 USt)
125 t (137 USt)	5	1650 kg (3638 lb)	2 – 11	110 t (121 USt)
80 t (88 USt)	3	950 kg (2095 lb)	2 – 7	70 t (77 USt)
32 t (35 USt)	1	600 kg (1323 lb)	2 – 3	30 t (33 USt)
12 t (13 USt)	Overhaul Weight	300 kg (662 lb)	1	10 t (11 USt)

▪ *0° over rear with additional equipment*

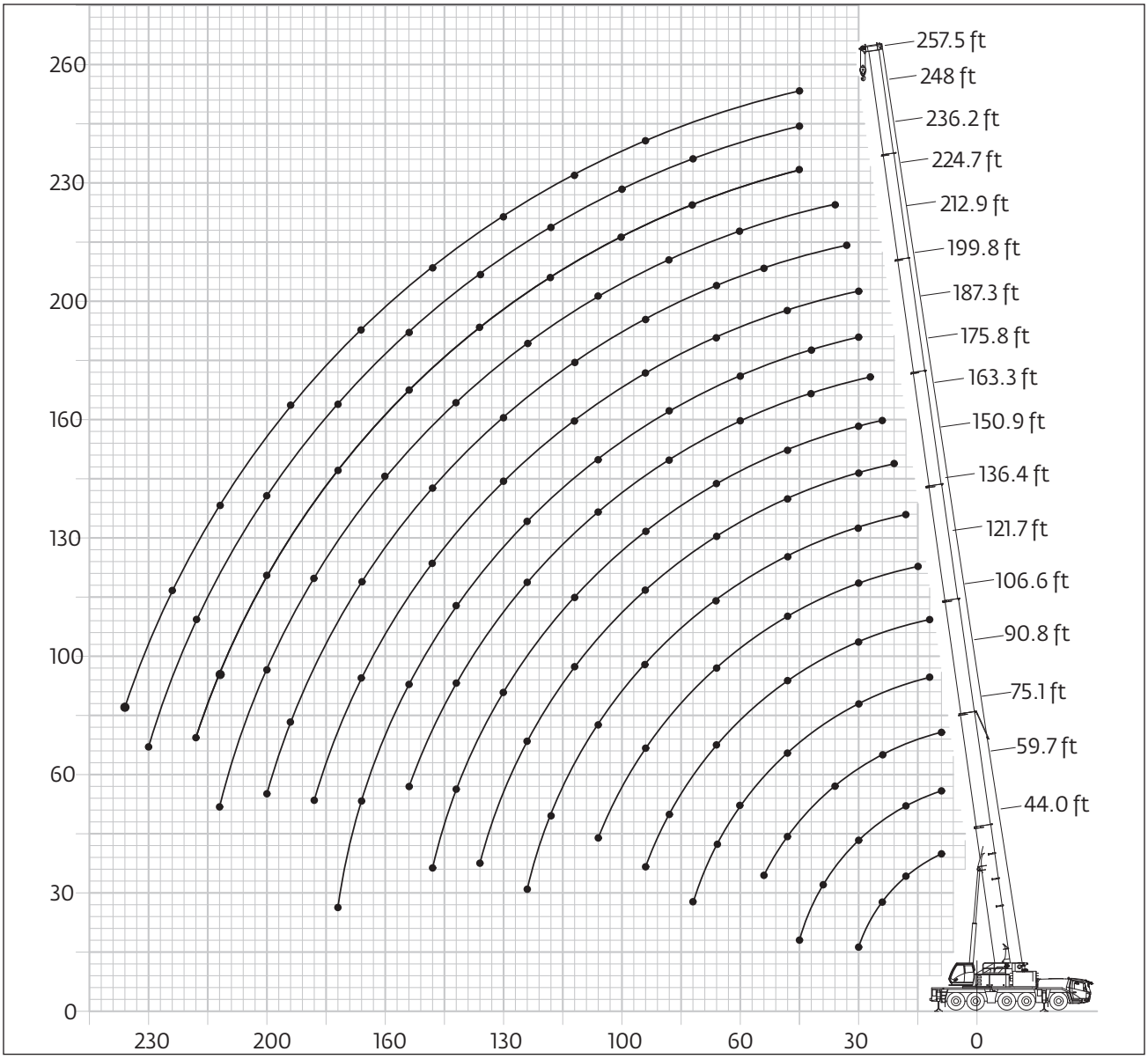
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	R	
mp/h	4.2	5.1	6.5	7.6	9.4	11.4	13.7	16.5	18.7	22.6	27.7	33.8	41.4	49.9	52.8	52.8	3.7	50%
	14.00R25 (385/95R25), 16.00R25 (445/95R25), 20.5R25 (525/80R25)																	

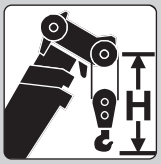
** Theoretical gradeability*

	Infinitely variable		Rope	Max. single line pull
1	0 – 125 m/min (0 – 410 FPm)	Single line	22 mm/300 m (984 ft)	93.5 kN (21,020 lb)
2	0 – 125 m/min (0 – 410 FPm)	Single line	22 mm/300 m (1083 ft)	93.5 kN (21,020 lb)
	0 – 1,45 min^{-1}			
	-1,5° to + 82°	approx. 65 s		
	13,4 to 78,5 m (44 to 157.5 ft)	approx. 600 s		

Working range
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft) | 7,8 m (25.6 ft) | 360° | 80 t (176,300 lb)





Hook block t (USt)	H
200 D (220 D)	3800 mm (12.5 ft)
160 D (176 D)	3650 mm (12.0 ft)
125 D (138 D)	3600 mm (11.8 ft)
80 E/D (88 E/D)	3600 mm (11.8 ft)
32 E (35 E)	3400 mm (11.2 ft)
12 H/B (13 H/B)	2800 mm (9.2 ft)

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Load charts
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

80 t (176,300 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	188.3	199.7	212.9	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	284.0	282.0	256.0	213.0													
20	232.0	230.0	228.0	210.0	160.0	134.0											
25	195.0	195.0	194.0	191.0	160.0	129.0	110.0										
30	166.0	166.0	165.0	164.0	150.0	125.0	109.0	91.0	76.0								
35		144.0	143.0	142.0	140.0	122.0	105.0	89.0	76.0	64.0							
40		126.0	125.0	124.0	125.0	114.0	98.0	84.0	73.0	64.0	54.0	47.0					
45		109.0	110.0	109.0	110.0	106.0	92.0	80.0	68.0	63.0	54.0	47.0	38.0				
50			97.0	97.0	97.0	98.0	86.0	75.0	63.0	59.0	53.0	47.0	38.0	33.0	32.0	24.2	
55			86.0	87.0	86.0	88.0	80.0	70.0	59.0	56.0	51.0	46.0	38.0	33.0	32.0	24.2	22.0
60			79.0	78.0	77.0	79.0	75.0	66.0	56.0	52.0	48.0	44.0	37.8	33.0	32.0	24.2	22.0
65				71.0	69.0	71.0	71.0	62.0	52.0	49.0	45.0	42.4	36.8	33.0	32.0	24.2	22.0
70				64.0	63.0	64.0	66.0	58.0	48.0	45.0	42.4	40.4	35.2	32.2	31.4	24.2	22.0
75				57.0	57.0	59.0	60.0	55.0	45.0	42.0	39.6	38.2	33.8	31.2	30.2	24.2	22.0
80					55.0	54.0	55.0	52.0	42.2	38.8	37.2	36.2	32.4	30.0	28.8	24.2	21.8
85					51.0	49.0	51.0	50.0	40.4	36.4	34.6	34.2	31.0	28.8	27.4	23.4	21.2
90					46.0	46.0	47.0	47.0	38.8	34.0	32.4	32.2	29.6	27.6	26.2	22.6	20.6
95						43.2	43.0	45.0	37.2	31.8	30.4	30.4	28.4	26.6	25.0	21.8	19.8
100						40.8	39.4	41.2	36.0	29.8	28.6	28.6	26.8	25.4	24.0	21.0	19.2
110							35.4	35.4	33.4	26.6	25.2	25.2	24.0	23.4	21.8	19.4	17.8
120							31.0	30.6	31.2	23.4	22.0	22.0	21.2	20.6	20.2	18.0	16.4
130								27.6	27.6	21.0	19.6	19.6	18.6	18.6	18.4	16.4	15.0
140									24.2	19.8	17.8	17.6	16.6	16.8	16.8	15.2	13.8
150									16.2	18.4	16.2	15.8	14.8	15.0	15.2	14.0	12.8
160										16.8	14.8	14.2	13.4	13.4	13.8	13.2	11.8
170											13.6	12.8	12.0	12.2	12.4	12.2	10.8
180												11.4	10.8	10.8	11.2	11.2	9.8
190													9.6	9.8	10.0	10.0	9.0
200														9.0	9.0	9.0	8.2
210															8.2	8.2	7.4
220																7.4	6.6
230																	6.0
240																	4.0

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Load charts
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

70 t (154,300 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	188.3	199.7	212.9	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	282.0	278.0	256.0	213.0													
20	230.0	228.0	226.0	210.0	160.0	134											
25	192.0	192.0	191.0	190.0	160.0	129	110.0										
30	163.0	163.0	162.0	161.0	150.0	125	109.0	91.0	76.0								
35	57.0	140.0	140.0	139.0	140.0	122	105.0	89.0	76.0	64.0							
40		122.0	121.0	119.0	121.0	114	98.0	84.0	73.0	64.0	54.0	47.0					
45		107.0	105.0	106.0	105.0	106	92.0	80.0	68.0	63.0	54.0	47.0	38.0				
50		60.0	93.0	93.0	92.0	93	86.0	75.0	63.0	59.0	53.0	47.0	38.0	33.0	28.6	24.2	
55			83.0	83.0	81.0	82	80.0	70.0	59.0	56.0	51.0	46.0	38.0	33.0	28.6	24.2	21.8
60			75.0	74.0	73.0	73	74.0	66.0	56.0	52.0	48.0	44.0	37.8	33.0	28.6	24.2	21.8
65			56.0	67.0	68.0	66	66.0	62.0	52.0	49.0	45.0	42.4	36.8	33.0	28.6	24.2	21.8
70				59.0	61.0	60	60.0	58.0	48.0	45.0	42.4	40.4	35.2	32.2	28.6	24.2	21.8
75				53.0	55.0	56	54.0	55.0	45.0	42.0	39.6	38.2	33.8	31.2	28.6	24.2	21.8
80				41.0	50.0	52	50.0	51.0	42.2	38.8	37.2	36.2	32.4	30.0	27.8	24.2	21.6
85					45.0	47	45.0	47.0	40.4	36.4	34.6	34.2	31.0	28.8	27.0	23.4	21.0
90					41.0	42.8	43.0	43.0	38.8	34.0	32.4	32.2	29.6	27.6	26.0	22.6	20.4
95					33.8	39.2	41.0	39.4	37.2	31.8	30.4	30.4	28.4	26.6	25.0	21.8	19.8
100						36.2	37.8	36.2	36.0	29.8	28.6	28.6	26.8	25.4	24.0	21.0	19.2
110						25.4	32.4	31.0	32.0	26.6	25.2	25.2	24.0	23.4	21.8	19.4	17.8
120							28.0	29.0	27.4	23.4	22.0	22.0	21.2	20.6	20.2	18.0	16.4
130								25.4	23.4	21.0	19.6	19.6	18.6	18.6	18.4	16.4	15.0
140								14.8	20.2	19.8	17.8	17.6	16.6	16.8	16.8	15.2	13.8
150									16.2	18.2	16.2	15.2	14.8	15.0	15.2	14.0	12.8
160										15.8	14.0	12.8	12.8	13.4	13.8	13.2	11.8
170											12.0	10.6	10.8	12.0	12.4	12.2	10.8
180												8.8	8.8	10.8	10.6	10.8	9.8
190												2.4	7.2	9.8	9.6	9.2	9.0
200													5.4	8.4	8.8	7.8	7.6
210															7.4	6.4	6.2
220															6.2	5.2	5.0
230																	4.0
240																	2.8

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Load charts
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

50 t (110,200 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	175.8	188.3	199.7	212.9	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0													
15	276.0	272.0	256.0	213.0												
20	224.0	220.0	220.0	210.0	160.0	134.0										
25	185.0	185.0	184.0	183.0	160.0	129.0	110.0									
30	153.0	154.0	153.0	148.0	143.0	125.0	109.0	91.0								
35	57.0	129.0	127.0	125.0	117.0	114.0	105.0	89.0	64.0							
40		110.0	110.0	104.0	102.0	96.0	95.0	84.0	64.0	54.0	47.0					
45		92.0	93.0	88.0	87.0	87.0	82.0	80.0	63.0	54.0	47.0	38.0				
50		60.0	78.0	79.0	76.0	76.0	71.0	71.0	59.0	53.0	47.0	38.0	33.0	29.6	24.2	
55			67.0	70.0	66.0	67.0	66.0	63.0	56.0	51.0	46.0	38.0	33.0	29.6	24.2	22.0
60			58.0	60.0	61.0	59.0	60.0	56.0	52.0	48.0	44.0	37.8	33.0	29.6	24.2	22.0
65			50.0	53.0	55.0	53.0	54.0	50.0	46.0	45.0	42.4	36.8	33.0	29.6	24.2	22.0
70				47.0	49.0	47.0	48.0	45.0	41.2	40.2	40.4	35.2	32.2	29.2	24.2	22.0
75				41.4	43.8	42.4	43.8	40.6	37.0	37.6	36.8	33.8	31.2	28.6	24.2	22.0
80				34.2	39.2	37.8	39.8	36.8	33.4	35.2	33.2	32.4	30.0	27.8	24.2	21.8
85					35.2	34.0	36.0	33.4	31.0	32.0	30.0	29.6	28.8	27.0	23.4	21.2
90					31.8	30.6	32.6	30.4	29.6	29.2	27.4	27.0	27.2	26.0	22.6	20.6
95					28.8	27.4	29.6	27.6	28.4	26.6	24.8	24.4	24.8	25.0	21.8	19.8
100						24.8	26.8	25.0	26.8	24.4	22.6	22.2	23.6	23.2	21	19.2
110						20.4	22.2	20.4	22.8	20.4	18.8	18.4	21.0	18.6	19.4	17.8
120							18.6	16.6	19.0	17.2	15.6	15.2	17.8	17.0	16.6	16.2
130								13.6	15.8	14.0	12.8	12.6	15.2	15.4	14.0	13.6
140								11.0	13.2	11.4	10.2	10.2	12.8	13.0	11.6	11.4
150									11.0	9.2	7.8	8.0	10.6	11.0	9.8	9.4
160									9.0	7.2	6.0	6.0	8.8	9.2	8.0	7.8
170										5.6	4.2	4.4	7.0	7.4	6.4	6.2
180											2.8	2.8	5.4	6.0	4.8	4.6
190													4.2	4.6	3.6	3.4
200													3.0	3.4	2.4	2.2
210														2.4		

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Load charts
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

45,5 t (100,300 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	188.3	199.7	212.9	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	274.0	272.0	256.0	213.0													
20	222.0	220.0	218.0	210.0	160.0	134.0											
25	183.0	181.0	182.0	179.0	160.0	129.0	110.0										
30	149.0	146.0	149.0	144.0	134.0	125.0	109.0	91.0	76.0								
35	57.0	126.0	124.0	117.0	114.0	107.0	105.0	89.0	76.0	64.0							
40		104.0	103.0	97.0	96.0	95.0	89.0	84.0	73.0	64.0	54.0	47.0					
45		86.0	86.0	86.0	82.0	81.0	76.0	76.0	68.0	63.0	54.0	47.0	38.0				
50		60.0	75.0	75.0	72.0	71.0	71.0	67.0	63.0	59.0	53.0	47.0	38.0	33.0	28.6	24.2	
55			64.0	64.0	66.0	62.0	63.0	59.0	55.0	54.0	51.0	46.0	38.0	33.0	28.6	24.2	22.0
60			56.0	56.0	58.0	56.0	55.0	52.0	52.0	47.0	46.0	44.0	37.8	33.0	28.6	24.2	22.0
65			49.0	49.0	51.0	52.0	50.0	46.0	47.0	42.0	42.4	41.6	36.8	33.0	28.6	24.2	22.0
70				42.8	45.0	48.0	45.0	41.4	42.0	37.6	39.4	37.2	35.2	32.2	28.6	24.2	22.0
75				37.8	40.2	42.6	40.2	37.2	38.0	34.4	35.4	33.4	32.8	31.2	28.6	24.2	22.0
80				33.6	36.0	38.4	36.4	33.6	34.4	32.8	32.0	30.0	29.6	29.8	27.8	24.2	21.8
85					32.2	34.6	33.0	30.4	31.2	31.0	29.0	27.2	26.8	27.0	27.0	23.4	21.2
90					29.0	31.2	29.8	27.6	28.4	28.8	26.4	24.6	24.2	26.0	25.0	22.6	20.6
95					26.2	28.4	26.8	25.0	26.0	26.4	24.0	22.2	21.8	24.4	22.8	21.8	19.8
100						25.8	24.4	22.4	23.8	24.2	21.8	20.0	19.8	22.2	20.8	20.8	19.2
110						18.0	20.0	18.0	19.6	20.4	18.2	16.4	16.2	18.8	18.6	17.4	17.0
120							16.6	14.6	16.0	16.8	15.0	13.4	13.2	15.8	15.8	14.6	14.2
130								11.6	13.0	13.8	12.2	10.8	10.6	13.2	13.4	12.0	11.8
140								9.2	10.6	11.4	9.6	8.4	8.4	11.0	11.2	10.0	9.6
150									9.0	9.2	7.4	6.2	6.4	9.0	9.4	8.0	7.8
160										7.4	5.6	4.4	4.4	7.2	7.6	6.4	6.2
170											4.2	2.8	2.8	5.6	6.0	5.0	4.8
180														4.2	4.6	3.6	3.4
190														2.8	3.4	2.2	2.0
200															2.2		

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13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

40 t (88,100 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	188.3	199.7	212.9	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	272.0	270.0	256.0	213.0													
20	219.0	218.0	217.0	210.0	160.0	134.0											
25	179.0	179.0	178.0	165.0	158.0	129.0	110.0										
30	144.0	146.0	142.0	132.0	125.0	120.0	109.0	91.0	76.0								
35	57.0	119.0	114.0	108.0	105.0	104.0	97.0	89.0	76.0	64.0							
40		96.0	94.0	93.0	88.0	87.0	83.0	81.0	73.0	64.0	54.0	47.0					
45		79.0	78.0	79.0	79.0	74.0	74.0	70.0	66.0	63.0	54.0	47.0	38.0				
50		60.0	65.0	68.0	68.0	64.0	65.0	60.0	57.0	55.0	53.0	47.0	38.0	33.0	28.6	24.2	
55			55.0	58.0	59.0	56.0	57.0	53.0	53.0	48.0	48.0	46.0	38.0	33.0	28.6	24.2	21.8
60			47.0	50.0	52.0	49.0	50.0	49.0	47.0	42.4	44.0	41.6	37.8	33.0	28.6	24.2	21.8
65			41.0	43.6	46.0	43.6	45.0	45.0	42.0	38.4	39.2	37.0	36.2	33.0	28.6	24.2	21.8
70				38.2	40.6	38.8	40.0	40.8	37.6	36.4	35.0	33.0	32.4	32.2	28.6	24.2	21.8
75				33.6	36.0	34.6	36.0	36.8	33.8	34.0	31.4	29.4	28.8	29.4	28.6	24.2	21.8
80				29.6	32.0	30.6	32.4	33.4	30.4	30.8	28.2	26.4	25.8	28.2	26.6	24.2	21.6
85					28.4	27.2	29.4	30.4	27.6	28.0	25.4	23.6	23.2	25.6	24.0	23.4	21.0
90					25.6	24.2	26.2	27.8	25.0	25.4	23.0	21.2	20.8	23.4	22.2	21.8	20.4
95					23.0	21.6	23.6	25.2	22.6	23.0	20.8	19.0	18.6	21.2	21.2	19.8	19.0
100						19.2	21.2	22.8	20.6	21.0	18.8	17.0	16.8	19.4	19.4	18.0	17.2
110						15.4	17.2	18.8	16.8	17.6	15.2	13.6	13.4	16.0	16.2	14.8	14.0
120							14.0	15.4	13.4	14.4	12.4	10.8	10.6	13.2	13.4	12.0	11.4
130								12.6	11.0	11.6	9.8	8.4	8.4	10.8	11.0	9.8	9.2
140								7.2	10.0	9.2	7.4	6.2	6.2	8.8	9.0	7.8	7.2
150									9.0	7.2	5.6	4.2	4.4	7.0	7.4	6.0	5.6
160										5.6	3.8	2.6	2.6	5.4	5.8	4.6	4.0
170											2.4			3.8	4.2	3.2	2.8
180														2.4	3.0		

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Load charts

Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

35,5 t (78,200 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	188.3	199.7	212.9	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	270.0	270.0	256.0	213.0													
20	217.0	216.0	214.0	210.0	160.0	134.0											
25	175.0	175.0	168.0	159.0	147.0	129.0	110.0										
30	140.0	140.0	132.0	123.0	120.0	114.0	109.0	91.0	76.0								
35	57.0	110.0	106.0	104.0	97.0	96.0	90.0	89.0	76.0	64.0							
40		89.0	91.0	86.0	85.0	80.0	80.0	75.0	71.0	64.0	54.0	47.0					
45		73.0	75.0	73.0	72.0	71.0	68.0	64.0	60.0	58.0	54.0	47.0	38.0				
50		59.0	63.0	62.0	62.0	63.0	59.0	55.0	55.0	50.0	50.0	47.0	38.0	33.0	28.6	24.2	
55			53.0	53.0	54.0	55.0	52.0	52.0	49.0	43.6	45.0	42.8	38.0	33.0	28.6	24.2	21.8
60			46.0	46.0	48.0	49.0	46.0	46.0	42.8	40.6	39.8	37.6	36.8	33.0	28.6	24.2	21.8
65			39.4	39.4	42.0	43.4	40.4	41.4	38.0	38.2	35.4	33.2	32.6	32.6	28.6	24.2	21.8
70				34.4	36.8	38.8	36.2	37.0	34.0	34.2	31.4	29.4	28.8	30.6	28.6	24.2	21.8
75				30.0	32.4	34.8	32.4	33.4	30.4	30.6	28.0	26.0	25.6	28.0	26.4	24.2	21.8
80				26.4	28.6	31.0	29.0	30.2	27.2	27.6	25.0	23.2	22.8	25.4	24.6	23.6	21.6
85					25.4	27.8	26.2	27.4	24.6	25.0	22.4	20.6	20.4	22.8	22.8	21.2	20.6
90					22.6	25.0	23.4	24.8	22.2	22.6	20.2	18.4	18.0	20.6	20.8	19.2	18.4
95					20.2	22.4	20.8	22.6	20.0	20.4	18.0	16.4	16.0	18.6	18.8	17.2	16.6
100						20.2	18.6	20.2	18.0	18.4	16.2	14.6	14.2	16.8	17	15.6	14.8
110						15.6	15.0	16.4	14.4	15.2	13.0	11.4	11.2	13.8	14.0	12.6	11.8
120							12.0	13.4	12.2	12.2	10.2	8.8	8.6	11.2	11.4	10.0	9.4
130								10.8	11.0	9.6	7.8	6.6	6.4	9.0	9.2	7.8	7.2
140									10.0	7.4	5.8	4.4	4.4	7.0	7.2	6.0	5.4
150									9.0	5.6	3.8	2.6	2.8	5.4	5.6	4.4	3.8
160										4.0	2.2			3.8	4.2	3.0	2.4
170														2.4	2.8		

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13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

30.5 t (67,200 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	188.3	199.7	210.7	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	268.0	268.0	256.0	213.0													
20	214.0	213.0	213.0	193.0	160.0	134.0											
25	170.0	168.0	159.0	146.0	135.0	129.0	110.0										
30	127.0	129.0	121.0	118.0	110.0	107.0	100.0	91.0	76.0								
35	57.0	102.0	100.0	95.0	93.0	88.0	87.0	81.0	76.0	64.0							
40		80.0	82.0	78.0	77.0	77.0	72.0	67.0	63.0	61.0	54.0	47.0					
45		65.0	68.0	65.0	65.0	66.0	62.0	59.0	58.0	52.0	53.0	47.0	31.6				
50		52.0	56.0	56.0	56.0	57.0	53.0	54.0	50.0	46.0	46.0	43.4	30.4	33.0	28.6	24.2	
55			48.0	48.0	49.0	50.0	46.0	47.0	43.4	43.0	40.2	37.8	29.0	33.0	28.6	24.2	21.8
60			40.6	40.6	42.6	43.8	40.6	41.6	38.2	38.2	35.2	33.0	27.8	32.4	28.6	24.2	21.8
65			34.8	34.8	37.4	38.8	36.0	36.8	33.6	33.8	31.0	29.0	26.4	30.8	28.6	24.2	21.8
70				30.0	32.6	34.6	31.8	33.0	29.8	30.2	27.4	25.4	25.0	27.4	26.4	24.2	21.8
75				26.0	28.4	31.0	28.4	29.6	26.6	26.8	24.4	22.4	23.8	24.6	24.6	22.8	21.8
80				22.8	25.0	27.4	25.4	26.6	23.6	24.0	21.6	19.8	22.2	22.0	22.0	20.4	19.6
85					22.0	24.4	22.8	24.0	21.2	21.6	19.2	17.4	21.0	19.6	19.8	18.2	17.4
90					19.4	21.8	20.2	21.6	19.0	19.4	17.0	15.4	19.8	17.6	17.8	16.2	15.6
95					17.2	19.4	18.0	19.6	17.0	17.4	15.2	13.4	18.8	15.8	16.0	14.4	13.8
100						17.4	15.8	17.4	15.4	15.6	13.4	11.8	17.0	14.2	14.2	12.8	12.2
110						14.0	12.4	14.0	13.8	12.6	10.4	8.8	14.2	11.2	11.4	10.0	9.4
120							9.6	11.0	12.2	10.0	8.0	6.4	11.6	8.8	9.0	7.8	7.2
130								8.6	11.0	7.6	5.8	4.4	9.6	6.8	7.0	5.8	5.2
140									10.0	5.6	3.8	2.6	7.8	5.0	5.4	4.0	3.6
150									8.2	3.8	2.0		6.0	3.6	3.8	2.6	2.0
160										2.4			4.6	2.2	2.6		
170													3.2				
180													2.0				

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Load charts
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

26 t (57,300 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	187.3	199.7	210.7	224.7	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	268.0	266.0	256.0	213.0													
20	212.0	210.0	192.0	178.0	160.0	134.0											
25	165.0	157.0	146.0	135.0	123.0	120.0	110.0										
30	116.0	120.0	114.0	108.0	106.0	98.0	96.0	89.0	76.0								
35	57.0	94.0	91.0	86.0	85.0	84.0	79.0	73.0	69.0	64.0							
40		74.0	74.0	70.0	70.0	70.0	66.0	62.0	61.0	55.0	54.0	47.0					
45		60.0	61.0	59.0	59.0	60.0	56.0	56.0	52.0	48.0	48.0	45.0	31.6				
50		48.0	51.0	50.0	50.0	51.0	48.0	48.0	45.0	44.0	41.2	38.6	30.4	33.0	28.6	24.2	
55			42.4	42.4	43.4	45.0	41.4	42.2	38.6	38.8	35.6	33.4	29.0	32.6	28.6	24.2	21.8
60			36.0	36.0	37.8	39.2	36.2	37.2	33.8	34.0	31.0	29.0	27.8	30.8	28.6	24.2	21.8
65			30.6	30.6	33.2	34.6	31.8	32.8	29.6	30.0	27.2	25.2	26.4	27.2	26.4	24.2	21.8
70				26.2	28.8	30.6	28.0	29.2	26.2	26.4	23.8	22.0	25.0	24.0	24.0	22.4	21.4
75				22.6	25.0	27.4	24.8	26.0	23.0	23.4	21.0	19.2	23.8	21.2	21.4	19.8	19.0
80				19.4	21.8	24.2	22.0	23.2	20.4	20.8	18.4	16.6	22.0	18.8	19.0	17.4	16.6
85				14.8	19.0	21.4	19.6	20.8	18.6	18.6	16.2	14.4	19.8	16.8	16.8	15.4	14.6
90					16.6	18.8	17.4	18.6	17.4	16.6	14.2	12.6	18.0	14.8	15.0	13.6	12.8
95					14.6	16.6	15.2	16.8	16.4	14.6	12.4	10.8	16.2	13.2	13.4	12.0	11.2
100						14.8	13.2	14.8	15.4	13.0	10.8	9.2	14.6	11.6	11.8	10.4	9.8
110						11.6	10.0	11.6	13.8	10.2	8.0	6.6	11.8	9.0	9.2	7.8	7.2
120							7.6	9.0	12.2	7.8	5.8	4.2	9.6	6.8	7.0	5.8	5.2
130								6.8	10.2	5.6	3.8	2.4	7.6	4.8	5.2	3.8	3.4
140									8.2	3.8	2.0		6.0	3.2	3.6	2.2	
150									6.6	2.2			4.4		2.2		
160													3.0				

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13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

21 t (46,200 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	106.5	121.7	136.4	150.8	163.3	175.8	187.3	199.7	210.7	226.4	236.2	248.2	257.5
10	308.0	286.0	286.0														
15	266.0	264.0	256.0	213.0													
20	208.0	196.0	182.0	168.0	151.0	134.0											
25	148.0	143.0	132.0	127.0	117.0	113.0	104.0										
30	103.0	108.0	103.0	96.0	94.0	93.0	86.0	80.0	74.0								
35	57.0	84.0	81.0	76.0	79.0	75.0	70.0	65.0	64.0	58.0							
40		66.0	66.0	62.0	66.0	63.0	58.0	58.0	54.0	51.0	49.0	46.0					
45		54.0	54.0	51.0	56.0	53.0	49.0	50.0	45.0	45.0	41.8	39.0	31.6				
50		40.4	44.0	43.2	48.0	45.0	41.8	42.6	38.8	38.8	35.6	33.2	30.4	28.0	28.6	24.2	
55			36.8	36.8	41.6	39.2	36.0	37.0	33.6	33.6	30.6	28.4	29.0	27.8	28.2	24.2	21.8
60			31.0	30.8	36.4	34.0	31.2	32.4	29.0	29.2	26.4	24.4	27.8	26.8	26.2	24.2	21.8
65			26.0	26.0	32.0	29.8	27.2	28.4	25.2	25.6	23.0	21.0	26.4	24.6	23.0	21.2	20.4
70				22.0	27.8	26.4	23.8	25.0	22.0	22.4	20.0	18.0	23.4	21.8	20.2	18.6	17.8
75				18.6	24.2	23.4	21.0	22.2	19.2	19.8	17.2	15.4	21.0	19.2	17.8	16.2	15.4
80				15.8	21.4	20.6	18.4	19.6	16.8	17.4	15.0	13.2	18.6	17.0	15.6	14.2	13.4
85					18.8	18.0	16.2	17.4	14.8	15.2	13.0	11.2	16.6	15.0	13.8	12.2	11.6
90					16.6	15.6	14.2	15.4	12.8	13.4	11.2	9.4	14.8	13.4	12.0	10.6	10.0
95					14.6	13.8	12.2	13.6	11.2	11.8	9.4	7.8	13.2	11.8	10.6	9.2	8.4
100						12.0	10.4	12.0	9.6	10.2	8.0	6.4	11.8	10.4	9.2	7.8	7.2
110						9.2	7.6	9.0	7.0	7.6	5.6	4.0	9.4	8.0	6.8	5.4	4.8
120							5.2	6.6	4.6	5.6	3.4		7.2	5.8	4.8	3.4	2.8
130								4.6	2.6	3.6			5.4	4.2	3.0		
140													4.0	2.6			
150													2.6				

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Load charts
Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

16,5 t (36,300 lb)

Pounds x 1000

Feet	44.0	59.6	75.2	90.9	106.1	121.7	135.2	146.7	162.3	172.3	184.1	195.1	210.7	226.4	235.7	248.2	257.5
10	308.0	286.0	286														
15	264.0	262.0	256	213.0													
20	200.0	184.0	168	152.0	144.0	130.0											
25	133.0	129.0	124	114.0	111.0	103.0	99.0										
30	91.0	98.0	92	86.0	88.0	83.0	77.0	68.0	66.0								
35	57.0	74.0	72	68.0	72.0	67.0	62.0	62.0	57.0	54.0							
40		59.0	58	54.0	59.0	55.0	51.0	52.0	47.0	47.0	46.0	34.2					
45		47.0	47	45.0	50.0	47.0	43.0	43.8	39.8	40.0	40.2	32.6	31.6				
50		37.4	38.4	37.4	42.2	39.6	36.4	37.4	33.6	34.2	34.4	31.0	30.4	28.0	26.4	24.2	
55			31.8	31.4	36.4	34.0	31.2	32.2	28.8	29.4	29.8	29.4	29.0	27.4	25.8	23.8	21.8
60			26.4	26.2	31.6	29.6	26.8	28.0	24.8	25.4	25.8	27.6	25.8	23.8	22.4	20.6	19.6
65			21.8	21.8	27.6	25.6	23.2	24.4	21.4	22.0	22.6	24.4	22.6	20.8	19.4	17.6	16.8
70				18.2	24.0	22.4	20.0	21.2	18.4	19.2	19.8	21.6	20.0	18.2	16.8	15.2	14.4
75				15.2	20.8	19.6	17.4	18.6	15.8	16.6	17.2	19.2	17.6	16.0	14.6	13.0	12.4
80				12.6	18.0	17.2	15.0	16.4	13.6	14.4	15.2	17.0	15.6	14.0	12.6	11.2	10.4
85					15.6	14.8	13.0	14.2	11.6	12.6	13.2	15.2	13.8	12.2	11	9.4	8.8
90					13.6	12.8	11.2	12.6	10.0	10.8	11.6	13.4	12.2	10.6	9.4	8.0	7.2
95					11.8	11.0	9.6	11.0	8.4	9.4	10.0	12.0	10.6	9.2	8	6.6	6.0
100						9.4	8.0	9.6	7.0	8.0	8.6	10.6	9.4	7.8	6.6	5.4	4.8
110						6.8	5.2	6.8	4.6	5.6	6.4	8.2	7.0	5.6	4.6	3.2	2.6
120							3.2	4.6	2.6	3.6	4.4	6.2	5.2	3.8	2.6		
130								2.8			2.8	4.6	3.6	2.2			
140												3.2	2.2				

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13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

7 t (15,400 lb)

Pounds x 1000

Feet	44.0	59.6	75.3	90.9	105.2	119.5	135.2	146.7	162.3	172.3	184.8	195.1	210.7	226.4	235.7
10	308.0	286.0	286.0												
15	254.0	248.0	214.0	191.0											
20	161.0	146.0	137.0	123.0	117.0	112.0									
25	100.0	102.0	94.0	86.0	84.0	82.0	75.0								
30	67.0	73.0	68.0	63.0	63.0	63.0	57.0	57.0	52.0						
35	47.0	56.0	52.0	49.0	49.0	50.0	46.0	46.0	41.4	41.4					
40		42.8	41.0	38.6	39.4	40.6	36.8	37.6	33.6	34.0	31.6	34.2			
45		33.4	33.0	30.8	32.0	33.4	30.2	31.2	27.6	28.0	26.0	30.2	28.0		
50		25.2	26.2	25.0	26.4	28.0	25.0	26.2	22.8	23.4	21.6	25.6	23.6	21.6	20.0
55			20.8	20.2	21.8	23.4	20.8	22.0	18.8	19.6	17.8	22.0	20.2	18.2	16.8
60			16.6	16.4	18.0	19.8	17.4	18.6	15.6	16.4	14.8	19.0	17.2	15.4	14.0
65			13.0	13.0	15.0	16.8	14.4	15.6	12.8	13.8	12.2	16.2	14.8	13.0	11.6
70				10.0	12.4	14.2	12.0	13.2	10.6	11.4	10.0	14.0	12.6	11.0	9.6
75				7.6	10.0	12.0	9.8	11.2	8.6	9.4	8.0	12.0	10.6	9.2	7.8
80				5.6	7.8	10.0	8.0	9.4	6.8	7.6	6.4	10.4	9.0	7.6	6.2
85					6.0	8.4	6.4	7.8	5.2	6.2	4.8	8.8	7.6	6.0	4.8
90					4.4	6.8	5.0	6.2	3.8	4.8	3.6	7.6	6.2	4.8	3.6
95					3.0	5.2	3.6	5.0	2.6	3.6	2.4	6.4	5.0	3.6	2.6
100						4.0	2.6	3.8		2.4		5.2	4.0	2.6	
110						2.0						3.4	2.2		

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Load charts

Main boom

13,4 m – 78,5 m (44 ft – 257.5 ft)

7,8 m (25.6 ft)

360°

0 t (0 lb)

Pounds x 1000

Feet	44.0	59.6	75.2	90.4	103.9	119.5	129.5	146.7	157.7	172.3	184.1	195.1	210.7
10	308.0	286.0	286.0										
15	244.0	213.0	182.0	163.0									
20	127.0	120.0	108.0	97.0	99.0	89.0	56.0						
25	77.0	79.0	72.0	66.0	70.0	64.0	51.0						
30	50.0	57.0	52.0	48.0	53.0	48.0	46.0	44.0	46.0				
35	33.4	42.2	38.6	35.8	41.2	37.8	41.2	34.6	38.2	30.8			
40		31.4	29.4	27.4	32.8	30.0	34.4	27.8	31.4	24.6	24.8	26.6	
45		23.6	22.8	21.0	26.6	24.2	28.6	22.4	26.2	19.8	20.2	22.0	20.0
50		14.2	17.8	16.2	21.6	19.6	24.0	18.2	22.0	15.8	16.4	18.4	16.6
55			13.2	12.4	17.8	16.0	20.4	14.8	18.6	12.8	13.4	15.4	13.6
60			9.8	9.4	14.6	13.0	17.2	12.0	15.8	10.0	10.8	12.8	11.2
65			6.8	6.8	12.0	10.4	14.8	9.6	13.4	7.8	8.6	10.6	9.2
70			6.4	4.4	9.8	8.4	12.6	7.6	11.4	6.0	6.8	8.8	7.4
75				2.4	8.0	6.6	10.8	6.0	9.6	4.4	5.2	7.2	5.8
80					6.2	5.0	9.2	4.4	8.0	3.0	3.8	5.8	4.4
85					4.6	3.6	7.6	3.0	6.6		2.4	4.4	3.2
90					3.2	2.4	6.4		5.6			3.4	2.2
95					2.2		5.4		4.4			2.4	
100							4.4		3.4				
110							2.4						

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

11,2 m (36.7 ft)

7,8 m (25.6 ft)

360°

80 t (176,000 lb)

Pounds x 1000

Feet	150.8				200.8				236.2				257.5			
	5.9 + 30.8				5.9 + 30.8				5.9 + 30.8				5.9 + 30.8			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
30.0	37.4															
35.0	37.4															
40.0	36.4	31.4														
45.0	35.4	30.4			24.0											
50.0	34.2	29.6	24.8		24.0											
55.0	33.4	28.8	24.2	19.0	24.0				14.8				11.0			
60.0	32.4	28.0	23.2	18.6	24.0	24.0	21.4		14.8				11.0			
65.0	31.4	27.2	22.4	18.2	24.0	23.8	21.0		14.8				11.0			
70.0	30.4	26.4	21.6	18.0	24.0	23.4	20.8	18.4	14.8	14.8			11.0			
75.0	29.2	25.6	21.2	17.6	24.0	22.8	20.6	18.0	14.8	14.8	14.8		11.0	11.0		
80.0	28.0	24.6	20.6	17.4	24.0	22.6	20.2	17.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
85.0	26.8	23.6	20.0	17.2	24.0	22.2	20.0	17.6	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
90.0	25.4	22.4	19.6	17.0	24.0	21.8	19.8	17.4	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
95.0	24.2	21.6	19.2	16.8	23.4	21.6	19.4	17.2	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
100.0	23.2	20.8	18.8	16.8	23.0	21.2	19.2	17.2	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
105.0	22.0	20.0	18.4	16.6	22.2	21.0	19.0	17.0	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
110.0	21.2	19.4	18.0	16.6	21.2	20.4	18.8	16.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
115.0	20.4	18.8	17.8	16.4	20.4	19.8	18.6	16.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
120.0	19.6	18.2	17.4	16.4	19.4	19.2	18.4	16.6	14.8	14.8	14.6	14.6	11.0	11.0	11.0	11.0
125.0	19.0	17.8	17.0	16.4	18.4	18.4	18.2	16.6	14.8	14.4	14.2	14.2	11.0	11.0	11.0	11.0
130.0	18.4	17.2	16.8	16.4	17.6	17.6	17.4	16.4	14.2	14.0	13.8	13.8	11.0	11.0	11.0	11.0
135.0	17.8	16.8	16.4		16.6	16.6	16.6	16.2	13.8	13.6	13.4	13.4	11.0	11.0	11.0	11.0
140.0	17.2	16.4	16.0		15.8	15.8	15.8	15.8	13.4	13.2	13.0	13.0	10.6	10.6	10.6	10.6
145.0	16.6	16.0	15.8		14.8	14.8	14.8	14.8	12.8	12.6	12.6	12.6	10.2	10.2	10.2	10.2
150.0	16.2	15.6	15.6		14.0	14.0	14.0	14.0	12.4	12.2	12.2	12.2	9.8	9.8	9.8	9.8
155.0	15.8	15.2	15.2		13.2	13.2	13.2	13.2	11.8	11.8	11.8	11.8	9.4	9.4	9.4	9.4
160.0	15.4	15.0	15.0		12.4	12.4	12.4	12.4	11.4	11.4	11.4	11.4	9.2	9.2	9.2	9.2
165.0	15.0	14.8	14.8		11.8	11.8	11.8	11.8	11.0	11.0	11.0	11.0	8.8	8.8	8.8	8.8
170.0	14.4				11.2	11.2	11.2	11.2	10.6	10.6	10.6	10.6	8.4	8.4	8.4	8.4
175.0	7.4				10.4	10.4	10.4		10.2	10.2	10.2	10.2	8.0	8.0	8.0	8.0
180.0					9.8	9.8	9.8		9.8	9.8	9.8	9.8	7.6	7.6	7.6	7.6
185.0					9.4	9.4	9.4		9.4	9.4	9.4	9.4	7.0	7.0	7.0	7.0
190.0					8.8	8.8	8.8		9.0	9.0	9.0	9.0	6.6	6.6	6.6	6.6
195.0					8.2	8.2	8.2		8.4	8.4	8.4	8.4	6.2	6.2	6.2	6.2
200.0					7.8	7.8	7.8		8.0	8.0	8.0		5.8	5.8	5.8	5.8
205.0					7.2	7.2	7.2		7.6	7.6	7.6		5.4	5.4	5.4	5.4
210.0					6.6	6.6			7.0	7.0	7.0		5.0	5.0	5.0	
215.0					6.0	6.0			6.6	6.6	6.6		4.6	4.6	4.6	
220.0					3.8				6.2	6.2	6.2		4.2	4.2	4.2	
225.0									5.8	5.8	5.8		4.0	4.0	4.0	
230.0									5.4	5.4	5.4		3.6	3.6	3.6	
235.0									4.8	4.8	5.0		3.2	3.2	3.2	
240.0									4.2	4.2	4.4		3.0	3.0	3.0	
245.0									3.8	3.8			2.6	2.6	2.6	
250.0									3.4	3.4			2.4	2.4	2.4	
255.0													2.0	2.0	2.0	

** Luffing under load*

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

17.8 m (58.4 ft)

7,8 m (25.6 ft)

360°

80 t (176,000 lb)

Pounds x 1000

Feet	150.8				200.8				236.2				257.5			
	5.9 + 52.5				5.9 + 52.5				5.9 + 52.5				5.9 + 52.5			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
35.0	17.0															
40.0	17.0															
45.0	17.0															
50.0	16.8	14.2			13.8											
55.0	16.4	14.0			13.8											
60.0	16.0	13.6			13.8				9.8							
65.0	15.6	13.4			13.8				9.8							
70.0	15.2	13.2	11.6		13.8	12.4			9.8				8.0			
75.0	15.0	12.8	11.4	9.6	13.8	12.2			9.8	9.8			8.0			
80.0	14.6	12.6	11.2	9.4	13.6	12.2	10.8		9.8	9.8			8.0			
85.0	14.2	12.4	11.0	9.2	13.4	12.0	10.8		9.8	9.8			8.0			
90.0	14.0	12.2	10.8	9.0	13.2	11.8	10.6	9.2	9.8	9.8			8.0	8.0		
95.0	13.6	12.0	10.4	9.0	13.0	11.6	10.6	9.2	9.8	9.8	9.8		8.0	8.0		
100.0	13.4	11.8	10.2	8.8	12.8	11.4	10.4	9.0	9.8	9.8	9.6	9.0	8.0	8.0	8.0	
105.0	13.0	11.6	10.0	8.8	12.6	11.4	10.4	9.0	9.8	9.8	9.6	9.0	8.0	8.0	8.0	
110.0	12.8	11.4	9.8	8.6	12.4	11.2	10.2	8.8	9.8	9.8	9.6	8.8	8.0	8.0	8.0	
115.0	12.6	11.2	9.6	8.6	12.4	11.0	10.2	8.8	9.8	9.8	9.6	8.8	8.0	8.0	8.0	8.0
120.0	12.2	11.0	9.4	8.6	12.2	11.0	10.0	8.8	9.8	9.8	9.4	8.8	8.0	8.0	8.0	8.0
125.0	12.0	10.6	9.4	8.4	12.0	10.8	9.8	8.6	9.8	9.8	9.4	8.6	8.0	8.0	8.0	8.0
130.0	11.8	10.4	9.2	8.4	11.8	10.6	9.6	8.6	9.8	9.8	9.4	8.6	8.0	8.0	8.0	8.0
135.0	11.6	10.2	9.0	8.4	11.6	10.6	9.6	8.6	9.8	9.8	9.2	8.6	8.0	8.0	8.0	8.0
140.0	11.2	10.0	8.8	8.4	11.6	10.4	9.4	8.6	9.8	9.8	9.2	8.6	8.0	8.0	8.0	8.0
145.0	11.0	9.8	8.8	8.4	11.4	10.4	9.2	8.4	9.8	9.6	9.2	8.6	8.0	8.0	8.0	8.0
150.0	10.6	9.6	8.6	8.4	11.2	10.2	9.2	8.4	9.8	9.6	9.0	8.4	8.0	8.0	8.0	8.0
155.0	10.2	9.4	8.6	8.4	11.0	10.2	9.0	8.4	9.8	9.6	9.0	8.4	8.0	8.0	8.0	8.0
160.0	10.0	9.2	8.4		11.0	10.0	9.0	8.4	9.8	9.4	9.0	8.4	8.0	8.0	8.0	8.0
165.0	9.8	9.0	8.4		10.8	9.8	8.8	8.4	9.8	9.4	8.8	8.4	8.0	8.0	8.0	8.0
170.0	9.4	8.8	8.4		10.6	9.6	8.8	8.4	9.6	9.2	8.8	8.4	7.8	7.8	7.8	7.8
175.0	9.2	8.8	8.4		10.4	9.6	8.6	8.4	9.4	9.0	8.8	8.4	7.6	7.6	7.6	7.6
180.0	9.0	8.6	8.4		10.2	9.4	8.6	8.4	9.0	8.8	8.6	8.4	7.2	7.2	7.2	7.2
185.0	8.8	8.6			9.8	9.2	8.6	8.4	8.8	8.6	8.6	8.4	7.0	7.0	7.0	7.0
190.0	8.6				9.2	9.0	8.4	8.4	8.6	8.4	8.4	8.2	6.8	6.8	6.8	6.8
195.0	8.4				8.8	8.8	8.4		8.2	8.2	8.2	8.2	6.4	6.4	6.4	6.4
200.0	5.0				8.2	8.2	8.2		8.0	7.8	7.8	7.8	6.0	6.0	6.0	6.0
205.0					7.8	7.8	7.8		7.6	7.6	7.6	7.6	5.8	5.8	5.8	5.8
210.0					7.4	7.4	7.4		7.2	7.2	7.2	7.2	5.4	5.4	5.4	5.4
215.0					6.8	6.8	6.8		7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0
220.0					6.4	6.4	6.4		6.6	6.6	6.6		4.6	4.6	4.6	4.6
225.0					6.0	6.0	6.0		6.2	6.2	6.2		4.4	4.4	4.4	4.4
230.0					5.6	5.6			5.8	5.8	5.8		4.0	4.0	4.0	4.0
235.0					5.0	5.0			5.4	5.4	5.4		3.6	3.6	3.6	3.6
240.0					4.6				5.2	5.2	5.2		3.4	3.4	3.4	
245.0									4.8	4.8	4.8		3.0	3.0	3.0	
250.0									4.4	4.4	4.4		2.8	2.8	2.8	
255.0									4.0	4.0	4.2		2.4	2.4	2.4	
260.0									3.6	3.6	3.8		2.2	2.2	2.2	
265.0									3.2	3.2						
270.0									2.6	2.6						
275.0									2.2							

** Luffing under load*

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

11,2 m (36.7 ft)

7,8 m (25.6 ft)

360°

50 t (110,200 lb)

Pounds x 1000

Feet	150.8				200.8 - 201.4				229.5 - 236.2				257.5			
	5.9 + 30.8				5.9 + 30.8				5.9 + 30.8				5.9 + 30.8			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
30.0	37.4															
35.0	37.4															
40.0	36.4	31.4														
45.0	35.4	30.4			24.0											
50.0	34.2	29.6	24.8		24.0				14.8							
55.0	33.4	28.8	24.2	19.0	24.0				14.8				11.0			
60.0	32.4	28.0	23.2	18.6	24.0	24.0	21.4		14.8				11.0			
65.0	31.4	27.2	22.4	18.2	24.0	23.8	21.0		14.8				11.0			
70.0	30.4	26.4	21.6	18.0	24.0	23.4	20.8	18.4	14.8	14.8			11.0			
75.0	29.2	25.6	21.2	17.6	24.0	22.8	20.6	18.0	14.8	14.8	14.8		11.0	11.0		
80.0	28.0	24.6	20.6	17.4	24.0	22.6	20.2	17.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
85.0	26.8	23.6	20.0	17.2	24.0	22.2	20.0	17.6	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
90.0	25.4	22.4	19.6	17.0	24.0	21.8	19.8	17.4	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
95.0	24.2	21.6	19.2	16.8	23.0	21.6	19.4	17.2	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
100.0	23.2	20.8	18.8	16.8	21.0	21.0	19.2	17.2	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
105.0	22.0	20.0	18.4	16.6	19.0	19.0	19.0	17.0	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
110.0	21.2	19.4	18.0	16.6	17.4	17.4	18.4	16.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
115.0	19.6	18.8	17.8	16.4	15.6	15.6	16.6	16.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
120.0	18.0	18.0	17.4	16.4	14.2	14.2	15.2	16.0	13.6	14.8	14.6	14.6	11.0	11.0	11.0	11.0
125.0	16.4	16.4	17.0	16.4	13.0	12.8	13.8	14.4	13.8	13.6	14.2	14.2	11.0	11.0	11.0	11.0
130.0	14.8	14.8	15.6	16.0	12.4	12.4	12.4	13.0	13.4	13.0	13.2	13.8	11.0	11.0	11.0	11.0
135.0	13.6	13.6	14.0		12.0	11.8	11.6	11.8	12.6	12.6	12.2	12.6	10.6	10.6	11.0	11.0
140.0	12.2	12.2	12.8		11.4	11.4	11.2	11.2	11.6	11.6	11.8	11.8	9.6	9.6	10.4	10.6
145.0	11.0	11.0	11.6		11.0	11.0	10.8	10.8	10.6	10.6	11.2	11.6	8.6	8.6	9.2	9.8
150.0	10.0	10.0	10.4		10.6	10.4	10.4	10.4	9.6	9.6	10.2	10.8	7.6	7.6	8.4	9.0
155.0	9.0	9.0	9.4		10.0	10.0	10.0	10.0	8.8	8.8	9.4	9.8	6.8	6.8	7.4	8.0
160.0	8.0	8.0	8.4		9.6	9.6	9.6	9.6	8.0	8.0	8.6	9.0	6.0	6.0	6.6	7.2
165.0	7.2	7.2	7.4		9.2	9.2	9.2	9.2	7.2	7.2	7.8	8.2	5.2	5.2	5.8	6.4
170.0	6.4				8.8	8.8	8.8	8.8	6.6	6.6	7.0	7.4	4.6	4.6	5.2	5.6
175.0	5.8				8.0	8.0	8.4		5.8	5.8	6.2	6.6	4.0	4.0	4.4	4.8
180.0					7.4	7.4	7.6		5.0	5.0	5.6	5.8	3.4	3.4	3.8	4.2
185.0					6.6	6.6	7.0		4.4	4.4	4.8	5.2	2.8	2.8	3.2	3.6
190.0					6.0	6.0	6.2		3.8	3.8	4.2	4.4	2.2	2.2	2.6	3.0
195.0					5.4	5.4	5.6		3.2	3.2	3.6				2.0	2.4
200.0					4.8	4.8	5.0		2.6	2.6	2.8					
205.0					4.2	4.2	4.4		2.0	2.0	2.4					
210.0					3.8	3.8										
215.0					3.2	3.2										

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

17.8 m (58.4 ft)

7,8 m (25.6 ft)

360°

50 t (110,200 lb)

Pounds x 1000

Feet	150.8				200.8 - 201.4				229.5				257.5			
	5.9 + 52.5				5.9 + 52.5				5.9 + 52.5				5.9 + 52.5			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
35.0	17.0															
40.0	17.0															
45.0	17.0															
50.0	16.8	14.2			13.8											
55.0	16.4	14.0			13.8				10.0							
60.0	16.0	13.6			13.8				10.0							
65.0	15.6	13.4			13.8				10.0							
70.0	15.2	13.2	11.6		13.8	12.4			10.0				8.0			
75.0	15.0	12.8	11.4	9.6	13.8	12.2			10.0	10.0			8.0			
80.0	14.6	12.6	11.2	9.4	13.6	12.2	10.8		10.0	10.0			8.0			
85.0	14.2	12.4	11.0	9.2	13.4	12.0	10.8		10.0	10.0			8.0			
90.0	14.0	12.2	10.8	9.0	13.2	11.8	10.6	9.2	10.0	10.0	9.8		8.0	8.0		
95.0	13.6	12.0	10.4	9.0	13.0	11.6	10.6	9.2	10.0	10.0	9.8		8.0	8.0		
100.0	13.4	11.8	10.2	8.8	12.8	11.4	10.4	9.0	10.0	10.0	9.6	9.0	8.0	8.0	8.0	
105.0	13.0	11.6	10.0	8.8	12.6	11.4	10.4	9.0	10.0	10.0	9.6	9.0	8.0	8.0	8.0	
110.0	12.8	11.4	9.8	8.6	12.4	11.2	10.2	8.8	10.0	10.0	9.6	8.8	8.0	8.0	8.0	
115.0	12.6	11.2	9.6	8.6	12.4	11.0	10.2	8.8	10.0	10.0	9.4	8.8	8.0	8.0	8.0	8.0
120.0	12.2	11.0	9.4	8.6	12.2	11.0	10.0	8.8	10.0	10.0	9.4	8.8	8.0	8.0	8.0	8.0
125.0	12.0	10.6	9.4	8.4	12.0	10.8	9.8	8.6	10.0	9.8	9.4	8.6	8.0	8.0	8.0	8.0
130.0	11.8	10.4	9.2	8.4	11.8	10.6	9.6	8.6	10.0	9.8	9.2	8.6	8.0	8.0	8.0	8.0
135.0	11.6	10.2	9.0	8.4	11.6	10.6	9.6	8.6	10.0	9.6	9.0	8.6	8.0	8.0	8.0	8.0
140.0	11.2	10.0	8.8	8.4	10.8	10.4	9.4	8.6	10.0	9.4	8.8	8.4	8.0	8.0	8.0	8.0
145.0	11.0	9.8	8.8	8.4	9.8	9.8	9.2	8.4	10.0	9.2	8.6	8.4	8.0	8.0	8.0	8.0
150.0	10.6	9.6	8.6	8.4	9.2	8.8	9.2	8.4	9.8	9.0	8.4	8.4	8.0	8.0	8.0	8.0
155.0	10.2	9.4	8.6	8.4	9.0	8.4	9.0	8.4	9.6	8.8	8.4	8.2	7.8	7.8	8.0	8.0
160.0	10.0	9.2	8.4		8.8	8.2	8.2	8.4	9.0	8.6	8.2	8.0	7.0	7.0	8.0	8.0
165.0	9.0	9.0	8.4		8.4	8.0	7.8	8.2	8.2	8.2	8.0	8.0	6.4	6.4	7.4	8.0
170.0	8.2	8.2	8.4		8.2	7.8	7.6	7.6	7.6	7.6	7.8	7.8	5.6	5.6	6.6	7.6
175.0	7.4	7.4	8.0		8.0	7.6	7.4	7.4	6.8	6.8	7.8	7.8	5.0	5.0	6.0	6.8
180.0	6.8	6.8	7.2		7.6	7.4	7.2	7.2	6.2	6.2	7.0	7.6	4.4	4.4	5.4	6.0
185.0	6.0	6.0			7.4	7.2	7.2	7.2	5.6	5.6	6.4	7.0	3.8	3.8	4.6	5.4
190.0	5.4				7.0	7.0	7.0	7.0	5.0	5.0	5.8	6.4	3.2	3.2	4.0	4.8
195.0	4.8				6.6	6.6	6.8		4.4	4.4	5.2	5.8	2.6	2.6	3.4	4.2
200.0	4.2				6.0	6.0	6.4		3.8	3.8	4.6	5.0	2.2	2.2	3.0	3.6
205.0					5.4	5.4	6.0		3.2	3.2	4.0	4.4			2.4	3.0
210.0					4.8	4.8	5.4		2.8	2.8	3.4					2.4
215.0					4.4	4.4	4.8		2.2	2.2	2.8					
220.0					3.8	3.8	4.2				2.4					
225.0					3.4	3.4	3.8									
230.0					3.0	3.0										
235.0					2.6	2.6										
240.0					2.2											

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

11,2 m (36.7ft)

7,8 m (25.6 ft)

360°

35.5 t (78,200 lb)

Pounds x 1000

Feet	150.8 - 151.8				200.8 - 201.4				229.5 - 236.2				257.5			
	5.9 + 30.8				5.9 + 30.8				5.9 + 30.8				5.9 + 30.8			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
30.0	37.4															
35.0	37.4															
40.0	36.4	31.4														
45.0	35.4	30.4			24.0											
50.0	34.2	29.6	24.8		24.0											
55.0	33.4	28.8	24.2	19.0	24.0				14.8				11.0			
60.0	32.4	28.0	23.2	18.6	24.0	24.0	21.4		14.8				11.0			
65.0	31.4	27.2	22.4	18.2	24.0	23.8	21.0		14.8				11.0			
70.0	30.4	26.4	21.6	18.0	24.0	23.4	20.8	18.4	14.8	14.8			11.0			
75.0	29.0	25.6	21.2	17.6	24.0	22.8	20.6	18.0	14.8	14.8	14.8		11.0	11.0		
80.0	26.0	24.6	20.6	17.4	21.4	21.4	20.2	17.8	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
85.0	23.4	23.4	20.0	17.2	19.0	19.0	20.0	17.6	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
90.0	21.2	21.2	19.6	17.0	17.0	16.8	18.2	17.4	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
95.0	19.0	19.0	19.2	16.8	16.6	15.8	16.2	17.2	14.8	14.8	14.8	14.8	11.0	11.0	11.0	11.0
100.0	17.2	17.2	18.2	16.8	16.0	15.2	14.4	15.4	14.4	14.4	14.8	14.8	11.0	11.0	11.0	11.0
105.0	15.4	15.4	16.4	16.6	15.4	14.6	14.0	13.6	13.8	13.8	14.4	14.2	11.0	11.0	11.0	11.0
110.0	14.0	14.0	14.8	15.4	14.8	14.2	13.6	13.2	12.4	12.4	13.4	13.6	10.2	10.2	11.0	11.0
115.0	12.6	12.6	13.4	14.0	14.0	13.6	13.2	13.0	11.0	11.0	12.0	12.8	9.0	9.0	10.0	10.8
120.0	11.2	11.6	12.0	12.6	12.8	12.8	12.8	12.6	9.8	9.8	10.8	11.4	7.8	7.8	8.8	9.6
125.0	11.0	11.0	11.0	11.2	11.6	11.6	12.4	12.4	8.8	8.8	9.6	10.2	6.8	6.8	7.6	8.4
130.0	10.4	10.4	10.4	10.4	10.6	10.6	11.2	11.8	7.8	7.8	8.6	9.2	5.8	5.8	6.6	7.2
135.0	9.8	9.8	9.8		9.6	9.6	10.2	10.6	6.8	6.8	7.6	8.2	4.8	4.8	5.6	6.2
140.0	9.4	9.4	9.4		8.8	8.8	9.2	9.8	6.0	6.0	6.6	7.2	4.0	4.0	4.8	5.4
145.0	8.8	8.8	8.8		7.8	7.8	8.4	8.8	5.2	5.2	5.8	6.4	3.2	3.2	4.0	4.6
150.0	8.4	8.4	8.4		7.0	7.0	7.6	8.0	4.4	4.4	5.0	5.4	2.4	2.4	3.2	3.8
155.0	8.0	8.0	8.0		6.4	6.4	6.8	7.2	3.8	3.8	4.2	4.6			2.4	3.0
160.0	7.6	7.6	7.6		5.6	5.6	6.0	6.4	3.0	3.0	3.6	4.0				2.2
165.0	7.2	7.2	7.2			4.8	5.4	5.6	2.4	2.4	3.0	3.2				
170.0	6.8	6.8				4.2	4.6	4.8			2.2	2.6				
175.0	6.2	6.2				3.6	4.0					2.0				
180.0						3.0	3.4									
185.0						2.4	2.8									
190.0							2.2									

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

17.8 m (58.4 ft)

7,8 m (25.6 ft)

360°

35.5 t (78,200 lb)

Pounds x 1000

Feet	150.8 - 151.8 5.9 + 52.5				200.8 - 201.4 5.9 + 52.5				229.5 5.9 + 52.5				257.5 5.9 + 52.5			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
35.0	17.0															
40.0	17.0															
45.0	17.0															
50.0	16.8	14.2			13.8											
55.0	16.4	14.0			13.8				10.0							
60.0	16.0	13.6			13.8				10.0							
65.0	15.6	13.4			13.8				10.0							
70.0	15.2	13.2	11.6		13.8	12.4			10.0				8.0			
75.0	15.0	12.8	11.4	9.6	13.8	12.2			10.0	10.0			8.0			
80.0	14.6	12.6	11.2	9.4	13.6	12.2	10.8		10.0	10.0			8.0			
85.0	14.2	12.4	11.0	9.2	13.4	12.0	10.8		10.0	10.0			8.0			
90.0	14.0	12.2	10.8	9.0	13.2	11.8	10.6	9.2	10.0	10.0	9.8		8.0	8.0		
95.0	13.6	12.0	10.4	9.0	13.0	11.6	10.6	9.2	10.0	10.0	9.8		8.0	8.0		
100.0	13.4	11.8	10.2	8.8	12.8	11.4	10.4	9.0	10.0	10.0	9.6	9.0	8.0	8.0	8.0	
105.0	13.0	11.6	10.0	8.8	12.6	11.4	10.4	9.0	10.0	10.0	9.6	9.0	8.0	8.0	8.0	
110.0	12.8	11.4	9.8	8.6	11.6	11.2	10.2	8.8	10.0	10.0	9.6	8.8	8.0	8.0	8.0	
115.0	12.6	11.2	9.6	8.6	11.0	10.2	10.2	8.8	10.0	10.0	9.4	8.8	8.0	8.0	8.0	8.0
120.0	12.2	11.0	9.4	8.6	11.0	10.0	10.0	8.8	10.0	10.0	9.4	8.8	8.0	8.0	8.0	8.0
125.0	11.6	10.6	9.4	8.4	10.8	9.8	9.6	8.6	9.8	9.8	9.4	8.6	7.8	7.8	8.0	8.0
130.0	10.6	10.4	9.2	8.4	10.4	9.6	9.0	8.6	8.8	8.8	9.2	8.6	6.8	6.8	8.0	8.0
135.0	9.6	9.6	9.0	8.4	10.2	9.2	8.8	8.6	8.0	8.0	9.0	8.6	6.0	6.0	7.4	8.0
140.0	9.2	9.2	8.8	8.4	9.6	9.0	8.6	8.4	7.0	7.0	8.4	8.4	5.2	5.2	6.4	7.6
145.0	8.6	8.6	8.6	8.4	8.8	8.8	8.4	8.2	6.2	6.2	7.4	8.4	4.4	4.4	5.6	6.8
150.0	8.2	8.2	8.2	8.4	8.0	8.0	8.2	8.2	5.4	5.4	6.6	7.6	3.6	3.6	4.8	6.0
155.0	7.8	7.8	7.8	7.8	7.4	7.4	8.0	8.0	4.8	4.8	5.8	6.8	3.0	3.0	4.2	5.2
160.0	7.4	7.4	7.4		6.6	6.6	7.6	7.8	4.2	4.2	5.2	6.0	2.2	2.2	3.4	4.4
165.0	7.0	7.0	7.0		6.0	6.0	6.8	7.4	3.4	3.4	4.4	5.2			2.8	3.6
170.0	6.6	6.6	6.6		5.4	5.4	6.2	6.8	2.8	2.8	3.8	4.6			2.2	3.0
175.0	6.4	6.4	6.4		4.8	4.8	5.6	6.0	2.4	2.4	3.2	4.0				2.4
180.0	6.0	6.0	6.0		4.2	4.2	5.0	5.4			2.6	3.2				
185.0	5.8	5.8			3.6	3.6	4.4	4.8			2.2	2.8				
190.0	5.4	5.4			3.0	3.0	3.8	4.2				2.2				
195.0	5.0				2.6	2.6	3.2									
200.0	4.6				2.0	2.0	2.6									
205.0							2.2									

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m (150.8 ft -257.5 ft)

11,2 m (36.7 ft)

7,8 m (25.6 ft)

360°

21 t (46,200 lb)

Pounds x 1000

Feet	150.8 - 151.8				200.8 - 201.4				229.5				257.5			
	5.9 + 30.8				5.9 + 30.8				5.9 + 30.8				5.9 + 30.8			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
30.0	37.4															
35.0	37.4															
40.0	36.4	31.4														
45.0	35.4	30.4			24.0											
50.0	34.2	29.6	24.8		24.0											
55.0	31.8	28.8	24.2	19.0	24.0				14.4				11.0			
60.0	27.6	27.6	23.2	18.6	22.0	22.0	21.4		14.4	14.4			11.0			
65.0	24.0	24.0	22.4	18.2	18.8	18.8	20.8		14.4	14.4			11.0			
70.0	21.0	21.0	21.6	18.0	17.0	17.0	18.0	18.4	14.4	14.4			11.0			
75.0	19.8	19.2	19.8	17.6	17.0	17.0	16.8	17.0	14.4	14.4	14.4	14.4	11.0	11.0		
80.0	18.6	18.2	17.6	17.4	17.0	17.0	16.2	15.4	13.8	13.8	14.4	14.4	11.0	11.0	11.0	11.0
85.0	17.6	17.2	16.8	16.4	15.2	15.2	15.8	15.0	12.0	12.0	13.4	14.4	9.6	9.6	11.0	11.0
90.0	16.6	16.2	16.0	15.8	13.6	13.6	14.6	14.6	10.4	10.4	11.6	12.6	8.2	8.2	9.4	10.6
95.0	15.6	15.4	15.2	15.2	12.0	12.0	13.0	13.8	9.0	9.0	10.0	11.0	6.8	6.8	8.0	9.0
100.0	14.4	14.4	14.4	14.4	10.6	10.6	11.6	12.4	7.6	7.6	8.8	9.6	5.4	5.4	6.6	7.6
105.0	13.0	13.0	13.6	13.8	9.4	9.4	10.2	11.0	6.4	6.4	7.4	8.2	4.4	4.4	5.4	6.4
110.0	11.8	11.8	12.4	12.8	8.2	8.2	9.0	9.8	5.4	5.4	6.2	7.0	3.2	3.2	4.4	5.2
115.0	10.6	10.6	11.2	11.6	7.2	7.2	8.0	8.6	4.4	4.4	5.2	6.0	2.4	2.4	3.2	4.2
120.0	9.6	9.6	10.2	10.6	6.2	6.2	7.0	7.4	3.4	3.4	4.2	5.0			2.4	3.2
125.0	8.6	8.6	9.2	9.4	5.2	5.2	6.0	6.6	2.6	2.6	3.4	4.0				2.2
130.0	7.6	7.6	8.2	8.6	4.4	4.4	5.2	5.6			2.6	3.2				
135.0	6.8	6.8	7.2		3.8	3.8	4.4	4.8				2.4				
140.0	6.0	6.0	6.4		3.0	3.0	3.6	4.0								
145.0	5.2	5.2	5.6		2.4	2.4	2.8	3.2								
150.0	4.4	4.4	4.8				2.2	2.6								
155.0	3.8	3.8	4.0													
160.0	3.2	3.2	3.4													
165.0	2.6	2.6	2.8													
170.0	2.0	2.0														

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Load charts

Main boom and bi-fold swingaway

46m - 78.5 m
(150.8 ft -257.5 ft)

17.8 m
(58.4 ft)

7,8 m
(25.6 ft)

360°

21 t (46,200 lb)

Pounds x 1000

Feet	150.8 - 151.8				200.8 - 201.4				229.5				248.2			
	5.9 + 52.5				5.9 + 52.5				5.9 + 52.5				5.9 + 52.5			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
35.0	17.0															
40.0	17.0															
45.0	17.0															
50.0	16.8	14.2			13.8											
55.0	16.4	14.0			13.8				10.0							
60.0	16.0	13.6			13.8				10.0				8.6			
65.0	15.6	13.4			13.8				10.0				8.6			
70.0	15.2	13.2	11.6		13.8	12.4			10.0				8.6			
75.0	15.0	12.8	11.4	9.6	13.8	12.2			10.0	10.0			8.6			
80.0	14.6	12.6	11.2	9.4	13.0	12.2	10.8		10.0	10.0			8.6	8.6		
85.0	14.2	12.4	11.0	9.2	11.2	11.2	10.8		10.0	10.0			8.6	8.6		
90.0	13.6	12.2	10.8	9.0	11.0	10.8	10.6	9.2	10.0	10.0	9.8		8.6	8.6		
95.0	12.4	12.0	10.4	9.0	11.0	10.8	10.4	9.2	10.0	10.0	9.8		8.6	8.6	8.6	
100.0	12.2	11.0	10.2	8.8	11.0	10.6	10.0	9.0	8.8	8.8	9.6	9.0	7.2	7.2	8.6	
105.0	12.0	10.8	10.0	8.8	10.4	10.4	9.8	9.0	7.6	7.6	9.4	9.0	6.2	6.2	8.0	8.6
110.0	11.8	10.8	9.8	8.6	9.2	9.2	9.8	8.8	6.4	6.4	8.2	8.8	5.0	5.0	6.8	8.4
115.0	11.4	10.6	9.4	8.6	8.2	8.2	9.6	8.6	5.4	5.4	7.0	8.6	4.0	4.0	5.8	7.4
120.0	10.6	10.4	9.2	8.6	7.2	7.2	8.6	8.6	4.6	4.6	6.0	7.4	3.2	3.2	4.8	6.2
125.0	9.6	9.6	9.2	8.4	6.4	6.4	7.6	8.6	3.8	3.8	5.2	6.4	2.4	2.4	4.0	5.2
130.0	8.8	8.8	9.0	8.4	5.6	5.6	6.8	7.8	3.0	3.0	4.4	5.4			3.0	4.4
135.0	8.0	8.0	8.8	8.4	4.8	4.8	6.0	6.8	2.2	2.2	3.6	4.6			2.4	3.6
140.0	7.2	7.2	8.0	8.4	4.0	4.0	5.2	6.0			2.8	3.8				2.8
145.0	6.6	6.6	7.4	7.8	3.4	3.4	4.4	5.2			2.0	3.0				
150.0	5.8	5.8	6.6	7.2	2.8	2.8	3.8	4.6				2.4				
155.0	5.2	5.2	5.8	6.4	2.2	2.2	3.2	3.8								
160.0	4.4	4.4	5.2				2.6	3.2								
165.0	4.0	4.0	4.4					2.6								
170.0	3.4	3.4	3.8					2.0								
175.0	2.8	2.8	3.2													
180.0	2.4	2.4	2.8													

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Load charts

Main boom, boom insert and bi-fold swingaway with insert

46m - 78.5 m
(150.8 ft -257.5 ft)

33,8 m
(110.9 ft)

7,8 m
(25.6 ft)

360°

80 t (176,000 lb)

Pounds x 1000

Feet	150.8				200.8				236.2			
	26.2 + 84.6				26.2 + 84.6				26.2 + 84.6			
	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°	0°	*0°-15°	*15°-30°	*30°-50°
50.0	8.2											
55.0	8.2											
60.0	8.2				6.4							
65.0	8.2				6.4							
70.0	8.2				6.4							
75.0	8.2	8.2			6.4				4.4			
80.0	8.2	8.2			6.4				4.4			
85.0	8.2	8.0			6.4				4.4			
90.0	8.2	7.8			6.4	6.4			4.4			
95.0	8.2	7.6	6.8		6.4	6.4			4.4			
100.0	8.2	7.4	6.6		6.4	6.4			4.4	4.4		
105.0	8.0	7.2	6.4		6.4	6.4	5.8		4.4	4.4		
110.0	7.8	7.0	6.4		6.4	6.4	5.8		4.4	4.4		
115.0	7.6	6.8	6.2	5.6	6.4	6.4	5.8		4.4	4.4		
120.0	7.2	6.6	6.0	5.6	6.4	6.4	5.8		4.4	4.4	4.2	
125.0	7.0	6.4	6.0	5.4	6.4	6.4	5.8	4.2	4.4	4.4	4.2	
130.0	6.8	6.2	5.8	5.4	6.4	6.2	5.8	4.2	4.4	4.4	4.2	
135.0	6.6	6.0	5.6	5.4	6.4	6.2	5.6	4.2	4.4	4.4	4.2	2.8
140.0	6.6	6.0	5.6	5.2	6.4	6.0	5.6	4.2	4.4	4.4	4.2	2.8
145.0	6.4	5.8	5.4	5.2	6.4	6.0	5.4	4.2	4.4	4.4	4.2	2.8
150.0	6.2	5.6	5.2	5.0	6.4	5.8	5.4	4.2	4.4	4.4	4.2	2.8
155.0	6.0	5.4	5.2	5.0	6.2	5.6	5.4	4.2	4.4	4.4	4.2	2.8
160.0	5.8	5.4	5.0	5.0	6.0	5.6	5.2	4.2	4.4	4.4	4.2	2.8
165.0	5.6	5.2	5.0	4.8	6.0	5.4	5.2	4.2	4.4	4.4	4.2	2.8
170.0	5.4	5.0	4.8	4.8	5.8	5.4	5.0	4.2	4.4	4.4	4.2	2.8
175.0	5.4	5.0	4.8	4.8	5.6	5.2	5.0	4.2	4.4	4.4	4.2	2.8
180.0	5.2	4.8	4.6	4.6	5.6	5.2	4.8	4.2	4.4	4.4	4.2	2.8
185.0	5.0	4.8	4.6	4.6	5.4	5.0	4.8	4.2	4.4	4.4	4.2	2.8
190.0	5.0	4.6	4.4	4.4	5.4	5.0	4.6	4.2	4.4	4.4	4.2	2.8
195.0	4.8	4.6	4.4	4.4	5.2	4.8	4.6	4.2	4.4	4.4	4.2	2.8
200.0	4.6	4.4	4.4	4.4	5.2	4.8	4.6	4.2	4.4	4.4	4.2	2.8
205.0	4.6	4.4	4.2		5.0	4.6	4.4	4.2	4.4	4.4	4.2	2.8
210.0	4.4	4.2	4.2		4.8	4.6	4.4	4.2	4.4	4.4	4.2	2.8
215.0	4.4	4.2	4.2		4.8	4.4	4.4	4.2	4.4	4.4	4.2	2.8
220.0	4.2	4.0	4.0		4.6	4.4	4.2	4.2	4.4	4.2	4.2	2.8
225.0	4.2	4.0	4.0		4.6	4.4	4.2	4.2	4.4	4.2	4.0	2.8
230.0	4.0	4.0	4.0		4.6	4.2	4.2	4.2	4.2	4.0	4.0	2.8
235.0	4.0	3.8	3.8		4.4	4.2	4.2	4.2	4.2	4.0	4.0	2.8
240.0	3.8	3.8			4.4	4.2	4.0		4.0	4.0	3.8	2.8
245.0	3.8				4.2	4.0	4.0		4.0	3.8	3.8	2.8
250.0					4.2	4.0	4.0		3.8	3.8	3.6	2.8
255.0					4.0	4.0	4.0		3.6	3.6	3.6	2.8
260.0					3.6	3.6	3.8		3.6	3.6	3.6	2.8
265.0					3.2	3.2	3.6		3.4	3.4	3.4	
270.0					2.8	2.8	3.4		3.2	3.2	3.2	
275.0					2.4	2.4	2.8		2.8	2.8	3.0	
280.0							2.4		2.4	2.4	2.8	
285.0										2.0	2.6	

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

Specifications

Superstructure

Boom
13,4 m to 78,5 m (44 ft to 257.5 ft) eight-section TWIN-LOCK boom. Maximum tip height 81,0 m (266 ft).

Boom elevation
1 cylinder with safety valve, boom angle from -1.5° to +82°.

Load moment and independent anti-two-block system
Load moment and independent anti-two-block system with audio visual warning and control lever lock-out. These systems provide graphic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition with lock-out hoist function.

Cab
Aluminium, full vision, tiltable (approx. 20°), safety glass, adjustable operator's seat with suspension, engine-independent heater. Armrest-integrated crane controls. Ergonomically arranged instrumentation and crane operating controls.

Slewing
3 slewing gears with axial piston motors, planetary gears, automatic brake.

Counterweight
80 t (176,300 lb), consisting of various sections (50 t [110,200 lb] within 3,00 m [9.84 ft] vehicle width). Hydraulic removal system.

Hydraulic system
2 separate circuits, 1 axial piston variable displacement pump with electronic power limiting control and axial piston variable displacement pump for slewing. Thermostatically controlled oil cooler. Tank capacity: 890 l (235 gallons).

Control system
Full electronic control of all crane movements using electrical control levers with automatic reset to zero. Integrated with the RCL and engine management system by CANbus. Crane Control System (CCS) with system with graphic display.

Hoist
Axial piston motor with planetary gear and brake. Drum rotation indicator. Hoist camera with light.

Optional equipment*
- Bi-fold swingaway, 11/18 m (37/58 ft) with hydraulic offset and luffing under load (5° – 50°), controlled from the crane cab
- 8 m (26 ft) boom and 8 m (26 ft) jib extensions (maximum total length 33,8 m [111 ft])
- Auxiliary hoist, self-rigging via counterweight
- Auxiliary boom nose using one part of line
- Auxiliary boom nose using two parts of line
- Air conditioning system
- 2,0 m (6.6 ft) side-stowed stub jib using 4 parts of line. Offset 8° and 30°

Carrier

Chassis
Special five-axle chassis, all-welded torsion-resistant box type construction in high-strength steel.

Outriggers
4 double hydraulically telescoping beams with vertical cylinders and outrigger pads. Independent horizontal and vertical movement control on each side of the carrier and from the operator's cab. Electronic level indicator with automatic leveling system.

Engine
Mercedes-Benz OM471LA, diesel, six cylinders, water-cooled, turbocharged, 390 kW (532 hp) at 1700 rpm (80/1269 EWG fan loose). Max. torque: 2460 Nm (1814 ft lb) at 1300 rpm. Fuel tank: 300 l + 350 l (79 + 92,5 gallons). Engine emission: Euromot 5/EPA/CARB Tier 4 final (non-road).

Transmission
Mercedes-Benz G 280, 16 gears forward and 2 reverse. 2 stage transfer case with longitudinal locks and water retarder.

Drive/Steer
10 x 6 x 10

Axle lines
5 axle lines; axle lines 2, 4 and 5 steered and driven; axle lines 1 and 3 steered.

Suspension
MEGATRAK®. All wheels with independent hydropneumatic suspension and hydraulic lockout. Longitudinal and transverse level control with automatic on-highway leveling system. Range +170 mm/-130 mm (6.69 in/-5.12 in). Active suspension control on outrigger control units.

Tires
10 tires, size 385/95 R25 (14.00 R25).

Steering
Dual-circuit, hydraulic power-assisted steering with emergency steering pump. Axle lines 1, 2, 3 and 5 steer on highway (steer by wire). Separate electronic hydraulic (steer by wire) steering of axle lines 4 and 5 for all-wheel steering and crabbing.

Brakes
Service brake: pneumatic dual circuit disc brakes acting on all wheels, air dryer. Permanent brake: exhaust brake and constant throttle brake. Parking brake: pneumatically operated spring-loaded brake acting on axle lines 2, 3, 4 and 5.

Driver's cab
Composite-designed aluminum and fibre-reinforced plastic, 2-person design, safety glass, driver seat with pneumatic suspension, engine-dependent hot water heater. Complete instrumentation and driving controls. Air conditioned. 12 V plug. Two rotating beacons. Fire extinguisher. Additional engine-independent diesel cab heater, also serves as engine preheater incl. 24-hr timer.

Electrical system
Three-phase alternator 28 V/100A, 2 batteries 12 V/170 Ah. Lighting system and signals 24 V.

Optional equipment*
- 10 x 8 x 10
- 10 tires, size 445/95 R25 (16.00 R25)
- 10 tires, size 525/80 R25 (20.5 R25)
- Vehicle width 3,10 m (10.17 ft)
- Folding bunk bed in carrier cab
- MAXbase variable outrigger positioning
- Reverse camera system
- CraneSTAR telematics system
- VIAB turbo clutch

* Other optional equipment on request.

Symbols glossary

Axles

Counterweight

Auxiliary hoist

Slewing/working range

Block height

Crane functions

Hook block/capacity

Speed

Boom

Crane travel

Hydraulic system

Suspension

Boom elevation

Drive/steer

Lattice extension

Tires

Boom telescoping

Electrical system

Lattice extension (luffing)

Transmission/gear

Brakes

Engine

Luffing jib

Travel speed

Cab

Gradeability

Outriggers

Carrier frame

Main hoist

Radius

Manitowoc Cranes

Regional headquarters

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Manitowoc Crane Care™

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Form No. GMK5250XL-1
Part No. 20-006/1M/0321

www.manitowoc.com

AGENDA FOR PRE-BID ON 4-27-26 AT 10:00 AM
ITB# 033-26 – Paycor Stadium South Vertical Transportation Towers Project

LOCATION: Corner of Mehring Way and Central Avenue, Cincinnati, Ohio 45202

1. **Introduction - Kyle**
    a. Project
    b. Owner

2. **The Bid Process - Kyle**
    a. Key Dates
    Questions **5/1/2026 12:00 PM**
    Answers **5/5/2026 11:00 AM**
    Bid Opening Date **5/8/2026 11:00 AM**
    b. Addendums

3. **Bid Documents – Kyle**
    a. Location
    b. Scope Review
    c. Estimated Budget **$6,765,131**
    d. Trade Contracts
    e. OCIP Program
    f. **Sealed proposals will be received at the Hamilton County Purchasing Department, Room 507, 138 East Court Street, Cincinnati, Ohio 45202, until 11:00 AM on the date listed above and will be read at that time. Bid opening will be held in Conference Room**.

4. **Economic Inclusion and Workforce Development – Robert Bell, Hamilton County**
    a. SBE Goal - 20%
    b. MBE Goal – 16.5%
    c. WBE Goal – 4.2%
    d. Economic Inclusion
    e. Workforce Development
    f. Building Opportunities by Leveraging Diversity (BOLD)
    g. **Tailored mailings to MBE/WBE/SBE firms notify them of contracting opportunities at least two (2) weeks before bids or proposals are due providing documentation of contact.** All MBE/WBE/SBE documents must be submitted with proposals, see Hamilton County Minority, Women, and Small Business Enterprise Programs.

5. **Questions and Answers – Kyle**

Hamilton County OHIO

Pre-Bid Conference Sign-in Sheet

ITB #- 033-26
ITB Name- **Paycor Stadium South Vertical Transportation Towers**
Date: 04-27-2026

VENDOR NAME	CONTACT NAME	PHONE	EMAIL
Schlhorst Equipment Services	Anna Rosian	(513)259-3401	arosian@schlhorst.com
Schlhost	Ryan Mauermann	513-214-5537	rmauermann@schlhorst.com
Precision ProCut	Matt Marcum	216-276-4150	Matt@PrecisionProcut.com
BAKER CONCRETE CONST	DARRIN FARR	513 673-2015	FARR@BAKERCONCRETE.COM
O'ROURKE ARCHITECTURE	SCOTT HOLLMANN	517 871-1400	BTM@OROURKEARCHITECTS.COM
Messer Const	Kyle Buchhalter	937-903-3142	KBuchhalter@Messer.com
Monarch	Nick Harter	513-351-6900	NHARTER@MONARCHCONSTRUCTION.CC
Independence Exc.	Jeremy Thorud	630-740-5535	JThorud@indexc.com
KZF	COREY MDI	513-218-8150	corey.mai@kzf.com
PRUS CONSTRUCTION Co.	HENRY FRONDORF	513-742-1507	hfrondorf@prus.us
THP	JASON JONES	513-241-3222	jjones@thpltd.com
Messer	Matt Poland	513-678-0312	mpoland@messer.com
CHC	Keith Overfield	513-616-0282	Keith.Overfield@chcmfg.com
CHC	Joe McCabe	513-324-7204	joe.mccabe@chcfab.com
Universal Contracting	Ben Vogelgesang	513-515-0820	bvogelgesang@universal1957.com

Hamilton County
Economic & Community Support

MBE/WBE/SBE Policies and Procedures Pre-Bid Meeting Overview

Solicitation: Paycor South Transportation Tower Pre Bid

Date: 4-27-2026 **Time:** 10 AM

Location: Paycor Security office

- Hamilton County has small, minority, and women-owned business participation goals for all solicitations.

  The goals for this project are 16.5 % MBE, 4.2 % WBE, and 20 %SBE participation. These goals can be found on page 11 of the solicitation package.

- There are required forms for respondents to complete in the MBE/WBE/SBE policy section of each proposal, including the *Goal Compliance Plan*, the *Application for Program Waiver* (if respondents are unable to meet the project goals), and the *Letter of Intent* (LOI) between the prime contractor and any subcontractor included in the *Goal Compliance Plan*. <u>These forms must be provided when you submit your proposals for your proposal to be deemed responsive.</u>
  - For projects under $1 million, signed, and notarized LOIs between Bidder and all subcontractors/supplies must be included in their Goal Compliance Plan at the time of submission. For larger projects above $1 million, bidders must submit a completed LOI for all MBE/WBE/SBE subcontractors/suppliers listed in the Goal Compliance Plan at the time of submission. The LOI for all other subcontractors can be submitted after the time of submission, but before the contract is awarded.
- These participation goals can be achieved by any company doing work for the project that is MBE, WBE, or SBE certified by a third-party certifying agency.
- If you are not able to meet the participation goals, you must submit the *Application for Program Waiver* in addition to the *Goal Compliance Plan* to demonstrate adequate good faith efforts in engaging small, minority, or women-owned companies.
- If you plan to perform 100% of the work yourself, you must submit the *Goal Compliance Plan* and indicate this in the self-performance section in addition to submitting an *Application for Program Waiver.*
- Preference is not given to proposals based on their ability to meet the project goals or their choice to use the Application for Program Waiver. The Goal Compliance Plan and the Application for Program Waiver are evaluated for responsiveness only. For RFPs, points will not be deducted for filling out the Application for Program Waiver.
- An example of how to complete the inclusion forms can be found here: Sample of **Solicitations Inclusion Form ,** or by visiting our website at **Economic & Community Support - Hamilton County, OH** and clicking on the “Sample Solicitation Insert” tab on the left side of the Home Page.

Pre-Bid Conference
Owner-Controlled Insurance Program ("OCIP") Summary

1. The Board of County Commissioners, Hamilton County, Ohio ("Owner"), has arranged for the Stadium Renovation Project at Paycor Stadium ("Project") to be insured under an Owner-Controlled Insurance Program ("OCIP"). The OCIP will insure:

   Any individual, firm, or corporation undertaking construction or other services under a Contract with Owner (the "Contractor") as well as the Contractor's Subcontractors of any tier (together with the Contractor, the "Contractor Parties") who will be furnishing labor, services, materials and/or equipment, and/or performing operations at the Project Site that has been Enrolled in the OCIP.

2. Certain Contractor Parties will be excluded from the OCIP and are identified in Section 3 of the OCIP Manual which is included within the Project Manual.

3. Participation in the OCIP program is **mandatory** but not automatic.

4. The OCIP provides the following insurance coverages for all Enrolled Parties:
   - General Liability
   - Excess Liability
   - **There is no Workers Compensation under the OCIP.**

5. Bidders should promptly notify its insurance broker/insurer(s) of the coverages provided under this OCIP for "On-Site" activities to avoid the duplication of coverage and the related costs.

6. **Each Bidder is required to exclude from its bid price its normal cost for insurance coverage.**

7. The OCIP Manual is a part of the bid specifications and Bidders are expected to be familiar with the requirements prior to submitting its bid. In addition, the OCIP Manual will be incorporated by reference into the successful bidders awarding Contract and accordingly, all provisions require mandatory compliance.

8. Contractor Parties shall not commence work at the Project Site until:
   a) If enrolled under this OCIP, having received a certificate of insurance issued by Alliant Insurance Services ("OCIP Administrator"), or
   b) If excluded under this OCIP, having provided a certificate of insurance as required in the OCIP Manual.

9. On or before the deadline set forth in the ITB, Bidders shall submit all questions related to the OCIP Program via email to: purchasing@hamiltoncountyohio.gov. Bidders must include the Project Name and ITB number on its written request.

NOTE: Insurance coverages and limits provided under the OCIP Insurance Policies are limited in scope and are specific to work performed after the inception date of enrollment into the Program. Your insurance representative should review this information. Any additional coverage you may wish to purchase will be at your option and expense.