

M&T Bank Stadium

2020 Expansion Joint Replacement

Baltimore, Maryland

PREPARED BY

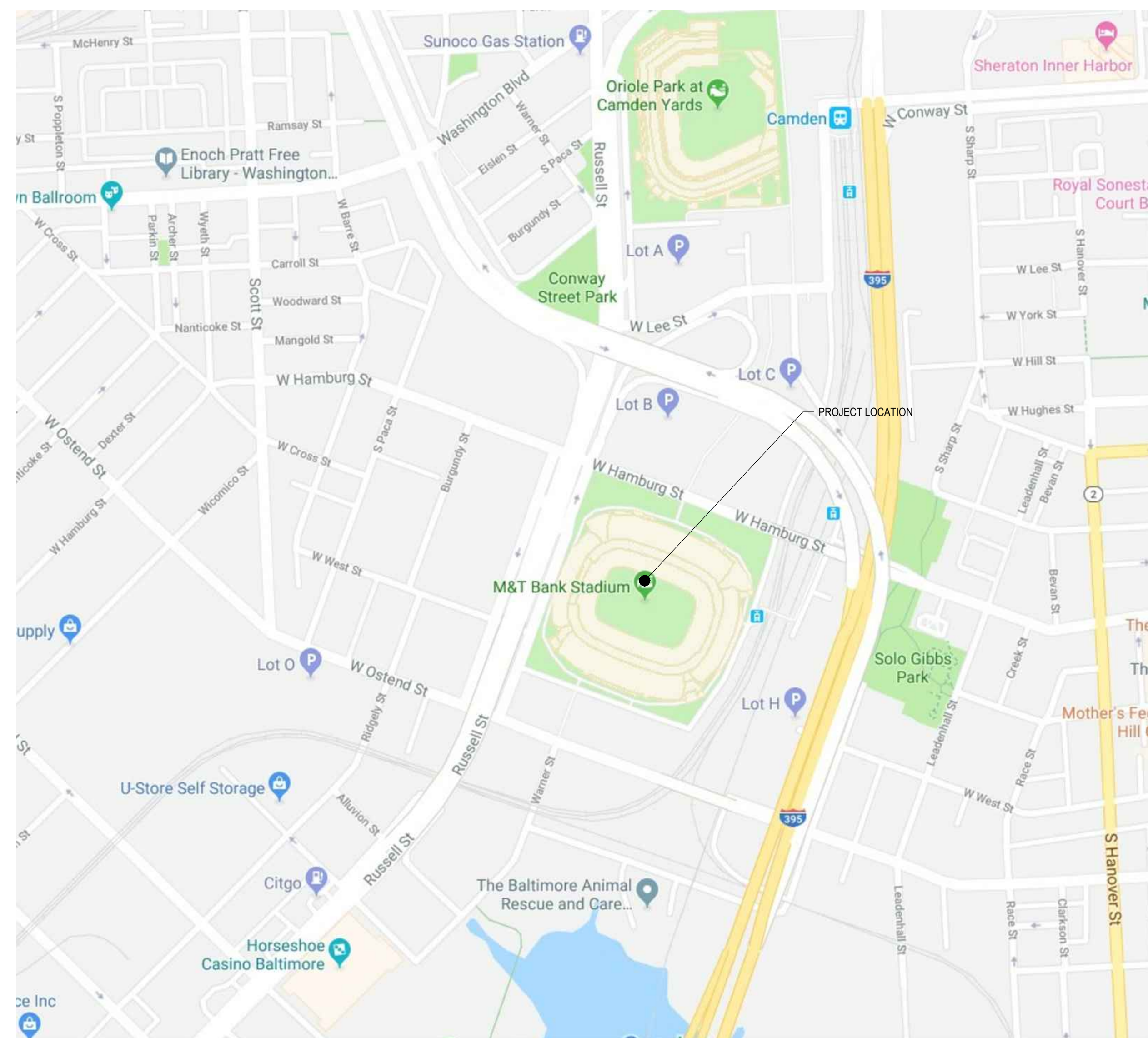


THP Limited, Inc.
 100 East Eighth Street
 Cincinnati, Ohio 45202
 Phone: 513.241.3222
 www.thpltd.com

DRAWING INDEX

- 001 Title Sheet, Drawing Index and General Notes
- 101A Main Concourse - Quadrant A
- 101B Main Concourse - Quadrant B
- 102 Club Level Repair Plan
- 103 Lower Suite Level Repair Plan
- 104 Upper Suite Level Repair Plan
- 105 Upper Concourse Repair Plan

- 901 Concrete and Subsurface Membrane Repair Details
- 902 Sealant Details
- 903 Expansion Joint Repair Details



VICINITY MAP



GENERAL NOTES

CODES

1. ALL WORK SHALL CONFORM TO THE MARYLAND BUILDING CODE, ALL LOCAL AND ALL OSHA REQUIREMENTS. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

PROJECT MANUAL

1. A SEPARATELY BOUND PROJECT MANUAL, DATED NOVEMBER, 2019 EXISTS AND IS PART OF THE CONTRACT DOCUMENTS. SUBSTANTIAL BIDDING, GENERAL CONDITIONS AND TECHNICAL INFORMATION AND REQUIREMENTS ARE INCLUDED IN THE PROJECT MANUAL. CLEARLY ORGANIZED AND DESCRIBED IN SECTIONS CONSISTENT WITH NORMALLY ACCEPTED CONSTRUCTION SPECIFICATION INSTITUTE FORMATS. CONTRACTOR IS TOTALLY RESPONSIBLE FOR ALL REQUIREMENTS OF THIS SPECIFICATION LISTED IN THE PROJECT MANUAL, BUT NOT NECESSARILY INCLUDED ON DRAWINGS.

EXISTING CONDITIONS AND COORDINATION

1. VERIFY ALL EXISTING DIMENSIONS AND BE AWARE OF ALL EXISTING CONDITIONS WHICH RELATE TO THE WORK.

WORK AREA DUST AND DEBRIS CONTROL AND REMOVAL

1. FURNISH ALL SIGNAGE REQUIRED TO CLEARLY ESTABLISH THE WORK AREAS AS RESTRICTED AND OFF LIMITS.
2. FURNISH ALL SIGNAGE (AND ALL OTHER NECESSARY MEASURES) TO SAFELY REROUTE STADIUM PERSONNEL AND PATRONS AROUND WORK AREAS.
3. PROVIDE DUST AND DEBRIS CONTROL MEASURES TO ENSURE ALL DUST AND DEBRIS ETC. GENERATED BY THE WORK REMAINS WITHIN THE WORK AREA AND DOES NOT POSE HAZARDOUS OR OBJECTIONABLE CONDITIONS FOR STADIUM PATRONS AND WORKERS.
4. DISPOSE OF ALL DEBRIS OFF SITE IN A LAWFUL MANNER.

SAFETY

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL 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 WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

ISSUES

NO.	DATE	DESCRIPTION
1	11/16/2019	ISSUE FOR BIDDING
2	11/22/2019	ISSUE FOR BIDDING

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		

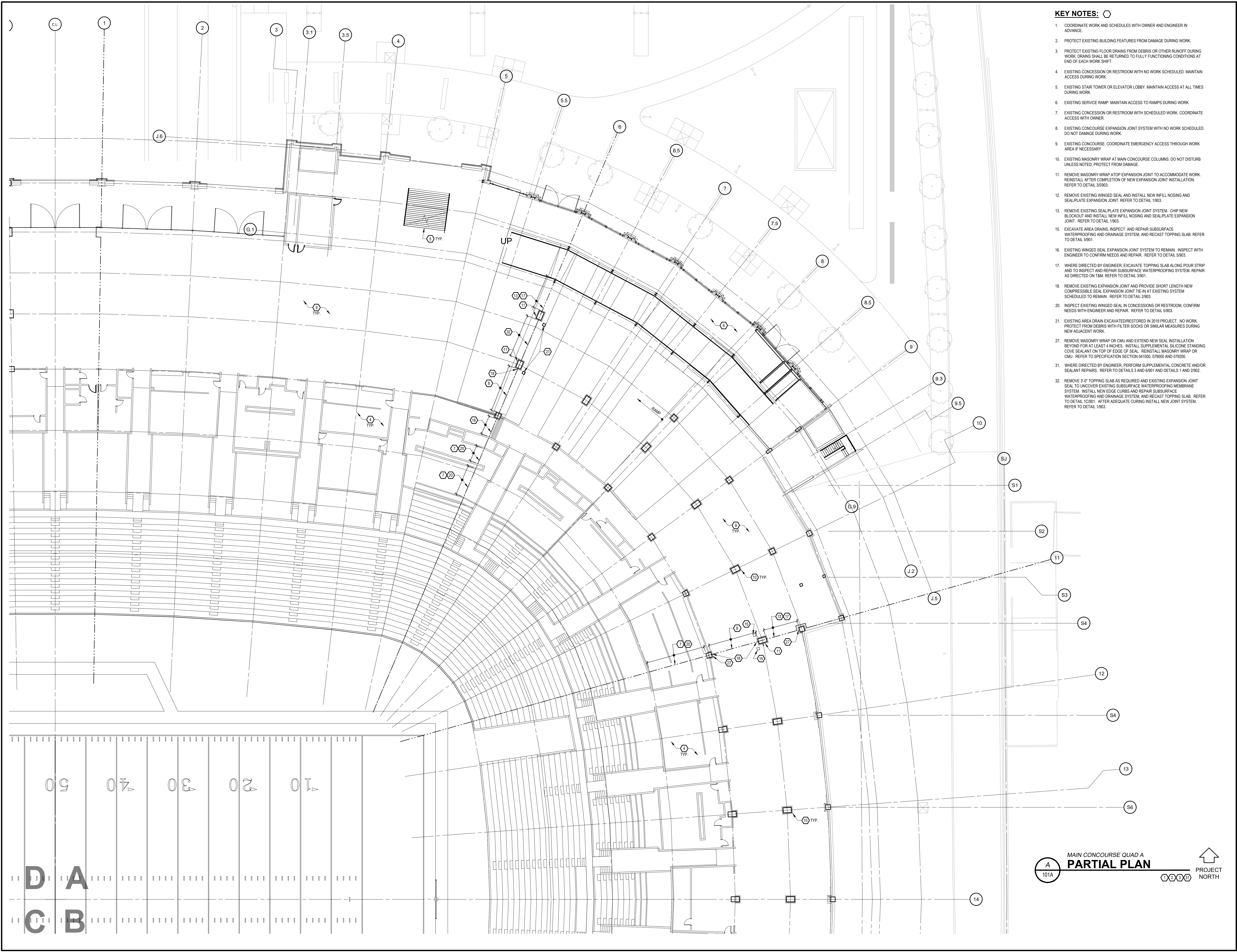
DRAWN BY: P.A. Bellman
 ENGINEER: K.R. Dugan
 CHECKED BY: C.W. Przywara

M&T Bank Stadium
 Expansion Joint
 Replacement

MSA
 Project No. 20-033

DRAWING TITLE
 TITLE SHEET, DRAWING
 INDEX, AND GENERAL
 NOTES

JOB NUMBER: 18556 00
 DATE: NOVEMBER 2019
 DRAWING NUMBER:



KEY NOTES:

1. COORDINATE WORK AND SCHEDULES WITH OWNER AND ENGINEER IN ADVANCE.
2. PROTECT EXISTING BUILDING FEATURES FROM DAMAGE DURING WORK.
3. PROTECT EXISTING FLOOR DRAINS FROM DEBRIS OR OTHER RUNOFF DURING WORK. DRAINS SHALL BE RETURNED TO FULLY FUNCTIONING CONDITIONS AT END OF EACH WORK SHIFT.
4. EXISTING CONCESSION OR RESTROOM WITH NO WORK SCHEDULED. MAINTAIN ACCESS DURING WORK.
5. EXISTING STAIR TOWER OR ELEVATOR LOBBY. MAINTAIN ACCESS AT ALL TIMES DURING WORK.
6. EXISTING SERVICE RAMP. MAINTAIN ACCESS TO RAMPS DURING WORK.
7. EXISTING CONCESSION OR RESTROOM WITH SCHEDULED WORK. COORDINATE ACCESS WITH OWNER.
8. EXISTING CONCOURSE EXPANSION JOINT SYSTEM WITH NO WORK SCHEDULED. DO NOT DAMAGE DURING WORK.
9. EXISTING CONCOURSE. COORDINATE EMERGENCY ACCESS THROUGH WORK AREA IF NECESSARY.
10. EXISTING MASONRY WRAP AT MAIN CONCOURSE COLUMNS. DO NOT DISTURB UNLESS NOTED, PROTECT FROM DAMAGE.
11. REMOVE MASONRY WRAP AT TOP EXPANSION JOINT TO ACCOMMODATE WORK. REINSTALL AFTER COMPLETION OF NEW EXPANSION JOINT INSTALLATION. REFER TO DETAIL 35903.
12. REMOVE EXISTING WINGED SEAL AND INSTALL NEW INFILL NOSING AND SEAL/PLATE EXPANSION JOINT. REFER TO DETAIL 1993.
13. REMOVE EXISTING SEAL/PLATE EXPANSION JOINT SYSTEM. CHIP NEW BLOCKOUT AND INSTALL NEW INFILL NOSING AND SEAL/PLATE EXPANSION JOINT. REFER TO DETAIL 1993.
15. EXCAVATE AREA DRAINS. INSPECT AND REPAIR SUBSURFACE WATERPROOFING AND DRAINAGE SYSTEM, AND RECAST TOPPING SLAB. REFER TO DETAIL 5901.
16. EXISTING WINGED SEAL EXPANSION JOINT SYSTEM TO REMAIN. INSPECT WITH ENGINEER TO CONFIRM NEEDS AND REPAIR. REFER TO DETAIL 5903.
17. WHERE DIRECTED BY ENGINEER, EXCAVATE TOPPING SLAB ALONG POUR STRIP AND TO INSPECT AND REPAIR SUBSURFACE WATERPROOFING SYSTEM. REPAIR AS DIRECTED ON T&M. REFER TO DETAIL 3901.
18. REMOVE EXISTING EXPANSION JOINT AND PROVIDE SHORT LENGTH NEW COMPRESSIBLE SEAL EXPANSION JOINT TIE-IN AT EXISTING SYSTEM SCHEDULED TO REMAIN. REFER TO DETAIL 2093.
20. INSPECT EXISTING WINGED SEAL IN CONCESSIONS OR RESTROOM. CONFIRM NEEDS WITH ENGINEER AND REPAIR. REFER TO DETAIL 5903.
21. EXISTING AREA DRAIN EXCAVATED/RESTORED IN 2019 PROJECT. NO WORK. PROTECT FROM DEBRIS WITH FILTER SOCKS OR SIMILAR MEASURES DURING NEW ADJACENT WORK.
27. REMOVE MASONRY WRAP OR CMU AND EXTEND NEW SEAL INSTALLATION BEYOND FOR AT LEAST 4 INCHES. INSTALL SUPPLEMENTAL SILICONE STANDING COVE SEALANT ON TOP OF EDGE OF SEAL. REINSTALL MASONRY WRAP OR CMU. REFER TO SPECIFICATION SECTION 04100, 07000 AND 07020.
31. WHERE DIRECTED BY ENGINEER, PERFORM SUPPLEMENTAL CONCRETE AND/OR SEALANT REPAIRS. REFER TO DETAILS 3 AND 6/901 AND DETAILS 1 AND 2/902.
32. REMOVE 3'-0" TOPPING SLAB AS REQUIRED AND EXISTING EXPANSION JOINT SEAL TO UNCOVER EXISTING SUBSURFACE WATERPROOFING MEMBRANE SYSTEM. INSTALL NEW EDGE CURBS AND REPAIR SUBSURFACE WATERPROOFING AND DRAINAGE SYSTEM, AND RECAST TOPPING SLAB. REFER TO DETAIL 10901. AFTER ADEQUATE CURING INSTALL NEW JOINT SYSTEM. REFER TO DETAIL 1993.



This document is the product and property of THP Limited. Neither the document nor the information it contains may be copied or reused for other than the specific project for which it was prepared without the written consent of THP Limited.

ISSUES	
11/16/2019	2024 PROJECT - OWNER REVIEW FOR BIDDING
2	11/22/2019

REVISIONS	
1	
2	

DRAWN BY:	P.A. Bellman
ENGINEER:	K.R. Dugan
CHECKED BY:	C.W. Przywara

M&T Bank Stadium Expansion Joint Replacement	
MSA Project No. 20-033	

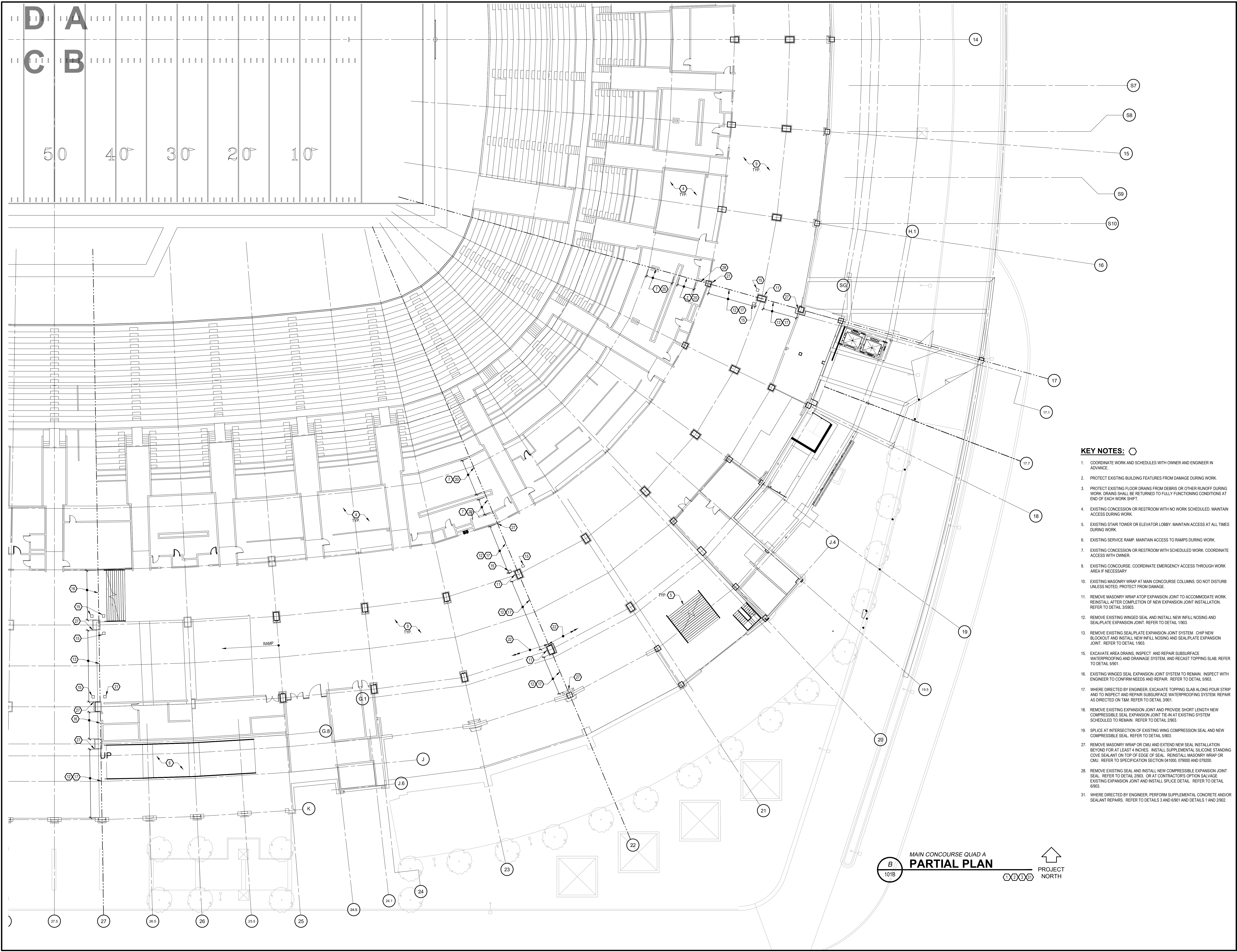
DRAWING TITLE	MAIN CONCOURSE QUAD A
JOB NUMBER	18556.00
DATE	NOVEMBER 2019
DRAWING NUMBER	101A

MAIN CONCOURSE QUAD A PARTIAL PLAN
PROJECT NORTH



D A
C B

50 40 30 20 10



- KEY NOTES:** ○
- COORDINATE WORK AND SCHEDULES WITH OWNER AND ENGINEER IN ADVANCE.
 - PROTECT EXISTING BUILDING FEATURES FROM DAMAGE DURING WORK.
 - PROTECT EXISTING FLOOR DRAINS FROM DEBRIS OR OTHER RUNOFF DURING WORK. DRAINS SHALL BE RETURNED TO FULLY FUNCTIONING CONDITIONS AT END OF EACH WORK SHIFT.
 - EXISTING CONCESSION OR RESTROOM WITH NO WORK SCHEDULED. MAINTAIN ACCESS DURING WORK.
 - EXISTING STAIR TOWER OR ELEVATOR LOBBY. MAINTAIN ACCESS AT ALL TIMES DURING WORK.
 - EXISTING SERVICE RAMP. MAINTAIN ACCESS TO RAMPS DURING WORK.
 - EXISTING CONCESSION OR RESTROOM WITH SCHEDULED WORK. COORDINATE ACCESS WITH OWNER.
 - EXISTING CONCOURSE. COORDINATE EMERGENCY ACCESS THROUGH WORK AREA IF NECESSARY.
 - EXISTING MASONRY WRAP AT MAIN CONCOURSE COLUMNS. DO NOT DISTURB UNLESS NOTED. PROTECT FROM DAMAGE.
 - REMOVE MASONRY WRAP ATOP EXPANSION JOINT TO ACCOMMODATE WORK. REINSTALL AFTER COMPLETION OF NEW EXPANSION JOINT INSTALLATION. REFER TO DETAIL 3/9/03.
 - REMOVE EXISTING WINGED SEAL AND INSTALL NEW INFILL NOSING AND SEALPLATE EXPANSION JOINT. REFER TO DETAIL 1/9/03.
 - REMOVE EXISTING SEALPLATE EXPANSION JOINT SYSTEM. CHIP NEW BLOCKOUT AND INSTALL NEW INFILL NOSING AND SEALPLATE EXPANSION JOINT. REFER TO DETAIL 1/9/03.
 - EXCAVATE AREA DRAINS. INSPECT AND REPAIR SUBSURFACE WATERPROOFING AND DRAINAGE SYSTEM, AND RECAST TOPPING SLAB. REFER TO DETAIL 5/9/01.
 - EXISTING WINGED SEAL EXPANSION JOINT SYSTEM TO REMAIN. INSPECT WITH ENGINEER TO CONFIRM NEEDS AND REPAIR. REFER TO DETAIL 5/9/03.
 - WHERE DIRECTED BY ENGINEER, EXCAVATE TOPPING SLAB ALONG POUR STRIP AND TO INSPECT AND REPAIR SUBSURFACE WATERPROOFING SYSTEM. REPAIR AS DIRECTED ON T&M. REFER TO DETAIL 3/9/01.
 - REMOVE EXISTING EXPANSION JOINT AND PROVIDE SHORT LENGTH NEW COMPRESSIBLE SEAL. EXPANSION JOINT TIE-IN AT EXISTING SYSTEM! SCHEDULED TO REMAIN. REFER TO DETAIL 2/9/03.
 - SPlice AT INTERSECTION OF EXISTING WING COMPRESSION SEAL AND NEW COMPRESSIBLE SEAL. REFER TO DETAIL 5/9/03.
 - REMOVE MASONRY WRAP OR CMU AND EXTEND NEW SEAL INSTALLATION BEYOND FOR AT LEAST 4 INCHES. INSTALL SUPPLEMENTAL SILICONE STANDING COVE SEALANT ON TOP OF EDGE OF SEAL. REINSTALL MASONRY WRAP OR CMU. REFER TO SPECIFICATION SECTION 041000, 079000 AND 079200.
 - REMOVE EXISTING SEAL AND INSTALL NEW COMPRESSIBLE EXPANSION JOINT SEAL. REFER TO DETAIL 2/9/03. OR AT CONTRACTOR'S OPTION SALVAGE EXISTING EXPANSION JOINT AND INSTALL SPLICE DETAIL. REFER TO DETAIL 6/9/03.
 - WHERE DIRECTED BY ENGINEER, PERFORM SUPPLEMENTAL CONCRETE AND/OR SEALANT REPAIRS. REFER TO DETAILS 3 AND 6/9/01 AND DETAILS 1 AND 2/9/02.

B
 101B
 MAIN CONCOURSE QUAD A
PARTIAL PLAN
 PROJECT NORTH

ISSUES	DATE	DESCRIPTION
1	11/16/2019	2024 PROJECT - OWNER REVIEW FOR BIDDING
2	11/22/2019	

REVISIONS	DATE	DESCRIPTION

DRAWN BY: P.A. Bellman
 ENGINEER: K.R. Dugan
 CHECKED BY: C.W. Przywara

**M&T Bank Stadium
 Expansion Joint
 Replacement**

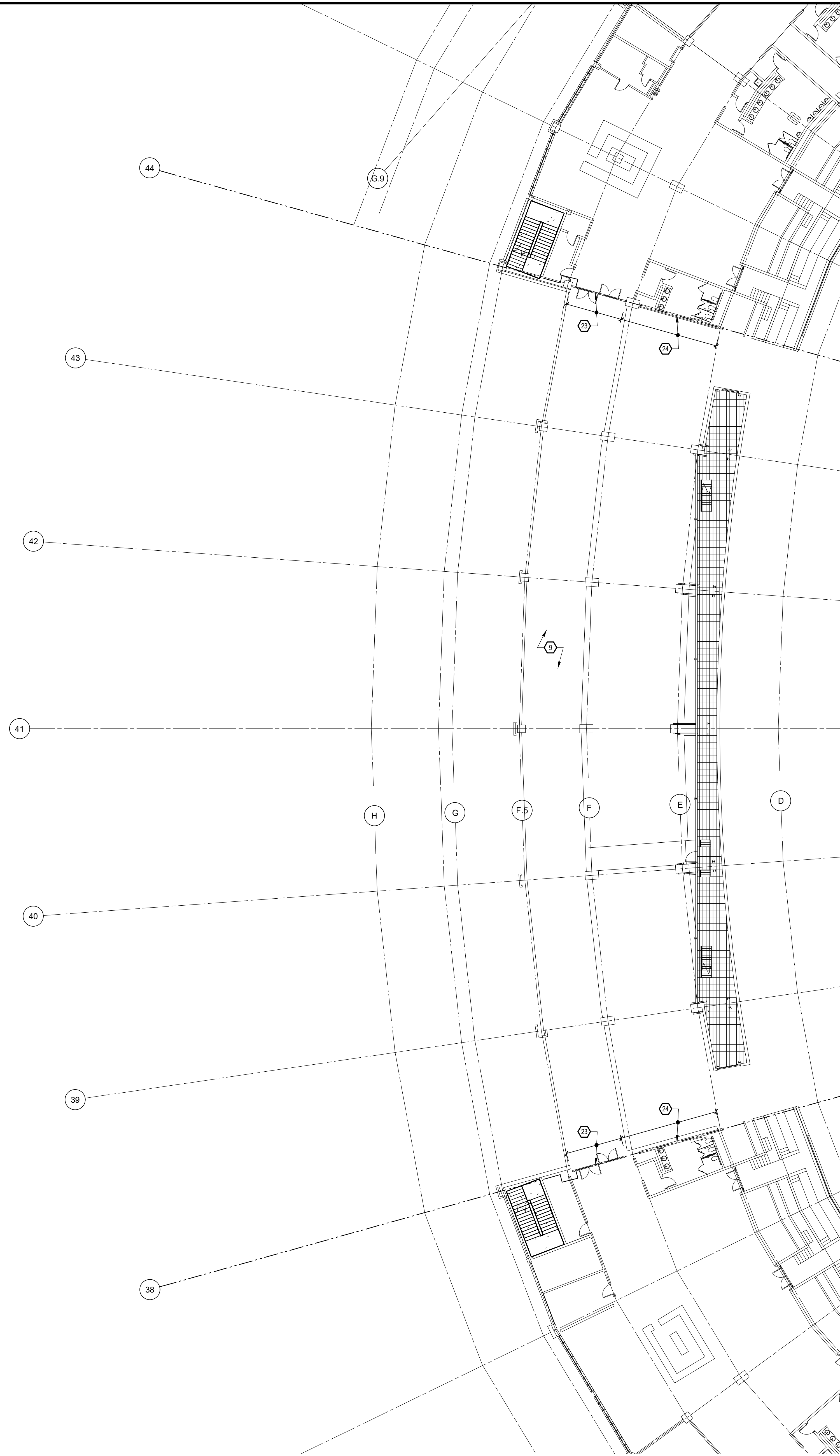
MSA
 Project No. 20-033

DRAWING TITLE
**MAIN CONCOURSE
 QUAD B**

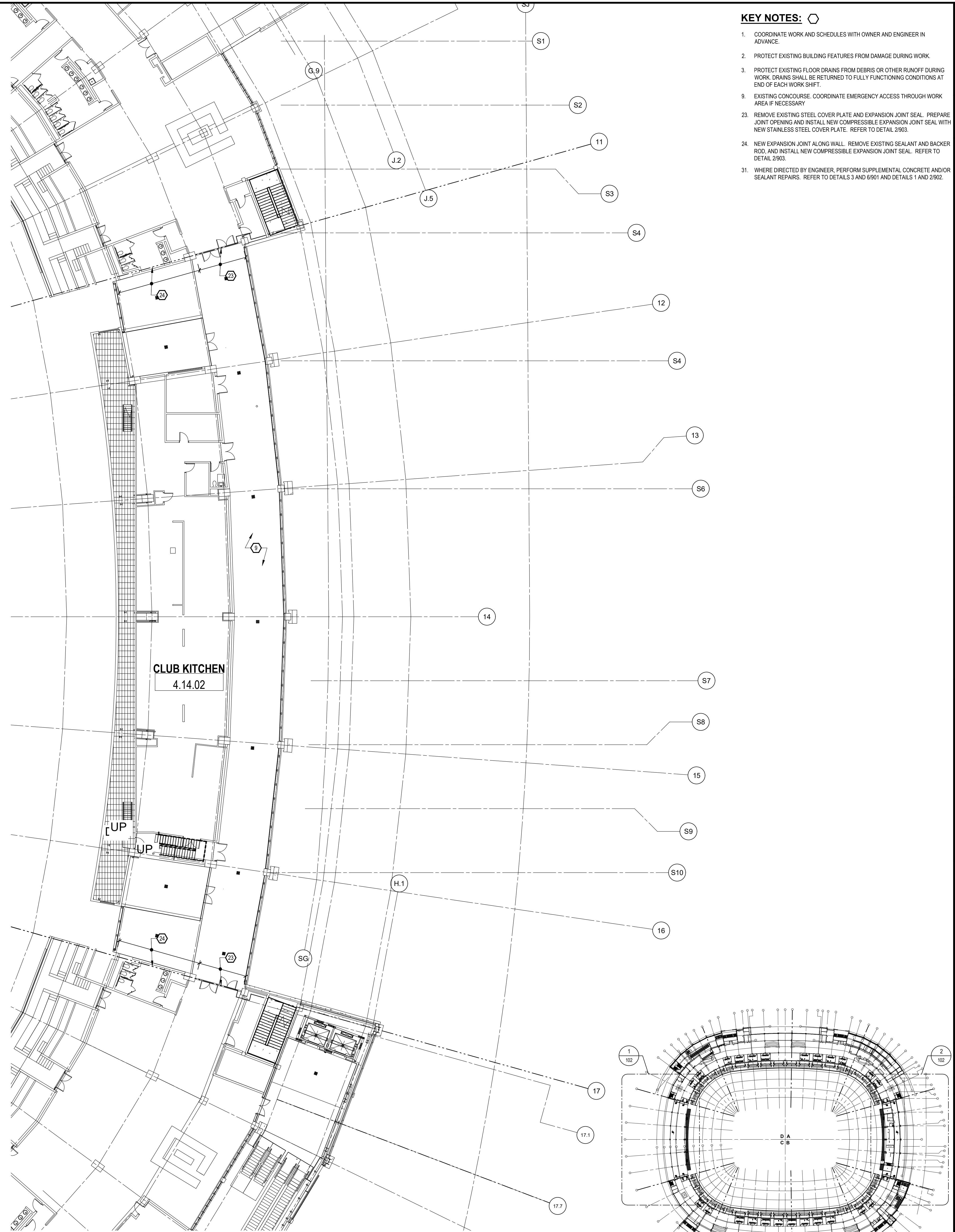
JOB NUMBER DATE
 18556 00 NOVEMBER 2019
 DRAWING NUMBER

101B

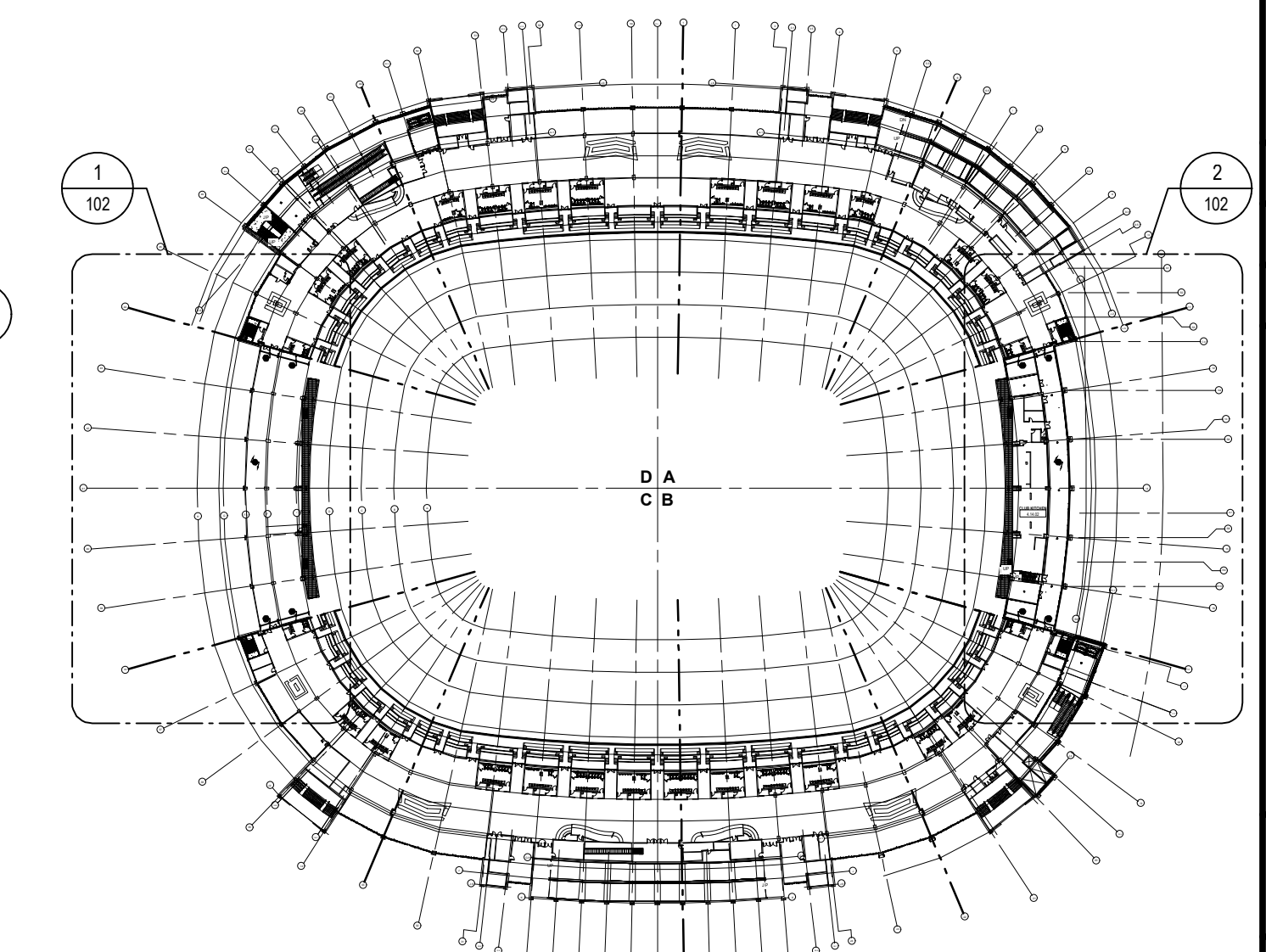
- KEY NOTES:**
- COORDINATE WORK AND SCHEDULES WITH OWNER AND ENGINEER IN ADVANCE.
 - PROTECT EXISTING BUILDING FEATURES FROM DAMAGE DURING WORK.
 - PROTECT EXISTING FLOOR DRAINS FROM DEBRIS OR OTHER RUNOFF DURING WORK. DRAINS SHALL BE RETURNED TO FULLY FUNCTIONING CONDITIONS AT END OF EACH WORK SHIFT.
 - EXISTING CONCOURSE: COORDINATE EMERGENCY ACCESS THROUGH WORK AREA IF NECESSARY.
 - REMOVE EXISTING STEEL COVER PLATE AND EXPANSION JOINT SEAL. PREPARE JOINT OPENING AND INSTALL NEW COMPRESSIBLE EXPANSION JOINT SEAL WITH NEW STAINLESS STEEL COVER PLATE. REFER TO DETAIL 2903.
 - NEW EXPANSION JOINT ALONG WALL. REMOVE EXISTING SEALANT AND BACKER ROD, AND INSTALL NEW COMPRESSIBLE EXPANSION JOINT SEAL. REFER TO DETAIL 2903.
 - WHERE DIRECTED BY ENGINEER, PERFORM SUPPLEMENTAL CONCRETE AND/OR SEALANT REPAIRS. REFER TO DETAILS 3 AND 6/901 AND DETAILS 1 AND 2/902.



1 CLUB LEVEL
PARTIAL PLAN
 1/16" = 1'-0"



2 CLUB LEVEL
PARTIAL PLAN
 1/16" = 1'-0"



KEY PLAN
 NOT TO SCALE

ISSUES	NO.	DATE	DESCRIPTION
	1	11/16/2018	FOR PROJECT - OWNER REVIEW
	2	11/23/2018	FOR BIDDING

REVISIONS	NO.	DATE	DESCRIPTION
	1		
	2		

DRAWN BY:	P.A. Bellman
ENGINEER:	K.R. Dugan
CHECKED BY:	C.W. Przywara

**M&T Bank Stadium
 Expansion Joint
 Replacement**

MSA
 Project No. 20-033

DRAWING TITLE
**CLUB LEVEL
 REPAIR PLAN**

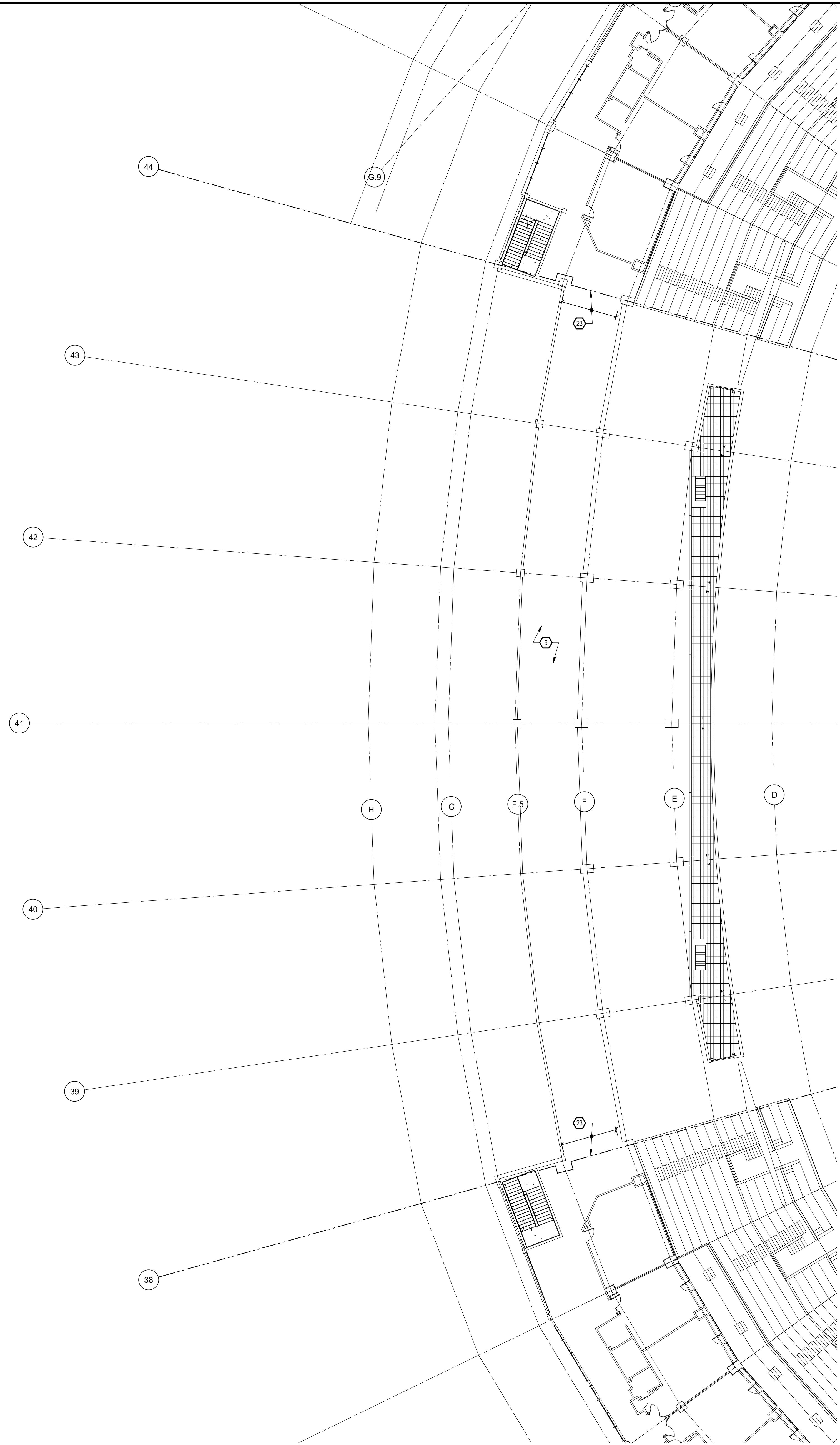
JOB NUMBER
 18556.00

DATE
 NOVEMBER 2019

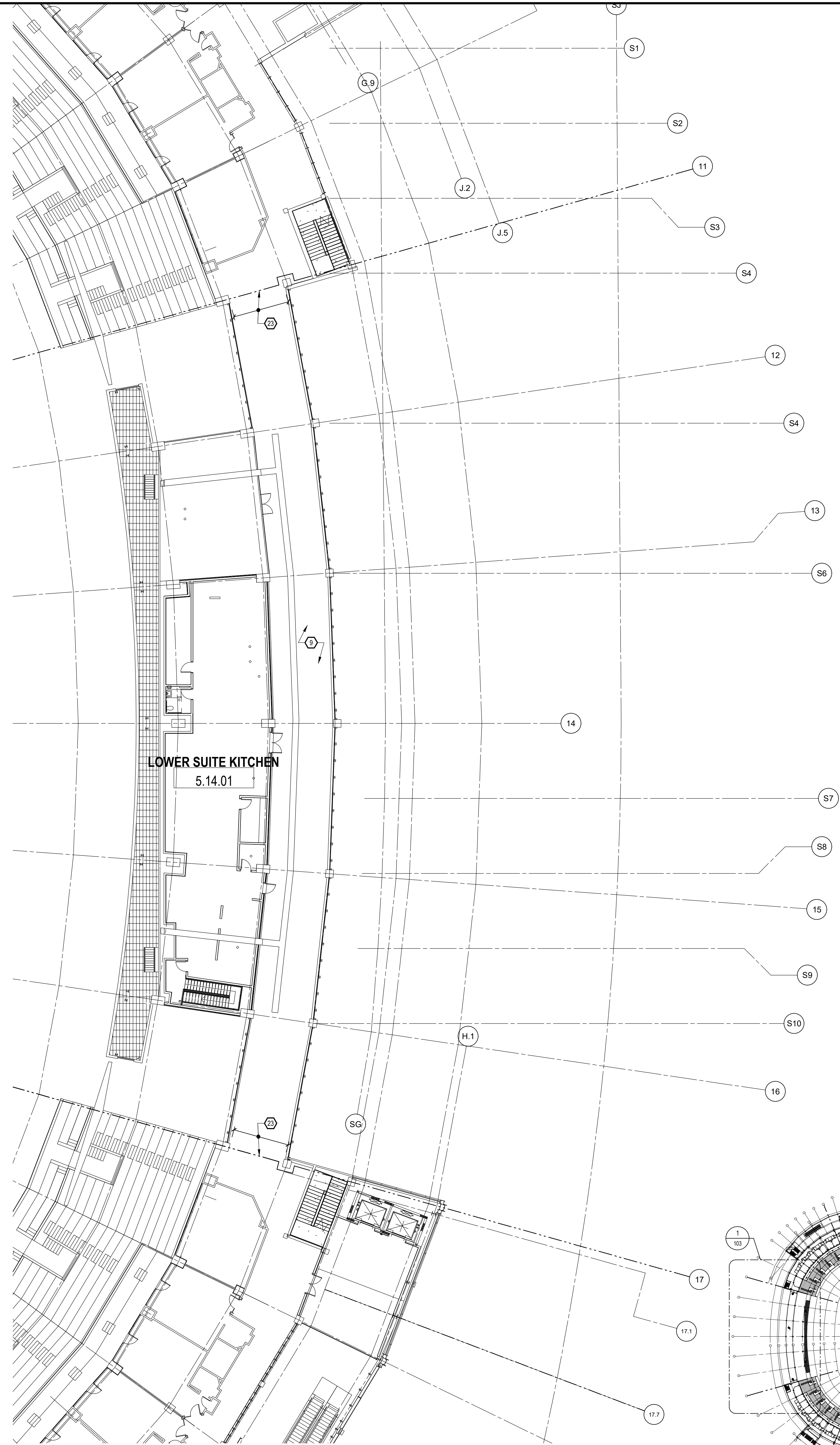
DRAWING NUMBER
102



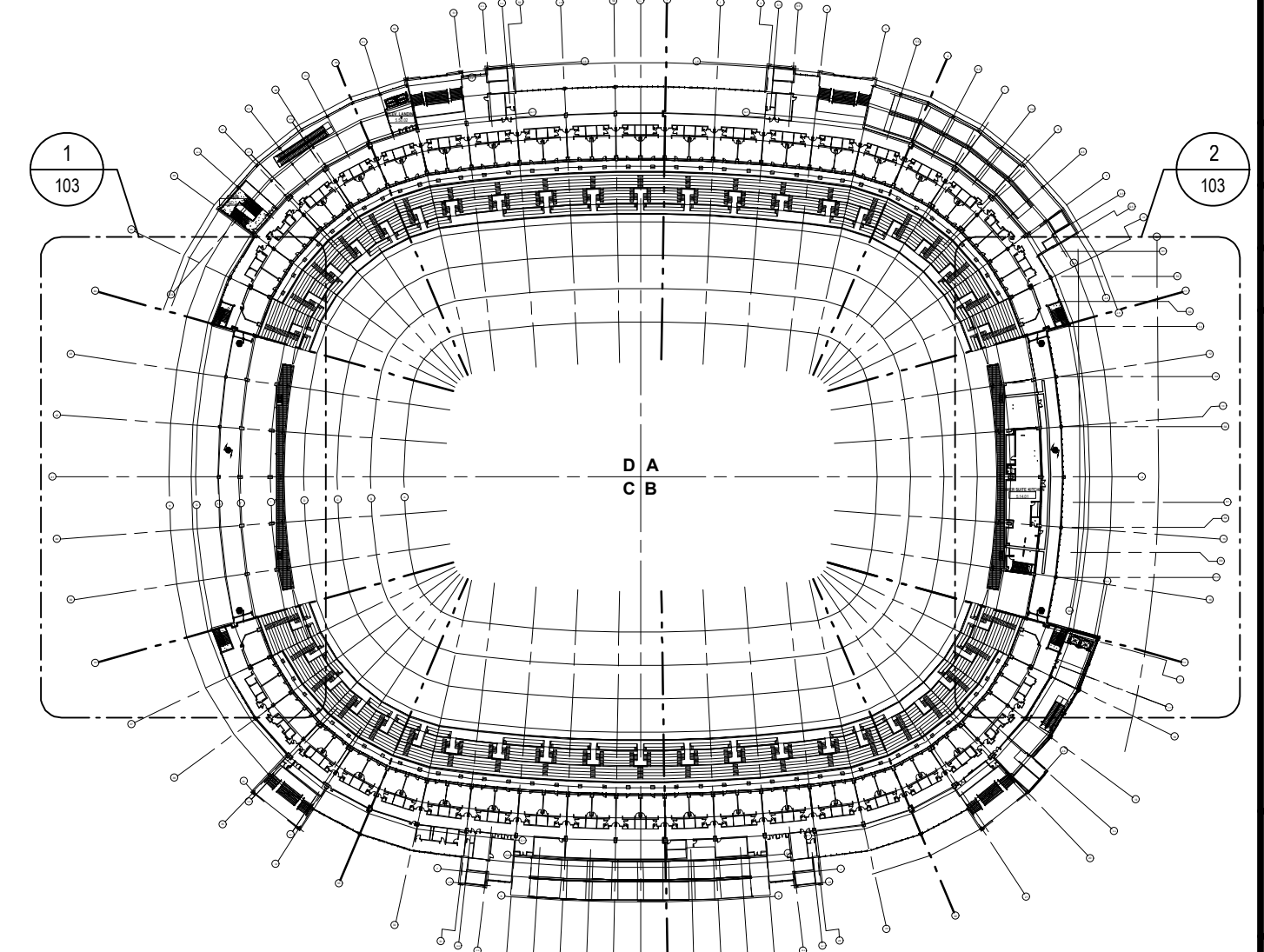
- KEY NOTES:**
- COORDINATE WORK AND SCHEDULES WITH OWNER AND ENGINEER IN ADVANCE.
 - PROTECT EXISTING BUILDING FEATURES FROM DAMAGE DURING WORK.
 - PROTECT EXISTING FLOOR DRAINS FROM DEBRIS OR OTHER RUNOFF DURING WORK. DRAINS SHALL BE RETURNED TO FULLY FUNCTIONING CONDITIONS AT END OF EACH WORK SHIFT.
 - EXISTING CONCOURSE: COORDINATE EMERGENCY ACCESS THROUGH WORK AREA IF NECESSARY.
 - REMOVE EXISTING STEEL COVER PLATE AND EXPANSION JOINT SEAL. PREPARE JOINT OPENING AND INSTALL NEW COMPRESSIBLE EXPANSION JOINT SEAL WITH NEW STAINLESS STEEL COVER PLATE. REFER TO DETAIL 21003.
 - WHERE DIRECTED BY ENGINEER, PERFORM SUPPLEMENTAL CONCRETE AND/OR SEALANT REPAIRS. REFER TO DETAILS 3 AND 6901 AND DETAILS 1 AND 2902.



1
 103
 LOWER SUITE LEVEL
PARTIAL PLAN
 1/16" = 1'-0"



2
 103
 LOWER SUITE LEVEL
PARTIAL PLAN
 1/16" = 1'-0"



KEY PLAN
 NOT TO SCALE

ISSUES	DATE	DESCRIPTION
1	11/16/2018	FOR PROJECT OWNER REVIEW
2	11/22/2018	FOR BIDDING

DRAWN BY:	P.A. Bellman
ENGINEER:	K.R. Dugan
CHECKED BY:	C.W. Przywara

**M&T Bank Stadium
 Expansion Joint
 Replacement**

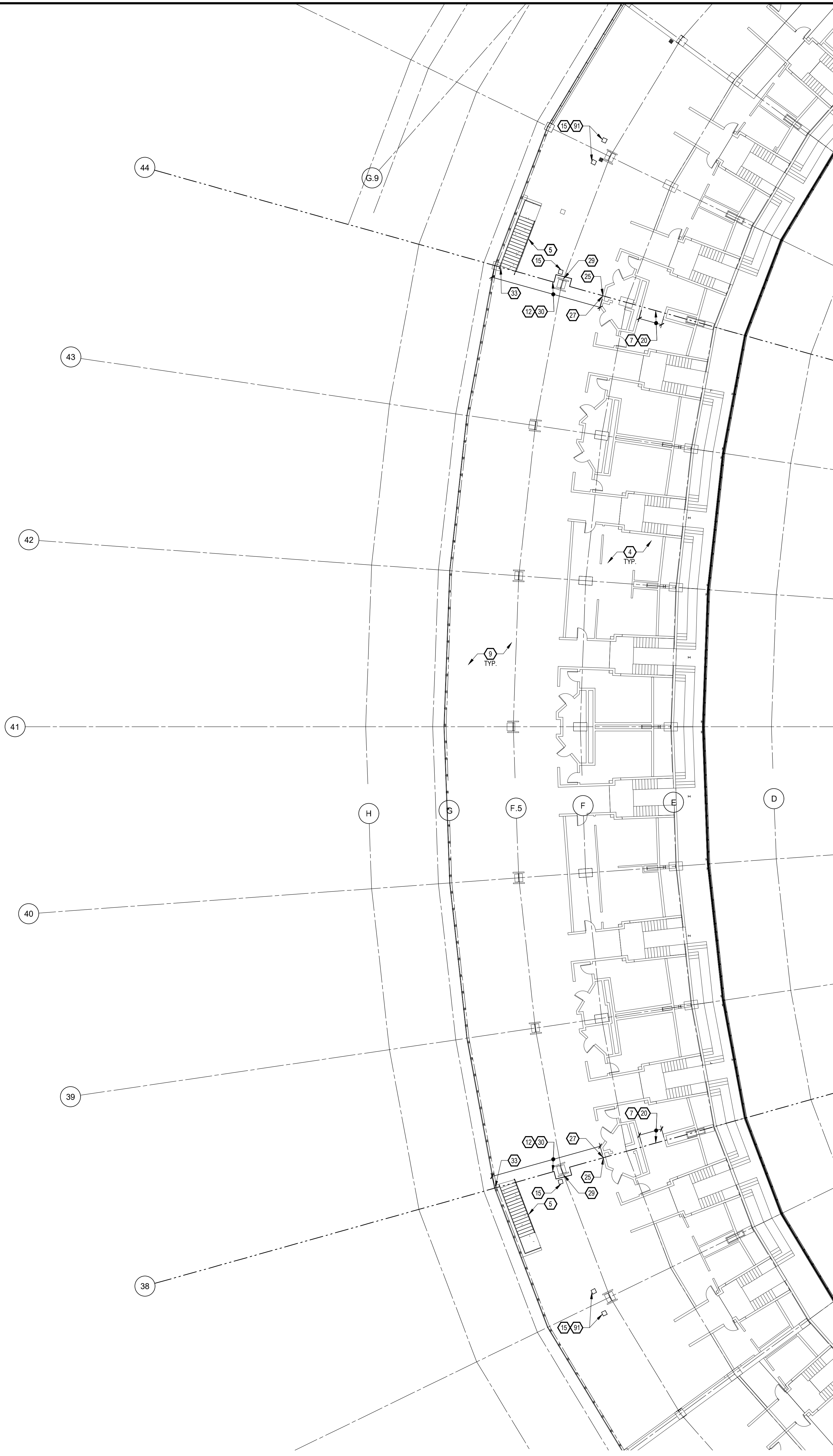
MSA
 Project No. 20-033

DRAWING TITLE	LOWER SUITE LEVEL REPAIR PLAN
JOB NUMBER	18556.00
DATE	NOVEMBER 2019
DRAWING NUMBER	103

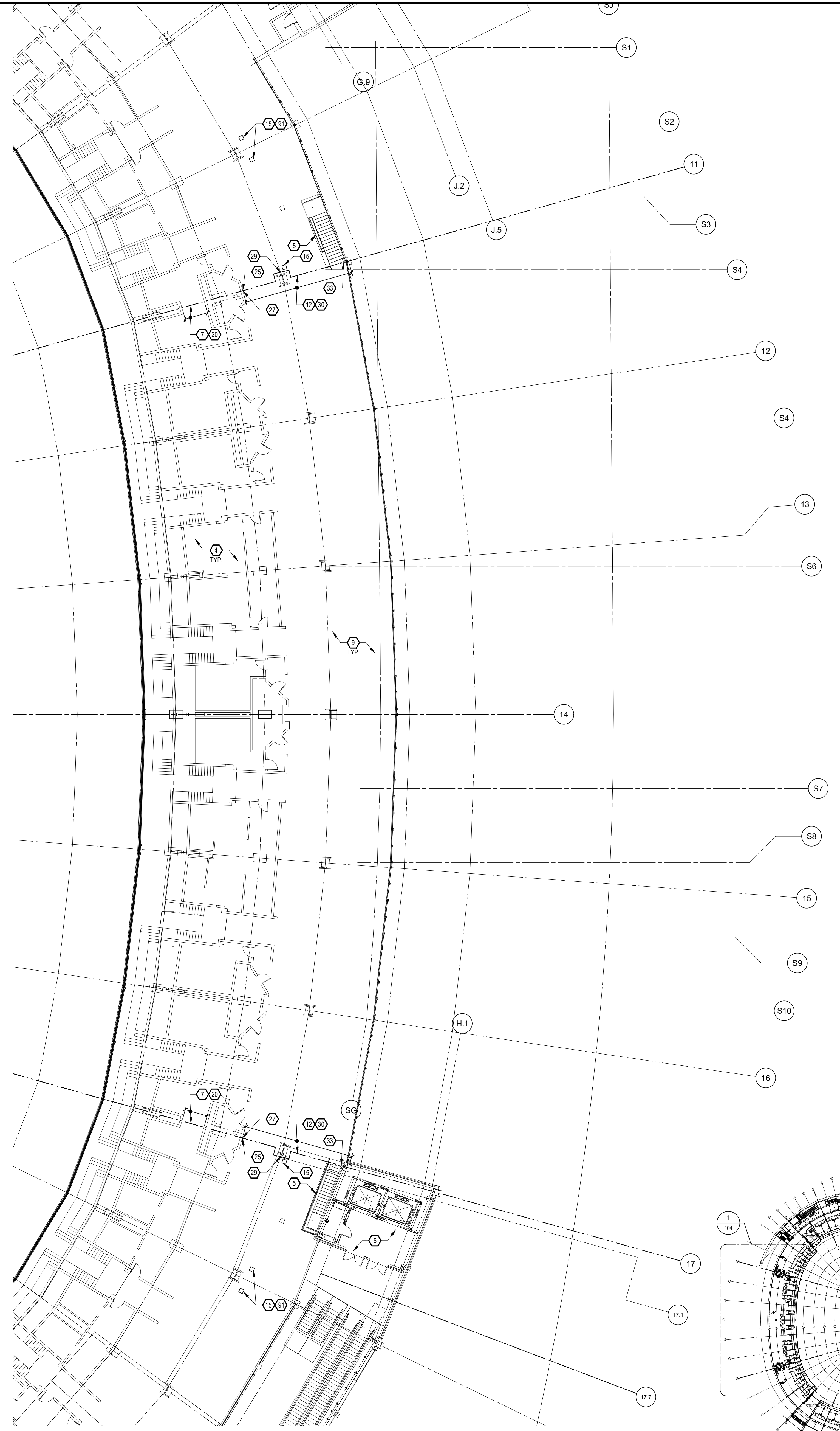


KEY NOTES: ☐

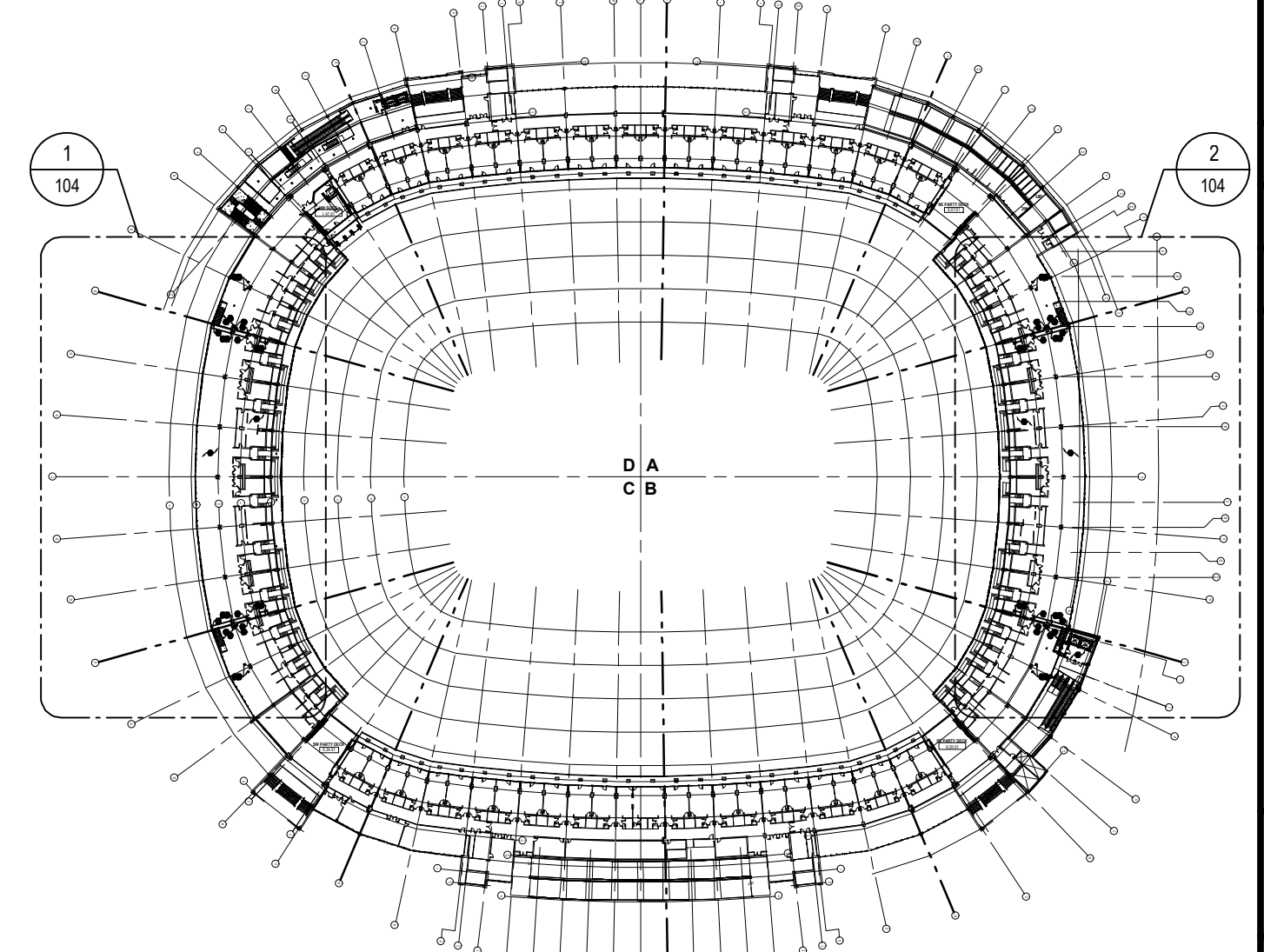
1. COORDINATE WORK AND SCHEDULES WITH OWNER AND ENGINEER IN ADVANCE.
2. PROTECT EXISTING BUILDING FEATURES FROM DAMAGE DURING WORK.
3. PROTECT EXISTING FLOOR DRAINS FROM DEBRIS OR OTHER RUNOFF DURING WORK. DRAINS SHALL BE RETURNED TO FULLY FUNCTIONING CONDITIONS AT END OF EACH WORK SHIFT.
4. EXISTING CONCESSION OR RESTROOM WITH NO WORK SCHEDULED. MAINTAIN ACCESS DURING WORK.
5. EXISTING STAIR TOWER OR ELEVATOR LOBBY. MAINTAIN ACCESS AT ALL TIMES DURING WORK.
7. EXISTING CONCESSION OR RESTROOM WITH SCHEDULED WORK. COORDINATE ACCESS WITH OWNER.
9. EXISTING CONCOURSE: COORDINATE EMERGENCY ACCESS THROUGH WORK AREA IF NECESSARY.
12. REMOVE EXISTING WINGED SEAL AND INSTALL NEW INFILL NOSING AND SEAL/PLATE EXPANSION JOINT. REFER TO DETAIL 1903.
15. EXCAVATE AREA DRAINS. INSPECT AND REPAIR SUBSURFACE WATERPROOFING AND DRAINAGE SYSTEM, AND RECAST TOPPING SLAB. REFER TO DETAIL 5901.
20. INSPECT EXISTING WINGED SEAL IN CONCESSIONS OR RESTROOM, CONFIRM NEEDS WITH ENGINEER AND REPAIR. REFER TO DETAIL 5903.
25. REMOVE EXISTING WALL SEAL MATERIALS. PREPARE SURFACES AND INSTALL NEW VERTICAL COMPRESSIBLE SEAL. PROVIDE SUPPLEMENTAL SILICONE COVE AND BUTT JOINT SEALANTS AT TOP AND BOTTOM OF NEW SEAL. REFER TO DETAIL 4903.
27. REMOVE MASONRY WRAP OR CMU AND EXTEND NEW SEAL INSTALLATION BEYOND FOR AT LEAST 4 INCHES. INSTALL SUPPLEMENTAL SILICONE STANDING COVE SEALANT ON TOP OF EDGE OF SEAL. REINSTALL MASONRY WRAP OR CMU. REFER TO SPECIFICATION SECTION 041000, 078000 AND 079200.
29. NEW CONCRETE WASH WITH NEW COMPRESSIBLE EXPANSION JOINT SEAL AT MID CONCOURSE COLUMNS. REFER TO DETAIL 7901.
30. PERFORM TWO 1'-4" LONG EXCAVATIONS AT EXISTING EXPANSION JOINT TO CONFIRM SUBSURFACE CONDITIONS PRIOR TO START OF WORK PER NOTE 12, WHERE DIRECTED BY ENGINEER. CONTINUE WITH EXCAVATIONS ALONG JOINT. REFER TO DETAIL 2901.
31. WHERE DIRECTED BY ENGINEER, PERFORM SUPPLEMENTAL CONCRETE AND/OR SEALANT REPAIRS. REFER TO DETAILS 3 AND 6/901 AND DETAILS 1 AND 2/902.
33. EXTEND NEW EXPANSION JOINT SYSTEM INSTALLATION ONTO RAISED CURB. REFER TO DETAIL 7903.
91. ADD ALTERNATE NO. 1 WORK FOR ALL NOTE 15 WORK NOT ADJACENT TO EXPANSION JOINTS.



UPPER SUITE LEVEL
1 PARTIAL PLAN
 1/16" = 1'-0"



UPPER SUITE LEVEL
2 PARTIAL PLAN
 1/16" = 1'-0"



KEY PLAN
 NOT TO SCALE

ISSUES	DATE	DESCRIPTION	OWNER REVIEW
1	11/16/2018	POST PROJECT	
2	11/22/2018	FOR BIDDING	

DRAWN BY: P.A. Bellman
 ENGINEER: K.R. Dugan
 CHECKED BY: C.W. Przywara

**M&T Bank Stadium
 Expansion Joint
 Replacement**

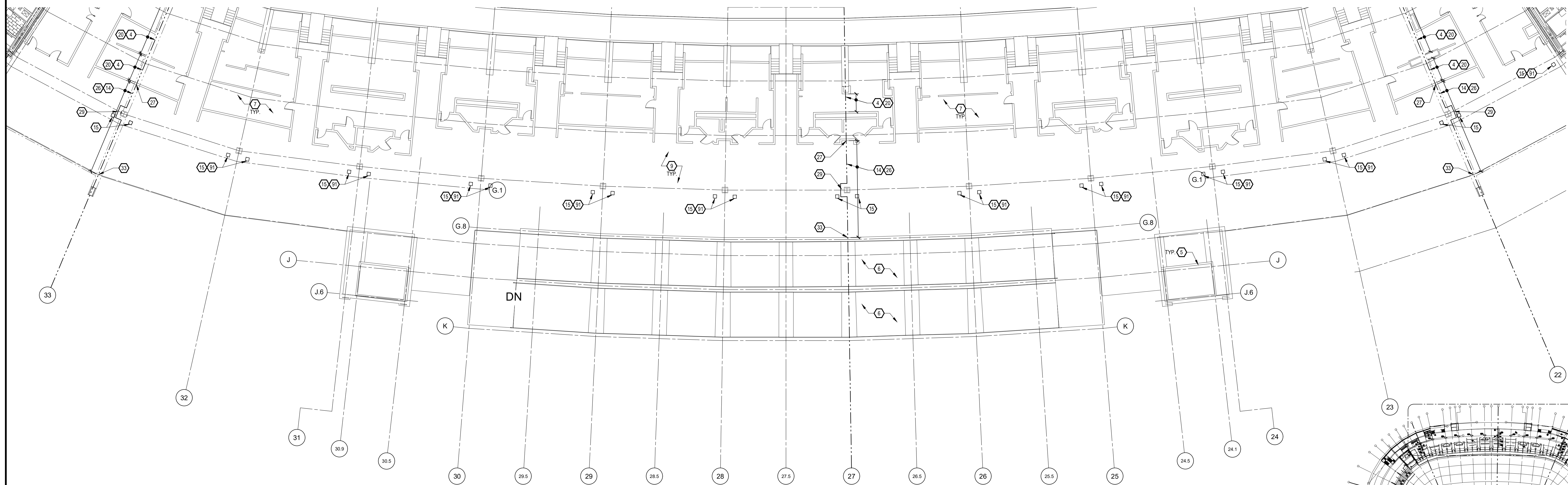
MSA
 Project No. 20-033

DRAWING TITLE
**UPPER SUITE LEVEL
 REPAIR PLAN**

JOB NUMBER: 18556.00
 DATE: NOVEMBER 2019
 DRAWING NUMBER:



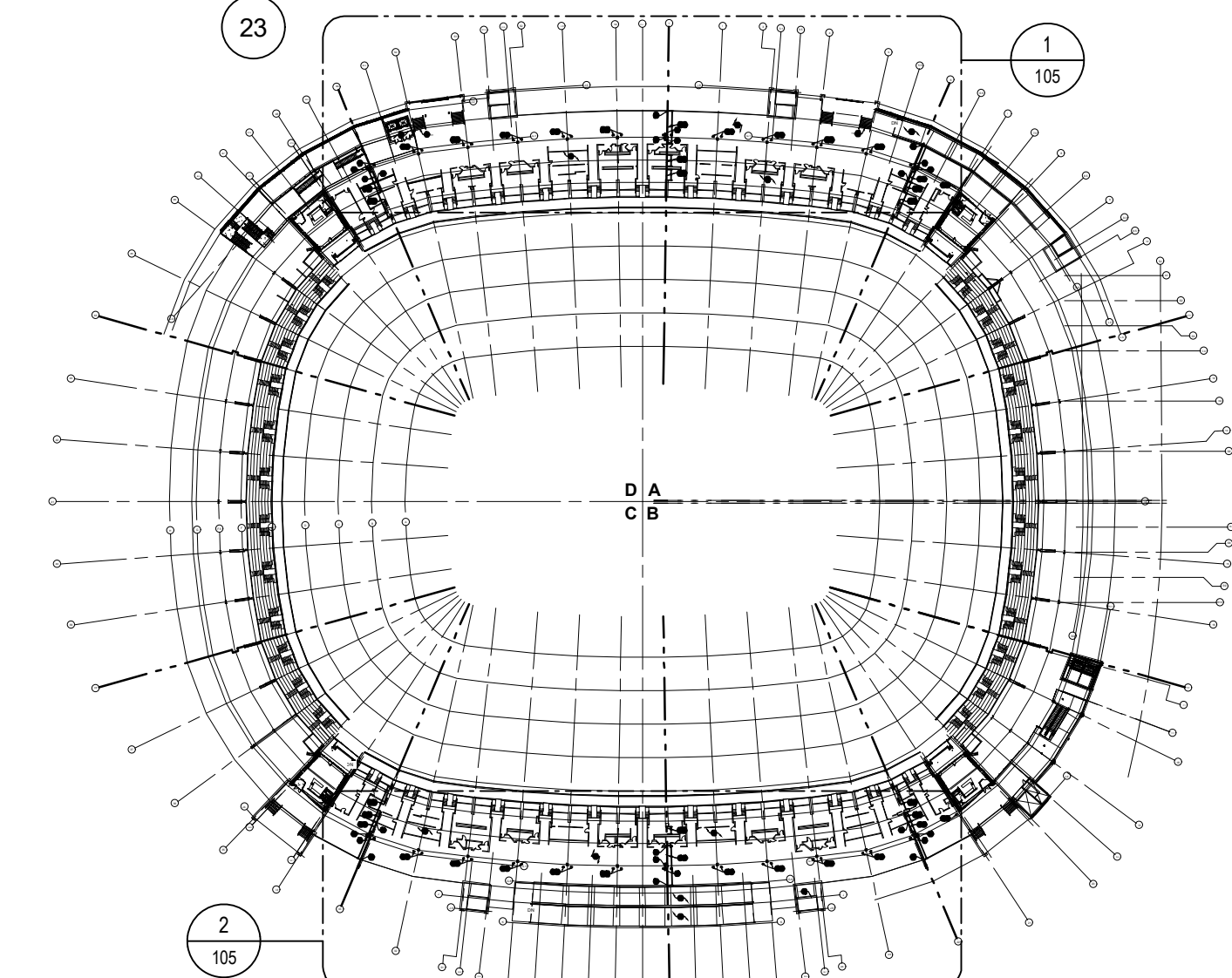
1
 105
 UPPER CONCOURSE
PARTIAL PLAN
 1/16" = 1'-0"
 1 2 3 4



2
 105
 UPPER CONCOURSE
PARTIAL PLAN
 1/16" = 1'-0"
 1 2 3 4

KEY NOTES: ○

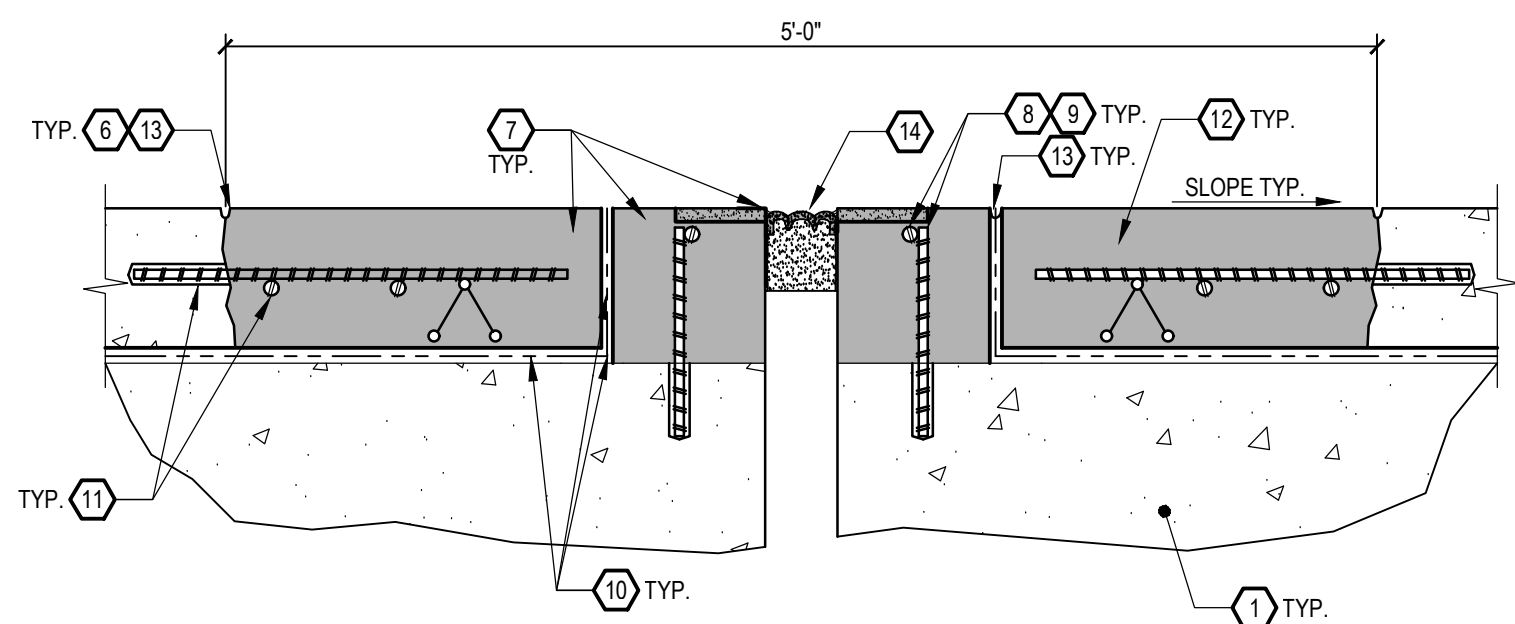
1. COORDINATE WORK AND SCHEDULES WITH OWNER AND ENGINEER IN ADVANCE.
2. PROTECT EXISTING BUILDING FEATURES FROM DAMAGE DURING WORK.
3. PROTECT EXISTING FLOOR DRAINS FROM DEBRIS OR OTHER RUNOFF DURING WORK. DRAINS SHALL BE RETURNED TO FULLY FUNCTIONING CONDITIONS AT END OF EACH WORK SHIFT.
4. EXISTING CONCESSION OR RESTROOM WITH NO WORK SCHEDULED. MAINTAIN ACCESS DURING WORK.
5. EXISTING STAIR TOWER OR ELEVATOR LOBBY. MAINTAIN ACCESS AT ALL TIMES DURING WORK.
6. EXISTING SERVICE RAMP. MAINTAIN ACCESS TO RAMPS DURING WORK.
7. EXISTING CONCESSION OR RESTROOM WITH SCHEDULED WORK. COORDINATE ACCESS WITH OWNER.
8. EXISTING CONCOURSE. COORDINATE EMERGENCY ACCESS THROUGH WORK AREA IF NECESSARY.
9. REMOVE 2'-6" TOPPING SLAB AS REQUIRED AND EXISTING EXPANSION JOINT SEAL. TO UNCOVER EXISTING SUBSURFACE WATERPROOFING MEMBRANE SYSTEM. EXTEND TOPPING SLAB REMOVALS TO ENCOMPASS ADJACENT AREA DRAINS WHERE INDICATED PER NOTE 15. INSPECT AND REPAIR SUBSURFACE WATERPROOFING AND DRAINAGE SYSTEM AND RECAST TOPPING SLAB. REFER TO DETAIL 1501. PROVIDE BLOCCOUT FOR NEW EXPANSION JOINT COVER PLATE SYSTEM IN TOPPING SLAB. AFTER ADEQUATE CURING INSTALL NEW JOINT SYSTEM. REFER TO DETAIL 1503.
10. EXCAVATE AREA DRAINS, INSPECT AND REPAIR SUBSURFACE WATERPROOFING AND DRAINAGE SYSTEM, AND RECAST TOPPING SLAB. REFER TO DETAIL 5501.
11. INSPECT EXISTING WINGED SEAL IN CONCESSIONS OR RESTROOM. CONFIRM NEEDS WITH ENGINEER AND REPAIR. REFER TO DETAIL 5903.
12. COORDINATE TOPPING SLAB REMOVAL/REPLACEMENT WITH STADIUM MANAGEMENT STAFF. ASSUME NEED TO PERFORM WORK IN 2 PHASES TO MAINTAIN CIRCULATION ON CONCOURSE FOR STADIUM OPERATIONS.
13. REMOVE MASONRY WRAP OR CMU AND EXTEND NEW SEAL INSTALLATION BEYOND FOR AT LEAST 4 INCHES. INSTALL SUPPLEMENTAL SILICONE STANDING COVE SEALANT ON TOP OF EDGE OF SEAL. REINSTALL MASONRY WRAP OR CMU. REFER TO SPECIFICATION SECTION 041000, 073000 AND 079200.
14. NEW CONCRETE WASH WITH NEW COMPRESSIBLE EXPANSION JOINT SEAL AT MID CONCOURSE COLUMNS. REFER TO DETAIL 7901.
15. WHERE DIRECTED BY ENGINEER, PERFORM SUPPLEMENTAL CONCRETE AND/OR SEALANT REPAIRS. REFER TO DETAILS 3 AND 6901 AND DETAILS 1 AND 2902.
16. EXTEND NEW EXPANSION JOINT SYSTEM INSTALLATION ONTO RAISED CURB. REFER TO DETAIL 7903.
17. ADD ALTERNATE NO. 1 WORK FOR ALL NOTE 15 WORK NOT ADJACENT TO EXPANSION JOINTS.



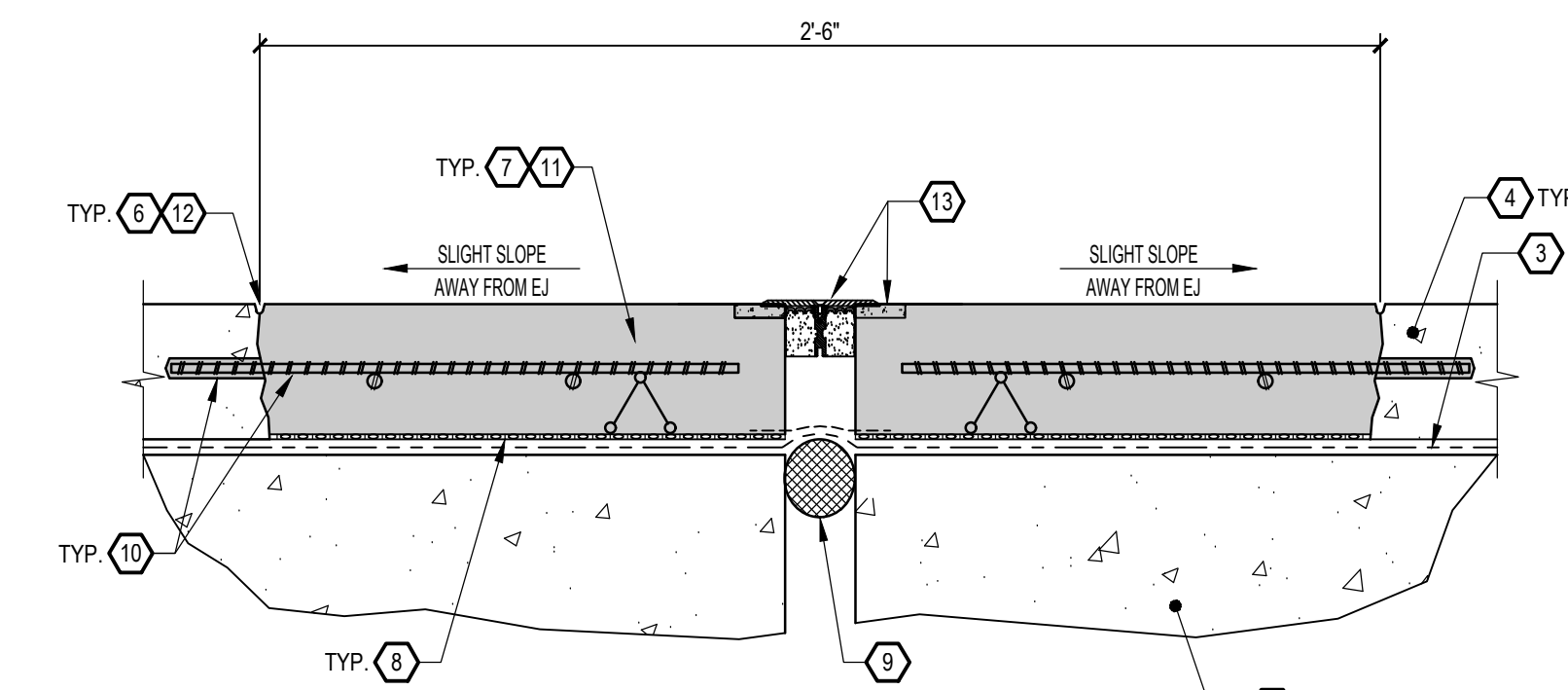
KEY PLAN
 NOT TO SCALE



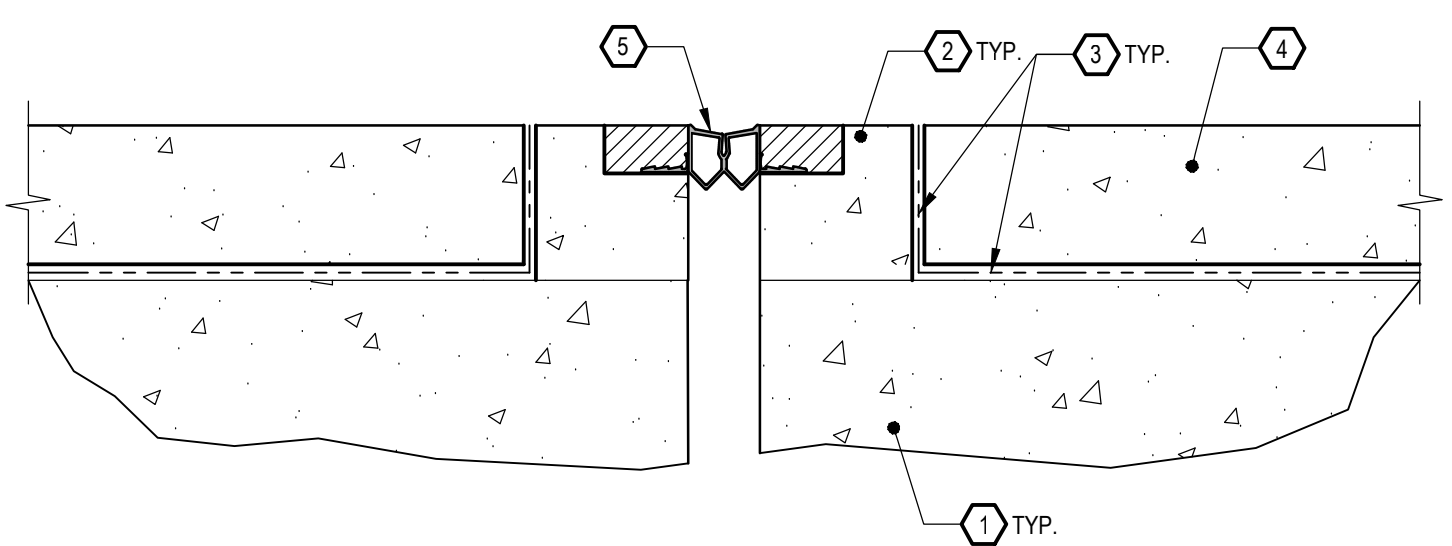
ISSUES	11/15/2018	2024 E. PROJECT - OWNER REVIEW
	2	11/22/2018 FOR BIDDING
REVISIONS		
DRAWN BY:	P.A. Bellman	
ENGINEER:	K.R. Dugan	
CHECKED BY:	C.W. Przywara	
DRAWING TITLE	M&T Bank Stadium Expansion Joint Replacement	
	MSA Project No. 20-033	
JOB NUMBER	DATE	
18556 00	NOVEMBER 2019	
DRAWING NUMBER		



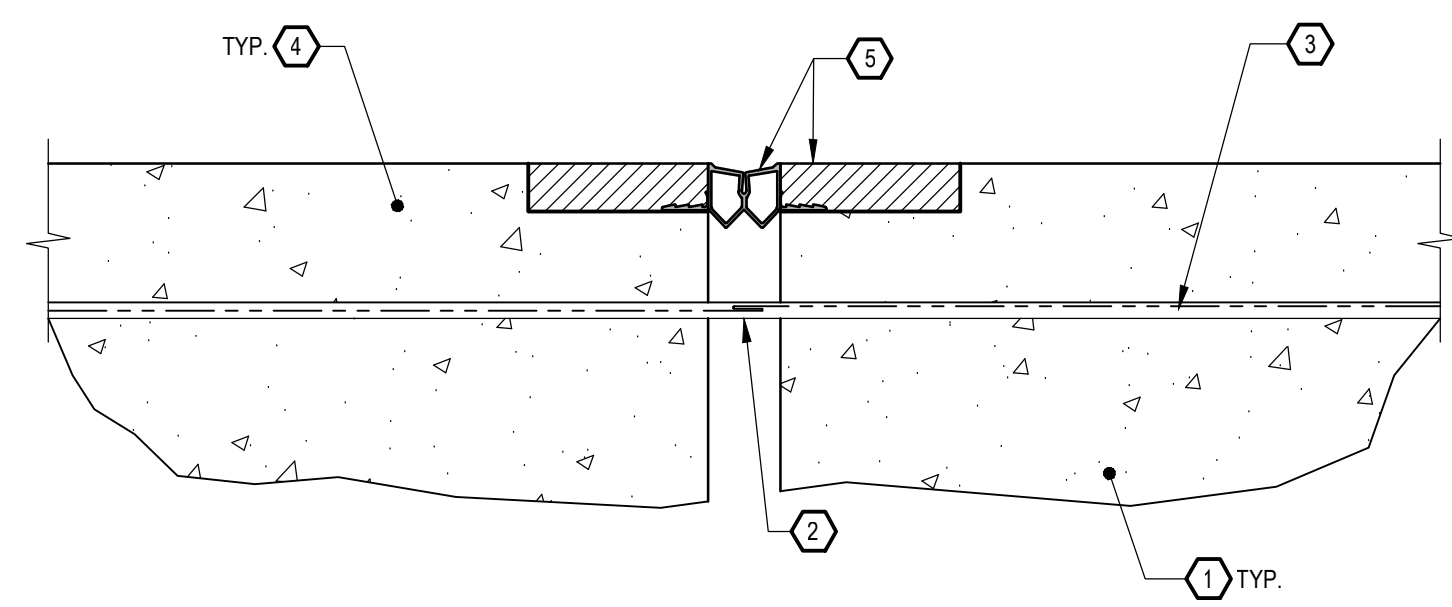
- 1 1/2" DEEP SAWCUT PARALLEL TO EXPANSION JOINT.
- 2 REMOVE EXISTING TOPPING SLAB, POUR STRIP CURB AND SURFACE EXPANSION JOINT SYSTEM AND DISCARD. CONFIRM AMOUNT OF POUR STRIP REMOVAL ABOVE AND BELOW EXPANSION JOINT WITH ENGINEER IN ADVANCE.
- 3 DRILL AND EPOXY SET 3/8" DIAMETER STAINLESS STEEL ALL THREAD RODS AT 1'-0" CENTERS 3" DEEP INTO STRUCTURAL SLAB. WIRE A CONTINUOUS 4# EPOXY COATED REBAR TO ALL THREAD WITH 1" COVER TO SURFACE. REFER TO SPECIFICATION SECTION 030100.
- 4 FORM AND CAST NEW POUR STRIP CURB. REFER TO SPECIFICATION SECTION 030100.
- 5 REPLACE EXISTING SUBSURFACE WATERPROOFING SYSTEM. INSTALL NEW WATERPROOFING SYSTEM TURN UP WITH COVE AT HORIZONTAL TO VERTICAL TRANSITION AFTER NEW POUR STRIP IS FULLY CURED. REFER TO DETAIL 4 ON DRAWING 901.
- 6 DRILL 4" DEEP HOLES IN TOPPING SLAB AT 1'-0" CENTERS AT EACH SIDE OF EXCAVATION. CLEAN OUT HOLE AND SET 2" LONG 4# REBAR IN HOLE WITH EPOXY. WIRE TWO (2) TRANSVERSE 4# REBAR TO UNDERSIDE OF DOWELS. REFER TO SPECIFICATION SECTION 030100.
- 7 PREPARE SURFACES AND PROVIDE REPLACEMENT CONCRETE. REFER TO SPECIFICATION SECTION 030100. SLOPE CONCRETE SLIGHTLY AWAY FROM EXPANSION JOINT OPENING. TOOL TRANSVERSE JOINTS AT 4'-0" CENTERS. IN ALIGNMENT ON BOTH SIDES OF EXPANSION JOINT. PROVIDE OPENING FOR NEW EXPANSION JOINT SYSTEM.
- 8 TOOL JOINT AT PERIMETER OF CONCRETE. AFTER ADEQUATE CURE OF NEW CONCRETE, PREPARE SURFACES AND PROVIDE NEW SEALANT. REFER TO DETAIL 5, DRAWING 902.
- 9 AFTER ADEQUATE CURE, REMOVE JOINT FORMING MATERIAL, PREPARE AND INSTALL NEW COMPRESSIBLE EXPANSION JOINT SYSTEM. REFER TO DETAIL 2, DRAWING 903.



- 1 1/2" DEEP SAWCUT PARALLEL TO EXPANSION JOINT.
- 2 REMOVE EXISTING TOPPING SLAB CONCRETE AND SURFACE EXPANSION JOINT SYSTEM AND DISCARD.
- 3 EXPOSE EXISTING SUBSURFACE WATERPROOFING SYSTEM FOR OWNER INSPECTION. REPAIR AS DIRECTED ON T&M BASIS. LEAVE 6" BONDED AND INTACT EXISTING MEMBRANE WITHIN EXCAVATION TO LAP NEW MEMBRANE.
- 4 IF DIRECTED, INSTALL OVERSIZED BACKER ROD, THEN INSTALL UNCURED NEOPRENE SHEET FLASHING SYSTEM EMBEDDED IN NEW WATERPROOFING SYSTEM PER MANUFACTURERS RECOMMENDATIONS ON T&M BASIS. DISCONTINUE DRAINAGE BOARD AT BOTH SIDES OF EXPANSION JOINT. BUT INSTALL AND SPOT ADHERE A 12" WIDE STRIP OF FILTER FABRIC ACROSS EXPANSION JOINT. REFER TO SPECIFICATION SECTION 071400.
- 5 DRILL 4" DEEP HOLES IN TOPPING SLAB AT 24" CENTERS AT EACH SIDE OF EXCAVATION. CLEAN OUT HOLE AND SET 2" LONG 4# REBAR IN HOLE WITH EPOXY. WIRE TWO (2) TRANSVERSE 4# REBAR TO UNDERSIDE OF DOWELS. REFER TO SPECIFICATION SECTION 030100.
- 6 PREPARE SURFACES AND PROVIDE REPLACEMENT CONCRETE. REFER TO SPECIFICATION SECTION 030100. SLOPE CONCRETE SLIGHTLY AWAY FROM EXPANSION JOINT OPENING. TOOL TRANSVERSE JOINTS AT 4'-0" CENTERS. IN ALIGNMENT ON BOTH SIDES OF EXPANSION JOINT. PROVIDE BLOCKOUT FOR NEW EXPANSION JOINT SYSTEM.
- 7 TOOL JOINT AT PERIMETER OF CONCRETE. AFTER ADEQUATE CURE OF NEW CONCRETE, PREPARE SURFACES AND PROVIDE NEW SEALANT. REFER TO DETAIL 5, DRAWING 902.
- 8 AFTER ADEQUATE CURE, REMOVE BLOCKOUT FORMING MATERIAL, PREPARE BLOCKOUT AND INSTALL NEW SEAL/COVER PLATE EXPANSION JOINT SYSTEM. REFER TO DETAIL 1, DRAWING 903.



- 1 EXISTING STRUCTURAL SLAB.
- 2 EXISTING POUR STRIP CURB ALONG EXPANSION JOINT.
- 3 EXISTING SUBSURFACE WATERPROOFING SYSTEM.
- 4 EXISTING 3" TO 4" CONCRETE TOPPING SLAB.
- 5 EXISTING SURFACE WINGED SEAL EXPANSION JOINT SYSTEM.



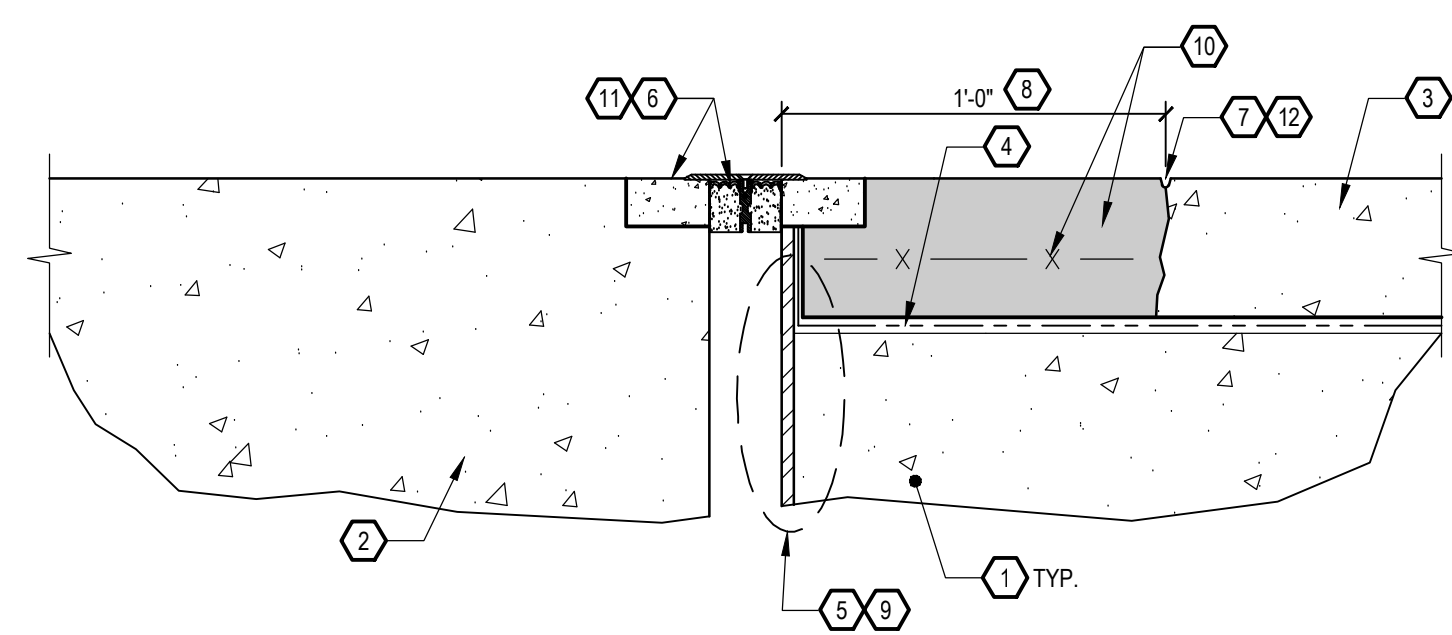
- 1 EXISTING STRUCTURAL SLAB.
- 2 ILL-DEFINED SUBSURFACE WATERPROOFING SYSTEM OVER EXPANSION JOINT.
- 3 EXISTING SUBSURFACE WATERPROOFING SYSTEM.
- 4 EXISTING 3" TO 4" CONCRETE TOPPING SLAB.
- 5 EXISTING SURFACE WINGED SEAL EXPANSION JOINT SYSTEM.

1A
 901
 EXISTING POSSIBLE CONCOURSE EXPANSION JOINT CONDITIONS
 DETAIL
 NO SCALE

1B
 901
 EXISTING POSSIBLE CONCOURSE EXPANSION JOINT CONDITIONS
 DETAIL
 NO SCALE

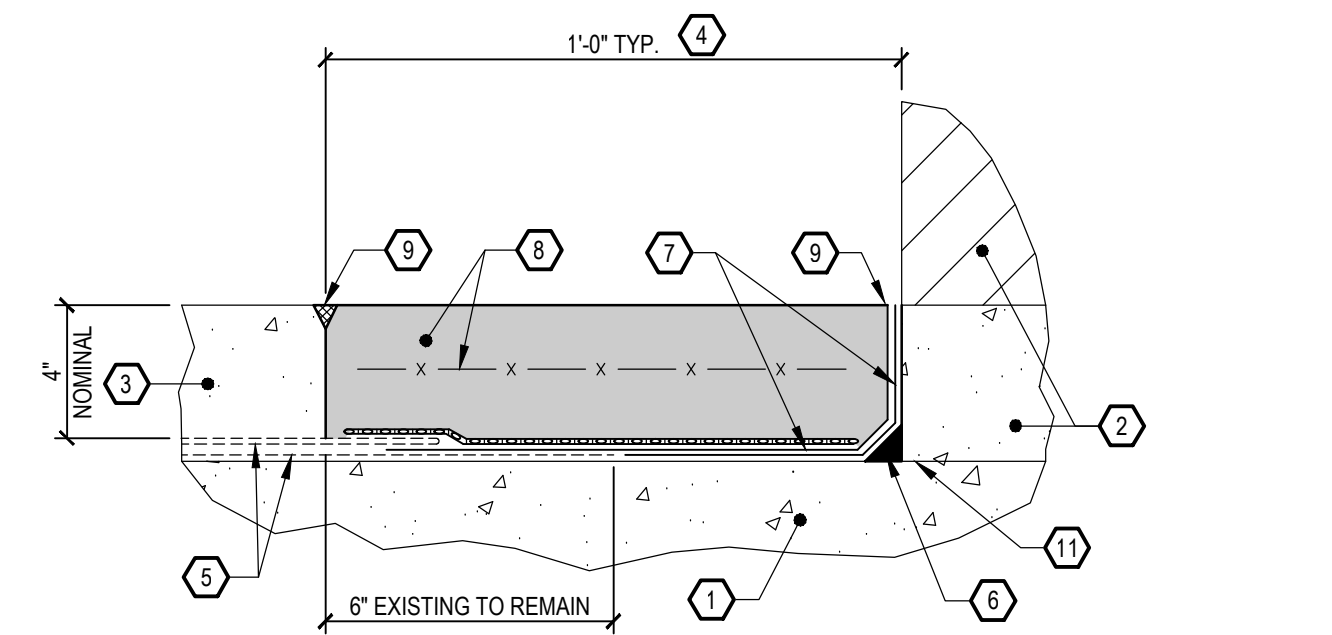
1C
 901
 CONCOURSE POUR STRIP CURB AND TOPPING SLAB REPAIR AT EXPANSION JOINT
 DETAIL
 NO SCALE

1D
 901
 CONCOURSE TOPPING REPAIR AT EXPANSION JOINT
 DETAIL
 NO SCALE



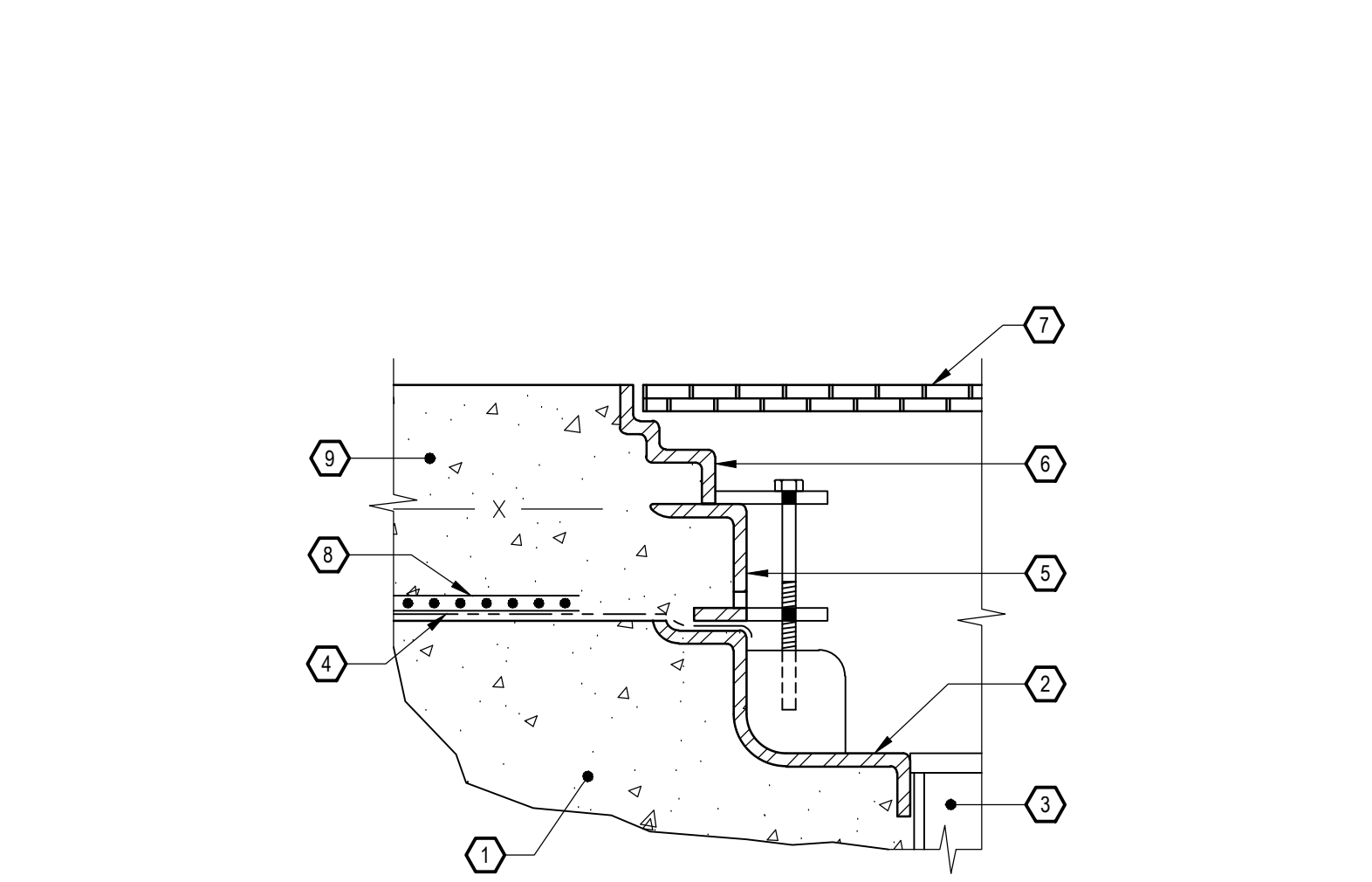
- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING CONCRETE SLAB ON METAL DECK.
- 3 EXISTING 3" TO 4" TOPPING SLAB.
- 4 EXISTING SUBSURFACE WATERPROOFING SYSTEM.
- 5 ILL-DEFINED TERMINATION DETAIL TO BE VERIFIED.
- 6 EXISTING SURFACE WINGED SEAL EXPANSION JOINT SYSTEM TO BE REMOVED.
- 7 1/2" DEEP SAWCUT PARALLEL TO EXPANSION JOINT.
- 8 REMOVE AND DISCARD TOPPING SLAB.
- 9 EXPOSE DETAIL FOR ENGINEER REVIEW. PERFORM ANY DIRECTED SUBSURFACE WATERPROOFING SYSTEM REPAIRS ON T&M BASIS. REFER TO SPECIFICATION SECTION 071400.
- 10 PROVIDE MESH REINFORCING AND NEW CONCRETE PATCH MATERIAL TYPE A OR C. REFER TO SPECIFICATION SECTION 030100.
- 11 AFTER ADEQUATE CURE OF NEW CONCRETE PATCH MATERIAL, NEW EXPANSION JOINT COVER SYSTEM. REFER TO DETAIL 1983.
- 12 AFTER ADEQUATE CURE OF NEW CONCRETE PATCH MATERIAL, PREPARE AND PROVIDE SEALANT. REFER TO DETAIL 5, DRAWING 902.

2
 901
 UPPER SUITE LEVEL CONCOURSE SUBSURFACE WATERPROOFING SYSTEM EXCAVATION
 DETAIL
 NO SCALE



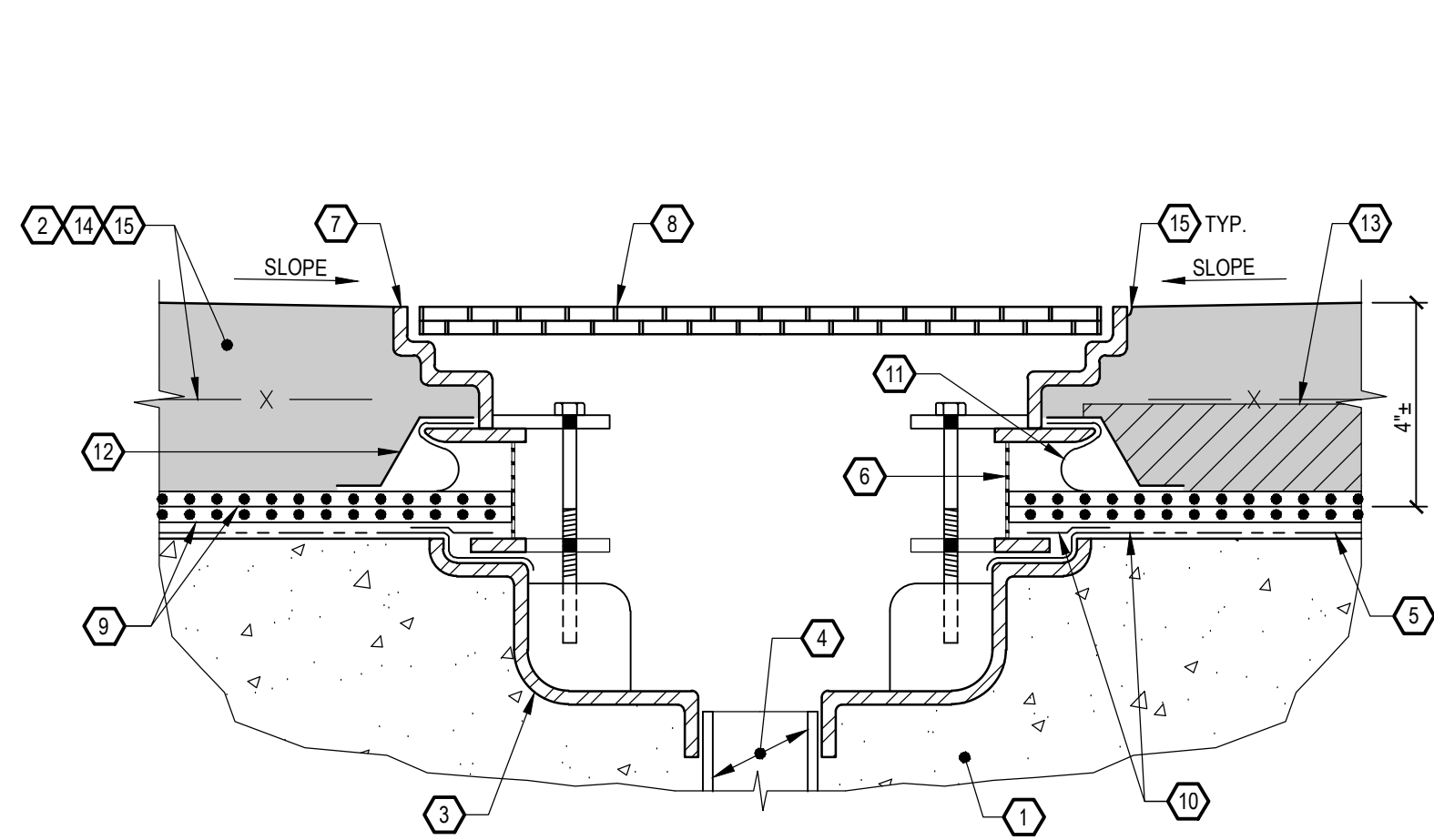
- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING POUR STRIP CURB OR CMU WALL TO REMAIN.
- 3 EXISTING CONCRETE TOPPING SLAB OVER SUBSURFACE WATERPROOFING MEMBRANE TO REMAIN. DO NOT DAMAGE.
- 4 SAWCUT PARALLEL TO RAISED CURB AND CHIP/REMOVE TOPPING SLAB FOR LENGTH TO EXPOSE SUBSURFACE WATERPROOFING SYSTEM FOR REVIEWS.
- 5 EXISTING SUBSURFACE WATERPROOFING SYSTEM TO REMAIN. LEAVE MINIMUM 6" BONDED AND INTACT EXISTING MEMBRANE WITHIN EXCAVATION TO LAP NEW MEMBRANE. LEAVE 3" MINIMUM EXISTING PROTECTION BOARD.
- 6 PREPARE CONCRETE SURFACES AND PROVIDE NEW COVE AT HORIZONTAL-TO-VERTICAL TRANSITION. REFER TO SPECIFICATION SECTION 071400.
- 7 PREPARE CONCRETE SURFACES. SLOW CLEAN AND INSTALL NEW WATERPROOFING SYSTEM. LAP ONTO PREPARED EXISTING MEMBRANE AT MINIMUM 5". INSTALL NEW DRAINAGE MAT OVER EXISTING PROTECTION BOARD, MINIMUM 3". REFER TO SPECIFICATION SECTION 071400.
- 8 PROVIDE MESH REINFORCING AND NEW CONCRETE PATCH MATERIAL TYPE A OR C. REFER TO SPECIFICATIONS SECTION 030100.
- 9 AFTER ADEQUATE CURE OF NEW CONCRETE PATCH MATERIALS, PREPARE AND PROVIDE NEW SEALANT. REFER TO DETAILS 4 OR 5, DRAWING 902.

3
 901
 SUPPLEMENTAL CONCRETE AND SUBSURFACE MEMBRANE REPAIRS
 DETAIL
 NO SCALE



- 1 EXISTING STRUCTURAL SLAB.
- 2 EXISTING DRAIN BODY CAST INTO STRUCTURAL SLAB.
- 3 EXISTING DRAIN PIPE.
- 4 EXISTING SUBSURFACE WATERPROOFING MEMBRANE. MEMBRANE TERMINATES ON DRAIN BODY.
- 5 EXISTING DRAIN CLAMPING RING.
- 6 EXISTING DRAIN GRATE CLAMPING RING.
- 7 EXISTING DRAIN GRATE.
- 8 EXISTING DRAINAGE MAT TYPICALLY TERMINATED PRIOR TO DRAIN ASSEMBLY.
- 9 CONCRETE TOPPING SLAB WITH WELDED WIRE MESH REINFORCING CAST TIGHT TO DRAIN ASSEMBLY.

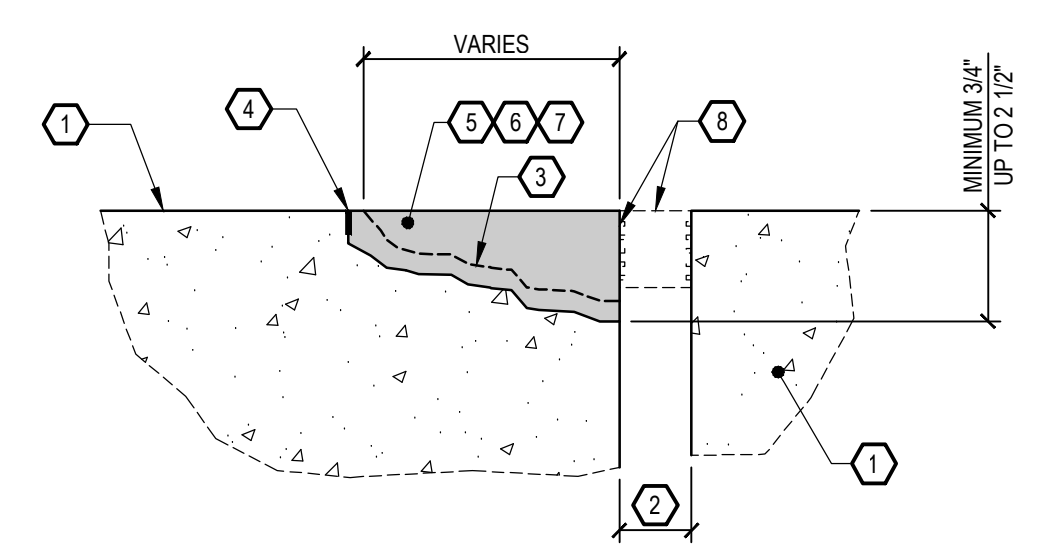
4
 901
 EXISTING POSSIBLE DRAIN CONDITION
 DETAIL
 NO SCALE



- 1 EXISTING STRUCTURAL SLAB.
- 2 EXISTING TOPPING SLAB AND REINFORCING TO BE REMOVED IN 4'-0" x 4'-0" SQUARE CENTERED ON DRAIN. ORIENT SIDES OF SAWCUT PARALLEL TO EXISTING BUILDING FEATURES. REINFORCING SHALL BE CUT-OUT, SALVAGED, AND REINSTALLED PRIOR TO PLACING NEW CONCRETE PATCH MATERIAL.
- 3 EXISTING DRAIN BODY CAST INTO STRUCTURAL SLAB.
- 4 EXISTING DRAIN PIPE. INSTALL PLUMBER'S PLUG DURING WORK ONLY AT OCCUPIED WORK AREAS. REMOVE PLUG EACH EVENING PRIOR TO LEAVING SITE.
- 5 EXISTING SUBSURFACE WATERPROOFING MEMBRANE. MEMBRANE TERMINATES ON DRAIN BODY. DO NOT DAMAGE.
- 6 EXISTING DRAIN RING WITH PERFORATED METAL SCREEN.
- 7 EXISTING DRAIN GRATE CLAMPING RING. REMOVE RING ONLY IF NEEDED TO FACILITATE REPAIRS, STORE AND REINSTALL AT COMPLETION OF WORK. REPLACE BOLTS WITH LONGER GALVANIZED BOLTS AS NECESSARY.
- 8 EXISTING DRAIN GRATE. REMOVE GRATE, STORE AND REINSTALL AT COMPLETION OF WORK.
- 9 NEATLY CUT-BACK EXISTING DRAINAGE MAT TO ACCOMMODATE FLASHING DETAIL PER NOTE 10. PROVIDE NEW DRAINAGE MAT INSTALLED TIGHT TO PERFORATED METAL SCREEN. PROVIDE SECOND LAYER OF DRAINAGE MAT TIGHT TO PERFORATED SCREEN AND EXTEND 12" MINIMUM BEYOND EDGES OF PERFORATED SCREEN.
- 10 CAREFULLY CLEAN EXISTING MEMBRANE AND INSTALL NEW MEMBRANE SYSTEM AT INTERFACE OF LOWER BOWL AND EXISTING MEMBRANE SYSTEM. TOUCH-UP ANY OTHER AREAS WHERE EXISTING MEMBRANE WAS DAMAGED DURING DEMOLITION USING SAME MATERIAL.
- 11 PROVIDE NEW WOVEN FILTER FABRIC FROM NEW DRAINAGE MAT EXTENDING UP AND OVER EXPOSED PORTIONS OF PERFORATED SCREEN AND FASTEN TO UPPER CASTING OF DRAIN BODY.
- 12 PROVIDE BOND-BREAKER TAPE OR OTHER MATERIAL TO ACT AS POUR STOP OF NEW CONCRETE PLACEMENT AND TO PREVENT CONCRETE FROM CONTACTING PERFORATED METAL SCREEN WHEN CASTING NEW TOPPING SLAB.
- 13 WHERE APPROPRIATE, INSTALL NEW 2" THICK RIGID INSULATION TO MATCH EXISTING.
- 14 PROVIDE MESH REINFORCING AND NEW CONCRETE PATCH MATERIAL, TYPE A OR TYPE C. CAST TIGHT TO DRAIN ASSEMBLY. REFER TO SPECIFICATION SECTION 030100.
- 15 TOOL NEW JOINTS IN CONCRETE AT DRAIN CASTING PERIMETER AND PERIMETER OF EXCAVATION REPAIR. AFTER ADEQUATE CURING, PREPARE JOINTS, PRIME, AND INSTALL NEW SEALANT SIMILAR TO DETAIL 5 ON DRAWING 902.

5
 901
 CONCOURSE DRAIN REPAIR
 DETAIL
 NO SCALE

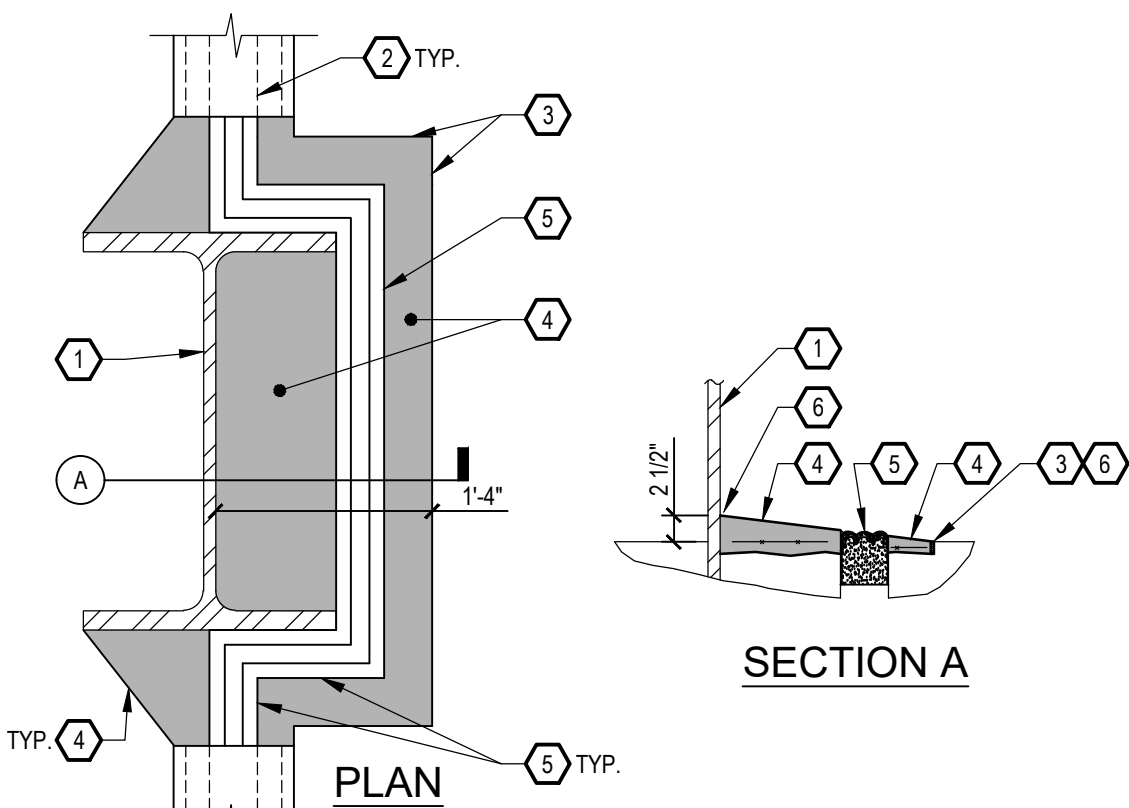
PAY UNIT PER LIN. FT. OF CONCRETE REPAIRS (SEALANTS INCIDENTAL)
 SUBSURFACE WATERPROOFING SYSTEM REPAIRS T&M



- 1 EXISTING CONCRETE TOPPING SLAB FLOOR.
- 2 POTENTIAL EXISTING JOINT OPENING OR CONSTRUCTION JOINT.
- 3 EXISTING DELAMINATION PLANE.
- 4 GRIND OR SAWCUT 3/4" VERTICAL EDGE AT PERIMETER OF DETERIORATED CONCRETE.
- 5 REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SAWCUT AREA. REFER TO SPECIFICATION SECTION 030100.
- 6 PREPARE CAVITY SURFACES AND BLOWOUT WITH OIL AND WATER FREE COMPRESSED AIR JUST PRIOR TO REPAIR MATERIAL INSTALLATION. REFER TO SPECIFICATION SECTION 030100.
- 7 PROVIDE CONCRETE REPAIR MATERIAL. REFER TO SPECIFICATION SECTION 030100.
- 8 WHERE REPAIR EXISTS AT EXPANSION JOINT OPENING, AFTER ADEQUATE CURE OF REPAIR MATERIAL, PREPARE VERTICAL SURFACE FOR NEW JOINT SEAL INSTALLATION. REFER TO DETAILS ON DRAWING 903.

6
 901
 CONCRETE JOINT EDGE REPAIR
 DETAIL
 NO SCALE

PAY UNIT PER LIN. FT.



- 1 EXISTING STRUCTURAL STEEL COLUMN. PREPARE EXPOSED SURFACES IN NEW CONCRETE REPAIR AREAS AND APPLY TWO COATS OF EPOXY TO 1 INCH ABOVE NEW FINISHED CONCRETE ELEVATIONS. REFER TO SPECIFICATION SECTION 030100.
- 2 NEW SEAL/COVER PLATE EXPANSION JOINT SYSTEM. REFER TO DETAIL 1903.
- 3 GRIND OR SAW-CUT 3/4" VERTICAL EDGE AT PERIMETER.
- 4 CHIP OR BUSHHAMMER 3/4" OF EXISTING CONCRETE. PREPARE SURFACES AND INSTALL NEW BONDED TAPERED CONCRETE OVERLAY WITH EPOXY COATED OR GALVANIZED STEEL 2X2 MESH REINFORCEMENT. REFER TO SPECIFICATION SECTION 030100. PROVIDE BLOCK-OUT FOR JOINT OPENING.
- 5 AFTER ADEQUATE CONCRETE CURE, PREPARE JOINT OPENING SURFACES AND INSTALL NEW COMPRESSIBLE SEAL EXPANSION JOINT. REFER TO DETAIL 2903.
- 6 AFTER ADEQUATE CONCRETE CURE, PREPARE SURFACES AND INSTALL NEW OVERSIZED SILICONE COVE OR CONTROL JOINT SEALANTS. REFER TO DETAILS 4 AND 5902.

7
 901
 NEW WASH AT EXPOSED MID CONCOURSE COLUMNS
 DETAIL
 NO SCALE

ISSUES	NO.	DATE	DESCRIPTION
	1	11/15/2019	DESIGN CHECK - OWNER REVIEW
	2	11/22/2019	FOR BIDDING

REVISIONS	NO.	DATE	DESCRIPTION
	1		
	2		

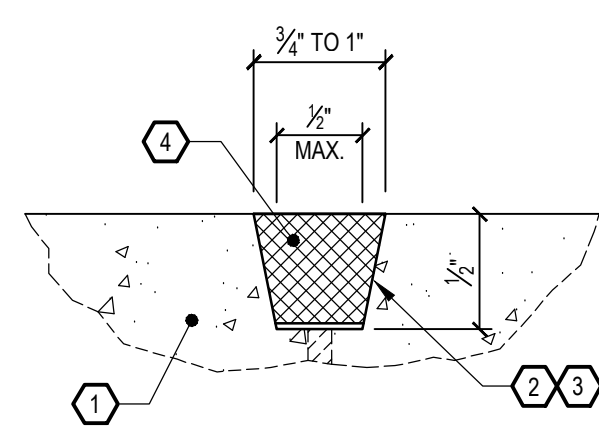
DRAWN BY: P.A. Bellman
 ENGINEER: K.R. Dugan
 CHECKED BY: C.W. Przywara

M&T Bank Stadium
 Expansion Joint
 Replacement

MSA
 Project No. 20-033

DRAWING TITLE: CONCRETE AND SUBSURFACE MEMBRANE REPAIR DETAILS
 JOB NUMBER: 18556.00
 DATE: NOVEMBER 2019
 DRAWING NUMBER:

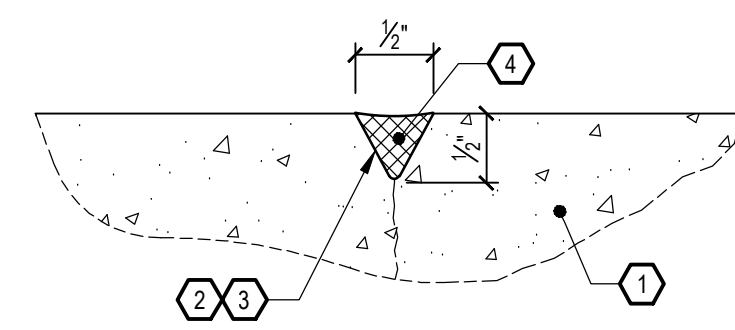
This document is the product and property of THP Limited. Neither the document nor the information it contains may be copied or reused for other than the specific project for which it was prepared without the written consent of THP Limited.



- 1 EXISTING CONCRETE TOPPING SLAB.
- 2 CUT OUT ALL EXISTING JOINT SEALANTS IF PRESENT, THEN GRIND SURFACES TO REMOVE SEALANT RESIDUE AND SLOPE SIDE SURFACES AS SHOWN. PROVIDE A MINIMUM WIDTH TO DEPTH RATIO OF 1-1/2.
- 3 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.
- 4 PRIME SUBSTRATE AND PROVIDE NEW SEALANT. INSTALL SEALANT CONCAVE WITH ADJOINING SURFACE. REFER TO SPECIFICATION SECTION 079200.

1
 902
 TYPICAL CONSTRUCTION JOINT
DETAIL
 NO SCALE

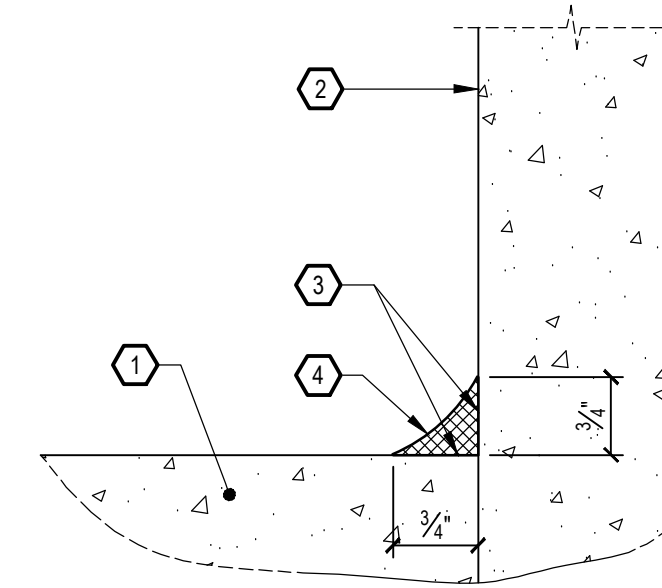
PAY UNIT PER LIN. FT.
 WHEN NIC WITH CONCRETE REPAIRS



- 1 EXISTING CONCRETE TOPPING SLAB.
- 2 ROUT CRACKS PER SPECIFICATION SECTION 079200 IN A "V" CONFIGURATION, MINIMUM OF 1/2" WIDE x 1/2" DEEP. OR WHEN THE 1/2" DIMENSION IS INSUFFICIENT, USE A MINIMUM WIDTH TO DEPTH RATIO OF 1.
- 3 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.
- 4 PRIME SUBSTRATE AND PROVIDE NEW SEALANT. INSTALL SEALANT CONCAVE WITH ADJOINING SURFACE. REFER TO SPECIFICATION SECTION 079200.

2
 902
 TYPICAL RANDOM CRACK
DETAIL
 NO SCALE

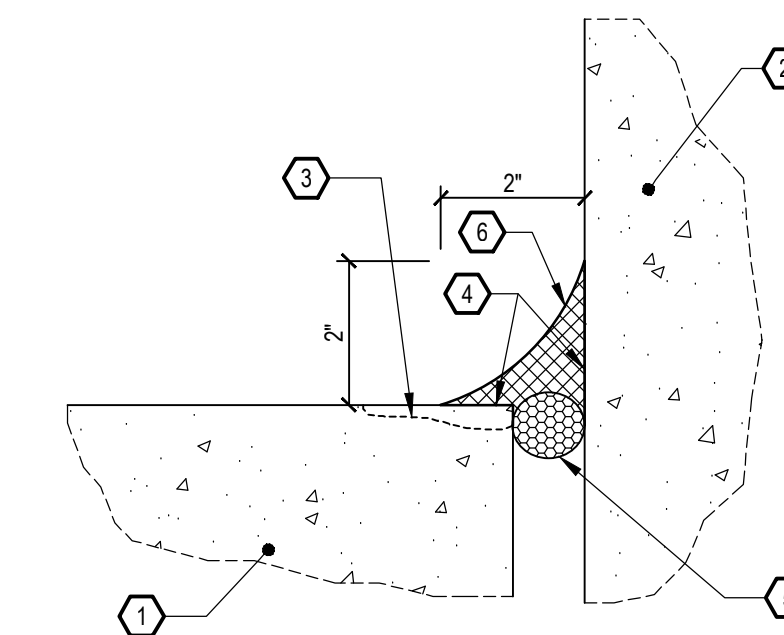
PAY UNIT PER LIN. FT.



- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING WALL, CURB OR ANY OTHER VERTICAL PROJECTION.
- 3 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. INSTALL SEALANT CONCAVE WITH ADJOINING SURFACE. REFER TO SPECIFICATION SECTION 079200.
- 4 COVE SEALANT. PROVIDE MINIMUM 1/2" THROAT. INSTALL PER DIMENSIONS UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 079200.
- 5 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.

3
 902
 TYPICAL COVE SEALANT
DETAIL
 NO SCALE

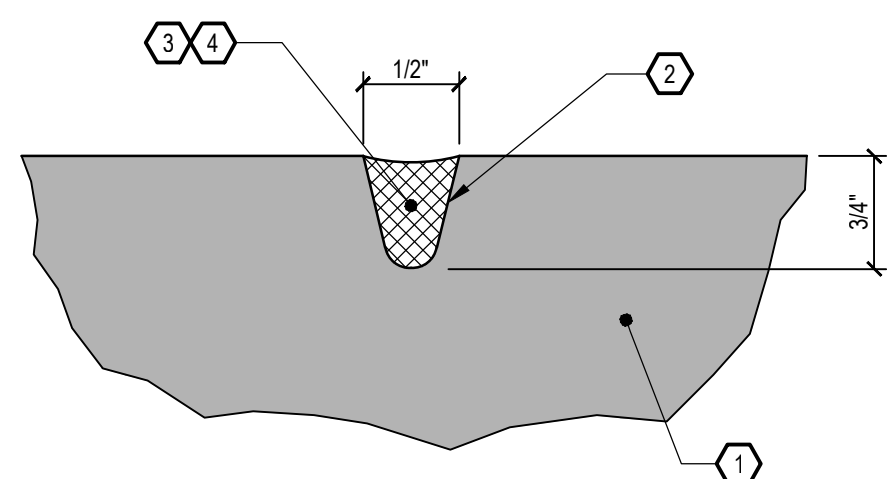
PAY UNIT PER LIN. FT.



- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING WALL.
- 3 CONCRETE REPAIRS IF NECESSARY. REFER TO DETAIL 2 ON DRAWING 3.0.
- 4 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. INSTALL SEALANT CONCAVE WITH ADJOINING SURFACE. REFER TO SPECIFICATION SECTION 079200.
- 5 OVERSIZED COVE SEALANT ROD.
- 6 OVERSIZED COVE SEALANT. INSTALL PER DIMENSIONS UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION SECTION 079200.

4
 902
 OVERSIZE PERIMETER WALL COVE
DETAIL
 NO SCALE

PAY UNIT PER LIN. FT.



- 1 NEW CONCRETE REPAIR AREA.
- 2 NEW CONTROL JOINT TOOLED IN NEWLY PLACED CONCRETE. REFER TO SPECIFICATION SECTION 030100.
- 3 TO REMOVE DUST, LIGHTLY GRIND SIDE FACES OF JOINT AND BLOW OUT GROOVE WITH COMPRESSED AIR IMMEDIATELY PRIOR TO PRIMER INSTALLATION.
- 4 PRIME SUBSTRATE AND PROVIDE NEW SEALANT INSTALLED FLUSH WITH ADJOINING SURFACES BENEATH MEMBRANE, AND CONCAVE ELSEWHERE. REFER TO SPECIFICATION SECTION 079200.

5
 902
 TOOLED JOINT
DETAIL
 NO SCALE

PAY UNIT PER LIN. FT.

ISSUES	NO.	DATE	DESCRIPTION	STATUS
1	11/16/2019	11/16/2019	FOR BIDDING	
2	11/22/2019			

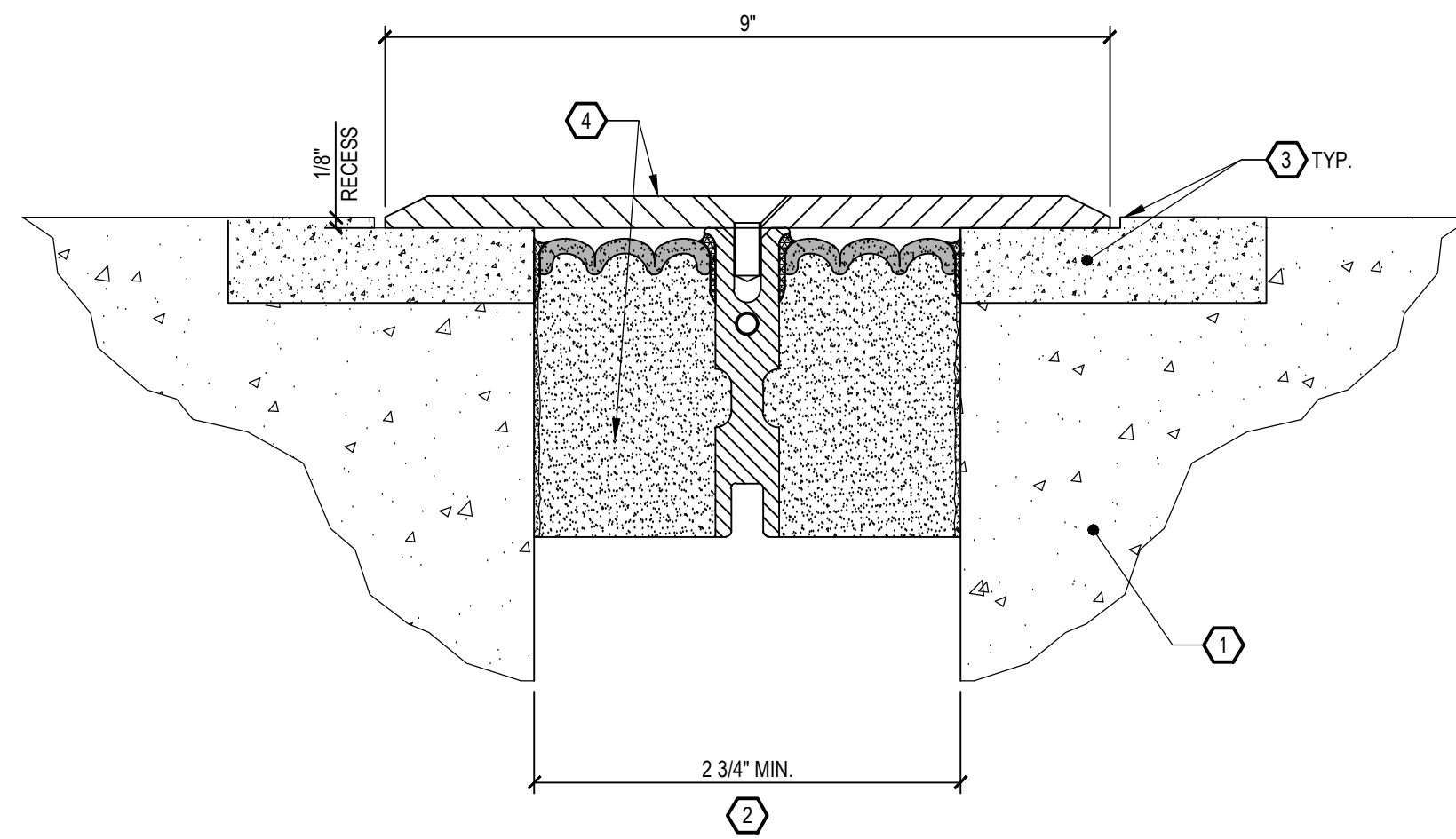
REVISIONS	NO.	DATE	DESCRIPTION

DRAWN BY:	P.A. Bellman
ENGINEER:	K.R. Dugan
CHECKED BY:	C.W. Przywara

M&T Bank Stadium
 Expansion Joint
 Replacement

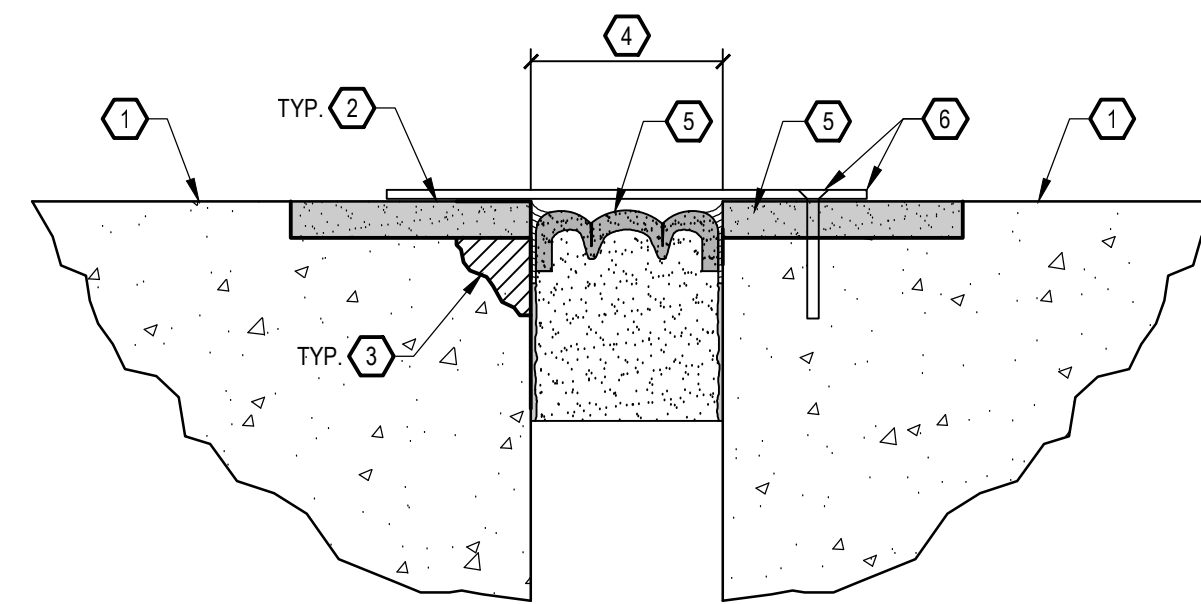
MSA
 Project No. 20-033

DRAWING TITLE	SEALANT DETAILS
JOB NUMBER	18556.00
DATE	NOVEMBER 2019
DRAWING NUMBER	902



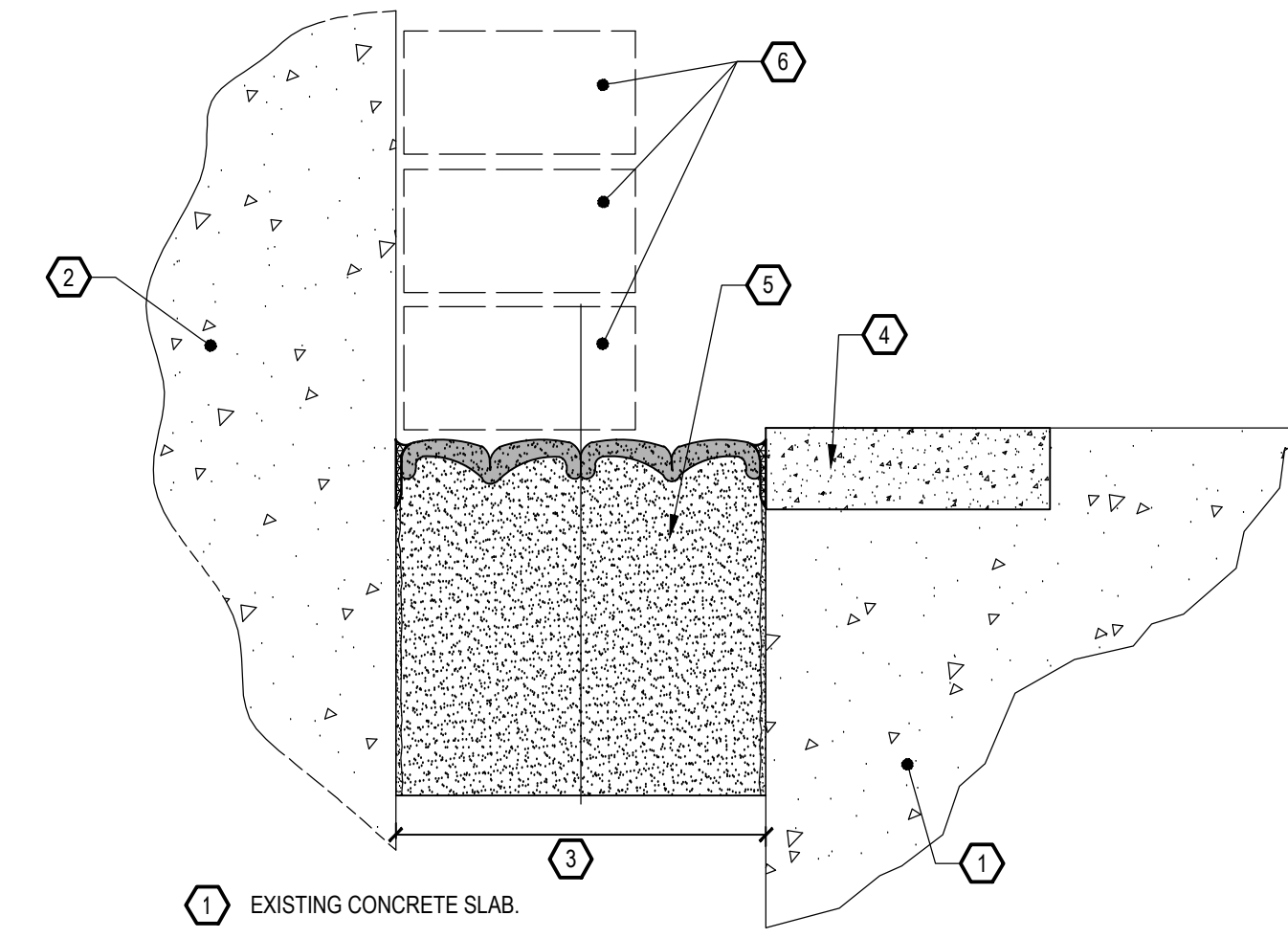
- 1 EXISTING CONCRETE SLAB OR BONDED POUR STRIP CURB.
- 2 EXISTING JOINT OPENING. FIELD VERIFY TO ACCOMMODATE NEW JOINT SYSTEM. WHERE NECESSARY, SAWCUT ENLARGE OPENING TO ACCOMMODATE JOINT SEAL SYSTEM. REFER TO SPECIFICATION SECTION 079000.
- 3 PREPARE BLOCK OUT AND INSTALL NEW NOSING MATERIAL WITH 1/8" RECESS TO PROVIDE EVEN BEARING OF NEW COVER PLATE SYSTEM. REFER TO SPECIFICATION SECTION 079000.
- 4 PROVIDE NEW COMPRESSIBLE EXPANSION JOINT SYSTEM WITH INTEGRAL COVER PLATE. REFER TO SPECIFICATION SECTION 079000.

1
 903
 NEW SEAL/COVERPLATE EXPANSION JOINT
DETAIL
 NO SCALE



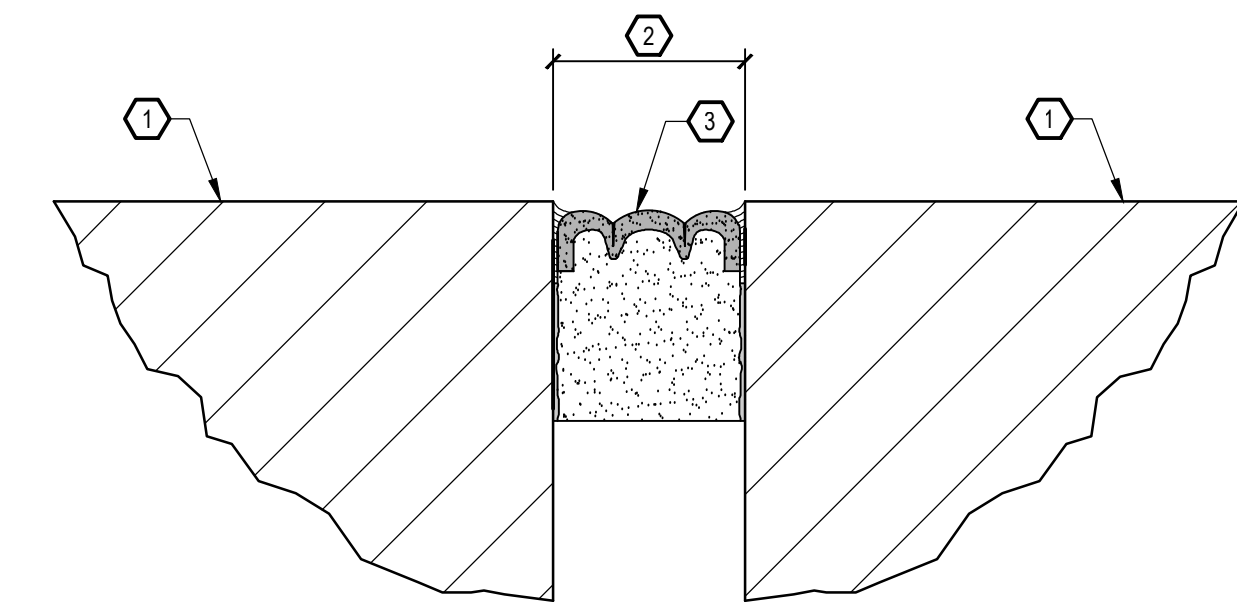
- 1 EXISTING CONCRETE SLAB OR BONDED POUR STRIP.
- 2 IF IT EXISTS, REMOVE AND REPLACE EXISTING NOSING MATERIAL. CONFIRM SCOPE OF WORK PRIOR TO BIDDING. REFER TO SPECIFICATION SECTION 079000.
- 3 POSSIBLE JOINT EDGE REPAIRS. REPAIR PER MANUFACTURER'S RECOMMENDATIONS PER SPECIFICATION SECTION 079000.
- 4 EXISTING JOINT OPENING. FIELD VERIFY TO ACCOMMODATE NEW JOINT SYSTEM. WHERE NECESSARY, SAWCUT ENLARGE OPENING TO ACCOMMODATE JOINT SEAL SYSTEM. REFER TO SPECIFICATION SECTION 079000.
- 5 NEW COMPRESSIBLE EXPANSION JOINT SEAL SYSTEM WITH SIDE WALL ADHESIVE SEAL. REFER TO SPECIFICATION SECTION 079000.
- 6 AT DOORWAYS IN CLUB AND LOWER SUITE LEVEL, PROVIDE NEW 1/4"x12" STAINLESS STEEL COVER PLATE WITH TEXTURED TOP SURFACE. DRILL AND EPOXY SET COUNTERSUNK STAINLESS STEEL FASTENERS AT 1'-0" CENTERS.

2
 903
 NEW COMPRESSIBLE SEAL EXPANSION JOINT
DETAIL
 NO SCALE



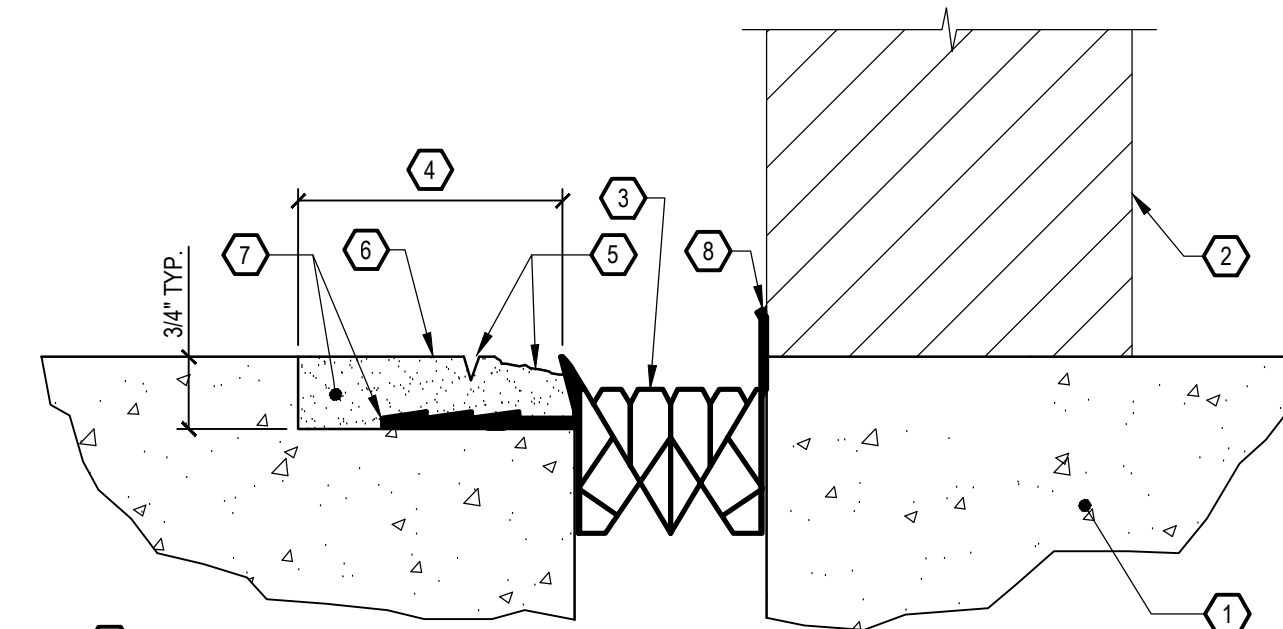
- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING CONCRETE COLUMN.
- 3 EXISTING JOINT THROAT WIDTH. CONTRACTOR TO FIELD VERIFY PRIOR TO BID AND CONSULT WITH MANUFACTURER TO ENSURE PROPER EXPANSION JOINT SIZE SELECTION.
- 4 PREPARE BLOCKOUT AND INSTALL NEW NOSING MATERIAL. REFER TO SPECIFICATION SECTION 079000.
- 5 PROVIDE NEW COMPRESSIBLE EXPANSION JOINT SYSTEM. REFER TO SPECIFICATION SECTION 079000.
- 6 EXISTING BRICK WRAP AT NEW CONCOURSE COLUMNS. TEMPORARILY REMOVE LOWER COURSES OF BRICK TO ACCOMMODATE NEW EXPANSION JOINT INSTALLATION. SUPPORTING BRICK WRAP ABOVE AS NECESSARY. SALVAGE BRICK. REINSTALL TO MATCH ORIGINAL CONDITION AFTERWARDS.

3
 903
 NEW COMPRESSIBLE SEAL EXPANSION JOINT AT COLUMN
DETAIL
 NO SCALE



- 1 EXISTING CMU WALL.
- 2 EXISTING JOINT OPENING. FIELD VERIFY TO ACCOMMODATE NEW JOINT SYSTEM. WHERE NECESSARY. REFER TO SPECIFICATION SECTION 079000.
- 3 NEW VERTICAL COMPRESSIBLE EXPANSION JOINT SEAL SYSTEM WITH SIDE WALL ADHESIVE SEAL. REFER TO SPECIFICATION SECTION 079000. PROVIDE SUPPLEMENTAL SILICONE SEAL DETAILS AT TOP AND BOTTOM OF NEW INSTALLATIONS.

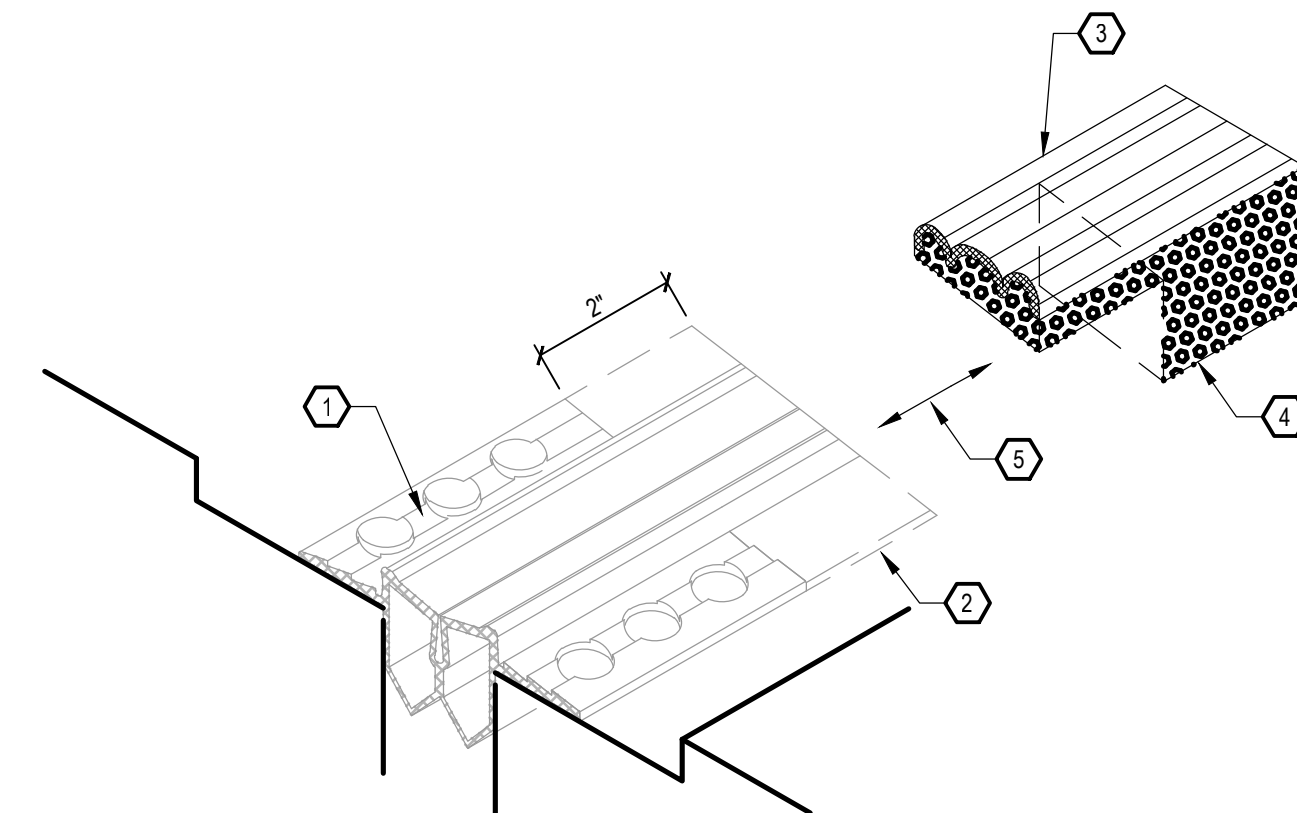
4
 903
 NEW VERTICAL COMPRESSIBLE SEAL EXPANSION JOINT
DETAIL
 NO SCALE



- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING CMU WALL.
- 3 EXISTING WINGED COMPRESSION SEAL AND NOSING.
- 4 EXISTING NOSING WIDTH. FIELD VERIFY PRIOR TO BIDDING. REMOVE FULL WIDTH OF NOSING WHEN PERFORMING REPAIRS.
- 5 POSSIBLE EXISTING LONGITUDINAL CRACK IN NOSING OR ERODED NOSING. LOCATE AND VERIFY WORK AREAS WITH OWNER PRIOR TO PERFORMING WORK. REFER TO SPECIFICATION SECTION 079000.
- 6 REMOVE DAMAGED LENGTH OF NOSING PLUS AT LEAST 4" OF SOUND NOSING ON EACH END OF REPAIR LENGTH. PERFORM WORK CAREFULLY SO NOT TO DAMAGE EMBEDDED WING OF SEAL IN BASE OF BLOCKOUT. REFER TO SPECIFICATION SECTION 079000.
- 7 CLEAN BLOCKOUT AND SEAL WING SURFACES WITH HAND HELD TOOLS AND COMPRESSED AIR, THEN REINSTALL SEAL WING IN BED OF EPOXY. REPAIR NOSING WITH MATERIALS APPROVED BY EXPANSION JOINT MANUFACTURER. REFER TO SPECIFICATION SECTION 079000.
- 8 EXPANSION JOINT UPTURNED SEAL AT CMU WALL. CONFIRM LENGTHS OF NEW SEAL NEEDS WITH ENGINEER. REMOVE ALL EXISTING SEALANT. PREPARE SURFACES AND INSTALL NEW SILICONE SEALANT. REFER TO SPECIFICATION SECTION 079000 AND 079200.

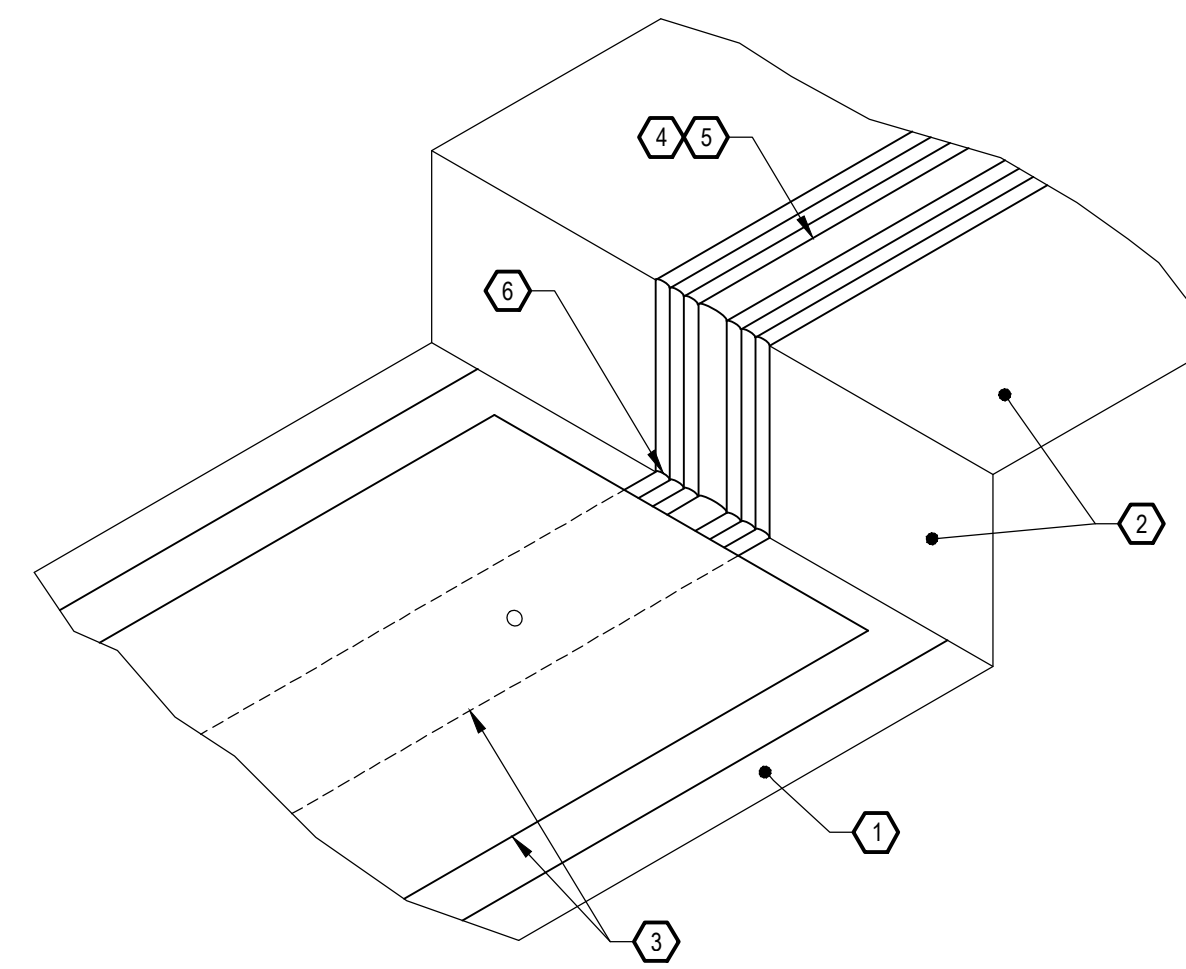
5
 903
 WINGED COMPRESSION SEAL REPAIRS
DETAIL
 NO SCALE

PAY PER LIN. FT. OF NOSING REPAIR (6)(7)
 PAY PER LIN. FT. OF WALL SEAL SEALANT REPAIR (8)



- 1 EXISTING WINGED COMPRESSION SEAL.
- 2 REMOVE 2" OF WINGS OF COMPRESSION SEAL.
- 3 NEW COMPRESSIBLE SEAL JOINT AT WALL. REFER TO DETAIL 4B, DRAWING 903.
- 4 REMOVE 2" OF END OF COMPRESSIBLE SEAL WHILE SEAL IS STILL IN FACTORY WRAP. DO NOT REMOVE TOP 1/4" OF SEAL AND FACTORY SILICONE CAP.
- 5 PREPARE SURFACES AND INSTALL NEW COMPRESSIBLE SEAL TO OVERLAP EXISTING COMPRESSION SEAL AT CUT WINGS. SEAL TOP SURFACE INTERFACE WITH SILICONE. REFER TO SPECIFICATION SECTION 079000.

6
 903
 SPLICE BETWEEN EXISTING WINGED SEAL & NEW COMPRESSIBLE SEAL
DETAIL
 NO SCALE



- 1 EXISTING CONCRETE FLOOR.
- 2 EXISTING OUTSIDE RAISED CURB.
- 3 NEW SEAL/COVER PLATE EXPANSION JOINT SYSTEM. REFER TO DETAIL 1903.
- 4 REMOVE EXISTING CAP FLASHING AND JOINT MATERIALS.
- 5 PREPARE SURFACES AND INSTALL NEW COMPRESSIBLE EXPANSION JOINT SEAL. REFER TO DETAIL 2903.
- 6 COORDINATE TRANSITION OF NEW EXPANSION JOINT SEALS WITH MANUFACTURER. PROVIDE OVERSIZED SILICONE GOVE SEALANT AT BASE OF CURB, 1'-4" LONG CENTERED ON EXPANSION JOINT. REFER TO DETAIL 4902.

7
 903
 COMPRESSIBLE SEAL AT CURB
DETAIL
 NO SCALE

ISSUES

ISSUES 1 11/16/2019 2 11/22/2019

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

DRAWN BY: P.A. Bellman
 ENGINEER: K.R. Dugan
 CHECKED BY: C.W. Przywara

M&T Bank Stadium
 Expansion Joint
 Replacement

MSA
 Project No. 20-033

DRAWING TITLE
**EXPANSION JOINT REPAIR
 DETAILS**

JOB NUMBER DATE
 18556 00 NOVEMBER 2019
 DRAWING NUMBER