CORNELL UNIVERSITY
REPAIR PEDESTRIAN BRIDGE: HUMAN ECOLOGY BUILDING
SUCF #171015

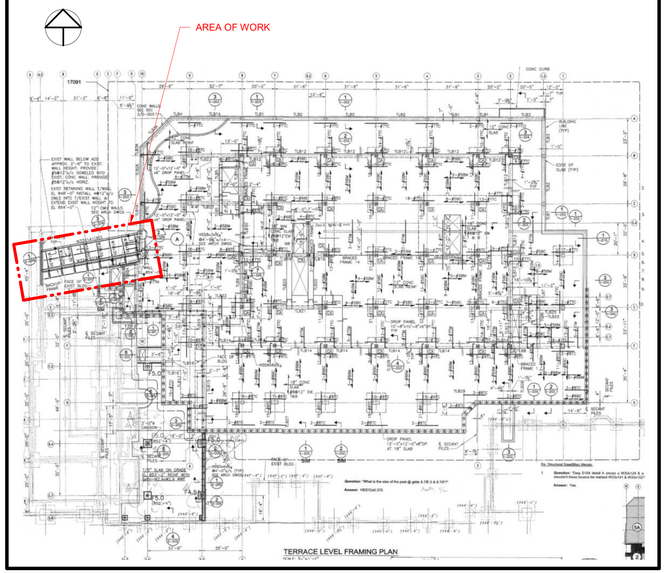
SHEET LIST

SHEET NUMBER	SHEET NAME
S-000	STRUCTURAL COVER SHEET
S-001	STRUCTURAL GENERAL NOTES
S-100	BRIDGE PLANS - DEMO & REPAIR
S-200	BRIDGE SECTIONS - DEMO & REPAIR 1
S-201	BRIDGE SECTIONS - DEMO & REPAIR 2
E-101	HUMAN ECOLOGY BUILDING - ELECTRICAL
P-001	PLUMBING LEGEND, NOTES, AND PLAN

ALT. NO. 1 INSTALL WATERPROOFING (SEE S-100)

10/1/2026 3:05:57 PM

KEY PLAN



SITE LOCATION MAP

PROJECT CONTACTS

ENGINEER
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585-512-2000

CONSTRUCTION ESTIMATION
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Buffalo | New York
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MEP ENGINEER
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SCOPE OF WORK

-DEMOLITION AND REPLACEMENT OF CONCRETE TOPPING SLAB
-IMPLEMENTATION OF DEDICATED DRAINAGE SYSTEM FOR BRIDGE
-STEEL SURFACE REPAIR AND PAINTING

CERTIFICATIONS

BID SET

Human Ecology Building

37 Forest Home Drive
Ithaca, New York 14853

TYLin

PROJECT NO.:	3012.0100810.000
DATE: 09/18/2026	SCALE: N.T.S.
PROJ. MGR.: MW	DRWN. BY: SM / CHKD. BY: MC
DRAWING NO:	S-000
REVISION NO.	

GENERAL NOTES

1. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE 2025 BUILDING CODE OF NYS. THE FOLLOWING STANDARDS WERE USED AS SPECIFIED IN THE GOVERNING BUILDING CODE:
   a. ASCE 7-22 MINIMUM DESIGN LOADS (AND ASSOCIATED CRITERIA) FOR BUILDINGS AND OTHER STRUCTURES
   b. ACI 318-19(22) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   c. AISC 360-22 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING AND SHEETING AND SHALL MAKE SAFE ALL FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION, HIRED BY THE CONTRACTOR, WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.
3. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
4. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS FOR GUIDANCE.
5. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED, SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL.
6. THE CONTRACTOR SHALL USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND ALL OTHER RELEVANT CONSULTANT DRAWINGS.
7. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONDUITS SHALL NOT BE CAST IN CONCRETE MEMBERS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF EQUIPMENT PADS AND EQUIPMENT ANCHORAGE EXCEPT AS SHOWN OR NOTED.
   E. ALL LIGHTNING PROTECTION AND/OR GROUND/EARTHING REQUIREMENTS INCLUDING ANY ASSOCIATED ITEMS EMBEDDED IN OR ATTACHED TO STRUCTURE.
   F. VERIFY AND COORDINATE ALL OPENINGS, EQUIPMENT PADS, SLEEVES AND INSERTS WITH REVIEWED SUBMITTALS, AND NOTIFY THE STRUCTURAL ENGINEER USING HIGHLIGHTED DRAWINGS PRODUCED TO SCALE WHERE THESE DEVIATE IN SIZE OR LOCATION FROM THE STRUCTURAL DRAWINGS.
8. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN NEW CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC. LARGER THAN 6" WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. OPENINGS IN EXISTING SLABS SHALL BE MADE AS PER TYPICAL DETAILS REQUIREMENTS OR AS PER APPROVAL BY THE STRUCTURAL ENGINEER.
9. DEPRESSIONS IN SLABS SHALL NOT BE PLACED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW DEPRESSIONS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT WHICH ARE LOCATED IN STRUCTURAL SLABS.
10. ALL SUSPENDED LOADS (MEP SYSTEMS, ETC.) EXCEEDING 500 POUNDS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT ONE COMPOSITE PLAN PER FLOOR LEVEL WHICH INCLUDES ALL POINT LOADS OF ALL TRADES.
11. THE INFORMATION SHOWN FOR NON-STRUCTURAL ELEMENTS/FINISHES IS GIVEN FOR REFERENCE ONLY, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR THIS INFORMATION.
12. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTE THAT CORNELL UNIVERSITY (CU) STANDARD SPECIFICATIONS ARE PART OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO: STANDARD SPECIFICATIONS FOR 033000 "CAST-IN-PLACE CONCRETE", 220500 "PLUMBING BASIC MATERIALS AND METHODS", AND CU DIVISION 23 HVAC DESIGN.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   A. AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR CONCRETE" (ACI 318)
   B. ACI COLLECTION, LATEST EDITION
   C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE"
2. ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL SUBMIT A PROJECT-SPECIFIC SIGNED AND SEALED CONCRETE MIX DESIGN FOR EACH CONCRETE TYPE SPECIFIED IN THE CONTRACT DOCUMENTS. WHERE 033000 SPECIFICATIONS HAVE BEEN INCLUDED IN THE CONTRACT DOCUMENTS, REFER TO THAT SPECIFICATION SECTION FOR BALANCE OF MIX DESIGN REQUIREMENTS (AGGREGATES, ADMIXTURES, W/C RATIO, AIR CONTENT, ETC.)
4. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR A775 EPOXY COATED WHEN CALLED OUT ON PLAN. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT" (ACI 315).
5. REINFORCING STEEL TO BE WELDED TO CONFORM TO ASTM A706 GRADE 60.
6. WELDED WIRE REINFORCEMENT (W.W.R.) SHALL CONFORM TO ASTM A1064, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.
7. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ALL OTHER DISCIPLINES. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6".
8. GENERAL CONTRACTOR SHALL PROVIDE COORDINATED MEP TRADE SUBMITTALS FOR DESIGN TEAM REVIEW OF PENETRATIONS. ALL TRADES SHALL BE OVERLAID INTO ONE SUBMITTAL TO CAPTURE AND EVALUATE ALL PENETRATIONS THROUGH SLABS AND WALLS TOGETHER.
9. ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
10. MINIMUM CONCRETE COVER FOR REINFORCING STEEL IN CAST-IN-PLACE NON-PRESTRESSED MEMBERS SHALL BE AS FOLLOWS:
    A. ALL CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND: 3”
    B. ALL CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
       a. 2” (#6 THROUGH #18 BARS)
       b. 1-1/2” (#5 BAR, W31 OR D31 WIRE, AND SMALLER)
    C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
       a. SLABS, JOISTS, AND WALLS:
          - 1-1/2” (#14 THROUGH #18 BARS)
          - 3/4" (#11 BAR AND SMALLER)
       b. BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES (STIRRUPS, TIES, SPIRALS, HOOPS, AND PRIMARY REINFORCEMENT): 1-1/2”
    D. SHEAR WALLS: SEE ELEVATIONS FOR SPECIFIED CONCRETE COVER.
11. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
12. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.
13. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERTS, AND EMBED ITEMS.
14. REINFORCING DOWELS, WATER STOPS, AND OTHER EMBED ITEMS SHALL BE INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF EMBEDDED ITEMS IS NOT PERMITTED.
15. WELDED WIRE REINFORCEMENT IN COMPOSITE CONSTRUCTION SHALL HAVE TENSION SPLICES AND BE ANCHORED AT DISCONTINUOUS EDGES, AND SHALL NOT BE SUBSTITUTED WITH ALTERNATIVE MATERIALS INCLUDING BUT NOT LIMITED TO FIBERS.
16. CONDUIT EMBEDDED IN CONCRETE SHALL FOLLOW THE GUIDELINES IN THE TYPICAL DETAILS. THE CONTRACTOR SHALL NOT VIOLATE THESE GUIDELINES WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING LAYOUT OF ALL EMBEDDED CONDUIT FOR APPROVAL BY ENGINEER OF RECORD BEFORE PLACEMENT.
17. WHERE REBAR CONGESTION DICTATES, LAP SPLICES SHALL BE STAGGERED IN ACCORDANCE WITH ACI REINFORCEMENT DETAILING REQUIREMENTS. ALTERNATIVELY, MECHANICAL SPLICES MAY BE EMPLOYED, AT THE CONTRACTOR’S OPTION AND EXPENSE, PROVIDED THEY ARE STAGGERED TO MAINTAIN MINIMUM SPACING AND COVER PER ACI REINFORCEMENT DETAILING REQUIREMENTS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   A. AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".
   B. AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
   C. AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE - STEEL".
   D. RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) “SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS”.

2. STEEL SCOPE ON THIS PROJECT IS LIMITED TO CLEANING AND PAINTING STEEL. SEE SPECIFICATION SECTION 099113 FOR GUIDANCE.

SPECIAL INSPECTIONS (BCNYS)

1. INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
   A. CONCRETE CONSTRUCTION (BCNYS 1705.3, TABLE 1705.3)
      a. WELDING OF REINFORCING BARS (BCNYS 1705.3.1, TABLE 1705.3)
      b. MATERIALS TESTS (BCNYS 1705.3.2, TABLE 1705.3)
      c. POST-INSTALLED ANCHORS (BCNYS TABLE 1705.3, ACI 318 CHAPTER 17)
2. STRUCTURAL OBSERVATIONS REQUIRED BY THE LOCAL JURISDICTION AND BCNYS 1704.6 SHALL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL PROVIDED BY THE OWNER. STRUCTURAL OBSERVATIONS SHALL BE THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
   A. TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.

STRUCTURAL SYSTEM DESCRIPTION

1. THE GRAVITY SYSTEM OF THE (E) BRIDGE IS GENERALLY COMPRISED OF REINFORCED CONCRETE SLAB ON STRUCTURAL STEEL FRAME.
2. THE LATERAL FORCE RESISTING SYSTEM IS GENERALLY COMPRISED OF (E) REINFORCED CONCRETE SHEAR WALLS AT EA END OF THE (E) BRIDGE. THE (E) REINFORCED CONCRETE BRIDGE DECK SERVES AS HORIZONTAL DIAPHRAGM THAT DISTRIBUTES LATERAL LOADS TO THE LATERAL SYSTEM.

SPECIAL INSPECTIONS

1. ALL PREFABRICATED ITEMS SHALL BE MANUFACTURED BY APPROVED AND CERTIFIED SHOPS.

2. SPECIAL INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER'S TESTING AND SPECIAL INSPECTION REPRESENTATIVES.

3. REFER TO SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CAST-IN-PLACE - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING		REFERENCE STANDARD	BCNYS STANDARD
	CONTINUOUS	PERIODIC		
1. INSPECT REINFORCING STEEL FOR CORRECT MATERIAL, SIZE, CONDITION AND PLACEMENT.		X	ACI 318: 3.5 ACI 318: 7.1-7.7	1903.5, 1907.1, 1907.7, 1914.4
2. INSPECT REINFORCING STEEL WELDING IN ACCORDANCE WITH BCNYS TABLE 1704.3, ITEM 5B.		X	AWS D1.4 ACI 318: 3.5.2	1903.5.2
3. PRIOR TO AND DURING PLACEMENT OF CONCRETE, INSPECT DOWELS INSTALLED IN CONCRETE FOR PROPER LOCATION AND DEPTH OF EMBEDMENT.	X			
4. VERIFY THAT REQUIRED CONCRETE DESIGN MIX IS USED.		X	ACI 318: CH. 4 ACI 318: 5.2-5.4	1904, 1905.2, 1905.3, 1905.4, 1914.2, 1914.3
5. TAKE SAMPLES OF FRESH CONCRETE TO PERFORM SLUMP TESTS AND MEASURE AIR CONTENT AND TEMPERATURE OF THE CONCRETE BEING PLACED. CAST TEST CYLINDERS FOR STRENGTH TESTS.	X		ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	1905.6, 1914.10
6. INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 5.11-5.13	1905.11, 1905.13, 1914.9
7. VERIFY CONCRETE STRENGTH BY TESTING CYLINDERS CONSTRUCTED OF FRESHLY PLACED CONCRETE.		X		

LOADING DOCK ACCESS AND PROTECTION

1. ACCESS TO AND USE OF LOADING DOCK SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. EXISTING FACILITIES AND DELIVERIES SHALL CONTINUE WITHOUT INTERRUPTION. THE CONTRACTOR SHALL COORDINATE WITH CORNELL TO UNDERSTAND DELIVERY SCHEDULE SO THAT WORK IS CONDUCTED AT TIMES THAT WILL MINIMIZE, TO THE GREATEST EXTENT POSSIBLE, DOWNTIME AND DISRUPTION TO BOTH DELIVERIES AND THE WORK ITSELF. THE CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN THEIR BID FOR MAINTAINING SAFE ACCESS DURING DEMOLITION WORK AND THROUGHOUT THE DURATION OF CONSTRUCTION.

2. SUBMIT A SEQUENCING AND TEMPORARY PROTECTION PLAN FOR MAINTAINING SAFE ACCESS THROUGHOUT CONSTRUCTION. SUBMIT THE PLAN FOR REVIEW AND COORDINATION WITH CORNELL. ASSUME AT LEAST ONE MEETING TO REVIEW THE PROPOSED SUBMITTAL AND RESUBMISSION OF THE SUBMITTAL AFTER ADDRESSING COMMENTS. TEMPORARY PROTECTION PLAN SHALL OUTLINE THE STEPS THE CONTRACTOR WILL TAKE TO ENSURE SURROUNDING SITE, STRUCTURE, AND LOADING DOCK ELEMENTS ARE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION PROCESSES. THE PROPOSED PLAN SHALL ALSO OUTLINE SPARK AND FIRE PROTECTION AND MAINTAIN FIRE DEPARTMENT ACCESS TO THE BUILDING AND FDC.

3. ALL DEMOLITION WORK MUST BE COORDINATED WITH CORNELL AND MAY BE REQUIRED TO BE COMPLETED ONLY DURING CERTAIN TIME PERIODS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EXISTING CONDITIONS SURVEY

1. CONTRACTOR SHALL PROVIDE AN EXISTING CONDITIONS SURVEY TO CONFIRM DECK AND ADJACENT SIDEWALK CONCRETE SPOT ELEVATIONS PRIOR TO BEGINNING DEMOLITION. EXISTING ELEVATIONS MUST BE COORDINATED WITH PLACEMENT OF NEW CONCRETE TO CONFIRM ADEQUATE SURFACE DRAINAGE. PROVIDE SPOT ELEVATIONS AT CORNERS OF BRIDGE DECK AT EITHER SIDE OF EXPANSION JOINTS AND ELEVATIONS AT 4'-0" O.C. ALONG BRIDGE AND FOR PLAN AREA OF SIDEWALK TO BE REPLACED.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS REGARDING THE DEMOLITION OF STRUCTURES INCLUDING ANSI/NFPD 2411-BUILDING CONSTRUCTION AND DEMOLITION OPERATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY ADJACENT BUILDING TO REMAIN.
3. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE PROJECTS JURISDICTION, WHO SHALL DESIGN AND SUPERVISE INSTALLATION OF ALL UNDERPINNING AND SHORING.
4. THE CONTRACTOR SHALL SUBMIT A WRITTEN NOTIFICATION IF, DURING THE WORK OF DEMOLITION AND CUTTING, CONDITIONS ARE DISCOVERED WHICH SIGNIFICANTLY VARY FROM THOSE SHOWN OF THE DRAWINGS.
5. SHOP DRAWINGS SHALL BE SUBMITTED WITH THE SEAL OF THE PROFESSIONAL ENGINEER ENGAGED BY CONTRACTOR.
6. THE CONTRACTOR FOR THE WORK OF THIS SECTION SHALL BE HELD TO HAVE VISITED THE SITE, EXAMINED THE PREMISES, DETERMINED FOR HIMSELF THE EXISTING CONDITIONS, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK, AND ALL MATTERS WHICH MAY IN ANY WAY AFFECT THE WORK BEFORE SUBMITTING A BID.
7. INFORMATION REGARDING EXISTING CONSTRUCTION OR CONDITIONS IS BASED ON AVAILABLE RECORD DRAWINGS WHICH MAY OR MAY NOT TRULY REFLECT EXISTING CONDITIONS. SUCH INFORMATION IS INCLUDED ON THE ASSUMPTION THAT IT MAY BE OF INTEREST TO THE CONTRACTOR, BUT THE ARCHITECT, CONSTRUCTION MANAGER, OWNER AND THEIR CONSULTANTS DO NOT ASSUME RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.
8. CONTRACTOR TO NOTIFY THE ARCHITECT IF, DURING THE COURSE OF DEMOLITION, CONDITIONS ARE DISCOVERED WHICH SIGNIFICANTLY VARY FROM THOSE SHOWN ON THE DRAWINGS.
9. THE CONTRACTORS SHALL ACCEPT THE CONDITION OF THE SITE AND STRUCTURES AS FOUND. THE ARCHITECT, CONSTRUCTION MANAGER AND OWNER ASSUME NO RESPONSIBILITY FOR CONDITION OF SITE OR STRUCTURES NOT THE CONTINUATION OF THE CONDITION EXISTING AT TIME OF BIDDING OR THEREAFTER.
10. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED FROM THE STRUCTURE AS THE WORK PROGRESSES. SALVAGED ITEMS MUST BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED.
11. STORAGE OR SALE OF REMOVED ITEMS ON THE SITE WILL NOT BE PERMITTED.
12. THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.
13. CONDUCT DEMOLITION OPERATIONS AND THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
14. DO NOT CLOSE OR OBSTRUCT STREET, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.
15. MAINTAIN ANY EXISTING UTILITIES REQUIRED TO REMAIN; KEEP IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
16. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.
17. DISCONNECT AND SEAL ANY ABANDONED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS. COORDINATE ALL WORK WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION.
18. BEFORE COMMENCING ANY ALTERATION OR DEMOLITION WORK, SUBMIT FOR REVIEW BY THE ARCHITECT, CONSTRUCTION MANAGER AND APPROVAL OF THE OWNER, A SCHEDULE SHOWING THE COMMENCEMENT, THE ORDER, AND THE COMPLETION DATES FOR THE VARIOUS PARTS OF THIS WORK.
19. CONTRACTOR WILL TAKE FULL PRECAUTIONS TO PROTECT WORKMAN, PASSERS-BY OR ANY OTHER PERSONS FROM FALLING DEBRIS AND OTHER HAZARDS OF DEMOLITION OPERATIONS.
20. CONTRACTOR WILL EXECUTE DEMOLITION WORK TO INSURE PROTECTION OF EXISTING PORTIONS OF BUILDING TO REMAIN AGAINST DAMAGES WHICH MIGHT OCCUR FROM FALLING DEBRIS OR OTHER CAUSE. DO NOT INTERFERE WITH USE OF ADJACENT OCCUPIED BUILDINGS AND AREAS. MAINTAIN FREE, SAFE PASSAGE TO AND FROM OCCUPIED ADJACENT BUILDINGS.
21. CONTRACTOR WILL NOT LOAD STRUCTURE WITH WEIGHT THAT WILL ENDANGER, OVERLOAD OR CAUSE EXCESSIVE DEFLECTION OF THAT EXISTING STRUCTURE, OR THAT WILL DAMAGE FINISHED SURFACES ADJACENT TO AND/OR SUPPORTED BY THE EXISTING STRUCTURE, EXCEPT PORTIONS BEING REMOVED.
22. CONTRACTOR WILL NOT EMPLOY ANY CONSTRUCTION OPERATION EQUIPMENT OR VEHICLES THAT WILL ENDANGER, OVERLOAD OR CAUSE EXCESSIVE DEFLECTION OF THE EXISTING STRUCTURE, OR THAT WILL DAMAGE FINISHED SURFACES ADJACENT TO AND/OR SUPPORTED BY THE EXISTING STRUCTURE, EXCEPT PORTIONS BEING REMOVED.
23. CONTRACTOR WILL TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT, DAMAGE, OR COLLAPSE OF ANY PART OF BUILDING, SIDEWALKS ADJACENT PROPERTY OR STREET PASSAGES; BE LIABLE FOR ANY SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. IF SUCH DAMAGE DOES ACCIDENTALLY OCCUR, CONTRACTOR SHALL REPAIR PROMPTLY AT NO COST TO OWNER.
24. CONTRACTOR WILL PROVIDE THE NECESSARY SAFEGUARDS TO PREVENT ACCIDENTS, TO AVOID ALL NECESSARY HAZARDS AND PROTECT THE PUBLIC, THE WORK AND PROPERTY AT ALL TIMES, INCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS.
25. CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY ARISE OR OCCUR TO ANY PARTY WHATSOEVER BY REASON OF THE NEGLECT IN PROVIDING PROPER LIGHTS, GUARDS, BARRIERS, OR ANY OTHER SAFEGUARD TO PREVENT DAMAGES TO PROPERTY, LIFE AND LIMB.
26. CONTRACTOR WILL MAKE SUCH EXPLORATIONS AND PROBES AS ARE NECESSARY TO ASCERTAIN ANY REQUIRED PROTECTIVE MEASURES BEFORE PROCEEDING WITH DEMOLITION AND REMOVAL. GIVE PARTICULAR ATTENTION TO SHORING AND BRACING REQUIREMENTS AS TO PREVENT ANY DAMAGE TO EXISTING CONSTRUCTION.
27. PROVIDE INTERIOR AND EXTERIOR SHORING; BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN. A PROFESSIONAL ENGINEER SHALL ADVISE ON BRACING, SHORING, UNDERPINNING, OR OTHER STRUCTURAL REQUIREMENTS. THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR PREVENTION OF MOVEMENT OR OTHER STRUCTURAL FAULT.
28. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED MASONRY, CONCRETE, PLASTER, AND SIMILAR DEBRIS. PROTECT UNALTERED PORTIONS OF THE EXISTING BUILDING AFFECTED BY THE OPERATIONS UNDER THIS SECTION BY DUST-PROOF PARTITIONS AND OTHER ADEQUATE MEANS.
29. PROVIDE ADEQUATE FIRE PROTECTION IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION AND EHS&S REQUIREMENTS.
30. DO NOT CLOSE OR OBSTRUCT WALKWAYS, PASSAGEWAYS, OR STAIRWAYS WITHOUT THE AUTHORIZATION OF THE ARCHITECT. DO NOT STORE OR PLACE MATERIALS IN PASSAGEWAYS, STAIRS, OR OTHER MEANS OF EGRESS. CONDUCT OPERATIONS WITH MINIMUM TRAFFIC INTERFERENCE.
31. ERECT TEMPORARY COVERED PASSAGEWAYS AT STREET LEVEL AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
32. VERIFY THAT AREAS OF DEMOLITION WORK ARE PROTECTED AND TEMPORARY DUST-PROOF PARTITIONS HAVE BEEN INSTALLED.
33. VERIFY THAT CONSTRUCTION TO BE REMOVED IS NOT LOAD BEARING OR HAS BEEN PROPERLY BRACED, FRAMED OR SUPPORTED.
34. INSPECT EXISTING CONDITIONS OF THE PROJECT, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR TO MOVEMENT DURING DEMOLITION AND CUTTING. AFTER UNCOVERING WORK, INSPECT THE CONDITIONS AFFECTING THE INSTALLATION OR PERFORMANCE OF THE WORK. REPORT DIFFERING OR QUESTIONABLE CONDITIONS TO THE ARCHITECT IN WRITING; DO NOT PROCEED WITH THE WORK UNTIL THE ARCHITECT HAS PROVIDED FURTHER INSTRUCTIONS.
35. PROVIDE ADEQUATE TEMPORARY SUPPORT AS NECESSARY TO ASSURE THE STRUCTURAL VALUE OR INTEGRITY OF THE AFFECTED PORTION OF THE WORK.
36. PROVIDE DEVICES AND METHODS TO PROTECT OTHER PORTIONS OF THE PROJECT FROM DAMAGE.
37. USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR TO THE LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING, AND POLLUTION.
38. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO THE START OF THE WORK.
39. PROVIDE DRAINAGE FOR TEMPORARY WATER USE.
40. DO NOT CUT OR REMOVE CONSTRUCTION WHICH MIGHT WEAKEN OR IMPAIR THE STRUCTURAL INTEGRITY OR STRENGTH OF THE STRUCTURAL FRAMING OR SUPPORT SYSTEMS WHICH ARE TO REMAIN.
41. WHERE PORTIONS OF STRUCTURES ARE TO BE REMOVED, REMAINING PROTECTED FROM DAMAGE AND PREPARED TO FIT NEW CONSTRUCTION. DAMAGE TO PORTIONS OF STRUCTURES TO REMAIN SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
42. EXISTING WATERPROOFING SYSTEMS AND FLASHING SHALL BE CAREFULLY PROTECTED TO MAINTAIN WORKABLE CONDITIONS OF FITTING NEW WORK CONSTRUCTION.
43. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER TO GROUND BY MEANS OF HOISTS, DERRICKS, OR OTHER SUITABLE METHODS.
44. DESIGN, PROVIDE ERECT AND MAINTAIN NECESSARY TEMPORARY SHORING, OR SUPPORT WHERE LOAD BEARING STRUCTURAL OR SUPPORTING MEMBERS WEAKENED BY CUTS OR OPENINGS OR ARE SUBJECT TO DAMAGE FROM DEMOLITION OPERATIONS, AND OTHERWISE AS REQUIRED FOR SAFETY OR TO PROTECT FINISH SURFACES FROM DAMAGE.
45. CONSTRUCTION AND ADEQUACY OF THE SHORING SHALL BE THE ENTIRE RESPONSIBILITY OF THE CONTRACTOR ANY DAMAGE CAUSED BY THE INADEQUACY OF THE SHORING OR OTHER SUPPORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDY AT NO ADDITIONAL EXPENSE TO THE OWNER.

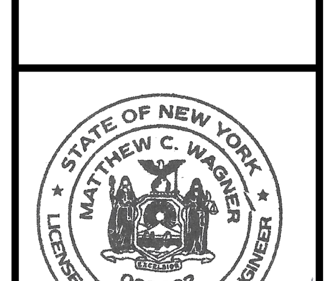
DEMOLITION NOTES, CONTINUED

46. SHORING AND BRACING SHALL REMAIN UNTIL NEW STRUCTURAL FRAMING AND OR SUPPORTS ARE INSTALLED. COORDINATE OPERATIONS FULLY WITH OTHER TRADES.
47. BE READY AT ANY TIME TO PROMPTLY PROVIDE, ADD TO, OR STRENGTHEN TEMPORARY SHORING, BRACING, OR SUPPORT FOR EXISTING WORK, IN CASE EXISTING SIGNS OF STRUCTURAL STRESS.
48. CUT, REMOVE, ALTER, TEMPORARILY REMOVE AND REPLACE, OR RELOCATE EXISTING WORK AS REQUIRED FOR PERFORMANCE OF THE WORK. PERFORM SUCH WORK REQUIRED WITH DUE CARE, INCLUDING SHORING AND BRACING.
49. COORDINATE PATCHING INVOLVING THE VARIOUS TRADES WHETHER OR NOT SPECIFICALLY MENTIONED IN THE RESPECTIVE SPECIFICATION SECTIONS.
50. CONFINE CUTTING OF EXISTING ROOF AREAS DESIGNATED TO REMAIN TO THE LIMITS REQUIRED FOR THE PROPER INSTALLATION OF THE NEW WORK. CUT AND FOLD BACK EXISTING BUILT-UP ROOFING. CUT AND REMOVE INSULATION AND RELATED ITEMS. PROVIDE TEMPORARY WEATHER TIGHT PROTECTION AS REQUIRED UNTIL NEW ROOFING AND FLASHING ARE INSTALLED. CONSULT THE OWNER TO ASCERTAIN IF EXISTING GUARANTEE BONDS ARE IN FORCE AND EXECUTE THE WORK SO AS NOT TO INVALIDATE SUCH BONDS.
51. WHERE UTILITIES ARE REMOVED, RELOCATED OR ABANDONED, CAP VALVE PLUG, OR BYPASS TO MAKE A COMPLETE AND WORKING INSTALLATION.
52. RESTORE EXISTING PIPE AND DUCT COVERINGS DAMAGED BY WORK UNDER THIS CONTRACT TO ORIGINAL UNDAMAGED CONDITION.
53. IMMEDIATELY RESTORE TO SERVICE AND REPAIR ANY DAMAGE CAUSED BY CONTRACTOR'S WORKMEN TO EXISTING PIPE AND CONDUITS, WIRES, CABLES, ETC., OF UTILITY SERVICES OR OF FIRE PROTECTION SYSTEMS AND COMMUNICATIONS SYSTEMS WHICH ARE NOT SCHEDULED FOR DISCONTINUANCE OR ABANDONMENT.
54. RESTORE FINISH OF FLOORS, WALLS, AND CEILINGS REMAINING IN PLACE BUT DAMAGED OR DEFACED BECAUSE OF DEMOLITION OR ALTERATION WORK TO CONDITION EQUAL TO THAT WHICH EXISTED AT BEGINNING OF WORK UNDER THIS CONTRACT.
55. WHERE ALTERATION OR REMOVALS EXPOSE DAMAGED OR UNFINISHED SURFACES OR MATERIALS, REMOVE THEM AND PROVIDE NEW OR SALVAGED MATERIALS TO MAKE CONTINUOUS SURFACES UNIFORM.
56. THE EXISTING BUILDING SHALL NOT BE USED AS A WORK SHOP. NEITHER SHALL THE FURNISHINGS OR EQUIPMENT IN ANY ROOM BE USED AS WORK BENCHES. SHOULD ANY DAMAGE OCCUR DURING THE PROGRESS OF THE WORK TO ANY FURNITURE, FIXTURES, EQUIPMENT, OR APPURTENANCES THEREIN, SUCH DAMAGE SHALL BE REPAIRED, REPLACED OR MADE GOOD BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER.
57. WHERE REMOVING EXISTING FLOOR FINISH AND BASE, REMOVE ALL ADHESIVE AND LEAVE FLOORS AND WALLS SMOOTH AND FLUSH, READY TO RECEIVE NEW FINISH.
58. REMOVE FROM THE SITE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM WORK.
59. BURNING OF REMOVED MATERIALS FROM DEMOLISHED STRUCTURES IS PROHIBITED. LEGALLY DISPOSE OF ALL REMOVED MATERIALS OFF SITE. PAY ANY AND ALL FEES ASSOCIATED WITH DISPOSAL WORK. LEAVE THE SITE IN AN ORDERLY CONDITION TO THE APPROVAL OF THE ARCHITECT.
60. REMOVE DEBRIS AS THE WORK PROGRESSES. MAINTAIN EXISTING PREMISES IN A NEAT AND CLEAN CONDITION.

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REVISIONS

NO.	DATE	DESCRIPTION



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255 East Avenue
Rochester | New York | 14604
585-512-2000

REPAIR PEDESTRIAN BRIDGE: HUMAN ECOLOGY BUILDING SUCF #171015

CORNELL UNIVERSITY

STRUCTURAL GENERAL NOTES

PROJECT NO.:		
3012.0100810.000		
DATE: 09/18/2026	SCALE: 1" = 1'-0"	
PROJ. MGR.: MW	DRWN. BY: SM	CHKD. BY: MC
DRAWING NO.: S-001		
REVISION NO.:		

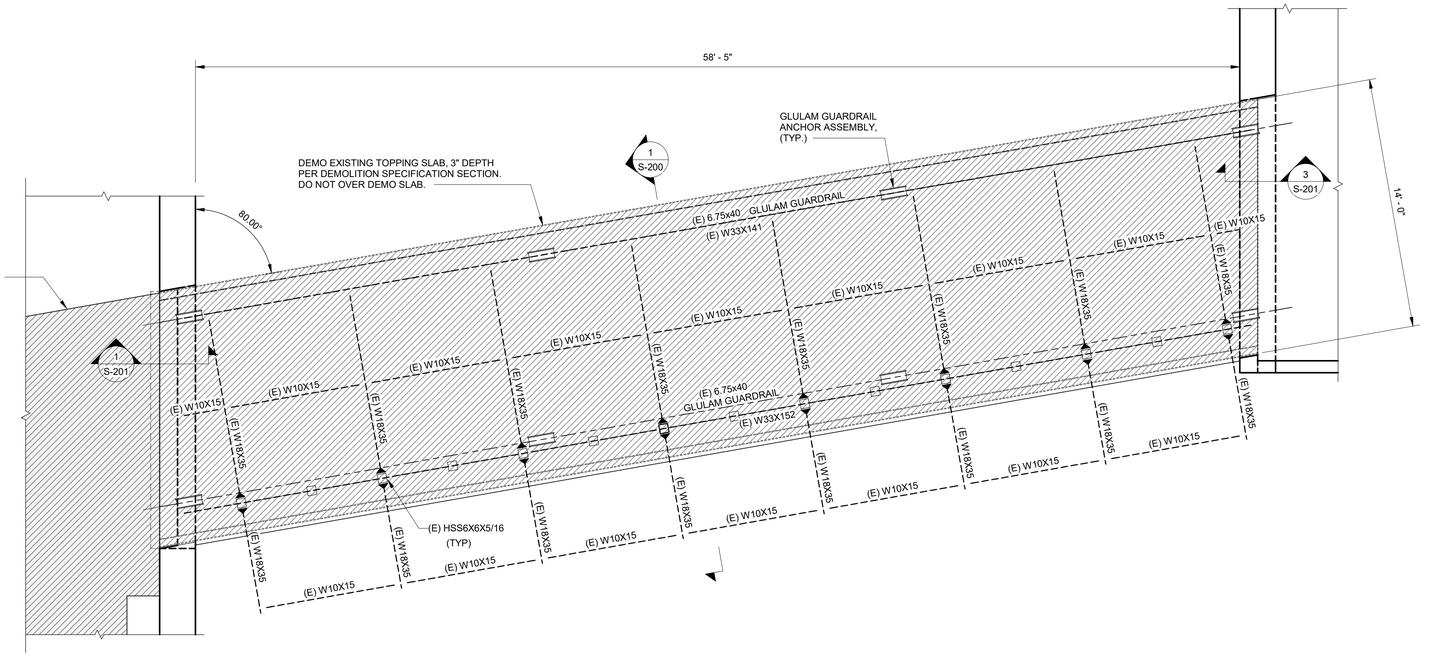
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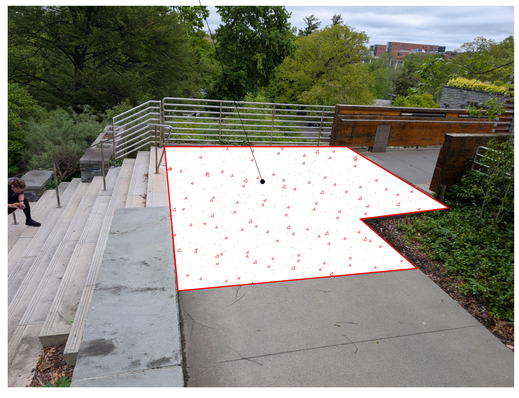
1A S-100 DEMOLITION LIMITS OF EXISTING SIDEWALK

3/32" = 1'-0"



1 S-100 PEDESTRIAN BRIDGE PLAN - DEMO

1/4" = 1'-0"

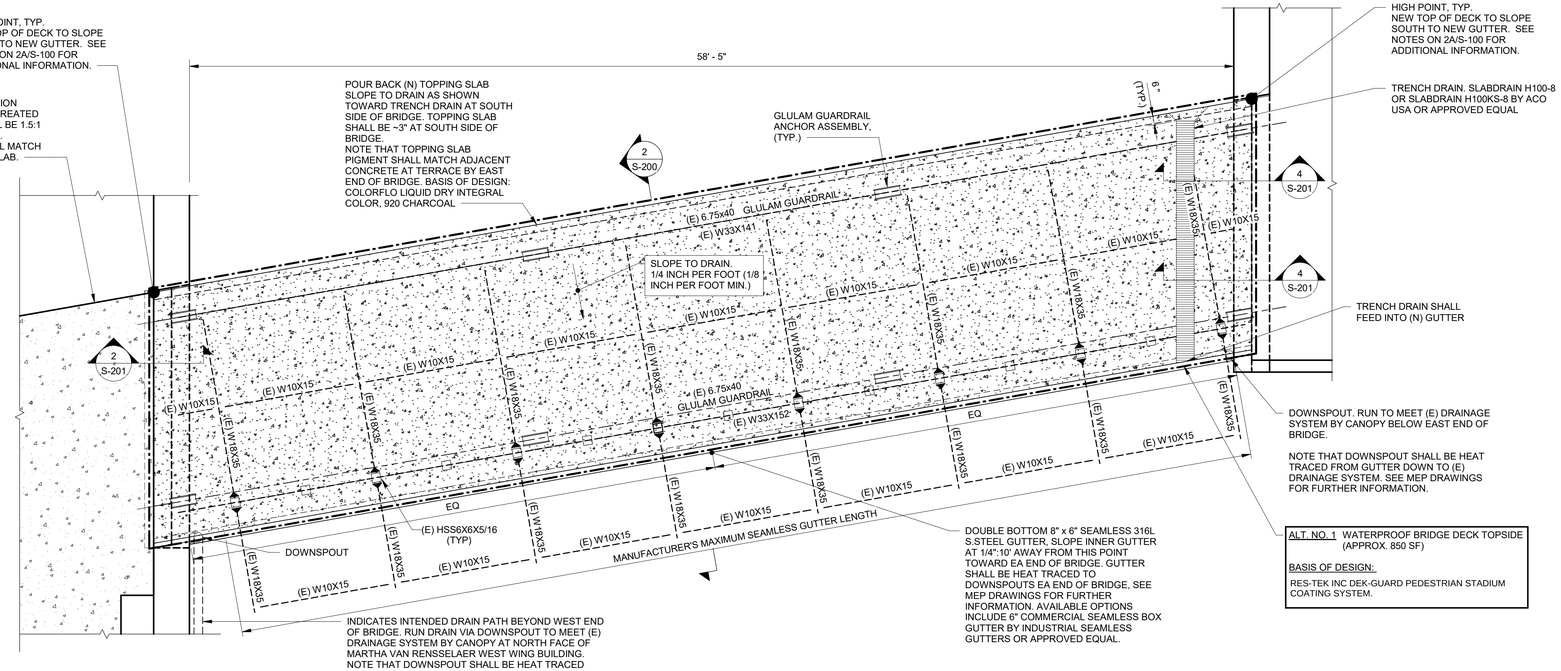


NOTES:

PROVIDE C.J. LAYOUT WITH SHOP DRAWING SUBMITTAL FOR REVIEW. INCLUDE EXISTING CORNER SPOT ELEVATIONS FOR REVIEW AND COORDINATION WITH FINAL BRIDGE DECK PLACEMENT PRIOR TO DEMOLITION OR HYDRODEMOLITION OF EXISTING CONCRETE.

2A S-100 SIDEWALK REPLACEMENT - WEST END

3/32" = 1'-0"



2 S-100 PEDESTRIAN BRIDGE PLAN - REPAIR

1/4" = 1'-0"

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NO.	DATE	DESCRIPTION

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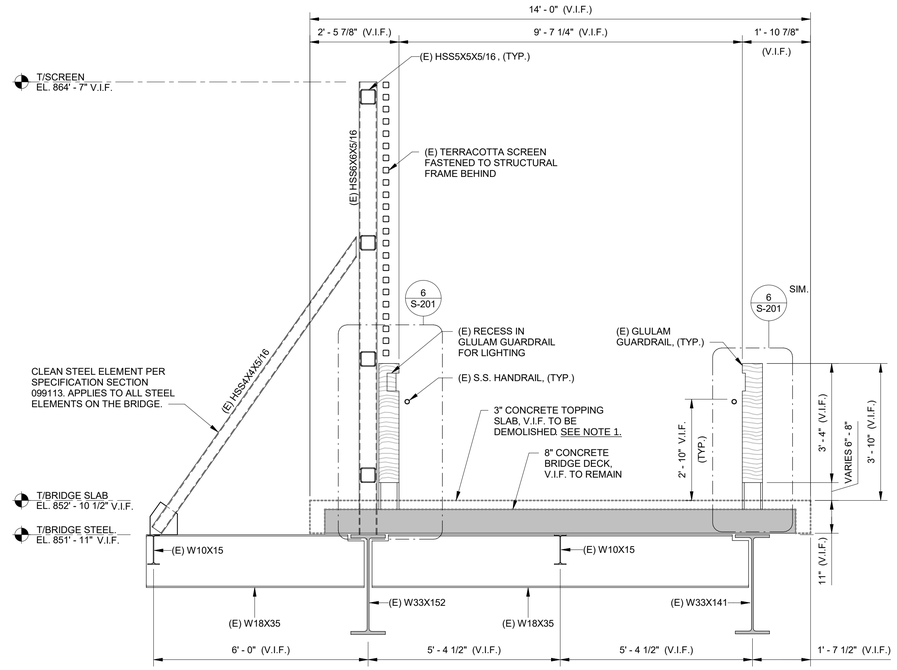
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REPAIR PEDESTRIAN BRIDGE: HUMAN ECOLOGY BUILDING SUCF #171015

CORNELL UNIVERSITY

BRIDGE PLANS - DEMO & REPAIR

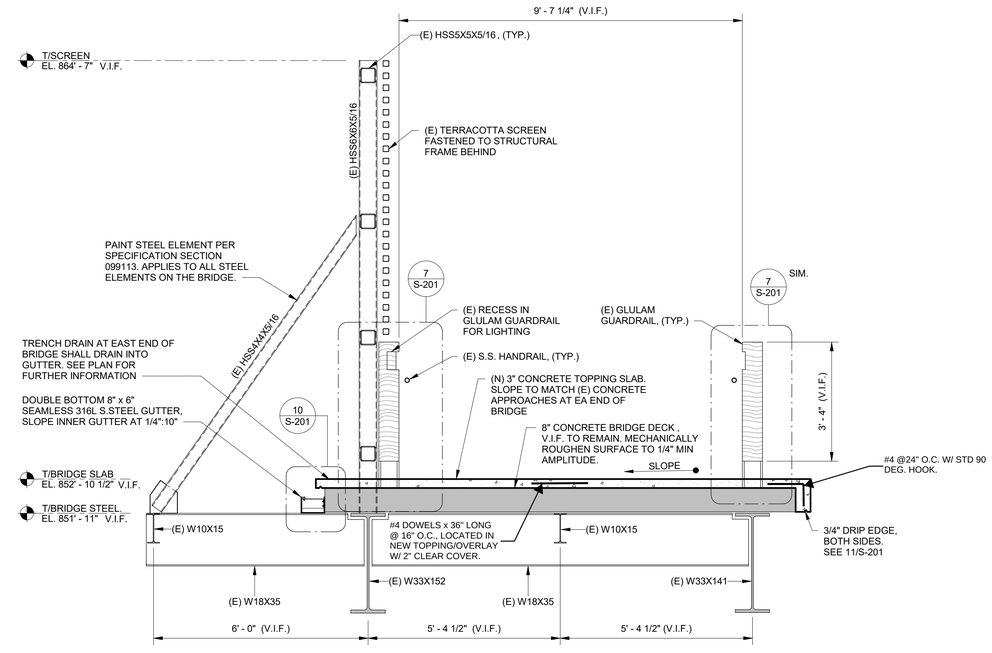
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DATE:	09/18/2026
SCALE:	As indicated
PROJ. MGR.:	MW
DRWN. BY:	SM
CHKD. BY:	MC
DRAWING NO.:	S-100
REVISION NO.	



1 / S-200 PEDESTRIAN BRIDGE TRANSVERSE SECTION - DEMO

1/2" = 1'-0"

NOTE 1: ALL EXISTING W.W.R. LOCATED IN TOP 3 INCHES TO BE REMOVED. ALL MILD STEEL REINFORCEMENT, #3 OR LARGER TO REMAIN. PROTECT DURING DEMO AND CLEAN TO SSPC-SP6 PRIOR TO POURING NEW TOPPING/OVERLAY.



2 / S-200 PEDESTRIAN BRIDGE TRANSVERSE SECTION - REPAIR

1/2" = 1'-0"

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STATE OF NEW YORK * MATTHEW C. WAGNER * 083282 LICENSED PROFESSIONAL ENGINEER

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585-512-2000

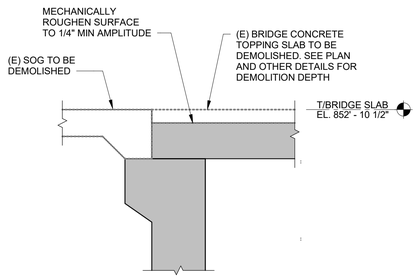
REPAIR PEDESTRIAN BRIDGE: HUMAN ECOLOGY BUILDING SUCF #171015

CORNELL UNIVERSITY

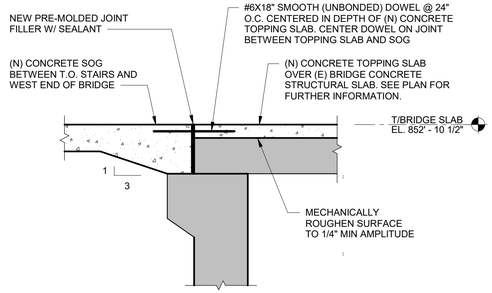
BRIDGE SECTIONS - DEMO & REPAIR 1

PROJECT NO.:	
3012.0100810.000	
DATE: 09/18/2026	SCALE: 1/2" = 1'-0"
PROJ. MGR.: MW	DRWN. BY.: SM / CHKD. BY.: MC
DRAWING NO.: S-200	
REVISION NO.	

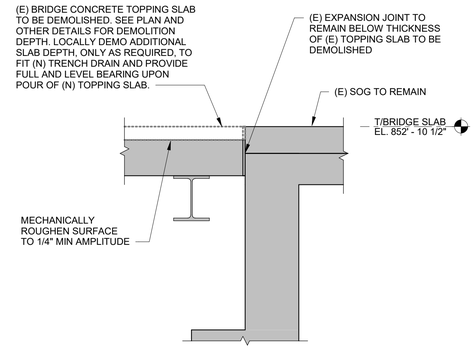
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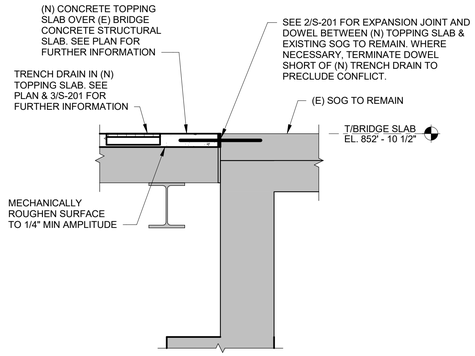
1 S-201 SECTION - DEMO AT EAST END
3/4" = 1'-0"



2 S-201 SECTION - REPAIR AT WEST END
3/4" = 1'-0"

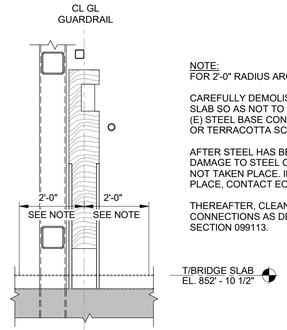


3 S-201 SECTION - DEMO AT WEST END
3/4" = 1'-0"



4 S-201 SECTION - REPAIR AT EAST END
3/4" = 1'-0"

5 S-201 NOT USED
3" = 1'-0"



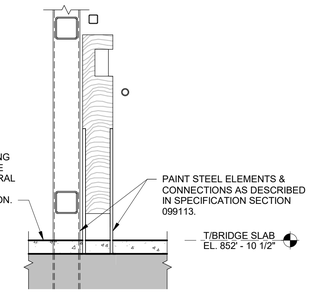
NOTE:
FOR 2'-0" RADIUS AROUND CL OF GL GUARDRAIL:

CAREFULLY DEMOLISH CONCRETE TOPPING SLAB SO AS NOT TO DAMAGE ANY (E) STEEL OR (E) STEEL BASE CONNECTION FOR GUARDRAIL OR TERRACOTTA SCREEN SUPPORT.

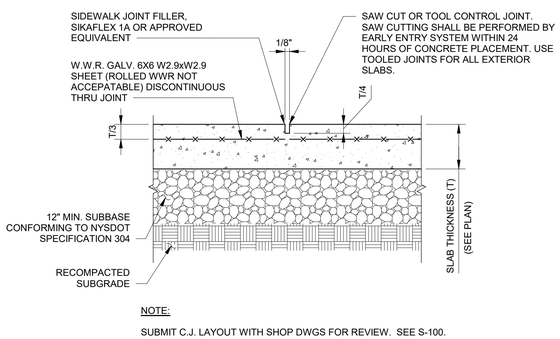
AFTER STEEL HAS BEEN EXPOSED, VERIFY DAMAGE TO STEEL OR BASE CONNECTIONS HAS NOT TAKEN PLACE. IF DAMAGE HAS TAKEN PLACE, CONTACT EOR PRIOR TO PROCEEDING.

THEREAFTER, CLEAN STEEL ELEMENTS & CONNECTIONS AS DESCRIBED IN SPECIFICATION SECTION 099113.

6 S-201 SECTION - DEMO AROUND GUARDRAIL SUPPORT
3/4" = 1'-0"



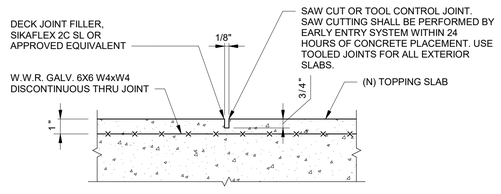
7 S-201 SECTION - REPAIR AROUND GUARDRAIL SUPPORT
3/4" = 1'-0"



NOTE:

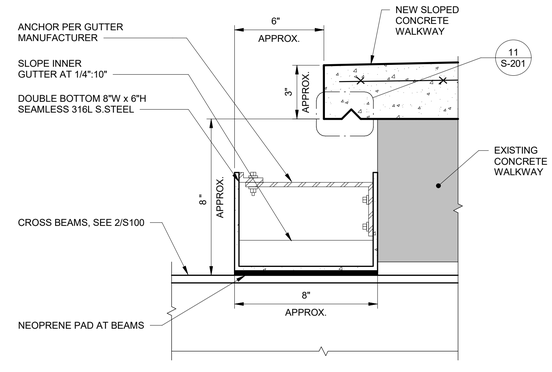
SUBMIT C.J. LAYOUT WITH SHOP DWGS FOR REVIEW. SEE S-100.

8 S-201 TYPICAL SECTION @ SLAB-ON-GRADE SIDEWALK
N.T.S.

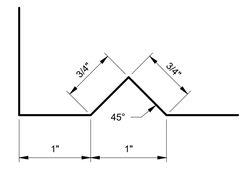


NOTE: PROVIDE N-S CONTROL JOINTS @ 15'-0" O.C.

9 S-201 TYPICAL SECTION @ CONCRETE DECK OVERLAY
N.T.S.



10 S-201 GUTTER DETAIL
3" = 1'-0"



11 S-201 DRIP EDGE DETAIL
12" = 1'-0"

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REVISIONS

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REPAIR PEDESTRIAN BRIDGE: HUMAN ECOLOGY BUILDING SUCF #171015

CORNELL UNIVERSITY

BRIDGE SECTIONS - DEMO & REPAIR 2

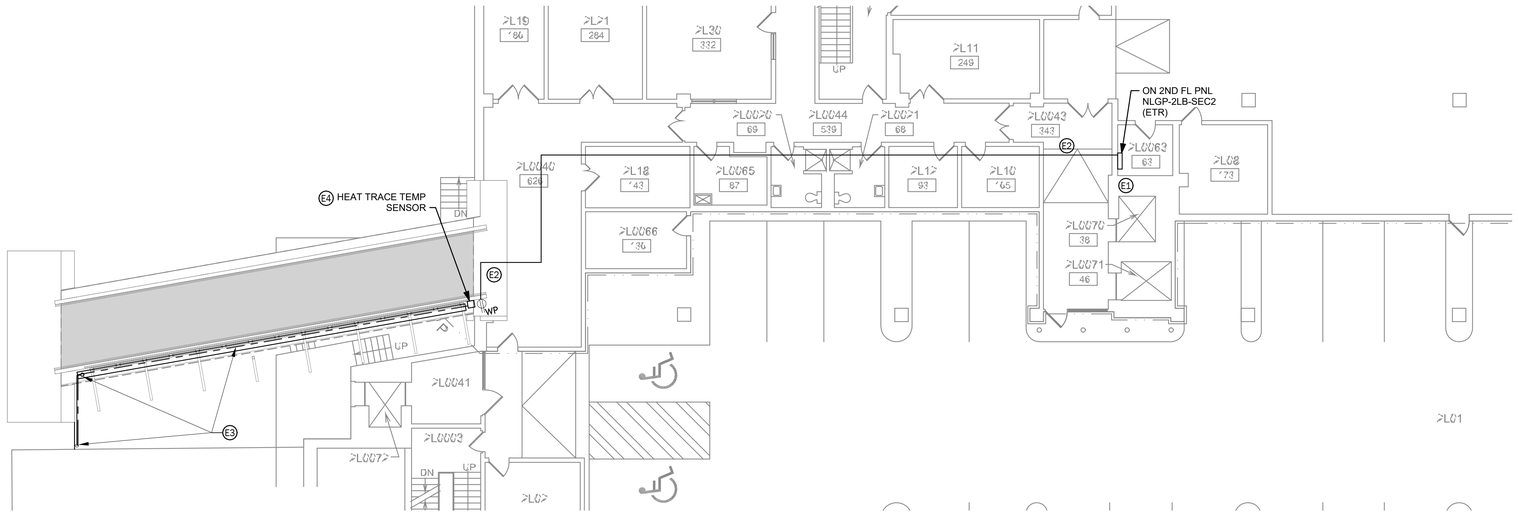
PROJECT NO.: 3012.0100810.000

DATE: 09/18/2026 | SCALE: As indicated

PROJ. MGR	DRWN. BY:	CHKD. BY:
MW	SM	MC

DRAWING NO.: S-201

REVISION NO.

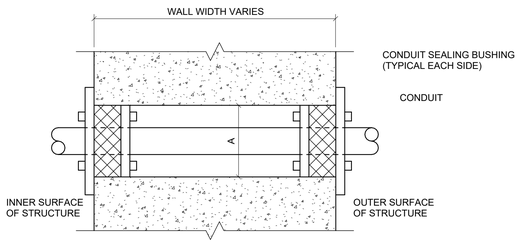


1 HUMAN ECOLOGY BUILDING - LEVEL 2 ELECTRICAL PLAN

3/32" = 1'-0"

KEYED NOTES - ELECTRICAL (EX)

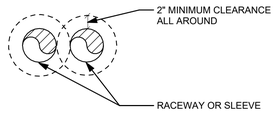
1. PANELBOARD NLGP-2LB-SEC2, LOCATED IN RM. 2L0063 ON THE 2ND FLOOR. PROVIDE A 1-POLE, 20A BREAKER FOR THE PUMP AND A 1-POLE, 20A GFIC CIRCUIT BREAKER FOR THE HEAT TRACE. ROUTE CONDUIT ABOVE THE CEILING.
2. PROVIDE 3/4" CONDUIT WITH 2-#12 & 1-#12GND. FROM THE GFIC BREAKER TO THE WEATHER PROOF IN USE RECEPTACLE FOR THE HEAT TRACE.
3. PROVIDE A LOOP OF 8 WATTS PER FT. SELF REGULATING HEAT TRACE IN THE GUTTER AND DOWN THE DOWNSPOUT AND BACK TO THE SOURCE.
4. PROVIDE EXTERIOR THERMOSTAT TO ACTIVATE THE HEAT TRACE AT 40°F AND TURN OFF AT 50°F.



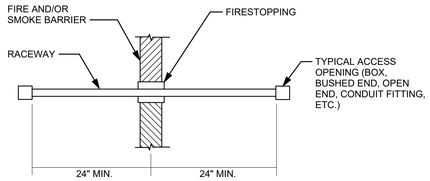
A. CORE DRILL HOLE AS PER MANUFACTURER'S RECOMMENDATIONS

2 TYPICAL EXTERIOR CONDUIT PENETRATION

NTS

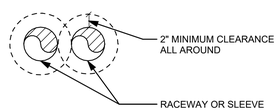


CLEARANCE REQUIREMENTS

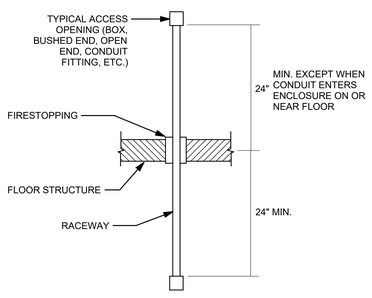


4 PENETRATION THROUGH VERTICAL FIRE AND SMOKE BARRIER DETAIL

NTS



CLEARANCE REQUIREMENTS



ELEVATION

3 PENETRATION THROUGH HORIZONTAL FIRE BARRIER DETAIL

12" = 1'-0"

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NO.	DATE	DESCRIPTION
		REVISIONS

PDC

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REPAIR PEDESTRIAN BRIDGE
HUMAN ECOLOGY BUILDING

CORNELL UNIVERSITY

HUMAN ECOLOGY BUILDING - ELECTRICAL

PROJECT NO.: 3012.0100810.000

DATE: 09/18/2026 | SCALE: As indicated

PROJ. MGR.: DJM | DRWN. BY.: SDC | CHKD. BY.: CHS

DRAWING NO.: E-101

REVISION NO.:

BID SET

PLUMBING LEGEND:

CW	DOMESTIC COLD WATER PIPING
HW	DOMESTIC HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
xxF HW	DOMESTIC HOT WATER PIPING AT xxF
(E)	EXISTING PIPING
G	NATURAL GAS PIPING
V	VENT PIPING
SAN	WASTE (SANITARY SEWER)
GSAN	GREASE WASTE (SANITARY SEWER)
SD	STORM PIPING
OD	OVERFLOW STORM PIPING
SD	STORM OR CONDENSATE PIPING
	FULL PORT VALVE
	BALL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	PIPE UP
	PIPE DOWN
	PIPE CAP
	FLOOR CLEANOUT
	CLEANOUT/WALL CLEANOUT
P-1	FIXTURE DESIGNATION
	FLOOR DRAIN
	POINT OF DISCONNECTION
	POINT OF RECONNECTION

PLUMBING GENERAL NOTES:

THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO CONVEY EXACT DIMENSIONS, SIZES, AND/OR LOCATIONS OF ALL NEW OR EXISTING ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, OR ELECTRICAL EQUIPMENT OR FEATURES, EITHER SHOWN OR INFERRED. THE INFORMATION CONTAINED IN THESE DRAWINGS SHALL BE USED AS PART OF AN ENTIRE, INTACT SET OF CONTRACT DOCUMENTS, INCLUDING ANY SEPARATE WRITTEN SPECIFICATIONS. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AT THE JOBSITE.

1. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH APPLICABLE CODES. PAY FOR ALL FEES AND ARRANGE FOR ALL INSPECTIONS.
2. ALL PLUMBING FIXTURES AND PLUMBING SYSTEMS EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. SEE FIXTURE SCHEDULE.
3. FURNISH AND INSTALL COMPLETE SYSTEMS OF STORM PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT.
4. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR 45 DEGREE TURNS, AND AT EVERY 100 FEET. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
5. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY WITH THE MECHANICAL AND THE ELECTRICAL CONTRACTORS TO AVOID CONFLICT WITH OTHER TRADES.
6. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
7. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE STORM PIPING IS INSTALLED SO THAT PROPER SLOPES WILL BE MAINTAINED.
8. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.
9. THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR WITH THE ELECTRICAL CONTRACTOR.
10. COORDINATE ALL NEW LOCATIONS, SIZES, AND ELEVATIONS OF SLEEVES THROUGH WALLS, SLABS, AND FOUNDATIONS WITH STRUCTURAL DRAWINGS AND FIELD CONDITIONS.
11. CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCES (PER N.E.C.) ABOVE AND AROUND ANY ELECTRICAL PANELS, EQUIPMENT, AND TRANSFORMERS WHEN ROUTING STORM PIPING.
12. WHERE EARTHQUAKE LOADS ARE APPLICABLE IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK, PIPING AND EQUIPMENT SUPPORTS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE WITH THE LOCAL BUILDING CODE.
13. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILINGS OR ITS SUPPORT SYSTEM.

STORM DRAIN CALCULATION

CORNELL PEDESTRIAN BRIDGE - HUMAN ECOLOGY BUILDING
ITHACA, NY

RAINFALL RATE(PRIMARY): 2.5 IN/HR
RAINFALL RATE(SECONDARY): 2.5 IN/HR

BRIDGE DECK

FLAT AREA	840	SF
PROJECTED VERTICAL AREA	245	SF
	1085	SF

ROOF VERTICAL WALLS

AREA	H (FT)	L (FT)	AREA (SF)	QUANTITY	TOTAL AREA	
SIDE WALLS	3.5	70	245.0	2	490	SF
			0.0	0	0	SF
			0.0	0	0	SF
			0.0	0	0	SF
			0.0	0	0	SF
			0.0	0	0	SF
			0.0	0	0	SF
			0.0	0	0	SF
					490	SF

PRIMARY DRAIN

RAINFALL RATE (REQUIRED CAPACITY)	28	GPM	
PROPOSED VERTICAL LEADER:	3	IN	
PROPOSED SF CAPACITY:	87	GPM	(AT RAINFALL RATE)
REQUIRED # OF VERTICAL LEADERS:	0.32		
PROPOSED # OF VERTICAL LEADERS:	1		

SECONDARY DRAIN

RAINFALL RATE (REQUIRED CAPACITY)	28	GPM	
SCUPPER LENGTH	8	IN	
SCUPPER PONDING DEPTH	2	IN	(AT RAINFALL RATE)
CAPACITY OF SCUPPER	64.4	GPM	
# OF SCUPPERS	1		
TOTAL SCUPPER CAPACITY	64	GPM	

KEYED NOTES (X)

1. PITCH STORM PIPING AT 1/8" PER FOOT.
2. HEAT TRACE EXPOSED GUTTER AND STORM PIPING DOWN TO CONNECTION TO EXISTING DOWNSPOUT. EXTEND HEAT TRACE DOWN TO INCLUDE DOWN SPOUT BOOT AND STORM PIPING ABOVE GRADE TO PREVENT FREEZING OF RUN OFF.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	CW	HW	WASTE	VENT
TD	TRENCH DRAIN	ZURN	Z883	6-INCH S WIDE DRAIN, POLYETHYLENE CHANNEL	DUCTILE IRON HEEL-PROOF SLOTTED GRATE, CLASS B	--	--	OPEN END	--

ABBREVIATIONS:

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
CO	CLEAN OUT
CP	CIRCULATING PUMP
CW	COLD WATER
DHWH	DOMESTIC HOT WATER HEATER
DN	DOWN
(E)	EXISTING
E.C.	ELECTRICAL SUB-CONTRACTOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FPHB	FREEZE PROOF HOSE BIBB
FR	FROM
G.C.	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
GSAN	GREASE SANITARY PIPING
HB	HOSE BIBB
HR	HOSE REEL
HWH	HOT WATER HEATER
HW	HOT WATER
HWR	RECIRCULATING HOT WATER
ID	INDIRECT DRAIN
LAV	LAVATORY
M.C.	MECHANICAL SUB-CONTRACTOR
MS	MOP SINK
RO	REVERSE OSMOSIS
P.C.	PLUMBING SUB-CONTRACTOR
SAN	SANITARY
SD	STORM
SK	SINK
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WATER HEATER

CODES IN EFFECT(NY):

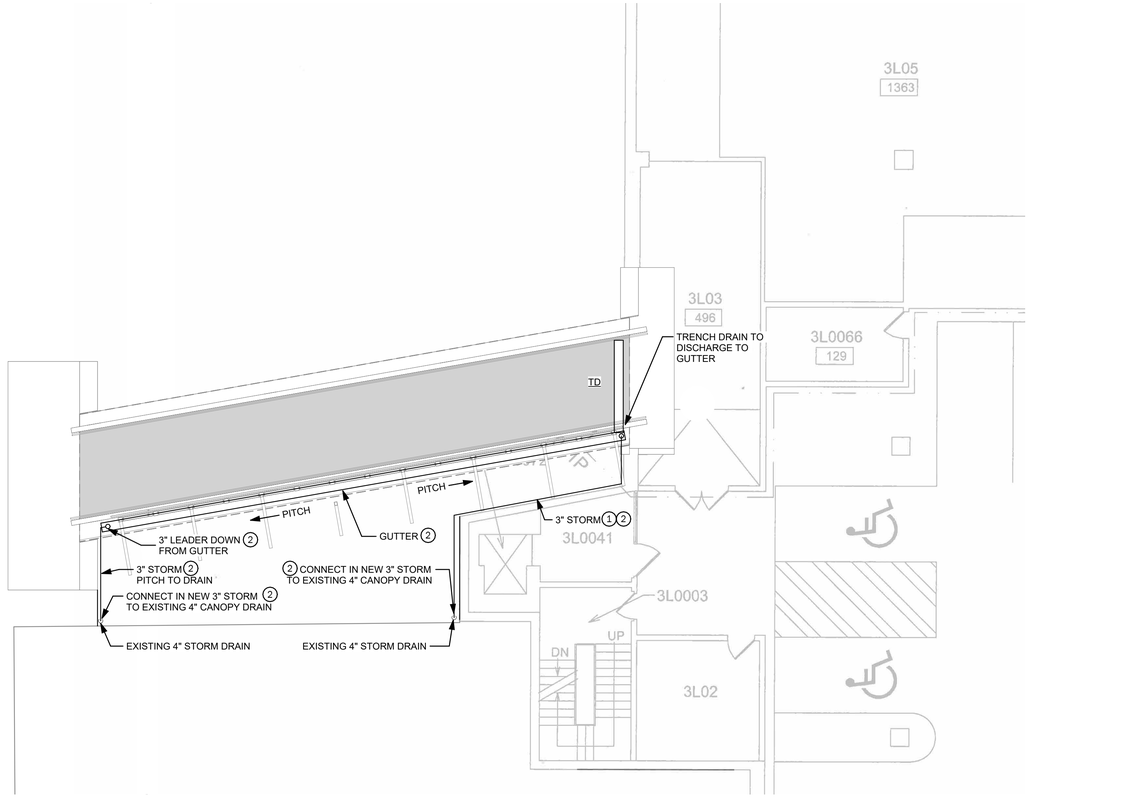
ALL WORK SHALL BE IN STRICT ACCORDANCE WITH:

- EXISTING BUILDING CODE OF NEW YORK STATE - 2025
- PLUMBING CODE OF NEW YORK STATE - 2025
- ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE - 2025

WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS, AND PRACTICES LISTED HEREIN. THEIR RESPECTIVE DATES ARE FURNISHED AS THE MINIMUM REQUIREMENTS.

CERTIFICATION

UNAUTHORIZED ALTERATION OR ADDITION TO AN ENGINEERING OR ARCHITECTURAL ITEM BEARING A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT'S SEAL IS A VIOLATION OF SECTIONS 69.5(B) AND 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. ONLY ITEMS WITH THE PROFESSIONAL ENGINEER OR ARCHITECT'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE PROFESSIONAL ENGINEER OR ARCHITECT'S ORIGINAL WORK AND OPINION.



1 BRIDGE PLUMBING PLAN
1/8" = 1'-0"

IT IS A VIOLATION OF NYS LAW FOR ANY PERSON TO ALTER A DOCUMENT IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, AND THE ORIGINAL DOCUMENT HAS BEEN STAMPED WITH THE WORDS "ALTERED BY" FOLLOWED BY THE ALTERING ENGINEER'S SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS

NO.	DATE	DESCRIPTION

PDC

STATE OF NEW YORK
DONALD JAMES MCKEON
075791
LICENSED PROFESSIONAL ENGINEER

TYLin

REPAIR PEDESTRIAN BRIDGE
HUMAN ECOLOGY BUILDING
CORNELL UNIVERSITY
PLUMBING LEGEND, NOTES AND PLAN

BID SET

PROJECT NO.:	3012.0100810.000
DATE:	09/18/2026
SCALE:	As indicated
PROJ. MGR.	DJM
DRWN. BY:	SDC
CHKD. BY:	ED
DRAWING NO:	P-001
REVISION NO.	