

GENERAL SCOPE NOTES:

- A. THE PURPOSE OF THE PROJECT IS TO REHABILITATE THE SIX ENTRY BREEZEWAYS FOR THE NORSE HALL COMPLEX. THE SCOPE OF WORK INCLUDES:
 1. REMOVE SOFFITS BELOW LEVELS 2 AND 3. REPLACE WITH NEW SOFFIT MATERIAL.
 2. REMOVE LOOSE METAL DECKING FROM BELOW SLABS.
 3. INSTALL TEMPORARY POST AND BEAM SHORING TO TEMPORARILY SUPPORT LEVELS 2 AND 3.
 4. INSTALL TEMPORARY HSS606 SHORING COLUMNS TO ALLOW REPLACEMENT OF EXISTING HSS844 COLUMNS FROM FOUNDATION TO 12' ABOVE LEVEL 3. (4 LOCATIONS). SHORES MAY BE PHASED.
 5. REMOVE ALL GUARDRAILS. REPLACE DETERIORATED POSTS. REINSTALL IN ORIGINAL LOCATIONS. (SECTIONS REQUIRED: 36 AT STAIRS, 12 AT LANDINGS, 26 AT BALCONIES)
 6. REMOVE ALL STAIR RUNS. REBARBRICATE WITH NEW STRINGERS. USING THE EXISTING COMPOSITE TREADS. REINSTALL IN ORIGINAL LOCATIONS. (36 STAIR RUNS)
 7. REPLACE STAIR HEADER CHANNELS AT LEVELS 2 AND 3. (24 LOCATIONS)
 8. REMOVE CONCRETE SLAB FROM LANDINGS BETWEEN LEVELS 2 AND 3. CLEAN AND PAINT STEEL FRAMING. ADD SPACER ANGLES. INSTALL WICKHOL DURAGRID FIBERGLASS WT-1810 GRATING.
 9. REMOVE AND REPLACE PERIMETER MC10 STEEL BALCONY CHANNELS. (26 PIECES)
 10. REMOVE AND REPLACE HSS844 INTERIOR BEAM AND COLUMN AT BREEZEWAY 4 WITH (2) NEW COLUMNS AND (3) CHANNELS AT BOTH LEVELS. TWO FOUNDATION REQUIRED.
 11. REMOVE AND REPLACE HSS844 INTERIOR BEAMS AT BREEZEWAYS 3 AND 5. (4 LOCATIONS)
 12. REPLACE DETERIORATED WOOD JOIST HANGERS WITH SS HANGERS.
 13. REPLACE ANY DETERIORATED WOOD JOISTS.
 14. REPAIR DETERIORATED CONCRETE ON LEVEL 2 AND 3 BALCONIES.
 15. INSTALL SEALANTS IN SLAB JOINTS AND CRACKS.
 16. INSTALL COVE SEALANTS AT PERIMETER OF BALCONIES.
 17. INSTALL TRAFFIC MEMBRANE ON ALL BALCONY SLABS.
- B. THE STAIRS ARE CONSTRUCTED WITH MC12 STEEL STRINGERS, TUBE STEEL RAILINGS, AND COMPOSITE TREADS. LANDINGS ARE STEEL FRAMED WITH A 3" CONCRETE SLAB ON A METAL FORM PLATE.
- C. THE BALCONIES ARE CONSTRUCTED WITH 3" SLAB ON METAL FORM DECK SUPPORTED BY 2x10 WOOD JOIST'S STEEL FRAMING INCLUDES HSS COLUMNS, MC10 PERIMETER CHANNEL, AND 19S1 TUBE BEAMS. PERIMETER GUARDRAILS ARE CONSTRUCTED WITH TUBE POSTS, TOP RAIL, AND BOTTOM RAIL, AND 1/2" BAR PICKETS.
- D. PROVIDE PROFESSIONAL SIGNAGE AND BARRICADES TO CLOSE AND PROTECT WORK AREAS TO PEDESTRIAN TRAFFIC. SIGNAGE SHALL INCLUDE DIRECTIONS TO ROUTE PEOPLE AROUND WORK AREA.
- E. PROVIDE DUST AND DEBRIS CONTROL MEASURES TO ENSURE ALL DUST AND DEBRIS GENERATED BY WORK REMAINS WITHIN WORK AREA, DOES NOT BECOME AIRBORNE, AND DOES NOT POSE HAZARDOUS OR OBJECTIONABLE CONDITIONS FOR PATRONS AND GENERAL PUBLIC.
- F. CONTRACTOR TO NOTIFY OWNER IF HAZARDOUS MATERIALS ARE ENCOUNTERED. REMOVAL OF ALL HAZARDOUS ITEMS MUST BE COORDINATED WITH OWNER.
- G. CONTRACTOR TO CLEAN UP ENTIRE WORK AREA AT THE COMPLETION OF THE PROJECT.
- H. ALL DIMENSIONS FOR NEW STEEL MEMBERS TO BE FIELD VERIFY PRIOR TO THE DEVELOPMENT OF SHOP DRAWINGS.
- I. CONTRACTOR AND NKU TO COORDINATE SUMMER CLEANING OF NORSE HALL DORMITORIES. CLEANINGS TO OCCUR IN CONJUNCTION WITH THE STAIR PROJECT. DORMITORY CLEANING WILL BE PERFORMED BY NKU.
- J. CONTRACTOR TO PROTECT EXISTING CONDITIONS WITH NO WORK PLANNED (I.E. BUILDING FACADE, DOORS AND FRAMES, ETC) FROM DAMAGE. ANY DAMAGE TO NON WORK RELATED ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

KEY NOTES:

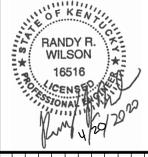
1. EXISTING STRUCTURED LEVEL BREEZEWAY OR BALCONY.
2. EXISTING SOFFIT SYSTEM BENEATH TO BE REMOVED TO INSPECT UNDERSIDE OF METAL DECKING, WOOD JOIST MEMBERS, AND JOIST HANGERS. CONTRACTOR TO COORDINATE TEMPORARY REMOVAL OF SECURITY SYSTEM AND RELOCATION OF CONDUIT WITH THE OWNER.
3. CONTRACTOR AND ENGINEER TO SURVEY ELEVATED CONCRETE SLAB FOR CONCRETE DETERIORATION. AS A UNIT PRICE REPAIR, PERFORM A SHALLOW CONCRETE SLAB REPAIR OR FULL CONCRETE SLAB REPLACEMENT. REFER TO DETAIL 1, OR 2 ON DRAWING 301.
4. CONTRACTOR AND ENGINEER TO SURVEY AND CUT DOWN ALL DETERIORATED AREAS OF METAL DECK ONCE SOFFIT SYSTEM HAS BEEN REMOVED.
5. CONTRACTOR AND ENGINEER TO SURVEY SOFFIT AREA FOR DETERIORATED JOIST HANGERS. AS A UNIT PRICE REPAIR, REMOVE AND REPLACE DETERIORATED JOIST HANGERS WITH A NEW GALVANIZED STEEL JOIST HANGER USING GALVANIZED STEEL NAILS. REFER TO SPECIFICATION SECTION 051200.
6. REMOVE AND REPLACE ALL COVE SEALANT JOINTS AT WALL, COLUMNS, AND VERTICAL SURFACES. REFER TO DETAILS 2 ON DRAWING 401.
7. EXISTING STRUCTURED FLOOR SLAB. INSTALL A NEW WATERPROOFING MEMBRANE SYSTEM WITH A VAPOR BARRIER. REFER TO DETAILS ON DRAWING 401 AND SPECIFICATION SECTION 071800.
8. SLAB WATERPROOFING MEMBRANE SYSTEM TO TERMINATE ONTO COVE SEALANT AT ALL VERTICAL SURFACES. REFER TO DETAIL 4 ON DRAWING 401.
9. CONTRACTOR AND ENGINEER TO SURVEY WOOD JOIST MEMBERS FOR SIGNS OF DETERIORATION. AS A UNIT PRICE REPAIR, REMOVE AND REPLACE WOOD JOIST MEMBERS WITH A NEW PRESSURE TREATED MEMBER. SIZE TO MATCH THE EXISTING WOOD JOIST. REFER TO SPECIFICATION SECTION 061120.
10. CONTRACTOR TO INSTALL A NEW SOFFIT SYSTEM IN ALL BREEZEWAYS AND BALCONY AREAS. BASIS OF DESIGN IS VINYL SOFFIT SYSTEM. COORDINATE WITH THE OWNER TO REINSTALL SECURITY SYSTEM AND OTHER ELECTRICAL EQUIPMENT.
11. OWNER TO SELECT AND PROVIDE NEW LIGHTING FIXTURES TO BE INSTALLED BY THE CONTRACTOR DURING REINSTALLATION OF SOFFIT SYSTEM.

LEGEND:

NEW MEMBRANE SYSTEM



1
 101
 NORSE HALL PLAN
 3/32"=1'-0"
 NORTH



ISSUED FOR:	OWNER REVIEW
DATE:	NOV 11 2020
BY:	J.A. LACY
CHECKED BY:	Z.S. WOLCOTT
APPROVED BY:	W.M. JUDD

NKU

NORSE HALL
 EXTERIOR REPAIRS

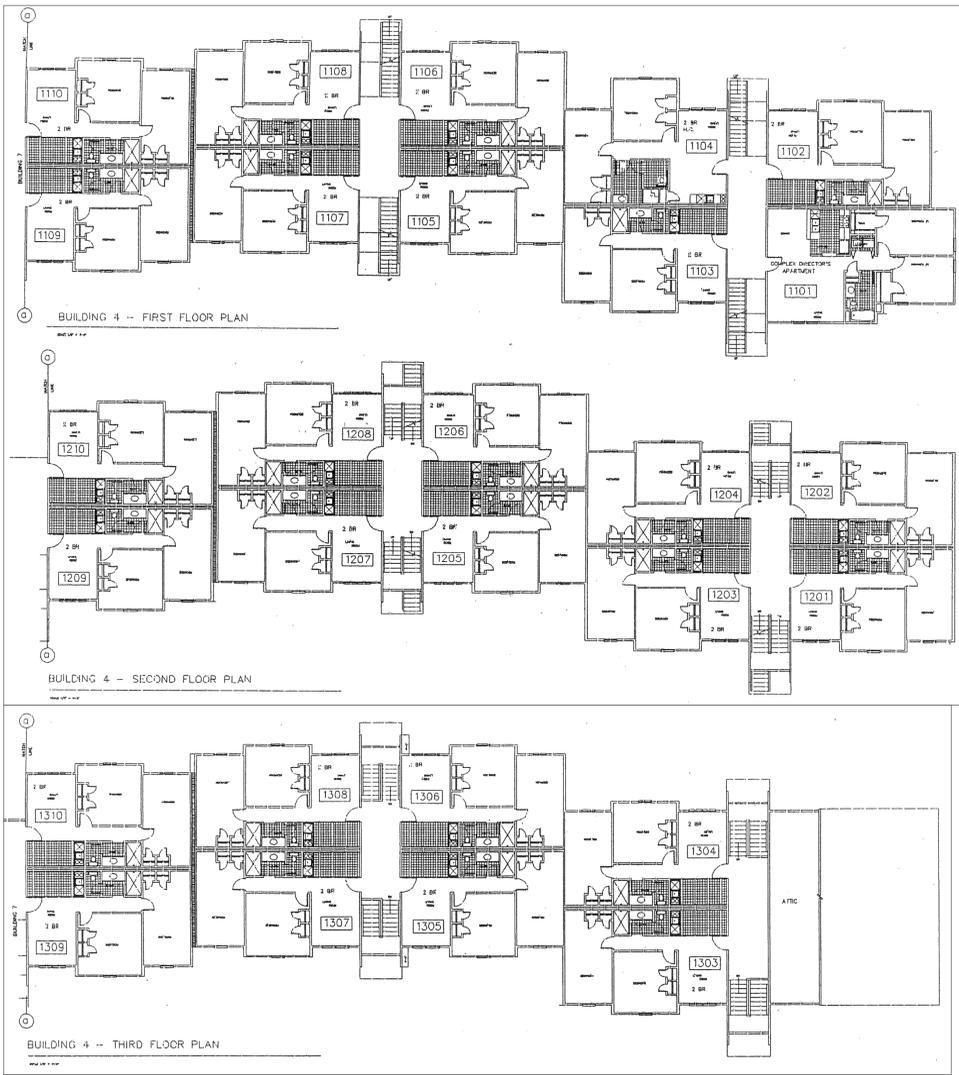
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JOB NUMBER
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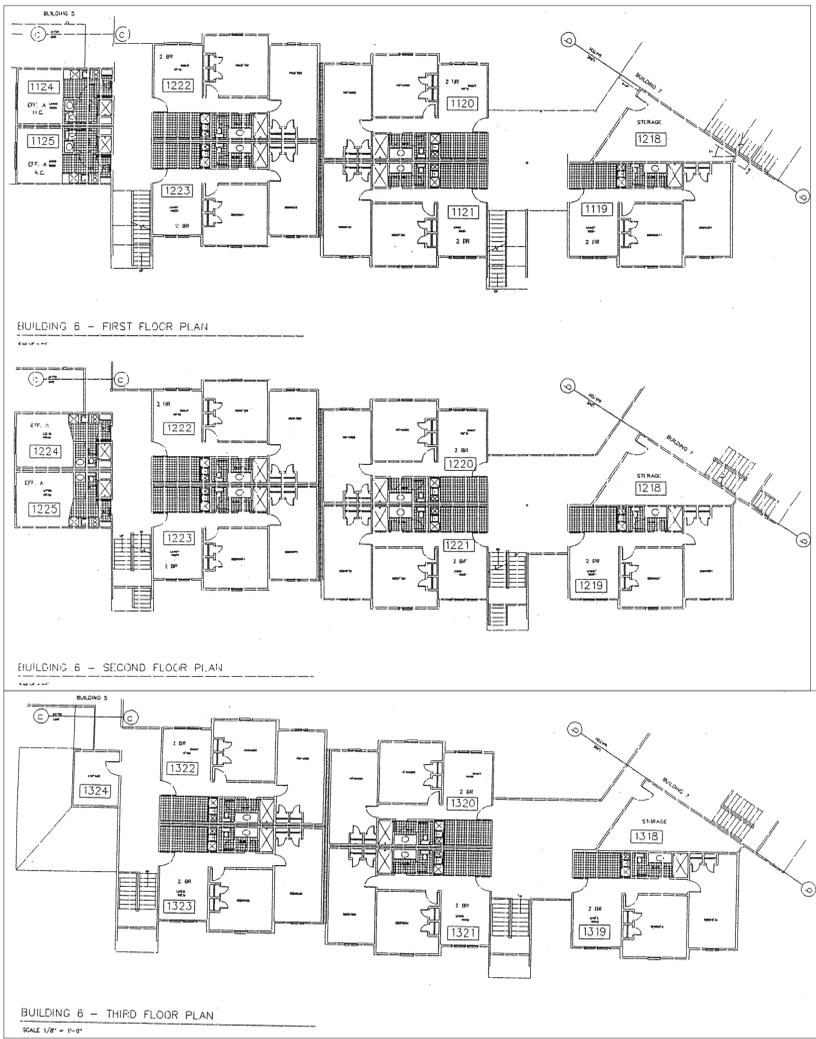
DATE
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DRAWING NUMBER
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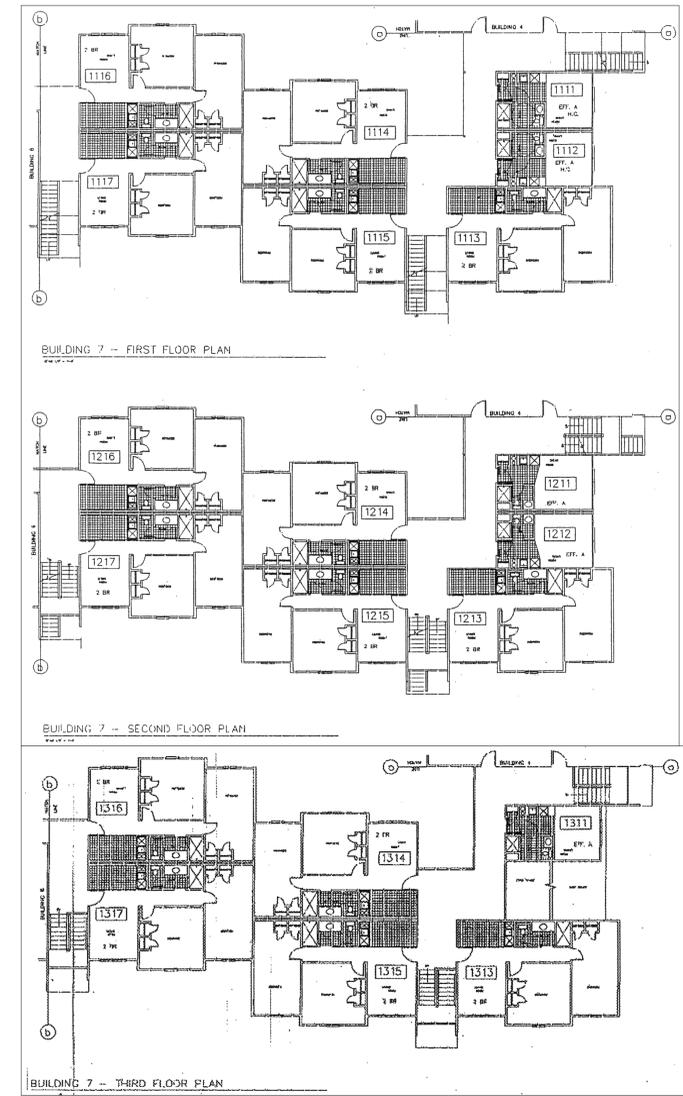
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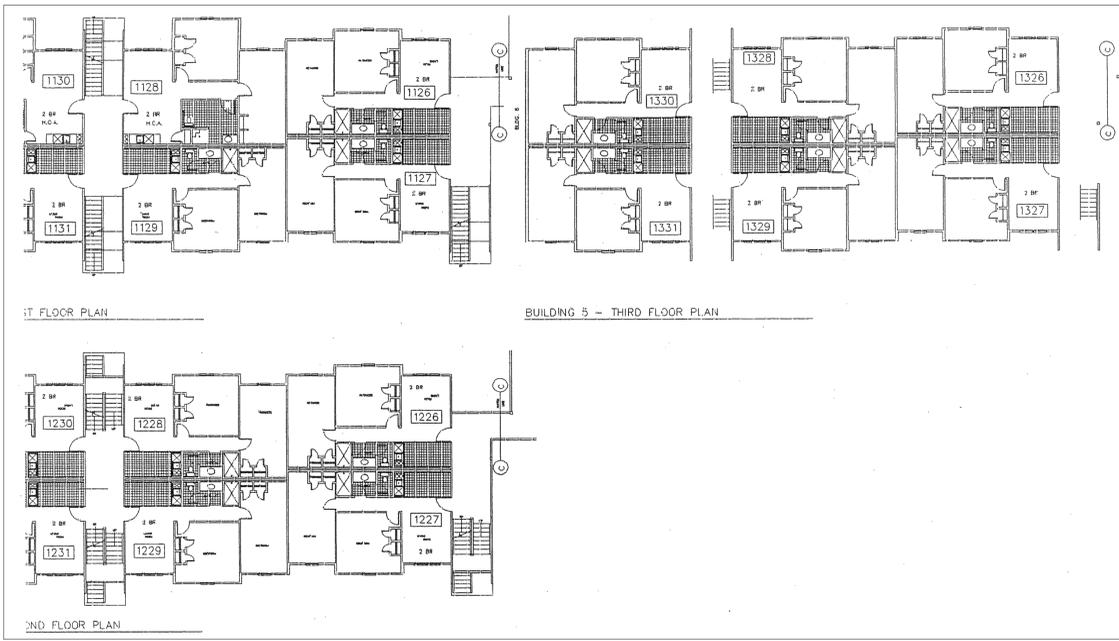
A BUILDING 4 PLANS
 102 NTS



C BUILDING 6 PLANS
 102 NTS



D BUILDING 7 PLANS
 102 NTS



B BUILDING 5 PLANS
 102 NTS

STATE OF KENTUCKY
 RANDY R. WILSON
 16516
 LICENSED PROFESSIONAL ARCHITECT
 12/19/2020

REVISIONS	
ISSUES	
1	AS SHOWN
2	AMENDMENTS

OWNER REVIEW
 DATE SET

DRAWN BY: J.A. LACY
 ENGINEER: Z.S. WOLCOTT
 CHECKED BY: W.M. JUDD

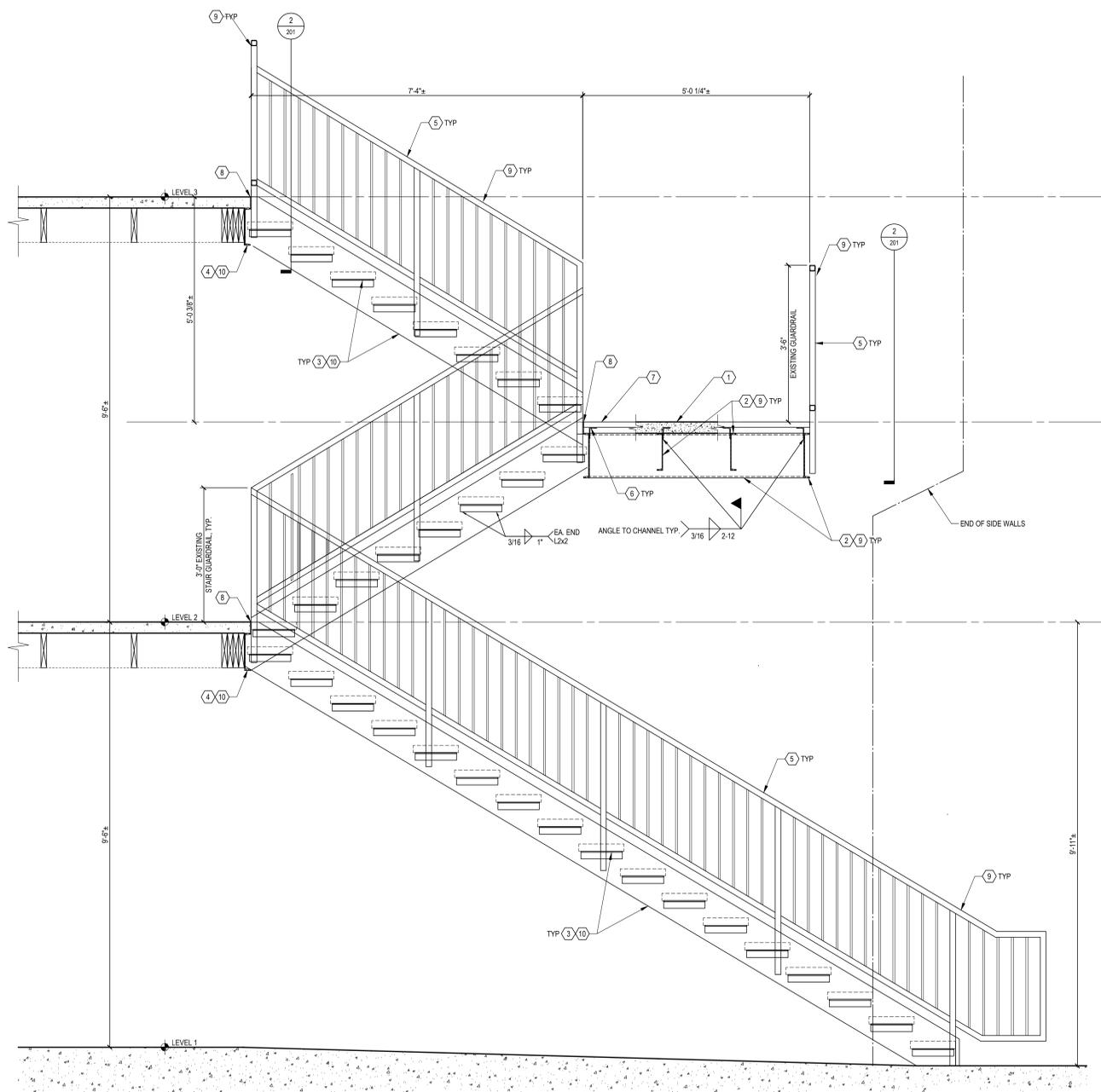
NKU
 NORSE HALL
 EXTERIOR REPAIRS

DRAWING TITLE
 NORSE HALL PLAN
 JOB NUMBER
 20111.00
 DATE
 APRIL 2020
 DRAWING NUMBER

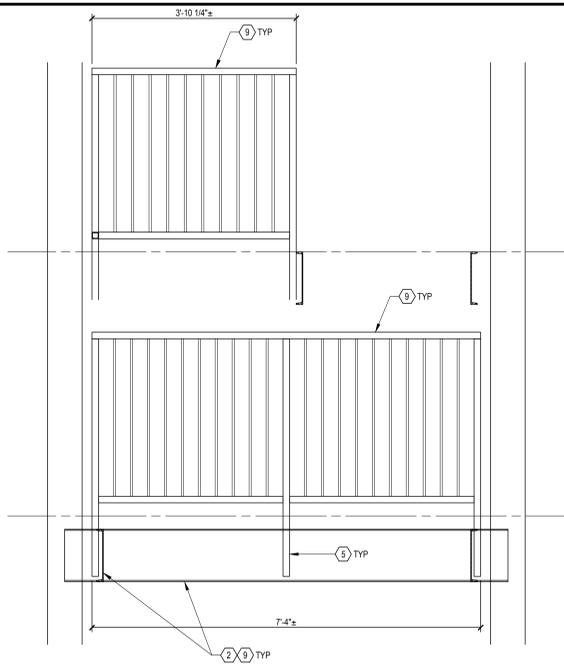
REFERENCE PLANS

KEY NOTES:

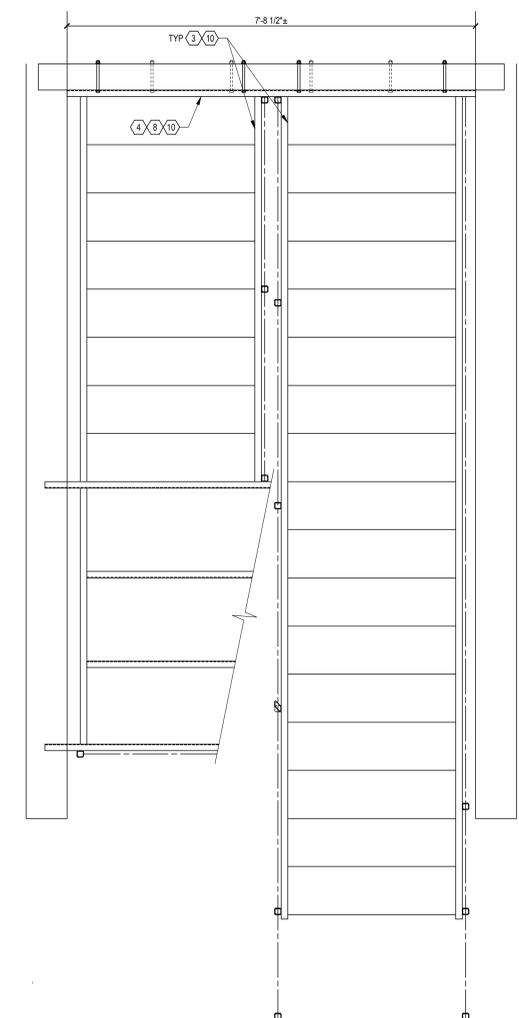
- EXISTING DETERIORATED STAIR LANDING. REMOVE THE EXISTING CONCRETE AND STEEL FORM PLATE. INSTALL A NEW LANDING SYSTEM PER NOTES BELOW. REFER TO SPECIFICATION SECTION 051200 AND 099100.
- EXISTING SUPPORT CHANNELS AT LANDINGS TO REMAIN. PREPARE ALL SURFACES TO SSPC-SP 3 CONDITION AND INSTALL A HIGH PERFORMANCE COATING SYSTEM. REFER TO SPECIFICATION SECTION 099100.
- EXISTING STAIR STRINGERS TO BE REPLACED WITH NEW MC 12x10.6 STRINGERS WITH L2x2x1/4 TREAD SUPPORT ANGLES. GALVANIZE FABRICATED STRINGER ASSEMBLY. EXISTING FIBERGLASS TREADS TO BE SALVAGED AND RE-INSTALLED ON NEW STRINGERS. AFTER ERECTION, CONTRACTOR TO TOUCH UP GALVANIZED AREAS DAMAGED DURING INSTALLATION. REFER TO SPECIFICATION SECTION 051200.
- EXISTING STAIR SUPPORT CHANNEL AT SLAB EDGE, BOLTED TO THE WOOD GIRDER. REPLACE STEEL CHANNEL WITH A NEW GALVANIZED MC 10x4.4 BOLTED TO THE WOOD GIRDER WITH (2) 5/8" DIA. THROUGH BOLTS AT 5' O.C., PLACED 4" INSIDE EACH STAIR STRINGER. REFER TO SPECIFICATION SECTION 051200.
- EXISTING STAIR GUARDRAIL SYSTEM TO BE SALVAGED, REPAIRED, AND RE-INSTALLED. REPLACE DETERIORATED POSTS WITH HSS 1 1/2x3/16. SHOP WELD POSTS TO STAIR STRINGERS. GALVANIZE STRINGER/POST ASSEMBLY. WELD SALVAGED RAILING SYSTEM TO POSTS AFTER GALVANIZING. PAINT POSTS TO TOP OF STRINGER. REFER TO DETAIL 7 ON DRAWING 201 FOR RAIL POST REPAIR.
- CONTRACTOR TO INSTALL A NEW GALVANIZED 3"x2"x1/4" LVL ANGLE ON TO EXISTING LANDING SUPPORT CHANNELS TO SUPPORT NEW GRATING (4 ANGLES PER LANDING). REFER TO SPECIFICATION SECTION 051200.
- CONTRACTOR TO INSTALL NEW LANDING GRATING. BASIS OF DESIGN IS MCNICHOLES FIBERGLASS GRATING MS-WT-1810-GUARDRD OR APPROVED EQUIVALENT. INSTALL GRATING PER MANUFACTURERS RECOMMENDATIONS AND STANDARDS.
- EXISTING DETERIORATED SLAB CLOSURE ANGLE. CONTRACTOR TO REMOVE DETERIORATED ANGLE AND INSTALL A NEW 1/4" THICK CLOSURE PLATE SHOP-WELDED TO THE TOP OF THE NEW CHANNEL. GALVANIZE THE CHANNEL/PLATE ASSEMBLY. REFER TO SPECIFICATION SECTION 099100.
- STEEL ELEMENT TO REMAIN OR BE SALVAGED. CLEAN STEEL TO SSPC-SP3 CONDITION AND INSTALL A HIGH PERFORMANCE COATING SYSTEM. REFER TO SPECIFICATION SECTION 099100.
- CONTRACTOR TO REVIEW NEWLY INSTALL GALVANIZED STEEL FOR DEFECTS AND REPAIR ANY DAMAGES WITH A COLD GALVANIZING COATING SYSTEM. REFER TO SPECIFICATION SECTION 051200.



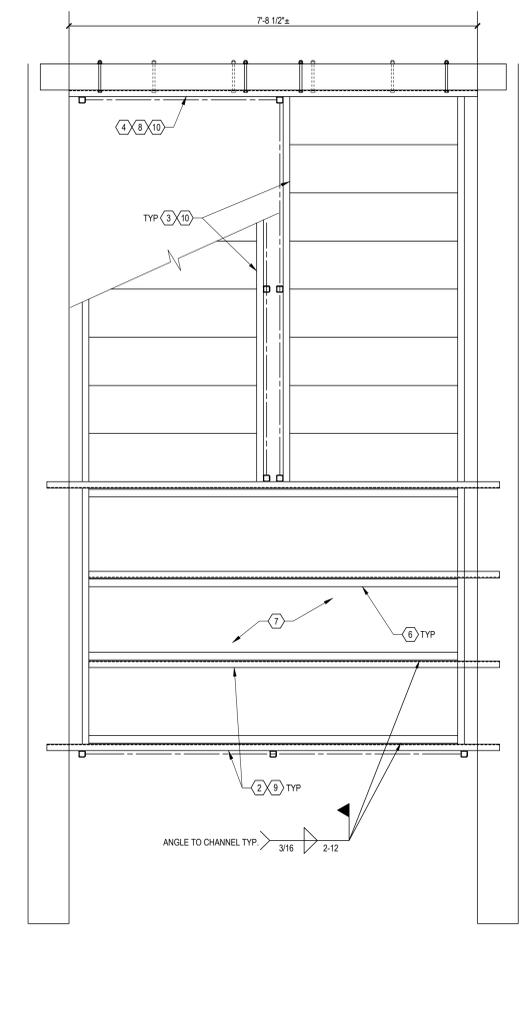
1 TYPICAL STAIR SECTION
 201 3/4" = 1'-0"



2 GUARDRAIL ELEVATION
 201 3/4" = 1'-0"



3 STAIR PLAN LEVEL 1 TO 2
 201 3/4" = 1'-0"



4 STAIR PLAN LEVEL 2 TO 3
 201 3/4" = 1'-0"



NO.	DATE	DESCRIPTION
1	04/20/20	ISSUE FOR CONSTRUCTION
2	04/20/20	ISSUE FOR CONSTRUCTION

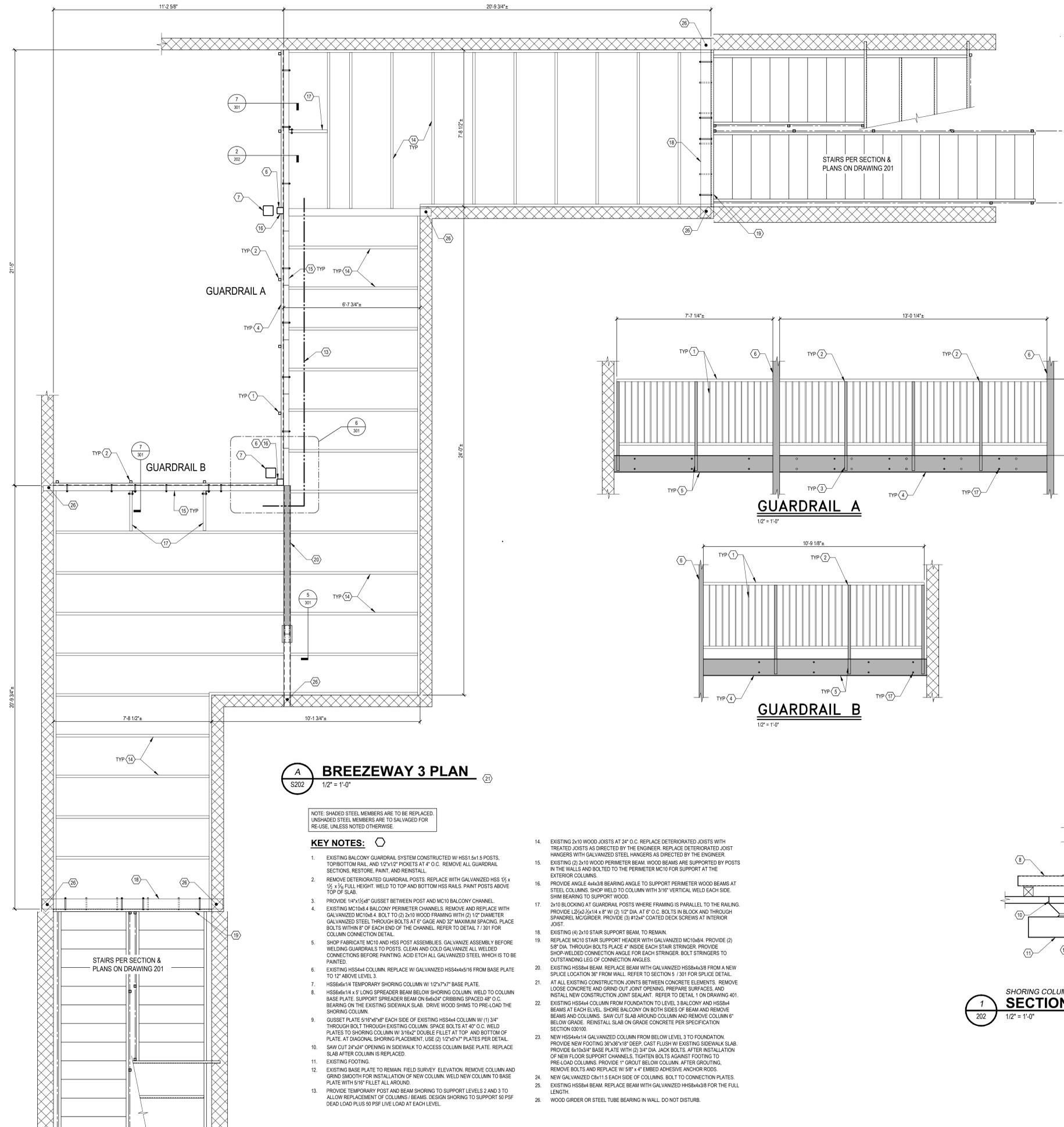
DRAWN BY: J.A. LACY
 ENGINEER: Z.S. WOLCOTT
 CHECKED BY: W.M. JUDD



NORSE HALL
 EXTERIOR REPAIRS

DRAWING TITLE
 STAIR REPAIR PLAN

JOB NUMBER: 20111.00
 DATE: APRIL 2020
 DRAWING NUMBER:



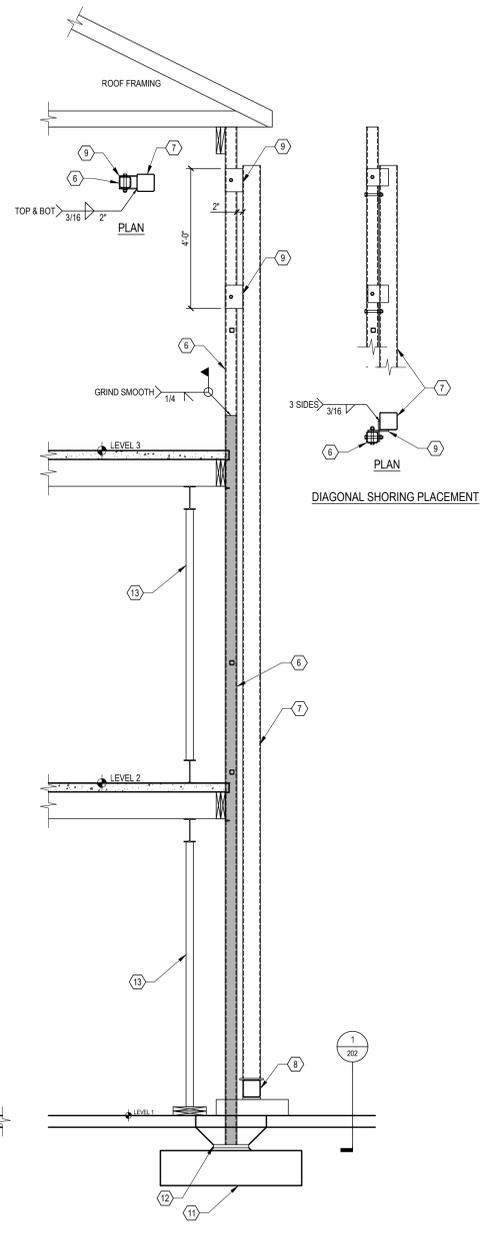
A BREEZEWAY 3 PLAN
 S202 1/2" = 1'-0"

NOTE: SHADED STEEL MEMBERS ARE TO BE REPLACED. UNSHADED STEEL MEMBERS ARE TO BE SALVAGED FOR RE-USE, UNLESS NOTED OTHERWISE.

KEY NOTES:

- EXISTING BALCONY GUARDRAIL SYSTEM CONSTRUCTED W/ HSS1 5x1 5 POSTS, TOP/BOTTOM RAIL, AND 1/2"x12" PICKETS AT 4" O.C. REMOVE ALL GUARDRAIL SECTIONS, RESTORE, PAINT, AND REINSTALL.
- REMOVE DETERIORATED GUARDRAIL POSTS. REPLACE WITH GALVANIZED HSS 1 1/2 x 1/2 x 1/2 FULL HEIGHT. WELD TO TOP AND BOTTOM HSS RAILS. PAINT POSTS ABOVE TOP OF SLAB.
- PROVIDE 1/4"x1/4"x8" GUSSET BETWEEN POST AND MC10 BALCONY CHANNEL.
- EXISTING MC10x8.4 BALCONY PERIMETER CHANNELS. REMOVE AND REPLACE WITH GALVANIZED MC10x8.4. BOLT TO (2) 2x10 WOOD FRAMING WITH (2) 1/2" DIAMETER GALVANIZED STEEL THROUGH BOLTS AT 6" GAGE AND 32" MAXIMUM SPACING. PLACE BOLTS WITHIN 6" OF EACH END OF THE CHANNEL. REFER TO DETAIL 7/301 FOR COLUMN CONNECTION DETAIL.
- SHOP FABRICATE MC10 AND HSS POST ASSEMBLIES. GALVANIZE ASSEMBLY BEFORE WELDING GUARDRAILS TO POSTS. CLEAN AND COLD GALVANIZE ALL WELDED CONNECTIONS BEFORE PAINTING. ACID ETCH ALL GALVANIZED STEEL WHICH IS TO BE PAINTED.
- EXISTING HSS4x4 COLUMN. REPLACE W/ GALVANIZED HSS4x4x5/16 FROM BASE PLATE TO 12' ABOVE LEVEL 3.
- HSS6x14 TEMPORARY SHORING COLUMN W/ 12"x7"x7" BASE PLATE.
- HSS6x14 x 5' LONG SPREADER BEAM BELOW SHORING COLUMN. WELD TO COLUMN BASE PLATE. SUPPORT SPREADER BEAM ON 6x6x24 CRIBBING SPACED 48" O.C. BEARING ON THE EXISTING SIDEWALK SLAB. DRIVE WOOD SHIMS TO PRE-LOAD THE SHORING COLUMN.
- GUSSET PLATE 5/16"x6"x8" EACH SIDE OF EXISTING HSS4x4 COLUMN W/ (1) 3/4" THROUGH BOLT THROUGH EXISTING COLUMN. SPACE BOLTS AT 40" O.C. WELD PLATES TO SHORING COLUMN W/ 3/16"x2" DOUBLE FILLET AT TOP AND BOTTOM OF PLATE. AT DIAGONAL SHORING PLACEMENT, USE (2) 1/2"x7"x7" PLATES PER DETAIL.
- SAW CUT 24"x24" OPENING IN SIDEWALK TO ACCESS COLUMN BASE PLATE. REPLACE SLAB AFTER COLUMN IS REPLACED.
- EXISTING FOOTING.
- EXISTING BASE PLATE TO REMAIN. FIELD SURVEY ELEVATION. REMOVE COLUMN AND GRIND SMOOTH FOR INSTALLATION OF NEW COLUMN. WELD NEW COLUMN TO BASE PLATE WITH 5/16" FILLET ALL AROUND.
- PROVIDE TEMPORARY POST AND BEAM SHORING TO SUPPORT LEVELS 2 AND 3 TO ALLOW REPLACEMENT OF COLUMNS / BEAMS. DESIGN SHORING TO SUPPORT 50 PSF DEAD LOAD PLUS 50 PSF LIVE LOAD AT EACH LEVEL.

- EXISTING 2x10 WOOD JOISTS AT 24" O.C. REPLACE DETERIORATED JOISTS WITH TREATED JOISTS AS DIRECTED BY THE ENGINEER. REPLACE DETERIORATED JOIST HANGERS WITH GALVANIZED STEEL HANGERS AS DIRECTED BY THE ENGINEER.
- EXISTING (2) 2x10 WOOD PERIMETER BEAM. WOOD BEAMS ARE SUPPORTED BY POSTS IN THE WALLS AND BOLTED TO THE PERIMETER MC10 FOR SUPPORT AT THE EXTERIOR COLUMNS.
- PROVIDE ANGLE 4x4x3/8 BEARING ANGLE TO SUPPORT PERIMETER WOOD BEAMS AT STEEL COLUMNS. SHOP WELD TO COLUMN WITH 3/16" VERTICAL WELD EACH SIDE. SHIM BEARING TO SUPPORT WOOD.
- 2x10 BLOCKING AT GUARDRAIL POSTS WHERE FRAMING IS PARALLEL TO THE RAILING. PROVIDE L2x2x5/16 x 8" W/ (2) 1/2" DIA. AT 6" O.C. BOLTS IN BLOCK AND THROUGH SPANDREL MC-GROVER. PROVIDE (3) #12x4" COATED DECK SCREWS AT INTERIOR JOIST.
- EXISTING (4) 2x10 STAIR SUPPORT BEAM. TO REMAIN.
- REPLACE MC10 STAIR SUPPORT HEADER WITH GALVANIZED MC10x8.4. PROVIDE (2) 5/8" DIA. THROUGH BOLTS PLACE 4" INSIDE EACH STAIR STRINGER. PROVIDE SHOP-WELDED CONNECTION ANGLE FOR EACH STRINGER. BOLT STRINGERS TO OUTSTANDING LEG OF CONNECTION ANGLES.
- EXISTING HSS8x4 BEAM. REPLACE BEAM WITH GALVANIZED HSS8x4x8 FROM A NEW SPURCE LOCATION 38" FROM WALL. REFER TO SECTION 5/1301 FOR SPURCE DETAIL.
- AT ALL EXISTING CONSTRUCTION JOINTS BETWEEN CONCRETE ELEMENTS. REMOVE LOOSE CONCRETE AND GRIND OUT JOINT OPENING. PREPARE SURFACES, AND INSTALL NEW CONSTRUCTION JOINT SEALANT. REFER TO DETAIL 1 ON DRAWING 401.
- EXISTING HSS4x4 COLUMN FROM FOUNDATION TO LEVEL 3 BALCONY AND HSS8x4 BEAMS AT EACH LEVEL. SHORE BALCONY ON BOTH SIDES OF BEAM AND REMOVE BEAMS AND COLUMNS. SAW CUT SLAB AROUND COLUMN AND REMOVE COLUMN 6" BELOW GRADE. REINSTALL SLAB ON GRADE CONCRETE PER SPECIFICATION SECTION 03100.
- NEW HSS4x4x14 GALVANIZED COLUMN FROM BELOW LEVEL 3 TO FOUNDATION. PROVIDE NEW FOOTING 36"x36"x18" DEEP. CAST FLUSH W/ EXISTING SIDEWALK SLAB. PROVIDE 6"x10x4" BASE PLATE WITH (2) 3/4" DIA. JACK BOLTS. AFTER INSTALLATION OF NEW FLOOR SUPPORT CHANNELS, TIGHTEN BOLTS AGAINST FOOTING TO PRE-LOAD COLUMNS. PROVIDE 1" GROUT BELOW COLUMN. AFTER GROUTING, REMOVE BOLTS AND REPLACE W/ 5/8" x 4" EMBED ADHESIVE ANCHOR RODS.
- NEW GALVANIZED 2x11.5 EACH SIDE OF COLUMNS. BOLT TO CONNECTION PLATES.
- EXISTING HSS8x4 BEAM. REPLACE BEAM WITH GALVANIZED HSS8x4x8 FOR THE FULL LENGTH.
- WOOD GIRDER OR STEEL TUBE BEARING IN WALL. DO NOT DISTURB.



1 SECTION
 S202 1/2" = 1'-0"

2 SECTION
 S202 1/2" = 1'-0"



ISSUE	1	2
DATE	08/20/20	08/20/20
BY	J.A. LACY	J.A. LACY
CHECKED BY	Z.S. WOLCOTT	Z.S. WOLCOTT
APPROVED BY	W.M. JUDD	W.M. JUDD

DRAWN BY: J.A. LACY
 ENGINEER: Z.S. WOLCOTT
 CHECKED BY: W.M. JUDD

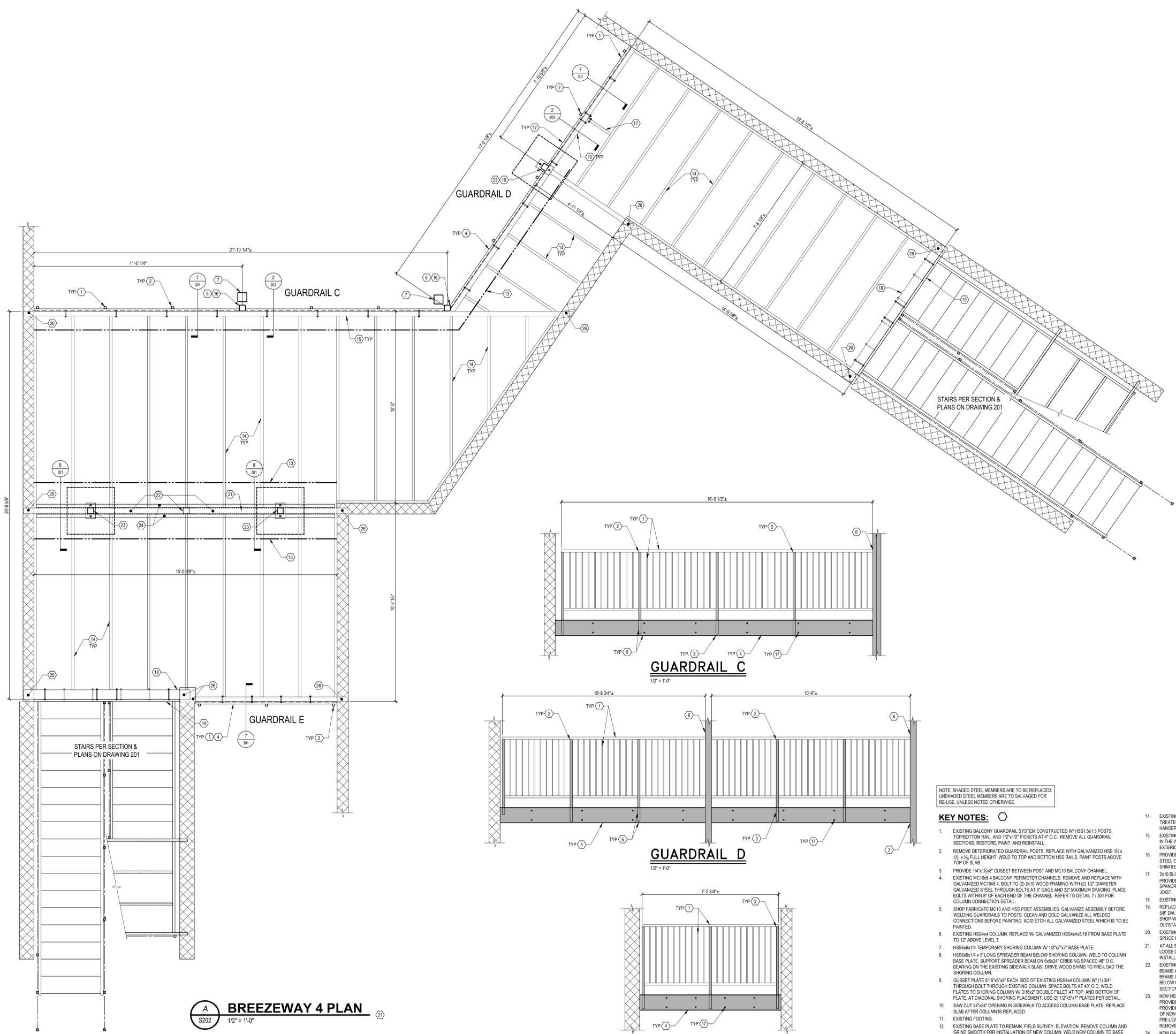


NORSE HALL
 EXTERIOR REPAIRS

DRAWING TITLE
 BREEZEWAY 3 PLAN

JOB NUMBER DATE
 20111.00 APRIL 2020

DRAWING NUMBER
 202



NOTE: SHADED STEEL MEMBERS ARE TO BE REPLACED. UNSHADED STEEL MEMBERS ARE TO BE SALVAGED FOR RE-USE, UNLESS NOTED OTHERWISE.

KEY NOTES:

- EXISTING BALCONY GUARDRAIL SYSTEM CONSTRUCTED W/ HSS 5x15 POSTS, TOP/BOTTOM RAIL, AND 1/2"x1/2" PICKETS AT 4" O.C. REMOVE ALL GUARDRAIL SECTIONS, RESTORE, PAINT, AND REINSTALL.
- REMOVE DETERIORATED GUARDRAIL POSTS. REPLACE WITH GALVANIZED HSS 1/2" x 1/2" FULL HEIGHT. WELD TO TOP AND BOTTOM HSS RAILS. PAINT POSTS ABOVE TOP OF SLAB.
- PROVIDE 1/4"x1/2"x8" GUSSET BETWEEN POST AND MC10 BALCONY CHANNEL.
- EXISTING MC10x8.4 BALCONY PERIMETER CHANNELS. REMOVE AND REPLACE WITH GALVANIZED MC10x8.4 BOLT TO (2) 2x10 WOOD FRAMING WITH (2) 1/2" DIAMETER GALVANIZED STEEL THROUGH BOLTS AT 16" GAGE AND 32" MAXIMUM SPACING. PLACE BOLTS WITHIN 8" OF EACH END OF THE CHANNEL. REFER TO DETAIL 7/301 FOR COLUMN CONNECTION DETAIL.
- SHOP FABRICATE MC10 AND HSS POST ASSEMBLIES. GALVANIZE ASSEMBLY BEFORE WELDING GUARDRAILS TO POSTS. CLEAN AND COOL GALVANIZE ALL WELDED CONNECTIONS BEFORE PAINTING. ACID ETCH ALL GALVANIZED STEEL WHICH IS TO BE PAINTED.
- EXISTING HSS8x4 COLUMN. REPLACE W/ GALVANIZED HSS4x4x16 FROM BASE PLATE TO 12" ABOVE LEVEL 3.
- HSS6x14 TEMPORARY SHORING COLUMN W/ 12"x7"x7" BASE PLATE.
- HSS6x14 x 9" LONG SPREADER BEAM BELOW SHORING COLUMN. WELD TO COLUMN BASE PLATE. SUPPORT SPREADER BEAM ON 6x6x24 CRIBBING SPACED 48" O.C. BEARING ON THE EXISTING SIDEWALK SLAB. DRIVE WOOD SHIMS TO PRE-LOAD THE SHORING COLUMN.
- GUSSET PLATE 5/16"x6"x8" EACH SIDE OF EXISTING HSS4x4 COLUMN W/ (1) 3/4" THROUGH BOLT THROUGH EXISTING COLUMN. SPACE BOLTS AT 40" O.C. WELD PLATES TO SHORING COLUMN W/ 3/16x2" DOUBLE FILLET AT TOP AND BOTTOM OF PLATE. AT DIAGONAL SHORING PLACEMENT USE (2) 1/2"x7"x7" PLATES PER DETAIL.
- SAW OUT 24"x24" OPENING IN SIDEWALK TO ACCESS COLUMN BASE PLATE. REPLACE SLAB AFTER COLUMN IS REPLACED.
- EXISTING FOOTING.
- EXISTING BASE PLATE TO REMAIN. FIELD SURVEY ELEVATION. REMOVE COLUMN AND GRIND SMOOTH FOR INSTALLATION OF NEW COLUMN. WELD NEW COLUMN TO BASE PLATE WITH 5/16" FILLET ALL AROUND.
- PROVIDE TEMPORARY POST AND BEAM SHORING TO SUPPORT LEVELS 2 AND 3 TO ALLOW REPLACEMENT OF COLUMNS / BEAMS. DESIGN SHORING TO SUPPORT 50 PSF DEAD LOAD PLUS 50 PSF LIVE LOAD AT EACH LEVEL.
- EXISTING 2x10 WOOD JOISTS AT 24" O.C. REPLACE DETERIORATED JOISTS WITH TREATED JOISTS AS DIRECTED BY THE ENGINEER. REPLACE DETERIORATED JOIST HANGERS WITH GALVANIZED STEEL HANGERS AS DIRECTED BY THE ENGINEER.
- EXISTING (2) 2x10 WOOD PERIMETER BEAM. WOOD BEAMS ARE SUPPORTED BY POSTS IN THE WALLS AND BOLTED TO THE PERIMETER MC10 FOR SUPPORT AT THE EXTERIOR COLUMNS.
- PROVIDE ANGLE 4x4x8 BEARING ANGLE TO SUPPORT PERIMETER WOOD BEAMS AT STEEL COLUMNS. SHOP WELD TO COLUMN WITH 3/16" VERTICAL WELD EACH SIDE. SHIM BEARING TO SUPPORT WOOD.
- 2x10 BLOCKING AT GUARDRAIL POSTS WHERE FRAMING IS PARALLEL TO THE RAILING. PROVIDE 2x2x2x1/4 x 8" W/ (2) 1/2" DIA. AT 16" O.C. BOLTS IN BLOCK AND THROUGH SPANDREL WOODWORK. PROVIDE (3) #10x4" COATED DECK SCREWS AT INTERIOR JOIST.
- EXISTING (4) 2x10 STAIR SUPPORT BEAM. TO REMAIN.
- REPLACE MC10 STAIR SUPPORT HEADER WITH GALVANIZED MC10x8.4 PROVIDE (2) 8" DIA. THROUGH BOLTS PLACE 4" INSIDE EACH STAIR STRINGER. PROVIDE SHOP-WELDED CONNECTION ANGLE FOR EACH STRINGER. BOLT STRINGERS TO OUTSTANDING LEG OF CONNECTION ANGLES.
- EXISTING HSS8x4 BEAM. REPLACE BEAM WITH GALVANIZED HSS8x4x8 FROM A NEW SPLICE LOCATION 30" FROM WALL. REFER TO SECTION 5 / 301 FOR SPLICE DETAIL.
- AT ALL EXISTING CONSTRUCTION JOINTS BETWEEN CONCRETE ELEMENTS, REMOVE LOOSE CONCRETE AND GRIND OUT JOINT OPENING. PREPARE SURFACES, AND INSTALL NEW CONSTRUCTION JOINT SEALANT. REFER TO DETAIL 1 ON DRAWING 401.
- EXISTING HSS4x4 COLUMN FROM FOUNDATION TO LEVEL 3 BALCONY AND HSS8x4 BEAMS AT EACH LEVEL. SHORE BALCONY ON BOTH SIDES OF BEAM AND REMOVE BEAMS AND COLUMNS. SAW CUT SLAB AROUND COLUMN AND REMOVE COLUMN 6" BELOW GRADE. REINSTALL SLAB ON GRADE CONCRETE PER SPECIFICATION SECTION 030100.
- NEW HSS4x4x14 GALVANIZED COLUMN FROM BELOW LEVEL 3 TO FOUNDATION. PROVIDE NEW FOOTING 36"x36"x18" DEEP. CAST FLUSH W/ EXISTING SIDEWALK SLAB. PROVIDE 5/16"x24" BASE PLATE WITH (2) 3/4" DIA. JACK BOLTS. AFTER INSTALLATION OF NEW FLOOR SUPPORT CHANNELS, TIGHTEN BOLTS AGAINST FOOTING TO PRE-LOAD COLUMNS. PROVIDE 1" GROUT BELOW COLUMN. AFTER GROUTING, REMOVE BOLTS AND REPLACE W/ 5/8" x 4" EMBED ADHESIVE ANCHOR RODS.
- NEW GALVANIZED 2x8x11.5 EACH SIDE OF COLUMNS. BOLT TO CONNECTION PLATES.
- EXISTING HSS8x4 BEAM. REPLACE BEAM WITH GALVANIZED HSS8x4x8 FOR THE FULL LENGTH.
- WOOD GIRDER OR STEEL TUBE BEARING IN WALL. DO NOT DISTURB.

BREEZEWAY 4 PLAN
 1/2" = 1'-0"

ISSUE	NO.	DATE	DESCRIPTION
1	1	04/20/20	OWNER REVIEW AND SET
2	2	04/20/20	

DRAWN BY: J.A. LACY
 ENGINEER: Z.S. WOLCOTT
 CHECKED BY: W.M. JUDD



NORSE HALL EXTERIOR REPAIRS

DRAWING TITLE: BREEZEWAY 4 PLAN

JOB NUMBER: 20111.00
 DATE: APRIL 2020
 DRAWING NUMBER:

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STATE OF OHIO
 RANDY R. WILSON
 16516
 LICENSED PROFESSIONAL ENGINEER
 12/19/2020

REVISIONS

NO.	DATE	DESCRIPTION
1	04/20/20	ISSUED FOR PERMIT
2	04/20/20	FOR SET

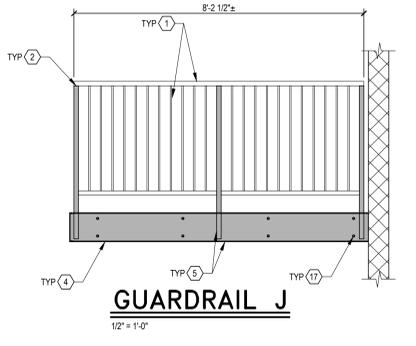
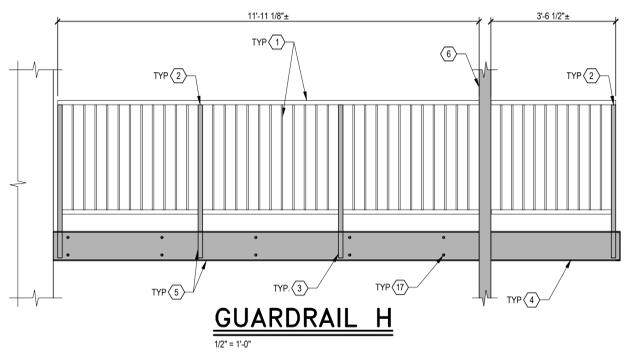
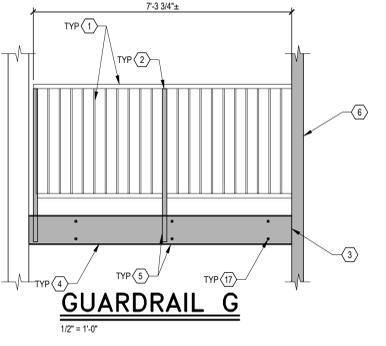
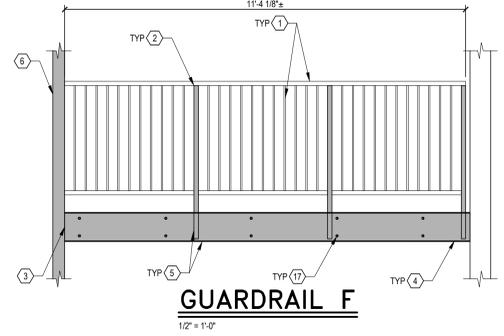
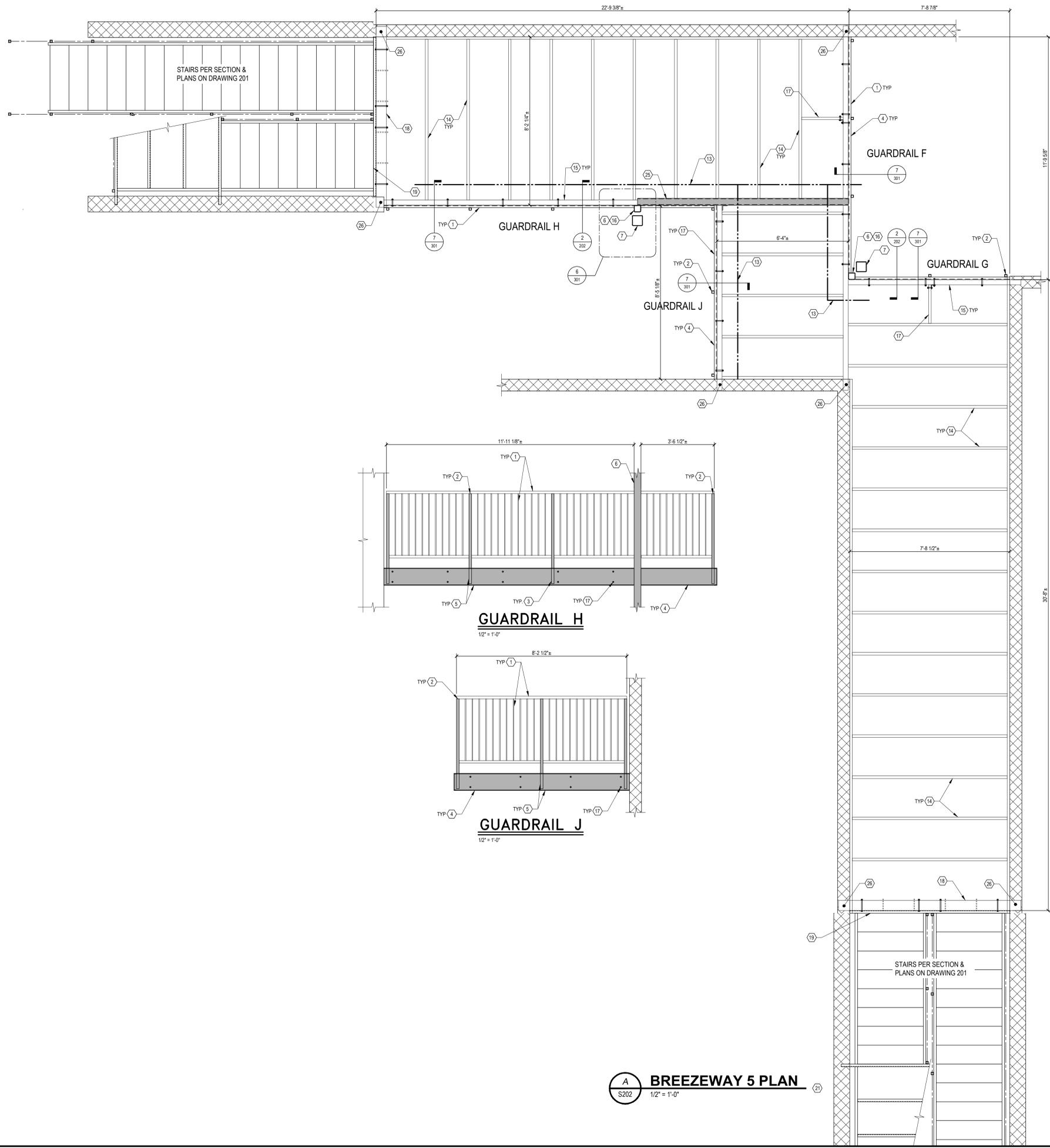
DRAWN BY: J.A. LACY
 ENGINEER: Z.S. WOLCOTT
 CHECKED BY: W.M. JUDD

NKU

NORSE HALL
 EXTERIOR REPAIRS

DRAWING TITLE
 BREEZEWAY 5 PLAN

JOB NUMBER
 20111.00
 DATE
 APRIL 2020
 DRAWING NUMBER

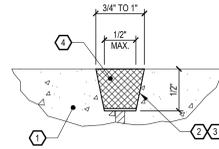


NOTE: SHADED STEEL MEMBERS ARE TO BE REPLACED. UNSHADED STEEL MEMBERS ARE TO SALVAGED FOR RE-USE, UNLESS NOTED OTHERWISE.

KEY NOTES:

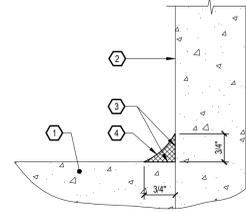
- EXISTING BALCONY GUARDRAIL SYSTEM CONSTRUCTED W/ HSS 5x15 POSTS, TOP/BOTTOM RAIL, AND 1/2"x1/2" PICKETS AT 4" O.C. REMOVE ALL GUARDRAIL SECTIONS, RESTORE, PAINT, AND REINSTALL.
- REMOVE DETERIORATED GUARDRAIL POSTS. REPLACE WITH GALVANIZED HSS 1/2" x 1/2" FULL HEIGHT. WELD TO TOP AND BOTTOM HSS RAILS. PAINT POSTS ABOVE TOP OF SLAB.
- PROVIDE 1/4"x1/2" GUSSET BETWEEN POST AND MC10 BALCONY CHANNEL.
- EXISTING MC10x8.4 BALCONY PERIMETER CHANNELS. REMOVE AND REPLACE WITH GALVANIZED MC10x8.4 BOLT TO (2) 2x10 WOOD FRAMING WITH (2) 1/2" DIAMETER GALVANIZED STEEL THROUGH BOLTS AT 1' GAGE AND 3/2" MAXIMUM SPACING. PLACE BOLTS WITHIN 8" OF EACH END OF THE CHANNEL. REFER TO DETAIL 17 301 FOR COLUMN CONNECTION DETAIL.
- SHOP FABRICATE MC10 AND HSS POST ASSEMBLIES. GALVANIZE ASSEMBLY BEFORE WELDING GUARDRAILS TO POSTS. CLEAN AND COOL GALVANIZE ALL WELDED CONNECTIONS BEFORE PAINTING. ACID ETCH ALL GALVANIZED STEEL WHICH IS TO BE PAINTED.
- EXISTING HSS8x4 COLUMN. REPLACE W/ GALVANIZED HSS4x4x1/8 FROM BASE PLATE TO 12' ABOVE LEVEL 3.
- HSS6x1/4 TEMPORARY SHORING COLUMN W/ 12"x7"x7" BASE PLATE.
- HSS6x1/4 x 9' LONG SPREADER BEAM BELOW SHORING COLUMN. WELD TO COLUMN BASE PLATE. SUPPORT SPREADER BEAM ON 6x6x2" CRIBBING SPACED 48" O.C. BEARING ON THE EXISTING SIDEWALK SLAB. DRIVE WOOD SHIMS TO PRE-LOAD THE SHORING COLUMN.
- GUSSET PLATE 5/16"x6"x8" EACH SIDE OF EXISTING HSS4x4 COLUMN W/ (1) 3/4" THROUGH BOLT THROUGH EXISTING COLUMN. SPACE BOLTS AT 40" O.C. WELD PLATES TO SHORING COLUMN W/ 3/16x2" DOUBLE FILLET AT TOP AND BOTTOM OF PLATE. AT DIAGONAL SHORING PLACEMENT. USE (2) 1/2"x5/8" PLATES PER DETAIL.
- SAW OUT 24"x24" OPENING IN SIDEWALK TO ACCESS COLUMN BASE PLATE. REPLACE SLAB AFTER COLUMN IS REPLACED.
- EXISTING FOOTING.
- EXISTING BASE PLATE TO REMAIN. FIELD SURVEY ELEVATION. REMOVE COLUMN AND GRIND SMOOTH FOR INSTALLATION OF NEW COLUMN. WELD NEW COLUMN TO BASE PLATE WITH 5/16" FILLET ALL AROUND.
- PROVIDE TEMPORARY POST AND BEAM SHORING TO SUPPORT LEVELS 2 AND 3 TO ALLOW REPLACEMENT OF COLUMNS / BEAMS. DESIGN SHORING TO SUPPORT 50 PSF DEAD LOAD PLUS 50 PSF LIVE LOAD AT EACH LEVEL.
- EXISTING 2x10 WOOD JOISTS AT 24" O.C. REPLACE DETERIORATED JOISTS WITH TREATED JOISTS AS DIRECTED BY THE ENGINEER. REPLACE DETERIORATED JOIST HANGERS WITH GALVANIZED STEEL HANGERS AS DIRECTED BY THE ENGINEER.
- EXISTING (2) 2x10 WOOD PERIMETER BEAM. WOOD BEAMS ARE SUPPORTED BY POSTS IN THE WALLS AND BOLTED TO THE PERIMETER MC10 FOR SUPPORT AT THE EXTERIOR COLUMNS.
- PROVIDE ANGLE 4x4x3/8 BEARING ANGLE TO SUPPORT PERIMETER WOOD BEAMS AT STEEL COLUMNS. SHOP WELD TO COLUMN WITH 3/16" VERTICAL WELD EACH SIDE. SHIM BEARING TO SUPPORT WOOD.
- 2x10 BLOCKING AT GUARDRAIL POSTS WHERE FRAMING IS PARALLEL TO THE RAILING. PROVIDE 1/2x2 1/4x1/4 x 8" W/ (2) 1/2" DIA. AT 1' O.C. BOLTS IN BLOCK AND THROUGH SPANDREL. WOODGRIDER. PROVIDE (3) #10x4" COATED DECK SCREWS AT INTERIOR JOIST.
- EXISTING (4) 2x10 STAIR SUPPORT BEAM. TO REMAIN.
- REPLACE MC10 STAIR SUPPORT HEADER WITH GALVANIZED MC10x8.4 PROVIDE (2) 5/8" DIA. THROUGH BOLTS PLACE 4" INSIDE EACH STAIR STRINGER. PROVIDE SHOP-WELDED CONNECTION ANGLE FOR EACH STRINGER. BOLT STRINGERS TO OUTSTANDING LEG OF CONNECTION ANGLES.
- EXISTING HSS8x4 BEAM. REPLACE BEAM WITH GALVANIZED HSS8x4x3/8 FROM A NEW SPLICE LOCATION 30" FROM WALL. REFER TO SECTION 5 / 301 FOR SPLICE DETAIL.
- AT ALL EXISTING CONSTRUCTION JOINTS BETWEEN CONCRETE ELEMENTS. REMOVE LOOSE CONCRETE AND GRIND OUT JOINT OPENING. PREPARE SURFACES, AND INSTALL NEW CONSTRUCTION JOINT SEALANT. REFER TO DETAIL 1 ON DRAWING 401.
- EXISTING HSS4x4 COLUMN FROM FOUNDATION TO LEVEL 3 BALCONY AND HSS8x4 BEAMS AT EACH LEVEL. SHORE BALCONY ON BOTH SIDES OF BEAM AND REMOVE BEAMS AND COLUMNS. SAW CUT SLAB AROUND COLUMN AND REMOVE COLUMN 6" BELOW GRADE. REINSTALL SLAB ON GRADE CONCRETE PER SPECIFICATION SECTION 001100.
- NEW HSS4x4x1/4 GALVANIZED COLUMN FROM BELOW LEVEL 3 TO FOUNDATION. PROVIDE NEW FOOTING 36"x36"x18" DEEP. CAST FLUSH W/ EXISTING SIDEWALK SLAB. PROVIDE 5/16x24" BASE PLATE WITH (2) 3/4" DIA. JACK BOLTS. AFTER INSTALLATION OF NEW FLOOR SUPPORT CHANNELS, TIGHTEN BOLTS AGAINST FOOTING TO PRE-LOAD COLUMNS. PROVIDE 1" GROUT BELOW COLUMN. AFTER GROUTING, REMOVE BOLTS AND REPLACE W/ 5/8" x 4" EMBED ADHESIVE ANCHOR RODS.
- NEW GALVANIZED 2x11.5 EACH SIDE OF COLUMNS. BOLT TO CONNECTION PLATES.
- EXISTING HSS8x4 BEAM. REPLACE BEAM WITH GALVANIZED HSS8x4x3/8 FOR THE FULL LENGTH.
- WOOD GIRDER OR STEEL TUBE BEARING IN WALL. DO NOT DISTURB.

BREEZEWAY 5 PLAN
 S202 1/2" = 1'-0"



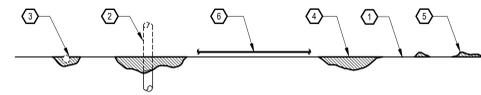
- 1 EXISTING CONCRETE SLAB.
- 2 CUT OUT ALL EXISTING JOINT SEALANTS IF PRESENT, THEN GRIND SURFACES TO REMOVE SEALANT RESIDUE AND SLOPE SIDE SURFACES AS SHOWN. PROVIDE MINIMUM WIDTH TO DEPTH RATIO OF 2:1.
- 3 MEDIA BLAST ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.
-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

CONSTRUCTION JOINT
1
DETAIL
 401 NO SCALE



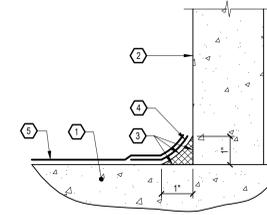
- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING WALL, CURB, OR ANY OTHER VERTICAL PROJECTION.
- 3 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. INSTALL SEALANT FLUSH WITH ADJOINING SURFACES BENEATH MEMBRANE, AND CONCAVE ELSEWHERE. REFER TO SPECIFICATION SECTION 079200.
- 4 PROVIDE COVE SEALANT. PROVIDE MINIMUM 1/2\"/>

COVE SEALANT
2
DETAIL
 401 NO SCALE



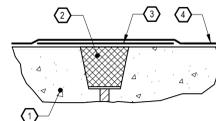
- EXPOSED METAL**
- 1 EXISTING CONCRETE SLAB.
 - 2 CUT OFF NON-FUNCTIONAL METALS 3/4\"/>
 - 3 EXPOSED SLAB REINFORCEMENT AND OR WIRE MESH. CUT AND REMOVE SUFFICIENT AMOUNT OF REINFORCEMENT TO PROVIDE 1/2\"/>
 - 4 REPAIR MINOR EXISTING SURFACE DEFECTS CAUSED BY AGGREGATE POP-OUTS, SURFACE SCALING, AND FREEZE-THAW DAMAGE IN MANNER ACCEPTABLE TO ENGINEER AND MEMBRANE MANUFACTURER. REFER TO SPECIFICATION SECTION 071800.
 - 5 GRIND SMOOTH OR OTHERWISE REMOVE EXCESS CONCRETE AND/OR MATERIAL DEPOSITED (LEFT ON SLAB) FROM CONSTRUCTION ACTIVITIES. WHERE EXISTING SLAB CONCRETE IS MOUNDED OR OTHERWISE PROTRUDES MORE THAN 1/16\"/>
 - 6 NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071800.
- SURFACE DEFECTS**

SUPPLEMENTAL SURFACE PREPARATION
3
DETAIL
 401 NO SCALE



- 1 EXISTING CONCRETE SLAB.
- 2 EXISTING WALL, CURB, OR ANY VERTICAL PROJECTION.
- 3 PROVIDE NEW COVE SEALANT. REFER TO DRAWING 2 ON THIS SHEET.
- 4 NEW DETAIL COAT TERMINATED ON COVE SEALANT. REFER TO SPECIFICATION SECTION 071800.
- 5 NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071800.

MEMBRANE TERMINATION ON COVE SEALANT
4
DETAIL
 401 NO SCALE



- 1 EXISTING CONCRETE SLAB.
- 2 NEW SEALANT. REFER TO DETAIL 1 ON THIS SHEET.
- 3 NEW 4\"/>
- 4 NEW MEMBRANE SYSTEM. EXTEND ONTO PERIMETER COVE SEALANT JOINT. REFER TO SPECIFICATION SECTION 071800.

MEMBRANE OVER CJs
5
DETAIL
 401 NO SCALE



REVISIONS									

ISSUES									
1	CONCRETE	OWNER REVIEW							
2	MEMBRANE	NO SET							

DRAWN BY: J.A. LACY
 ENGINEER: Z.S. WOLCOTT
 CHECKED BY: W.M. JUDD



NORSE HALL
EXTERIOR REPAIRS

DRAWING TITLE: SEALANT, JOINT & MEMBRANE DETAILS
 JOB NUMBER: 20111.00
 DATE: APRIL 2020
 DRAWING NUMBER: 401