

NORTH STAIR:
 SURFACE PREPARATION: PERFORM BRUSH OFF BLAST CLEANING TO SSPC-SP7 SPECIFICATIONS OF ALL STEEL FRAMING MEMBERS. RECOMMEND USING MEDIA BLASTING PROCESS TO ACHIEVE THIS SUBSTRATE FINISH WHILE MINIMIZING EFFECTS ON SURROUNDING STRUCTURE.

INSPECTION: AFTER SURFACE PREPARATION OPERATIONS ARE COMPLETE, THE ENGINEER OF RECORD SHALL BE CONTACTED TO PERFORM AN ON-SITE INSPECTION OF THE STAIR STRUCTURE TO DETERMINE THE SCOPE OF WORK TO BE PERFORMED AS PART OF THIS CONTRACT.

NEW TREADS: SOME THE CONCRETE TREADS ARE DAMAGED AND MUST BE REPLACED IN KIND. THE FIELD INSPECTION SHALL DETERMINE THE NUMBER AND SPECIFIED MEMBERS TO BE REPLACED.

REINFORCEMENT: SUBSEQUENT TO INSPECTION, ANY REINFORCEMENT DETAILS REQUIRED BY THE ENGINEER OF RECORD SHALL BE IMPLEMENTED.

UPPER LEVEL LANDING: THE UPPER LEVEL LANDING SHOWS SIGNS OF SEVERE DAMAGE AND LACK OF CONTINUITY. IT APPEARS THAT A REPAIR SOLUTION HAD BEEN INSTALLED PREVIOUSLY WITHOUT ACHIEVING THE DESIRED RESULTS. THIS CONCRETE PATCH SHALL BE REMOVED AND LEFT EXPOSED FOR REVIEW AND TO DETERMINE THE APPROPRIATE REPAIR SOLUTION TO BE INSTALLED. THE REPAIR DETAIL SHALL BE DESIGNED AND SUBSEQUENTLY INSTALLED BY THE CONTRACTOR.

REPAIR INSPECTION: AN INSPECTION SHALL BE PERFORMED AFTER THE REPAIRS ARE MADE AND PRIOR TO APPLYING THE FINISHES TO ENSURE THAT ALL OF THE APPROPRIATE AND REQUIRED REPAIRS HAVE BEEN MADE.

PAINTING: APPLY SINGLE PRIMER COAT CONSISTING OF SHERWIN-WILLIAMS PRO-CRYL ACRYLIC PRIMER AND TWO TOP COATS OF SHERWIN-WILLIAMS ACRYLIC LATEX (COLOR TO BE SELECTED BY OWNER).

ALLOWANCE: AN ALLOWANCE SHALL BE INCLUDED IN THE CONTRACT DOCUMENTS FOR THE PERFORMANCE OF THE ASSOCIATED WORK OF THIS STAIR SYSTEM.

SOUTH STAIR:
 SURFACE PREPARATION: PERFORM POWER TOOL CLEANING TO SSPC-SP3 SPECIFICATIONS OF ALL STEEL FRAMING MEMBERS. REMOVE ALL RUST, AS WELL AS, LOOSE AND DELETERIOUS MATERIALS AND DISPOSED OF PROPERLY.

INSPECTION: AFTER SURFACE PREPARATION OPERATIONS ARE COMPLETE, THE ENGINEER OF RECORD SHALL BE CONTACTED TO PERFORM AN ON-SITE INSPECTION OF THE STAIR STRUCTURE TO DETERMINE THE SCOPE OF WORK TO BE PERFORMED.

REINFORCEMENT: IT IS NOT ANTICIPATED THAT REINFORCEMENT REPAIRS WILL BE NEEDED FOR THIS STAIR SYSTEM, BUT A SITE INSPECTION SHALL BE PERFORMED TO MAKE THAT DETERMINATION. SUBSEQUENT TO INSPECTION, ANY REINFORCEMENT DETAILS THAT MAY BE REQUIRED BY THE ENGINEER OF RECORD SHALL BE IMPLEMENTED AT THAT TIME.

MAINTENANCE: THERE ARE SOME LOOSE OR MARGINAL CONNECTIONS OF THE EXISTING GUARDRAIL TO THE MAIN BUILDING. ALL GUARDRAILS SHALL BE CHECKED FOR STABILITY AND RECONNECTED, AS NEEDED, TO ENSURE THAT THE CODE REQUIREMENTS ARE MET AND THE SAFETY TO THE PUBLIC IS MAINTAINED.

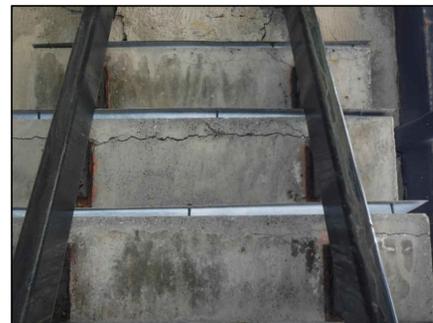
PAINTING: APPLY SINGLE PRIMER COAT CONSISTING OF SHERWIN-WILLIAMS PRO-CRYL ACRYLIC PRIMER AND TWO TOP COATS OF SHERWIN-WILLIAMS ACRYLIC LATEX (COLOR TO BE SELECTED BY OWNER).

ALLOWANCE: AN ALLOWANCE SHALL BE INCLUDED IN THE CONTRACT DOCUMENTS FOR THE PERFORMANCE OF THE ASSOCIATED WORK OF THIS STAIR SYSTEM.

NOTE: BOTH STAIR SYSTEMS SHALL BE CLEANED OF ALL DEBRIS, ORGANICS, TRASH, ETC. WHICH WILL BE PROPERLY DISPOSED OF OFFSITE.



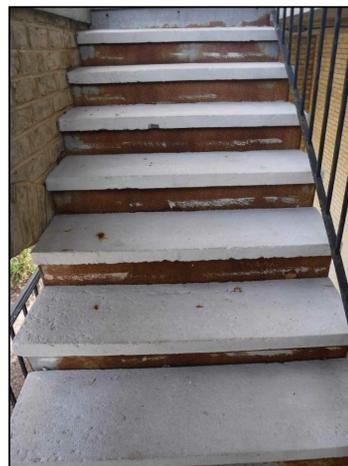
NORTHERN EXTERIOR STAIRWAY SYSTEM:
 EXISTING CONDITION OF THE UPPER LEVEL LANDING THAT REQUIRES REMOVAL FOR SUBSEQUENT INSPECTION AND REPAIRS:



A CONCRETE STAIR TREAD THAT MUST BE REMOVED AND REPLACED. THE NEW TREAD SHALL MATCH THE EXISTING:



STEEL STAIR STRINGERS AND PERIMETER LANDING FRAMING THAT MUST BE FULLY CLEANED AND REINFORCED FOR CONTINUED USE:



TYPICAL DETERIORATION AND SCALE THAT REQUIRES REMOVAL AND CLEANING:

NORTHERN EXTERIOR STAIRWAY SYSTEM:
 EXISTING CONDITIONS



GUARDRAIL CONNECTIONS:

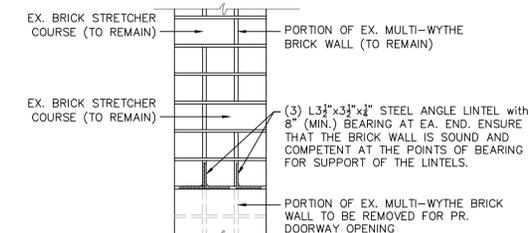


TYPICAL DETERIORATION AND SCALE THAT REQUIRES REMOVAL AND CLEANING:

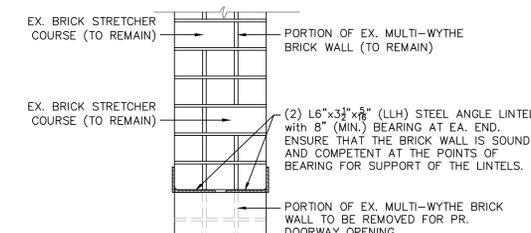


STAIR SYSTEM NEEDS GENERAL CLEANING AND PROTECTION OF THE STEEL ELEMENTS:

SOUTHERN EXTERIOR STAIRWAY SYSTEM:
 EXISTING CONDITIONS



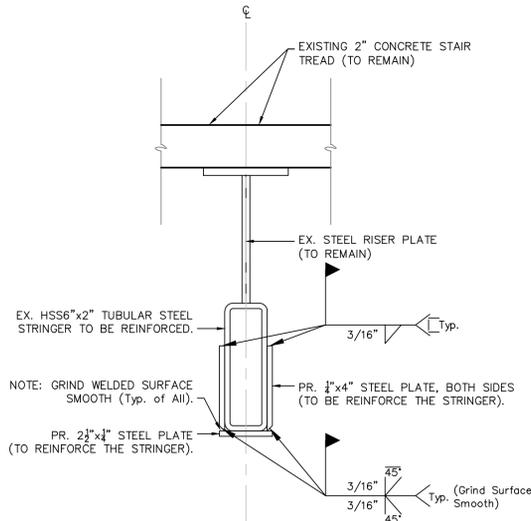
STANDARD LINTEL INSTALLATION DETAIL



ALTERNATE: CUT-IN INSTALLATION DETAIL

NOTES:
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES.
 - THE EXISTING WALL SHALL BE INSPECTED PRIOR TO INSTALLATION TO VERIFY ITS STRUCTURAL CONDITION AND SOUNDNESS.
 - ALL STEEL ANGLES SHALL BE ASTM A36 GRADE STEEL.
 - MAXIMUM CLEAR SPAN OF OPENING SHALL NOT EXCEED 4'-0".

AREAS OF RENOVATION: TYPICAL DOOR OPENING LINTEL DETAILS
 SCALE: 1" = 1'-0"



NOTES:
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES.
 - THE EXISTING STEEL SHALL BE CLEANED OF ALL SCALE AND DEBRIS. AN INSPECTION SHALL THEN BE DONE TO VERIFY ITS STRUCTURAL CONDITION AND SOUNDNESS FOR APPLICATION OF THIS REPAIR.
 - ALL STEEL MATERIAL USED FOR THE REPAIRS SHALL BE ASTM A36 GRADE STEEL, MINIMUM.
 - LENGTHS OF THE REPAIR PLATES, LOCATIONS, AND TOTAL NUMBER OF REPAIRS SHALL BE DETERMINED IN THE FIELD PURSUANT TO THE REQUIRED FIELD INSPECTION RECOMMENDATIONS.
 - THIS IS PRELIMINARY DETAIL TO ASSIST IN THE DEVELOPMENT OF THE COST ALLOWANCE. THE FINAL REPAIR DETAIL SHALL BE DEVELOPED AFTER THE REQUIRED FIELD INSPECTION.

NORTH EXTERIOR STAIRS: TYPICAL STRINGER REINFORCEMENT DETAIL
 SCALE: 1" = 3'-0"

PROPOSED FILE STORAGE AREAS:
 -SEVERAL AREAS HAVE BEEN DESIGNATED FOR STANDARD OFFICE SYSTEM FILE STORAGE. AN EXTENSIVE ANALYSIS OF THE BAR JOISTS USED IN THIS FLOOR SYSTEM WAS DONE TO DETERMINE THEIR CAPACITY TO SUPPORT THE PROPOSED APPLIED LOADS. THE BAR JOISTS HAVE BEEN DESIGNED WITH ADDITIONAL, CLOSELY SPACED, PANEL POINTS AND HEAVY WEBS FOR THIS STRUCTURE. THE RESULT IS A VERY SOLID FLOOR SYSTEM WITH AN EXISTING DEFLECTION OF ONLY APPROXIMATELY 1/8". IT APPEARS THAT THIS SYSTEM HAS BEEN DESIGNED FOR AN APPLIED LIVE LOAD OF APPROXIMATELY 80 PSF WHICH WOULD SATISFY THE UPPER LEVEL CORRIDOR REQUIREMENT. THIS LOADING WOULD ALSO ADEQUATELY SUPPORT THE PROPOSED FILE STORAGE LOADING REQUIREMENT. THEREFORE, IT HAS BEEN DETERMINED THAT NO ADDITIONAL JOIST REINFORCEMENT WILL BE REQUIRED AT THIS TIME.
 - IT IS RECOMMENDED THAT THE FLOOR SYSTEMS IN STORAGE AREAS BE MONITORED BY THE OWNER AND PERIODIC INSPECTIONS DONE TO VERIFY THEIR PERFORMANCE. IF EXCESSIVE MOVEMENT OR UNDUE STRESS IS FOUND, THEN THE APPROPRIATE REINFORCEMENT SHALL BE DONE AT THAT TIME.

REVISIONS	DATE	BY

TITLE: **MISCELLANEOUS STRUCTURAL CONSTRUCTION DETAILS and MAINTENANCE DIRECTIVES**

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SCALE: AS NOTED DATE: 04/17/19

SHEET: **S1.0**