1. STAIRWAYS, HANDRAILS, AND GUARDS SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.

2. REFER TO STRUCTURAL DRAWINGS FOR LOCATION AND SIZES OF ALL FLOOR MEMBERS.

3. STAIRWAYS SHALL HAVE A MINIMUM HEADROOM CLEARANCE OF 60 INCHES MEASURED VERTICALLY FROM A LINE CONNECTING THE EDGE OF NOSINGS.

4. ALL RISERS ARE TO BE INDICATED ON DRAWINGS AND SHALL BE 7 INCHES MAXIMUM AND 4 INCHES MINIMUM IN HEIGHT

5. ALL TREADS BETWEEN FLOOR LEVELS SHALL BE MINIMUM 11 INCHES (UNLESS NOTES OTHERWISE) AS MEASURED HORIZONTALLY BETWEEN VERTICAL PLANES OF THE FURTHERMOST PROJECTION OF ADJACENT TREADS.

6. STAIR TREADS AND RISERS SHALL BE OF UNIFORM SIZE AND SHAPE. THE TOLERANCE BETWEEN THE LARGEST AND SMALLEST RISER OR TREAD SHALL NOT EXCEED 0.375 INCH IN ANY FLIGHT OF STAIRS

7. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF TREAD SHALL NOT BE GREAT ER THAN 0.5 INCHES. THE LEADING EDGE OF TREAD SHALL NOT PROJECT BEYOND THE TREAD BELOW AS SHOWN ON DRAWINGS, BUT NOT MORE THAN 1.25 INCHES.

8. THE WALKING SURFACES OF TREADS AND LANDINGS OF STAIRWAY SHALL BE FLAT. MAXIMUM SLOPES WHERE SHOWN ON DRAWINGS SHALL NOT EXCEED ONE UNIT VERTICAL TO 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION.

9. STAIRS AND LANDINGS SHALL WITHSTAND THE UNIFORMLY DISTRIBUTED LOAD OF 100 POUNDS PER SQUARE FOOT AND THE CONCENTRATED LOAD OF 300 POUNDS ON STAIR TREADS (ONE AREA OF 4 SQUARE INCHES)

10. HANDRAIL ASSEMBLIES AND GUARDS SHALL WITHSTAND A LOAD OF 50 POUNDS PER LINEAR FOOT APPLIED IN ANY DIRECTION AT THE TOP AND SHALL TRANSFER THIS LOAD TO THE STRUCTURE AND A CONCENTRATED LOAD OF 200 POUNDS, APPLIED AT IN ANY DIRECTION AT ANY POINT ALONG THE TOP, AND HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURE TO TRANSFER THIS LOADING TO APPROPRIATE STRUCTURAL MEMBER OF THE BUILDING

11. INTERMEDIATE RAILS, BALUSTERS AND PANEL FILLERS SHALL WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 1 SQUARE FOOT INCLUDING OPENINGS AND SPACE BETWEEN THE RAILS

12. ALL STAIR FLIGHTS AND LANDINGS SHALL HAVE GUARDS NOT LESS THAN 42 INCHES HIGH, MEASURED VERTICALLY ABOVE THE LEADING EDGE OF THE TREAD OR ADJACENT WALKING SURFACE.

13. STAIRWAY SHALL HAVE HANDRAILS ON EACH SIDE. HANDRAIL HEIGHT MEASURED VERTICALLY ABOVE THE LEADING EDGE OF THE TREAD OR ADJACENT WALKING SURFACE, WILL BE NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES.

14. HANDRAILS WITH CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF ATLEAST 1.25 INCHES AND NOT GREATER THAN 2 INCHES, OR SHALL PROVIDE EQUIVALENT GRASPABILITY. IF HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF ATLEAST 4 INCHES AND NOT GREATER THAN 6.25 INCHES WITH A MINIMUM CROSS SECTION DIMENSION OF 2,25 INCHES. EDGE SHALL HAVE A MINIMUM RADIUS OF 0.125 INCHES.

15. GUARDS SHALL HAVE BALUSTERS OR ORNAMENTAL PATTERN SUCH THAT A SPHERE OF 4 INCHES IN DIAMETER SHALL NOT PASS THROUGH. THE TRIANGULAR OPENING FORMED BY THE RISER, TREAD AND BOTTOM OF RAIL AT THE OPEN SIDE OF STAIRWAY SHALL BE OF MAXIMUM SIZE SUCH THAT A SPHERE OF 8 INCHES IN DIAMETER SHALL NOT PASS THROUGH

16. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTIONS BY NEWEL POSTS OR OTHER OBSTRUCTIONS.

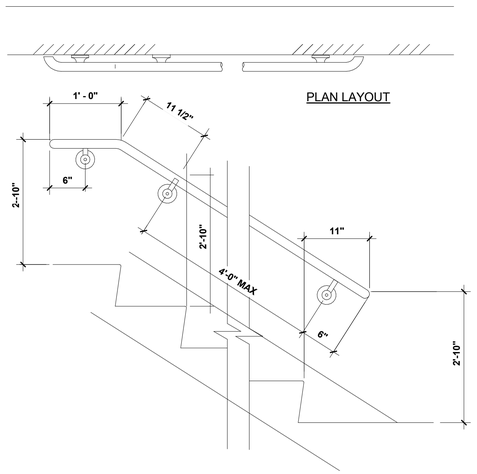
17. HANDRAILS SHALL RETURN TO A WALL, GUARD OR TO THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAIL SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.

18. ALL HANDRAIL JOINTS SHALL BE AS STRONG AND RIGID AS ADJOINING SECTIONS AND SHALL BE FLUSH AND SMOOTH.

19. SUPPORT OF MECHANICAL OR ELECTRICAL PIPING ON STAIR CONSTRUCTION SHALL NOT BE PERMITTED.

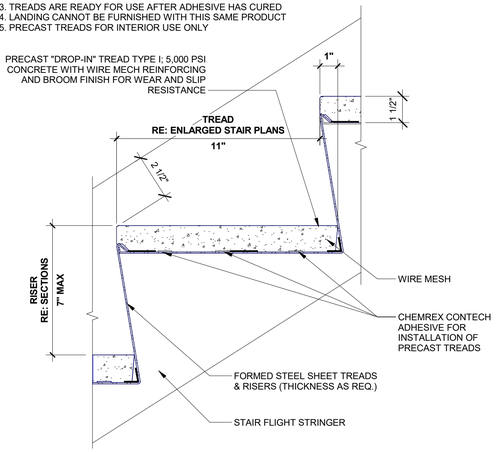
20. STAIR IDENTIFICATION SIGNS SHALL BE LOCATED AT EACH FLOOR LEVEL IN ALL ENCLOSED STAIRWAYS. SIGNS SHALL IDENTIFY THE STAIRWAY, INDICATE WHETHER OR NOT THERE IS ROOF ACCESS, THE FLOOR LEVEL, AND THE UPPER AND TERMINUS OF THE STAIRWAY. THE SIGN SHALL BE LOCATED APPROXIMATELY 5 FEET ABOVE THE LANDING FLOOR IN POSITION THAT IS READILY VISIBLE WHEN THE DOOR IS IN EITHER THE OPEN OR CLOSED POSITION. SIGNS SHALL COMPLY WITH THE FIRE CODE, APPENDIX H.

21. APPROVED STAIRWAY IDENTIFICATION SIGNS SHALL BE LOCATED AT EACH FLOOR LEVEL ON THE OCCUPANCY SIDE OF EACH ENCLOSED STAIRWAY. IDENTIFICATION SIGNS SHALL BE POSTED ON OR ADJACENT TO THE DOOR WITH LETTERING AT LEAST 2" IN HEIGHT ON A BACKGROUND OF CONTRASTING COLOR SO THAT THE LETTERING IS CLEARLY VISIBLE. WHERE STAIR DOORS CAN BE LOCKED TO PROHIBIT REENTRY TO A FLOOR, AN APPROVED SIGN SHALL BE POSTED THAT READS "NO REENTRY" WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT ON A BACKGROUND OF CONTRASTING COLOR SO THE LETTERING IS CLEARLY VISIBLE.

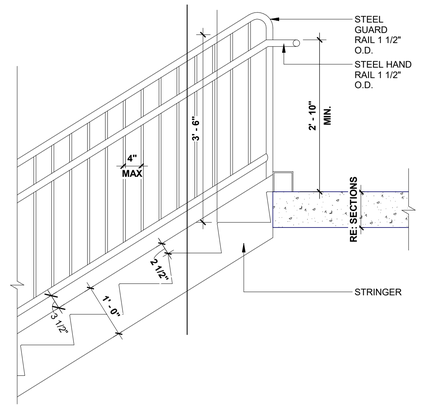


STAIR-WALL MOUNTED HAND RAIL | 11
1" = 1'-0"

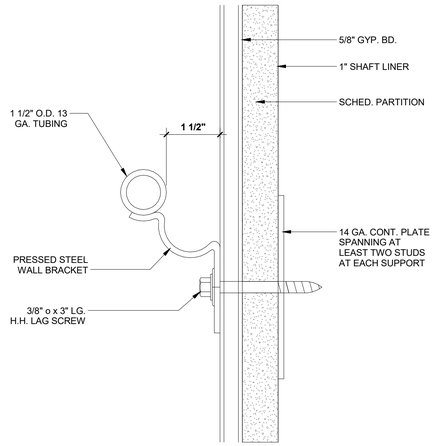
NOTE:
1. FACTORY ATTACH AS REQ.
2. PRECAST TREADS ARE LIMITED TO MAX. LENGTH OF 4'-6"
3. TREADS ARE READY FOR USE AFTER ADHESIVE HAS CURED
4. LANDING CANNOT BE FURNISHED WITH THIS SAME PRODUCT
5. PRECAST TREADS FOR INTERIOR USE ONLY



STAIR - TREAD DETAIL SECTION | 6
3" = 1'-0"

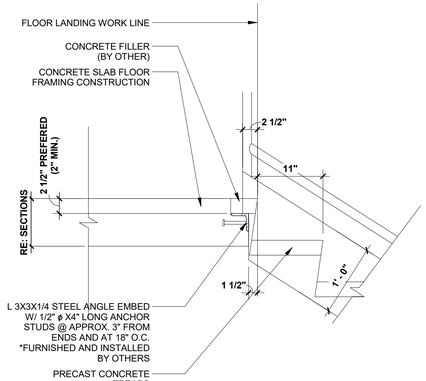


STAIR - TOP FLOOR LANDING | 3
3/4" = 1'-0"

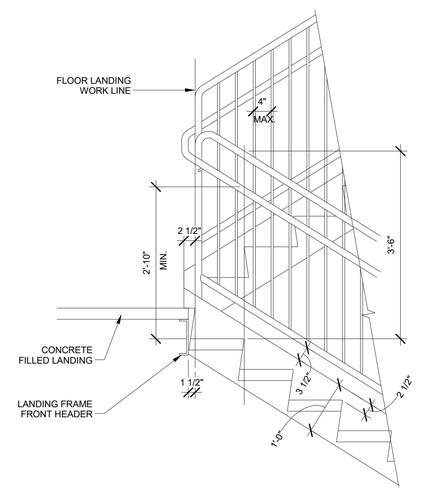


STAIR-GYP. BD. WALL BRACKET CONNECT. | 10
6" = 1'-0"

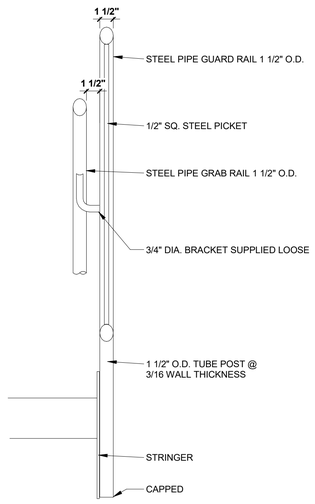
STAIR - INTERM. LANDING (TYP. DN.) | 8
3/4" = 1'-0"



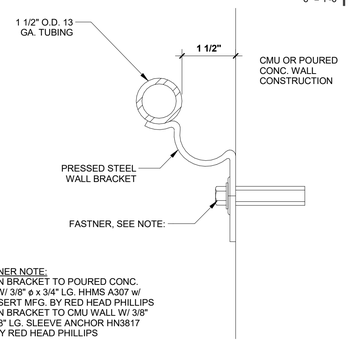
STAIR-STRINGER CONNECTION TO SLAB | 5
1" = 1'-0"



STAIR - INTERM. LANDING (TYP. UP.) | 2
3/4" = 1'-0"

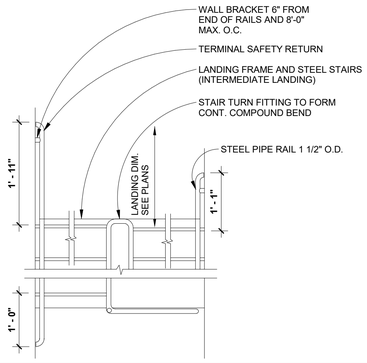


STAIR - HANDRAIL DETAIL SECTION | 12
1 1/2" = 1'-0"

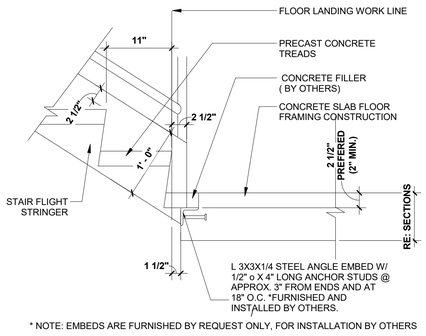


FASTENER NOTE:
FASTEN BRACKET TO POURED CONC. WALL W/ 3/8" ø x 3/4" LG. HHMS A307 w/ J-38 INSERT MFG. BY RED HEAD PHILLIPS
FASTEN BRACKET TO CMU WALL W/ 3/8" ø x 1 7/8" LG. SLEEVE ANCHOR HN3817 MFG. BY RED HEAD PHILLIPS

STAIR-CONC. WALL BRACKET CONNECT. | 9
6" = 1'-0"

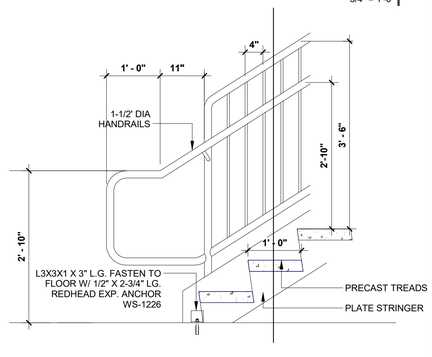


STAIR - TYP. STAIR RAILING PLAN | 7
3/4" = 1'-0"



* NOTE: EMBEDS ARE FURNISHED BY REQUEST ONLY, FOR INSTALLATION BY OTHERS

STAIR-STRINGER CONNECT. TO SLAB 02 | 4
1" = 1'-0"



STAIR - BOTTOM FLOOR LANDING | 1
3/4" = 1'-0"

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W [SQUARED] ARCHITECTS

ISSUES AND REVISIONS

NO	DATE	DESCRIPTION
C	19 AUG 26	ADDENDUM 2

REGISTERED ARCHITECT — SUSANNE C. WILSON — STATE OF TEXAS
08/23/19

GH SCHOOL
4780 N MAIN STREET

SHEET TITLE
STAIR DETAILS

SHEET NUMBER
A613

PROJECT #
A041

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