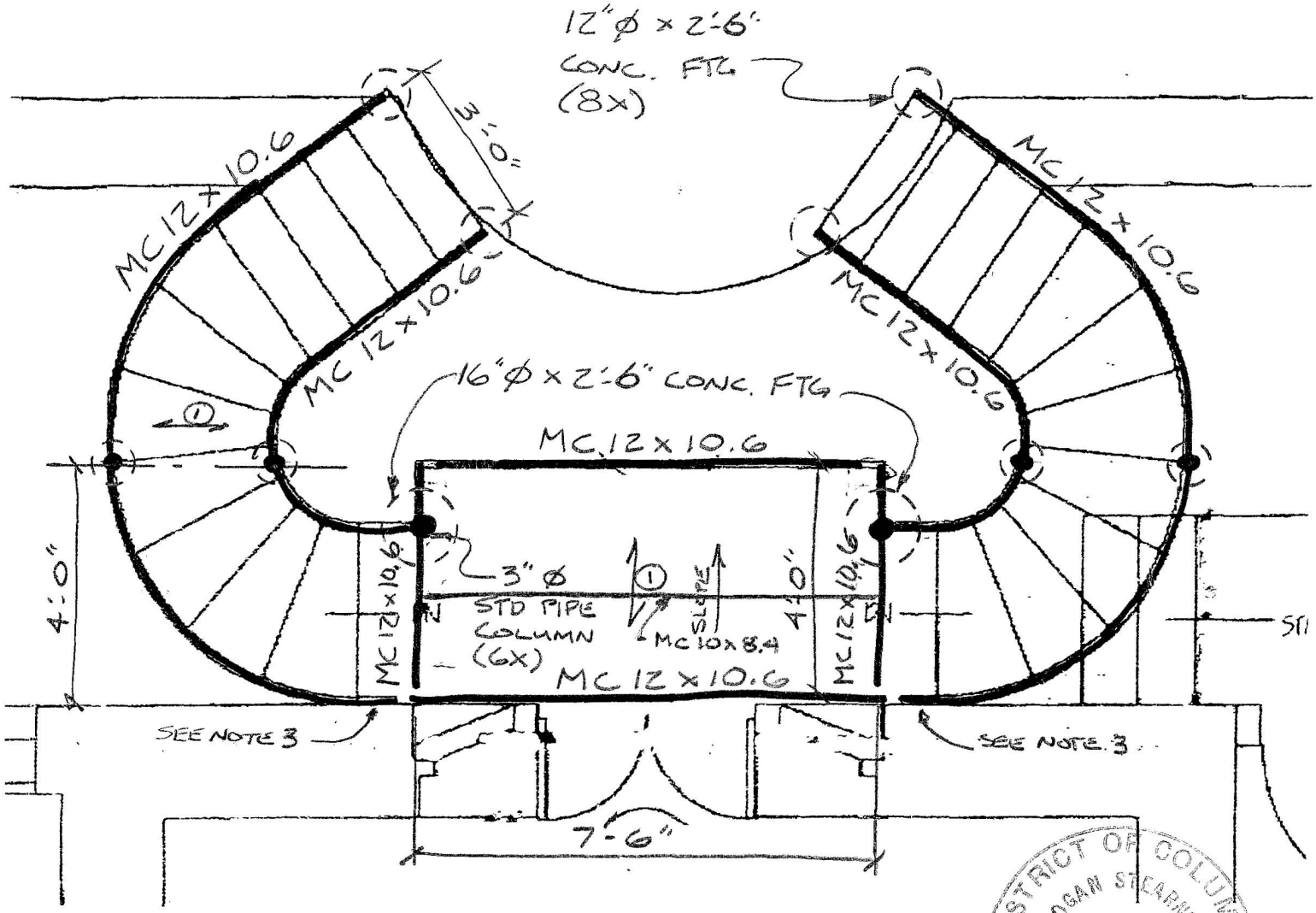
Stearns Engineering
208 North Adams Street, Rockville MD 20850 fax:(301) 294-3096 (301) 294-9414

sheet 1 of 6
job # 01034
date: 3 May 01
by: PJL

project: TouTorsky Mansion
subject: STAIR PLAN




## STAIR FRAMING PLAN

not to scale

DISTRICT OF COLUMBIA ROGAN STEARNS Rogan Stearns REGISTERED PROFESSIONAL ENGINEER

Notes:

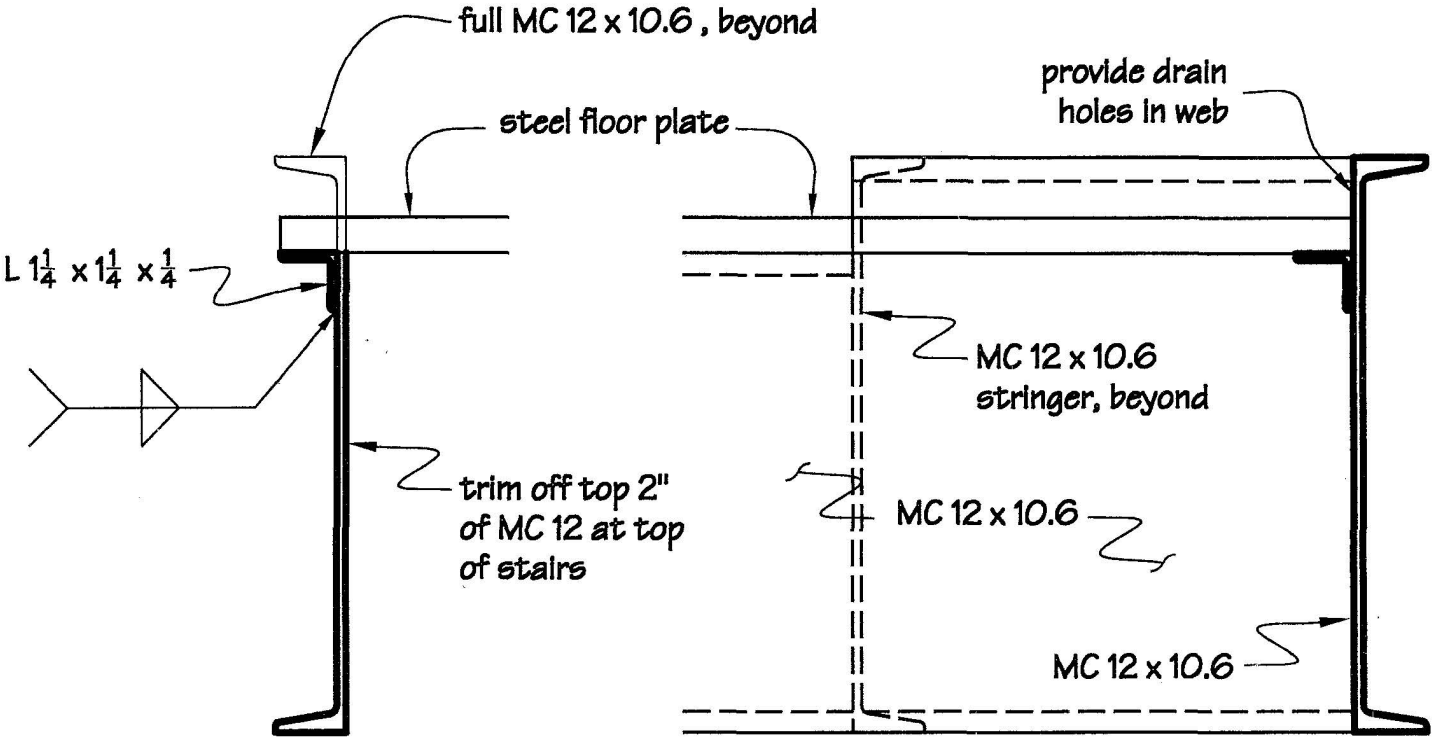
1. 1/① - Landing and treads to be steel floor plate, see Architectural Drawings for additional information.
2. Pipe column to have 1/2" x 7" x 7" base plate with (4) 1/2" diameter x 8"+ 2" hook anchor bolts and ½" x 4" x 8" cap plate with (2) 3/4" diameter bolts.
3. Attach end of outside stringer to house with (2) 1/2" diameter Hilti HIT HY20 anchors, see Connection to House detail for additional information.
4. Stair manufacturer: Provide supports at front and back of each tread.
5. Contractor: Provide drain holes in MC 12 x 10.6 at landing.
6. Landing and treads to slope 1/8"=1'-0".

Board of Zoning Adjustment
District of Columbia
CASE NO.16823
EXHIBIT NO.10
BZA
Case No. 16823
Exhibit No. 10

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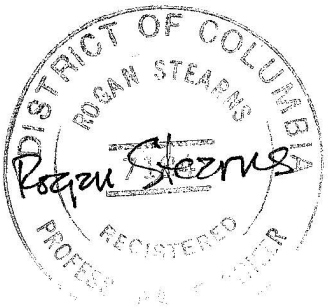
sheet 2 of 6
job # 01034
date: 3 May 01
by: PJL

project: TouTorsky Mansion
subject: DETAIL @ TOP OF STAIRS




## Detail @ MC12 at Top of Stairs

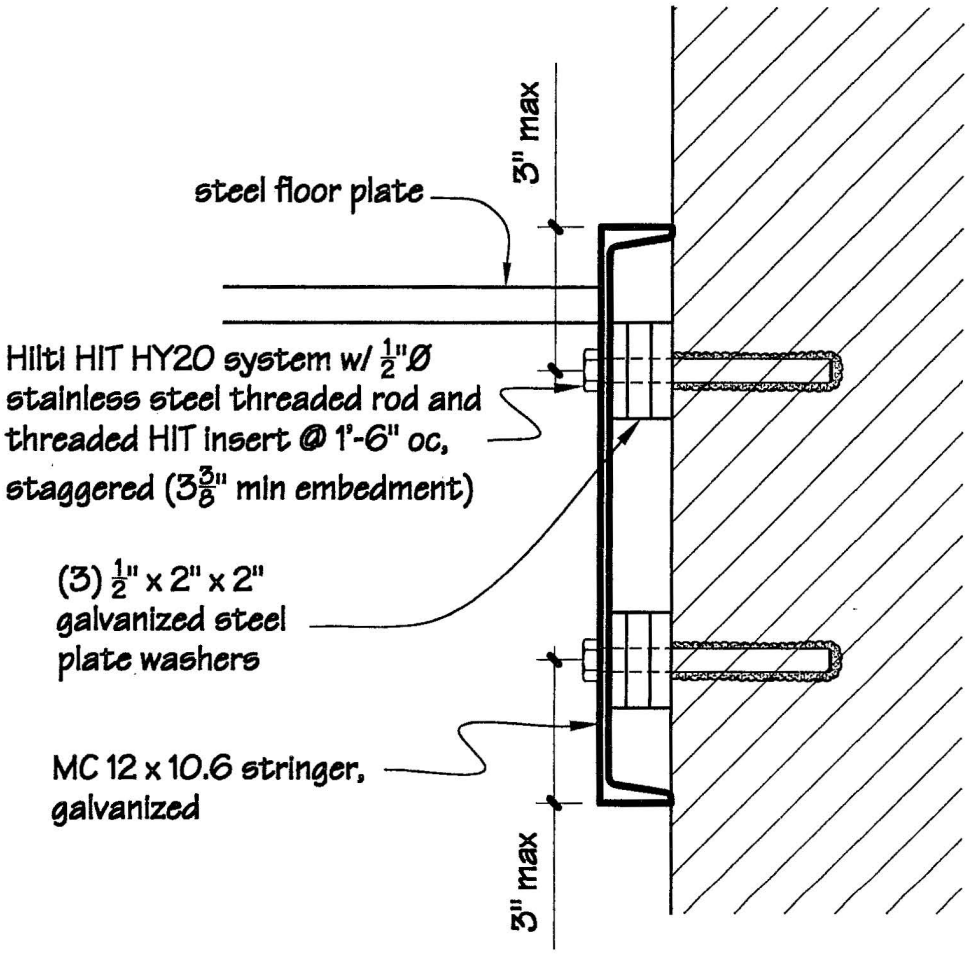
3" = 1'-0"



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sheet 3 of 6
job # 01034
date: 3 May 01
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project: TouTorsky Mansion
subject: Connection Detail




# Typical Connection to House

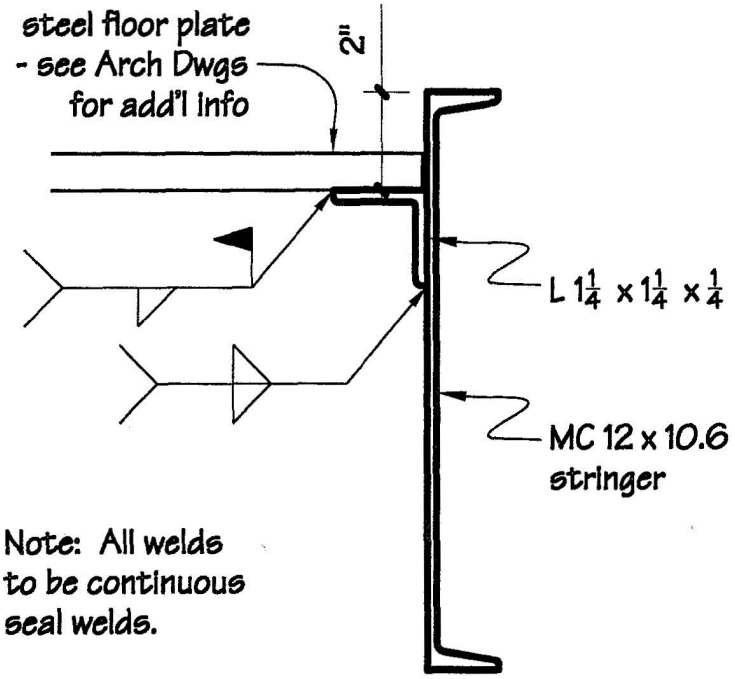
3" = 1'-0"

DISTRICT OF COLUMBIA
ROGAN STEARNS
Rogan Stearns
REGISTERED
PROFESSIONAL ENGINEER

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sheet 4 of 6
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# Typical Floor Plate Connection

3" = 1'-0"



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sheet 5 of 6
job # 01034
date: 3 May 01
by: PJL

project: TouTorsky Mansion
subject: Structural Notes

1. This building has been designed in accordance with the BOCA National Building Code/1996 Edition.

Design Loads: Stairs 100 psf

2. Guardrails and handrails shall be designed and constructed to the structural loading conditions specified in Section 4.4 of the ASCE Standard 7-95 "Minimum Design Loads for Buildings and Other Structures".

3. Steel stair shop drawings along with design calculations must be submitted by the general contractor and reviewed by Stearns Engineering. This submission must by signed and sealed by a Professional Engineer registered in the project's state.

4. Footings are designed for an assumed soil bearing capacity of 2000 psf. Footings shall bear on natural undisturbed soil 1'-0" below original grade or on controlled compacted fill, and bottoms of footings shall be 2'-6" below finished grade, unless noted otherwise. Contractor shall be responsible for verifying soil pressure in the field. If found to be less than 2000 psf, the footings may have to be redesigned.

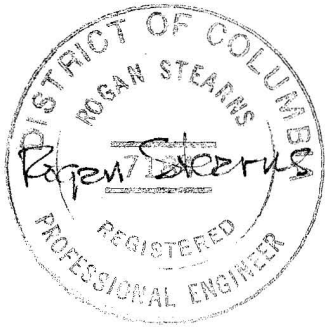
5. Utility lines shall not be placed through or below the foundation unless specifically detailed on the structural drawings, or approved by the structural engineer.

6. The contractor shall ensure that excavations for footings remain dry during construction.

7. All concrete, except as noted, shall be f'c = 3,000 psi, stone-aggregate concrete at 28 days. Horizontal concrete (flatwork) exposed to the weather (and garage slabs) shall be f'c = 3,500 psi. All exterior 3,500 psi concrete shall be air-entrained with 6% air content +- 1.5%. All other exterior concrete (and interior concrete which may be subject to freezing during construction) shall be air-entrained with 4.5% air content +- 1.5%. All exposed corners of slabs, walls, and beams shall be chamfered 1 inch.

8. All structural steel (angles, channels, plates, etc.) shall conform to ASTM A 36. All steel pipe columns shall conform to ASTM A501 furnishing Fy = 36 ksi or ASTM A53, Types E or S, Grade B furnishing Fy = 35 ksi. All steel shall be detailed, fabricated, and erected in accordance with the Code of Standard Practice for Steel Buildings and Bridges (June 10, 1992 Edition). Mill test reports for all steel shall be submitted to the architect.

9. All structural steel shall be hot-dipped galvanized.



10. All shop and field connections shall be by welding or with 3/4" diameter A-325 high strength bolts. In general, field connections shall be bolted and shop connections shall be welded. Connections not detailed shall be designed for Type 2 construction, in accordance with the AISC Manual. Except for composite beams or where reactions are shown, connections shall develop the maximum end reaction using the Uniform Load Constants in Part Two of the AISC Manual for the given beam, grade of steel, and span specified. Welding shall be performed by certified welders in accordance with AWS D1.1 (latest edition). All electrodes shall be E-7OXX, low hydrogen, unless noted otherwise.

11. Grind all exposed welds to provide a smooth surface. Grind exposed edges and corners of base plates to a 1/8" radius minimum to eliminate sharp edges.

12. All welded areas shall be throughly cleaned of all spatter by wire-brushing. All surfaces to cool and clean with solvent wipe. Apply one coat of ZRC Cold Galvanizing Compound or approved equal to attain a minimum of 1.5 mils of dry thickness. Coating should extend at least two inches beyond either side of weldment to ensure complete coverage of weldment area.

13. All steel shall be primed and painted. See Architectural Drawings for additional information.

14. Unless noted otherwise, all embedded anchor bolts shall conform to ASTM A-307, and shall be equipped with washers and hex head nuts.

15. Holes should not be cut in steel members unless indicated on the drawings or approved in writing by Stearns Engineering.

