

SUBJECT

BUILDING TECHNOLOGY II

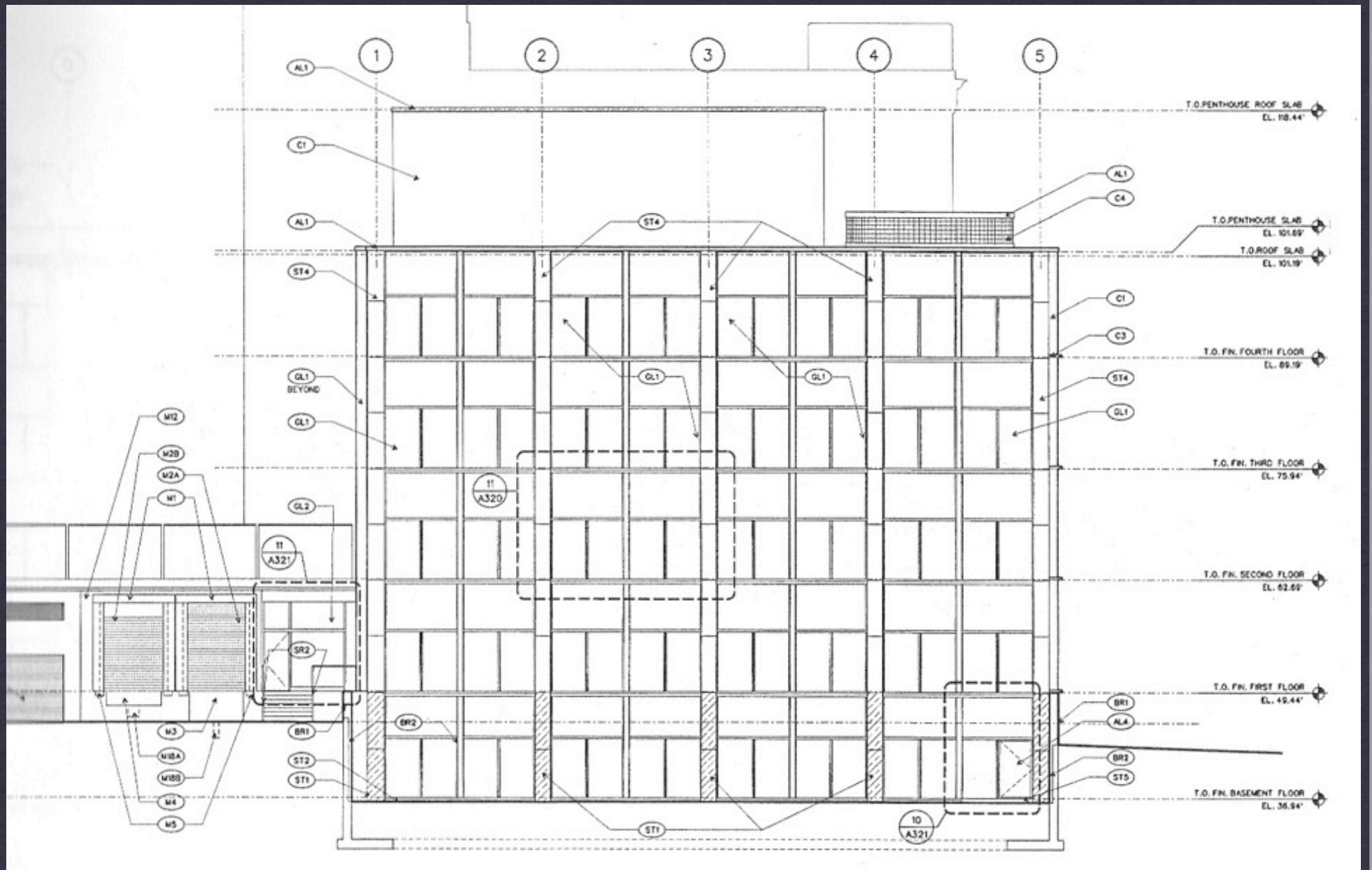
assignment D

DATE

FALL 2012

PROFESSOR

MONTGOMERY



STAIRS

professor Montgomery

floor to floor heights

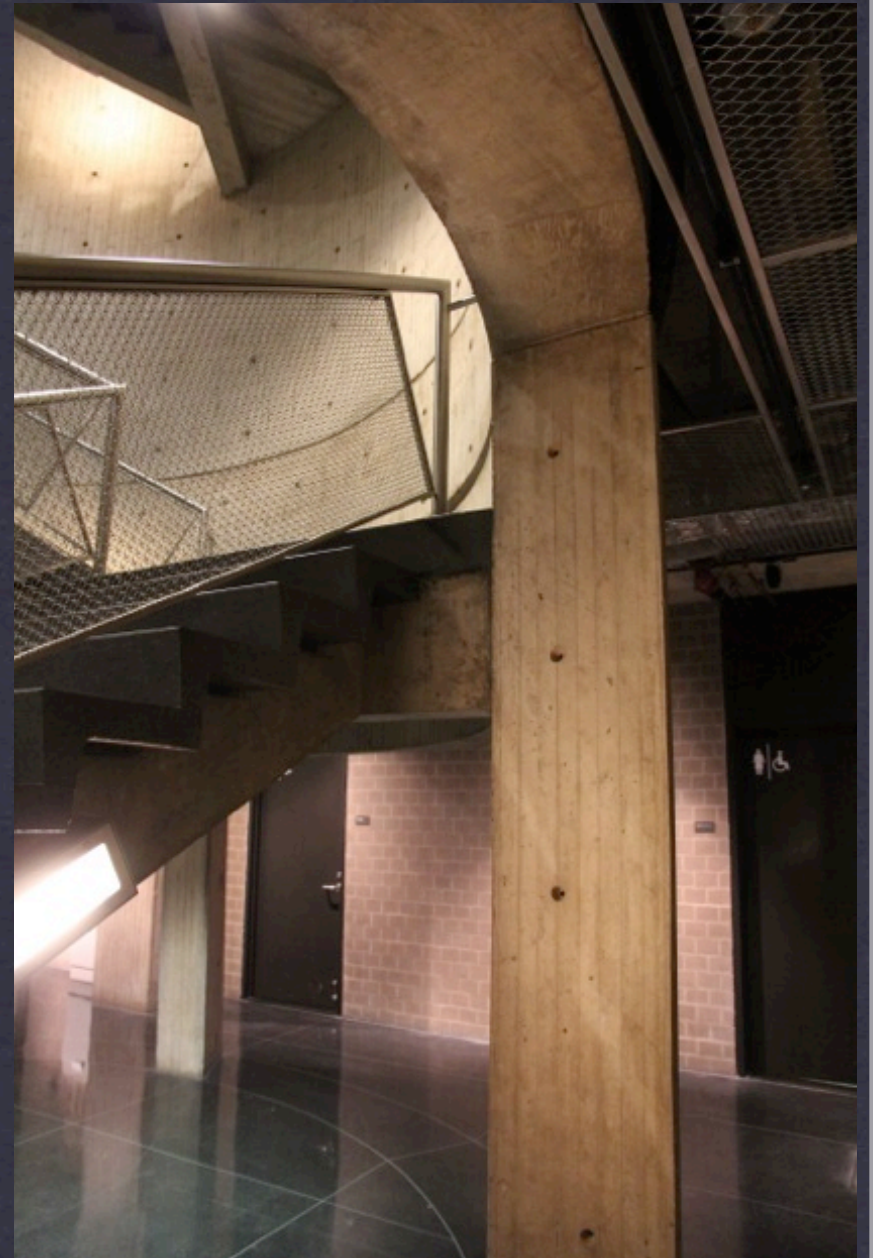
arch 1230



PRIMARY STAIR
professor Montgomery



basement level
arch 1230

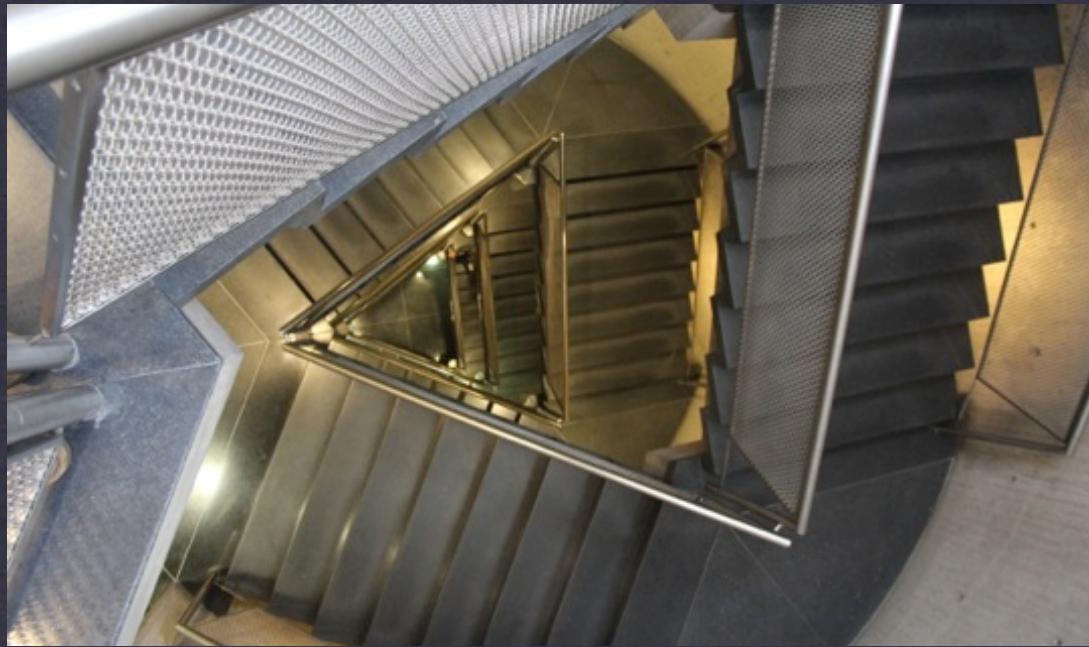


PRIMARY STAIR

professor Montgomery

basement level

arch 1230



PRIMARY STAIR

professor Montgomery

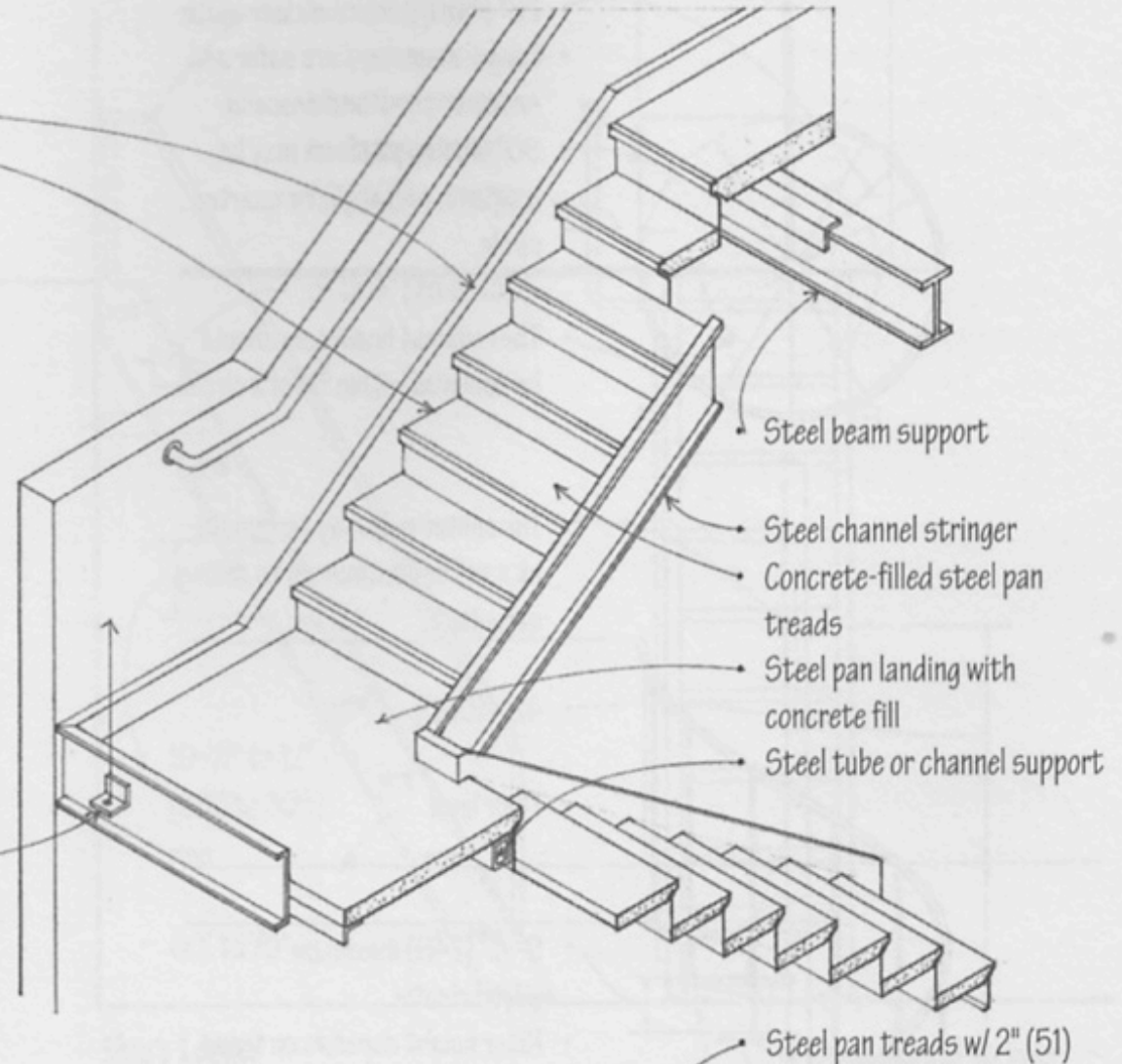
upper level

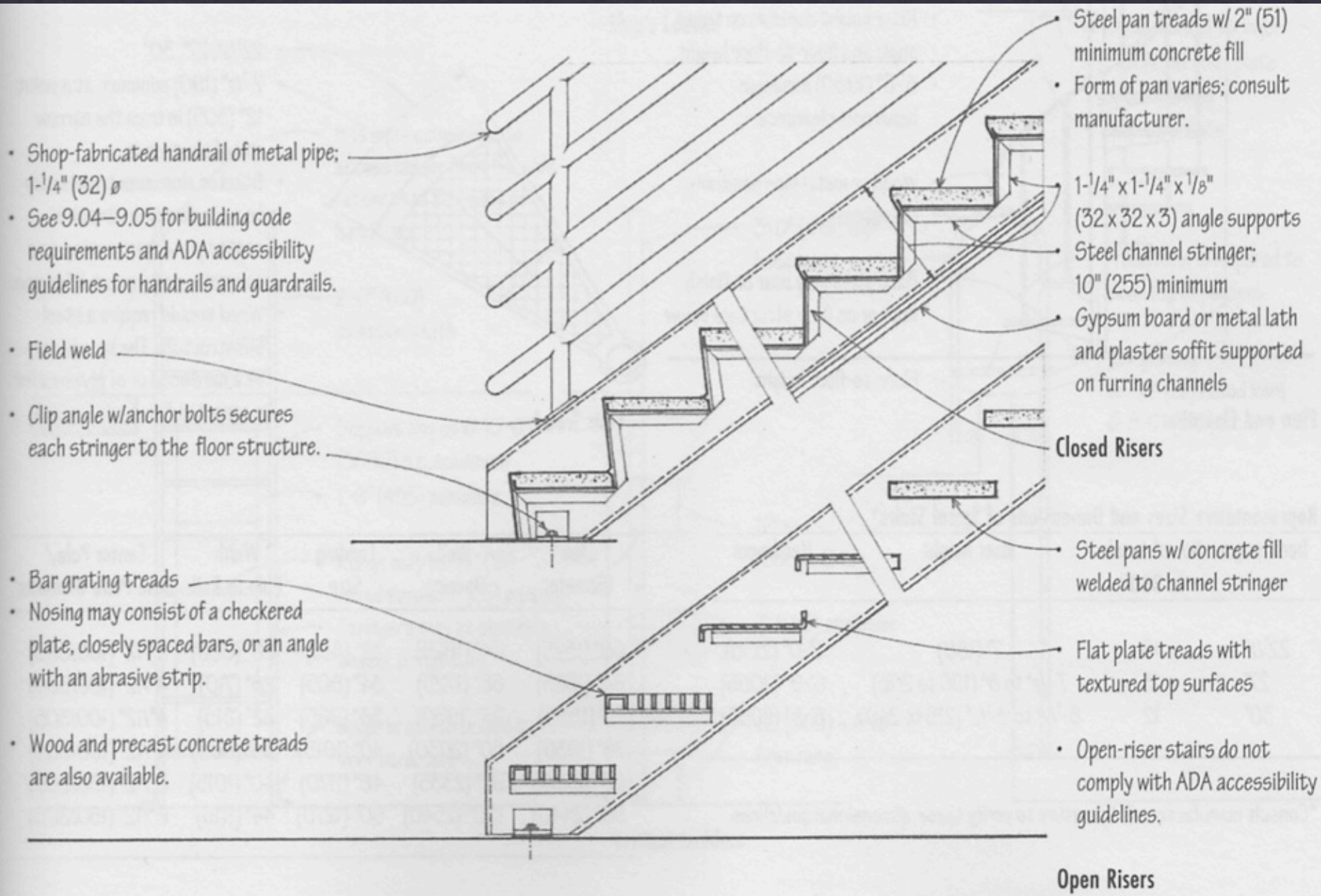
arch 1230

Steel stairs are analogous in form to wood stairs.

- Steel channel sections serve as carriages and stringers.
- Stair treads span the distance between the stringers.
- Treads may consist of concrete-filled steel pans, bar grating, or flat plates with a textured top surface.
- Pre-engineered and prefabricated steel stairs are available.

- Steel channel may rest on a bearing plate on masonry, or be hung on threaded rods from the floor structure above.





assignment D

CASE STUDY #1 STAIRS

PROGRESS PIN UP: OCTOBER 26

DUE: OCTOBER 29

- * 24" x 36" sheet that follows studio standards
- * Required Drawings:
 1. Isometric Views (4)_stair details of primary and egress stair
 - 1.1. one worm's eye view and bird's eye for each stair 1=1'-0"
 - 1.2. show stair structure + framing at landings in isometric views
 - 1.3. show 1.5 floors of stair run at minimum
 - 1.4. design egress stair as steel stair
 2. Stair Sections (2)_basement to roof
 - 2.1. primary stair section 1/2"=1'-0"
 - 2.2. egress stair section 1/2"=1'-0"
 3. Primary Stair Plans (3) at Basement, 1st, 2nd Floors 1/2"=1'-0"
 4. Egress Stair Plans (3) at Basement, 1st, 2nd Floors 1/2"=1'-0"
- * include calculations
- * include a key plan graphic scale, structural grid references, and north arrows for all plans and isometrics
- * all drawings to be fully annotated describing stair construction and dimensions

