

10-11-84
10-3-84
10-5-84
10-8-84

GENERAL NOTES A-2 - A-8
FLOOR PLANS

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. See corresponding reflected ceiling plans for location of doors or openings in partitions.

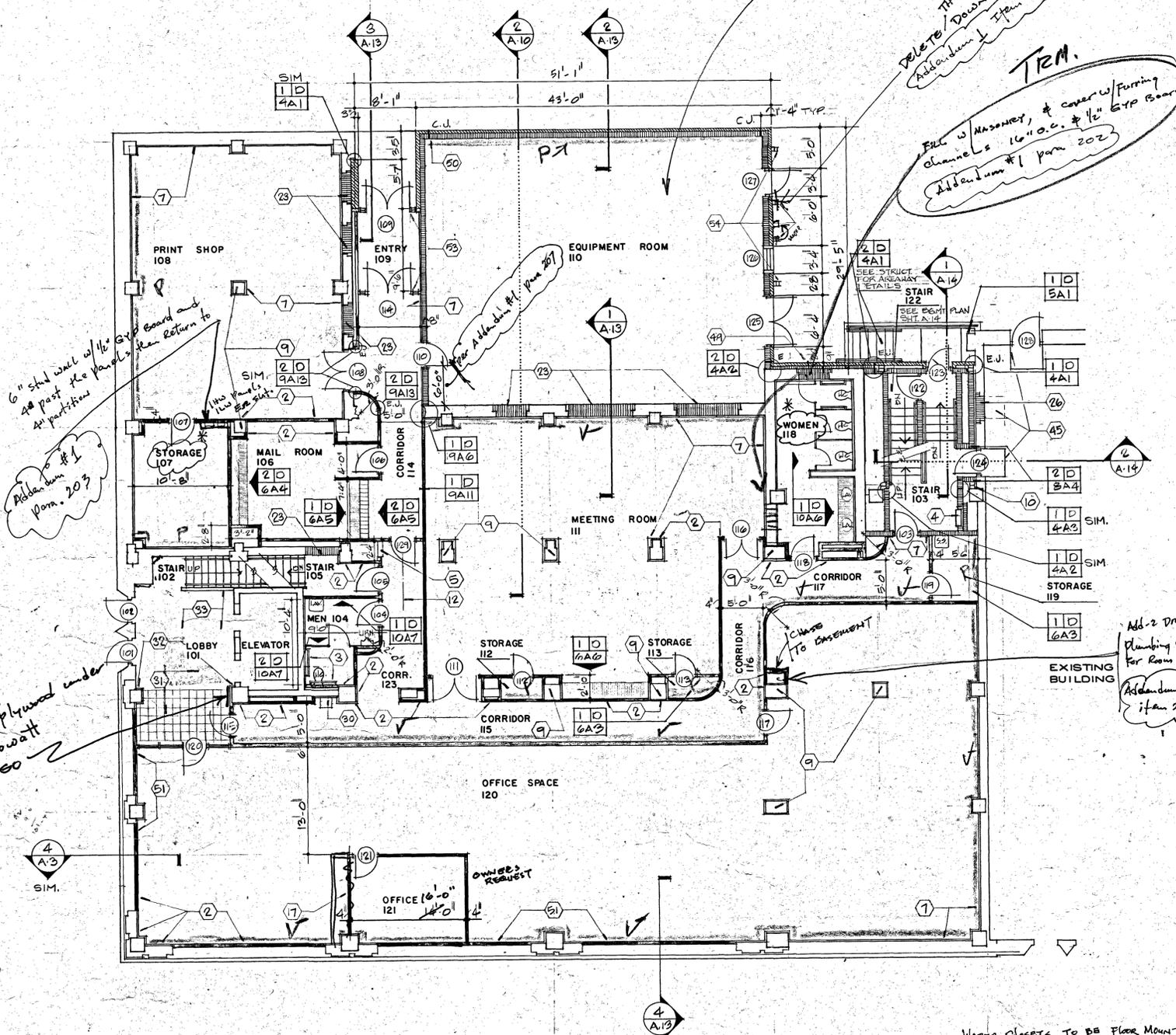


NOTES () FLOOR PLANS
SHEETS A-2 - A-8

1. Centerline of wall equals centerline of mull. See Detail 2-D-883. If conflict occurs between floor plan dimensioning and wall centered on mull, contact the Architect before any construction is begun.
2. Wall location is determined by 7/8" furring channels placed on wall or column. See Detail 3-D-9A1.
3. Grab bars for handicapped.
4. Combination standpipe cabinet - See Sheet A-14, Note #22.
5. Wet standpipe cabinet - see mechanical.
6. 1/2" gypsum board on 3-5/8" metal studs in attic space above. Partition is to begin at top of ceiling and terminate at bottom of structure. See Mechanical drawings for location.
7. 1/2" gypsum board on 7/8" furring channels.
8. Sink.
9. Existing column.
10. New steel column with spray-on fireproofing.
11. Extend furring channels across window opening and cover window with gypsum board. Extend gypsum board above suspended acoustical tile ceiling, so that ventilation is provided for furred space behind window.
12. Centerline of corridor shall equal centerline of light fixture above. See corresponding reflected ceiling plan.
13. Projection portal. See Detail 1-D-6A4.
14. Centerline of ceiling "T" aligns with north face of wall - See corresponding reflected ceiling plan.
15. See Detail 1-D-10A2 and 2-D-10A2 for toilet room dimensions.
16. Remove door to stair and fill with 8" concrete masonry units. Finish to match existing wall.
17. Centerline of wall is equal to centerline of column.
18. Service sink.
19. New electric water cooler.
20. Existing electric water cooler.
21. Field verify dimension so that wall encloses existing pipe chase.
22. Existing pipe chase.
23. Remove existing window or door and fill opening with masonry.
24. Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
25. Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
26. Fill opening with masonry and finish to match existing wall.
27. Centerline of wall shall be located on centerline of ceiling "T". See corresponding reflected ceiling plan.
28. Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
29. Locate face of wall four inches from edge of window jamb.
30. Existing electric water cooler to be relocated at this location.
31. New floor tile in lobby to match existing.
32. See Detail 1-D-9A10 for gypsum board termination at existing wall.
33. Paint all walls, rails, and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
34. New floor tile.
35. See Detail 1-D-6A3.
36. Existing parapet.
37. New stone coping to match existing. See Detail 1-D-4A5.
38. North face of column.
39. Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
40. Verify dimension in field. If a discrepancy exists contact Architect before construction is begun.
41. Existing ramp.
42. New ramp to match existing ramp.
43. Existing computer floor to be relocated at this location.
44. Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
45. Existing ramp to be removed at original opening and new ramps are to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
46. New built-up roof between new stair tower and existing building.
47. Shaft wall this wall only.
48. 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
49. Wall construction at existing building (toilets).
50. Control joints.
51. Existing plate glass show windows to be removed and gypsum board partitions installed in opening.
52. New hoistway doors, sill supports, call buttons, floor indicator, etc., by elev.



RENOVATION
 BUILDING UTILITIES COMPANY
 WEST TEXAS
 ABILENE TEXAS



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

LEGEND

- New GYP Board Partition
- EXISTING WALL TO REMAIN

for contractor. Contractors shall coordinate work required by them with elevator contractor.

53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
54. Downspouts.
55. Dashed area represents approximate sq.ft. of access flooring to be provided under this contract.

Note !!
Vitrile Coverings For Ready Kilowatt Logo

6" stud wall w/ 1/2" GYP Board and 4" past the panels then return to partition
Addendum #1 para 203

SEE COLUMN LOCATIONS SKT. 5-2 FOR CONSTRUCTION ADDENDUM #1 para 207 IN ROOM #110.

DELETE THIS DOWNSPOUT
Addendum #1 para 214
TRM.

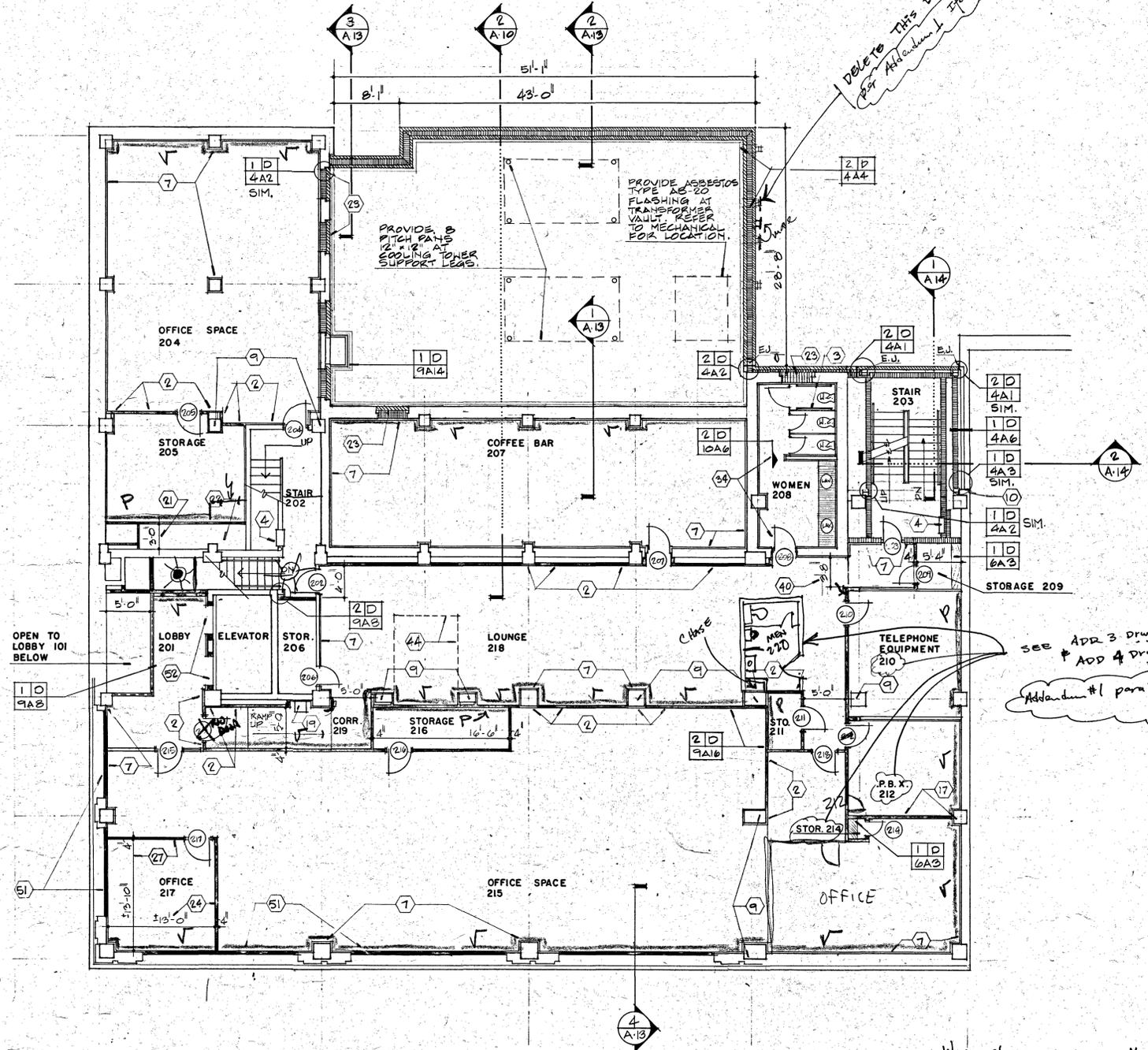
FILL W/ MASONRY, & COVER W/ FURRING CHANNELS 16" O.C. # 1/2" GYP BOARD
Addendum #1 para 202

Add-2 Draw Plumbing Chase For Room 210
Addendum #1 para 207B

WATER CLOSETS TO BE FLOOR MOUNTED
Addendum #1, para 213
651.33 yds. min. to 11
635.33

Addendum #1 para 205

121-8
 2/121-8
 2/13-0.5
 2/13-0.4
 2/13-0.3
 2/13-0.2
 2/13-0.1



SECOND FLOOR PLAN
 AND ROOF PLAN OF EQUIPMENT ROOM 110
 SCALE: 1/8" = 1'-0"

LEGEND
 (Symbol: Dashed line) NEW GYP BOARD PARTITION
 (Symbol: Solid line) EXIST WALL TO REMAIN

726.75 yds
 50.00 yds
 1676.75
 Water closets to be floor mounted per Addendum #1 Item 210
 2080' Room 208 Storage
 750' Vending machines
 960' Coffee Bar counter Area
 770' Room 220 Mens
 460' Toilet Room

Contractors shall coordinate work required by them with elevator contractor.
 53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
 54. Downspouts.
 55. Dashed area represents approximate sq. ft. of access flooring to be provided under this contract.

GENERAL NOTES: A-2 - A-8 FLOOR PLANS
 A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
 B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
 C. See corresponding reflected ceiling plans for location of doors or openings in partitions.

NOTES: FLOOR PLANS SHEETS A-2 - A-8

- Centerline of wall equals centerline of mull. See Detail 2-D-8B3. If conflict occurs between floor plan dimensioning and wall centered on mull, contact the Architect before any construction is begun.
- Wall location is determined by 7/8" furring channels placed on wall or column. See Detail 3-D-9A1.
- Grab bars for handicapped.
- Combination standpipe cabinet - See Sheet A-14, Note #22.
- Wet standpipe cabinet - see mechanical.
- 1/2" gypsum board on 3-5/8" metal studs in attic space above. Partition is to begin at top of ceiling and terminate at bottom of structure. See Mechanical drawings for location.
- 1/2" gypsum board on 7/8" furring channels.
- Sink.
- Existing column.
- New steel column with spray-on fireproofing.
- Extend furring channels across window opening and cover window with gypsum board. Extend gypsum board above suspended acoustical tile ceiling, so that ventilation is provided for ruro space behind window.
- Centerline of corridor shall equal centerline of light fixture above. See corresponding reflected ceiling plan.
- Projection portal. See Detail 1-D-6A4.
- Centerline of ceiling "T" aligns with north face of wall. See corresponding reflected ceiling plan.
- See Detail 1-D-10A2 and 2-D-10A2 for toilet room dimensions.
- Remove door in stair and fill with 8" concrete masonry units. Finish to match existing wall.
- Centerline of wall is equal to centerline of column.
- Service sink.
- New electric water cooler.
- Existing electric water cooler.
- Field verify dimension so that wall encloses existing pipe chase.
- Existing pipe chase.
- Remove existing window or door and fill opening with masonry.
- Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
- Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
- Fill opening with masonry and finish to match existing wall.
- Centerline of wall shall be located on centerline of ceiling plan. See corresponding reflected ceiling plan.
- Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
- Locate face of wall four inches from edge of window jamb.
- Existing electric water cooler to be relocated at this location.
- New floor tile in lobby to match existing.
- See Detail 1-D-9A10 for gypsum board termination at existing wall.
- Paint all walls, rails, and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
- New floor tile.
- See Detail 1-D-6A3.
- Existing parapet.
- New stone coping to match existing. See Detail 1-D-4A5.
- North face of column.
- Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
- Verify dimension in field. If a discrepancy exists contact Architect before construction is begun.
- Existing ramp.
- New ramp to match existing ramp.
- Existing computer floor to be relocated at this location.
- Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
- Existing ramp to be removed at original opening and new ramps to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
- New built-up roof between new stair tower and existing building.
- Shaft wall this wall only.
- 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
- Wall construction at existing building (toilets).
- Control joints.
- Existing plate glass show windows to be removed and gypsum board partitions installed in opening.
- New hotway doors, sill supports, call buttons, floor indicator, etc., by eleva-

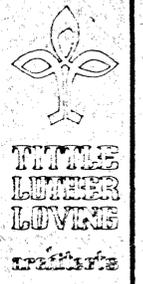


MAIN BUILDING WEST TEXAS UTILITIES COMPANY ABILENE, TEXAS RENOVATION COMPANY TEXAS

DEVELOPMENT
 31 - 1.7
 13 - 2.3 RM
 25 - 1.0 RM
 31 - 3.0 SN
 16 - 2.0 SN
 20 - 2.0 SN
 28 - 5.0

GENERAL NOTES: A.2 - A.8
 FLOOR PLANS

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- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. See corresponding reflected ceiling plans for location of doors or openings in partitions.



NOTES: FLOOR PLANS
 SHEETS A.2 - A.8

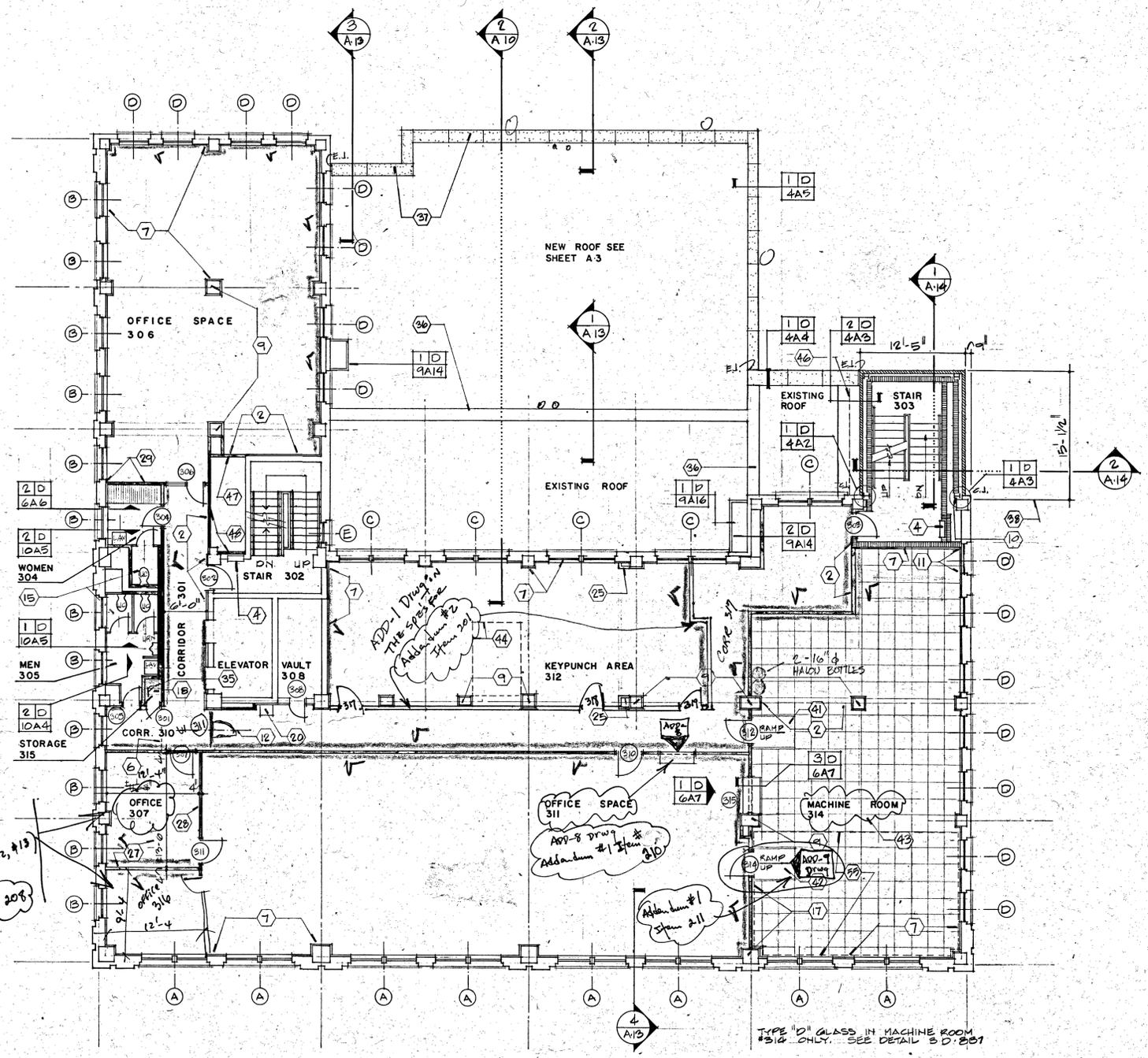
1. Centerline of wall equals centerline of mull. See Detail 2-0-8B3. If conflict occurs between floor plan dimensioning and wall centered on mull, contact the Architect before any construction is begun.
2. Wall location is determined by 7/8" furring channels placed on wall or column. See Detail 3-0-9A1.
3. Grab bars for handicapped.
4. Combination standpipe cabinet - See Sheet A-14, Note #22.
5. Wet standpipe cabinet - see mechanical.
6. 1/2" gypsum board on 3-5/8" metal studs in attic space above. Partition is to begin at top of ceiling and terminate at bottom of structure. See Mechanical drawings for location.
7. 1/2" gypsum board on 7/8" furring channels.
8. Sink.
9. Existing column.
10. New steel column with spray-on fireproofing.
11. Extend furring channels across window opening and cover window with gypsum board. Extend gypsum board above suspended acoustical tile ceiling, so that ventilation is provided for furred space behind window.
12. Centerline of corridor shall equal centerline of light fixture above. See corresponding reflected ceiling plan.
13. Projection portal. See Detail 1-0-6A4.
14. Centerline of ceiling "T" aligns with north face of wall - See corresponding reflected ceiling plan.
15. See Detail 1-0-10A2 and 2-0-10A2 for collect room dimensions.
16. Remove door in stair and fill with 8" concrete masonry units. Finish to match existing wall.
17. Centerline of wall is equal to centerline of column.
18. Service sink.
19. New electric water cooler.
20. Existing electric water cooler.
21. Field verify dimension so that wall encloses existing pipe chase.
22. Existing pipe chase.
23. Remove existing window or door and fill opening with masonry.
24. Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
25. Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
26. Fill opening with masonry and finish to match existing wall.
27. Centerline of wall shall be located on centerline of ceiling "T". See corresponding reflected ceiling plan.
28. Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
29. Locate face of wall four inches from edge of window jamb.
30. Existing electric water cooler to be relocated at this location.
31. New floor tile in lobby to match existing.
32. See Detail 1-0-9A10 for gypsum board termination at existing wall.
33. Paint all walls, doors and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
34. New floor tile.
35. See Detail 1-0-6A3.
36. Existing parapet.
37. New stone coping to match existing. See Detail 1-0-4B5.
38. North face of column.
39. Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
40. Verify dimension in field. If a discrepancy exists, contact Architect before construction is begun.
41. Existing ramp.
42. New ramp to match existing ramp.
43. Existing computer floor to be relocated at this location.
44. Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
45. Existing ramp to be removed at original opening and new ramps are to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
46. New built-up roof between new stair tower and existing building.
47. Shaft wall this wall only.
48. 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
49. Wall construction at existing building (collets).
50. Control joints.
51. Existing plate glass show windows to be removed and gypsum board partitions installed in opening.

A.1.A
 340 BELLEVUE
 ABILENE, TEXAS
 79601
 AC 915 672 8178



John A. Hoff
 427

RENOVATION
 BUILDING UTILITIES COMPANY
 TEXAS
 MAIN WEST ABILENE



*Rework Room # 307
 & ADD Room # 316
 (See ADD sheets 10, 11, 12, 13)
 Addendum #1 Item 208*

*ADD-1 Divert in
 Tile space for
 Addendum #2
 Item 201*

*OFFICE SPACE
 314
 ADD-8 DRAWING
 Addendum #1 Item 210*

*Addendum #1
 Item 211*

*WATER CLOSETS TO BE FLOOR MOUNTED
 per Addendum #1, Item 218*

552 yds

THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

LEGEND

- NEW GYP BOARD PARTITION
- EXIST. WALL TO REMAIN

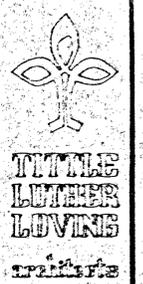
52. New hoistway doors, sill supports, call buttons, floor indicator, etc., by elevator contractor. Contractors shall coordinate work required by them with elevator contractor.
53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
54. Downspouts.
55. Dashed area represents approximate sq.ft. of access flooring to be provided under this contract.

*213 office door
 209 office door*

0.
 1.6-11/16
 0.5V
 0.5V
 0.5V

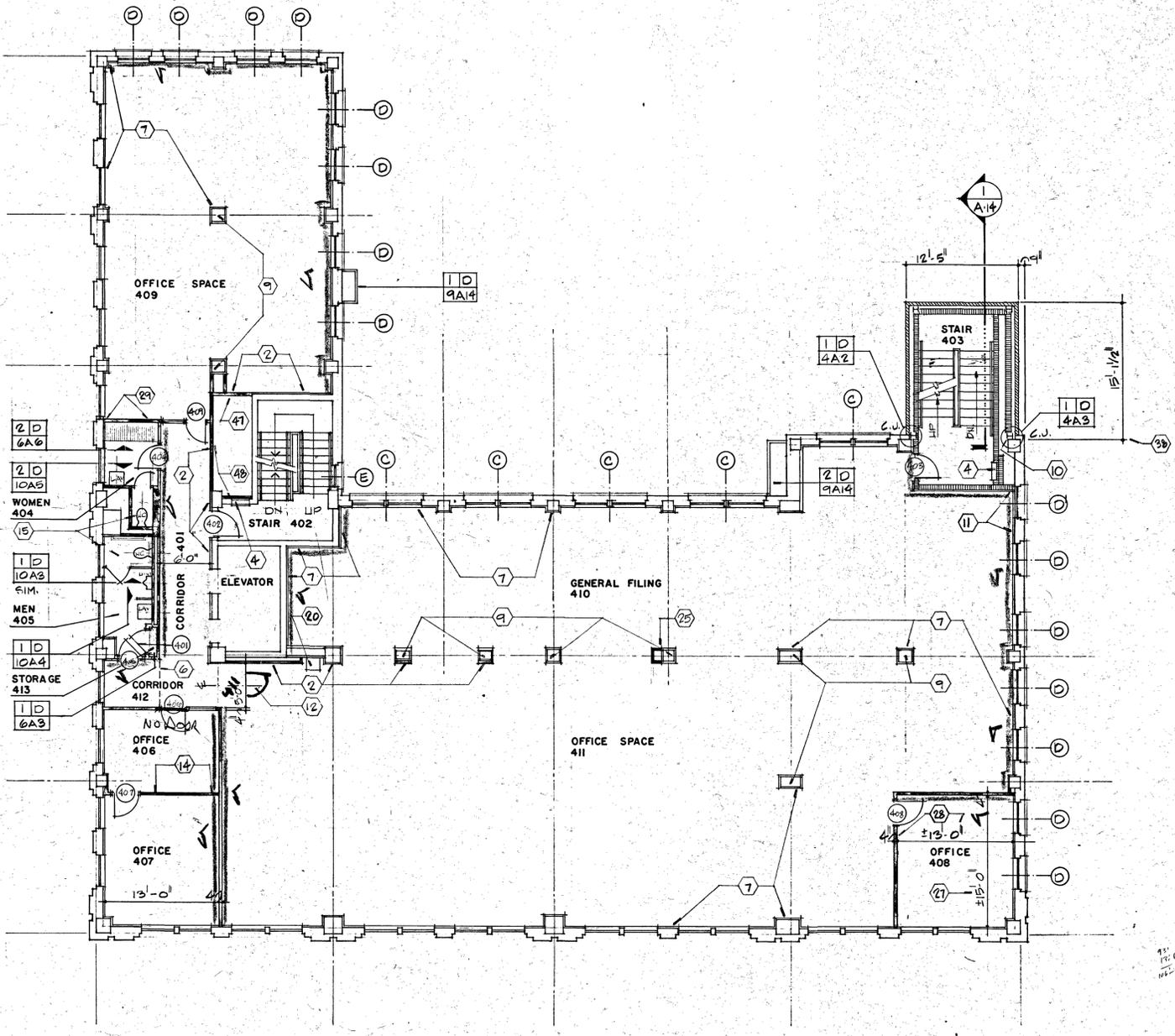
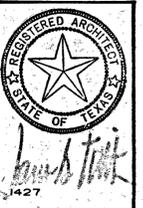
GENERAL NOTES: A-2 - A-8
 FLOOR PLANS

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. See corresponding reflected ceiling plans for location of doors or openings in partitions.



NOTES: FLOOR PLANS
 SHEETS A-2 - A-8

1. Centerline of wall equals centerline of mull. See Detail 2-D-8B3. If conflict occurs between floor plan dimensioning and wall centered on mull, contact the Architect before any construction is begun.
2. Wall location is determined by 7/8" furring channels placed on wall or column. See Detail 3-D-9A1.
3. Grab bars for handicapped.
4. Combination standpipe cabinet - See Sheet A-14, Note #22.
5. Wet standpipe cabinet - see mechanical.
6. 1/2" gypsum board on 3-5/8" metal studs in attic space above. Partition is to begin at top of ceiling and terminate at bottom of structure. See Mechanical drawings for location.
7. 1/2" gypsum board on 7/8" furring channels.
8. Sink.
9. Existing column.
10. New steel column with spray-on fireproofing.
11. Extend furring channels across window opening and cover window with gypsum board. Extend gypsum board above suspended acoustical tile ceiling, so that ventilation is provided for furred space behind window.
12. Centerline of corridor shall equal centerline of light fixture above. See corresponding reflected ceiling plan.
13. Projection portal. See Detail 1-D-6A4.
14. Centerline of ceiling "T" aligns with north face of wall - See corresponding reflected ceiling plan.
15. See Detail 1-D-10A2 and 2-D-10A2 for toilet room dimensions.
16. Remove door in stair and fill with 8" concrete masonry units. Finish to match existing wall.
17. Centerline of wall is equal to centerline of column.
18. Service sink.
19. New electric water cooler.
20. Existing electric water cooler.
21. Field verify dimension so that wall encloses existing pipe chase.
22. Existing pipe chase.
23. Remove existing window or door and fill opening with masonry.
24. Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
25. Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
26. Fill opening with masonry and finish to match existing wall.
27. Centerline of wall shall be located on centerline of ceiling "T". See corresponding reflected ceiling plan.
28. Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
29. Locate face of wall four inches from edge of window jamb.
30. Existing electric water cooler to be relocated at this location.
31. New floor tile in lobby to match existing.
32. See Detail 1-D-9A10 for gypsum board termination at existing wall.
33. Paint all walls, rails, and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
34. New floor tile.
35. See Detail 1-D-6A3.
36. Existing parapet.
37. New stone coping to match existing. See Detail 1-D-4A5.
38. North face of column.
39. Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
40. Verify dimension in field. If a discrepancy exists contact Architect before construction is begun.
41. Existing ramp.
42. New ramp to match existing ramp.
43. Existing computer floor to be relocated at this location.
44. Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
45. Existing ramp to be removed at original opening and new ramps are to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
46. New built-up roof between new stair tower and existing building.
47. Shaft wall this wall only.
48. 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
49. Wall construction at existing building (toilets).
50. Control joints.
51. Existing plate glass show windows to be removed and gypsum board partitions installed in opening.
52. New hoistway doors, sill supports, call buttons, floor indicator, etc., by eleva-



FOURTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SEE SHEET A-4 FOR WINDOW TYPES ON SOUTH AND WEST ELEVATIONS.

- LEGEND**
- NEW PARTITIONS OF GYP BOARD
 - EXIST. WALL TO REMAIN

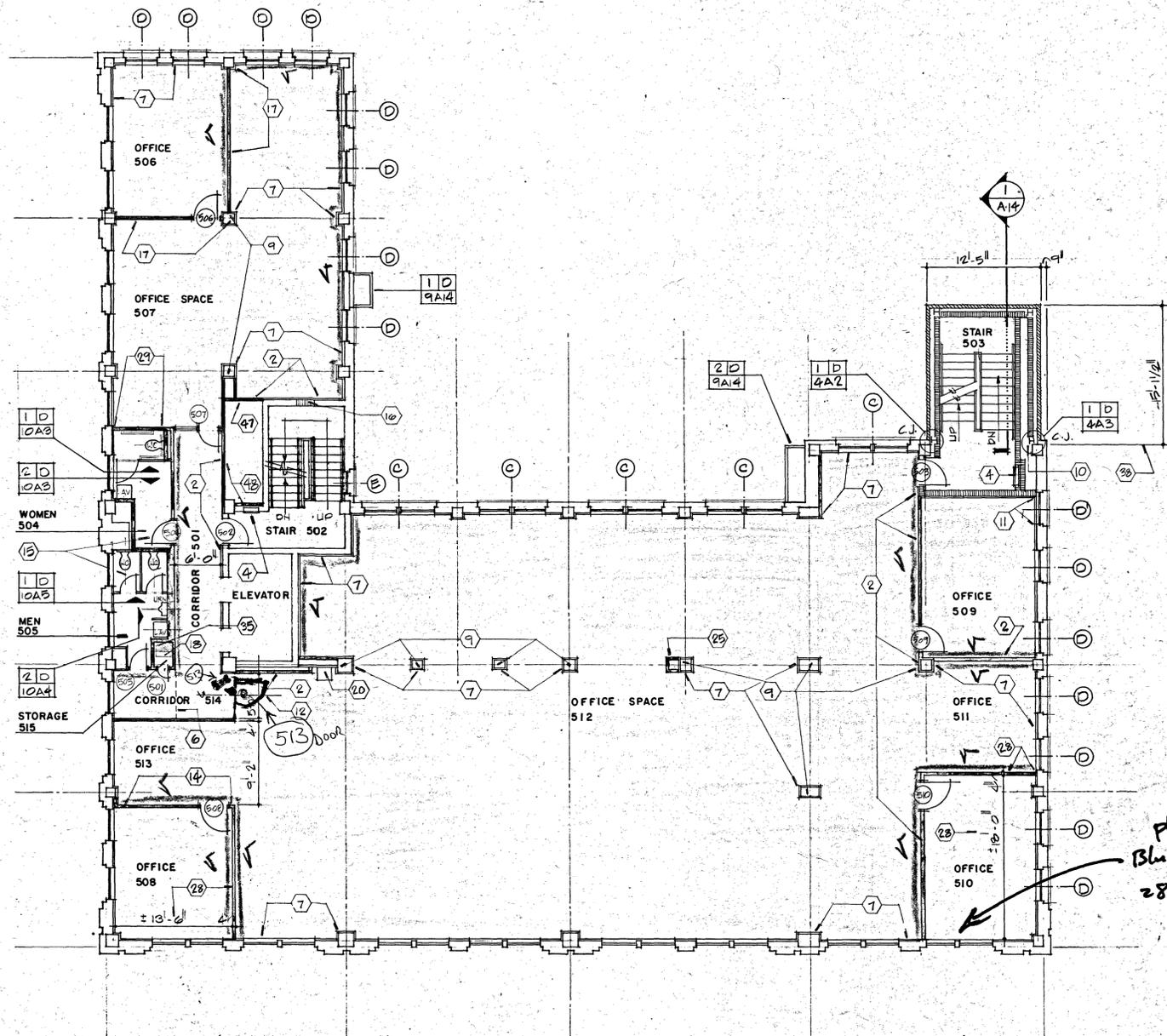
Water Closets to be floor mounted per Addendum #1 Item 213

Addendum #1 para 205
 682.66 405

for contractor. Contractors shall coordinate work required by them with elevator contractor.
 53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
 54. Downspouts.
 55. Dashed area represents approximate sq.ft. of access flooring to be provided under this contract.

RENOVATION BUILDING UTILITIES COMPANY TEXAS
 MAIN WEST TEXAS ABILENE

2/18/81 - 2.5
 W.D.
 3/31/81 - 4 hr
 4/14/81 - 1.2 hr
 O.B. SW



FIFTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SEE SHEET A-4 FOR WINDOW TYPES ON SOUTH AND WEST ELEVATIONS.

LEGEND

- NEW GYP BOARD PARTITION
- EXIST. WALL TO REMAIN

654. 66 449.
 Addendum #1 para 205

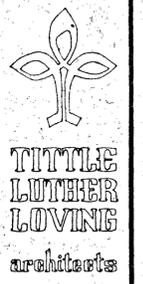
Water closet to be floor mounted per Addendum #1 Item 213

Flush Blue carpet 28 46:

48
 x 90
 4320
 25
 x 40
 1000
 510
 45
 82

buttons, floor indicator, etc., by elevator contractor. Contractors shall coordinate work required by them with elevator contractor.
 53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
 54. Downspouts.
 55. Dashed area represents approximate sq. ft. of access flooring to be provided under this contract.

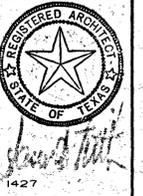
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NOTES: FLOOR PLANS SHEETS A-2 - A-8

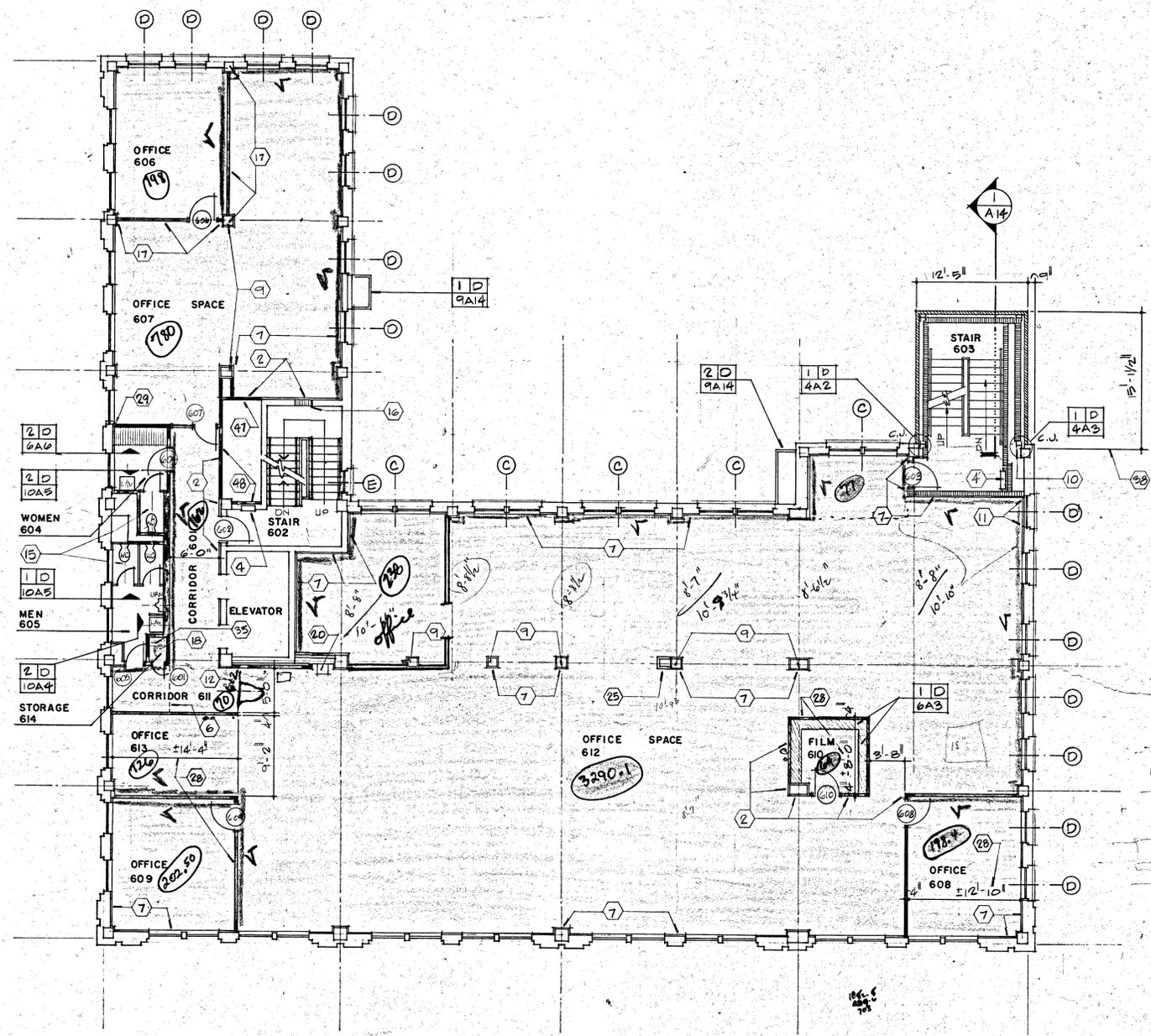
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13. Projection portal. See Detail 1-D-6A4.
14. Centerline of ceiling "T" aligns with north face of wall - See corresponding reflected ceiling plan.
15. See Detail 1-D-10A2 and 2-D-10A2 for toilet room dimensions.
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19. New electric water cooler.
20. Existing electric water cooler.
21. Field verify dimension so that wall encloses existing pipe chase.
22. Existing pipe chase.
23. Remove existing window or door and fill opening with masonry.
24. Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
25. Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
26. Fill opening with masonry and finish to match existing wall.
27. Centerline of wall shall be located on centerline of ceiling "T". See corresponding reflected ceiling plan.
28. Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
29. Locate face of wall four inches from edge of window jamb.
30. Existing electric water cooler to be relocated at this location.
31. New floor tile in lobby to match existing.
32. See Detail 1-D-9A10 for gypsum board termination at existing wall.
33. Paint all walls, rails, and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
34. New floor tile.
35. See Detail 1-D-6A3.
36. Existing ramp.
37. New stone coping to match existing. See Detail 1-D-4A5.
38. North face of column.
39. Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
40. Verify dimension in field. If a discrepancy exists contact Architect before construction is begun.
41. Existing ramp.
42. New ramp to match existing ramp.
43. Existing computer floor to be relocated at this location.
44. Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
45. Existing ramp to be removed at original opening and new ramps are to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
46. New built-up roof between new stair tower and existing building.
47. Shaft wall this wall only.
48. 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
49. Wall construction at existing building (toilets).
50. Control joints.
51. Existing plate glass show windows to be removed and gypsum board partitions installed in opening.
52. New hoistway doors, sill supports, call

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 AC 915 673 0178



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 BUILDING UTILITIES COMPANY TEXAS
 MAIN WEST TEXAS ABILENE

2/17/81 - 3.5
 2/27/81 4
 3/20/81 2
 All - 1 & 2
 1 No. TRM
 0.8 EV



SIXTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SEE SHEET A-4 FOR WINDOW TYPES ON SOUTH AND WEST ELEVATIONS.

LEGEND

- NEW GYP BOARD PARTITIONS
- EXIST. WALL TO REMAIN

Addendum #1 para 205

682.66 yds.

Water Closets To BE Floor Mounted per Addendum #1 Item 213

tor contractor. Contractors shall coordinate work required by them with elevator contractor.
 53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
 54. Downspouts.
 55. Dashed area represents approximate sq.ft. of access flooring to be provided under this contract.

GENERAL NOTES: A-2 - A-8 FLOOR PLANS

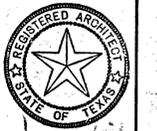
- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. See corresponding reflected ceiling plans for location of doors or openings in partitions.



NOTES: FLOOR PLANS SHEETS A-2 - A-8

1. Centerline of wall equals centerline of mull. See Detail 2-0-8B3. If conflict occurs between floor plan dimensioning and wall centered on mull, contact the Architect before any construction is begun.
2. Wall location is determined by 7/8" furring channels placed on wall or column. See Detail 3-0-9A1.
3. Grab bars for handicapped.
4. Combination standpipe cabinet - See Sheet A-14, Note #22.
5. Wet standpipe cabinet - see mechanical.
6. 1/2" gypsum board on 3-5/8" metal studs in attic space above. Partition is to begin at top of ceiling and terminate at bottom of structure. See Mechanical drawings for location.
7. 1/2" gypsum board on 7/8" furring channels.
8. Sink.
9. Existing column.
10. New steel column with spray-on fireproofing.
11. Extend furring channels across window opening and cover window with gypsum board. Extend gypsum board above suspended acoustical tile ceiling, so that ventilation is provided for furred space behind window.
12. Centerline of corridor shall equal centerline of light fixture above. See corresponding reflected ceiling plan.
13. Projection portal. See Detail 1-0-6A4.
14. Centerline of ceiling "T" aligns with north face of wall. See corresponding reflected ceiling plan.
15. See Detail 1-0-10A2 and 2-0-10A2 for toilet room dimensions.
16. Remove door in stair and fill with 8" concrete masonry units. Finish to match existing wall.
17. Centerline of wall is equal to centerline of column.
18. Service sink.
19. New electric water cooler.
20. Existing electric water cooler.
21. Field verify dimension so that wall encloses existing pipe chase.
22. Existing pipe chase.
23. Remove existing window or door and fill opening with masonry.
24. Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
25. Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
26. Fill opening with masonry and finish to match existing wall.
27. Centerline of wall shall be located on centerline of ceiling "T". See corresponding reflected ceiling plan.
28. Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
29. Locate face of wall four inches from edge of window jamb.
30. Existing electric water cooler to be relocated at this location.
31. New floor tile in lobby to match existing.
32. See Detail 1-0-9A10 for gypsum board termination at existing wall.
33. Paint all walls, rails, and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
34. New floor tile.
35. See Detail 1-0-6A3.
36. Existing parapet.
37. New stone coping to match existing. See Detail 1-0-4A5.
38. North face of column.
39. Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
40. Verify dimension in field. If a discrepancy exists contact Architect before construction is begun.
41. Existing ramp.
42. New ramp to match existing ramp.
43. Existing computer floor to be relocated at this location.
44. Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
45. Existing ramp to be removed at original opening and new ramps are to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
46. New built-up roof between new stair tower and existing building.
47. Shaft wall this wall only.
48. 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
49. Wall construction at existing building (toilets).
50. Control joints.
51. Existing plate glass show windows to be removed and gypsum board partitions installed in opening.
52. New hoistway doors, sill supports, call buttons, floor indicator, etc. by eleva-

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100-
 1/13-15
 1/16-82
 1/25-08 87
 1/26-2 88
 1/27-5.5 84
 1/16-1.2 704
 1/15-1 704
 2.8 81

GENERAL NOTES: A2-A8
 FLOOR PLANS

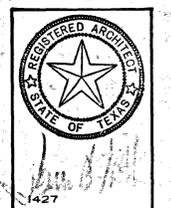
- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. See corresponding reflected ceiling plans for location of doors or openings in partitions.



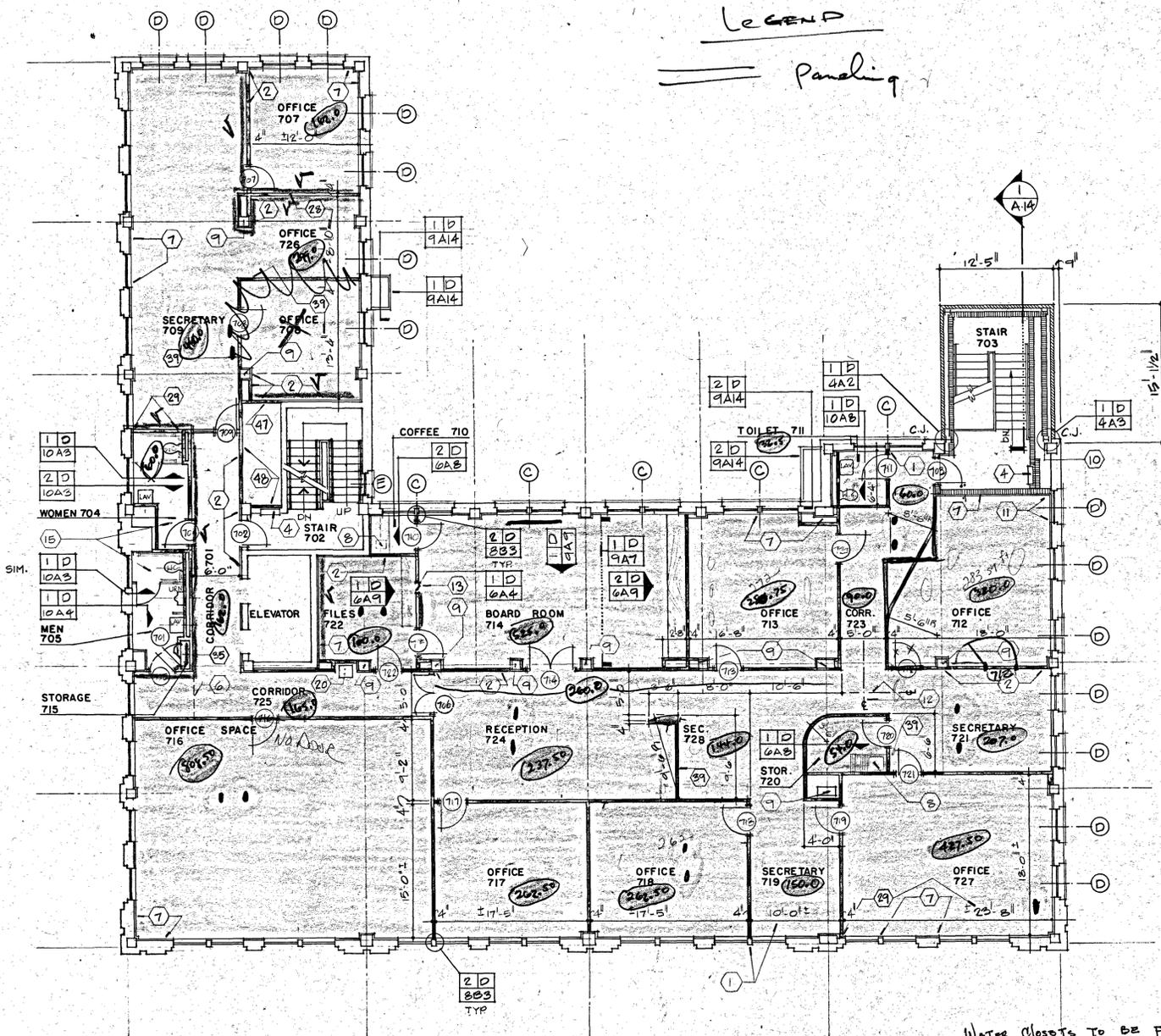
NOTES: FLOOR PLANS
 SHEETS A2-A8

1. Centerline of wall equals centerline of mull. See Detail 2-D-8B3. If conflict occurs between floor plan dimensioning and wall centered on mull, contact the Architect before any construction is begun.
2. Wall location is determined by 7/8" furring channels placed on wall or column. See Detail 3-D-9A1.
3. Grab bars for handicapped.
4. Combination standpipe cabinet - See Sheet A-14, Note #22.
5. Wet standpipe cabinet - see mechanical.
6. 1/2" gypsum board on 3-5/8" metal studs in attic space above. Partition is to begin at top of ceiling and terminate at bottom of structure. See Mechanical drawings for location.
7. 1/2" gypsum board on 7/8" furring channels.
8. Sink.
9. Existing column.
10. New steel column with spray-on fireproofing.
11. Extend furring channels across window opening and cover window with gypsum board. Extend gypsum board above suspended acoustical tile ceiling, so that ventilation is provided for furred space behind window.
12. Centerline of corridor shall equal centerline of light fixture above. See corresponding reflected ceiling plan.
13. Projection portal. See Detail 1-D-6A4.
14. Centerline of ceiling "T" aligns with north face of wall - See corresponding reflected ceiling plan.
15. See Detail 1-D-10A2 and 2-D-10A2 for toilet room dimensions.
16. Remove door in stair and fill with 8" concrete masonry units. Finish to match existing wall.
17. Centerline of wall is equal to centerline of column.
18. Service sink.
19. New electric water cooler.
20. Existing electric water cooler.
21. Field verify dimension so that wall encloses existing pipe chase.
22. Existing pipe chase.
23. Remove existing window or door and fill opening with masonry.
24. Field verify dimension so that new gypsum board partition will align with gypsum board on 7/8" furring channels on face of beam above. See corresponding reflected ceiling plan.
25. Plumbing and mechanical chase as required. Extend gypsum board partition tight around piping. See Mech. plans.
26. Fill opening with masonry and finish to match existing wall.
27. Centerline of wall shall be located on centerline of ceiling "T". See corresponding reflected ceiling plan.
28. Centerline of wall shall be located on centerline of acoustical tile. See corresponding reflected ceiling plan.
29. Locate face of wall four inches from edge of window jamb.
30. Existing electric water cooler to be relocated at this location.
31. New floor tile in lobby to match existing.
32. See Detail 1-D-9A10 for gypsum board termination at existing wall.
33. Paint all walls, rails, and trim as directed by the Architect in Lobby 101 and Stair 102. Color as selected by the Architect.
34. New floor tile.
35. See Detail 1-D-6A3.
36. Existing parapet.
37. New stone coping to match existing. See Detail 1-D-4A5.
38. North face of column.
39. Face of gypsum board shall align with centerline of ceiling "T". See corresponding reflected ceiling plan.
40. Verify dimension in field. If a discrepancy exists contact Architect before construction is begun.
41. Existing ramp.
42. New ramp to match existing ramp.
43. Existing computer floor to be relocated at this location.
44. Dashed line represents existing stair to be removed and new floor slab installed. See Structural.
45. Existing ramp to be removed at original opening and new ramps are to be constructed at Doors #124 and #128. Construct new ramps similar to the original ramp or as directed by Architect. Floor finish to match existing.
46. New built-up roof between new stair tower and existing building.
47. Shaft wall this wall only.
48. 2 layer 1/2" fire rated gypsum board on both sides of a 3-5/8" metal stud. Exterior fire rated gypsum board on corridor side will align with gypsum board applied to 7/8" furring channels on existing walls.
49. Wall construction at existing building (toilets).
50. Control Joints.
51. Existing plate glass show windows to be removed and gypsum board partitions installed in opening.
52. New hoistway doors, sill supports, call buttons, floor indicator, etc., by eleva-

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LEGEND
 Paneling



SEVENTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SEE SHEET A-4 FOR WINDOW TYPES ON SOUTH AND WEST ELEVATIONS.

- LEGEND
- NEW GYP BOARD PARTITION
 - EXIST. WALL TO REMAIN

LEAKS FOLLOW JUN 29, 1982 RAINS;
 ALL THREAD ROD HANGERS FOR FAN-COILS;
 AND (4) FOUR 8" DIA HOLES BY Trinity Sprinkler Sys.

for contractor. Contractors shall coordinate work required by them with elevator contractor.
 53. Doors #109 and 114, suspended acoustical tile ceiling, wall finish, and floor finish to be installed after removal of existing transformer.
 54. Downspouts.
 55. Dashed area represents approximate sq. ft. of access flooring to be provided under this contract.

Water closets to be floor mounted per Addendum #1 Item 213
 269. 270. 271. Burgundy carpet patterned
 272. 273. Burgundy solid plastic 70 oz. Board Room
 274. Burgundy " " 50 oz office Areas

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 WEST TEXAS
 ABILENE TEXAS

- 63. Masonry control joint. Cut wall reinf. at face brick and extend through joint in concrete block. Caulk joint on both exterior and interior.
- 64. Type "B" waterproofing, extend across existing soffit, bottom of precast cap and turn down a minimum of 8" on precast panel. Extend continuous between existing brick pilasters.
- 65. Waterproofing inside face of vertical joints in existing precast concrete panels with 8" wide strip of Type "B" waterproofing.
- 66. Type "A" insulation (two layers.)
- 67. Gypsum board furring around existing concrete beam. (See Reflected Ceiling Plan). Remove existing plaster from beam and provide as much head room under beam as possible and as approved by the Architect.
- 68. 3/4" channel bracing at 4'-0" o.c. max.
- 69. Spray-on fireproofing on new steel beams, angles, channels, plate connectors, etc. as specified.
- 70. #5 bars at 2'-8" o.c. Extend vertical in block cell and fill with mortar. Bars may be spliced by lapping 20".

GENERAL NOTES: A-9-A-14

A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.

B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.



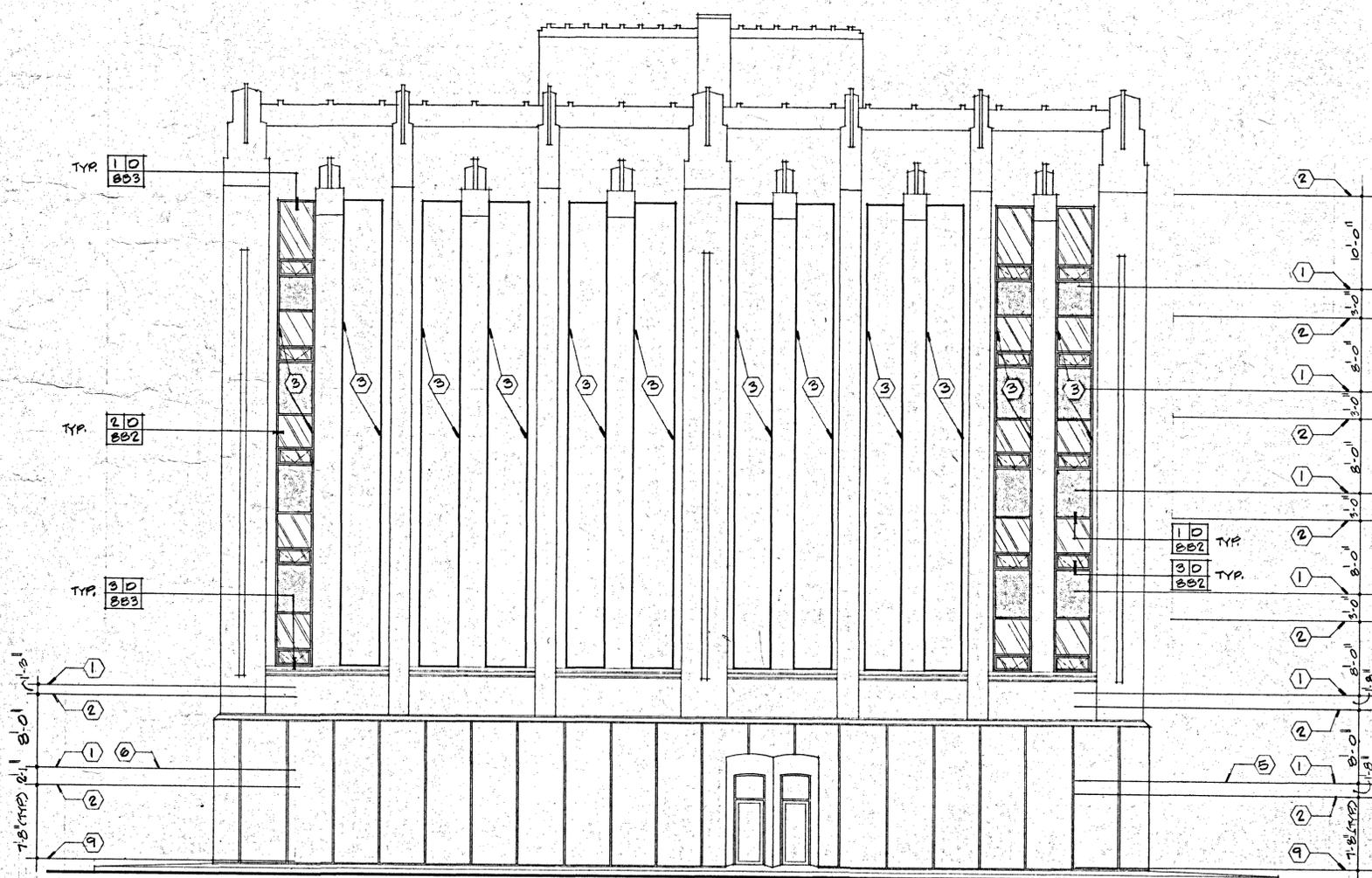
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NOTES SHEETS A-9-A-13

1. Top of slab. (Floor line)
2. Finished ceiling line.
3. New aluminum frame, vents, and glass. See curtainwall and window schedule.
4. Remove existing air conditioning grilles and fill openings with face brick. Paint to match existing wall color.
5. New second floor.
6. Existing second floor.
7. Existing parapet.
8. New stone coping to match existing stone coping.
9. 1st Floor - top of slab.
10. Top of parapet.
11. Dashed line represents existing parapet.
12. See Elevation 3-A10 for new equipment room addition.
13. Remove existing windows and fill opening with masonry. Finish to match existing wall.
14. Top of parapet - to match top of existing parapet.
15. High point of roof deck.
16. Low point of roof deck.
17. 4 x 6 downspout with cast iron boots to match existing downspouts.
18. Leaderhead to match existing leaderheads.
19. 3 x 12 scupper with 3/16" steel plate lintel.
20. Dashed line represents top of roof.
21. Type "A" insulation (one layer).
22. See Room Finish Schedule for base and finish floor.
23. 1/2" gypsum board on 7/8" furring channels @ 16" o.c.
24. Beam - See Structural.
25. New foundation - See Structural.
26. Existing concrete tunnel.
27. Dashed line represents existing ceiling to be removed.
28. Field verify dimension so that top of new stone coping will match top of existing stone coping.
29. Face brick. Paint and texture to match existing wall.
30. L.W.C. block.
31. 12" x 12" concrete beam with 2 - #5 bars top and bottom with #3 ties at 18" o.c.
32. L.W.C. block beam with 2 - #4 bars cont. fill with concrete - cut reinforcing at C.J. (See elevation for C.J. location).
33. Type "B" waterproofing.
34. Gypsum deck on 1/2" formboard.
35. 1/2" gypsum board on 3-5/8" metal studs.
36. Column beyond.
37. Shaded area represents existing structure.
38. Suspended acoustical tile ceiling.
39. Double rowlock header.
40. Bottom of soffit.
41. Firestop continuous between existing brick pilasters. Construction to be 3-5/8" metal runners, 2 layers of 1/2" fire rated gypsum board each side of runner with 1-1/2" thick sound insulation.
42. Edge of existing precast concrete panel.
43. Rigid insulation board.
44. Masonry reinforcing at 16" o.c.
45. Weep holes at 3'-4" o.c.
46. Extend Type "B" waterproofing on to cover brick shelf.
47. 1/4" steel bar masonry anchor - Detail 2-D-4A.
48. 1/2" exterior gypsum board.
49. 7/8" furring channels at 16" o.c.
50. 1-1/2" suspended steel channels at 48" o.c. max.
51. Field verify dimension - if any discrepancy exists, notify Architect before construction is begun.
52. Dashed line represents existing construction to be removed.
53. Existing precast concrete panels at original entrance to building can be dismantled to gain access during construction and replaced to their original location and condition after completion of second floor structure.
54. Dashed line represents bottom on new structural beam beyond.
55. 1/2" expansion joint material.
56. Compacted fill.
57. Concrete paving.
58. New 4" x 6" D.S. with leaderhead. Cut new scupper opp. through parapet and strip mop into existing roof.
59. Extend new D.S. across existing roof to new scupper in existing parapet and strip mop into existing roof. D.S. crossing existing roof shall be blocked and/or supported as required to provide positive drainage, as approved by the Architect. Provide new D.S., leaderhead, and C.I. boot to match existing located on this wall.
60. Provide new window opening through existing wall complete with stone sill, lintel, etc. to match existing.
61. Exterior wall finish system on 1/2" gypsum sheathing and furring channels at 16" o.c. on angle framing bolted to existing concrete beams. See Detail Sheets D-9A14, D-9A15 and D-9A16.
62. See Detail Sheet D-5A1 and structural drawings for areaway railing and details.

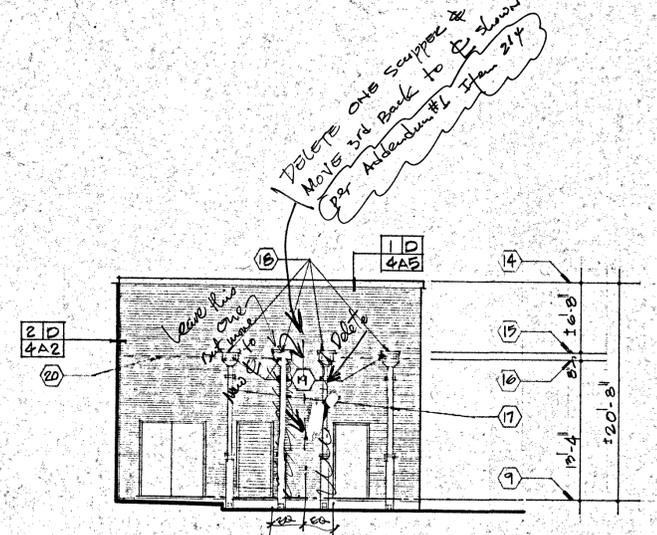


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WEST ELEVATION
SCALE: 1/8" = 1'-0"

3/15-18
3/15-24
3/19-6.2
3/20-1.5
3/22-4.2 TEN
4/23-2.4 SN



3 ELEVATION OF EQUIPMENT ROOM
A-10 LOOKING WEST 1/8" = 1'-0"

- 63. Masonry control joint. Cut wall reinf. at face brick and extend through joint at concrete block. Caulk joint on both exterior and interior.
- 64. Type "B" waterproofing, extend across existing soffit, bottom of precast cap and turn down a minimum of 3" on precast panel. Extend continuous between existing brick pilasters.
- 65. Waterproofing inside face of vertical joints in existing precast concrete panels with 8" wide strip of Type "B" waterproofing.
- 66. Type "A" insulation (two layers.)
- 67. Gypsum board furring around existing concrete beam. (See Reflected Ceiling Plan). Remove existing plaster from beam and provide as much head room under beam as possible and as approved by the Architect.
- 68. 3/4" channel bracing at 4'-0" o.c. max.
- 69. Spray-on fireproofing on new steel beams, angles, channels, plate connectors, etc. as specified.
- 70. #5 bars at 2'-8" o.c. Extend vertical in block cell and fill with mortar. Bars may be spliced by lapping 20".

GENERAL NOTES: A-9-A-14

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.

NOTES: SHEETS A-9-A-13

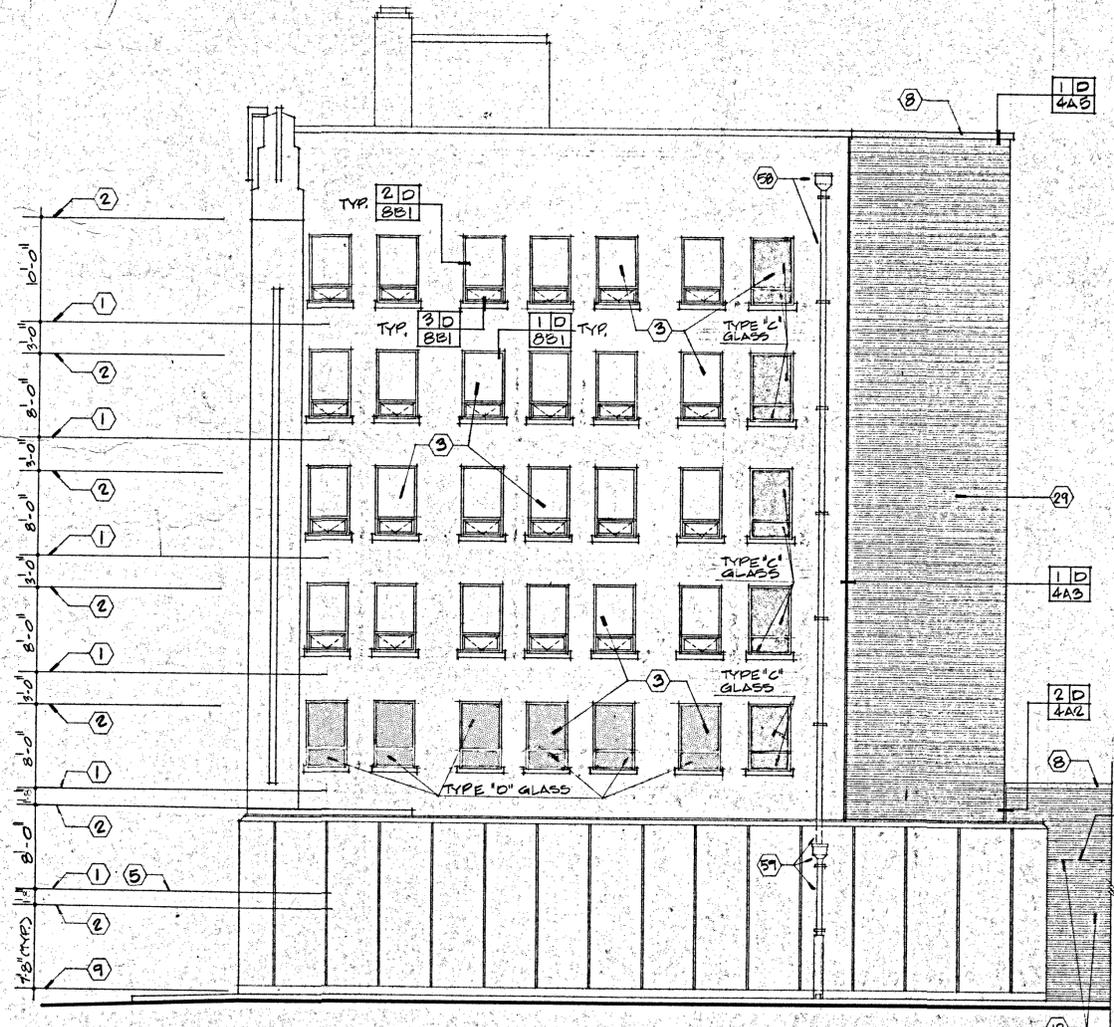
1. Top of slab. (Floor line)
2. Finished ceiling line.
3. New aluminum frame, vents, and glass. See curtainwall and window schedule.
4. Remove existing air conditioning grilles and fill openings with face brick. Paint to match existing wall color.
5. New second floor.
6. Existing second floor.
7. Existing parapet.
8. New stone coping to match existing stone coping.
9. 1st Floor - top of slab.
10. Top of parapet.
11. Dashed line represents existing parapet.
12. See Elevation 3-A10 for new equipment room addition.
13. Remove existing windows and fill opening with masonry. Finish to match existing wall.
14. Top of parapet - to match top of existing parapet.
15. High point of roof deck.
16. Low point of roof deck.
17. 4 x 6 downspout with cast iron boots to match existing downspouts.
18. Leaderhead to match existing leaderheads.
19. 3 x 12 scupper with 3/16" steel plate lintel.
20. Dashed line represents top of roof.
21. Type "A" insulation (one layer).
22. See Room Finish Schedule for base and finish floor.
23. 1/2" gypsum board on 7/8" furring channels @ 16" o.c.
24. Beam - See Structural.
25. New foundation - See Structural.
26. Existing concrete tunnel.
27. Dashed line represents existing ceiling to be removed.
28. Field verify dimension so that top of new stone coping will match top of existing stone coping.
29. Face brick. Paint and texture to match existing wall.
30. L.W.C. block.
31. 12" x 12" concrete beam with 2 - #5 bars top and bottom with #3 ties at 18" o.c.
32. L.W.C. block beam with 2 - #4 bars cont. fill with concrete - cut reinforcing at C.J. (See elevation for C.J. location).
33. Type "B" waterproofing.
34. Gypsum deck on 1/2" formboard.
35. 1/2" gypsum board on 3-5/8" metal studs.
36. Column beyond.
37. Shaded area represents existing structure.
38. Suspended acoustical tile ceiling.
39. Double rowlock header.
40. Bottom of soffit.
41. Firestop continuous between existing brick pilasters. Construction to be 3-5/8" metal runners, 2 layers of 1/2" fire rated gypsum board each side of runner with 1/2" thick sound insulation.
42. Edge of existing precast concrete panel.
43. Rigid insulation board.
44. Masonry reinforcing at 16" o.c.
45. Weep holes at 3'-4" o.c.
46. Extend Type "B" waterproofing on to cover brick shelf.
47. 1/4" steel bar masonry anchor - Detail D-9A14.
48. 1/2" exterior gypsum board.
49. 7/8" furring channels at 16" o.c.
50. 1-1/2" suspended steel channels at 48" o.c. max.
51. Field verify dimension - if any discrepancy exists, notify Architect before construction is begun.
52. Dashed line represents existing construction to be removed.
53. Existing precast concrete panels at original entrance to building can be dismantled to gain access during construction and replaced to their original location and condition after completion of second floor structure.
54. Dashed line represents bottom on new structural beam beyond.
55. 1/2" expansion joint material.
56. Compacted fill.
57. Concrete paving.
58. New 4" x 6" D.S. with leaderhead. Cut new scupper wdg. through parapet and strip mop into existing roof.
59. Extend new D.S. across existing roof to new scupper in existing parapet and strip mop into existing roof. D.S. crossing existing roof shall be blocked and/or supported as required to provide positive drainage, as approved by the Architect. Provide new D.S., leaderhead, and C.I. boot to match existing located on this wall.
60. Provide new window opening through existing wall complete with stone sill, lintel, etc., to match existing.
61. Exterior wall finish system on 1/2" gypsum sheathing and furring channels at 16" o.c. on angle framing bolted to existing concrete beams. See Detail Sheets D-9A14, D-9A15 and D-9A16.
62. See Detail Sheet D-5A1 and structural drawings for areaway railing and details.

TITTLE LUTHER LOVING
architects
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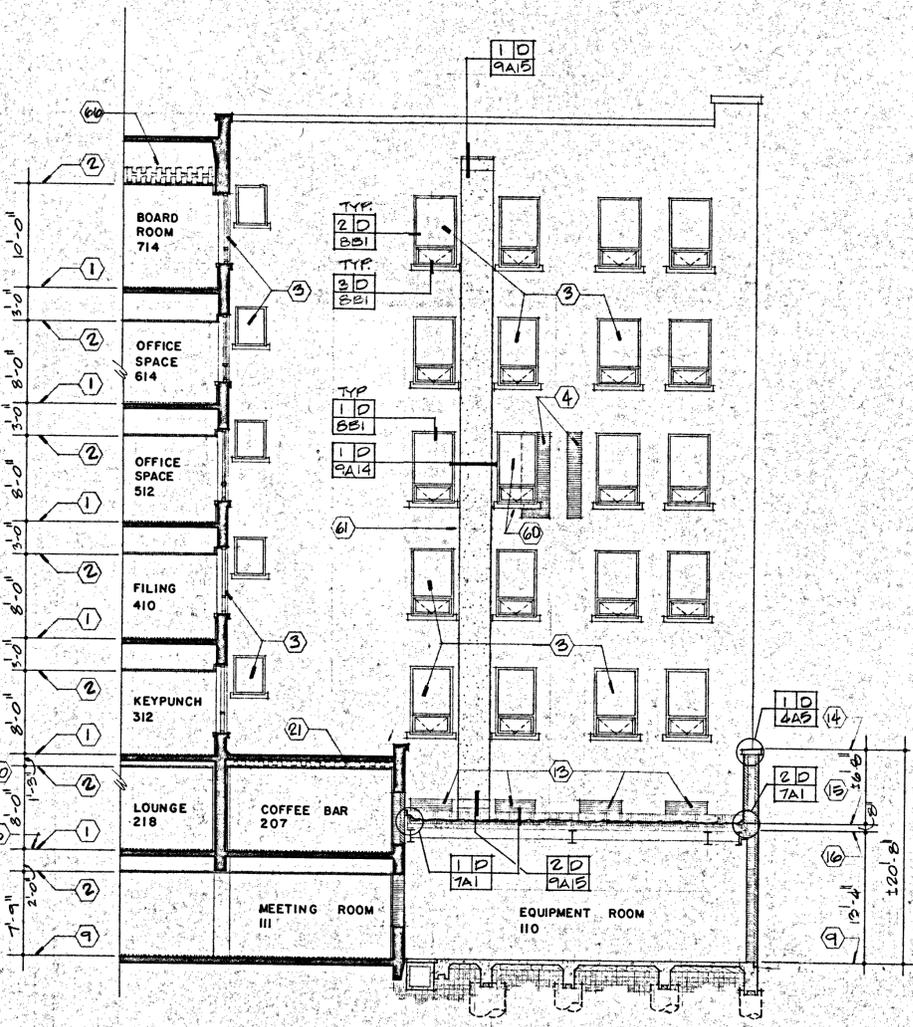
REGISTERED ARCHITECT
STATE OF TEXAS
1427

RENOVATION BUILDING WEST TEXAS UTILITIES COMPANY ABILENE, TEXAS

A-10



1 EAST ELEVATION
A-10 SCALE: 1/8" = 1'-0"



2 CROSS SECTION
A-10 LOOKING WEST 1/8" = 1'-0"

NOTE: CEILING HEIGHTS SHOWN ARE TYPICAL - SEE ROOM FINISH SCHEDULE FOR CEILING HEIGHT IN SPECIFIC ROOMS & SPACES. TYPE 'D' GLASS IN MACHINE ROOM SHALL BE OPERABLE HORIZONTAL VENTS & GLASS AS SCHEDULED IN ALUMINUM CURTAIN WALL & WINDOW SCHEDULE IN ALL OTHER SPACES.

3/26/1-2.6
3/5-2.7
3/4-1.2
3/5-1.8
WD

- 63. Masonry control joint. Cut wall joint at face brick and extend through joint at concrete block. Caulk joint on both exterior and interior.
- 64. Type "B" waterproofing, extend across existing soffit, bottom of precast cap and turn down a minimum of 8" on precast panel. Extend continuous between existing brick pilasters.
- 65. Waterproofing inside face of vertical joints in existing precast concrete panels with 8" wide strip of Type "B" waterproofing.
- 66. Type "A" insulation (two layers.)
- 67. Gypsum board furring around existing concrete beam. (See Reflected Ceiling Plan). Remove existing plaster from beam and provide as much head room under beam as possible and as approved by the Architect.
- 68. 3/4" channel bracing at 4'-0" o.c. max.
- 69. Spray-on fireproofing on new steel beams, angles, channels, plate connectors, etc. as specified.
- 70. #5 bars at 2'-8" o.c. Extend vertical in block cell and fill with mortar. Bars may be spliced by lapping 20".

GENERAL NOTES: A-9-A-14

A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.

B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.



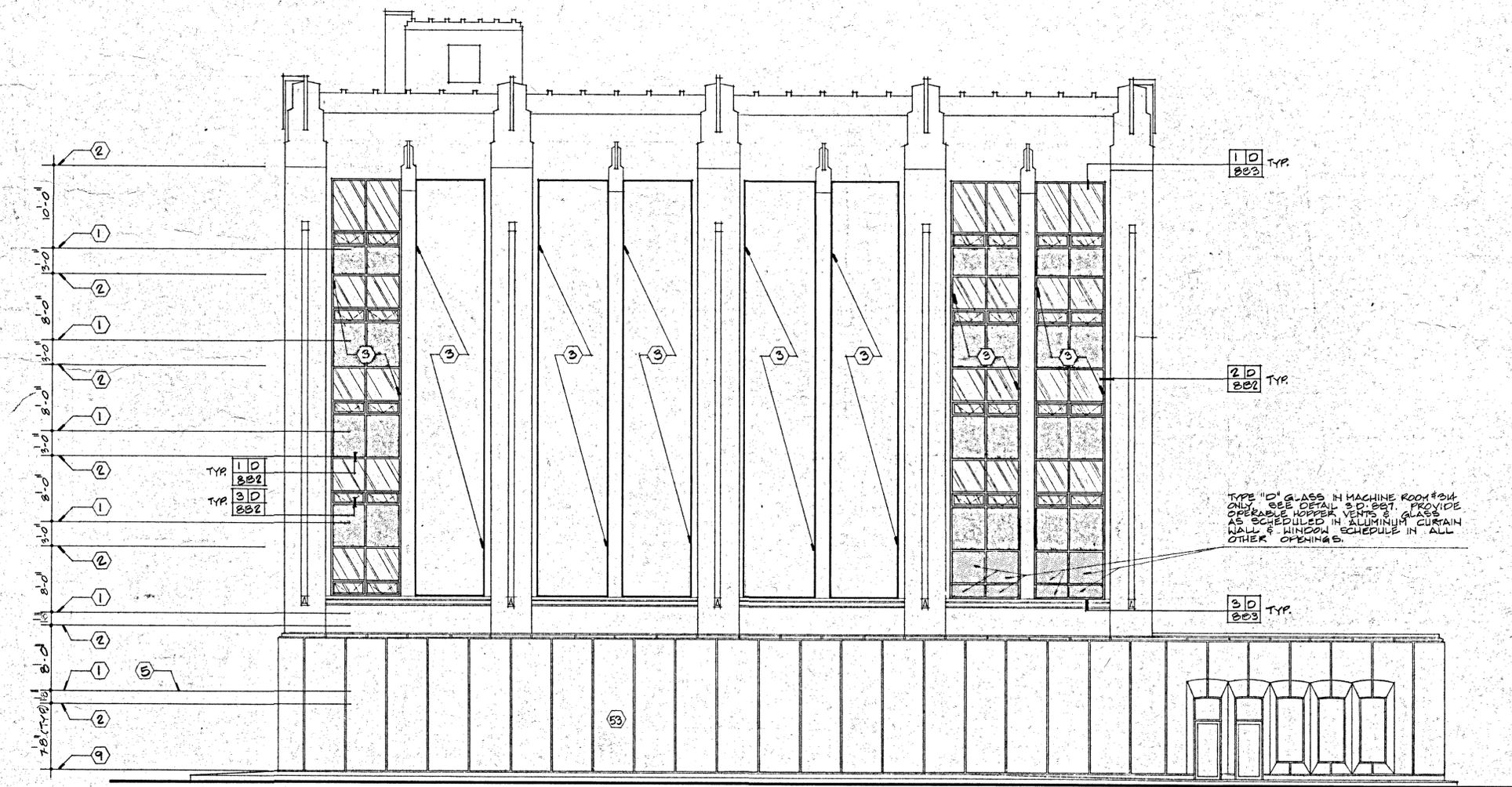
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NOTES: SHEETS A-9-A-13

1. Top of slab. (Floor line)
2. Finished ceiling line.
3. New aluminum frame, vents, and glass. See curtainwall and window schedule.
4. Remove existing air conditioning grilles and fill openings with face brick. Paint to match existing wall color.
5. New second floor.
6. Existing second floor.
7. Existing parapet.
8. New stone coping to match existing stone coping.
9. 1st Floor - top of slab.
10. Top of parapet.
11. Dashed line represents existing parapet.
12. See Elevation 3-A10 for new equipment room addition.
13. Remove existing windows and fill opening with masonry. Finish to match existing wall.
14. Top of parapet - to match top of existing parapet.
15. High point of roof deck.
16. Low point of roof deck.
17. 4 x 6 downspout with cast iron boots to match existing downspouts.
18. Leaderhead to match existing leaderheads.
19. 3 x 12 scupper with 3/16" steel plate lintel.
20. Dashed line represents top of roof.
21. Type "A" insulation (one layer).
22. See Room Finish Schedule for base and finish floor.
23. 1/2" gypsum board on 7/8" furring channels @ 16" o.c.
24. Beam - See Structural.
25. New foundation - See Structural.
26. Existing concrete tunnel.
27. Dashed line represents existing ceiling to be removed.
28. Field verify dimension so that top of new stone coping will match top of existing stone coping.
29. Face brick. Paint and texture to match existing wall.
30. L.W.C. block.
31. 12" x 12" concrete beam with 2 - #5 bars top and bottom with #3 ties at 18" o.c.
32. L.W.C. block beam with 2 - #4 bars cont. fill will concrete - cut reinforcing at C.J. (See elevation for C.J. location).
33. Type "B" waterproofing.
34. Gypsum deck on 1/2" formboard.
35. 1/2" gypsum board on 3-5/8" metal studs.
36. Column beyond.
37. Shaded area represents existing structure.
38. Suspended acoustical tile ceiling.
39. Double rowlock header.
40. Bottom of soffit.
41. Firestop continuous between existing brick pilasters. Construction to be 3-5/8" metal runners, 2 layers of 1/2" fire rated gypsum board each side of runner with 1-1/2" thick sound insulation.
42. Edge of existing precast concrete panel.
43. Rigid insulation board.
44. Masonry reinforcing at 16" o.c.
45. Weep holes at 3'-4" o.c.
46. Extend Type "B" waterproofing on to cover brick shelf.
47. 1/4" steel bar masonry anchor - Detail 2-D-44.
48. 1/2" exterior gypsum board.
49. 7/8" furring channels at 16" o.c.
50. 1-1/2" suspended steel channels at 48" o.c. max.
51. Field verify dimension - if any discrepancy exists, notify Architect before construction is begun.
52. Dashed line represents existing construction to be removed.
53. Existing precast concrete panels at original entrance to building can be dismantled to gain access during construction and replaced to their original location and condition after completion of second floor structure.
54. Dashed line represents bottom on new structural beam beyond.
55. 1/2" expansion joint material.
56. Compacted fill.
57. Concrete paving.
58. New 4" x 6" D.S. with leaderhead. Cut new scupper opp. through parapet and strip mop into existing roof.
59. Extend new D.S. across existing roof to new scupper in existing parapet and strip mop into existing roof. D.S. crossing existing roof shall be blocked and/or supported as required to provide positive drainage, as approved by the Architect. Provide new D.S., leaderhead, and C.I. boot to match existing located on this wall.
60. Provide new window opening through existing wall complete with stone sill, lintel, etc. to match existing.
61. Exterior wall finish system on 1/2" gypsum sheathing and furring channels at 16" o.c. on angle framing bolted to existing concrete beams. See Detail Sheets D-9A14, D-9A15 and D-9A16.
62. See Detail Sheet D-5A1 and structural drawings for areaway railing and details.



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NOTE: CEILING HEIGHTS SHOWN ARE TYPICAL - SEE ROOM FINISH SCHED. FOR CEILING HEIGHT IN SPECIFIC ROOMS & SPACES.

SOUTH ELEVATION
SCALE: 1/8" = 1' - 0"

319-1.2
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 3

- 63. Masonry control joint. Cut wall reinf. at face brick and extend through joint at concrete block. Caulk joint on both exterior and interior.
- 64. Type "B" waterproofing, extend across existing soffit, bottom of precast cap and turn down a minimum of 8" on precast panel. Extend continuous between existing brick pilasters.
- 65. Waterproofing inside face of vertical joints in existing precast concrete panels with 8" wide strip of Type "B" waterproofing.
- 66. Type "A" insulation (two layers.)
- 67. Gypsum board furring around existing concrete beam. (See Reflected Ceiling Plan). Remove existing plaster from beam and provide as much head room under beam as possible and as approved by the Architect.
- 68. 3/4" channel bracing at 4'-0" o.c. max.
- 69. Spray-on fireproofing on new steel beams, angles, channels, plate connectors, etc. as specified.
- 70. #5 bars at 2'-8" o.c. Extend vertical in block cell and fill with mortar. Bars may be spliced by lapping 20".

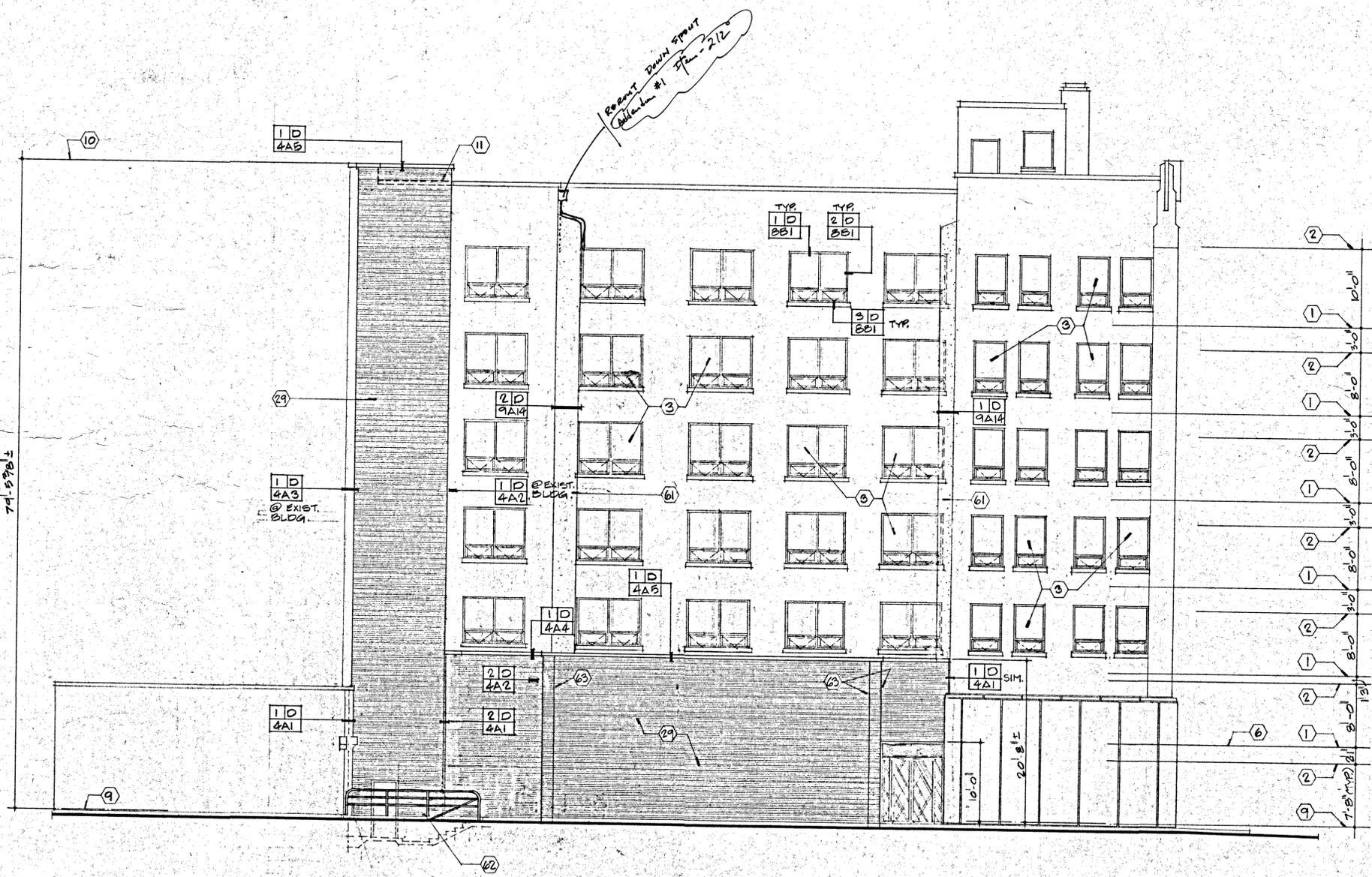
GENERAL NOTES A-9-A-14

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.


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NOTES SHEETS A-9-A-13

1. Top of slab. (Floor line)
2. Finished ceiling line.
3. New aluminum frame, vents, and glass. See curtainwall and window schedule.
4. Remove existing air conditioning grilles and fill openings with face brick. Paint to match existing wall color.
5. New second floor.
6. Existing second floor.
7. Existing parapet.
8. New stone coping to match existing stone coping.
9. 1st Floor - top of slab.
10. Top of parapet.
11. Dashed line represents existing parapet.
12. See Elevation 3-A10 for new equipment room addition.
13. Remove existing windows and fill opening with masonry. Finish to match existing wall.
14. Top of parapet - to match top of existing parapet.
15. High point of roof deck.
16. Low point of roof deck.
17. 4 x 6 downspout with cast iron boots to match existing downspouts.
18. Leaderhead to match existing leaderheads.
19. 3 x 12 scupper with 3/16" steel plate lintel.
20. Dashed line represents top of roof.
21. Type "A" insulation (one layer).
22. See Room Finish Schedule for base and finish floor.
23. 1/2" gypsum board on 7/8" furring channels @ 16" o.c.
24. Beam - See Structural.
25. New foundation - See Structural.
26. Existing concrete tunnel.
27. Dashed line represents existing ceiling to be removed.
28. Field verify dimension so that top of new stone coping will match top of existing stone coping.
29. Face brick. Paint and texture to match existing wall.
30. L.W.C. block.
31. 12" x 12" concrete beam with 2 - #5 bars top and bottom with #3 ties at 18" o.c.
32. L.W.C. block beam with 2 - #4 bars cont. fill will concrete - cut reinforcing at C.J. (See elevation for C.J. location).
33. Type "B" waterproofing.
34. Gypsum deck on 1/2" formboard.
35. 1/2" gypsum board on 3-5/8" metal studs.
36. Column beyond.
37. Shaded area represents existing structure.
38. Suspended acoustical tile ceiling.
39. Double mullion header.
40. Bottom of soffit.
41. Firestop continuous between existing brick pilasters. Construction to be brick pilasters. Construction to be 3-5/8" metal runners, 2 layers of 1/2" fire rated gypsum board each side of runner with 1-1/2" thick sound insulation.
42. Edge of existing precast concrete panel.
43. Rigid insulation board.
44. Masonry reinforcing at 16" o.c.
45. Keep holes at 3'-4" o.c.
46. Extend Type "B" waterproofing on to cover brick shelf.
47. 1/4" steel bar masonry anchor - Detail 2-D-44A.
48. 1/2" exterior gypsum board.
49. 7/8" furring channels at 16" o.c.
50. 1-1/2" suspended steel channels at 48" o.c. max.
51. Field verify dimension - if any discrepancy exists, notify Architect before construction is begun.
52. Dashed line represents existing construction to be removed.
53. Existing precast concrete panels at original entrance to building can be dismantled to gain access during construction and replaced to their original location and condition after completion of second floor structure.
54. Dashed line represents bottom on new structural beam beyond.
55. 1/2" expansion joint material.
56. Compacted fill.
57. Concrete paving.
58. New 4" x 6" D.S. with leaderhead. Cut new scupper opp. through parapet and strip mop into existing roof.
59. Extend new D.S. across existing roof to new scupper in existing parapet and strip mop into existing roof. D.S. crossing existing roof shall be blocked and/or supported as required to provide positive drainage, as approved by the Architect. Provide new D.S., leaderhead, and C.I. boot to match existing located on this wall.
60. Provide new window opening through existing wall complete with stone sill, lintel, etc. to match existing.
61. Exterior wall finish system on 1/2" gypsum sheathing and furring channels at 16" o.c. on angle framing bolted to existing concrete beams. See Detail Sheets D-9A14, D-9A15 and D-9A16.
62. See Detail Sheet D-5A1 and structural drawings for areaway railing and details.



NORTH ELEVATION
 SCALE: 1/8" = 1'-0"

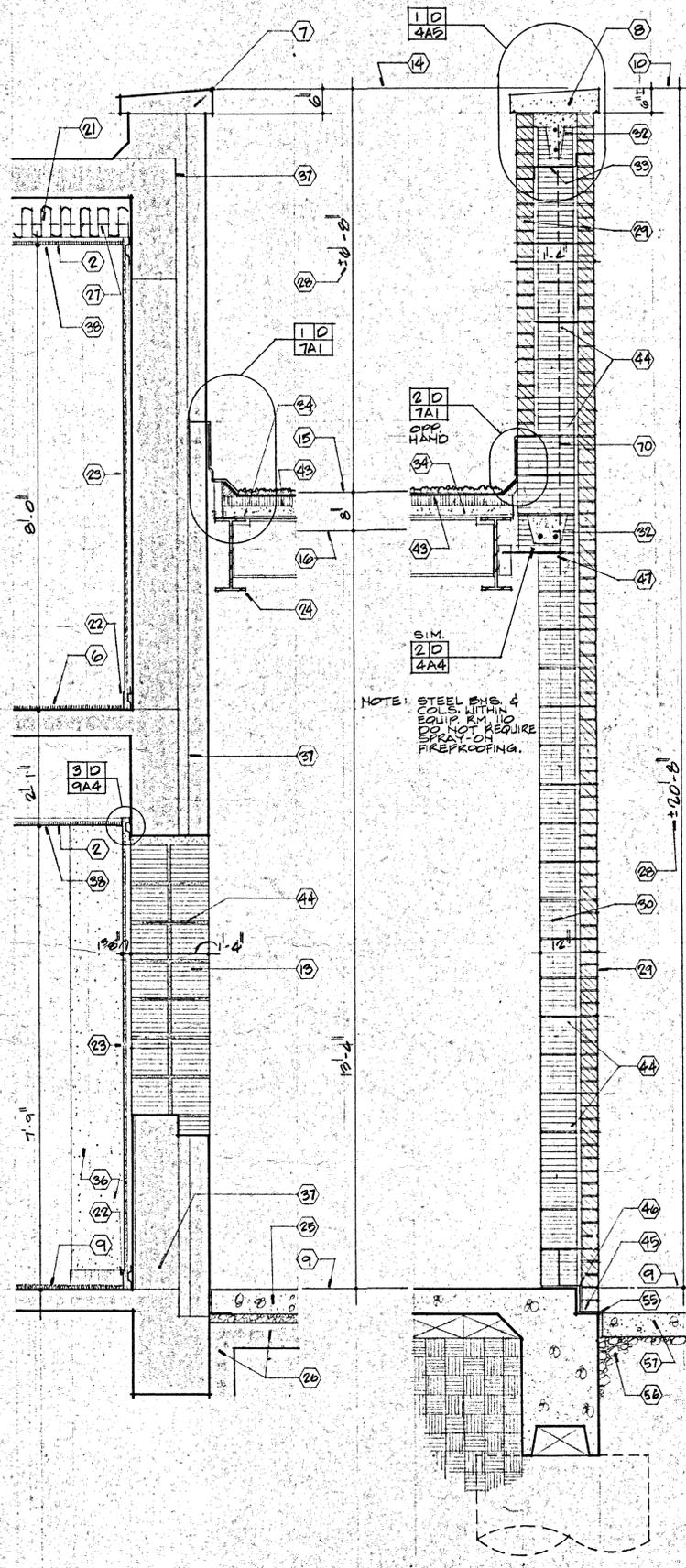
RENOVATION BUILDING WEST TEXAS UTILITIES COMPANY ABILENE, TEXAS

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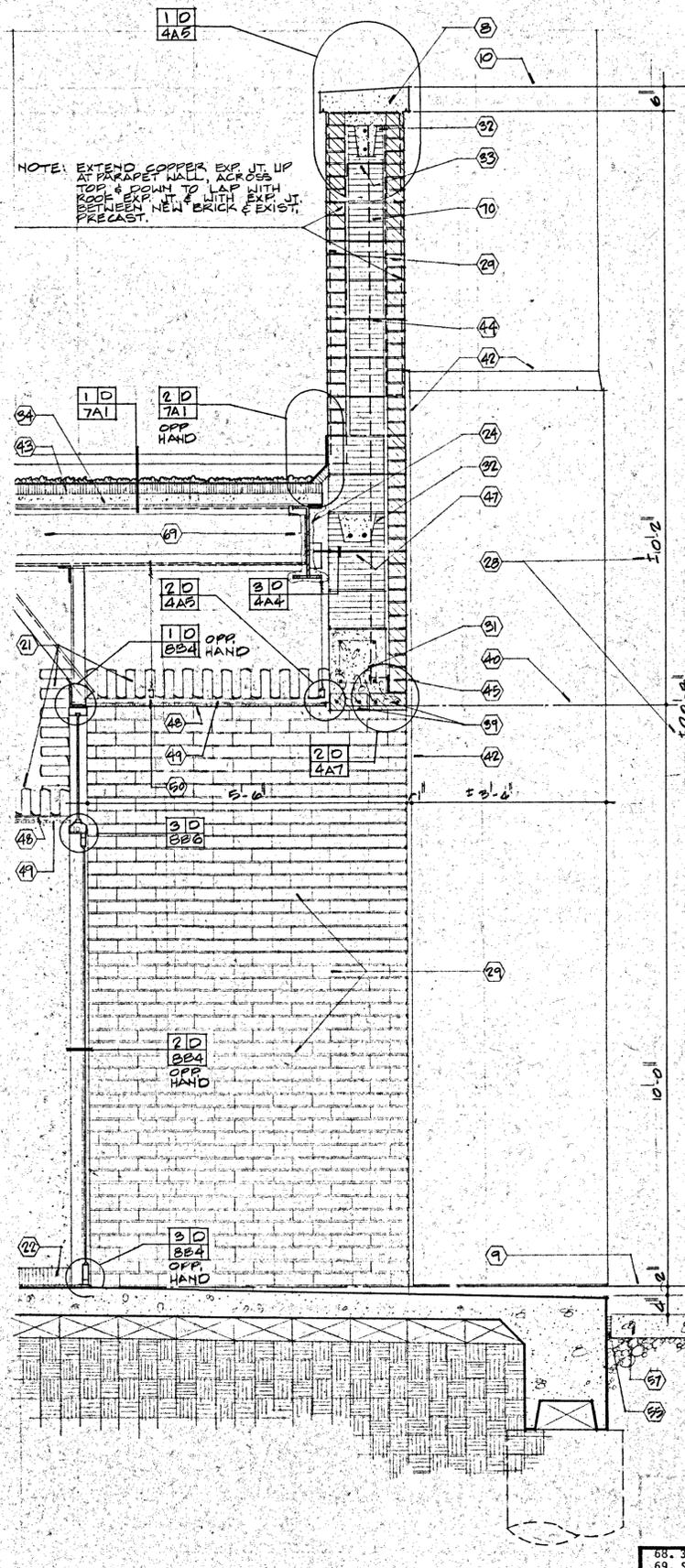
NOTE: CONTRACTOR SHALL VERIFY DIMENSION REQUIRED FOR WINDOW SILL AT LINE DOWN SPACE ON ALL FLOORS.

NOTE: EXTEND COPPER EXP. JT. UP AT PARAPET WALL, ACROSS TOP & DOWN TO LAP WITH BEEN EXP. JT. WITH EXP. JT. BETWEEN NEW BRICK & EXIST. PRECAST.

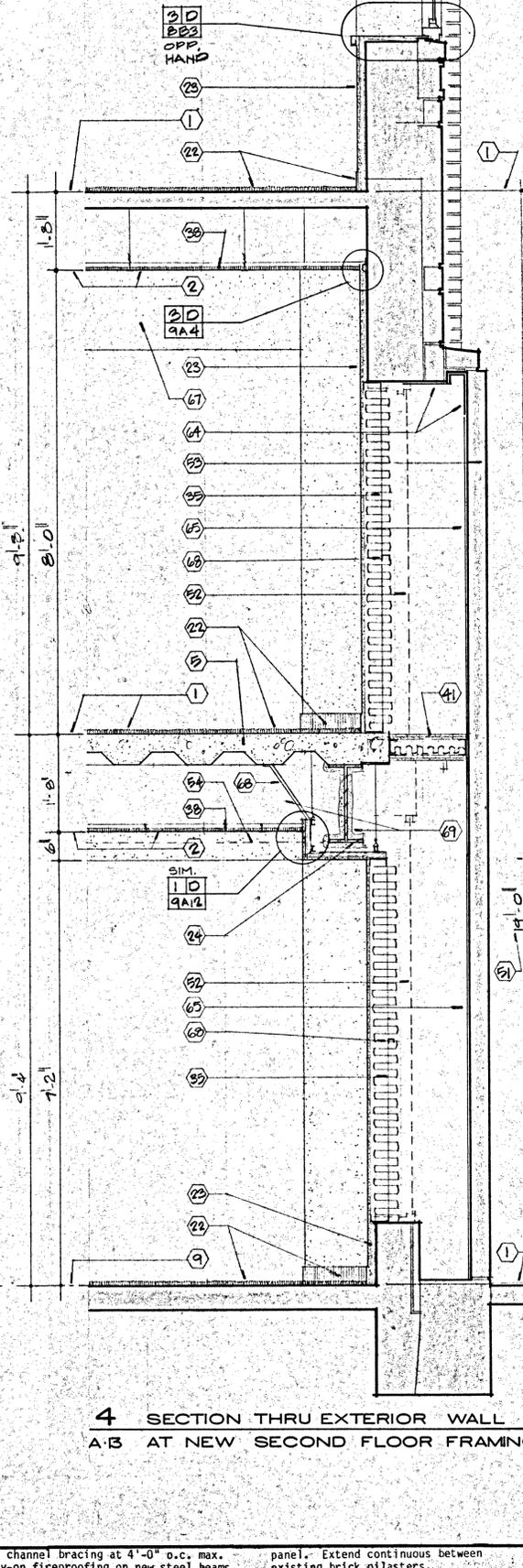
NOTE: STEEL ENDS & COLS. WITHIN EQUIP. RM. DO NOT REQUIRE SPRAY-ON FIREPROOFING.



1 SECTION AT EQUIP ROOM A-13 TO EXISTING BUILDING



2 EXTERIOR WALL SECTION A-13 AT EQUIPMENT ROOM



3 SECTION AT ENTRANCE VESTIBULE A-13

4 SECTION THRU EXTERIOR WALL A-3 AT NEW SECOND FLOOR FRAMING

- 68. 3/4" channel bracing at 4'-0" o.c. max.
- 69. Spray-on fireproofing on new steel beams, angles, channels, plate connectors, etc. as specified.
- 70. #5 bars at 2'-8" o.c. Extend vertical in block cell and fill with mortar. Bars may be spliced by lapping 20".
- 65. Waterproofing inside face of vertical joints in existing precast concrete panels with 8" wide strip of Type "B" waterproofing.
- 66. Type "A" insulation (two layers).
- 67. Gypsum board furring around existing concrete beam. (See Reflected Ceiling Plan). Remove existing plaster from beam and provide as much head room under beam as possible and as approved by the Architect.
- 68. 3/4" channel bracing at 4'-0" o.c. max.
- 69. Spray-on fireproofing on new steel beams, angles, channels, plate connectors, etc. as specified.
- 70. #5 bars at 2'-8" o.c. Extend vertical in block cell and fill with mortar. Bars may be spliced by lapping 20".
- 65. Waterproofing inside face of vertical joints in existing precast concrete panels with 8" wide strip of Type "B" waterproofing.
- 66. Type "A" insulation (two layers).
- 67. Gypsum board furring around existing concrete beam. (See Reflected Ceiling Plan). Remove existing plaster from beam and provide as much head room under beam as possible and as approved by the Architect.

SCALE ALL WALL SECTIONS: 3/4" = 1'-0"

GENERAL NOTES: A 9-A 14

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.



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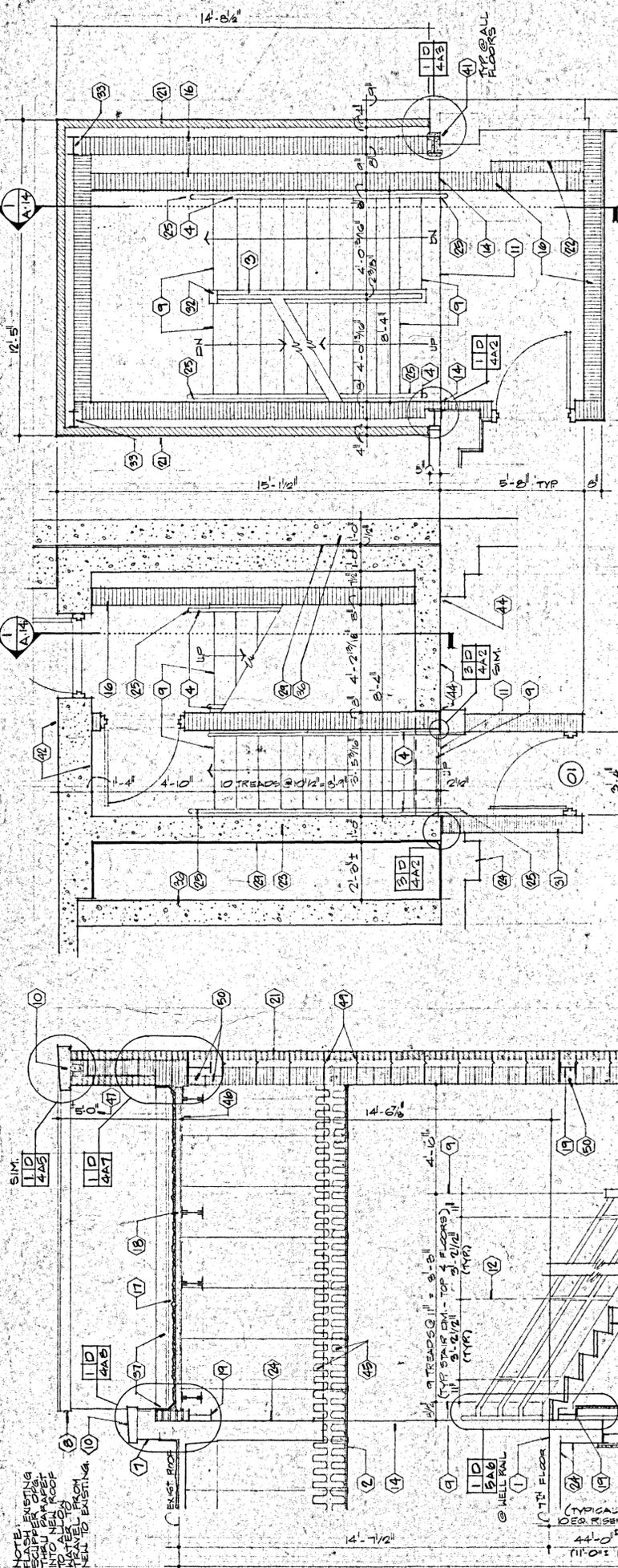
NOTES: SHEETS: A 9-A 13

1. Top of slab. (Floor line)
2. Finished ceiling line.
3. New aluminum frame, vents, and glass. See curtainwall and window schedule.
4. Remove existing air conditioning grilles and fill openings with face brick. Paint to match existing wall color.
5. New second floor.
6. Existing second floor.
7. Existing parapet.
8. New stone coping to match existing stone coping.
9. 1st Floor - top of slab.
10. Top of parapet.
11. Dashed line represents existing parapet.
12. See Elevation 3-A10 for new equipment room addition.
13. Remove existing windows and fill opening with masonry. Finish to match existing wall.
14. Top of parapet - to match top of existing parapet.
15. High point of roof deck.
16. Low point of roof deck.
17. 4 x 6 downspout with cast iron boots to match existing downspouts.
18. Leaderhead to match existing leaderheads.
19. 3 x 12 scupper with 3/16" steel plate lintel.
20. Dashed line represents top of roof.
21. Type "A" insulation (one layer).
22. See Room Finish Schedule for base and finish floor.
23. 1/2" gypsum board on 7/8" furring channels @ 16" o.c.
24. Beam - See Structural.
25. New foundation - See Structural.
26. Existing concrete tunnel.
27. Dashed line represents existing ceiling to be removed.
28. Field verify dimension so that top of new stone coping will match top of existing stone coping.
29. Face brick. Paint and texture to match existing wall.
30. L.W.C. block.
31. 12" x 12" concrete beam with 2 - #5 bars top and bottom with #3 ties at 18" o.c.
32. L.W.C. block beam with 2 - #4 bars cont. fill will concrete - cut reinforcing at C.J. (See elevation for C.J. location).
33. Type "B" waterproofing.
34. Gypsum deck on 1/2" formboard.
35. 1/2" gypsum board on 3-5/8" metal studs.
36. Column beyond.
37. Shaded area represents existing structure.
38. Suspended acoustical tile ceiling.
39. Double rowlock header.
40. Bottom of soffit.
41. Firestop continuous between existing brick pilasters. Construction to be 3-5/8" metal runners 2 layers of 1/2" fire rated gypsum board each side of runner with 1-1/2" thick sound insulation.
42. Edge of existing precast concrete panel.
43. Rigid insulation board.
44. Masonry reinforcing at 16" o.c.
45. Weep holes at 3'-4" o.c.
46. Extend Type "B" waterproofing on to cover brick shelf.
47. 1/4" steel bar masonry anchor - Detail 2-D-4A.
48. 1/2" exterior gypsum board.
49. 7/8" furring channels at 16" o.c.
50. 1-1/2" suspended steel channels at 48" o.c. max.
51. Field verify dimension - if any discrepancy exists, notify Architect before construction is begun.
52. Dashed line represents existing construction to be removed.
53. Existing precast concrete panels at original entrance to building can be dismantled to gain access during construction and replaced to their original location and condition after completion of second floor structure.
54. Dashed line represents bottom on new structural beam beyond.
55. 1/2" expansion joint material.
56. Compacted fill.
57. Concrete paving.
58. New 4" x 6" D.S. with leaderhead. Cut new scupper opp. through parapet and strip mop into existing roof.
59. Extend new D.S. across existing roof to new scupper in existing parapet and strip mop into existing roof. D.S. crossing existing roof shall be blocked and/or supported as required to provide positive drainage, as approved by the Architect. Provide new D.S., leaderhead, and C.I. boot to match existing located on this wall.
60. Provide new window opening through existing wall complete with stone sill, lintel, etc. to match existing.
61. Exterior wall finish system on 1/2" gypsum sheathing and furring channels at 16" o.c. on angle framing bolted to existing concrete beams. See Detail Sheets D-9A14, D-9A15 and D-9A16.
62. See Detail Sheet D-5A1 and structural drawings for arway railing and details.
63. Masonry control joint. Cut wall reinf. at face brick and extend through joint at concrete block. Caulk joint on both exterior and interior.
64. Type "B" waterproofing, extend across existing soffit, bottom of precast cap and turn down a minimum of 8" on precast

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ABILENE, TEXAS

A-13

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4 STAIR PLAN AT TYPICAL A-14 FLOOR ABOVE THIRD FLOOR

3 STAIR PLAN AT BASEMENT A-14

2 CROSS SECTION THRU STAIR A-14

1 LONGITUDINAL SECTION THRU STAIR A-14

STAIR PLAN & SECTION SCALE: 3/8"=1'-0"

GENERAL NOTES: A-9 - A-14

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.



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NOTES - STAIR SECTIONS A-14

1. Top of slab.
2. Suspended acoustical tile ceiling.
3. 1-1/2" I.D. steel pipe handrail.
4. 1-1/2" I.D. steel pipe handrail with wall brackets at 4'-0" o.c. maximum.
5. Concrete tread in metal pan.
6. TS 12 x 4 x .1875 steel tube wall fining.
7. Existing parapet.
8. New stone coping to match existing stone coping.
9. Face of riser.
10. Top of parapet.
11. Joint between existing floor slab and steel stair assembly.
12. Start post layout on centerline of tread.
13. Concrete landing in metal pan.
14. Control joint. Type "c" caulk.
15. MC 12 x 10.6 steel channel wall stringer.
16. L.W.C. block.
17. Built-up roof.
18. Gypsum roof deck.
19. Steel beam - see structural.
20. Steel tube - see structural.
21. Face brick wall.
22. Combination standpipe cabinet - provide 4" solid L.W.C. block behind cabinet. Terminate block 8" above cabinet and 4" past pipe connected to standpipe cabinet.
23. Concrete basement walls.
24. Existing building construction.
25. Extend handrail 1'-0" past riser face.
26. Concrete roof deck on corrugated metal form.
27. Steel angle brackets exp. bolted to existing building.
28. Backfill with gravel.
29. Type "A" waterproofing. Extend floor waterproofing under wall to vinyl waterstop between floor and wall.
30. 3" concrete topping slab.
31. Extend block to bottom of floor structure.
32. TS 6 x 4 x .250 tube newel post.
33. Steel column - see structural.
34. Concrete landing on corrugated metal form.
35. Steel beam and pipe column to support 1st floor landing.
36. Conc. underpinning walls for existing buildings - See Structural.
37. Type "c" flashing.
38. Expansion joint as detailed, lap with metal wall expansion joint by mitering wall expansion joint back at bottom of stone coping and sealing with roof joint.
39. Expansion joint as detailed, miter across top of parapet at north end and lap with metal wall expansion joint by mitering wall expansion joint back across top of parapet and sealing with roof joint.
40. 4" vinyl waterstop.
41. Spray on type fireproofing.
42. Concrete wall - rubbed finish.
43. Concrete steps with metal safety nosings.
44. Type "c" caulking.
45. Provide two layers of Type "A" insulation above all ceilings on 7th level.
46. Top of joist.
47. Match existing parapet on east. See Sheet A-12.
48. Top of stairwell chase wall on east side of stair - See Detail 2-D-4A8.
49. Masonry wall reinforcing at 16" o.c. typical.
50. 4" L.W. concrete block at steel beam to be solid units for fireproofing typical.
51. 1/2" gypsum board on 3-5/8" metal studs at 16" o.c. attach studs to structure above. Bottom of gypsum board furr down 7'-6" from top of slab.
52. Type "A" waterproofing. Provide weep holes at 3'-4" o.c.
53. Extend Type "A" waterproofing 12" below slab level.

MAIN BUILDING UTILITIES COMPANY TEXAS
 RENOVATION COMPANY TEXAS

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GENERAL NOTES: A-15 - A-21
 REFLECTED CEILING PLANS

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.



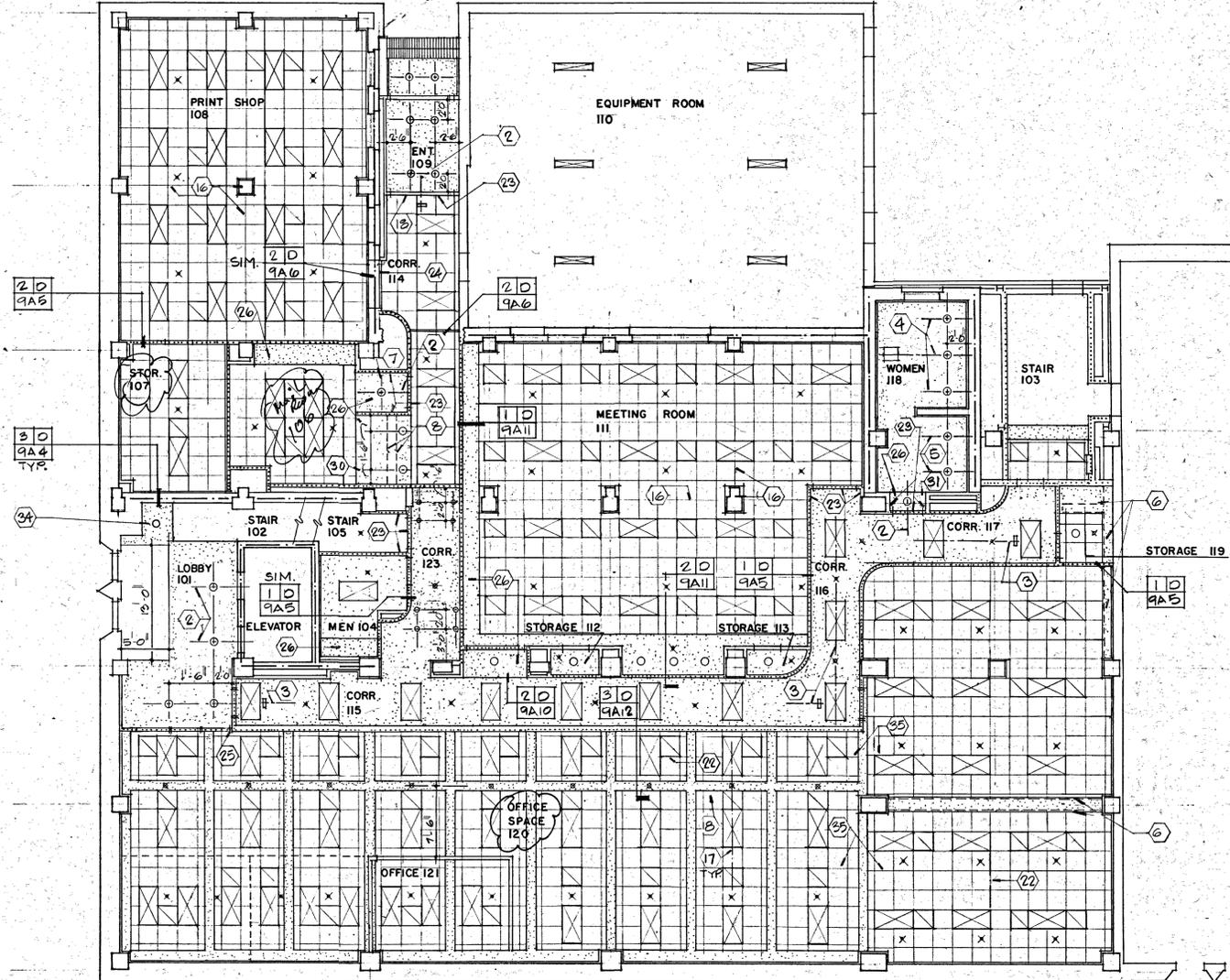
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NOTES: REFLECTED CLNG.
 PLANS SHEETS A-15 - A-21

1. Centerline of stair.
2. Centerline of door.
3. Centerline of corridor.
4. Centerline of water closet below.
5. Centerline of lav. below.
6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
7. Centerline of furred ceiling.
8. Dashed line represents mail cab. below.
9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
10. Existing light fixtures to remain.
11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
12. Centerline of opening.
13. Start ceiling layout with ceiling "T" at center of corridor.
14. Door and/or opening shall be centered on corridor.
15. Centerline of room.
16. Start ceiling layout with ceiling "T" at center of finished column.
17. Start ceiling layout by centering acoustical tile in space.
18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
20. Start ceiling layout by centering ceiling "T" in room.
21. Start ceiling layout with ceiling "T" centered between beams.
22. Start ceiling layout with ceiling "T" centered between wall and beam.
23. Door shall be centered between walls.
24. Existing opening - not to be moved.
25. Set hollow metal frame tight against west face of east partition.
26. Furred clg. ht. 7'-2-1/8" from top of slab.
27. Furred clg. ht. 7'-6" from top of slab.
28. Edge of door frame shall align with ceiling "T".
29. Furred clg. ht. 8'-0" from top of slab.
30. See Detail 1-D-9A12.
31. See Detail 1-D-9A12.
32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
33. Projection screen.
34. Furr ceiling to 7'-7"±.
35. Ceiling grid system shall align in these spaces.
36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.



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 1427



Location of
 A/C GRILLES FOR Rooms
 No. 106, 107, & 120 ARE TO
 BE AS SHOWN M-2 Mech. SLT
 Addition #1 para 201

LEGEND - REFLECTED
 CEILING PLANS - A-15 - A-21

- Luminous ceiling
- 2 x 2 suspended lay-in acous. tile clg. Main "tees" shown as darker lines
- Suspended gypsum board ceiling
- Expansion Jt. See Dets. 1-D-9A6 & 2-D-9A6
- New partitions to terminate at fin. clg. see Detail 1-D-9A4
- New partition to terminate at bot. of structure see Detail 1-D-9A5
- Existing partition terminates at bot. of structure
- Return air or supply air grille
- Recessed light fixture see electrical
- Exit sign see electrical
- Fire sprinkler head



FIRST FLOOR - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

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 WEST TEXAS ABILENE

A-15

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GENERAL NOTES: A-15 - A-21
 REFLECTED CEILING PLANS

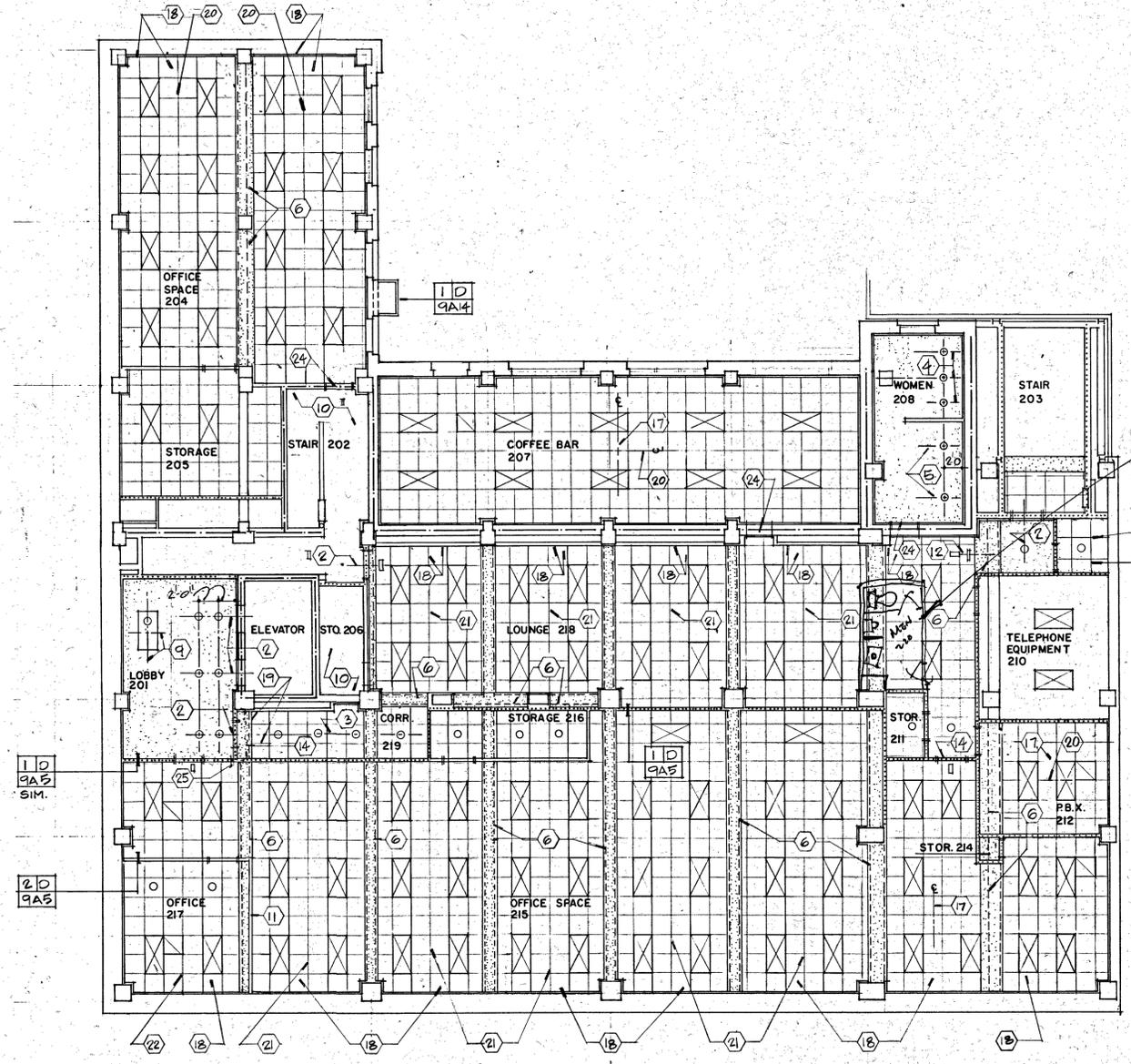
- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.


TITLE LUTHER LOVING
 architects
 AIA
 340 BEECH
 ARLENE, TEXAS 79601
 AC 915 673 8178

NOTES (C): REFLECTED CLNG. PLANS SHEETS A-15 - A-21

1. Centerline of stair.
2. Centerline of door.
3. Centerline of corridor.
4. Centerline of water closet below.
5. Centerline of lav. below.
6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
7. Centerline of furred ceiling.
8. Dashed line represents mat. cab. below.
9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
10. Existing light fixtures to remain.
11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
12. Centerline of opening.
13. Start ceiling layout with ceiling "T" at center of corridor.
14. Door and/or opening shall be centered on corridor.
15. Centerline of room.
16. Start ceiling layout with ceiling "T" at center of finished column.
17. Start ceiling layout by centering acoustical tile in space.
18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
20. Start ceiling layout by centering ceiling "T" in room.
21. Start ceiling layout with ceiling "T" centered between beams.
22. Start ceiling layout with ceiling "T" centered between wall and beam.
23. Door shall be centered between walls.
24. Existing opening - not to be moved.
25. Set hollow metal frame tight against west face of east partition.
26. Furred clg. ht. 7'-2 1/8" from top of slab.
27. Furred clg. ht. 7'-6" from top of slab.
28. Edge of door frame shall align with ceiling "T".
29. Furred clg. ht. 8'-0" from top of slab.
30. See Detail 1-D-9A12.
31. See Detail 2-D-9A12.
32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
33. Projection screen.
34. Furr ceiling to 7'-7" ±.
35. Ceiling grid system shall align in these spaces.
36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.


 REGISTERED ARCHITECT
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*ADD 4 DWG Specs
 Toilet App: Room
 (Anita done # 1 Para 209 C)*

10
 9A5
 SIM.

20
 9A5



SECOND FLOOR - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

LEGEND - REFLECTED CEILING PLANS - A-15 - A-21

-  Luminous ceiling
-  2 x 2 suspended lay-in acous. tile clg. - Main "tees" shown as darker lines.
-  Suspended gypsum board ceiling.
-  Expansion Jt. - See Dets. 1-D-9A6 & 2-D-9A6.
-  New partitions to terminate at fin. clg. - see Detail 1-D-9A4.
-  New partition to terminate at bot. of structure - see Detail 1-D-9A5.
-  Existing partition terminates at bot. of structure.
-  Return air or supply air grille.
-  Recessed light fixture - see electrical.
-  Exit sign - see electrical.
-  Fire sprinkler head.

RENOVATION COMPANY TEXAS
 BUILDING UTILITIES COMPANY TEXAS
 MAIN WEST TEXAS UTILITIES COMPANY TEXAS
 ABILENE

A-16

2/24/81 - 3.8
 2/24/81 - 1.2
 2/26 - .6
 WD
 3/13-04
 HCB-2.0
 OS SU

GENERAL NOTES: A-15 - A-21
 REFLECTED CEILING PLANS

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.



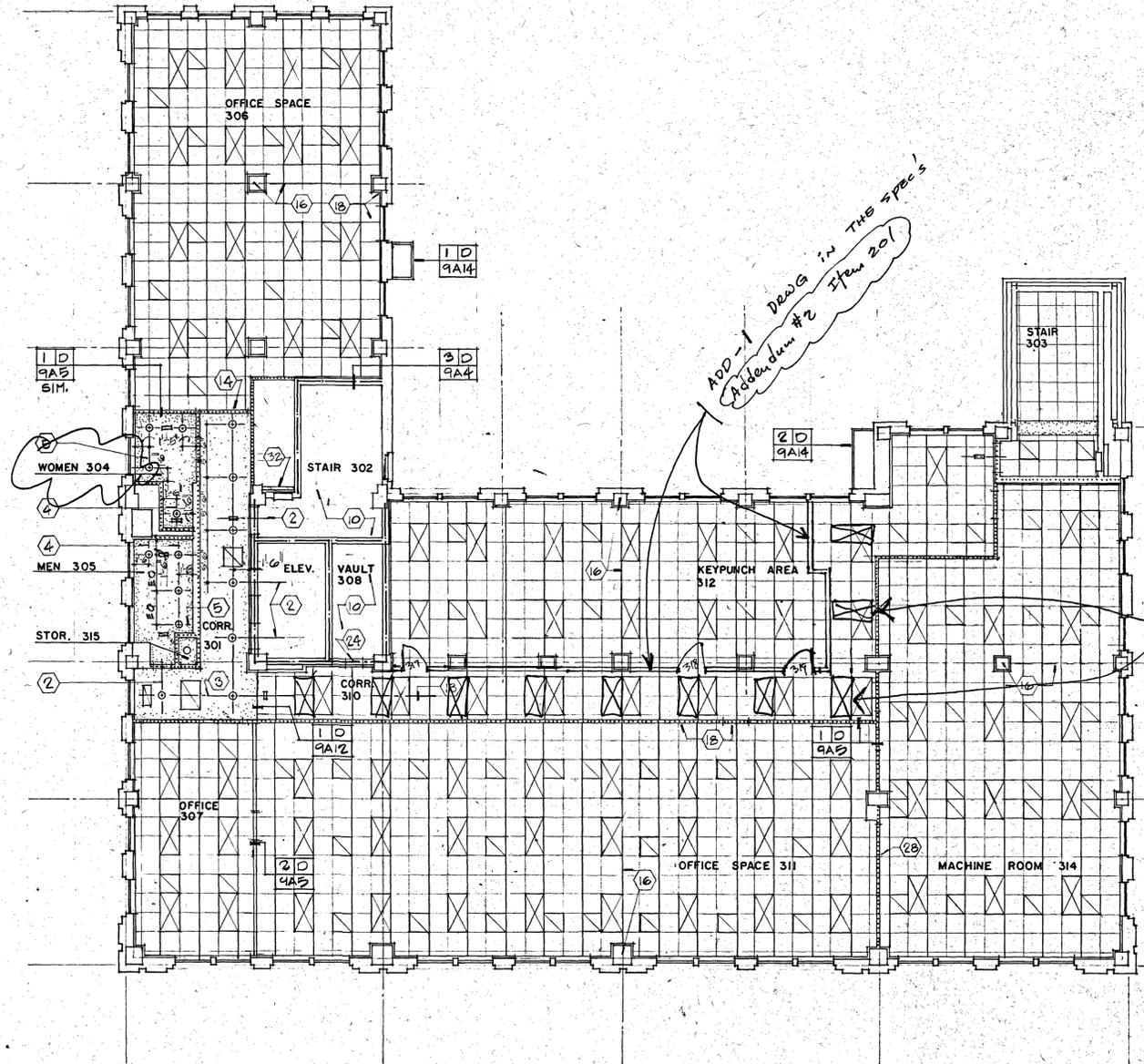
340 BEECH
 ABILENE, TEXAS
 79601
 AC 915 673 8176

NOTES: REFLECTED CLNG. PLANS SHEETS A-15 - A-21

1. Centerline of stair.
2. Centerline of door.
3. Centerline of corridor.
4. Centerline of water closet below.
5. Centerline of lav. below.
6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
7. Centerline of furred ceiling.
8. Dashed line represents mail cab. below.
9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
10. Existing light fixtures to remain.
11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
12. Centerline of opening.
13. Start ceiling layout with ceiling "T" at center of corridor.
14. Door and/or opening shall be centered on corridor.
15. Centerline of room.
16. Start ceiling layout with ceiling "T" at center of finished column.
17. Start ceiling layout by centering acoustical tile in space.
18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
20. Start ceiling layout by centering ceiling "T" in room.
21. Start ceiling layout with ceiling "T" centered between beams.
22. Start ceiling layout with ceiling "T" centered between wall and beam.
23. Door shall be centered between walls.
24. Existing opening - not to be moved.
25. Set hollow metal frame tight against west face of east partition.
26. Furred clg. ht. 7'-2-1/8" from top of slab.
27. Furred clg. ht. 7'-6" from top of slab.
28. Edge of door frame shall align with ceiling "T".
29. Furred clg. ht. 8'-0" from top of slab.
30. See Detail 1-D-9A12.
31. See Detail 2-D-9A12.
32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
33. Projection screen.
34. Furr ceiling to 7'-7"
35. Ceiling grid system shall align in these spaces.
36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.



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THIRD FLOOR - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

LEGEND - REFLECTED CEILING PLANS - A-15 - A-21

- Luminous ceiling
- 2 x 2 suspended lay-in acous. tile clg. - Main 'tees' shown as darker lines.
- Suspended gypsum board ceiling.
- Expansion Jt. - See Dets. 1-D-9A6 & 2-D-9A6.
- New partitions to terminate at fin. clg. - see Detail 1-D-9A4.
- New partition to terminate at bot. of structure - see Detail 1-D-9A5.
- Existing partition terminates at bot. of structure.
- Return air or supply air grille.
- Recessed light fixture - see electrical.
- Exit sign - see electrical.
- Fire sprinkler head.

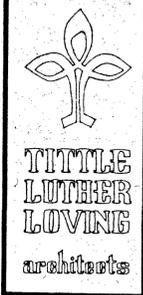
RENOVATION COMPANY TEXAS
 BUILDING UTILITIES
 WEST TEXAS
 MAIN ABILENE

313 door
 309 office

1.5 SW
2.0 SW
2.0 SW
2.0 SW
2.0 SW
2.0 SW

GENERAL NOTES: A-15 - A-21
REFLECTED CEILING PLANS

- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.



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AC 915 673 8178

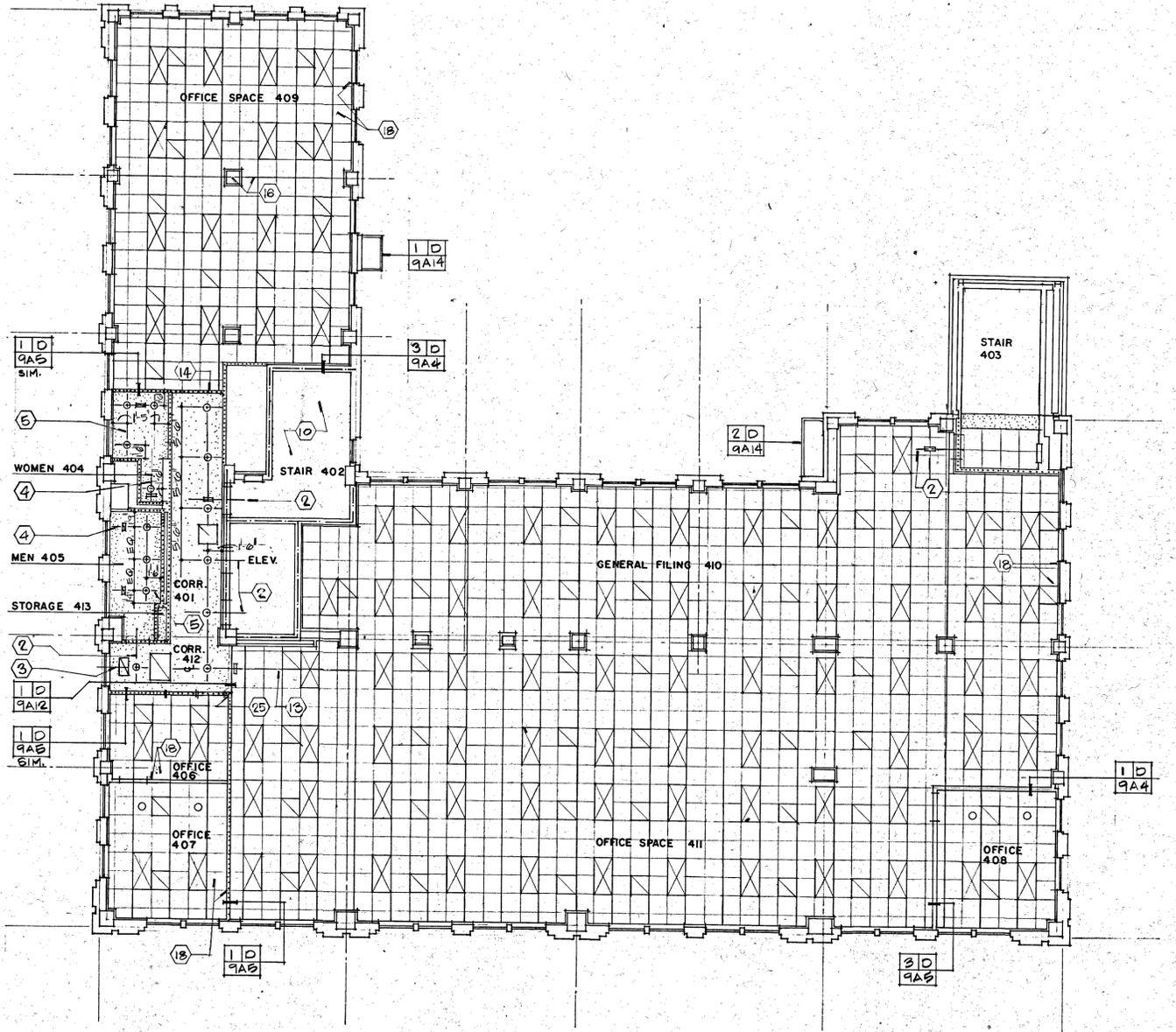
NOTES: REFLECTED CLNG PLANS SHEETS A-15 - A-21

- 1. Centerline of stair.
- 2. Centerline of door.
- 3. Centerline of corridor.
- 4. Centerline of water closet below.
- 5. Centerline of lav. below.
- 6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
- 7. Centerline of furred ceiling.
- 8. Dashed line represents mail cab. below.
- 9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
- 10. Existing light fixtures to remain.
- 11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
- 12. Centerline of opening.
- 13. Start ceiling layout with ceiling "T" at center of corridor.
- 14. Door and/or opening shall be centered on corridor.
- 15. Centerline of room.
- 16. Start ceiling layout with ceiling "T" at center of finished column.
- 17. Start ceiling layout by centering acoustical tile in space.
- 18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
- 19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
- 20. Start ceiling layout by centering ceiling "T" in room.
- 21. Start ceiling layout with ceiling "T" centered between beams.
- 22. Start ceiling layout with ceiling "T" centered between wall and beam.
- 23. Door shall be centered between walls.
- 24. Existing opening - not to be moved.
- 25. Set hollow metal frame tight against west face of east partition.
- 26. Furred clg. ht. 7'-2 1/8" from top of slab.
- 27. Furred clg. ht. 7'-6" from top of slab.
- 28. Edge of door frame shall align with ceiling "T".
- 29. Furred clg. ht. 8'-0" from top of slab.
- 30. See Detail 1-D-9A12.
- 31. See Detail 1-D-9A12.
- 32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
- 33. Projection screen.
- 34. Furr ceiling to 7'-7"±.
- 35. Ceiling grid system shall align in these spaces.
- 36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.



1427

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MAIN WEST TEXAS ABILENE



FOURTH FLOOR - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

LEGEND - REFLECTED CEILING PLANS - A-15 - A-21

- Luminous ceiling
- 2 x 2 suspended lay-in acous. tile clg. Main 'tees' shown as darker lines.
- Suspended gypsum board ceiling.
- Expansion Jt. See Dets. 1-D-9A6 & 2-D-9A6.
- New partitions to terminate at fin. clg. see Detail 1-D-9A4.
- New partition to terminate at bot. of structure - see Detail 1-D-9A5.
- Existing partition terminates at bot. of structure.
- Return air or supply air grille.
- Recessed light fixture see electrical.
- Exit sign see electrical.
- Fire sprinkler head.

DESIGN DEVELOPMENT
 1/18/81 - 4.8 hrs
 WJP
 1/18/81 - 1.5
 1/16/81 - 3 hrs.
 1/28 - 1.9
 2/12/81

GENERAL NOTES: A-15 - A-21
 REFLECTED CEILING PLANS

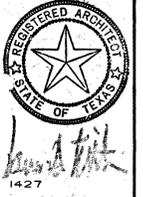
- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.



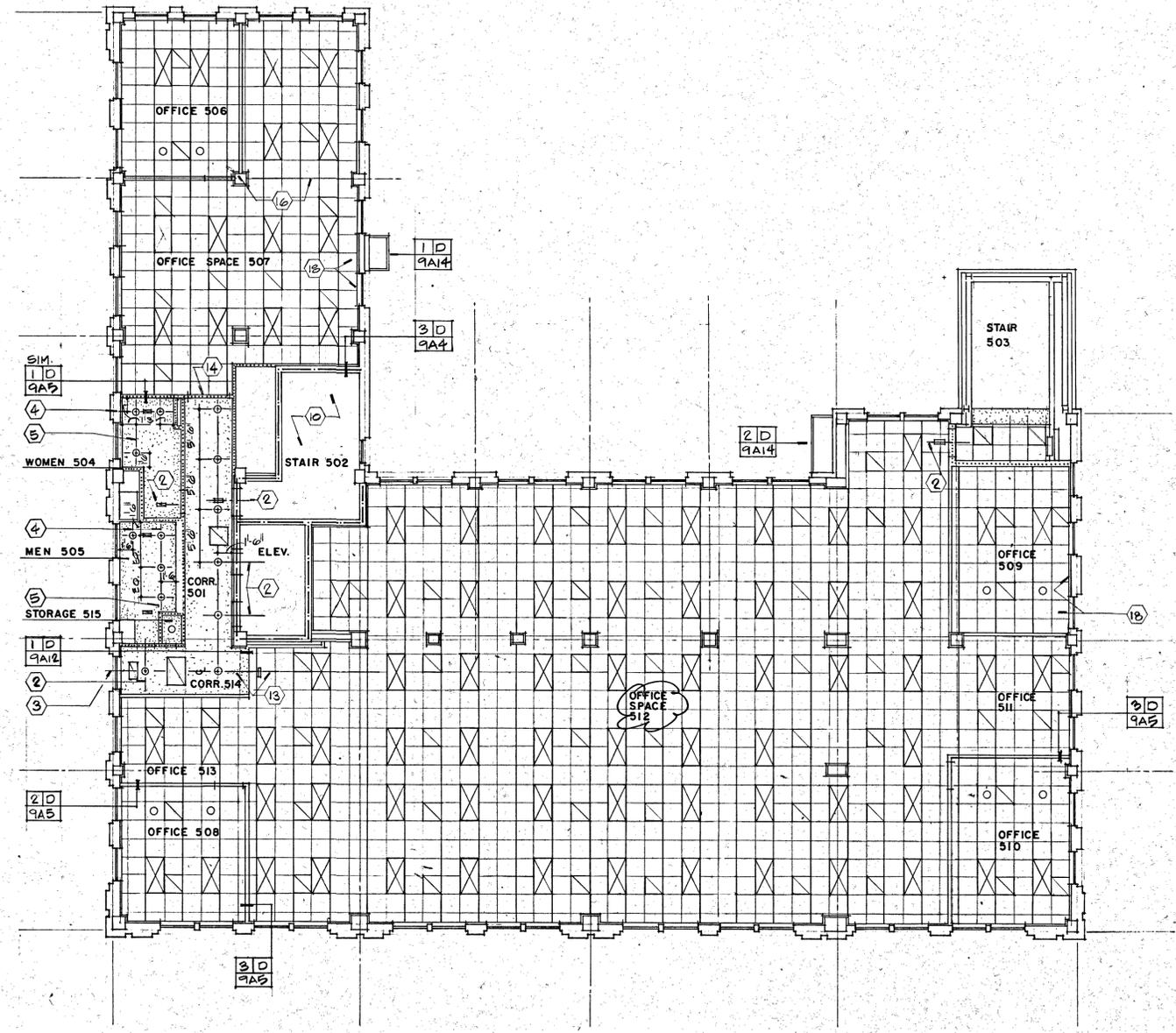
AIA
 340 BEECH
 ABILENE, TEXAS
 79601
 AC 915 673 8178

NOTES: REFLECTED CLNG PLANS SHEETS A-15 - A-21

1. Centerline of stair.
2. Centerline of door.
3. Centerline of corridor.
4. Centerline of water closet below.
5. Centerline of lav. below.
6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
7. Centerline of furred ceiling.
8. Dashed line represents mail cab. below.
9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
10. Existing light fixtures to remain.
11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
12. Centerline of opening.
13. Start ceiling layout with ceiling "T" at center of corridor.
14. Door and/or opening shall be centered on corridor.
15. Centerline of room.
16. Start ceiling layout with ceiling "T" at center of finished column.
17. Start ceiling layout by centering acoustical tile in space.
18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
20. Start ceiling layout by centering ceiling "T" in room.
21. Start ceiling layout with ceiling "T" centered between beams.
22. Start ceiling layout with ceiling "T" centered between wall and beam.
23. Door shall be centered between walls.
24. Existing opening not to be moved.
25. Set hollow metal frame tight against west face of east partition.
26. Furred clg. ht. 7'-2 1/8" from top of slab.
27. Furred clg. ht. 7'-6" from top of slab.
28. Edge of door frame shall align with ceiling "T".
29. Furred clg. ht. 8'-0" from top of slab.
30. See Detail 1-D-9A12.
31. See Detail 2-D-9A12.
32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
33. Projection screen.
34. Furr ceiling to 7'-7 1/2".
35. Ceiling grid system shall align in these spaces.
36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.



Handwritten signature
 1427



- 1 10 9A2
- 4
- 5
- 4
- 5
- 1 10 9A12
- 2
- 3
- 2 10 9A5
- 1 10 9A14
- 3 10 9A4
- 2 10 9A4
- 2 10 9A5
- 3 10 9A5

*Location of A/c Grilles
 For Room # 512 To Be As
 Shown M-G MECH SHT.
 Addendum #1 para 201*

LEGEND - REFLECTED CEILING PLANS - A-15 - A-21

- Luminous ceiling
- 2 x 2 suspended lay-in, acous. tile clg. Main 'tees' shown as darker lines.
- Suspended gypsum board ceiling.
- Expansion Jt. - See Dets. 1-D-9A6 & 2-D-9A6.
- New partitions to terminate at fin. clg. - see Detail 1-D-9A4.
- New partition to terminate at bot. of structure - see Detail 1-D-9A5.
- Existing partition terminates at bot. of structure.
- Return air or supply air grille.
- Recessed light fixture - see electrical.
- Exit sign - see electrical.
- Fire sprinkler head.



FIFTH FLOOR - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

RENOVATION COMPANY TEXAS
 BUILDING UTILITIES COMPANY TEXAS
 WEST TEXAS UTILITIES COMPANY TEXAS
 MAIN WEST TEXAS UTILITIES COMPANY TEXAS
 ABILENE

18 - 22
 10
 10
 10

GENERAL NOTES: A-15 - A-21
 REFLECTED CEILING PLANS

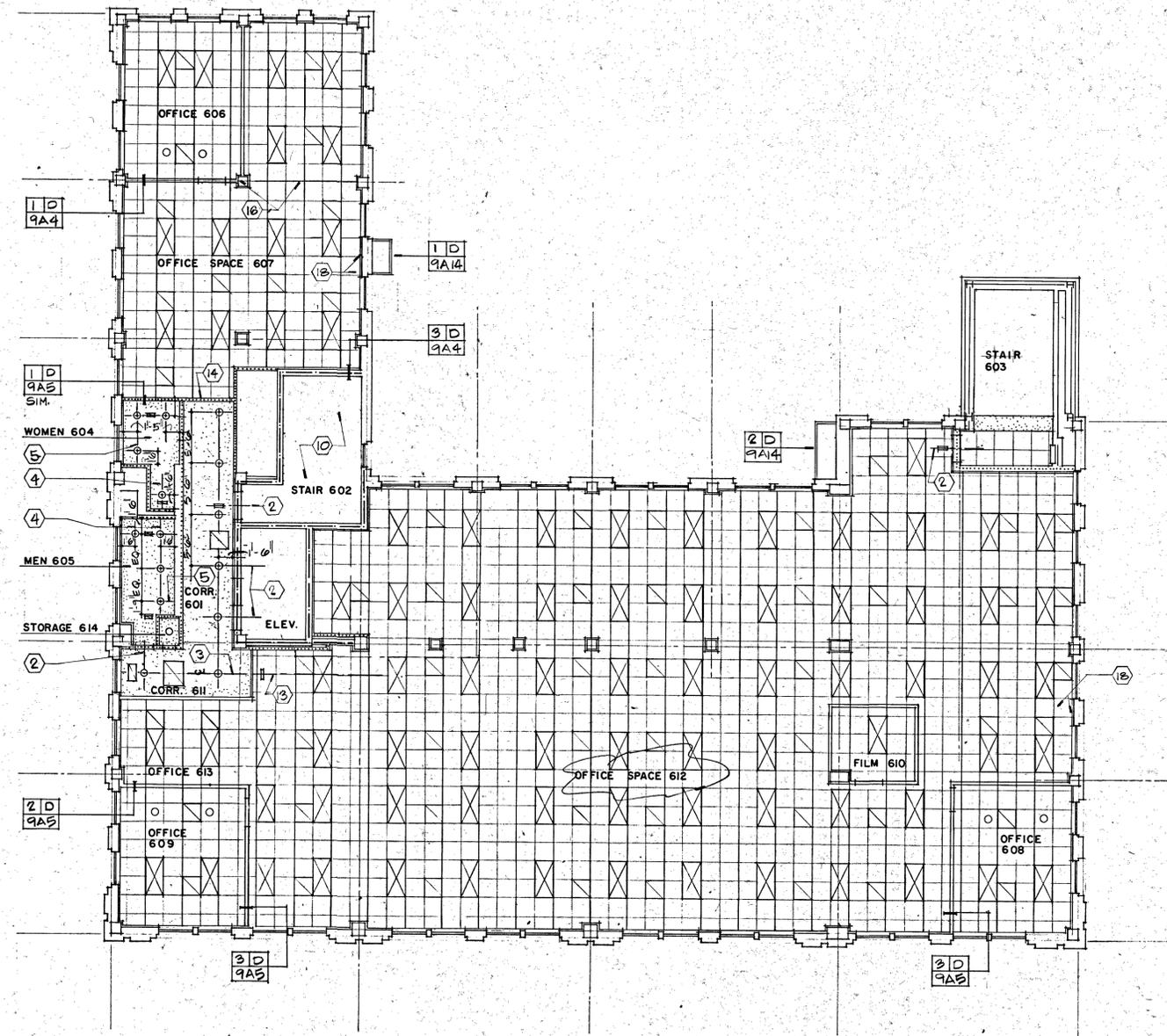
- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.


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 architects
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NOTES: REFLECTED CLNG. PLANS SHEETS A-15 - A-21

1. Centerline of stair.
2. Centerline of door.
3. Centerline of corridor.
4. Centerline of water closet below.
5. Centerline of lav. below.
6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
7. Centerline of furred ceiling.
8. Dashed line represents mail cab. below.
9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
10. Existing light fixtures to remain.
11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
12. Centerline of opening.
13. Start ceiling layout with ceiling "T" at center of corridor.
14. Door and/or opening shall be centered on corridor.
15. Centerline of room.
16. Start ceiling layout with ceiling "T" at center of finished column.
17. Start ceiling layout by centering acoustical tile in space.
18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
20. Start ceiling layout by centering ceiling "T" in room.
21. Start ceiling layout with ceiling "T" centered between beams.
22. Start ceiling layout with ceiling "T" centered between wall and beam.
23. Door shall be centered between walls.
24. Existing opening not to be moved.
25. Set hollow metal frame tight against west face of east partition.
26. Furred clg. ht. 7'-2 1/8" from top of slab.
27. Furred clg. ht. 7'-6" from top of slab.
28. Edge of door frame shall align with ceiling "T".
29. Furred clg. ht. 8'-0" from top of slab.
30. See Detail 1-D-9A12.
31. See Detail 1-D-9A12.
32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
33. Projection screen.
34. Furr ceiling to 7'-7"±.
35. Ceiling grid system shall align in these spaces.
36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.


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Location of A/C GRILLES
 FOR ROOM # 612 TO 85 AS
 SHOWN M-7 NORTH SHET.
 Addendum #1 page 201

LEGEND - REFLECTED CEILING PLANS - A-15 - A-21

-  Luminous ceiling
-  2 x 2 suspended lay-in acous. tile clg. Main "tees" shown as darker lines.
-  Suspended gypsum board ceiling.
-  Expansion Jt. See Dets. 1-D-9A6 & 2-D-9A6.
-  New partitions to terminate at fin. clg. see Detail 1-D-9A4.
-  New partition to terminate at bot. of structure - see Detail 1-D-9A5.
-  Existing partition terminates at bot. of structure.
-  Return air or supply air grille.
-  Recessed light fixture see electrical.
-  Exit sign see electrical.
-  Fire sprinkler head.

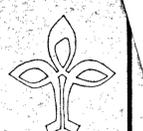

SIXTH FLOOR - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

RENOVATION BUILDING UTILITIES COMPANY TEXAS
 WEST TEXAS UTILITIES COMPANY TEXAS
 MAIN ABILENE

1618 - 5
 171 - 7.5
 181 - 3.2
 191 - 1.4
 201 - 1.4
 211 - 1.4
 221 - 1.4
 231 - 1.4
 241 - 1.4
 251 - 1.4
 261 - 1.4
 271 - 1.4
 281 - 1.4
 291 - 1.4
 301 - 1.4

GENERAL NOTES: A-15 - A-21
 REFLECTED CEILING PLANS

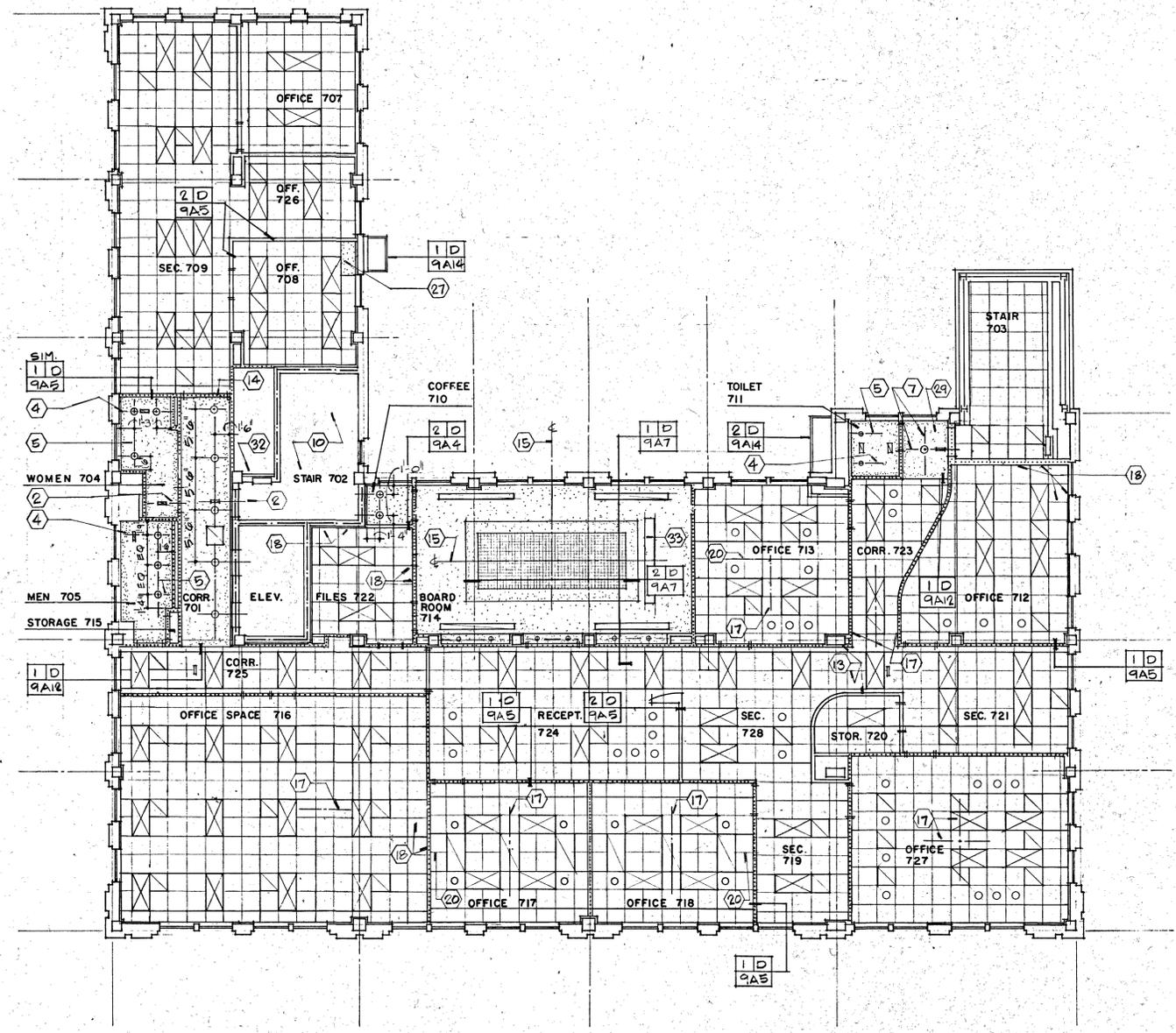
- A. Contractor shall check and verify all dimensions, conditions, etc. with existing constructions in the field before any construction and/or fabrication is started.
- B. All references to top of slab in the construction documents - top of slab is equal to finish floor at exit to existing fire stair and elevator.
- C. Doors and/or openings in interior partitions at/or adjacent to suspended acoustical tile ceilings shall be centered on centerline of ceiling "T's" and/or tile unless otherwise noted or dimensioned.


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 architects
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 AC 915 673-8178

NOTES: REFLECTED CLNG PLANS SHEETS A-15 - A-21

1. Centerline of stair.
2. Centerline of door.
3. Centerline of corridor.
4. Centerline of water closet below.
5. Centerline of lav. below.
6. Dashed line represents structural beam with 7/8" furring channels at 16" o.c. covered with 1/2" gypsum board.
7. Centerline of furred ceiling.
8. Dashed line represents mail cab. below.
9. Relocate existing light fixture in lobby by centering in opening between 1st & 2nd floor.
10. Existing light fixtures to remain.
11. New gypsum board partition below will align with gypsum board on 7/8" furring channels on face of beam.
12. Centerline of opening.
13. Start ceiling layout with ceiling "T" at center of corridor.
14. Door and/or opening shall be centered on corridor.
15. Centerline of room.
16. Start ceiling layout with ceiling "T" at center of finished column.
17. Start ceiling layout by centering acoustical tile in space.
18. Start ceiling layout by using a full 2 x 2 acoustical tile at face of wall and/or furring.
19. Start clg. layout by using a full 2 x 2 acoustical tile at face of finished beam.
20. Start ceiling layout by centering ceiling "T" in room.
21. Start ceiling layout with ceiling "T" centered between beams.
22. Start ceiling layout with ceiling "T" centered between wall and beam.
23. Door shall be centered between walls.
24. Existing opening - not to be moved.
25. Set hollow metal frame tight against west face of east partition.
26. Furred clg. ht. 7'-2 1/8" from top of slab.
27. Furred clg. ht. 7'-6" from top of slab.
28. Edge of door frame shall align with ceiling "T".
29. Furred clg. ht. 8'-0" from top of slab.
30. See Detail 1-D-9A12.
31. See Detail 2-D-9A12.
32. Extend wall to a min. of 8" above top of hose cabinet and close top with two layers of 1/2" fire code gypsum board.
33. Projection screen.
34. Furr ceiling to 7'-7" ±.
35. Ceiling grid system shall align in these spaces.
36. Bottom ceiling shall be 3/4" above bottom of finished beams in this bay only.


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 STATE OF TEXAS
 1427

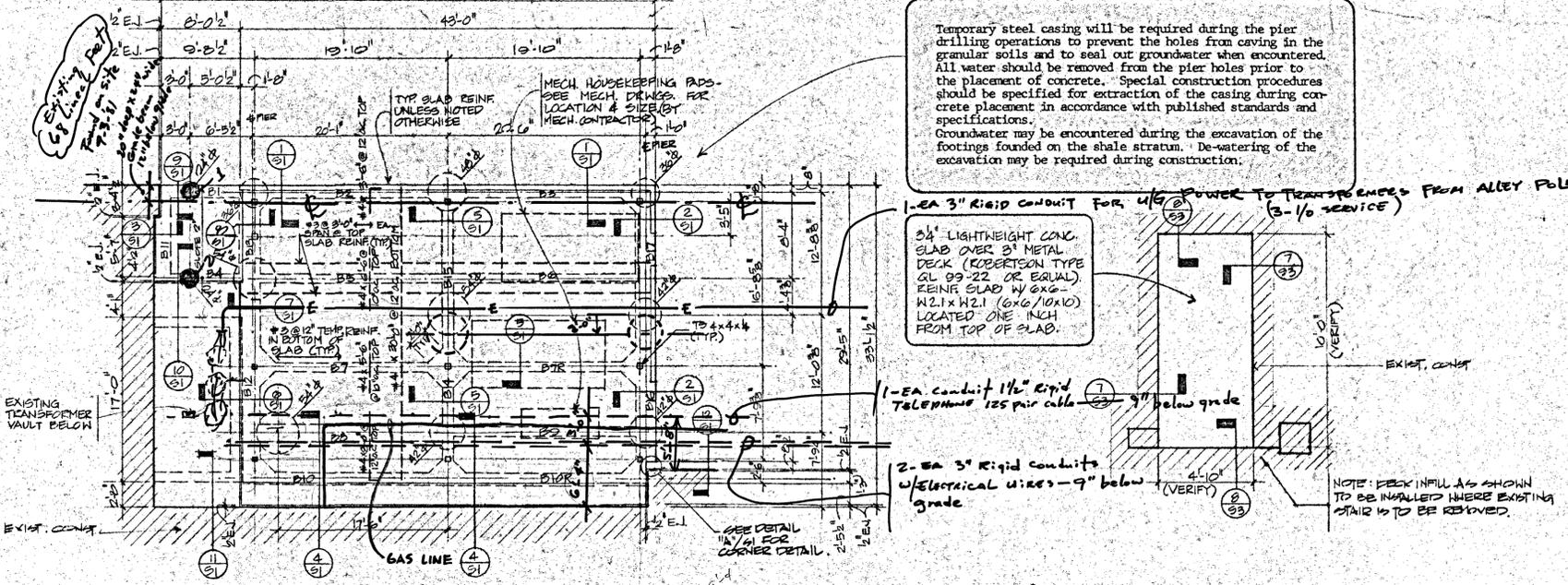


SEVENTH FLOOR - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

LEGEND - REFLECTED CEILING PLANS - A-15 - A-21

-  Luminous ceiling
-  2 x 2 suspended lay-in acous. tile clg. Main "tees" shown as darker lines.
-  Suspended gypsum board ceiling.
-  Expansion Jt. See Dets. 1-D-9A6 & 2-D-9A6.
-  New partitions to terminate at fin. clg. see Detail 1-D-9A4.
-  New partition to terminate at bot. of structure - see Detail 1-D-9A5.
-  Existing partition terminates at bot. of structure.
-  Return air or supply air grille.
-  Recessed light fixture see electrical.
-  Exit sign see electrical.
-  Fire sprinkler head.

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 MAIN WEST TEXAS UTILITIES COMPANY TEXAS
 ABILENE



MECHANICAL ROOM FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

PARTIAL 3rd FLOOR FRAMING PLAN

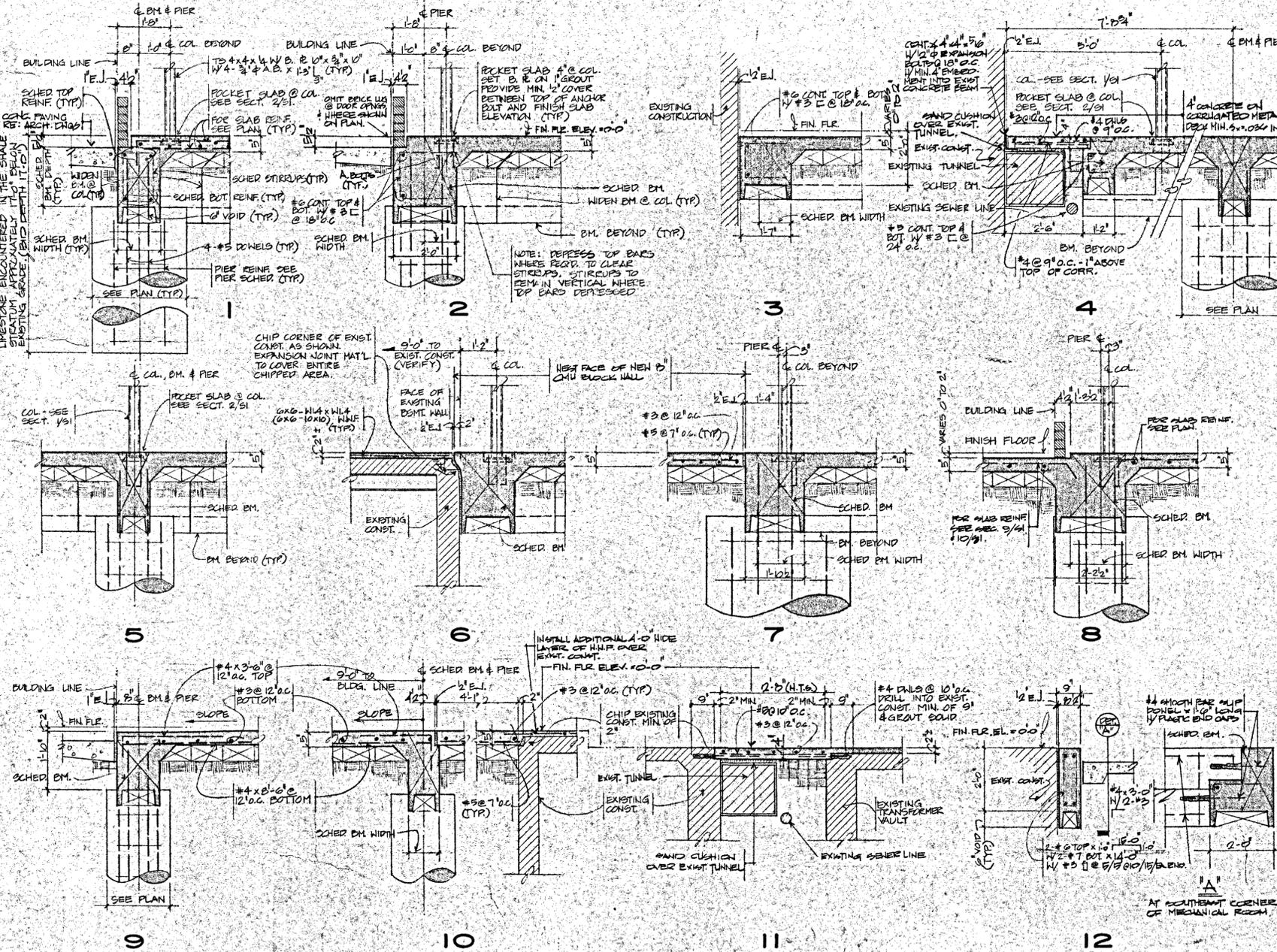
SCALE: 1/8" = 1'-0"

SCALE AT SECTIONS: 1/2" = 1'-0" UNLESS NOTED OTHERWISE.

Temporary steel casing will be required during the pier drilling operations to prevent the holes from caving in the granular soils and to seal out groundwater when encountered. All water should be removed from the pier holes prior to the placement of concrete. Special construction procedures should be specified for extraction of the casing during concrete placement in accordance with published standards and specifications. Groundwater may be encountered during the excavation of the footings founded on the shale stratum. De-watering of the excavation may be required during construction.

1-EA 3" RIGID CONDUIT FOR 4/0 POWER TO TRANSFORMERS FROM ALLEY POLE (3-10 SERVICE)
 3/4" LIGHTWEIGHT CONC. SLAB OVER 3" METAL DECK (ROBERTSON TYPE CL. 99-22 OR EQUAL). REINFC. SLAB W/ 6X6-W2.1 X W2.1 (6X6/10X10) LOCATED ONE INCH FROM TOP OF SLAB.

1-EA CONDUIT 1 1/2" RIGID TELEPHONE 125 PAIR CABLE - 9" BELOW GRADE
 2-EA 3" RIGID CONDUITS W/ ELECTRICAL WIRES - 9" BELOW GRADE



GENERAL NOTES

Concrete shall be stone aggregate concrete unless noted otherwise. Minimum concrete compressive strength shall be 3000 pounds per square inch when tested at 28 days. *Lightweight Structural Concrete for second floor slab shall be lightweight structural aggregate concrete and weigh not more than 115 pounds per cubic foot. Minimum concrete compressive strength shall be 3000 pounds per square inch when tested at 28 days. Excavation for footings shall be neat. Footing concrete shall be placed immediately after excavation. Concrete floor slab shall be placed monolithically with beams. Where shown on drawings grade beams and structural floor slabs at grade shall be poured on 6" deep asphalt or wax impregnated forms (Jay-Voids as manufactured by the Lawrence Paper Company or equal). Beam carton forms shall be 2" less than beam width and centered under beam. Slab forms shall be beam bottom type. Horizontal construction joints in concrete pours shall be permitted only where indicated on the drawings. All construction joints shall be made in the center of spans - see drawings for typical detail. The location of construction joints shall be as approved by the Architect and the Structural Engineer. Additional reinforcing at construction joints shall be as specified by the Engineer without additional cost to the owner. No conduit or piping larger than 1" I.D. shall be run in structural concrete members unless shown on structural drawings. All pipe sleeves in concrete members shall be schedule 40, galvanized steel pipe unless shown otherwise on the structural drawings. Location of sleeves shall be as approved by the Structural Engineer. Provide 3 additional stirrups each side of each sleeve in beams and spaced as directed by the Engineer.

Reinforcing Steel shall be deformed new billet steel bars in accordance with A.S.T.M. Specification A615 Grade 40 and 60. All #3 bars shall be grade 40. All stirrups shall be Grade 40 with standard 90° hooks. Detailing of reinforcing steel shall conform to the American Concrete Institute Detailing Manual. Provide 2-#7 x 4'-0" top and bottom at all corners and "T" intersections of grade beams. All hooks and bends in reinforcing bars shall conform to ACI Standards unless shown otherwise. Scheduled bar lengths include hooks. Lap continuous unscheduled reinforcing bars 36 bar diameters. Tack welding on reinforcing steel will not be permitted. Reinforcing steel coverage shall be as follows: Grade beams - 1 1/2" top, 3" bottom, 2" side formed, 3" side against earth; Slabs above grade - 1"; Beams above grade - 1 1/2"; Walls - 2"; Drilled circular footings - 6" bottom, 3" sides. Horizontal wall steel shall be continuous with 90° bends and 12" returns along each wall at corners.

All Structural Steel shall conform to A.S.T.M. Specification A-36. Structural steel details and connections shall conform to the standards of the A. I. S. C. Field connections shall be equivalent to standard framed connections using minimum 3/4" diameter A.S.T.M. A325 bolts unless otherwise shown. Connections shall be bolted or welded - see details. Provide web connections for steel beams at columns unless otherwise noted. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected. All welding shall conform to the American Welding Society Code Column base plates shall be grouted with a nonshrinking, high strength, metallic aggregate grout (Master Builders EMBECO). Equal Tube and pipe columns shall be slotted to receive connection plates. Structural steel shall be punched for wood blocking and nailers in accordance with architectural details. The top flange of all structural steel beams to which shear connector studs are to be welded shall not be painted and shall be free from rust, scale, or other deleterious matter which would adversely affect the welding operation.

Open Web Steel Joists shall conform to the standards of the Steel Joist Institute. Details of Joists shall be angles or tees. Bridging shall be horizontal rods or angles in accordance with paragraph 3.4 of the Steel Joist Institute Specifications. The number of rows of bridging is shown on plan. Bridging shall be continuous through structural steel purlines, and shall be anchored to spandrel members or walls. Open web steel joists shall be welded to steel supports with the equivalent of one 1/8" fillet weld 1" long each side of joist seat. Provide flat bearing for all joists.

*Floor Slab at Second Floor shall be 3 1/2" lightweight aggregate concrete on 3" galvanized metal deck manufactured by H. W. Robertson Company, or equal. Reinforce slab with 6x6-W2.1xW2.1 (6x6/10x10) #4 wire mesh located one inch from top of slab. Deck shall be installed with 1/4" diameter puddle welds at end and side laps in accordance with the manufacturer's directions. Shear connectors shall be 3/4" diameter, 5" long studs equivalent to "Nelson studs". See plans for number and location. Provide standard steel edge form closures.

Shoring of structural steel framing components shall be provided for as follows: 3" deep metal deck at midspan for simple spans and shoring for multiple spans; composite steel beams - at midspan. Shoring, bracing and deck shall remain in place until the concrete has reached its required 28 day strength unless otherwise permitted by the Engineer.

Coordination: Only certain of the required sleeve openings in structural framing component members, and only certain of the required framed openings in and/or through structural assembly are indicated on the structural series drawings. However, all sleeves, inserts and openings, including frames and/or sleeves therefore, shall be provided for the passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. The providing for sleeves or framed openings shall include the verification of and, if required, the adjustment of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the structural series drawings, but required as above, shall be indicated on shop drawings prepared as part of the work, and shall have been approved by the Engineer.

Refer to Architectural, Mechanical, Electrical and Plumbing series drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

Structural series drawings shall be compared with drawings of other series; differences shall be referred to the Architect for instruction.

All dimensions and conditions of existing improvements shall be verified at the job site; the Architect shall be given notice of discrepancy between existing conditions and drawings, and requested to issue instructions.

Compatibility of accommodation and provision for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the accommodation has been designed prior to submission of shop drawings and submittal data for each equipment and for structural components; differences shall be referred to the Architect for review and approval or notation.

PIER SCHEDULE		
SHAFT DIAMETER	VERTICAL REINF.	TIES
24"	4-#7	#3@14"
36"	4-#10	#3@15"
42"	6-#9	#3@15"
48"	8-#10	#3@15"
54"	8-#11	#4@20"
60"	12-#10	#4@20"

PIER LEGEND

TYPICAL PIER CROSS SECTION

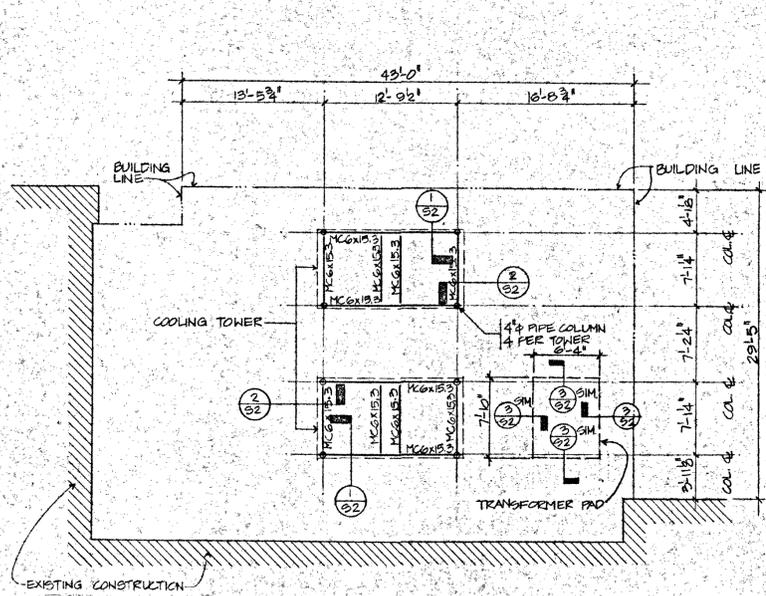
*LIGHTWEIGHT CONCRETE SLABS AND METAL DECK NOTES SHALL ALSO APPLY AT PARTIAL 3RD FLOOR FRAMING.

FIELD VERIFY ALL DIMENSIONS CONCERNING EXISTING CONSTRUCTION



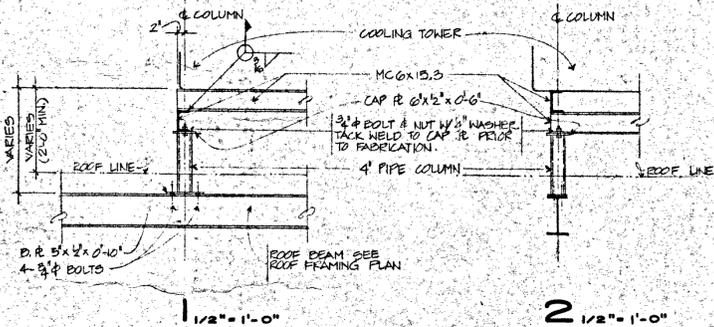
RENOVATION BUILDING WEST TEXAS UTILITIES COMPANY ABILENE TEXAS

S-1

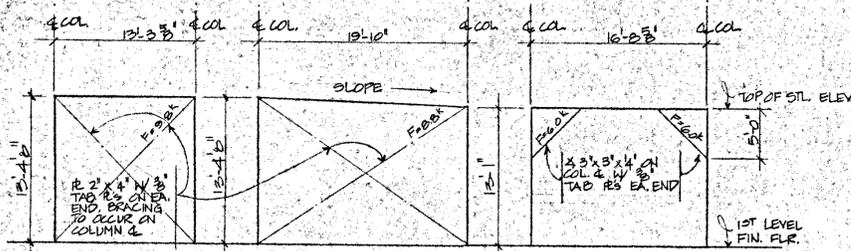


COOLING TOWER SUPPORT FRAMING PLAN

SCALE: 1/8" = 1'-0"

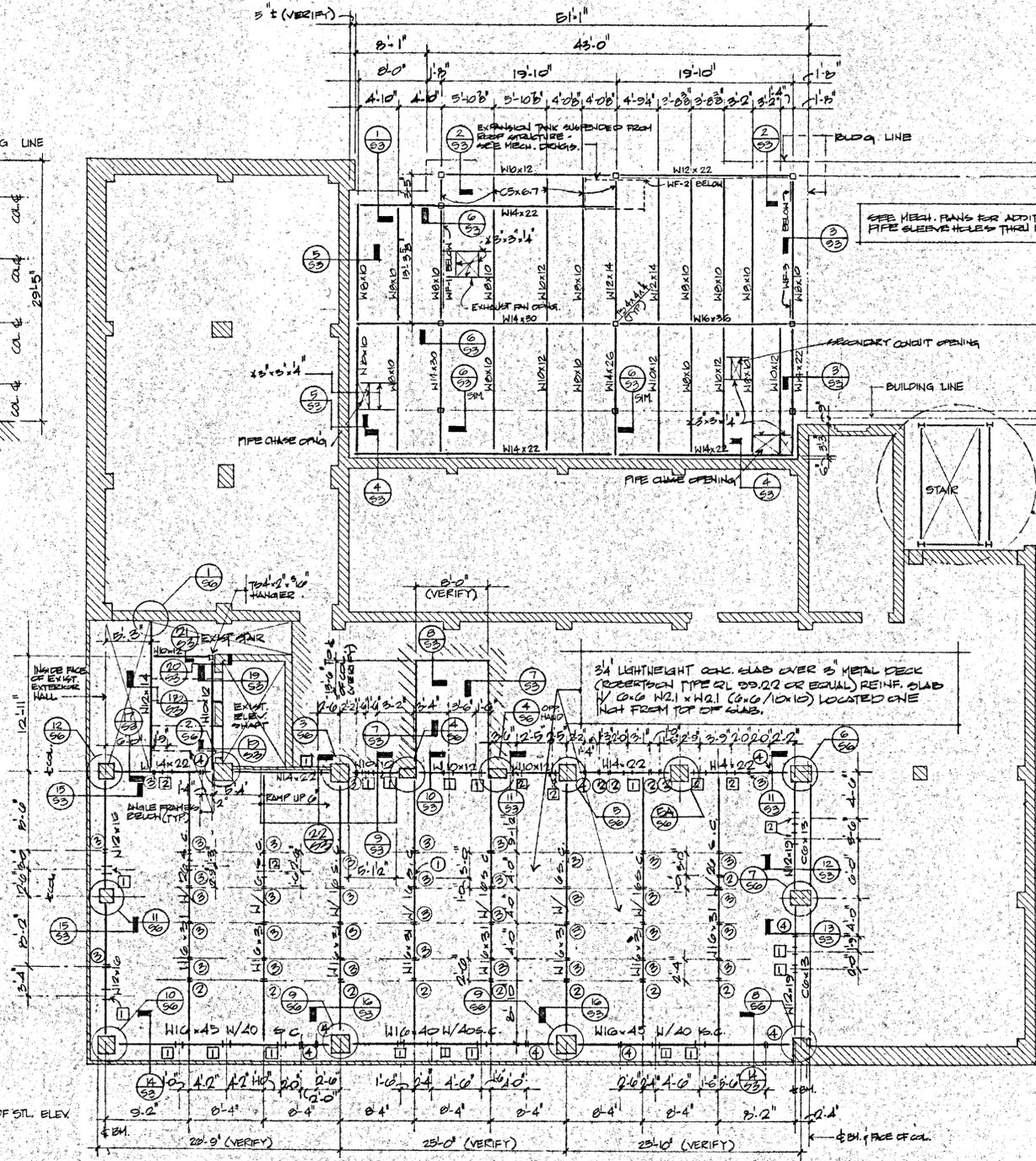


2 1/2" = 1'-0"



MECHANICAL ROOM WIND FRAMES

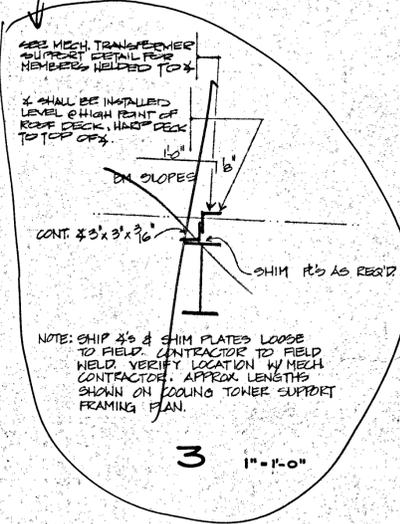
SCALE: 1/8" = 1'-0"



SECOND FLOOR AND MECHANICAL ROOM ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

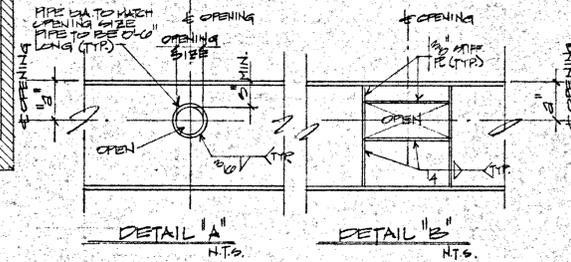
Transformer Installation
 For Details see
 App-21 to App-26 Drawings
 Per: A-Standard #2, 507C



3 1" = 1'-0"

SEE DET 3-4 FOR STAIR FRAMING.

BEAM PENETRATION SCHEDULE			
MARK	OPENING SIZE	"d"	REMARKS
①	2' x 4'	4"	SEE DETAIL 'A'
②	5' x 4'	4 1/2"	SEE DETAIL 'A'
③	4' x 5'	5"	SEE DETAIL 'A'
④	5' x 5'	5 1/2"	SEE DETAIL 'A'
□	1'-0" x 0'-5"	5/2"	SEE DETAIL 'B'
▣	1'-0" x 0'-5"	5/2"	SEE DETAIL 'B'

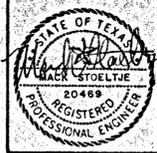


DETAIL 'A'
N.T.S.

DETAIL 'B'
N.T.S.

FIELD VERIFY ALL DIMENSIONS CONCERNING EXISTING CONSTRUCTION

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 CONSULTING ENGINEERS
 401 West 29th Street
 Austin, Texas 78705
 Area Code (512) 477-3633

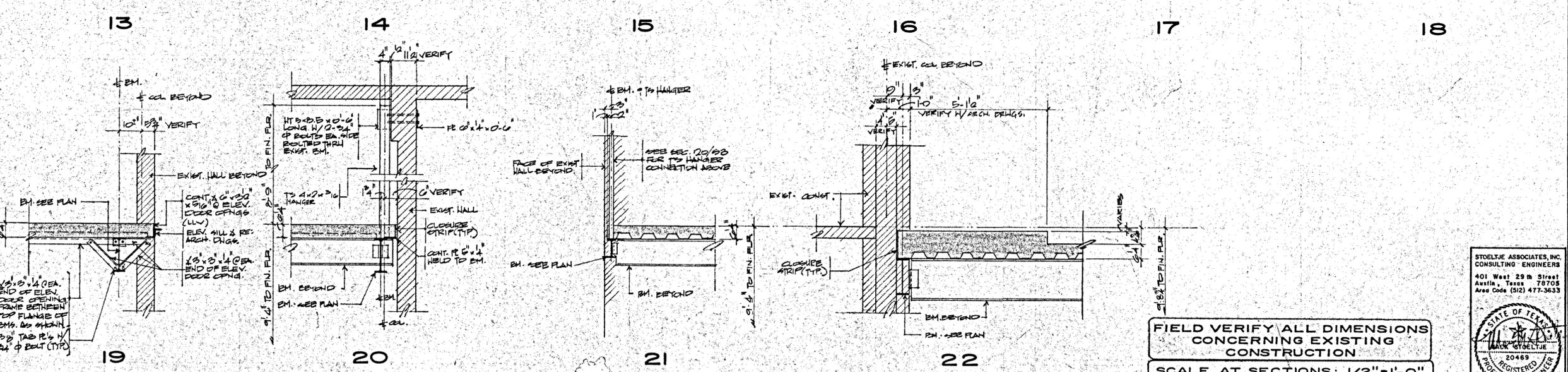
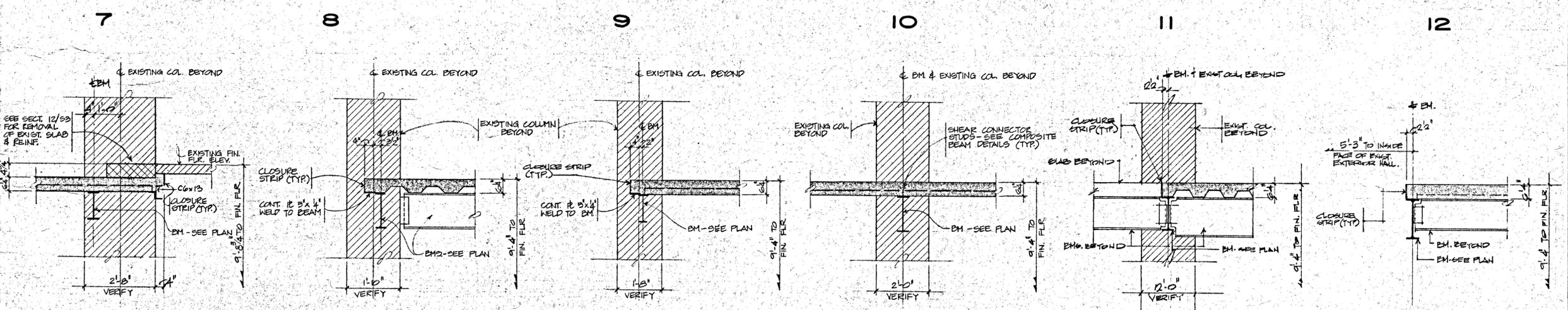
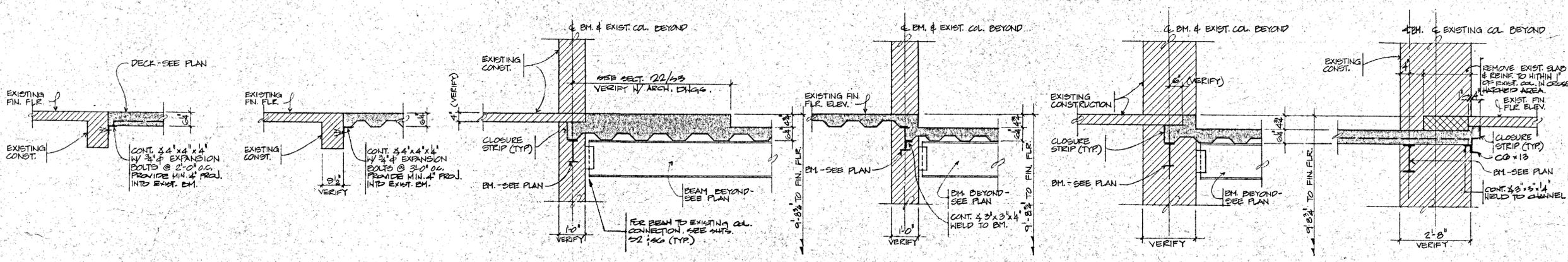
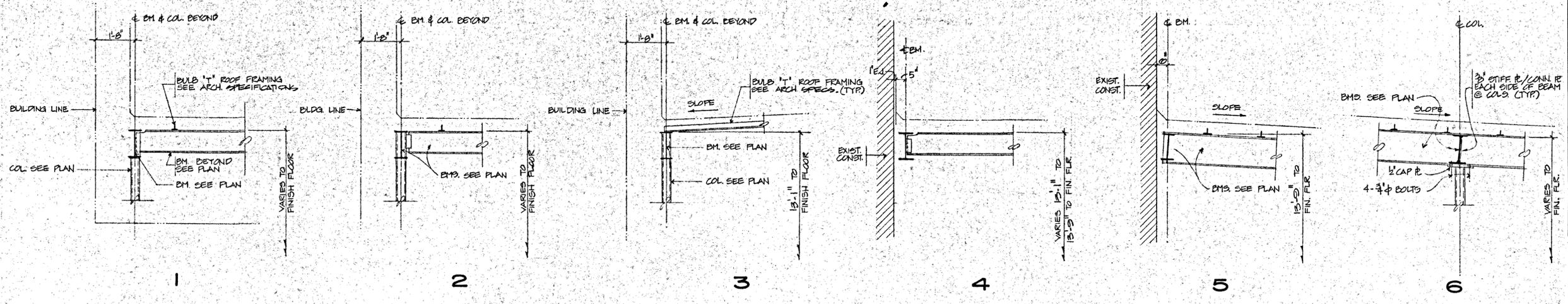


TITTLE LUTHER LOVING architects

340 BEECH ABLENE TEXAS 79601 AC 915 673 1111



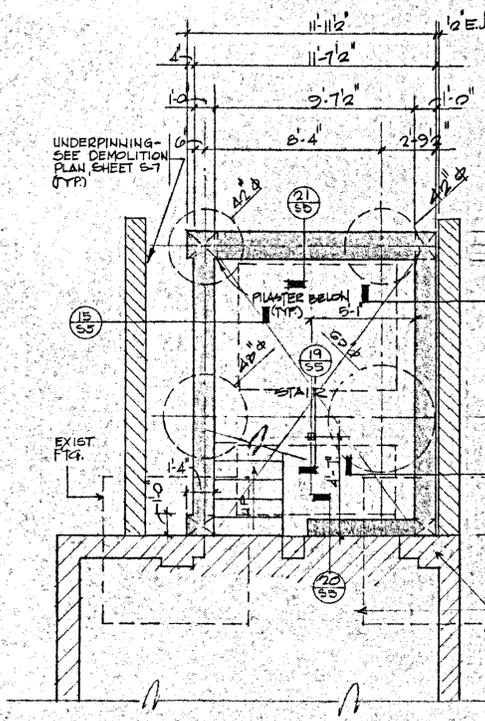
RENOVATION COMPANY TEXAS
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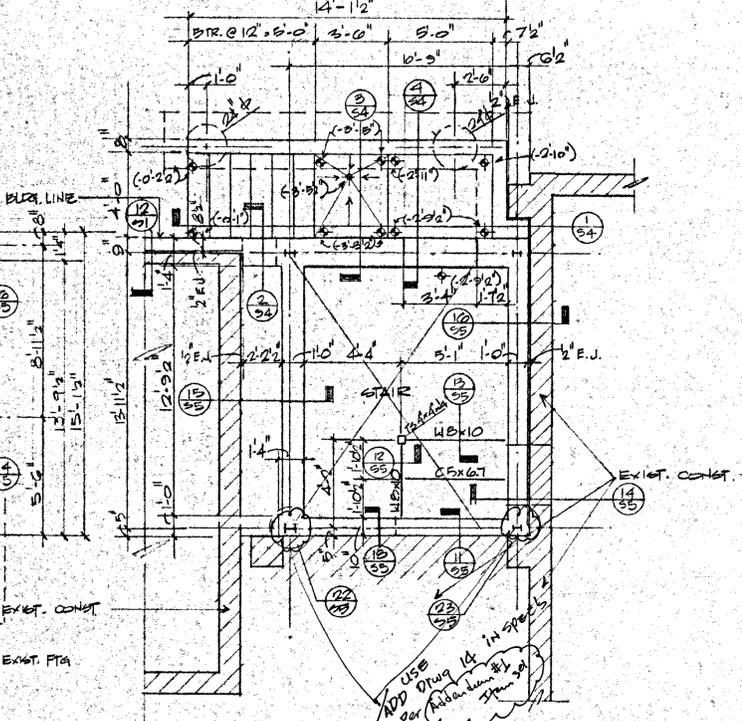
FIELD VERIFY ALL DIMENSIONS CONCERNING EXISTING CONSTRUCTION
SCALE AT SECTIONS: 1/2" = 1'-0"
UNLESS NOTED OTHERWISE.

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CONSULTING ENGINEERS
401 West 29th Street
Arling, Texas 78705
Area Code (512) 477-3633

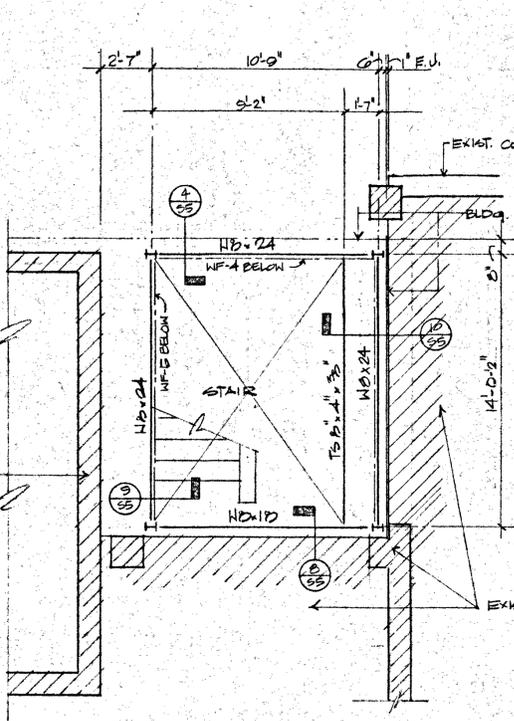




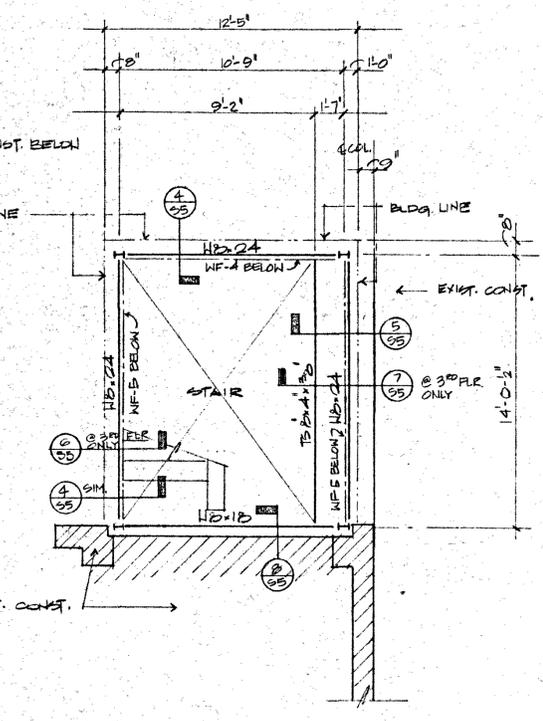
FOUNDATION PLAN
4'-10"



1st FLOOR FRAMING PLAN
4'-10"



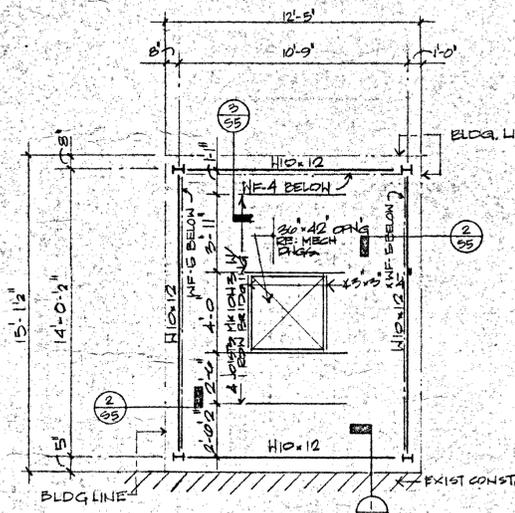
2nd FLOOR FRAMING PLAN
4'-10"



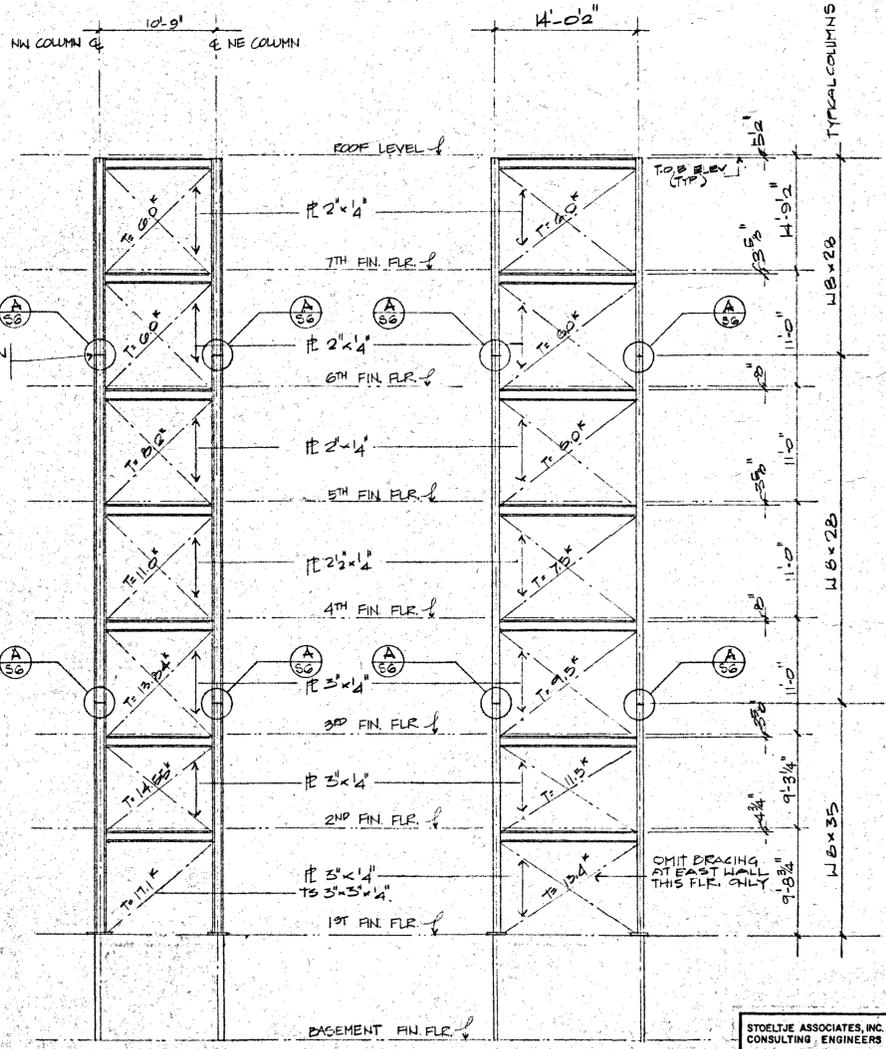
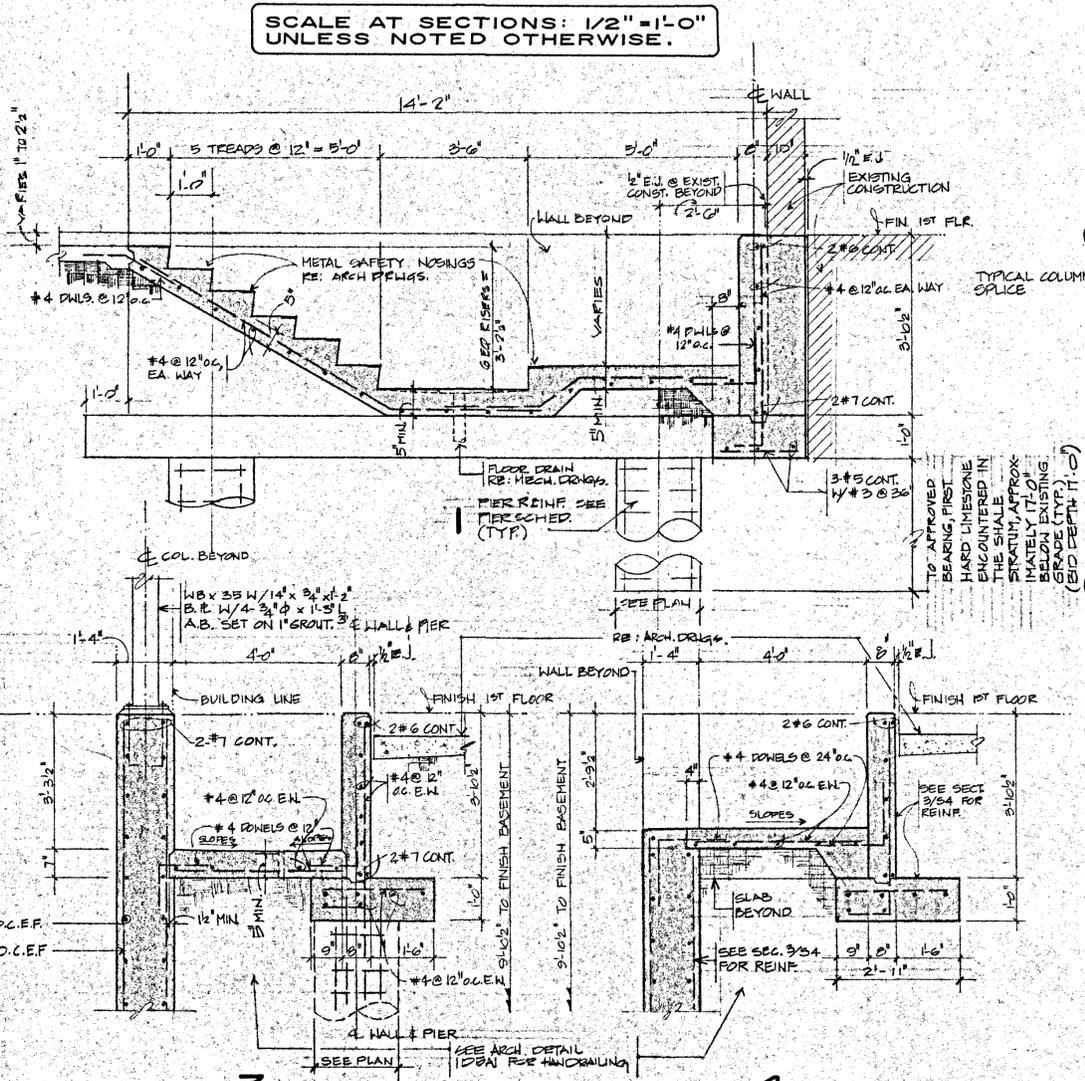
FLOORS 3 THRU 7 FRAMING PLAN
4'-10"

STAIR FRAMING PLANS

SCALE AT SECTIONS: 1/2" = 1'-0"
UNLESS NOTED OTHERWISE.



ROOF FRAMING PLAN
4'-10"



WF.4
1/2" = 1'-0"

WF.5
1/2" = 1'-0"

FIELD VERIFY ALL DIMENSIONS
CONCERNING EXISTING
CONSTRUCTION

NOTE: BRACING FOR WHP
FRAMES 4 & 5 SHALL OCCUR
IN WALL CAVITY.

STOELTJE ASSOCIATES, INC.
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REGISTERED PROFESSIONAL ENGINEER
MACK STOELTJE
20469



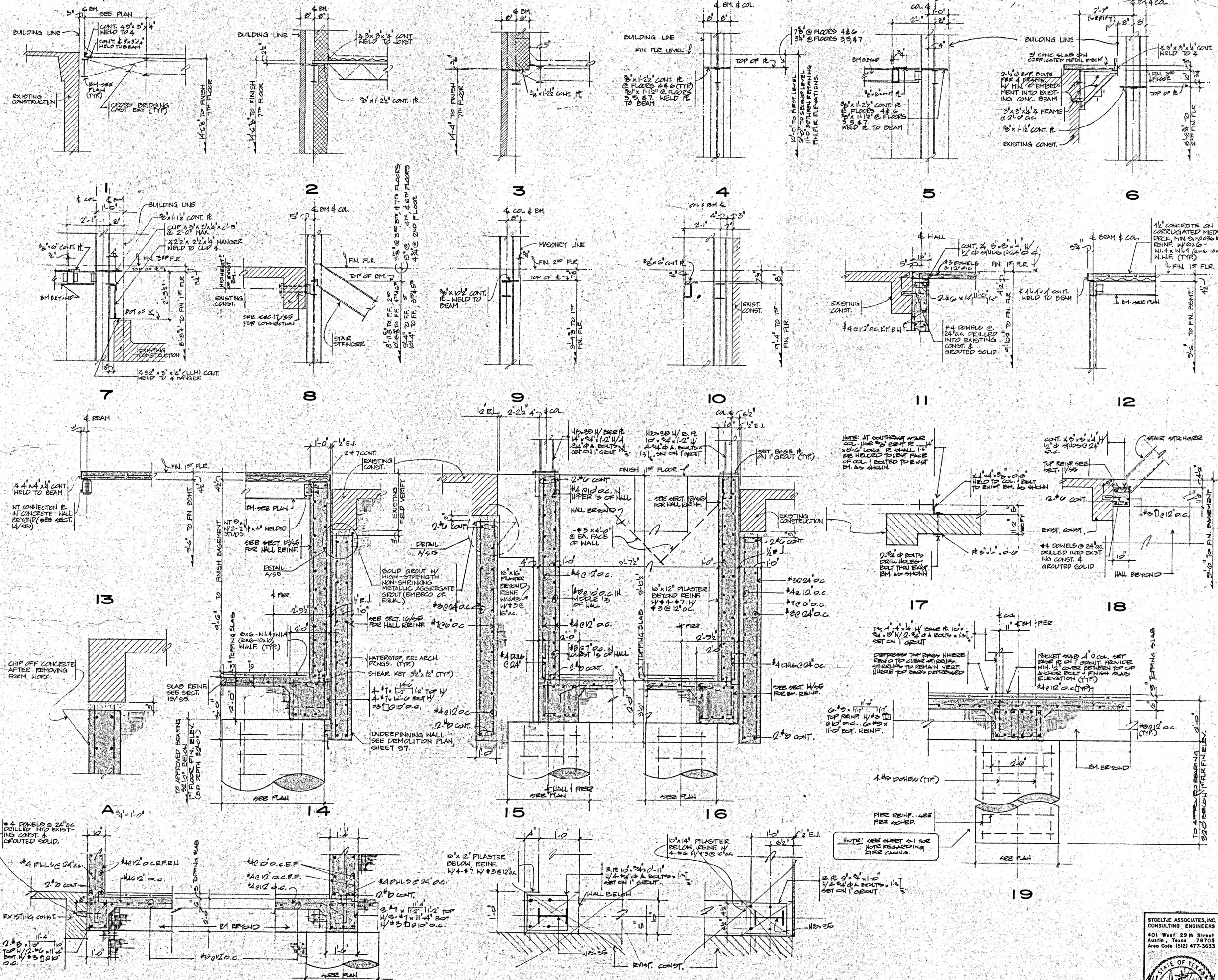
TITTLE LUTHER LOVINS architects

340 BEEBIE AVENUE, ABILENE, TEXAS 79601
AC 915.673.8178



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S.5



SCALE AT SECTIONS: 1/2" = 1'-0"
UNLESS NOTED OTHERWISE.

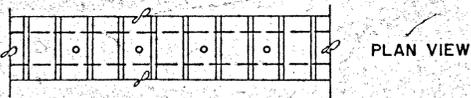
USE ADD Draw-14 in Specs
Per Addendum #1, Item 301

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CONSULTING ENGINEERS
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Austin, Texas 78705
Area Code (512) 477-3633

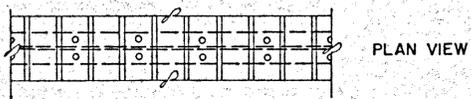


TYPICAL COMPOSITE BEAM DETAILS

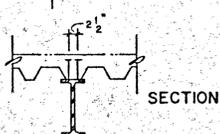
SINGLE PATTERN (DECK PERPENDICULAR TO BEAM)



DOUBLE PATTERN (DECK PERPENDICULAR TO BEAM)



DOUBLE PATTERN (DECK PARALLEL TO BEAM)



COMPOSITE BEAM NOTES:

1. Space studs uniformly along length of beam. Where deck flute spacing prevents uniform spacing, space equally as many studs as possible. Place the remaining studs, one to a flute beginning at each end of the beam, in a double pattern.
2. Minimum stud spacing is 2-1/2" c-c.
3. Studs in single pattern are designed for 9.5 kips allowable. Studs in double pattern are designed for 7.65 kips allowable.
4. All studs are 3/4" Ø, 5" long headed studs, except as noted.

STUD SHEAR CONNECTOR NOTES

Installation and Workmanship

- a. Studs shall be welded to steel members with automatically timed stud welding equipment connected to a suitable power source.
- b. While in operation, the welding gun shall be held in position without movement until the weld metal has solidified.
- c. At the time of welding, the studs shall be free from rust, rust pits, scale, oil, or other deleterious matter that would adversely affect the welding operation.
- d. The stud base shall not be painted, galvanized or cadmium-plated prior to welding.
- e. The areas on the member to which the studs are to be welded shall be free of rust, scale or other injurious material to the extent necessary to obtain satisfactory welds. These areas may be cleaned by wire brushing, peening, prick-punching, or grinding. Extreme care should be exercised when welding through metal decking.
- f. Welding shall not be done when the base metal temperature is below 0°F (-18°C) or when the surface is wet or exposed to falling rain or snow. When the temperature of the base metal is below 32°F (0°C), one stud in each 100 studs welded shall be tested by the method specified in Inspection Requirements, section "a", in addition to the first two tested, as specified in Quality Control, section "a".
- g. Longitudinal and lateral spacings of stud shear connectors with respect to each other and to edges of beam or girder flanges may vary a maximum of 1" from the location shown in the drawings, provided the adjacent studs are not closer than 2 1/2" center-to-center. The minimum distance from the edge of a stud base to the edge of a flange shall be the diameter of the stud plus 1/8" but preferably not less than 1 1/2". Other types of studs shall be so located as to permit a workmanlike assembly of attachments without alterations or reaming.
- h. After welding, arc shields shall be broken free from shear connectors, where practicable.
- i. The studs, after welding, shall be free of any discontinuities or substances that would interfere with their intended function. However, nonfusion on the vertical leg of the flash and small shrink fissures are acceptable.

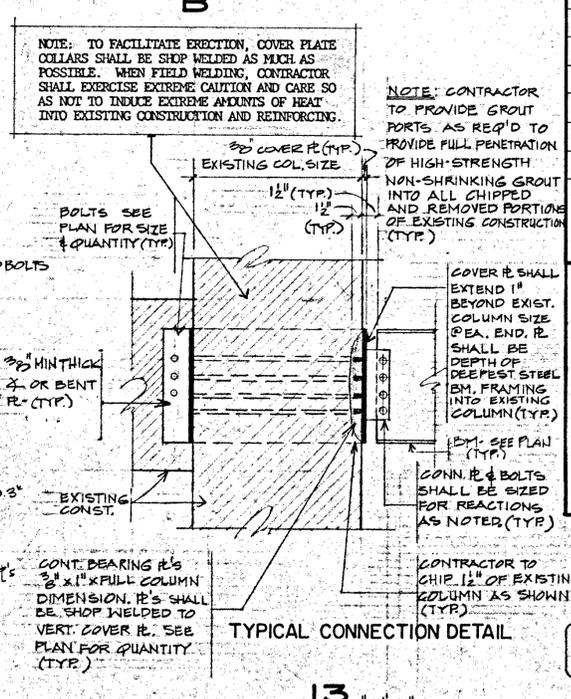
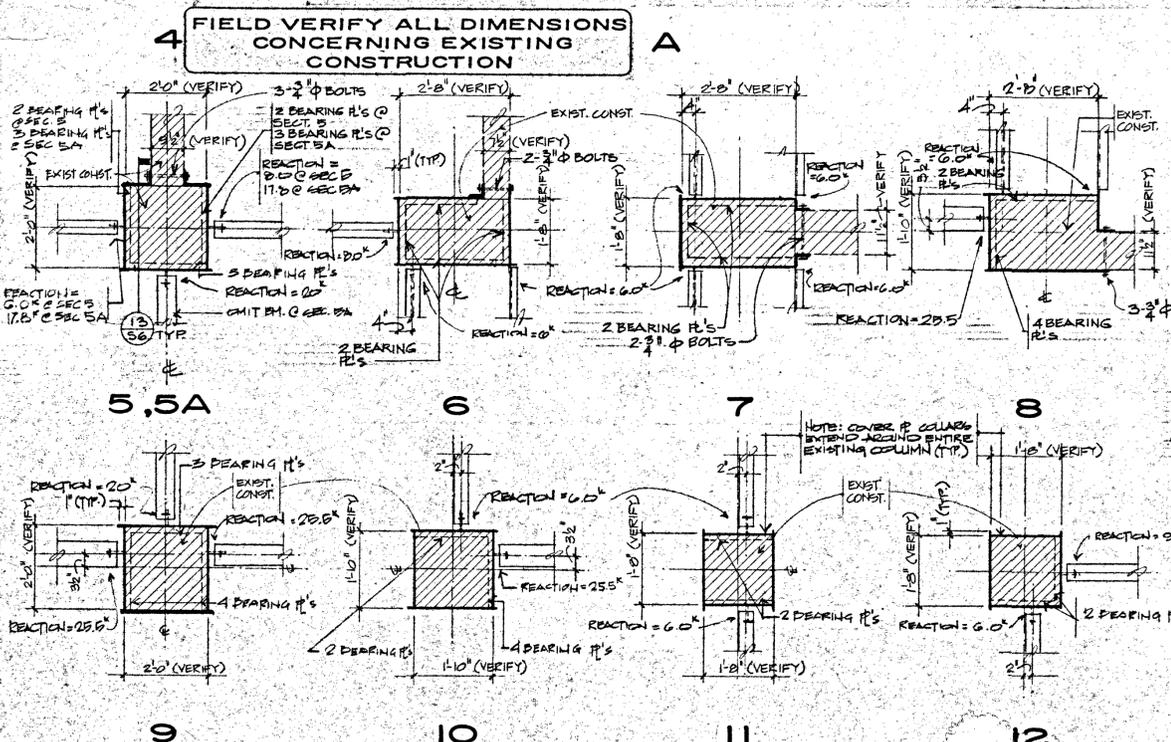
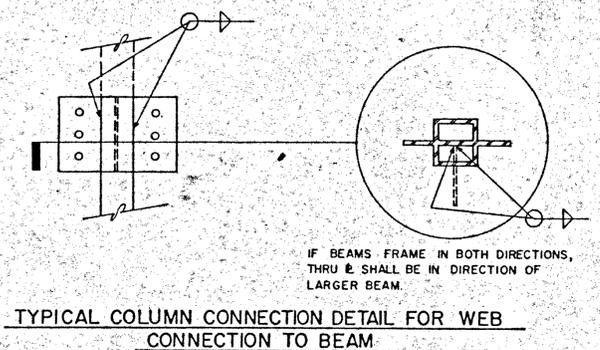
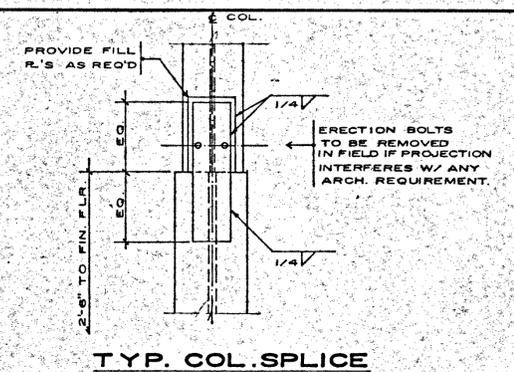
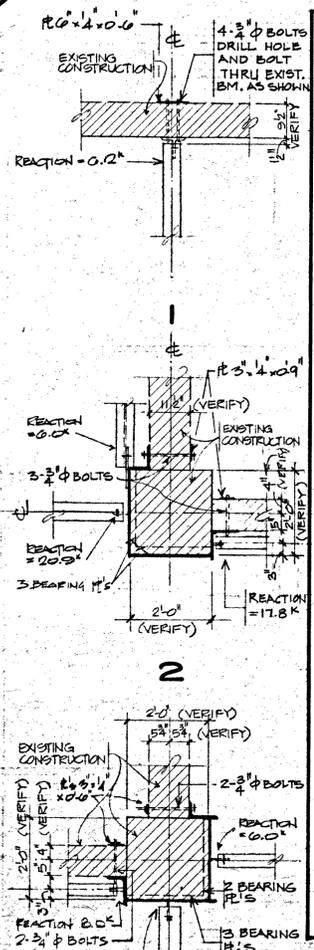
Quality Control

- a. Shear connectors: The first two stud connectors welded on each member, after being allowed to cool, shall be bent to an angle of 30 deg from their original axes by striking the studs with a hammer. If failure occurs in the weld zone of either stud, the procedure shall be corrected and two more studs shall be welded to the member and tested. If either of the second two studs fail, additional welding shall be continued on separate plates until two consecutive studs are tested and found to be satisfactory. Two consecutive studs shall then be welded to the member, tested, and found to be satisfactory before any more production studs are welded to the member.

- b. Studs on which a full 360° flash is not obtained may, at the option of the stud welding contractor, be repaired by adding 5/16" minimum fillet weld in place of the missing flash. The shielded metal arc process with low-hydrogen electrodes, 5/32" or 3/16" in diameter, shall be used in accordance with the requirements of these notes. The repair weld shall extend at least 3/8" beyond each end of the discontinuity being repaired.

Inspection Requirements

- a. If a visual inspection reveals any stud shear connector that does not show a full 360 deg. flash, any stud that has been repaired by welding, or any stud in which the reduction in length due to welding is less than normal shall be struck with a hammer and bent to an angle of 15 deg. from its original axis. For studs showing less than a 360 deg. weld fillet, the direction of bending shall be opposite to the missing weld fillet. Studs that crack in the weld, the base metal, or the shank under inspection or subsequent straightening shall be replaced. Nonfusion on the vertical leg of the flash and small shrink fissures are acceptable.
- b. The Engineer's Inspector, where conditions warrant, may select a reasonable number of additional studs to be subjected to the tests specified in section "a" of Inspection Requirements and section "a" of Quality Control.
- c. The bent stud shear connectors that show no sign of failure shall be acceptable for use and left in the bent position if no portion of the stud is less than 1" from a proposed concrete surface. All required bending and straightening shall be done, without heating, before completion of the stud welding operation on the job, except as otherwise provided in the contract.
- d. If, in the judgment of the Engineer, studs welded during the progress of the work are not in accordance with code provisions, as indicated by inspection and testing, corrective action shall be required of the contractor. At his own expense, the contractor shall make the changes (such as welding procedure, welding equipment, and stud base) necessary to ensure that studs subsequently welded will meet code requirements.



BEAM SCHEDULE

MARK	CONCRETE		REINFORCEMENT					STIRRUPS			
	W	D	NO	SIZE	LENGTH	PLACEMENT	NO	SIZE	TYP	SPACING EACH END	
B1	16"	18"	2	#6	17'-0"	T	6	#3	S-1	4/208	
B2	16"	18"	3	#7	33'-0"	T	20	#3	S-1	5/9@10	
B3	16"	18"	3	#7	29'-0"	T	20	#3	S-1	5/9@10	
B4	12"	24"	2	#6	17'-0"	T	6	#3	S-1	5/2@10	
B5	12"	24"	2	#6	21'-0"	B	22	#3	S-1	5/10@10	
B6	12"	24"	2	#7	28'-9"	T	22	#3	S-1	5/10@10	
B7	12"	24"	2	#7	27'-6"	T	20	#3	S-1	5/9@10	
B8	24"	24"	2	#9	27'-6"	T	18	#3	S-1	5/7@10/16	
B9	12"	24"	4	#6	21'-6"	B	7	#3	S-1	3/6@ (cont.)	
B10	12"	18"	2	#6	27'-6"	T	20	#3	S-1	5/10@10	
B11	12"	22"	2	#6	10'-9"	T	10	#3	S-1	4/1@8	
B12	18"	24"	3	#8	25'-0"	T	20	#3	S-1	5/9@10	
B13	18"	24"	3	#6	15'-3"	T	6	#3	S-1	5/3@10 (cont.)	
B14	18"	24"	3	#6	9'-6"	B	10	#3	S-1	5/9@10	
B15	18"	24"	3	#7	17'-6"	T	16	#3	S-1	5/7@10	
B16	12"	24"	2	#6	19'-3"	T	12	#3	S-1	5/9@10	
B17	12"	24"	2	#6	18'-6"	B	5	#3	S-1	5/4@10 (cont.)	
			2	#6	18'-6"	B	14	#3	S-1	5/9@10	

BEAM SCHEDULE NOTES

1. Stirrup types: S-1
2. Stirrups shall be spaced from face of support.
3. Beams or joists marked on plan with suffix "R" shall have same reinforcing as beam or joist with same identifying mark but shall have bar placement reversed.
4. Hooks shall be placed in discontinuous and cantilevered ends.
5. All scheduled bar lengths include hooks.
6. Provide #4 @ 12" o.c. horizontally (each face) for all beams 30" or greater in depth.

SCALE AT SECTIONS: 1/2" = 1'-0" UNLESS NOTED OTHERWISE.



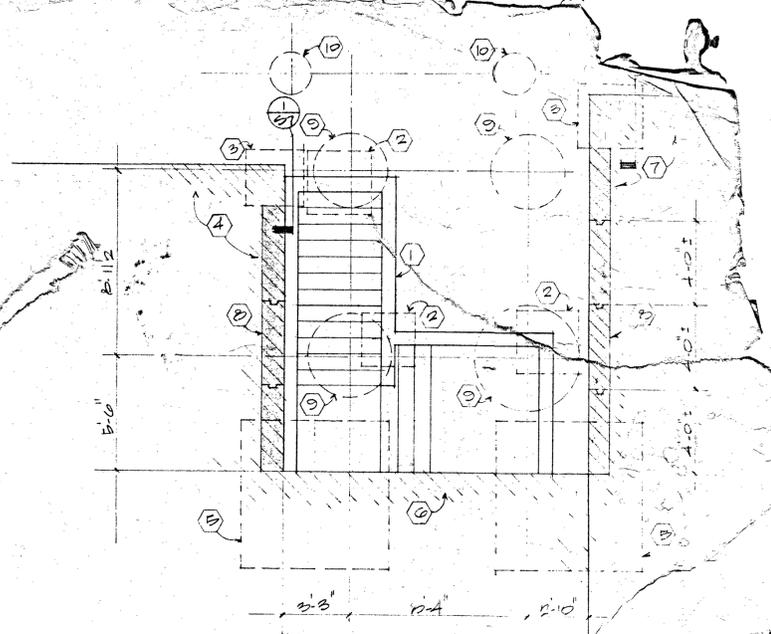
RENOVATION BUILDING WEST TEXAS UTILITIES COMPANY MAIN WEST TEXAS ABILENE TEXAS
 ARCHITECT & ENGINEERS
 STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 MACK STOELTJE
 20469

Stair Demolition Plan Notes:

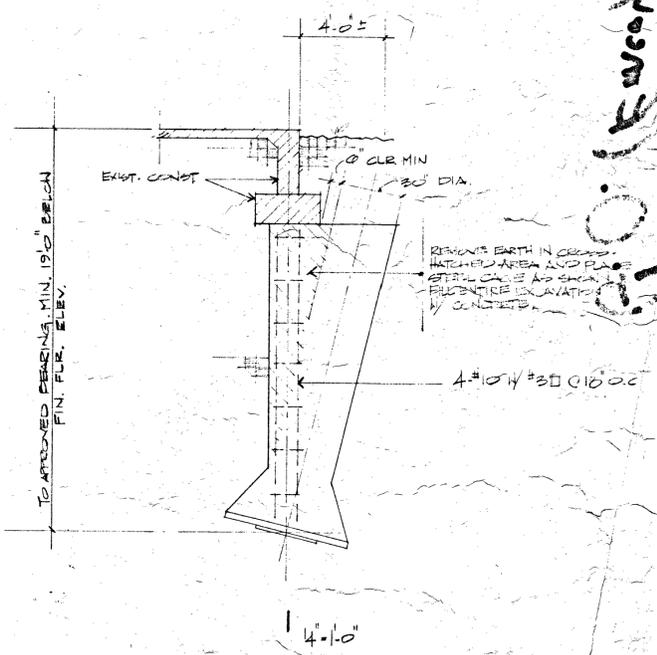
1. Existing areaway stair
2. Existing areaway stair spread footing
3. Existing spread footing
4. Existing toilet area construction
5. Existing spread footing
6. Existing construction
7. Existing Bootery building construction
8. New underpinning wall
9. New stair pier
10. New areaway stair pier

Recommended Stair Demolition Plan Construction Sequence

1. Drill and pour underpinning piers at northwest corner of existing toilet area construction and at northeast corner of existing Bootery building construction.
2. Remove existing areaway stair and existing areaway stair spread footings.
3. Drill and pour new stair piers. Pier depth shall be minimum 32'-0" below existing 1st floor elevation.
4. Drill and pour new areaway stair piers. Pier depth shall be approximately 19'-0" below existing 1st floor elevation.
5. Excavate and pour underpinning walls in 4'-0"+ wide sections beginning at south end and proceeding northward. Contractor shall shore between underpinning walls as required. Contractor shall be responsible for proper shoring of all open excavations.
6. See sheets S4 and S5 for plans and details or remainder of new stair construction.



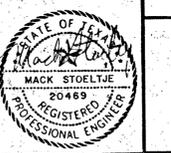
STAIR DEMOLITION PLAN



59.0 (EWSH 207)

WEST TEXAS UTILITIES COMPANY
 RENOVATION COMPANY
 TEXAS
 MAIN BUILDING
 A P L L C

STOELTJE ASSOCIATES, INC.
 CONSULTING ENGINEERS
 401 West 29th Street
 Austin, Texas 78705
 Area Code (512) 477-3633



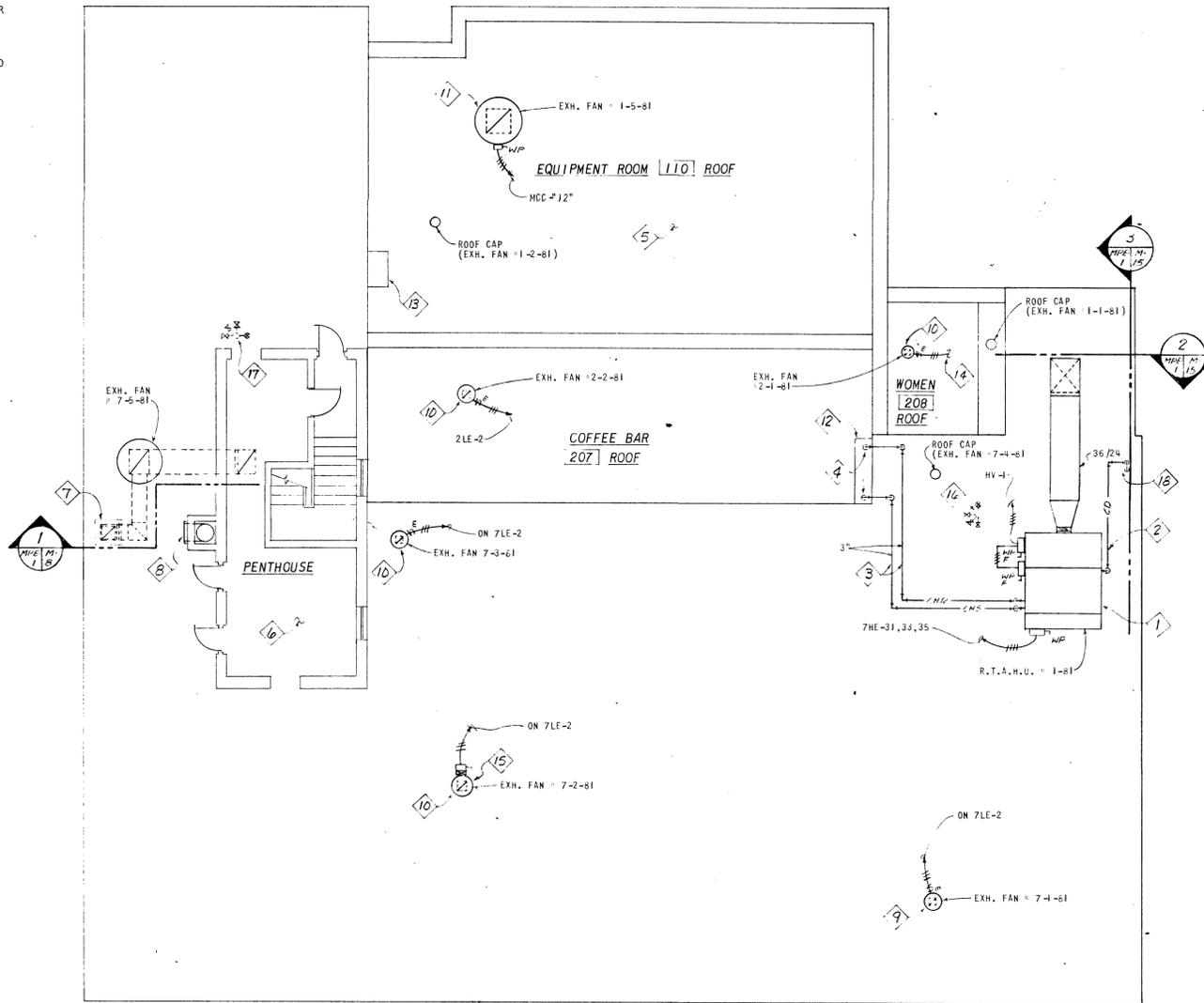
GENERAL NOTES:

- THE OWNER SHALL OCCUPY PORTIONS OF THE BUILDING THROUGHOUT THE CONSTRUCTION. THE CONTRACTOR SHALL BE ALLOWED ACCESS ONLY TO THOSE AREAS OR FLOORS IN WHICH THE CONSTRUCTION IS BEING ACCOMPLISHED. IT IS ANTICIPATED THAT THE RENOVATION WORK WITHIN THE EXISTING BUILDING SHALL BE ACCOMPLISHED TWO FLOORS AT A TIME BEGINNING ON THE UPPER MOST TWO FLOORS AND PROGRESSING DOWNWARD IN TWO FLOOR INTERVALS.
- DUE TO THE FACT THAT THE BUILDING WILL BE OCCUPIED AT ALL TIMES, THE SUBCONTRACTORS SHALL MAINTAIN BUILDING SYSTEMS TO OCCUPIED AREAS OPERATIONAL THROUGHOUT THE COURSE OF CONSTRUCTION. ANY TEMPORARY WORK AND MATERIALS REQUIRED TO KEEP THE SYSTEM(S) OPERATIONAL SHALL BE FURNISHED BY THE SUBCONTRACTOR(S) WHOSE TRADE(S) IS INVOLVED, ALL AT NO ADDITIONAL COST TO THE OWNER.
- THE MAJORITY OF THE NEW WORK SHALL OCCUR WITHIN THE EXISTING BUILDING. THE CONTRACTORS SHALL EXAMINE THE EXISTING FACILITIES IN ORDER TO FULLY ASCERTAIN THE SCOPE OF THEIR WORK UNDER THIS CONTRACT.
- ALL DUCTWORK, PIPING, CONDUITS, ETC., SHALL BE INSTALLED AS HIGH IN CEILING SPACES AS PHYSICALLY POSSIBLE (AND NOT NECESSARILY AS CONVENIENT). SUBCONTRACTORS ARE ADVISED OF NUMEROUS EXISTING CONCRETE STRUCTURAL BEAMS IN THE BUILDING'S CEILING SPACES. ALL CONDUITS, CHS, CHR, AND COLD WATER PIPING SHALL BE OFFSET IMMEDIATELY DOWN AND UP AT BEAMS SO THAT SAME SHALL BE HELD TIGHT AGAINST BOTTOM OF FLOOR STRUCTURE ABOVE AND NO CONDUIT OR PIPE SHALL BE LOWER THAN THE BOTTOM OF THE BEAMS EXCEPT WHERE THE CONDUIT OR PIPE PASSES IMMEDIATELY UNDER A BEAM.
- ANY EXISTING CONSTRUCTION OR WORK REQUIRED TO BE RELOCATED FOR THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY MECHANICS SKILLED IN THE TRADES INVOLVED BY THE COST OF THE RELOCATION SHALL BE PAID FOR BY THE SUBCONTRACTOR WHOSE WORK REQUIRES THE RELOCATION AND ALL AT NO ADDITIONAL COST TO THE OWNER.
- ALL PIPES, CONDUITS, DUCTS, ETC., PASSING THROUGH WALLS OR CEILINGS SHALL BE SPACED SO AS TO PERMIT THE PROPER INSTALLATION OF ESCUTCHEON PLATES AND CHROME PLATED ESCUTCHEON PLATES SHALL BE PROVIDED.
- ALL EXISTING MECHANICAL AND ELECTRICAL CONSTRUCTION IN EXISTING CONSTRUCTION TO BE DEMOLISHED BY THE GENERAL CONTRACTOR SHALL BE REMOVED BY MECHANICAL AND/OR ELECTRICAL SUBCONTRACTORS WHOSE TRADE HAS JURISDICTION OVER SUCH WORK, ALL AT NO EXTRA COST TO THE OWNER.
- ALL EQUIPMENT, FIXTURES AND DEVICES LOCATED ON OR IN CEILINGS SHALL BE SYMMETRICAL WITH THE CEILING GRID SYSTEM.
- EACH MECHANICAL AND ELECTRICAL SUBCONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF HIS WORK.
- ALL EXPOSED PIPING, CONDUITS, DUCTWORK, ETC. SHALL BE RUN PARALLEL AND PERPENDICULAR TO THE LINES OF THE BUILDING.
- REFER SPECIFICATIONS FOR STANDARD DETAILS, RSD 50000 FOR STANDARD HEATING, VENTILATING AND AIR CONDITIONING SYMBOLS; RSD 60000 FOR STANDARD PLUMBING SYMBOLS; AND RSD 70000 FOR STANDARD ELECTRICAL SYMBOLS.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FLASHING AND COUNTERFLASHING FOR ALL HIS WORK PENETRATING THE ROOF, AND SAME SHALL BE MADE WATERPROOF.
- EACH CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE PADS FOR THE EQUIPMENT HE FURNISHES AS INDICATED BY STANDARD DETAIL OR MECHANICAL ROOM PLANS.
- THE SUBCONTRACTOR'S PARTICULAR ATTENTION IS CALLED TO THE REQUIREMENTS OF ARTICLE 37 OF THE "STANDARD CONDITIONS" PERTAINING TO SEALING AROUND PIPES, CONDUITS, DUCTWORK, ETC.
- REFER TO SHEET M-12 FOR GENERAL MECHANICAL NOTES AND FOR MECHANICAL DEMOLITION NOTES.
- REFER TO SHEET E-28 FOR GENERAL ELECTRICAL NOTES AND ELECTRICAL DEMOLITION NOTES.
- REFER TO SHEET P-15 FOR GENERAL PLUMBING NOTES.

NOTES INDICATED BY NUMBER IN () :

- EXISTING MOTOR GENERATOR FOR NORTH ELEVATOR.
- EXISTING MOTOR GENERATOR FOR SOUTH ELEVATOR.
- EXISTING CONTROLLERS FOR NORTH AND SOUTH ELEVATORS (PRESENTLY SERVED AT 240V., 3Ø).
- EXISTING 100A, 240V, 3Ø FUSED DISCONNECT SWITCH SERVING NORTH ELEVATOR. EXISTING FEEDER FROM BASEMENT PANELBOARD CONNECTS TO THIS DISCONNECT; CIRCUIT TO SOUTH ELEVATOR DISCONNECT IS "LUGGED-ON" TO SUPPLY TERMINALS OF NORTH DISCONNECT.
- EXISTING 100A, 240V, 3Ø FUSED DISCONNECT SWITCH SERVING SOUTH ELEVATOR; FED FROM SUPPLY SIDE LUGS OF NORTH DISCONNECT.
- NEW 480V ELEVATOR CIRCUIT TO PANELBOARD IN EQUIPMENT ROOM 110. REFER TO ELECTRICAL SINGLE LINE DIAGRAM, SHEET E-19.
- 60A, 480V, 3Ø FUSED DISCONNECT SWITCH TO SERVE NORTH ELEVATOR.
- 60A, 480V, 3Ø FUSED DISCONNECT SWITCH TO SERVE SOUTH ELEVATOR.
- 480V, 3Ø CIRCUIT "LUGGED-ON" TO SUPPLY TERMINALS OF NORTH DISCONNECT AND EXTENDED TO SOUTH DISCONNECT. REFER TO ELECTRICAL SINGLE LINE DIAGRAM, SHEET E-19.
- NEW 480 VOLT CIRCUIT FROM NEW 480 VOLT DISCONNECTS TO ELEVATOR CONTROLLERS, AS INDICATED, SERVICE VOLTAGE TO ELEVATORS IS TO BE CHANGED FROM 240V, 3Ø TO 480V, 3Ø. ELECTRICAL WORK REQUIRED WITHIN ELEVATOR CONTROLLERS IN CONJUNCTION WITH THIS VOLTAGE CHANGE IS TO BE DONE BY WESTINGHOUSE ELEVATOR CO. PERSONNEL AND CHARGES FOR WESTINGHOUSE'S WORK ARE TO BE PAID DIRECTLY BY W.T.U. CO. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INDICATED WIRING AND DEVICES INCLUDING CIRCUITS FROM THE DISCONNECTS TO THE CONTROLLERS AND THE REQUIRED POWER CONNECTIONS IN THE CONTROLLERS. ELECTRICAL CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH WESTINGHOUSE AND W.T.U. CO. IN ORDER TO EFFECT THE VOLTAGE CHANGE AT SUCH TIME AND ON SUCH SCHEDULE AS IS DESIGNATED.

- EXISTING WINDOW UNIT AIR CONDITIONER TO REMAIN.
- EXISTING CONTRACTOR TO FURNISH AND INSTALL 220V, 20A PLUG AND 220V, 20A SIMPLEX RECEPTACLE FOR EXISTING AIR CONDITIONER AS INDICATED.
- EXISTING 150A, 240V, 3Ø, 4W PANEL AND CONTACTOR SERVING INACTIVE BUILDING EXTERIOR LIGHTS. PANEL, CONTACTOR, AND FEEDER CIRCUIT FROM WEST BASEMENT TO REMAIN (REFER TO WEST BASEMENT ELECTRICAL PLAN - LIGHTING AND POWER) LOAD CENTER "LUGGED-ON" TO 150A PANEL AND SERVING WINDOW UNIT AIR CONDITIONER. LOAD CENTER TO BE REMOVED.
- EXISTING EXHAUST FAN IN PENTHOUSE WINDOW. FAN TO BE REPED FROM PANEL "PLW" AS INDICATED.
- ALL EXISTING LIGHT FIXTURES, RECEPTACLES, SWITCHES, AND RELATED WIRING AND DEVICES SHALL BE MAINTAINED IN THEIR EXISTING LOCATIONS AND REPED FROM PANEL "PLW" AS INDICATED ON PANEL SCHEDULE.
- EXHAUST FAN 7-5-81 TO BE INTERLOCKED WITH R.T.A.H.U. # 1-81; REFER MECHANICAL SPECIFICATIONS.



MECHANICAL AND ELECTRICAL ROOF PLAN

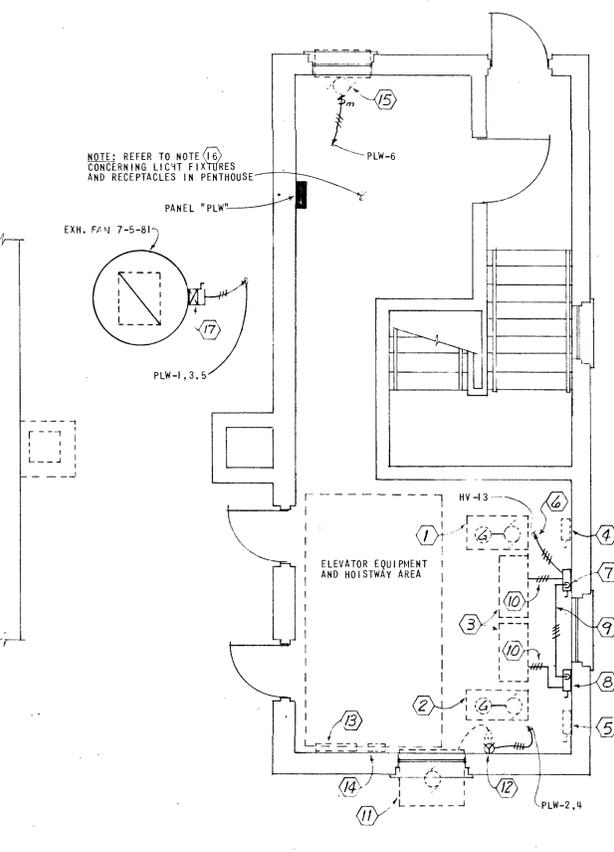
SCALE: 1/8"=1'-0"

NOTES AS INDICATED BY () :

- 100% OUTSIDE AIR ROOFTOP AIR HANDLING UNIT # 1-81. REFER TO SCHEDULE SHEET M-14.
- EXTEND DRAIN CONNECTION SIZE CONDENSATE DRAIN AND CONNECT TO 3" VERTICAL DRAIN IN CHASE IN STAIR; REFER NOTE 36, SHEET M-8.
- EXTEND 3" CHS AND CHR FROM CHASE TO R.T.A.H.U.
- 3" CHS AND CHR DOWN TO 6" CHS AND CHR AT 7TH FLOOR TAP. REFER SHEET M-8.
- REFER TO SHEET M-9 FOR EQUIPMENT AND WORK ON EQUIPMENT ROOM 110 ROOF.
- REFER TO "PENTHOUSE ELECTRICAL PLAN - LIGHTING AND POWER", THIS SHEET.
- EXISTING BOILER FLUE TO BE USED AS EXHAUST PLENUM FOR EXHAUST AIR FROM 2ND FLOOR. REFER TO SHEET M-3.

- EXISTING 19-1/2" Ø STEEL FLUE TO BE REMOVED FROM TOP OF MASONRY FLUE TO LOCATION ADJACENT TO STACK. REMAINING FLUE TO BE CAPPED AS INDICATED.
- FAN TO HAVE MOTORIZED DAMPER; REFER SCHEDULE. R.S.D. 51220.
- R.S.D. 51220.
- R.S.D. 51130.
- "EAST" PIPE AND CONDUIT CHASE.
- "WEST" PIPE AND CONDUIT CHASE.
- EXHAUST FAN # 2-1-81 ON CKT. 2LE-30 WITH WOMEN 208 LIGHTS; REFER SHEET E-5.
- EXHAUST FAN # 7-2-81 TO BE INTERLOCKED WITH R.T.A.H.U. # 1-81 SAME AS EXHAUST FAN # 7-5-81. FAN TO HAVE 3-SPEED MANUAL STARTER MOUNTED IN UNIT; REFER SCHEDULE, SHEET M-14.

- FIRE STANDPIPE ROOF MANIFOLD, RSD 60430. REFER TO SHEET P-8 FOR STANDPIPE CONTINUATION.
- FIRE STANDPIPE ROOF MANIFOLD (SAME AS NOTE 16). TERMINATE 3" VERTICAL CONDENSATE DRAIN WITH 180° SHORT RADIUS RETURN. COVER OPEN END OF RETURN WITH INSECT SCREEN.



PENTHOUSE ELECTRICAL PLAN - LIGHTING AND POWER

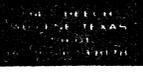
SCALE: 1/4"=1'-0"

SHEET NO.

- MPE-1
- M-2
- M-3
- M-4
- M-5
- M-6
- M-7
- M-8
- M-9
- M-10
- M-11
- M-12
- M-13
- M-14
- M-15
- P-2
- P-3
- P-4
- P-5
- P-6
- P-7
- P-8
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- P-10
- P-11
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- P-14
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- E-2
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FOURTH FLOOR AIR CONDITIONING PLAN
FIFTH FLOOR AIR CONDITIONING PLAN
SIXTH FLOOR AIR CONDITIONING PLAN
SEVENTH FLOOR AIR CONDITIONING PLAN
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ELECTRICAL SCHEDULES



WILLIAMS, TIPPETT & ASSOC., INC.
CONSULTING ENGINEERS
ABILENE, TEXAS

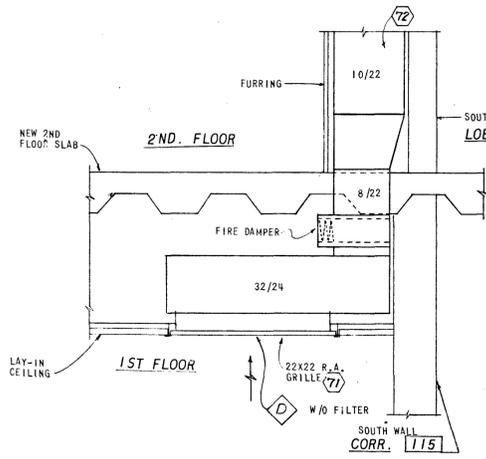
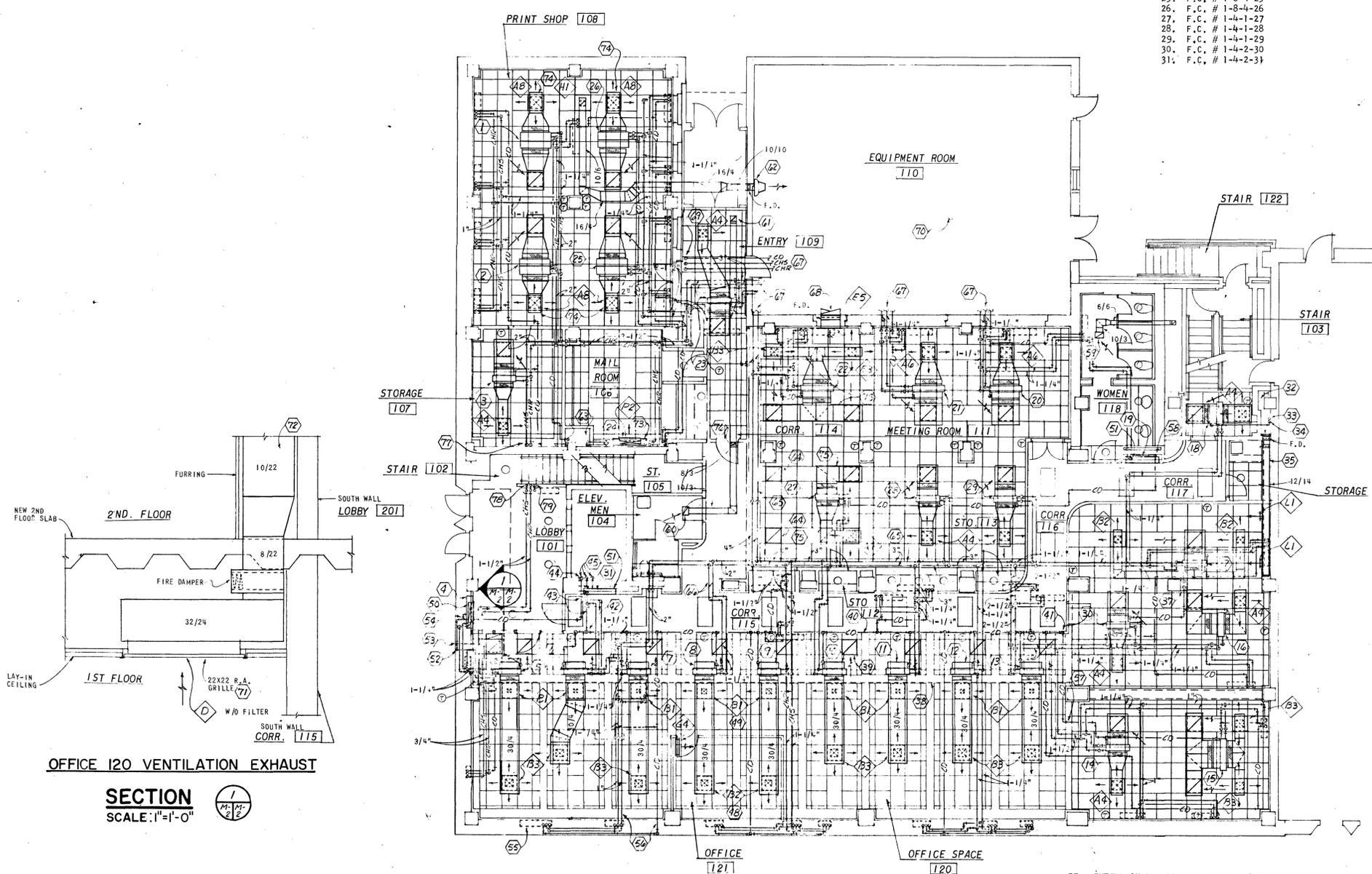
RENOVATION
BUILDING UTILITIES COMPANY
WEST TEXAS UTILITIES COMPANY
ABILENE, TEXAS

MPE-1

NOTES AS INDICATED BY NUMBER IN 

1. F.C. # 1-8-4-1
2. F.C. # 1-8-4-2
3. F.C. # 1-4-2-3
4. F.C. # 1-6-4-4
5. F.C. # 1-4-4-5
6. F.C. # 1-4-2-6
7. F.C. # 1-4-2-7
8. F.C. # 1-4-2-8
9. F.C. # 1-4-2-9
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15. F.C. # 1-6-4-15
16. F.C. # 1-4-2-16
17. F.C. # 1-4-2-17
18. F.C. # 1-4-4-18
19. F.C. # 1-4-2-19
20. F.C. # 1-6-4-20
21. F.C. # 1-6-4-21
22. F.C. # 1-6-4-22
23. F.C. # 1-4-4-23
24. F.C. # 1-4-2-24
25. F.C. # 1-8-4-25
26. F.C. # 1-8-4-26
27. F.C. # 1-4-1-27
28. F.C. # 1-4-1-28
29. F.C. # 1-4-1-29
30. F.C. # 1-4-2-30
31. F.C. # 1-4-2-31

32. CONDITIONED OUTSIDE AIR SUPPLY CHASE FROM R.T. A.H.U. # 1-81.
33. 3" VERTICAL CONDENSATE DRAIN FROM ABOVE. DRAIN TO BE CONTINUED DOWNWARD, THRU FIRST FLOOR, INTO EAST BASEMENT AND EXTENDED TO EXISTING FLOOR DRAIN IN EAST BASEMENT.
34. CONDENSATE LINE FOR FAN COIL UNIT TO CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
35. FIRST FLOOR CONDITIONED OUTSIDE AIR SUPPLY DUCT. DUCT TO BE HELD AS HIGH AS POSSIBLE AGAINST BEAM ABOVE. DUCT TO BE FURRED IN BY GENERAL CONTRACTOR. REFER TO NOTE, ARCHITECTURAL SHEET A-15.
36. DELETED.
37. CONDENSATE DRAIN FROM FIRST FLOOR FAN COIL UNITS TO BE CONNECTED TO VERTICAL LINE FROM SECOND FLOOR FAN COIL UNITS BY MEANS OF A LATERAL FITTING INSTALLED IN THE VERTICAL LINE A MINIMUM OF 1'-0" BELOW CEILING LINE. DRAIN TO BE CONTINUED DOWNWARD, THRU FIRST FLOOR, INTO EAST BASEMENT AND EXTENDED TO EXISTING FLOOR DRAIN IN EAST BASEMENT.
38. INDICATED FURRING LINE TO PROVIDE FURRED IN "PLENUM" BETWEEN BEAMS FOR F.C. UNITS # 1-4-4-5 THRU # 1-4-2-13. R.S.D. 50238. GENERAL CONTRACTOR TO PROVIDE FURRING AND TO SEAL ALL OPENINGS BETWEEN BEAMS AND FLOOR ABOVE. MECHANICAL CONTRACTOR SHALL FULLY SEAL PIPE, DUCT, ETC. PENETRATIONS INTO PLENUM AREAS.
39. 22"X22" R.A. FILTER FRAME GRILLE (TYPICAL FOR F.C. UNITS # 1-4-4-5 THRU # 1-4-2-13) R.S.D. 50238.
40. 3" CONDENSATE DRAIN LINE TO BE INSTALLED LATERALLY IN CORRIDOR 115 WALL. LINE SHALL BE AT AN ELEVATION OF 6'-0" ABOVE FLOOR AT POINT OF FIRST CONNECTION (REFER NOTE 41) AND SHALL SLOPE AT A UNIFORM RATE TO A POINT 1'-0" ABOVE FLOOR, AT WHICH POINT THE LINE SHALL TURN DOWN VERTICALLY AND EXIT THE WALL, INTO THE FLOOR (REFER NOTE 42).
41. FIRST (HIGHEST) POINT OF CONNECTION TO CONDENSATE DRAIN LINE IN WALL. LINE TO BE AT ELEVATION OF 6'-0" ABOVE FLOOR AT POINT OF CONNECTION.
42. POINT AT WHICH CONDENSATE DRAIN LINE EXITS WALL INTO FLOOR. LINE SHALL HAVE SLOPED TO AN ELEVATION OF 1'-0" ABOVE FLOOR; AT THIS POINT LINE SHALL TURN DOWN VERTICALLY AND EXIT WALL SPACE, INTO FLOOR.
43. BREAK OUT CONCRETE FLOOR AND EXTEND CONDENSATE DRAIN TO ELEVATOR SHAFT AS INDICATED.
44. 2-1/2" CONDENSATE DRAIN FROM ABOVE. REFER TO SHEET M-4.
45. EXTEND CONDENSATE DRAINS TO SUMP BEHIND EXISTING BOILER IN BASEMENT.
46. DELETED.
47. DELETED.
48. DIFFUSERS TO BE SET FOR 250 CFM.
49. DIFFUSERS TO BE SET FOR 150 CFM.
50. CONTRACTOR TO VERIFY ADEQUATE CLEAR SPACE IS AVAILABLE BEHIND EXISTING WALL FOR VERTICAL RECESSED F.C. UNIT # 1-4-4-4. PRIOR TO ORDERING SAME. IF ADEQUATE SPACE IS NOT AVAILABLE, ARCHITECT IS TO BE SO ADVISED IMMEDIATELY. IF ADEQUATE SPACE IS AVAILABLE, UNIT IS TO BE INSTALLED SO THAT INTEGRAL OUTLET GRILLE IN FRONT PANEL IS POSITIONED APPROXIMATELY 7' ABOVE FLOOR; EXACT ELEVATION TO BE CONFIRMED BY ARCHITECT PRIOR TO INSTALLATION.
51. VERTICAL RECESSED F.C. UNIT TO BE INSTALLED SO THAT INTEGRAL OUTLET GRILLE IN FRONT PANEL IS POSITIONED APPROXIMATELY 7' ABOVE FLOOR; EXACT ELEVATION TO BE CONFIRMED BY ARCHITECT PRIOR TO INSTALLATION.
52. TURN CONDENSATE DRAIN DOWN IN WALL SPACE.
53. CONNECT CONDENSATE DRAIN FROM FIRST FLOOR F.C. UNIT TO CONDENSATE DRAIN FROM 2ND FLOOR UNITS. LINES TO BE POSITIONED SO THAT CONNECTION IS MADE A MINIMUM OF 1'-0" BELOW CEILING LEVEL.
54. CONNECT CONDENSATE DRAIN FROM F.C. UNIT TO COLLECTOR LINE AT OR NEAR FLOOR LEVEL. COLLECTOR TO TURN DOWN INTO FLOOR IN WALL SPACE; REFER NOTE 43.
55. FAN COIL UNIT LOCATED ON 2ND FLOOR. TYPICAL (DASHED LINES INDICATE 2ND FLOOR UNITS). REFER TO SHEET M-3 FOR 2ND FLOOR FAN COIL DESIGNATIONS. 2ND FLOOR UNITS TO BE SERVED FROM CHS & CHR LINES IN 1ST FLOOR CEILING SPACE.
56. CHS, CHR AND CONDENSATE DRAIN LINES DOWN FROM 2ND FLOOR WALL SPACE AND INTO 1ST FLOOR CEILING SPACE (TYPICAL) LINES TO EXIT WALL SPACE INTO CEILING SPACE THRU PRE-CUT OPENINGS PROVIDED IN BEAMS. REFER TO STRUCTURAL SHEET S2 FOR OPENING LOCATIONS AND SIZES; REFER TO SECTION 4, SHEET A-13 FOR SECTION AT OUTSIDE WALL.
57. CONDENSATE LINE TO BE RUN THRU PRE-CUT 4" HOLE CENTERED IN BEAM. REFER TO SHEET S2.
58. CONDENSATE DRAIN TO TURN DOWN IN CHASE AND EXTEND TO EXISTING FLOOR DRAIN IN EAST BASEMENT. CONDENSATE DRAIN FROM F.C. # 1-4-2-19 TO CONNECT TO VERTICAL DRAIN BY LATERAL CONNECTION A MINIMUM OF 1'-0" BELOW BOTTOM OF F.C. UNIT.
59. EXHAUST FAN # 1-1-81. EXTEND DUCT FROM FAN TO DISCHARGE JACK ON ROOF.
60. EXHAUST FAN # 1-2-81. EXTEND DUCT FROM FAN TO DISCHARGE JACK ON ROOF.
61. TO DISCHARGE JACK ON ROOF FOR EXHAUST FAN # 1-2-81.
62. EXHAUST FAN # 1-4-81.
63. EXTEND CONDENSATE DRAIN LINES TO NEAREST FLOOR DRAIN IN BASEMENT. DRAIN FOR 1ST FLOOR FAN COIL UNITS SHALL CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN FOR THE 2ND FLOOR UNITS AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
64. INSTALL PERFORATED (GRILLE) FACE PIPE IN FRAME 23 TO BALANCE GRILLE FACE PATTERN. FACE PLATE TO BE SAME AS FOR SPECIFIED PERFORATED FACE SUPPLY GRILLES. CUT SUSPENDED CEILING TILE TO FIT INSIDE FACE PLATE AND SEAL AT EDGES; TILE TO SERVE AS SEAL BETWEEN ROOM AND CEILING SPACE.
65. CHS, CHR, FIRE SPRINKLER LINES, AND ELECTRICAL CONDUITS TO BE INSTALLED IN INDICATED SPACE FURRED DOWN FROM CEILING. REFER ARCHITECTURAL DRAWINGS.
66. CHS AND CHR LINES TO BE ROUTED THRU PRE-CUT OPENINGS IN BEAMS BETWEEN COLUMNS (TYPICAL). REFER TO SHEET S2 FOR SIZE AND LOCATION OF OPENINGS.
67. REFER TO SHEET M-9 FOR CONTINUATION.
68. EXHAUST DUCT FROM MEETING ROOM 111 TO EXHAUST FAN # 1-3-81 IN EQUIPMENT ROOM. REFER TO SHEET M-9 FOR CONTINUATION. DUCT TO EXIT THRU EXISTING WINDOW OPENING; DUCT AND GRILLE TO BE MOUNTED AS HIGH AS POSSIBLE.
69. 2-1/2" C.D., 4" CHS, 4" CHR TO EXTEND UP IN EXTERIOR CHASE TO THIRD SEVENTH FLOOR. REFER TO SHEET M-3 FOR CONTINUATION.
70. REFER TO SHEET M-9 FOR EQUIPMENT MECHANICAL PLAN.
71. VENTILATION EXHAUST GRILLE FOR OFFICE SPACE 120.
72. EXHAUST DUCT TO EXTEND THRU SECOND FLOOR IN FURRING TO SECOND FLOOR CEILING SPACE; REFER SHEET M-3.
73. F.C. # 1-4-2-24 TO BE VERTICAL RECESSED UNIT WITH STANDARD DUCT CONNECTION IN TOP OF UNIT. UNIT TO BE MOUNTED SO THAT BOTTOM OF R.A. GRILLE IN WALL PANEL IS 6" ABOVE FLOOR. SUPPLY DUCT TO BE EXTENDED UPWARD FULL SIZE IN WALL SPACE TO POINT BELOW CEILING. DUCT TO TRANSITION AND TURN AS REQUIRED FOR CONNECTION TO INDICATED 30X4 GRILLE.
74. CEILING SPACE IN PRINT SHOP TO BE 15". BOTH THE SUPPLY AND RETURN DUCTS FOR UNIT TO BE 24/6. BOTH FAN COIL UNIT AND DUCTS TO BE HELD AS HIGH AS POSSIBLE TO AVOID CONFLICT WITH LIGHT FIXTURES. CONTRACTOR TO VERIFY CLEARANCES PRIOR TO INSTALLATION AND ADJUST POSITIONING OF UNITS AS REQUIRED.
75. DUCT TO BE HELD AS HIGH AS POSSIBLE TO AVOID CONFLICT WITH LIGHT FIXTURES; VERIFY CLEARANCE PRIOR TO INSTALLATION OF FAN COIL UNIT AND DUCT.
76. EXHAUST DUCT TO TURN UP AFTER PASSING UNDER BEAM.



SECTION 1
OFFICE 120 VENTILATION EXHAUST
SCALE: 1/8"=1'-0"

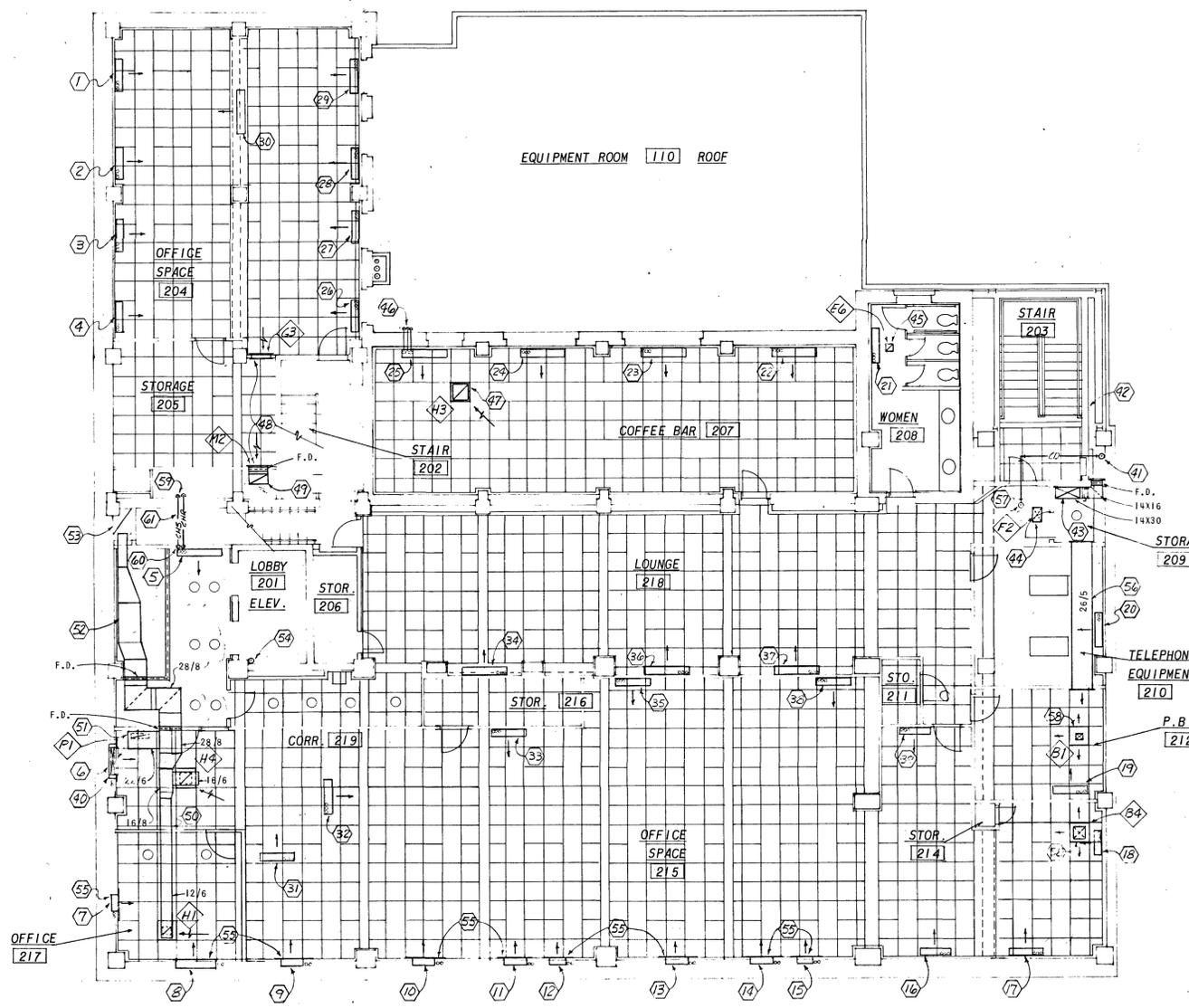
FIRST FLOOR AIR CONDITIONING PLAN
SCALE: 1/8"=1'-0"

- NOTES:
1. REFER TO 'MECHANICAL NOTES-GENERAL' SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
 2. REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
 3. REFER SHEET M-12 FOR 'AIR OUTLET AND GRILLE SCHEDULE' AND 'AIR OUTLET AND GRILLE SIZE/CFM INDEX.'

WILLIAMS, TIPPETT & ASSOC., INC.
 CONSULTING ENGINEERS
 ABILENE, TEXAS
 RENOVATION
 BUILDING
 WEST TEXAS UTILITIES COMPANY
 ABILENE, TEXAS
 M-2

NOTES INDICATED BY NUMBER IN 

1. F.C. # 2-3-2-1
2. F.C. # 2-3-2-2
3. F.C. # 2-3-2-3
4. F.C. # 2-3-2-4
5. F.C. # 2-6-4-5
6. F.C. # 2-6-4-6
7. F.C. # 2-2-2-7
8. F.C. # 2-4-2-8
9. F.C. # 2-3-2-9
10. F.C. # 2-3-2-10
11. F.C. # 2-3-2-11
12. F.C. # 2-2-1-12
13. F.C. # 2-3-2-13
14. F.C. # 2-3-2-14
15. F.C. # 2-2-1-15
16. F.C. # 2-3-2-16
17. F.C. # 2-4-2-17
18. F.C. # 2-2-1-18
19. F.C. # 2-4-2-19
20. F.C. # 2-4-2-20
21. F.C. # 2-4-2-21
22. F.C. # 2-6-2-22
23. F.C. # 2-6-2-23
24. F.C. # 2-6-2-24
25. F.C. # 2-6-2-25
26. F.C. # 2-3-2-26
27. F.C. # 2-3-2-27
28. F.C. # 2-3-2-28
29. F.C. # 2-4-2-29
30. F.C. # 2-6-2-30
31. F.C. # 2-4-1-31
32. F.C. # 2-4-1-32
33. F.C. # 2-4-1-33
34. F.C. # 2-6-2-34
35. F.C. # 2-4-2-35
36. F.C. # 2-6-2-36
37. F.C. # 2-6-2-37
38. F.C. # 2-4-2-38
39. F.C. # 2-3-1-39
40. F.C. # 2-6-4-6 TO BE VERTICAL RECESSED UNIT. UNIT TO BE MOUNTED SO THAT BOTTOM OF INTEGRAL R.A. GRILLE IN WALL PANEL IS 6" ABOVE FLOOR. SUPPLY DUCT TO BE EXTENDED UPWARD FULL SIZE IN WALL SPACE FROM UNIT TO POINT IMMEDIATELY BELOW BEAM. DUCT TO TRANSITION AND TURN AS REQUIRED FOR CONNECTION TO INDICATED 34"x6" SIDEWALL SUPPLY GRILLE.
41. 3" CONDENSATE DRAIN FROM ABOVE.
42. VENTILATION AIR SUPPLY CHASE FROM R.T.A.H.U. # 1-81.
43. DUCT TO EXIT VENTILATION CHASE IMMEDIATELY BELOW CEILING LEVEL OF STORAGE 209. DUCT TO BE HELD TIGHT AGAINST CEILING AND TURN UP INTO CEILING SPACE AS INDICATED. DUCT TO BE FURRED IN PER ARCHITECT'S DIRECTIONS. CEILING SPACE OF ROOMS 209,212 AND SOUTHEAST BAY OF 215 TO BE USED AS VENTILATION AIR PLENUM (SPACE BETWEEN EAST WALL AND BEAMS ON FIRST COLUMN LINE TO THE WEST).
44. VENTILATION SUPPLY AIR GRILLE FROM CEILING SPACE. 500 CFM.
45. EXTEND 10"x10" EXHAUST DUCT FROM GRILLE TO EXHAUST FAN # 2-1-81 ON ROOF. COORDINATE ROOF PENETRATION WITH ROOF STRUCTURE; PROVIDE TRANSITIONS AND/OR OFFSETS AS REQUIRED TO MAKE DUCT CONNECTIONS.
46. REFER TO SHEET M-2 FOR CONTINUATION.
47. EXTEND 20"x20" EXHAUST DUCT FROM GRILLE TO EXHAUST FAN #2-2-81 ON ROOF. COORDINATE ROOF PENETRATION WITH ROOF STRUCTURE; PROVIDE TRANSITIONS AND/OR OFFSETS AS REQUIRED TO MAKE DUCT CONNECTIONS.
48. MOUNT GRILLE IMMEDIATELY BELOW CEILING.
49. EXTEND EXHAUST AIR DUCT IN CHASE UPWARD INTO THIRD FLOOR AREA; OFFSET AND TRANSITION DUCT AS REQUIRED TO CONNECT TO EXHAUST DUCT IN CHASE ON THIRD FLOOR. REFER TO SHEET M-4 FOR DUCT CONTINUATION.
50. EXHAUST AIR DUCT.
51. X22 FURRED IN EXHAUST AIR DUCT UP FROM FIRST FLOOR. REFER TO SHEET M-2.
52. EXHAUST AIR DUCT TO EXTEND THRU SECOND FLOOR CEILING SPACE AS INDICATED. CLEAR SPACE IN THIS AREA IS APPROXIMATELY 8" AND WILL CONTAIN DOMESTIC WATER AND SOIL LINES (REFER THIRD FLOOR PLUMBING PLAN). MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF EQUIPMENT IN THIS SPACE WITH PLUMBING CONTRACTOR IN ORDER TO INSTALL LARGEST DUCT POSSIBLE THRU SPACE.
53. EXISTING BOILER FLUE (EXTENDS FROM BASEMENT TO 7TH FLOOR CEILING SPACE). FLUE TO BE USED AS EXHAUST PLENUM UPON DE-ACTIVATION OF GAS FIRED BOILER. CONTRACTOR TO PENETRATE FLUE AND EXTEND EXHAUST AIR DUCT INTO FLUE AS INDICATED. THIS WORK NOT TO BE DONE PRIOR TO DE-ACTIVATION OF BOILER. REFER TO SHEET M-8 FOR FLUE AND EXHAUST AIR RELATED WORK AT 7TH FLOOR AND ROOF.
54. 2-1/2" CONDENSATE DRAIN FROM ABOVE.
55. VERTICAL RECESSED FAN COIL UNIT WITH INTEGRAL SUPPLY OUTLET AND RETURN GRILLE IN FRONT PANEL. UNIT TO BE MOUNTED AS HIGH AS POSSIBLE IN WALL SPACE SO THAT UNIT IS IMMEDIATELY BELOW BEAM. REFER TO ARCHITECTURAL DRAWING A-13 FOR WALL SECTION.
56. 26/5 TRANSFER DUCT TO EXTEND FROM CEILING SPACE OF STORAGE 209 TO CEILING SPACE OF P.B.X. 212. DUCT TO BE RUN EXPOSED ACROSS CEILING OF TELEPHONE EQUIPMENT 210 AND HELD TIGHT AGAINST CEILING. CO-ORDINATE WITH ELECTRICAL CONTRACTOR'S WORK IN TELEPHONE EQUIPMENT 210.
57. CONDENSATE DRAIN FROM MACHINE ROOM AIR CONDITIONING UNIT; REFER TO SHEET M-4
58. VENTILATION SUPPLY AIR GRILLE FROM CEILING SPACE.
59. 2" CHS AND CHR UP FROM 1ST FLOOR CEILING SPACE. REFER TO SHEET M-1 FOR CONTINUATION. REFER TO SHEET P-14 FOR SPRINKLER PIPING IN THIS LOCATION.
60. 2" CHS AND CHR DOWN IN 2ND FLOOR PARTITION TO SERVE 2ND FLOOR FAN COIL UNIT AND ON TO 1ST FLOOR CEILING SPACE. REFER TO SHEET M-2 FOR CONTINUATION.
61. 2" CHS AND CHR IN CONCEALED SPACE ABOVE STAIR AT 2ND FLOOR LEVEL. REFER TO SHEET P-14 FOR SPRINKLER PIPING.



SECOND FLOOR AIR CONDITIONING PLAN
SCALE: 1/8"=1'-0"

- NOTES:
1. REFER TO "MECHANICAL NOTES-GENERAL" SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
 2. REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
 3. REFER SHEET M-12 FOR "AIR OUTLET AND GRILLE SCHEDULE" AND "AIR OUTLET AND GRILLE SIZE/CFM INDEX."



WEST TEXAS UTILITIES COMPANY

WILLIAMS, TIPPETT & ASSOC., INC.
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ABILENE TEXAS



RENOVATION BUILDING
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M-3

NOTES INDICATED BY NUMBER IN 

1. F.C. UNIT #3-10-6-1
2. F.C. UNIT #3-10-6-2
3. F.C. UNIT #3-4-4-3
4. F.C. UNIT #3-4-1-3
5. F.C. UNIT #3-10-6-5
6. F.C. UNIT #3-4-4-6
7. F.C. UNIT #3-4-1-7
8. F.C. UNIT #3-4-1-8
9. F.C. UNIT #3-4-4-9
10. F.C. UNIT #3-4-4-10
11. F.C. UNIT #3-4-1-11
12. F.C. UNIT #3-4-1-12
13. F.C. UNIT #3-4-4-13
14. F.C. UNIT #3-4-4-14
15. F.C. UNIT #3-4-1-15
16. F.C. UNIT #3-10-4-16
17. F.C. UNIT #3-10-4-17
18. F.C. UNIT #3-10-4-18
19. F.C. UNIT #3-10-4-19
20. F.C. UNIT #3-8-6-20
21. F.C. UNIT #3-4-4-21
22. F.C. UNIT #3-8-6-22
23. F.C. UNIT #3-8-6-23
24. F.C. UNIT #3-8-6-24
25. F.C. UNIT #3-6-4-25
26. F.C. UNIT #3-8-6-26
27. F.C. UNIT #3-10-6-27
28. CONDENSATE COLLECTOR LINE FROM 3RD FLOOR FAN COIL UNITS TO CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
29. 3RD FLOOR CONDITIONED OUTSIDE AIR SUPPLY DUCT.
30. 6" CHR TO CHILLERS.
31. 6" CHS FROM CHILLERS.
32. 4" CHS FROM CHILLERS.
33. 4" CHR TO CHILLERS.
34. 2-1/2" VERTICAL CONDENSATE DRAIN FROM ABOVE.
35. RECESSED CEILING MOUNTED ELECTRIC HEATER TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
36. VENTILATION EXHAUST DUCT. DUCT TO BE INSTALLED IN EXISTING DUCT CHASE. EXISTING DUCTS IN CHASE TO BE REMOVED IN CONJUNCTION WITH WORK OF THIS PROJECT. EXHAUST DUCT TO CONNECT TO DUCT FROM 2ND FLOOR AND EXTEND UP TO 4TH FLOOR. REFER TO SHEETS M-3 AND M-5.
37. FAN COIL UNIT # 3-4-4-3 TO BE ENCLOSED IN FURRED IN CEILING SPACE WITH RETURN AIR FILTER FRAME GRILLE UNDER UNIT. FURRING TO BE 1/2" GYP BOARD ON 3-5/8" STUDS. MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF FAN COIL UNIT AND FURRING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL SHEET A-17, CONTRACTOR TO REMOVE FAN COIL BOTTOM ACCESS PANEL SO THAT RETURN AIR MAY ENTER UNIT FROM BOTTOM. RSD 50238.
38. 3" VERTICAL CONDENSATE DRAIN FROM ABOVE TO TURN OUT INTO 3RD FLOOR CEILING SPACE AND EXTEND TO CHASE AND TURN AT NORTH WALL AS INDICATED.
39. CONDENSATE DRAIN TO PENETRATE WALL AND EXIT 3RD FLOOR BELOW WINDOW LEVEL. LINE TO EXTEND TO CHASE AND TURN DOWN AS INDICATED.
40. INSTALL PERFORATED (GRILLE) FACE PLATE IN FRAME 23 TO BALANCE GRILLE CEILING PATTERN. FACE PLATE TO BE SAME AS FOR SPECIFIED PERFORATED FACE SUPPLY GRILLES. CUT SUSPENDED CEILING TILE TO FIT INSIDE FACE PLATE AND SEAL AT EDGES; TILE TO SERVE AS SEAL BETWEEN ROOM AND CEILING SPACE.
41. EXISTING COMPUTER ROOM AIR CONDITIONING UNIT TO BE RELOCATED FROM PRESENT LOCATION IN EXISTING MACHINE ROOM TO INDICATED LOCATION. REFER NOTES #2, 43, 44.
42. EXTEND CONDENSATE DRAIN LINE FULL SIZE FROM UNIT UNDER RAISED MACHINE ROOM FLOOR THRU THIRD FLOOR INTO SECOND FLOOR CEILING SPACE. ROUTE DRAIN LINE IN CEILING SPACE AND CONNECT TO CONDENSATE DRAIN RISER LOCATED IN CHASE EAST OF STAIR 203. REFER SHEET M-3.
43. EXISTING AIR COOLED CONDENSER FOR COMPUTER ROOM AIR CONDITIONING UNIT.
44. EXISTING HOT GAS AND LIQUID REFRIGERANT LINES FROM EXISTING CONDENSER TO COMPUTER ROOM AIR CONDITIONING UNIT. CONTRACTOR TO VERIFY SIZE AND REROUTE AND EXTEND SAME FULL SIZE TO NEW AIR CONDITIONING UNIT LOCATION IN NEW MACHINE ROOM 314.
45. ALL EXISTING MECHANICAL EQUIPMENT, SUPPORTS, AND RELATED DEVICES AND EQUIPMENT, EXCEPT AIR COOLED CONDENSER FOR COMPUTER ROOM AIR CONDITIONING UNIT, IS TO BE REMOVED UPON COMPLETION OF PROJECT. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO AIR COOLED CONDENSERS, AIR COOLED CONDENSING UNIT, REFRIGERANT PIPING, ETC. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
46. CONDITIONED OUTSIDE AIR SUPPLY CHASE FROM R.T.A.H.U. # 1-51.
47. 3" VERTICAL CONDENSATE DRAIN FROM ABOVE.
48. REFER TO SHEET M-9 FOR CONTINUATION.
49. REFER TO SHEET M-9 FOR EQUIPMENT ROOM ROOF PLAN.
50. 4" WASTE LINE, REFER PLUMBING PLAN.



THIRD FLOOR AIR CONDITIONING PLAN

SCALE: 1/8"=1'-0"

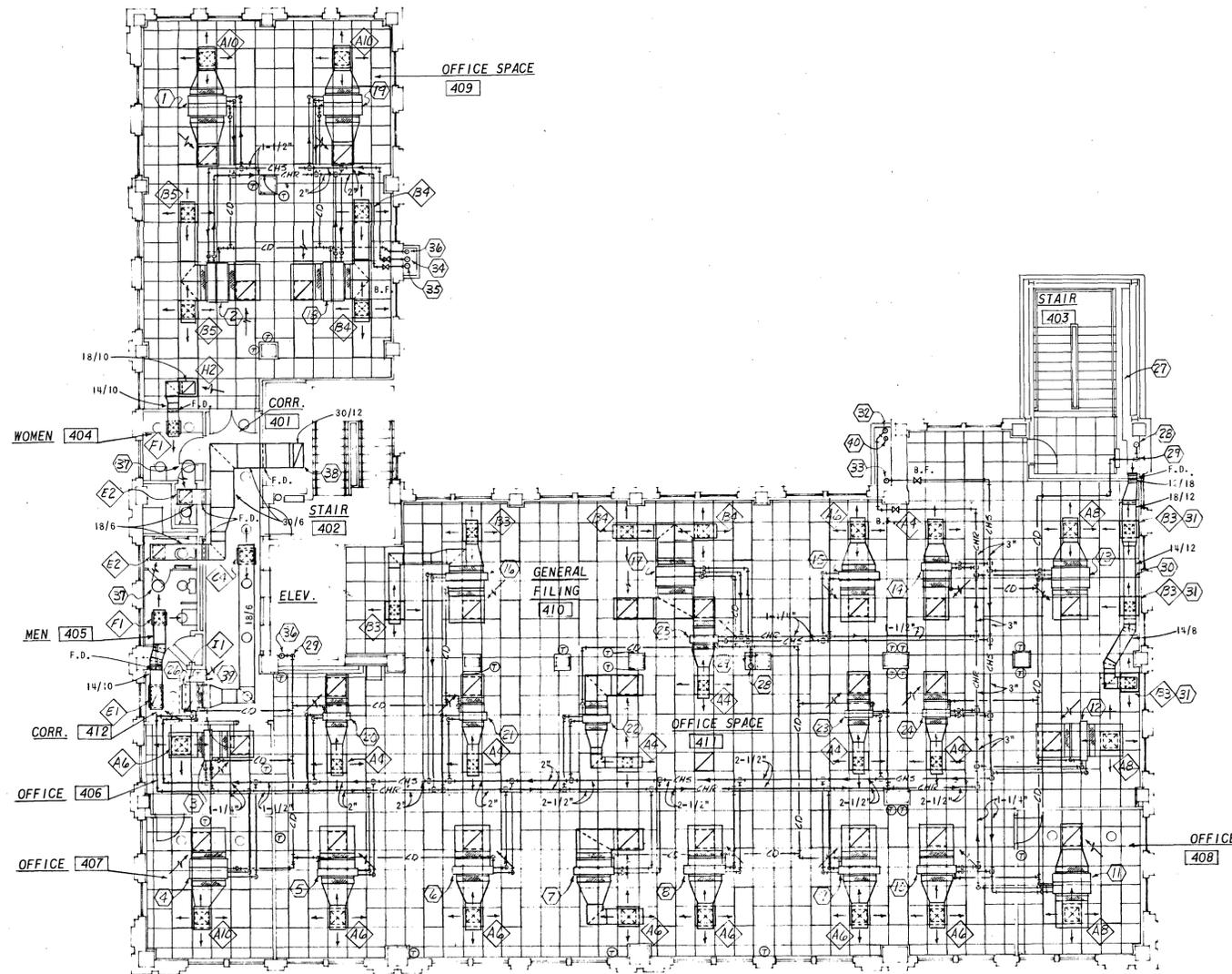
NOTES:

1. REFER TO 'MECHANICAL NOTES-GENERAL' SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
2. REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
3. REFER SHEET M-12 FOR 'AIR OUTLET AND GRILLE SCHEDULE' AND 'AIR OUTLET AND GRILLE SIZE/CFM INDEX.'

WILLIAMS, TIPPETT & ASSOC., INC.
CONSULTING ENGINEERS
ABILENE TEXAS

RENOVATION
BUILDING UTILITIES COMPANY
WEST TEXAS
ABILENE TEXAS

M-4



FOURTH FLOOR AIR CONDITIONING PLAN

SCALE: 1/8"=1'-0"

NOTES:

1. REFER TO 'MECHANICAL NOTES-GENERAL' SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
2. REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
3. REFER SHEET M-12 FOR 'AIR OUTLET AND GRILLE SCHEDULE' AND 'AIR OUTLET AND GRILLE SIZE/CFM INDEX.'

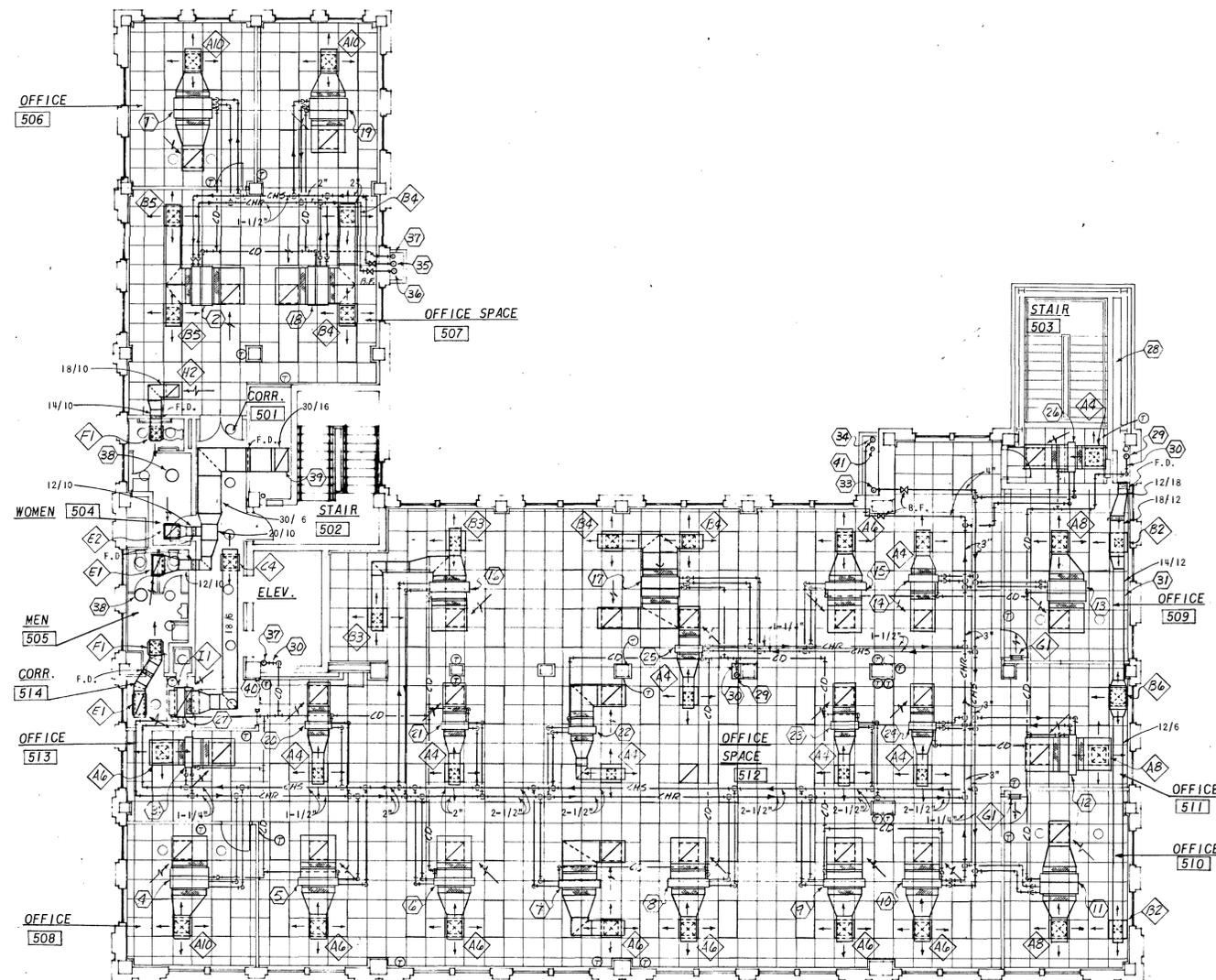
NOTES INDICATED BY NUMBER IN :

1. F.C. UNIT #4-10-6-1
2. F.C. UNIT #4-10-6-2
3. F.C. UNIT #4-6-2-3
4. F.C. UNIT #4-10-6-4
5. F.C. UNIT #4-6-4-5
6. F.C. UNIT #4-6-4-6
7. F.C. UNIT #4-6-4-7
8. F.C. UNIT #4-6-4-8
9. F.C. UNIT #4-6-4-9
10. F.C. UNIT #4-6-4-10
11. F.C. UNIT #4-8-6-11
12. F.C. UNIT #4-8-6-12
13. F.C. UNIT #4-8-6-13
14. F.C. UNIT #4-4-4-14
15. F.C. UNIT #4-6-6-15
16. F.C. UNIT #4-6-6-16
17. F.C. UNIT #4-8-6-17
18. F.C. UNIT #4-8-6-18
19. F.C. UNIT #4-10-6-19
20. F.C. UNIT #4-4-1-20
21. F.C. UNIT #4-4-1-21
22. F.C. UNIT #4-4-1-22
23. F.C. UNIT #4-4-1-23
24. F.C. UNIT #4-4-1-24
25. F.C. UNIT #4-4-4-25
26. F.C. UNIT #4-4-4-26
27. CONDITIONED OUTSIDE AIR SUPPLY CHASE FROM R.T.A.H.U. # 1-81.
28. 3" VERTICAL CONDENSATE DRAIN FROM ABOVE.
29. CONDENSATE COLLECTOR LINE FOR 4TH FLOOR F.C. UNITS TO CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
30. 4TH FLOOR CONDITIONED OUTSIDE AIR SUPPLY DUCT.
31. DIFFUSER TO BE SET FOR 333 CFM.
32. 6" CHR TO CHILLERS.
33. 6" CHS FROM CHILLERS.
34. 4" CHS FROM CHILLERS.
35. 4" CHR TO CHILLERS.
36. 2-1/2" VERTICAL CONDENSATE DRAIN LINE FROM ABOVE.
37. RECESSED CEILING MOUNTED ELECTRIC HEATER TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
38. VENTILATION EXHAUST DUCT. DUCT TO BE INSTALLED IN EXISTING DUCT CHASE. EXISTING DUCTS IN CHASE TO BE REMOVED IN CONJUNCTION WITH WORK OF THIS PROJECT. EXHAUST DUCT TO CONNECT TO DUCT FROM 3RD FLOOR AND EXTEND UP TO 5TH FLOOR AND TRANSITION TO 30/16. REFER TO SHEETS M-4 AND M-6. FURRING TO BE 1/2" GYP BOARD ON 3-5/8" STUDS. MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF FAN COIL UNIT AND FURRING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL SHEET A-18. CONTRACTOR TO REMOVE FAN COIL BOTTOM ACCESS PANEL SO THAT RETURN AIR MAY ENTER UNIT FROM BOTTOM. R.S.D. 50238.
- 39.
40. 4" WASTE LINE, REFER PLUMBING PLAN.

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M-5



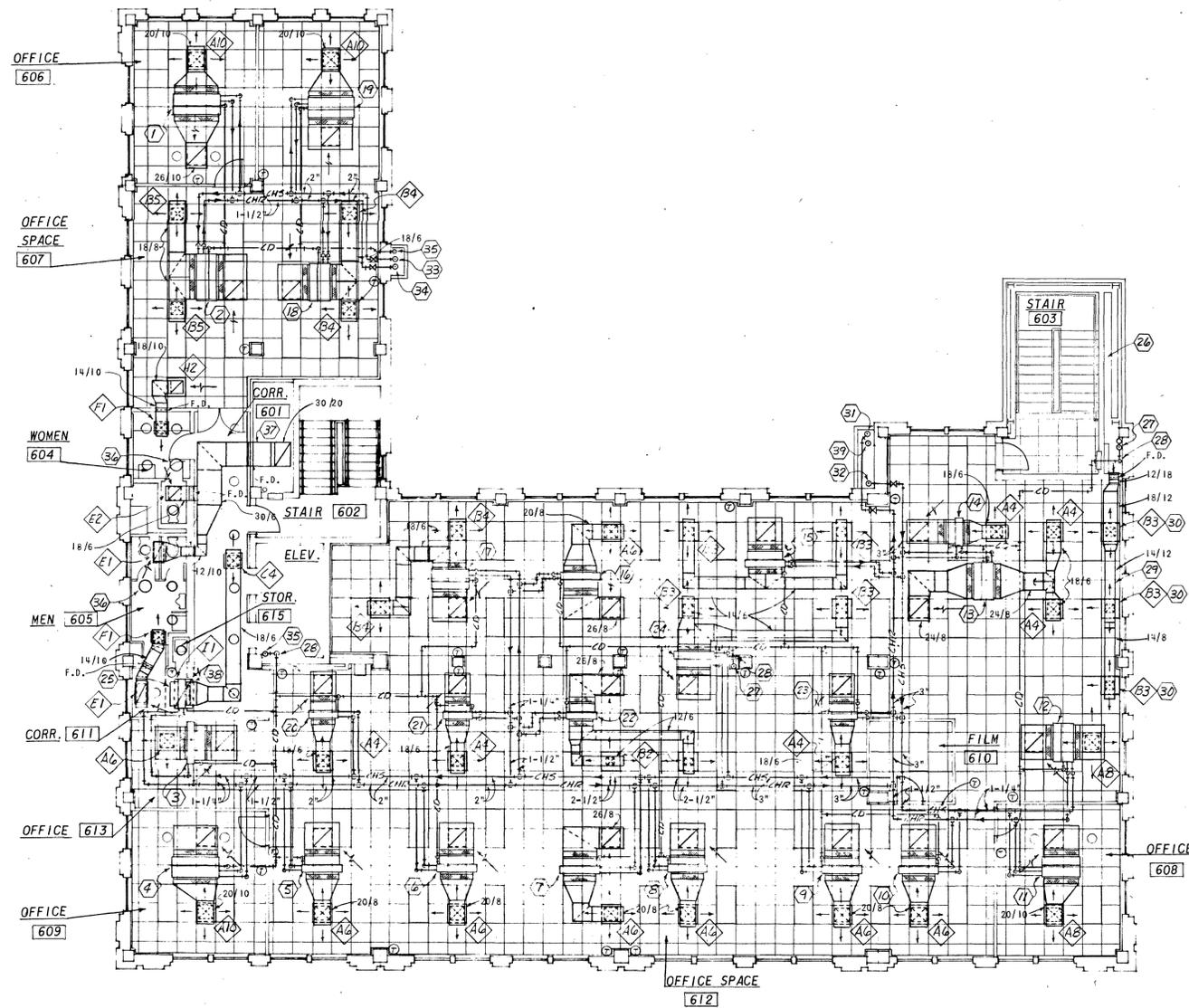
FIFTH FLOOR AIR CONDITIONING PLAN
 SCALE: 1/8"=1'-0"

- NOTES:
1. REFER TO "MECHANICAL NOTES-GENERAL" SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
 2. REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
 3. REFER SHEET M-12 FOR "AIR OUTLET AND GRILLE SCHEDULE" AND "AIR OUTLET AND GRILLE SIZE/CFM INDEX."

- NOTES INDICATED BY NUMBER IN :
1. F.C. UNIT #5-10-6-1
 2. F.C. UNIT #5-10-6-2
 3. F.C. UNIT #5-6-2-3
 4. F.C. UNIT #5-10-6-4
 5. F.C. UNIT #5-6-4-5
 6. F.C. UNIT #5-6-4-6
 7. F.C. UNIT #5-6-4-7
 8. F.C. UNIT #5-6-4-8
 9. F.C. UNIT #5-6-4-9
 10. F.C. UNIT #5-6-4-10
 11. F.C. UNIT #5-8-6-11
 12. F.C. UNIT #5-8-6-12
 13. F.C. UNIT #5-8-6-13
 14. F.C. UNIT #5-4-4-14
 15. F.C. UNIT #5-6-6-15
 16. F.C. UNIT #5-6-6-16
 17. F.C. UNIT #5-8-6-17
 18. F.C. UNIT #5-8-6-18
 19. F.C. UNIT #5-10-6-19
 20. F.C. UNIT #5-4-1-20
 21. F.C. UNIT #5-4-1-21
 22. F.C. UNIT #5-4-1-22
 23. F.C. UNIT #5-4-1-23
 24. F.C. UNIT #5-4-1-24
 25. F.C. UNIT #5-4-4-25
 26. F.C. UNIT #5-4-4-26
 27. F.C. UNIT #5-4-4-27
 28. CONDITIONED OUTSIDE AIR SUPPLY CHASE FROM R.T.A.H.U. # 1-81.
 29. 3" VERTICAL CONDENSATE DRAIN FROM ABOVE.
 30. CONDENSATE COLLECTOR LINE FOR 5th FLOOR F.C. UNITS TO CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
 31. 5th FLOOR CONDITIONED OUTSIDE AIR SUPPLY DUCT.
 32. DELETED.
 33. 6" CHR TO CHILLERS.
 34. 6" CHS FROM CHILLERS.
 35. 3" CHS FROM CHILLERS.
 36. 3" CHR TO CHILLERS.
 37. 2-1/2" VERTICAL CONDENSATE DRAIN LINE FROM ABOVE.
 38. RECESSED CEILING MOUNTED ELECTRIC HEATER TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 39. VENTILATION EXHAUST DUCT. DUCT TO BE INSTALLED IN EXISTING DUCT CHASE. EXISTING DUCTS IN CHASE TO BE REMOVED IN CONJUNCTION WITH WORK OF THIS PROJECT. EXHAUST DUCT TO CONNECT TO DUCT FROM 4th FLOOR AND EXTEND UP TO 6th FLOOR AND TRANSITION TO 30/20. REFER TO SHEETS M-5 AND M-7.
 40. F.C. UNIT # 5-4-4-27 TO BE ENCLOSED IN FURRED IN CEILING SPACE WITH RETURN AIR FILTER FRAME GRILLE UNDER UNIT. FURRING TO BE 1/2" GYP BOARD ON 3-5/8" STUDS. MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF FAN COIL UNIT AND FURRING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL SHEET A-19. CONTRACTOR TO REMOVE FAN COIL BOTTOM ACCESS PANEL SO THAT RETURN AIR MAY ENTER UNIT FROM BOTTOM. RSD 50238.
 41. 4" WASTE LINE, REFER PLUMBING PLAN.

WILLIAMS, TIPPETT & ASSOC., INC.
 CONSULTING ENGINEERS
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 TEXAS

RENOVATION
 BUILDING UTILITIES COMPANY
 WEST TEXAS UTILITIES COMPANY
 ABILENE
 TEXAS



SIXTH FLOOR AIR CONDITIONING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. REFER TO "MECHANICAL NOTES-GENERAL" SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
2. REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
3. REFER SHEET M-12 FOR "AIR OUTLET AND GRILLE SCHEDULE" AND "AIR OUTLET AND GRILLE SIZE/CFM INDEX."

NOTES INDICATED BY NUMBER IN

1. F.C. UNIT #6-10-6-1
2. F.C. UNIT #6-10-6-2
3. F.C. UNIT #6-6-2-3
4. F.C. UNIT #6-10-6-4
5. F.C. UNIT #6-6-4-5
6. F.C. UNIT #6-6-4-6
7. F.C. UNIT #6-6-4-7
8. F.C. UNIT #6-6-4-8
9. F.C. UNIT #6-6-4-9
10. F.C. UNIT #6-6-4-10
11. F.C. UNIT #6-8-6-11
12. F.C. UNIT #6-8-6-12
13. F.C. UNIT #6-8-6-13
14. F.C. UNIT #6-4-4-14
15. F.C. UNIT #6-6-6-15
16. F.C. UNIT #6-6-6-16
17. F.C. UNIT #6-8-6-17
18. F.C. UNIT #6-8-6-18
19. F.C. UNIT #6-10-6-19
20. F.C. UNIT #6-4-1-20
21. F.C. UNIT #6-4-1-21
22. F.C. UNIT #6-4-1-22
23. F.C. UNIT #6-4-1-23
24. F.C. UNIT #6-6-4-24
25. F.C. UNIT #6-4-1-25
26. CONDITIONED OUTSIDE AIR SUPPLY CHASE FROM R.T.A.H.U. # 1-81.
27. 3" VERTICAL CONDENSATE DRAIN FROM ABOVE.
28. CONDENSATE COLLECTOR LINE FOR 4TH FLOOR. F.C. UNITS TO CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
29. 6TH FLOOR CONDITIONED OUTSIDE AIR SUPPLY DUCT.
30. DIFFUSED TO BE SET FOR 333 CFM.
31. 6" CHR TO CHILLERS.
32. 6" CHR FROM CHILLERS.
33. 3" CHS FROM CHILLERS
34. 3" CHS TO CHILLERS
35. 2-1/2" VERTICAL CONDENSATE DRAIN LINE FROM ABOVE.
36. RECESSED CEILING MOUNTED ELECTRIC HEATER TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
37. VENTILATION EXHAUST DUCT. DUCT TO BE INSTALLED IN EXISTING DUCT CHASE. EXISTING DUCTS IN CHASE TO BE REMOVED IN CONJUNCTION WITH WORK OF THIS PROJECT. EXHAUST DUCT TO CONNECT TO DUCT FROM 5TH FLOOR AND EXTEND UP TO 7TH FLOOR AND TRANSITION TO 30/22. REFER TO SHEETS M-6 AND M-8.
38. F.C. UNIT # 6-4-4-25 TO BE ENCLOSED IN FURRED IN CEILING SPACE WITH RETURN AIR FILTER FRAME GRILLE UNDER UNIT. FURRING TO BE 1/2" GYP BOARD ON 3-5/8" STUDS. MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF FAN COIL UNIT AND FURRING WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL SHEET A-20. CONTRACTOR TO REMOVE FAN COIL BOTTOM ACCESS PANEL SO THAT RETURN AIR MAY ENTER UNIT FROM BOTTOM. R.S.D. 50238.
39. 4" WASTE LINE, REFER PLUMBING PLAN.

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M-7

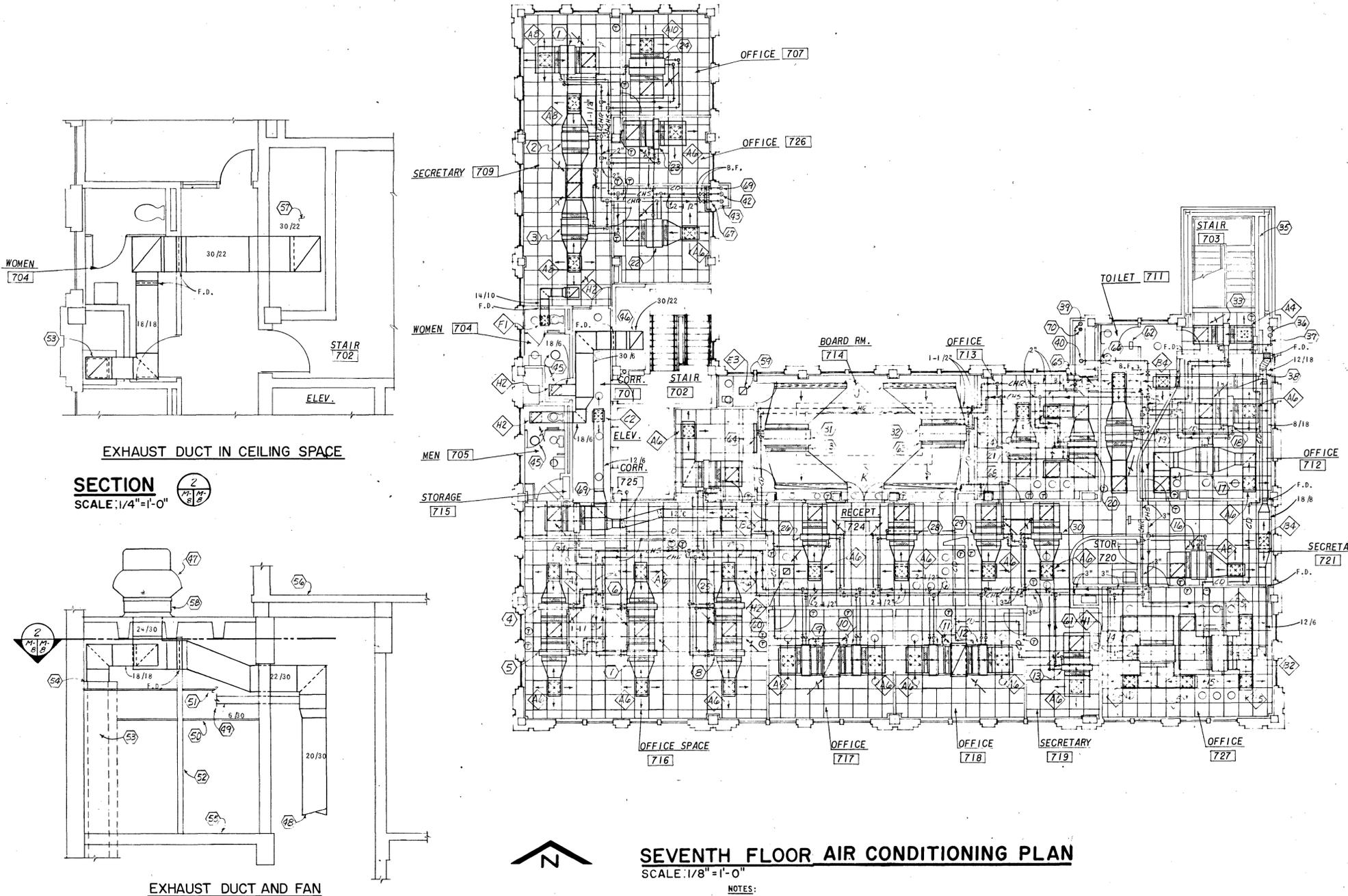
- NOTES INDICATED BY NUMBER IN \square :
- F.C. UNIT # 7-8-6-1
 - F.C. UNIT # 7-8-6-2
 - F.C. UNIT # 7-8-6-3
 - F.C. UNIT # 7-6-4-4
 - F.C. UNIT # 7-6-4-5
 - F.C. UNIT # 7-6-4-6
 - F.C. UNIT # 7-6-4-7
 - F.C. UNIT # 7-6-4-8
 - F.C. UNIT # 7-6-4-9
 - F.C. UNIT # 7-6-4-10
 - F.C. UNIT # 7-6-4-11
 - F.C. UNIT # 7-6-4-12
 - F.C. UNIT # 7-6-4-13
 - F.C. UNIT # 7-10-6-14
 - F.C. UNIT # 7-10-6-15
 - F.C. UNIT # 7-8-4-16
 - F.C. UNIT # 7-6-4-17
 - F.C. UNIT # 7-6-4-18
 - F.C. UNIT # 7-8-6-19
 - F.C. UNIT # 7-6-4-20
 - F.C. UNIT # 7-6-4-21
 - F.C. UNIT # 7-8-6-25
 - F.C. UNIT # 7-6-4-26
 - F.C. UNIT # 7-10-6-27
 - F.C. UNIT # 7-6-4-28
 - F.C. UNIT # 7-6-4-29
 - F.C. UNIT # 7-4-2-30
 - F.C. UNIT # 7-6-4-31
 - F.C. UNIT # 7-6-4-32
 - F.C. UNIT # 7-6-4-33
 - F.C. UNIT # 7-10-6-35
 - F.C. UNIT # 7-10-6-36
 - F.C. UNIT # 7-4-4-37
 - F.C. UNIT # 7-4-4-38
 - CONDITIONED OUTSIDE AIR CHASE FROM R.T.A.H.U. # 1-81.
 - 3" VERTICAL CONDENSATE DRAIN FROM ABOVE (EXTENDS THRU ROOF TO R.T.A.H.U. # 1-81).
 - CONDENSATE COLLECTOR LINE FOR 7TH FLOOR FAN COIL UNITS TO CONNECT TO A LATERAL FITTING IN THE VERTICAL DRAIN AT A POINT A MINIMUM OF 1'-0" BELOW CEILING LINE.
 - 7TH FLOOR CONDITIONED OUTSIDE AIR DUCT.
 - 6" CHR TO CHILLERS; 3" BEYOND 7TH FLOOR CONNECTIONS (TO R.T.A.H.U. # 1-81).
 - 6" CHS FROM CHILLERS; 3" BEYOND 7TH FLOOR CONNECTIONS (TO R.T.A.H.U. # 1-81).
 - DELETED
 - 2-1/2" CHS LINE FROM CHILLERS.
 - 2-1/2" CHR LINE TO CHILLERS.
 - DELETED
 - RECESSED CEILING MOUNTED ELECTRIC HEATER TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - VENTILATION EXHAUST DUCT. DUCT TO BE INSTALLED IN EXISTING DUCT CHASE. EXISTING DUCTS IN CHASE TO BE REMOVED AS PART OF WORK OF THIS PROJECT. EXHAUST DUCT TO CONNECT TO DUCT FROM 6TH FLOOR AND EXTEND TO ROOF MOUNTED EXHAUST FAN # 7-5-81. REFER TO SHEET MPE-1 AND SECTIONS ON THIS SHEET FOR EXHAUST DUCT ROUTING IN CEILING SPACE.
 - EXHAUST FAN # 7-5-81.
 - EXHAUST DUCT FROM 6TH FLOOR.
 - EXHAUST DUCT FROM MEN 705 AND WOMEN 704; REFER TO AIR CONDITIONING PLAN, THIS SHEET.
 - NEW 8' GYP BOARD CEILING IN TOILETS.
 - EXISTING PLASTER CEILING; REMOVE AS REQUIRED FOR INSTALLATION OF EXHAUST DUCT.
 - NEW CORRIDOR WALL EXTENDING TO ROOF STRUCTURE. REFER TO ARCHITECTURAL SHEET A-21.
 - EXISTING BOILER FLUE TO BE USED AS EXHAUST PLENUM FOR EXHAUST AIR FROM 2ND FLOOR. REFER TO SHEET M-3.
 - EXISTING 19-1/2" σ STEEL FLUE TO BE REMOVED FROM TOP OF MASONRY FLUE (REFER TO SHEET MPE-1) AND 18"X18" EXHAUST DUCT CONNECTED TO TOP OF FLUE.
 - 7TH FLOOR.
 - PENTHOUSE FLOOR.
 - EXISTING DUCT CHASE AND RETURN AIR PLENUM.
 - EXTENDED BASE CURB WITH BACK DRAFT DAMPER. RSD 51371 FOR CURB MOUNTING DETAILS.
 - EXTEND 12X12 EXHAUST DUCT FROM GRILLE TO EXHAUST FAN #7-3-81 ON ROOF. COORDINATE ROOF PENETRATION WITH ROOF STRUCTURE. PROVIDE ANY TRANSITIONS IN DUCT WORK TO MAKE CONNECTIONS OR OFFSETS AS REQUIRED.
 - EXTEND 16X16 EXHAUST DUCT FROM GRILLE TO EXHAUST FAN # 7-2-81 ON ROOF. COORDINATE ROOF PENETRATION WITH ROOF STRUCTURE. PROVIDE ANY TRANSITIONS IN DUCT WORK TO MAKE CONNECTIONS OR OFFSETS AS REQUIRED.
 - EXTEND 12X12 EXHAUST DUCT FROM GRILLE TO EXHAUST FAN # 7-1-81 ON ROOF. COORDINATE ROOF PENETRATION WITH ROOF STRUCTURE. PROVIDE ANY TRANSITIONS IN DUCT WORK TO MAKE CONNECTIONS OR OFFSETS AS REQUIRED.
 - EXHAUST FAN # 7-4-81. UNIT TO BE COMBINATION EXHAUST FAN/HEATER. UNIT TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL DUCT WORK AND DISCHARGE JACK FOR UNIT. DUCT TO BE 4". CONTRACTOR TO COORDINATE ROOF PENETRATIONS WITH ROOF STRUCTURE AND PROVIDE ANY TRANSITIONS IN DUCTWORK TO MAKE CONNECTIONS OR OFFSETS AS REQUIRED.
 - CONTRACTOR TO FABRICATE AND INSTALL A FILTER FRAME IMMEDIATELY BEHIND THE DUCT CONNECTION ON RETURN SIDE OF FAN COIL UNIT. FILTER FRAME SHALL BE SIZED TO HOLD FILTER OF SIZE NORMALLY INSTALLED INSIDE FAN COIL UNIT. FRAME SHALL ALLOW SIDE ACCESS TO FILTERS SO THAT FILTERS CAN BE REACHED AND CHANGED OUT FROM ACCESS DOOR IN THE WALL ADJACENT TO THE UNIT. CONTRACTOR TO VERIFY THAT NO FILTER IS INSIDE UNIT PRIOR TO INSTALLATION.
 - MECHANICAL CONTRACTOR TO PROVIDE 4'-0" (W) X 3'-0" (H) ACCESS OPENING IN WALL ABOVE CEILING SPACE. OPENING TO BE CENTERED ON FAN COIL UNIT SO AS TO PROVIDE OPTIMUM ACCESSIBILITY TO UNITS FOR FILTER CHANGING (REFER NOTE 63) AND MAINTENANCE. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FRAMING DETAILS FOR OPENINGS.
 - TURN CHR DOWN IN FURRED IN SPACE PROVIDED TO ALLOW LINE TO PASS UNDER BEAM INTO CHASE.
 - TURN CHS DOWN IN CEILING SPACE TO ALLOW LINE TO PASS UNDER BEAM INTO CHASE.
 - CHR, CHS, AND CD TO PASS UNDER BEAM AND BE HELD UP "TIGHT" AGAINST BOTTOM OF BEAM SO AS TO REQUIRE MINIMUM DEPTH OF FURR DOWN. REFER ARCHITECTURAL SHEET A-21.
 - 3" VERTICAL CONDENSATE DRAIN DOWN TO FLOORS BELOW; REFER TO SHEET M-7.
 - VERTICAL DRAIN TO EXTEND UPWARD BEYOND POINT OF CONNECTION TO 7TH FLOOR DRAIN LINES AND TERMINATE APPROXIMATELY 6" BELOW ROOF DECK. OPEN END OF PIPE TO BE COVERED WITH INSECT SCREEN.
 - 2-1/2" VERTICAL CONDENSATE DRAIN DOWN TO FLOORS BELOW (EXTEND AND COVER SAME AS NOTE 68).
 - 4" WASTE LINE, REFER PLUMBING PLAN.

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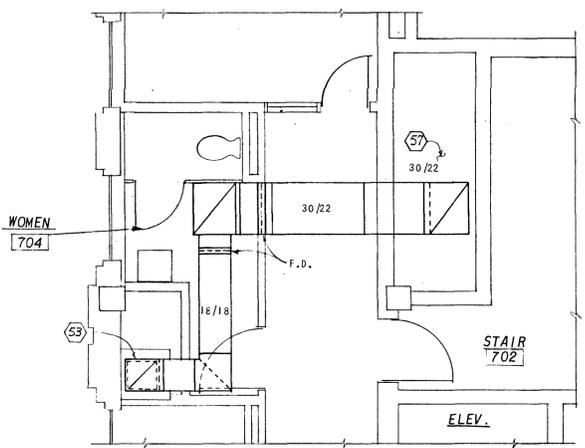
M-8



SEVENTH FLOOR AIR CONDITIONING PLAN
SCALE: 1/8" = 1'-0"

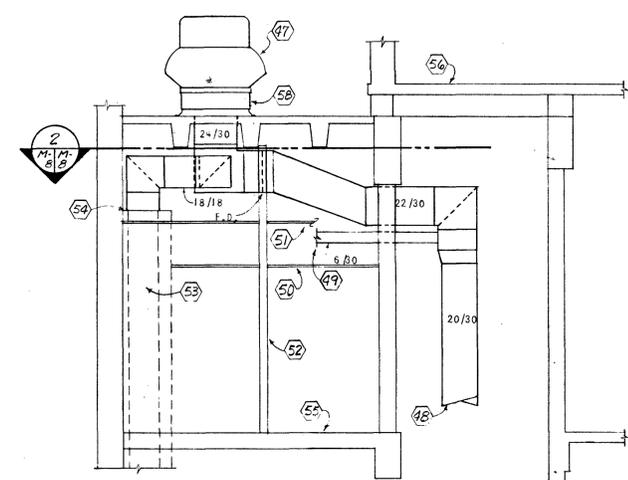
- NOTES:
- REFER TO "MECHANICAL NOTES-GENERAL" SHEET M-12 FOR RUNOUT SIZES, CONDENSATE DRAIN SIZES, DIFFUSER-DUCT SIZES AND DEMOLITION NOTES.
 - REFER SHEETS M-13, M-14 FOR FAN COIL UNIT SCHEDULES.
 - REFER SHEET M-12 FOR "AIR OUTLET AND GRILLE SCHEDULE" AND "AIR OUTLET AND GRILLE SIZE/CFM INDEX."

SECTION 2
SCALE: 1/4" = 1'-0"

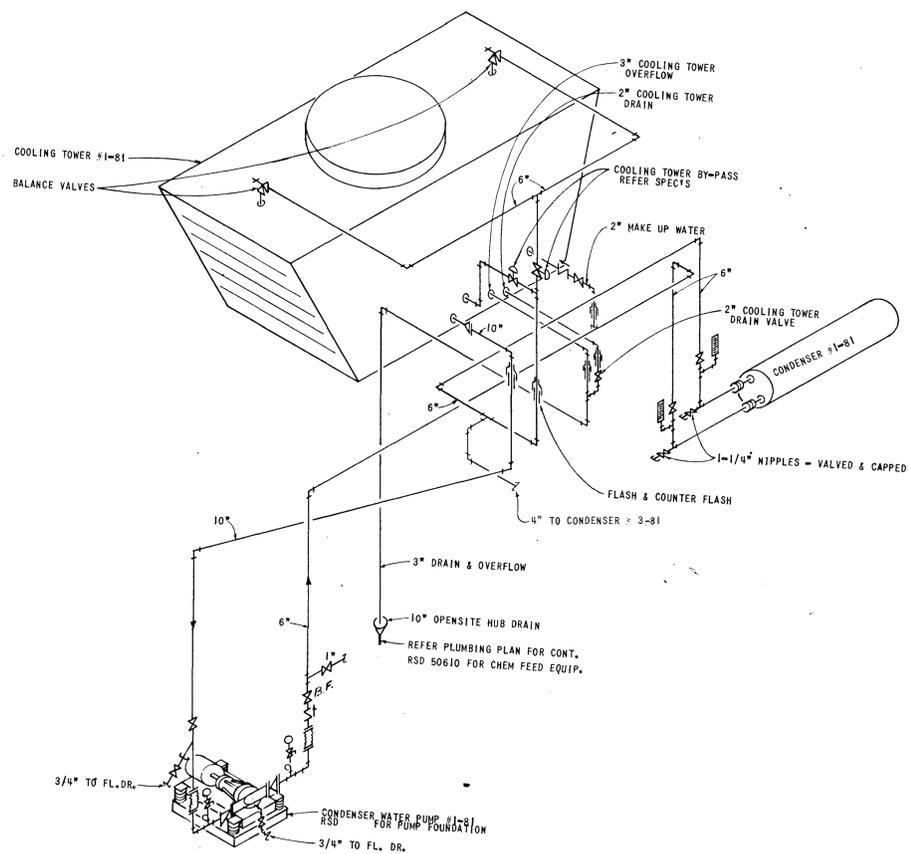


EXHAUST DUCT IN CEILING SPACE

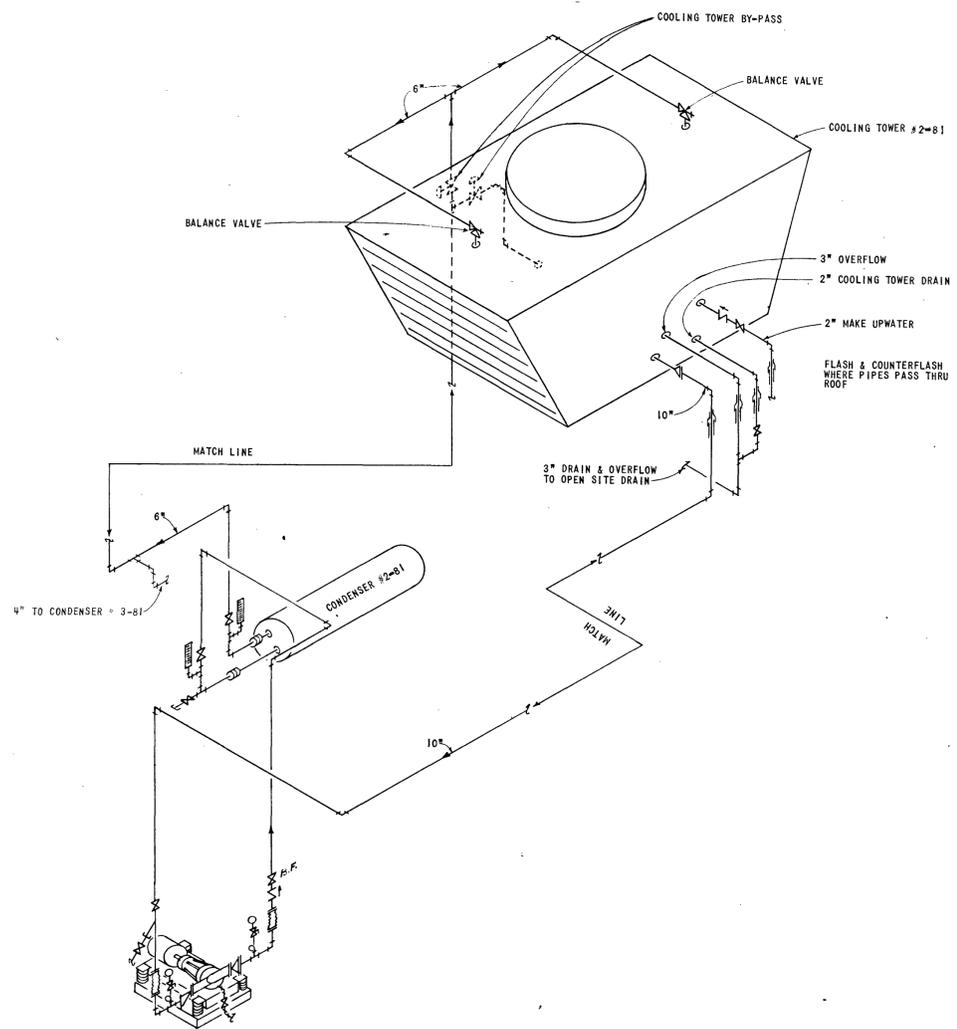
SECTION 1
SCALE: 1/4" = 1'-0"



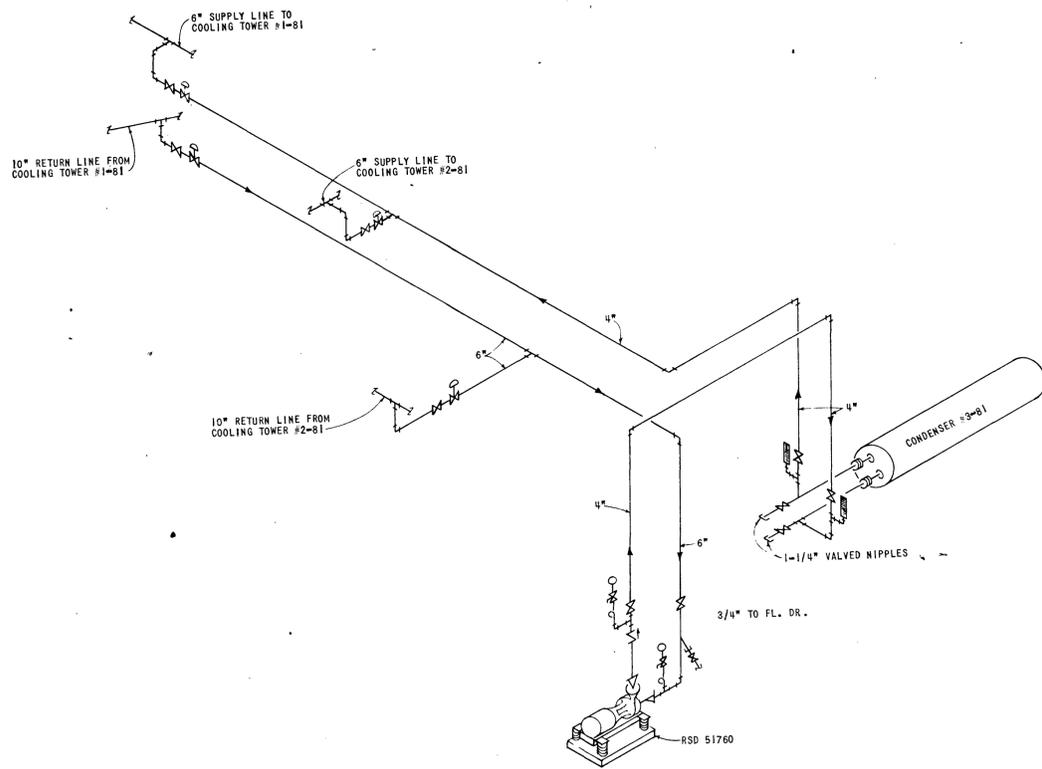
EXHAUST DUCT AND FAN



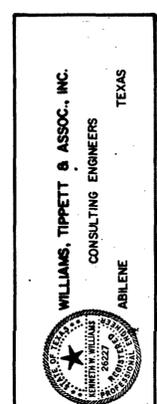
CONDENSER WATER PIPING SCHEMATIC
NO SCALE



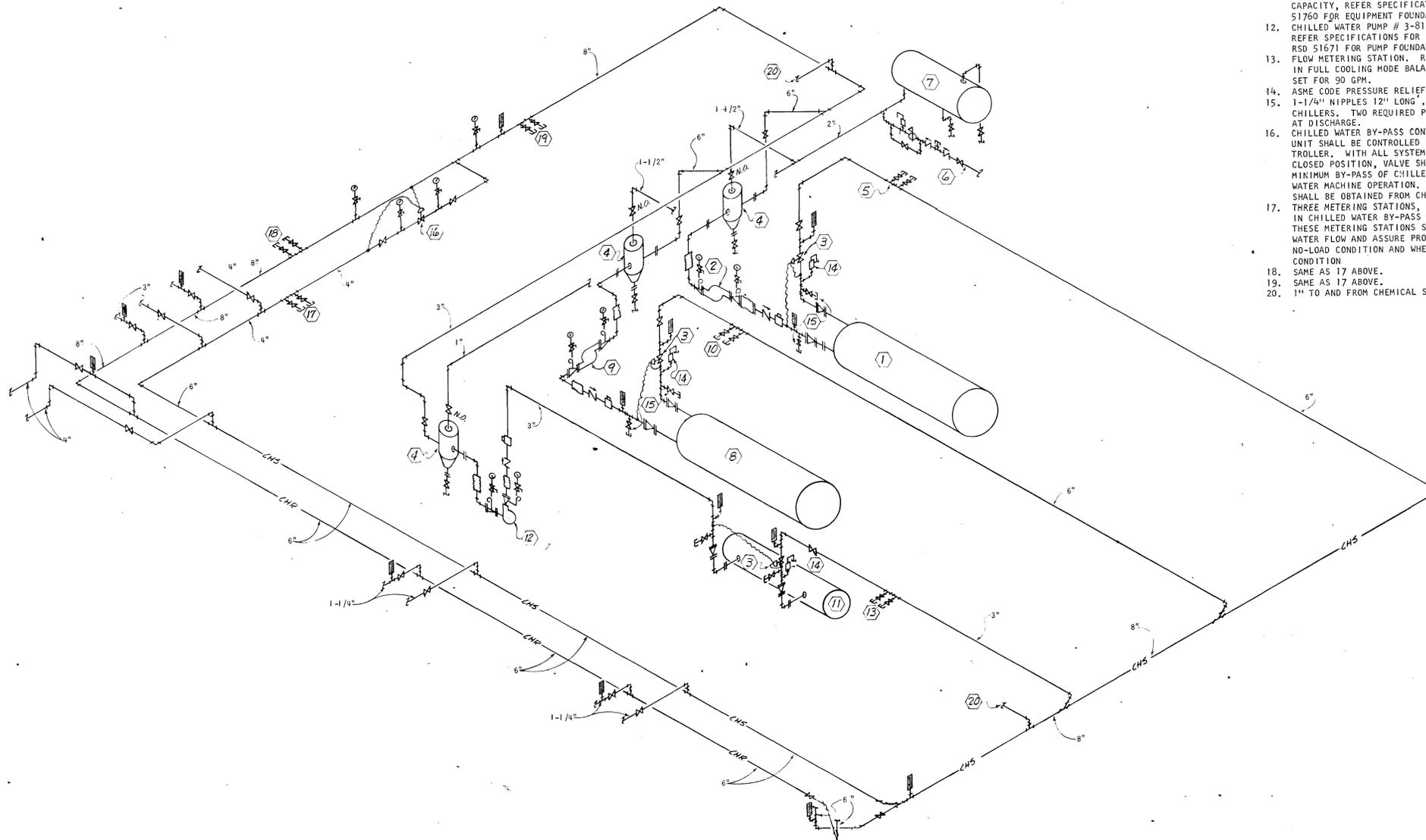
CONDENSER WATER PIPING SCHEMATIC
NO SCALE



CONDENSER WATER PIPING SCHEMATIC
NO SCALE



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EQUIPMENT ROOM CHILLED WATER PIPING SCHEMATIC
NO SCALE.

- NOTES INDICATED BY NUMBER IN :
1. CENTRIFUGAL CHILLER # 1-81; REFER SPECIFICATIONS FOR DESCRIPTION. RSD 51691 FOR EQUIPMENT FOUNDATION.
 2. CHILLED WATER PUMP # 1-81; REFER SPECIFICATIONS FOR DESCRIPTION. RSD 51671 FOR PUMP FOUNDATION AND VIBRATION ISOLATORS.
 3. PRESSURE CONTROLLER - REFER SPECIFICATIONS. CONTROLLER SHALL MAINTAIN CONSTANT PRESSURE DROP ACROSS CHILLER.
 4. LINE SIZE ROAIRTRROL AIR FITTING AND STRAINER. REFER SPECIFICATIONS. PROVIDE 3/4" DRAIN VALVE WITH DRAIN LINE TO FLOOR DRAIN.
 5. FLOW METERING STATION - REFER SPECIFICATIONS. WITH SYSTEM IN FULL COOLING MODE, BALANCE VALVE AT CHILLED WATER PUMP # 1-81 SHALL BE SET FOR 567 GPM. (SYSTEM # 2 & 3 SHALL BE SHUT DOWN.)
 6. MAKE-UP WATER LINE FOR CHILLED WATER SYSTEM. 1" WATER LINE, 1" DOUBLE CHECK VALVE WITH VACUUM BREAKER, 3/4" PRESSURE REDUCING VALVE, ASME RELIEF VALVE AND 1" QUICK FILL BY-PASS. REFER TO SPECIFICATIONS.
 7. CHILLED WATER EXPANSION TANK. REFER TO SPECIFICATIONS. RSD 51500 FOR EXPANSION TANK SUPPORT DETAIL. RSD 51520 FOR EXPANSION TANK PIPING DETAIL.
 8. CENTRIFUGAL CHILLER # 2-81; REFER SPECIFICATIONS FOR DESCRIPTION. RSD 51691 FOR EQUIPMENT FOUNDATION.
 9. CHILLED WATER PUMP # 2-81; REFER SPECIFICATIONS FOR DESCRIPTION. RSD 51671 FOR EQUIPMENT FOUNDATION.
 10. FLOW METERING STATION. REFER SPECIFICATIONS WITH SYSTEM IN FULL COOLING MODE, BALANCE VALVE AT CHILLED WATER PUMP # 2-81 SHALL BE SET FOR 567 GPM. (SYSTEM 1 & 3 SHALL BE SHUT DOWN.)
 11. RECIPROCATING WATER CHILLER # 3-81. REFER SCHEDULE FOR CAPACITY, REFER SPECIFICATIONS FOR DESCRIPTION, RSD 51760 FOR EQUIPMENT FOUNDATION.
 12. CHILLED WATER PUMP # 3-81, REFER SCHEDULE FOR CAPACITY, REFER SPECIFICATIONS FOR END SUCTION CLOSED COUPLED PUMP. RSD 51671 FOR PUMP FOUNDATION.
 13. FLOW METERING STATION. REFER SPECIFICATIONS, WITH SYSTEM IN FULL COOLING MODE BALANCE VALVE AT PUMP DISCHARGE SHALL BE SET FOR 90 GPM.
 14. ASME CODE PRESSURE RELIEF VALVE.
 15. 1-1/4" NIPPLES 12" LONG, VALVED AND CAPPED FOR ACIDIZING CHILLERS. TWO REQUIRED PER CHILLER. ONE AT INLET AND ONE AT DISCHARGE.
 16. CHILLED WATER BY-PASS CONTROLLER. REFER SPECIFICATIONS. UNIT SHALL BE CONTROLLED BY DIFFERENTIAL PRESSURE CONTROLLER. WITH ALL SYSTEM TWO WAY CONTROL VALVES IN THE CLOSED POSITION, VALVE SHALL BE ADJUSTED TO ALLOW MINIMUM BY-PASS OF CHILLED WATER TO MAINTAIN CHILLED WATER MACHINE OPERATION. (MINIMUM CHILLED WATER QUANTITY SHALL BE OBTAINED FROM CHILLED WATER MACHINE MANUFACTURE).
 17. THREE METERING STATIONS, ONE IN MAIN CHILLED WATER RETURN, ONE IN CHILLED WATER BY-PASS AND ONE IN MAIN CHILLED WATER RETURN. THESE METERING STATIONS SHALL BE UTILIZED TO BALANCE THE WATER FLOW AND ASSURE PROPER FLOW WHEN THE SYSTEM IS IN A NO-LOAD CONDITION AND WHEN THE SYSTEM IS UNDER A FULL LOAD CONDITION.
 18. SAME AS 17 ABOVE.
 19. SAME AS 17 ABOVE.
 20. 1" TO AND FROM CHEMICAL SHOT FEEDER. RSD 50600.



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AIR OUTLET AND GRILLE SCHEDULE

DESIGNATION	TYPE OUTLET OR DEVICE	TYPE MT'G FRAME	VOLUME CONTROL DAMPER	DEFLECTROL	TYPE CORE OR FACE	MANUFACTURERS MODEL NO.	REMARKS (SEE NOTE 1 BELOW)
A	SUPPLY	FRAME 23	NOT REQUIRED	REQUIRED	PERFORATED	KRUEGER SERIES 1100	2X2 LAY-IN PANEL SIZE
B	SUPPLY	FRAME 23	REQUIRED	REQUIRED	PERFORATED	KRUEGER SERIES 1100	2X2 LAY-IN PANEL SIZE
C	SUPPLY	FRAME 22	NOT REQUIRED	REQUIRED	PERFORATED	KRUEGER SERIES C1100	
D	RETURN	-	NOT REQUIRED	NOT REQUIRED	HORIZ. DEF. VANES	KRUEGER ALS 585 H-5FF	2X2 LAY-IN PANEL SIZE (2)
E	RETURN	-	NOT REQUIRED	NOT REQUIRED	HORIZ. DEF. VANES	KRUEGER ALS 585 H	(3)
F	SUPPLY	-	REQUIRED	NOT REQUIRED	HORIZ. DEF. VANES	KRUEGER AL 585 H	(3)
G	TRANSFER	DB. FLT W/1-1/4" MAR	-	-	V-CORE	KRUEGER AL 600 A	DOOR GRILLE (3)
H	RETURN/EXH	FRAME 23	NOT REQUIRED	NOT REQUIRED	PERFORATED	KRUEGER SERIES 1190	2X2 LAY IN PANEL SIZE
I	RETURN	-	NOT REQUIRED	NOT REQUIRED	HORIZ. DEF. VANES	KRUEGER ALS 585 H-5FF	(2)
J	SUPPLY	SURFACE-METHOD "B"	NOT REQUIRED	NOT REQUIRED	LINEAR-SLOT	KRUEGER 1904-100B	LINEAR DIFFUSER
K	RETURN	SURFACE-TYPE "S"	NOT REQUIRED	NOT REQUIRED	HORIZ. DEF. VANES	KRUEGER SERIES 1600	LINEAR RETURN GRILLE
L	SUPPLY	-	REQUIRED	REQUIRED	VERT. DEF. VANES	KRUEGER SERIES AL5885 V	SIDE WALL GRILLE
M	RETURN	-	REQUIRED	-	HORIZ. DEF. VANES	KRUEGER ALS 585 H	
N	TRANSFER	SING. W/ 1-1/4" MAR	-	-	V-CORE	KRUEGER AL-600	
P	SUPPLY	-	NOT REQUIRED	NOT REQUIRED	VERT. DEF. VANES	KRUEGER SERIES AL5885 V	SIDE WALL GRILLE

- NOTES: 1. ALL CEILING OUTLETS AND GRILLES TO HAVE FINISH EQUAL TO KRUEGER 490 STANDARD WHITE FINISH.
 2. HINGED GRILLE FACE
 3. GRILLE TO BE FURNISHED IN COLOR SPECIFIED BY ARCHITECT.

AIR OUTLET AND GRILLE SIZE/CFM INDEX

MARK	TYPE OUTLET	SIZE	C.F.M.	REMARKS	MARK	TYPE OUTLET	SIZE	C.F.M.	REMARKS
A2	SUPPLY	10 X 10	200	TYPE "A" GRILLE, REF. SCHEDULE	E5	RETURN	30 X 10		TYPE "E" GRILLE, REF. SCHEDULE
A3	SUPPLY	12 X 12	300	TYPE "A" GRILLE, REF. SCHEDULE	E6	RETURN	10 X 10		TYPE "E" GRILLE, REF. SCHEDULE
A4	SUPPLY	15 X 15	400	TYPE "A" GRILLE, REF. SCHEDULE	F1	SUPPLY	12 X 12		TYPE "F" GRILLE, REF. SCHEDULE
A5	SUPPLY	15 X 15	500	TYPE "A" GRILLE, REF. SCHEDULE	F2	SUPPLY	12 X 18		TYPE "F" GRILLE, REF. SCHEDULE
A6	SUPPLY	18 X 18	600	TYPE "A" GRILLE, REF. SCHEDULE	G1	TRANSFER	12 X 12		TYPE "G" GRILLE, REF. SCHEDULE
A8	SUPPLY	18 X 18	800	TYPE "A" GRILLE, REF. SCHEDULE	G2	-	-	-	DELETED
A10	SUPPLY	18 X 18	1000	TYPE "A" GRILLE, REF. SCHEDULE	G3	TRANSFER	24 X 12		TYPE "G" GRILLE, REF. SCHEDULE
B1	SUPPLY	8 X 8	100	TYPE "B" GRILLE, REF. SCHEDULE	G4	TRANSFER	24 X 16		TYPE "G" GRILLE, REF. SCHEDULE
B2	SUPPLY	10 X 10	200	TYPE "B" GRILLE, REF. SCHEDULE	H1	RETURN	10 X 10		TYPE "H" GRILLE, REF. SCHEDULE
B3	SUPPLY	12 X 12	300	TYPE "B" GRILLE, REF. SCHEDULE	H2	RETURN	16 X 16		TYPE "H" GRILLE, REF. SCHEDULE
B4	SUPPLY	15 X 15	400	TYPE "B" GRILLE, REF. SCHEDULE	H3	RETURN	20 X 20		TYPE "H" GRILLE, REF. SCHEDULE
B5	SUPPLY	15 X 15	500	TYPE "B" GRILLE, REF. SCHEDULE	H4	RETURN	14 X 14		TYPE "H" GRILLE, REF. SCHEDULE
B6	SUPPLY	18 X 18	600	TYPE "B" GRILLE, REF. SCHEDULE	I1**	RETURN	24 X 36		TYPE "I" GRILLE, REF. SCHEDULE
B8	SUPPLY	18 X 18	800	TYPE "B" GRILLE, REF. SCHEDULE	J	SUPPLY	10'-0" X 8'-7/16"	1200	TYPE "J" GRILLE, REF. SCHEDULE
B10	SUPPLY	18 X 18	1000	TYPE "B" GRILLE, REF. SCHEDULE	K	RETURN	10'-0" X 8"		TYPE "K" GRILLE, REF. SCHEDULE
C2	SUPPLY	10 X 10	200	TYPE "C" GRILLE, REF. SCHEDULE	L1	SUPPLY	16 X 10	500	TYPE "L" GRILLE, REF. SCHEDULE
C3	SUPPLY	12 X 12	300	TYPE "C" GRILLE, REF. SCHEDULE	M1	RETURN	12 X 24		TYPE "M" GRILLE, REF. SCHEDULE
C4	SUPPLY	15 X 15	400	TYPE "C" GRILLE, REF. SCHEDULE	M2	RETURN	24 X 12		TYPE "M" GRILLE, REF. SCHEDULE
C5	SUPPLY	15 X 15	500	TYPE "C" GRILLE, REF. SCHEDULE	N1	TRANSFER	12 X 24		TYPE "N" GRILLE, REF. SCHEDULE
C6	SUPPLY	18 X 18	600	TYPE "C" GRILLE, REF. SCHEDULE	P1	SUPPLY	34 X 6	600	TYPE "P" GRILLE, REF. SCHEDULE
C8	SUPPLY	18 X 18	800	TYPE "C" GRILLE, REF. SCHEDULE	P2	SUPPLY	30 X 4	400	TYPE "P" GRILLE, REF. SCHEDULE
C10	SUPPLY	18 X 18	1000	TYPE "C" GRILLE, REF. SCHEDULE					
D	RETURN	22 X 22		TYPE "D" GRILLE, REF. SCHEDULE					
E1	RETURN	12 X 24		TYPE "E" GRILLE, REF. SCHEDULE					
E2	RETURN	16 X 16		TYPE "E" GRILLE, REF. SCHEDULE					
E3	RETURN	12 X 12		TYPE "E" GRILLE, REF. SCHEDULE					
E4	RETURN	18 X 18		TYPE "E" GRILLE, REF. SCHEDULE					

- * CONTRACTOR TO FURNISH 22"X22"X1" PERMANENT FILTER, PER SPECIFICATIONS, WITH EACH GRILLE.
 ** CONTRACTOR TO FURNISH PERMANENT FILTER SIZED FOR GRILLE, PER SPECIFICATIONS, WITH EACH GRILLE.

PUMP SCHEDULE

PUMP DESIGNATION	GPM	HEAD FT. WATER	MIN. EFF.	TYPE OF PUMP	SPEED RPM	MIN. H.R.	VOLTS	PHASE	REMARKS
CH. WATER PUMP # 1-81	567	100	86	SPLIT CASE-D.S.	1750	25	460	3	PRE-PURCHASED-REFER SPECS
CH. WATER PUMP # 2-81	567	100	86	SPLIT CASE-D.S.	1750	25	460	3	PRE-PURCHASED-REFER SPECS
CH. WATER PUMP # 3-81	90	100	42	END SUCT.-C.C.	1750	7.5	460	3	PACO 1-1/2" X2-1/2" X9-1/2"
COND. WATER PUMP # 1-81	567	80	85	SPLIT CASE-D.S.	1750	20	460	3	PRE-PURCHASED REFER SPECS
COND. WATER PUMP # 2-81	567	80	85	SPLIT CASE-D.S.	1750	20	460	3	PRE-PURCHASED REFER SPECS
COND. WATER PUMP # 3-81	90	60	40	END. SUCT.-C.C.	1750	5	460	3	PACO 1-1/2" X2-1/2" X9-1/2"

COOLING TOWER SCHEDULE

TOWER DESIG.	GPM	ENT. T. °F	L.V. T. °F	MIN. MOTOR H.R.	VOLTS	PHASE	MAX. HEIGHT	AMB. WB. °F	MAX. REQ. PUMPING HEAD FT. WATER	TYPE BASIN	REMARKS
1-81	600	95	85	10	460	3	8'-7"	78 °	15	INTEGRAL	PRE-PURCHASE, REFER SPECS
2-81	600	95	85	10	460	3	8'-7"	78 °	15	INTEGRAL	PRE-PURCHASE, REFER SPECS

EXPANSION TANK SCHEDULE

TANK DESIGNATION	CAPACITY GALLONS	MIN. WORKING PRESSURE PSIG
# 1-81	238	125

WATER CHILLING MACHINE SCHEDULE

UNIT DESIG.	CHILLER CAPACITY				CONDENSER CAPACITY				MOTOR CAPACITY				TYPE STARTER	MAX. KW PER TON REFRIG. AT DESIGN	REMARKS	
	GPM	ENT. T. °F	L.V. T. °F	MAX. R.D. FT. WATER	SCALE FACTOR	GPM	ENT. T. °F	L.V. T. °F	MAX. R.D. FT. WATER	SCALE FACTOR	MAX. KW AT. DESIGN COND.	MIN. MOTOR KW				VOLTS
1-81	567	48	40	14.6	0.0005	567	85	94.7	8.8	0.0005	139	224	460	3	FURNISHED W/UNIT - REFER SPECS	TRANE CVHA-032, CENTRIFUGAL, PRE-PURCH. REFER SPECS
2-81	567	48	40	14.6	0.0005	567	85	94.7	8.8	0.0005	139	224	460	3	FURNISHED W/UNIT - REFER SPECS	TRANE CVHA-032, CENTRIFUGAL, PRE-PURCH. REFER SPECS
3-81	90	48	40	27	0.0005	72	85	95	12	0.0005	29.5	40	460	3	FURNISHED W/UNIT - REFER SPECS	TRANE CGWA-030M, OR EQUAL, REFER SPECS

MECHANICAL NOTES - GENERAL:

1. CHS and CHR runouts to individual fan coil units shall be sized as follows:

FAN COIL CFM	RUNOUT SIZE
200	1/2"
300	3/4"
400	3/4"
600	3/4"
800	1"
1000	1"
1200	1-1/4"

2. H.V. & A/C Contractor shall extend condensate drain from each fan coil unit to collector line. Collector line shall extend to vertical drains as indicated. Unless noted otherwise, drains and collector lines shall be sized in accordance with the following table:

NO. OF F.C. UNITS	CONDENSATE DRAIN SIZE
1	Drain connection size but not less than 7/8"
2	1-1/4"
3	1-1/2"
4	2"
5	2"
6	2"
7	2-1/2"
8	2-1/2"
9	3"
10	3"

3. Unless otherwise noted, supply air ducts are to be extended full size from supply connection at fan coil unit to duct transition, turn, or "Tee"; duct from that point to diffuser is to be sized as follows:

CFM	DIFFUSER SIZE	DUCT SIZE
200	10 X 10	12/6
300	12 X 12	14/6
400	15 X 15	16/6
500	15 X 15	18/8
600	18 X 18	20/8
800	18 X 18	20/10
1000	18 X 18	20/10

4. Unless otherwise noted, return air ducts are to be extended full size from rear of fan coil units to transition, turn, or return air grille; duct from transition or turn to return air grille shall be 24" X (depth of duct connection at fan coil unit).

5. Unless otherwise noted, return air grilles for fan coil units mounted above suspended ceiling are to be designation "D" (Refer to air outlet and grille schedule) 22" X 22" filter frame grilles.

6. Refer to Standard Detail 52037 for typical fan coil unit installation above suspended ceiling.

7. Refer to Standard Detail 50238 for enclosed fan coil unit detail.

8. Each fan coil unit is to be individually controlled by own thermostat. Thermostats are to be located as indicated on drawings with thermostat nearest the unit being the one that controls that unit. Contractor shall resolve any questions concerning placement or unit control of thermostats with Engineer prior to installation of thermostat. Thermostats placed on outside walls shall be mounted on 1" insulation board which shall be recessed in new wall furring so that thermostat base is flush with wall surface. All floor mounted and vertical recessed fan coil units are to be provided with thermostat mounted in cabinet.

DEMOLITION NOTES - MECHANICAL:

1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION WORK OF ALL MECHANICAL SYSTEMS NOT UTILIZED IN CONJUNCTION WITH SPECIFIED AND SCHEDULED NEW WORK. EXISTING WORK WHICH OCCURS IN CONCEALED LOCATIONS AND DOES NOT INTERFERE WITH THE NEW WORK MAY BE DISCONNECTED, CAPPED AND ABANDONED IN PLACE. EXISTING WORK WHICH OCCURS IN EXPOSED LOCATIONS OR INTERFERS WITH NEW WORK SHALL BE DISCONNECTED AND REMOVED. NO EQUIPMENT OR DEVICES SHALL BE RENDERED INOPERATIVE OR REMOVED PRIOR TO DISCONTINUED USE OF OR NEED FOR SAID EQUIPMENT OR DEVICES WITHOUT THE EXPRESS CONSENT OF THE ARCHITECT. EQUIPMENT AND DEVICES TO BE REMOVED SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

- A. ALL AREAS
 - ALL EXPOSED PIPING
 - SUPPLY, RETURN AND VENTILATION AIR DUCTS
 - GRILLES, REGISTERS AND DIFFUSERS
 - FAN COIL UNITS
 - RADIATORS
 - CONVECTORS
 - DUCTS IN EXISTING CHASES
- B. SEVENTH FLOOR CEILING SPACE
 - EXISTING 19-1/2" Ø STEEL BOILER FLUE (REFER SHEET MPE-1)
- C. FIFTH FLOOR
 - AIR HANDLING UNITS AND RELATED EQUIPMENT IN EXISTING MECHANICAL ROOM ADJACENT TO STAIR 502.
- D. THIRD FLOOR
 - D-X AIR HANDLING UNIT IN EQUIPMENT CLOSET ADJACENT TO STAIR 302.
- E. COFFEE BAR 207 ROOF (REFER TO NOTE 45, SHEET M-4)
 - TWO (2) AIR COOLED CONDENSERS FOR EXISTING 50 T WATER CHILLERS
 - AIR COOLED CONDENSING UNIT FOR A.H.U. IN THIRD FLOOR CLOSET.
 - AIR COOLED CONDENSING UNIT FOR 7.5 T WATER CHILLER
 - AIR COOLED CONDENSING UNIT FOR WATER CHILLERS IN "EAST" BASEMENT
 - REFRIGERANT RECEIVER
 - REFRIGERANT PIPING
 - RELATED SUPPORTS, STANDS, BRACES, ETC.
- F. EAST BASEMENT
 - STEAM-TO-HOT WATER HEAT EXCHANGER
 - WATER CHILLER
 - TWO RECIPROCATING COMPRESSOR UNITS
 - CHILLED WATER PUMP
 - HOT WATER PUMP
 - STEAM CONDENSATE PUMP
 - STEAM PIPING
 - CHS AND CHR PIPING
 - CONDENSATE DRAIN PIPING
- G. WEST BASEMENT
 - GAS FIRED STEAM BOILER
 - STEAM CONDENSATE PUMP
 - 7.5 T CHILLER
 - TWO (2) 50 TON RECIPROCATING COMPRESSORS
 - AIR HANDLING UNIT
 - CHILLED WATER PUMPS
 - STEAM PIPING
 - STEAM CONDENSATE PIPING
 - GAS PIPING
 - CHS AND CHR PIPING



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FAN COIL UNIT SCHEDULE FIRST FLOOR (UNITS NOT PRE-PURCHASED: REFER SPECIFICATIONS)

UNIT DESIGN	CFM	CAPACITY AT 76/63°F		GPM @ 44°F	PRESS. DROP FI/WATER	MOTOR F.L.A. @ 277V/1Ø	HTR KW.	F.L.A. @ 277V/1Ø	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
1-8-4-1	800	15,800	18,400	4.8	11.6	0.72	4	14.4	CONCEALED, SUSPENDED	3-WAY
1-8-4-2	800	15,800	18,400	4.8	11.6	0.72	4	14.4	CONCEALED, SUSPENDED	2-WAY
1-4-2-3	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-6-4-4	600	11,100	14,300	3.7	15.5	0.59	4	14.4	VERTICAL, RECESSED (1)	2-WAY
1-4-4-5	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	3-WAY
1-4-2-6	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-7	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-8	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-9	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-10	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-11	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-12	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-13	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-14	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-6-4-15	600	12,200	13,800	3.6	18.4	0.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
1-4-2-16	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-17	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-4-18	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	3-WAY
1-4-2-19	400	7,900	9,900	2.6	5.8	0.72	2	7.2	VERTICAL, RECESSED (1)	2-WAY
1-6-4-20	600	12,200	13,800	3.6	18.4	0.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
1-6-4-21	600	12,200	13,800	3.6	18.4	0.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
1-4-4-23	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
1-4-2-24	400	7,900	9,900	2.6	5.8	0.72	2	7.2	VERTICAL RECESSED (2)	2-WAY
1-8-4-25	800	15,800	18,400	4.8	11.6	0.72	4	14.4	CONCEALED, SUSPENDED	2-WAY
1-8-4-26	800	15,800	18,400	4.8	11.6	0.72	4	14.4	CONCEALED, SUSPENDED	3-WAY
1-4-1-27	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
1-4-1-28	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
1-4-1-29	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
1-4-2-30	400	8,800	10,000	2.6	10.1	0.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
1-4-2-31	400	7,900	9,900	2.6	5.8	0.72	2	7.2	VERTICAL, RECESSED (1)	2-WAY

1. VERTICAL, RECESSED UNIT. UNIT TO HAVE INTEGRAL OUTLET AND RETURN GRILLES IN FRONT PANEL. THERMOSTAT FOR UNIT TO BE FACTORY MOUNTED AND WIRED IN ACCESSIBLE POSITION WITHIN CABINET.
2. VERTICAL, RECESSED UNIT WITH STANDARD DUCT CONNECTION IN TOP OF UNIT. THERMOSTAT FOR UNIT TO BE FACTORY MOUNTED AND WIRED IN ACCESSIBLE POSITION WITHIN CABINET.

FAN COIL UNIT SCHEDULE SECOND FLOOR (UNITS NOT PRE-PURCHASED: REFER SPECIFICATIONS)

UNIT DESIGN	CFM	CAPACITY AT 75/63°F		GPM @ 44°F	PRESS. DROP FI/WATER	MOTOR F.L.A. @ 277V/1Ø	HTR KW.	F.L.A. @ 277V/1Ø	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
2-3-2-1	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	3-WAY
2-3-2-2	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-3-2-3	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-3-2-4	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-4-5	600	11,100	14,300	3.7	15.5	0.59	4	14.4	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-4-6	600	11,100	14,300	3.7	15.5	0.59	4	14.4	EXPOSED, FLOOR MOUNTED	2-WAY
2-2-1-7	200	4,200	5,100	1.3	2.2	0.61	1	3.6	VERTICAL RECESSED (1)	2-WAY
2-4-2-8	400	7,900	9,900	2.6	5.8	0.72	2	7.2	VERTICAL, RECESSED	2-WAY
2-3-2-9	300	6,200	7,900	2.1	6.9	0.72	2	7.2	VERTICAL, RECESSED	3-WAY
2-3-2-10	300	6,200	7,900	2.1	6.9	0.72	2	7.2	VERTICAL, RECESSED	2-WAY
2-3-2-11	300	6,200	7,900	2.1	6.9	0.72	2	7.2	VERTICAL, RECESSED	2-WAY
2-2-1-12	200	4,200	5,100	1.3	2.2	0.61	1	3.6	VERTICAL, RECESSED	2-WAY
2-3-2-13	300	6,200	7,900	2.1	6.9	0.72	2	7.2	VERTICAL, RECESSED	3-WAY
2-3-2-14	300	6,200	7,900	2.1	6.9	0.72	2	7.2	VERTICAL, RECESSED	2-WAY
2-2-1-15	200	4,200	5,100	1.3	2.2	0.61	1	3.6	VERTICAL, RECESSED	2-WAY
2-3-2-16	300	6,200	7,900	2.1	6.9	0.72	2	7.2	VERTICAL, RECESSED	2-WAY
2-4-2-17	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-2-1-18	200	4,200	5,100	1.3	2.2	0.61	1	3.6	EXPOSED, FLOOR MOUNTED	3-WAY
2-4-2-19	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-2-20	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-2-21	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-22	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-23	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-24	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-25	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	3-WAY
2-3-2-26	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-3-2-27	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-3-2-28	300	6,200	7,900	2.1	6.9	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-2-29	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-2-30	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-1-31	400	7,900	9,900	2.6	5.8	0.72	1	3.6	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-1-32	400	7,900	9,900	2.6	5.8	0.72	1	3.6	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-1-33	400	7,900	9,900	2.6	5.8	0.72	1	3.6	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-34	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-2-35	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-36	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-6-2-37	600	11,100	14,300	3.7	15.5	0.59	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-4-2-38	400	7,900	9,900	2.6	5.8	0.72	2	7.2	EXPOSED, FLOOR MOUNTED	2-WAY
2-3-1-39	300	6,200	7,900	2.1	6.9	0.72	1	3.6	EXPOSED, FLOOR MOUNTED	2-WAY

- NOTE: ALL VERTICAL RECESSED UNITS TO HAVE INTEGRAL OUTLET AND RETURN GRILLES IN FRONT PANEL WITH EXCEPTION OF 2-6-4-6.
- ALL FLOOR MOUNTED AND VERTICAL, RECESSED FAN COIL UNITS ARE TO BE FURNISHED WITH A FACTORY MOUNTED AND WIRED THERMOSTAT IN AN ACCESSIBLE POSITION WITHIN CABINET.
1. UNIT #2-6-4-6 TO HAVE STANDARD DUCT CONNECTION IN TOP OF UNIT IN LIEU OF INTEGRAL OUTLET GRILLE AS SPECIFIED FOR OTHER UNITS.

FAN COIL UNIT SCHEDULE THIRD FLOOR (UNITS NOT PRE-PURCHASED: REFER SPECIFICATIONS)

UNIT DESIGN	CFM	CAPACITY AT 76/63°F		GPM @ 44°F	PRESS. DROP FI/WATER	MOTOR F.L.A. @ 277V/1Ø	HTR KW.	F.L.A. @ 277V/1Ø	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
3-10-6-1	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
3-10-6-2	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
3-4-4-3	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-6-4-4	600	12,200	13,800	3.6	18.4	0.65	4	14.4	CONCEALED, SUSPENDED (1)	2-WAY
3-10-6-5	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
3-4-4-6	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-4-1-7	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
3-4-1-8	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
3-4-4-9	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-4-4-10	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-4-1-11	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
3-4-1-12	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
3-4-4-13	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-4-4-14	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-4-1-15	400	8,800	10,000	2.6	10.1	0.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
3-10-4-16	1000	19,900	23,000	6	8	1.08	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-10-4-17	1000	19,900	23,000	6	8	1.08	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-10-4-18	1000	19,900	23,000	6	8	1.08	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-10-4-19	1000	19,900	23,000	6	8	1.08	4	14.4	CONCEALED, SUSPENDED	3-WAY
3-8-6-20	800	15,800	18,400	4.8	11.6	0.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
3-4-4-21	400	8,800	10,000	2.6	10.1	0.52	4	14.4	CONCEALED, SUSPENDED	2-WAY
3-8-6-22	800	15,800	18,400	4.8	11.6	0.72	6	21.7	CONCEALED, SUSPENDED (2)	2-WAY
3-8-6-23	800	15,800	18,400	4.8	11.6	0.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
3-8-6-24	800	15,800	18,400	4.8	11.6	0.72	6	21.7	CONCEALED, SUSPENDED (3)	2-WAY
3-6-4-25	600	12,200	13,800	3.6	18.4	0.65	4	14.4	CONCEALED, SUSPENDED (4)	3-WAY
3-8-6-26	800	15,800	18,400	4.8	11.6	0.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
3-10-6-27	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY

1. USE PREPURCHASED UNIT # 7-6-4-34
2. USE PREPURCHASED UNIT # 7-8-6-22
3. USE PREPURCHASED UNIT # 7-8-b-23
4. USE PREPURCHASED UNIT # 7-8-6-24

FAN COIL UNIT SCHEDULE FOURTH FLOOR (PRE-PURCHASED UNITS: REFER SPECIFICATIONS)

UNIT DESIGN	CFM	CAPACITY AT 76/63°F		GPM @ 44°F	PRESS. DROP FI/WATER	MOTOR F.L.A. @ 277V/1Ø	HTR KW.	F.L.A. @ 277V/1Ø	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
4-10-6-1	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
4-10-6-2	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
4-6-2-3	600	12,200	13,800	3.6	18.4	.65	2	7.2	CONCEALED, SUSPENDED	2-WAY
4-10-6-4	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
4-6-4-5	600	12,200	13,800	3.6	18.4	.65	4	14.4		

FAN COIL UNIT SCHEDULE FIFTH FLOOR (PRE-PURCHASED UNITS: REFER SPECIFICATIONS)

UNIT DESIGN	CFM	CAPACITY AT 76/63°F		GPM @ 44°F	PRESS. DROP FT./WATER	MOTOR F.L.A. @ 277V.1φ	HTR KW.	F.L.A. @ 277V.1φ	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
5-10-6-1	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
5-10-6-2	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-6-2-3	600	12,200	13,800	3.6	18.4	.65	2	7.2	CONCEALED, SUSPENDED	2-WAY
5-10-6-4	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
5-6-4-5	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
5-6-4-6	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
5-6-4-7	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
5-6-4-8	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
5-6-4-9	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
5-6-4-10	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
5-8-6-11	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-8-7-12	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-8-6-13	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-4-4-14	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED	3-WAY
5-6-6-15	600	12,200	13,800	3.6	18.4	.65	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-6-6-16	600	12,200	13,800	3.6	18.4	.65	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-8-6-17	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-8-6-18	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-10-6-19	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
5-4-1-20	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	3-WAY
5-4-1-21	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
5-4-1-22	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
5-4-1-23	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
5-4-1-24	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED (1)	2-WAY
5-4-1-25	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED (1)	2-WAY
5-4-1-26	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED (1)	2-WAY
5-4-1-27	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED (1)	2-WAY

1. UNIT NOT PREPURCHASED; UNIT TO BE PURCHASED AND INSTALLED BY MECHANICAL CONTRACTOR

FAN COIL UNIT SCHEDULE SIXTH FLOOR (PRE-PURCHASED UNITS: REFER SPECIFICATIONS)

UNIT DESIGN	CFM	CAPACITY AT 76/63°F		GPM @ 44°F	PRESS. DROP FT./WATER	MOTOR F.L.A. @ 277V.1φ	HTR KW.	F.L.A. @ 277V.1φ	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
6-10-6-1	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
6-10-6-2	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-6-2-3	600	12,200	13,800	3.6	18.4	.65	2	7.2	CONCEALED, SUSPENDED	2-WAY
6-10-6-4	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
6-6-4-5	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
6-6-4-6	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
6-6-4-7	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
6-6-4-8	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
6-6-4-9	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
6-6-4-10	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
6-8-6-11	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-8-6-12	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-8-6-13	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-4-4-14	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED	3-WAY
6-6-6-15	600	12,200	13,800	3.6	18.4	.65	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-6-6-16	600	12,200	13,800	3.6	18.4	.65	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-8-6-17	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-8-6-18	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-10-6-19	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
6-4-1-20	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	3-WAY
6-4-1-21	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
6-4-1-22	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
6-4-1-23	400	8,800	10,000	2.6	10.1	.52	1	3.6	CONCEALED, SUSPENDED	2-WAY
6-6-4-24	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED (1)	2-WAY
6-4-1-25	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED (1)	2-WAY

1. UNIT NOT PREPURCHASED; UNIT TO BE PURCHASED AND INSTALLED BY MECHANICAL CONTRACTOR

FAN COIL UNIT SCHEDULE - SEVENTH FLOOR (PRE-PURCHASED UNITS: REFER SPECIFICATIONS)

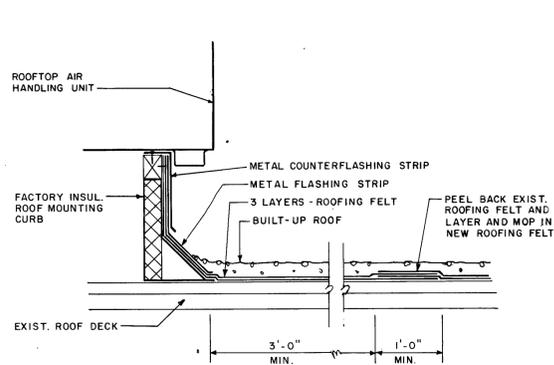
UNIT DESIGN	CFM	CAPACITY AT 76/63°F		GPM @ 44°F	PRESS. DROP FT./WATER	MOTOR F.L.A. @ 277V.1φ	HTR KW.	F.L.A. @ 277V.1φ	CABINETS	CONTROL VALVE
		SENSIBLE	TOTAL							
7-8-6-1	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	3-WAY
7-8-6-2	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
7-8-6-3	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
7-6-4-4	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-5	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	3-WAY
7-6-4-6	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	3-WAY
7-6-4-7	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-8	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-9	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-10	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-11	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-12	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-13	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-10-6-14	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
7-10-6-15	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	3-WAY
7-8-4-16	800	15,800	18,400	4.8	11.6	.72	4	14.4	CONCEALED, SUSPENDED	3-WAY
7-6-4-17	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	3-WAY
7-6-4-18	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	3-WAY
7-8-6-19	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
7-6-4-20	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-21	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-8-6-22	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED (1)	2-WAY
7-8-6-23	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED (2)	2-WAY
7-8-6-24	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED (3)	2-WAY
7-8-6-25	800	15,800	18,400	4.8	11.6	.72	6	21.7	CONCEALED, SUSPENDED	2-WAY
7-6-4-26	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-10-6-27	1000	19,900	23,000	6	8	1.08	6	21.7	CONCEALED, SUSPENDED	2-WAY
7-6-4-28	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-29	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-4-2-30	400	8,800	10,000	2.6	10.1	.52	2	7.2	CONCEALED, SUSPENDED	2-WAY
7-6-4-31	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-32	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-33	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED	2-WAY
7-6-4-34	600	12,200	13,800	3.6	18.4	.65	4	14.4	CONCEALED, SUSPENDED (4)	2-WAY
7-12-6-35	1200	23,600	27,900	7.2	12.6	1.3	6	21.7	CONCEALED, SUSPENDED (5)	3-WAY
7-12-6-36	1200	23,600	27,900	7.2	12.6	1.3	6	21.7	CONCEALED, SUSPENDED (5)	2-WAY
7-4-4-37	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED (5)	2-WAY
7-4-4-38	400	8,800	10,000	2.6	10.1	.52	4	14.4	CONCEALED, SUSPENDED (5)	2-WAY

1. UNIT # 7-8-6-22 NOT TO BE INSTALLED ON 7TH FLOOR; UNIT TO BE INSTALLED ON 3RD FLOOR AND DESIGNATED F.C. # 3-8-6-22.
 2. UNIT # 7-8-6-23 NOT TO BE INSTALLED ON 7TH FLOOR; UNIT TO BE INSTALLED ON 3RD FLOOR AND DESIGNATED F.C. # 3-8-6-23.
 3. UNIT # 7-8-6-24 NOT TO BE INSTALLED ON 7TH FLOOR; UNIT TO BE INSTALLED ON 3RD FLOOR AND DESIGNATED F.C. # 3-8-6-24.
 4. UNIT # 7-6-4-34 NOT TO BE INSTALLED ON 7TH FLOOR; UNIT TO BE INSTALLED ON 3RD FLOOR AND DESIGNATED F.C. # 3-6-4-4.
 5. UNIT NOT PREPURCHASED; UNIT TO BE PURCHASED AND INSTALLED BY MECHANICAL CONTRACTOR.

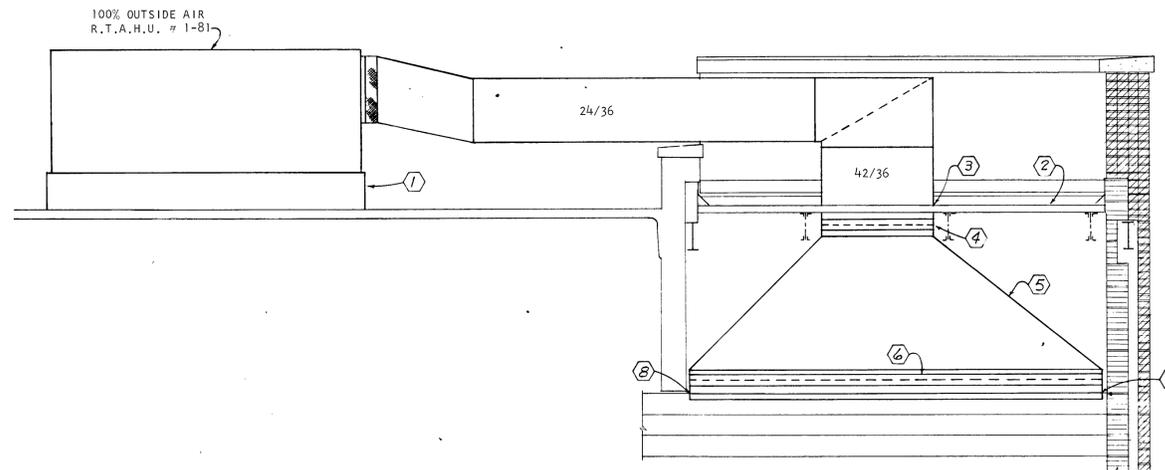
EXHAUST FAN SCHEDULE

FAN DESIGNATION	TYPE	CFM	S.R (IN. WATER)	MAX. TIP SPEED FEET/MIN	DRIVE	H.P.	VOLTS	PHASE	EQUAL TO	REMARKS
1-1-81	CENTRIFUGAL	132	0.250	-	DIRECT	1/50	120	1	GREENHECK SP-17	WITH BACK DRAFT DAMPER
1-2-81	CENTRIFUGAL	132	0.250	-	DIRECT	1/50	120	1	GREENHECK SP-17	
1-3-81	CENTR. IN-LINE	985	0.250	3043	DIRECT	1/20	120	1	GREENHECK S00-9-G	WITH BACK DRAFT DAMPER
1-4-81	CENTRIFUGAL	465	0.250	3677	DIRECT	1/20	120	1	GREENHECK SW-9-D	** SIDEWALL
1-5-81	CENTRIFUGAL	9336	0.250	4471	BELT	1-1/2	460	3	GREENHECK CBE-30-15	***
2-1-81	CENTRIFUGAL	143	0.125	2406	DIRECT	1/80	120	1	GREENHECK CE-6-D	*
2-2-81	CENTRIFUGAL	538	0.125	3083	DIRECT	1/30	120	1	GREENHECK CE-9-G	
7-1-81	CENTRIFUGAL	285	0.250	2941	DIRECT	1/40	120	1	GREENHECK CE-7.5-D	REFER NOTE 1
7-2-81	CENTRIFUGAL	455	0.250	2505	DIRECT	1/20	120	1	GREENHECK CE-10-C	REFER NOTE 4
7-3-81	CENTRIFUGAL	285	0.250	2941	DIRECT	1/40	120	1	GREENHECK CE-7.5-D	W/CURB & BACK DRAFT DAMPER
7-4-81	CENTRIFUGAL	60	0.10	-	DIRECT	-	120	1	PRYNE H5040-SW	REFER NOTE 2
7-5-81	CENTRIFUGAL	6909	0.375	3793	BELT	1	208	3	GREENHECK CBE-30-10	REFER NOTE 3

* FAN TO BE FURNISHED WITH PREFAB CURB AND AUTOMATIC BACKDRAFT DAMPER.
 ** FAN TO BE FURNISHED WITH TWO SPEED MANUAL STARTER,

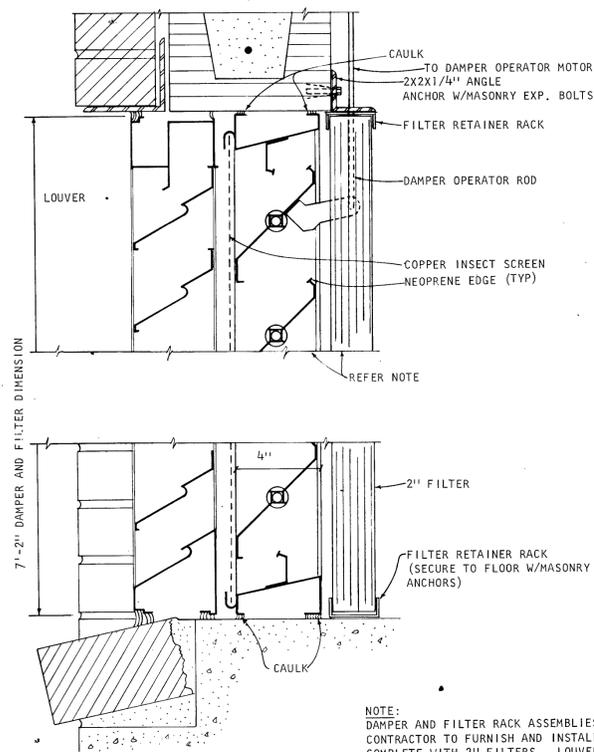


TYPICAL ROOF CURB MOUNTING DETAIL
NO SCALE



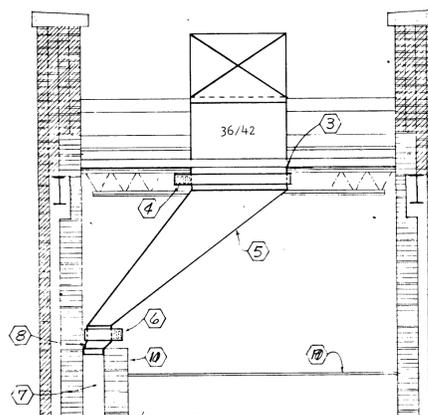
ROOFTOP AIR HANDLING UNIT I-81

SECTION 3
SCALE: 3/8"=1'-0"



INTAKE DAMPER
SECTION 1
SCALE: 3/8"=1'-0"

NOTE:
DAMPER AND FILTER RACK ASSEMBLIES TO BE 7'-2" X 3'-4". MECHANICAL CONTRACTOR TO FURNISH AND INSTALL DAMPER AND FILTER RACK ASSEMBLIES, COMPLETE WITH 2" FILTERS. LOUVER AND OTHER WORK SHOWN TO BE BY GENERAL CONTRACTOR. REFER TO ARCHITECTURAL SPECIFICATIONS, SECTION D, PAGE 5A8.

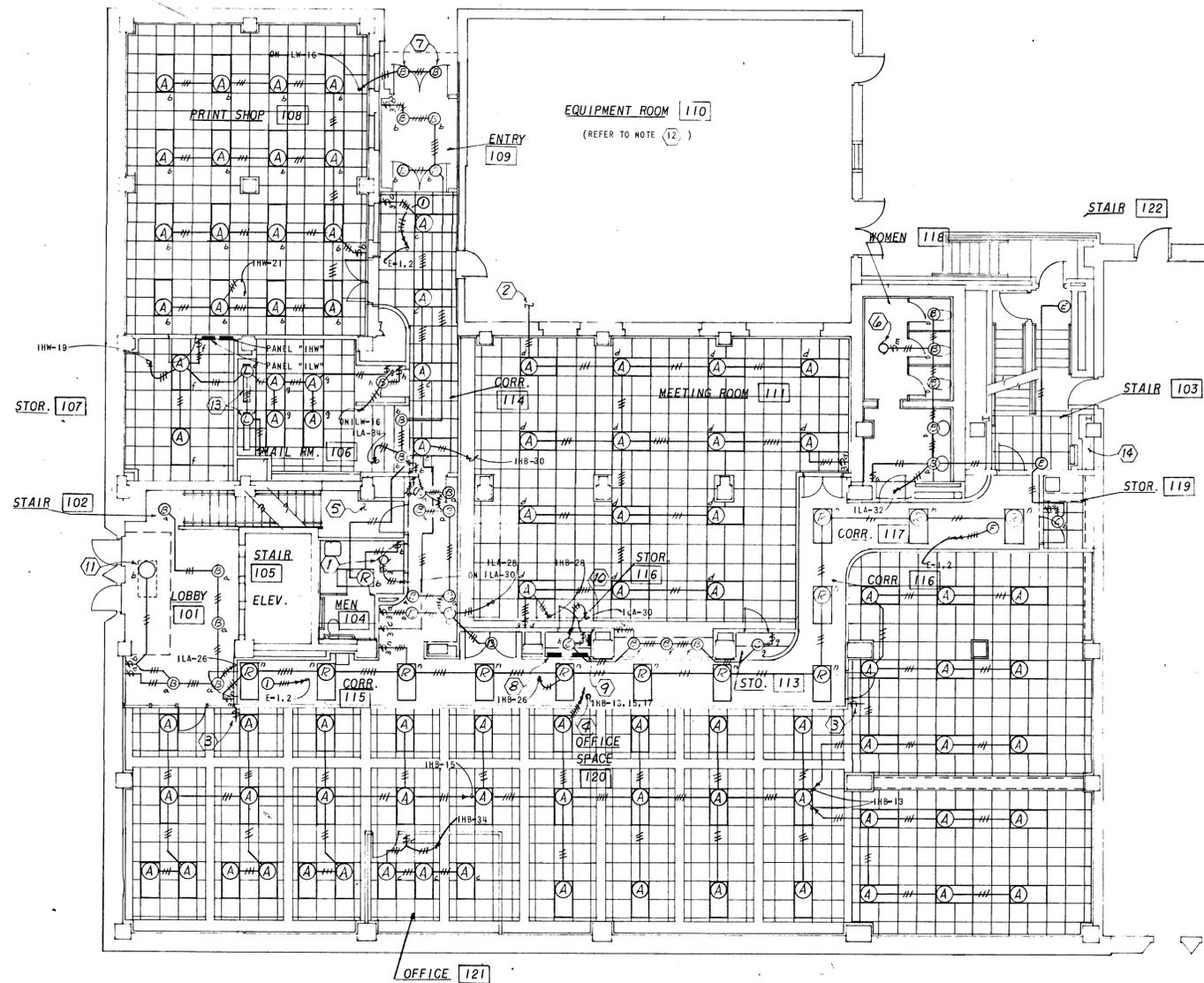


DUCT DETAIL - STAIR 703

SECTION 2
SCALE: 3/8"=1'-0"

NOTES INDICATED BY NUMBER IN \square :

1. FACTORY CURB TO BE FURNISHED WITH A.H.U. REFER TO "TYPICAL ROOF CURB MOUNTING DETAIL", THIS SHEET FOR MOUNTING REQUIREMENTS.
2. ROOF DECK AND BUILT-UP ROOF OVER STAIR 703. REFER TO ARCHITECTURAL SHEET A-14.
3. DUCT THROUGH ROOF. R.S.D. 50920.
4. FIRE DAMPER. R.S.D. 50060.
5. TRANSITION FROM 36/42 DUCT TO 9"X13'-0" FIRE DAMPER.
6. 9"X13'-0" FIRE DAMPER TO BE INSTALLED AT TOP OF 9" (D) VENTILATION AIR CHASE IN STAIR.
7. 9" (D) VENTILATION AIR CHASE IN STAIR. REFER NOTE 35, SHEET M-8.
8. FLANGE AND SEAL DUCT AT TOP OF CHASE SO AS TO PROVIDE AIR TIGHT CONNECTION TO CHASE.
9. SUSPENDED CEILING OVER STAIR 703.
10. TOP COURSE OF CMU FOR INSIDE WALL OF CHASE; REFER SHEET A-14.



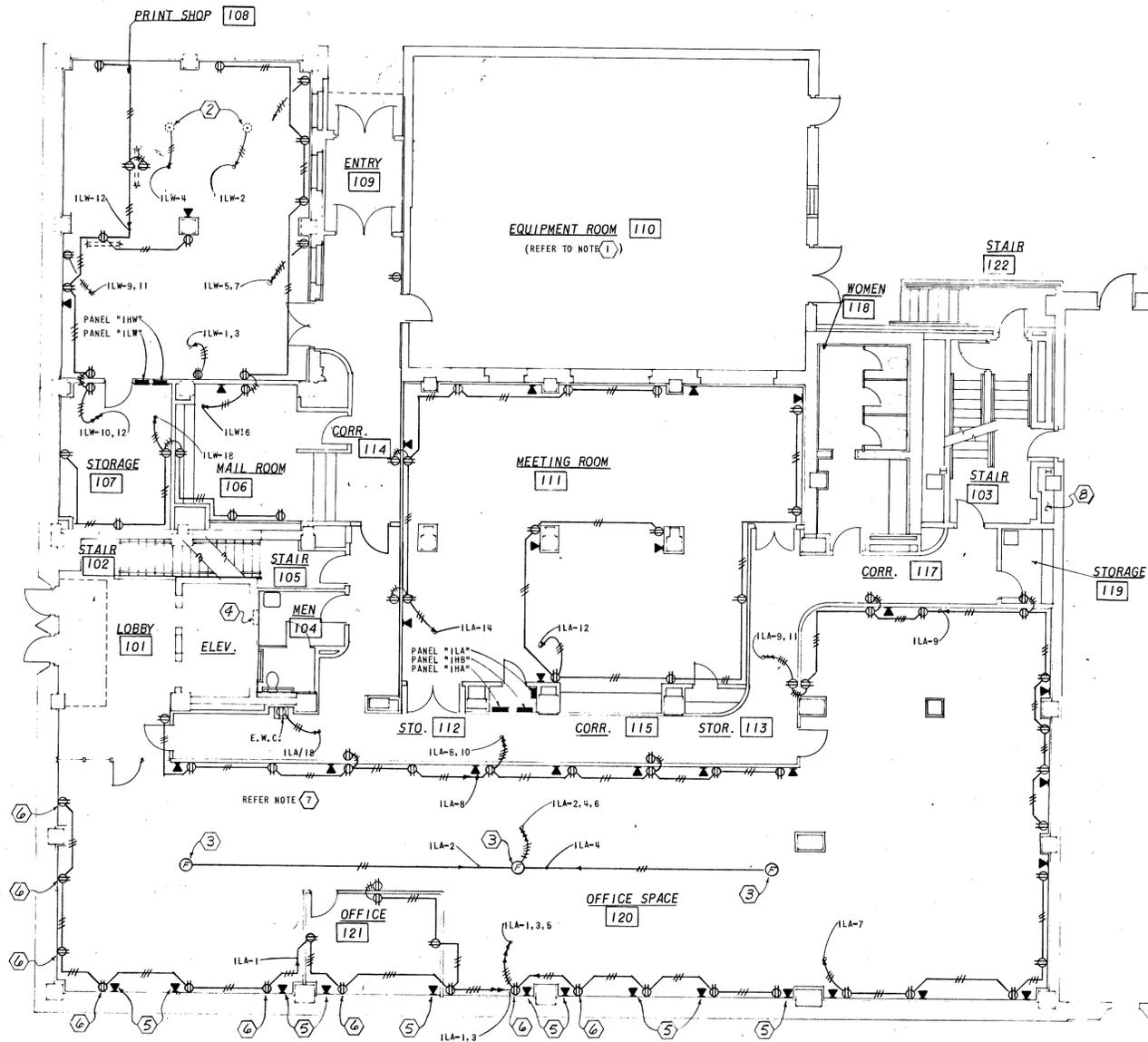
FIRST FLOOR ELECTRICAL PLAN - LIGHTING
 SCALE: 1/8" = 1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.

- NOTES INDICATED BY NUMBER IN 12:
1. TOILET EXHAUST FAN # 1-1-81. CONTRACTOR TO FURNISH AND INSTALL POWER CONTACTOR WITH 277 VOLT COIL WITH FAN. CONTACTOR TO BE CONNECTED SO THAT ITS COIL IS ENERGIZED WHEN 277 VOLT LIGHT FIXTURE SWITCH "b" IS CLOSED. POWER CONTACTS OF CONTACTOR TO BE CONNECTED TO CIRCUIT 1LA-30.
 2. CIRCUIT TO BE EXTENDED TO EXHAUST FAN # 1-3-81. CONTRACTOR TO FURNISH AND INSTALL POWER CONTACTOR WITH 277 VOLT COIL AT EXHAUST FAN. CONTACTOR TO BE CONNECTED SO THAT COIL IS ENERGIZED WHEN 3-WAY SWITCHES "a" ARE OPERATED TO TURN ON LIGHTS IN MEETING ROOM 111. REFER TO EQUIPMENT ROOM 110 MECHANICAL AND ELECTRICAL PLANS FOR LOCATION AND CIRCUITING OF EXHAUST FAN # 1-3-81. ONE OF TWO MOMENTARY CONTACT WALL SWITCHES CONTROLLING LIGHTING CONTACTOR "a".
 3. SWITCHED BY LIGHTING CONTACTOR "a". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 4. EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL(S) AND CIRCUIT(S) FEEDING LIGHTS. CONTRACTOR TO FURNISH AND INSTALL WIRING AND DEVICES AS REQUIRED TO CONNECT CIRCUIT(S) TO SPARE BREAKER IN NEAREST NEW 120/208V PANEL(S), MAINTAINING SERVICE TO LIGHTS.
 5. EXHAUST FAN # 1-1-81. FAN TO BE CONTROLLED BY SWITCH FOR "a" FIXTURES.
 6. ENTRANCE FIXTURES TO BE CONTROLLED BY PHOTOCELL MOUNTED ON ROOF.
 7. PANEL "11A"
 8. PANEL "11B"
 9. PANEL "11C"
 10. PANEL "11H"
 11. EXISTING FIXTURE (SUSPENDED FROM SECOND FLOOR CEILING) TO BE REUSED AT SAME LOCATION. ELECTRICAL CONTRACTOR TO REMOVE AND REINSTALL FIXTURE AS REQUIRED BY GENERAL CONSTRUCTION.
 12. REFER TO EQUIPMENT ROOM ELECTRICAL PLAN FOR LIGHTING REQUIREMENTS IN EQUIPMENT ROOM.
 13. FIXTURES TO BE MOUNTED ON BOTTOM SIDE OF UPPER CABINETS IN MAIL ROOM 106. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
 14. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.

WILLIAMS, TIPPETT & ASSOC., INC.
 CONSULTING ENGINEERS
 ABILENE, TEXAS

RENOVATION
 BUILDING UTILITIES COMPANY
 WEST TEXAS
 ABILENE, TEXAS



**FIRST FLOOR ELECTRICAL PLAN-POWER-
CONVENIENCE & TELEPHONE OUTLETS**

SCALE: 1/8"=1'-0"

NOTES:

- *1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
5. REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
6. REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
7. REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.

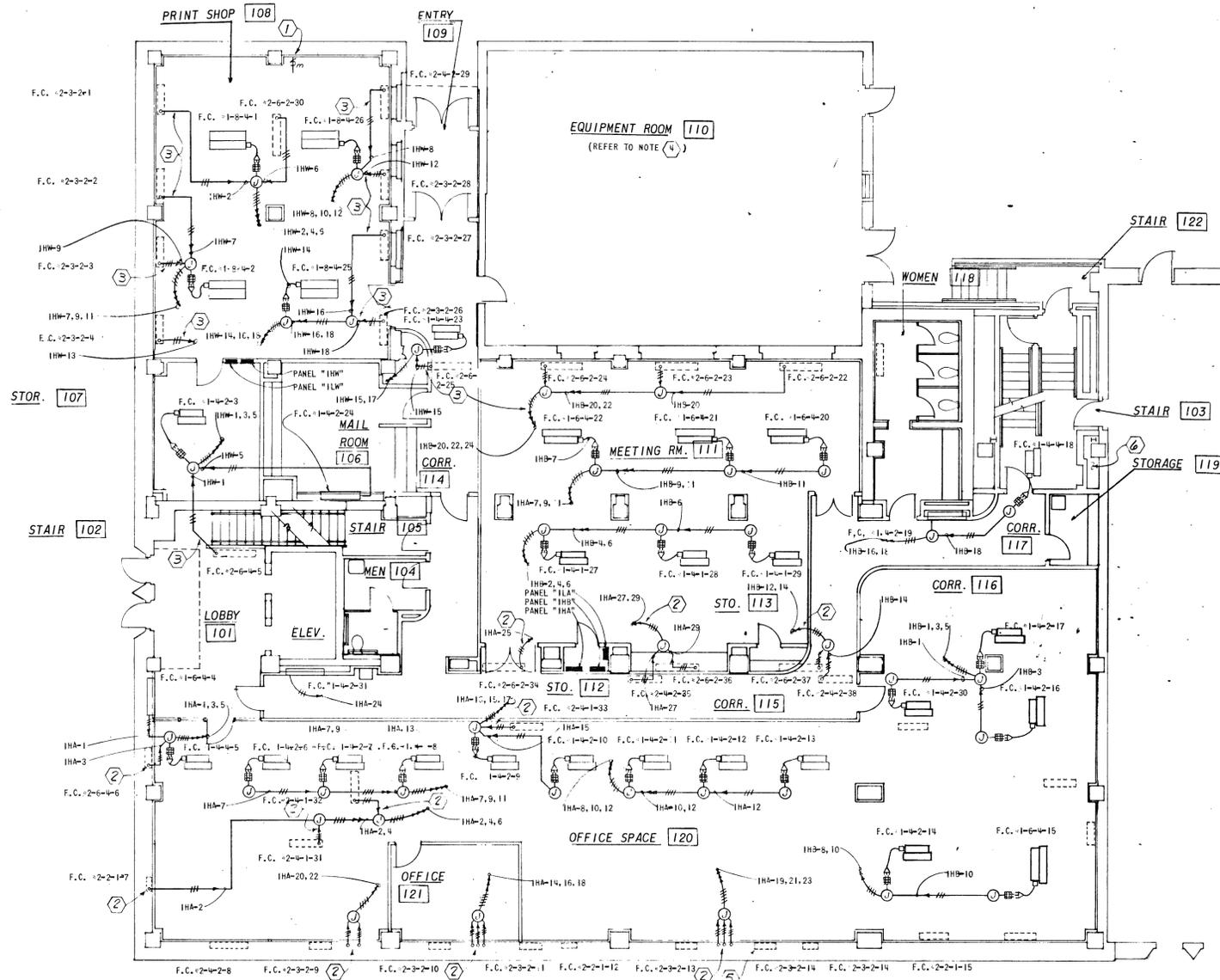
NOTES AS INDICATED BY NUMBER IN ○ :

1. REFER TO EQUIPMENT ROOM ELECTRICAL PLAN FOR POWER REQUIREMENTS IN EQUIPMENT ROOM.
2. EXISTING FLOOR OUTLETS. OUTLETS TO BE RE-FED AS INDICATED.
3. FUTURE OFFICE POWER J-BOX. LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
4. EXISTING TELEPHONE CABINET TO BE RETAINED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR MODIFYING POSITIONING OF PANEL AS REQUIRED BY MODIFICATIONS TO TLT. WALL. RESPONSIBILITY SHALL INCLUDE REROUTING AND REPOSITIONING OF CABLES AND CONDUIT. CONTRACTOR SHALL COORDINATE TELEPHONE PANEL RELATED WORK WITH SOUTHWESTERN BELL TELEPHONE CO. AND PAY ANY CHARGES FROM SWB RELATED TO SAID WORK.
5. THE REQUIRED 3/4" CONDUIT FROM TELEPHONE OUTLET BOX TO CEILING SPACE SHALL BE INSTALLED IN WALL SPACE BEHIND OUTLET BOX AND EXTENDED UPWARD. OFFSET AS REQUIRED AND ROUTED THRU A PRE-CUT OPENING IN THE NEW 2ND FLOOR STRUCTURAL BEAM. REFER TO SHEET S-5 FOR LOCATION OF OPENINGS; REFER TO SECTION 4, SHEET A-13 FOR SECTION AT SOUTH WALL. CONDUIT SHALL BE FURNISHED WITH PULL WIRE AND PROPERLY TERMINATED FOR INSTALLATION OF TELEPHONE CABLE.
6. PRE-CUT OPENINGS IN NEW 2ND FLOOR STRUCTURAL BEAMS ARE TO BE USED FOR ROUTING CONDUITS FROM OUTLETS TO CEILING SPACE WHERE REQUIRED. REFER TO SHEET S-2 FOR LOCATION OF OPENINGS; REFER TO SECTION 4, SHEET A-13 FOR WALL SECTION.
7. REFER TO SHEET S-2 AND SHEET A-15 FOR INFORMATION CONCERNING NEW BEAMS AND CEILING IN OFFICE SPACE 120. CIRCUITS TO BE INSTALLED IN CEILING SPACE IN THIS AREA SHALL BE ROUTED THRU PRE-CUT BEAM OPENINGS AND/OR THRU SPACES BETWEEN BEAMS AND 2ND FLOOR.
8. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.

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FIRST FLOOR ELECTRICAL PLAN-POWER-FAN COIL UNITS
 SCALE: 1/8"=1'-0"

NOTES:

1. REFER TO 'ELECTRICAL NOTES-GENERAL', SHEET E-28.
2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
5. REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
6. REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
7. REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.

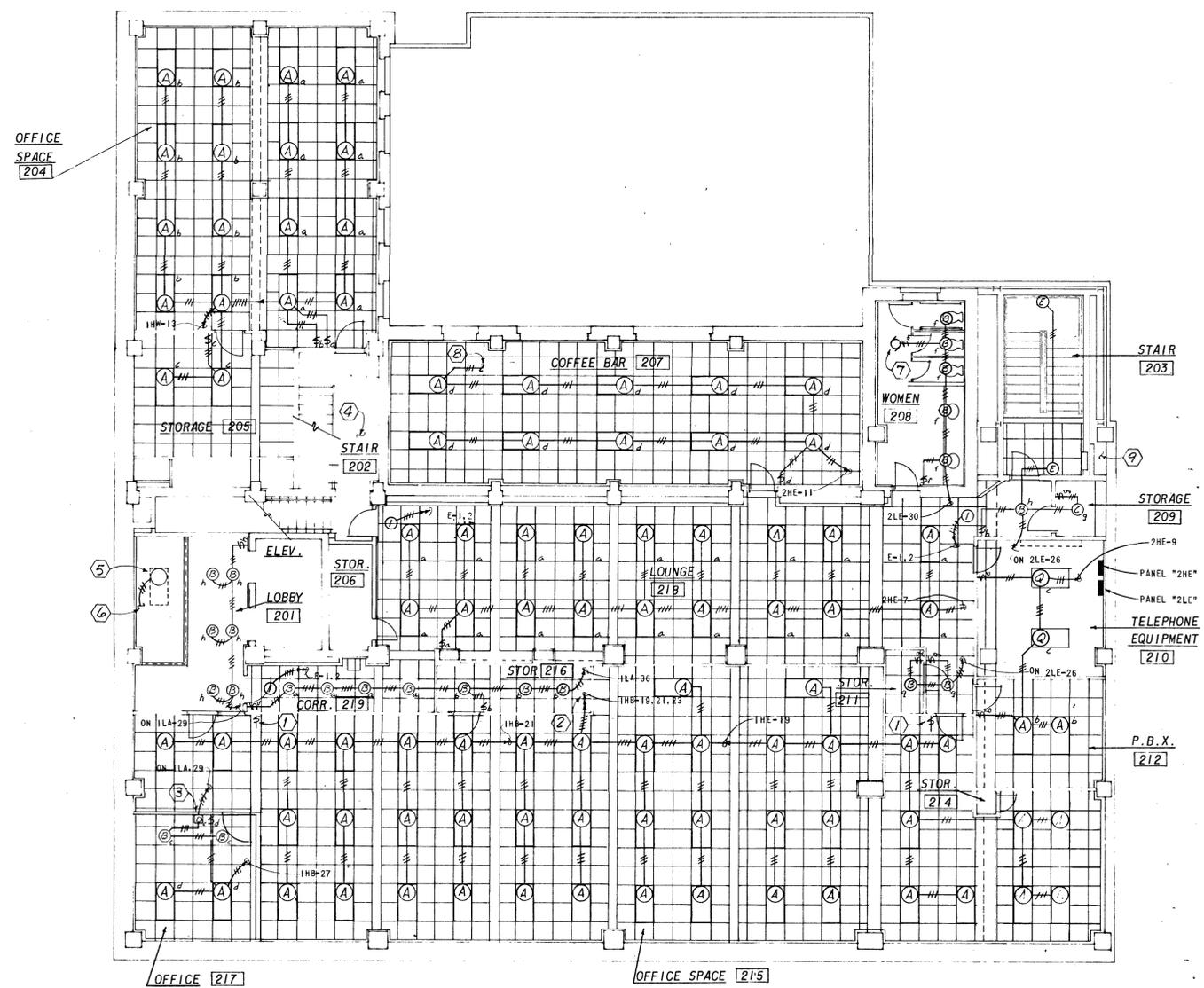
NOTES INDICATED BY NUMBER IN \square :

1. TWO SPEED MANUAL STARTER SWITCH FOR EXHAUST FAN # 1-4-81. REFER TO FIRST FLOOR AIR CONDITIONING PLAN AND MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT ROOM 111 FOR LOCATION AND CIRCUITING OF FAN.
2. CIRCUITS FROM SECOND FLOOR FAN COIL UNITS. REFER TO SECOND FLOOR POWER PLAN, SHEET E-6. CIRCUITS TO BE ROUTED IN 1ST FLOOR CEILING SPACE THRU PRE-CUT BEAM OPENINGS AND SPACES BETWEEN BEAMS AND SECOND FLOOR. REFER TO SHEET S-2 FOR BEAM OPENING LOCATIONS AND SIZES.
3. CIRCUITS FROM 2ND FLOOR FAN COIL UNITS. REFER TO SECOND FLOOR POWER PLAN. CIRCUITS TO BE ROUTED IN FIRST FLOOR CEILING SPACE.
4. REFER TO EQUIPMENT ROOM ELECTRICAL PLAN FOR POWER REQUIREMENTS IN EQUIPMENT ROOM.
5. INDICATED 2ND FLOOR FAN COIL UNIT (TYPICAL).
6. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.

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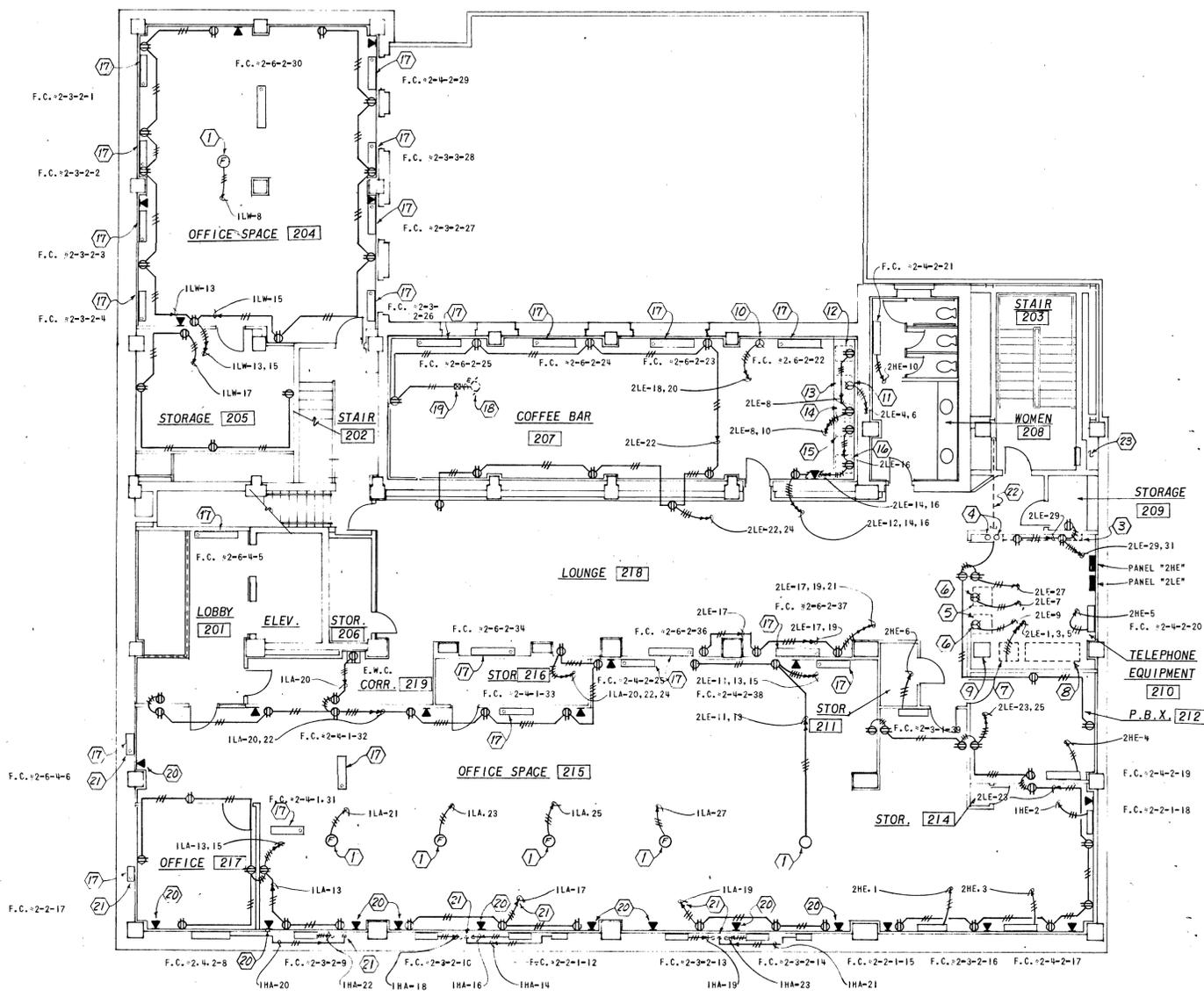


- NOTES INDICATED BY NUMBER IN :
1. ONE OF TWO MOMENTARY CONTACT WALL SWITCHES CONTROLLING LIGHTING CONTACTOR "C".
 2. SWITCHED BY LIGHTING CONTACTOR "C". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN STORAGE 216 CEILING SPACE.
 3. PROVIDE AND INSTALL HUNT # A-600 WALL BOX DIMMER.
 4. EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL AND CIRCUIT FEEDING LIGHTS; CONTRACTOR TO FURNISH WIRING AND DEVICES AS REQUIRED TO SERVE LIGHTS FROM SPARE BREAKER IN NEAREST NEW 120/208 V PANEL.
 5. EXISTING FIXTURE TO BE REUSED AT SAME LOCATION. ELECTRICAL CONTRACTOR TO REMOVE AND REINSTALL FIXTURE AS REQUIRED BY GENERAL CONSTRUCTION.
 6. REFER TO FIRST FLOOR LIGHTING PLAN FOR CONTINUATION.
 7. EXHAUST FAN # 2-1-81. REFER TO EXHAUST FAN SCHEDULE. EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH FOR "F" FIXTURES.
 8. EXTEND AND CONNECT CIRCUIT TO CONTACTOR FOR EXHAUST FAN # 2-2-81. REFER TO "SECOND FLOOR ELECTRICAL PLAN-POWER".
 9. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



SECOND FLOOR ELECTRICAL PLAN-LIGHTING
SCALE: 1/8"=1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.

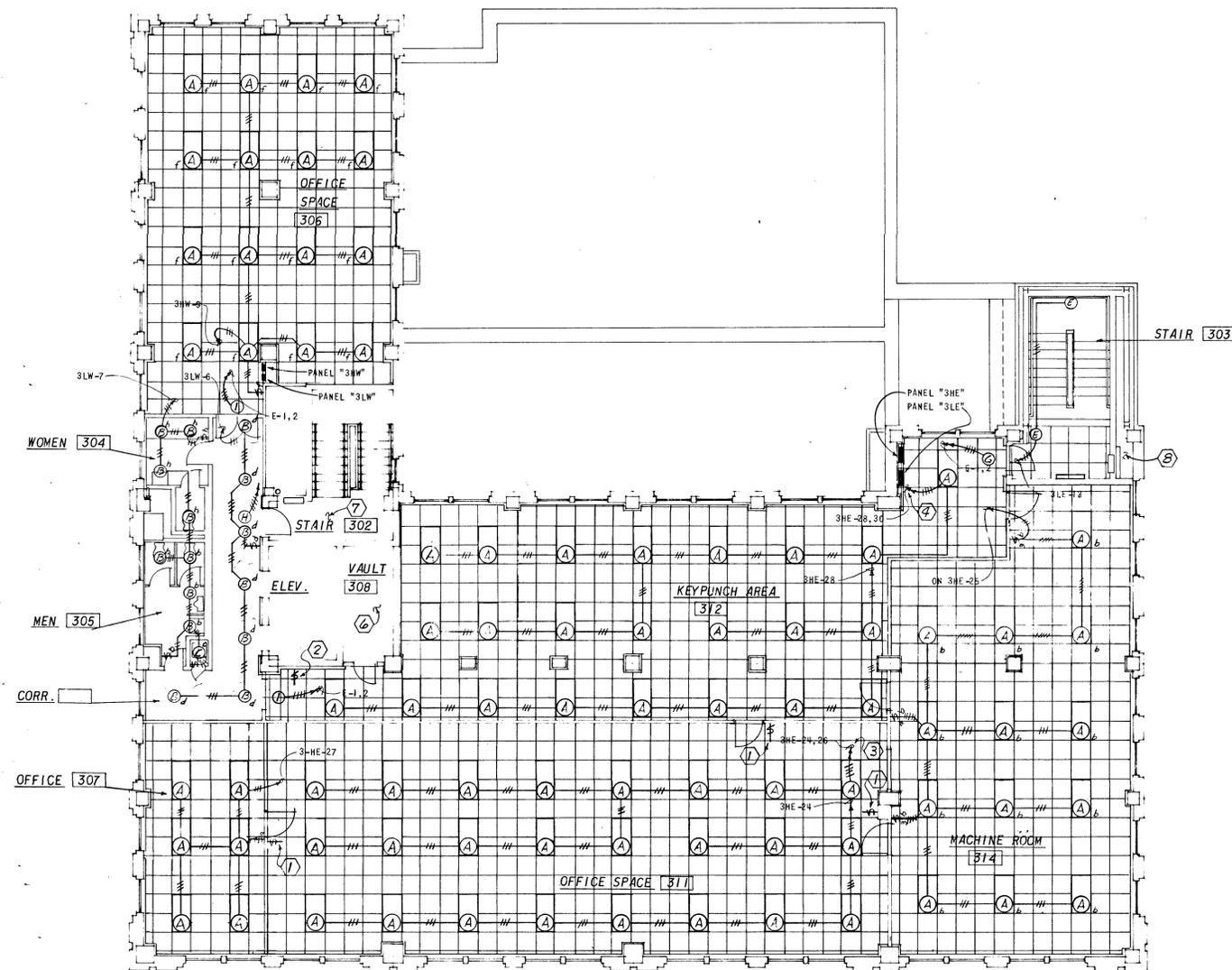


- NOTES AS INDICATED BY NUMBER IN :
- FUTURE OFFICE POWER J-BOX. MOUNT IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
 - DELETED
 - EXISTING MAIN TELEPHONE TERMINAL BOARD TO REMAIN IN PLACE.
 - ELECTRICAL CONTRACTOR TO PROVIDE 2-3" CONDUITS THRU SECOND FLOOR TO PROVIDE ACCESS TO 1ST FLOOR CEILING SPACE FOR ROUTING OF TELEPHONE CABLES TO OUTLETS. REFER SHEET E-21.
 - "DIMENSION" TELEPHONE CABINETS. THESE CABINETS PRESENTLY LOCATED IN AREA TO BE PBX 212. CABINETS TO BE RELOCATED BY SWB PERSONNEL. ELECTRICAL CONTRACTOR TO COORDINATE ACTIVITIES IN THIS AREA WITH SWB.
 - ELECTRICAL CONTRACTOR SHALL VERIFY RATING AND TYPE OF 120V SIMPLEX RECEPTACLES PRESENTLY USED TO SERVE "DIMENSION" CABINETS, AND SHALL INSTALL TWO NEW RECEPTACLES OF SAME TYPE AT LOCATION SHOWN TO SERVE RELOCATED CABINETS. ELECTRICAL CONTRACTOR TO COORDINATE WITH SWB AND HAVE RECEPTACLES READY FOR SERVICE WHEN SWB RELOCATES CABINETS.
 - EXISTING INVERTER AND BATTERY CHARGER TO REMAIN AND BE RE-FED FROM NEW PANEL "2LE" AS INDICATED.
 - EXISTING BATTERY BANK TO REMAIN, NO WORK.
 - EXISTING LOAD CENTERS MOUNTED ON COLUMN, PRESENTLY SERVING DIMENSION EQUIPMENT, BATTERY CHARGER, ETC. TO BE REMOVED. EXISTING 240V SIMPLEX RECEPTACLE SERVING COFFEE MAKER TO BE REMOVED, RE-POSITIONED AND/OR REPLACED AS REQUIRED IN CONJUNCTION WITH NEW WALL TREATMENT.
 - EXISTING 240V SIMPLEX RECEPTACLE SERVING WATER HEATER TO BE REMOVED, RE-POSITIONED AND/OR REPLACED AS REQUIRED IN CONJUNCTION WITH NEW WALL TREATMENT.
 - EXISTING REFRIGERATOR TO REMAIN.
 - EXISTING ELECTRIC WATER HEATER TO REMAIN.
 - EXISTING DISHWASHER TO REMAIN.
 - EXISTING DISHWASHER TO REMAIN.
 - EXISTING ICEMAKER TO REMAIN.
 - "VERTICAL" FAN COIL UNIT FED FROM 1ST FLOOR PANEL. REFER TO "FIRST FLOOR ELECTRICAL PLAN - POWER", SHEET E-4.
 - ROOF MOUNTED EXHAUST FAN # 2-2-81.
 - CONTRACTOR TO FURNISH POWER CONTRACTOR WITH 277V COIL AT EXHAUST FAN. CONTRACTOR TO BE CONNECTED SO THAT COIL IS ENERGIZED WHEN LIGHT SWITCH "4" IS OPERATED TO TURN ON LIGHTS IN COFFEE BAR 207. (REFER TO "SECOND FLOOR ELECTRICAL PLAN-LIGHTING"). CONTRACTOR TO BE IN NEMA 1 ENCLOSURE.
 - THE REQUIRED 3/4" CONDUIT FROM TELEPHONE OUTLET BOX TO FIRST FLOOR CEILING SPACE (REFER NOTE 4) SHALL BE INSTALLED IN WALL SPACE BEHIND OUTLET BOX AND EXTENDED DOWNWARD, OFFSET AS REQUIRED AND ROUTED THRU A PRE-CUT OPENING IN NEW 2ND FLOOR STRUCTURAL BEAMS, INTO THE FIRST FLOOR CEILING SPACE. REFER TO SHEET S-2 FOR LOCATION OF OPENINGS; REFER TO SECTION 4, SHEET A-13 FOR SECTION AT WALL. CONDUIT SHALL BE FURNISHED WITH PULL WIRE AND PROPERLY TERMINATED FOR INSTALLATION OF TELEPHONE CABLE.
 - PRE-CUT OPENINGS IN THE NEW 2ND FLOOR STRUCTURAL BEAMS ARE TO BE USED FOR ROUTING CONDUITS FROM OUTLETS AND F.C. UNITS TO 1ST FLOOR CEILING SPACE WHERE REQUIRED. REFER TO SHEET S-2 FOR LOCATION OF OPENINGS; REFER TO SECTION 4, SHEET A-13 FOR SECTION AT WALL.
 - EXISTING INCOMING TELEPHONE CABLE IN 2" CONDUIT TO MAIN TELEPHONE TERMINAL BOARD IN TELEPHONE EQUIPMENT 210. CABLE TO BE MAINTAINED, ROUTING TO BE MODIFIED AS REQUIRED. CONTRACTOR TO VERIFY AND PAY ALL CHARGES FROM SOUTHWESTERN BELL TELEPHONE COMPANY.
 - EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



SECOND FLOOR ELECTRICAL PLAN - POWER
SCALE: 1/8"=1'-0"

- NOTES:
- REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 - REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 - REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 - REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
 - REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
 - REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
 - REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.



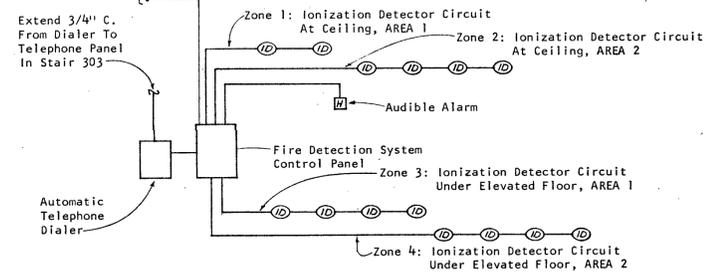
- NOTES INDICATED BY NUMBER IN \square :
- ONE OF THREE MOMENTARY CONTACT WALL SWITCHES CONTROLLING LIGHTING CONTACTOR "E".
 - MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "F".
 - SWITCHED BY LIGHTING CONTACTOR "E". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 - SWITCHED BY LIGHTING CONTACTOR "F". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 - DELETED.
 - EXISTING LIGHT FIXTURES FOR VAULT 308 TO REMAIN. CONTRACTOR TO PROVIDE WIRING AND DEVICES AS REQUIRED TO CONNECT EXISTING FIXTURES TO CIRCUIT 3LE-17.
 - EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL(S) AND CIRCUIT(S) FEEDING LIGHTS; CONTRACTOR TO FURNISH AND INSTALL WIRING AND DEVICES AS REQUIRED TO CONNECT CIRCUIT(S) TO SPARE BREAKER IN NEAREST NEW 120/208V PANEL(S), MAINTAINING SERVICE TO LIGHTS.
 - EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



THIRD FLOOR ELECTRICAL PLAN - LIGHTING
SCALE: 1/8"=1'-0"

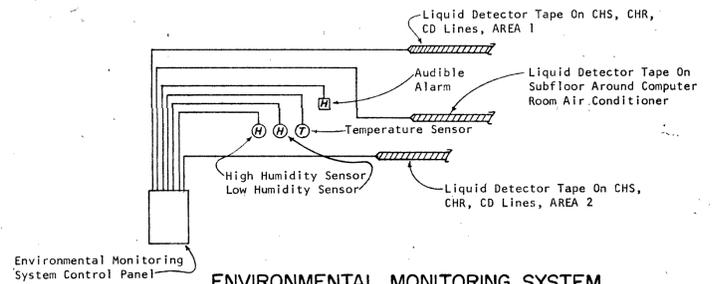
- NOTES:
- REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 - REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 - REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 - REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.

FLOW SWITCHES AS REQUIRED; REFER ARTICLE 168-43 OF SPECIFICATIONS



**FIRE DETECTION SYSTEM
SINGLE LINE DIAGRAM-
MACHINE ROOM 314**

NO SCALE
NOTE: Refer to Article 168-43 of Electrical Specifications for Fire Detection System Specifications.



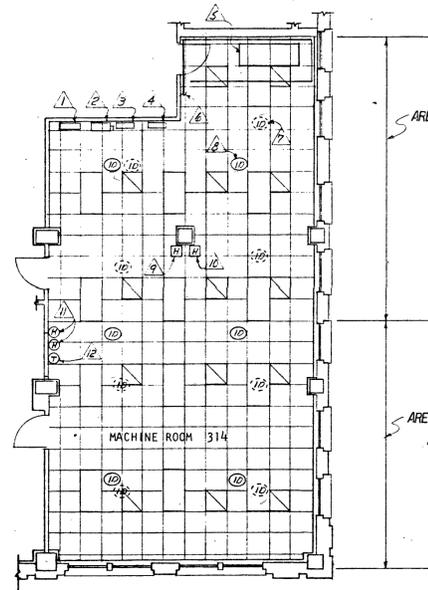
**ENVIRONMENTAL MONITORING SYSTEM
SINGLE LINE DIAGRAM-
MACHINE ROOM 314**

NO SCALE
NOTE: Refer to Article 168-44 of Electrical Specifications for Environmental Monitoring System Specifications.

MACHINE ROOM 314 - EQUIPMENT, RECEPTACLE & CIRCUIT SCHEDULE

MARK	MACHINE	RECEPTACLE REQUIRED	RATING	RECEPTACLE MOUNTING	CIRCUIT
1	COLLATOR	20A DUPLEX	20A, 120V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-17
2	COMPUTER ROOM AIR CONDITINER	N/A	N/A	N/A	*** 3LC-19,21,23
3	REPRODUCING PUNCH	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-24
4	3886 SCANNER	* R & S 3754	30A, 120/208V, 3Ø, 4W	UNDER RAISED FLOOR	3LC-1,3,5
5	3340 DISC DRIVE	* R & S 3754	30A, 120/208V, 3Ø, 4W	WALL	3LC-2,4,6
6	4331 CPU	* R & S 3743	20A, 208V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-8,10
7	1442 CARD READER-PUNCH	* R & S 3743	20A, 208V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-12,14
8	3262 PRINTER	VERIFY WITH OWNER OR SUPPLIER		UNDER RAISED FLOOR	3LC-16,18
9	3203 PRINTER	* R & S 3754	30A, 120/208V, 3Ø, 4W	UNDER RAISED FLOOR	3LC-7,9,11
10	CONTROLLER-MODEM	**	**	WALL	3LC-26,28
11	8809 TAPE DRIVE	* R & S 6-15R	15A, 208V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-20,22
12	SORTER	20A DUPLEX	20A, 120V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-21
13	029 KEYPUNCH	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-19
14	3279 CRT	* R & S 5-15R	15A, 120V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-15
15	CARD READER	20A DUPLEX	20A, 120V, 1Ø, 3W	UNDER RAISED FLOOR	3LC-23
16	BURSTER	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-25
17	DECOLLATOR	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-27
18	CONVENIENCE OUTLETS	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-29
19	CONVENIENCE OUTLETS	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-31
20	CONVENIENCE OUTLETS	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-33
21	CONVENIENCE OUTLETS	20A DUPLEX	20A, 120V, 1Ø, 3W	WALL	3LC-35

* DESIGNATES MANUFACTURER: RUSSELL AND STOLL
** CONTRACTOR TO VERIFY RECEPTACLE AND CIRCUIT REQUIREMENTS WITH OWNER.
*** CIRCUIT TO BE 4-11'S, 1-1/2" GR., 2" C.



FIRE DETECTION AND ENVIRONMENTAL MONITORING SYSTEMS-MACHINE ROOM 314

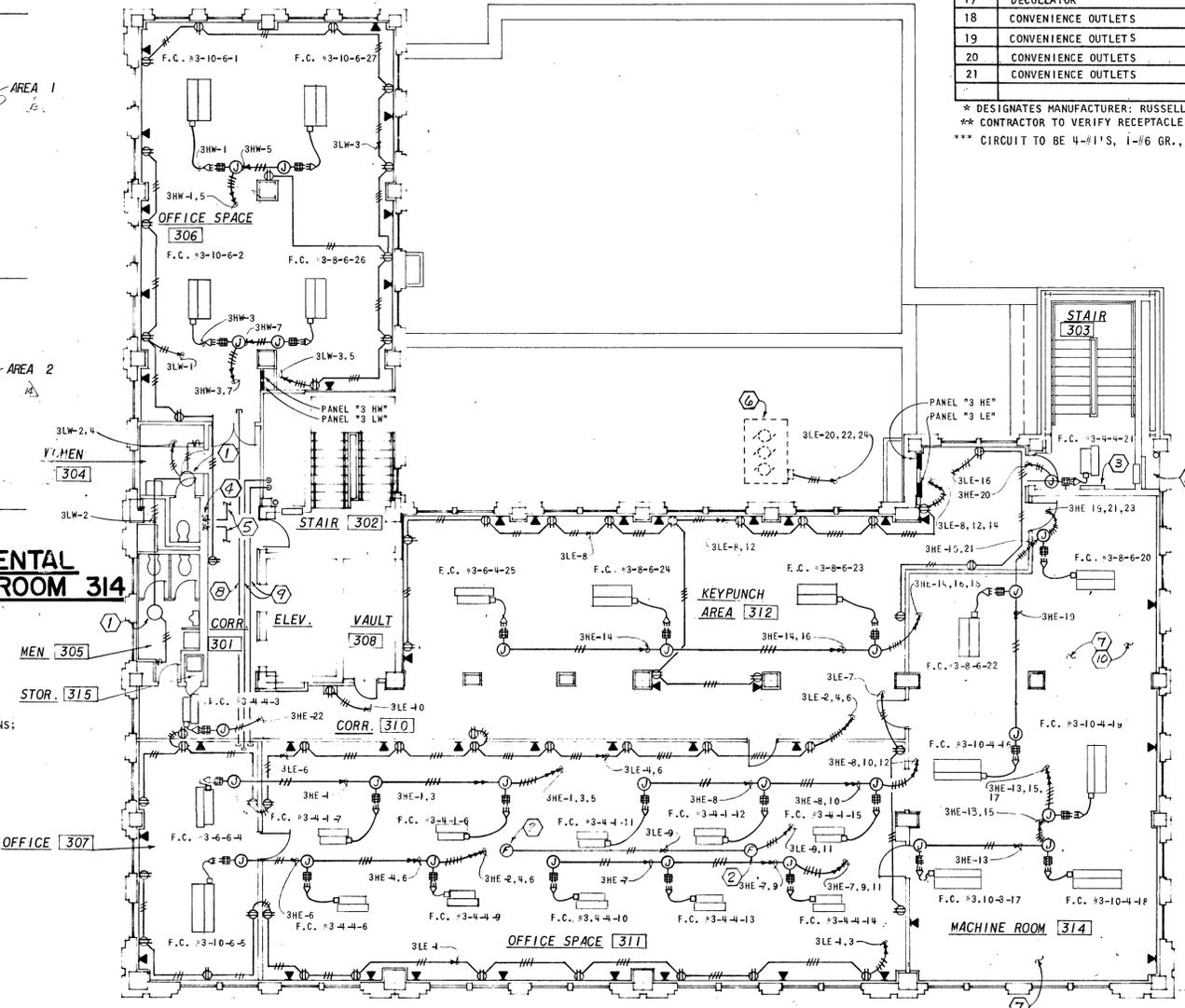
SCALE: 1/8" = 1'-0"

NOTES INDICATED BY NUMBER IN Δ :

- ELECTRICAL PANEL 3LC.
- 205A DISCONNECT FOR COMPUTER ROOM AIR CONDITIONER.
- FIRE DETECTION SYSTEM CONTROL PANEL AND AUTOMATIC TELEPHONE DIALER.
- ENVIRONMENTAL MONITORING SYSTEM CONTROL PANEL.
- COMPUTER ROOM AIR CONDITIONER.
- LIQUID DETECTOR TAPE APPLIED DIRECTLY TO SUBFLOOR PER SPECIFICATIONS; TAPE TO EXTEND TO CONTROL PANEL. TAPE TO BE APPLIED SO AS TO COMPLETELY "ENCLOSE" THE AREA OCCUPIED BY THE COMPUTER ROOM AIR CONDITIONER AND RELATED WATER AND CONDENSATE DRAIN LINES.
- IONIZATION DETECTOR UNDER ELEVATED FLOOR (TYPICAL-8 THUS)
- IONIZATION DETECTOR MOUNTED IN CEILING (TYPICAL-6 THUS)
- ENVIRONMENTAL MONITORING SYSTEM ALARM.
- FIRE DETECTION SYSTEM ALARM.
- HUMIDITY SENSORS.
- TEMPERATURE SENSOR.
- LIQUID DETECTOR TAPE TO BE APPLIED LONGITUDINALLY OVER INSULATION TO ALL CHS, CHR, AND CD PIPING IN CEILING SPACE ABOVE ZONE 1. REFER TO SHEET M-4 FOR PIPING.
- LIQUID DETECTOR TAPE TO BE APPLIED LONGITUDINALLY OVER INSULATION TO ALL CHS, CHR AND CD PIPING IN CEILING SPACE ABOVE ZONE 1. REFER TO SHEET M-4 FOR PIPING.

NOTES:

- REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
- REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
- REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
- REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
- REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
- REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
- REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.

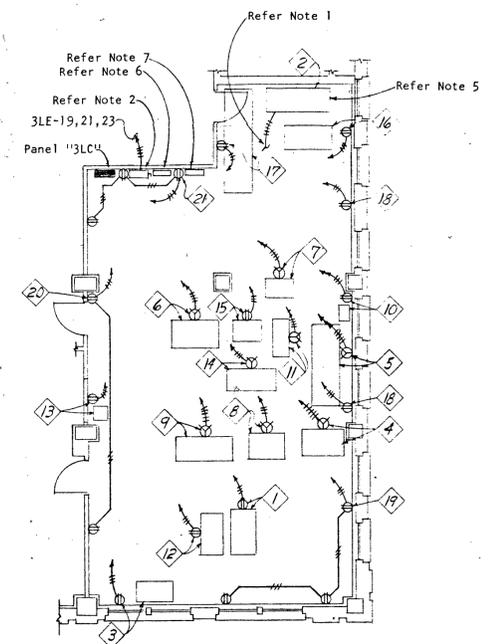


THIRD FLOOR ELECTRICAL PLAN-POWER

SCALE: 1/8" = 1'-0"

NOTES INDICATED BY NUMBER IN ○ :

- TYPE "A" CEILING MOUNTED ELECTRIC HEATER: REFER TO HEATER SCHEDULE.
- FUTURE OFFICE POWER J-BOX LOCATE IN ACCESSABLE LOCATION ABOVE LAY-IN CEILING.
- THIRD FLOOR TELEPHONE PANEL; REFER TO TELEPHONE SINGLE LINE DIAGRAM, SHEET E-22.
- EXISTING TELEPHONE CABINET TO BE RETAINED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARILY SUPPORTING PANEL, REROUTING CABLES AND CONDUITS, AND REINSTALLING PANEL IN THE COURSE OF THE REMOVAL AND REPLACEMENT OF THE CORRIDOR WALL. CONTRACTOR SHALL COORDINATE TELEPHONE PANEL RELATED WORK AND PAY ANY CHARGES FROM SWB RELATED TO SAID WORK.
- CONTRACTOR TO INSTALL 2" CONDUIT WITH PULL WIRE IN CORRIDOR CEILING. CONDUIT TO EXTEND FROM EXISTING PANEL TO LAY-IN CEILING AREAS.
- EXISTING AIR COOLED CONDENSER FOR EXISTING COMPUTER ROOM AIR CONDITIONING UNIT (CONDENSER LOCATED AT THIRD FLOOR LEVEL ON ROOF OF COFFEE BAR). ELECTRICAL CONTRACTOR TO PROVIDE NEW CIRCUIT FROM PANEL "3LE" AS INDICATED. ELECTRICAL CONTRACTOR TO PROVIDE CONTROL CIRCUITS AS REQUIRED FROM AIR CONDITIONING UNIT TO CONDENSER.
- REFER TO "MACHINE ROOM EQUIPMENT ELECTRICAL POWER PLAN", THIS SHEET FOR LOCATIONS AND CIRCUITING OF MACHINE ROOM EQUIPMENT.
- 1-1/2" CONDUIT FROM OFFICE 307 CEILING SPACE ACROSS CORRIDOR 301 GYP. BD. CEILING TO OFFICE 306 CEILING SPACE FOR FUTURE CRT CABLES. REFER SHEET E-22.
- 2 - 1-1/2" CONDUITS FROM OFFICE 307 CEILING SPACE ACROSS CORRIDOR 301 GYP. BD. CEILING TO CHASE. TURN CONDUITS DOWN IN CHASE AND EXTEND TO FIRST AND SECOND FLOORS FOR FUTURE CRT CABLES. REFER SHEET E-22.
- REFER TO "FIRE DETECTION AND ENVIRONMENTAL MONITORING SYSTEMS-MACHINE ROOM 314", THIS SHEET FOR SYSTEMS REQUIREMENTS.
- EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



MACHINE ROOM EQUIPMENT ELECTRICAL POWER PLAN

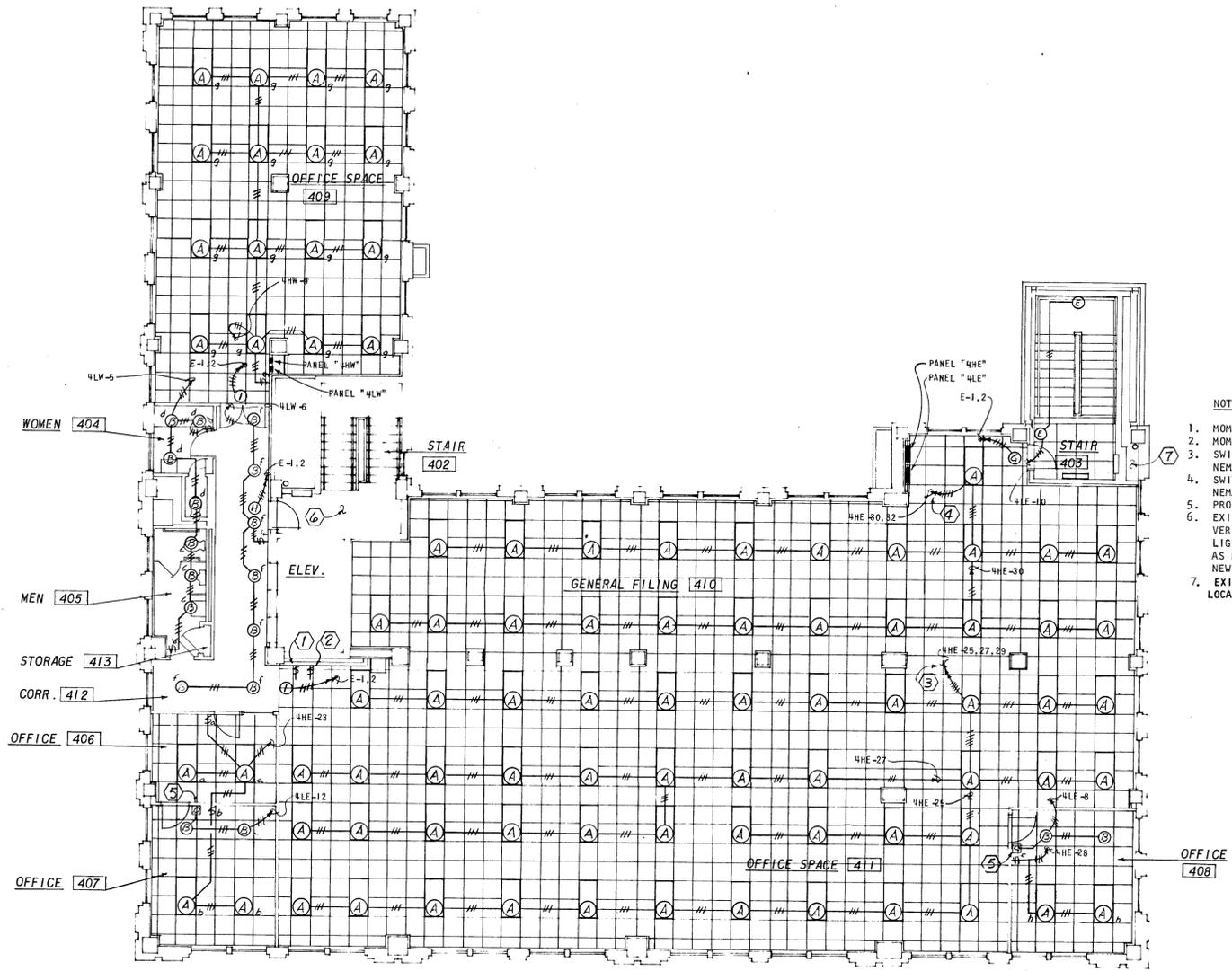
SCALE: 1/8" = 1'-0"

NOTES:

- EXTEND CIRCUIT TO DISCONNECT SWITCH MOUNTED ON WALL ADJACENT TO PANEL "3LC".
- 200A, 240V, 3Ø, 4W NON-FUSED DISCONNECT SWITCH ON COMPUTER AIR CONDITIONER CIRCUIT.
- PRIOR TO INSTALLATION OF WIRING AND DEVICES FOR SERVING MACHINE ROOM EQUIPMENT, CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF EQUIPMENT AND REQUIRED RECEPTACLES WITH ARCHITECT AND OWNER AT JOBSITE.
- MACHINE ROOM FLOOR TO BE OF THE ELEVATED TYPE.
- EXISTING FLOOR MOUNTED COMPUTER ROOM AIR CONDITIONER TO BE RELOCATED FROM EXISTING MACHINE ROOM TO LOCATION INDICATED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE NEW CIRCUIT TO UNIT FROM PANEL "3LE" AS INDICATED.
- FIRE DETECTION SYSTEM CONTROL PANEL AND AUTOMATIC TELEPHONE DIALER. REFER TO "MACHINE ROOM FIRE DETECTION SYSTEM AND ENVIRONMENTAL MONITORING SYSTEM PLAN", THIS SHEET.
- ENVIRONMENTAL MONITORING SYSTEM CONTROL PANEL. REFER TO "MACHINE ROOM FIRE DETECTION SYSTEM AND ENVIRONMENTAL MONITORING SYSTEM PLAN", THIS SHEET.

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ABILENE, TEXAS

RENOVATION BUILDING UTILITIES COMPANY
WEST TEXAS UTILITIES COMPANY
ABILENE, TEXAS



- NOTES INDICATED BY NUMBER IN :
1. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "G".
 2. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "H".
 3. SWITCHED BY LIGHTING CONTACTOR "G". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 4. SWITCHED BY LIGHTING CONTACTOR "H". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 5. PROVIDE AND INSTALL HUNT # A-600 WALL BOX DIMMER.
 6. EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL(S) AND CIRCUIT(S) FEEDING LIGHTS; CONTRACTOR TO FURNISH AND INSTALL WIRING AND DEVICES AS REQUIRED TO CONNECT CIRCUIT(S) TO SPARE BREAKER IN NEAREST NEW 120/208V PANEL(S), MAINTAINING SERVICE TO LIGHTS.
 7. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



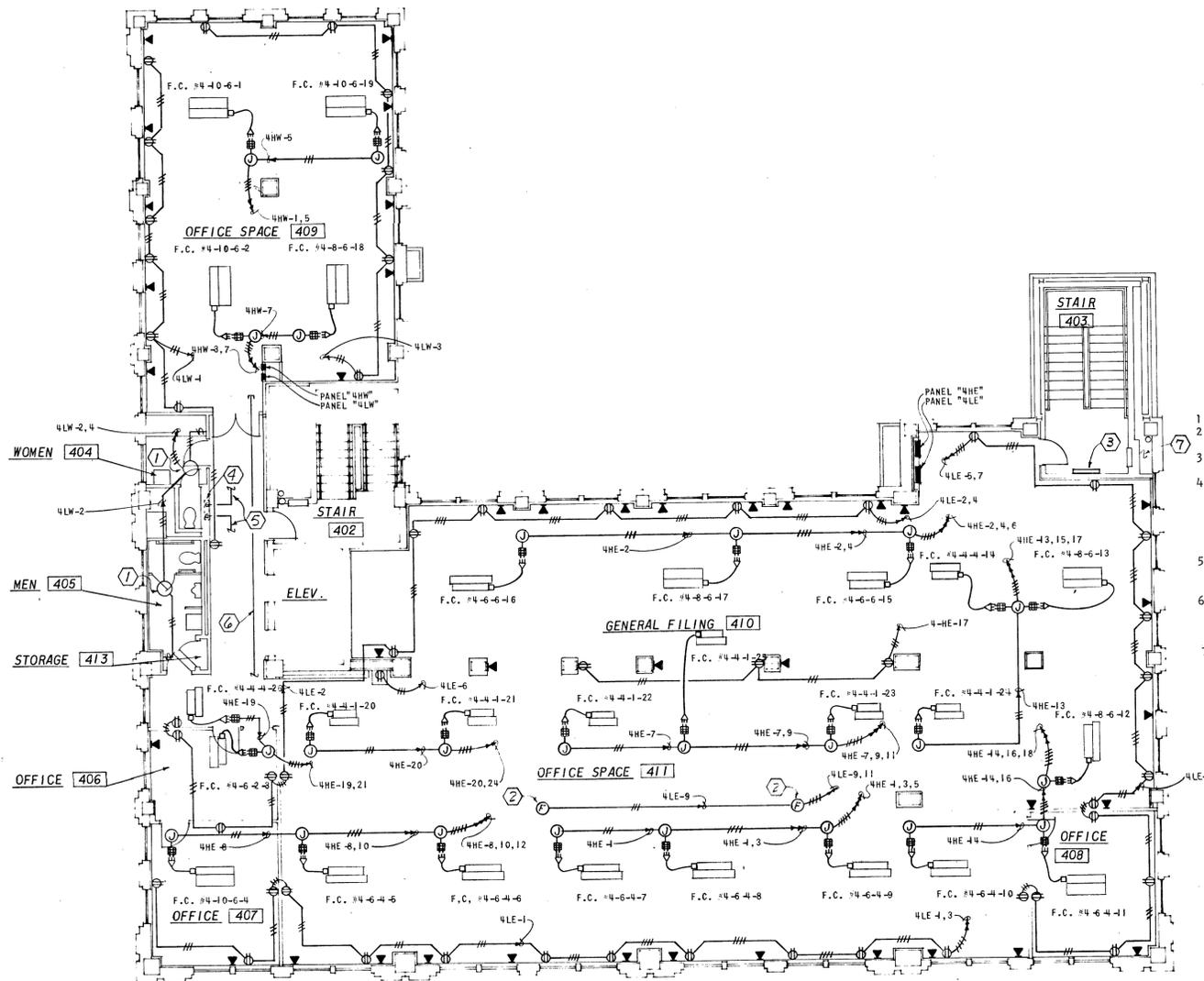
FOURTH FLOOR ELECTRICAL PLAN-LIGHTING
SCALE: 1/8"=1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.

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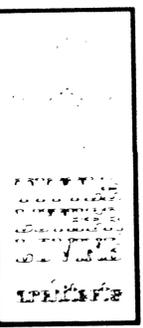


- NOTES INDICATED BY NUMBER IN :
1. TYPE "A" CEILING MOUNTED ELECTRIC HEATER; REFER TO HEATER SCHEDULE.
 2. FUTURE OFFICE POWER J-BOX, LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
 3. FOURTH FLOOR TELEPHONE PANEL; REFER TO TELEPHONE SINGLE LINE DIAGRAM, SHEET E-21.
 4. EXISTING TELEPHONE CABINET TO BE RETAINED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARILY SUPPORTING PANEL, REROUTING CABLES AND CONDUITS AND REINSTALLING PANEL IN THE COURSE OF THE REMOVAL AND REPLACEMENT OF THE CORRIDOR WALL. CONTRACTOR SHALL COORDINATE TELEPHONE PANEL RELATED WORK AND PAY ANY CHARGES FROM SUB RELATED TO SAID WORK.
 5. CONTRACTOR TO INSTALL 2" CONDUIT WITH PULL WIRE IN CORRIDOR CEILING. CONDUIT TO EXTEND FROM EXISTING PANEL TO LAY-IN CEILING AREAS.
 6. 1-1/2" CONDUIT FROM OFFICE 406 CEILING SPACE ACROSS CORRIDOR 401 GYP BD. CEILING TO OFFICE SPACE 409 CEILING SPACE FOR FUTURE CRT CABLES. REFER SHEET E-22.
 7. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



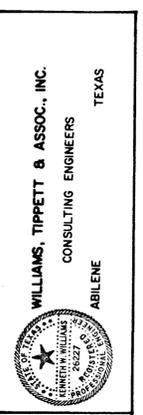
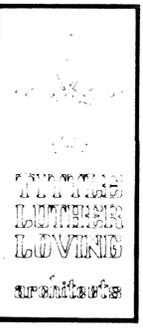
FOURTH FLOOR ELECTRICAL PLAN-POWER
 SCALE: 1/8"=1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
 5. REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
 6. REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
 7. REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.



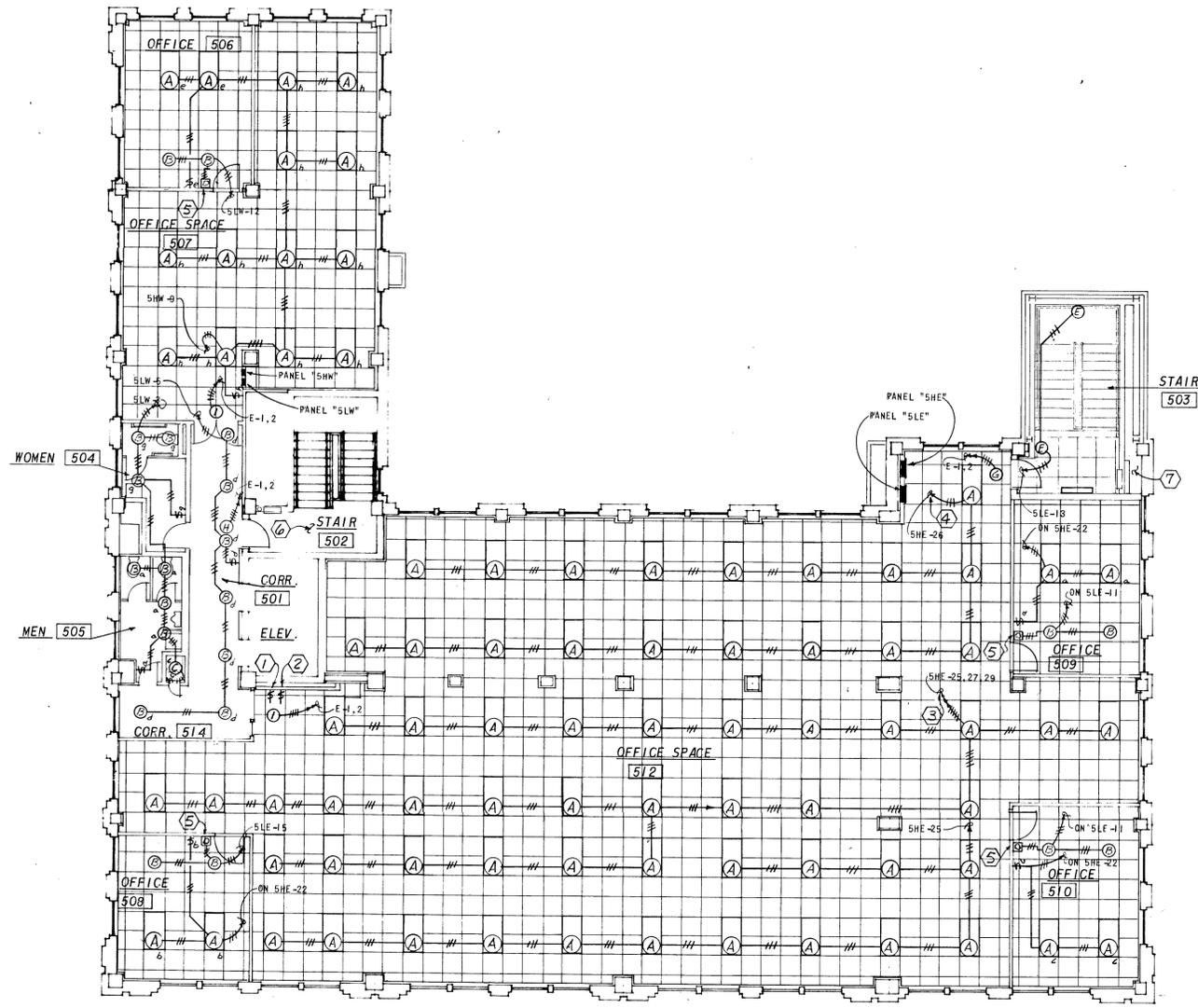
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E-11

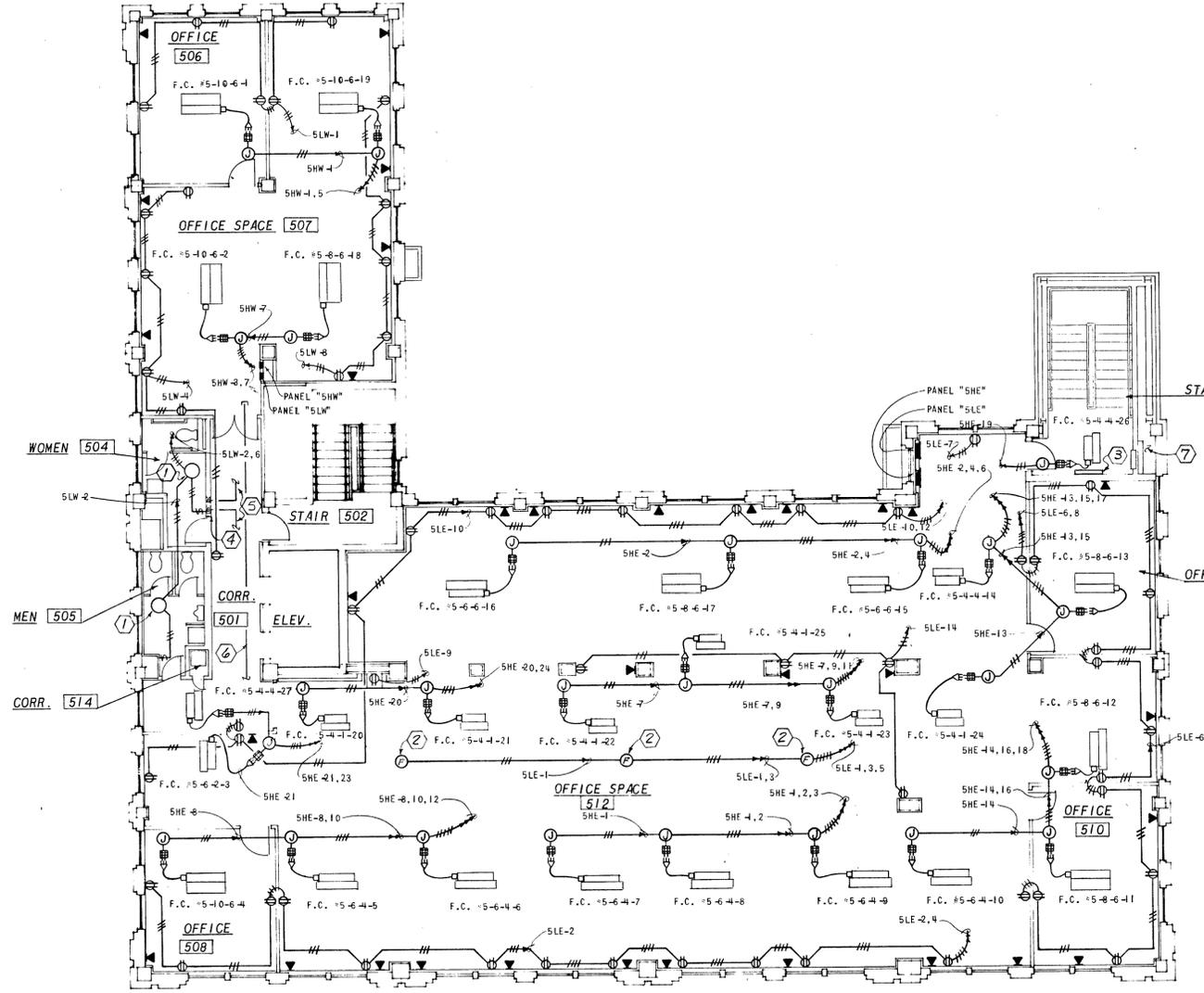


- NOTES INDICATED BY NUMBER IN  :
1. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "11".
 2. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "12".
 3. SWITCHED BY LIGHTING CONTACTOR "11". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 4. SWITCHED BY LIGHTING CONTACTOR "12". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
 5. PROVIDE AND INSTALL HUNT #A-600 WALL BOX DIMMER.
 6. EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL(S) AND CIRCUIT(S) FEEDING LIGHTS. CONTRACTOR TO FURNISH AND INSTALL WIRING AND DEVICES AS REQUIRED TO CONNECT CIRCUIT(S) TO SPARE BREAKER IN NEAREST NEW 120/208V PANEL(S), MAINTAINING SERVICE TO LIGHTS.
 7. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



FIFTH FLOOR ELECTRICAL PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.

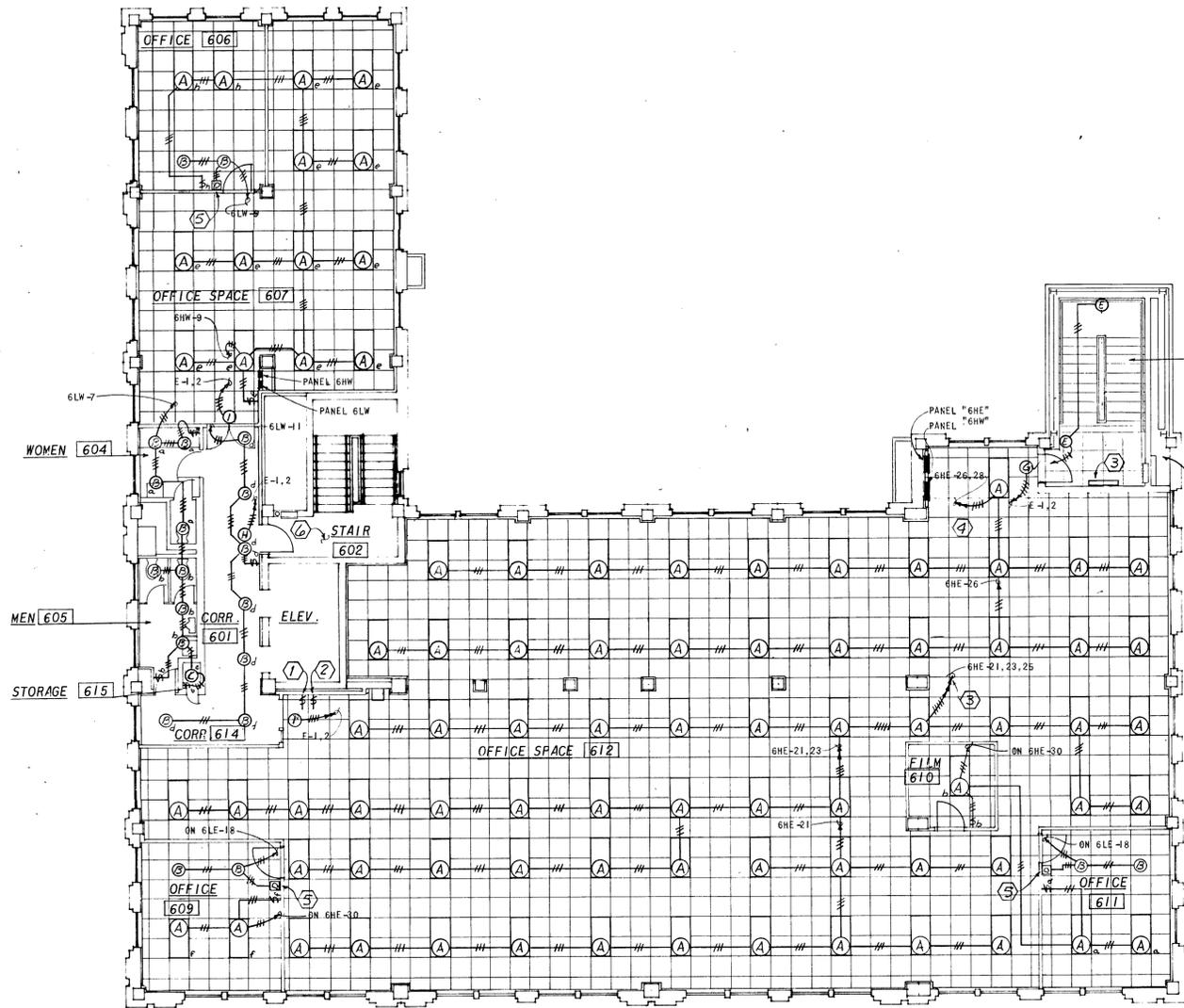


- NOTES INDICATED BY NUMBER IN \square :
1. TYPE "A" CEILING MOUNTED ELECTRIC HEATER; REFER TO HEATER SCHEDULE.
 2. FUTURE OFFICE POWER J-BOX LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
 3. FIFTH FLOOR TELEPHONE PANEL; REFER TO TELEPHONE SINGLE LINE DIAGRAM, SHEET E-21.
 4. EXISTING TELEPHONE CABINET TO BE RETAINED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARILY SUPPORTING PANEL, REROUTING CABLES AND CONDUITS, AND REINSTALLING PANEL IN THE COURSE OF THE REMOVAL AND REPLACEMENT OF THE CORRIDOR WALL. CONTRACTOR SHALL COORDINATE TELEPHONE PANEL RELATED WORK AND PAY ANY CHARGES FROM SWB RELATED TO SAID WORK.
 5. CONTRACTOR TO INSTALL 2" CONDUIT WITH PULL WIRE IN CORRIDOR CEILING. CONDUIT TO EXTEND FROM EXISTING PANEL TO LAY-IN CEILING AREAS.
 6. 1-1/2" CONDUIT FROM OFFICE SPACE 512 CEILING SPACE ACROSS CORRIDOR 501 GYP. RD. CEILING TO OFFICE SPACE 507 CEILING SPACE FOR FUTURE CRT CABLES. REFER SHEET E-22.
 7. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



FIFTH FLOOR ELECTRICAL PLAN-POWER
SCALE: 1/8" = 1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
 5. REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
 6. REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
 7. REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.

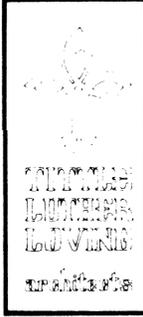


- NOTES INDICATED BY NUMBER IN ○ :
1. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "K".
 2. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "L".
 3. SWITCHED BY LIGHTING CONTACTOR "K".
 4. SWITCHED BY LIGHTING CONTACTOR "L".
 5. PROVIDE AND INSTALL HUNT #A-600 WALL BOX DIMMER.
 6. EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL(S) AND CIRCUIT(S) FEEDING LIGHTS; CONTRACTOR TO FURNISH AND INSTALL WIRING AND DEVICES AS REQUIRED TO CONNECT CIRCUIT(S) TO SPARE BREAKER IN NEAREST NEW 120/208V PANEL(S), MAINTAINING SERVICE TO LIGHTS.
 7. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



SIXTH FLOOR ELECTRICAL PLAN-LIGHTING
SCALE: 1/8"=1'-0"

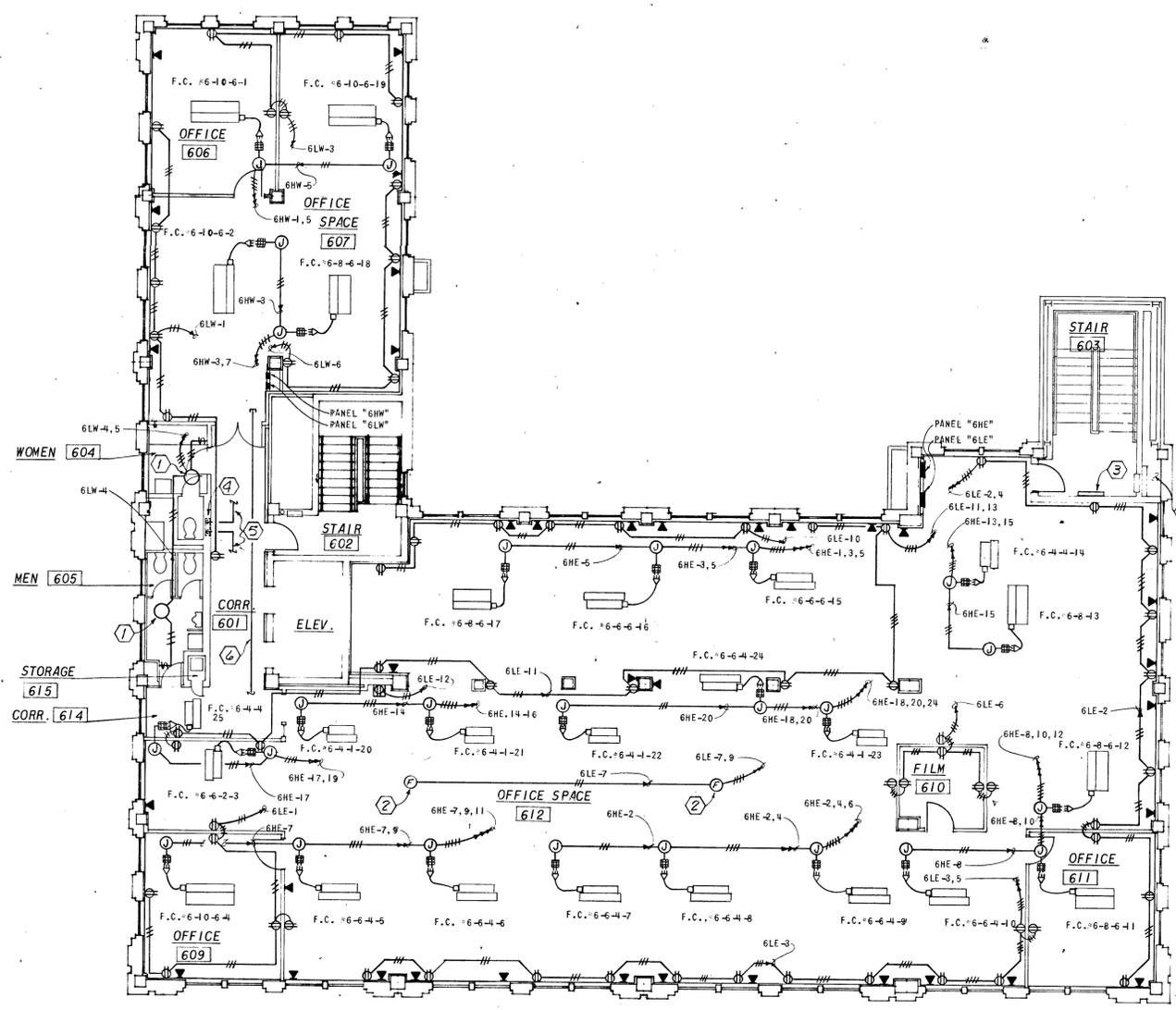
- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.



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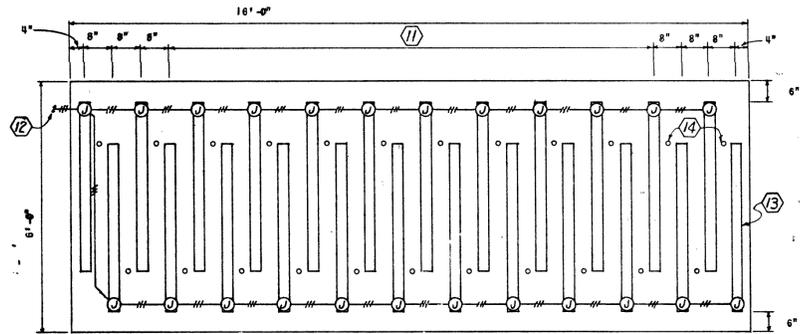


- NOTES INDICATED BY NUMBER IN \odot :
1. TYPE "A" CEILING MOUNTED ELECTRIC HEATER, REFER TO HEATER SCHEDULE.
 2. FUTURE OFFICE POWER J-BOX. LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
 3. 6th FLOOR TELEPHONE PANEL; REFER TO TELEPHONE SINGLE LINE DIAGRAM. EXISTING TELEPHONE CABINET TO BE RETAINED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARILY SUPPORTING PANEL, REROUTING CABLES AND CONDUITS, AND REINSTALLING PANEL IN THE COURSE OF THE REMOVAL AND REPLACEMENT OF THE CORRIDOR WALL. CONTRACTOR SHALL COORDINATE TELEPHONE PANEL RELATED WORK AND PAY ANY CHARGES FROM SWB RELATED TO SAID WORK.
 4. CONTRACTOR TO INSTALL 2" CONDUIT WITH PULL WIRE IN CORRIDOR CEILING. CONDUIT TO EXTEND FROM EXISTING PANEL TO LAY-IN CEILING AREAS.
 5. 1-1/2" CONDUIT FROM OFFICE SPACE 612 CEILING SPACE ACROSS CORRIDOR 601 GYP BD. CEILING TO OFFICE SPACE 607 CEILING SPACE FOR FUTURE CRT CABLES. REFER SHEET E-22.
 6. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.

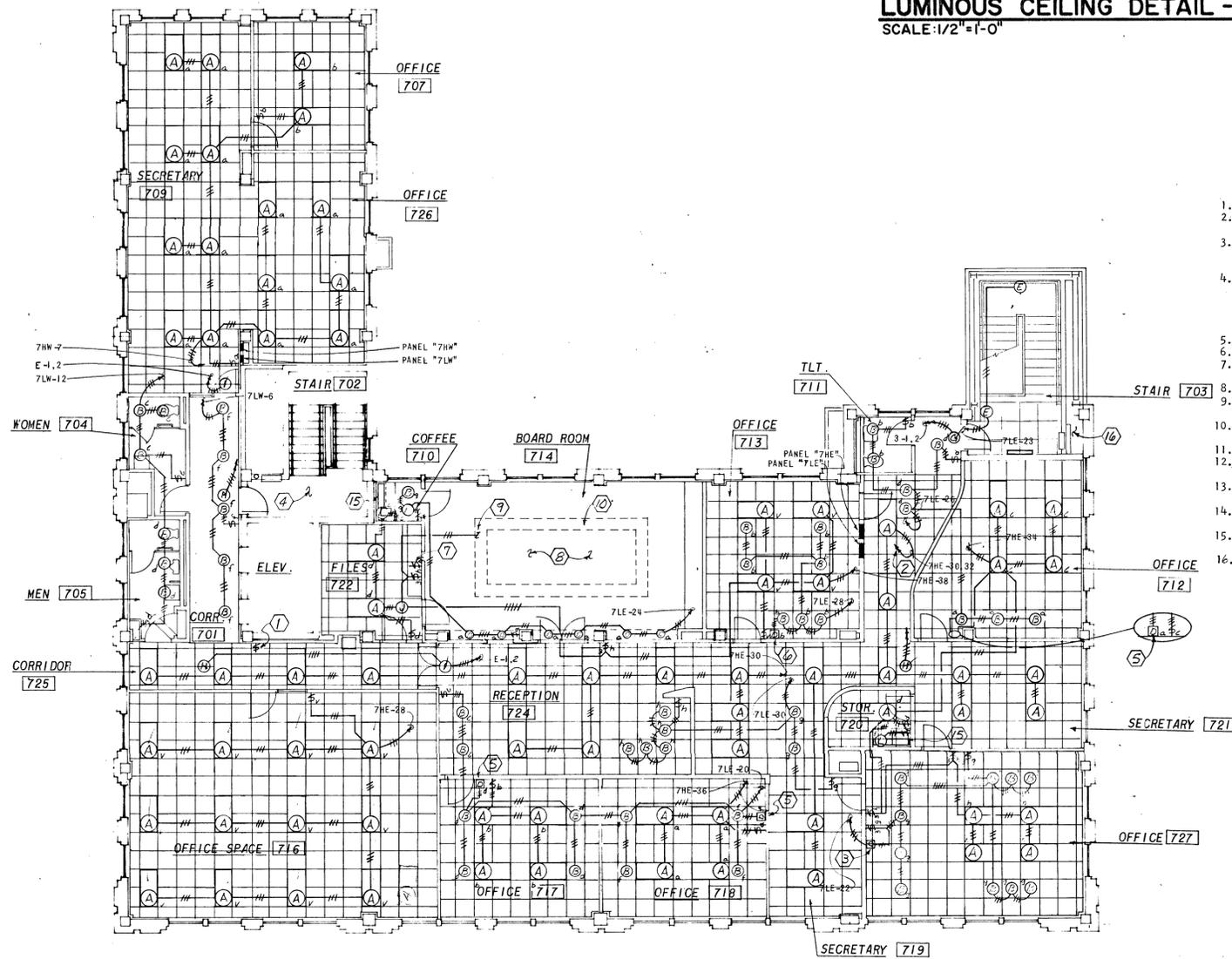


SIXTH FLOOR ELECTRICAL PLAN - POWER
SCALE: 1/8" = 1'-0"

- NOTES:
1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
 2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
 3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
 4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
 5. REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
 6. REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
 7. REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.



LUMINOUS CEILING DETAIL - ROOM 714
SCALE: 1/2" = 1'-0"



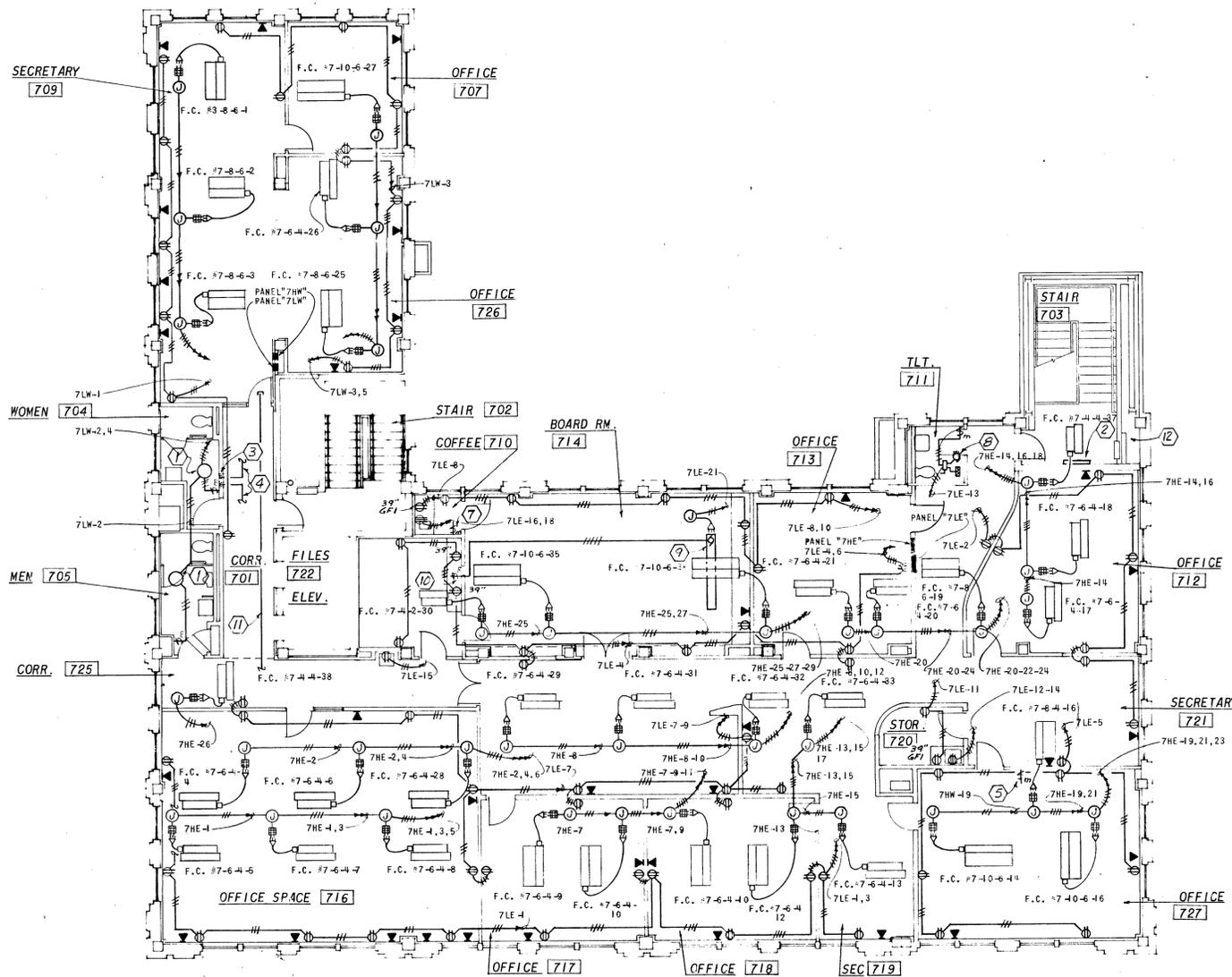
SEVENTH FLOOR ELECTRICAL PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

NOTES:

1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.

NOTES AS INDICATED BY NUMBER IN [Symbol]:

1. MOMENTARY CONTACT WALL SWITCH CONTROLLING LIGHTING CONTACTOR "M".
2. SWITCHED BY LIGHTING CONTACTOR "M". CONTACTOR TO BE MOUNTED IN NEMA 1 ENCLOSURE IN CEILING SPACE ADJACENT TO PANEL.
3. PROVIDE AND INSTALL HUNT #A-2000 WALL BOX DIMMER AND HUNT #AWS-3 THREE WAY SWITCHES AS INDICATED TO PROVIDE DIMMING AND THREE WAY SWITCHING OF LIGHTS IN OFFICE 727.
4. EXISTING LIGHT FIXTURES IN STAIR TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF EXISTING PANEL(S) AND CIRCUIT(S) FEEDING LIGHTS; CONTRACTOR TO FURNISH AND INSTALL WIRING AND DEVICES AS REQUIRED TO CONNECT CIRCUIT(S) TO SPARE BREAKER IN NEAREST NEW 120/208V PANEL(S), MAINTAINING SERVICE TO LIGHTS.
5. PROVIDE AND INSTALL HUNT #A-1000 WALL BOX DIMMER.
6. PROVIDE AND INSTALL HUNT #A-2000 WALL BOX DIMMER.
7. THREE POSITION CONTROL SWITCH FOR PROJECTION SCREEN; REFER 7th FLOOR ELECTRICAL POWER PLAN.
8. LUMINOUS CEILING; REFER TO DETAIL, THIS SHEET.
9. REFER TO "LUMINOUS CEILING DETAIL", THIS SHEET FOR CONTINUATION.
10. FURRED DOWN AREA; REFER TO ARCHITECTURAL PLANS FOR LUMINOUS CEILING CONSTRUCTION DETAILS.
11. MAINTAIN INDICATED 8" SPACING BETWEEN ALL FIXTURES.
12. REFER TO "SEVENTH FLOOR ELECTRICAL PLAN-LIGHTING" (THIS SHEET) FOR CONTINUATION.
13. 4" "STRIP" FIXTURE WITH 1-40W FLUORESCENT LAMP (TYPICAL). REFER TO LIGHTING FIXTURE SCHEDULE.
14. 1" Ø HOLES IN GYP BOARD CEILING (TYPICAL) FOR HEAT TRANSFER TO CEILING SPACE ABOVE.
15. FIXTURE TO BE MOUNTED ON BOTTOM SIDE OF UPPER CABINET. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
16. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.



SEVENTH FLOOR ELECTRICAL PLAN-POWER
 SCALE: 1/8" = 1'-0"

NOTES:

1. REFER TO "ELECTRICAL NOTES-GENERAL", SHEET E-28.
2. REFER TO SHEET E-19 FOR ELECTRICAL SINGLE LINE DIAGRAM.
3. REFER TO SHEETS E-23 THRU E-26 FOR PANEL SCHEDULES.
4. REFER TO SHEETS E-27, E-28 FOR ELECTRICAL SCHEDULES.
5. REFER TO SHEETS M-13 AND M-14 FOR FAN COIL UNIT SCHEDULES.
6. REFER TO SHEET E-21 FOR TELEPHONE SINGLE LINE DIAGRAM.
7. REFER TO SHEET E-22 FOR CRT CABLE RACEWAY SYSTEM.

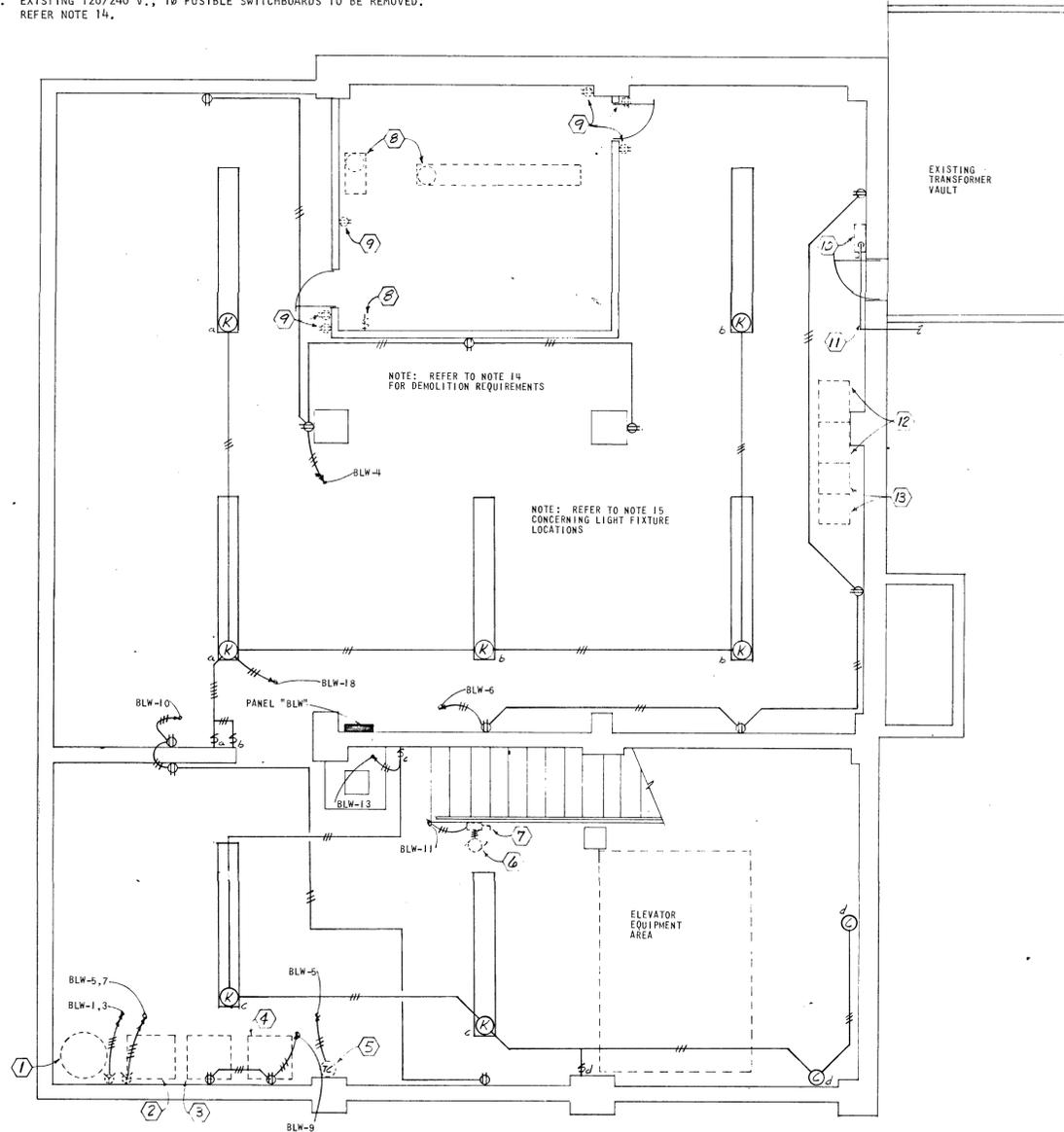
NOTES AS INDICATED BY NUMBER IN \square :

1. TYPE "A" CEILING MOUNTED ELECTRIC HEATER; REFER TO HEATER SCHEDULE. HEATER TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. SEVENTH FLOOR TELEPHONE PANEL; REFER TO TELEPHONE SINGLE LINE DIAGRAM, SHEET E-21.
3. EXISTING TELEPHONE CABINET TO BE RETAINED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARILY SUPPORTING PANEL, REROUTING CABLES AND CONDUITS, AND REINSTALLING PANEL IN THE COURSE OF THE REMOVAL AND REPLACEMENT OF THE CORRIDOR WALL. CONTRACTOR SHALL COORDINATE TELEPHONE PANEL RELATED WORK WITH SWB TELEPHONE CO. AND PAY ANY CHARGES FROM SWB RELATED TO SAID WORK.
4. CONTRACTOR TO INSTALL 2" CONDUIT WITH PULL WIRE IN CORRIDOR CEILING SPACE. CONDUIT TO EXTEND FROM EXISTING PANEL TO LAY-IN CEILING AREAS.
5. MANUAL STARTER FOR EXHAUST FAN # 7-1-81. STARTER TO BE GREENHECK TYPE MSW-4 TWO SPEED FLUSH TOGGLE SWITCH. REFER TO ROOF PLAN AND 7TH FLOOR MECHANICAL PLAN FOR EXHAUST FAN LOCATION.
6. DELETED
7. MANUAL STARTER FOR EXHAUST FAN # 7-3-81. STARTER TO BE GREENHECK TYPE MSW-4 TWO SPEED FLUSH TOGGLE SWITCH. REFER TO ROOF PLAN AND 7TH FLOOR MECHANICAL PLAN FOR EXHAUST FAN LOCATION.
8. COMBINATION HEATER-EXHAUST FAN #7-4-81. UNIT TO BE INSTALLED IN CEILING SPACE ABOVE TOILET. UNIT TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR; REQUIRED DUCTWORK, CONNECTIONS, ROOF JACK, ETC. TO BE BY MECHANICAL CONTRACTOR. REFER TO 7TH FLOOR MECHANICAL PLAN.
9. ELECTRICALLY OPERATED PROJECTION SCREEN RECESSED IN CEILING.
10. THREE POSITION CONTROL SWITCH FURNISHED WITH PROJECTION SCREEN.
11. 1-1/2" CONDUIT FROM OFFICE 716 CEILING SPACE ACROSS CORRIDOR 701 GYP BD. CEILING TO OFFICE 726 CEILING SPACE FOR FUTURE CRT CABLES. REFER SHEET E-22.
12. EXISTING PANELS AND DEVICES AT EXISTING CHASE AT THIS LOCATION; REFER NOTE 10, SHEET E-28.

NOTES INDICATED BY NUMBER IN \square :

1. EXISTING ELECTRIC WATER HEATER TO REMAIN. EXISTING RECEPTACLE FOR WATER HEATER TO REMAIN AND BE REFEED FROM PANEL "BLW" AS INDICATED.
2. EXISTING ELECTRIC CLOTHES DRYER TO REMAIN. CONTRACTOR TO VERIFY LOAD AND RECEPTACLE REQUIREMENTS FOR DRYER AND PROVIDE NEW 240 VOLT SIMPLEX RECEPTACLE OF TYPE REQUIRED FOR EXISTING DRYER PLUG.
3. EXISTING CLOTHES WASHER (INACTIVE).
4. EXISTING CLOTHES WASHER.
5. EXISTING TIME CLOCK SWITCH SERVING EXTERIOR BUILDING SIGN. CLOCK SIGN CIRCUIT TO BE RECONNECTED TO PANEL "BLW" AS INDICATED.
6. EXISTING SUMP LIFT PUMP TO REMAIN.
7. EXISTING 30A, 125V, 2P DISCONNECT SERVING PUMP TO REMAIN AND BE REFEED FROM PANEL "BLW" AS INDICATED. EXISTING CIRCUIT "LUGGED ON" TO DISCONNECT AND SERVING ADJACENT STEAM CONDENSATE PUMP TO BE REMOVED. NEUTRAL CONDUCTOR IN DISCONNECT IS PRESENTLY FUSED. NEUTRAL TO BE FED "STRAIGHT THRU" WHEN DISCONNECT IS REWIRED. CASE OF DISCONNECT IS TO BE CONNECTED TO GROUNDING CONDUCTOR PER NEC CODE WHEN DISCONNECT IS REWIRED.
8. EXISTING LIGHTS AND RELATED DEVICES IN MAINTENANCE PERSONNEL'S OFFICE TO BE MAINTAINED AND REFEED FROM CIRCUIT BLW-16.
9. EXISTING RECEPTACLES TO BE MAINTAINED AND REFEED FROM CIRCUITS BLW-12 AND BLW-14.
10. EXISTING 200A, 240V, 3P FUSED DISCONNECT FED FROM 240V, 3Ø TRANSFORMER BANK IN VAULT. DISCONNECT FEEDS 150A, 240V, 3P PANEL IN PENTHOUSE FOR INACTIVE EXTERIOR BUILDING LIGHTS. SERVICE CONDUCTORS FROM TRANSFORMER TO DISCONNECT SHALL BE DISCONNECTED AND REMOVED. HOWEVER, DISCONNECT AND FEEDER CIRCUIT TO EXTERIOR PANEL SHALL REMAIN.
11. EXTEND 2" CONDUIT WITH PULL WIRE FROM EXISTING DISCONNECT TO EQUIPMENT ROOM 110. REFER TO SHEET E-19 FOR CONTINUATION.
12. EXISTING 240V, 3Ø, FUSIBLE SWITCHBOARDS TO BE REMOVED. (REFER NOTE 14).
13. EXISTING 120/240 V., 1Ø FUSIBLE SWITCHBOARDS TO BE REMOVED. REFER NOTE 14.

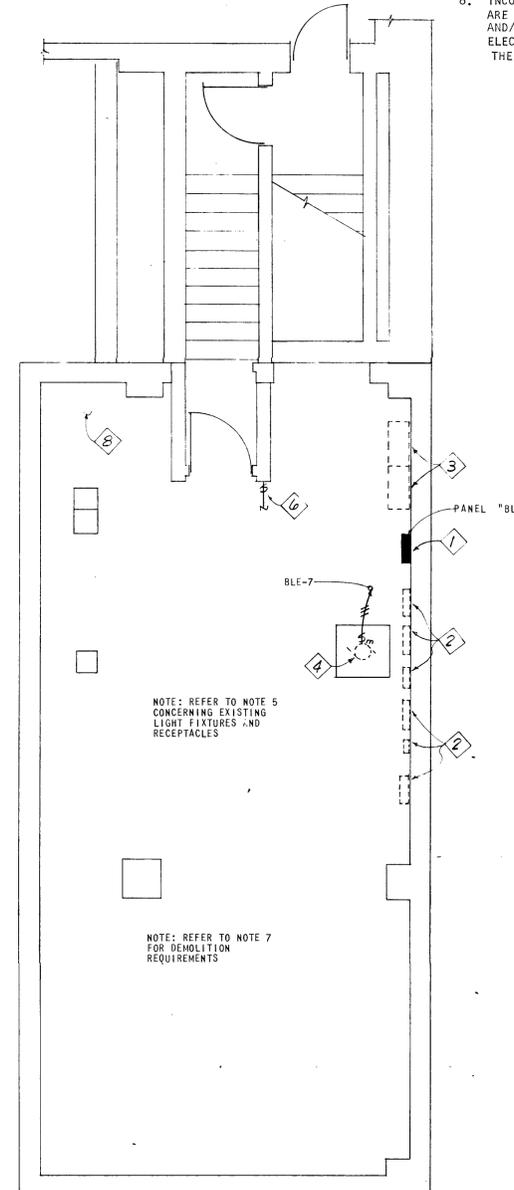
14. ALL PRESENTLY INSTALLED WIRING AND DEVICES (WITH EXCEPTIONS AS SET OUT ABOVE) IN THE WEST BASEMENT SHALL BE REMOVED PRIOR TO AND/OR IN CONJUNCTION WITH THE COMPLETION OF THIS PROJECT. WIRING AND DEVICES TO BE REMOVED SHALL INCLUDE CONDUITS, DISCONNECTS, PANELBOARDS, STARTERS, LIGHT FIXTURES, RECEPTACLES, SWITCHES, ETC. NO WIRING AND DEVICES SHALL BE REMOVED PRIOR TO DISCONTINUED USE OF THE EQUIPMENT WHICH IS BEING SERVED BY THE WIRING AND DEVICES.
15. LIGHT FIXTURES SHALL NOT BE INSTALLED UNTIL AFTER THE FIRE SPRINKLER SYSTEM HAS BEEN INSTALLED IN THE BASEMENT. THE ELECTRICAL CONTRACTOR SHALL ADJUST THE INDICATED LOCATIONS OF THE FIXTURES WHERE REQUIRED TO AVOID CONFLICT WITH FIRE SPRINKLERS.



**WEST BASEMENT ELECTRICAL PLAN-
LIGHTING & POWER**
SCALE: 1/4"=1'-0"

NOTES INDICATED BY NUMBER IN \square :

1. EXISTING 100A, 120/240V., 1Ø LOAD CENTER AT THIS LOCATION TO BE REPLACED WITH PANEL "BLE".
2. EXISTING STARTERS, SWITCHES AND GITTER TO BE REMOVED.
3. EXISTING 240V., 3Ø AND 120/240V., 1Ø FUSIBLE SWITCHBOARDS TO BE REMOVED.
4. EXISTING SUMP LIFT PUMP TO REMAIN AND BE REFEED FROM PANEL "BLE" AS INDICATED.
5. ALL EXISTING LIGHT FIXTURES, RECEPTACLES, SWITCHES, AND RELATED WIRING AND DEVICES SHALL BE MAINTAINED WHERE POSSIBLE IN THEIR EXISTING LOCATIONS AND REFEED FROM PANEL "BLE" AS INDICATED. WHERE NEW CONSTRUCTION NECESSITATES THE REMOVAL OF FIXTURES, OUTLETS, ETC., SAME SHALL BE RELOCATED AS NEAR AS POSSIBLE TO EXISTING LOCATION.
6. INSTALL NEW SWITCH FOR EXISTING LIGHTS AT LOCATION INDICATED.
7. ALL PRESENTLY INSTALLED WIRING AND DEVICES IN THE EAST BASEMENT (WITH EXCEPTIONS AS SET OUT ABOVE) SHALL BE REMOVED PRIOR TO AND/OR IN CONJUNCTION WITH THE COMPLETION OF THIS PROJECT. WIRING AND DEVICES TO BE REMOVED SHALL INCLUDE CONDUITS, DISCONNECTS, PANELBOARDS, STARTERS, SWITCHES, ETC. NO WIRING AND DEVICES SHALL BE REMOVED PRIOR TO DISCONTINUED USE OF THE EQUIPMENT WHICH IS BEING SERVED BY THE WIRING AND DEVICES.
8. INCOMING 120/240V., 1Ø AND 240V., 3Ø SERVICES TO SWITCHBOARDS ARE IN THIS AREA. ELECTRICAL CONTRACTOR SHALL RELOCATE SERVICES AND/OR PROVIDE OTHER TEMPORARY WORK AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE TO THE SWITCHBOARDS DURING CONSTRUCTION OF THE NEW STAIR AND RELATED WORK.



**EAST BASEMENT ELECTRICAL PLAN-
LIGHTING & POWER**
SCALE: 1/4"=1'-0"

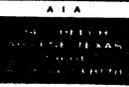


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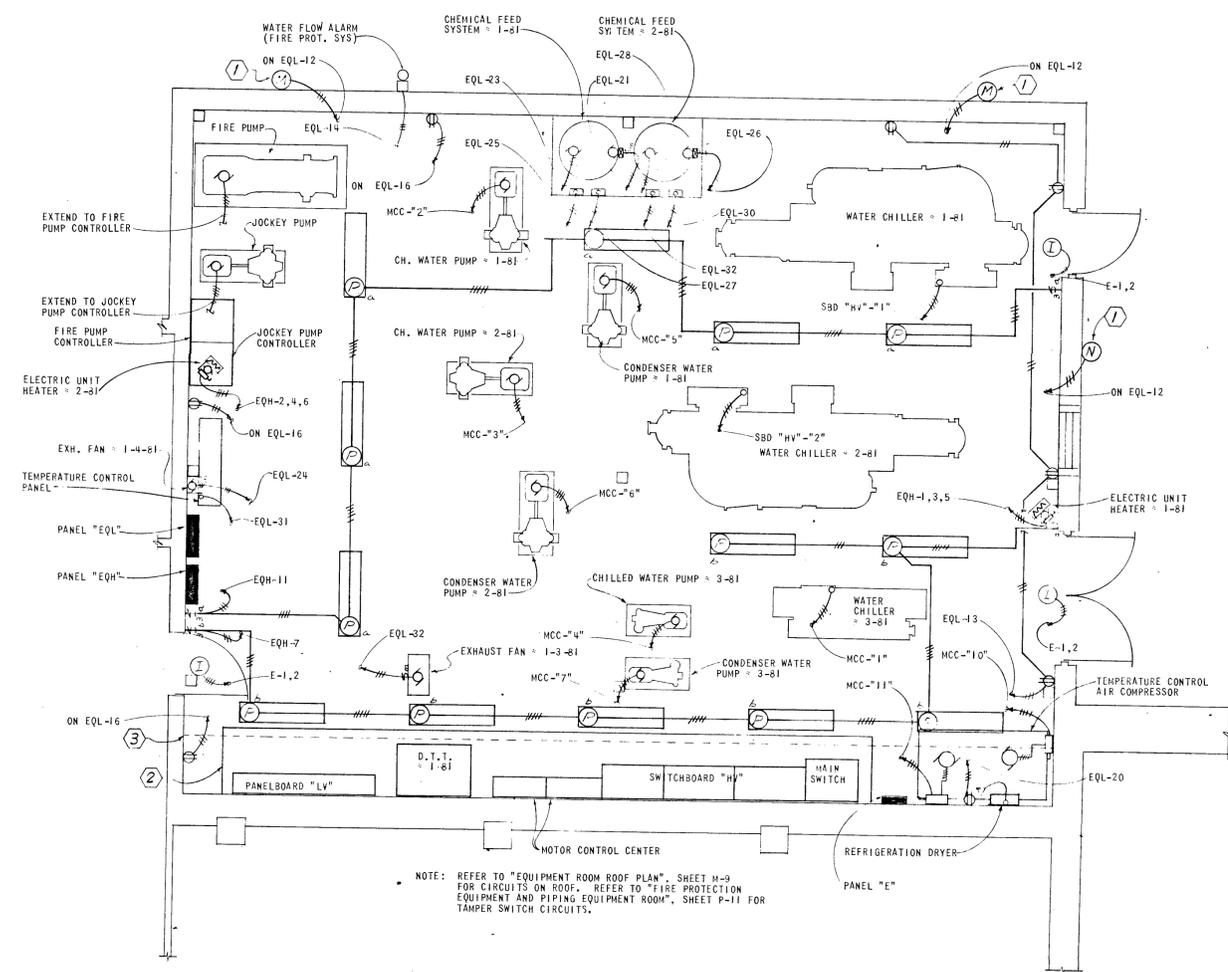
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RENOVATION COMPANY TEXAS
BUILDING UTILITIES COMPANY TEXAS
MAIN WEST TEXAS ABILENE



- NOTES INDICATED BY NUMBER :
1. HPS EXTERIOR LIGHTS (2-400W "M" FIXTURES AND 1-100W "N" FIXTURE). FIXTURES TO BE MOUNTED AT LOCATION AND ELEVATION AS SPECIFIED BY ARCHITECT. FIXTURES TO BE CONTROLLED BY SINGLE 1500 W PHOTOCELL MOUNTED AS HIGH AS POSSIBLE ON SOUTH FACE OF NORTH WALL OF EQUIPMENT ROOM.
 2. CONCRETE EQUIPMENT BASE. RSD 70592.
 3. EDGE OF FLOOR SLAB SECTION OVER EXISTING TUNNEL. REFER NOTE 18, SHEET E-20.

EQUIPMENT ROOM ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

NOTE: REFER TO "EQUIPMENT ROOM ROOF PLAN", SHEET M-9 FOR CIRCUITS ON ROOF. REFER TO "FIRE PROTECTION EQUIPMENT AND PIPING EQUIPMENT ROOM", SHEET P-11 FOR TAMPER SWITCH CIRCUITS.

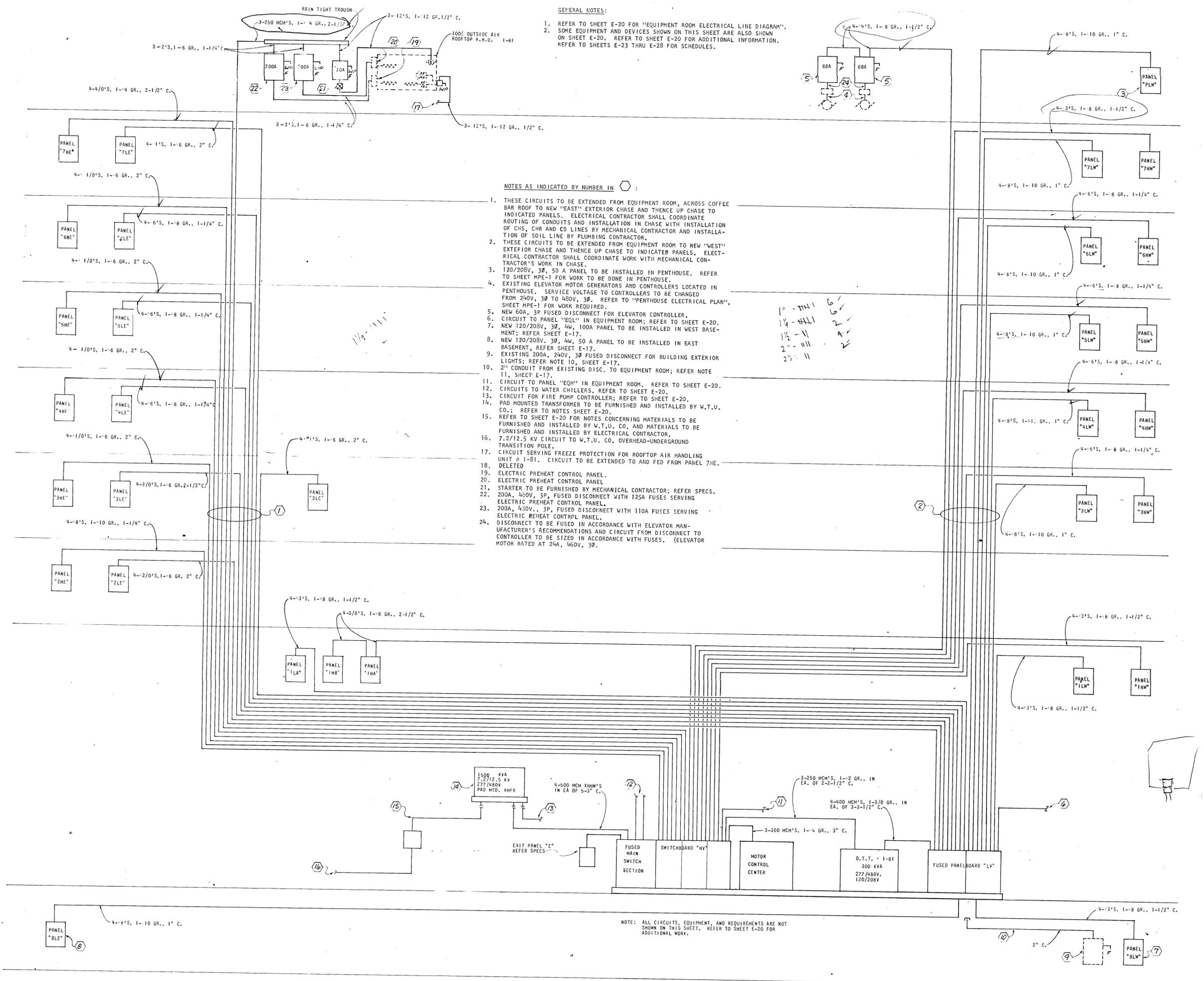
GENERAL NOTES:

1. REFER TO SHEET E-20 FOR "EQUIPMENT ROOM ELECTRICAL LINE DIAGRAM".
2. SOME EQUIPMENT AND DEVICES SHOWN ON THIS SHEET ARE ALSO SHOWN ON SHEET E-20. REFER TO SHEET E-20 FOR ADDITIONAL INFORMATION. REFER TO SHEETS E-23 THRU E-28 FOR SCHEDULES.

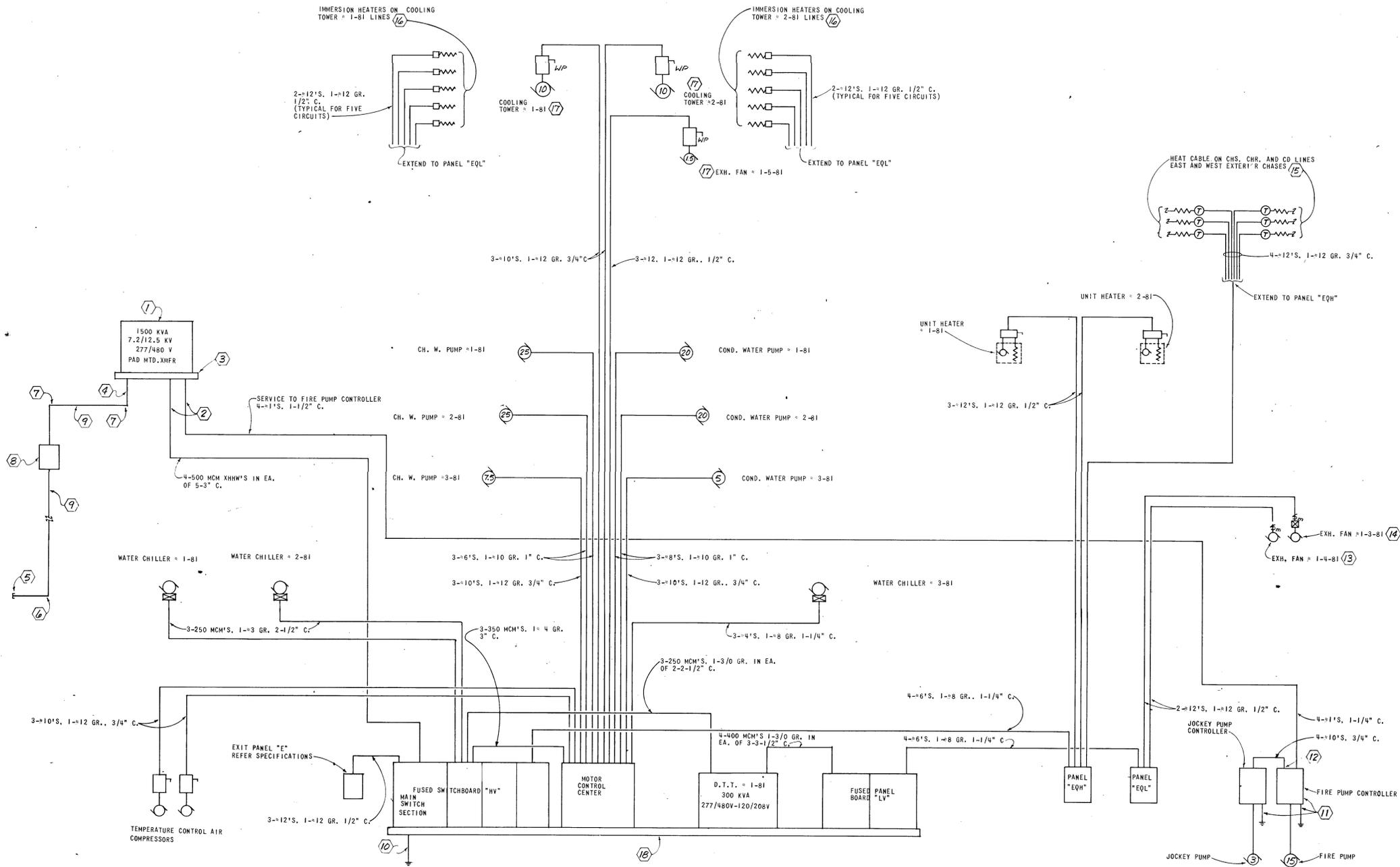
NOTES AS INDICATED BY NUMBER IN \odot :

1. THESE CIRCUITS TO BE EXTENDED FROM EQUIPMENT ROOM, ACROSS COFFEE BAR ROOF TO NEW "EAST" EXTERIOR CHASE AND THENCE UP CHASE TO INDICATED PANELS. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUTING OF CONDUITS AND INSTALLATION IN CHASE WITH INSTALLATION OF CHS, CHR AND CD LINES BY MECHANICAL CONTRACTOR AND INSTALLATION OF SOIL LINE BY PLUMBING CONTRACTOR.
2. THESE CIRCUITS TO BE EXTENDED FROM EQUIPMENT ROOM TO NEW "WEST" EXTERIOR CHASE AND THENCE UP CHASE TO INDICATED PANELS. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL CONTRACTOR'S WORK IN CHASE.
3. 120/208V, 3 ϕ , 50 A PANEL TO BE INSTALLED IN PENTHOUSE. REFER TO SHEET MPE-1 FOR WORK TO BE DONE IN PENTHOUSE.
4. EXISTING ELEVATOR MOTOR GENERATORS AND CONTROLLERS LOCATED IN PENTHOUSE. SERVICE VOLTAGE TO CONTROLLERS TO BE CHANGED FROM 240V, 3 ϕ TO 480V, 3 ϕ . REFER TO "PENTHOUSE ELECTRICAL PLAN", SHEET MPE-1 FOR WORK REQUIRED.
5. NEW 60A, 3 ϕ FUSED DISCONNECT FOR ELEVATOR CONTROLLER.
6. CIRCUIT TO PANEL "EQL" IN EQUIPMENT ROOM; REFER TO SHEET E-20.
7. NEW 120/208V, 3 ϕ , 4W, 100A PANEL TO BE INSTALLED IN WEST BASEMENT; REFER SHEET E-17.
8. NEW 120/208V, 3 ϕ , 4W, 50 A PANEL TO BE INSTALLED IN EAST BASEMENT; REFER SHEET E-17.
9. EXISTING 200A, 240V, 3 ϕ FUSED DISCONNECT FOR BUILDING EXTERIOR LIGHTS; REFER NOTE 10, SHEET E-17.
10. 2" CONDUIT FROM EXISTING DISC. TO EQUIPMENT ROOM; REFER NOTE 11, SHEET E-17.
11. CIRCUIT TO PANEL "EQH" IN EQUIPMENT ROOM. REFER TO SHEET E-20.
12. CIRCUITS TO WATER CHILLERS. REFER TO SHEET E-20.
13. CIRCUIT FOR FIRE PUMP CONTROLLER; REFER TO SHEET E-20.
14. PAD MOUNTED TRANSFORMER TO BE FURNISHED AND INSTALLED BY W.T.U. CO.; REFER TO NOTES SHEET E-20.
15. REFER TO SHEET E-20 FOR NOTES CONCERNING MATERIALS TO BE FURNISHED AND INSTALLED BY W.T.U. CO. AND MATERIALS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
16. 7.2/12.5 KV CIRCUIT TO W.T.U. CO. OVERHEAD-UNDERGROUND TRANSITION POLE.
17. CIRCUIT SERVING FREEZE PROTECTION FOR ROOFTOP AIR HANDLING UNIT # 1-81. CIRCUIT TO BE EXTENDED TO AND FED FROM PANEL 7HE.
18. DELETED
19. ELECTRIC PREHEAT CONTROL PANEL.
20. ELECTRIC PREHEAT CONTROL PANEL.
21. STARTER TO BE FURNISHED BY MECHANICAL CONTRACTOR; REFER SPECS.
22. 200A, 480V, 3 ϕ , FUSED DISCONNECT WITH 125A FUSES SERVING ELECTRIC PREHEAT CONTROL PANEL.
23. 200A, 480V, 3 ϕ , FUSED DISCONNECT WITH 110A FUSES SERVING ELECTRIC REHEAT CONTROL PANEL.
24. DISCONNECT TO BE FUSED IN ACCORDANCE WITH ELEVATOR MANUFACTURER'S RECOMMENDATIONS AND CIRCUIT FROM DISCONNECT TO CONTROLLER TO BE SIZED IN ACCORDANCE WITH FUSES. (ELEVATOR MOTOR RATED AT 24A, 460V, 3 ϕ).

1" - III I
1 1/2" - III I
2" - III I
2 1/2" - III I



ELECTRICAL SINGLE LINE DIAGRAM : FIRST FLOOR-ROOF
NO SCALE



ELECTRICAL SINGLE LINE DIAGRAM-EQUIPMENT ROOM

NO SCALE:

NOTES INDICATED BY NUMBER IN :

1. PAD MOUNT TRANSFORMER TO BE FURNISHED AND INSTALLED BY WEST TEXAS UTILITIES CO. TRANSFORMER TO BE INSTALLED ON ROOF OF EQUIPMENT ROOM; REFER TO SHEET M-9 FOR LOCATION.
2. CONTRACTOR TO EXTEND SERVICE ENTRANCE CONDUCTORS INTO TRANSFORMER SECONDARY COMPARTMENT AND LEAVE SUFFICIENT TAIL ON CONDUCTORS FOR CONNECTION TO SECONDARY TRANSFORMER TERMINALS BY W.T.U. CO. CONDUIT PENETRATION THRU ROOF TO BE PER STANDARD DETAIL 70567.
3. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL FABRICATED STEEL TRANSFORMER PAD PER STANDARD DETAIL 70567. CONTRACTOR TO VERIFY DIMENSIONS OF TRANSFORMER TO BE INSTALLED AND FABRICATE PAD FOR SAME.
4. ELECTRICAL CONTRACTOR TO INSTALL 4" RIGID CONDUIT FROM TRANSFORMER PRIMARY COMPARTMENT, THRU ROOF, DOWN EAST WALL OF EQUIPMENT ROOM AND OUT OF BUILDING, BELOW GRADE.
5. CONTRACTOR TO EXTEND CONDUIT A MINIMUM OF 6'-0" BEYOND BUILDING LINE AT A MINIMUM DEPTH OF 42" BELOW GRADE. CONDUIT TO BE ENCASED IN REINFORCED CONCRETE (SIMILAR TO STANDARD DETAIL 70051) FROM FLOOR SLAB TO A POINT 5'-0" BEYOND BUILDING LINE. CONDUIT TO BE PROVIDED WITH FULL THREADS AND CAPPED AT POINT OF TERMINATION, SUITABLE FOR CONNECTION AND EXTENSION BY W.T.U. CO. PERSONNEL. CONTRACTOR TO VERIFY POINT OF CONDUIT TERMINATION WITH W.T.U. CO.
6. 36" LONG RADIUS 'ELL' TO BE INSTALLED AT THIS POINT.
7. 24" RADIUS 'ELL' TO BE INSTALLED AT THIS POINT.
8. CONTRACTOR TO FURNISH AND INSTALL 24"X18"X8" CAST IRON SURFACE MOUNT PULL BOX IN RACEWAY. BOX TO BE COMPLETE WITH GASKET AND COVER. BOX TO BE O.Z. GEDNEY TYPE 'YS' OR EQUAL. BOX TO BE INSTALLED AS HIGH AS POSSIBLE ON WALL, IMMEDIATELY BELOW 'ELL' IN RACEWAY. BOX TO HAVE APPROVED "DANGER HIGH VOLTAGE" SIGN AFFIXED AND SHALL HAVE "7.2/12.5 KV" PAINTED ON BOX IN 1" BLACK LETTERS.
9. CONDUIT TO HAVE "7.2/12.5 KV" PAINTED ON IT IN 1" BLACK LETTERS.
10. GROUND IN ACCORDANCE WITH N.E.C. EXTEND 3/0 GROUNDING ELECTRODE CONDUCTOR IN 3/4" C. AND BOND BY APPROVED MEANS TO BOTH NEW 3" COLD WATER LINE IN EQUIPMENT ROOM AND TO NEW 6" FIRE LINE FROM ALLEY. REFER TO SHEET P-11 FOR LOCATIONS.
11. GROUND IN ACCORDANCE WITH N.E.C. EXTEND # 6 GROUNDING ELECTRODE CONDUCTOR IN 1/2" C. TO NEW 3" COLD WATER LINE AND 6" FIRE LINE, SAME AS NOTE 10.
12. CONNECT CIRCUIT TO JOCKEY PUMP CONTROLLER TO SUPPLY SIDE TERMINALS OF FIRE PUMP CONTROLLER.
13. EXHAUST FAN # 1-4-81 TO BE CONTROLLED BY TWO SPEED MANUAL STARTER SWITCH LOCATED IN PRINT SHOP 108. REFER TO NOTE 1, SHEET E-4.
14. EXHAUST FAN # 1-3-81 TO BE CONTROLLED BY LIGHT SWITCHES IN MEETING ROOM 111; REFER TO NOTE 2, SHEET E-2.
15. REFER TO SHEET M-9 FOR LOCATION AND CIRCUITING OF HEAT CABLE.
16. REFER TO "EQUIPMENT ROOM ROOF PLAN" SHEET M-9 FOR LOCATION AND CIRCUITING OF IMMERSION HEATERS.
17. REFER TO "EQUIPMENT ROOM ROOF PLAN", SHEET M-9 FOR LOCATION AND CIRCUITING OF EQUIPMENT.
18. CONTRACTOR SHALL PROVIDE CONCRETE EQUIPMENT BASE UNDER FUSED SWITCHBOARD "HV", MOTOR CONTROL CENTER, D.T.T. #1-81, AND FUSED PANELBOARD "LV" IN ACCORDANCE WITH STANDARD DETAIL 70592. REFER TO SHEET E-18 FOR LOCATION OF EQUIPMENT AND BASE. CONTRACTOR'S ATTENTION IS DIRECTED TO EXISTING TUNNEL UNDER EQUIPMENT LOCATION AND TO SLAB CONSTRUCTION IN AREA OF EQUIPMENT AS SET OUT ON SHEET S-1. EQUIPMENT BASE SHALL EXTEND A MINIMUM OF 6" BEYOND 2'-9" FLOOR SLAB SECTION OVER TUNNEL AS INDICATED ON SHEET E-18.

GENERAL NOTES:

1. REFER TO SHEET E-19 FOR "ELECTRICAL SINGLE LINE FIRST FLOOR-ROOF".
2. REFER TO "EQUIPMENT ROOM ROOF PLAN", SHEET M-9 FOR ELECTRICAL CIRCUITING ON EQUIPMENT ROOM ROOF.
3. REFER TO "EQUIPMENT ROOM FIRE PROTECTION EQUIPMENT", SHEET P-11 FOR CIRCUITING OF TAMPER SWITCHES.
4. REFER TO "EQUIPMENT ROOM ELECTRICAL PLAN", SHEET E-18 FOR EQUIPMENT ROOM POWER AND LIGHTING REQUIREMENTS.
5. SOME EQUIPMENT AND DEVICES SHOWN ON THIS SHEET ARE ALSO SHOWN ON SHEET E-19.
6. REFER TO SHEETS E-27, E-28 FOR SCHEDULES.

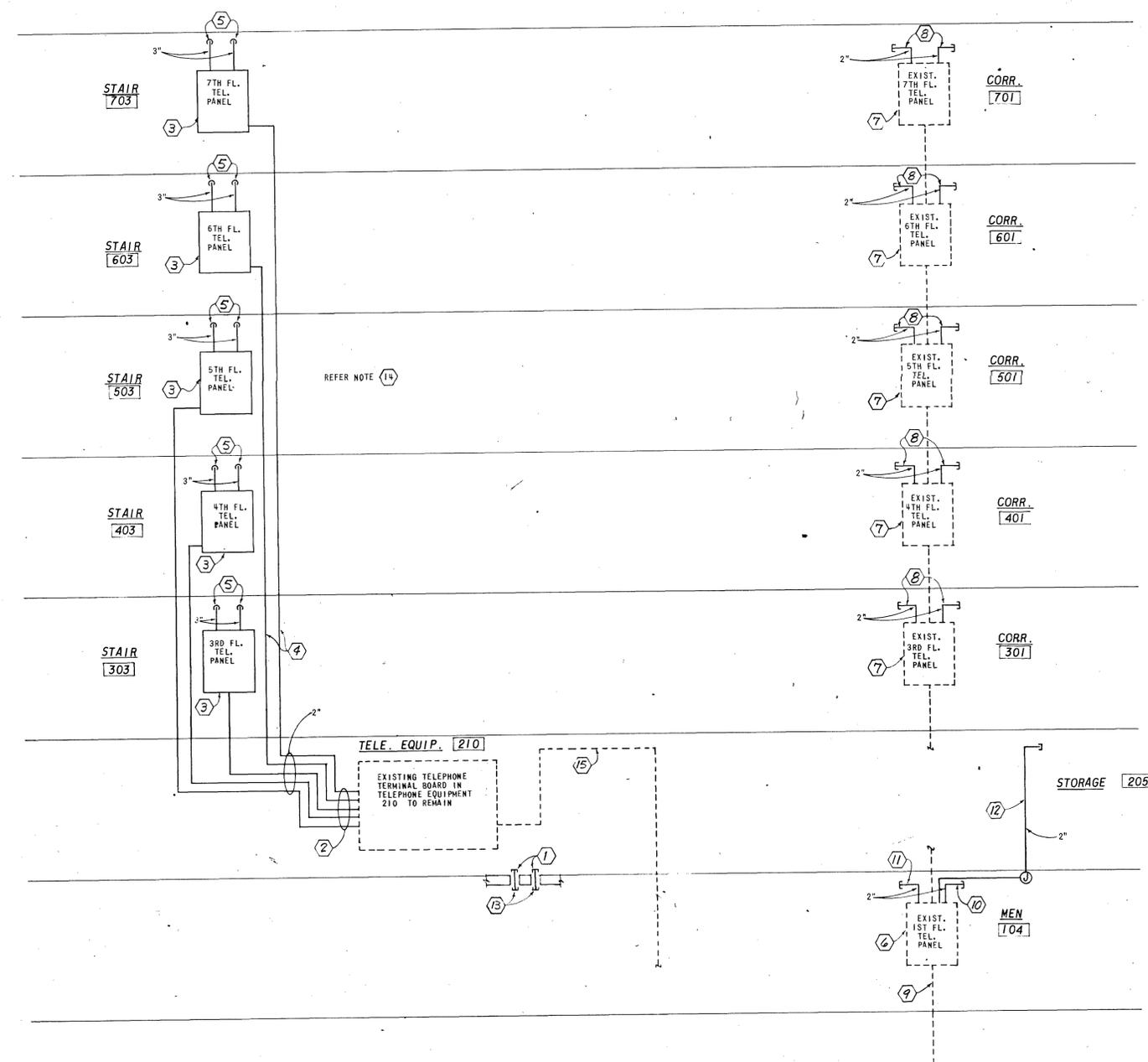


A.I.A.
MEMBER

WILLIAMS, TIPPETT & ASSOC., INC.
CONSULTING ENGINEERS
ABILENE, TEXAS

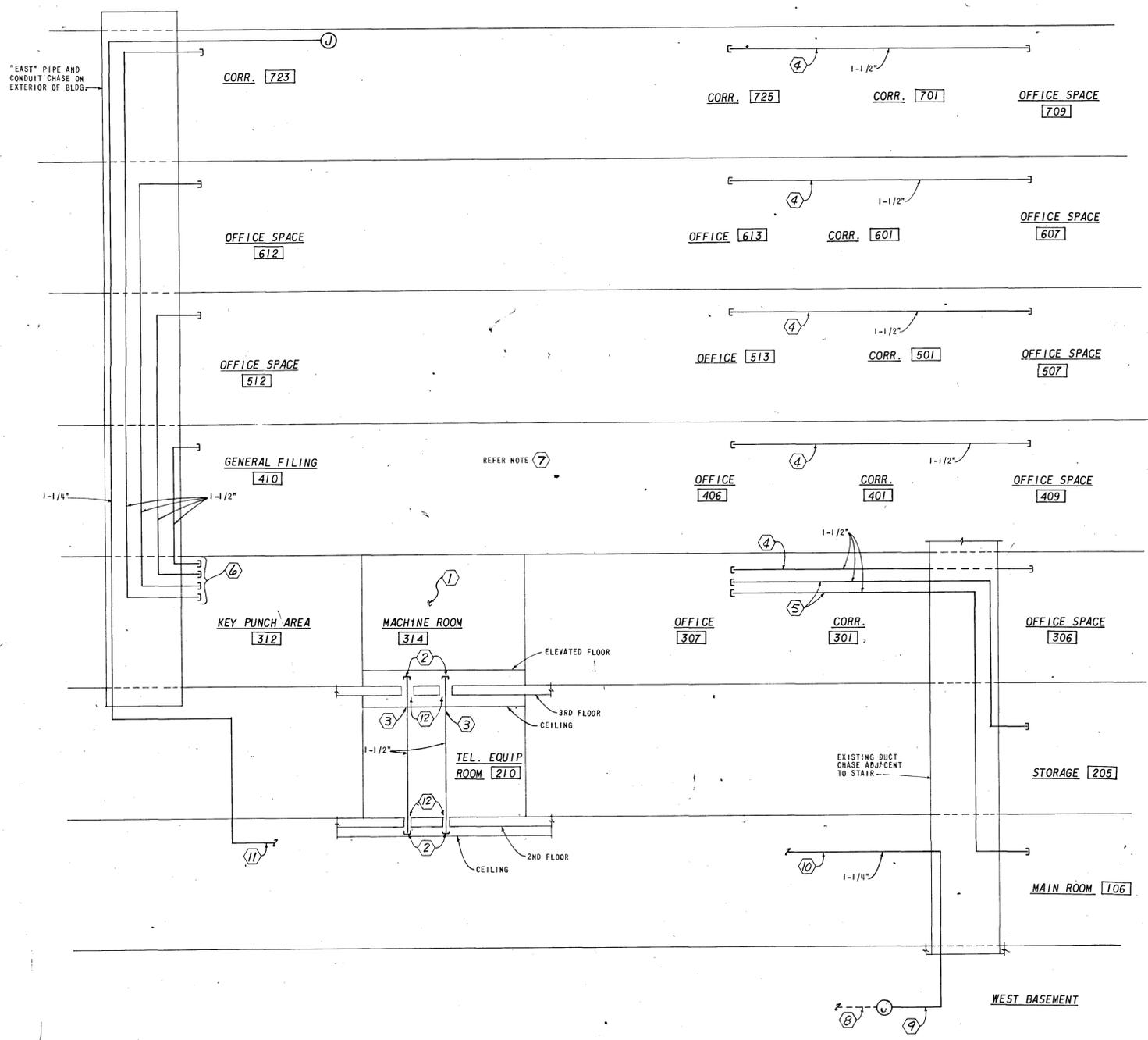
RENOVATION
BUILDING
WEST TEXAS UTILITIES COMPANY
ABILENE, TEXAS

NOTES AS INDICATED BY NUMBER IN 



1. OPENINGS AROUND CONDUIT TO BE SEALED WITH ASBESTOS ROPE AND CEMENT PER SPECIFICATIONS.
2. NEW 2" CONDUITS TO BE INSTALLED FROM TELEPHONE TERMINAL BOARD TO NEW TELEPHONE PANELS ON EACH FLOOR AS INDICATED.
3. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 36"X35"X6" SURFACE MOUNT TELEPHONE PANEL WITH WOOD BACKING. PANEL TO BE INSTALLED ON SOUTH WALL OF STAIR AREAS AS INDICATED ON ELECTRICAL POWER PLANS. CABINET TO BE SQUARE "D" TC-36356B (BOX) AND TC-36356TF (FRONT) OR EQUAL.
4. HOLD CONDUITS PASSING PANEL TO UPPER FLOORS AS CLOSE TO PANEL AS POSSIBLE. PANELS AND CONDUITS ARE TO BE ENCLOSED IN FURRED CHASE BY GENERAL CONTRACTOR AFTER INSTALLATION (FACE OF PANELS TO BE LEFT EXPOSED, FLUSH WITH FURRING).
5. 2-3" CONDUITS TO BE EXTENDED FROM PANEL AND TURNED THRU STAIR WALL, INTO CEILING SPACE FOR INSTALLATION OF TELEPHONE CABLES FROM PANEL TO OUTLETS.
6. EXISTING TELEPHONE PANEL IN MEN 104 TO REMAIN. REFER TO RELATED NOTES, SHEET E-3.
7. EXISTING TELEPHONE PANELS IN CORRIDORS TO REMAIN: REFER TO RELATED NOTES ON ELECTRICAL POWER PLAN FOR EACH FLOOR.
8. CONTRACTOR TO PROVIDE 2" CONDUITS FROM PANEL, THRU CORRIDOR CEILING SPACE TO ADJACENT AREAS WITH LAY-IN CEILINGS: REFER TO RELATED NOTES ON ELECTRICAL POWER PLANS.
9. EXISTING LEAD COVERED TELEPHONE CABLE (EXTENDS TO 7TH FLOOR PANEL).
10. EXTEND CONDUIT FROM PANEL ACROSS SPACE OVER GYP BOARD CEILING IN CORRIDOR 114 TO SPACE OVER LAY-IN CEILING IN CORRIDOR 114.
11. EXTEND CONDUIT FROM PANEL ACROSS SPACE OVER GYP BOARD CEILING IN CORRIDOR 115 TO SPACE OVER LAY-IN CEILING IN OFFICE SPACE 120.
12. EXTEND CONDUIT FROM PANEL, ACROSS STAIR 105, INTO MAIL ROOM, UP CHASE IN S.W. CORNER OF THE MAIL ROOM, TURN OUT IN CEILING OF STORAGE 205.
13. CONTRACTOR TO PROVIDE 2-3" CONDUITS THRU OPENINGS IN 2ND FLOOR SLAB ADJACENT TO TELEPHONE TERMINAL BOARD CONDUITS TO PROVIDE ACCESS TO 1ST FLOOR CEILING SPACE FOR INSTALLATION OF TELEPHONE CABLES TO 1ST AND 2ND FLOOR OUTLETS. CONDUITS TO BE FURNISHED WITH CAPS SUITABLE FOR SEALING CONDUIT AFTER INSTALLATION OF CABLES.
14. EXISTING TELEPHONE PANELS SERVING THE EAST PORTION OF THE BUILDING ARE LOCATED AT A FURRED IN CHASE ON THE EAST WALL AT THE N.E. CORNER OF THE BUILDING. THIS AREA WILL BECOME PART OF THE NEW STAIR AND THE EXISTING PANELS WILL BE REMOVED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS, CONDUITS, MODIFICATIONS, AND OTHER WORK AND MATERIALS AS REQUIRED TO MAINTAIN TELEPHONE SERVICE TO THE EAST PORTION OF THE BUILDING FROM EXISTING PANELS DURING CONSTRUCTION OF THE STAIR, UNTIL SUCH TIME THAT SERVICE FROM NEW PANELS IS AVAILABLE. ELECTRICAL CONTRACTOR SHALL SCHEDULE AND COORDINATE INSTALLATION OF NEW CONDUIT AND PANELS WITH THE GENERAL CONTRACTOR, SOUTHWESTERN BELL TELEPHONE COMPANY AND THE OWNER SO AS TO AVOID DISRUPTION OF TELEPHONE SERVICE TO ANY PORTION OF THE BUILDING.
15. EXISTING INCOMING TELEPHONE CABLE IN 2" CONDUIT TO MAIN TELEPHONE TERMINAL BOARD IN TELEPHONE EQUIPMENT 210. CABLE TO BE MODIFIED AS REQUIRED. CONTRACTOR TO VERIFY AND PAY ALL CHARGES FROM SOUTHWESTERN BELL TELEPHONE CO. REFER NOTE 22, SHEET E-6.

TELEPHONE SINGLE LINE DIAGRAM
NO SCALE



- NOTES AS INDICATED BY NUMBER IN \odot :
1. CRT CABLES TO ORIGINATE IN MACHINE ROOM 314.
 2. BORE SECOND AND THIRD FLOORS, AND INSTALL 1-1/2" CONDUITS AND ESCUTCHEONS. CONDUIT TO PROVIDE RACEWAYS FROM MACHINE ROOM TO FIRST FLOOR CEILING SPACE FOR FUTURE INSTALLATION OF CRT CABLES TO FIRST AND SECOND FLOOR STATIONS.
 3. DELETED.
 4. CONDUIT TO EXTEND FROM CEILING SPACE ABOVE SUSPENDED CEILING, THRU CEILING SPACE ABOVE CORRIDOR GYP BOARD, CEILING TO CEILING SPACE ABOVE SUSPENDED CEILING IN OFFICE SPACE. CONDUIT TO BE INSTALLED WITH PULL WIRE.
 5. CONDUITS TO BE INSTALLED FROM SUSPENDED CEILING ABOVE OFFICE 307, THRU CEILING SPACE ABOVE GYP BOARD CEILING ABOVE CORRIDOR 301, INTO EXISTING DUCT CHASE ADJACENT TO STAIR AND DOWN TO CEILING SPACE OF INDICATED AREAS. CONDUITS TO BE INSTALLED WITH PULL WIRE.
 6. CONDUITS TO ENTER NEW "EAST" CHASE, EXTEND UP, AND TURN OUT IN CEILING SPACE OF EACH FLOOR AS INDICATED. CONDUITS TO BE INSTALLED WITH PULL WIRE.
 7. ENDS OF ALL CONDUITS ARE TO BE CLOSED WITH REMOVABLE SEALS AND TAGGED "CRT".
 8. EXISTING INCOMING HI-LINE TELEPHONE CABLE ENTERING WEST BASEMENT FROM BURIED CHASE ALONG NORTH SIDE OF EXISTING BUILDING.
 9. CONNECT NEW SIX (6) PAIR TELEPHONE CABLE TO EXISTING INCOMING CABLE AND EXTEND IN 1-1/4" CONDUIT UP EXISTING CHASE TO FIRST FLOOR CEILING SPACE AS INDICATED.
 10. EXTEND CONDUIT AND CABLE IN FIRST FLOOR CEILING SPACE TO EQUIPMENT ROOM 110. REFER TO NOTE 11 FOR CONTINUATION.
 11. CONDUIT AND CABLE TO EXTEND FROM EQUIPMENT ROOM 110 TO EAST CHASE, UP EAST CHASE TO J-BOX IN SEVENTH FLOOR CEILING SPACE AS INDICATED.
 12. OPENING AROUND CONDUIT TO BE SEALED WITH ASBESTOS ROPE AND CEMENT AND ESCUTCHEONS PROVIDED PER SPECIFICATIONS.

CRT CABLE RACEWAY SYSTEM

NO SCALE
NOTE: ALSO SHOWN IS HI-LINE TELEPHONE CIRCUIT. REFER NOTES \odot 8, 9, 10, 11

PANEL "BLE" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE
LEG 1 - BLACK
LEG 2 - RED
LEG 3 - BLUE
GROUND - GREEN
NEUTRAL - WHITE

LOAD
20
20

SEPARATE GROUNDING BAR 35%

MAIN BREAKER RATING A.
A. SYM. INTER. CAP.

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

POLE NO.	SERVES	LOAD			BREAKER AMPS	POLE NO.	LEG	SERVES	LOAD			BREAKER AMPS	POLE NO.	
		1	2	3					1	2	3			
1	EXISTING LIGHTS	5			20/1	1		2	EXISTING CONV. OUT	5			20/1	2
3	EXISTING LIGHTS	5			20/1	3		4	EXIST. CONV. OUTLET	5			20/1	4
5	EXISTING LIGHTS	5			20/1	5		6	EXIST. CONV. OUTLET	5			20/1	6
7	LIFT PUMP	5			20/1	7		8	SPARE	5			20/1	8
9	SPARE	5			20/1	9		10	SPARE	5			20/1	10
11	SPARE	5			20/1	11		12	SPARE	5			20/1	12
13	SPACE				20/1	13		14	SPACE				20/1	14
15	SPACE				20/1	15		16	SPACE				20/1	16
17	SPACE				20/1	17		18	SPACE				20/1	18

PANEL "BLW" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W M.L.O. BUS RATING 100 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE
LEG 1 - BLACK
LEG 2 - RED
LEG 3 - BLUE
GROUND - GREEN
NEUTRAL - WHITE

LOAD
63
58
57

SEPARATE GROUNDING BAR 35%

MAIN BREAKER RATING A.
A. SYM. INTER. CAP.

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

POLE NO.	SERVES	LOAD			BREAKER AMPS	POLE NO.	LEG	SERVES	LOAD			BREAKER AMPS	POLE NO.	
		1	2	3					1	2	3			
1	WATER HEATER	33			50/1	1		2	SPACE				20/1	2
3	DRYER	20			30/1	3		4	CONV. OUTLETS	7			20/1	4
5	WASHER	20			30/1	5		6	CONV. OUTLETS	7			20/1	6
7	LIFT PUMP	5			20/1	7		8	SPACE				20/1	8
9	SPARE	5			20/1	9		10	CONV. OUTLETS	5			20/1	10
11	SPARE	5			20/1	11		12	EXIST. OUTLETS	5			20/1	12
13	SPACE				20/1	13		14	EXIST. OUTLETS	5			20/1	14
15	SPACE				20/1	15		16	OFFICE LIGHTS	3			20/1	16
17	SPACE				20/1	17		18	LIGHTS	9			20/1	18
19	SPACE				20/1	19		20	SPACE				20/1	20
21	SPACE				20/1	21		22	SPACE				20/1	22
23	SPACE				20/1	23		24	SPACE				20/1	24
25	SPACE				20/1	25		26	SPACE				20/1	26
27	SPACE				20/1	27		28	SPACE				20/1	28
29	SPACE				20/1	29		30	SPACE				20/1	30

PANEL "ILA" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W M.L.O. BUS RATING 100 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE
LEG 1 - BLACK
LEG 2 - RED
LEG 3 - BLUE
GROUND - GREEN
NEUTRAL - WHITE

LOAD
82
83
82

SEPARATE GROUNDING BAR 35%

MAIN BREAKER RATING A.
A. SYM. INTER. CAP.

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

POLE NO.	SERVES	LOAD			BREAKER AMPS	POLE NO.	LEG	SERVES	LOAD			BREAKER AMPS	POLE NO.	
		1	2	3					1	2	3			
1	CONV. OUTLETS	10			20/1	1		2	J-BOX (FUTURE)	8			20/1	2
3	CONV. OUTLETS	10			20/1	3		4	J-BOX (FUTURE)	8			20/1	4
5	CONV. OUTLETS	8			20/1	5		6	J-BOX (FUTURE)	8			20/1	6
7	CONV. OUTLETS	8			20/1	7		8	CONV. OUTLETS	10			20/1	8
9	CONV. OUTLETS	10			20/1	9		10	CONV. OUTLETS	10			20/1	10
11	CONV. OUTLETS	8			20/1	11		12	CONV. OUTLETS	11			20/1	12
13	CONV. OUTLETS	2			20/1	13		14	CONV. OUTLETS	11			20/1	14
15	CONV. OUTLETS	8			20/1	15		16	SPACE				20/1	16
17	CONV. OUTLETS	5			20/1	17		18	E.W.C. OUTLETS	5			20/1	18
19	CONV. OUTLETS	5			20/1	19		20	E.W.C. OUTLETS	5			20/1	20
21	J-BOX (FUTURE)	5			20/1	21		22	CONV. OUTLETS	8			20/1	22
23	J-BOX (FUTURE)	5			20/1	23		24	CONV. OUTLETS	8			20/1	24
25	J-BOX (FUTURE)	5			20/1	25		26	LOBBY 101 LIGHTS	9			20/1	26
27	J-BOX (FUTURE)	5			20/1	27		28	CORR. 114 LIGHTS	11			20/1	28
29	LOB-OFF LIGHTS	10			20/1	29		30	MTG. 111 LIGHTS	9			20/1	30
31	SPARE				20/1	31		32	TLT. 118 LIGHTS	9			20/1	32
33	SPARE				20/1	33		34	CORR. 114 LIGHTS	8			20/1	34
35	SPARE				20/1	35		36	CORR. - STOR. LTS.	9			20/1	36
37	SPARE				20/1	37		38	SPACE				20/1	38
39	SPARE				20/1	39		40	SPACE				20/1	40
41	SPARE				20/1	41		42	SPACE				20/1	42

PANEL "ILW" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W M.L.O. BUS RATING 100 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE
LEG 1 - BLACK
LEG 2 - RED
LEG 3 - BLUE
GROUND - GREEN
NEUTRAL - WHITE

LOAD
77
74
73

SEPARATE GROUNDING BAR 35%

MAIN BREAKER RATING A.
A. SYM. INTER. CAP.

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

POLE NO.	SERVES	LOAD			BREAKER AMPS	POLE NO.	LEG	SERVES	LOAD			BREAKER AMPS	POLE NO.	
		1	2	3					1	2	3			
1	XEROX MACH.	35			50/1	1		2	FLOOR OUTLET	5			20/1	2
3	XEROX MACH.	35			50/1	3		4	FLOOR OUTLET	5			20/1	4
5	LBM MACH.	24			30/1	5		6	CONV. OUTLETS	8			20/1	6
7	CUTTER	14			30/1	7		8	J-BOX (FUTURE)	5			20/1	8
9	CONV. OUTLETS	14			30/1	9		10	CONV. OUTLETS	5			20/1	10
11	CONV. OUTLETS	14			30/1	11		12	CONV. OUTLETS	8			20/1	12
13	CONV. OUTLETS	8			20/1	13		14	SPACE	10			20/1	14
15	CONV. OUTLETS	8			20/1	15		16	LIGHTS	4			20/1	16
17	CONV. OUTLETS	7			20/1	17		18	CONV. OUTLETS	10			20/1	18
19	SPARE				20/1	19		20	SPACE				20/1	20
21	SPARE				20/1	21		22	SPACE				20/1	22
23	SPARE				20/1	23		24	SPACE				20/1	24
25	SPACE				20/1	25		26	SPACE				20/1	26
27	SPACE				20/1	27		28	SPACE				20/1	28
29	SPACE				20/1	29		30	SPACE				20/1	30

PANEL "IHA" SCHEDULE

SERVICE: 277/480 V, 3Ø, 4W M.L.O. BUS RATING 300 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE
LEG 1 - BROWN
LEG 2 - YELLOW
LEG 3 - PURPLE
GROUND - GREEN
NEUTRAL - GREY

LOAD
71
71
71

SEPARATE GROUNDING BAR 35%

MAIN BREAKER RATING A.
A. SYM. INTER. CAP.

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

POLE NO.	SERVES	LOAD			BREAKER AMPS	POLE NO.	LEG	SERVES	LOAD			BREAKER AMPS	POLE NO.	
		1	2	3					1	2	3			
1	F.C.#1-6-4-4	15			20/1	1		2	F.C.#2-2-1-7	8			20/1	2
3	F.C.#2-6-4-6	15			20/1	3		4	F.C.#2-6-1-31	8			20/1	4
5	F.C.#1-4-4-5	15			20/1	5		6	F.C.#2-6-1-32	8			20/1	6
7	F.C.#1-4-2-6	8			20/1	7		8	F.C.#1-4-2-11	8			20/1	8
9	F.C.#1-4-2-7	8			20/1	9		10	F.C.#1-4-2-12	8			20/1	10
11	F.C.#1-4-2-8	8			20/1	11		12	F.C.#1-4-2-13	8			20/1	12
13	F.C.#1-4-2-9	8			20/1	13		14	F.C.#2-2-1-12	8			20/1	14
15	F.C.#1-4-2-10	8			20/1	15		16	F.C.#2-3-2-11	8			20/1	16
17	F.C.#2-4-1-33	8			20/1	17		18	F.C.#2-3-2-10	8			20/1	18
19	F.C.#2-3-2-13	8			20/1	19		20	F.C.#2-4-2-8	8			20/1	20
21	F.C.#2-2-1-15	8			20/1	21		22	F.C.#2-3-2-9	8			20/1	22
23	F.C.#2-3-2-14	8			20/1	23		24	F.C.#1-4-2-31	8			20/1	24
25	F.C.#2-6-2-34	8			20/1	25		26	SPACE				20/1	26
27	F.C.#2-6-2-35	8			20/1	27		28	SPACE				20/1	28
29	F.C.#2-6-2-36	8			20/1	29		30	SPACE				20/1	30
31	SPACE				20/1	31		32	SPACE				20/1	32
33	SPACE				20/1	33		34	SPACE				20/1	34
35	SPACE				20/1	35		36	SPACE				20/1	36

PANEL "IHB" SCHEDULE

SERVICE: 277/480 V, 3Ø, 4W M.L.O. BUS RATING 200 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE
LEG 1 - BROWN
LEG 2 - YELLOW
LEG 3 - PURPLE
GROUND - GREEN
NEUTRAL - GREY

LOAD
82
89
81

SEPARATE GROUNDING BAR 35%

MAIN BREAKER RATING A.
A. SYM. INTER. CAP.

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

POLE NO.	SERVES	LOAD			BREAKER AMPS	POLE NO.	LEG	SERVES	LOAD			BREAKER AMPS	POLE NO.	
		1	2	3					1	2	3			
1	F.C.#1-4-2-30	8			20/1	1		2	F.C.#1-4-1-27	8			20/1	2
3	F.C.#1-4-2-16	8			20/1	3		4	F.C.#1-4-1-28	8			20/1	4
5	F.C.#1-4-2-17	8			20/1	5		6	F.C.#1-4-1-29	8			20/1	6
7	F.C.#1-6-4-22	15			20/1	7		8	F.C.#1-4-2-18	8			20/1	8
9	F.C.#1-6-4-21	15			20/1	9		10	F.C.#1-6-4-15	15			20/1	10
11	F.C.#1-6-4-20	15			20/1	11		12	F.C.#2-6-2-37	8			20/1	12
13	CTR. "A" (OFF. 120LTS)	10			20/1	13		14	F.C.#2-6-2-38	8			20/1	14
15	CTR. "A" (OFF. 120LTS)	11			20/1	15		16	F.C.#1-4-2-19	8			20/1	16
17	CTR. "A" (OFF. 120LTS)	10			20/1	17		18	F.C.#1-4-4-18	15			20/1	18
19	CTR. "C" (OFF. 215LTS)	12			20/1	19		20	F.C.#2-6-2-22	8			20/1	20
21	CTR. "C" (OFF. 215LTS)	7			20/1	21		22	F.C.#2-6-2-23	8			20/1	22
23	CTS. "C" (OFF. 215LTS)	9			20/1	23		24	F.C.#2-6-2-24	8			20/1	24
25	SPACE				20/1	25		26	CORR. 115 LIGHTS	9			20/1	26
27	OFFICE 217 LIGHTS	1			20/1	27		28	MTG. RM. 111 LTS.	10			20/1	28
29	SPARE				20/1	29		30	CORR. 114 LIGHTS	4			20/1	30
31	SPARE				20/1	31		32	SPACE				20/1	32
33	SPARE				20/1	33		34	OFFICE 121 LIGHTS	7			20/1	34
35	SPACE				20/1	35		36	SPACE				20/1	36

PANEL "IHW" SCHEDULE</

PANEL "2LE" SCHEDULE

SERVICE: 120/208V., 3Ø, 4W M.L.O. BUS RATING 175 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 124
 LEG 2 - RED 126
 LEG 3 - BLUE 129
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	BATTERY CHARGER	33			50/2	1	2	EXH. FAN #2-2-81			20/1	2
3		33			2	3	4	HOT WATER HTR.	33	33	50/2	4
5	INVERTER		17		30/1	5	6	REFRIGERATOR	8	7	20/1	6
7	DIMENSION EQUIP.	17			30/1	7	8	DISH WASHER			20/1	10
9	DIMENSION EQUIP.	17			30/1	9	10	HOT PLATE		15	20/1	12
11	J-BOX (FUTURE)		5		20/1	11	14	ICE MAKER	10		20/1	14
13	J-BOX (FUTURE)		5		20/1	13	16	DISHWASHER	7		20/1	16
15	CONV. OUTLETS	5			20/1	15	18	COFFEE MAKER		20	30/1	18
17	VEND. MACH.		10		20/1	17	20	CONV. OUTLETS	20	7	20/1	22
19	VEND. MACH.		10		20/1	19	22	CONV. OUTLETS		8	20/1	24
21	VEND. MACH.		10		20/1	21	24	CONV. OUTLETS	6		20/1	26
23	CONV. OUTLETS		8		20/1	23	26	LIGHTS			20/1	28
25	CONV. OUTLETS	10			20/1	25	28	SPACE			20/1	30
27	CONV. OUTLETS		7		20/1	27	30	LIGHTS		6	20/1	32
29	CONV. OUTLETS		5		20/1	29	32	SPACE			20/1	34
31	CONV. OUTLETS	5			20/1	31	34	SPACE			20/1	36
33	SPACE				20/1	33	36	SPACE			20/1	38
35	SPACE				20/1	35	38	SPACE			20/1	40
37	SPACE				20/1	37	40	SPACE			20/1	42
39	SPACE				20/1	39						
41	SPACE				20/1	41						

PANEL "3LE" SCHEDULE

SERVICE: 120/208V., 3Ø, 4W M.L.O. BUS RATING 200 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 143
 LEG 2 - RED 148
 LEG 3 - BLUE 138
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	CONV. OUTLETS	8			20/1	1	2	CONV. OUTLETS	5		20/1	2
3	CONV. OUTLETS		8		20/1	3	4	CONV. OUTLETS		8	20/1	4
5	SPACE				20/1	5	6	CONV. OUTLETS		8	20/1	6
7	CONV. OUTLETS	5			20/1	7	8	CONV. OUTLETS	7		20/1	8
9	J-BOX (FUTURE)		10		20/1	9	10	E.W.C. OUTLET		5	20/1	10
11	J-BOX (FUTURE)		10		20/1	11	12	CONV. OUTLETS		7	20/1	12
13	STAIR LIGHTS	1			20/1	13	14	CONV. OUTLETS	7		20/1	14
15	SPACE				20/1	15	16	CONV. OUTLETS		7	20/1	16
17	SPACE				20/1	17	18	SPACE			20/1	18
19	(MACHINE ROOM)	100			125/3	19	20	A.C.C. FOR	10		20/1	20
21	AIR CONDITIONING	100			125/3	21	22	MACH. RM A/C		10	20/1	22
23	UNIT			100	3	23	24	UNIT			20/1	24
25	SPACE				20/1	25	26	SPACE			20/1	26
27	SPACE				20/1	27	28	SPACE			20/1	28
29	SPACE				20/1	29	30	SPACE			20/1	30

PANEL "2HE" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 25
 LEG 2 - YELLOW 27
 LEG 3 - PURPLE 19
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	F.C. #2-3-2-16	8			20/1	1	2	F.C. #2-2-1-18	4		20/1	2
3	F.C. #2-4-2-17		8		20/1	3	4	F.C. #2-4-2-19		8	20/1	4
5	F.C. #2-4-2-20		8		20/1	5	6	F.C. #2-3-1-39		4	20/1	6
7	LIGHTS (LOUNGE)	13			20/1	7	8	SPACE			20/1	8
9	LIGHTS (PRX.)		3		20/1	9	10	F.C. #2-4-2-21		8	20/1	10
11	LIGHTS (COFF. B)		7		20/1	11	12	SPACE			20/1	12
13	SPACE				20/1	13	14	SPACE			20/1	14
15	SPACE				20/1	15	16	SPACE			20/1	16
17	SPACE				20/1	17	18	SPACE			20/1	18
19	SPACE				20/1	19	20	SPACE			20/1	20
21	SPACE				20/1	21	22	SPACE			20/1	22
23	SPACE				20/1	23	24	SPACE			20/1	24

PANEL "3HE" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W M.L.O. BUS RATING 150 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 128
 LEG 2 - YELLOW 126
 LEG 3 - PURPLE 124
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	F.C. #3-6-4-4	15			20/1	1	2	F.C. #3-4-4-9	15		20/1	2
3	F.C. #3-4-1-7		4		20/1	3	4	F.C. #3-4-4-6		15	20/1	4
5	F.C. #3-4-1-8			4	20/1	5	6	F.C. #3-10-6-5		23	30/1	6
7	F.C. #3-4-4-10	15			20/1	7	8	F.C. #3-4-1-11		4	20/1	8
9	F.C. #3-4-4-13		15		20/1	9	10	F.C. #3-4-1-12		4	20/1	10
11	F.C. #3-4-4-14		15		20/1	11	12	F.C. #3-4-1-15		4	20/1	12
13	F.C. #3-10-4-17	16			20/1	13	14	F.C. #3-6-4-25	15		20/1	14
15	F.C. #3-10-4-18		16		20/1	15	16	F.C. #3-8-6-29		22	30/1	16
17	F.C. #3-10-4-19		16		20/1	17	18	F.C. #3-4-4-21		22	30/1	18
19	F.C. #3-10-4-16	16			20/1	19	20	F.C. #3-8-6-23	15		20/1	20
21	F.C. #3-8-6-22		22		30/1	21	22	F.C. #3-4-4-3		15	20/1	22
23	F.C. #3-8-6-20		22		30/1	23	24	CTR. #E#(OFF. LTS)		9	20/1	24
25	MACH. & OFF. LTS	8			20/1	25	26	CTR. #E#(OFF. LTS)		9	20/1	26
27	OFF. 307 LTS.		4		20/1	27	28	CTR. #E#(K.P. LTS)	9		20/1	28
29	SPACE				20/1	29	30	CTR. #E#(K.P. LTS)		9	20/1	30
31	SPACE				20/1	31	32	SPACE			20/1	32
33	SPACE				20/1	33	34	SPACE			20/1	34
35	SPACE				20/1	35	36	SPACE			20/1	36

PANEL "3LC" SCHEDULE

SERVICE: 120/240V., 3Ø, 4W M.L.O. BUS RATING 125 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 64
 LEG 2 - RED 69
 LEG 3 - BLUE 66
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1		6			30/1	1	2	DISC DRIVE	11	11	30/1	2
3	SCANNER		6		30/1	3	4	DISC DRIVE		11	30/1	4
5			6		30/1	5	6	DISC DRIVE		11	30/1	6
7			6		30/1	7	8	DISC DRIVE		11	30/1	8
9	PRINTER	8			30/1	9	10	DISC DRIVE		11	30/1	10
11			8		30/1	11	12	DISC DRIVE		11	30/1	12
13	SPACE				20/1	13	14	DISC DRIVE		11	30/1	14
15	CRT	3			20/1	15	16	DISC DRIVE		11	30/1	16
17	COLLATOR		8		20/1	17	18	DISC DRIVE		11	30/1	18
19	KEY PUNCH	5			20/1	19	20	DISC DRIVE		11	30/1	20
21	SORTER		6		20/1	21	22	DISC DRIVE		11	30/1	22
23	CARD READER		6		20/1	23	24	DISC DRIVE		11	30/1	24
25	RIBSTER	6			20/1	25	26	DISC DRIVE		11	30/1	26
27	DECOLLATOR		6		20/1	27	28	DISC DRIVE		11	30/1	28
29	CONV. OUTLETS		4		20/1	29	30	DISC DRIVE		11	30/1	30
31	CONV. OUTLETS	5			20/1	31	32	DISC DRIVE		11	30/1	32
33	CONV. OUTLETS		4		20/1	33	34	DISC DRIVE		11	30/1	34
35	CONV. OUTLETS		5		20/1	35	36	DISC DRIVE		11	30/1	36
37	SPACE				20/1	37	38	DISC DRIVE		11	30/1	38
39	SPACE				20/1	39	40	DISC DRIVE		11	30/1	40
41	SPACE				20/1	41	42	DISC DRIVE		11	30/1	42

PANEL "3LW" SCHEDULE

SERVICE: 120/208V., 3Ø, 4W M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 28
 LEG 2 - RED 19
 LEG 3 - BLUE 17
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	CONV. OUTLETS	8			20/1	1	2	TILT HTR (MEN)			20/1	2
3	CONV. OUTLETS		7		20/1	3	4	TILT HTR (WOMEN)	9	9	20/1	4
5	CONV. OUTLETS		8		20/1	5	6	CORR. LIGHTS		9	20/1	6
7	TILT LIGHTS	11			20/1	7	8	SPACE			20/1	8
9	SPACE				20/1	9	10	SPACE			20/1	10
11	SPACE				20/1	11	12	SPACE			20/1	12

PANEL "3HW" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 45
 LEG 2 - YELLOW 35
 LEG 3 - PURPLE 23
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	F.C. #3-10-6-1	23			30/1	1	2	SPACE			20/1	2
3	F.C. #3-10-6-2		23		30/1	3	4	SPACE			20/1	4
5	F.C. #3-10-6-27			23	30/1	5	6	SPACE			20/1	6
7	F.C. #3-8-6-26	22			30/1	7	8	SPACE			20/1	8
9	LIGHTS		12		20/1	9	10	SPACE			20/1	10

* PANEL TO HAVE 125A, 240V, 3P MOLDED CASE MAIN SWITCH



RENOVATION BUILDING UTILITIES COMPANY TEXAS
 MAIN WEST TEXAS UTILITIES COMPANY A BILENE TEXAS

PANEL "4LE" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 31
 LEG 2 - RED 31
 LEG 3 - BLUE 33
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	10			20/1	1	2	CONV. OUTLETS	8			20/1	2
3	CONV. OUTLETS		10		20/1	3	4	CONV. OUTLETS		10		20/1	4
5	CONV. OUTLETS			10	20/1	5	6	E.W.C. OUTLET			5	20/1	6
7	CONV. OUTLETS	10			20/1	7	8	OFFICE LIGHTS	3			20/1	8
9	J-BOX (FUTURE)		10		20/1	9	10	STAIR LIGHTS		1		20/1	10
11	J-BOX (FUTURE)			10	20/1	11	12	OFFICE LIGHTS			3	20/1	12
13	SPARE				20/1	13	14	SPACE				20/1	14
15	SPARE				20/1	15	16	SPACE				20/1	16
17	CONV. OUTLETS			5	20/1	17	18	SPACE				20/1	18
19	SPACE				20/1	19	20	SPACE				20/1	20
21	SPACE				20/1	21	22	SPACE				20/1	22
23	SPACE				20/1	23	24	SPACE				20/1	24

PANEL "4LW" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 20
 LEG 2 - RED 35
 LEG 3 - BLUE 18
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	11			20/1	1	2	TLT. HTR. (MEN)	9			20/1	2
3	CONV. OUTLETS		10		20/1	3	4	TLT. HTR. (WOMEN)		9		20/1	4
5	TLT. LIGHTS			9	20/1	5	6	CORR. LIGHTS			9	20/1	6
7	SPARE				20/1	7	8	SPACE				20/1	8
9	SPARE				20/1	9	10	SPACE				20/1	10
11	SPACE				20/1	11	12	SPACE				20/1	12

PANEL "4HE" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W M.L.O. BUS RATING 150 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 120
 LEG 2 - YELLOW 119
 LEG 3 - PURPLE 118
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #4-6-4-7	15			20/1	1	2	F.C. #4-6-6-16	22			20/1	2
3	F.C. #4-6-4-8		15		20/1	3	4	F.C. #4-6-6-17		22		20/1	4
5	F.C. #4-6-4-9			15	20/1	5	6	F.C. #4-6-6-15			22	20/1	6
7	F.C. #4-4-1-22	4			20/1	7	8	F.C. #4-10-6-4	23			20/1	8
9	F.C. #4-4-1-25		4		20/1	9	10	F.C. #4-10-6-5		15		20/1	10
11	F.C. #4-4-1-23			4	20/1	11	12	F.C. #4-10-6-6			15	20/1	12
13	F.C. #4-4-1-24	4			20/1	13	14	F.C. #4-6-4-10	15			20/1	14
15	F.C. #4-8-6-13		22		20/1	15	16	F.C. #4-8-6-11		22		20/1	16
17	F.C. #4-4-4-14			15	20/1	17	18	F.C. #4-8-6-12			22	20/1	18
19	F.C. #4-4-4-26	15			20/1	19	20	F.C. #4-4-1-20	4			20/1	20
21	F.C. #4-6-2-3		8		20/1	21	22	SPACE				20/1	22
23	OFFICE LIGHTS			13	20/1	23	24	F.C. #4-4-1-21		4		20/1	24
25	CTR. "H"(SO LIGHTS)	10			20/1	25	26	SPACE				20/1	26
27	CTR. "H"(SO LIGHTS)		10		20/1	27	28	OFFICE LIGHTS		1		20/1	28
29	CTR. "H"(SO LIGHTS)			10	20/1	29	30	CTR. "H"(NORTH LTS)			8	20/1	30
31	SPARE				20/1	31	32	CTR. "H"(NORTH LTS)	8			20/1	32
33	SPARE				20/1	33	34	SPACE				20/1	34
35	SPARE				20/1	35	36	SPACE				20/1	36

PANEL "4HW" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 45
 LEG 2 - YELLOW 35
 LEG 3 - PURPLE 23
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #4-10-6-1	23			30/1	1	2	SPARE				20/1	2
3	F.C. #4-10-6-2		23		30/1	3	4	SPARE				20/1	4
5	F.C. #4-10-6-19			23	30/1	5	6	SPACE				20/1	6
7	F.C. #4-8-6-18	22			30/1	7	8	SPACE				20/1	8
9	LIGHTS		12		20/1	9	10	SPACE				20/1	10

PANEL "5LE" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 41
 LEG 2 - RED 36
 LEG 3 - BLUE 35
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	J-Box	10			20/1	1	2	CONV. OUTLETS	10			20/1	2
3	J-Box		10		20/1	3	4	CONV. OUTLETS		10		20/1	4
5	J-Box			10	20/1	5	6	CONV. OUTLETS			10	20/1	6
7	CONV. OUTLETS	2			20/1	7	8	CONV. OUTLETS	11			20/1	8
9	E.W.C. OUTLET		5		20/1	9	10	CONV. OUTLETS		8		20/1	10
11	OFFICE LIGHTS			5	20/1	11	12	CONV. OUTLETS			10	20/1	12
13	STAIR LIGHTS	1			20/1	13	14	CONV. OUTLETS	7		10	20/1	14
15	OFFICE LIGHTS		3		20/1	15	16	SPACE				20/1	16
17	SPARE				20/1	17	18	SPACE				20/1	18
19	SPARE				20/1	19	20	SPACE				20/1	20
21	SPARE				20/1	21	22	SPACE				20/1	22
23	SPACE				20/1	23	24	SPACE				20/1	24

PANEL "5LW" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 25
 LEG 2 - RED 20
 LEG 3 - BLUE 21
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	8			20/1	1	2	TLT. HTR. (MEN)	9			20/1	2
3	TLT. LIGHTS		10		20/1	3	4	CONV. OUTLETS		10		20/1	4
5	CORR. LIGHTS			9	20/1	5	6	TLT. HTR. (WOMEN)			9	20/1	6
7	SPACE				20/1	7	8	CONV. OUTLETS	8			20/1	8
9	SPACE				20/1	9	10	SPACE				20/1	10
11	SPACE				20/1	11	12	OFFICE LIGHTS			3	20/1	12

PANEL "5HE" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W M.L.O. BUS RATING 150 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 125
 LEG 2 - YELLOW 122
 LEG 3 - PURPLE 122
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #5-6-4-7	15			20/1	1	2	F.C. #5-6-6-16	22			20/1	2
3	F.C. #5-6-4-8		15		20/1	3	4	F.C. #5-6-6-17		22		20/1	4
5	F.C. #5-6-4-9			15	20/1	5	6	F.C. #5-6-6-15			22	20/1	6
7	F.C. #5-4-1-22	4			20/1	7	8	F.C. #5-10-6-4	23			20/1	8
9	F.C. #5-4-1-25		4		20/1	9	10	F.C. #5-10-6-5		15		20/1	10
11	F.C. #5-4-1-23			4	20/1	11	12	F.C. #5-10-6-6			15	20/1	12
13	F.C. #5-4-1-24	4			20/1	13	14	F.C. #5-6-4-10	15			20/1	14
15	F.C. #5-8-6-13		22		20/1	15	16	F.C. #5-8-6-11		22		20/1	16
17	F.C. #5-4-4-14			15	20/1	17	18	F.C. #5-8-6-12			22	20/1	18
19	F.C. #5-4-4-26				20/1	19	20	F.C. #5-4-1-20	4			20/1	20
21	F.C. #5-6-2-3		8		20/1	21	22	OFFICE LIGHTS		4		20/1	22
23	F.C. #5-4-4-27			15	20/1	23	24	F.C. #5-4-1-21			4	20/1	24
25	CTR. "H"(SO LIGHTS)	10			20/1	25	26	CTR. "H"(SO LIGHTS)	13			20/1	26
27	CTR. "H"(SO LIGHTS)		10		20/1	27	28	SPACE				20/1	28
29	CTR. "H"(SO LIGHTS)			10	20/1	29	30	SPACE				20/1	30
31	SPARE				20/1	31	32	SPACE				20/1	32
33	SPARE				20/1	33	34	SPACE				20/1	34
35	SPARE				20/1	35	36	SPACE				20/1	36

PANEL "5HW" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 45
 LEG 2 - YELLOW 35
 LEG 3 - PURPLE 23
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED MAIN BREAKER RATING --- A. A. SYM. INTER. CAP.

POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	SERVES	LOAD			BREAKER AMPS POLES	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #5-10-6-1	23			30/1	1	2	SPARE				20/1	2
3	F.C. #5-10-6-2		23		30/1	3	4	SPARE				20/1	4
5	F.C. #5-10-6-19			23	30/1	5	6	SPACE				20/1	6
7	F.C. #5-10-6-18	22			30/1	7	8	SPACE				20/1	8
9	LIGHTS		10		20/1	9	10	SPACE				20/1	10



WILLIAMS, TIPPETT & ASSOC., INC.
 CONSULTING ENGINEERS
 ABILENE, TEXAS

RENOVATION BUILDING UTILITIES COMPANY TEXAS
 WEST TEXAS UTILITIES COMPANY TEXAS
 ABILENE

PANEL "6LE" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W. M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 35
 LEG 2 - RED 36
 LEG 3 - BLUE 38
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	10			20/1	1	2	CONV. OUTLETS	8			20/1	2
3	CONV. OUTLETS	10			20/1	3	4	CONV. OUTLETS	8			20/1	4
5	CONV. OUTLETS		10		20/1	5	6	CONV. OUTLETS		10		20/1	6
7	J-BOX (FUTURE)	8			20/1	7	8	SPACE				20/1	8
9	J-BOX (FUTURE)	8			20/1	9	10	CONV. OUTLETS		10		20/1	10
11	CONV. OUTLETS		8		20/1	11	12	E.W.C. OUTLET		5		20/1	12
13	CONV. OUTLETS	8			20/1	13	14	STAIR LIGHTS	1			20/1	14
15	SPARE				20/1	15	16	SPACE				20/1	16
17	SPARE				20/1	17	18	OFFICE LIGHTS		5		20/1	18
19	SPARE				20/1	19	20	SPACE				20/1	20
21	SPACE				20/1	21	22	SPACE				20/1	22
23	SPACE				20/1	23	24	SPACE				20/1	24

PANEL "6LW" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W. NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE. M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 21
 LEG 2 - RED 20
 LEG 3 - BLUE 25
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	10			20/1	1	2	SPACE			20/1	2	
3	CONV. OUTLETS		8		20/1	3	4	TLT. HTR. (MEN)		9		20/1	4
5	TLT. HTR. (WOMEN)			9	20/1	5	6	CONV. OUTLETS			7	20/1	6
7	TLT. LIGHTS		11		20/1	7	8	SPACE			20/1	8	
9	OFFICE LIGHTS			3	20/1	9	10	SPACE			20/1	10	
11	CORRIDOR LIGHTS			9	20/1	11	12	SPACE			20/1	12	

PANEL "6HE" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W. M.L.O. BUS RATING 150 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 123
 LEG 2 - YELLOW 118
 LEG 3 - PURPLE 124
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #6-6-17	22			30/1	1	2	F.C. #6-6-4-7	15			30/1	2
3	F.C. #6-6-16		22		30/1	3	4	F.C. #6-6-4-8		15		30/1	4
5	F.C. #6-6-15			22	30/1	5	6	F.C. #6-6-4-9			15	30/1	6
7	F.C. #6-10-6-4	23			30/1	7	8	F.C. #6-6-4-10			15	30/1	8
9	F.C. #6-6-4-5		15		20/1	9	10	F.C. #6-6-6-11		22		30/1	10
11	F.C. #6-6-4-6			15	20/1	11	12	F.C. #6-6-6-12			22	30/1	12
13	F.C. #6-4-4-14	15			20/1	13	14	F.C. #6-4-1-20	4			20/1	14
15	F.C. #6-8-6-13		22		30/1	15	16	F.C. #6-4-1-21		4		20/1	16
17	F.C. #6-4-4-25			15	20/1	17	18	F.C. #6-6-4-22			15	20/1	18
19	F.C. #6-6-2-3	8			20/1	19	20	F.C. #6-4-4-24	4			20/1	20
21	CTR "K" (SO. LIGHTS)		10		20/1	21	22	SPACE				20/1	22
23	CTR "K" (SO. LIGHTS)			12	20/1	23	24	F.C. #6-4-1-23			4	20/1	24
25	CTR "K" (SO. LIGHTS)	9			20/1	25	26	CTR "L" NORTH LIGHTS	8			20/1	26
27	SPARE				20/1	27	28	CTR "L" NORTH LIGHTS		8		20/1	28
29	SPARE				20/1	29	30	OFFICE LIGHTS			4	20/1	30
31	SPACE				20/1	31	32	SPACE				20/1	32
33	SPACE				20/1	33	34	SPACE				20/1	34
35	SPACE				20/1	35	36	SPACE				20/1	36

PANEL "6HW" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W. NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE. M.L.O. BUS RATING 70 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 45
 LEG 2 - YELLOW 33
 LEG 3 - PURPLE 23
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	F.C. #6-10-6-1	23			30/1	1	2	SPACE			20/1	2
3	F.C. #6-10-6-2		23		30/1	3	4	SPACE			20/1	4
5	F.C. #6-10-6-19			23	30/1	5	6	SPACE			20/1	6
7	F.C. #6-8-6-18	22			30/1	7	8	SPACE			20/1	8
9	LIGHTS			10	20/1	9	10	SPACE			20/1	10

PANEL "7LE" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W. M.L.O. BUS RATING 125 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 106
 LEG 2 - RED 101
 LEG 3 - BLUE 105
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	10			20/1	1	2	CONV. OUTLETS	11			20/1	2
3	CONV. OUTLETS		11		20/1	3	4	CONV. OUTLETS		10		20/1	4
5	CONV. OUTLETS			11	20/1	5	6	CONV. OUTLETS		8		20/1	6
7	CONV. OUTLETS	10			20/1	7	8	CONV. OUTLETS	10			20/1	8
9	CONV. OUTLETS		10		20/1	9	10	CONV. OUTLETS		10		20/1	10
11	CONV. OUTLETS			10	20/1	11	12	ELECT. W.H. (720)			29	20/1	12
13	TLT. HTR.	13			20/1	13	14				2	20/1	14
15	E.W.C. OUTLET		5		20/1	15	16	ELECT. W.H. (710)		29		20/1	16
17	EXH. FANS			2	20/1	17	18				2	20/1	18
19	SPACE				20/1	19	20	LIGHTS	13			20/1	20
21	SCREEN				20/1	21	22	LIGHTS		13		20/1	22
23	STAIR LIGHTS			1	20/1	23	24	LIGHTS			5	20/1	24
25	SPARE				20/1	25	26	LIGHTS	10			20/1	26
27	SPARE				20/1	27	28	LIGHTS		9		20/1	28
29	SPARE				20/1	29	30	LIGHTS			9	20/1	30
31	SPACE				20/1	31	32	SPACE				20/1	32
33	SPACE				20/1	33	34	SPACE				20/1	34
35	SPACE				20/1	35	36	SPACE				20/1	36

PANEL "7LW" SCHEDULE

SERVICE: 120/208V, 3Ø, 4W. NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE PANEL. M.L.O. BUS RATING 50 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BLACK 106
 LEG 2 - RED 101
 LEG 3 - BLUE 105
 GROUND - GREEN
 NEUTRAL - WHITE

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	CONV. OUTLETS	10			20/1	1	2	TLT. HTR. (MEN)		9		20/1	2
3	CONV. OUTLETS		10		20/1	3	4	TLT. HTR. (WOMEN)		9		20/1	4
5	CONV. OUTLETS			8	20/1	5	6	CORR. LIGHTS			6	20/1	6
7	SPACE				20/1	7	8	SPACE			20/1	8	
9	SPACE				20/1	9	10	SPACE			20/1	10	
11	SPACE				20/1	11	12	TLT. LIGHTS			8	20/1	12

PANEL "7HE" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W. M.L.O. BUS RATING 225 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 173
 LEG 2 - YELLOW 172
 LEG 3 - PURPLE 172
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #7-6-4-5	15			20/1	1	2	F.C. #7-6-4-4	15			20/1	2
3	F.C. #7-6-4-7		15		20/1	3	4	F.C. #7-6-4-6		15		20/1	4
5	F.C. #7-6-4-8			15	20/1	5	6	F.C. #7-6-4-28			15	20/1	6
7	F.C. #7-6-4-9	15			20/1	7	8	F.C. #7-6-4-29	15			20/1	8
9	F.C. #7-6-4-10		15		20/1	9	10	F.C. #7-6-4-31		15		20/1	10
11	F.C. #7-6-4-11			15	20/1	11	12	F.C. #7-6-4-32			15	20/1	12
13	F.C. #7-6-4-12	15			20/1	13	14	F.C. #7-6-4-17	15			20/1	14
15	F.C. #7-6-4-13		15		20/1	15	16	F.C. #7-6-4-18		15		20/1	16
17	F.C. #7-6-4-33			15	20/1	17	18	F.C. #7-6-4-37			15	20/1	18
19	F.C. #7-10-6-14	23			30/1	19	20	F.C. #7-6-4-21	15			20/1	20
21	F.C. #7-8-4-16		15		30/1	21	22	F.C. #7-8-4-19		22		30/1	22
23	F.C. #7-10-6-35			23	30/1	23	24	F.C. #7-6-4-20			15	20/1	24
25	F.C. #7-4-2-30	8			20/1	25	26	F.C. #7-8-4-38	15			20/1	26
27	F.C. #7-10-6-35		23		30/1	27	28	OFFICE LIGHTS		9		20/1	28
29	F.C. #7-10-6-36			23	30/1	29	30	OFFICE LIGHTS			9	20/1	30
31	TLT. HTR.	6			20/1	31	32	CTR "M" (CORR. LTS.)			7	20/1	32
33	#1-81		6		20/1	33	34	CTR "M" (CORR. LTS.)			7	20/1	34
35	FREEZE PROTECTION			6	20/1	35	36	OFFICE LIGHTS			6	20/1	36
37	SPACE				20/1	37	38	OFFICE LIGHTS			9	20/1	38
39	SPACE				20/1	39	40	SPACE				20/1	40
41	SPACE				20/1	41	42	SPACE				20/1	42

PANEL "7HW" SCHEDULE

SERVICE: 277/480 V., 3Ø, 4W. NOTE: PANEL TO BE SINGLE WIDTH "COLUMN" TYPE PANEL. M.L.O. BUS RATING 100 A.

MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.

CONDUCTOR COLOR CODE LOAD
 LEG 1 - BROWN 57
 LEG 2 - YELLOW 44
 LEG 3 - PURPLE 44
 GROUND - GREEN
 NEUTRAL - GREY

SEPARATE GROUNDING BAR 35%

PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION

MAIN BREAKER OR MAIN LUGS ONLY AS INDICATED

POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	
		1	2	3				1	2	3			
1	F.C. #7-8-6-1	22			30/1	1	2	F.C. #7-10-6-27	23			30/1	2
3	F.C. #7-8-6-2		22		30/1	3	4	F.C. #7-6-4-26		22		30/1	4
5	F.C. #7-8-6-3			22	30/1	5	6	F.C. #7-8-6-24			22	30/1	6
7	LIGHTS	12			20/1	7	8	SPACE			20/1	8	
9	SPACE</												

DEVICE NO.	DEVICE VOLTAGE RATING	CIRCUIT BREAKER				MAGNETIC CONTACTOR				REMARKS
		TRIP AMPS	FRAME AMPS	NO. POLES	INT. ASYM. CAP. AMPS.	STARTER SIZE	START-STOP PUSH-BUTTON MAINTAINING CONTACT	HAND-OFF AUTO	RED-PILOT LIGHT	
1	460	80	100	3	10,000	-	-	-	-	WATER CHILLER # 3-81
2	460	50	100	3	10,000	3	REQUIRED	-	REQUIRED	CHILLED WATER PUMP # 1-81
3	460	50	100	3	10,000	3	REQUIRED	-	REQUIRED	CHILLED WATER PUMP # 2-81
4	460	20	60	3	10,000	1	REQUIRED	-	REQUIRED	CHILLED WATER PUMP # 3-81
5	460	40	100	3	10,000	2	-	REQUIRED	REQUIRED	CONDENSER WATER PUMP # 1-81
6	460	40	100	3	10,000	2	-	REQUIRED	REQUIRED	CONDENSER WATER PUMP # 2-81
7	460	15	30	3	10,000	1	-	REQUIRED	REQUIRED	CONDENSER WATER PUMP # 3-81
8	460	25	60	3	10,000	2	-	REQUIRED	REQUIRED	COOLING TOWER # 1-81 FAN
9	460	25	60	3	10,000	2	-	REQUIRED	REQUIRED	COOLING TOWER # 2-81 FAN
10	460	15	30	3	10,000	0	REQUIRED	-	REQUIRED	TEMPERATURE CONTROL AIR COMPRESSOR
11	460	15	30	3	10,000	0	REQUIRED	-	REQUIRED	TEMPERATURE CONTROL AIR COMPRESSOR
12	460	15	30	3	10,000	0	-	REQUIRED	REQUIRED	EXHAUST FAN # 1-5-81

* STARTERS FOR COOLING TOWER FANS TO BE TWO SPEED STARTERS SUITABLE FOR OPERATING THE TWO SPEED COOLING TOWER FAN MOTORS

PANELBOARD "LV" SCHEDULE									
SERVICE: 120/208V., 3Ø, 4W.					MAIN LUG RATING 1000 A.				
MAIN FUSE RATING: 1000 A.					TYPE MOUNTING FLOOR				
DEVICE NO.	SERVES	SWITCH HP OR AMP RATING	FUSE SIZE	LOAD AMP/LEG			CONDUCTOR & CONDUIT		
				1	2	3			
1	PANEL 7LE	200	125	106	101	105	4-#1'S, 1-#6 GR. 2-1/2" C.		
2	PANEL 6LE	100	70	35	35	38	4-#6'S, 1-#8 GR. 1-1/4" C.		
3	PANEL 5LE	100	70	41	35	35	4-#6'S, 1-#8 GR. 1-1/4" C.		
4	PANEL 4LE	100	70	31	31	33	4-#6'S, 1-#8 GR. 1-1/4" C.		
5	PANEL 3LE	200	200	143	148	141	4-#3/0'S, 1-#6 GR. 2-1/2" C.		
6	PANEL 3LC	200	125	64	69	66	4-#1'S, 1-#6 GR. 2" C.		
7	PANEL 2LE	200	175	124	126	129	4-2/0'S, 1-#6 GR. 2" C.		
8	PANEL 1LA	100	100	82	83	82	4-#3'S, 1-#8 GR. 1-1/2" C.		
9	PANEL BLE	60	50	20	20	20	4-#8'S, 1-#10 GR. 1" C.		
10	PANEL PLW	60	50	21	21	21	4-#8'S, 1-#10 GR. 1" C.		
11	PANEL 7LW	60	50	19	19	22	4-#8'S, 1-#10 GR. 1" C.		
12	PANEL 6LW	60	50	21	20	25	4-#8'S, 1-#10 GR. 1" C.		
13	PANEL 5LW	60	50	25	20	21	4-#8'S, 1-#10 GR. 1" C.		
14	PANEL 4LW	60	50	20	19	18	4-#8'S, 1-#10 GR. 1" C.		
15	PANEL 3LW	60	50	28	16	17	4-#8'S, 1-#10 GR. 1" C.		
16	PANEL 1LW	100	100	77	74	73	4-#3'S, 1-#8 GR. 1-1/2" C.		
17	PANEL BLW	100	100	63	58	57	4-#3'S, 1-#8 GR. 1-1/2" C.		
18	PANEL EQL	100	70	34	32	39	4-#6'S, 1-#8 GR. 1-1/4" C.		
19	SPACE	200							
20	SPACE	100							

FUSED SWITCHBOARD "HV" SCHEDULE									
SERVICE: 277/480V., 3Ø, 4W					MAIN LUG RATING 2000 A.				
MAIN SWITCH: BOLTED PRESSURE CONTACT SWITCH WITH 2000 A FUSES					TYPE MOUNTING FLOOR				
DEVICE NO.	SERVES	SWITCH HP OR AMP RATING	FUSE SIZE	LOAD AMP/LEG			CONDUCTOR & CONDUIT		
				1	2	3			
1	CHILLER # 1-81	400	*	192	192	192	3-250 MCM'S, 1-#3 GR. 2-1/2" C.		
2	CHILLER # 2-81	400	*	192	192	192	3-250 MCM'S, 1-#3 GR. 2-1/2" C.		
3	MOTOR CONTROL CENTER	400	300	231	231	231	3-300 MCM'S, 1-#4 GR. 3" C.		
4	D.T.T. # 1-81	600	500	332	332	332	3-250 MCM'S, 1-#2 GR. 1N EA. OF 2-2-1/2" C.		
5	R.T. A.H.U. # 1-81	400	250	196	196	196	3-250 MCM'S, 1-#4 GR. 2-1/2" C.		
6	PANEL 7HE	400	225	173	172	172	4-4/0'S, 1-#6 GR. 2-1/2" C.		
7	PANEL 6HE	200	150	123	118	124	4-1/0'S, 1-#6 GR. 2" C.		
8	PANEL 5HE	200	150	125	122	122	4-1/0'S, 1-#6 GR. 2" C.		
9	PANEL 4HE	200	150	120	119	118	4-1/0'S, 1-#6 GR. 2" C.		
10	PANEL 3HE	200	150	128	123	124	4-1/0'S, 1-#6 GR. 2" C.		
11	PANEL 2HE	60	50	25	27	19	4-#8'S, 1-#10 GR. 1-1/4" C.		
12	PANELS 1HA, 1HB	200	200	153	160	152	4-3/0'S, 1-#6 GR. 2-1/2" C.		
13	ELEVATOR CIRCUIT	100	90	48	48	48	4-#4'S, 1-#8 GR., 1-1/2" C.		
14	PANEL 7HW	100	100	57	44	44	4-#3'S, 1-#8 GR., 1-1/2" C.		
15	PANEL 6HW	100	70	45	33	23	4-#6'S, 1-#8 GR. 1-1/4" C.		
16	PANEL 5HW	100	70	45	33	23	4-#6'S, 1-#8 GR. 1-1/4" C.		
17	PANEL 4HW	100	70	45	35	23	4-#6'S, 1-#8 GR. 1-1/4" C.		
18	PANEL 3HW	100	70	45	35	23	4-#6'S, 1-#8 GR. 1-1/4" C.		
19	PANEL 1HW	100	100	66	74	75	4-#3'S, 1-#8 GR. 1-1/2" C.		
20	PANEL EQH	100	60	27	26	23	4-#6'S, 1-#10 GR. 1-1/4" C.		
21	SPACE	200							
22	SPACE	200							

* FUSE SHALL BE OF THE TYPE AND SIZE DIRECTED BY EQUIPMENT MANUFACTURER AND APPROVED BY ENGINEER

PANEL "EQL" SCHEDULE												
SERVICE: 120/208V., 3Ø, 4W.					M.L.O. BUS RATING 70 A.							
MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.					MAIN BREAKER RATING - A.							
					A SYM. INTER. CAP.							
CONDUCTOR COLOR CODE					LOAD							
PHASE 1 - BLACK					34							
PHASE 2 - RED					32							
PHASE 3 - BLUE					39							
GROUND OR NEUTRAL - WHITE					SEPARATE GROUNDING BAR 35%							
PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION.												
POLE NO.	SERVES	LOAD PHASE			BREAKER AMPS	POLE NO.	SERVES	LOAD PHASE			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	IMM. HTR. C. TWR#1-81	5	20/1		20/1	1	2	FIRE SYS TAMP. SW.			20/1	2
3	IMM. HTR. C. TWR#1-81	5	20/1		20/1	3	4	FIRE SYS TAMP. SW.			20/1	4
5	IMM. HTR. C. TWR#1-81	5	20/1		20/1	5	6	FIRE SYS TAMP. SW.			20/1	6
7	IMM. HTR. C. TWR#1-81	5	20/1		20/1	7	8	FIRE SYS TAMP. SW.			20/1	8
9	IMM. HTR. C. TWR#1-81	5	20/1		20/1	9	10	FIRE SYS TAMP. SW.			20/1	10
11	IMM. HTR. C. TWR#2-81	5	20/1		20/1	11	12	EXTERIOR LIGHTS			20/1	12
13	IMM. HTR. C. TWR#2-81	5	20/1		20/1	13	14	WATER FLOW ALARM	2		20/1	14
15	IMM. HTR. C. TWR#2-81	5	20/1		20/1	15	16	CONV. OUTLETS		10	20/1	16
17	IMM. HTR. C. TWR#2-81	5	20/1		20/1	17	18	CONV. OUTLETS		10	20/1	18
19	IMM. HTR. C. TWR#2-81	5	20/1		20/1	19	20	REFRIG. DRYER	5		20/1	20
21	CHEM. FEED PUMP	2	20/1		20/1	21	22	EXH. FAN # 1-3-81	1		20/1	22
23	CHEM. ABATOR PUMP	2	20/1		20/1	23	24	EXH. FAN # 1-4-81	1		20/1	24
25	CHEM. FEED CONTROLS	2	20/1		20/1	25	26	CHEM. FEED PUMP	2		20/1	26
27	CHEM. FEED CONTROL	2	20/1		20/1	27	28	CHEM. ABATOR PUMP	2		20/1	28
29	SPACE		20/1		20/1	29	30	CHEM. FEED CONTROLS	2		20/1	30
31	TEMP. CONTROL PNL	1	20/1		20/1	31	32	CHEM. FEED CONTROLS	2		20/1	32
33	SPARE		20/1		20/1	33	34	VIBRATION SENSOR			20/1	34
35	SPARE		20/1		20/1	35	36	VIBRATION SENSOR			20/1	36
37	SPARE		20/1		20/1	37	38	SPACE			20/1	38
39	SPACE		20/1		20/1	39	40	SPACE			20/1	40
41	SPACE		20/1		20/1	41	42	SPACE			20/1	42

* REFER TO "EQUIPMENT ROOM ROOF PLAN", SHEET M-9
 ** REFER TO "FIRE PROTECTION EQUIPMENT & PIPING-EQUIPMENT ROOM", SHEET P-11
 REFER TO "FIRE DETECTION SYSTEM" SPECIFICATION, ART 168-43

PANEL "EQH" SCHEDULE												
SERVICE: 277/480 V., 3Ø, 4W					M.L.O. BUS RATING 60 A.							
MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY RATING (SYMMETRICAL) 10,000 A.					MAIN BREAKER RATING - A.							
					A SYM. INTER. CAP.							
CONDUCTOR COLOR CODE					LOAD							
LEG 1 - BROWN					27							
LEG 2 - YELLOW					26							
GROUND - GREEN					23							
NEUTRAL - GREY					SEPARATE GROUNDING BAR 35%							
PANEL MAY BE TOP OR BOTTOM FEED AT CONTRACTORS OPTION.												
POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.	SERVES	LOAD LEG			BREAKER AMPS	POLE NO.
		1	2	3				1	2	3		
1	UNIT HEATER # 1-81	6			20	1	2	UNIT HEATER # 2-81	6		20	2
3			6		20	3	4			6	20	4
5				6	20	5	6			6	20	6
7	LIGHTS	3			20/1	7	8	HT. CABLE-E CHS			20/1	8
9	SPACE				20/1	9	10	HT. CABLE-E CHR			20/1	10
11	LIGHTS		2		20/1	11	12	HT. CABLE-E COND D		3	20/1	12
13	SPARE				20/1	13	14	HT. CABLE-W COND D	4		20/1	14
15	SPARE				20/1	15	16	HT. CABLE-W CHS		6	20/1	16
17	SPARE				20/1	17	18	HT. CABLE-W CHR		6	20/1	18
19	SPACE				20/1	19	20	SPACE			20/1	20
21	SPACE				20/1	21	22	SPACE			20/1	22
23	SPACE				20/1	23	24	SPACE			20/1	24



RENOVATION BUILDING UTILITIES COMPANY TEXAS ABILENE

DRY TYPE TRANSFORMER SCHEDULE											
TRANSFORMER DESIGNATION	KVA RATING	PRIMARY					SECONDARY			MAX. NOISE LEVEL D. B.	TYPE MOUNTING
		VOLTS	AMPS	PHASE	TAPS BELOW NORMAL	TAPS ABOVE NORMAL	VOLTS	AMPS	PHASE		
D.T.T. # 1-81	300	480	361	3	2-2-1/2%	2-2-1/2%	120/208	833	3	45	FLOOR

NOTE: TRANSFORMER TO HAVE MINIMUM CLASS 80 DEG. C. INSULATION PER N.E.C. 450-21

LIGHTING FIXTURE SCHEDULE						
MARK	MANUFACTURER & CAT. NO.	FIXT. TYPE	MTG.	LAMP & TYPE	REMARKS	VOLTS
A	LIGHTOLIER # 11600	FLUORESCENT	RECESS	4-35 R.S.	LAY-IN 2X4, 0.125 ACRYLIC LENS	277
B	LIGHTOLIER # 7054	INCANDESCENT	RECESS	1-150W A-21	CLEAR ALZAK CONE	120
C	LIGHTOLIER # 6770	INCANDESCENT	SURFACE	1-100W A-19	LEXAN LENS	120
D	LIGHTOLIER # 7701	INCANDESCENT	RECESS	1-50W R-20	CLEAR ALZAK CONE	120
E	LIGHTOLIER # 6776	INCANDESCENT	WALL	1-75W A-19	LEXAN LENS	120
F	PRESCOLITE ER-6L	FLUORESCENT	RECESS	2-F8T6	2 CIRCUIT FIXTURE	277
G	PRESCOLITE ER-6R	FLUORESCENT	RECESS	2-F8T6	2 CIRCUIT FIXTURE	277
H	PRESCOLITE ER-6LR	FLUORESCENT	RECESS	2-F8T6	2 CIRCUIT FIXTURE	277
I	PRESCOLITE ER-6	FLUORESCENT	RECESS	2-F8T6	2 CIRCUIT FIXTURE	277
J	LITHONIA S140 HRS 277 ACL	FLUORESCENT	SURFACE	1-40 W.R.S.	STRIP, REF. NOTE 1	277
K	LITHONIA UN 296	FLUORESCENT	SURFACE	2-F96T12	STRIP	120
L	ALKCO 3145	FLUORESCENT	SURFACE	1-40W R.S.	UNDER COUNTER	277
M	MOLDCAST PARACYL	HPS	SURFACE	1-400W HPS	PROJECTING LENS	120
N	MOLDCAST PARACYL	HPS	SURFACE	1-100W HPS	PROJECTING LENS	120
O	DELETED					
P	LITHONIA L 240	FLUORESCENT	STEM	2-40W R.S.	REFER NOTE 2	277
Q	LITHONIA LB 440A	FLUORESCENT	SURFACE	4-35W R.S.	ACRYLIC PRISMATIC LENS	277
R	LIGHTOLIER # 11600	FLUORESCENT	RECESS	4-35W R.S.	GYP BD. CEILING FRAME 0.125 LENS	277

1. FIXTURES TO HAVE LOW HEAT (HIGH AMBIENT BALLAST).
2. TYPE "Q" FIXTURES TO BE FURNISHED WITH STEM MOUNTING ASSEMBLY, FIXTURES TO BE MOUNTED AFTER ALL PIPE WORK INSTALLED.

ELECTRIC HEATER SCHEDULE						
UNIT DESIGNATION	OUTPUT BTU/HR	KW	VOLTS	AMPS	PHASE	REMARKS
A	3412	1.0	120	8.5	1	RECESSED CEILING MOUNT NUTONE MODEL # 9202 OR EQUAL

ELECTRIC UNIT HEATER SCHEDULE						
UNIT DESIGNATION	OUTPUT BTU/HR	KW	VOLTS	AMPS	PHASE	REMARKS
1-81	17,100	5	480	6	3	EMERSON LUH-05-13 *
2-81	17,100	5	480	6	3	EMERSON LUH-05-13 *

* UNIT HEATERS TO BE EQUIPPED WITH A BUILT-IN THERMOSTAT WITH A MINIMUM "ON" POINT OF 35° F.

LIGHTING CONTACTOR SCHEDULE						
MARK	SERVES	ON PANEL	AMPS	VOLTS	POLES	CONTROLLED BY
A	LIGHTS	1HB	20	277	3	WALL SWITCH
B	DELETED					
C	LIGHTS	1HB	20	277	3	WALL SWITCH
D	DELETED					
E	LIGHTS	3HE	20	277	2	WALL SWITCH
F	LIGHTS	3HE	20	277	2	WALL SWITCH
G	LIGHTS	4HE	20	277	3	WALL SWITCH
H	LIGHTS	4HE	20	277	2	WALL SWITCH
I	LIGHTS	5HE	20	277	3	WALL SWITCH
J	LIGHTS	5HE	20	277	1	WALL SWITCH
K	LIGHTS	6HE	20	277	3	WALL SWITCH
L	LIGHTS	6HE	20	277	2	WALL SWITCH
M	LIGHTS	7HE	20	277	2	WALL SWITCH

ALL CONTACTORS TO BE ELECTRICALLY OPERATED, MECHANICALLY HELD.
ALL CONTACTORS TO BE FURNISHED WITH NEMA 1 ENCLOSURE.

ELECTRICAL NOTES - GENERAL

1. The Contractor shall refer to the Specifications for Standard Details.
2. RSD - Refer to Standard Detail.
3. Refer to Standard Detail 7000 for electrical symbols.
4. The Electrical Subcontractor's particular attention is called to the requirements of the Specifications pertaining to color coding of conductors. Under no conditions will exceptions to these requirements be acceptable.
5. Circuit numbers indicate the pole numbers in the panel utilized by circuit breakers. Each circuit breaker is indicated by a separate arrowhead. A 2-pole circuit breaker is indicated by two circuit numbers and one arrowhead. A 3 pole circuit breaker is indicated by three circuit numbers and one arrowhead.
6. Junction boxes "J" are for future office power. The Electrical Contractor shall provide the number of circuits and conductors as indicated on the plans. J-boxes shall be furnished with blank covers/plates.
7. Where no conductor size is indicated for branch circuit conductors, the conductors shall be sized in accordance with the rating of the device serving the branch circuit, i.e.:
20 amp breaker # 12 (farthest outlet less than 50')
20 amp breaker # 10 (farthest outlet 50' or more)
30 amp breaker # 10
40 amp breaker # 8
50 amp breaker # 8
8. All fan coil units as furnished and installed by the Mechanical Contractor are to be complete with a suitable electric cord connected to the unit and a NEMA No. L7, 277V, 2 pole, 3 wire, grounding, twist-lock, male plug for connection to a female receptacle. These plugs shall be either 20 or 30 amp rated as required by the amperage rating of the particular fan coil unit. The electrical contractor shall furnish a NEMA No. L-7, 277V, 2 pole, 3 wire, grounding, twist-lock female receptacle of the same amperage rating as the male plug for each fan coil unit. For the concealed, suspended fan coil unit, the receptacle shall be mounted in a suitable outlet box, securely affixed to the structure, at such position as to allow convenient connection and disconnection of the units electric cord. For floor mounted and vertical concealed fan coil unit the Electrical Contractor shall install the outlet box and receptacle inside the fan coil unit cabinet.
9. At each telephone outlet indicated on the power plans, the Electrical Contractor shall install a telephone outlet box and extend a 3/4" conduit from the box to the ceiling space above. Excepted from this requirement are certain outlets on the first and second floor which require special conduit routing. Refer to Sheets E-3 and E-6.
10. Maintenance of Services - Eastern Portion of Building:
Existing distribution panel, load center telephone panel and hi-line telephone panel are located at an existing chase on the East building wall at the N.E. corner of the building on each floor. These panels are for service to lights, outlets, fan coil units and telephones in the Eastern (most recent addition) portion of the building. These devices and related conduits, cables, conductors, etc., (including conductors and conduits in the existing chase) are to be ultimately removed in conjunction with the building renovation.

Construction of the new "East" stair will be part of the initial work of this project and will affect the area in the existing building where the chase and panels are located. All seven floors are to remain occupied while the stair is being constructed. Services from the above described panels shall be maintained on all floors during the stair construction with the exception of the following:

- A. Hi-line telephone service
- B. Electrical service to computer equipment on the third floor which is to be temporarily relocated to the first floor prior to the start of the stair construction.

The Electrical Contractor shall be responsible for maintaining service to all outlets and/or devices fed from said panels during the stair construction. The Electrical Contractor shall coordinate his work with the General Contractor in order to maintain said services during stair construction. The Electrical Contractor shall temporarily move, adjust, relocate, splice, or otherwise modify said devices and related circuits in order to maintain said services during stair construction. No planned interruption of services from these panels shall be made without consent of the Owner's representative. Contractor shall work "after hours", weekends, etc. at no additional cost to Owner to accomplish work requiring interruptions where Owner does not grant consent for such interruptions during working hours.

The Electrical Contractor is advised to carefully appraise this work with the General Contractor in order to accurately determine labor, material and scheduling requirements. Refer to "Telephone Single Line Diagram", Sheet E-22 for additional notes related to telephone work in stair area.

DEMOLITION NOTES - ELECTRICAL

1. The Electrical Contractor shall remove existing electrical equipment and devices as required by the work of this project; and equipment and devices which have been rendered inactive and unneeded by the work of this project. No equipment or devices shall be rendered inoperative or removed prior to discontinued use of or need for said equipment or devices without the express consent of the Architect. Equipment and devices to be removed shall include, but not be limited to the following:
 - A. All Areas
All exposed conduit and wiring
Light fixtures
Switches and outlets
Panels and disconnects
 - B. Penthouse
Refer to Sheet MPE-1
 - C. Fifth Floor
Disconnects, starters, wiring and devices related to existing air handling equipment in mechanical room adjacent to Stair 502.
 - D. Coffee Bar 207 Roof
Disconnects, wiring, conduit and other devices related to air cooled condensing unit, and air cooled condensers to be removed.
 - E. East Basement
Refer to demolition requirements, Sheet E-17.
 - F. West Basement
Refer to demolition requirements, Sheet E-17.
2. Existing conductors not removed from existing conduits shall be permanently disconnected from their source of supply and their ends shall be taped to fully cover any bare conductor. Existing work which occurs in concealed locations and does not interfere with the new work may be disconnected, taped as specified and abandoned. Existing work which occurs in exposed locations or interferes with new work shall be removed.



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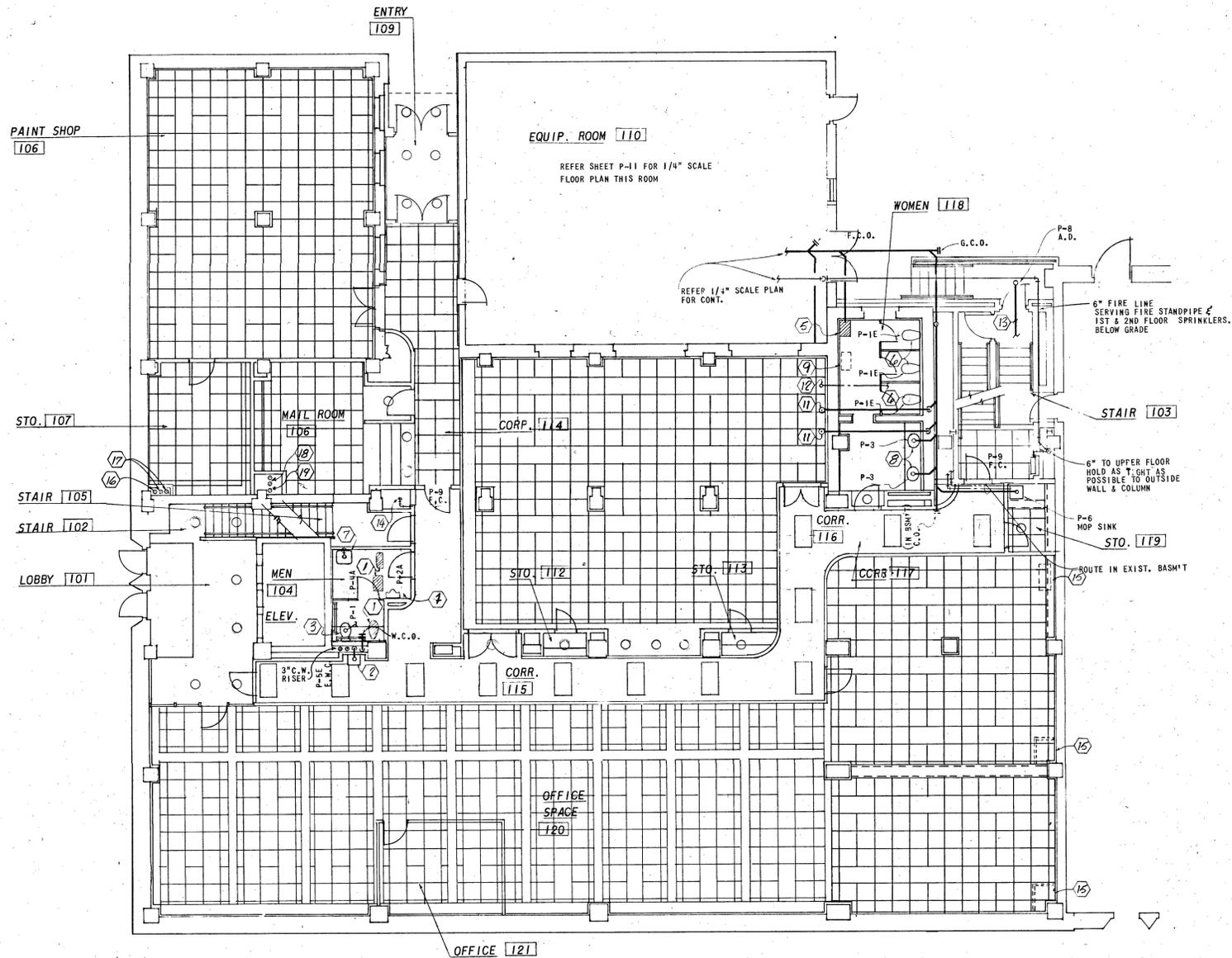


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NOTES INDICATED BY NUMBER IN

1. EXISTING RESTROOM TO BE REMODELED. PLUMBING CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURES AS SHOWN. SOIL PIPE, VENT PIPE, WATER PIPE SHALL BE REMOVED TO BELOW FLOOR AND ABOVE CEILING AND CAPPED. FLOOR, WALLS, ETC. SHALL BE REPAIRED.
2. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING ELECTRIC WATER COOLER. UNIT SHALL BE DISCONNECTED AND RELOCATED TO POSITION SHOWN. CONTRACTOR SHALL CONNECT NEW 1/2" C.W. SUPPLY AND 1-1/4" WASTE AND 1-1/2" VENT TO RISERS AS SHOWN ON PIPING SCHEMATIC.
3. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW HANDICAPPED WATER CLOSET (P-1A). PLUMBING CONTRACTOR SHALL CONNECT NEW 1-1/4" COLD WATER SUPPLY, 4" WASTE AND 2" VENT TO SERVICE RISERS.
4. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW WALL MOUNTED URINAL (P-2A). CONTRACTOR SHALL CONNECT NEW 3/4" COLD WATER, 2" WASTE AND 1-1/2" VENT TO SERVICE RISERS.
5. EXISTING PLUMBING CHASE SHALL BE REMOVED. CONTRACTOR SHALL VERIFY EXACT SIZE OF SEWER, VENT AND WATER RISERS AND SHALL RELOCATE SAME TO NEW CHASE.
6. EXISTING WATER CLOSETS TO REMAIN. PLUMBING CONTRACTOR SHALL REMOVE EXISTING WATER CLOSETS AS REQUIRED FOR GENERAL CONTRACTOR TO ACCOMPLISH HIS SPECIFIED WORK. UPON COMPLETION OF THIS WORK, PLUMBING CONTRACTOR SHALL RESET WATER CLOSET AND RECONNECT SERVICES.
7. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW HANDICAPPED LAVATORY (P-4A). CONTRACTOR SHALL CONNECT NEW 1/2" COLD WATER SUPPLY, 1-1/4" WASTE AND 1-1/4" VENT TO SERVICE RISERS. REFER SCHEMATICS.
8. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL TWO NEW COUNTERTOP LAVATORIES (P-3). FIXTURES SHALL BE TO NEW WATER SERVICE SERVING AREA. WASTE AND VENT SHALL BE CONNECTED TO NEW SEWER AND VENT IN NEW CHASE. SERVICE PIPE SIZES FOR EACH FIXTURE SHALL BE: SEWER-1-1/4", VENT-1-1/4" AND WATER-1/2".
9. PLUMBING CONTRACTOR SHALL REMOVE EXISTING LAVATORY, SEWER, WATER AND VENT PIPING. ABANDONED SERVICE LINES SHALL BE CAPPED ABOVE CEILING AND/OR BELOW FLOOR.
10. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW MOP SINK (P-6). HE SHALL EXTEND NEW 3" WASTE LINE AT BASEMENT CEILING AS SHOWN TO NEW CHASE. HE SHALL EXTEND 3/4" COLD WATER FROM NEW CHASE BELOW 1ST FLOOR AT BASEMENT CEILING AND RISE UP THRU FLOOR TO SERVE FIXTURE. HE SHALL EXTEND 1-1/2" VENT ABOVE CEILING AND CONNECT TO 4" VENT IN NEW CHASE.
11. EXISTING SOIL LINES DOWN FROM EXISTING COFFEE BAR. VERIFY EXACT LOCATION AND SIZE AND REROUTE TO NEW CHASE AND CONNECT TO NEW WASTE LINE IN THE CHASE.
12. EXISTING COLD WATER TO 2ND FLOOR COFFEE BAR. CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION AND SHALL EXTEND SAME SIZE FROM COFFEE BAR AND CONNECT TO WATER SERVICE IN NEW CHASE.
13. PLUMBING CONTRACTOR SHALL REMOVE AREA DRAIN SERVING EXISTING ENTRY AND SHALL REINSTALL NEW AREA DRAIN (P-13). HE SHALL EXTEND 3" DRAIN LINE TO EXISTING DRAIN LINE TERMINATION AT SUMP PUMP. VERIFY AT JOB SITE.
14. 2-1/2" FIRE LINE UP FROM BASEMENT.
15. EXISTING CHASE TO BE REMOVED. EXISTING SERVICE LINES TO BE REMOVED, IF EXISTING LINES MUST REMAIN SAME SHALL BE RELOCATED AS DIRECTED BY OWNER'S REPRESENTATIVE AT THE JOB SITE.
16. 2-1/2" RISER UP TO 1ST AND 2ND FLOOR SPRINKLERS. REFER FIRE SPRINKLER PLANS FOR CONTINUATION.
17. 4" WASTE LINE AND 3" VENT. REFER TO PIPING SCHEMATICS, BASEMENT FLOOR PLAN AND 2ND FLOOR PLAN FOR CONTINUATION.
18. 2" RISER UP TO 1ST AND 2ND FLOOR SPRINKLER. REFER SHEET P-13 AND P-14.
19. 6" RISER FROM BASEMENT UP TO HOSE CABINETS.



FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



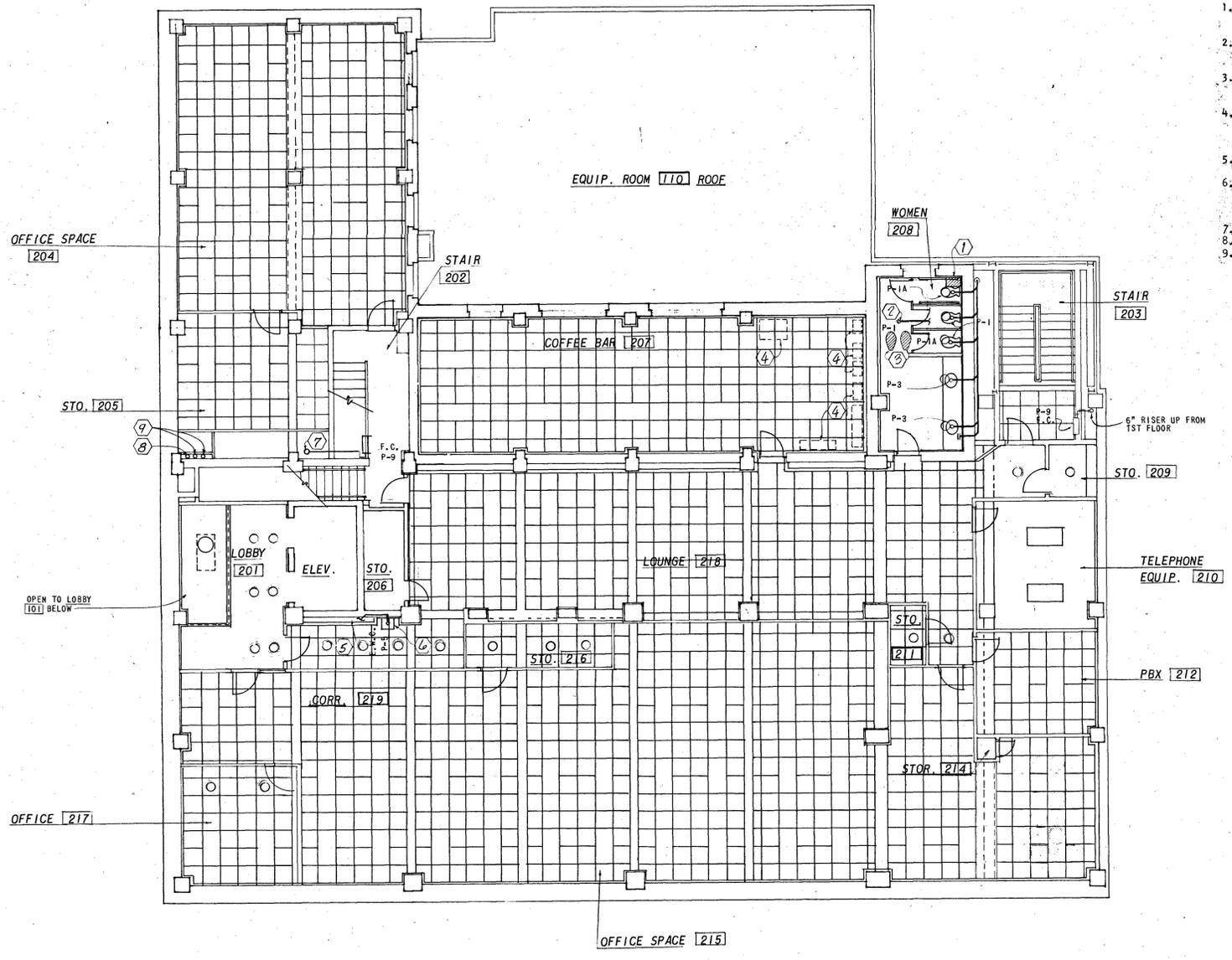
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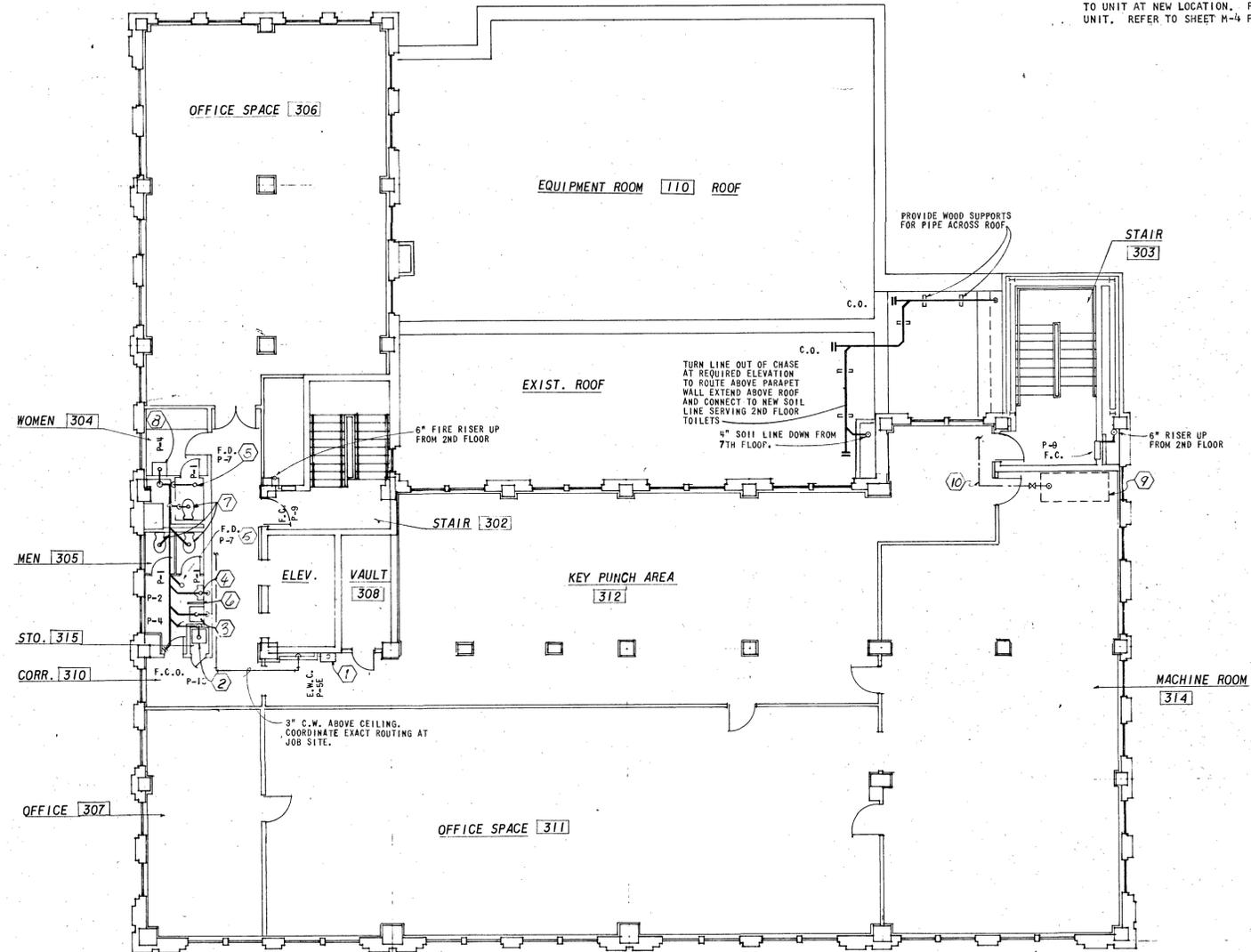
- NOTES INDICATED BY 
- EXISTING LAVATORY TO BE REMOVED. PLUMBING CONTRACTOR SHALL DISCONNECT AND REMOVE ALL SERVICE PIPE (WATER, SEWER AND VENT) TO BELOW FLOOR AND TO ABOVE CEILING AND CAP AND/OR PLUG.
 - EXISTING FLOOR DRAIN. CONTRACTOR SHALL EXTEND NEW DRAIN LINE FROM EXISTING FLOOR DRAIN AND CONNECT TO WASTE LINE AT NEW CHASE.
 - EXISTING WATER CLOSETS TO BE REMOVED. PLUMBING CONTRACTOR SHALL DISCONNECT AND REMOVE ALL SERVICE PIPE (WATER, SEWER AND VENT) TO BELOW FLOOR AND TO ABOVE CEILING AND CAP OR PLUG. EXISTING COFFEE BAR EQUIPMENT. REFER TO FIRST FLOOR PLUMBING PLAN. CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION AND SHALL EXTEND WATER AND DRAIN PIPING (OF SAME SIZE) TO BE ROUTED ABOVE CEILING TO VENT RISER IN NEW CHASE.
 - REFER TO PIPING SCHEMATIC FOR ROUTING OF NEW WATER, SEWER AND VENT IN CHASE.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRIC WATER COOLER (P-5). VERIFY EXACT LOCATION OF NEW VERTICAL RISERS AND CONNECT NEW FIXTURE TO SAME. SERVICE LINE SIZES SHALL BE AS FOLLOWS: WASTE-1-1/4", VENT 1-1/4", COLD WATER 1/2".
 - 1-1/2" RISER UP TO SECOND FLOOR SPRINKLERS. REFER SHEET P-14.
 - 4" WASTE AND 3" VENT. REFER PIPING SCHEMATICS FOR CONTINUATION.



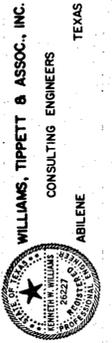
SECOND FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"

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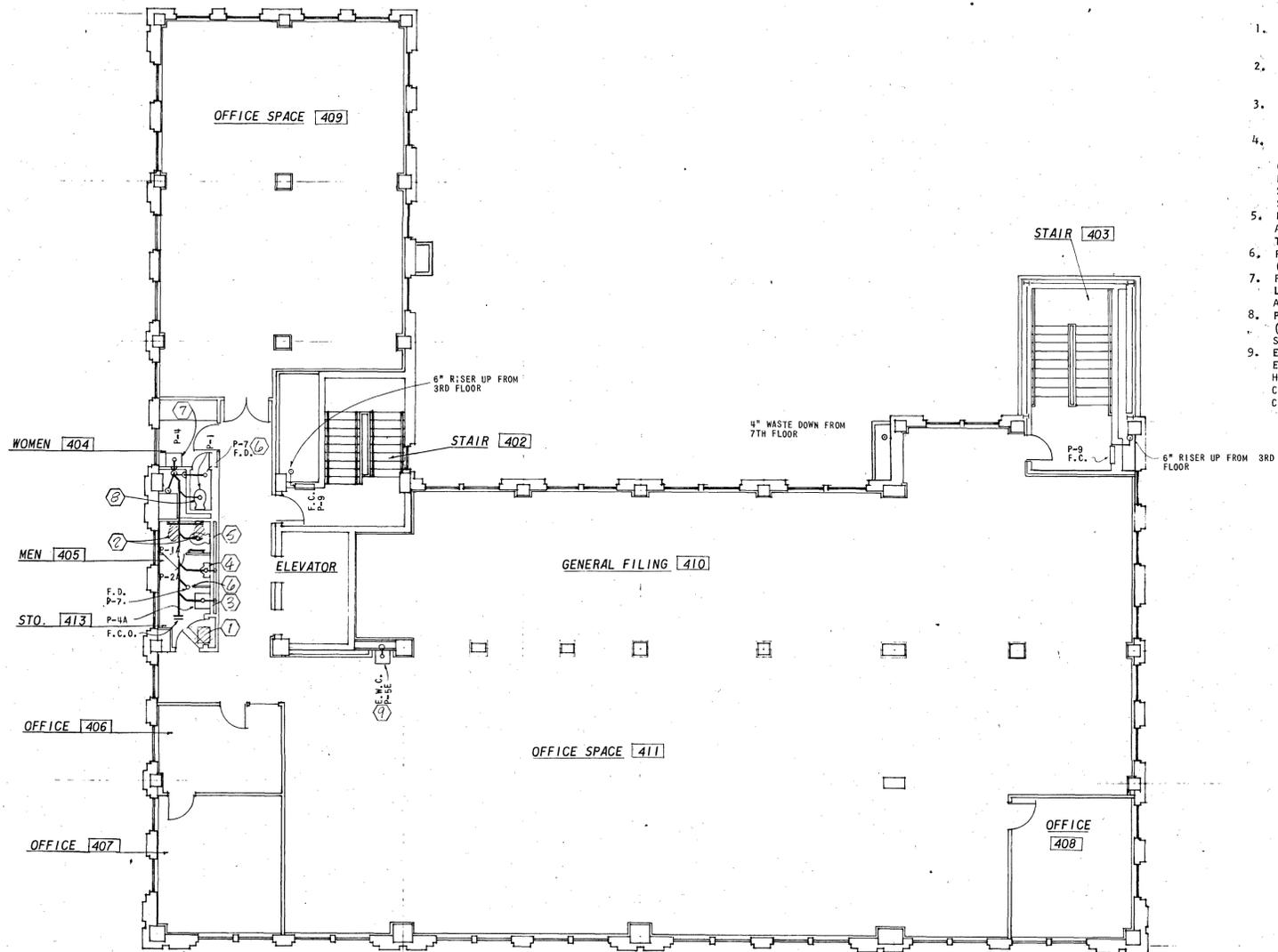
1. EXISTING ELECTRIC WATER COOLER. CONTRACTOR SHALL REMOVE EXISTING E.W.C. IN ORDER FOR GENERAL CONTRACTOR TO ACCOMPLISH HIS SPECIFIED WORK. AFTER THIS WORK IS COMPLETED, PLUMBING CONTRACTOR SHALL REINSTALL FIXTURE AND MAKE ALL SERVICE CONNECTIONS TO NEW RISERS.
2. HOP SINK. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND CLEAN. AFTER CLEANING, HE SHALL REINSTALL UNIT WITH NEW TRIM COMPATABLE WITH FIXTURE AND SIMILAR TO TRIM SPECIFIED FOR NEW FIXTURE P-6. PLUMBING CONTRACTOR SHALL CONNECT NEW 3" WASTE LINE, 1-1/2" VENT, 1/2" WATER TO NEW SERVICES AS SHOWN.
3. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FLOOR MOUNTED URINAL AND INSTALL NEW WALL MOUNTED LAVATORY (P-4). PLUMBING CONTRACTOR SHALL CONNECT NEW 1-1/4" WASTE, 1-1/4" VENT AND 1/2" C.W. TO NEW SERVICE LINES AS SHOWN.
4. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND INSTALL NEW WALL MOUNTED URINAL (P-2). PLUMBING CONTRACTOR SHALL CONNECT NEW 2" WASTE, 1-1/2" VENT AND 1" C.W. TO NEW SERVICE LINES.
5. PLUMBING CONTRACTOR SHALL INSTALL NEW 2" FLOOR DRAIN AND CONNECT TO SEWER.
6. EXISTING PLUMBING CHASE SHALL BE REMOVED. PLUMBING CONTRACTOR SHALL RELOCATE WATER, SEWER AND VENT RISER AS REQUIRED INTO NEW WALL.
7. EXISTING WATER CLOSET SHALL BE REMOVED AND REPLACED WITH NEW WATER CLOSET (P-1). PLUMBING CONTRACTOR SHALL CONNECT 4" WASTE, 2" VENT AND 1-1/2" C.W. TO NEW SERVICE LINES AS SHOWN.
8. PLUMBING CONTRACTOR SHALL INSTALL NEW LAVATORY P-4 AND CONNECT 1-1/4" DRAIN, 1-1/4" VENT AND 1/2" C.W. TO NEW RISERS.
9. EXISTING COMPUTER ROOM AIR CONDITIONING UNIT. UNIT TO BE RELOCATED FROM EXISTING LOCATION TO LOCATION SHOWN BY MECHANICAL CONTRACTOR.
10. PLUMBING CONTRACTOR TO VERIFY SIZE AND LOCATION OF EXISTING ELECTRIC HUMIDIFIER WATER SUPPLY LINE TO AIR CONDITIONING UNIT AND REROUTE AND EXTEND SAME FULL SIZE TO UNIT AT NEW LOCATION. PROVIDE CUTOFF VALVE IN ACCESSABLE LOCATION ADJACENT TO UNIT. REFER TO SHEET M-4 FOR RELATED MECHANICAL WORK.



THIRD FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"



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- NOTES INDICATED BY ○ :
- EXISTING MOP SINK. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE. SERVICE LINES SHALL BE REMOVED TO BELOW FLOOR AND/OR ABOVE CEILING AND CAPPED OR PLUGGED.
 - EXISTING WATER CLOSETS. PLUMBING CONTRACTOR SHALL REMOVE EXISTING WATER CLOSETS. SERVICE LINES SHALL BE REMOVED TO BELOW FLOOR AND/OR ABOVE CEILING AND CAPPED OR PLUGGED.
 - EXISTING LAVATORY SHALL BE REMOVED AND NEW HANDICAPPED (P-4A) SHALL BE INSTALLED. CONTRACTOR SHALL CONNECT 1-1/4" WASTE, 1-1/4" VENT AND 1/2" C.W. TO SERVICE MAINS AS SHOWN.
 - EXISTING FLOOR MOUNTED URINAL SHALL BE REMOVED. ABANDONED SERVICE LINES SHALL BE REMOVED TO BELOW FLOOR OR ABOVE CEILING AND VALVED AND CAPPED. CONTRACTOR SHALL INSTALL NEW HANDICAPPED URINAL P-2A AND SET RIM AT 20 INCHES. CONNECT 2 INCH WASTE, 1-1/4" VENT AND 1" C.W. TO SERVICE RISERS AS SHOWN.
 - PLUMBING CONTRACTOR SHALL MOUNT NEW HANDICAPPED WATER CLOSET AS SHOWN. CONNECT 4 INCH WASTE, 2 INCH VENT AND 1-1/4" C.W. TO SERVICE RISERS AS SHOWN.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL 2" FLOOR DRAIN (P-7) AS SHOWN AND SHALL CONNECT TO MAIN SOIL LINE AS SHOWN.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW WALL HUNG LAVATORY (P-4). HE SHALL CONNECT 1-1/4" WASTE, 1-1/4" VENT AND 1/2" C.W. TO SERVICE RISERS IN CHASE.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW WATER CLOSET (P-1). HE SHALL CONNECT 4" WASTE, 2" VENT AND 1-1/4" C.W. TO SERVICE RISERS IN CHASE.
 - EXISTING ELECTRIC WATER COOLER. CONTRACTOR SHALL REMOVE EXISTING E.W.C. IN ORDER FOR GENERAL CONTRACTOR TO ACCOMPLISH HIS SPECIFIED WORK. AFTER THIS WORK IS ACCOMPLISHED, PLUMBING CONTRACTOR SHALL REINSTALL FIXTURE AND MAKE ALL SERVICE CONNECTIONS.

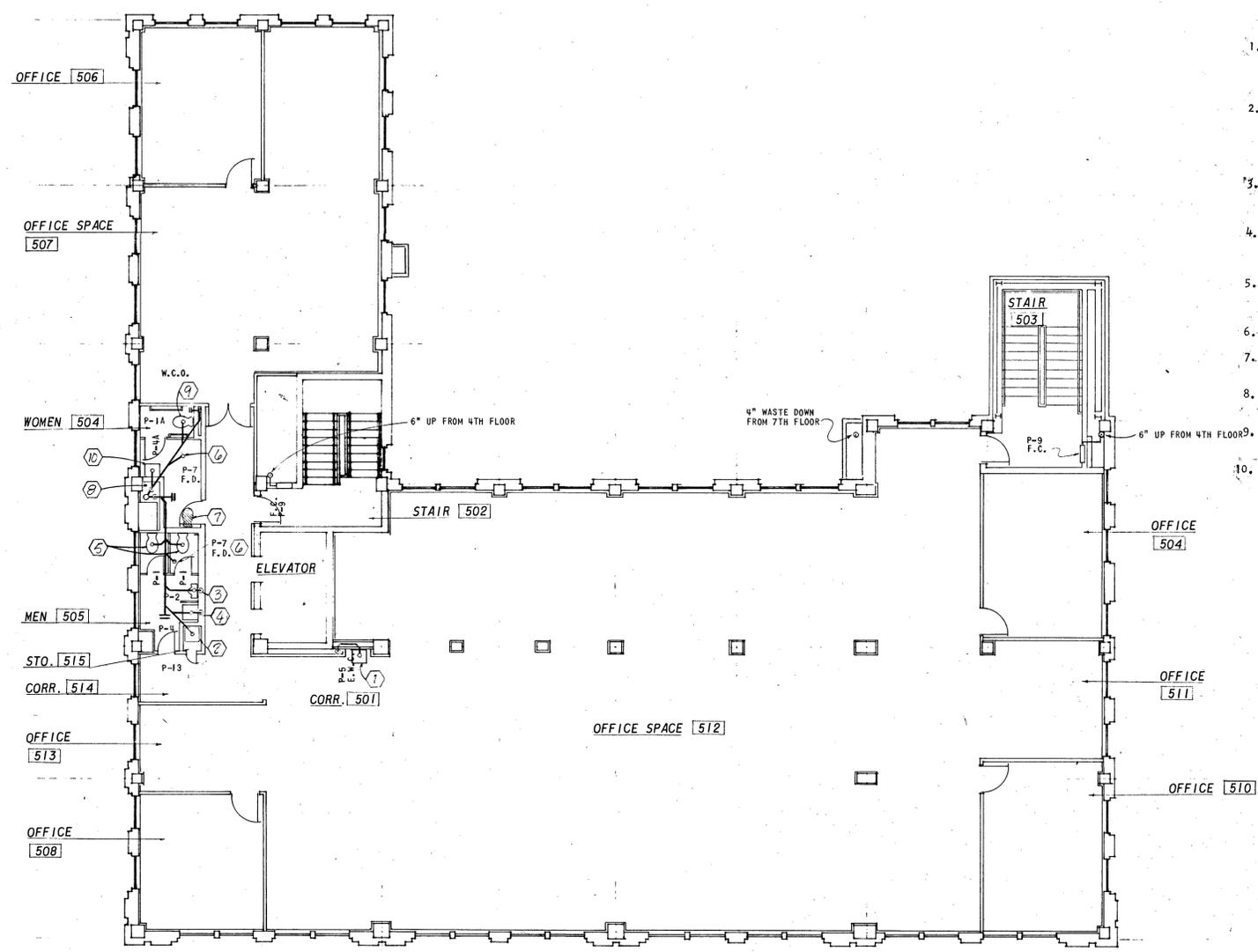


FOURTH FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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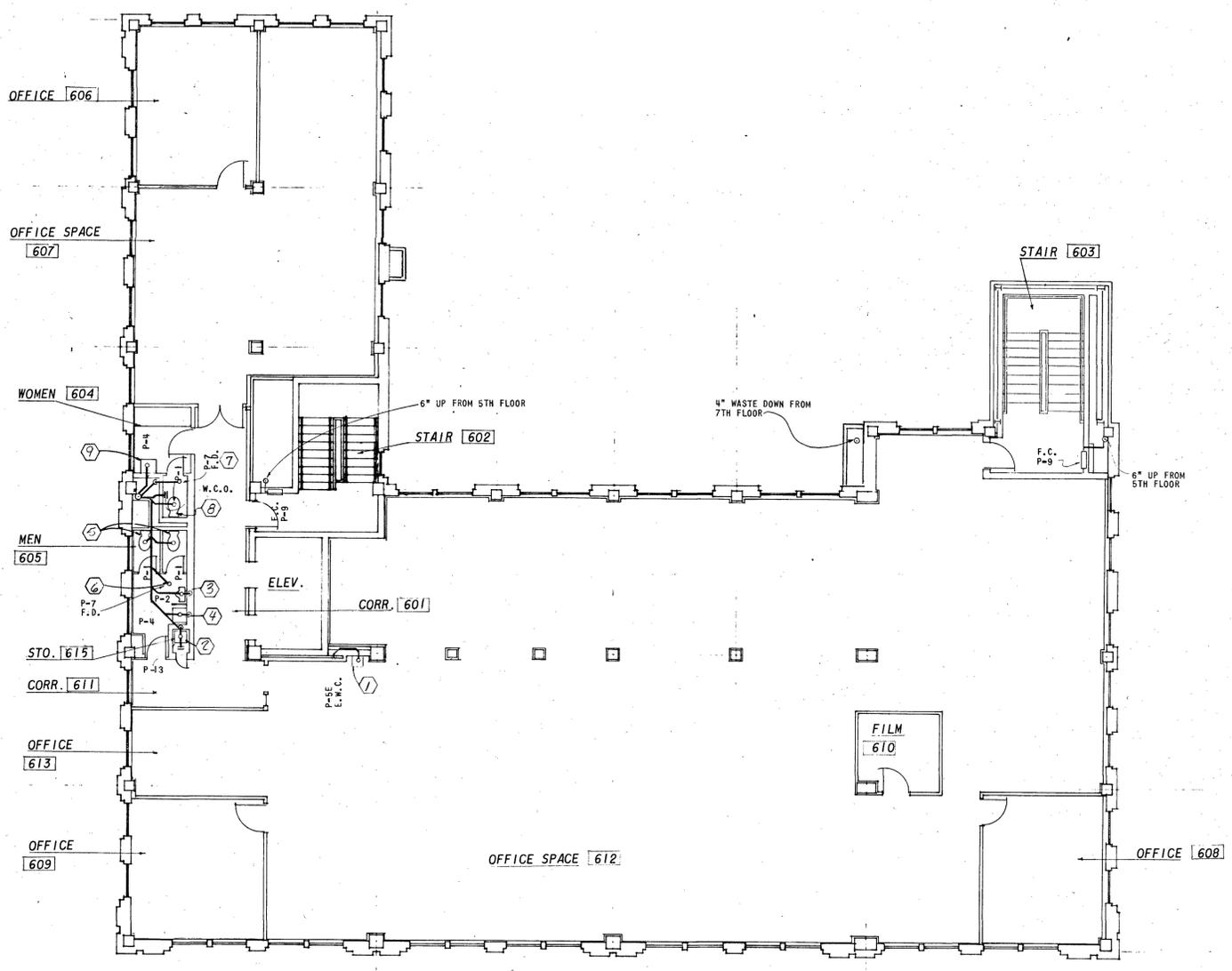
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- NOTES INDICATED BY NUMBER IN
- EXISTING ELECTRIC WATER COOLER. PLUMBING CONTRACTOR SHALL REMOVE EXISTING E.W.C. IN ORDER FOR GENERAL CONTRACTOR TO ACCOMPLISH HIS SPECIFIED WORK. AFTER THIS WORK IS COMPLETED, PLUMBING CONTRACTOR SHALL REINSTALL FIXTURE AND MAKE ALL SERVICE CONNECTIONS TO NEW RISERS.
 - EXISTING HOP SINK. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND THOROUGHLY CLEAN. AFTER CLEANING, HE SHALL REINSTALL FIXTURE WITH NEW TRIM. TRIM SHALL BE SIMILAR TO TRIM FURNISHED FOR FIXTURE P-6. PLUMBING CONTRACTOR SHALL CONNECT NEW 3" WASTE, 1-1/2" VENT AND 1/2" C.W. TO SERVICE RISERS AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL INSTALL NEW WALL MOUNTED URINAL AS SHOWN. PLUMBING CONTRACTOR SHALL CONNECT 2" WASTE, 1-1/4" VENT AND 1" C.W. TO SERVICES AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL INSTALL NEW WALL MOUNTED LAVATORY AS SHOWN. PLUMBING CONTRACTOR SHALL CONNECT 1-1/4" WASTE, 1-1/4" VENT AND 1/2" C.W. TO SERVICES AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING WATER CLOSETS AND SHALL REPLACE SAME WITH NEW FIXTURE (P-1). PLUMBING CONTRACTOR SHALL CONNECT 4" WASTE, 2" VENT AND 1-1/4" C.W. TO SERVICE RISERS AS SHOWN.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW 2" FLOOR DRAIN P-7 AND EXTEND DRAIN LINE AND CONNECT TO WASTE LINE AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING WATER CLOSET. SEWER VENT AND COLD WATER SHALL BE REMOVED TO ABOVE CEILING OR BELOW FLOOR AND CAPPED.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING LAVATORY. SEWER, VENT AND COLD WATER SHALL BE REMOVED TO ABOVE CEILING OR BELOW FLOOR AND CAPPED.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW HAND-CAPPED WATER CLOSET P-1A. HE SHALL CONNECT TO NEW SERVICES AS SHOWN. WASTE 4", VENT 2" AND C.W. 1-1/4".
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW HAND-CAPPED LAVATORY (P-4A). HE SHALL CONNECT TO NEW SERVICES WASTE 1-1/4", VENT 1-1/4", COLD WATER 1/2".


FIFTH FLOOR PLUMBING PLAN

 SCALE: 1/8" = 1'-0"



SIXTH FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"

- NOTES AS INDICATED BY NUMBER IN
- EXISTING ELECTRIC WATER COOLER. CONTRACTOR SHALL REMOVE EXISTING E.W.C. IN ORDER FOR GENERAL CONTRACTOR TO ACCOMPLISH HIS SPECIFIED WORK. AFTER THIS WORK IS COMPLETED, PLUMBING CONTRACTOR SHALL REINSTALL FIXTURE AND MAKE ALL SERVICE CONNECTIONS.
 - EXISTING HOP SINK. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL THOROUGHLY CLEAN. AFTER CLEANING HE SHALL REINSTALL FIXTURE WITH TRIM. TRIM SHALL BE SIMILAR TO TRIM FURNISHED FOR FIXTURE P-6. PLUMBING CONTRACTOR SHALL CONNECT NEW 3" WASTE, 1-1/2" VENT AND 1/2" COLD WATER TO SERVICE RISERS AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL INSTALL NEW WALL MOUNTED URINAL AS SHOWN. PLUMBING CONTRACTOR SHALL CONNECT 2" WASTE, 1-1/4" VENT AND 1" C.W. TO SERVICES AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL INSTALL NEW WALL MOUNTED LAVATORY AS SHOWN. PLUMBING CONTRACTOR SHALL CONNECT 1-1/4" WASTE, 1-1/4" VENT AND 1/2" C.W. TO SERVICES AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING WATER CLOSETS AND SHALL REPLACE SAME WITH NEW FIXTURE (P-1). PLUMBING CONTRACTOR SHALL CONNECT 4" WASTE, 2" VENT AND 1-1/4" C.W. TO SERVICE RISERS AS SHOWN.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW 2" FLOOR DRAIN P-7 AND EXTEND DRAIN LINE AND CONNECT TO WASTE LINE AS SHOWN.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW 2" FLOOR DRAIN AND CONNECT TO SEWER LINE IN CHASE.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW WATER CLOSET P-1 AND SHALL CONNECT SERVICE LINES TO SERVICE LINES IN CHASE. WASTE 4", VENT 2" AND COLD WATER 1-1/4".
 - PLUMBING CONTRACTOR SHALL INSTALL NEW WALL MOUNTED LAVATORY AND SHALL CONNECT TO SERVICE LINES IN CHASE. WASTE 1-1/4" VENT 1-1/4", COLD WATER 1/2".



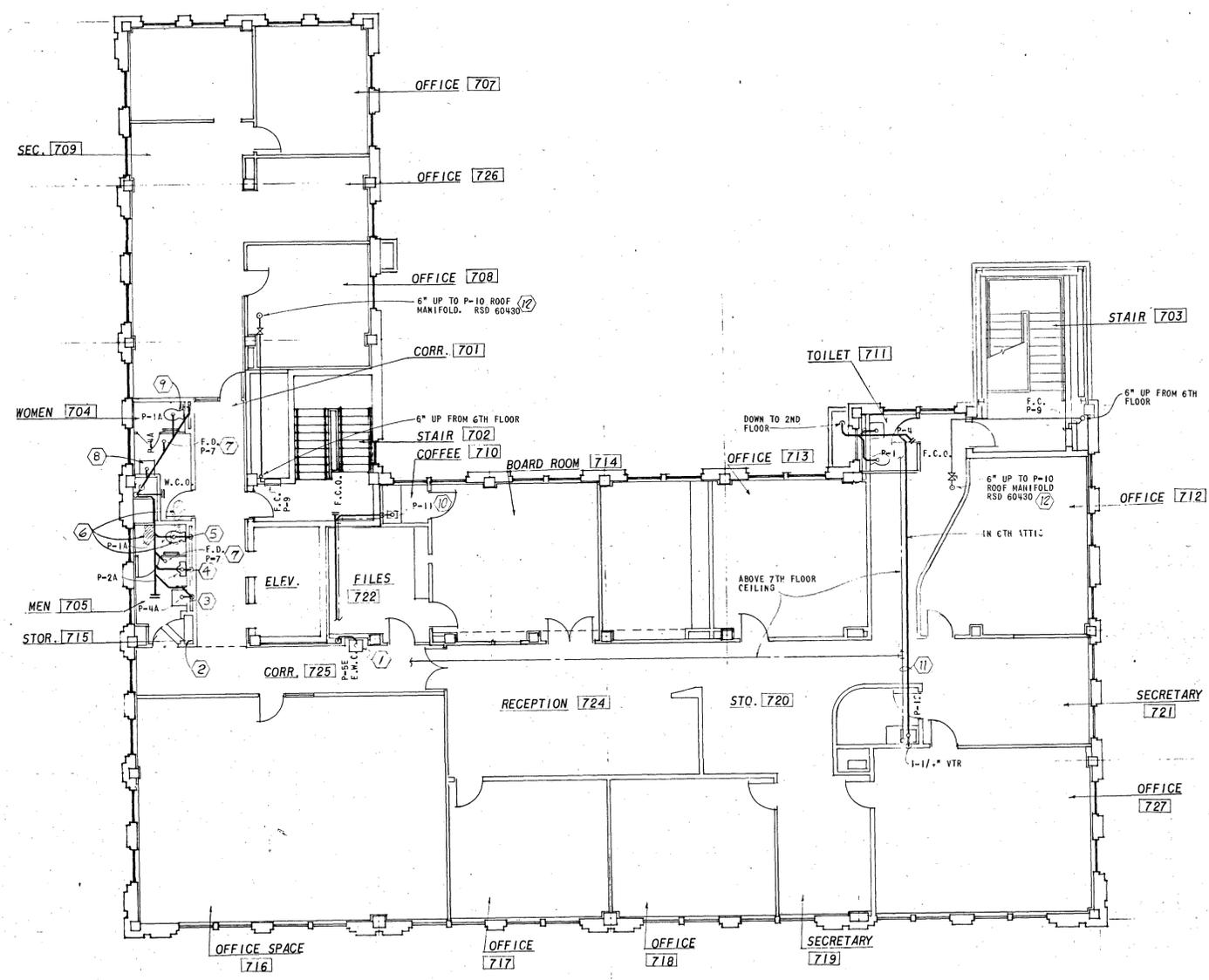
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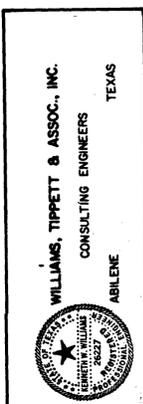
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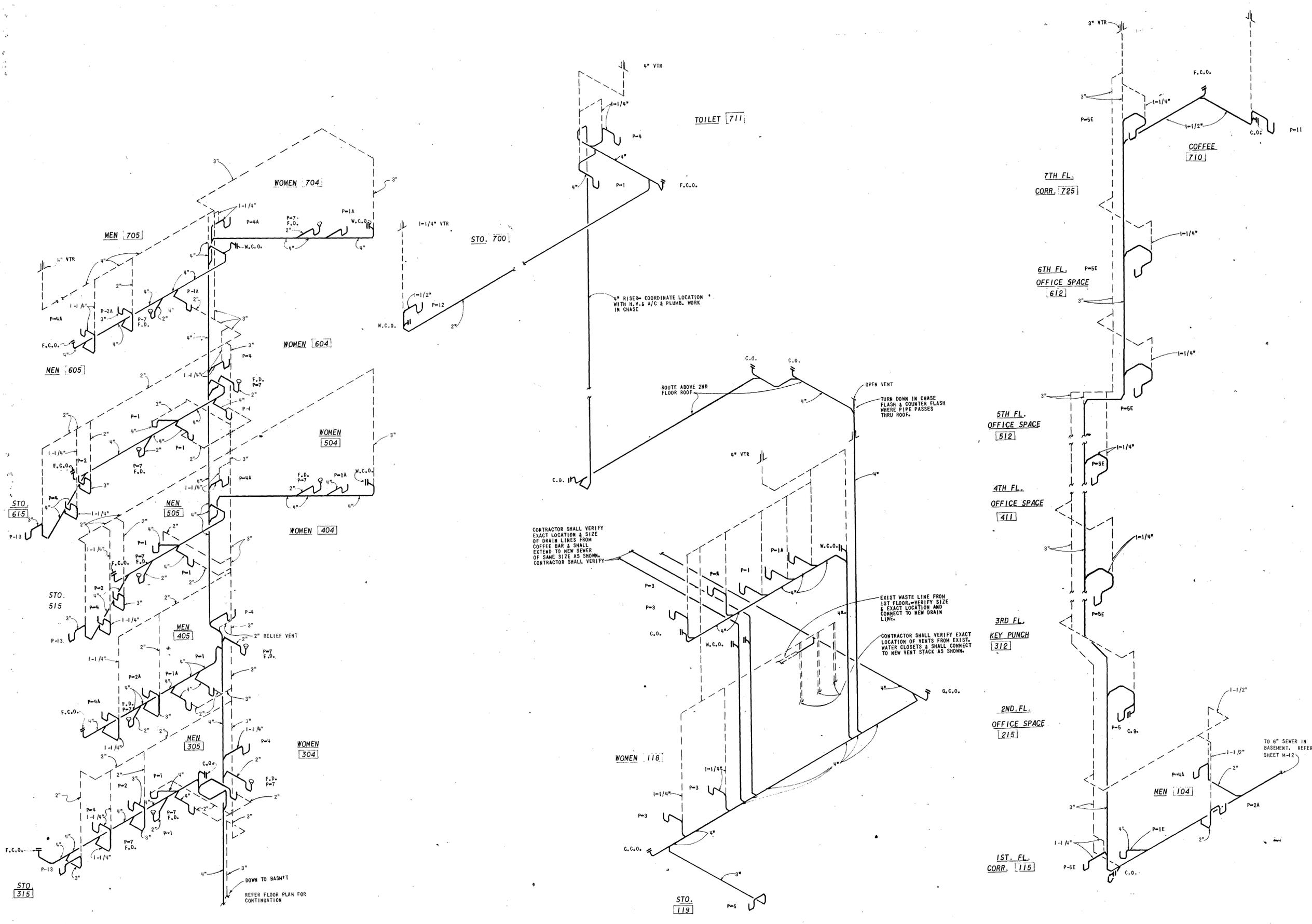


- NOTES INDICATED BY NUMBER IN
- EXISTING ELECTRIC WATER COOLER. CONTRACTOR SHALL REMOVE EXISTING E.W.C. IN ORDER FOR GENERAL CONTRACTOR TO ACCOMPLISH HIS SPECIFIED WORK. AFTER THIS WORK IS COMPLETED, PLUMBING CONTRACTOR SHALL REINSTALL FIXTURES AND MAKE ALL SERVICE CONNECTIONS.
 - EXISTING HOP SINK. PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SERVICE LINES TO ABOVE OR BELOW CEILING AND SHALL CAP OR PLUG.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL INSTALL NEW HANDICAPPED LAVATORY (P-4), AS SHOWN. PLUMBING CONTRACTOR SHALL CONNECT 1-1/4" WASTE, 1-1/4" VENT AND 1/2" C.W. TO SERVICE LINES AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND SHALL INSTALL NEW HANDICAPPED URINAL (P-2A) AS SHOWN. URINAL SHALL BE MOUNTED SUCH THAT LIP IS 20 INCHES ABOVE FINISHED FLOOR. PLUMBING CONTRACTOR SHALL CONNECT 2 INCH WASTE, 1-1/2 INCH VENT AND 1 INCH COLD WATER TO SERVICE LINES AS SHOWN.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL NEW HANDICAPPED (P-1A) WATER CLOSET. CONTRACTOR SHALL CONNECT 4 INCH WASTE, 2" VENT AND 1-1/4" C.W. TO SERVICE AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING WATER CLOSETS. SERVICE LINES SHALL BE REMOVED TO ABOVE AND/OR BELOW CEILING AND CAPPED AND PLUGGED.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW 2 INCH FLOOR DRAIN (P-7) AND CONNECT TO WASTE LINE AS SHOWN.
 - PLUMBING CONTRACTOR SHALL REMOVE EXISTING LAVATORY AND INSTALL NEW HANDICAPPED LAVATORY (P-4) AS SHOWN. PLUMBING CONTRACTOR SHALL CONNECT 1-1/2 INCH WASTE, 1-1/4 INCH VENT AND 1/2 INCH COLD WATER TO SERVICE LINES IN CHASE.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW HANDICAPPED WATER CLOSET (P-1A) AS SHOWN. CONTRACTOR SHALL CONNECT 4 INCH WASTE, 2 INCH VENT AND 1-1/4 INCH COLD WATER TO SERVICE LINES IN CHASE.
 - PLUMBING CONTRACTOR SHALL INSTALL NEW SINK (P-11) AS SHOWN. HE SHALL EXTEND SEWER LINE (1-1/4") THRU FLOOR AND OFFSET IN 6TH FLOOR ATTIC SPACE AND CONNECT TO SEWER LINE AS SHOWN IN CHASE. HE SHALL EXTEND 1/2" COLD WATER FROM CHASE ABOVE CEILING AND CONNECT TO BAR SINK.
 - PLUMBING CONTRACTOR SHALL ROUTE 1-1/2" SINK WASTE, AND 1/2" COLD WATER ABOVE 6TH FLOOR CEILING TO SINK IN STORAGE 720.
 - REFER TO SHEET MPE-1 FOR CONTINUATION.

SEVENTH FLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"



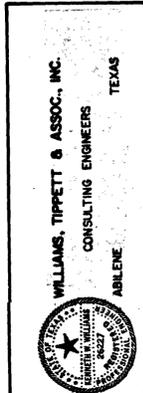
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SEWER PIPING SCHEMATIC
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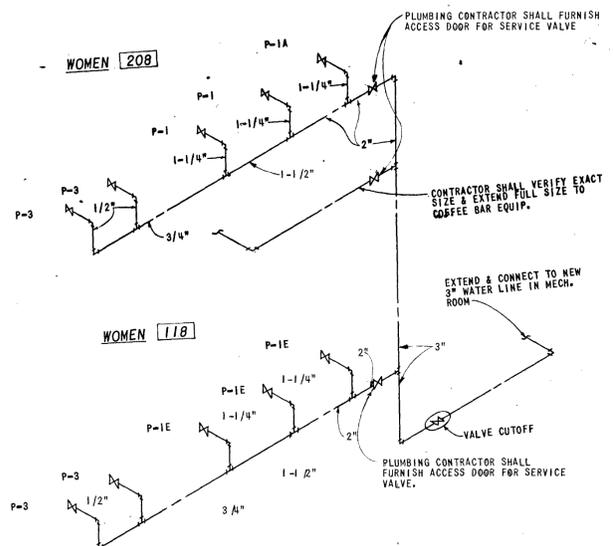
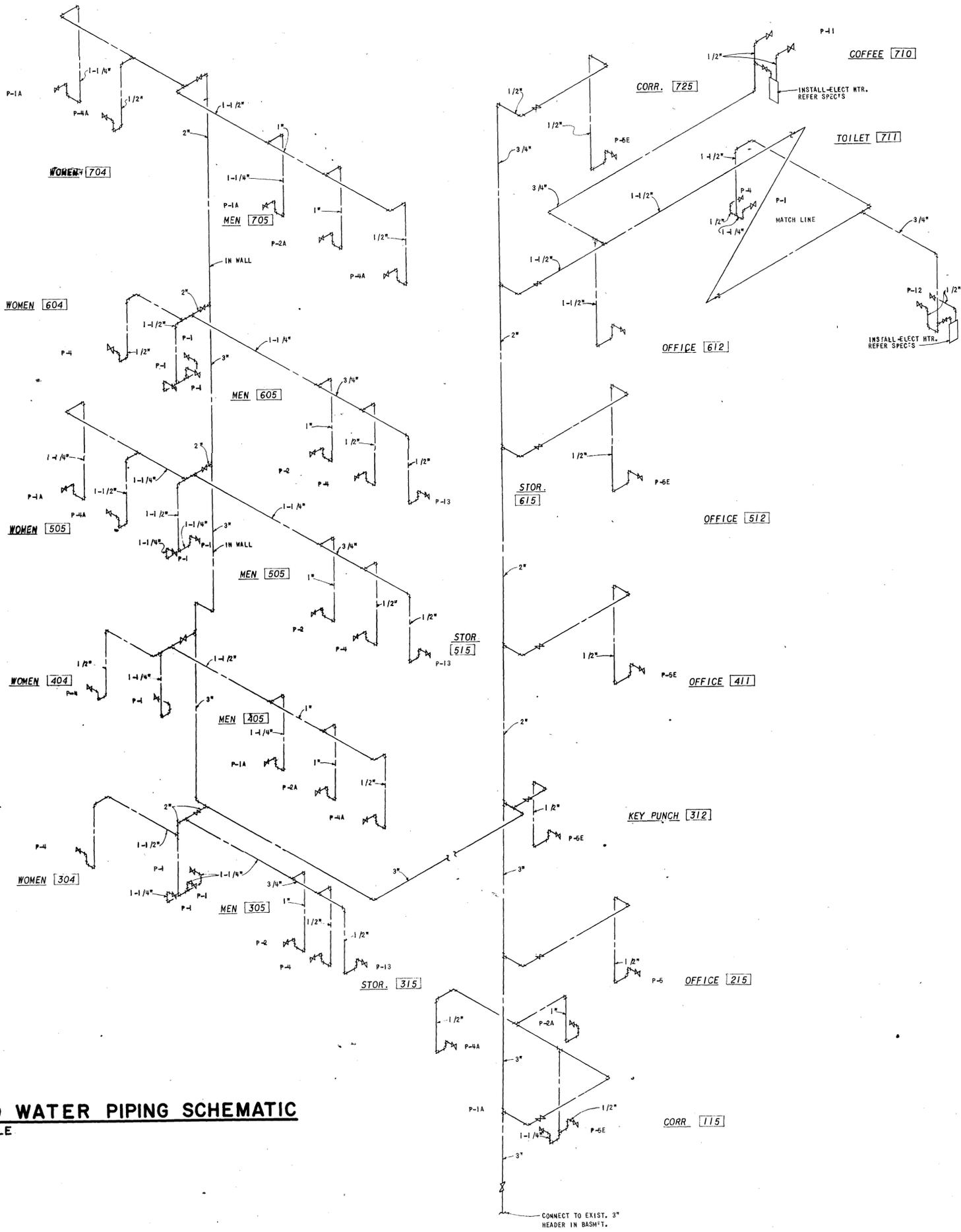


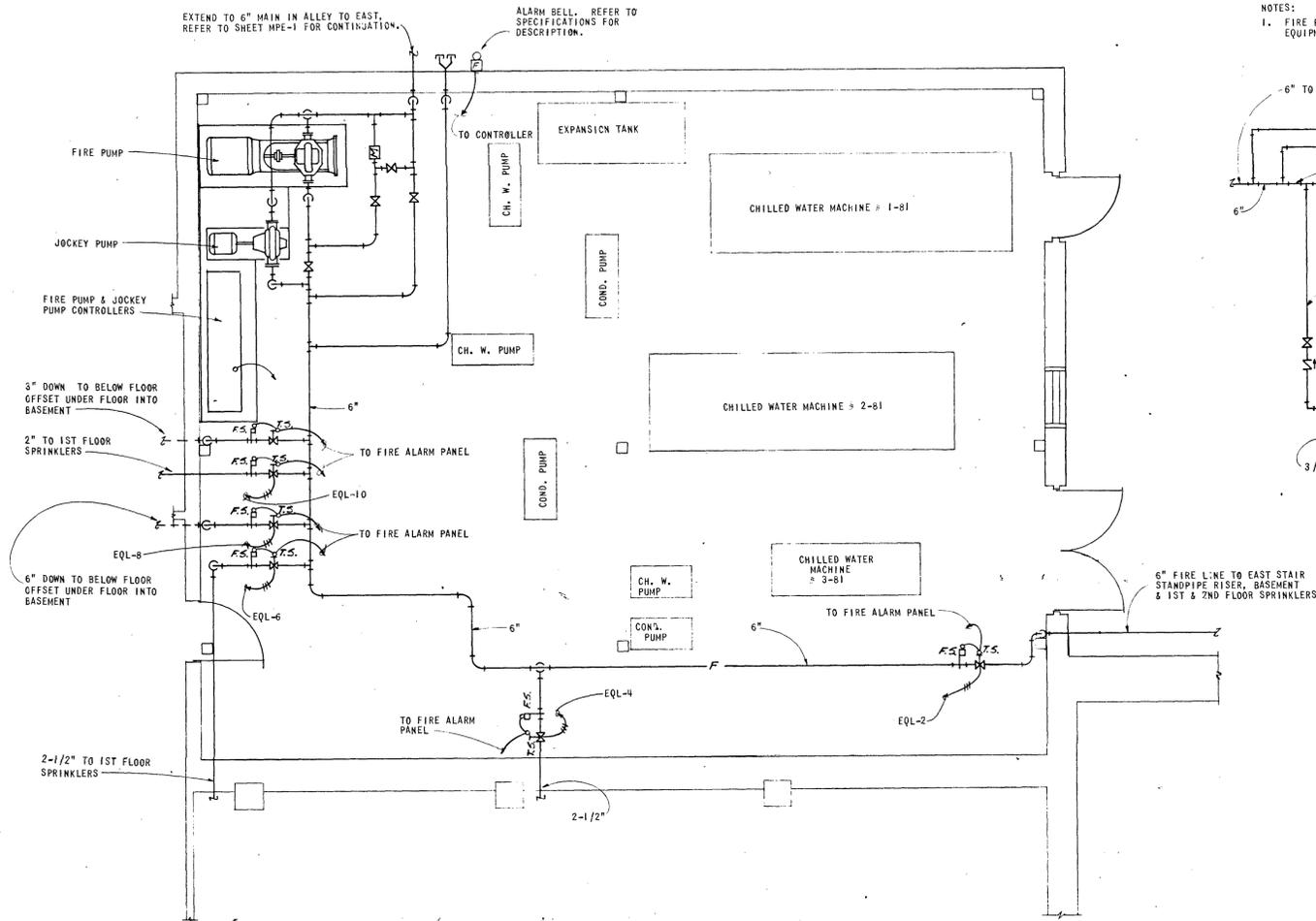
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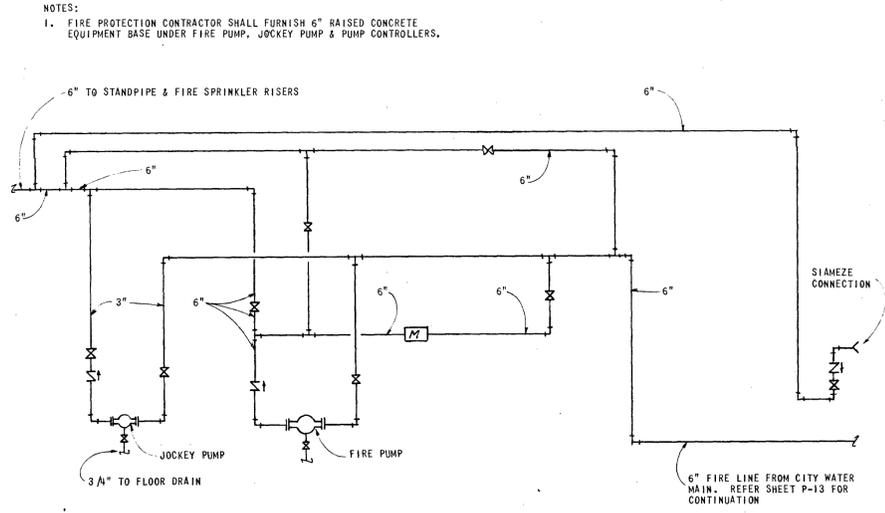
COLD WATER PIPING SCHEMATIC
NO SCALE

COLD WATER PIPING SCHEMATIC
NO SCALE



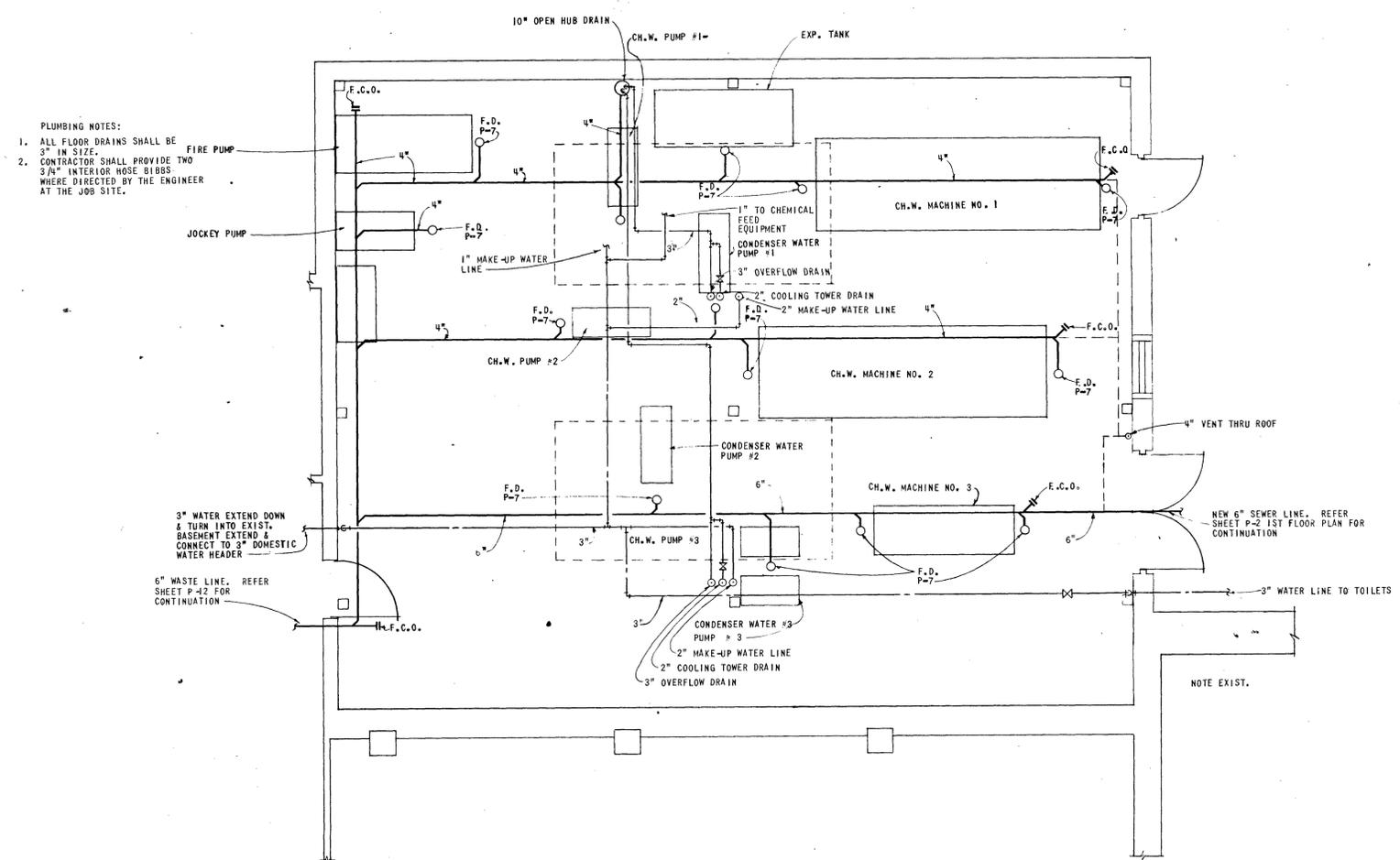


EQUIPMENT ROOM FIRE PROTECTION
SCALE: 1/4" = 1'-0"



FIRE PUMP PIPING SCHEMATIC
NO SCALE

- FIRE PUMP INSTALLATION NOTES:**
1. FIRE PUMP, JOCKEY PUMP, PUMP CONTROLLERS, FLOW METER SIAMEZE CONNECTION, VALVES, FITTINGS, SHALL BE FURNISHED BY THE FIRE FIGHTING SYSTEM CONTRACTOR.
 2. THIS CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED FOR THIS INSTALLATION TO BE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION CODES, CITY OF ABILENE BUILDING CODES, STATE OF TEXAS FIRE CODES AND CITY OF ABILENE FIRE DEPARTMENT WHETHER SHOWN ON THE DRAWING AND SPECIFIED OR NOT.
 3. THIS CONTRACTOR SHALL INSTALL FLOW METER IN STRICT ACCORDANCE WITH METER MANUFACTURER'S DIRECTION.
 4. THIS CONTRACTOR SHALL FURNISH VIBRATION ISOLATOR UNDER BOTH JOCKEY PUMP AND FIRE PUMP.
 5. ALL VALVES FURNISHED UNDER THIS SECTION OF SPECIFICATIONS SHALL BE O.S. & Y. GATE VALVES.
 6. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE FIRE ALARM SYSTEM CONTRACTOR.
 7. THIS CONTRACTOR SHALL PROVIDE NECESSARY ALARM SIGNAL DEVICE TO INITIATE AN ALARM ANY TIME THE POWER IS TURNED OFF TO THE FIRE PUMP AND/OR JOCKEY PUMP.



EQUIPMENT ROOM PLUMBING PLAN
SCALE: 1/4" = 1'-0"

- PLUMBING NOTES:**
1. ALL FLOOR DRAINS SHALL BE 3" IN SIZE.
 2. CONTRACTOR SHALL PROVIDE TWO 3/4" INTERIOR ROSE BIBBS WHERE DIRECTED BY THE ENGINEER AT THE JOB SITE.

NOTES:

1. FIRE PROTECTION CONTRACTOR SHALL FURNISH 6" RAISED CONCRETE EQUIPMENT BASE UNDER FIRE PUMP, JOCKEY PUMP & PUMP CONTROLLERS.



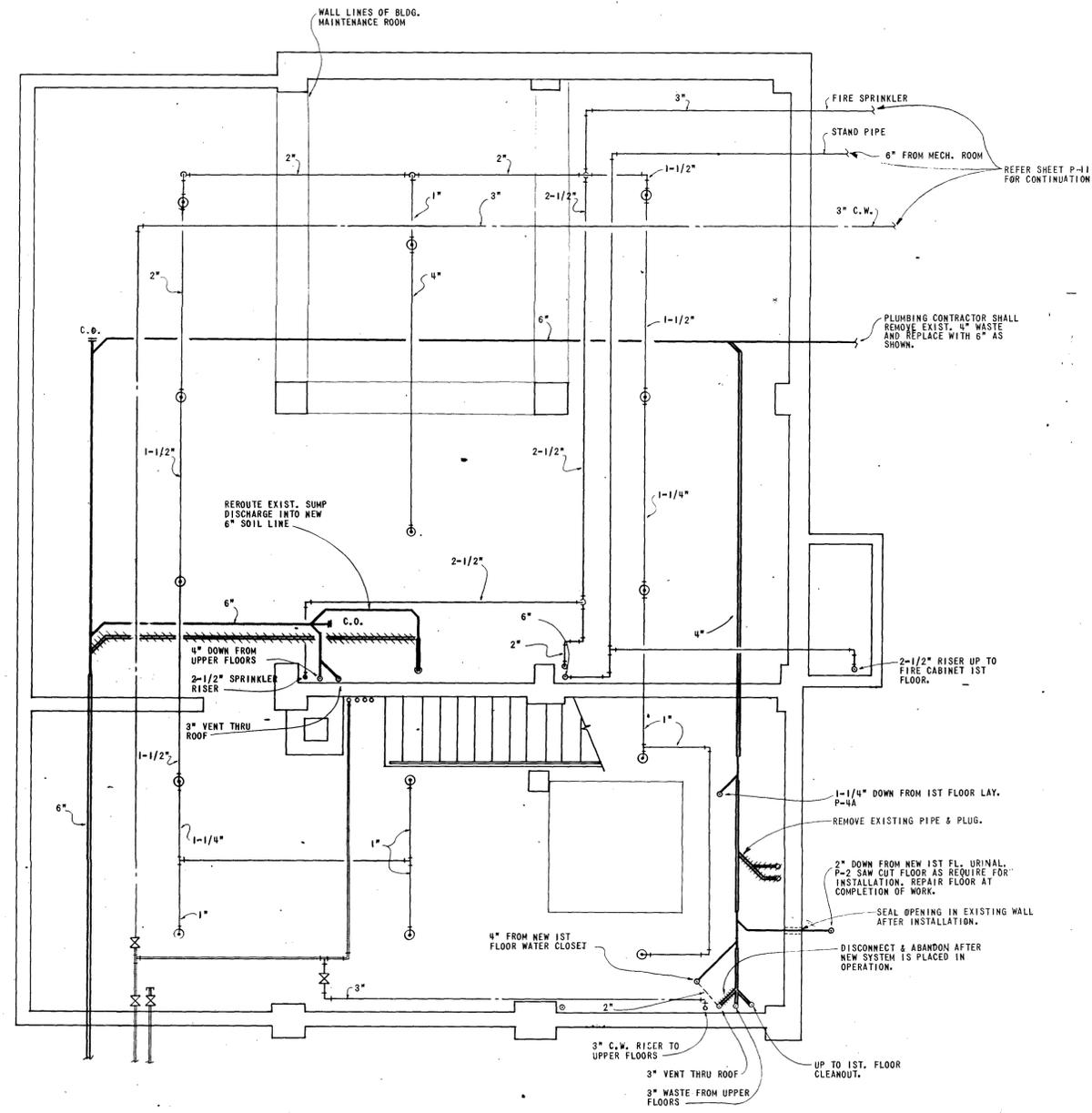
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REGISTERED PROFESSIONAL ARCHITECTS
ABILENE, TEXAS

WILLIAMS, TIPPETT & ASSOC., INC.
CONSULTING ENGINEERS
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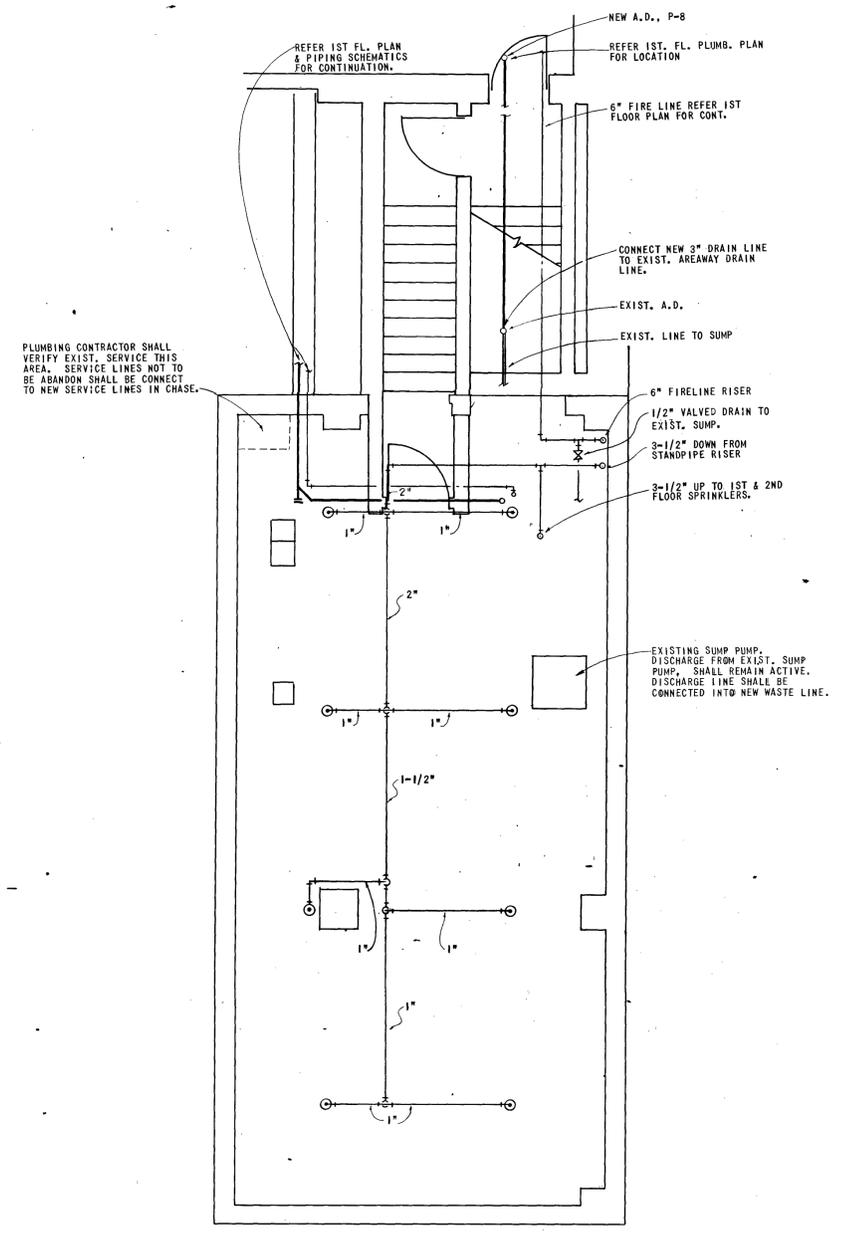
RENOVATION
BUILDING UTILITIES COMPANY
WEST TEXAS UTILITIES COMPANY
MAIN BUILDING
ABILENE, TEXAS

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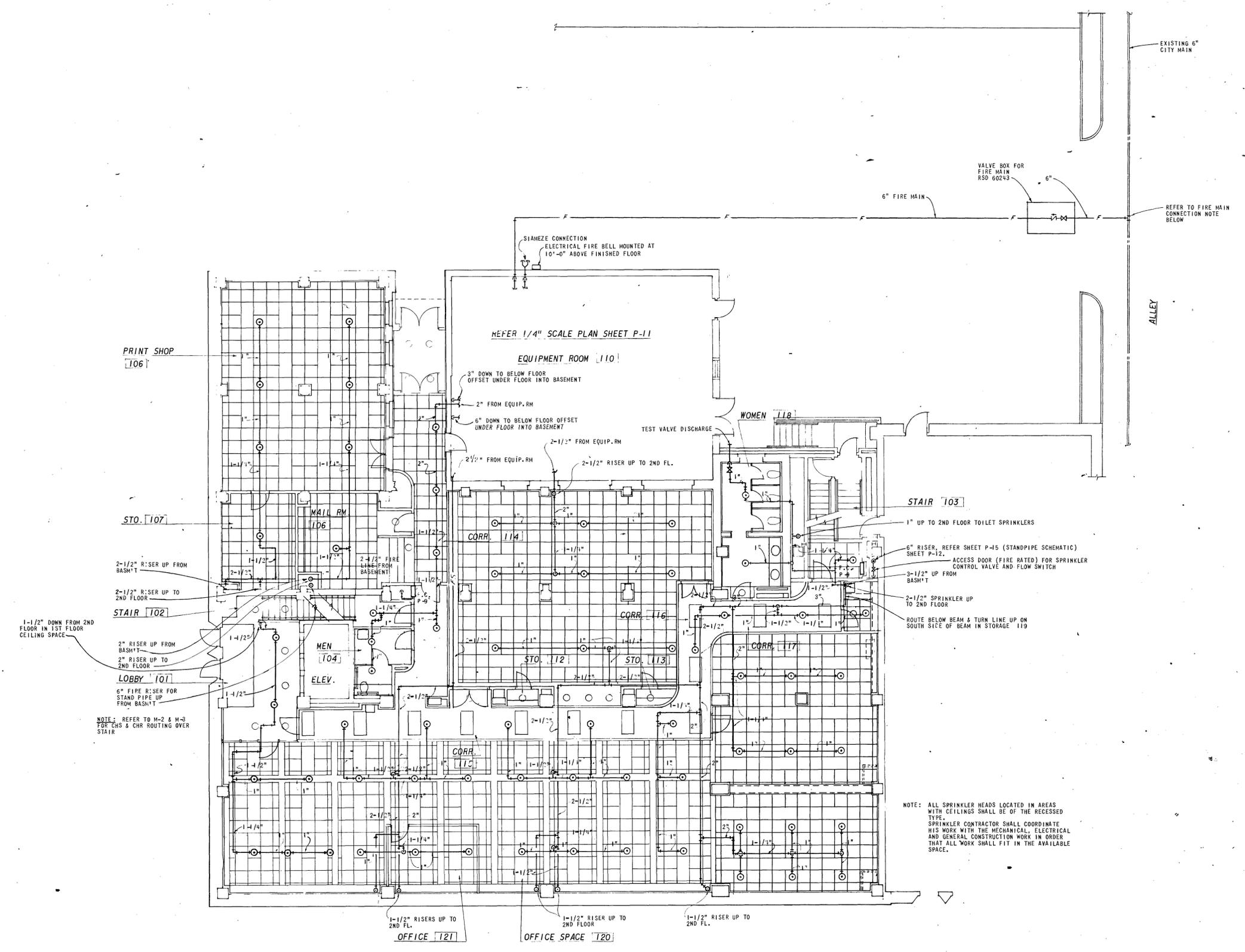


WEST BASEMENT
SCALE: 1/4" = 1'-0"

NOTE: AT EACH LOCATION, NEW DOMESTIC WATER LINE IS TO BE CONNECTED TO EXISTING 3" MAIN. CONTRACTOR SHALL PROVIDE CUT OFF VALVE.



EAST BASEMENT
SCALE: 1/4" = 1'-0"

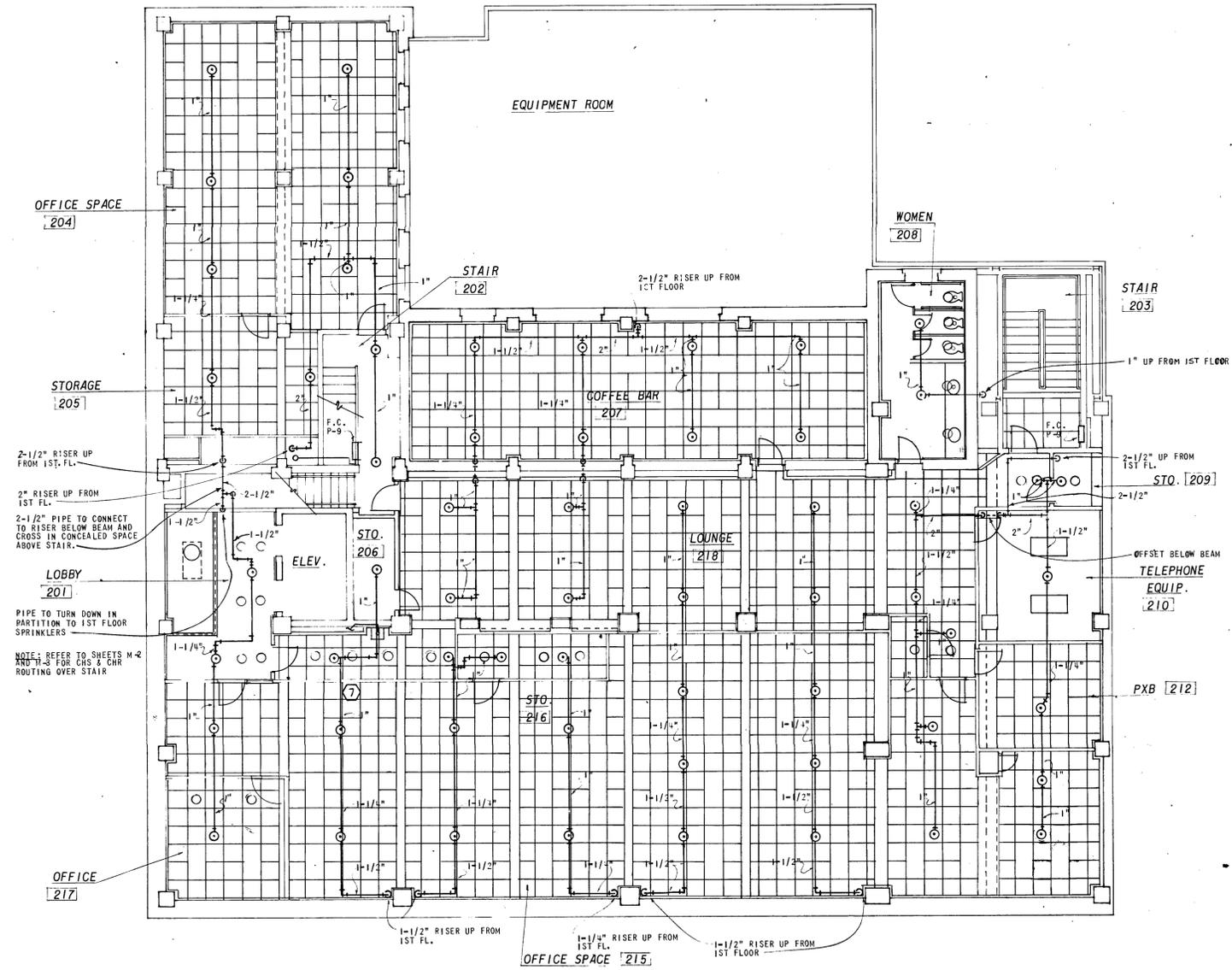


FIRST FLOOR PLUMBING PLAN - FIRE SPRINKLER
SCALE: 1/8"=1'-0"

NOTE: REFER TO M-2 & M-3 FOR GAS & CHR ROUTING OVER STAIR

NOTE: ALL SPRINKLER HEADS LOCATED IN AREAS WITH CEILINGS SHALL BE OF THE RECESSED TYPE. SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH THE MECHANICAL, ELECTRICAL AND GENERAL CONSTRUCTION WORK IN ORDER THAT ALL WORK SHALL FIT IN THE AVAILABLE SPACE.

NOTE: FIRE MAIN CONNECTION
THE PLUMBING CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF THE FIRE MAIN CONNECTION WITH THE CITY OF ABILENE WATER DEPARTMENT. CONTRACTOR SHALL PROVIDE EXCAVATION TO EXPOSE EXISTING 6" WATER MAIN AND SHALL EXTEND NEW FIRE MAIN TO EXISTING MAIN. WATER DEPARTMENT TO PROVIDE LABOR AND MATERIAL FOR CONNECTION OF PIPE MAIN TO EXISTING MAIN. CONTRACTOR TO VERIFY AND PAY ALL CHARGES FROM WATER DEPARTMENT FOR SAID CONNECTION. CONTRACTOR TO CLOSE EXCAVATION AND REPAIR ALLEY TO CITY SPECIFICATIONS.

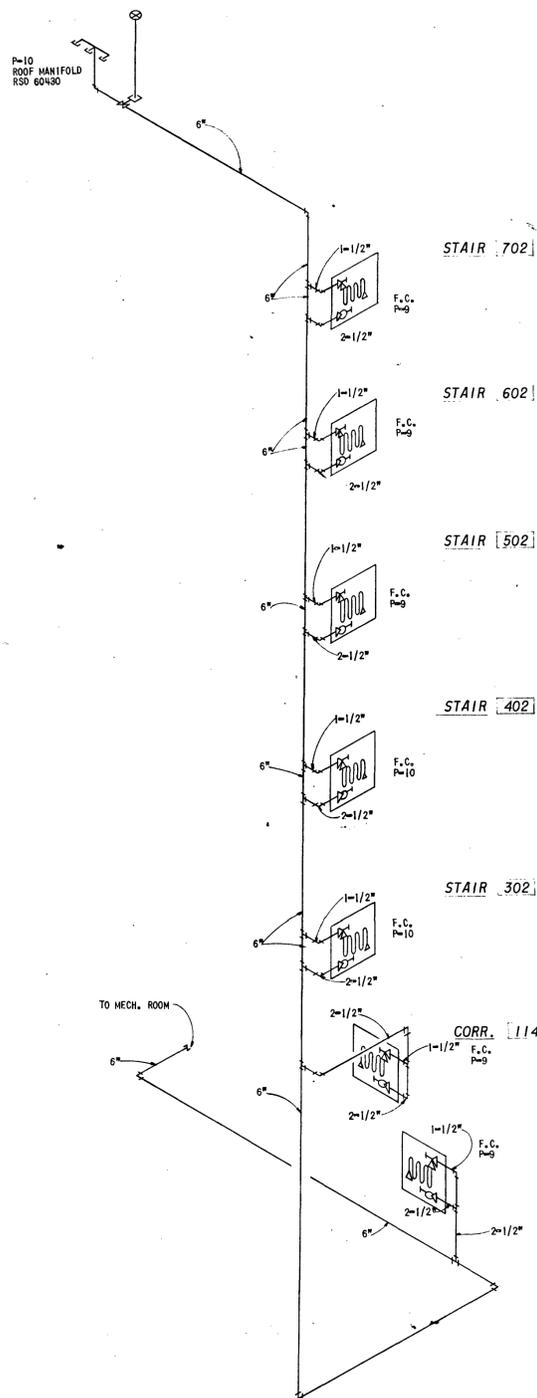


NOTE: REFER TO SHEETS M-2 AND M-3 FOR GAS & OIL ROUTING OVER STAIR



SECOND FLOOR PLUMBING PLAN-FIRE SPRINKLER
SCALE: 1/8"=1'-0"

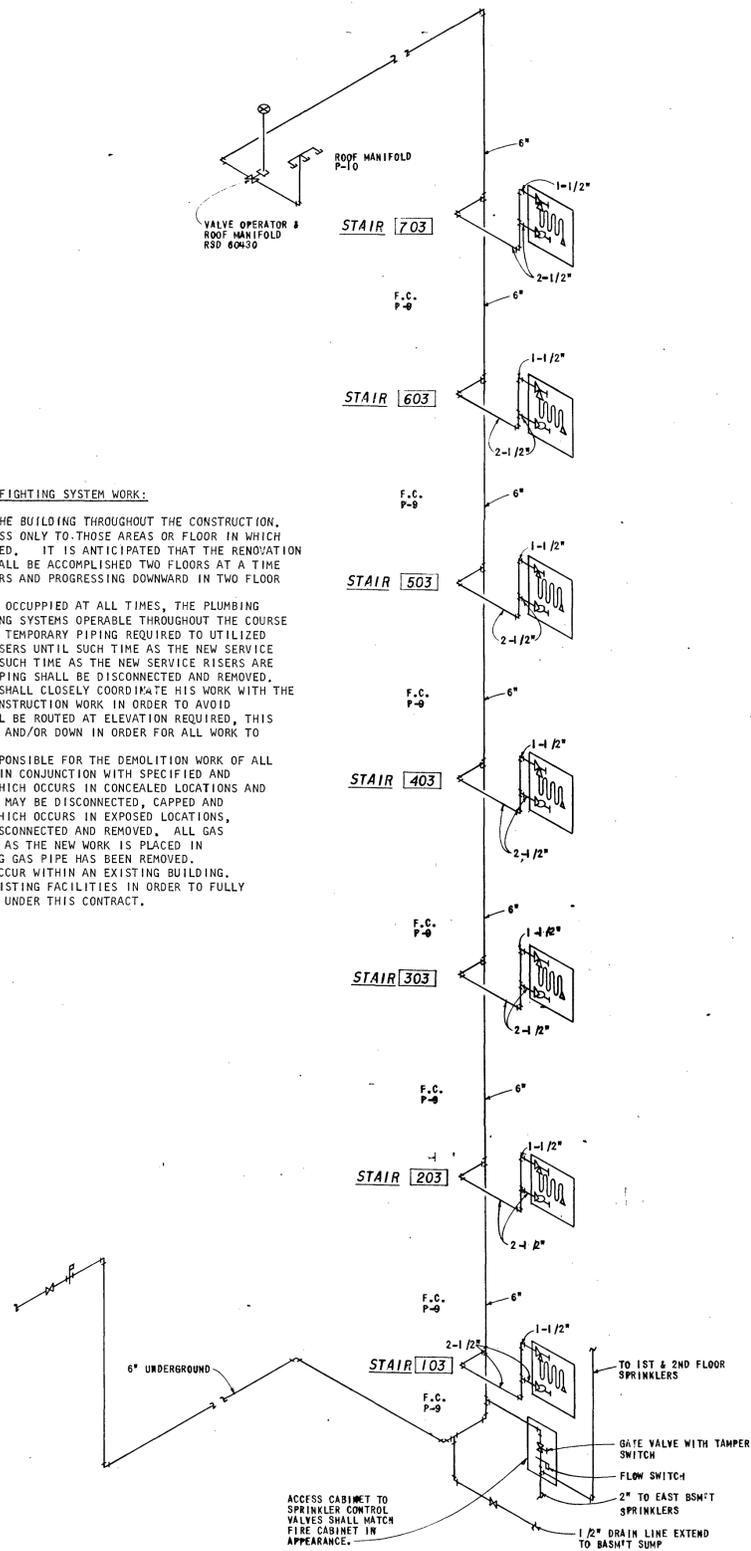
NOTE:
ALL SPRINKLER HEADS LOCATED IN AREAS WITH CEILINGS SHALL BE OF THE RECESSED TYPE.
SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH MECHANICAL AND ELECTRICAL AND GENERAL CONSTRUCTION WORK IN ORDER THAT ALL WORK SHALL FIT IN THE AVAILABLE SPACE.



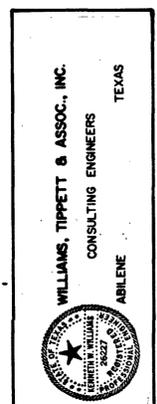
FIRE STANDPIPE RISER DIAGRAM
NO SCALE

GENERAL NOTES FOR PLUMBING AND FIRE FIGHTING SYSTEM WORK:

1. THE OWNER SHALL OCCUPY PORTIONS OF THE BUILDING THROUGHOUT THE CONSTRUCTION. THE CONTRACTOR SHALL BE ALLOWED ACCESS ONLY TO THOSE AREAS OR FLOOR IN WHICH THE CONSTRUCTION IS BEING ACCOMPLISHED. IT IS ANTICIPATED THAT THE RENOVATION WORK WITHIN THE EXISTING BUILDING SHALL BE ACCOMPLISHED TWO FLOORS AT A TIME BEGINNING ON THE UPPER MOST TWO FLOORS AND PROGRESSING DOWNWARD IN TWO FLOOR INTERVALS.
2. DUE TO THE FACT THE BUILDING WILL BE OCCUPIED AT ALL TIMES, THE PLUMBING CONTRACTOR SHALL MAINTAIN THE PLUMBING SYSTEMS OPERABLE THROUGHOUT THE COURSE OF CONSTRUCTION. THIS SHALL INCLUDE TEMPORARY PIPING REQUIRED TO UTILIZED THE EXISTING SEWER VENT AND WATER RISERS UNTIL SUCH TIME AS THE NEW SERVICE RISERS ARE PLACED IN OPERATION. AT SUCH TIME AS THE NEW SERVICE RISERS ARE PLACED IN OPERATION ALL TEMPORARY PIPING SHALL BE DISCONNECTED AND REMOVED.
3. THE FIRE FIGHTING SYSTEM CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THE MECHANICAL, ELECTRICAL AND GENERAL CONSTRUCTION WORK IN ORDER TO AVOID INTERFERENCE WITH SAME. PIPING SHALL BE ROUTED AT ELEVATION REQUIRED, THIS SHALL INCLUDE OFFSETTING THE PIPE UP AND/OR DOWN IN ORDER FOR ALL WORK TO FIT WITHIN THE AVAILABLE SPACE.
4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION WORK OF ALL PLUMBING SYSTEMS NOT TO BE UTILIZED IN CONJUNCTION WITH SPECIFIED AND SCHEDULED NEW WORK. EXISTING WORK WHICH OCCURS IN CONCEALED LOCATIONS AND DOES NOT INTERFERE WITH THE NEW WORK MAY BE DISCONNECTED, CAPPED AND ABANDONED IN PLACE. EXISTING WORK WHICH OCCURS IN EXPOSED LOCATIONS, INTERFERES WITH NEW WORK SHALL BE DISCONNECTED AND REMOVED. ALL GAS PIPING SHALL BE REMOVED AT SUCH TIME AS THE NEW WORK IS PLACED IN OPERATION AND THE USE OF THE EXISTING GAS PIPE HAS BEEN REMOVED.
5. THE MAJORITY OF THE NEW WORK SHALL OCCUR WITHIN AN EXISTING BUILDING. THE CONTRACTORS SHALL EXAMINE THE EXISTING FACILITIES IN ORDER TO FULLY ASCERTAIN THE FULL SCOPE OF HIS WORK UNDER THIS CONTRACT.



FIRE STANDPIPE RISER DIAGRAM
NO SCALE



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