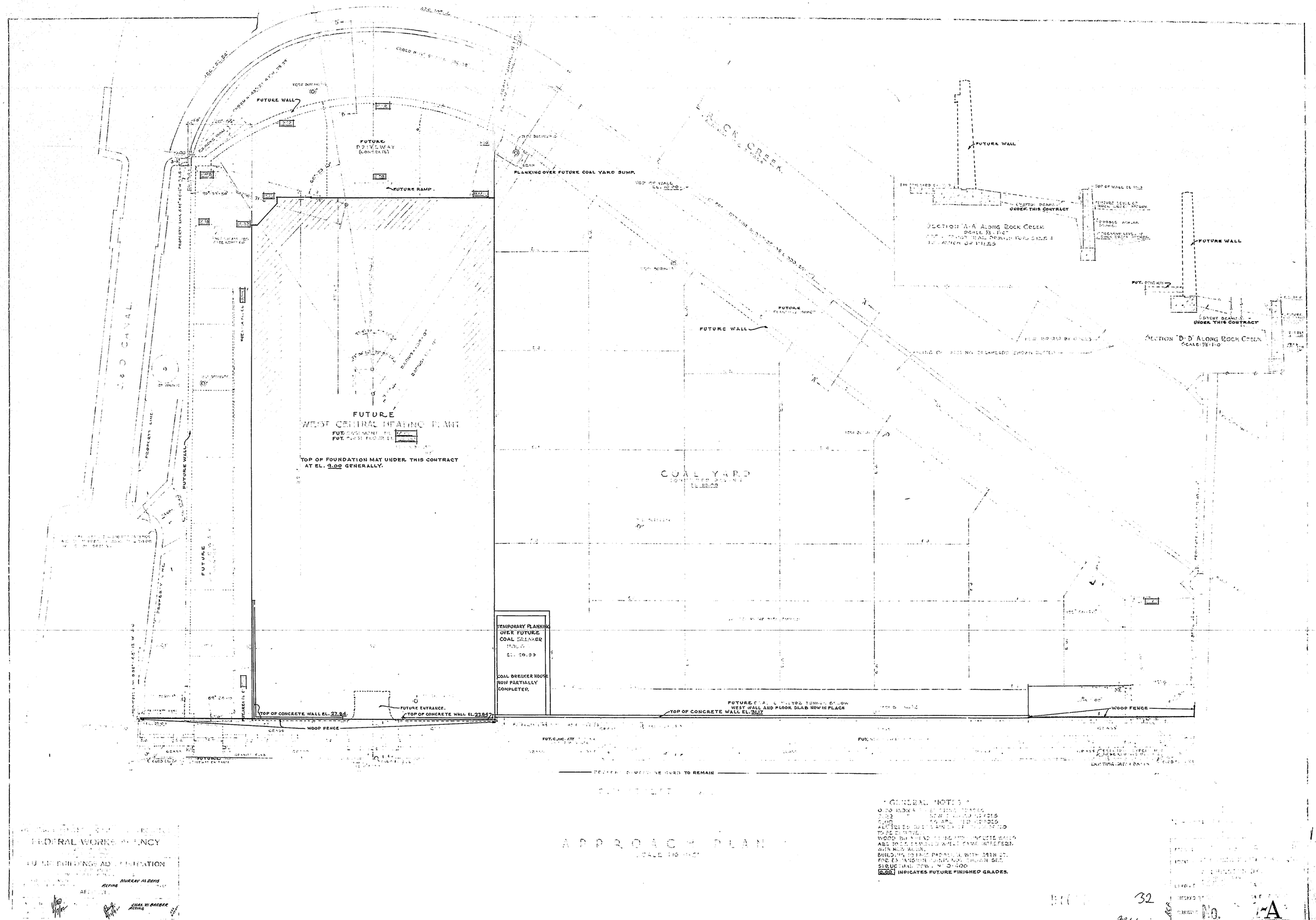
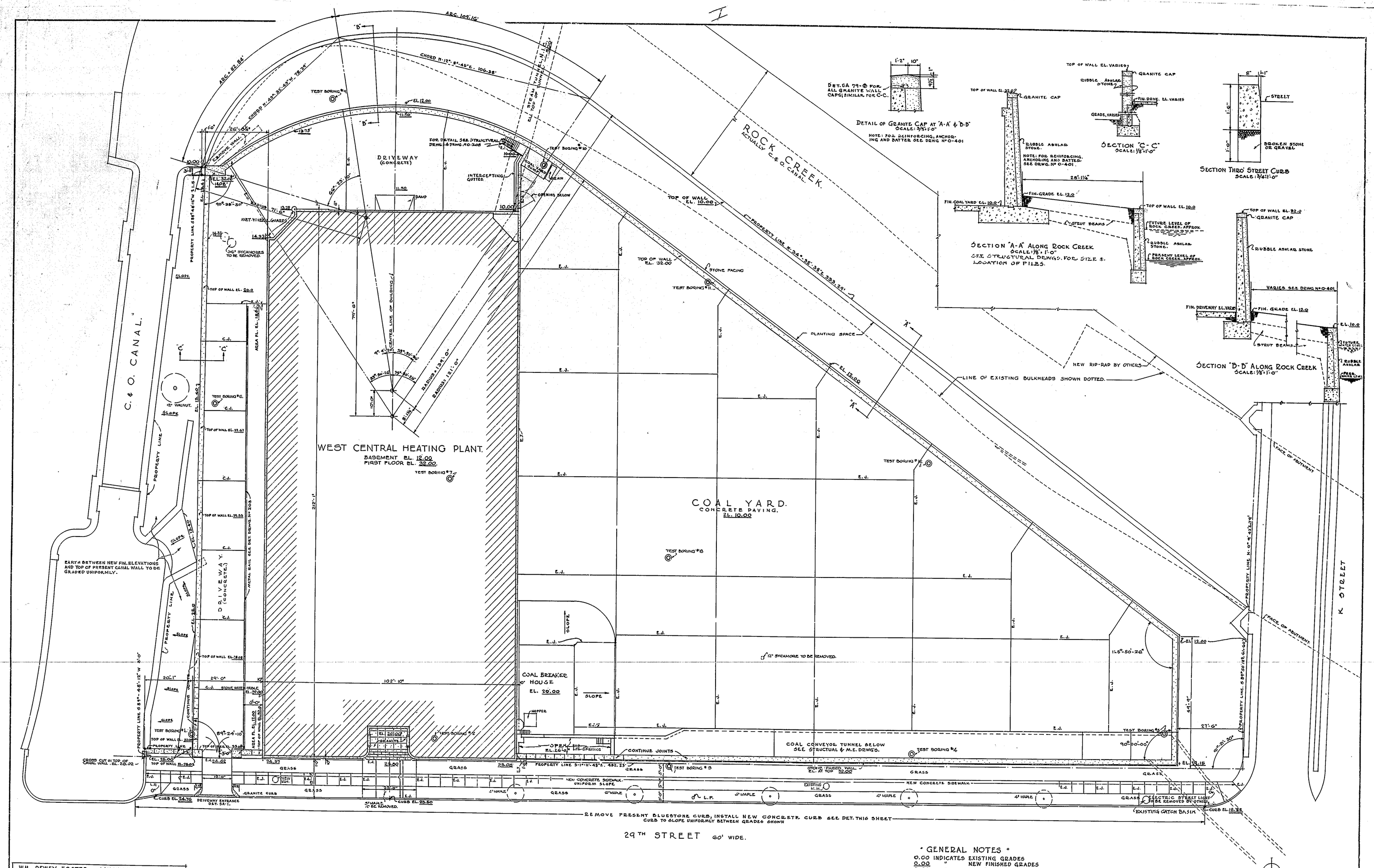


FUTURE WALL
FUTURE DRIVEWAY (CONCRETE)
FUTURE RAMP.
PLANKING OVER FUTURE COAL YARD SUMP.
ROCK CREEK
FUTURE WALL
SECTION "A-A" ALONG ROCK CREEK
UNDER THIS CONTRACT
FUTURE WALL
SECTION "B-B" ALONG ROCK CREEK
UNDER THIS CONTRACT
FUTURE WALL
FUTURE WEST CENTRAL HEATING PLANT
TOP OF FOUNDATION MAT UNDER THIS CONTRACT AT EL. 9.00 GENERALLY.
COAL YARD
FUTURE WALL
FUTURE
TEMPORARY PLANKING OVER FUTURE COAL BREAKER HOUSE
COAL BREAKER HOUSE NOW PARTIALLY COMPLETED.
TOP OF CONCRETE WALL EL. 27.84.
FUTURE ENTRANCE.
TOP OF CONCRETE WALL EL. 27.84
WOOD FENCE
TOP OF CONCRETE WALL EL. 31.17
WOOD FENCE
GRASS
GRASS
GRASS
FUTURE
FUTURE
EXISTING GATE & PIERS
PROPERTY STRUCTURE GUARD TO REMAIN
APPROACH PLAN
GENERAL NOTES
0.00 INDICATES FUTURE FINISHED GRADES.
FEDERAL WORKS AGENCY
PUBLIC BUILDINGS ADMINISTRATION
MURRAY M. DAVIS
ACTING
CHAS. W. BARBER
ACTING
32
No. A
RETURN TO ROOM 411



APPROACH PLAN.
SCALE 1/16"=1'-0"

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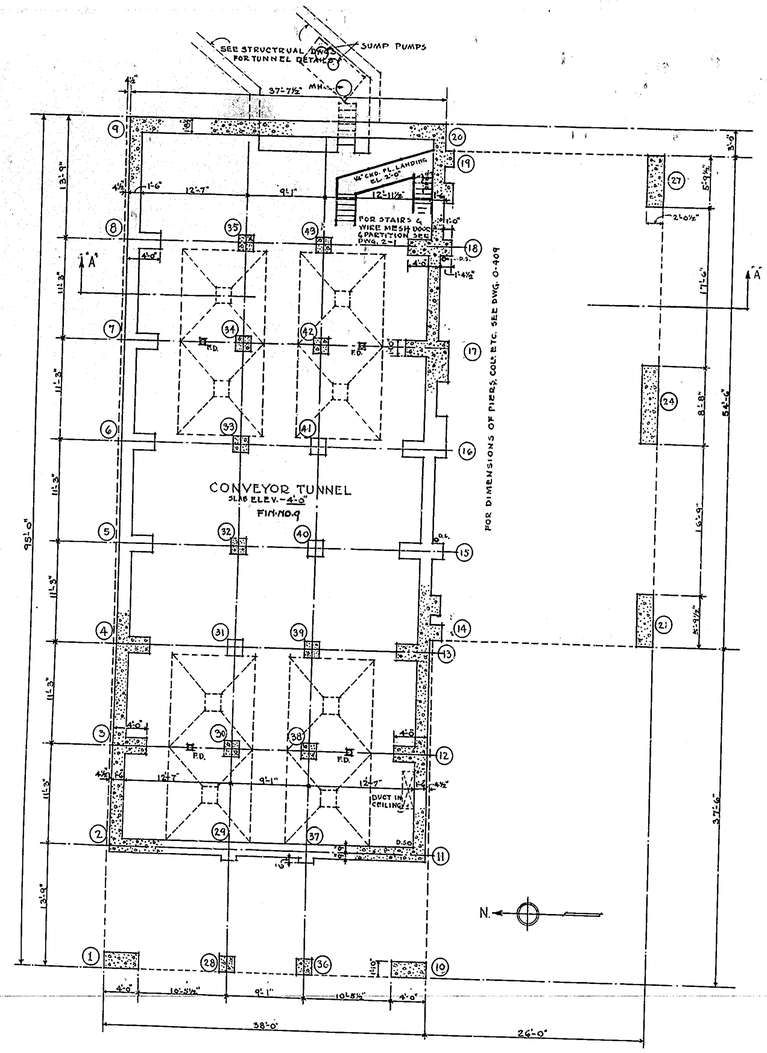
* GENERAL NOTES *

0.00 INDICATES EXISTING GRADES
0.00 " NEW FINISHED GRADES
0.00 " ESTABLISHED GRADES
ALL TREES TO REMAIN EXCEPT THOSE NOTED TO BE REMOVED.
WOOD BULKHEAD, STONE AND CONCRETE WALLS ARE TO BE REMOVED WHERE SAME INTERFERE WITH NEW WORK.
BUILDING TO FACE PARALLEL WITH 29TH. ST.
FOR EXPANSION JOINTS NOT SHOWN SEE STRUCTUAL DRWG. No. O-400
GRASS AREAS TO SLOPE UNIFORMLY BETWEEN NEW FINISHED GRADES AND SIDEWALKS & CURBS.

PROJECT WEST CENTRAL HEATING PLANT
LOCATION N.E. CORNER OF 24TH. & K STS. N.W.
WASHINGTON, D.C.
DRAWN BY K. ZONNEMANN, E. CULLITY, E. WITHERELL DATE
CHECKED BY N.D. DATE 6-20-41
DRAWING No. 1

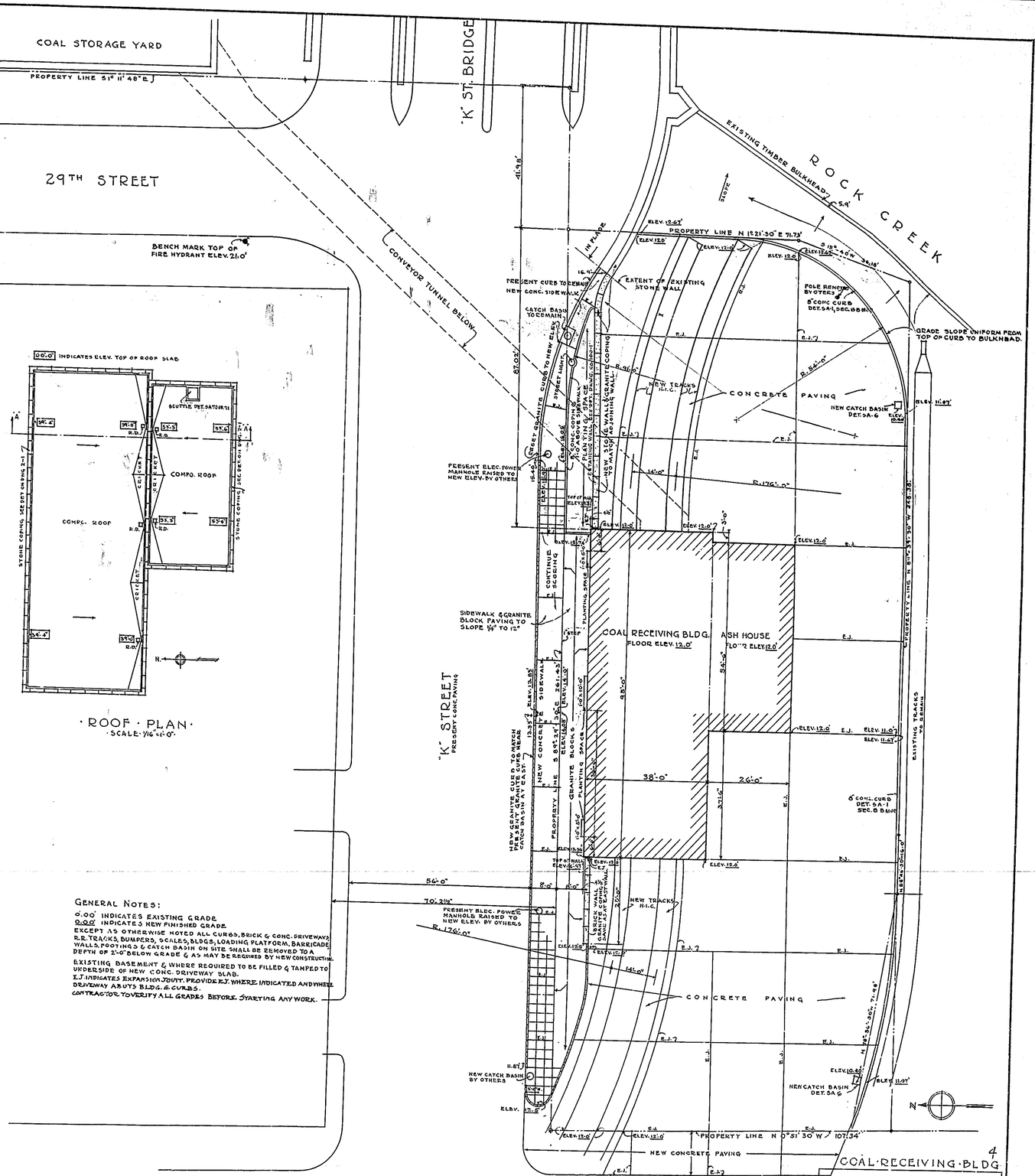
33

RETURN TO ROOM 41Y



·BASEMENT·FLOOR·PLAN·
·SCALE·1/8"=1'-0"·

·ROOF·PLAN·
·SCALE·1/16"=1'-0"·



·APPROACH·PLAN·
·SCALE·1/16"=1'-0"·

GENERAL NOTES:

0.00' INDICATES EXISTING GRADE.
0.00' INDICATES NEW FINISHED GRADE.
EXCEPT AS OTHERWISE NOTED ALL CURBS, BRICK & CONC. DRIVEWAYS, R.R. TRACKS, BUMPERS, SCALES, BLDGS., LOADING PLATFORM, BARRICADE WALLS, FOOTINGS & CATCH BASIN ON SITE SHALL BE REMOVED TO A DEPTH OF 2'-0" BELOW GRADE & AS MAY BE REQUIRED BY NEW CONSTRUCTION.
EXISTING BASEMENT & WHERE REQUIRED TO BE FILLED & TAMPED TO UNDERSIDE OF NEW CONC. DRIVEWAY SLAB.
E.J. INDICATES EXPANSION JOINT. PROVIDE E.J. WHERE INDICATED AND WHERE DRIVEWAY ABUTS BLDG. & CURBS.
CONTRACTOR TO VERIFY ALL GRADES BEFORE STARTING ANY WORK.

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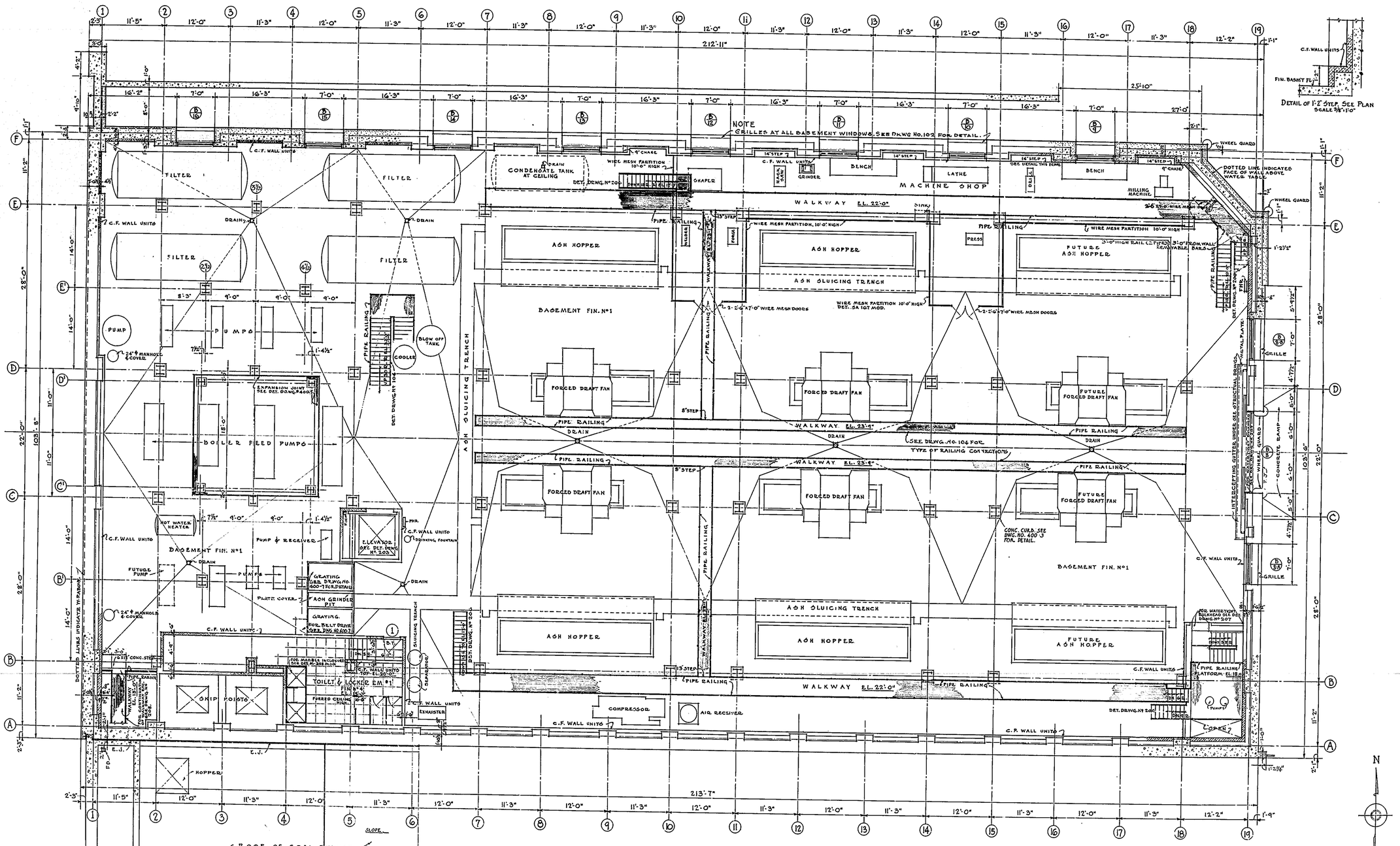
4
COAL·RECEIVING·BLDG

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: SOUTH SIDE OF K ST. N.W. BETWEEN 29TH & 30TH STS.
WASHINGTON, D.C.
DRAWN BY: HOOE DATE:
CHECKED BY: N.D. DATE: 6-30-41
DRAWING No. 1-1

D0000222 34

RETURN TO ROOM 417



BASEMENT FLOOR PLAN

SCALE: 1/8"=1'-0"
EL. 12'-0" H.P.
ELEV. OF ALL DRAINS 11'-11"

NOTES
INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED OR SHOWN.
FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC., SEE DRAWING No 200

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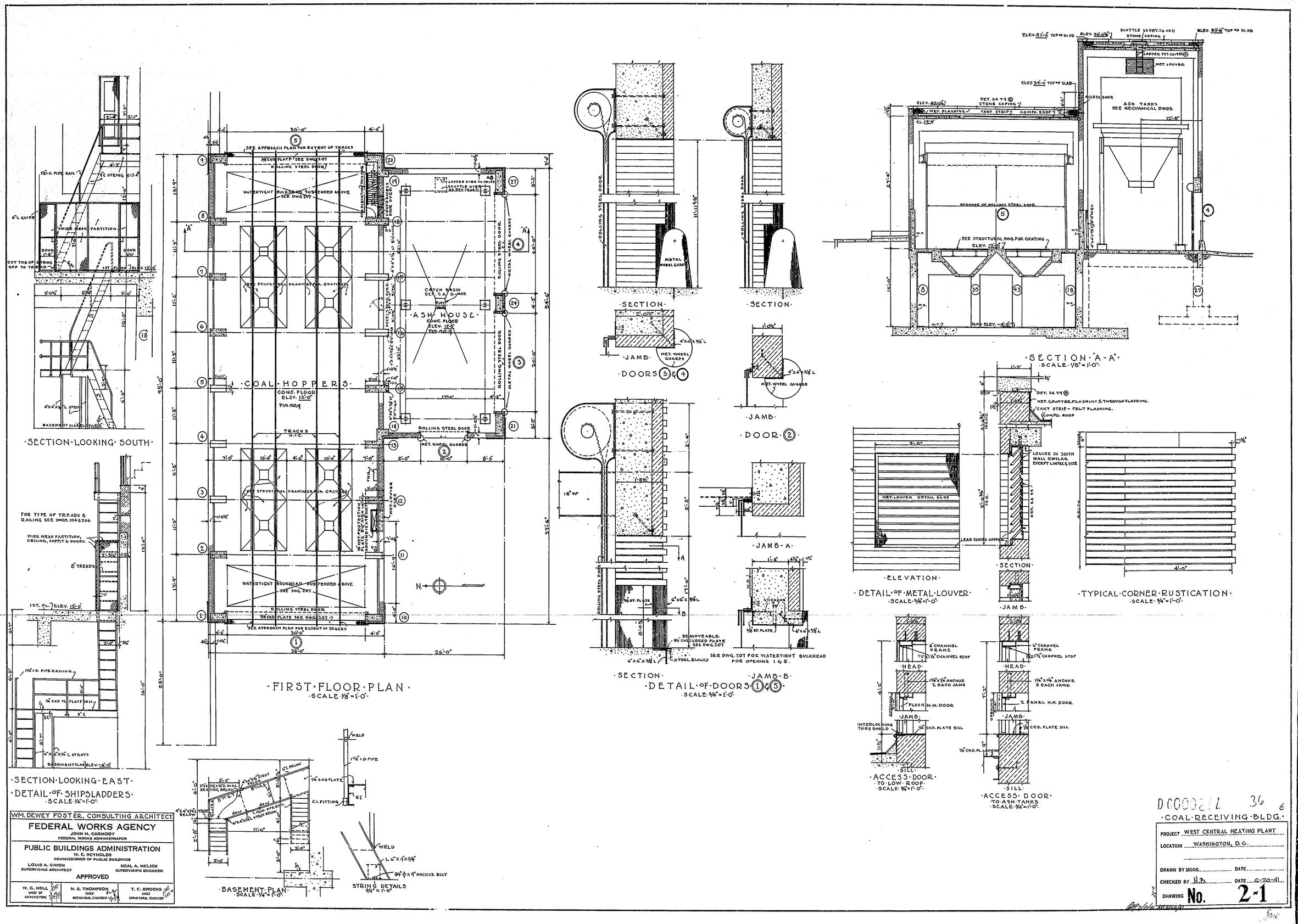
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY SONNEMANN DATE
CHECKED BY N.D. DATE 6-23-41
DRAWING No. 2

35

RETURN TO ROOM 411


SECTION LOOKING SOUTH
SECTION LOOKING EAST
DETAIL OF SHIPSLADDERS
SCALE 1/4" = 1'-0"
COAL HOPPERS
CONC. FLOOR ELEV. 12'-0"
ASH HOUSE
CONC. FLOOR ELEV. 12'-0"
SEE APPROACH PLAN FOR EXTENT OF TRACKS
WATERTIGHT BULKHEAD SUSPENDED ABOVE SEE DWG. 207
ROLLING STEEL DOOR
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"
BASEMENT PLAN
SCALE 1/4" = 1'-0"
STRING DETAILS
SCALE 3/4" = 1'-0"
SECTION
JAMB
DOORS 3 & 4
DOOR 2
JAMB-A
JAMB-B
DETAIL OF DOORS 1 & 5
SCALE 3/4" = 1'-0"
SECTION A-A
SCALE 1/8" = 1'-0"
ASH TANKS SEE MECHANICAL DWGS.
ELEVATION
DETAIL OF METAL LOUVER
SCALE 3/4" = 1'-0"
SECTION
JAMB
TYPICAL CORNER RUSTICATION
SCALE 3/4" = 1'-0"
HEAD
SILL
ACCESS DOOR TO LOW ROOF
SCALE 3/4" = 1'-0"
ACCESS DOOR TO ASH TANKS
SCALE 3/4" = 1'-0"
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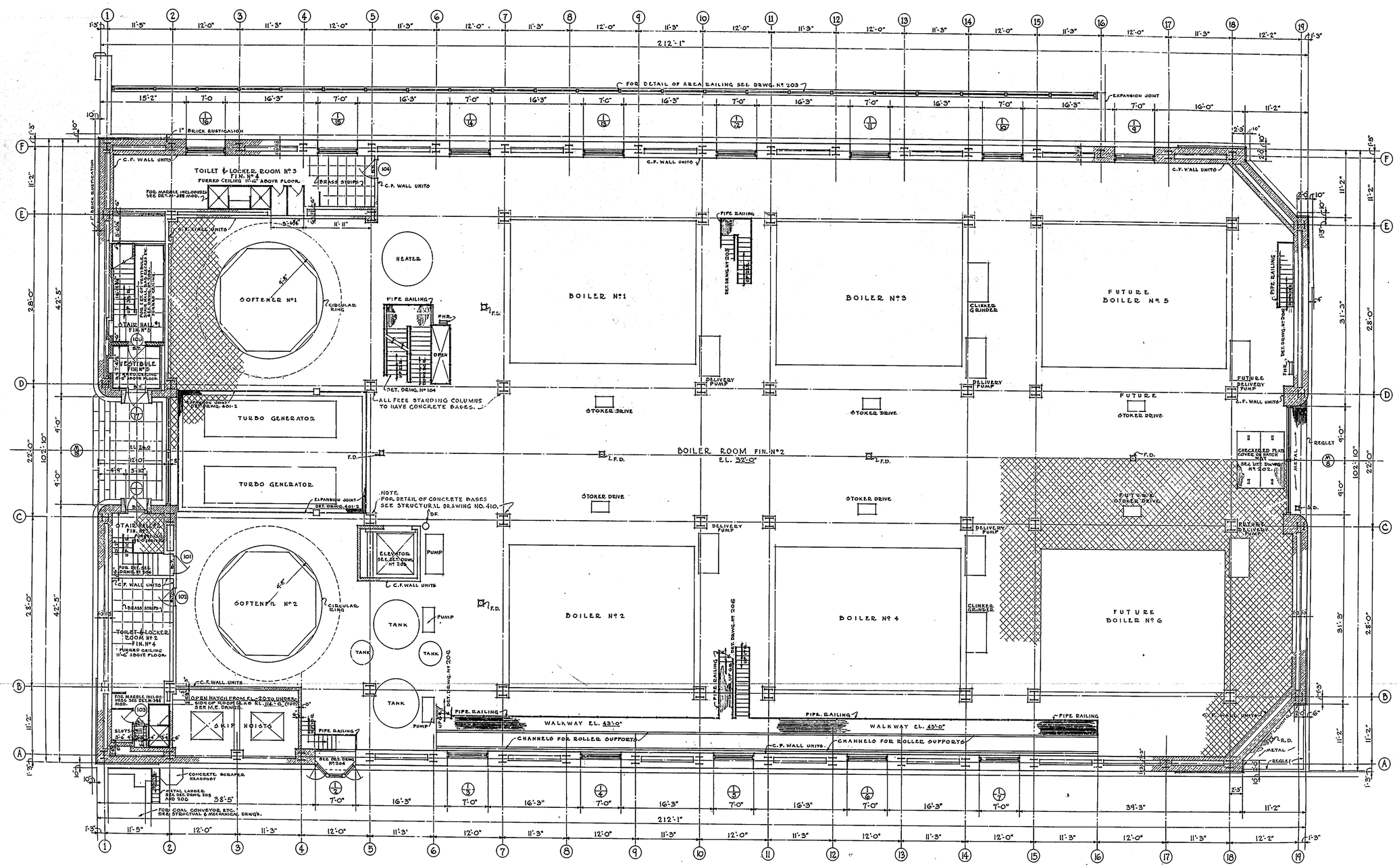
CHIEF MECHANICAL ENGINEER
T. C. BROOKS
CHIEF STRUCTURAL ENGINEER
COAL RECEIVING BLDG.
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY
CHECKED BY
DATE
DRAWING No. 2-1
RETURN TO ROOM 411



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"
EL. 32'-0"

NOTES

INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED OR SHOWN.
FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC SEE DRAWING NO. 200.

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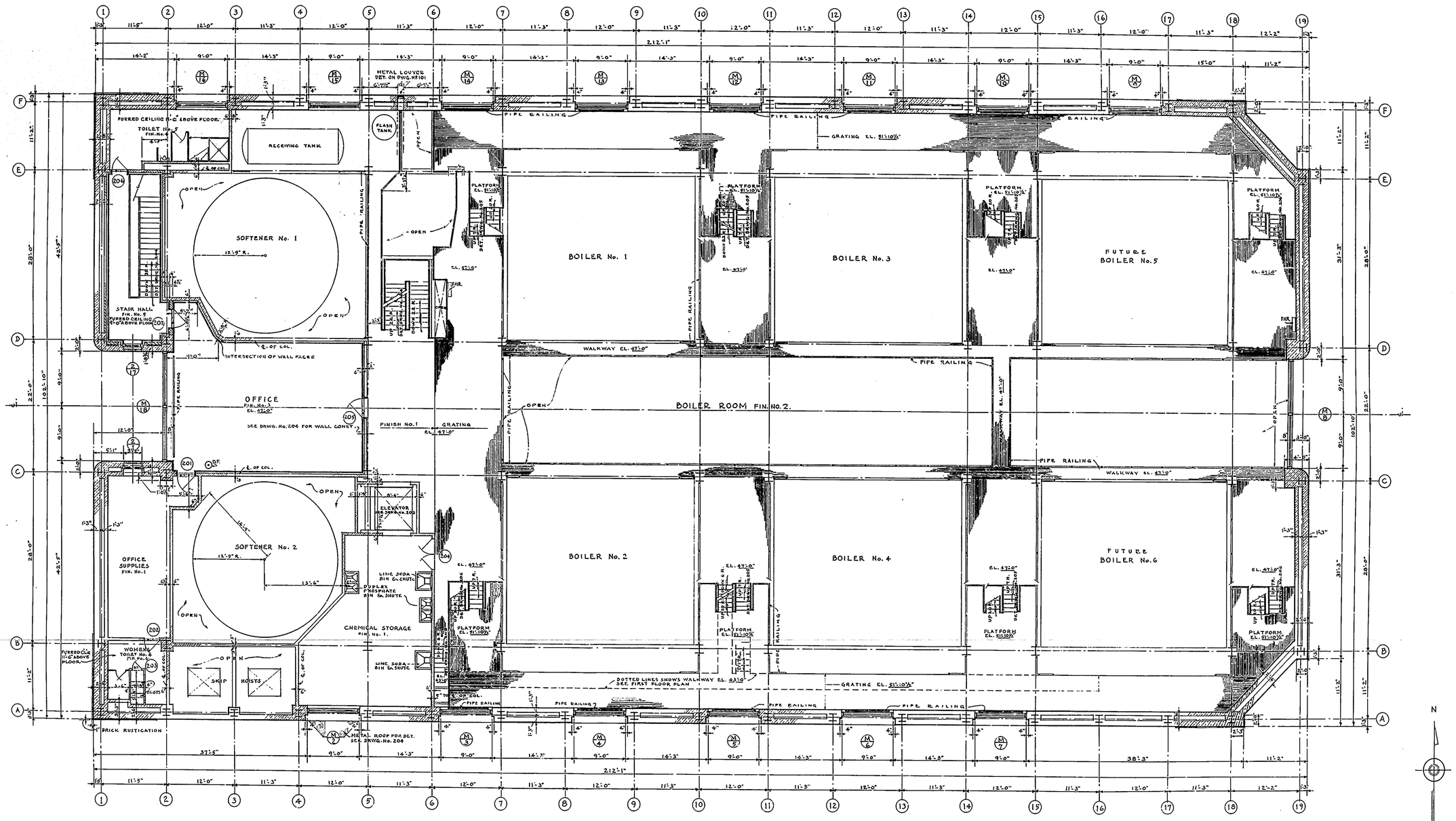
37 7

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY SONNEMANN DATE
CHECKED BY N.D. DATE 6-20-41
DRAWING No. 3

RETURN TO ROOM 411



- SECOND FLOOR PLAN -

SCALE 1/8"=1'-0"
EL. 47'-0"

NOTES

INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED OR SHOWN.
FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC. SEE DRAWING No. 200.

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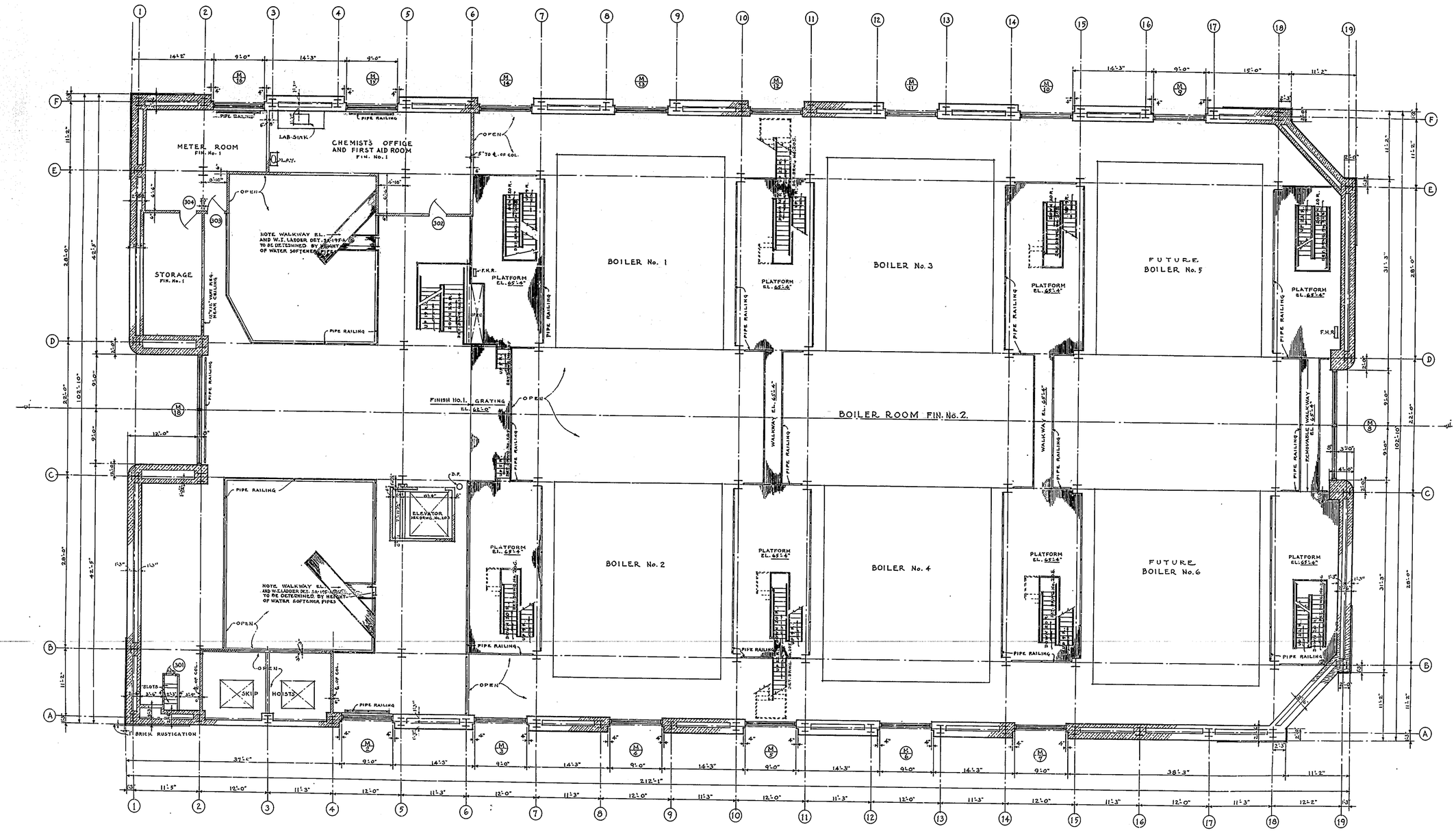
D COOO... 1

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY BONNEMANN PETULLO DATE
CHECKED BY N.D. DATE 6-20-41
DRAWING No. 4

RETURN TO ROOM 411 /20



THIRD FLOOR PLAN

SCALE 1/8" = 1'-0"
EL. 62'-0"

NOTES

INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED OR SHOWN.
FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC SEE DRAWING NO. 200.

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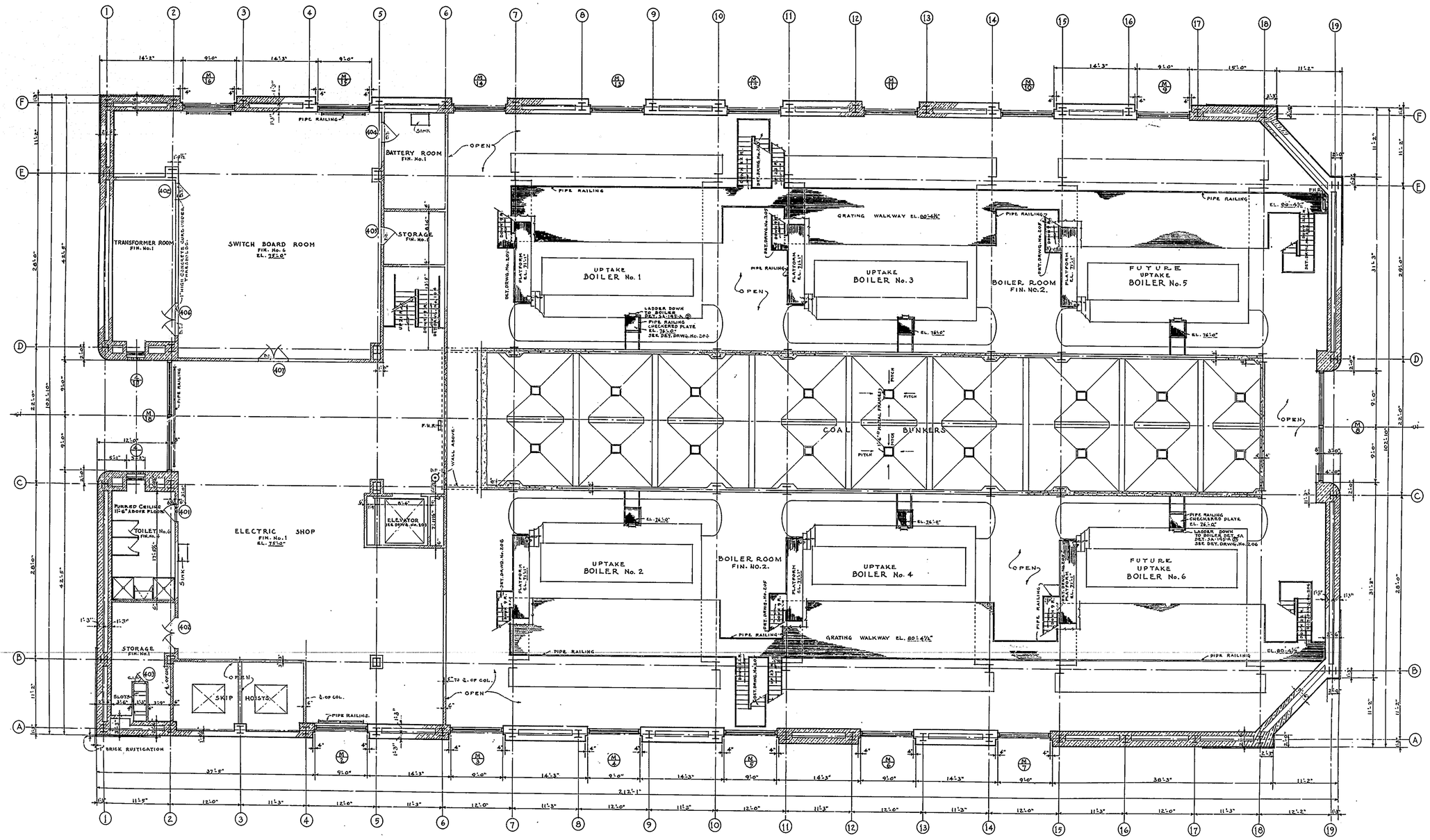
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY SOHNEMANN PETRILLO DATE
CHECKED BY N.D. DATE 6-20-41
DRAWING No. 5

RETURN TO ROOM 411

3



FOURTH FLOOR PLAN

SCALE 1/8" = 1'-0"
EL. 75'-0"

NOTES

INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED OR SHOWN.
FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC SEE DRAWING No. 200.

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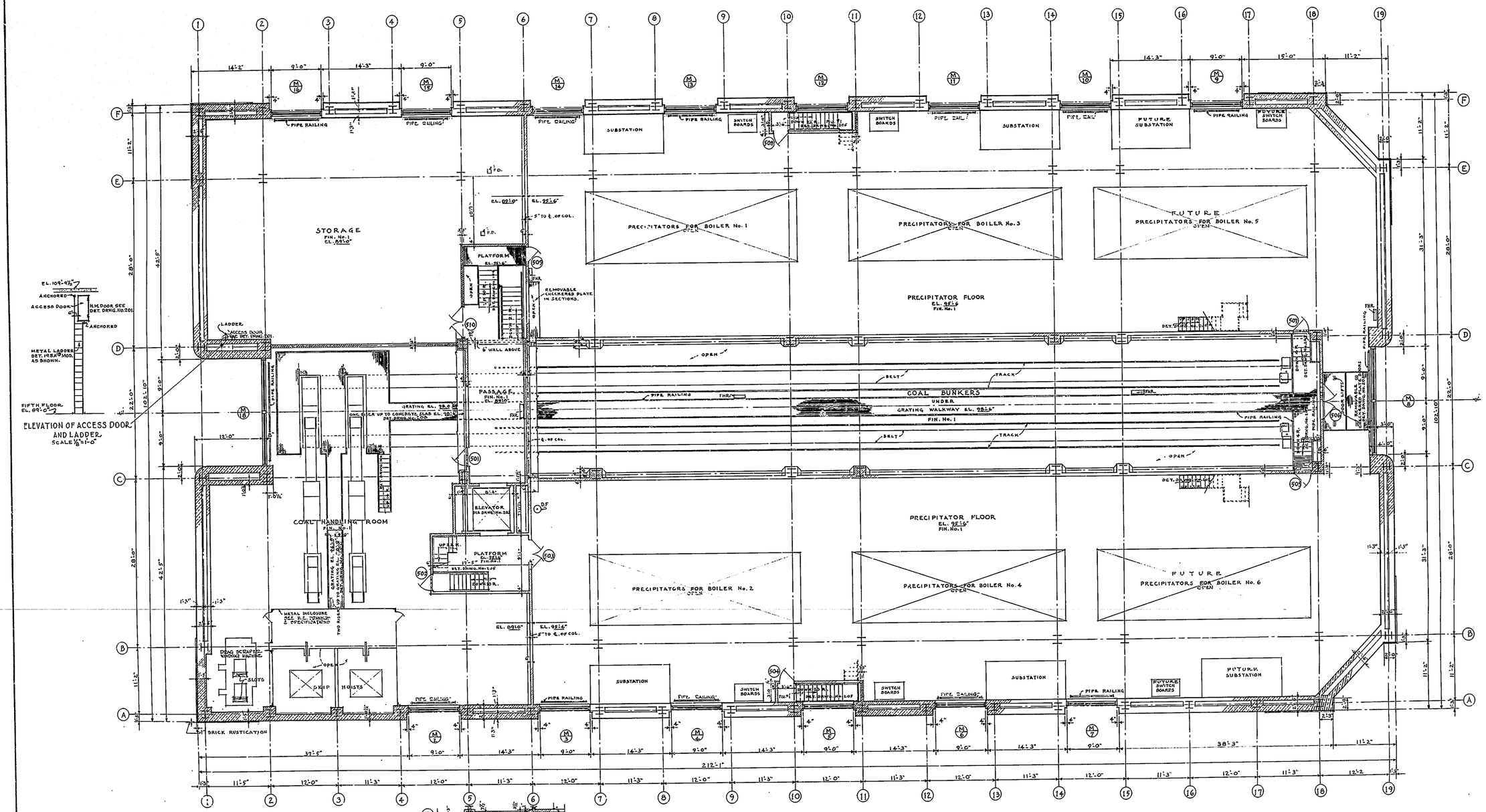
D C000 2 7 45

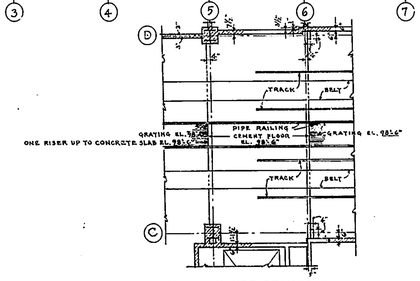
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY PETRILLO DATE
CHECKED BY N.B. DATE 6-20-41
DRAWING No. 6

RETURN TO ROOM 414



FIFTH FLOOR PLAN

SCALE 1/8"=1'-0"
EL. 89'-0"



PLAN AT TOP OF PASSAGE

NOTES

INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED OR SHOWN.
FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC SEE DRAWING No. 200.

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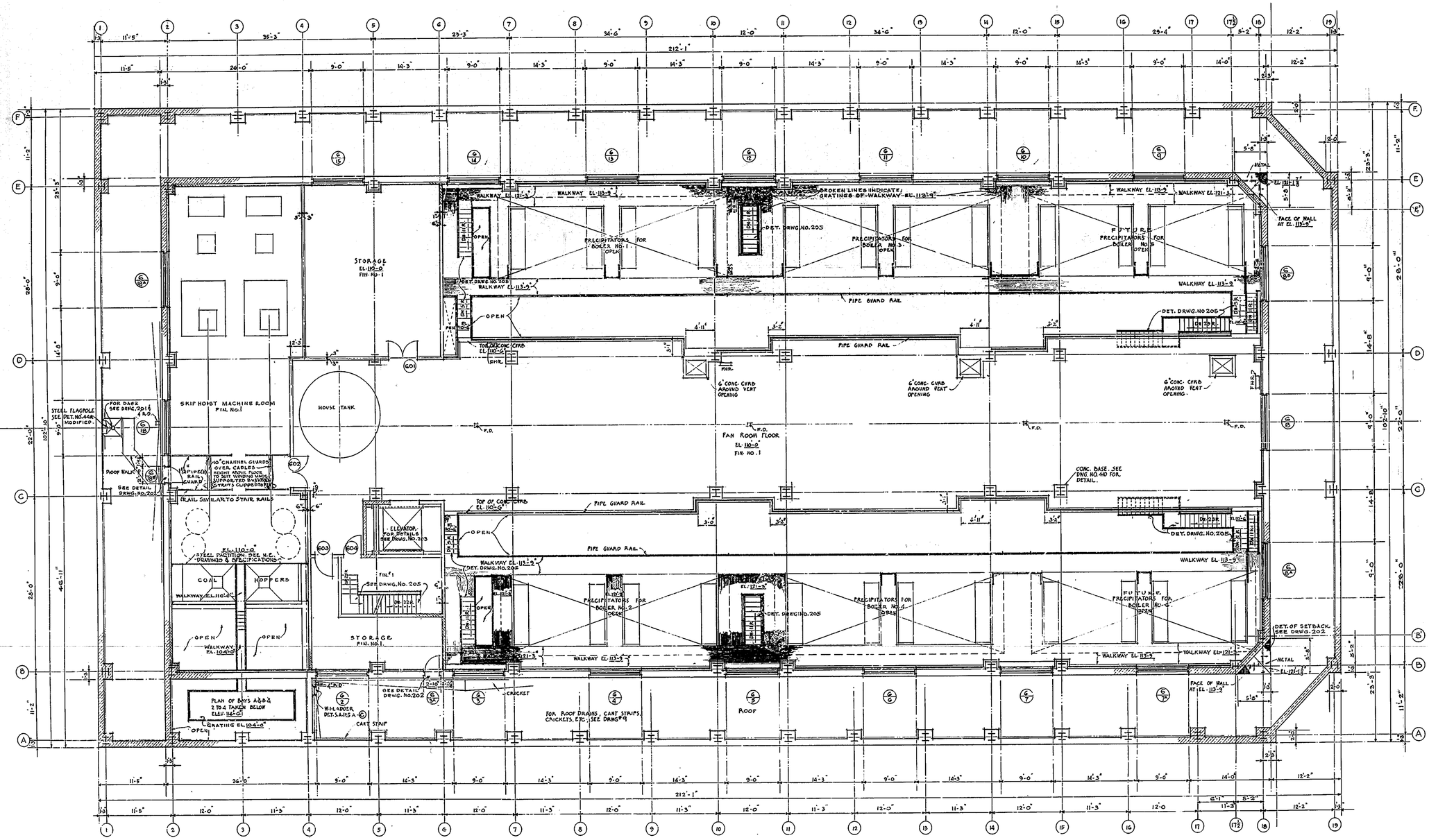
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY PETRILLO DATE
CHECKED BY N.B. DATE 3-20-41
DRAWING No. 7

RETURN TO ROOM 41V



SIXTH FLOOR PLAN

SCALE 1/8" = 1'-0"

EL. 110'-0"

NOTES

INTERIOR PARTITIONS TO BE 6" THICK, OF CERAMIC FACED WALL UNITS UNLESS OTHERWISE NOTED.

FINISH NOTES, DOOR SCHEDULE, MISC. DETAILS, ETC. SEE DRAWING No. 200.

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PROJECT WEST CENTRAL HEATING PLANT

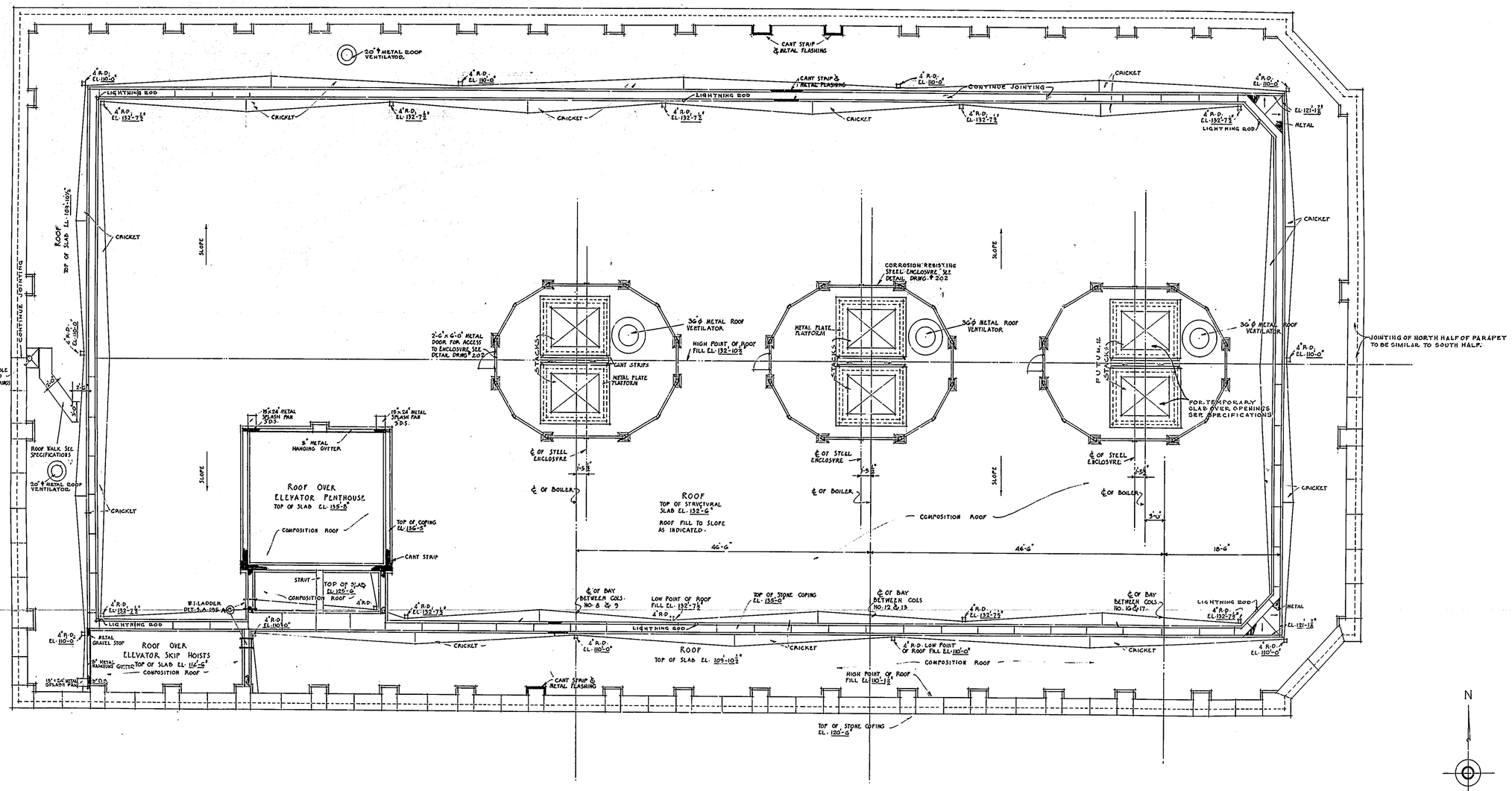
LOCATION WASHINGTON, D.C.

DRAWN BY F.W.D. DATE

CHECKED BY N.D. DATE 6-20-41

DRAWING No. 8

RETURN TO ROOM 411



ROOF PLAN
SCALE 1/8" = 1'-0".

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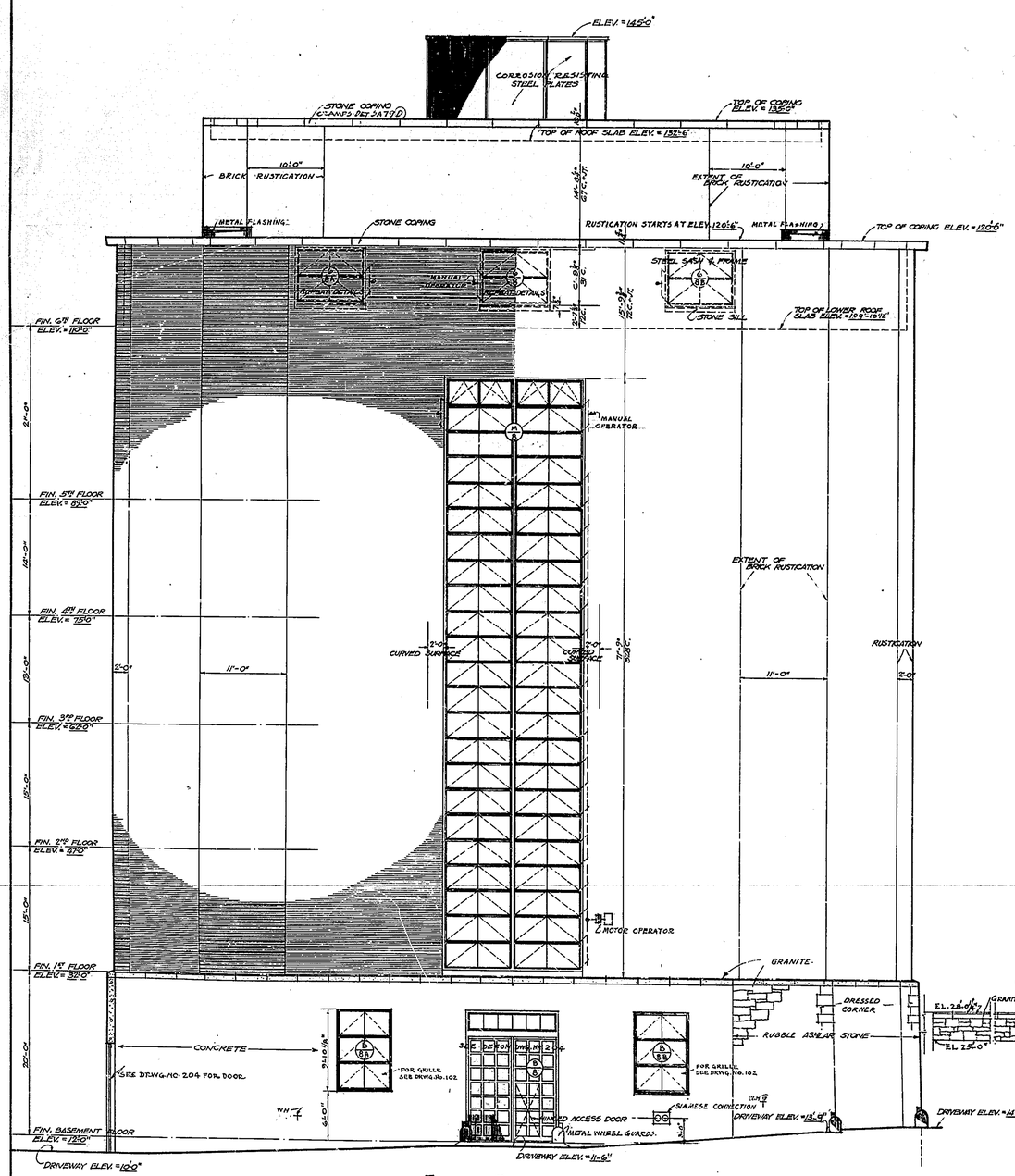
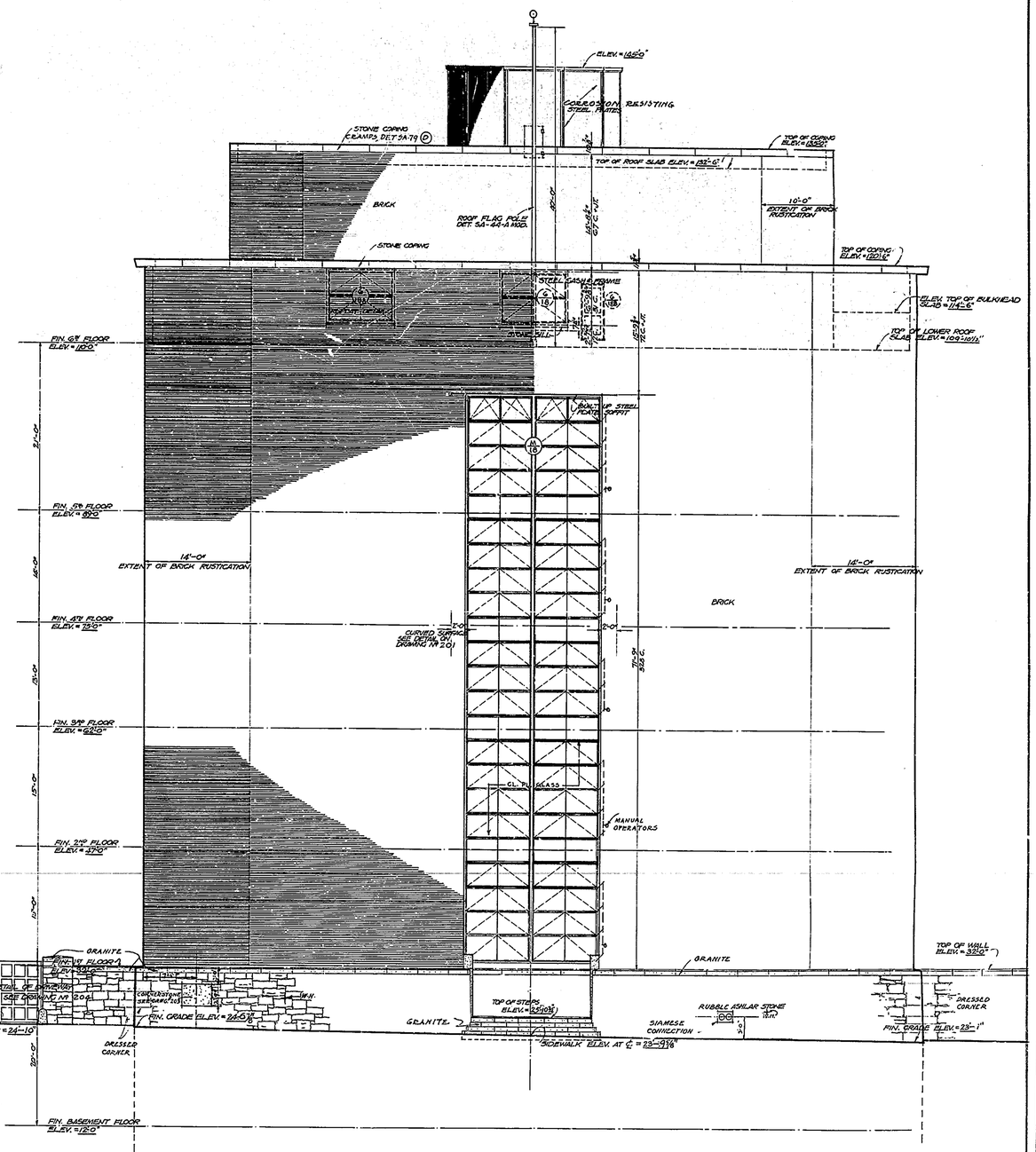
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY F.W.D. DATE
CHECKED BY N.D. DATE C.20.41
DRAWING No. 9

RETURN TO ROOM 41T



EAST ELEVATION
SCALE - 1/8" = 1'-0"



29TH STREET ELEVATION
SCALE - 1/8" = 1'-0"

WORK SHOWN IN OUTLINE TO BE GENERALLY SIMILAR TO THAT SHOWN IN FULL.

WM. DEWEY FOSTER CONSULTING ARCHITECT

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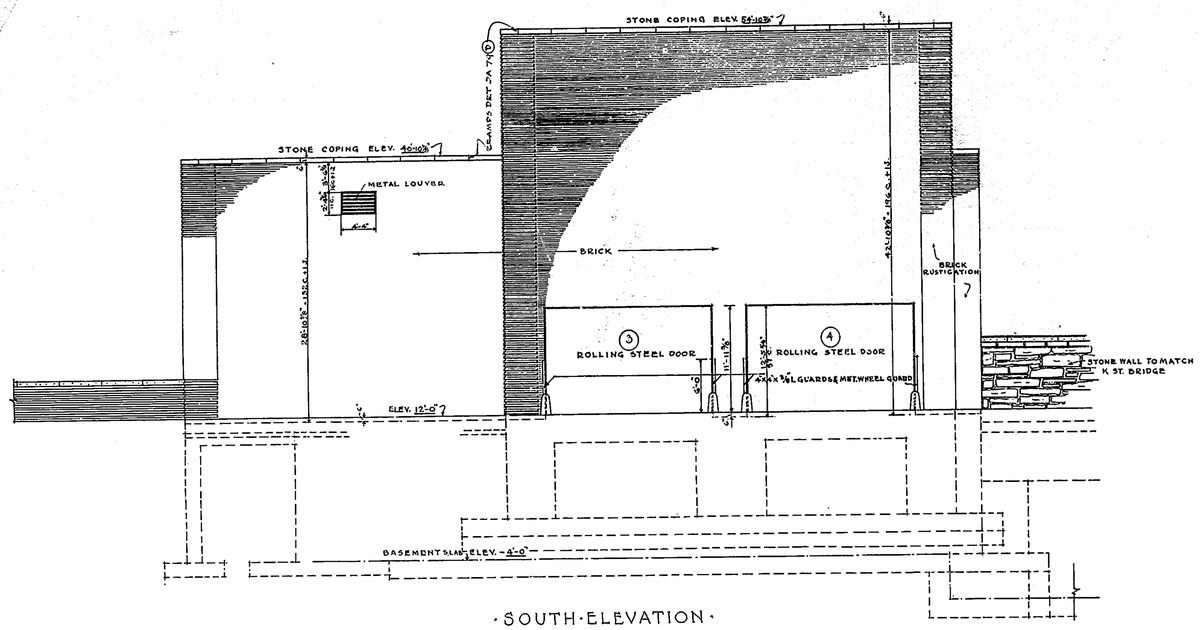
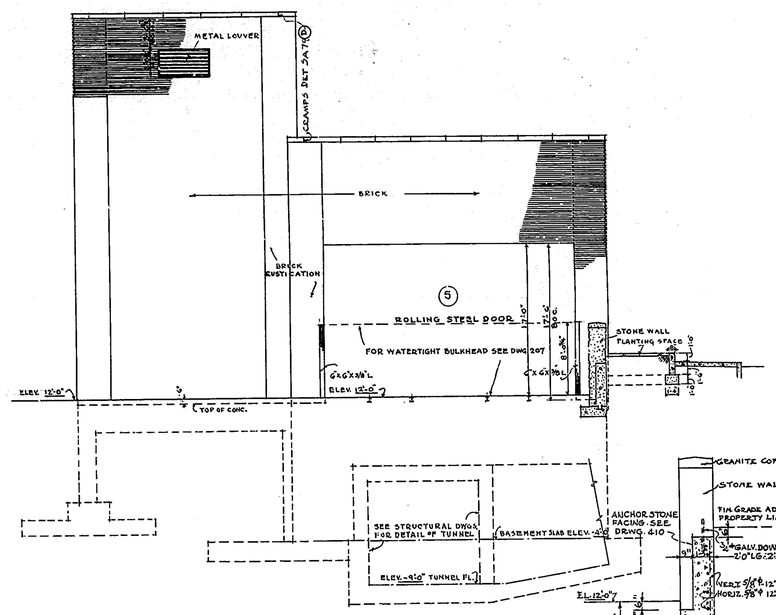
D C000277 44

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON - D.C.
DRAWN BY: DONEGHY DATE:
CHECKED BY: DATE:
DRAWING No. 100

RETURN TO ROOM 411

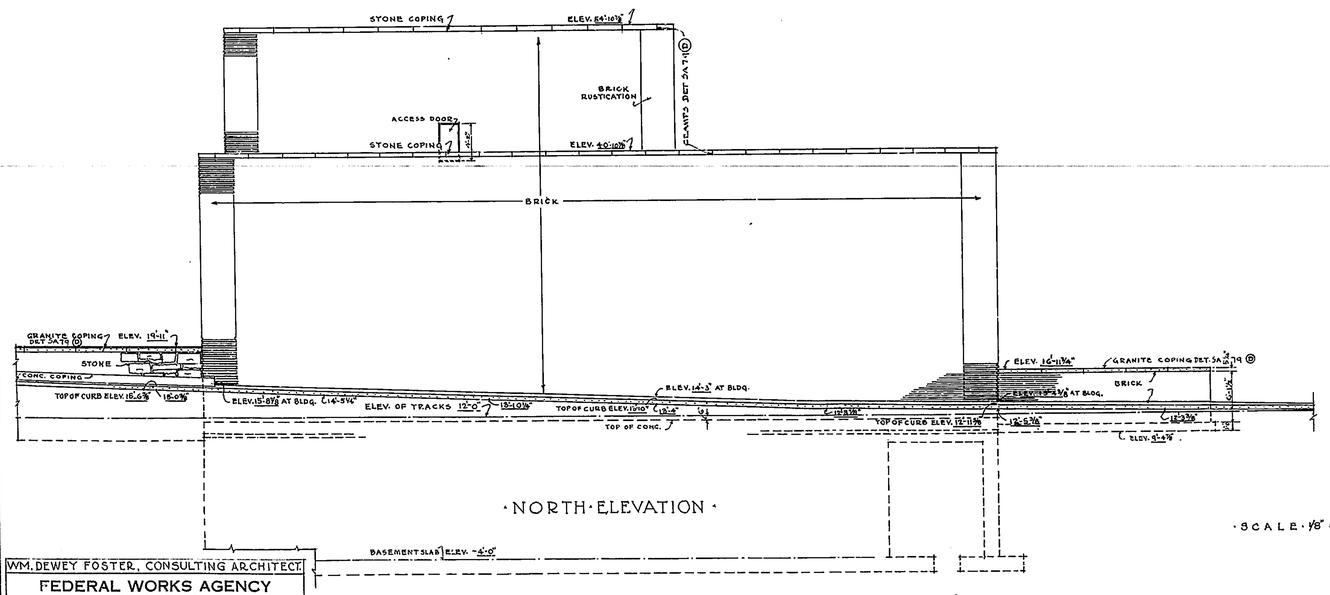


·SOUTH·ELEVATION·



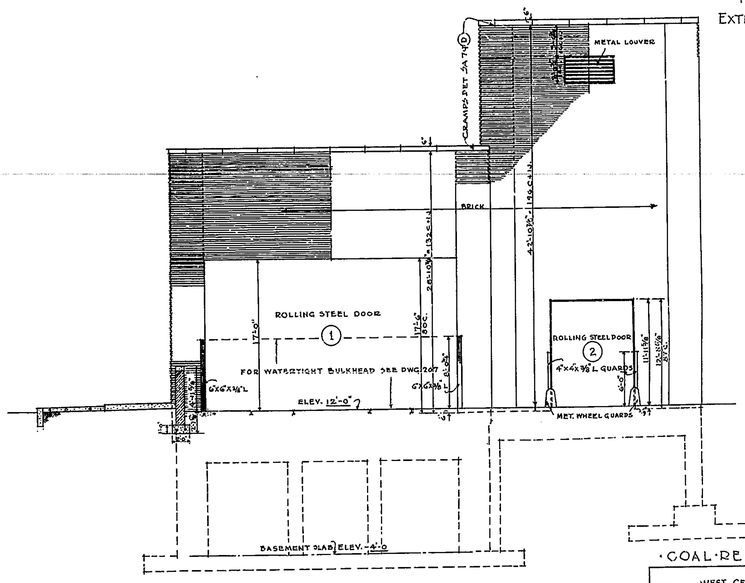
·EAST·ELEVATION·

EXTERIOR RETAINING WALL
SCALE 1/4"=1'-0"



·NORTH·ELEVATION·

·SCALE·1/8"=1'-0"·



·WEST·ELEVATION·

15

·COAL·RECEIVING·BLDG·

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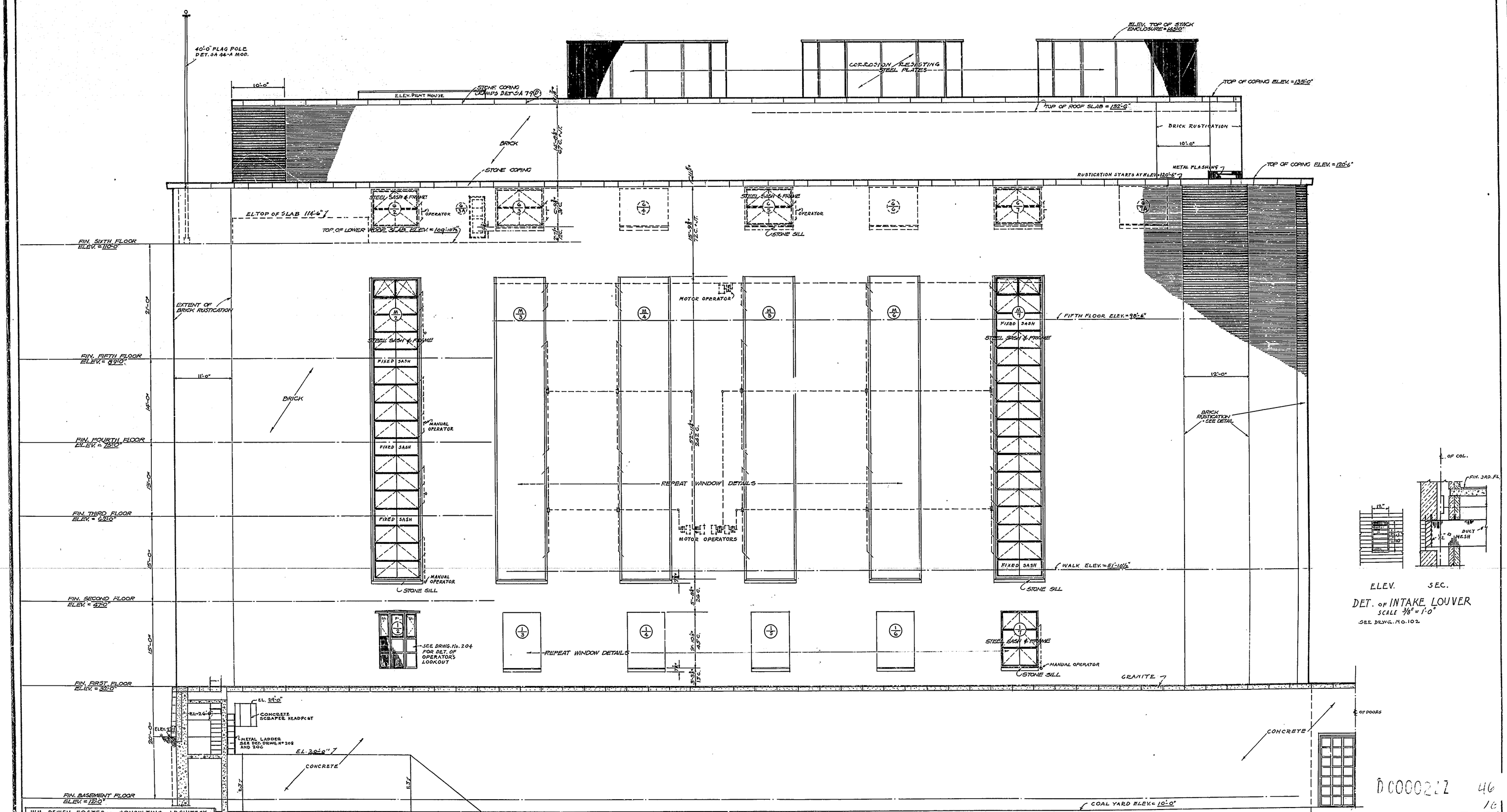
PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: HOOK DATE:
CHECKED BY: N.D. DATE: 6-20-41
DRAWING No. 100-1

45

RETURN TO ROOM 411



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T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

SOUTH ELEVATION.

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

WORK SHOWN IN OUTLINE TO BE GENERALLY SIMILAR TO THAT SHOWN IN FULL.

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON - D.C.
DRAWN BY: DONECHY DATE:
CHECKED BY: N.D. DATE: 6-20-41
DRAWING No. 101

D0000222 46 16

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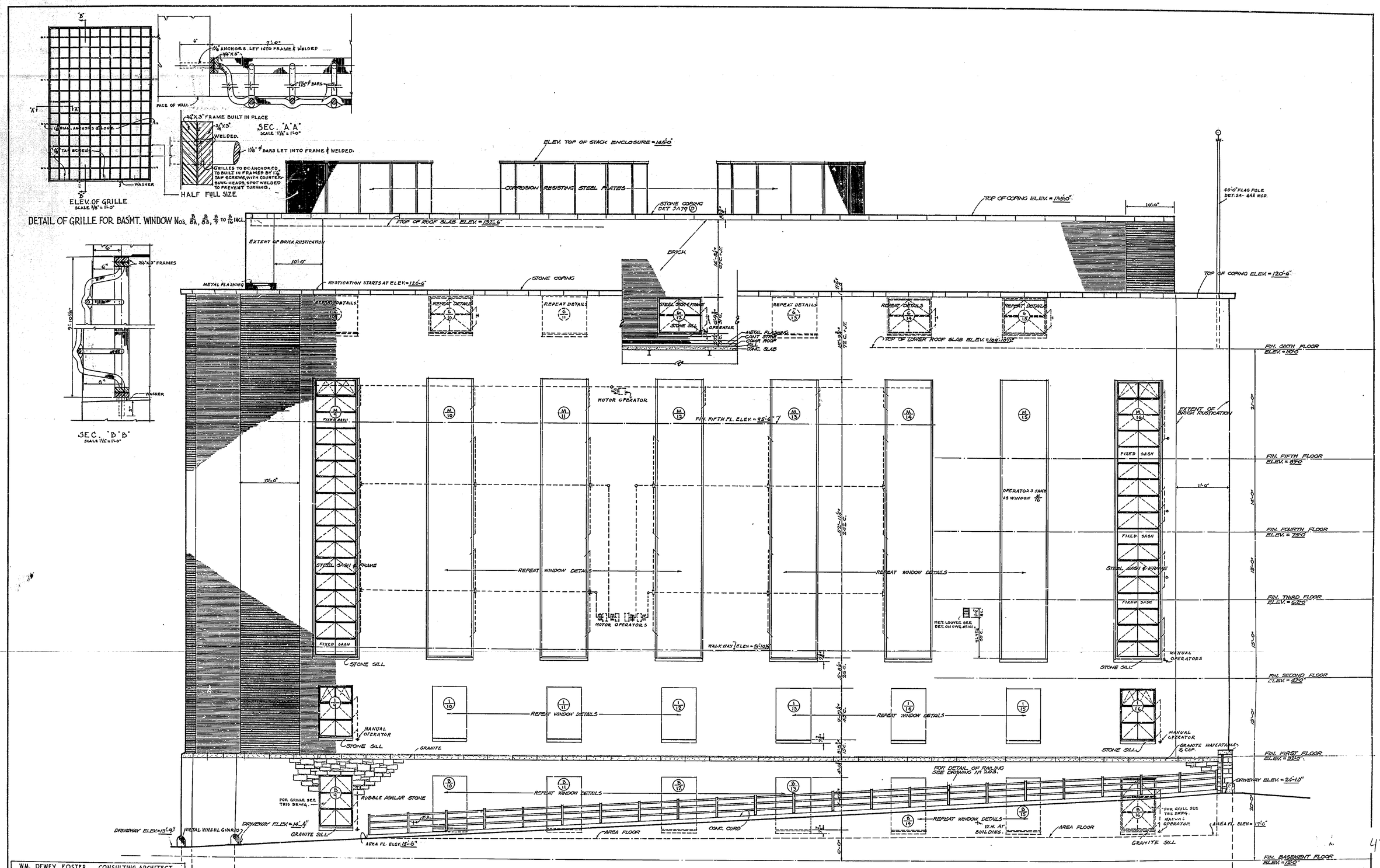
24X --



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

WORK SHOWN IN OUTLINE TO BE GENERALLY SIMILAR TO THAT SHOWN IN FULL.
PROVIDE GRILLES AT ALL BSMT. WINDOWS.

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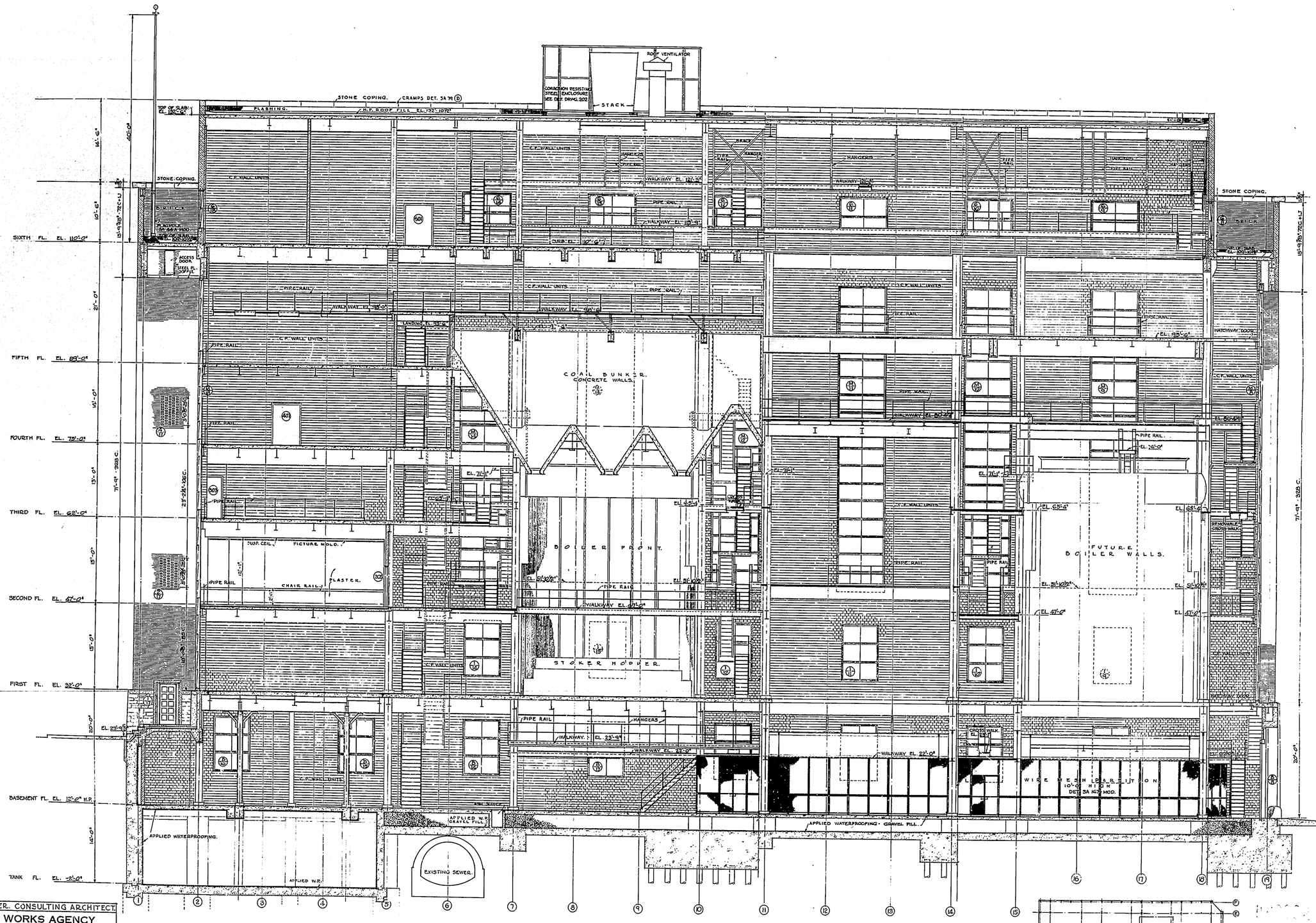
PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON • D.C.
DRAWN BY: DONEGHY DATE:
CHECKED BY: N.D. DATE: 6-20-41
DRAWING No. 102

47

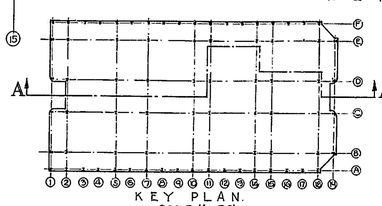
17

RETURN TO ROOM 470

24X --



SECTION A-A. SEE KEY PLAN.
SCALE 1/8" = 1'-0"



KEY PLAN.
SCALE 1" = 50'

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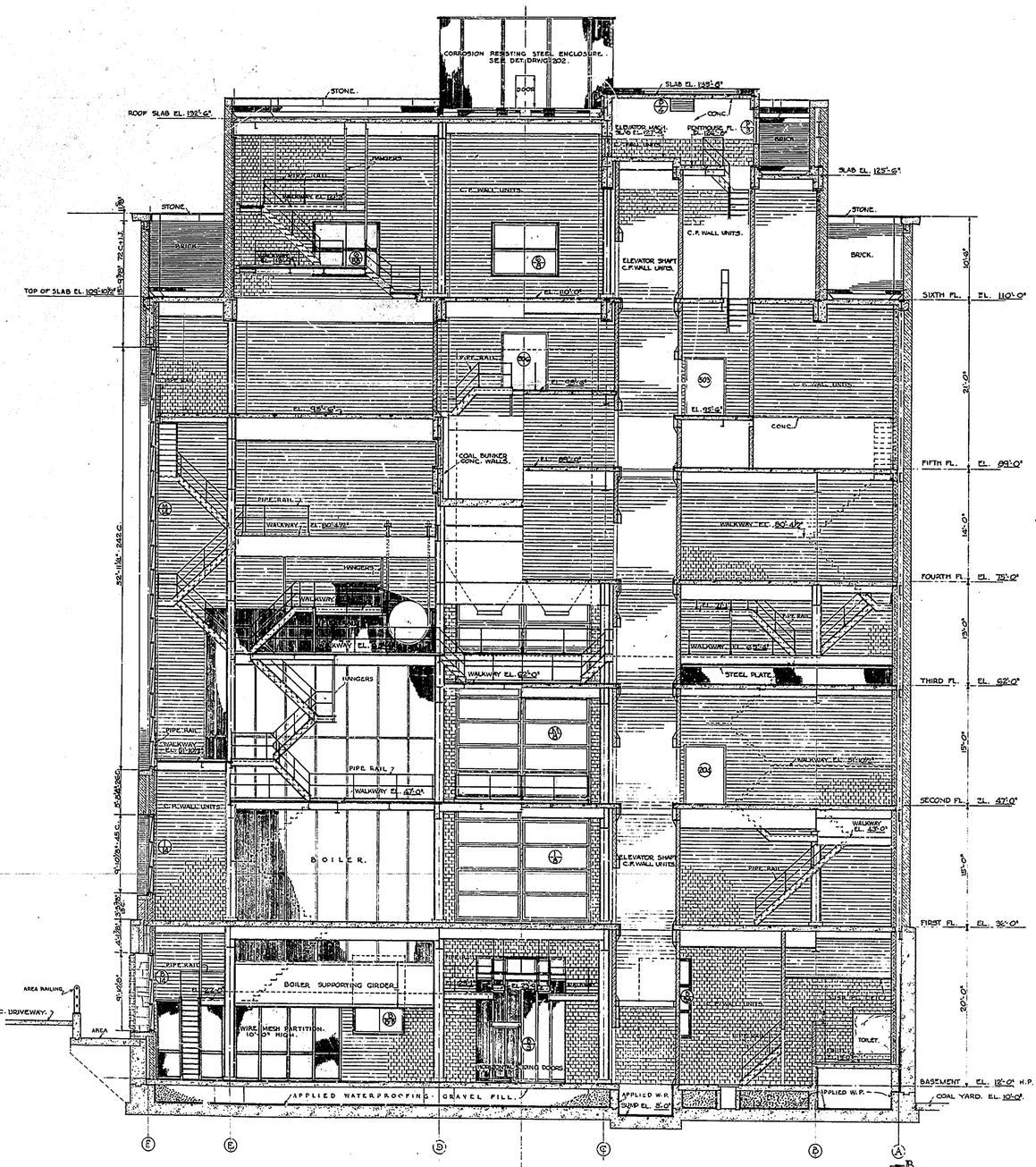
PROJECT WEST CENTRAL HEATING PLANT.
LOCATION WASHINGTON, D. C.
DRAWN BY CULLITY DATE
CHECKED BY N.D. DATE 6-20-41
DRAWING No. 103

RETURN TO ROOM 411

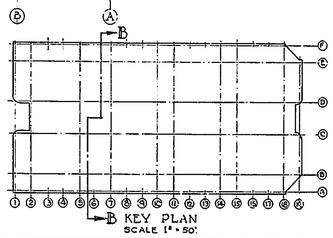
24X --



SEE KEY PLAN.

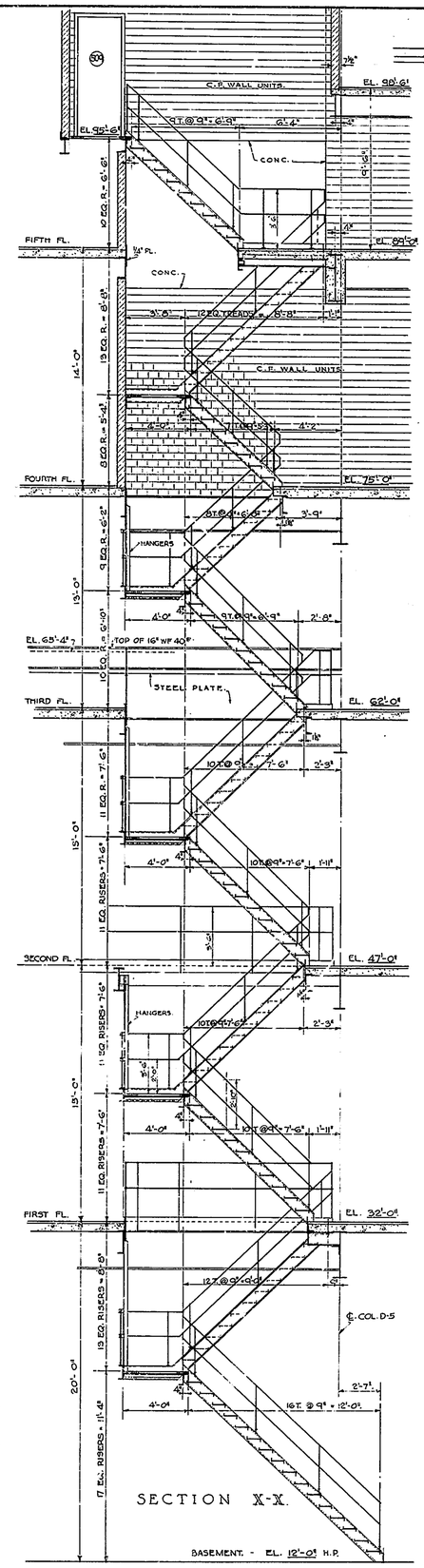
SECTION B-B

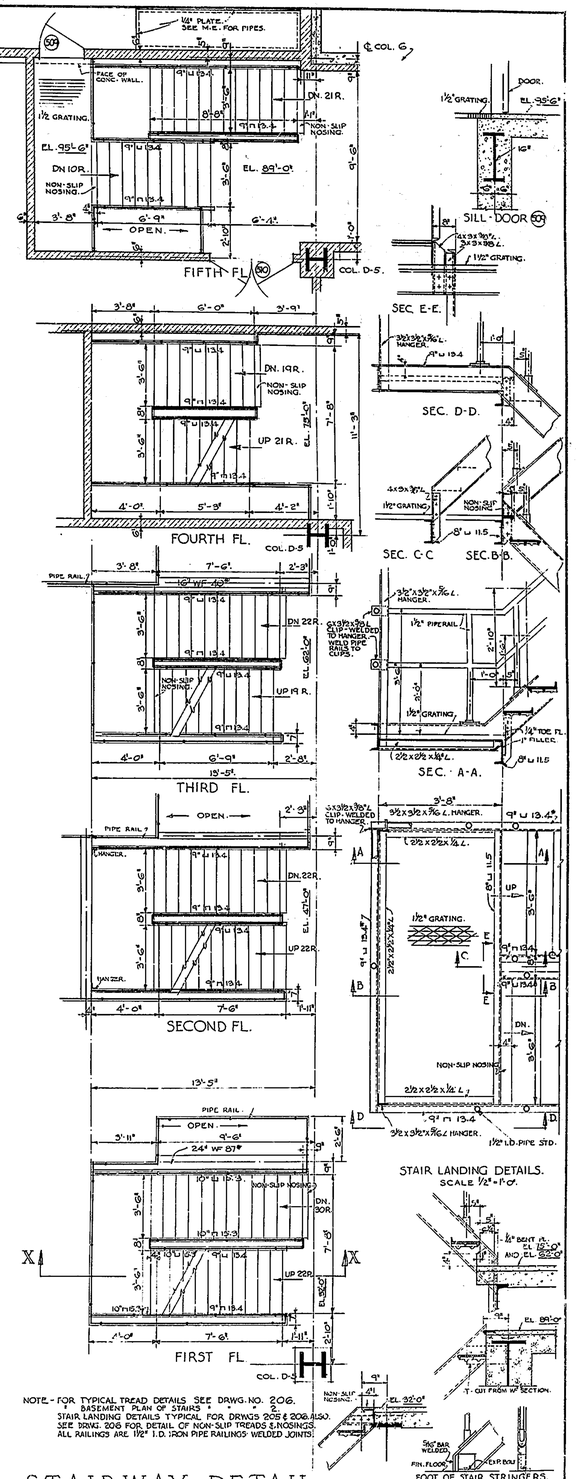
SCALE 1/8"=1'-0"



B KEY PLAN

SCALE 1" = 50'





NOTE - FOR TYPICAL TREAD DETAILS SEE DRWG. NO. 206.
BASEMENT PLAN OF STAIRS " " " 3.
STAIR LANDING DETAILS TYPICAL FOR DRWGS 205 & 208 ALSO.
SEE DRWG. 206 FOR DETAIL OF NON-SLIP TREADS & NOSINGS.
ALL RAILINGS ARE 1½" I.D. IRON PIPE RAILINGS WELDED JOINTS.

STAIRWAY DETAIL

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

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PROJECT WEST CENTRAL HEATING PLANT

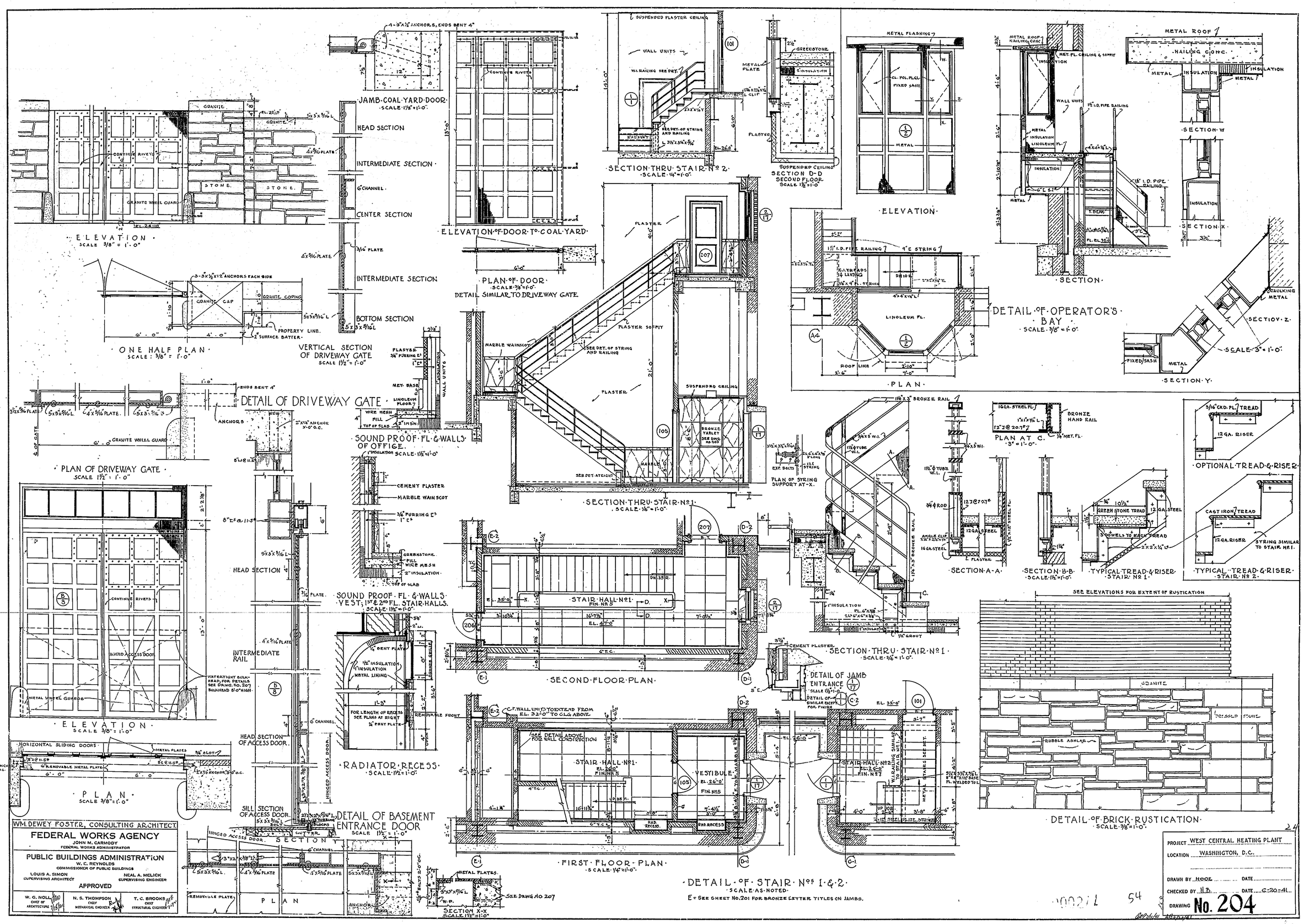
LOCATION WASHINGTON, D. C.

DRAWN BY CULLITY DATE

CHECKED BY DATE

DRAWING No. 104

RETURN TO ROOM 414


ELEVATION
SCALE 3/8" = 1'-0"
ONE HALF PLAN
SCALE : 3/8" = 1'-0"
JAMB COAL YARD DOOR
SCALE 1½" = 1'-0"
HEAD SECTION
INTERMEDIATE SECTION
CENTER SECTION
BOTTOM SECTION
VERTICAL SECTION OF DRIVEWAY GATE
SCALE 1½" = 1'-0"
ELEVATION OF DOOR TO COAL YARD
PLAN OF DOOR
SCALE 3/8" = 1'-0"
DETAIL SIMILAR TO DRIVEWAY GATE
SECTION THRU STAIR No 2
SCALE 1/4" = 1'-0"
SECTION D-D
SECOND FLOOR
SCALE 1½" = 1'-0"
ELEVATION
PLAN
DETAIL OF OPERATOR'S BAY
SCALE 3/8" = 1'-0"
SECTION
SECTION W
SECTION X
SECTION Y
SCALE 3" = 1'-0"
DETAIL OF DRIVEWAY GATE
PLAN OF DRIVEWAY GATE
SCALE 1½" = 1'-0"
SOUND PROOF FL. & WALLS OF OFFICE.
SCALE 1½" = 1'-0"
SOUND PROOF FL. & WALLS VEST; 1st & 2nd FL. STAIR HALLS.
SCALE 1½" = 1'-0"
RADIATOR RECESS
SCALE 1½" = 1'-0"
SECTION THRU STAIR No 1
SCALE 1/4" = 1'-0"
SECOND FLOOR PLAN
FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"
DETAIL OF STAIR Nos 1 & 2
SCALE AS NOTED
E = SEE SHEET No. 201 FOR BRONZE LETTER TITLES ON JAMBS.
PLAN AT C
3/4" = 1'-0"
SECTION A-A
SECTION B-B
SCALE 1½" = 1'-0"
TYPICAL TREAD & RISER STAIR No 1
TYPICAL TREAD & RISER STAIR No 2
OPTIONAL TREAD & RISER
DETAIL OF JAMB ENTRANCE
SCALE 1½" = 1'-0"
SECTION THRU STAIR No 1
SCALE 3/4" = 1'-0"
DETAIL OF BASEMENT ENTRANCE DOOR
SCALE 1½" = 1'-0"
ELEVATION
SCALE 3/8" = 1'-0"
PLAN
SCALE 3/8" = 1'-0"
SECTION
SECTION X-X
SCALE 1½" = 1'-0"
DETAIL OF BRICK RUSTICATION
SCALE 3/8" = 1'-0"
SEE ELEVATIONS FOR EXTENT OF RUSTICATION
GRANITE
DRESSED STONE
RUBBLE ASHLAR
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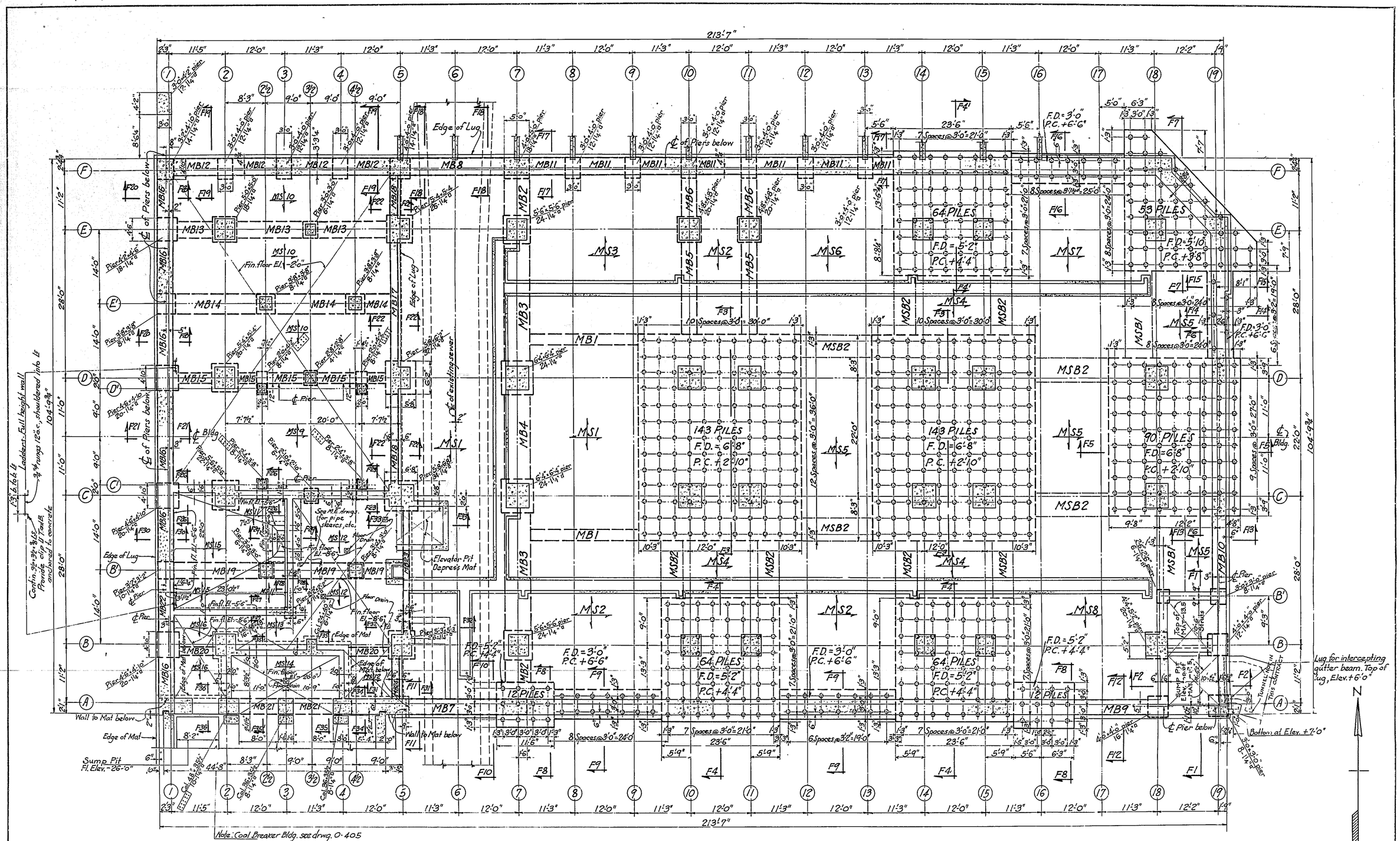
T. C. BROOKS
CHIEF STRUCTURAL ENGINEER
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY H.O.E.
DATE
CHECKED BY N.D.
DATE C.20-41
DRAWING No. 204
RETURN TO ROOM 419



FOUNDATION PLAN

Scale 1/8" = 1'-0"

NOTES -

Elevation top of Mat Slab +9'-0" unless otherwise noted.
Overall depth of Footings noted thus: F.D. = 6'-6". Pile cut off noted thus: P.C. + 4'-0"
Provide concrete piles under footings where noted on plans or shown thus ⊕. See specifications for piles.
Provide concrete piers to rock where shown or noted on plans. See plan for size, reinf. etc. See drwg. 400-4 for typ. det.
Mat slabs noted thus MS1 on plan. See drwg. 400-3 for schedule and typical detail.
Mat beams noted thus MB1 on plan. See drwg. 400-3 for schedule and typ. detail.
Size and reinf. of conc. cols. noted on plans. See drwg. 400-4 for typ. details.
Size, location, pile spacing, etc. for footings shown on plan. See Sections for reinf.
For Sect. F-1 to F-8 incl. see drwg. 400-2. For Sect. F-9 to F-19 incl. see drwg. 400-4.
For Sect. F-20 to F-33 incl. see drwg. 400-5. For Sect. F-34 to F-37 incl., misc. det. etc., see drwg. 400-6.
For detail of Ash Grinder Pit, see Sect. F38 to F-41 etc. on drwg. 400-7.

NOTES (CONT'D)

See General Note "B", drg. 410, for work required by omission of Mechanical Equipment, etc.
For Steel Col. schedule, etc. see drwg. 408.
For General Notes, typical details, etc. see drwgs. 410, 400-3 and 400-4.
Modify location, size, etc. of construction to suit mechanical equipment. See General Note "A" on drwg. 410.
Where size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members noted. For Steel stairs, gratings, pipe rails, etc. see Archt. drwgs.
For pipes thru walls, footings, etc. see ME drwgs. For detail of pipes thru W.P. walls, floors, etc. see drwg. 410.
For details, dimensions, etc. not given, see Arch. and M.E. drwgs.
HYDROSTATIC PRESSURE. All walls, mats, pits, etc. below elev. +18'-0" shall be weighted down as necessary to resist hydrostatic pressure until an adequate amount of building dead load is in place.
WATERPROOFING. Mat slabs, walls, columns, pits, etc. below elev. +26'-0" shall be waterproofed with an applied waterproofing. See details, sections and specifications.
PROTECTION OF EXISTING UTILITIES, SEWERS, ETC. Contractor shall provide adequate shoring, bracing, sheeting, etc. as necessary to protect existing utilities, sewers, etc.

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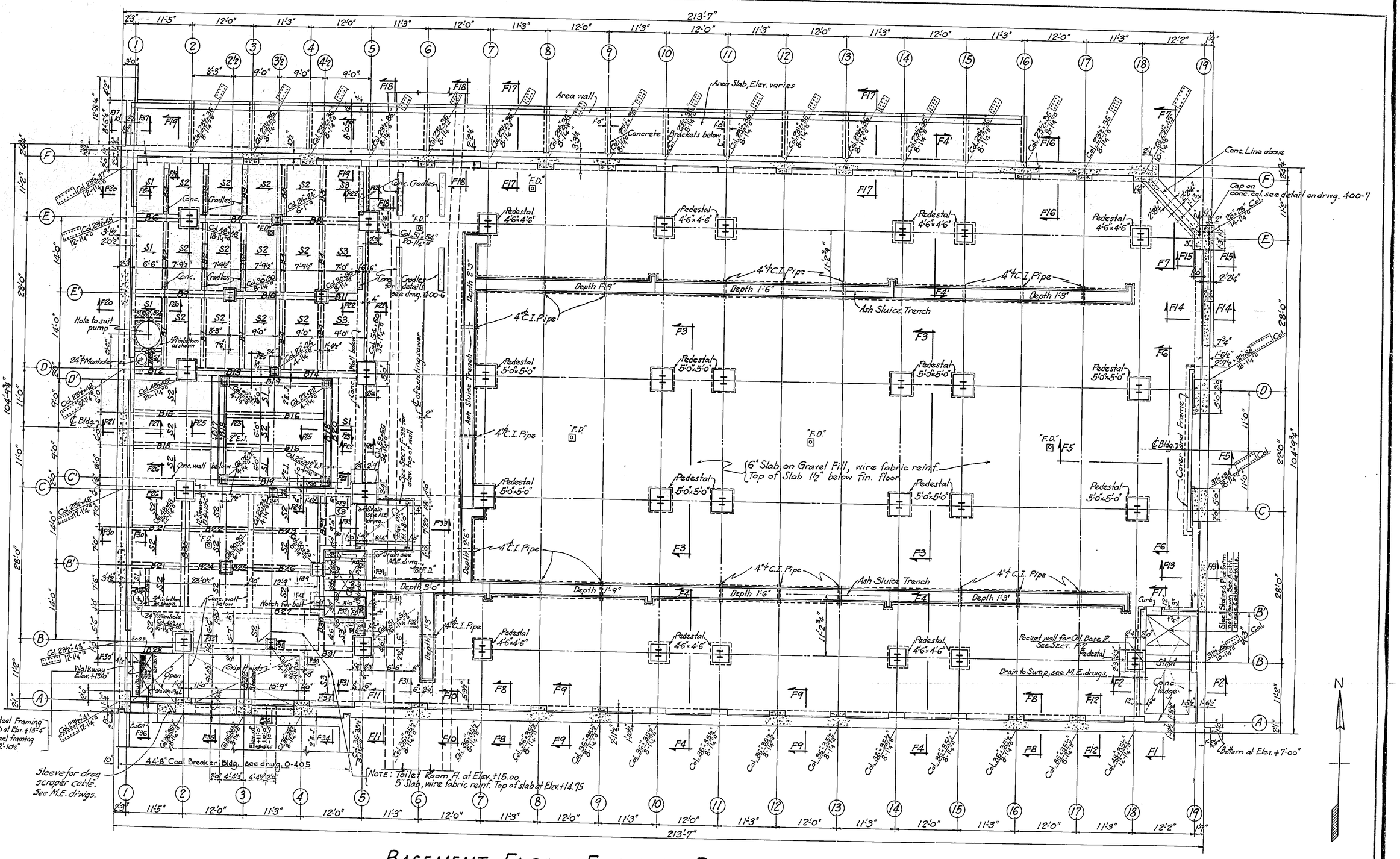
D C0C0 2 Z 10

FOUNDATION PLAN

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Dubin Degenhardt DATE 6-20-41
CHECKED BY H.M.Z. DATE 7-11-41
DRAWING No. 400

RETURN TO ROOM 411



BASEMENT FLOOR FRAMING PLAN

Scale ⅛" = 1'-0"

NOTES –

Elev. fin. bsmt. floor varies. H.P. +12'-0" See Arch. drwgs. Top of slab 1½" below fin. bsmt. floor east of Col. line 5, 2" below fin. bsmt. floor west of Col. line 5 unless otherwise noted. Slope floor to drains, noted "F.D."
For typical details of basement floor construction, see drwg. 400-3.
Slabs noted thus S1 are reinforced solid conc. slabs. For schedule and typical det. see drwg. 400-3.
Beams noted thus B1 are reinforced conc. beams. For schedule and typical det. see drwg. 400-3.
Size of conc. pedestals under steel cols. noted on plan. For reinf. and detail, see drwg. 400-4.
Size and reinf. of Conc. Cols. noted on plan. For detail, see drwg. 400-4.
For typical detail of Ash Sluice Trench, see drwg. 400-3.
Conc. bases for mechanical equipment not shown on plan. For size, location, etc. see M.E. drwgs. For typ. det. see drwg. 410.
For Sect. F-1 to F-8 incl. see drwg. 400-2. For Sect. F-9 to F-19 incl. see drwg. 400-4.
For Sect. F-20 to F-33 incl. see drwg. 400-5. For Sect. F-34 to F-37, misc. det. etc., see drwg. 400-6.

NOTES (Continued)

For detail of Ash Grinder Pit, see F38 to F41 etc. on Drwg 400-7
See General Note "B", Drwg 410, for work required by omission of Mechanical Equipment, etc.
For Steel Col. schedule, see drwg. 408. For General Notes, Typ. Det. etc, see drwgs. 410, 400-3 and 400-4.
Modify location, size, etc, of construction to suit mechanical equipment. See General Note "A" on drwg. 410.
Where size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members noted.
For Steel stairs, gratings, pipe rails, etc. see Archt. drwgs.
For pipes thru walls, floors, etc. see M.E drwgs. For det. of pipes thru W.P. walls, floors, etc. see drwg. 410.
For details, dimensions, etc. not given, see Archt. and M.E. drwgs.

WATERPROOFING – Mat slabs, walls, columns, pits, etc. below elev. +26'-0" shall be waterproofed with an applied waterproofing. See details, sections and specifications.

HYDROSTATIC PRESSURE – See note on drwg. 400 and specifications.

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W. [illegible] NOLL
CHIEF ARCHITECT

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BASEMENT FRAMING PLAN

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Dubin Degenhardt DATE 6-20-41
CHECKED BY H.M.Z. DATE 7-11-41
DRAWING No. 400-1

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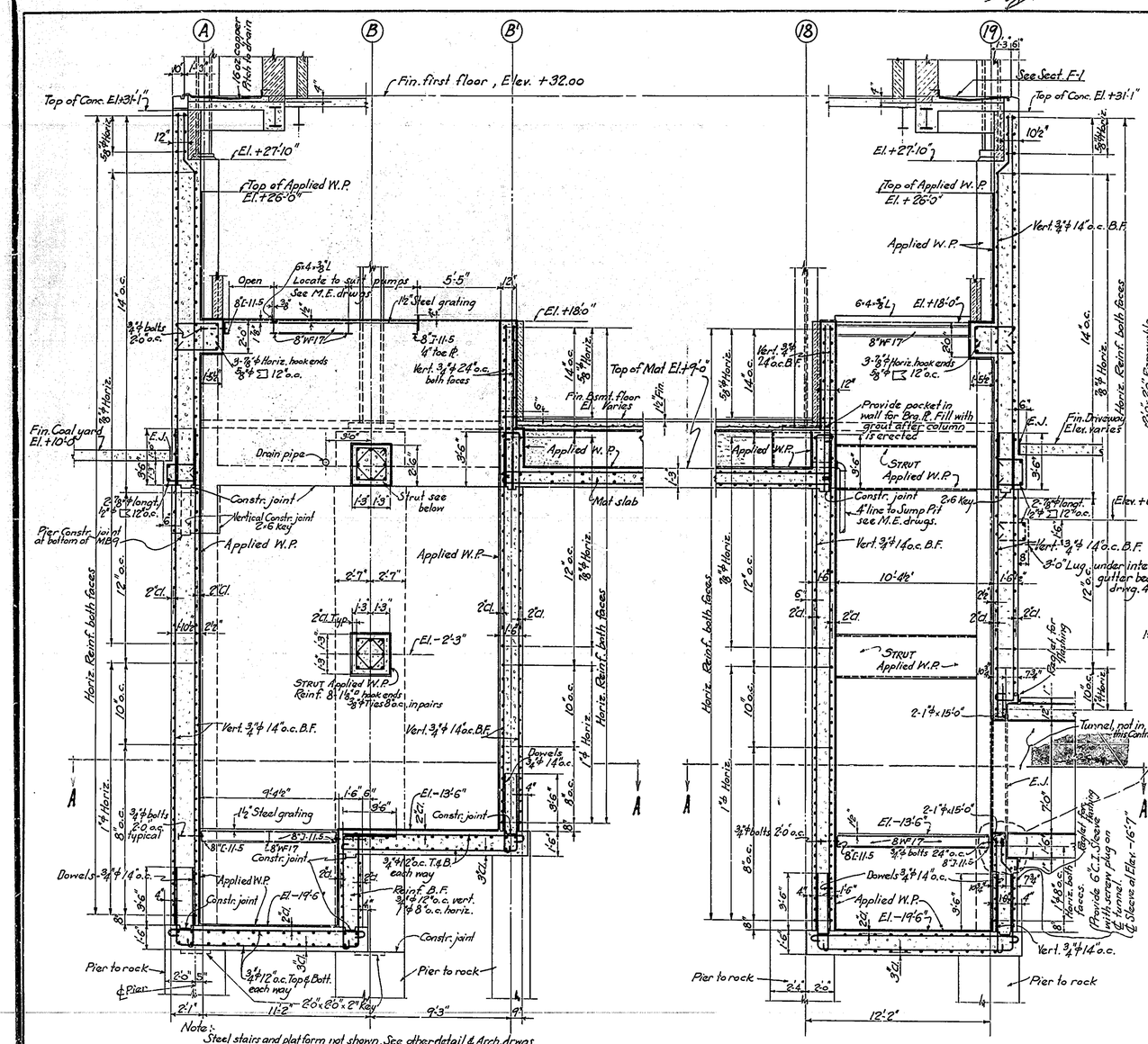
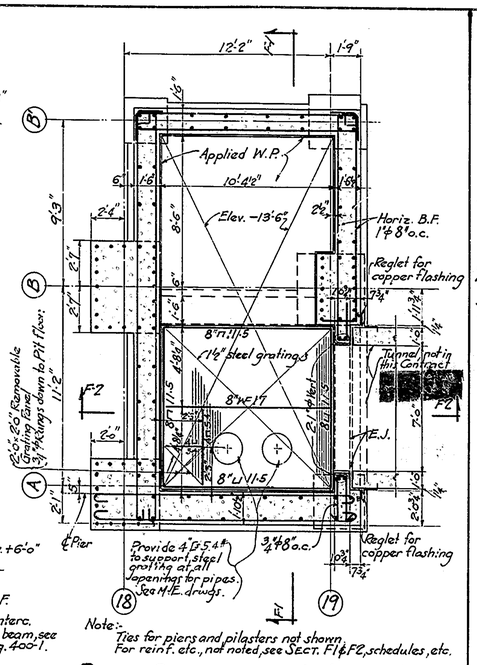


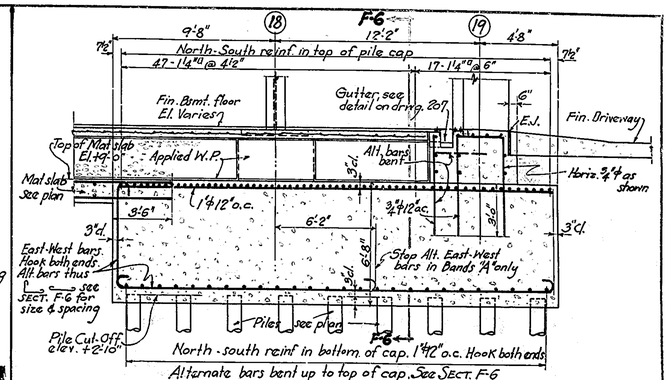
SECTION F-1 Scale: 1/4" = 1'-0"

SECTION F-2

DETAIL OF PIT TO STEAM DISTRIBUTION TUNNEL

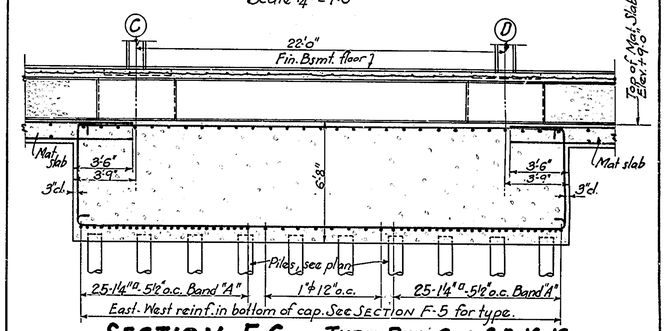


PLAN SECTION A-A Scale: 1/4" = 1'-0"



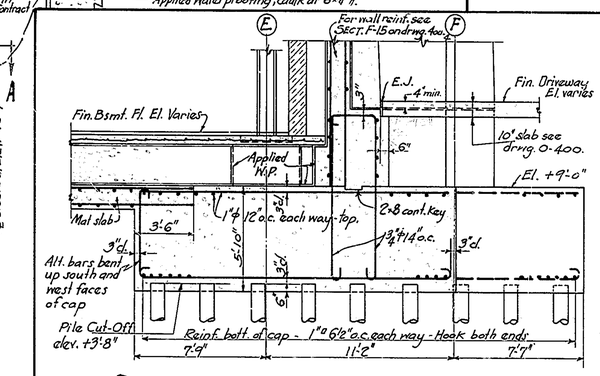
SECTION F-5 THRU PILE CAP C-D-18-19.

Scale 1/4" = 1'-0"



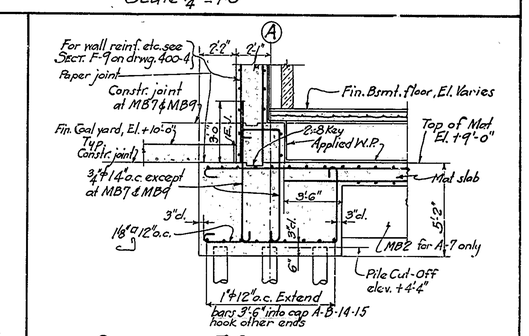
SECTION F-6 THRU PILE CAP C-D-18-19.

Scale 1/4" = 1'-0"



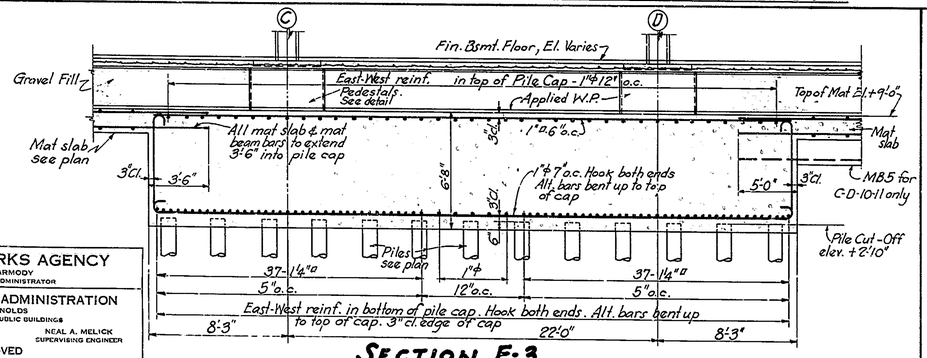
SECTION F-7 THRU PILE CAP E-F-18-19

Scale 1/4" = 1'-0"



SECTION F-8 THRU PILE CAPS A-7 & A16

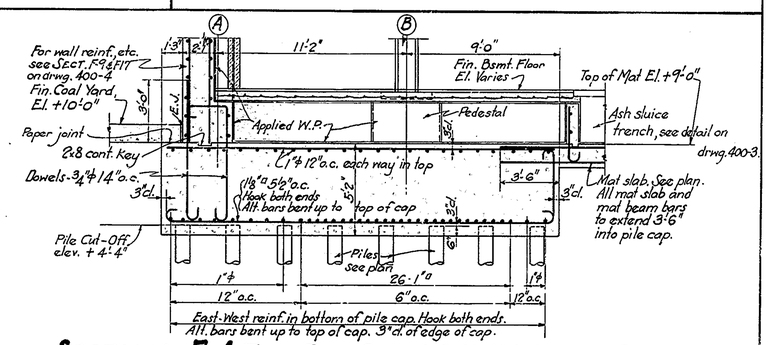
Scale 1/4" = 1'-0"



SECTION F-3

THRU PILE CAPS C-D-10-11 & C-D-14-15

Scale 1/4" = 1'-0"



SECTION F-4 THRU PILE CAPS A-B-10-11 & A-B-14-15

SECTION F-4' THRU PILE CAP E-F-14-15 SIMILAR

Scale 1/4" = 1'-0"

NOTES:

For location and extent of sections, etc. see dwgs 400 and 400-1

For Typical Details, General Notes, etc. see dwg. 410, 400-3, 400-4

For typical Foundation and Basement Floor details see dwgs 400-3

For details and dimensions, etc. not given see architectural and M.E. drawings

DOCKET 72

FOUNDATION & PIT DETAILS

PROJECT	WEST CENTRAL HEATING PLANT
LOCATION	WASHINGTON, D.C.
DRAWN BY	Dubin / Degenhardt DATE 6-20-41
CHECKED BY	H.M.Z. DATE 7-11-41
DRAWING	No. 400-2

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N. S. THOMPSON, CHIEF MECHANICAL ENGINEER
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MAT BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT Str. bottom No.	Str. bottom Size	Str. top No.	Str. top Size	STIRRUPS Size	Type	Spacing each end	REMARKS
MB1	24"	44"	9	1"□	9	1"□	½"φ	□	2",4@6",3@8",3@12"	Extend bars 5'-0" into pile cap.
MB2	60"	48"	5	1¼"□	9	1¼"□	⅝"φ	Do	2",18"o.c. thruout	MB2-MB4 incl. Top bars continuous Lap bars between supports. Stagger splices. Hook discontinuous ends.
MB3	60"	48"	9	1¼"□	9	1¼"□	⅝"φ	Do	2",6@4",4@6",6@8"	
MB4	60"	48"	5	1¼"□	9	1¼"□	⅝"φ	Do	2",18"o.c. thruout	
MB5	36"	36"	6	1⅛"□	6	1⅛"□	⅝"φ	□	2",6@4",3@8",2@12"	Extend bars 5'-0" into pile cap.
MB6	36"	36"	3	1"□	6	1⅛"□	⅝"φ	□	2",8"o.c. thruout	
MB7	35½	46½"	12	1¼"□×39'-0" (2 layers)	8	1¼"□×39'-0" (2 layers)	¾"φ	⊔	12@4",4@6",6@8"	Provide 8-1¼"□×16'0" addl. top bars each end centered on Lines 5 and 7. First stirrup 1'-8" from Line 5 and 7. Provide 2-1"φ horiz. addl. bars each face. See Sect. F10, F11 etc., on drwg. 400-4.
MB8	39¼"	46½"	Reinf., stirrups, etc. same as MB7							
MB9	35½"	48"	12	1¼"□ (2 layers)	12	1¼"□ (2 layers)	¾"φ	⊔	6@4",4@6",8"o.c. remainder	Top bars to extend 8'-0", bottom bars 4'-6" beyond ends of beams where possible or else ends shall be hooked. Provide 2-1"φ horiz. addl. bars each face. See Sect. F12, drwg. 400-4.
MB10	31½"	48"	8	1¼"□	8	1¼"□	¾"φ	⊔	2",4@6",12"o.c.	Reinf. to extend 4'0" beyond ends of beam where possible Hook ends. Provide 2-1"φ horiz. addl. bars each face. See Sect. F13, on drwg. 400-4
MB11	39¼"	30"	5	1"φ	5	1"φ	¾"φ	⊔	12"o.c. thruout	Extend stirrups into wall above. See Sect. F17, on drwg. 400-4.
MB12	39¼"	25"	4	1¼"□	4	1¼"□	¾"φ	⊔	2"; 6" o.c.	Extend Stirrups 3'-0" into wall above.
MB13	36"	25"	4	1¼"□	4	1¼"□	⅝"φ	□	2"; 10" o.c.	
MB14	44"	42"	8	1¼"□	8	1¼"□	¾"φ	□	2"; 12" o.c.	
MB15	24"	36"	3	1"□	3	1"□	⅝"φ	□	2"; 8" o.c.	
MB16	37½"	28"	4	1¼"□	4	1¼"□	¾"φ	⊔	2"; 6" o.c.	Extend Stirrups 3'-0" into Wall above.
MB17	18"	42"	4	1"□	4	1"□	⅞"φ	⊔	2"; 12" o.c.	Do.
MB18	18"	24"	4	1"□	4	1"□	⅞"φ	⊔	2"; 12" o.c.	Do.
MB19	36"	42"	5	1¼"□	5	1¼"□	⅝"φ	□	2"; 12" o.c.	Depth varies adjacent to Col. B'2½ See section F28, on drwg. 400-5.
MB20	24"	46"	4	1"□	4	1"□	⅝"φ	□	2"; 8" o.c.	
MB21	35½	44"	7	1"□	7	1"□	⅝"φ	□	2"; 8" o.c.	
MB22	37½"	Varies 28" Min.	4	1¼"□	4	1¼"□	¾"φ	⊔	2"; 6" o.c.	Extend Stirrups 3'-0" into Wall above. Depth varies. See Section F-30.
MB23	18"	42"	4	1¼"□	4	1¼"□	⅞"φ	⊔	2"; 12" o.c.	Extend Stirrups 3'-0" into Wall above.
MB24	18"	30"	4	1"□	4	1"□	⅞"φ	⊔	2"; 12" o.c.	Do.
MSB1		15	16	1"φ 4½"o.c.	16	1"φ 4½"o.c.				Beam strip reinf. is in lieu of mat reinf. Transverse mat reinf. to extend thru beam strips.
MSB2		15	12	1"φ 4½"o.c.	12	1"φ 4½"o.c.				Do.

MAT SLAB SCHEDULE

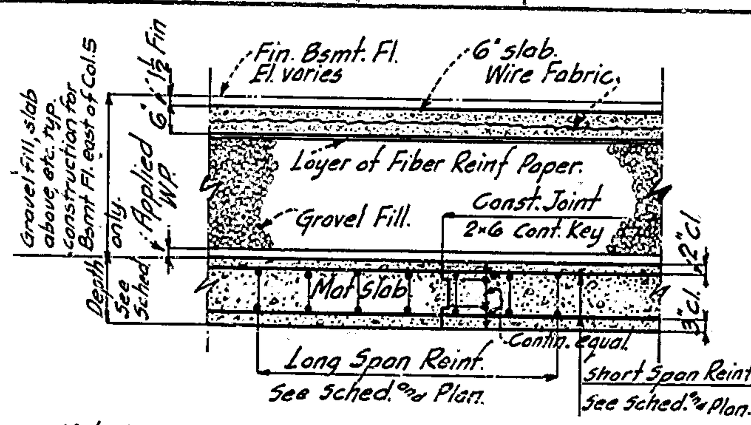
MARK	DEPTH	REINF. TOP & BOTTOM North & South	East & West	REMARKS
MS1	18"	1"φ-12"o.c.	1"□-8"o.c.	Extend N & S top bars 7'-6" beyond ℄ of MB1
MS2	15"	1"φ-12"o.c.	1"φ-8"o.c.	
MS3	15"	1⅛"□-12"o.c.	1"φ-8"o.c.	
MS4	15"	1"φ-12"o.c.	1"φ-24"o.c.	
MS5	15"	1"φ-24"o.c.	1"φ-12"o.c.	
MS6	15"	1"□-12"o.c.	1"φ-8"o.c.	
MS7	15"	1"φ-12"o.c.	1"□-8"o.c.	
MS8	15"	1"□-12"o.c.	1"□-8"o.c.	
MS9	16"	1"□ 6½"o.c.	1"φ 24"o.c.	Extend top N & S bars 6'-0" beyond Line D.
MS10	16"	1"□ 13"o.c.	1"φ 24"o.c.	
MS11	18	1"□ 10"o.c.	1"φ 24"o.c.	Bott. bars N+S bent up into Wall at Line C. See Sect. F26. E+W bars to extend 2'6" into MS15
MS12	18"	1"□ 10"o.c.	1"φ 12"o.c.	Bott. bars N+S bent up into Wall at Line C. See Sect. F-23. Additional E.W. Bars at Line 5 see Sect. F-31
MS13	18	1"φ 12"o.c.	1"φ 24"o.c.	E+W bars to extend 2'6" into MS12 & MS16
MS14	24"	1"φ 12"o.c. Top 1"□ 6"o.c. Bott.	1"φ 12"o.c.	Bott. bars bent up 3'6" into O.F. of skip hoist walls.
MS15	18"	1"□ 10"o.c.	1"□-6"o.c. Top. 1⅛"□-6"o.c. Bott.	Bott. bars E+W bent up into Wall at Line 1. See sect. F-30, on drwg. 400-5.
MS16	18"	1"φ 12"o.c.	1"□-6"o.c. Top. 1⅛"□-6"o.c. Bott.	Do.

CONCRETE SLAB SCHEDULE

MARK	DEPTH	REINFORCEMENT	REMARKS
S1	6"	½"φ 10"o.c. top & bottom	
S2	6"	½"φ 7"o.c. alt. bent	
S3	6"	½"φ 7"o.c. alt. bent	½"φ 14"o.c. top at discont. ends

CONCRETE BEAM SCHEDULE

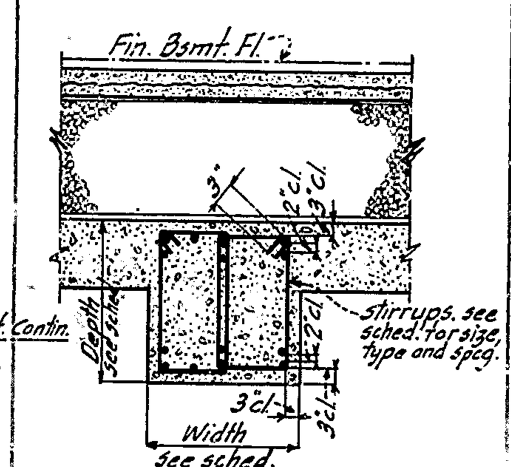
MARK	WIDTH	DEPTH	REINFORCEMENT Str. bars No.	Str. bars Size	Bent bars No.	Bent bars Size	STIRRUPS Size	Type	Spacing each end	REMARKS
B1	16"	26"	2	1"φ	2	1"□	⅜"φ	⊔	2",4@6",3@8"	Typical
B2	16"	26"	2	1⅛"□	2	1"□	½"φ	⊔	2",12@4",3@8"	do
B3	16"	26"	2- / 2-	1"□ Str. top / 1¼"□ Str. bottom			½"φ	⊔	2",6@4",4@6"	do
B4	14"	20"	2	⅞"φ	2	1"φ	⅜"φ	⊔	2",6@4",4@6",3@8"	do
B5	14"	20"	2 / 2	⅞"φ Str. top / 1"φ Str. bottom			⅜"φ	⊔	2",4@6"	do
B6	20"	38"	3 / 3	1"φ Str. top / 1"φ Str. bottom			½"φ	⊔	2",6"o.c. thruout	5-1"□ "A" bars East end
B7	24"	42"	4 / 5	1"□ Str. top / 1"□ Str. bottom			½"φ	⊔	2",8"o.c. thruout	6-1"□ "A" bars East end
B8	20"	38"	4 / 3	1⅛"□ Str. top / 1"□ Str. bottom			½"φ	⊔	2",12"o.c. thruout	6-1"□ "A" bars East end
B9	24"	40"	6 / 6	1"□ Str. top / 1"□ Str. bottom			½"φ	⊔	2",9@8"	6-1⅛"□ "A" bars East end
B10	24"	40"	5 / 4	1"□ Str. top / 1"□ Str. bottom			½"φ	⊔	2",6@4"	4-1"φ "A" bars East end
B11	24"	40"	4 / 4	⅞"φ Str. top / ⅞"φ Str. bottom			½"φ	⊔	2",2@6"	Typical
B12	16"	36"	3 / 3	¾"φ Str. top / ¾"φ Str. bottom			⅜"φ	⊔	2",3@8"	4-1⅛"□ "A" bars East end
B13	16"	36"	4 / 4	1"φ Str. top / 1"φ Str. bottom			½"φ	⊔ or ⊔	2",6@4",3@8"	4-1"φ "A" bars East end
B14	16"	36"	3 / 3	1"φ Str. top / 1"φ Str. bottom			⅜"φ	⊔ or ⊔	2",4@6",3@8"	4-1"φ "A" bars East end
B15	14"	22"	2	1"φ	2	1"□	⅜"φ	⊔	2",6@4",4@6",2@12"	2-1"φ top bars addl. each end
B16	16"	24"	2	1¼"□	2	1¼"□	⅜"φ	⊔	2",6@4",3@8",2@12"	Typical
B17	16"	24"	2	1¼"□	2	1¼"□	⅜"φ	⊔	2",10@8"	do
B18	16"	30"	4 / 4	⅞"φ Str. top / 1"φ Str. bottom			⅜"φ	⊔	2",9@8"	4-1"φ "A" bars each end
B19	16"	24"	3	¾"φ Str. bottom			⅜"φ	⊔	2",3@8"	3-¾"φ top each end to ⅓ span 3-⅞"φ "A" bars each end
B20	12"	18"	2	1"□	2	1"□	⅜"φ	⊔	2",3@8"	Typical
B21	14"	20"	2	⅝"φ	2	⅞"φ	⅜"φ	⊔	2",3@8"	do
B22	14"	20"	2	¾"φ	2	⅞"φ	⅜"φ	⊔	2",6@6"	do
B23	14"	20"	2	⅞"φ	2	1"φ	⅜"φ	⊔	2",6@4",3@8"	do
B24	14"	22"	2 / 2	⅞"φ Str. top / ⅝"φ Str. bottom			⅜"φ	⊔	2",2@6"	2-⅞"φ "A" bars East end
B25	14"	22"	2 / 2	⅞"φ Str. top / ⅝"φ Str. bottom			-	-	-	
B26	14"	22"	2 / 3	⅞"φ Str. top / ⅞"φ Str. bottom			⅜"φ	⊔	2",6@6"	Extend top bars thru B25. 4-⅞"φ "A" bars East end
B27	16"	28"	2	1"φ	3	1"□	½"φ	⊔	2",3@4",3@6",3@8",2@12"	2-1"φ top bars add'l. West end.
B28	14"	22"	2 / 2	⅞"φ Str. top / ⅞"φ Str. bottom			⅜"φ	⊔	2",3@8",12"o.c.	2-⅞"φ "A" bars East end. Extend stirrups 10" into curb above beam
B29			See Detail - drg. 400-7							
B30			See Detail - drg. 400-7							
B31	12"	36"	2 / 2	1"φ Str. top / 1"φ Str. bottom			⅜"φ	⊔	2",6@8"	Typical
B32	18"	18"	2 / 2	¾"φ Str. top / ¾"φ Str. bottom			⅜"φ	□	2",12"o.c.	
B33	8"	12"	2 / 2	⅝"φ Str. top / ⅝"φ Str. bottom			-	-	-	
B34	10"	14"	2 / 2	⅝"φ Str. top / ⅝"φ Str. bottom			⅜"φ	⊔ or ⊔	2",4@6"	
B35	16"	36"	4	1"□ Str. bottom			⅜"φ	⊔	2",14@6"	4-1¼"□ top each end 4-1¼"□ "A" bars North end



Mat slab shall be poured monolithic with pile caps and mat beams. Construction joints may be provided only at lines midway between edges of pile caps or mat beams. Reinf. shall extend 3'-6" into pile caps, 2'-6" beyond ℄ of other supports or 3" clear of exterior edge of Mat slab. Hook bars at exterior edges of slab and other discontinuous ends. Reinf. continuous unless noted.

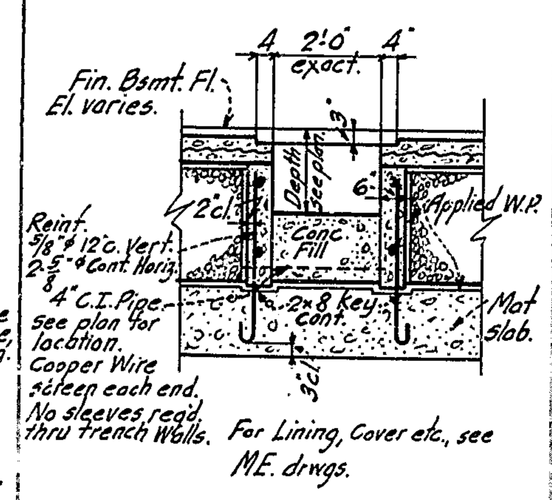
TYPICAL DETAIL OF MAT SLAB AND BASEMENT FLOOR

CONSTRUCTION EAST OF COLUMN LINE 5.

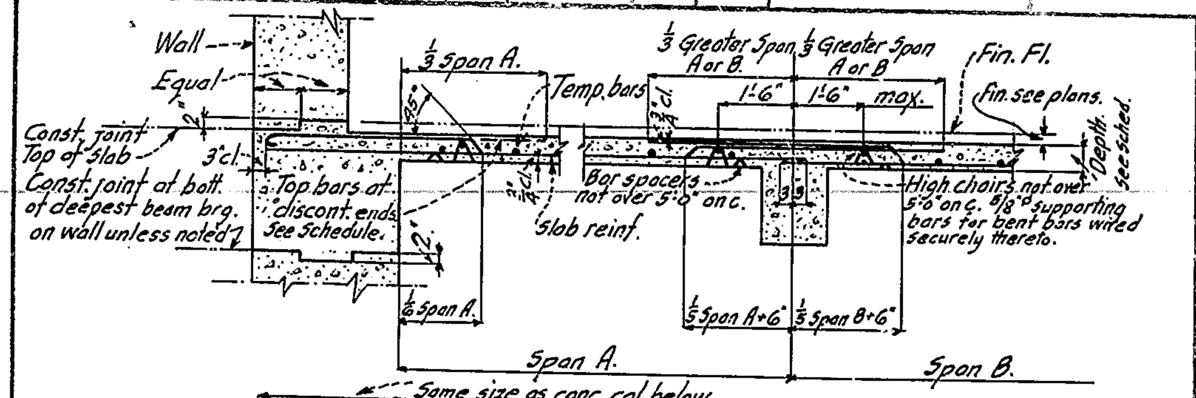


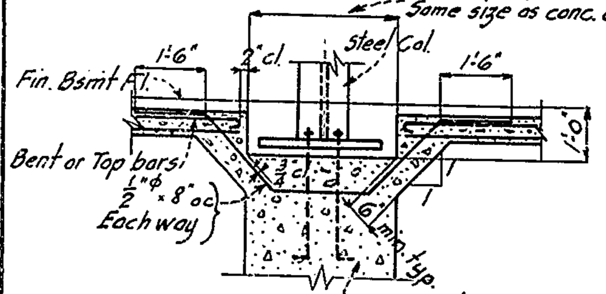
See sched. for reinf. Bott. bars shall extend 1'-6" beyond ℄ of support, top bars shall extend 5'-0" beyond ℄ of support where possible. Hook discontinuous ends of all bars. Beam strips marked MSB1 etc. shall have reinf. placed at same elev. as mat slab reinf. Mat beams shall be poured monolithic with pile cap and mat.

TYPICAL DETAILS OF MAT BEAMS.



TYPICAL DETAILS OF ASH SLUICE TRENCH.





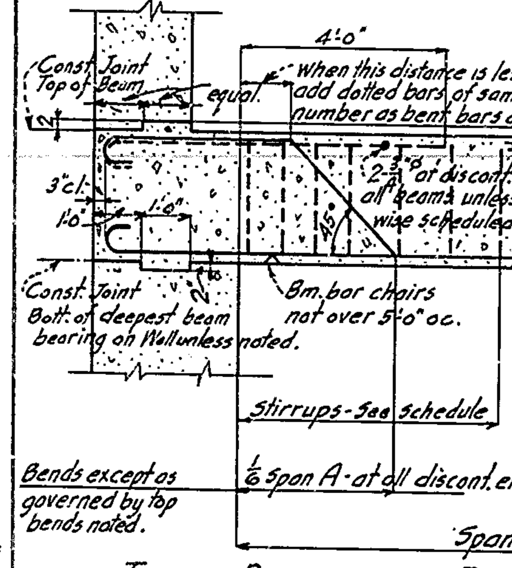
DETAIL AT INTERIOR COLUMN.

Notes:

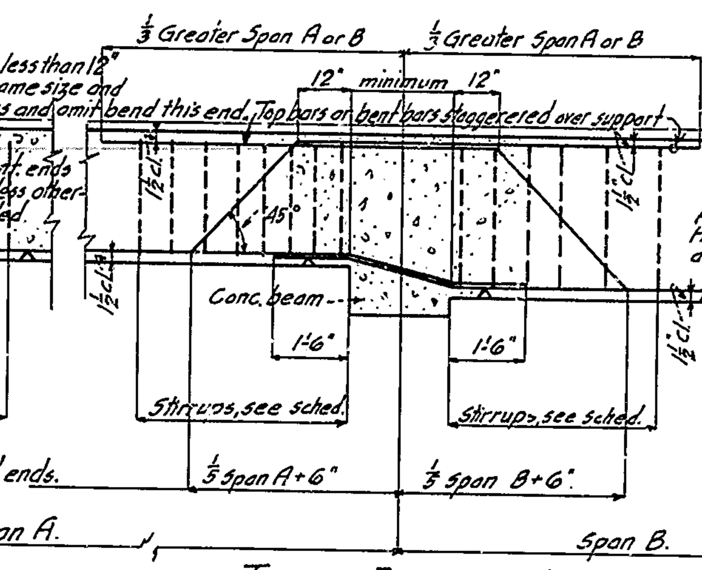
Slab reinf. alt. straight and bent bars unless otherwise noted in schedule. Bent bars shall be staggered at support with bent bars from adjacent span. At non-continuous ends of slabs, bent or top bars shall extend 40 diamters beyond ℄ of support where possible or else ends shall be hooked.
Straight top bar shall extend beyond supports same as typical bent bars.

Where the main slab reinf. is parallel to a beam or wall below, provide ½"φ 12" oc top bars over beam or wall, extending into the slab 3'-0".
Hook discontinuous ends of additional bars. Temp. bars ½"φ - 18" oc., Cont., lap splices 1'-6".

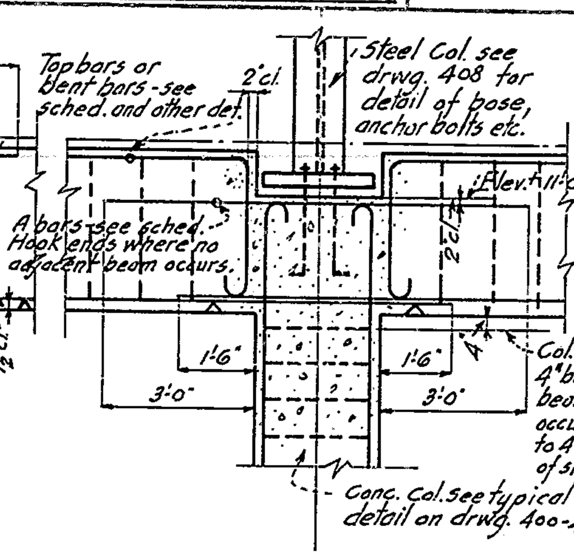
TYPICAL DETAIL OF SOLID CONCRETE SLABS.



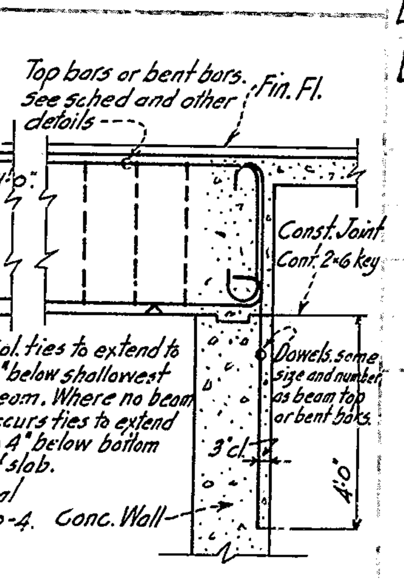
TYPICAL DISCONTINUOUS END.



TYPICAL INTERIOR SUPPORT.

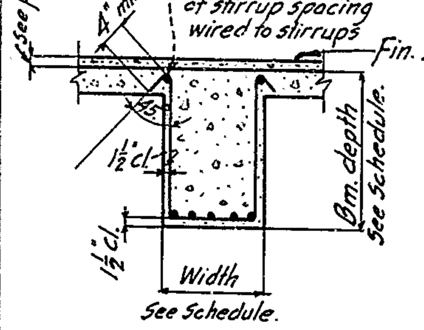


TYPICAL END AT INTERIOR COLUMN

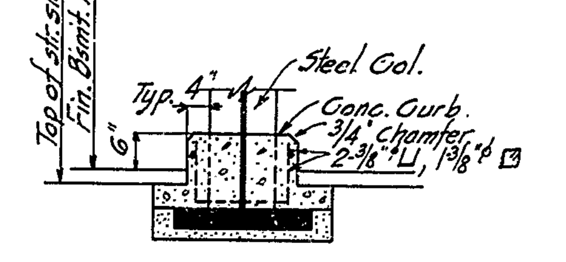


DISCONTINUOUS END WALL BELOW ONLY.

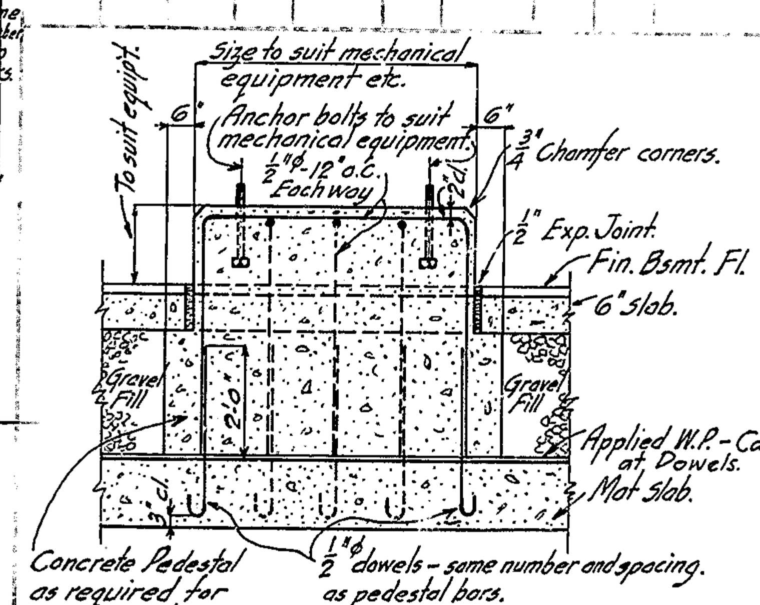
TYPICAL DETAILS OF CONCRETE BEAMS, etc.



TYPICAL SECTION.



TYPICAL DETAIL CONC. CURB AT INTERIOR COLS. B'SMT. FLOOR.



TYPICAL BASE DETAILS. FOR MECHANICAL EQUIPMENT.

NOTE:-

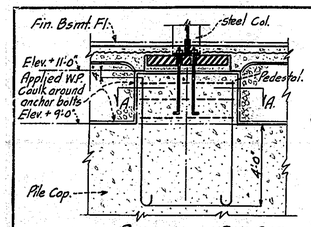
For location of conc. bms. and conc. slabs - see Dwg. No. 400-1
For location of Mat slabs and mat bms. see Dwg. No. 400
For general notes, typ. dets., etc. see Dwg. No. 410.
For det. of conc. cols. piers, pedestals etc., see Dwg. No. 400-4.
For dets., dimensions, etc., not given see Archts. and M.E. Dwgs.

FOUNDATION TYPICAL DETAILS

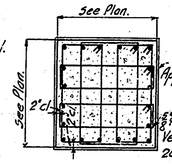
FEDERAL WORKS AGENCY JOHN M. CARMODY FEDERAL WORKS ADMINISTRATOR		
PUBLIC BUILDINGS ADMINISTRATION W. E. REYNOLDS COMMISSIONER OF PUBLIC BUILDINGS		
LOUIS A. SIMON SUPERVISING ARCHITECT		NEAL A. MELICK SUPERVISING ENGINEER
APPROVED		
W. G. NOLL CHIEF ARCHITECT	N. S. THOMPSON CHIEF MECHANICAL ENGINEER	T. C. BROOKS CHIEF STRUCTURAL ENGINEER

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Dubin Andrews Degenhardt DATE 6/20/41
CHECKED BY H.M.Z. DATE 7-11-41
DRAWING No. 400-3

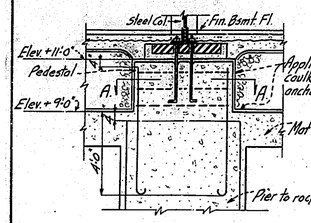
93 RETURN TO ROOM 411



PEDESTAL ON PILE CAP.



SECTION AA THRU PEDESTAL

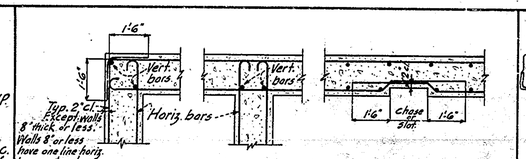


PEDESTAL ON PIER.

Note: See drwg. 408 for steel cols, anchor bolts etc.

TYPICAL DETAILS OF CONCRETE PEDESTALS

Scale - ¾" = 1'-0"



Wall Reint. Notes:

Vert. and horiz. bars to be continuous. Lap 40 dia. at splices. Hook discontinuous ends. Continue horiz. bars thru col. integral with wall. Bend horiz. bars around slots or chases in wall. See details.

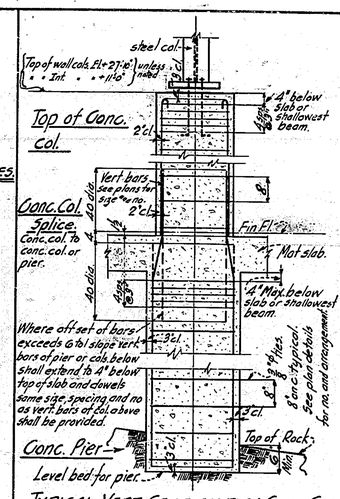
Reinf. at Opgs. in Wall - Provide 1-¾"⌀ 6'-0" lg. diag. bar at each corner of all opgs. At all opgs. place one bar for each 4" of vertical thickness of wall 2" clear of jambs, head and sill. Extend bars 40 dia. beyond opg. where possible and hook ends. Additional bars same size as normal wall reinf. For walls of thickness not in sched. use reinf. for next thicker wall - All concrete walls not otherwise shown or noted shall have minimum reinf. as noted in schedule.

Wall Reinforcing Each Face.

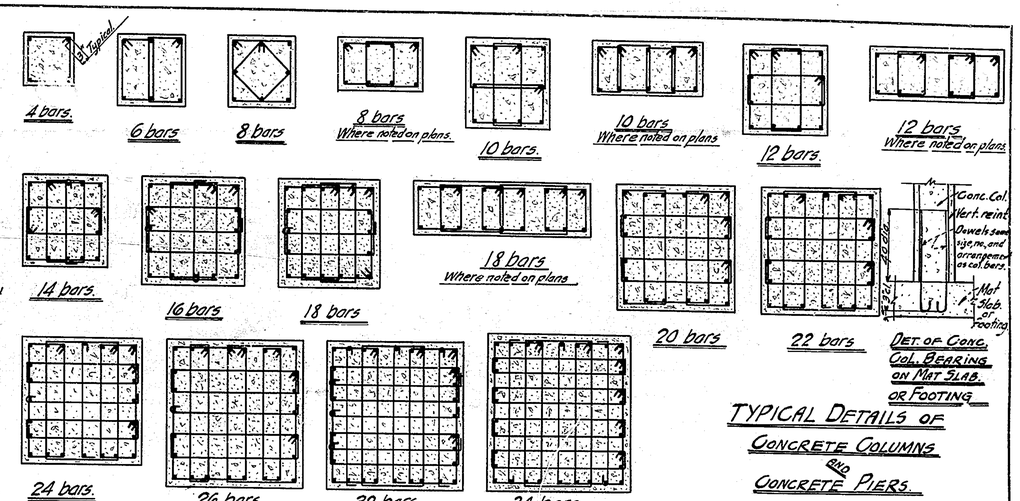
Wall Thickness	Vert. Bars Size	Vert. Bars Spacing	Horiz. Bars Size	Horiz. Bars Spacing
8" or less	⅝"⌀	2'-0"	⅝"⌀	18
10"	⅝"⌀	2'-0"	⅝"⌀	18
12"	⅝"⌀	2'-0"	⅝"⌀	16
14"	⅝"⌀	2'-0"	⅝"⌀	12
16"	⅝"⌀	2'-0"	⅝"⌀	10
18"	¾"⌀	2'-0"	¾"⌀	12
20"	¾"⌀	2'-0"	¾"⌀	12
22"	¾"⌀	2'-0"	⅞"⌀	12

TYPICAL DETAILS CONCRETE WALLS.

No Scale.



TYPICAL VERT. SECTION THRU CONC. COL AND PIER.



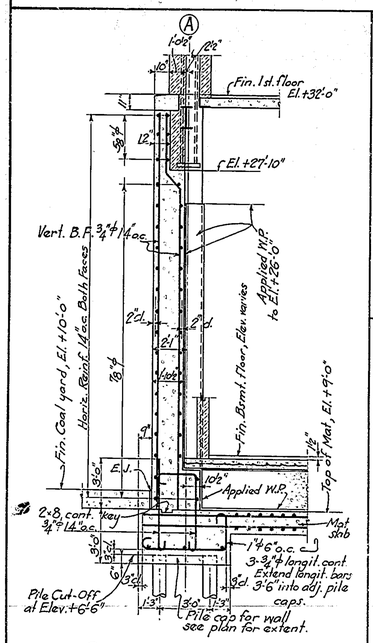
DET. OF CONC. COL. BEARING ON MAT SLAB. OR FOOTING

TYPICAL DETAILS OF CONCRETE COLUMNS AND CONCRETE PIERS.

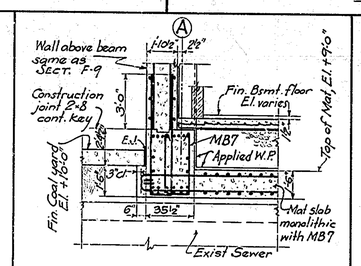
NO SCALE.

PLAN DETAILS OF CONC. COLS. AND PIERS

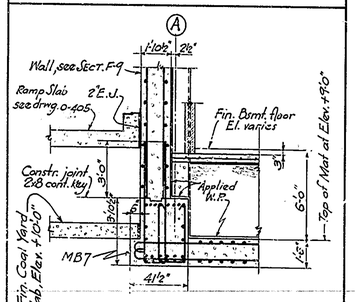
Note: Ties spaced in groups, 8" o.c.



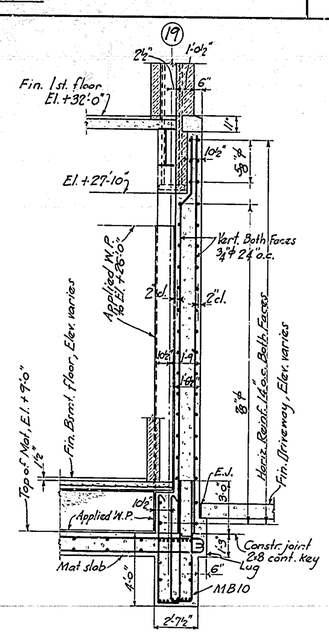
SECTION F-9
THRU SOUTH WALL OF BASEMENT



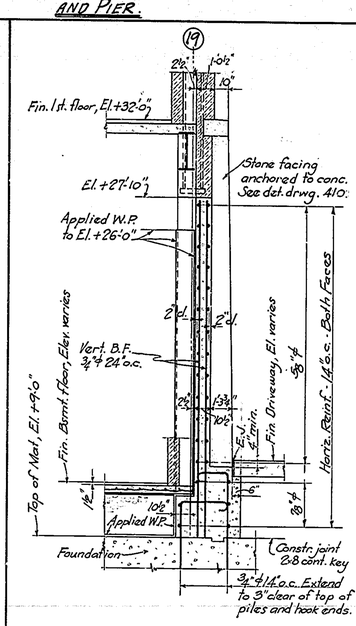
SECTION F-10



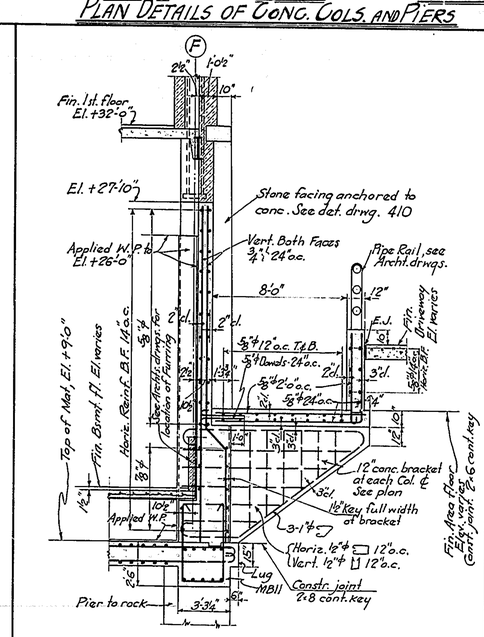
SECTION F-11



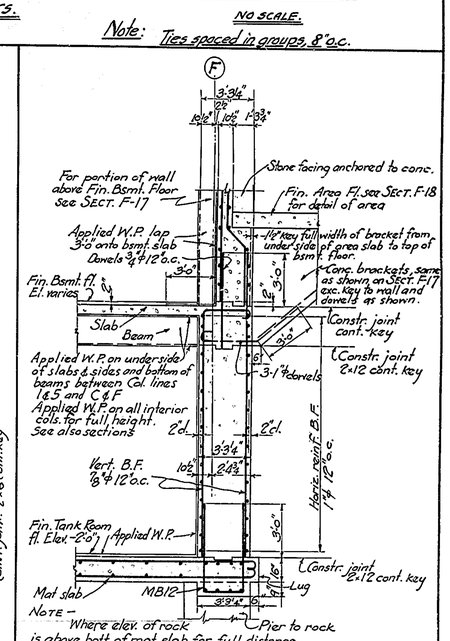
SECTION F-13
THRU EAST WALL OF BASEMENT



SECTION F-15



SECTION F-17
THRU NORTH WALL OF BASEMENT

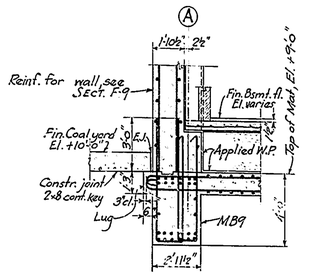


NOTE - Where elev. of rock is above bott. of mat slab for full distance between two col. lines, mat beams MB12 may be made same depth as mat slab with same reinf. as scheduled.

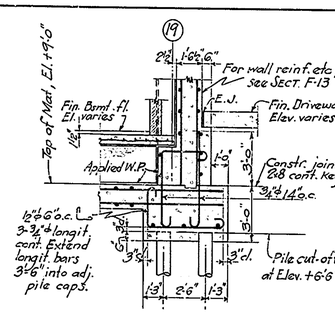
SECTION F-19
THRU NORTH WALL OF BASEMENT

NOTE:

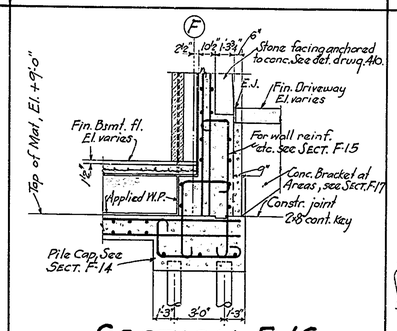
Bars noted "B.F." indicates reinf. both faces.



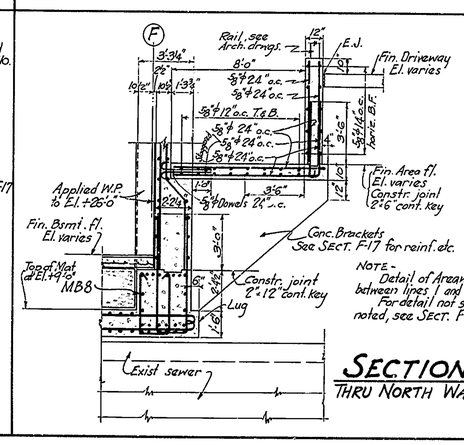
SECTION F-12



SECTION F-14



SECTION F-16



NOTE - Detail of Areaway typical between lines 1 and 7. For detail not shown or noted, see Sect. F-17.

SECTION F-18
THRU NORTH WALL OF BSMT.

NOTES

For details and dimensions not given see Archt's and Mechanical Drwgs.
Scale all details ¼" = 1'-0" unless noted.
For location of sections, extent etc. see drwgs. 400 and 400-1.
For location, size, reinf. etc., conc. cols, and piers see drwgs. 400 and 400-1.
For general notes, typ. details etc., see drwg. 410.
For details and sched. of slabs, beams, Mat slabs, mat beams etc., see drwg. 400-3.

FOUNDATION DETAILS

FEDERAL WORKS AGENCY
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FEDERAL WORKS ADMINISTRATOR

PUBLIC BUILDINGS ADMINISTRATION
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COMMISSIONER OF PUBLIC BUILDINGS

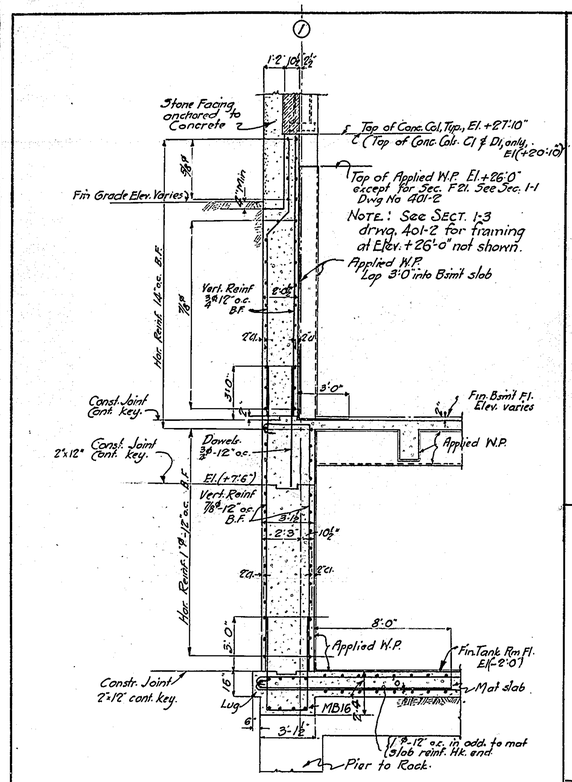
LOUIS A. SIMON, SUPERVISING ARCHITECT
NEAL A. MELICK, SUPERVISING ENGINEER

APPROVED

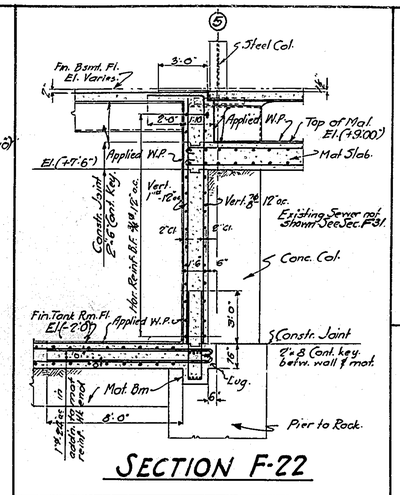
W. G. NOLL, CHIEF OF ARCHITECTURE — N. S. THOMPSON, CHIEF MECHANICAL ENGINEER — T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: Dubin, Andrews, Degenhardt — DATE: 2-20-41
CHECKED BY: H.M.Z. — DATE: 7-11-41
DRAWING: No. 400-4

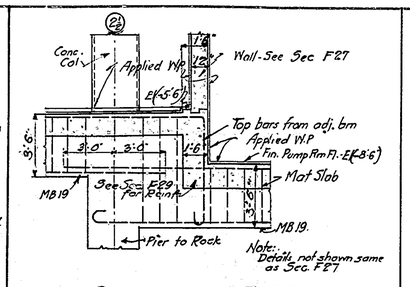
DCC00277 94 RETURN TO ROOM 41



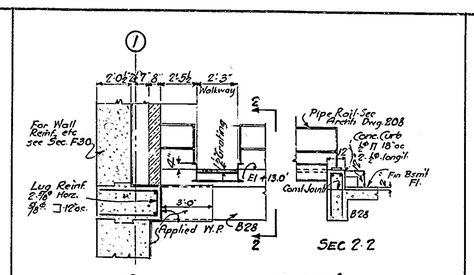
SECTION F-20 THRU WEST WALL OF BSMT.
SECTION F-21 SIM. " " " " "



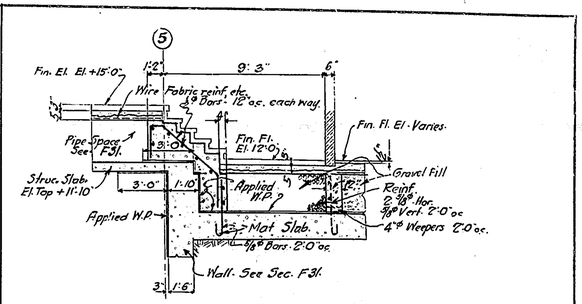
SECTION F-22



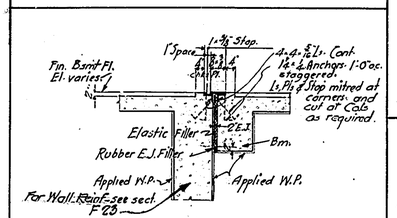
SECTION F-28



SECTION F-30'

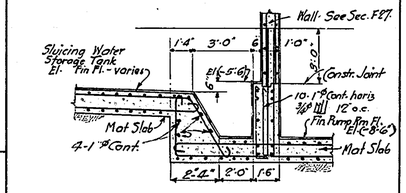


SECTION F-32

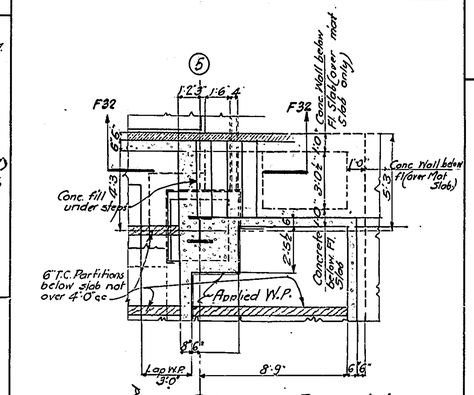


SECTION F-24
SECTION F-25 similar

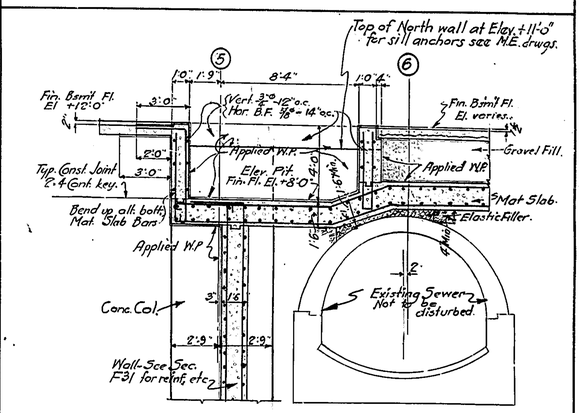
Scale: 3/8" = 1'-0"



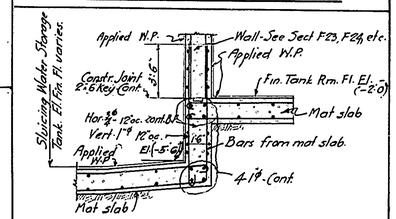
SECTION F-29



SECTIONAL PLAN-1-1

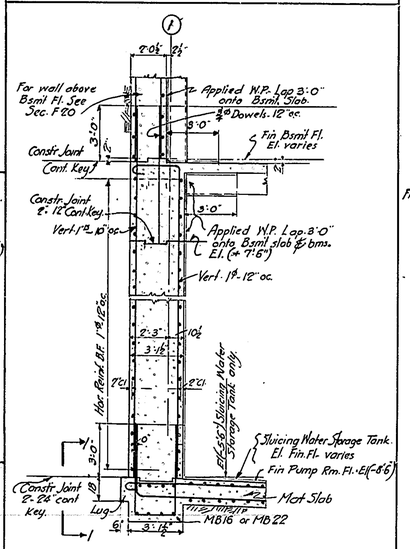


SECTION F-33

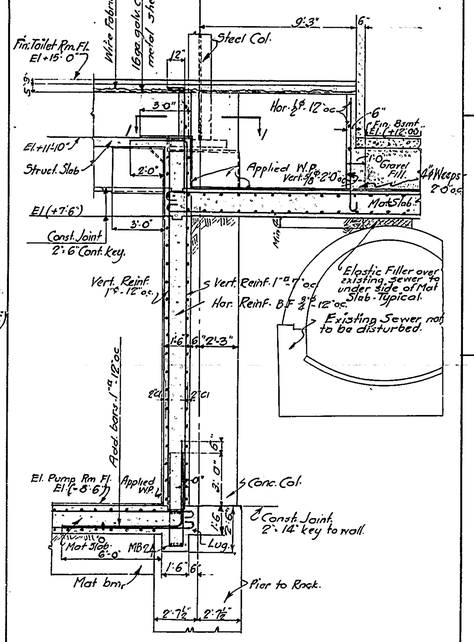


Note: Col. 6'-2 1/2" waterproofed full height.

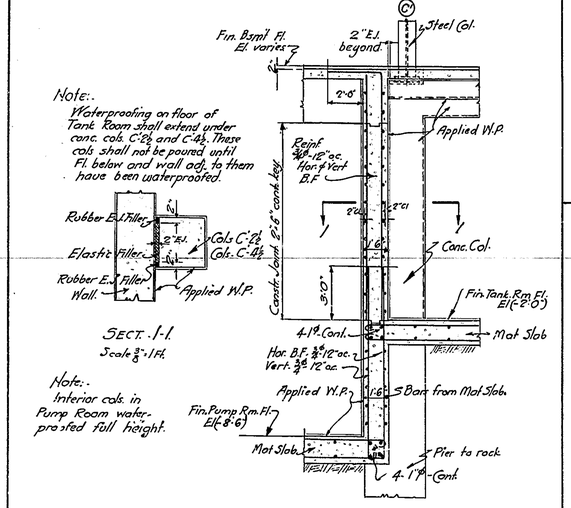
SECTION F-26



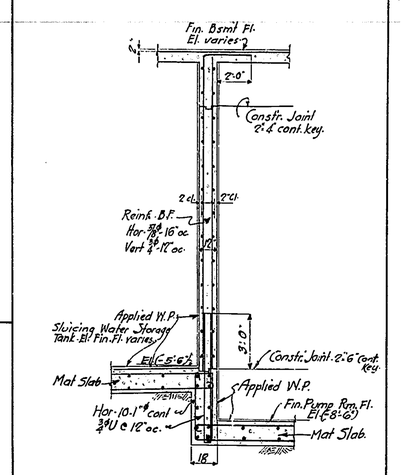
SECTION F-30



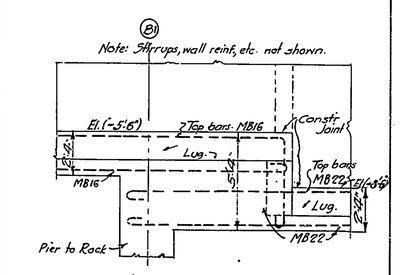
SECTION F-31



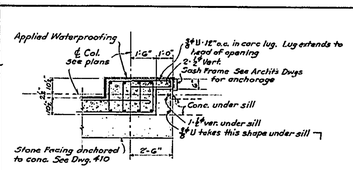
SECTION F-23



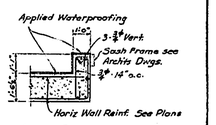
SECTION F-27



ELEVATION 1-1



TYPICAL REINF AT BSMT WINDOW JAMBS



JAMB SHOWN
HEAD & SILL SIMILAR

REINF AT BSMT OPNGS $\frac{B}{8A}$ & $\frac{B}{8B}$

NOTES.

Scale, All dets. 1/4" = 1'-0" unless otherwise noted.
See Dwgs. 400 & 400-1 for location and extent of Sections
For General Notes, Typical Details, Etc., see Dwg. No. 410, 400-3, 400-4
For details, dimensions, etc., not given see Archts and M.E. Dwgs

FOUNDATION DETAILS

FEDERAL WORKS AGENCY
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APPROVED

W. G. NOLL, CHIEF OF ARCHITECTURE	N. S. THOMPSON, CHIEF MECHANICAL ENGINEER	T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Dubin Aldederffer DATE 6/20-41
CHECKED BY H.M.Z. DATE 7-11-41
DRAWING No. 400-5

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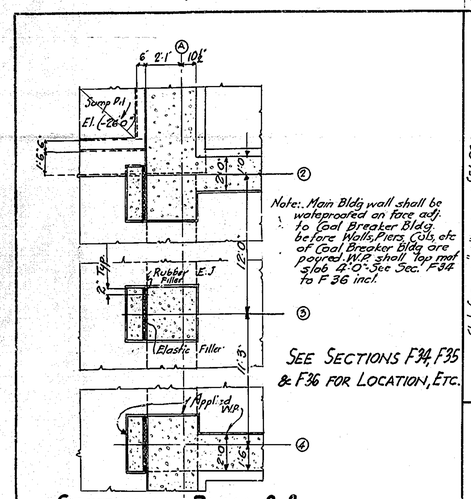
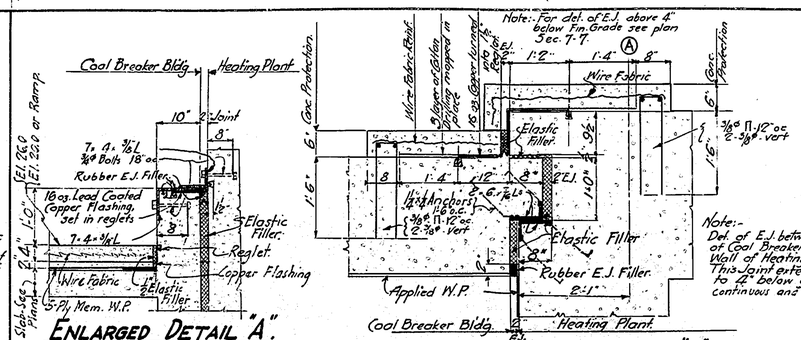
RETURN TO ROOM 411



SECTIONAL PLAN 3-3



ENLARGED DETAIL "A".

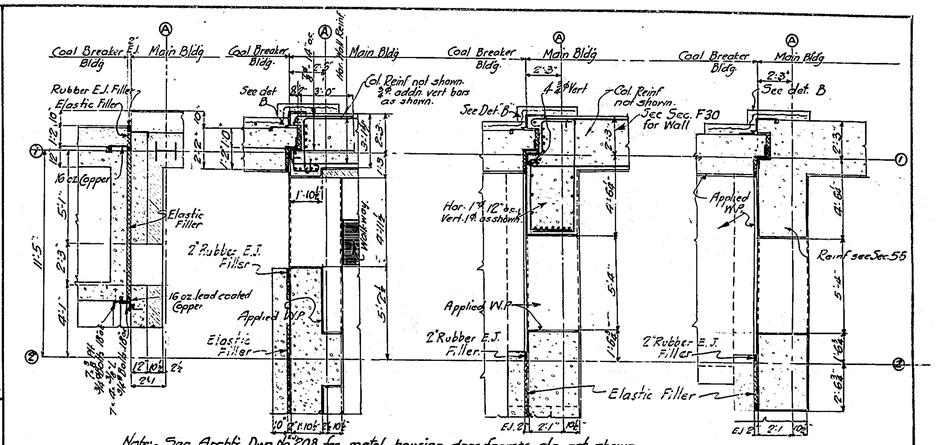
HORIZ. & CURB EXP. JOINT AT COAL BREAKER BUILDING.

Scale 3/4" = 1'-0"

ENLARGED DETAIL "B".

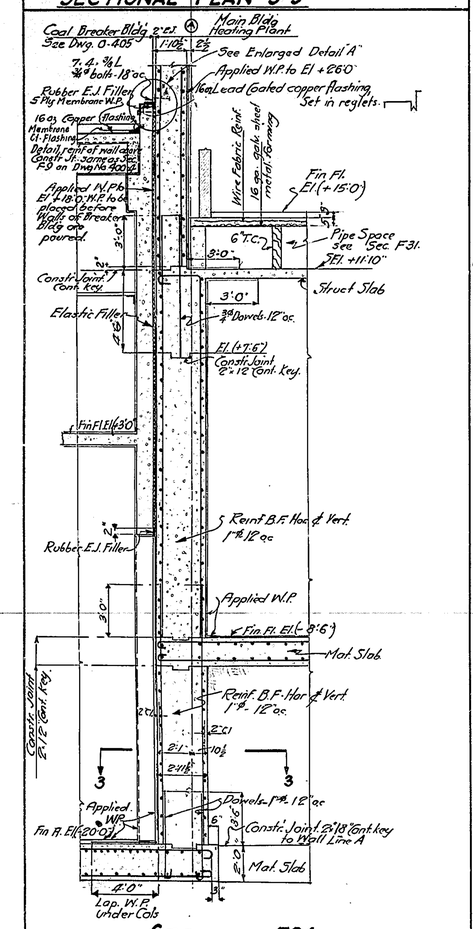
VERTICAL WALL EXP. JOINT AT COAL BREAKER BLDG.

Scale 3/4" = 1'-0"

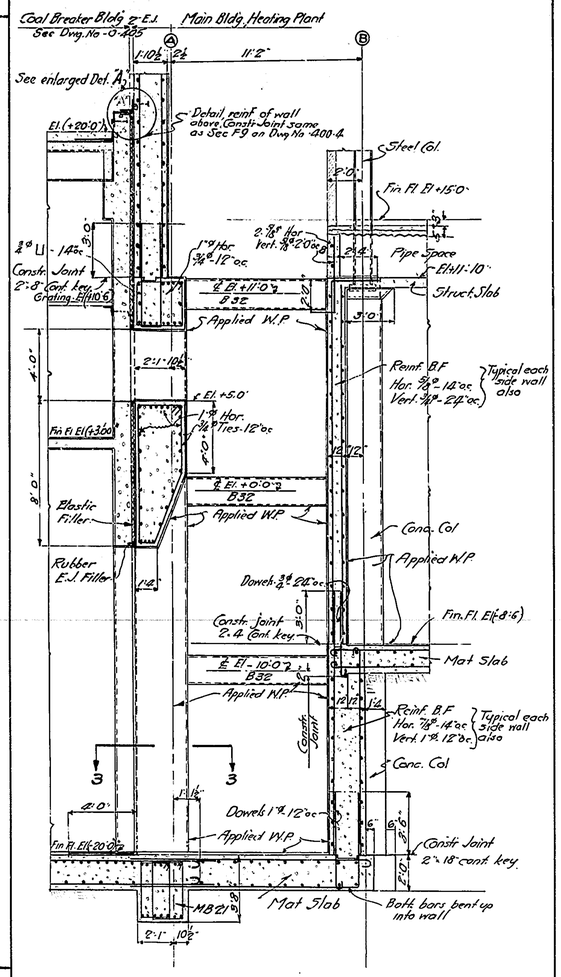


SECTION 7-7 | SECTION 6-6 | SECTION 5-5 | SECTION 4-4

SECTIONAL WALL PLANS - SEE SECTIONS F34, F35, F36 FOR LOCATION, ETC.

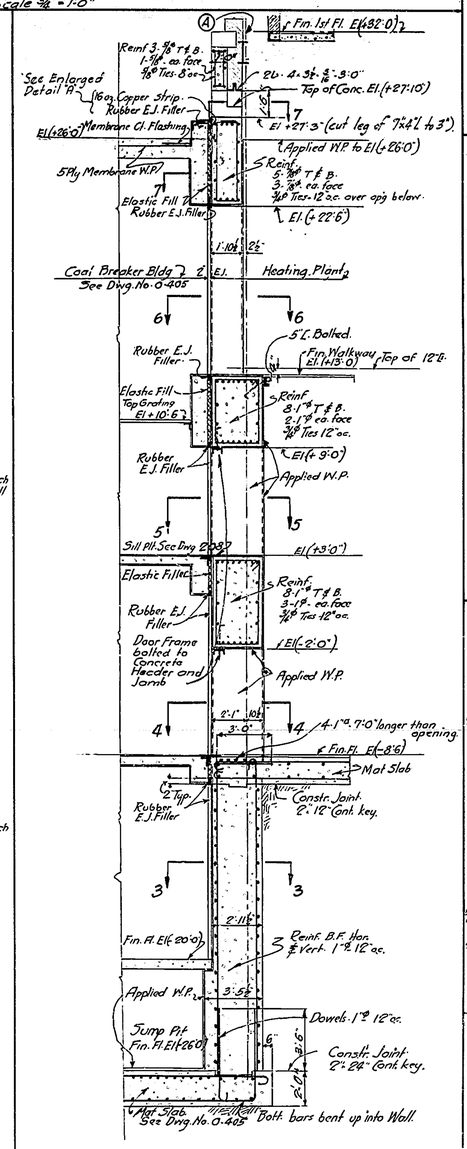


SECTION F34

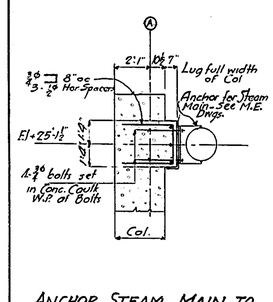


SECTION F35

SECTION F35' SIMILAR

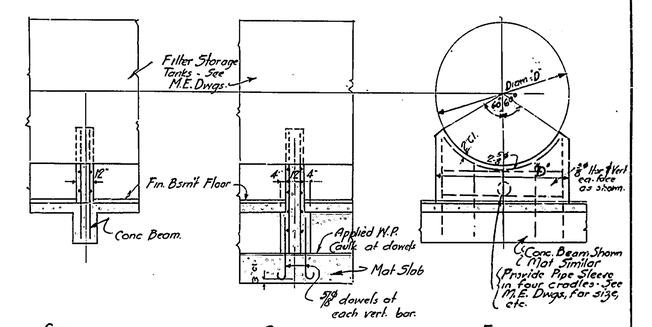


SECTION F36



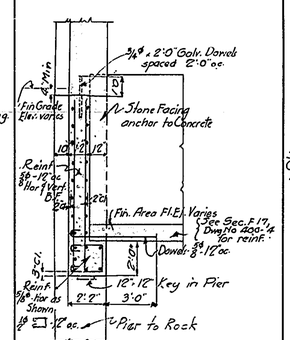
ANCHOR STEAM MAIN TO LUG - SEE MECH. DRWGS.

DETAIL OF LUG ON COL. A13

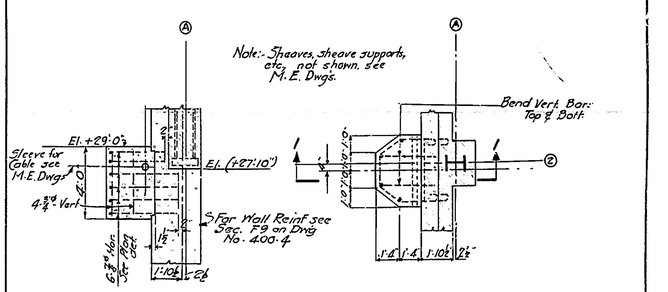


SECTION CRADLE ON CONC. BM. | SECTION CRADLE ON MAT SLAB | ELEVATION TYPICAL FOR BEAM OR MAT.

TYPICAL DETAIL OF CRADLES FOR FILTER TANKS.



SECTION F37.



DETAIL OF DRAG SCRAPER HEADPOST.

NOTES:

Scale of all Sections 1/4" = 1'-0" unless noted.

See Drawings No. 400 and 400-1 for location and extent, etc., of all Sections.

For General Notes, Typical Details, Etc., see Drwgs. 410, 400-3, and 400-4.

For details, dimensions, etc., not given, see architectural and mechanical drawings.

FOUNDATION DETAILS

PROJECT	WEST CENTRAL HEATING PLANT
LOCATION	WASHINGTON, D.C.
DRAWN BY	Dubin / Aldderffer — DATE 6-20-41
CHECKED BY	H.M.Z. — DATE 7-11-41
DRAWING	No. 400-6

FEDERAL WORKS AGENCY
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FEDERAL WORKS ADMINISTRATOR

PUBLIC BUILDINGS ADMINISTRATION
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COMMISSIONER OF PUBLIC BUILDINGS

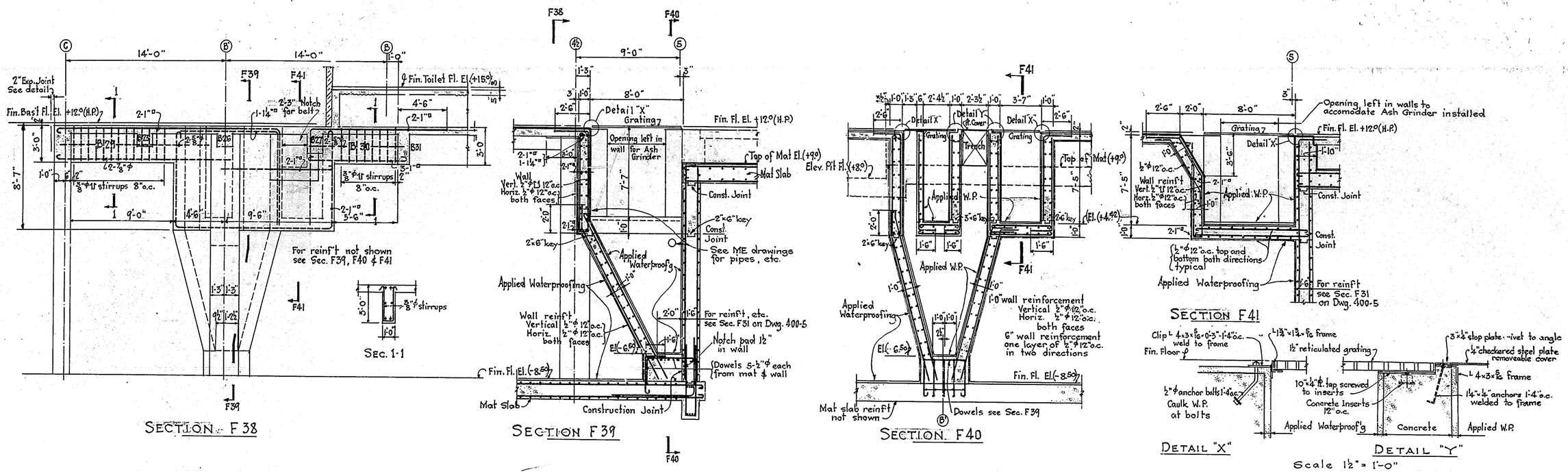
LOUIS A. SIMON, SUPERVISING ARCHITECT — NEAL A. MELICK, SUPERVISING ENGINEER

APPROVED

W. G. NOLL, CHIEF OF ARCHITECTURE — N. S. THOMPSON, CHIEF MECHANICAL ENGINEER — T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

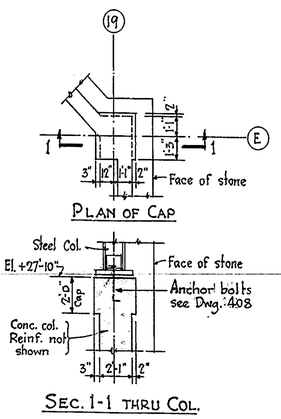
D000... 96

RETURN TO ROOM 411

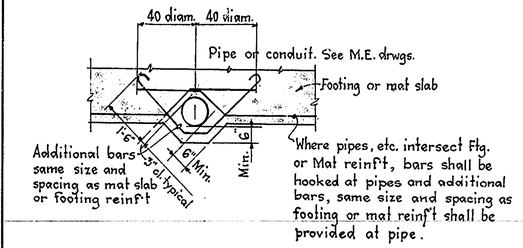


DETAILS OF ASH GRINDER PIT

Scale ¼" = 1'-0"

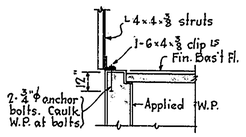


DETAIL OF CAP ON CONC. COL. E19



DETAIL OF PIPE, CONDUIT, ETC. THRU FOOTING OR MAT SLAB

No Scale



DETAIL AT BASE & STRUTS FOR ELEVATOR GUIDE RAIL SUPPORTS

NOTES:

Scale of all details ¼" = 1'-0" unless otherwise noted.

See Drwgs 400 & 400-1 for location and extent of sections.

For General Notes, Typical Details, etc. see dwg. 410, 400-3, 400-4

For details, dimensions, etc. not given see architectural and M.E. drawings.

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FOUNDATION DETAILS

41

PROJECT	WEST CENTRAL HEATING PLANT
LOCATION	WASHINGTON, D.C.
DRAWN BY	Dubin / Rankin — DATE 6-20-41
CHECKED BY	H.M.Z. — DATE 7-11-41
DRAWING	No. 400-7

FEDERAL WORKS AGENCY
JOHN M. CARMODY
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PUBLIC BUILDINGS ADMINISTRATION
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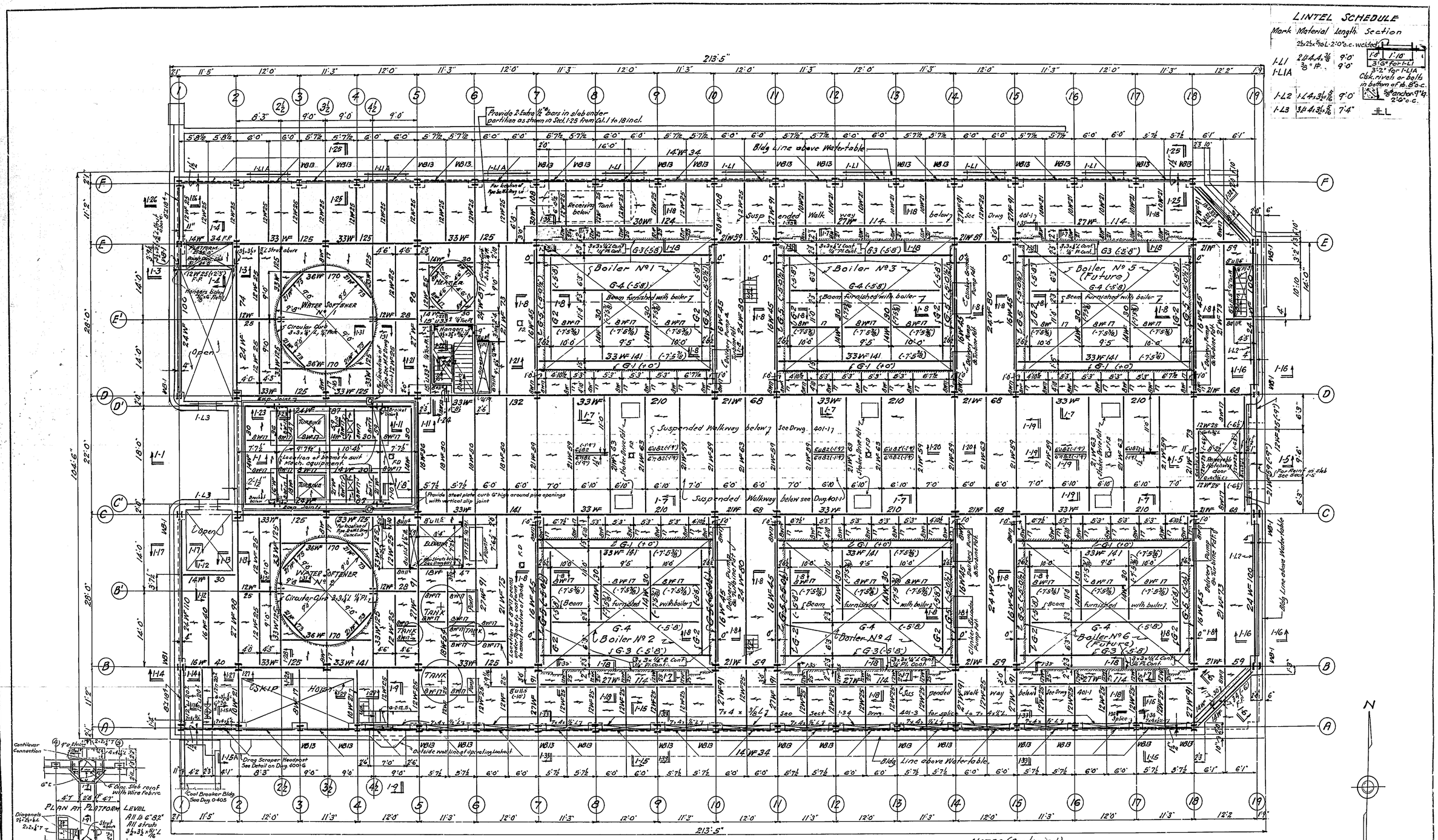
LOUIS A. SIMON, SUPERVISING ARCHITECT
NEAL A. MELICK, SUPERVISING ENGINEER

APPROVED

W. G. NOLL, CHIEF OF ARCHITECTURE — N. S. THOMPSON, CHIEF MECHANICAL ENGINEER — T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

RETURN TO ROOM 411



LINTEL SCHEDULE

Mark	Material	Length	Section
	2½x2½x5/16 L 2'-0" o.c. welded		
1-L1	2 L 4x4x3/8	9'-0"	1'-0" 1'-10" 3'-6" for 1-L1
1-L1A	3/8" Pl.	9'-0"	3'-2" for 1-L1A Clsk. rivets or bolts in bottom of lb. 8" o.c.
1-L2	1 L 4x3½x5/16	9'-0"	5/8" anchor 9" lg. 2'-6" o.c.
1-L3	3 L 4x3½x5/16	7'-4"	

GIRDER SCHEDULE

Mark	Web Plate	Flange ∠s	Assumed Loading
G-1	60x3/8	4 Ls 6x6x1/2	226k Unif. Load; 34'-6"
G-2	54x3/8	4 Ls 6x6x7/16	14k Uniform Load; 19'-6"
G-3	54x1/2	4 Ls 6x6x11/16	280k Unif. Load; 34'-6"
G-4	54x3/8	4 Ls 6x4x3/8	93k Unif. Load; 29'-5"
G-5	66x1/2	4 Ls 6x6x5/8	6k Unif. Load; 28'-0"

NOTE: Sizes of Girder members determined from assumed loading given above. Exact sizes and details shall conform to requirements of Boilers installed.

FIRST FLOOR FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES:

Finished 1st Floor at elevation 32.0

Top of rough concrete slab 2" below finished floor unless otherwise noted

Top of structural steel 7" below finished floor, unless otherwise noted.

Figures shown thus (-9") or (+2'-3") etc. indicate the distance from finished floor to top of steel.

Rough concrete slab panels, indicated thus on plan ⟷, shall be minimum of 6" thick, reinforced with 1/2" ϕ Bars 6" o.c., unless otherwise shown or noted.

For bar bending etc. see Typical Detail on Drwg. 410

Steel beams noted F.P. shall have typical fireproofing as shown on Drwg 410

Marks thus "WB1", "WM1" etc., indicate Special Wind Bracing connections, see details on Drwg 409 and 409-1

Provide moment connection for each beam, framing to columns, as noted on Drwg 409

For Sections 1-1 to 1-35 inclusive see Drwgs 401-2 and 401-3.

For detail of concrete curb at base of Interior steel columns see Drwg 410

NOTES (Continued)

For General Notes, Typical Details, Etc. see Drwg 410

For Column Schedule Etc. see Drwg. 408

For Lintel Schedule see this drawing.

Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg 410

Where size, detail etc. of structural members, etc, is not otherwise noted, same data applies as given for other similar members etc, where noted.

For steel stairs, grating walkway, pipe rails etc. see Architectural drawings.

For details, dimensions etc. not given see Architectural and Mechanical drawings.

For sizes of Girders, see Girder Schedule and notes.

On built up girders provide Stiffener ∠s 5x3½x½ in pairs spaced c. to c. not more than depth of girder, and also at all concentrated loads

"F.D." indicates floor drains, see mechanical drawings

See General Note "B", Drwg 410, for work required by omission of Mechanical Equipment, etc.

FIRST FLOOR FRAMING

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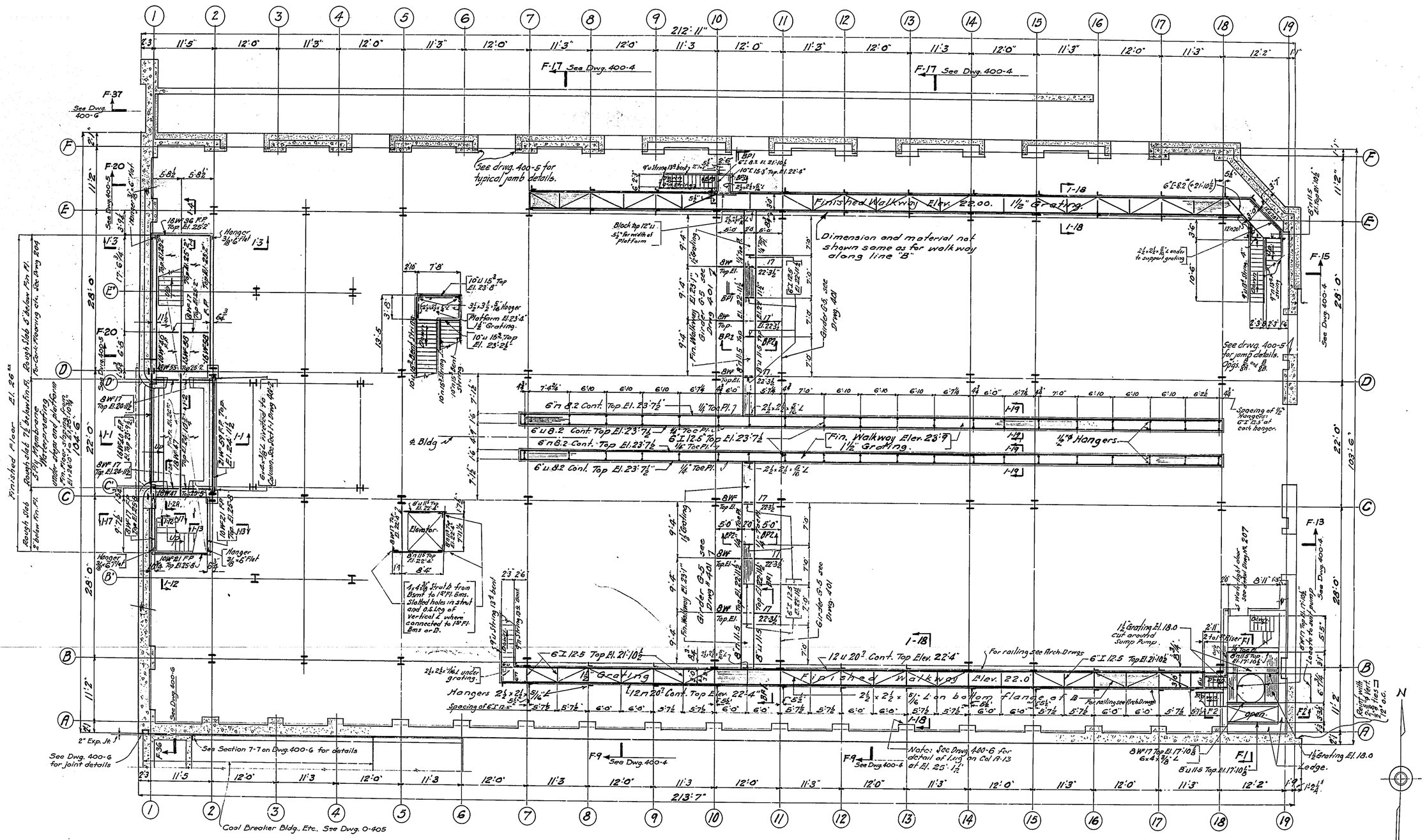
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY P.E. DATE 6-20-41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 401

RETURN TO ROOM 411



FLOOR AT EL. 26'-0" & BOILER WALKWAY FRAMING SUSPENDED BELOW 1st FLOOR

Scale 1/8" = 1'-0

NOTES:

Finished Floor and Walkways at elevation noted on plan.

Top of rough concrete slabs and top of steel at elevation noted on plan.

Rough concrete slab panels, indicated on plan thus ←→, shall be minimum of 6" thick, reinforced with ½"ϕ bars 6" o.c., unless otherwise shown or noted. For bar bending etc. see Typical Details on Drwg 410

Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. 410

Provide moment connection for each beam framing to columns, as noted on Drwg 409

NOTES (Cont.)

For Sections F-1, F2 see Drwg 400-2. For Sections 1-1 to 1-4 incl, 1-12, 1-13 1-17, 1-18, 1-19, BP1 to BP3 incl. see Drwgs 401-2 and 401-3.

For General Notes, Typical Details, Etc. see Drwg 410

For Column Schedule Etc. see Drwg. 408.

Modify locations, size etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. 410

Where size, detail etc. of structural members etc. is not otherwise noted, same data applies as given for other similar members etc. where noted:

For steel stairs, grating walkway, pipe rails etc. see Arch. Drwgs.

For details, dimensions etc. not given see Arch. & Mech. Drwgs.

For reinf. size, etc. of concrete columns below Elev. +27'-10" see Dwg. 400-1

All hangers and horiz. bracing in platforms shall be 2½ × 2½ × 5/16 ∠s unless noted.

NOTES (Cont.)

See General Note "B" Drwg 410, for work required by omission of Mechanical Equipment, etc.

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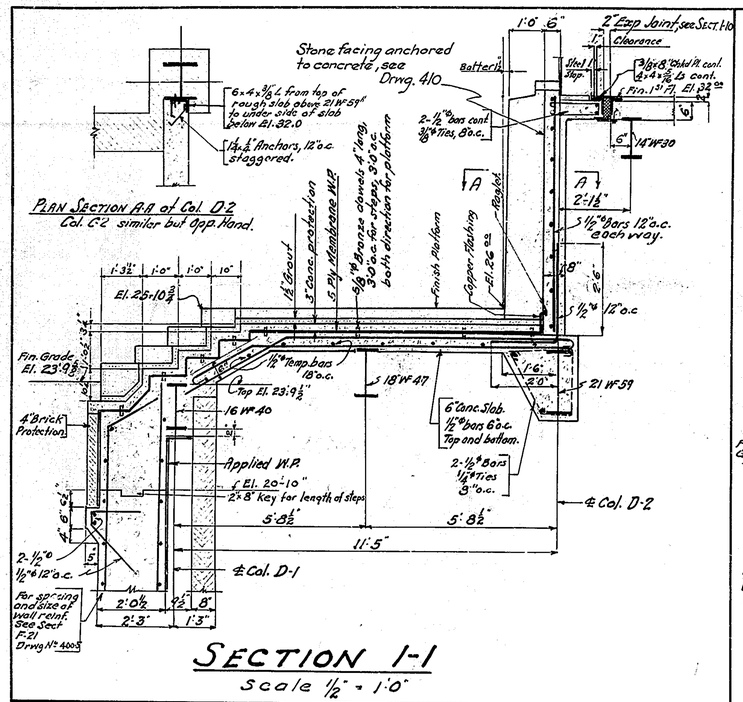
N. S. THOMPSON, CHIEF MECHANICAL ENGINEER
T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

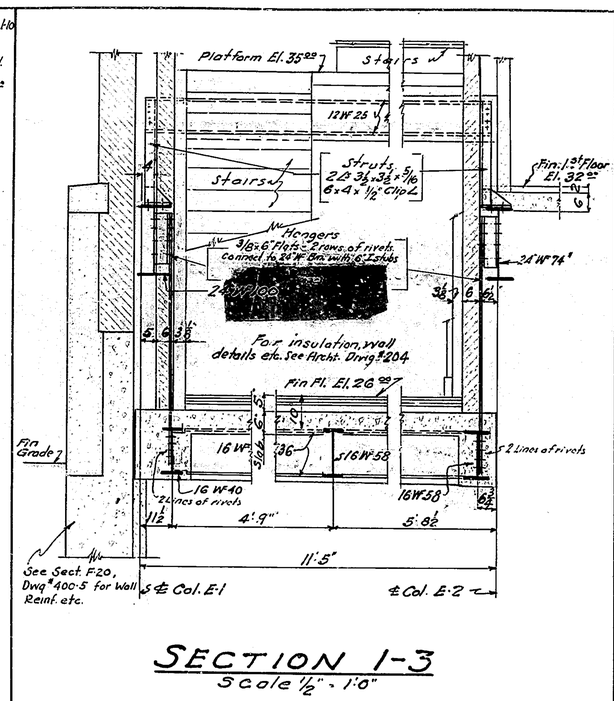
BOILER WALKWAY, ETC.

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY P.E. DATE 6-20-41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 401-1

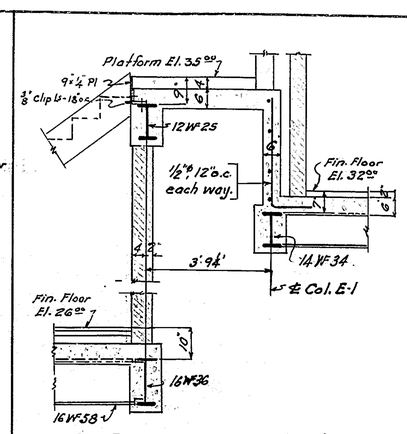
RETURN TO ROOM 411



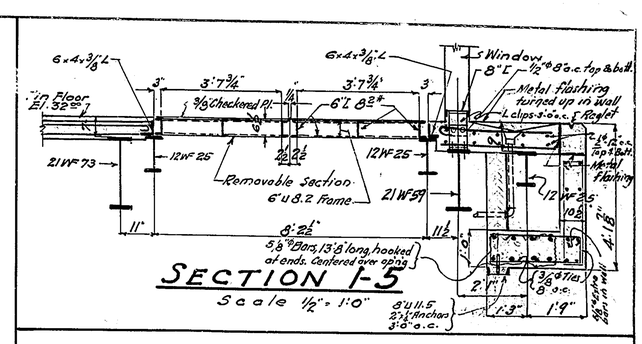
SECTION 1-1
Scale 1/2" = 1'-0"



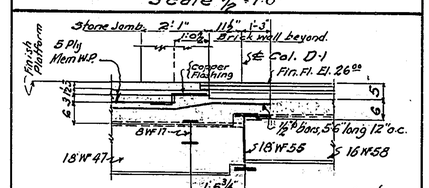
SECTION 1-3
Scale 1/2" = 1'-0"



SECTION 1-4
Scale 1/2" = 1'-0"

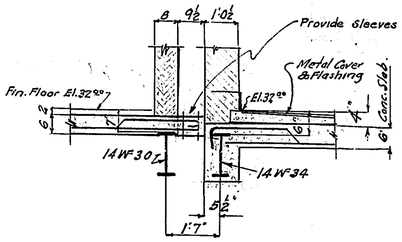


SECTION 1-5
Scale 1/2" = 1'-0"

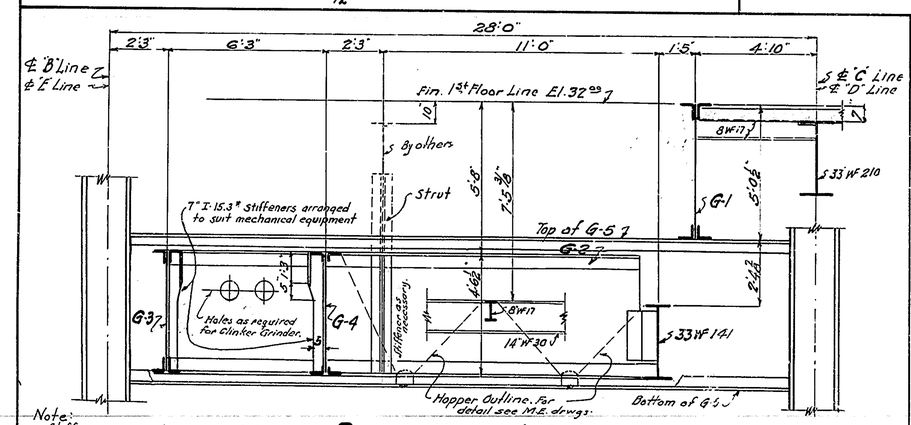


SECTION 1-2
Section thru Door 1/17
Scale 1/2" = 1'-0"

Section 1-2A similar.

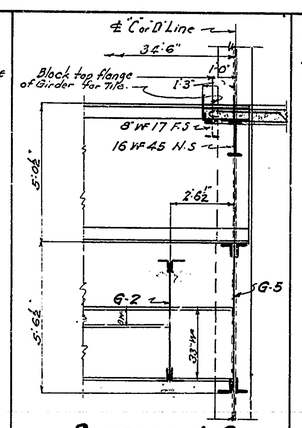


SECTION 1-6
Scale 1/2" = 1'-0"

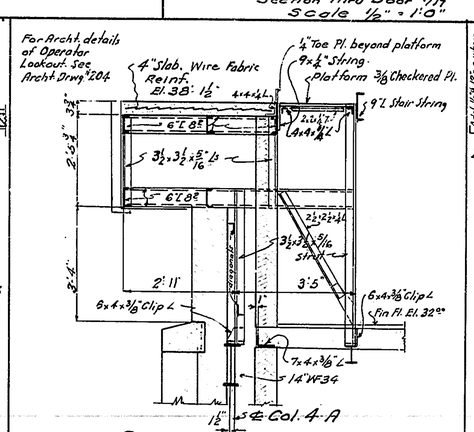


Note: Stiffeners, connections, etc. not shown. See note on drwg #401 for requirements, etc.

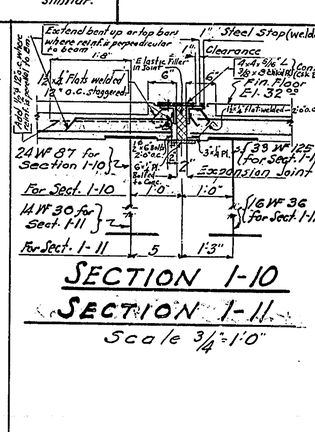
SECTION 1-7
Scale 3/8" = 1'-0"



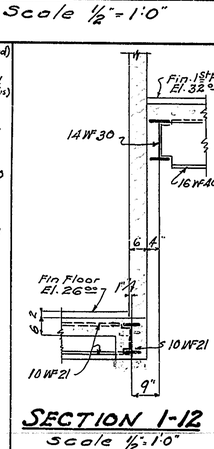
SECTION 1-8
Scale 3/8" = 1'-0"



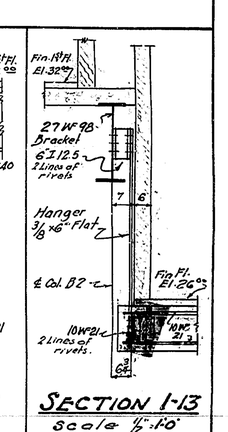
SECTION 1-9
Scale 1/2" = 1'-0"



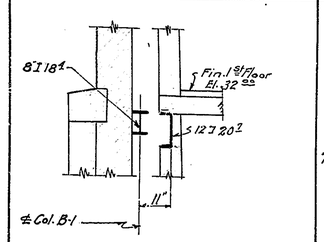
SECTION 1-10
SECTION 1-11
Scale 3/4" = 1'-0"



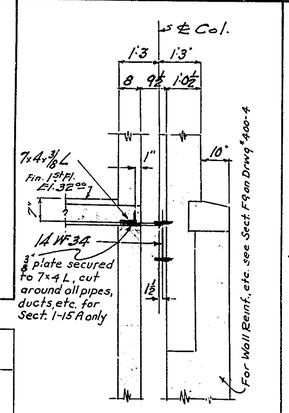
SECTION 1-12
Scale 1/2" = 1'-0"



SECTION 1-13
Scale 1/2" = 1'-0"

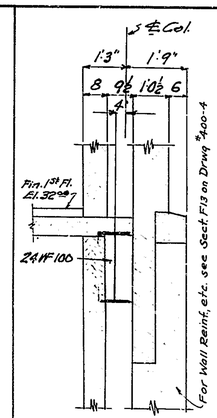


SECTION 1-14
Scale 1/2" = 1'-0"

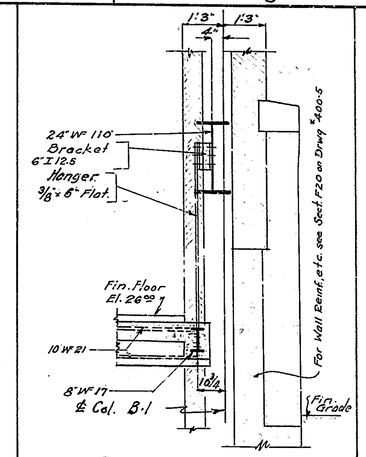


SECTION 1-15
Scale 1/2" = 1'-0"

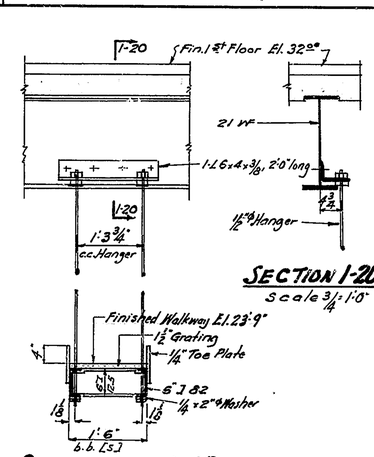
SECTION 1-15A AS NOTED

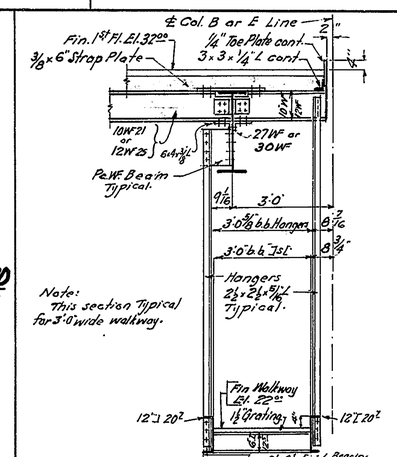


SECTION 1-16
Scale 1/2" = 1'-0"



SECTION 1-17
Scale 1/2" = 1'-0"





Note:
For location of sections see Drwg 401
For General Notes, Typical Details, Etc. see Drwg 410
For Column Schedule, Etc. see Drwg. 408
Modify location, size etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. 410
Where size, detail etc. of structural members, etc., is not otherwise noted, same data applies as given for other similar members etc. where noted.
For steel stairs, grating walkway, pipe rails etc. see Archt. drawings.
For typical fireproofing of beams see Drwg. 410
For Wind Bracing, etc., not given on sections see Drwgs. 409 and 409-1

FIRST FLOOR DETAILS

PROJECT	WEST CENTRAL HEATING PLANT
LOCATION	WASHINGTON, D.C.
DRAWN BY	P.E. DATE 6-20-41
CHECKED BY	L.R. DATE 7-11-41
DRAWING	No. 401-2

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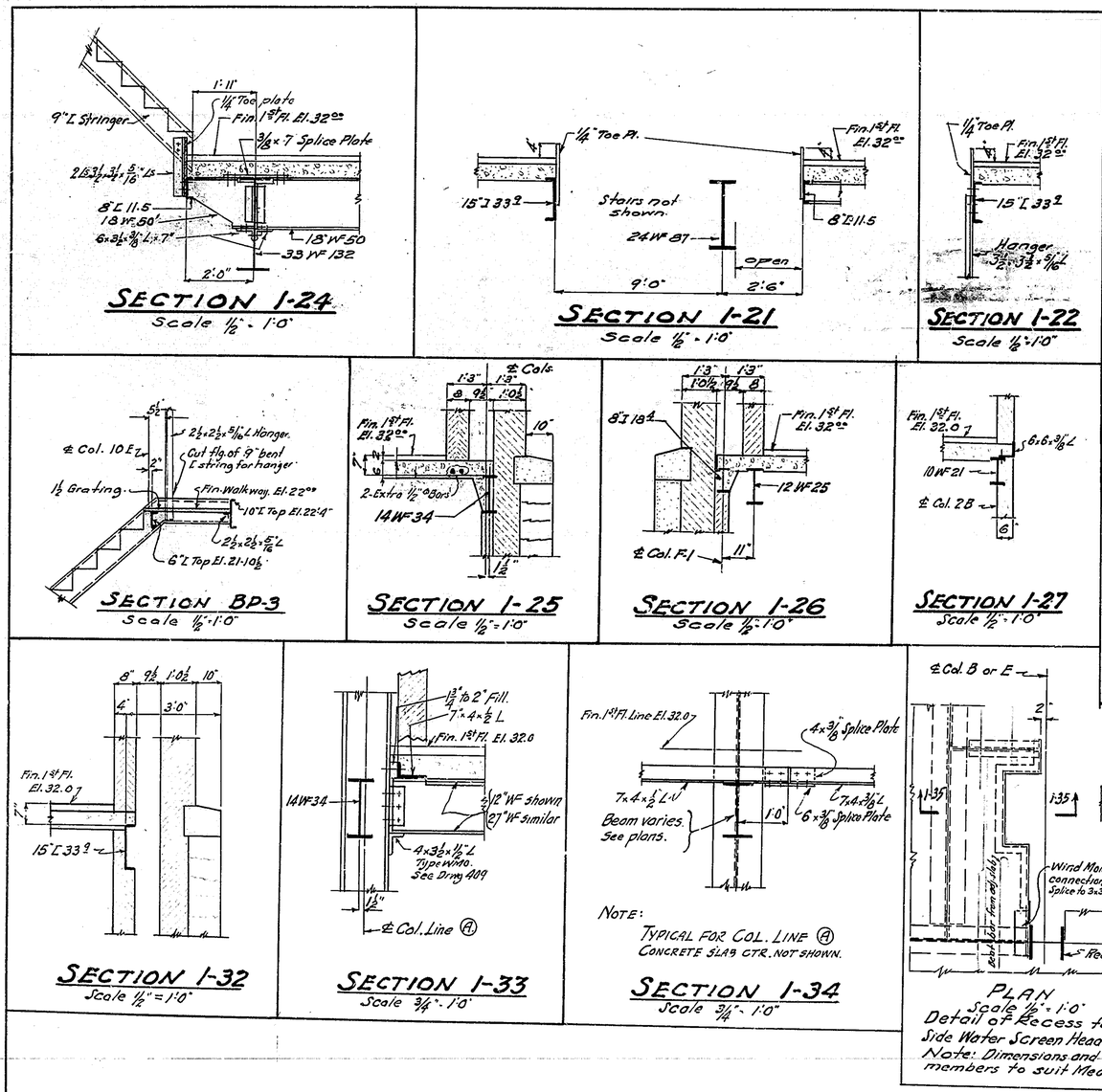
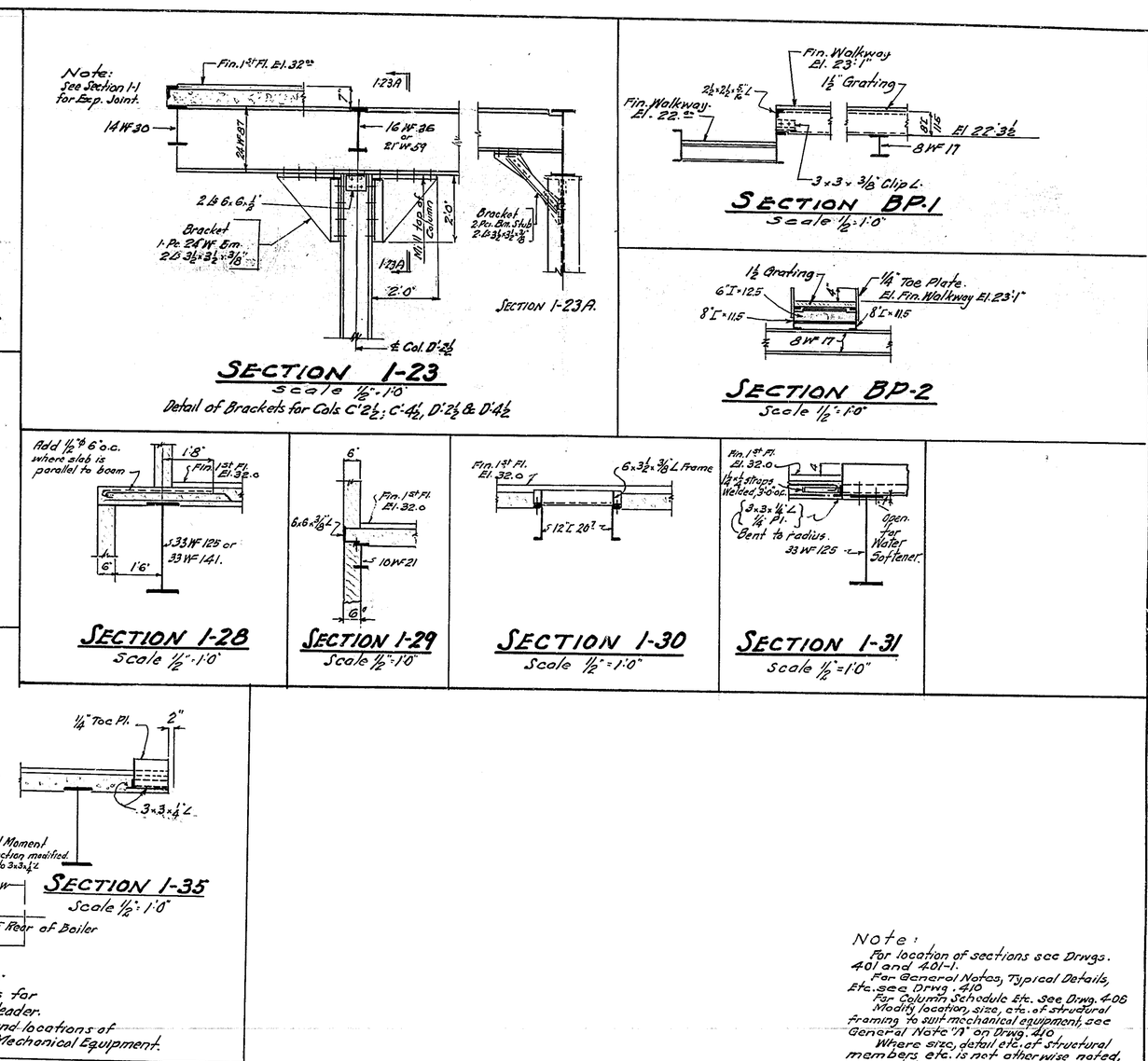
RETURN TO ROOM 4-11





Note:
For location of sections see Drwgs. 401 and 401-1.
For General Notes, Typical Details, Etc. see Drwg. 410
For Column Schedule Etc. see Drwg. 408
Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. 410
Where size, detail etc. of structural members, etc. is not otherwise noted, same data applies as given for other similar members etc. where noted.
For steel stairs, grating walkway, pipe rails, etc. see Arch'l drawings.
For typical fireproofing of beams see Drwg. 410
For Wind Bracing etc. not given in sections, see Drwgs. 409 and 409-1

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T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

101

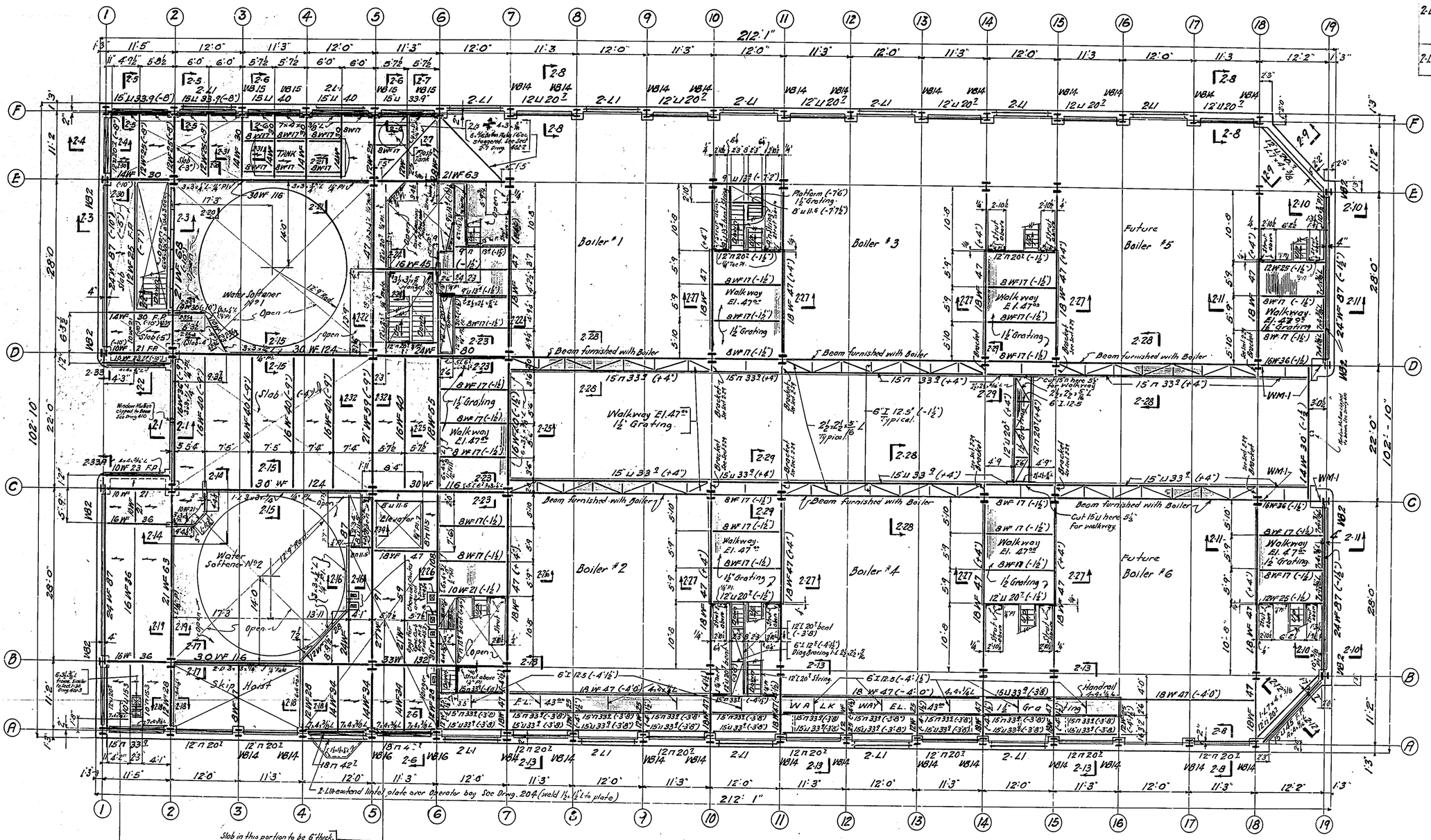
FIRST FLOOR DETAILS

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY P.E. DATE 6-20-41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 401-3

RETURN TO ROOM 411

24X --

LINTEL SCHEDULE			
Mark	Material	Length	
2-L1	2Ls 4x4x3/8, Pl. 30x3/8	9'-0", 9'-0"	2Ls 4x4x3/8 (2'-0" o.c. weld) 8½ 1½ 1½ 8 2'-6" Stick rivets or bolts etc. in bottom of plate.
2-L1A	2Ls 4x4x3/8, Pl. 3/8	9'-0", 9'-0"	Similar to 2-L1. See Plan - Bol. Cat. 425 on "A" Line.



SECOND FLOOR AND WALKWAY FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES:

Finished 2nd Floor at elevation 47.0

Elevation of Walkways as noted on plan.

Top of rough concrete slab 1½" below finished floor unless otherwise noted thus "Slab (-4")"

Top of structural steel 6½" below finished floor, unless otherwise noted.

Figures shown thus (-3'-8") or (+4") etc. indicate the distance from finished 2nd Floor El. 47.0 to top of steel beams.

Rough concrete slab panels, indicated thus on plan → shall be minimum of 6" thick, reinforced with ½" ϕ Bars 8" o.c., unless otherwise shown or noted. For bar bending etc. see Typical Detail on Drwg 410.

Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. 410

Marks thus "WB-1", "WM-1" etc., indicate Special Wind Bracing connections, see details on Drwg. 409 and 409-1

Provide moment connection for each beam framing to columns, as noted on Drwg. 409

For Sections 2-1 to 2-36 inclusive see Drwg. 402-2

NOTES (Continued)

For General Notes, Typical Details, Etc., see Drwg 410

For Column Schedule Etc. see Drwg. 408

For Lintel Schedule see this drawing.

Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. 410

Where size, detail etc. of structural members etc. is not otherwise noted, same data applies as given for other similar members etc., where noted.

For steel stairs, grating walkway, pipe rails etc. see Architectural drawings.

For details, dimensions etc. not given see Archt. and Mechanical drawings.

All hangers and struts 3½x3½x5/16 L unless otherwise noted.

All bracing Ls to be 2½x2½x5/16 unless otherwise given.

See General Note "B", Drwg. 410, for work required by omission of Mechanical Equipment, etc.

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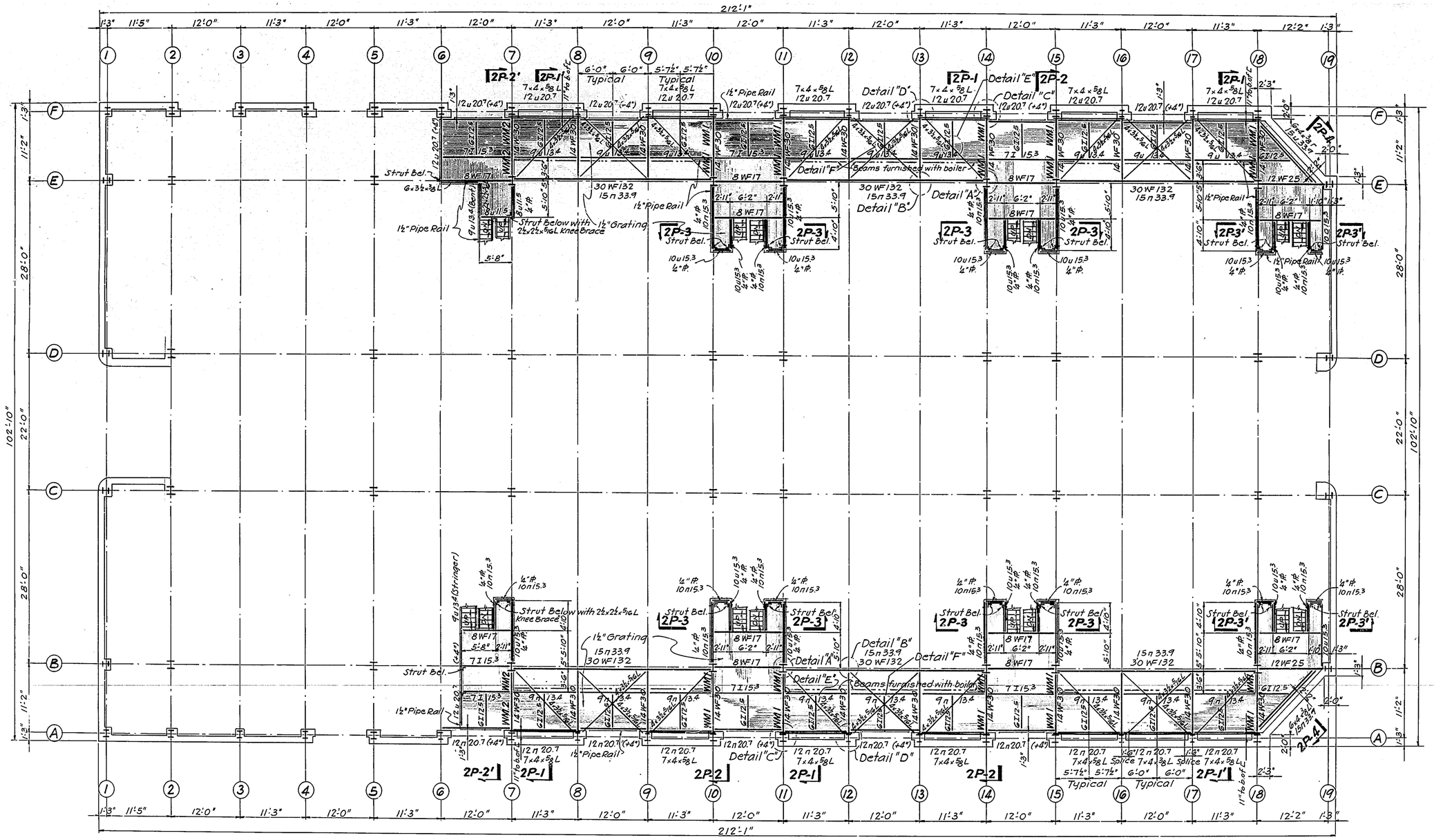
SECOND FLOOR FRAMING PLAN

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY P.E. DATE 6-20-41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 402



WALKWAY FRAMING PLAN AT ELEV. 51'-10½"

Scale 1/8" = 1'-0"

NOTES

Top of walkway grating at elevation 51'-10½".
Top of structural steel 1½" below top of grating at elevation 51'-10½" unless otherwise noted.
Figures shown thus: (-1½") or (+4") etc. indicate the distance from top of grating at elevation 51'-10½" to top of steel framing.
Marks thus: WB1, WM1, etc., indicate special Wind Bracing connections, see details on Drwg. No. 409 and Drwg. No. 409-1.
Provide moment connection for each beam framing to columns, as noted on Drwg. No. 409.
For Sections 2P-1 to 2P-4 inclusive and Details see Drwg. No. 402-3.
All hangers and struts are 3½x3½x5/16 L, unless otherwise noted.
For General Notes, Typical Details, Etc., see Drwg. No. 410.
For Column Schedule, Etc., see Drawing No. 408.

NOTES CONTINUED

Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. No. 410.
Where size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members, etc. where noted.
For steel stairs, grating walkways, pipe rails, etc. see Architectural Dwgs.
For details, dimensions, etc. not given see Architectural & Mechanical Drwgs.
For location of struts not given see Drwg. No. 402.

See General Note "B" Drwg. 410, for work required by omission of Mechanical Equipment, etc.

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EL. 51'-10½" - WALKWAY FRAMING

54

PROJECT	WEST CENTRAL HEATING PLANT
LOCATION	WASHINGTON, D.C.
DRAWN BY	Harris
DATE	8-20-41
CHECKED BY	A.R.
DATE	7-11-41
DRAWING	No. 402-1

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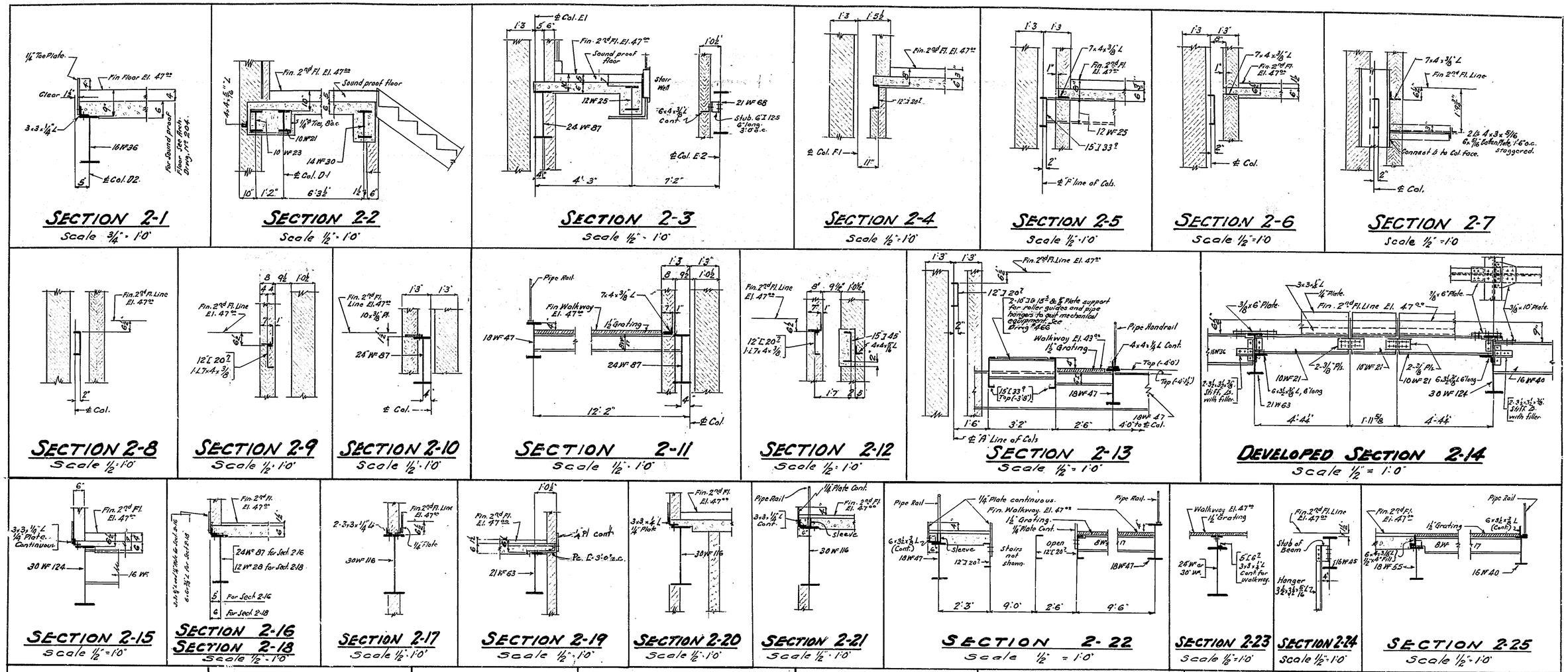
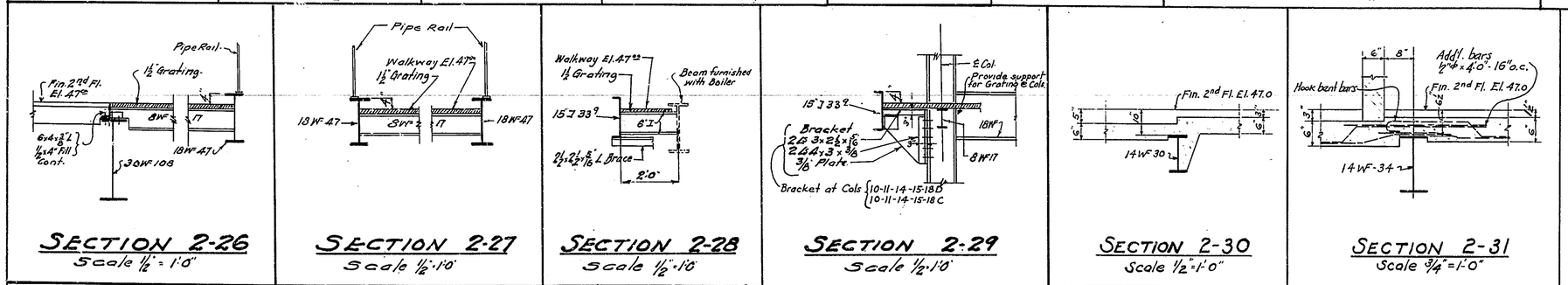
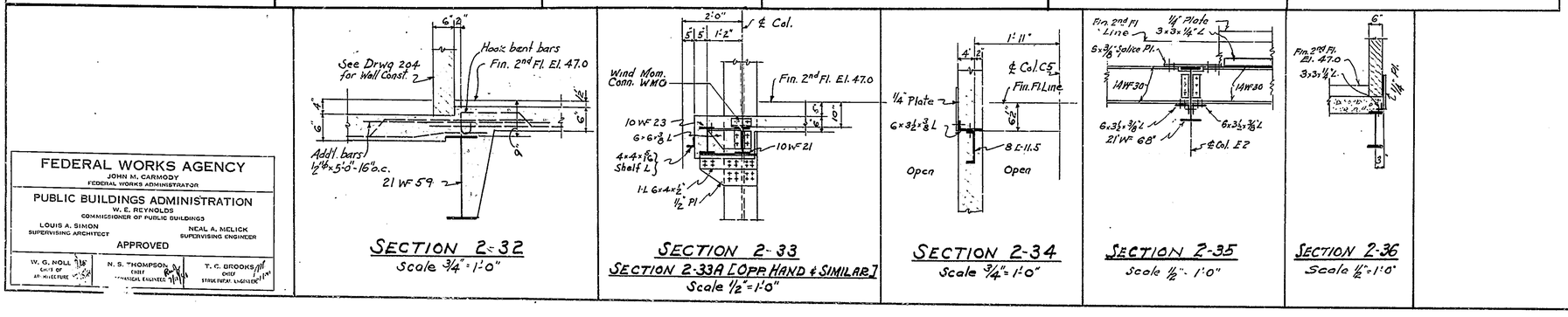




NOTE

For location of Sections see Drwg. 402
For General Notes, Typical Details, Etc. see Drwg. 410
For Column Schedule Etc. see Drwg. 408
Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. 410
Where size, detail etc. of structural members etc. is not otherwise noted, same data applies as given for other similar members etc. where noted.
For steel stairs, grating walkway, pipe rails etc. see Archt. drawings.
For Typical fireproofing of beams see Drwg 410
For details of Wind Bracing not shown on these sections see Drwgs 409 & 409-1



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N. S. THOMPSON — CHIEF MECHANICAL ENGINEER
T. C. BROOKS — CHIEF STRUCTURAL ENGINEER

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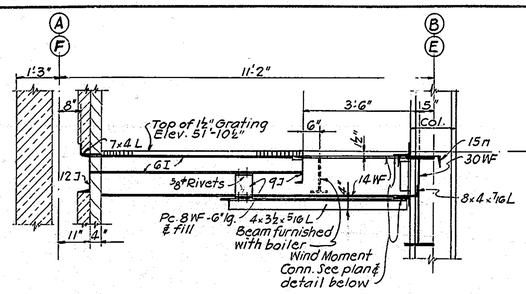
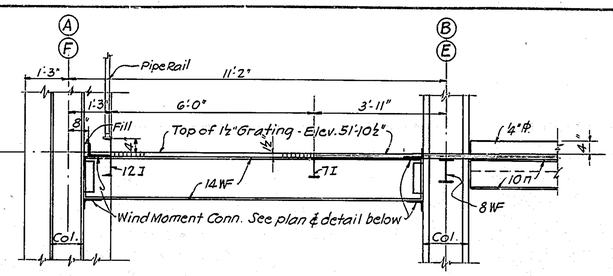
SECOND FLOOR DETAILS

55

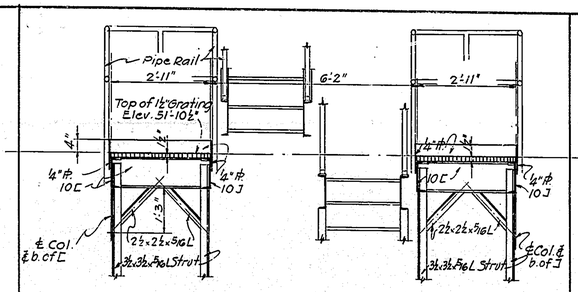
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY P.E. DATE 6-20-41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 402-2



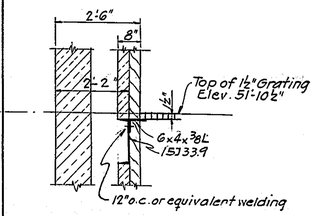
SECTION 2P-1
SECTION 2P-1' SIMILAR



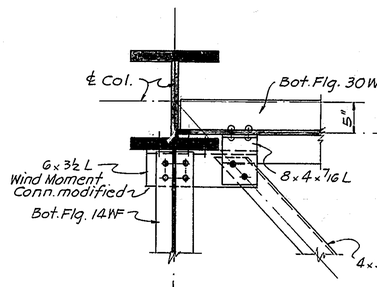
SECTION 2P-2
SECTION 2P-2' SIMILAR



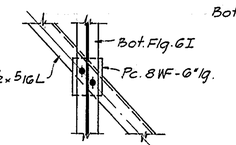
SECTION 2P-3
SECTION 2P-3' SIMILAR



SECTION 2P-4



DETAIL "A"
Scale 1"=1'-0"
APPLIES TO BOTTOM OF BEAMS



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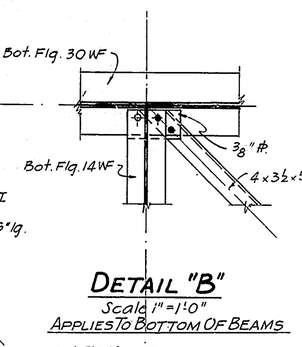

DETAIL "B"
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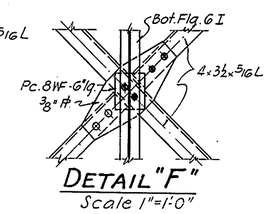
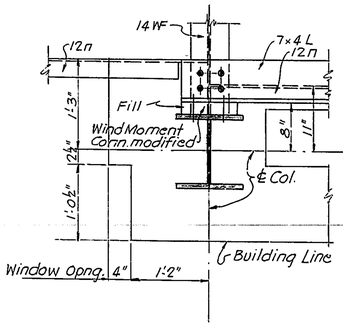
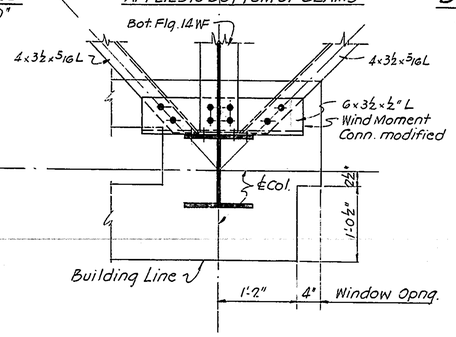


DETAIL "F"
Scale 1"=1'-0"



DETAIL "C"
Scale 1"=1'-0"
APPLIES TO TOP OF BEAMS



DETAIL "D"
Scale 1"=1'-0"
APPLIES TO BOTTOM OF BEAMS

DETAILS "A" TO "F" ARE TYPICAL FOR ELEV. 51'-10½"

NOTES
Scale of all sections and details ½"=1'-0" unless otherwise noted.
For General Notes, Typical Details, etc. see Drwg. No. 410.
For Wind Bracing Details not shown on these sections see Drwgs. No. 409 and 409-1.
For details and dimensions not given see Architectural and Mechanical Drwgs.
For location, extent, etc. of sections and details see Drwg. No. 402-1.

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EL. 51'-10½" WALKWAY DETAILS

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PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Harris DATE 6-20-41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 402-3

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NEAL A. MELICK, SUPERVISING ENGINEER
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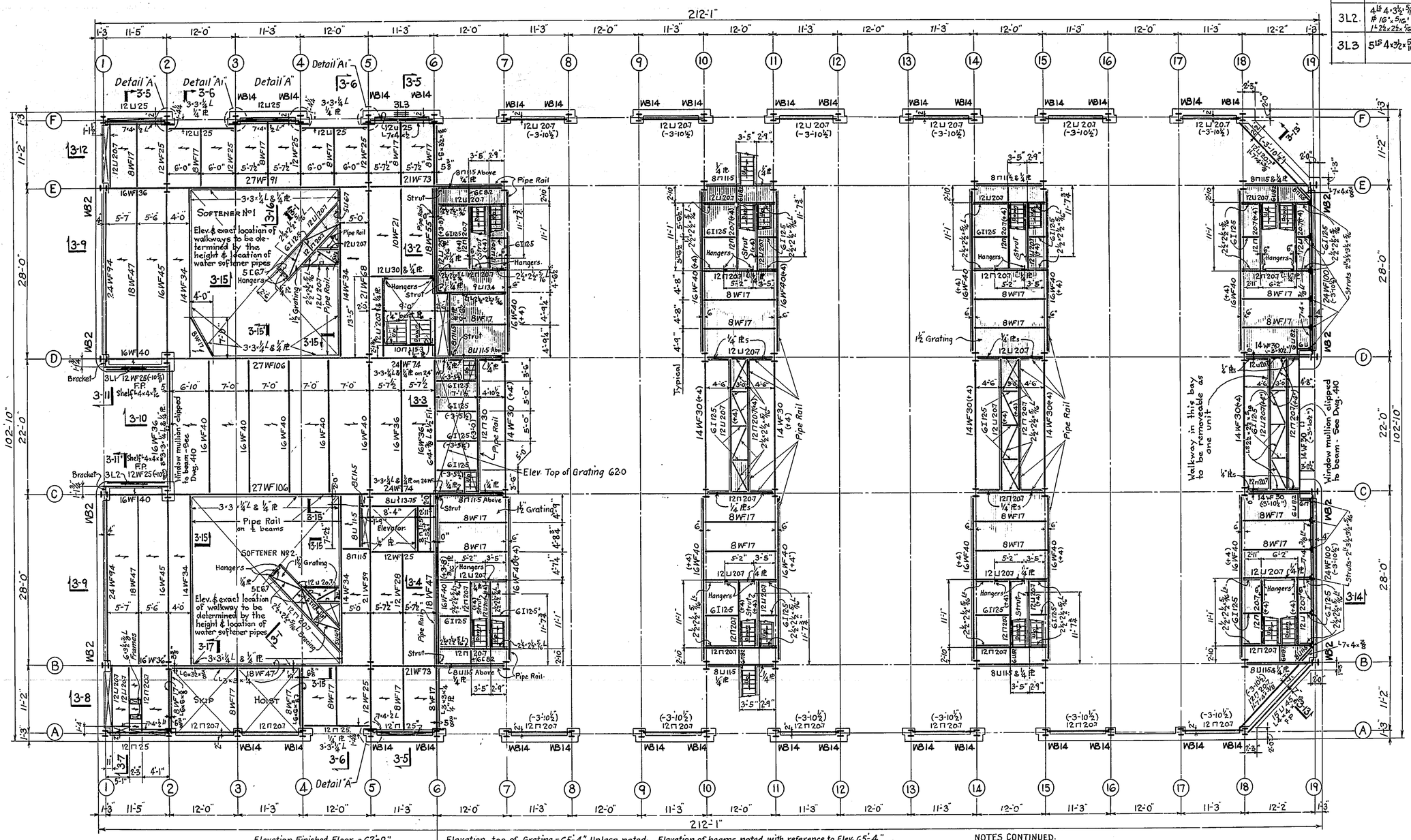
N. S. THOMPSON, CHIEF MECHANICAL ENGINEER
T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

RETURN TO ROOM 411

LINTEL SCHEDULE.			
MARK.	MATERIAL	LENGTH.	SECTION.
3L1.	3L 4×3½×5/16 1L 6×4×3/8	4'-6" 4'-6"	1'-0½" 2¼" 6"
3L2.	4Ls 4×3½×5/16 1 Pl 16"×5/16" 1L 2½×2½×5/16	3'-11" 3'-11" 3'-11"	1'-0½" Ctsk. 12" o.c. 9½" 8"
3L3	5Ls 4×3½×5/16	2'-0"	1'-0½" 9½" 8"



Elevation Finished Floor = 62'-0"
Elevation of beams noted with reference to Elev. 62'-0"
Elevation top of Grating = 65'-4", Unless noted. Elevation of beams noted with reference to Elev. 65'-4".

THIRD FLOOR FRAMING PLAN

Scale: 1/8 = 1'-0".

NOTES:

For Finished Floor Elevations see Plan.

Top of rough concrete slab 1½" below finished floor, unless otherwise noted.

Tops of all beams between Cols. 1 to 6, including all beams on Col. line 6 are 6½" below finished floor Elev. 62'-0" unless otherwise noted.

Top of all beams between Cols. 6 to 19 are 1½" below top of Grating Elev. 65'-4", unless otherwise noted.

Figures shown thus (-6½) or (+3'-8") indicate the distance from finished floor or top of grating to top of steel framing.

Rough concrete slab panels, indicated thus on Plan: ⟷, shall be a minimum of 6" thick, reinforced with ½"φ bars 8" o.c., unless otherwise shown or noted. For bending, etc, see typical detail on Drwg No 410.

Steel beams noted F.P. shall have typical fireproofing as shown on Drwg No 410.

NOTES CONTINUED.

Marks thus, WB1, WM1, etc, indicate special wind bracing connections; see details on Drwg No 409 and 409-1

Provide moment connections for each beam framing to columns, as noted on Drawing No. 409.

For Sections 3-1 to 3-17, inclusive see Drwg. No 403-1.

For General Notes, Typical Details, etc, see Drawing No. 410.

For Column Schedule, etc., see Drwg. No 408.

For Lintel Schedule see this Plan.

Modify location, size, etc., of structural framing to suit mechanical equipment, see General Note "A", on Drawing No 410.

Where size, detail, etc. of structural members, etc., are not otherwise noted, same data applies as given for other similar members, etc., where noted.

For steel stairs, grating walkways, pipe rails, etc., see Architectural Drwgs.

For details, dimensions, etc., not given, see Architectural and Mechanical Drwgs.

All hangers and struts to be 1L 3½×3½×5/16 unless otherwise shown or noted.

Grating to be 1½" unless otherwise noted.

See General Note "B", drwg. No. 410, for work req'd. by omission of Mechanical Equipment etc.

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DC0002ZZ 106

THIRD FLOOR FRAMING

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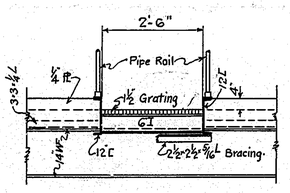
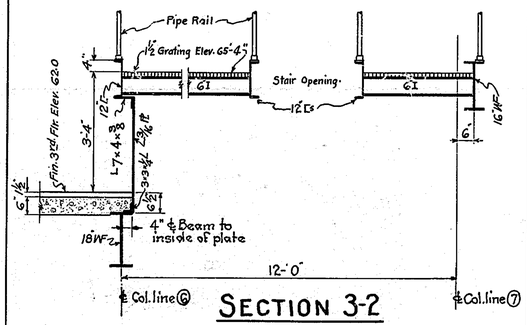
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY E.N. DATE 6/20/41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 403

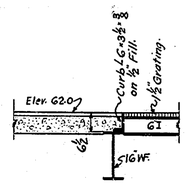
RETURN TO ROOM 411



SECTION 3-1



SECTION 3-2



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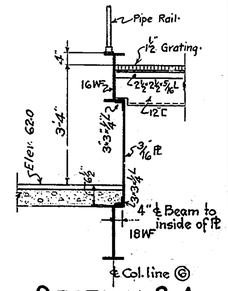
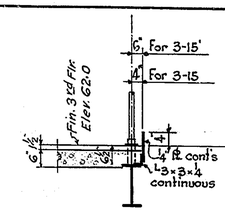
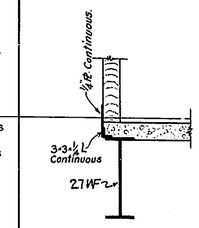


SECTION 3-4



SECTION 3-15
SECTION 3-15'



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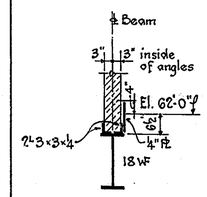
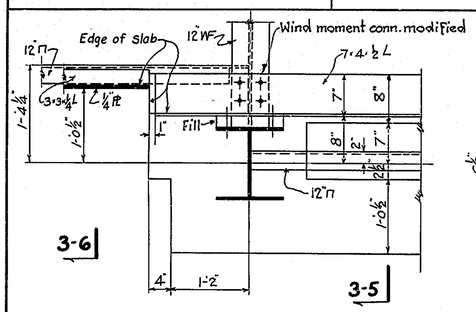
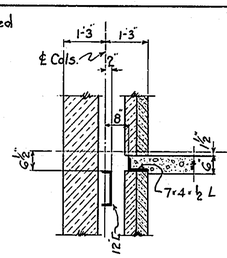


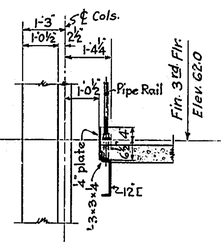
SECTION 3-17



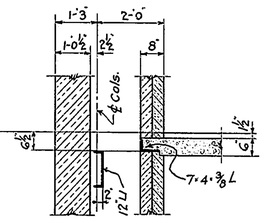
DETAIL "A"
Scale: 1"=1'-0"
DETAIL "A1" OPPOSITE HAND.



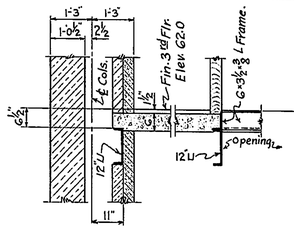
SECTION 3-5



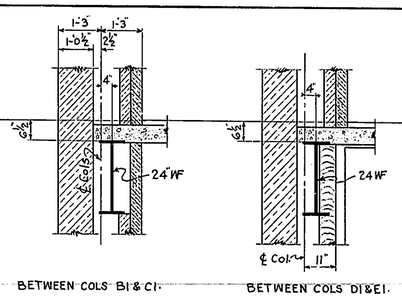
SECTION 3-6



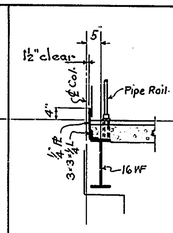
SECTION 3-7



SECTION 3-8



SECTION 3-9



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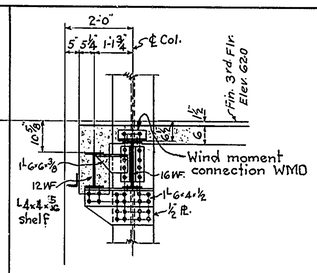
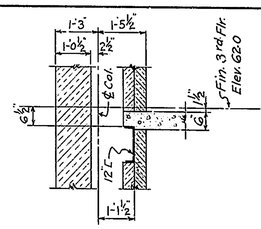
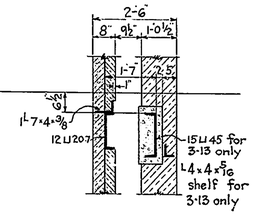


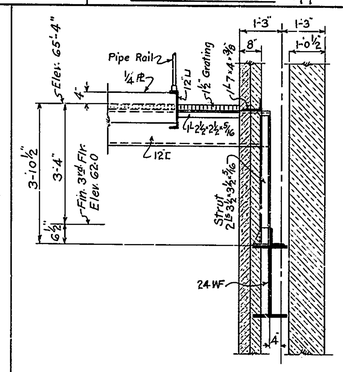
SECTION 3-11
SECTION 3-11' Opposite Hand



SECTION 3-12



SECTION 3-13
SECTION 3-13'



SECTION 3-14

NOTES:

Scale of sections ½" = 1'-0"
For location of sections see Dwg. 403
For General Notes, Typical Details, Etc. see Dwg. 410
For Column Schedule, Etc. see Dwg. 408
Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Dwg. 410
Where size, detail, etc. of structural members, etc. is not otherwise noted, same data applies as given for other similar members, etc. where noted.
For steel stairs, gratings, walkways, pipe rails, etc. see Architectural drawings.
For typical fireproofing of beams see Dwg. 410
For details of wind bracing not shown on these sections see Dwgs. 409 and 409-1

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THIRD FLOOR DETAILS

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: E.N. DATE: 6/20/41
CHECKED BY: A.P. DATE: 7-11-41
DRAWING No. 403-1

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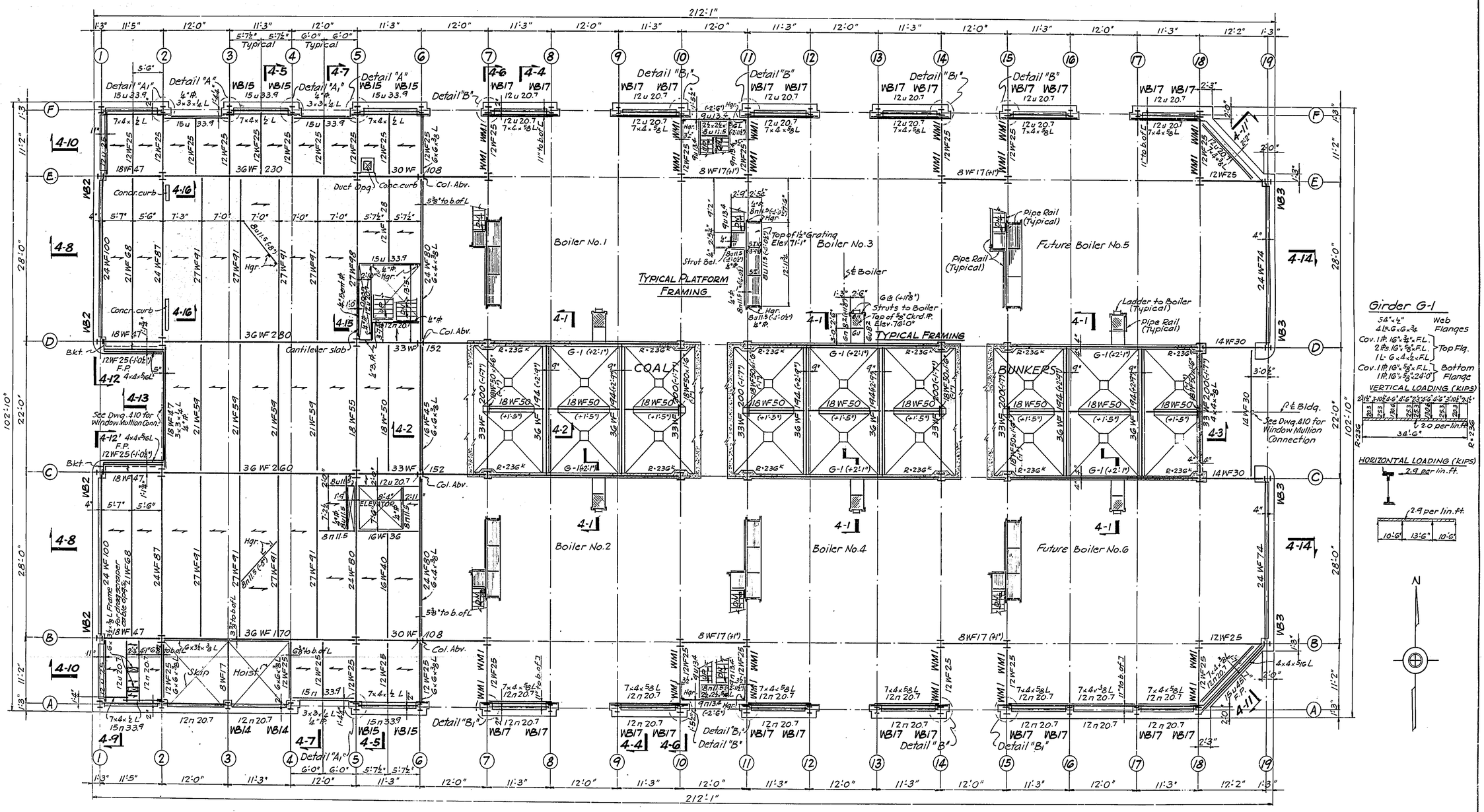

FOURTH FLOOR FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES

Finished Fourth Floor at elevation 75'-0".
Top of rough concrete slab 1½" below finished floor, unless otherwise noted.
Top of structural steel 6½" below finished floor, unless otherwise noted.
Figures shown thus: (-1'-0½") or (+2'-1") etc. indicate the distance from finished floor to top of steel framing.
Rough concrete slab panels, indicated thus on plan ——— shall be a minimum of 6" thick reinforced with ½" ϕ bars 6" o.c. unless otherwise shown or noted. For bar bending, etc. see Typical Details on Drwg. No. 410
Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. No. 410.
Marks thus: WB1, WM1, etc. indicate special Wind Bracing connections, see details on Drwgs. No. 409 and No. 409-1
Provide moment connection for each beam framing to columns, as noted on Drwg. No. 409.
All hangers and struts are 3½ × 3½ × 5/16 L, unless otherwise noted.

NOTES CONTINUED

For Sections 4-1 to 4-3 inclusive, see Drwg. No. 404-2; for Sections 4-4 to 4-14 inclusive and Details see Drwg. No. 404-3.
For General Notes, Typical Details, Etc., see Drwg. No. 410.
For Column Schedule, Etc., see Drwg. No. 408.
Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. No. 410.
Where size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members, etc. where noted.
For steel stairs, grating walkways, pipe rails, etc. see Architectural Drwgs.
For details, dimensions, etc. not given see Architectural & Mechanical Drwgs.
See General Note "B", drwg. No. 410, for work reqd. by omission of Mechanical Equipment etc.

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FOURTH FLOOR FRAMING

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Harris DATE 6-20-41
CHECKED BY A.S. DATE 7-11-41
DRAWING No. 404

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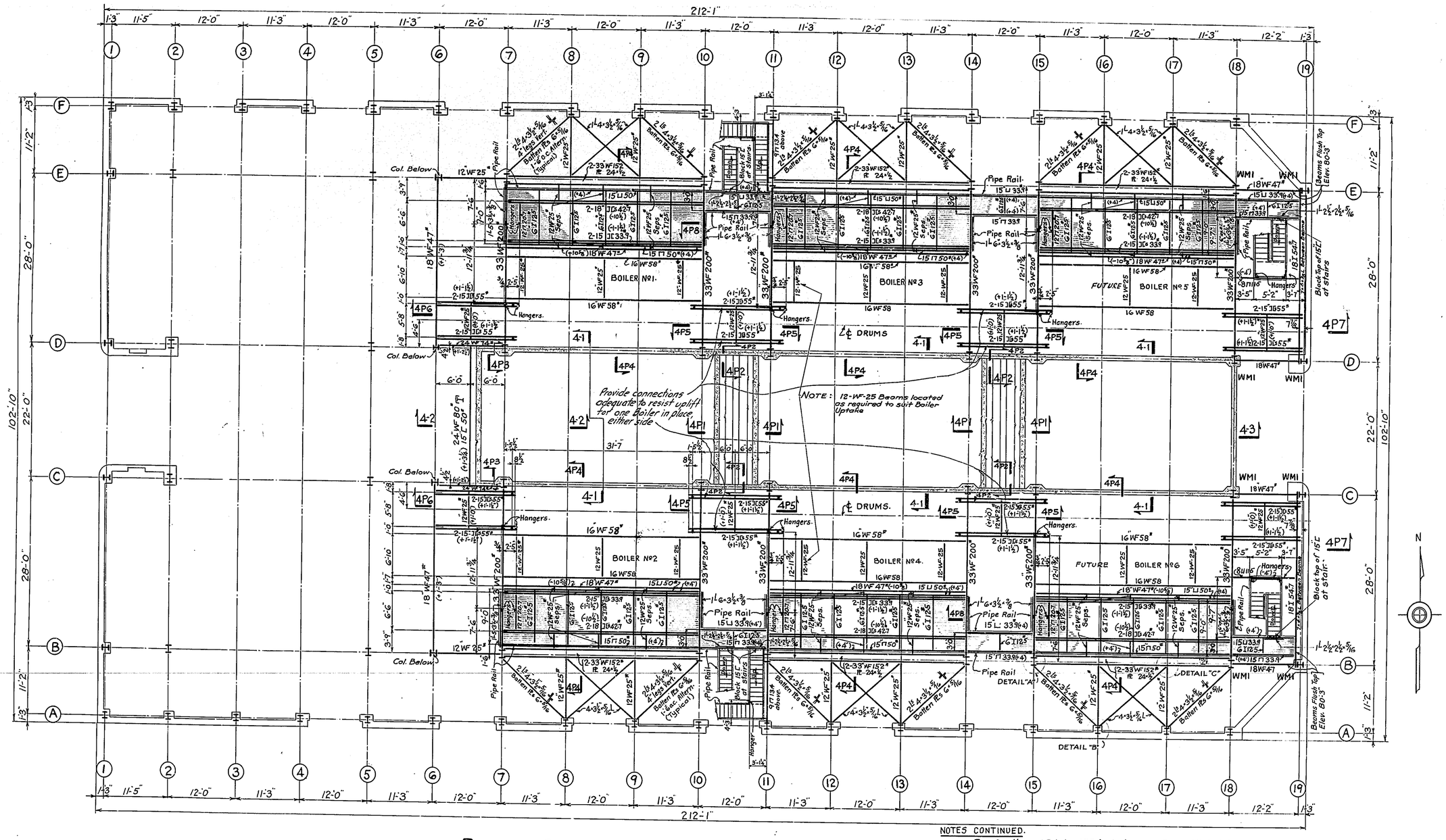

BOILER SUSPENSION AND WALKWAY FRAMING PLAN.

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

NOTES:

Top of walkway gratings at Elevation 80'-4½"

Top of all beams are 1½" below top of Grating Elevation 80'-4½", unless otherwise noted.

Figures shown thus (-10½") or (+4") indicate the distance from top of grating elevation 80'-4½", to top of steel framing.

Marks thus, WB1, WM1, etc., indicates special wind bracing connections; see details on Drwg. Nº 409 and 409-1.

Provide moment connections for each beam framing to columns, as noted on Drwg. Nº 409.

For Sections 4-1, 4-2, 4-3, 4P1, 4P2 & 4P3 see Drwg. Nº 404-2

NOTES CONTINUED.

For Sections 4P4 to 4P7 inclusive see Drwg Nº 404-3.

For General Notes, Typical Details, etc, see Drwg Nº 410.

For Column Schedule, etc., see Drwg Nº 408.

Modify location, size, etc., of structural framing to suit mechanical equipment, see General Note "A" on Drwg Nº 410.

Where size, detail, etc., of structural members, etc., are not otherwise noted, same data applies as given for other similar members, etc., where noted.

For steel stairs, grating walkways, pipe rails, etc., see Architectural Drwgs.

For details, dimensions, etc., not given, see Architectural and Mechanical Drawings.

All Hangers and struts to be 1L-3½×3½×5/16 unless otherwise shown or noted.

For Details "A", "B", and "C" see Dwg. No. 404-3

See General Note "B", drwg. No. 410, for work reqd. by omission of Mechanical Equipment etc.

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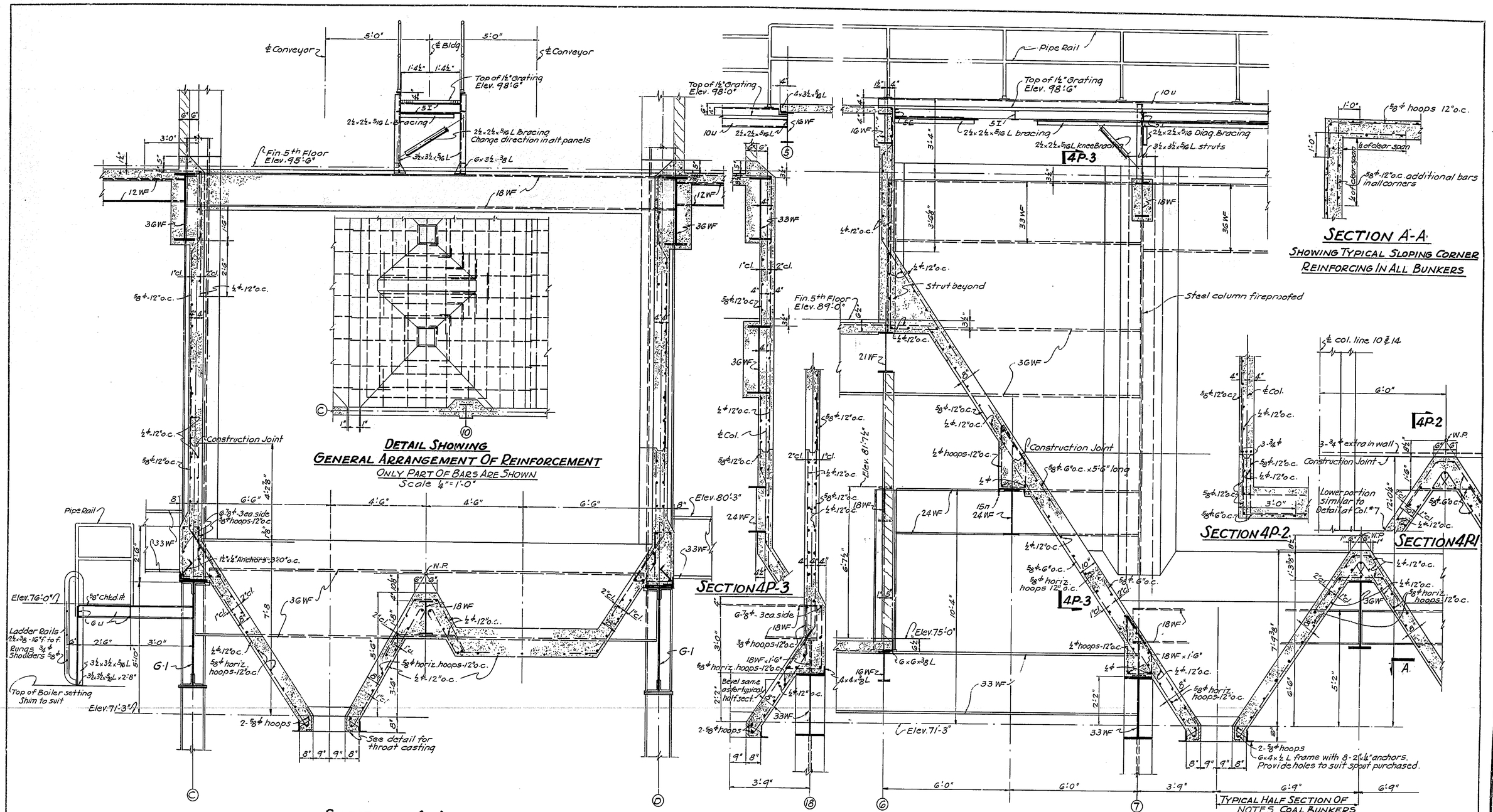
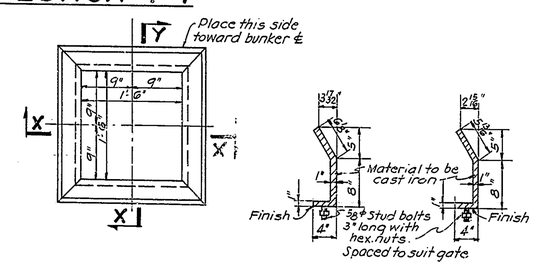
BOILER SUSPENSION & WALKWAY FMG.

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY E.N. DATE 6/20/41
CHECKED BY A.R. DATE 7-11-41
DRAWING No. 404-1

RETURN TO ROOM 411

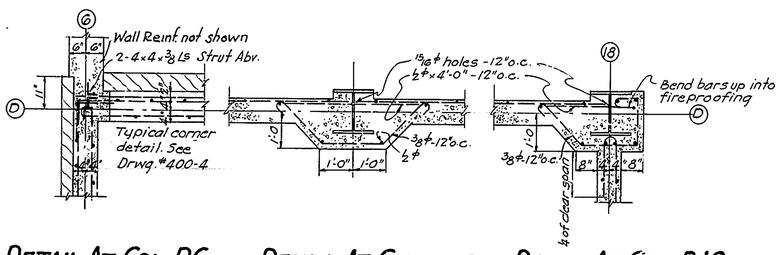




PLAN OF THROAT CASTING
Scale 1"=1'-0"

SECT. X
Scale 1"=1'-0"

SECT. Y
Scale 1"=1'-0"



DETAIL AT COL. D6
C6 OPPOSITE HAND

DETAIL AT COLUMNS
D-7-10-11-14-15, C7-10-11-14-15

DETAIL AT COL. D18
C18 OPPOSITE HAND

Scale of all sections and details ½"=1'-0" unless otherwise noted.

For General Notes, Typical Details, etc. see Dwg. #410.

For Wind Bracing Details not shown on these sections see Drwgs. No. 409 and 409-1.

For details and dimensions not given see Architectural and Mechanical Drwgs.

For location, extent, etc. of sections and details see Drwgs. No. 404, 404-1, 405.

See specifications for surface hardeners for Coal Bunkers, etc.

4TH FLOOR DETAILS, ETC.

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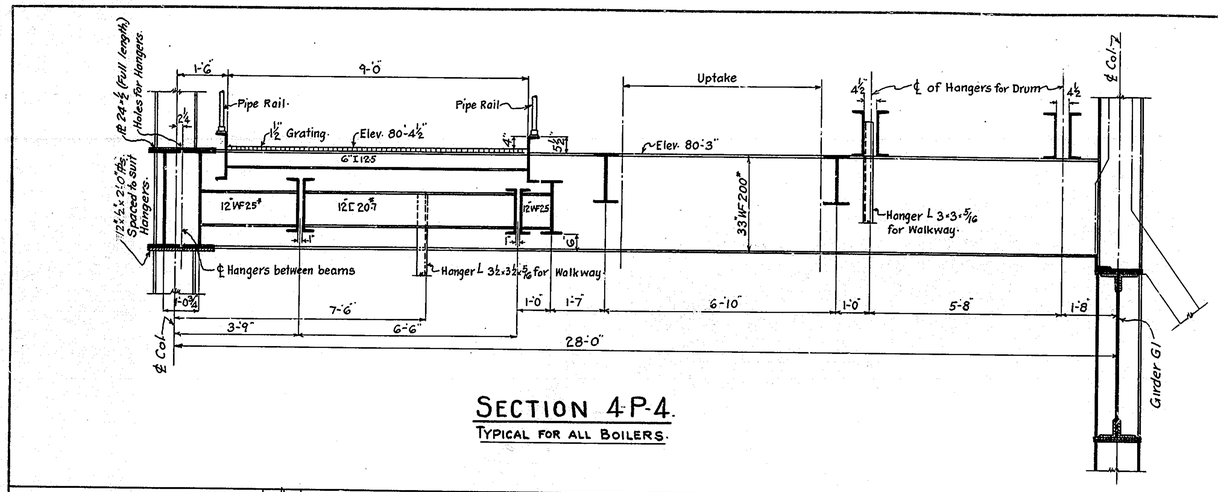
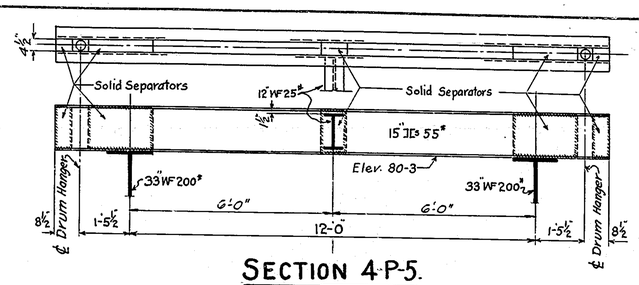
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Harris DATE 6-20-41
CHECKED BY A.R., E.A.P. DATE 7-11-41
DRAWING No. 404-2

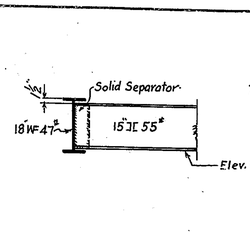
P0000277 RETURN TO ROOM 411



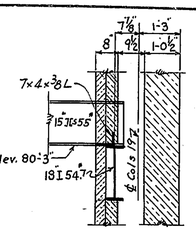
SECTION 4-P-4.
TYPICAL FOR ALL BOILERS.



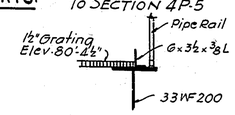
SECTION 4-P-5.
TYPICAL DRUM HANGAR SUPPORTS.



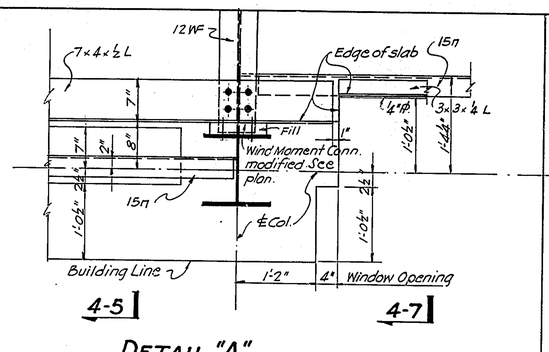
SECTION 4-P-6
PART NOT SHOWN SIMILAR TO SECTION 4-P-5



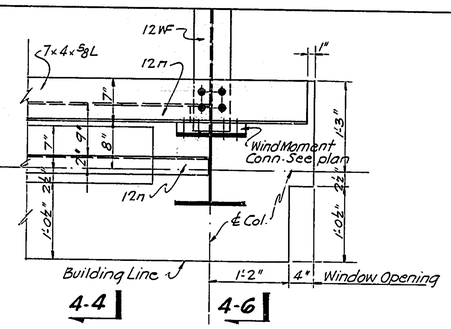
SECTION 4-P-7.
PART NOT SHOWN SIMILAR TO SECT. 4-P-5



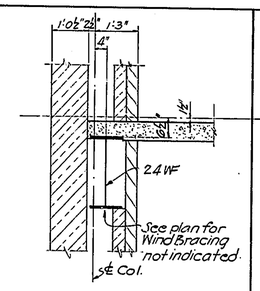
SECTION 4-P-8



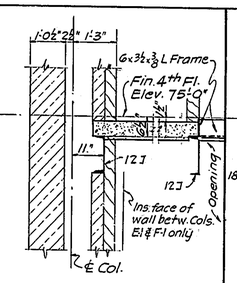
DETAIL "A"
Scale 1"=1'-0"
DETAIL "A1" OPPOSITE HAND
TYPICAL BETW. COLS. A2 & A6, F1 & F6; SEE PLAN FOR EXCEPTIONS



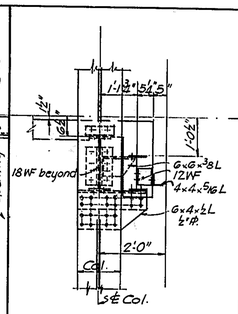
DETAIL "B"
Scale 1"=1'-0"
DETAIL "B1" OPPOSITE HAND
TYPICAL BETW. COLS. A7 & A18, F7 & F18; SEE PLAN FOR EXCEPTIONS



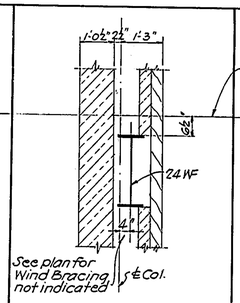
SECTION 4-8



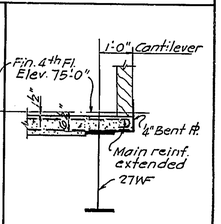
SECTION 4-10



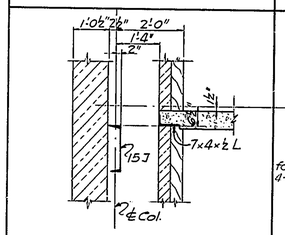
SECTION 4-12
SECTION 4-12' OPP. HAND



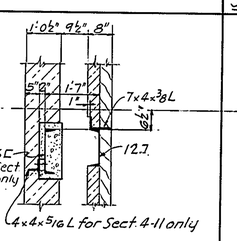
SECTION 4-14



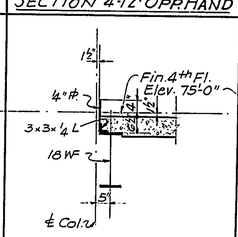
SECTION 4-15



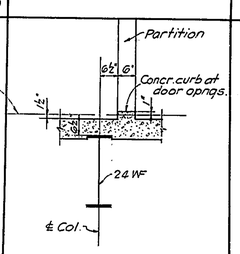
SECTION 4-9



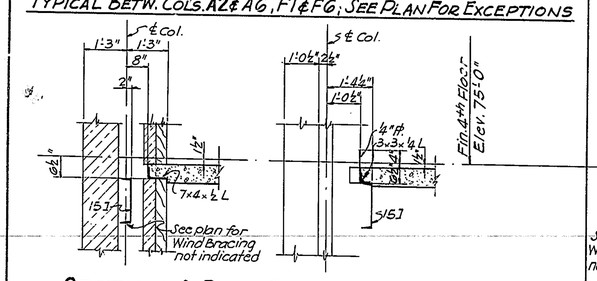
SECTION 4-11
SECTION 4-11' SIMILAR



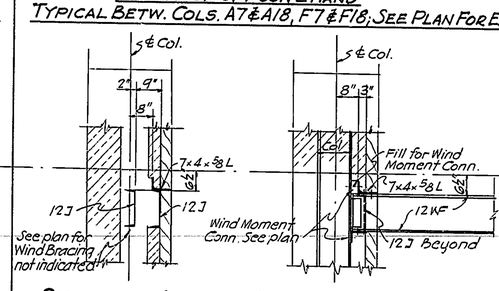
SECTION 4-13



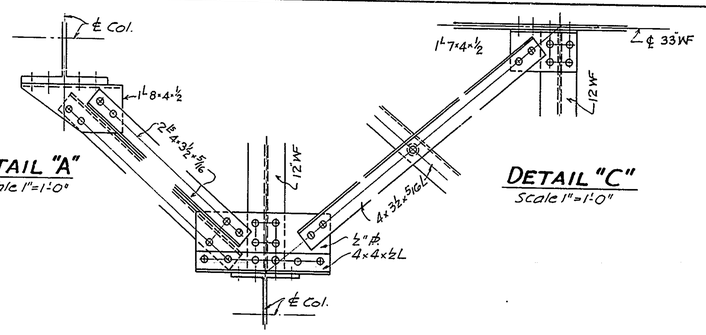
SECTION 4-16



SECTION 4-5 SECTION 4-7



SECTION 4-4 SECTION 4-6



DETAIL "A"
Scale 1"=1'-0"
DETAIL "C"
Scale 1"=1'-0"
DETAIL "B"
Scale 1"=1'-0"
DETAILS "A", "B" AND "C" ARE TYPICAL FOR DRWG. NO. 404-1

NOTES
Scale of all sections and details ½"=1'-0" unless otherwise noted.
For General Notes, Typical Details, etc. see Drwg. No. 410.
For Wind Bracing Details not shown on these sections see Drwgs. No. 409 and 409-1.
For details and dimensions not given see Architectural and Mechanical Drwgs.
For location, extent, etc. of sections and details see Drwgs. No. 404, 404-1.

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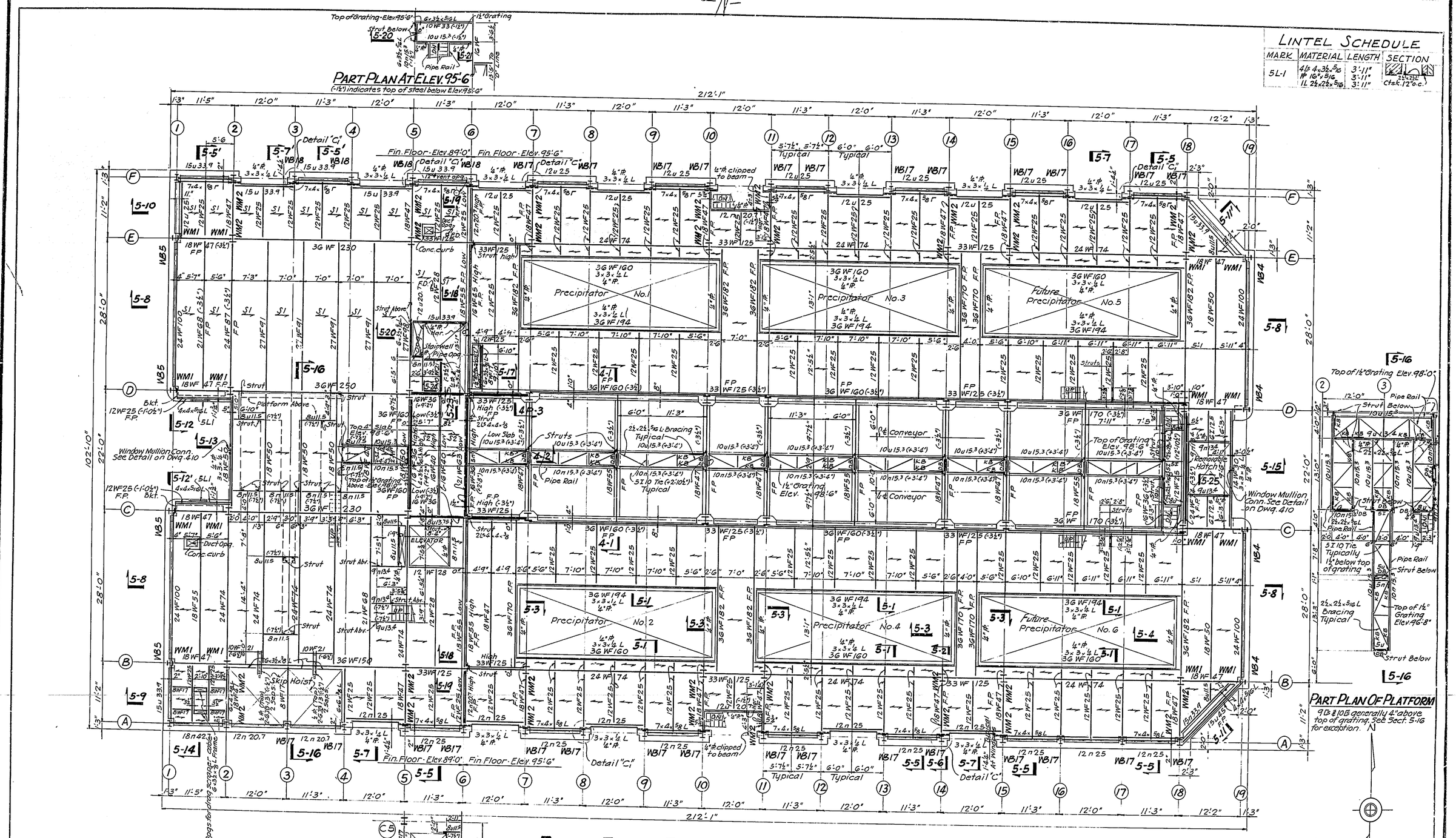
T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

FOURTH FLOOR DETAILS, ETC.

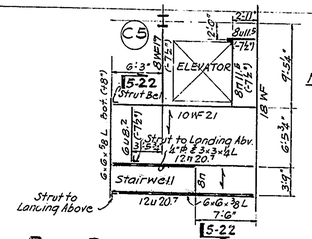
PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: F.N. A.A.H. DATE: 6/20/41
CHECKED BY: A.R. DATE: 7-11-41
DRAWING No. 404-3

RETURN TO ROOM 411



PART PLAN AT ELEV. 95'-6"
(-1½") indicates top of steel below Elev. 95'-6"

PART PLAN OF PLATFORM
9 [& 10 [generally 4" above top of grating. See Sect. 5-16 for exception.



PART PLAN AT ELEV. 95'-6"
Top of steel 6½" below Elev. 95'-6" unless noted

LINTEL SCHEDULE

MARK	MATERIAL	LENGTH	SECTION
5L-1	4 Ls 4x3½x5/16	3'-11"	2½x2½L Ctsk. 12" o.c.
	℞ 16"x5/16	3'-11"	
	1L 2½x2½x5/16	3'-11"	

FIFTH FLOOR FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES

Finished floor elevation 89'-0" or 95'-6" See plan.

At change in floor elevation, beams marked "low" refer to 89'-0" level & beams marked "high" refer to 95'-6" level.

Top of rough concrete slab 1½" below finished floor, unless otherwise noted.

Top of structural steel 6½" below finished floor, unless otherwise noted.

Figures shown thus: (-6") or (+6") etc. indicate the distance from finished floor to top of steel framing.

Rough concrete slab panels, indicated thus on plan: ⟵ shall be a minimum of 6" thick reinforced with ½φ bars-8" o.c. between column lines ① and ⑥, and shall be a minimum of 6" thick reinforced with ½φ-8" o.c. continuous straight top and bottom between column lines ⑥ and ⑲. Slab panels indicated thus: S1 shall be a minimum of 6" thick reinforced with ½φ-6" o.c. Slab panels indicated thus: S2 shall be a minimum of 4" thick reinforced with ½φ-8" o.c. For bar bending, etc. see Typical Details on Drwg. No. 410.

Marks thus: WB1, WM1, etc., indicate special Wind Bracing connections, see details on Drwgs. No. 409 and No. 409-1.

Provide moment connection for each beam framing to columns, as noted on Drwg. No. 409.

Notes - cont'd.

See General Note "B", drwg. No. 410, for work req'd. by omission of Mechanical Equipment etc.

For Sections 4-1, 4-2 & 4P-3 see Drwg. No. 404-2; for Section 5-16 see Drwg. No. 407-1 and for other Details and Sections see Drwg. No. 405-1.

For General Notes, Typical Details, Etc., see Drwg. No. 410.

For Column Schedule, Etc., see Drwg. No. 408.

For Lintel Schedule see this plan.

Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. No. 410.

Where size, detail, etc. of structural members, etc., are not otherwise noted, same data applies as given for other similar members, etc. where noted.

For steel stairs, grating walkways, pipe rails, etc. see Architectural Dwgs.

For details, dimensions, etc. not given see Architectural & Mechanical Dwgs.

All hangers and struts are 3½x3½x5/16 L, unless otherwise noted.

Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. No. 410 unless otherwise noted or shown.

KB indicates knee bracing, DB indicates diagonal bracing.

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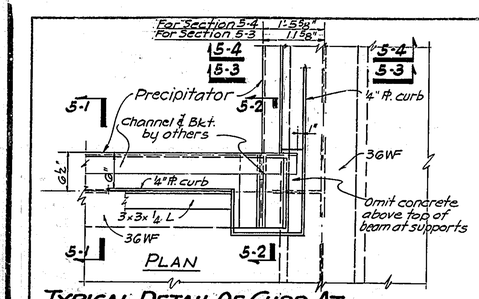
N. S. THOMPSON, CHIEF MECHANICAL ENGINEER
T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

FIFTH FLOOR FRAMING

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Rozman Harris DATE 6-20-41
CHECKED BY E.A.D. DATE 7-11-41
DRAWING No. 405

RETURN TO ROOM 411

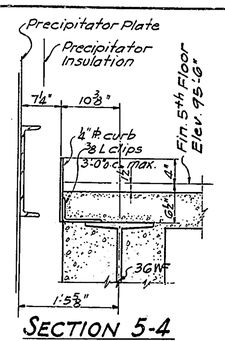


TYPICAL DETAIL OF CURB AT PRECIPITATOR SUPPORTS

Scale 1"=1'-0"

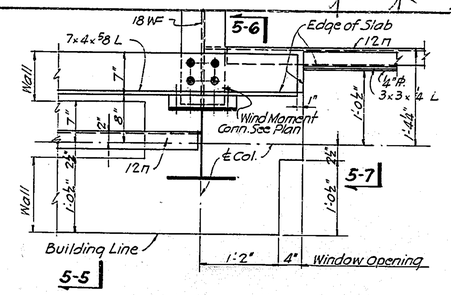
DETAIL OF CORNER SHOWN

DETAIL AT INTERMEDIATE SUPPORTS SIMILAR



SECTION 5-4

Scale 1"=1'-0"

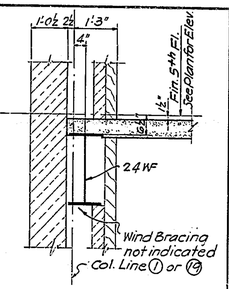


DETAIL "C"

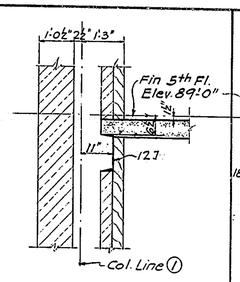
Scale 1"=1'-0"

DETAIL "C.1" SIMILAR

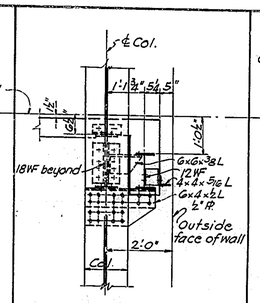
TYPICAL BETWEEN COLS. A4 & A18, F1 & F18. SEE PLAN FOR EXCEPTIONS



SECTION 5-8

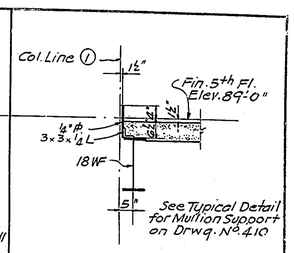


SECTION 5-10

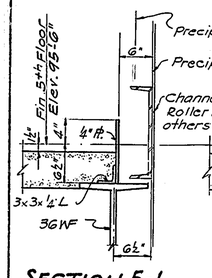


SECTION 5-12

SECTION 5-12' OPP. HAND

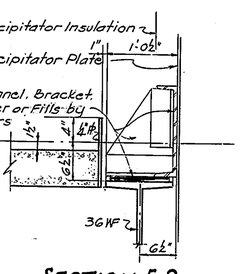


SECTION 5-13



SECTION 5-1

Scale 1"=1'-0"



SECTION 5-2

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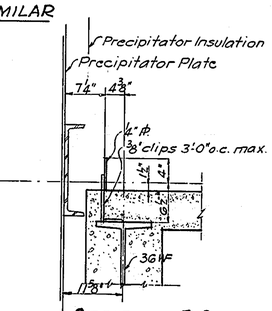

SECTION 5-3

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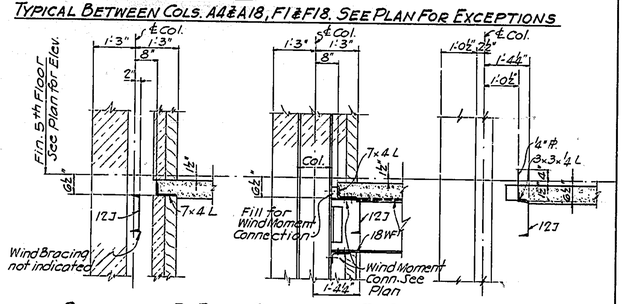


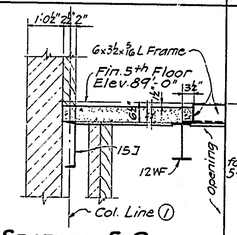
SECTION 5-5

SECTION 5-5' SIMILAR

SECTION 5-6

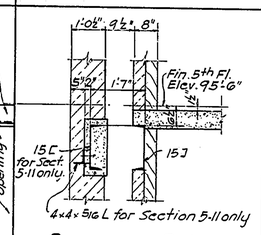
SECTION 5-7

SECTION 5-7' SIMILAR



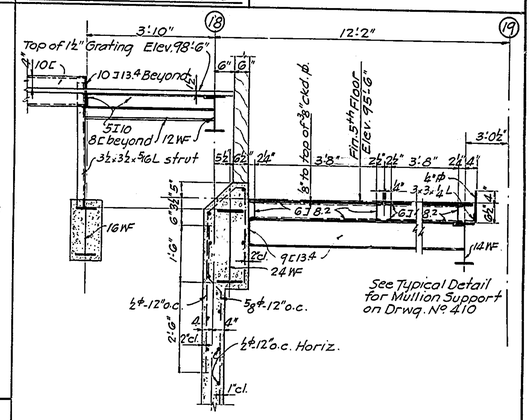
SECTION 5-9

SECTION 5-14 SIMILAR

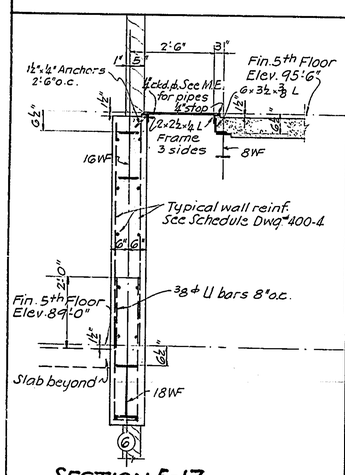


SECTION 5-11

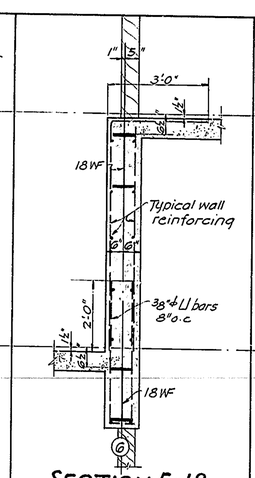
SECTION 5-11' SIMILAR



SECTION 5-15

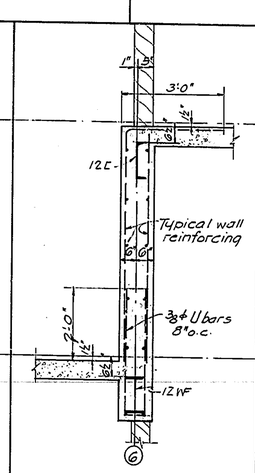


SECTION 5-17

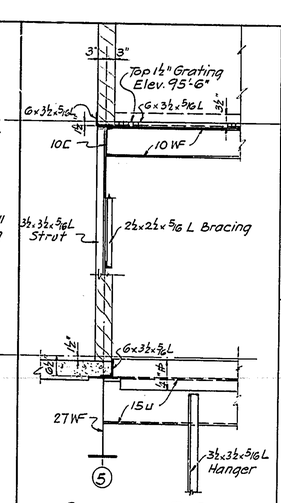


SECTION 5-18

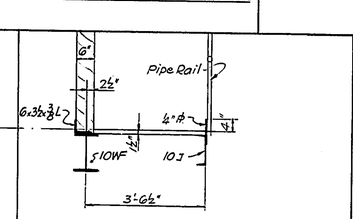
SECTION 5-18' SIMILAR



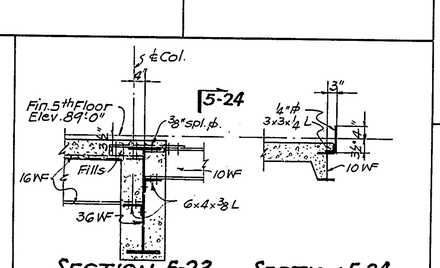
SECTION 5-19



SECTION 5-20

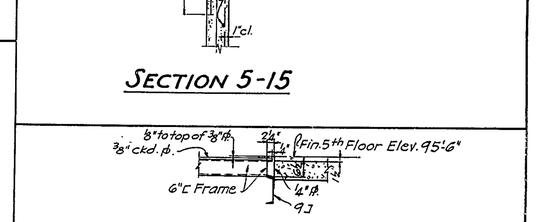


SECTION 5-21

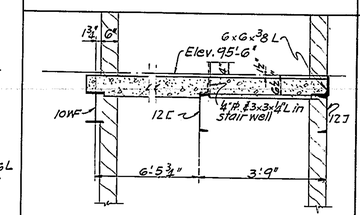


SECTION 5-23

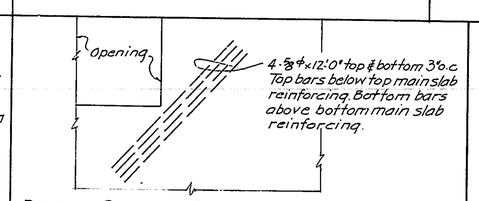
SECTION 5-24



SECTION 5-25



SECTION 5-22



DETAIL SHOWING DIAGONAL BARS IN SLAB AT CORNERS OF PRECIPITATORS AND STAIRWELLS ADJACENT TO EXTERIOR WALLS BETWEEN COLUMNS (10) AND (11)

NOTES

Scale of all sections and details ½"=1'-0" unless otherwise noted.
For General Notes, Typical Details, etc. see Drwg. No. 410.
For Wind Bracing Details not shown on these sections see Dwgs. No. 409 and 409-1.
For details and dimensions not given see Architectural and Mechanical Drwgs.
For location, extent, etc. of sections and details see Drwg. No. 405.

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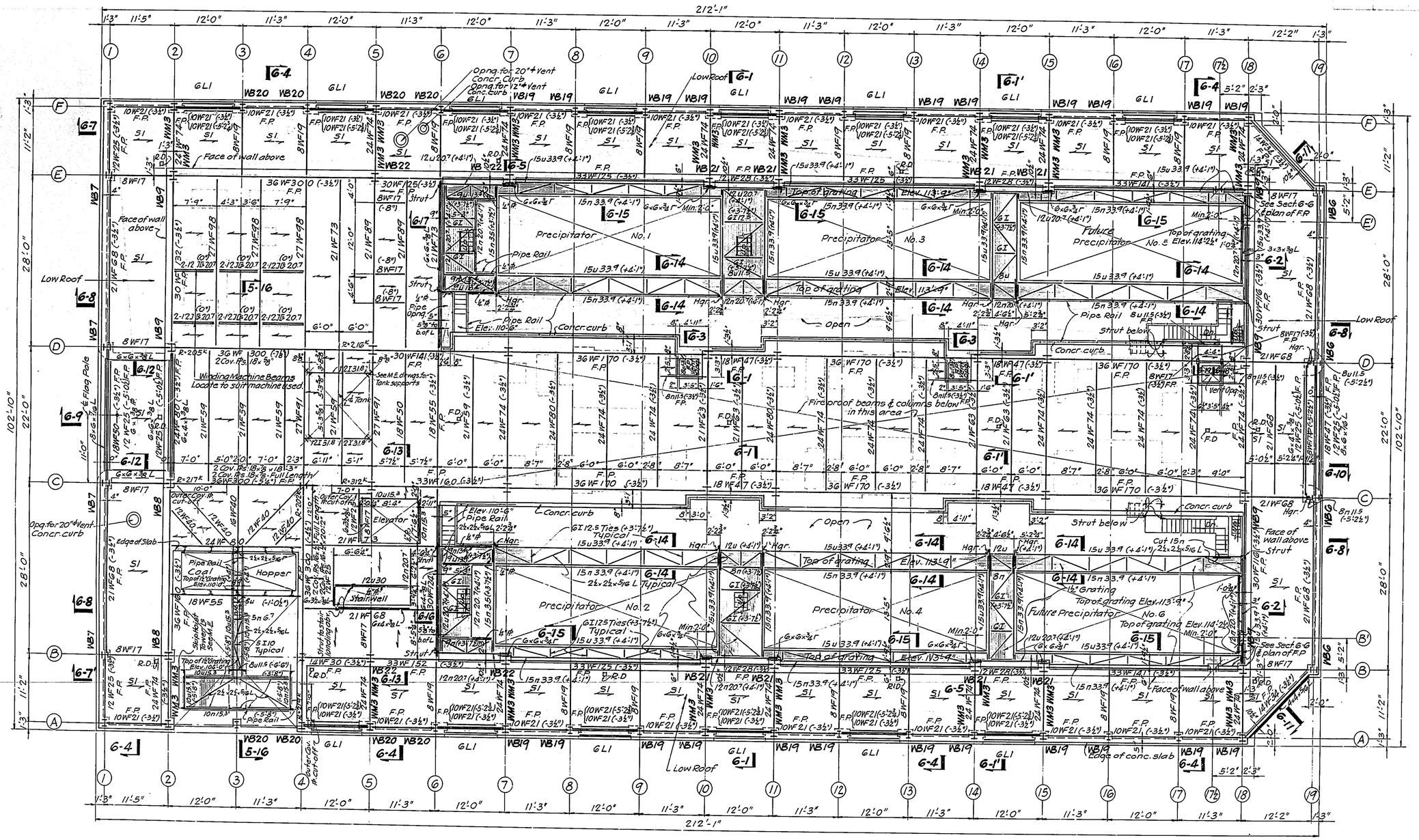
FIFTH FLOOR DETAILS

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: Harris DATE: 6-20-41
CHECKED BY: E.A.D. DATE: 7-11-41
DRAWING No. 405-1

RETURN TO ROOM 413

LINTEL SCHEDULE

MARK	MATERIAL	LENGTH	SECTION
GL-1	2Ls 8×6×7/16 Pl. 30"×5/16"	9'-10" 9'-10"	Ctsk. 12" o.c.



SIXTH FLOOR FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES

Elevation of Finished Low Roof varies. See Architect's Drwgs. for elevation.
Finished Sixth Floor at elevation 110'-0".
Top of rough concrete slab 1½" below finished floor, unless otherwise noted.
Top of structural steel 6½" below finished floor, unless otherwise noted.
Figures shown thus: (-3½") or (+4'-1") etc. indicate the distance from finished Sixth Floor to top of steel framing.
Rough concrete slab panels, indicated thus on plan ⟷ shall be a minimum of 6" thick, reinforced with ½⌀ bars - 6" o.c., except slab panels indicated thus S1 shall be a minimum of 6" thick, reinforced with ½⌀ - 8" o.c. For bar bending, etc. see Typical Details on Drwg. No. 410.
Top of grating walkways at elevations noted on plan.
Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. No. 410.
Marks thus: WB1, WM1, etc. indicate special Wind Bracing connection, see details on Drwgs. No. 409 and No. 409-1.
Provide moment connection for each beam framing to columns as noted on Drwg. No. 409.

NOTES CONTINUED

For Sections 6-1 to 6-15 inclusive see Drwg. No. 406-2. For Sections 5-16, 6-16 and 6-17 see Drwg. No. 407-1.
For Column Schedule, Etc., see Drwg. No. 408.
For General Notes, Typical Details, Etc., see Drwg. No. 410.
For Lintel Schedule see this plan.
Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. No. 410.
Where size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members, etc. where noted.
For steel stairs, grating walkways, pipe rails, etc., see Architectural Dwgs.
For details, dimensions, etc., not given see Architectural & Mechanical Dwgs.
All hangers and struts are 3½×3½×5/16 unless otherwise noted.
Columns shown on plan thus: 1/4 indicate bottom of column, see Dwg. #408.
For detail of concrete curb at base of interior steel columns, see Dwg. #410.
See General Note "B", drwg. No. 410, for work reqd. by omission of Mechanical Equipment etc.

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T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

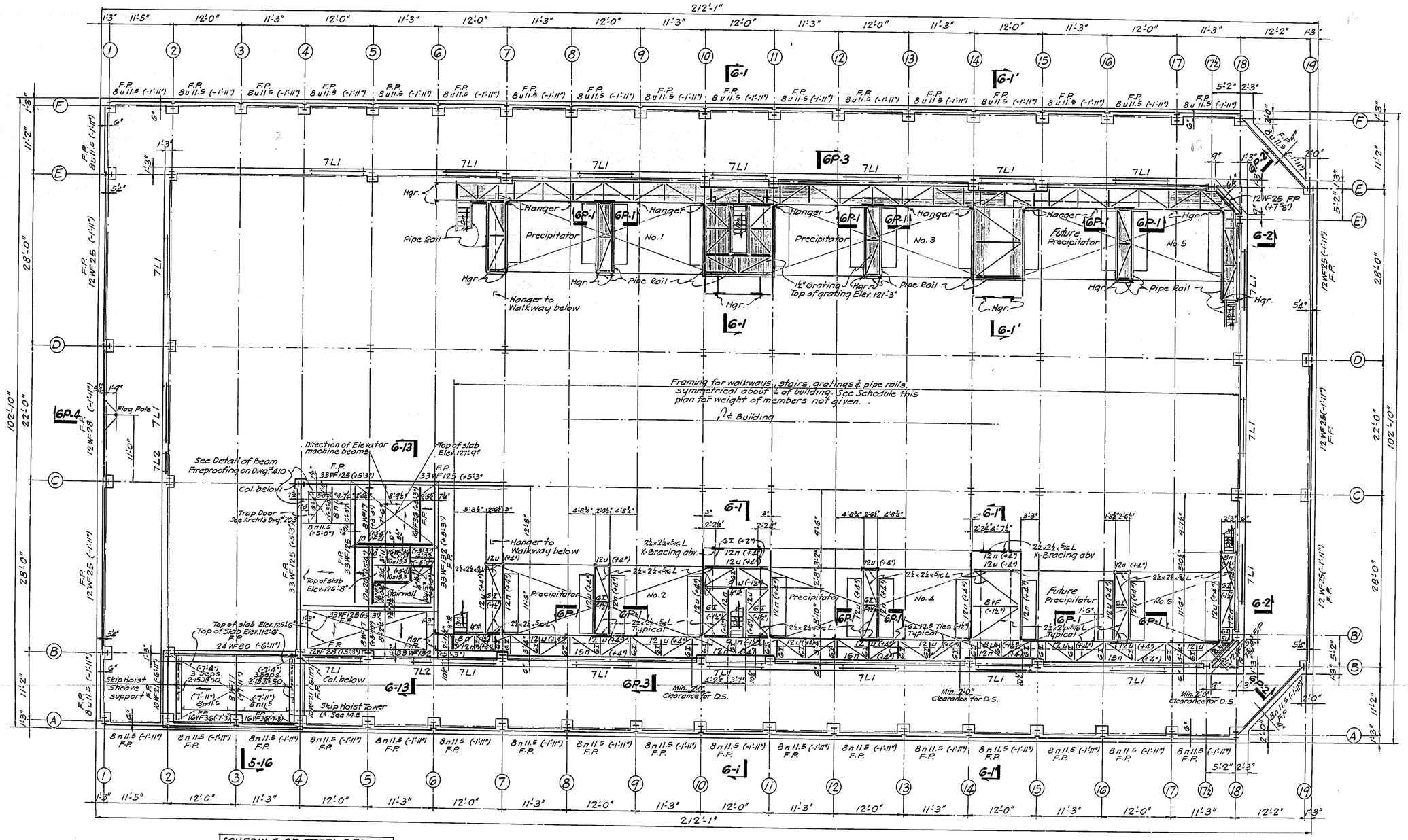
SIXTH FLOOR FRAMING

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Harris-Dubin DATE 6-20-41
CHECKED BY E.A.D. DATE 7-11-41
DRAWING No. 406

RETURN TO ROOM 411

LINTEL SCHEDULE

MARK	MATERIAL	LENGTH	SECTION
7L-1	4Ls5x3½x7/16	10'-6"	
7L-2	4Ls4x3½x5/16	3'-7"	



SCHEDULE OF STEEL BEAMS NOTED ON PLAN WITHOUT WEIGHT	
5 C 6.7	6 I 12.5
8 C 11.5	8 WF 17
9 C 13.4	
12 C 20.7	
15 C 33.9	

PRECIPITATOR WALKWAY FRAMING PLAN AT ELEV. 121'-3"
ELEVATOR MACHINE FLOOR FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES

Top of grating walkway at elevation 121'-3".
Top of rough concrete slabs are as noted on plan.
Top of structural steel as noted or shown on plan.
Figures shown thus: (-1½") or (+4") etc. indicate the distance from top of grating walkway at elevation 121'-3" to top of steel framing.
Rough concrete slab panels indicated thus on plan: ⟵ shall be a minimum of 6" thick, reinforced with ½" bars 6" o.c. For bar bending, etc. see Typical Details on Drwg. No. 410.
Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. No. 410.
For Sections 6-1, 6-1', 6-2 and 6-13 see Drwg. No. 406-2. For Sections 6P-1 to 6P-4 inclusive and 5-16, see Drwg. No. 407-1.
Provide moment connection for each beam, framing into columns, that supports concrete slab. See notes on Drwg. No. 409.

NOTES CONTINUED

For General Notes, Typical Details, Etc. see Drwg. No. 410.
For Column Schedule, Etc. see Drwg. No. 408.
For Lintel Schedule see this plan.
Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. No. 410.
Where size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members, etc. where noted.
For steel stairs, grating walkways, pipe rails, etc. see Architectural Drwgs.
For details, dimensions, etc. not given see Architectural & Mechanical Drwgs.
All hangers and struts are 3½ x 3½ x 5/16 L unless otherwise noted.
See General Note "B", drwg. No. 410, for work req'd. by omission of Mechanical Equipment etc.

ELEV. 121'-3" WALKWAY FRAMING, ETC.

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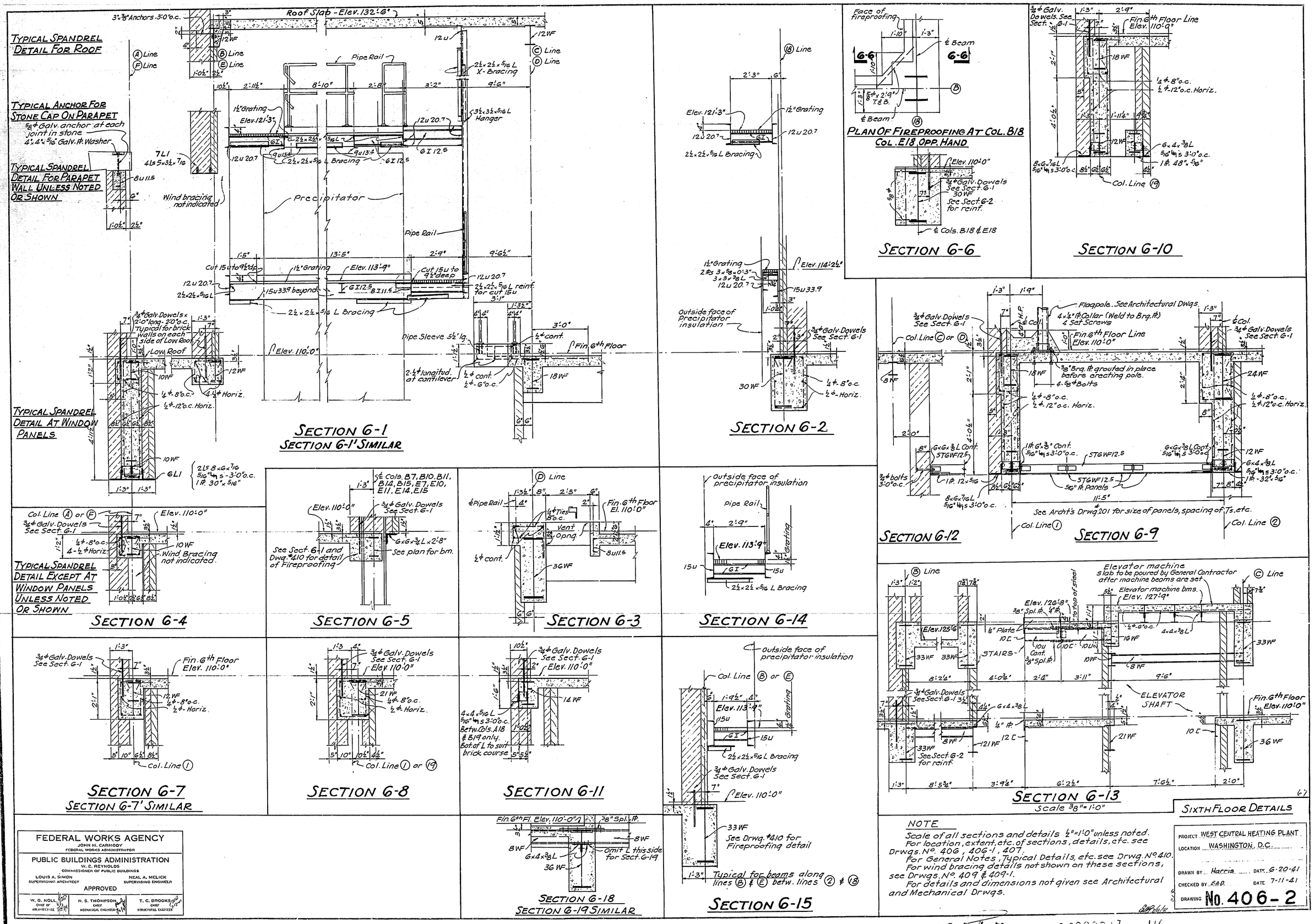
T. C. BROOKS, CHIEF OF STRUCTURAL ENGINEERING

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Harris, Dubin DATE 6-20-41
CHECKED BY E.A.D. DATE 7-11-41
DRAWING No. 406-1

U. S. GOVERNMENT PRINTING OFFICE 1937-74

REC'D RM 10 ROOM 411



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NOTE

Scale of all sections and details ½"=1'-0" unless noted.
For location, extent, etc. of sections, details, etc. see Drwgs. No. 406, 406-1, 407.
For General Notes, Typical Details, etc. see Drwg. No. 410.
For wind bracing details not shown on these sections, see Drwgs. No. 409 & 409-1.
For details and dimensions not given see Architectural and Mechanical Drwgs.

SIXTH FLOOR DETAILS

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: Harris — DATE: 6-20-41
CHECKED BY: E.A.D. — DATE: 7-11-41
DRAWING: No. 406-2

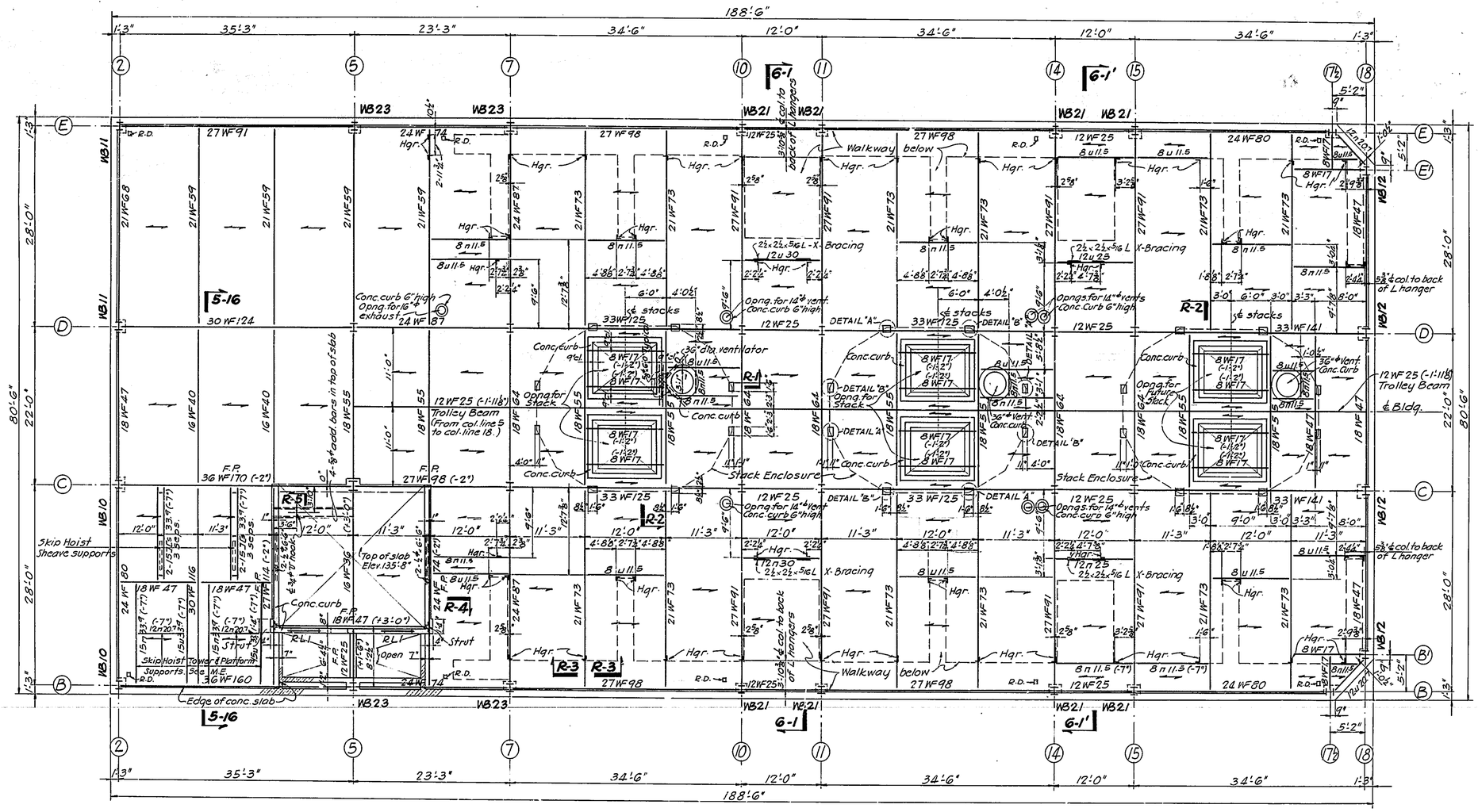
END

D 000021 116

RETURN TO ROOM 411

LINTEL SCHEDULE

MARK	MATERIAL	LENGTH	SECTION
RL-1	2 Ls 4 x 3½ x 5/16	5'-0"	



ROOF FRAMING PLAN

Scale 1/8" = 1'-0"

NOTES

Top of structural roof slab at elevation 132'-6", unless otherwise noted.

Top of structural steel 5" below top of structural slab at elevation 132'-6", unless otherwise noted.

Figures shown thus: (-7") or (+3'-0") etc. indicate the distance from top of structural slab at elevation 132'-6" to top of steel framing.

Structural concrete slab panels indicated thus on plan ⟶ shall be a minimum of 6" thick, reinforced with ½"-7" o.c. unless otherwise shown or noted. For bar bending, etc. see Typical Details on Drwg. No. 410.

Steel beams noted F.P. shall have typical fireproofing as shown on Drwg. No. 410.

Marks thus: WB1, WM1, etc. indicate special Wind Bracing connections, see details on Drwgs. No. 409 and No. 409-1.

Provide moment connection for each beam framing to columns. See notes on Drwg. No. 409.

All hangers and struts are 3½ x 3½ x 5/16 Ls unless otherwise noted.

NOTES CONTINUED

For Sections 6-1, 6-1' see Drwg. No. 406-2. For Sections 5-16, R-1 to R-5 inclusive and Details see Drwg. No. 407-1.

For General Notes, Typical Details, Etc., see Drwg. No. 410.

For Column Schedule, Etc., see Drwg. No. 408.

For Lintel Schedule see this plan.

Modify location, size, etc. of structural framing to suit mechanical equipment, see General Note "A" on Drwg. No. 410.

Where, size, detail, etc. of structural members, etc. are not otherwise noted, same data applies as given for other similar members, etc. where noted.

For details, dimensions, etc. not given see Architectural & Mechanical Dwgs.

Elevation of Finished roof varies, see Architectural Drwgs.

See General Note "B", drwg. No. 410, for work reqd. by omission of Mechanical Equipment, etc.

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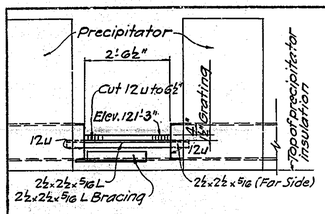
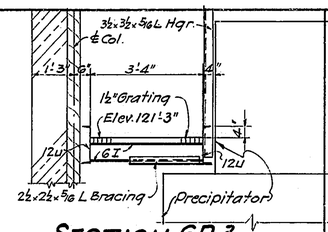
ROOF FRAMING PLAN

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON D.C.
DRAWN BY Harris, Dubin DATE 6-20-41
CHECKED BY E.A.D. DATE 7-11-41
DRAWING No. 407

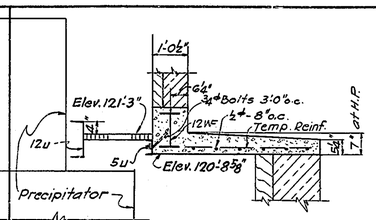
RETURN TO ROOM 411



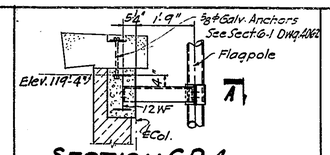
SECTION 6P-1



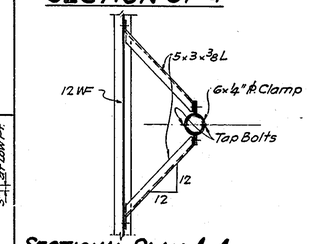
SECTION 6P-3



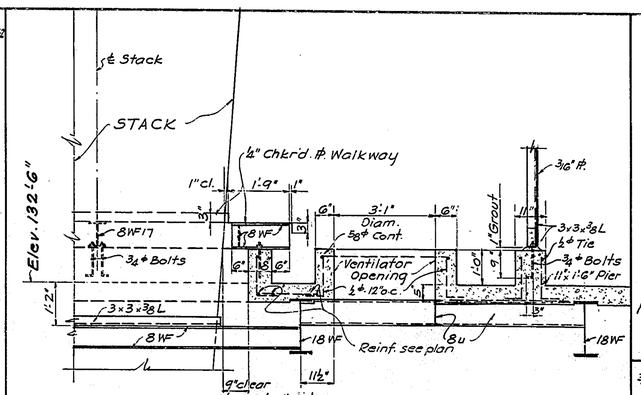
SECTION 6P-2



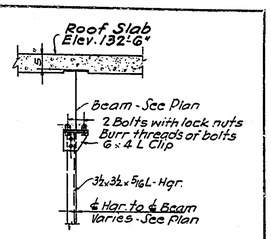
SECTION 6P-4



SECTIONAL PLAN A-A

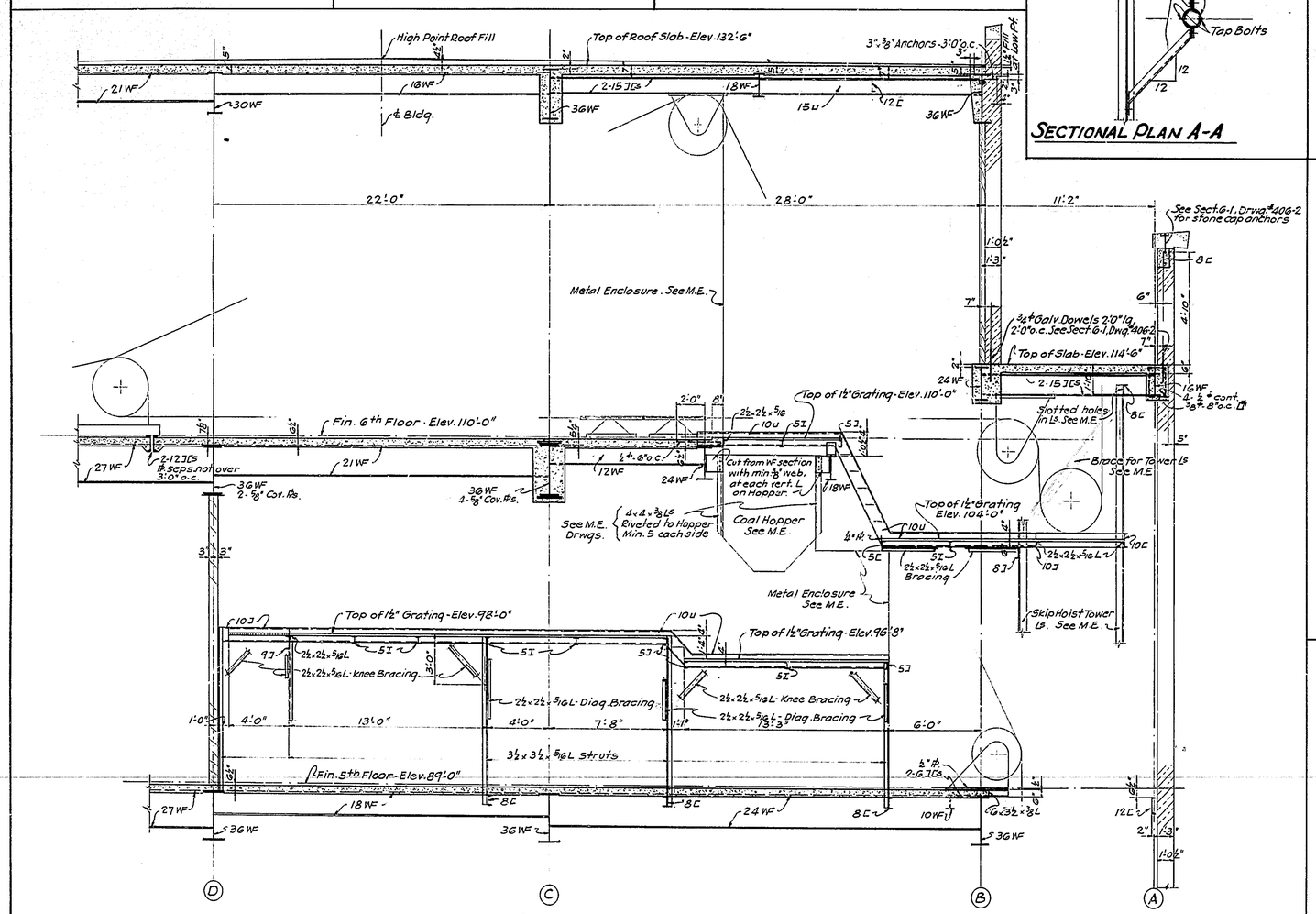


SECTION R-1



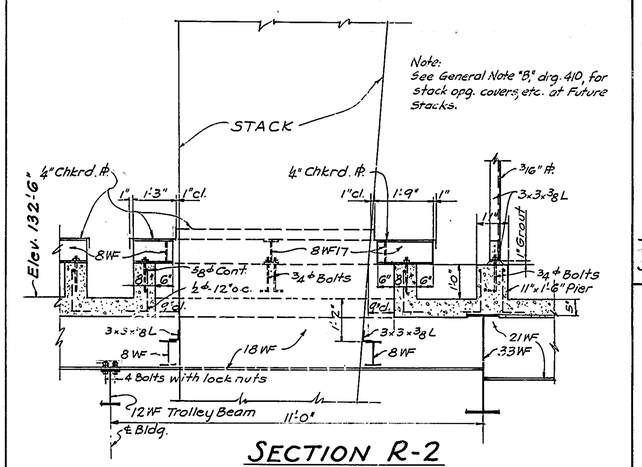
SECTION R-3

TYPICAL DETAIL FOR HANGERS FRAMED TO UNDERSIDE OF ROOF BEAMS

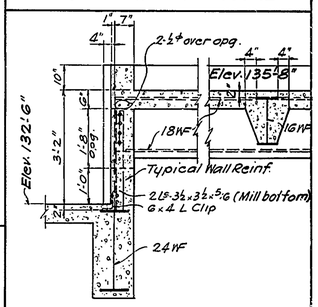


SECTION 5-16

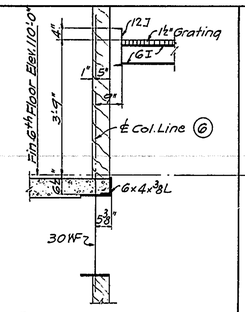
Scale ¼" = 1'-0"



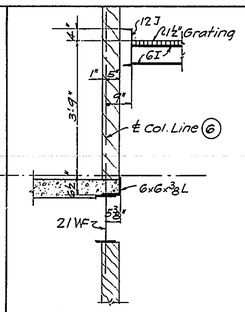
SECTION R-2



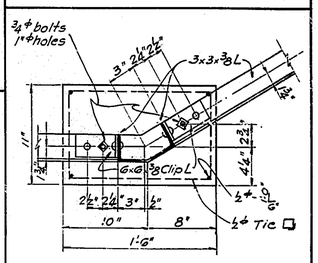
SECTION R-4



SECTION 6-16



SECTION 6-17



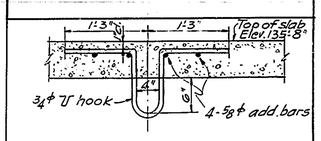
DETAIL "A"

Scale 1½" = 1'-0"

DETAIL "B" OPPOSITE HAND

See Plan For Location of Piers

TYPICAL DETAIL OF CONCRETE PIER SUPPORTING STACK ENCLOSURE



SECTION R-5

Scale 1" = 1'-0"

NOTES

Scale all sections and details ½" = 1'-0" unless otherwise noted.
For General Notes, Typical Details, etc. see Drwg. No. 410.
For Wind Bracing Details not shown on these sections see Drwgs. No. 409 and 409-1.
For details and dimensions not given see Architectural and Mechanical Drwgs.
For location, extent, etc. of sections and details see Drwgs. No. 405, 406, 406-1, 406-2, 407

DOCUMENT 2

DETAILS AT ROOF, ETC.

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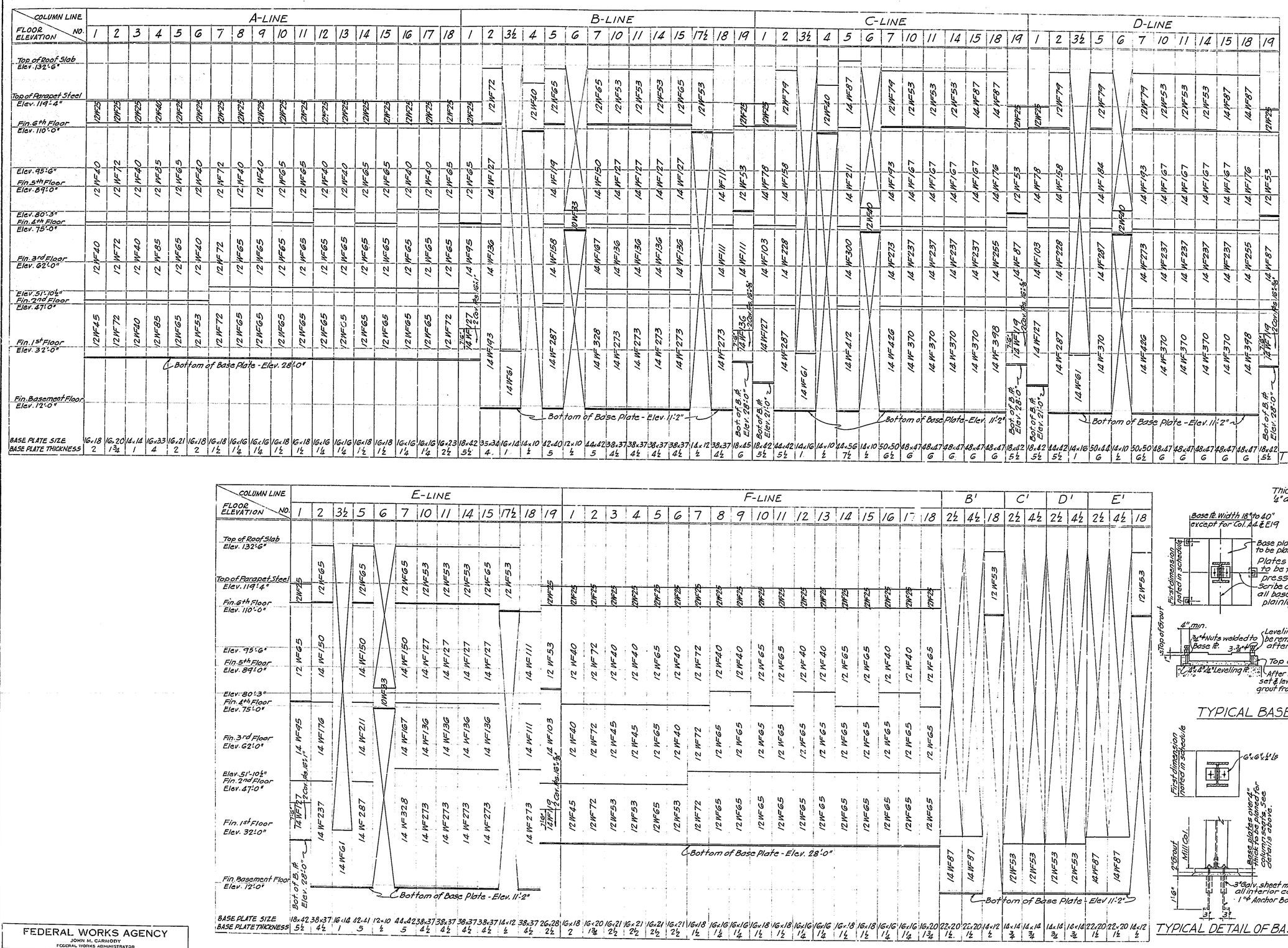
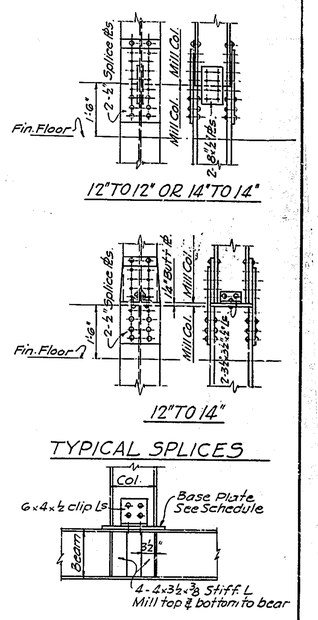
T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

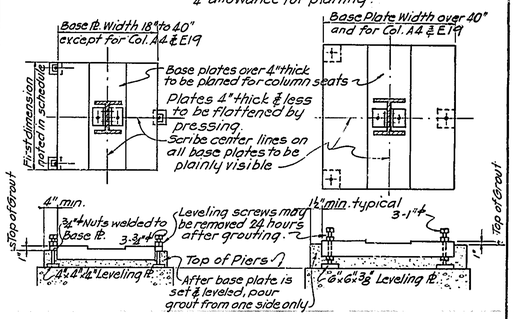
PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Harris DATE 6-20-41
CHECKED BY E.A.D. DATE 7-11-41
DRAWING No. 407-1

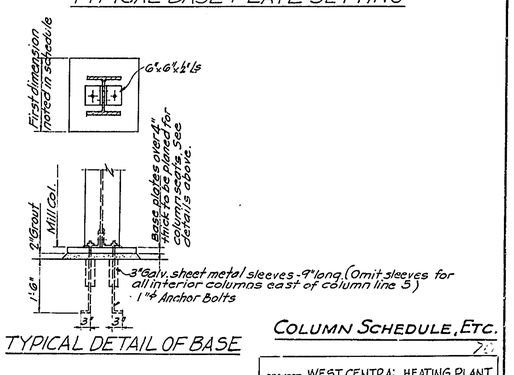
RETURN TO ROOM 411

END









COLUMN SCHEDULE, ETC.

NOTES

See Framing Plans for location of columns, etc.
For General Notes, Typical Details, etc. see Drwg. No. 410.
For Wind Bracing details, etc see Drwgs. No. 409 and 409-1.
For details, dimensions, etc. not given see Architectural and Mechanical Drwgs.
Modify location, detail, etc. of columns to suit mechanical equipment. See General Note "A" on Drwg. No. 410.
See General Note "B", drg. 410, for work required by omission of Mechanical Equipment, etc.

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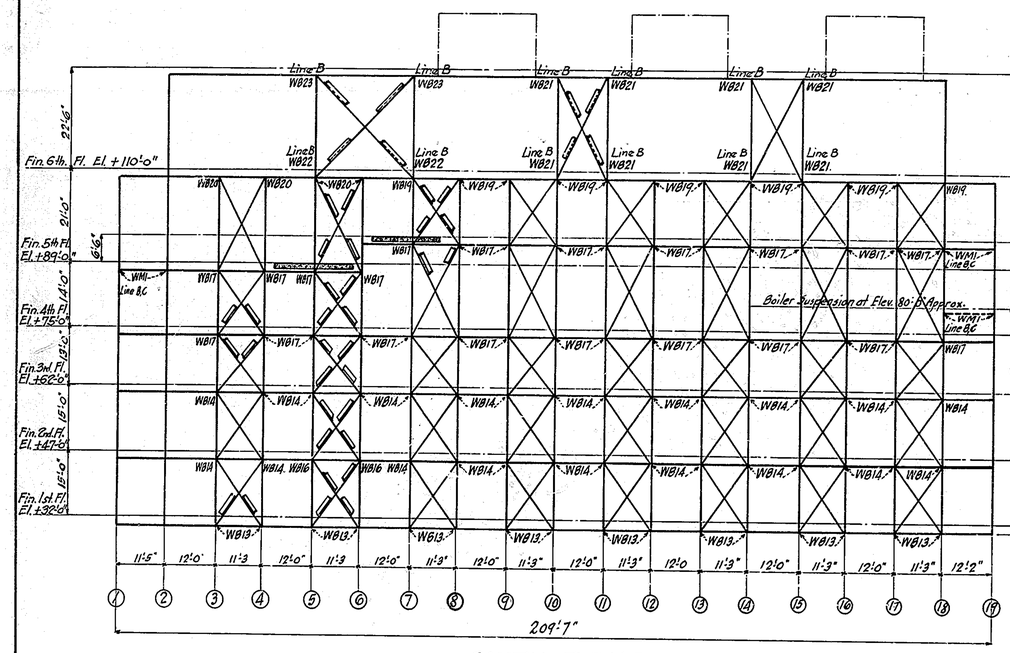
T. C. BROOKS, CHIEF OF STRUCTURAL ENGINEERING

PROJECT: WEST CENTRAL HEATING PLANT
LOCATION: WASHINGTON, D.C.
DRAWN BY: Rozman Harris DATE: 6-20-41
CHECKED BY: DATE: 7-11-41
DRAWING No. 408

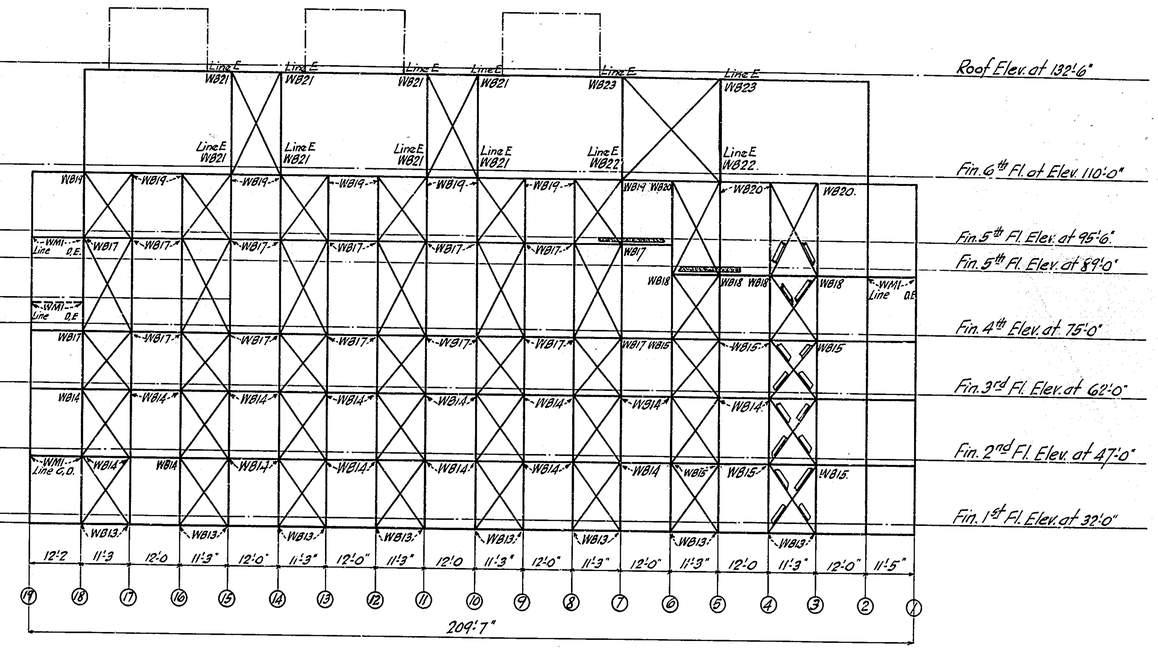
RETURN TO ROOM 411



SOUTH ELEVATION

Scale 1/16" = 1'-0"

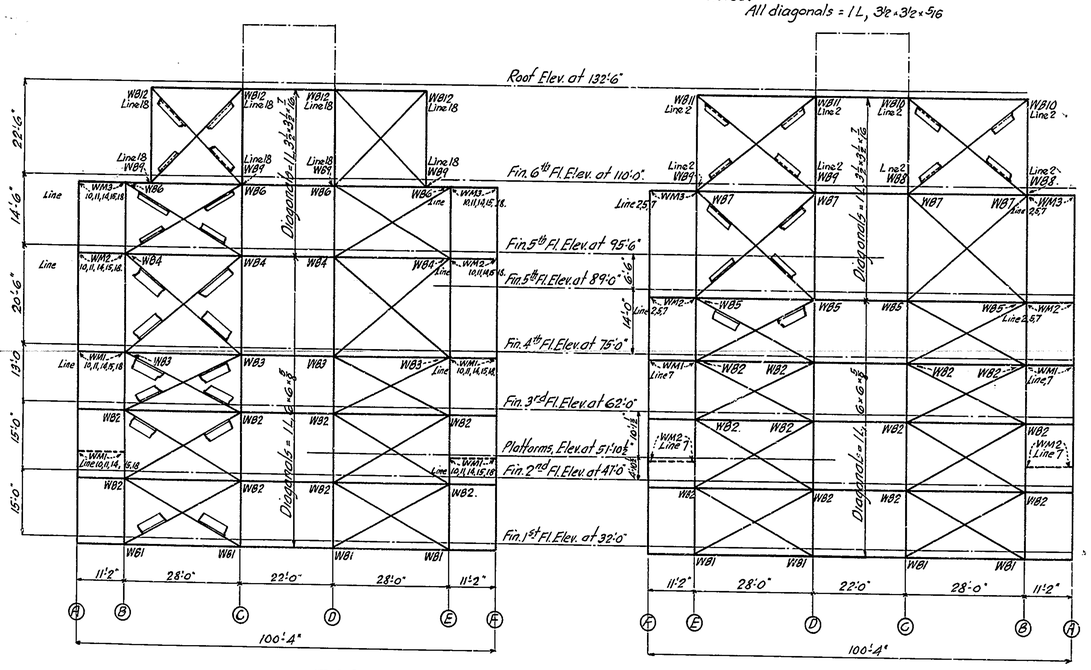
Note:- All connections marked on this elevation are at Col. line A unless noted.
All diagonals = 1L, 3½ × 3½ × 5/16



NORTH ELEVATION

Scale 1/16" = 1'-0"

Note:- All connections marked on this elevation are at Col. line F unless noted.
All diagonals = 1L, 3½ × 3½ × 5/16



EAST ELEVATION

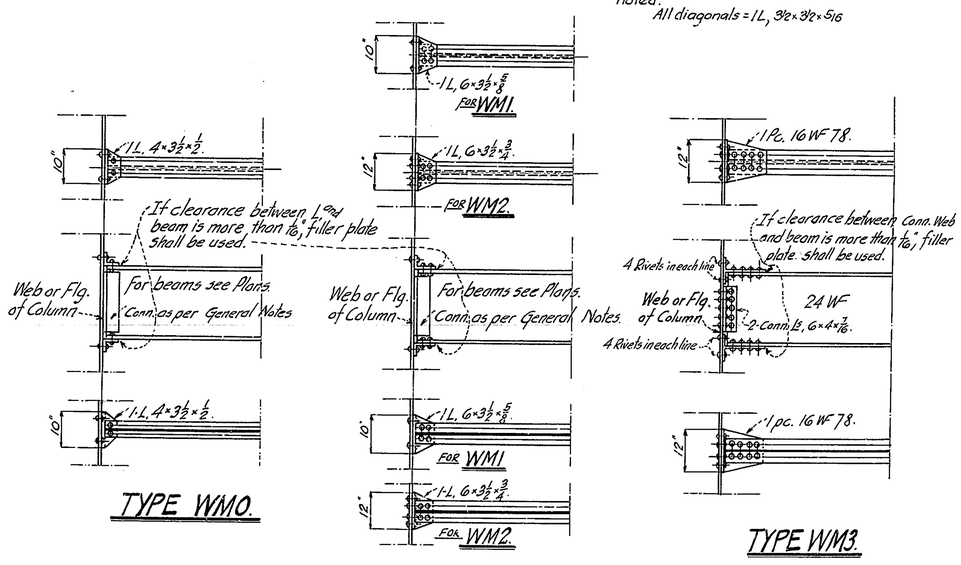
Scale 1/16" = 1'-0"

Note:- All connections noted on this elevation are at Col. line 19 unless noted.
Size of all diagonals as noted on elev.

WEST ELEVATION.

Scale 1/16" = 1'-0"

Note:- All connections noted on this elevation are at Col. line 1 unless noted.
Size of all diagonals as noted on elev.



TYPE WM0.

TYPE WM1.

TYPE WM2.

TYPE WM3.

NOTES:

Provide for every Beam or Channel framing to Columns (except as noted on drwg. 406-1) a minimum moment Connection, type "WM0", except where special types WB1 to WB23 incl. and WM1 to WM3, incl, are noted on framing plans, etc. All connections, type WB1 to WB23, incl, and WM0 to WM3, incl, shall be modified as necessary to suit framing details.
For Wind Bracing Connection, Types WB1 to WB23, Incl, see Drwg. Nº 409-1.
For General Notes, Typical Details, Etc, see Drwg. Nº 410.
For Steel Column Schedule, Etc., see Drwg. Nº 408.
For details, dimensions, etc. not given, see architectural and mechanical drwgs.
All connections designed for ⅞" rivets, minimum.

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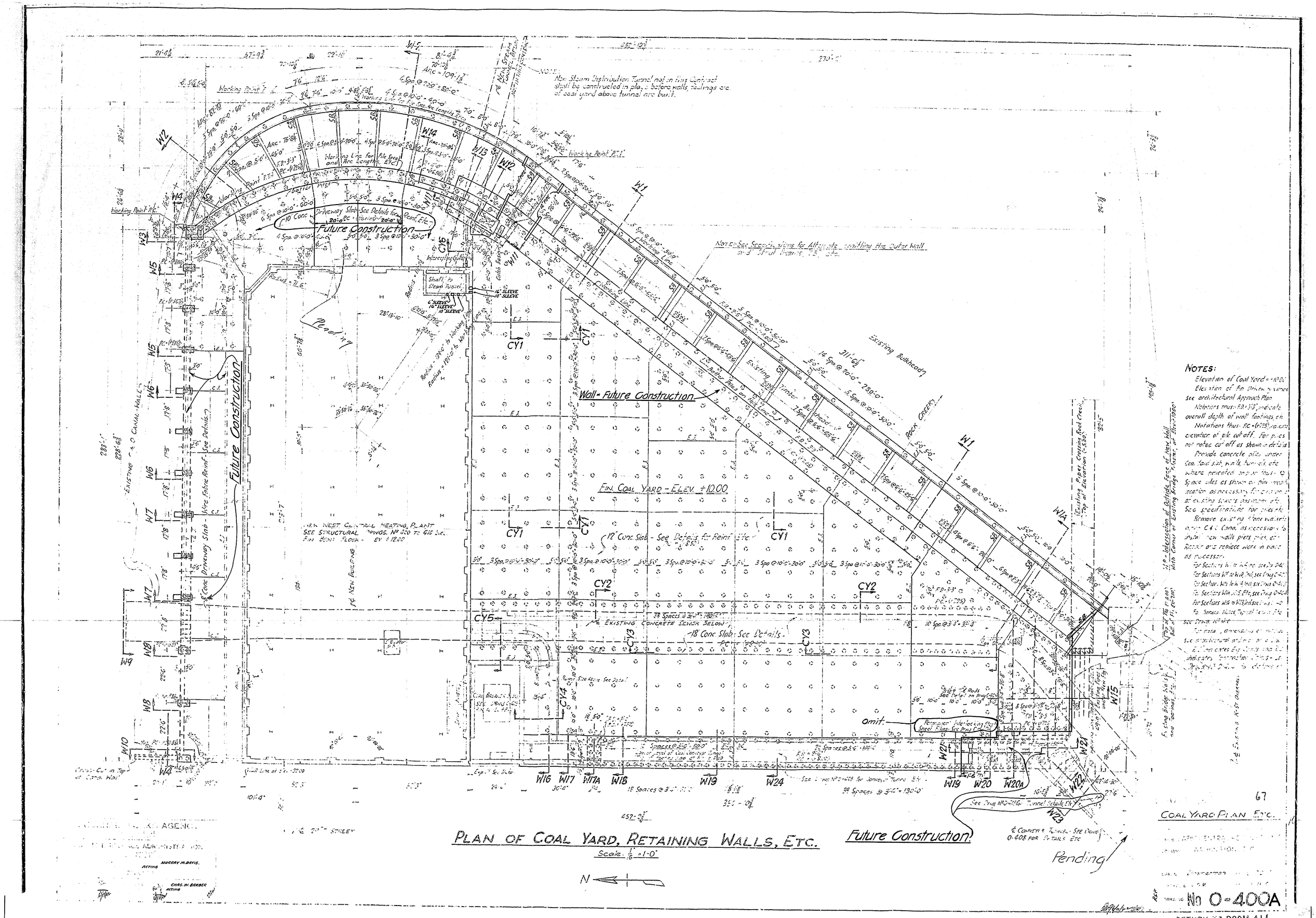
W. C. NOLL, CHIEF ARCHITECT | N. S. THOMPSON, CHIEF MECHANICAL ENGINEER | T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

D C000022L 120

WIND BRACING DIAGRAMS, ETC.

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY Rosman Andrews DATE 6-20-41
CHECKED BY DATE 7-11-41
DRAWING No. 409

RETURN TO ROOM 411



PLAN OF COAL YARD, RETAINING WALLS, ETC.

Scale: 1/16" = 1'-0"

NOTES:

Elevation of Coal Yard = +10.00

Elevation of Fin. Driveway varies

See architectural Approach Plan

Notations thus: F.D. = 3'-5", indicate overall depth of wall footings, etc.

Notations thus: P.C. = (+7.25), indicate elevation of pile cut off. For piles not noted cut off as shown in details.

Provide concrete piles under Coal Yard slab, walls, tunnels, etc. where indicated on plan thus: ○ Space piles as shown on plan, modify location as necessary for clearance at existing sewers, gas mains, etc. See specifications for piles, etc.

Remove existing stone walls, etc. along C & O Canal as necessary to install new walls, piers, piles, etc. Repair and replace work in place as necessary.

For Sections W1 to W4 incl. see Drwg. 0-4[illegible]

For Sections W5 to W10 incl. see Drwg. 0-4[illegible]

For Sections W11 to W14 incl. see Drwg. 0-4[illegible]

For Sections W16 to W18 incl. see Drwg. 0-4[illegible]

For Sections W19 to W23 incl. see Drwg. 0-4[illegible]

For General Notes, Typical Details, Etc. see Drwg. No. 4[illegible]

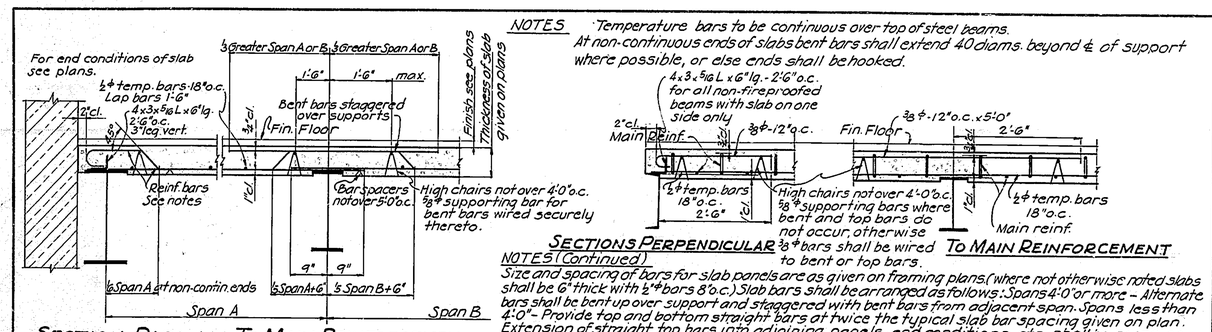
For data, dimensions of [illegible] see architectural and [illegible] Existing cases Exp. Joints and [illegible] indicates [illegible] Drwg. No. 0-4[illegible] to details [illegible]

67

COAL YARD PLAN ETC.

No 0-400A

RETURN TO ROOM 411



NOTES: Temperature bars to be continuous over top of steel beams. At non-continuous ends of slabs bent bars shall extend 40 diams. beyond ℄ of support where possible, or else ends shall be hooked.

SECTION PARALLEL TO MAIN REINFORCEMENT

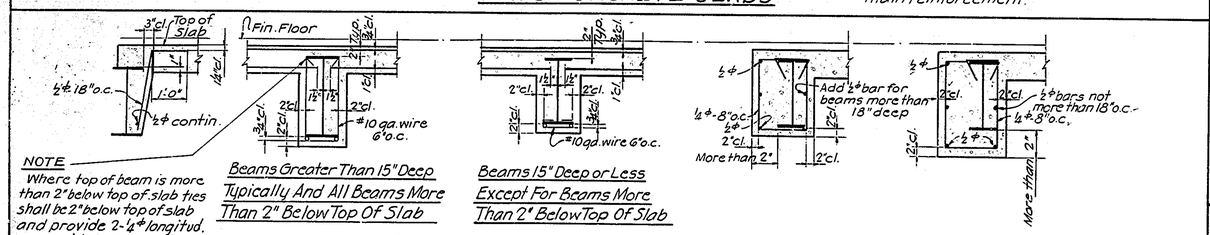
SECTIONS PERPENDICULAR TO MAIN REINFORCEMENT

NOTES (Continued)

Size and spacing of bars for slab panels are as given on framing plans. (Where not otherwise noted slabs shall be 6" thick with ½ϕ bars 8" o.c.) Slab bars shall be arranged as follows: Spans 4'-0" or more – Alternate bars shall be bent up over support and staggered with bent bars from adjacent span. Spans less than 4'-0" – Provide top and bottom straight bars at twice the typical slab bar spacing given on plan. Extension of straight top bars into adjoining panels, end conditions, etc. shall be same as for bent up bars in slabs.

→ on plans indicate direction of main reinforcement.

SOLID CONCRETE SLABS

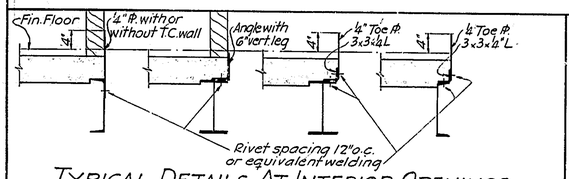


NOTE: Where top of beam is more than 2" below top of slab ties shall be 2" below top of slab and provide 2-½ϕ longitud. support bars thruout.

Beams Greater Than 15" Deep Typically And All Beams More Than 2" Below Top Of Slab

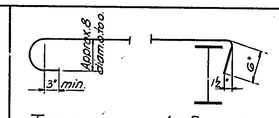
Beams 15" Deep or Less Except For Beams More Than 2" Below Top Of Slab

TYPICAL BEAM FIREPROOFING



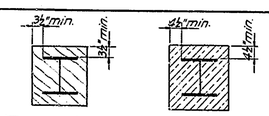
TYPICAL DETAILS AT INTERIOR OPENINGS

One of the above details shall apply to each interior opening unless otherwise shown or noted on plans.



TYPICAL AT BEAMS

BAR HOOKS

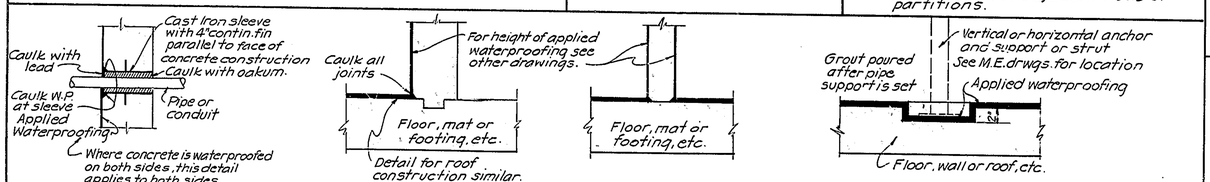


TERRA-COTTA

BRICK OR CERAMIC FACED WALL UNITS

COLUMN FIREPROOFING

NOTE: Fireproofing materials shall be same as material of adjacent walls or partitions.



TYPICAL DETAIL OF PIPE OR CONDUIT PASSING THRU CONSTRUCTION WATERPROOFED WITH APPLIED WATERPROOFING

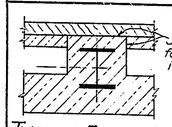
TYPICAL WATERPROOFING DETAIL AT EXTERIOR WALL AND EXTERIOR COLUMN

TYPICAL WATERPROOFING DETAIL AT INTERIOR WALL AND INTERIOR COLUMN

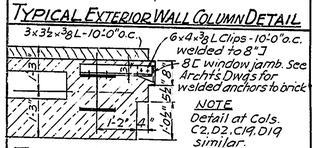
DETAIL OF POCKET IN CONCRETE CONSTRUCTION FOR SUPPORTS OR ANCHORS

PROVIDE SIMILAR POCKET DETAIL FOR BOTTOM OF LADDER STRINGERS

APPLIED WATERPROOFING DETAILS

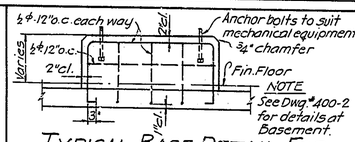


TYPICAL EXTERIOR WALL COLUMN DETAIL



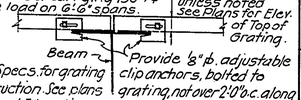
NOTE: Detail at Cols. C2, D2, C19, D19 similar.

TYPICAL SASH FRAME ANCHORAGE



TYPICAL BASE DETAIL FOR MECHANICAL EQUIPMENT

NOTE: All gratings shall be capable of carrying 150#/□' live load on 6'-6" spans.

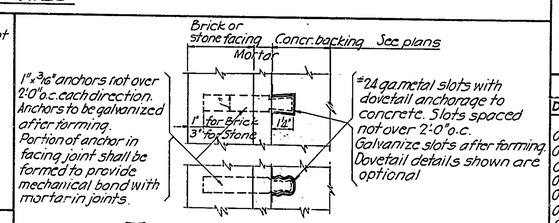


NOTE: See Specs. for grating construction. See plans for extent & location.

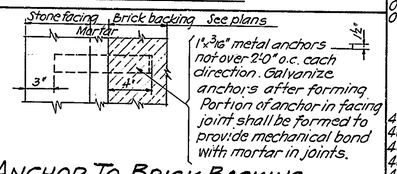
Provide openings thru gratings as required for mechanical equipment. Provide proper framing as required at all openings. See General Note "A" this sheet.

Provide ¼" toe plates, extending 4" above top of grating, at all openings, etc. unless otherwise noted or shown.

TYPICAL GRATING DETAILS



TYPICAL METAL ANCHORS TO CONCRETE BACKING



STONE ANCHOR TO BRICK BACKING

FEDERAL WORKS AGENCY
JOHN M. CARMODY
FEDERAL WORKS ADMINISTRATOR

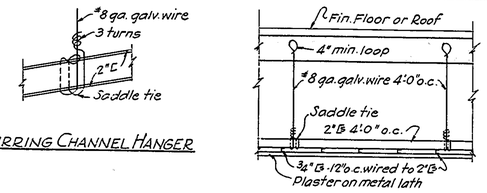
PUBLIC BUILDINGS ADMINISTRATION
W. C. REYNOLDS
COMMISSIONER OF PUBLIC BUILDINGS

LOUIS A. SIMON
SUPERVISING ARCHITECT

NEAL A. MELICK
SUPERVISING ENGINEER

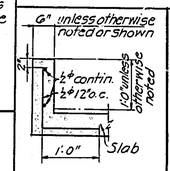
APPROVED

W. G. NOLL, CHIEF OF ARCHITECTURE — N. S. THOMPSON, CHIEF MECHANICAL ENGINEER — T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

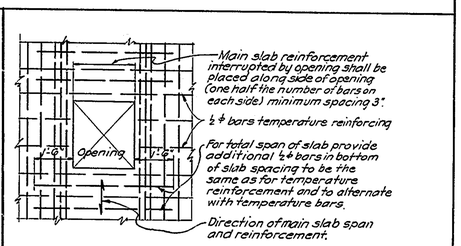


FURRING CHANNEL HANGER

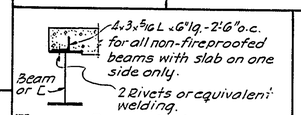
SUSPENDED CEILING



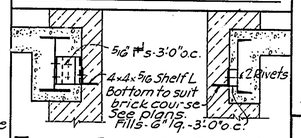
TYPICAL CURB DETAIL



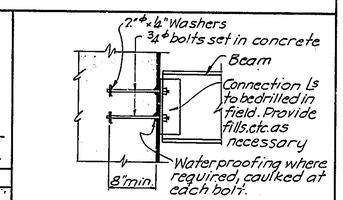
OPENING IN SOLID SLAB CONSTRUCTION



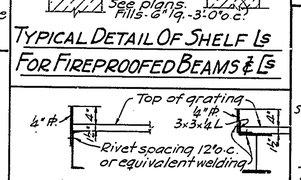
TYPICAL DETAIL OF ANCHORAGE FOR SLAB TO STEEL BEAM



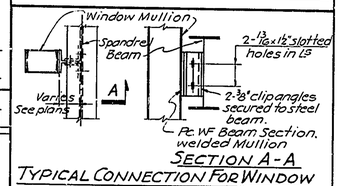
TYPICAL DETAIL OF SHELF Ls FOR FIREPROOFED BEAMS & Ls



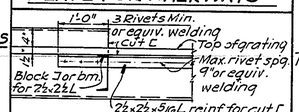
TYPICAL DETAIL OF CONNECTION FOR STEEL BEAM TO CONCR. WALL, ETC.



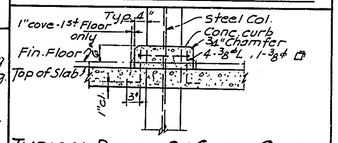
TYPICAL DETAIL OF TOE PLATE FOR WALKWAYS



TYPICAL CONNECTION FOR WINDOW MULLION - COLUMN LINES 2 AND 19



TYPICAL DETAIL OF WALKWAY INTERSECTION



TYPICAL DETAIL OF CONCR. CURB INTERIOR COLUMNS AT ELEV. 32'-0" AND 110'-0" ONLY

SCHEDULE OF STRUCTURAL DRAWINGS

Dwg. No.	Title
	AUXILIARY STRUCTURES
0-400	Coal Yard Plan, Retaining Walls, Etc.
0-401	Coal Yard and Wall Details
0-402	Driveway Wall Details
0-403	Coal Yard Sump Details
0-404	Miscl. Details
0-405	Coal Breaker Bldg. Plan
0-406	Coal Breaker Bldg. Details
0-407	Coal Conveyor Tunnel Details
0-408	" " " "
0-409	Coal Receiving Bldg. Plan
0-410	Coal Receiving Bldg. Details
0-411	" " " "
	MAIN HEATING PLANT
400	Foundation Plan
400-1	Basement Framing Plan
400-2	Foundation and Pit Details
400-3	Foundation Typical Details
400-4	Foundation Details
400-5	" "
400-6	" "
400-7	" "

Dwg. No.	Title
401	1st Floor Framing Plan
401-1	Floor at El. 26'-0" & Boiler Walkway bel. 1st Flr.
401-2	1st Floor Details
401-3	" " "
402	2nd Floor & Walkway Framing Plan
402-1	Walkway Framing Plan at Elev. 51'-10½"
402-2	2nd Floor Details
402-3	Sections & Details at Elev. 51'-10½"
403	3rd Floor Framing Plan
403-1	3rd Floor Details
404	4th Floor Framing Plan
404-1	Boiler Suspension & Walkway Framing Plan
404-2	4th Floor Details, Etc.
404-3	4th Floor & Boiler Suspension Details
405	5th Floor Framing Plan
405-1	5th Floor Details
406	6th Floor Framing Plan
406-1	Precipitator Walkway Framing Plan El. 121'-3", Etc.
406-2	6th Floor Details
407	Roof Framing Plan
407-1	Details at Roof, Elev. 121'-3", 6th Floor, Etc.
408	Column Schedule, Etc.
409	Wind Bracing Diagrams, Etc.
409-1	Wind Bracing Details
410	General Notes & Typical Details

GENERAL NOTES

CONCRETE

Concrete covering for reinforcing steel shall be a minimum of ¾" for slab, 1½" for beam, 2" for column and wall, and 3" for footing bars, unless noted.

Reinforcing bars marked "continuous" shall be lapped 40 diameters at splices, unless otherwise noted, and hooked at discontinuous ends. Stagger splices.

See details for typical bar bending and placing in slabs and beams.

Home run conduits shall not be placed in concrete slabs.

Slabs carrying concrete walls shall be properly shored until the walls have set.

See detail and specifications for anchoring masonry to concrete walls.

Where the main reinforcing of solid slabs is parallel to a beam or wall provide top reinforcing equivalent to ⅜ϕ bars 12" o.c. extending into the slab not less than 2'-6", discontinuous ends hooked.

Straight top bars shall extend beyond support same as typical bent bars.

Bars which are straight except for hooks are listed in schedule as straight bars.

Lengths given for bars do not include hook if any.

Provide and accurately set in concrete all anchor bolts, sleeves, etc. for all structural steel & mechanical equipment, etc. see General Note "A" below.

See mechanical and architectural drawings for reinforcing of miscellaneous concrete structures, etc. not shown on structural drawings.

All concrete walls, unless otherwise noted, shall have minimum reinforcing as given in schedule on drawing #400-4.

Concrete shall be class A

STRUCTURAL STEEL

Details shall be designed in accordance with the specifications for Structural Steel for Buildings of the A.I.S.C. dated October, 1937.

Steel beam sections are indicated thus:

WF for wide flange sections. ⊏ for channel sections

I for American Standard Sections. L for angles

Where necessary due to detail requirements, beam webs for connections shall be reinforced for buckling and crushing.

End connections for beams, unless otherwise noted on plans, shall have a strength equal to the reaction produced by a uniform load stressing the beam to 20,000# per square inch, with a minimum reaction as determined by a span of twelve times the depth of the beam, except that rivets in framed connections for 8", 10", 12" and 14" beams shall not be less than the number of rivets indicated in the "A.I.S.C. 'A' series Connections."

Framed connection angles shall not be less than ⅜" thick for beams 18" deep or less and not less than ⅞" thick for beams over 18" deep.

Steel lintels over openings in brick walls shall consist of 1-4x3½x5/16 L for each 4" of brick, unless otherwise noted, with 4" leg upstanding.

Steel angle lintels in pairs shall be riveted or bolted together with ¾ϕ rivets or bolts 18" o.c.

Angle lintels shall have a minimum of 4½" bearing on masonry at each end but not less than 1" of bearing at each end for each foot of opening.

Shop connections shall be riveted.

All field connections shall be riveted unless noted.

Where rough machine bolts are used in connections, bearing on threads will not be permitted.

Dimensions on plans are to back of channels, unless noted.

Provide all holes in steel as required for installation of mechanical equipment, etc. See General Note "A" below.

GENERAL NOTE "A"

Size, location, etc. of all structural members, supporting mechanical equipment, etc., given on structural drawings, are based on an assumed load for equipment, etc. and shall be modified as necessary to suit the requirements of actual load of mechanical equipment, etc. installed. Contractor shall provide the necessary load data, etc. required to verify size and location, etc. of all such structural members before shop drawings are submitted for approval. Shop drawings shall give size, location, etc. of all openings, holes, connections, etc. required for all mechanical appurtenances, etc. for structural members supporting boilers, auxiliary mechanical equipment, etc. No concrete shall be poured, or any construction completed, until all mechanical equipment or anchors, inserts, sleeves, and other mechanical appurtenances for same, whether shown or not on contract drawings, have been properly set and verified by contractor.

Mechanical equipment shall be so located that free movement at all structural expansion joints is not interfered with.

Where openings thru floors, gratings, etc. are not completely occupied by mechanical pipes, ducts, etc. same shall be covered with suitable steel plate, neatly fitted around pipes, etc. and attached to floor or grating. Where required, opening, cover shall extend above floor to form curb for water flashing, etc.

All details shown or noted on this drawing are typical for all work on drawings given in Schedule of Structural Drawings and all other drawings, unless otherwise noted or shown.

See Architectural and Mechanical Drawings for all other details, dimensions, etc., not shown or noted. References to Mechanical Drawings shall be understood to include mechanical equipment specifications, etc.

GENERAL NOTE "B"

Where Mechanical Equipment, etc., is omitted under base bids and alternates, and also at Future Boilers, Precipators, etc., provide pipe railings, framing, stack opening covers and other work, etc. as required by the specifications but not shown on the drawings.

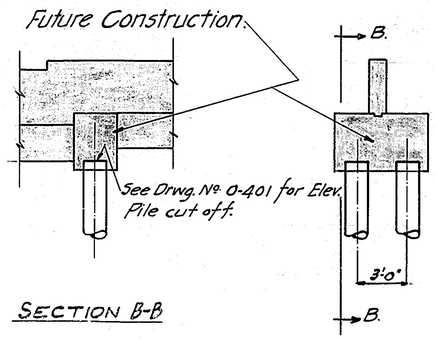
GENERAL NOTES & TYPICAL DETAILS

2-2

PROJECT WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY A.A.H. DATE 6-20-41
CHECKED BY A.R., E.A.O., H.M.J. DATE 7-11-41
DRAWING No. 410

D0000222 122

RETURN TO ROOM 419

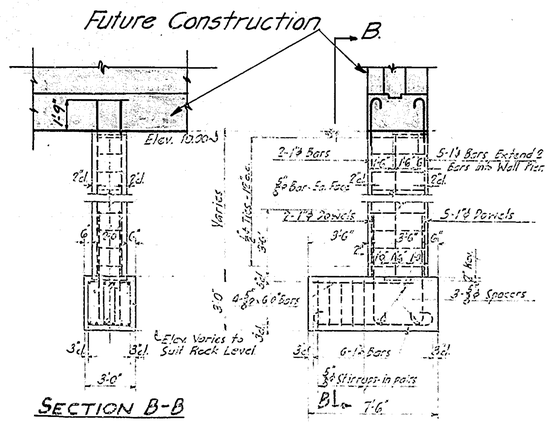


SECTION B-B

SECTION W-5

TYPICAL FOR DRIVEWAY WALLS AT ELEV. 20.00

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

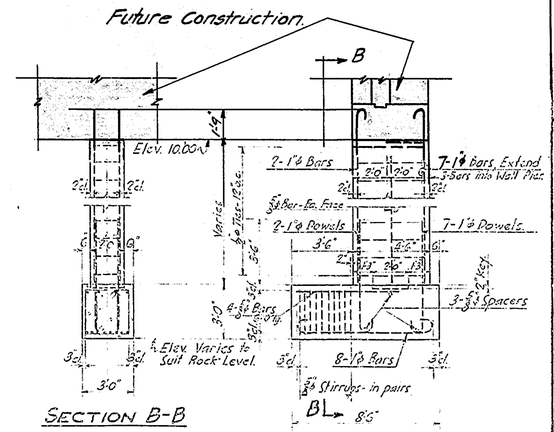


SECTION B-B

SECTION W-6

TYPICAL FOR DRIVEWAY WALLS AT ELEV. 22.67

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

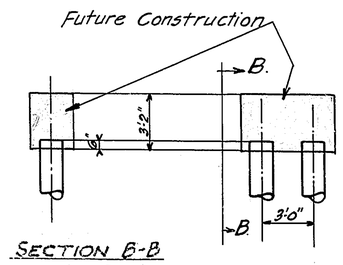


SECTION B-B

SECTION W-7

TYPICAL FOR DRIVEWAY WALLS AT ELEV. 25.33

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

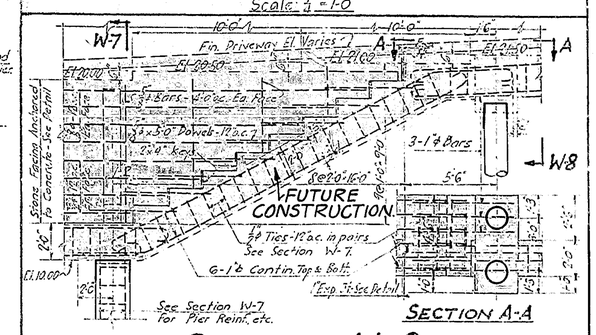


SECTION B-B

SECTION W-8

TYPICAL FOR DRIVEWAY WALLS AT ELEV. 28.08

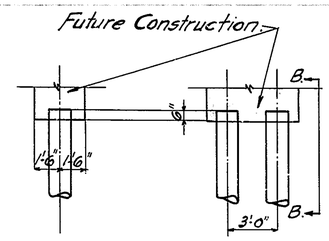
Scale: 1/4"=1'-0"



SECTION W-9

ELEVATION OF WALL OVER EXISTING SEWER

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



SECTION B-B

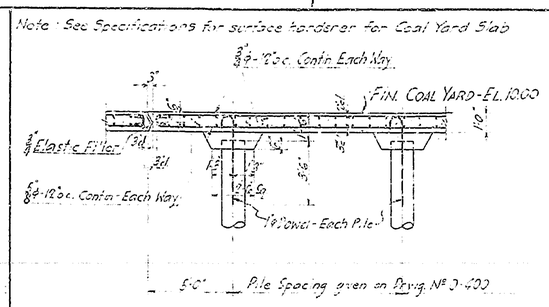
FEDERAL WORKS AGENCY
PUBLIC BUILDINGS ADMINISTRATION
APPROVED
MURRAY M. DAINS
CHAS. W. BARBER

SECTION W-10

ELEVATION OF WALL AT N.W. CORNER

Scale 1/4"=1'-0"

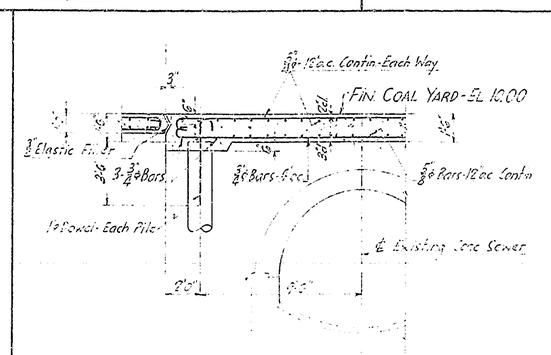
Note: See Specifications for surface hardener for Coal Yard Slab



SECTION CY-1

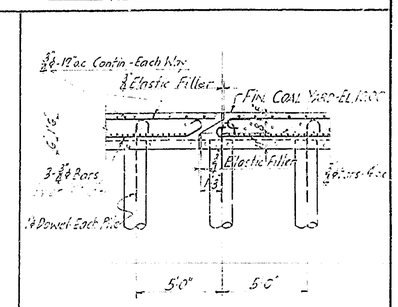
TYPICAL COAL YARD SLAB CONSTRUCTION

Scale 1/4"=1'-0"



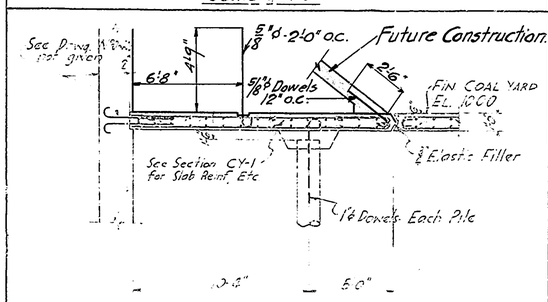
SECTION CY-2

Scale 1/4"=1'-0"



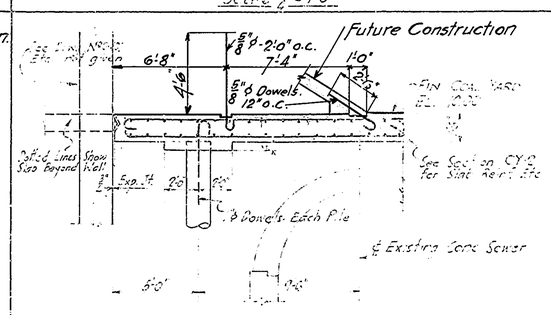
SECTION CY-3

Scale 1/4"=1'-0"



SECTION CY-4

Scale 1/4"=1'-0"



SECTION CY-5

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

NOTES:

See Drwg. No. 0-400 for location and elevations of sections W-5 to W-10 and CY-1 to CY-5 inclusive.

See Drwg. No. 0-400 for Yard Layout Plan and for General Notes, Typical Details & Specs. See Drwg. No. 410.

For details, dimensions, etc. not shown see architectural and mechanical drawings.

DRIVEWAY WALL DETAILS

Zimmerman

No. 0-402A

RETURN TO ROOM 341

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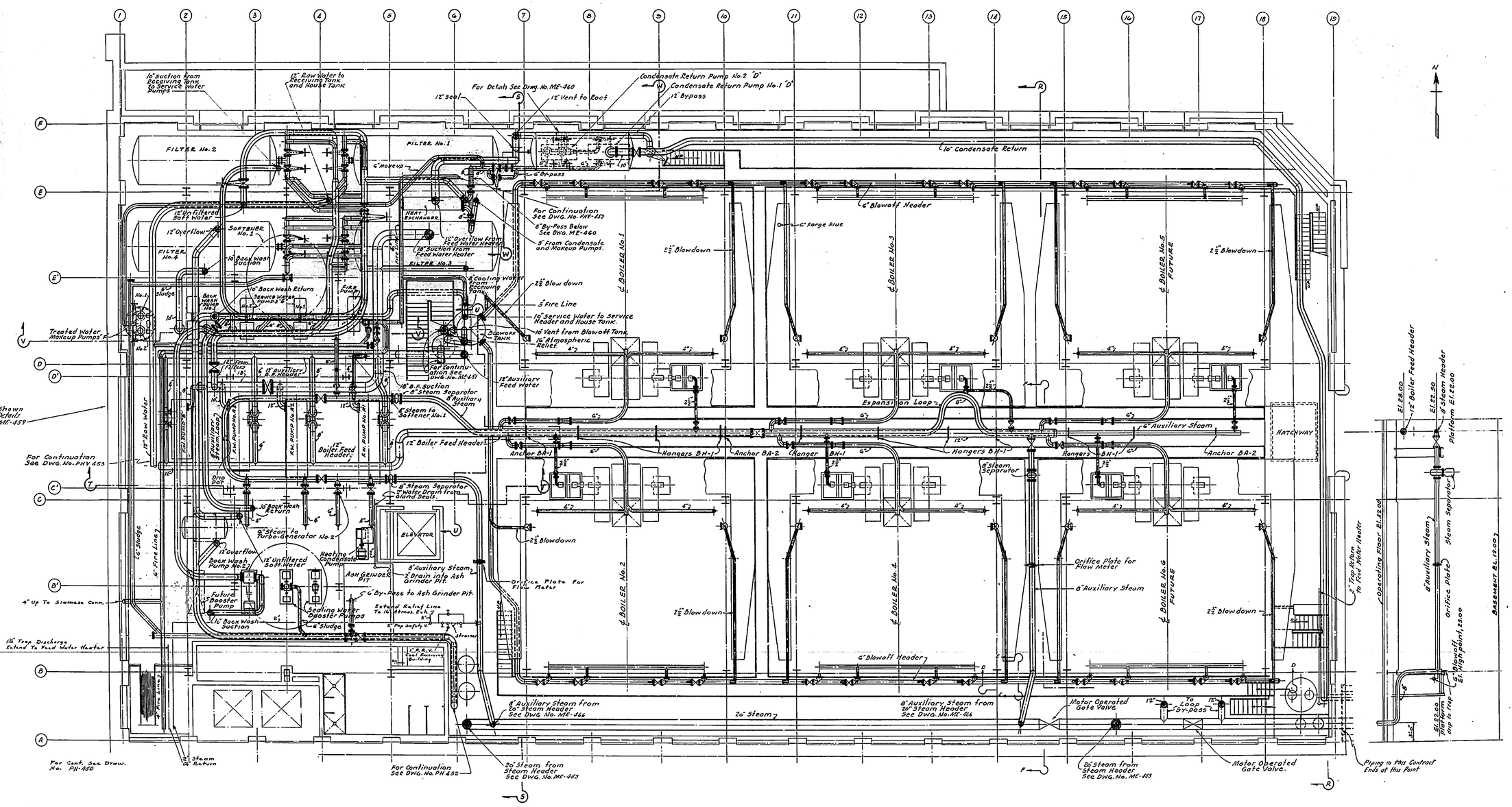
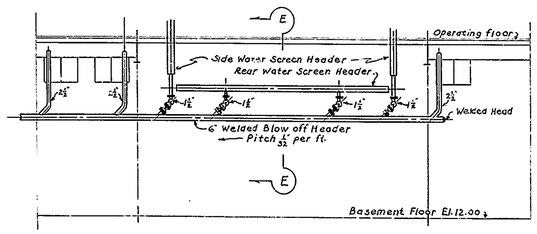


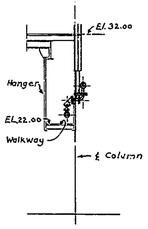
GENERAL BASEMENT FLOOR PLAN

SCALE 1/8" = 1'-0"
ELEV. 12'-0"

NOTE: – FOR EXHAUST AND WATER PIPING SEE DRWG. NO. ME-451



–SECTION D-D–



–SECTION E-E–

MECHANICAL EQUIPMENT

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JOHN M. CARMODY
FEDERAL WORKS ADMINISTRATOR

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COMMISSIONER OF PUBLIC BUILDINGS

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NEAL A. MELICK, SUPERVISING ENGINEER

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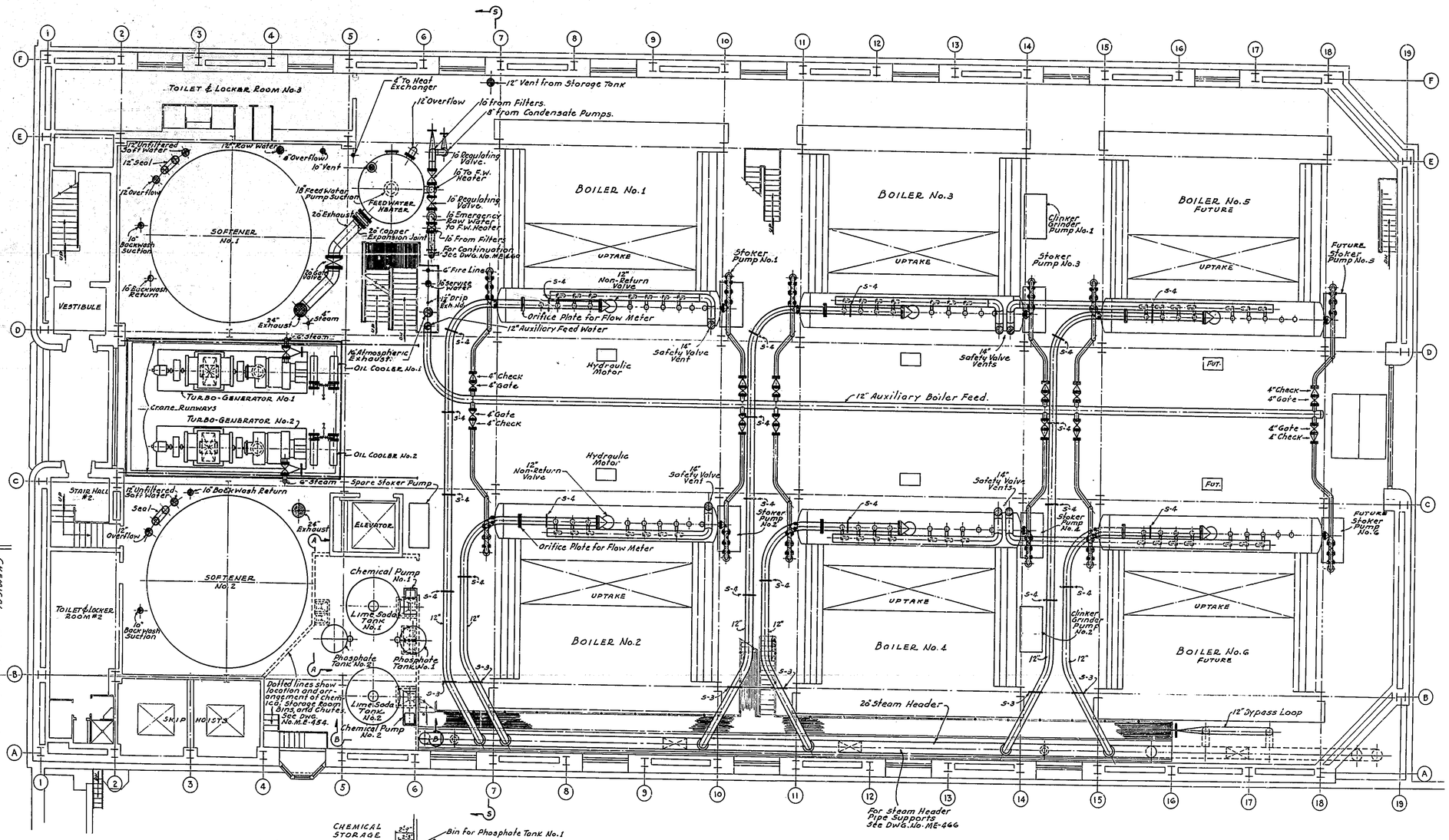
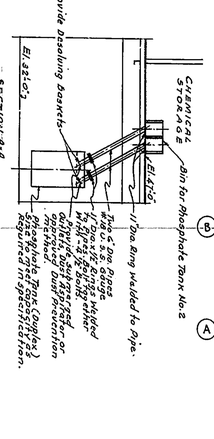
N. S. THOMPSON, CHIEF MECHANICAL ENGINEER
T. C. BROOKS, CHIEF STRUCTURAL ENGINEER

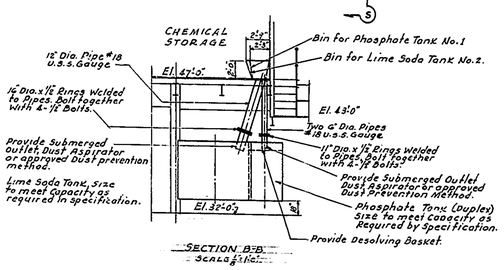
D 000 2 141
91

WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D. C.
DRAWN BY L.B.P. DATE 6-20-41
CHECKED BY L.V.A. DATE 7-11-41
DRAWING No. ME-450

RETURN TO ROOM 411







FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"
ELEV. 32'-0"

MECHANICAL EQUIPMENT

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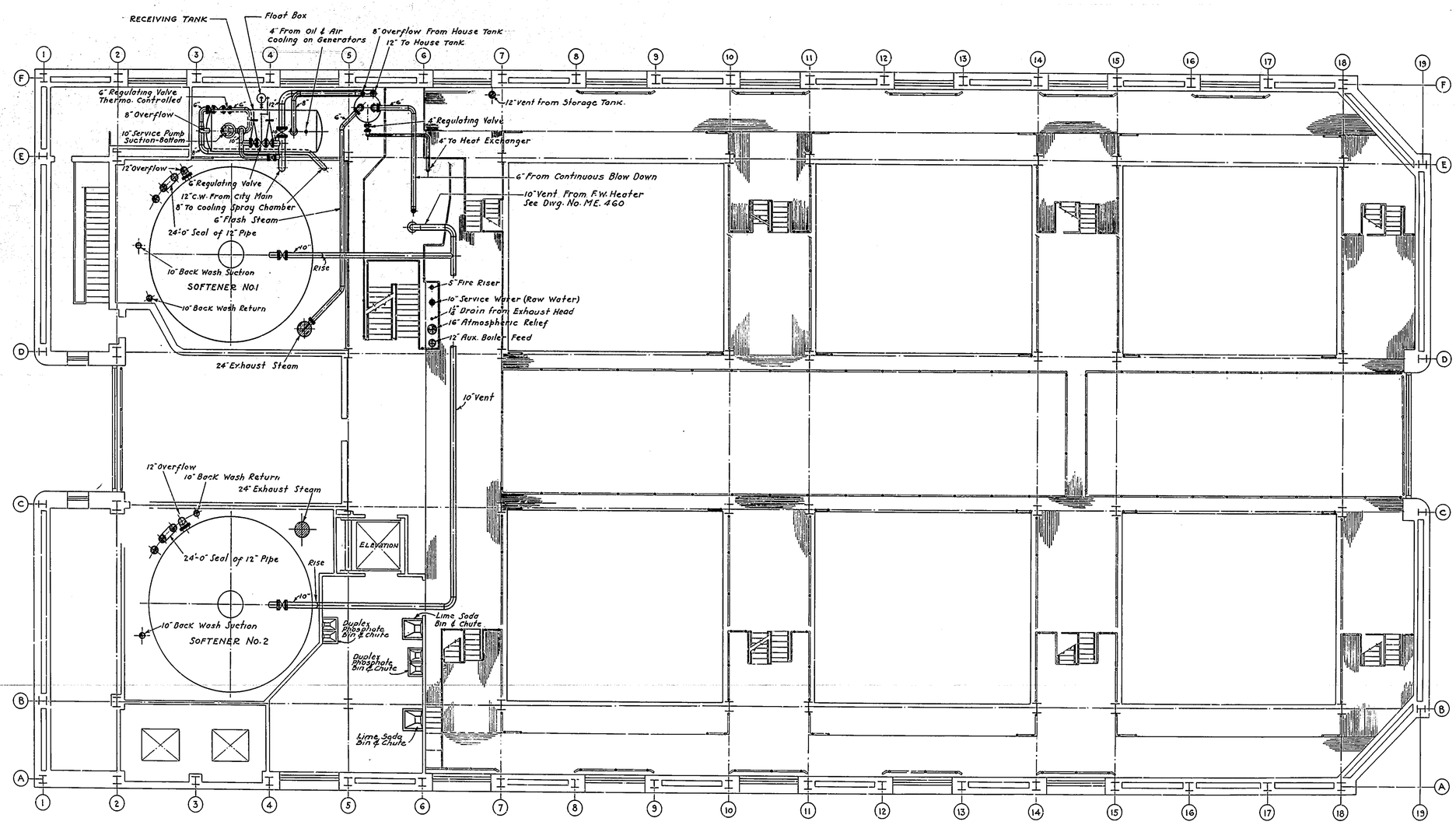
WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D. C.
DRAWN BY L.B.P. DATE 6-20-41
CHECKED BY L.V.A. DATE 7-11-41
DRAWING No. ME-453

RETURN TO ROOM 411



SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

ELEV. 47'-0"

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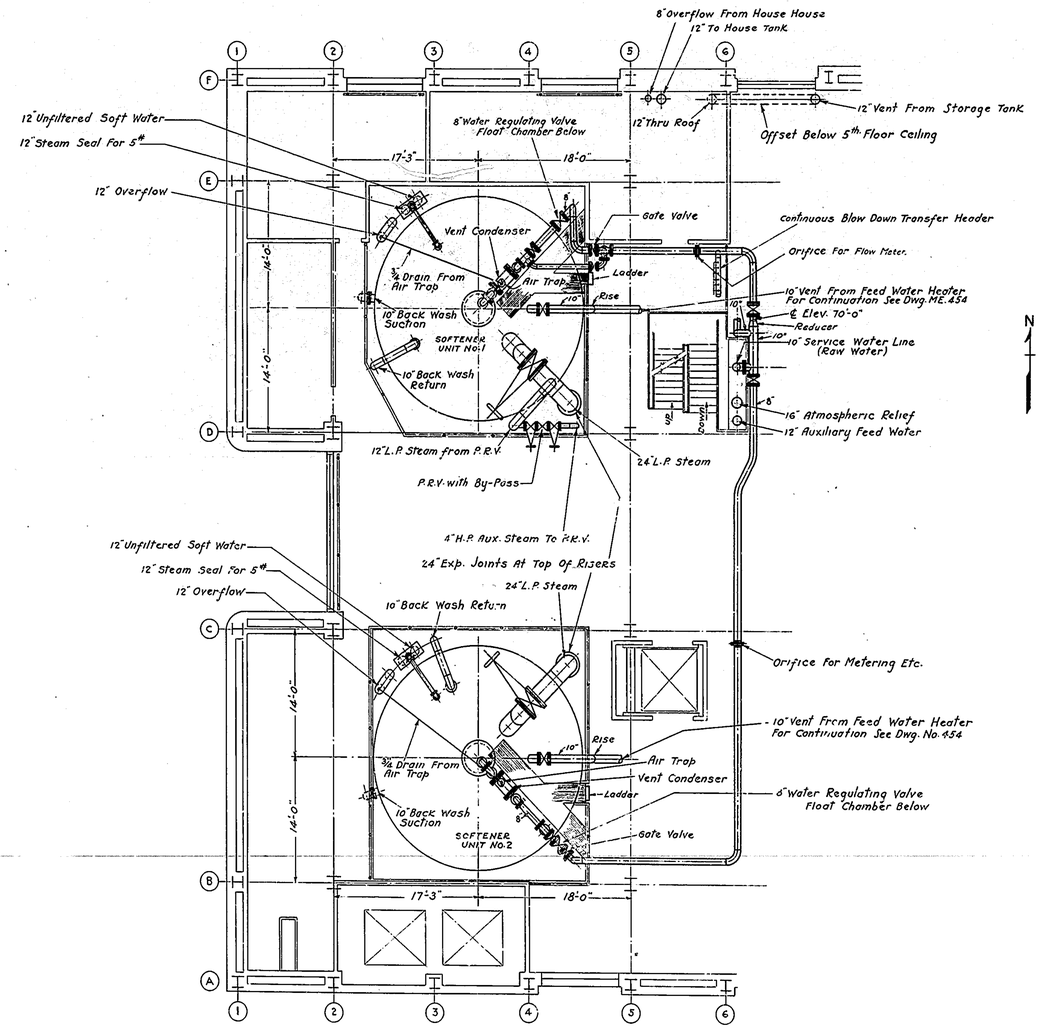
WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D. C.
DRAWN BY L.B.B. DATE 6-20-41
CHECKED BY L.V.A. DATE 7-11-41
DRAWING No. ME-454

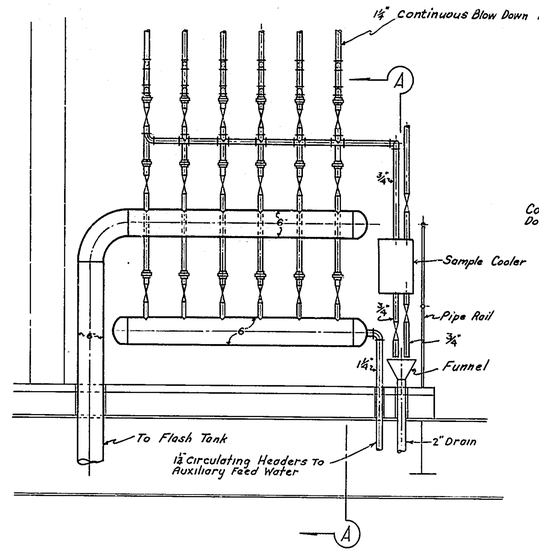
RETURN TO ROOM 311



THIRD FLOOR PLAN

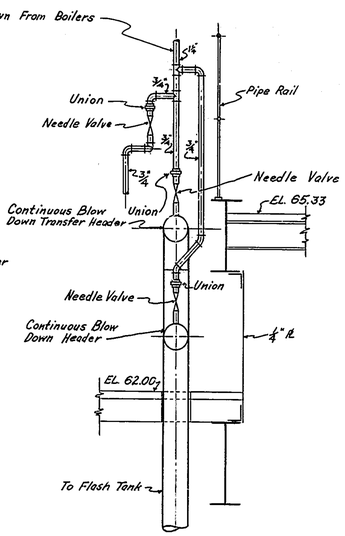
SCALE 1/8" = 1'-0"

ELEV. 62'-0"



CONTINUOUS BLOW DOWN TRANSFER HEADER

SCALE 3/4" = 1' 0"



ELEVATION A-A

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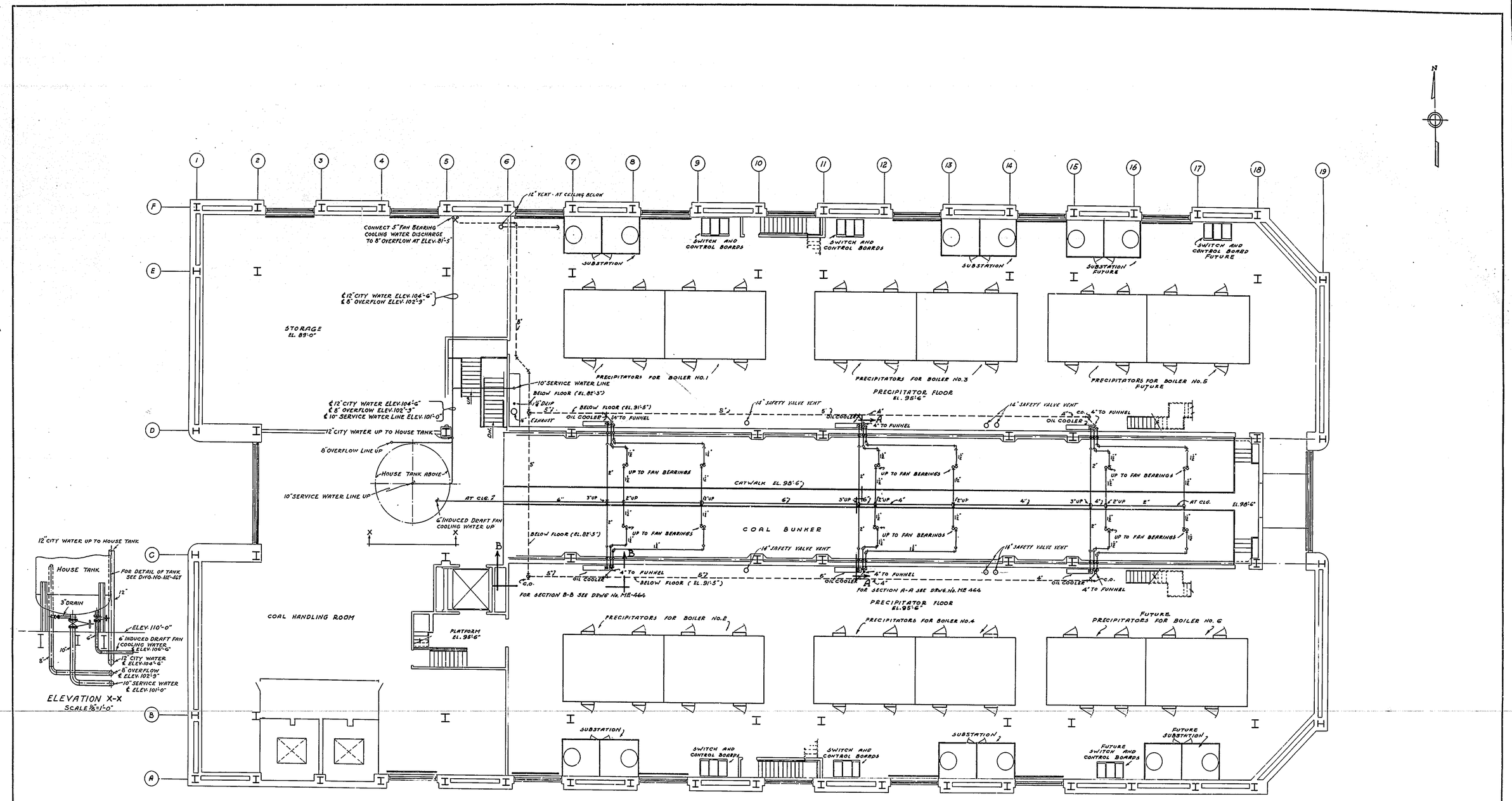
DC0002ZZ 176

WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D. C.

DRAWN BY L.B.P. DATE 4-30-41
CHECKED BY L.V.A. DATE 7-11-41
DRAWING No. ME-455



FIFTH FLOOR PLAN

SCALE 1/8" = 1' 0"

MECHANICAL EQUIPMENT

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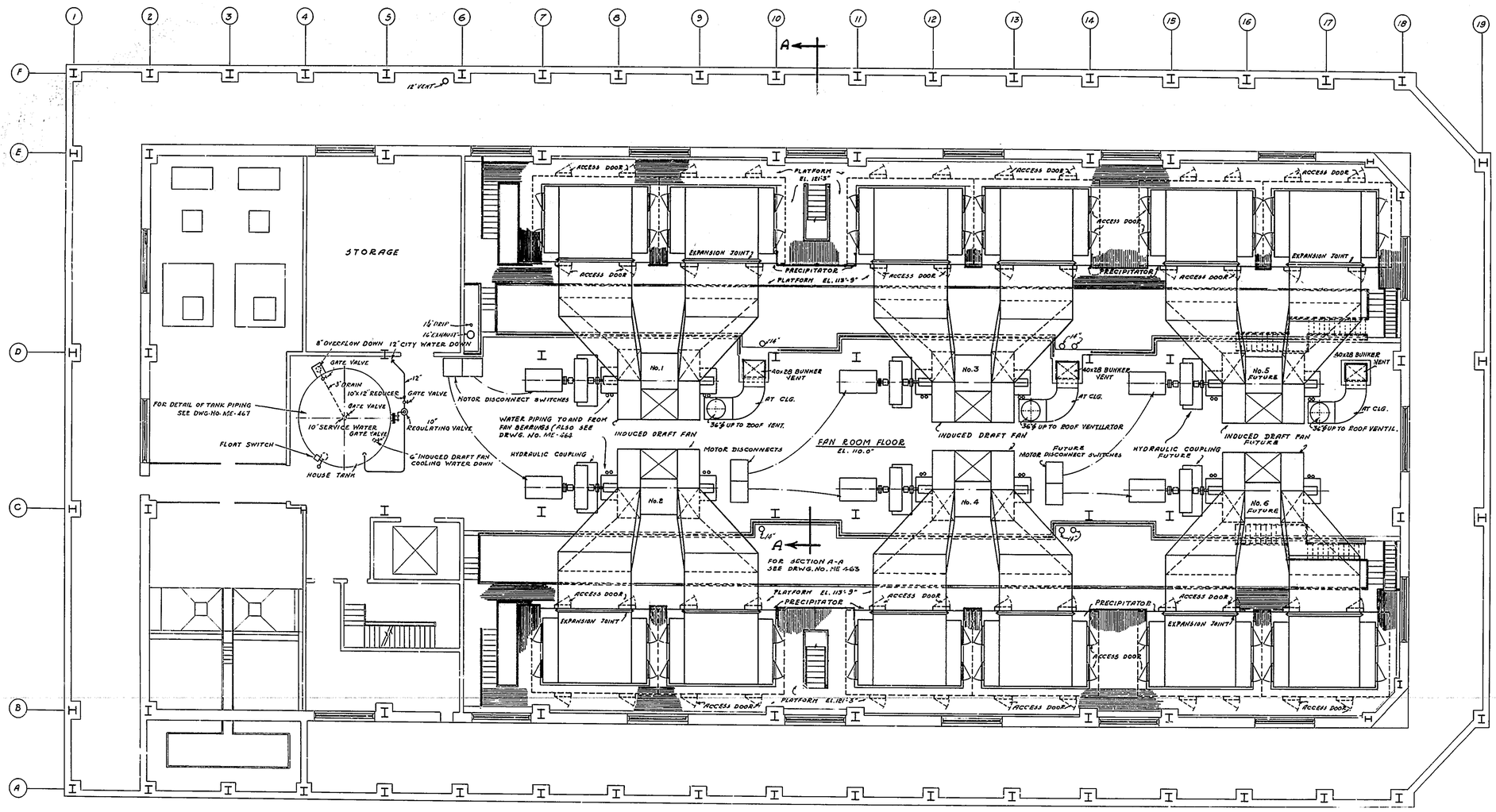
WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D. C.

DRAWN BY J.C.S. DATE 6-20-41
CHECKED BY L.V.A. DATE 7-11-41
DRAWING No. ME-456



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

D00022Z 148

MECHANICAL EQUIPMENT

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NEAL A. MELICK
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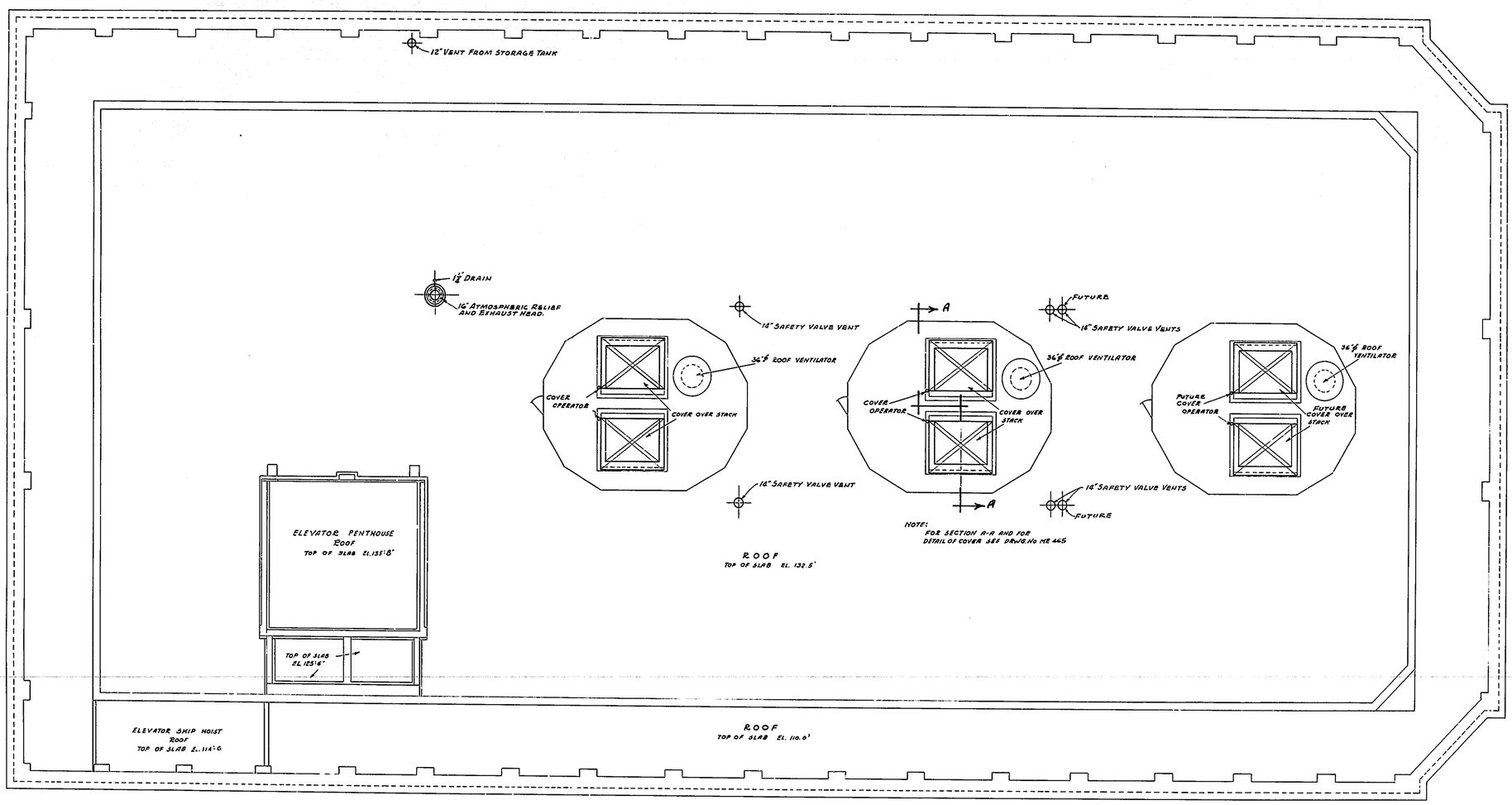
WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D. C.
DRAWN BY J. C. L. DATE 6-20-41
CHECKED BY L. V. A. DATE 7-11-41
DRAWING No. ME-457

RETURN TO ROOM 411



ROOF PLAN

SCALE ⅛" = 1'0"

MECHANICAL EQUIPMENT

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NEAL A. MELICK, SUPERVISING ENGINEER

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DC0002ZZ 149

99

WEST CENTRAL HEATING PLANT
LOCATION WASHINGTON, D.C.
DRAWN BY J.C.S. DATE 6-20-41
CHECKED BY L.V.A. DATE 7-11-41
DRAWING No. ME-458

RETURN TO DOW 411