

PEARL STREET GARAGE
UNIVERSITY OF MARYLAND AT BALTIMORE
BALTIMORE MARYLAND 21201 **UMAB PROJECT NO. 85 304 A**

J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS

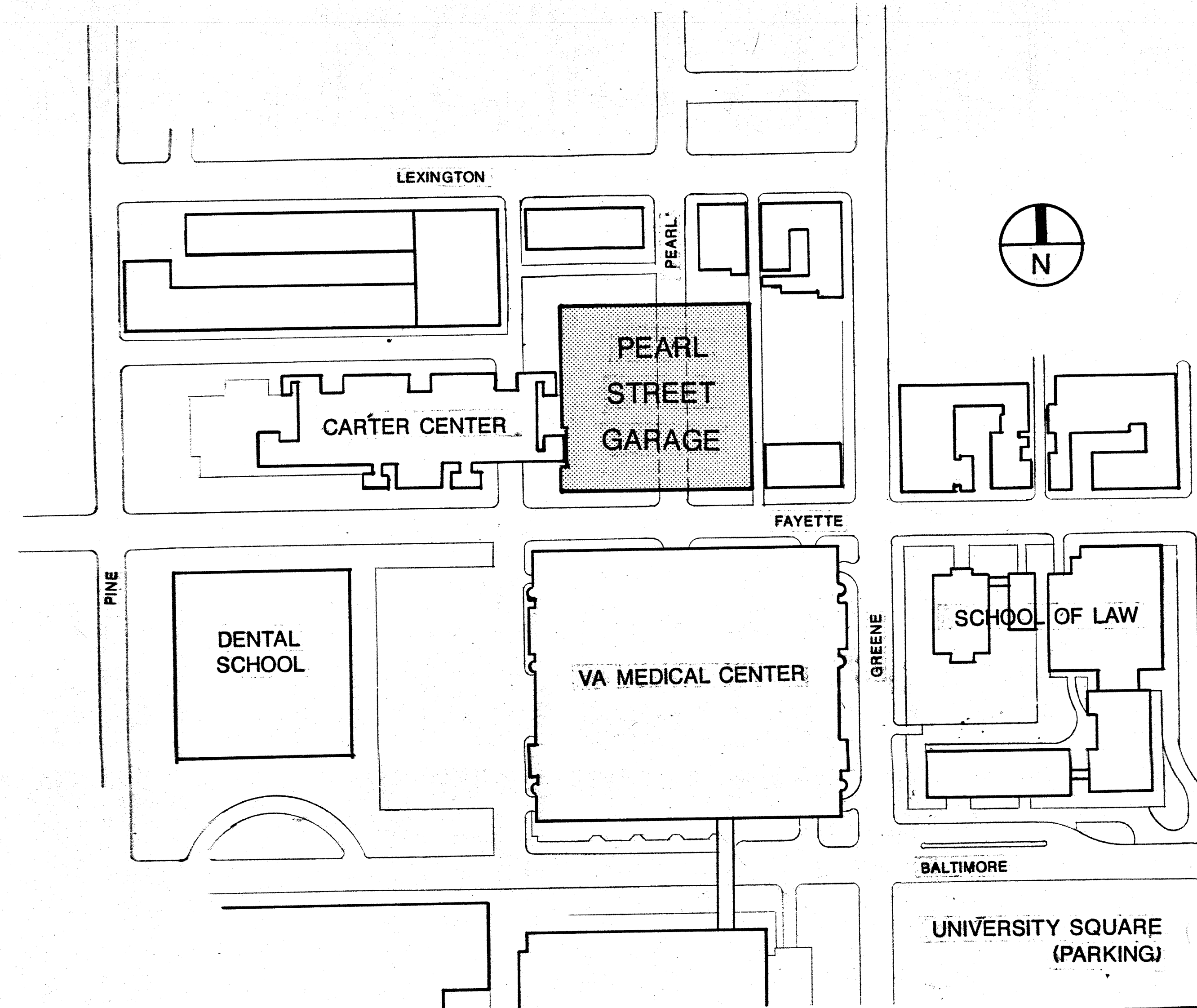
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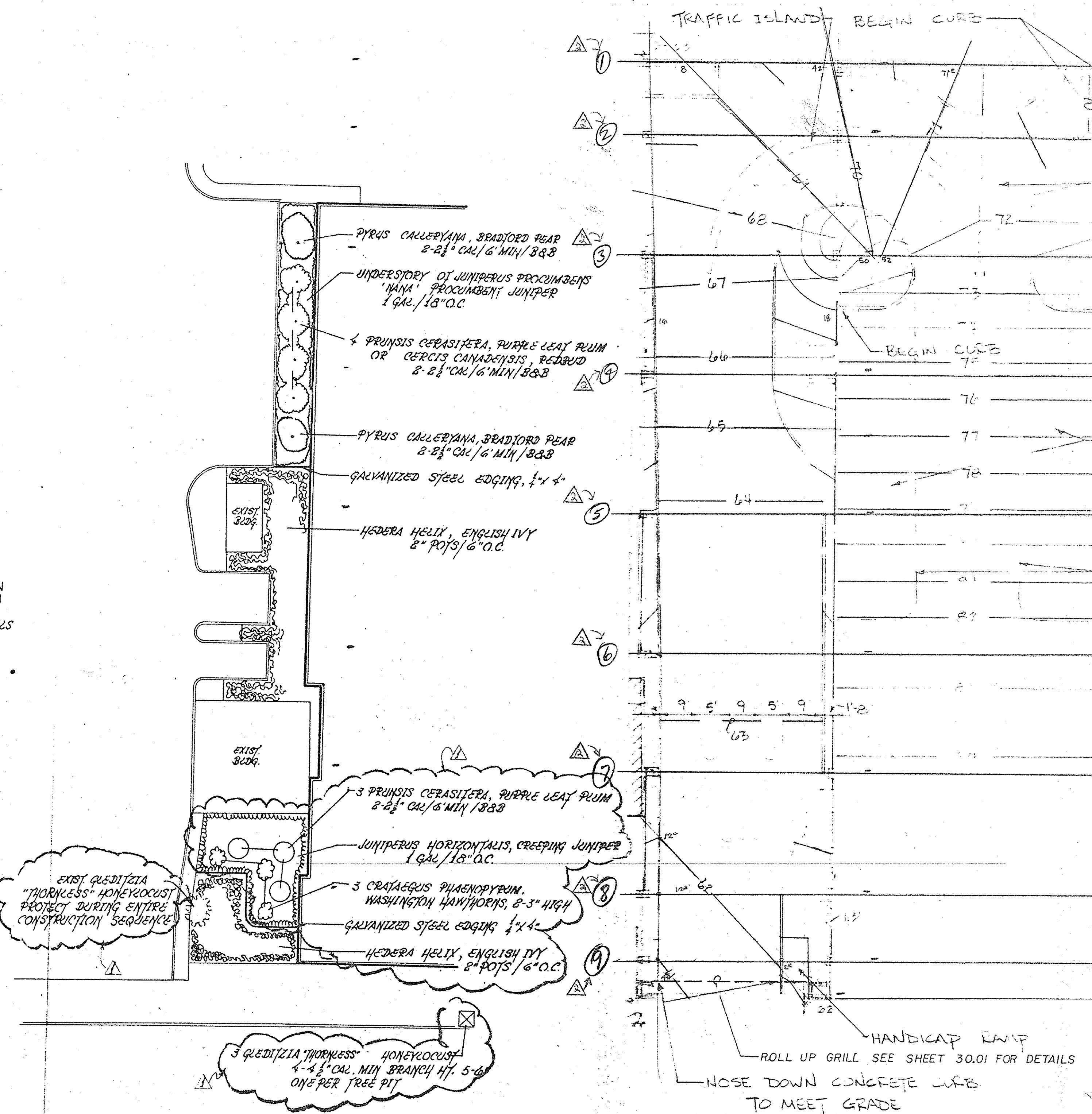
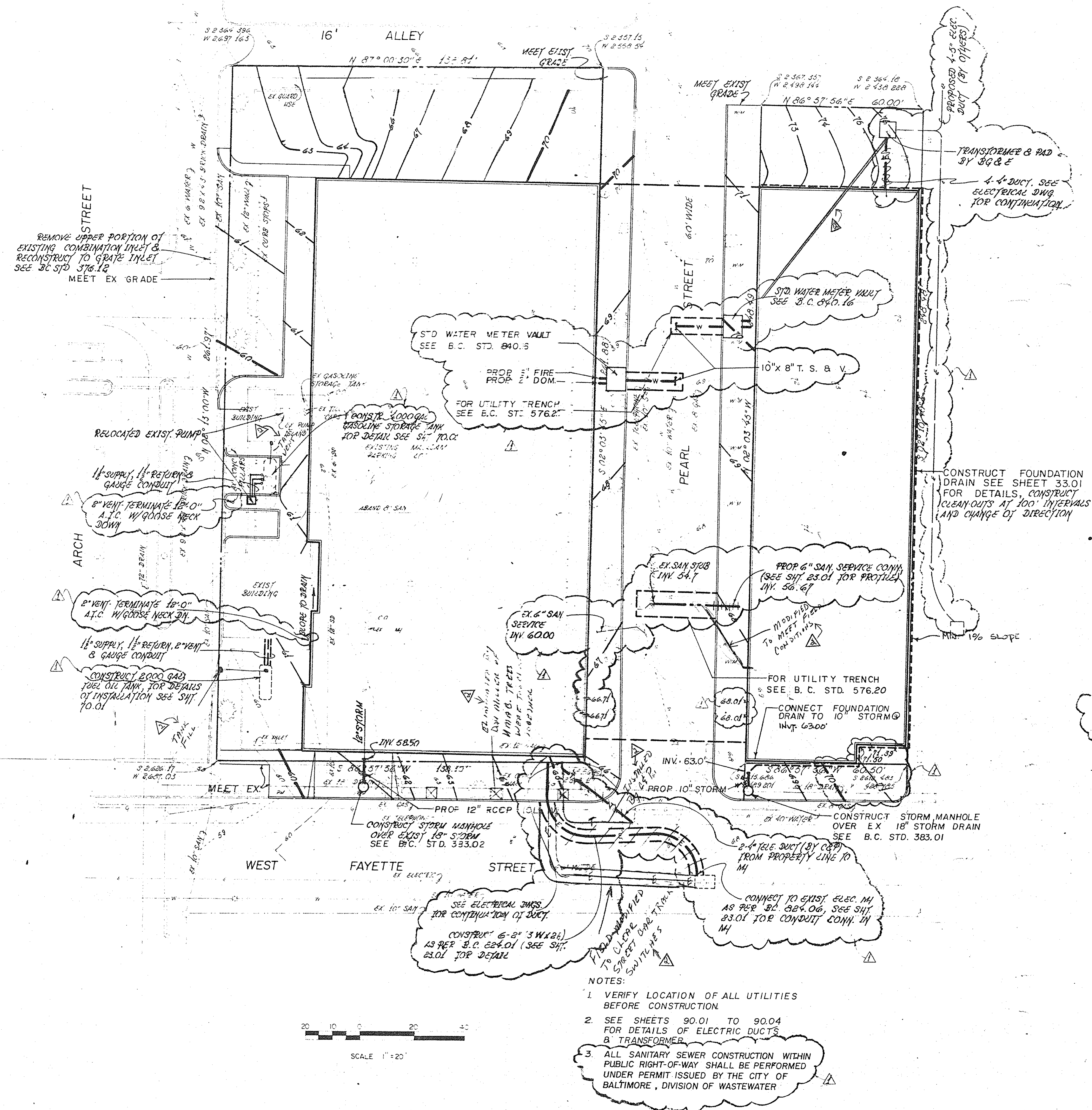
WHITE MARSH, MD. 21162

RTKL ASSOCIATES INC.
ARCHITECTS & ENGINEERS

400 EAST PRATT STREET

BALTIMORE MD. 21202

[illegible]



LANDSCAPE PLAN
SCALE 1" = 20'

RAMP PLAN
SCALE 1/16" = 1'-0"

- NOTES:
1. VERIFY LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION.
 2. SEE SHEETS 90.01 TO 90.04 FOR DETAILS OF ELECTRIC DUCTS & TRANSFORMER.
 3. ALL SANITARY SEWER CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED UNDER PERMIT ISSUED BY THE CITY OF BALTIMORE, DIVISION OF WASTEWATER.

PEARL STREET GARAGE UNIVERSITY of MARYLAND at BALTIMORE, MARYLAND 21201

UMAB project no. 85 304 A

Approvals	
Director of Physical Plant	Project Architect
Department of General Services	Director of Engineering and Construction

REVISIONS			
No.	Date	Item	By
1		ADDITION 1	
2		As-Built	

J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
11150 Pulaski Highway White Marsh, MD 21202

RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

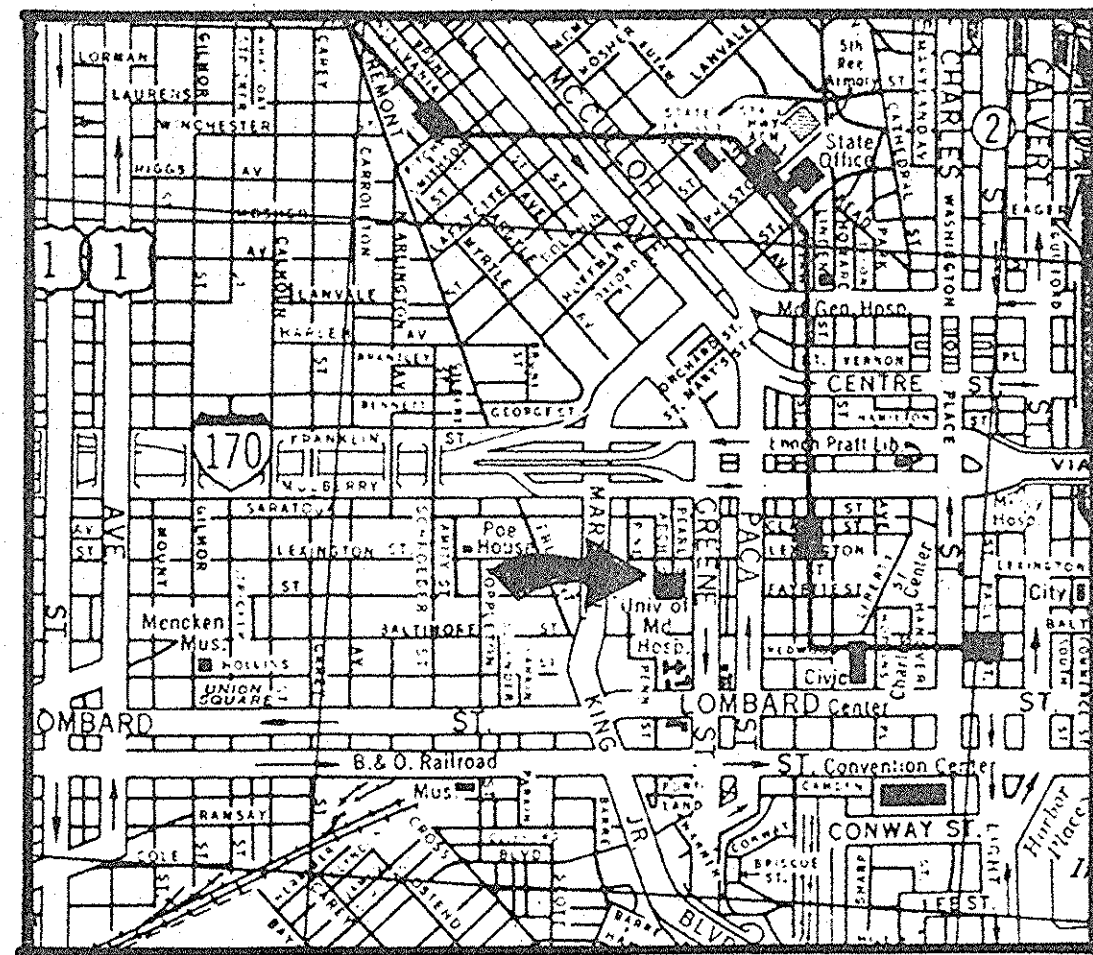
Title: GRADING & UTILITY PLAN

Contr. No. 8527500

Scale 1" = 20'

Date 12/20/18

Sheet 21



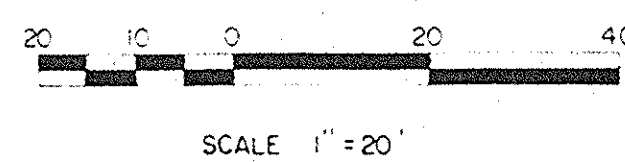
LOCATION MAP

STREET

ARCH

WEST LEXINGTON STREET

WEST FAYETTE STREET 66' WIDE



NOTE: CONTRACT HEAVY DUTY STABILIZED CONSTRUCTION ENTRANCES (2) AS SHOWN. EXACT LOCATION AT CONTRACTORS OPTION. ENTRANCES SHALL BE RECONSTRUCTED AS OFTEN AS NECESSARY DURING CONSTRUCTION PERIOD TO ENSURE CONTINUOUS USAGE AT ALL TIMES

LEGEND

- LIMIT OF DISTURBANCE
- SUMP PIT
- INLET PROTECTION
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED BUILDING

SEDIMENT CONTROL NOTES

- THE CONTRACTOR SHALL NOTIFY IN WRITING THE WATER RESOURCES ADMINISTRATION DIVISION AT LEAST FIVE WORKING DAYS PRIOR TO STARTING ANY WORK (301) 269-2641.
- ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN SEVEN CALENDAR DAYS. ALL OTHER DISTURBED AREAS ON THE PROJECT MUST BE STABILIZED WITHIN FOURTEEN CALENDAR DAYS.
- CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES WILL BE REQUIRED.
- NO ON SITE STOCKPILING OF BULK EXCAVATION WILL BE PERMITTED. EXCAVATED MATERIAL SHALL IMMEDIATELY BE PLACED IN EMBANKMENT OR REMOVED FROM THE SITE.
- ROADS ARE TO BE KEPT CLEAN OF SOIL DROPPINGS AT ALL TIMES.
- PRIOR TO THE START OF WORK, THE CONTRACTOR IS TO OBTAIN WRA APPROVAL OF ANY PROPOSED PLAN CHANGES AND SEQUENCE OF CONSTRUCTION, SPECIFICALLY RELATING TO INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.
- SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL THE AREAS SERVED HAVE ESTABLISHED VEGETATIVE COVER, OR WITH THE PERMISSION OF THE WRA ENFORCEMENT INSPECTOR.
- WHEN PUMPING SEDIMENT-LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
- ALL TEMPORARY STOCKPILES ARE TO BE LOCATED WITHIN AREAS PROTECTED BY SEDIMENT CONTROL MEASURES, AND ARE TO BE TEMPORARILY STABILIZED.
- ALL SEDIMENT CONTROL DIKES, SWALES, BASINS AND FLOW LINES TO BASINS WILL BE TEMPORARILY SEEDED IMMEDIATELY UPON INSTALLATION TO REDUCE THE CONTRIBUTION TO SEDIMENT LOADING.
- DISPOSAL OF EXCESS EARTH MATERIALS ON STATE OR FEDERAL PROPERTY REQUIRES WRA APPROVAL. OTHERWISE MATERIALS ARE TO BE DISPOSED OF AT A LOCATION APPROVED BY THE LOCAL AUTHORITY.
- TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED AS PER THE APPROVED PLAN PRIOR TO GRADING OPERATIONS. LOCATION ADJUSTMENTS ARE TO BE MADE IN THE FIELD AS NECESSARY. THE MINIMUM AREA PRACTICAL SHALL BE DISTURBED FOR THE MINIMUM POSSIBLE TIME.
- IF GRADING IS COMPLETED OUT OF A SEEDING SEASON, GRADED AREAS ARE TO BE TEMPORARILY STABILIZED BY MULCH AND MULCH ANCHORING. MULCH MATERIAL SHALL BE UNWEATHERED, UNCHIPPED SMALL GRAIN STRAW SPREAD AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE. MULCH ANCHORING TO BE ACCOMPLISHED BY AN APPROVED METHOD, USE OF A MULCH ANCHORING TOOL IS RECOMMENDED WHERE POSSIBLE.
- IMPLEMENTATION OF THE SEDIMENT CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", OF THE DEPARTMENT OF NATURAL RESOURCES.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE APPROVED PLAN, AND ALL OTHER MEASURES NECESSARY TO CONTROL, FILTER, OR PREVENT SEDIMENT FROM LEAVING THE SITE.

SITE DATA:

- TOTAL DISTURBED AREA IS 63,000 SF.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL EARTHWORK AS REQUIRED. THE FOLLOWING QUANTITIES ARE ESTIMATED:
SITE EXCAVATION TO BE WASTED OFF-SITE 5300 CY.
SITE EXCAVATION TO BE REUSED ON-SITE 800 CY.
NO BORROW EXCAVATION IS ANTICIPATED.

DRAINAGE AREA INFORMATION

- SITE IS NOT SUBJECT TO 100 YEAR FLOOD PLAIN.
- PRE-DEVELOPMENT DRAINAGE CONDITIONS: THE ENTIRE SITE IS NEARLY COMPLETELY COVERED BY PAVEMENTS AND IMPERVIOUS SURFACES (63,000 SF.) A PORTION OF THE SITE DRAINS OVERLAND TO STRUCTURED STORM DRAINAGE AT PEARL STREET. THE REMAINDER OF THE SITE DRAINS TO STRUCTURED STORM DRAINS LOCATED ON SITE. THE EXISTING STORM DRAINS EMPTY INTO THE STRUCTURED STORM DRAINS LOCATED IN WEST FAYETTE STREET.
- POST DEVELOPMENT DRAINAGE CONDITIONS ARE AS FOLLOWS:
 - BUILDING (DRAINAGE SYSTEM OUTLETING INTO PEARL STREET): 36,100 SF.
 - SIDEWALK AND MISCELLANEOUS PAVEMENTS (OVERLAND TO ADJACENT GUTTERS): 16,400 SF.
 - LANDSCAPED AREA (OVERLAND TO ADJACENT GUTTERS): 10,500 SF.

Owners/Developers Certification

"I/We hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certification of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."

Donald Miller
Construction Engineer
University of Maryland at Baltimore
737 West Lombard Street
Baltimore, MD 21201
(301) 528-7291

Date

SEQUENCE OF OPERATIONS

PHASE 1

- OBTAIN PROPER PERMITS
- CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION 5 DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY TO THE STATE OF MARYLAND WATER RESOURCES ADMINISTRATION STATING:
 - WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION.
 - SOURCE OF BORROW MATERIAL.
 - DISPOSAL SITE AREA.
 - CONTRACTOR'S TENTATIVE CLOSING DATE.
- CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCES, INLET SILT TRAPS, AND SILT FENCE.
- DEMOLITION OF PARKING LOT, BLOCK WALL, ETC.
- ROUGH GRADE SITE.
- CONSTRUCT SHEETING.
- EXCAVATE FOR PROPOSED BUILDING BASEMENT.
- CONSTRUCT SUMP PITS.
- PLUG AND ABANDON EXISTING STORM DRAINS.
- REMOVE INLET SILT TRAPS. REMOVE INLET GRATES, COVER AND ABANDON EXISTING INLETS.
- EXCAVATE FOR REMAINDER OF PROPOSED BUILDING STRUCTURE INCLUDING RELATED FOUNDATIONS.
- EJECT BUILDING STRUCTURE.
- COMPLETE FINE GRADING FOR PAVEMENTS.
- INSTALL PAVEMENTS.
- REMOVE SEDIMENT CONTROL WITH PRIOR WRITTEN APPROVAL FROM THE WRA WHEN STABILIZATION IS EVIDENT ON THE PROJECT.
- FINE GRADE ALL REMAINING AREAS AND STABILIZE AS SPECIFIED BY THE APPROVED SEDIMENT CONTROL PLAN FOR PROJECT SITE.

SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT

SITE PREPARATION

- Temporary silt fences and stabilized construction entrance are to be provided as per this plan prior to grading operations with location adjustments to be made in the field as necessary and to be maintained at the end of working day. The minimum area practical shall be disturbed for the minimum amount of time possible.
- Permanent seeding:
 - Seeding preparation: Area to be seeded shall be loose and friable to a depth of at least 3-inch. The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. In lieu of soil test results, apply 50 pounds of dolomitic limestone and 25 pounds of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3-inch on slopes flatter than 3:1. No attempt should be made to drag any disked area to make the soil surface smooth after disking.
 - Seeding: Apply 5-6 pounds per 1,000 square feet of Kentucky 31 tall fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly with a cyclone seeder drill, cultipacker seeder or hydroseeder (Slurry includes seeds and fertilizer, recommended on steep slopes only) on a moist, firm seedbed. Maximum seed depth should be 1/4-inch in clayey soils and 1/2-inch in sandy soils when using other than the hydroseeder method. Irrigate if soil moisture is deficient to support adequate growth, until vegetation is firmly established.
 - Mulching: Mulch shall be unchopped, unrotted, small grain straw applied at a rate of 70 to 90 pounds per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds which are: Canada Thistle, Johnsongrass and Quackgrass. Spread mulch mechanically or uniformly by hand; mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by peg and twine method, mulch anchoring tool, netting or liquid mulch binders.
- Temporary Seeding:
 - Lime: 50 lbs of dolomitic limestone per 1,000 square feet
 - Fertilizer: 15 lbs of 10-10-10 per 1,000 square feet
 - Seed: Perennial rye, Italian rye - 3.2 lbs; per 1,000 square feet (Feb. 1 through April 30 or August 15 through Nov. 30)
 - Millet - 0.92 lbs per 1,000 square feet (May 1 - August 15)
- Mulch: Same as above (Nov. 2 through Jan. 31, use mulch only)
- No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8-inch. All fill in roadways and parking areas is to be classified Type 2 and compacted to 95% density; compaction to be determined by ASTM D 1557 (Modified Proctor). Any fill within building area to be compacted to a minimum of 95% as determined by methods previously mentioned. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

NOTE: Use of this information does not preclude meeting all of the requirements of the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas".

RECORD DRAWING
DATE 5/14/88

PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201
UMAB project no. 85 304 A

Approvals

Director of Physical Plant
Project Architect
Department of General Services
Project Administrator
Director of Engineering and Construction

No.	Date	Item	No.	Date	Item
1	5/14/88	ADDENDUM 1			
REVISIONS					

Seal
Drawn
Checked
Approved

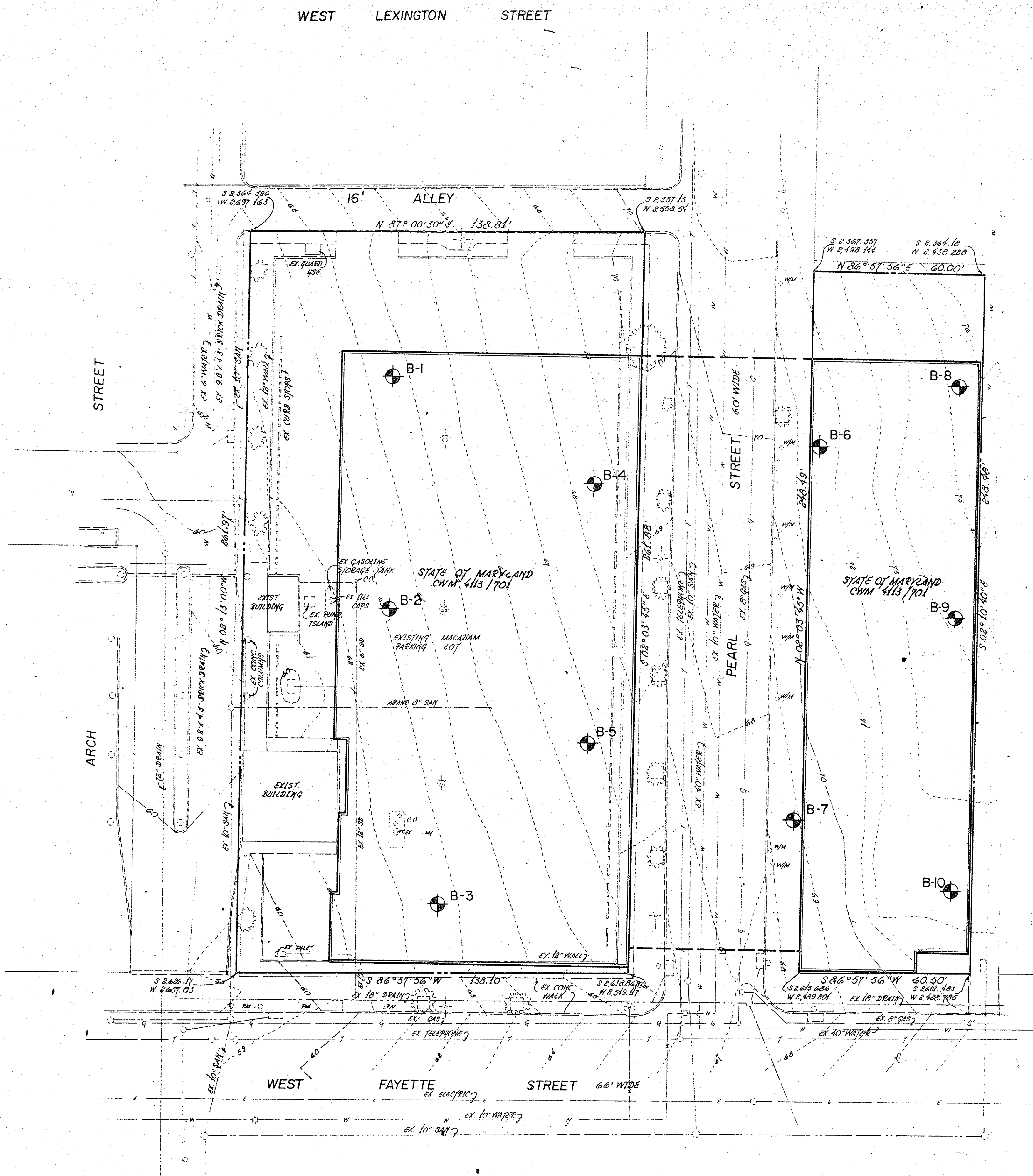
J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
11150 Pulaski Highway - White Marsh, MD 21162

RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

SEDIMENT CONTROL PLAN

Contr. No. 8527600
Scale 1" = 20'
Date 05/14/88
Last Rev. 01

Contr.No.	8527800	23
Scale	43 S/1044	
Date	85 JULY 1994	
Last Rev.	12/17/86	01



NOTES

1) BEARINGS SHOWN ON THIS DRAWING REFER TO THE TRUE MERIDIAN AS ADOPTED BY THE BALTIMORE CITY SURVEY CONTROL SYSTEM.

2) ELEVATIONS ARE BASED ON BALTIMORE CITY DATUM:
BENCH MARK 8596 ELEV. 69.42
BRASS SCREW IN N.W. CORNER OF CONCRETE RETAINING WALL @ S.E. CORNER OF FAYETTE ST AND PINE ST

3) BORING LOGS ARE AVAILABLE THROUGH THE GENERAL CONTRACTOR.

RECORD DRAWING
DATE: 5/15/88

PEARL STREET GARAGE

UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201

UMAB project no. 85 304 A

Approvals	
Director of Physical Plant	Project Architect
Department of General Services, Project Administrator	Director of Engineering and Construction

No.	Date	Item	No.	Date	Item
1	5/15/88	AS-BUILT			
REVISIONS					

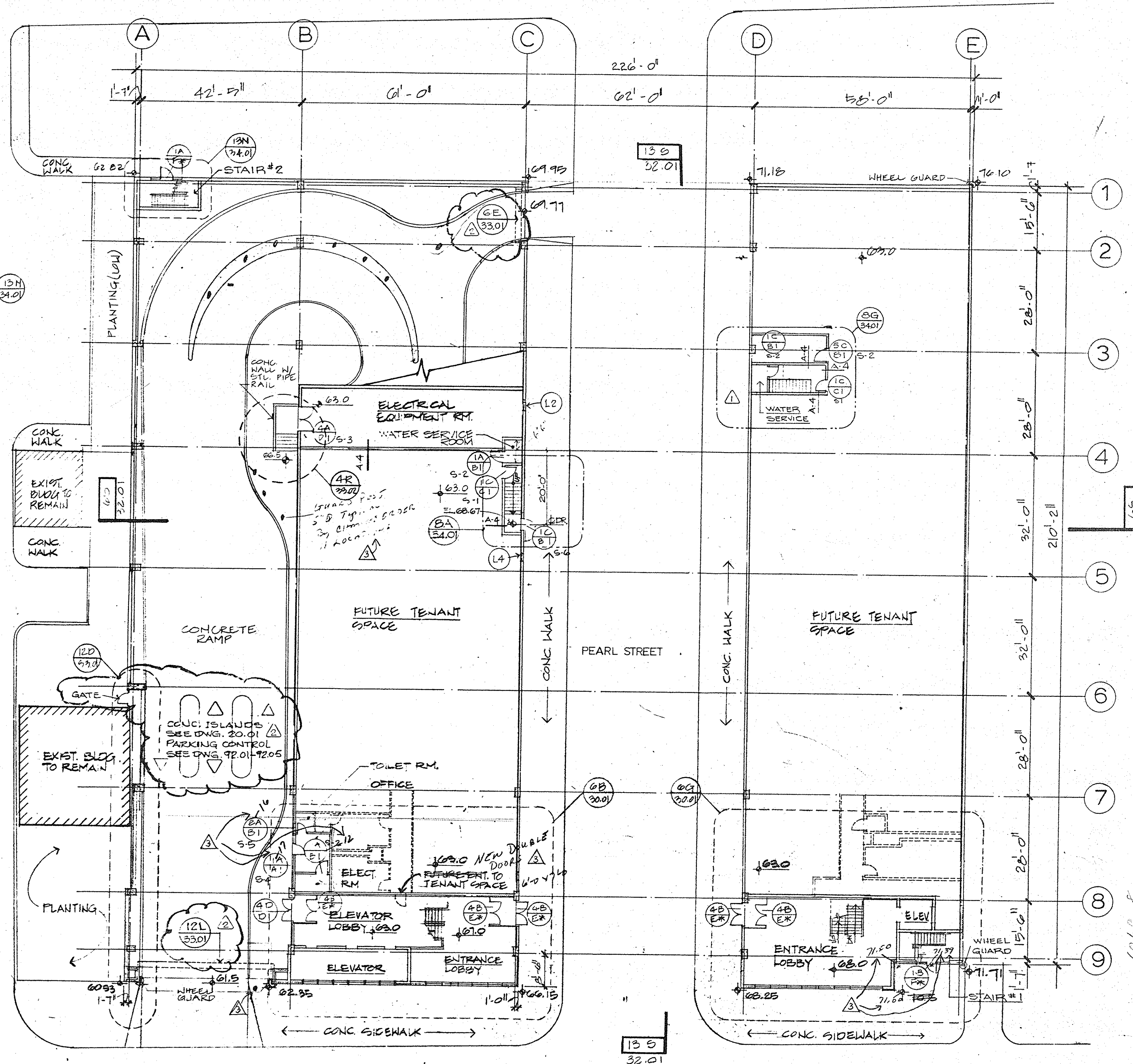
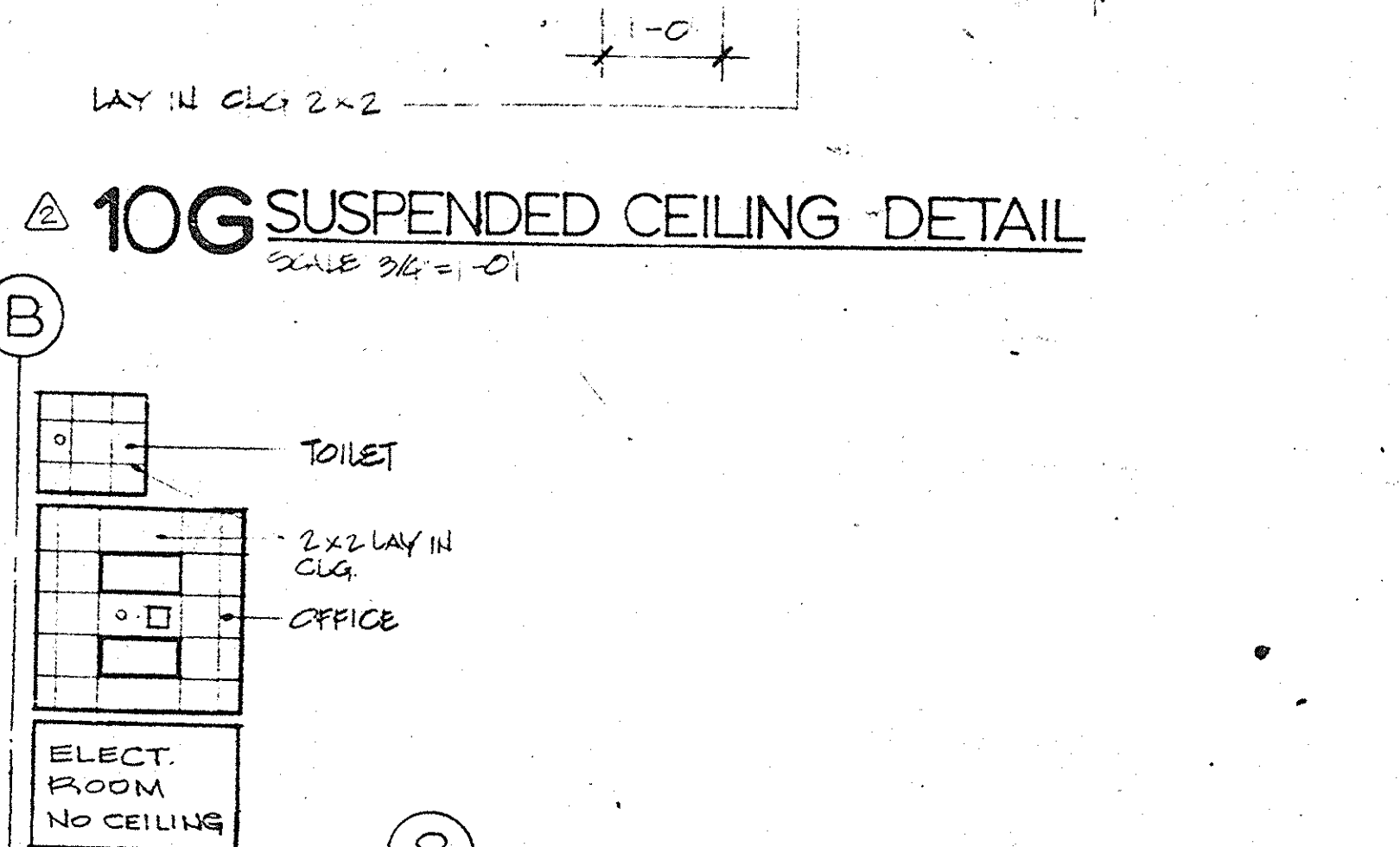
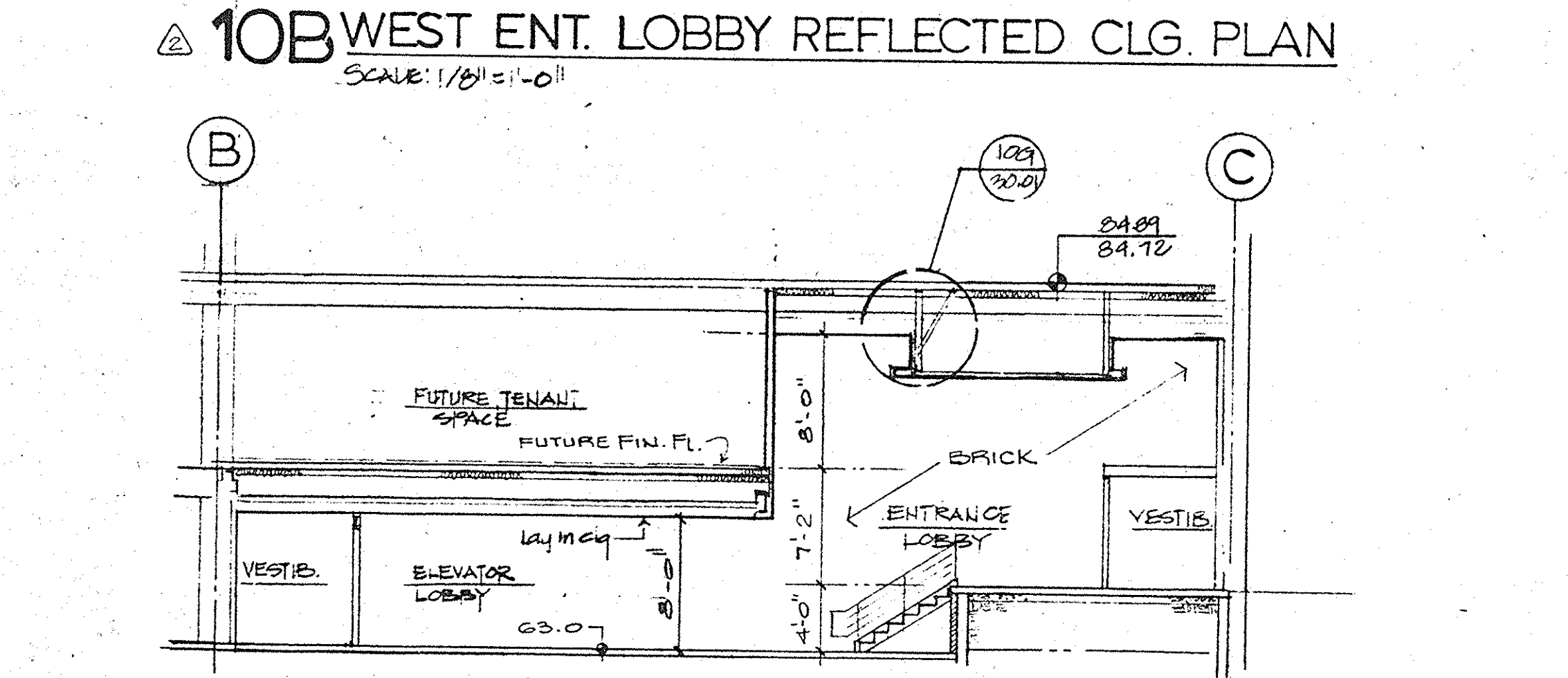
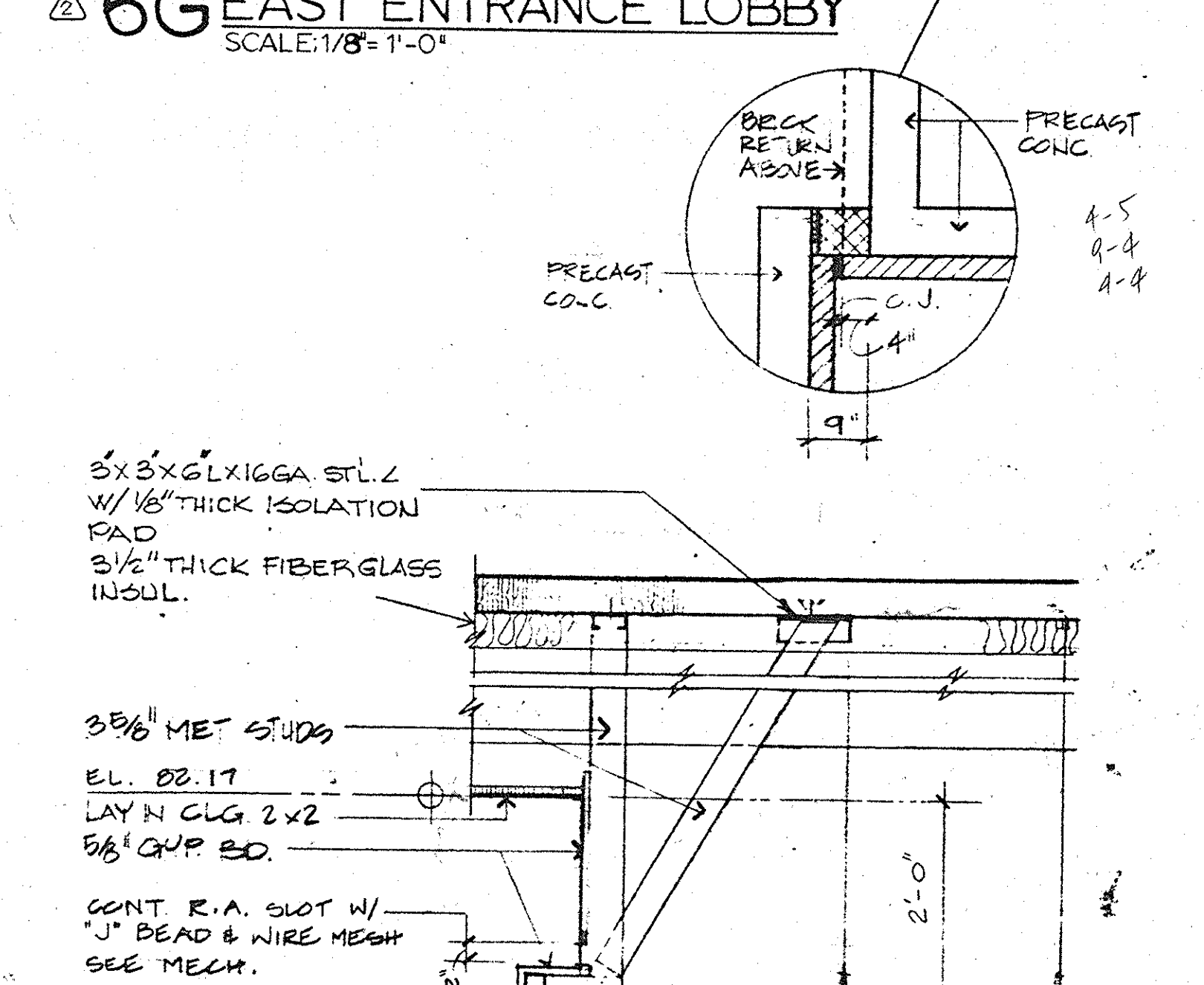
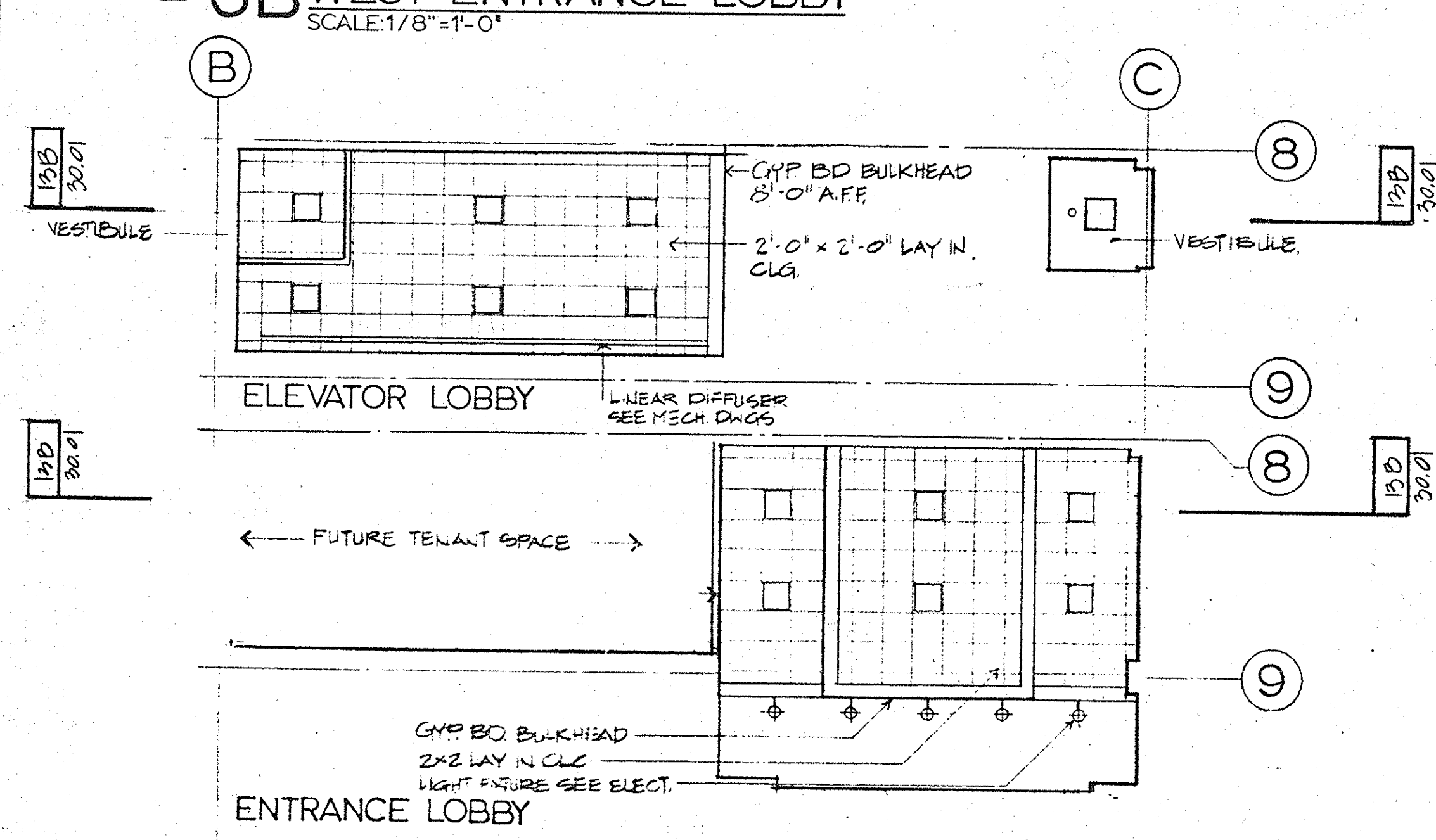
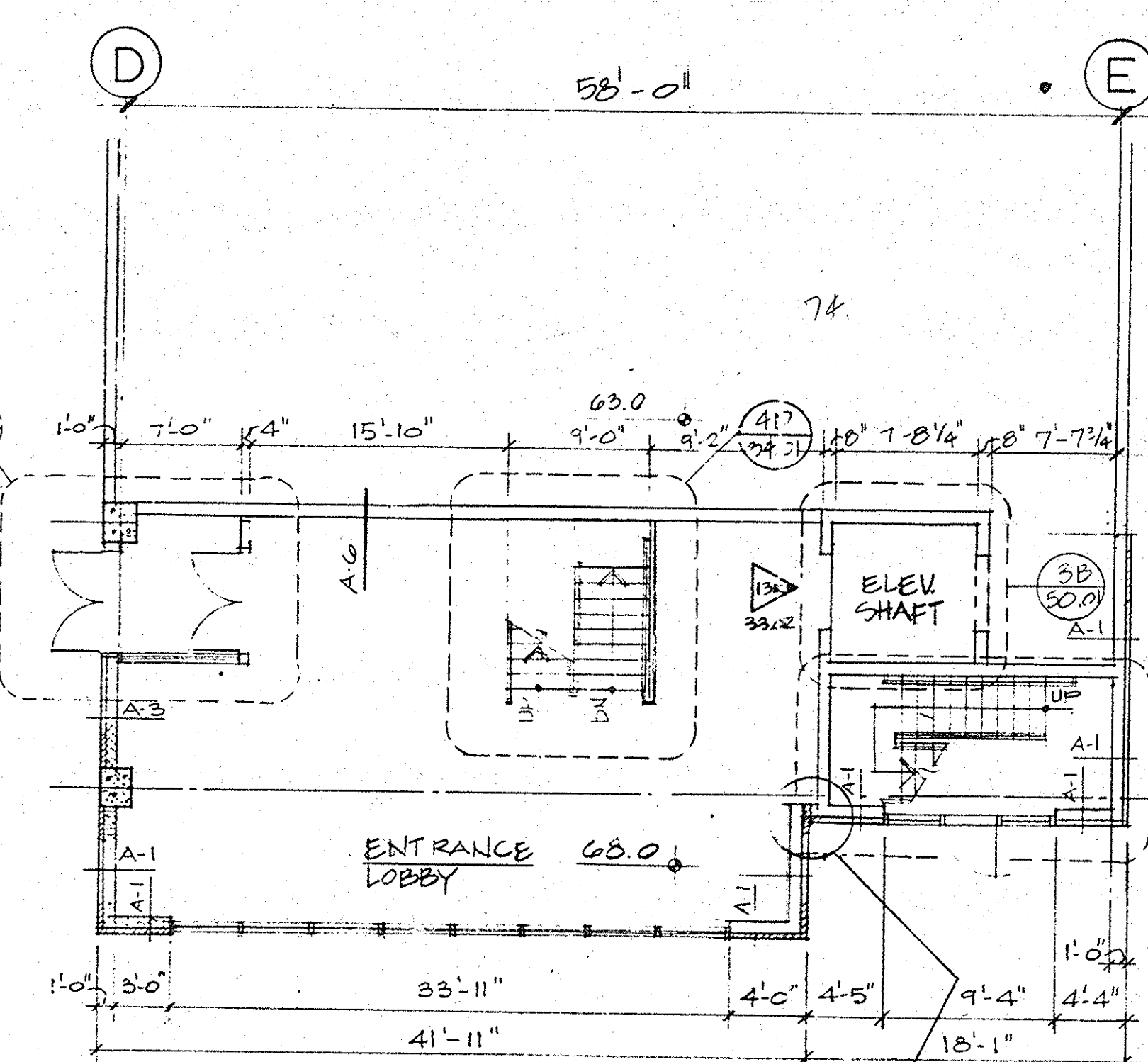
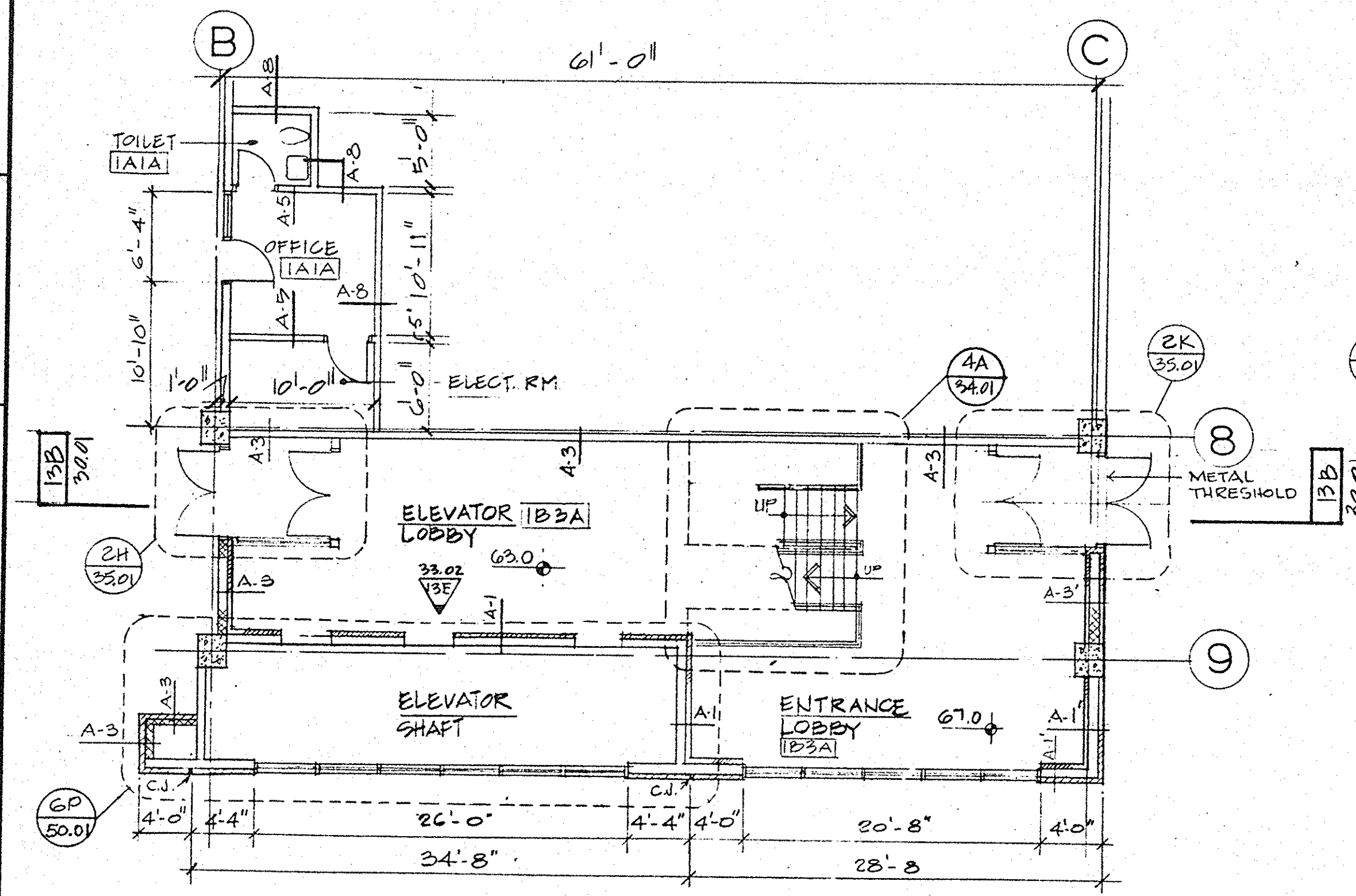
Seal
Drawn
Checked
Approved

VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
11750 Pulaski Highway White Marsh, MD 21162

RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

Title	
SITE SURVEY & SOIL BORING PLAN	
Contr. No.	8527800
Scale	1" = 20'
Date	25 JUL 1988
Last Rev.	01





PRIOR TO DRILLING OR SHOOTING INTO PRECAST CONCRETE, COORDINATE LOCATIONS TO AVOID CONTACT WITH PRESTRESSING STRANDS. DAMAGE TO THE STRANDS MAY RESULT IN STRUCTURAL FAILURE.

PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201
 UMB project no. 85 304 A

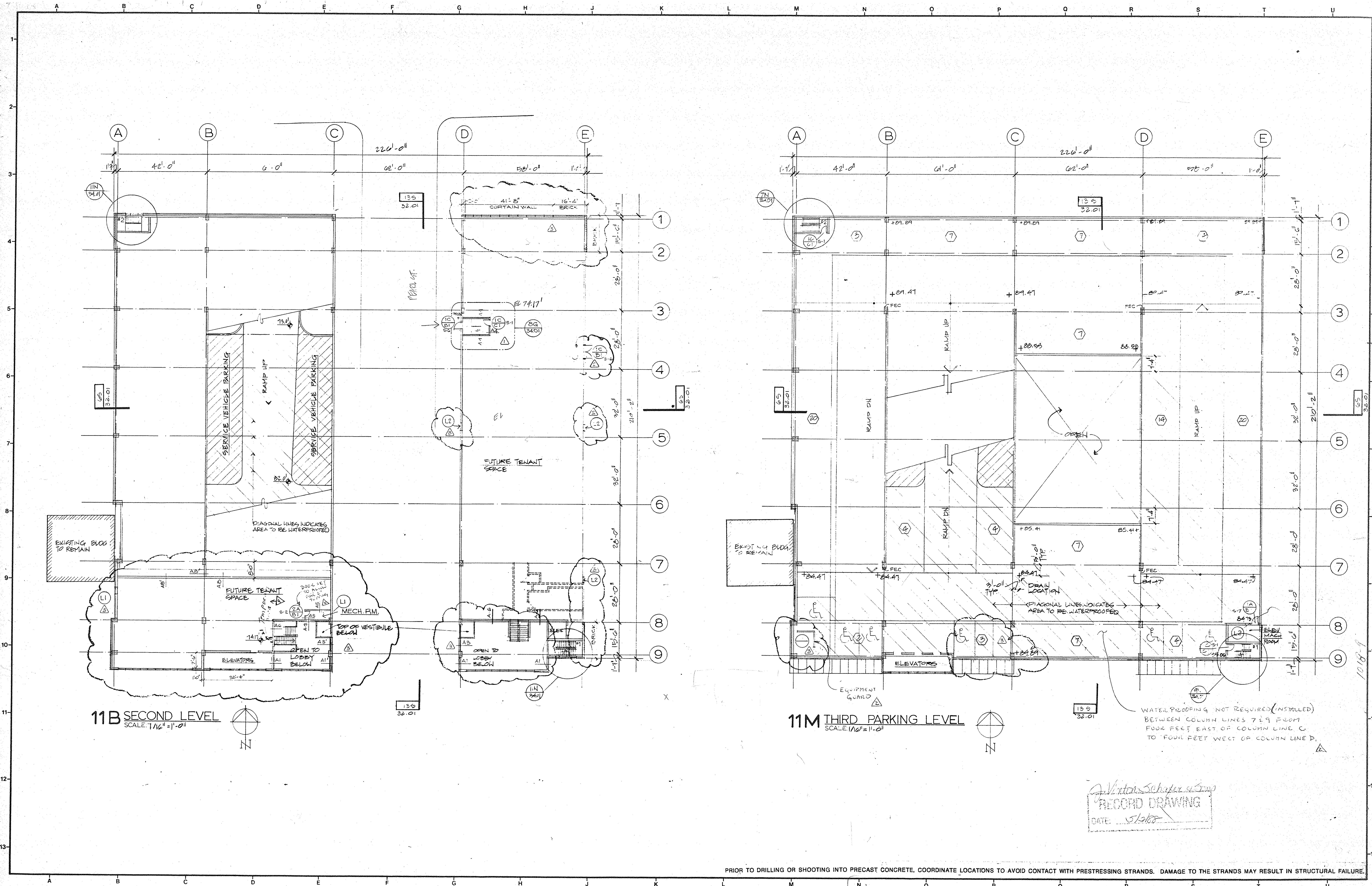
Approvals	
Director of Physical Plant	Project Architect
Department of General Services, Project Administrator	Director of Engineering and Construction

1	10/27/84	ELEVATOR STAIR-11M/CS			
2	12/18/84	ADDENDUM #1			
3	5/13/85	AS-BUILT			
No.	Date	Item	No.	Date	Item
REVISIONS					

J. VINTON SCHAFER & SONS, INC.
 GENERAL CONTRACTORS
 11150 Pulaski Highway - White Marsh, MD 21162

RTKL ASSOCIATES INC.
 400 East Pratt Street
 Baltimore Maryland 21202

Conr. No. 8527800
 Scale
 Date 5/13/85
 Last Rev. 12-17-86



Victor Schaefer
RECORD DRAWING
DATE: 5/5/88

PEARL STREET GARAGE

UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201

UMAB project no. 85 304 A

Approvals

Director of Physical Plant

Project Architect

Department of General Services,
Project Administrator

Director of Engineering and
Construction

- 10/27/84 RELOCATE STAIR-11B/23
- 10/27/84 ADD DOOR-11B/E4
- 12/17/84 ADDENDUM #1
- 5/2/88 AS-BUILT

No.	Date	Item	No.	Date	Item

REVISIONS

Seal

Drawn

Checked

Approved



J. VINTON SCHAEFER & SONS, INC.
GENERAL CONTRACTORS
11150 Pulaski Highway, White Marsh, MD 21222



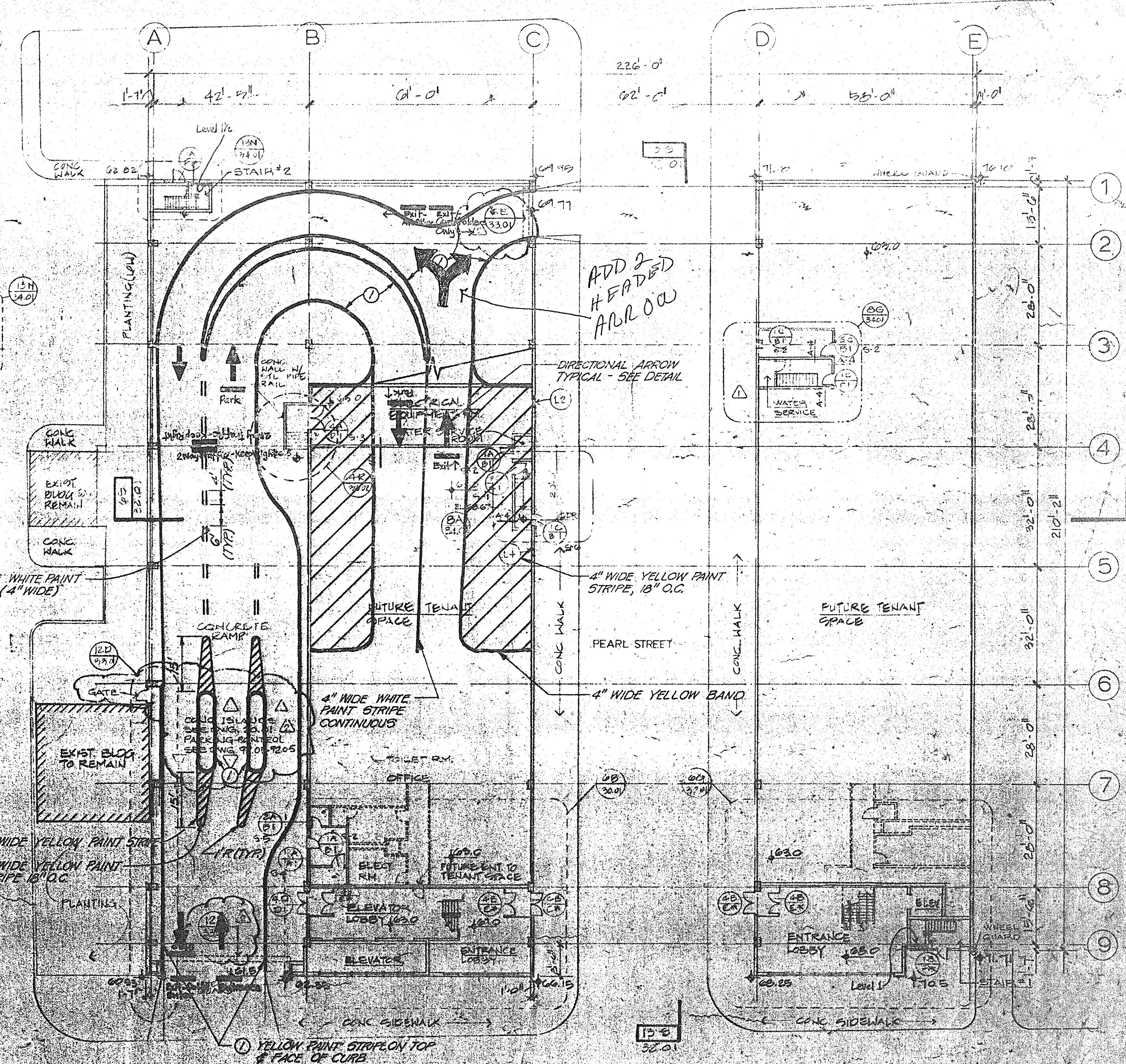
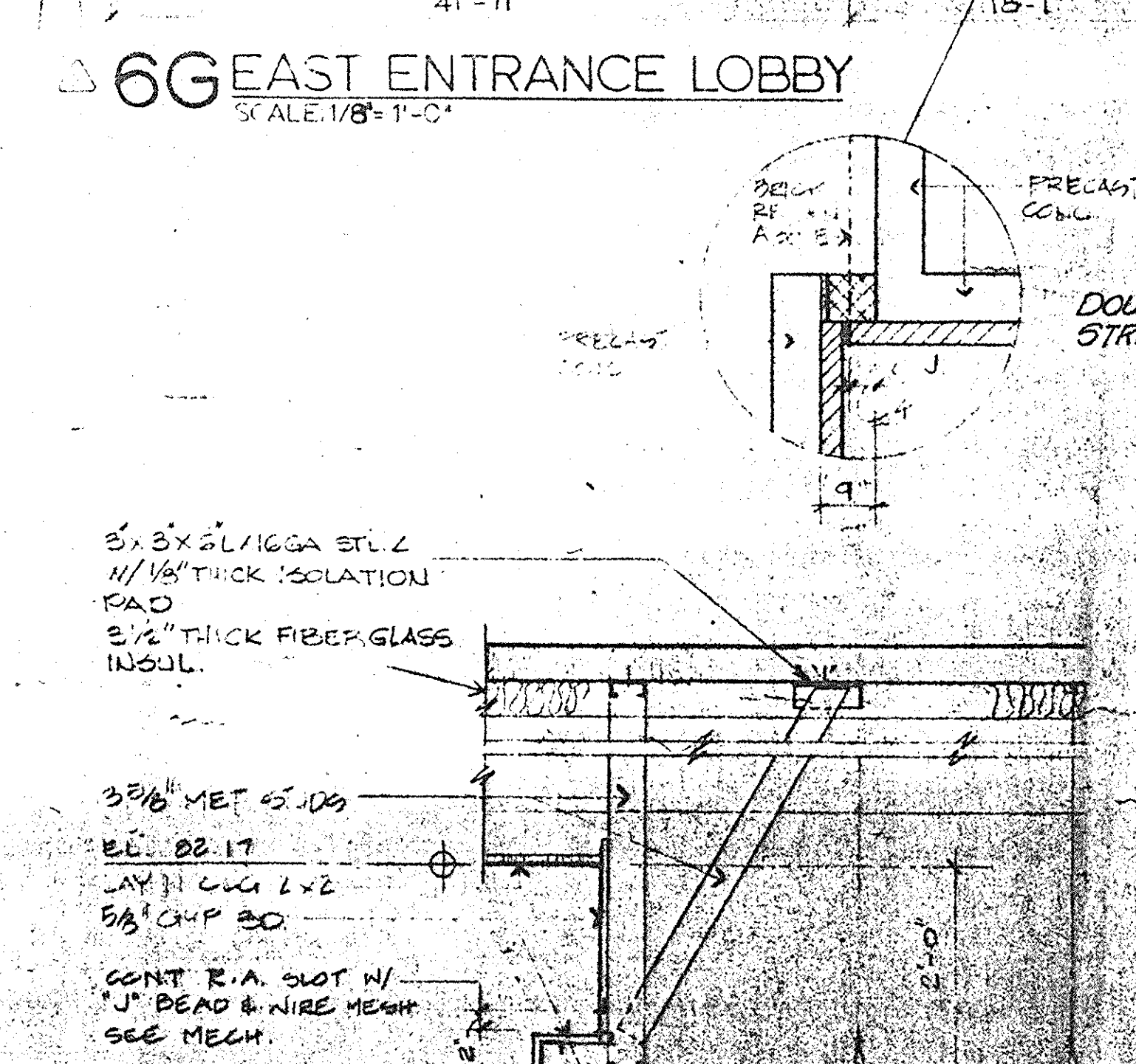
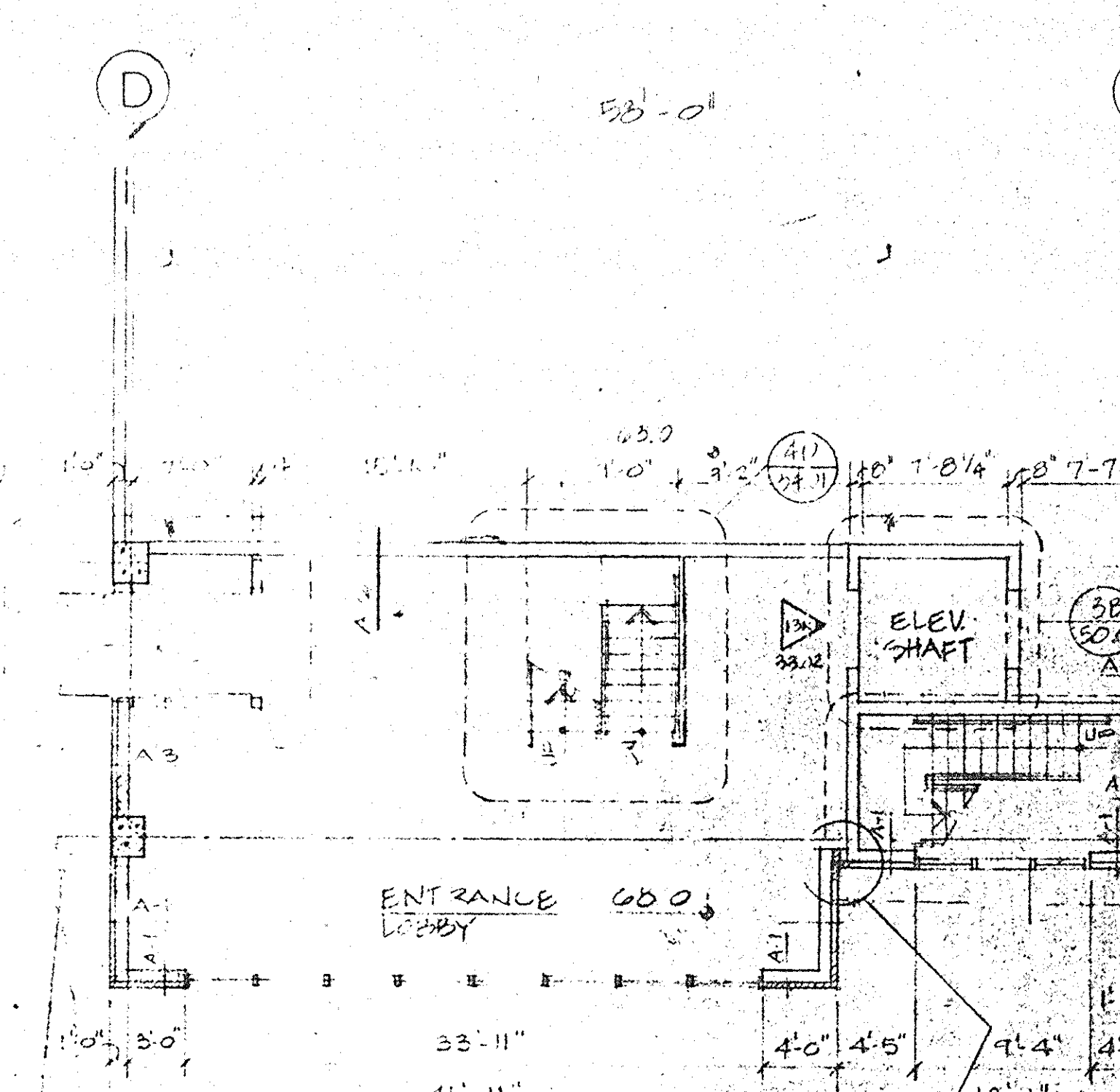
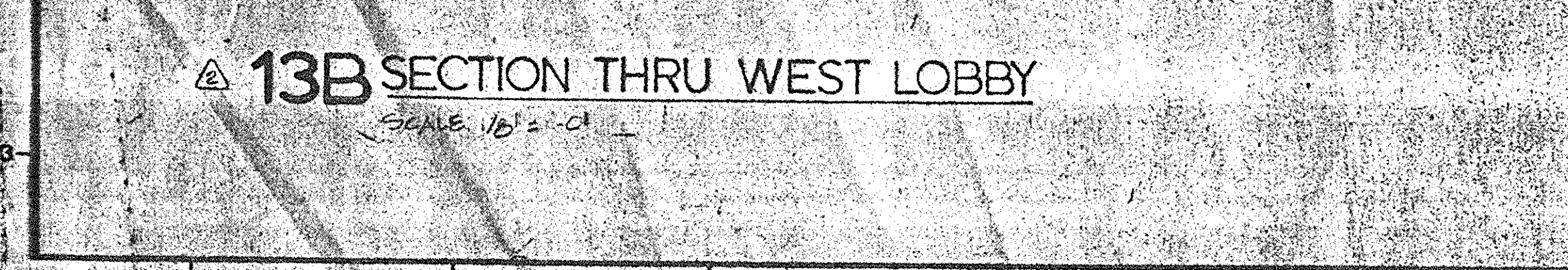
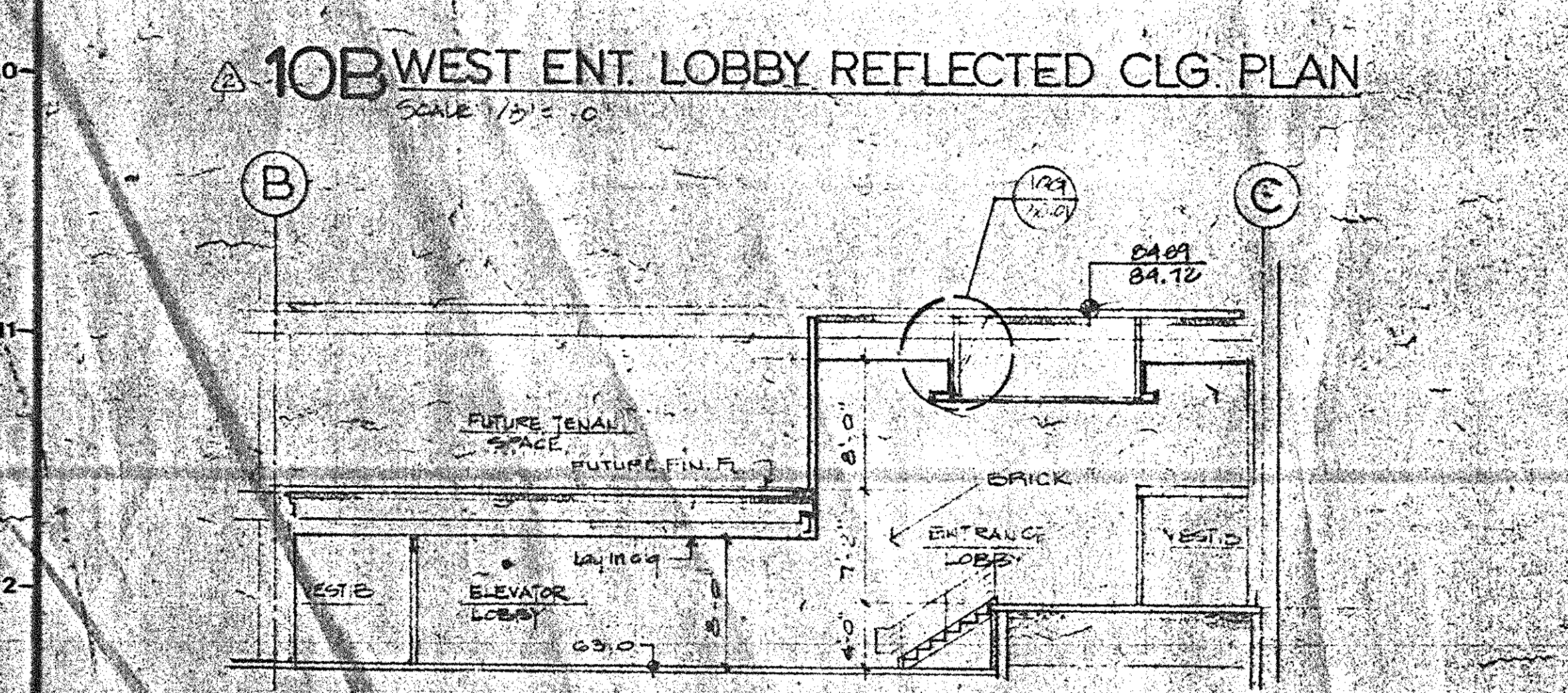
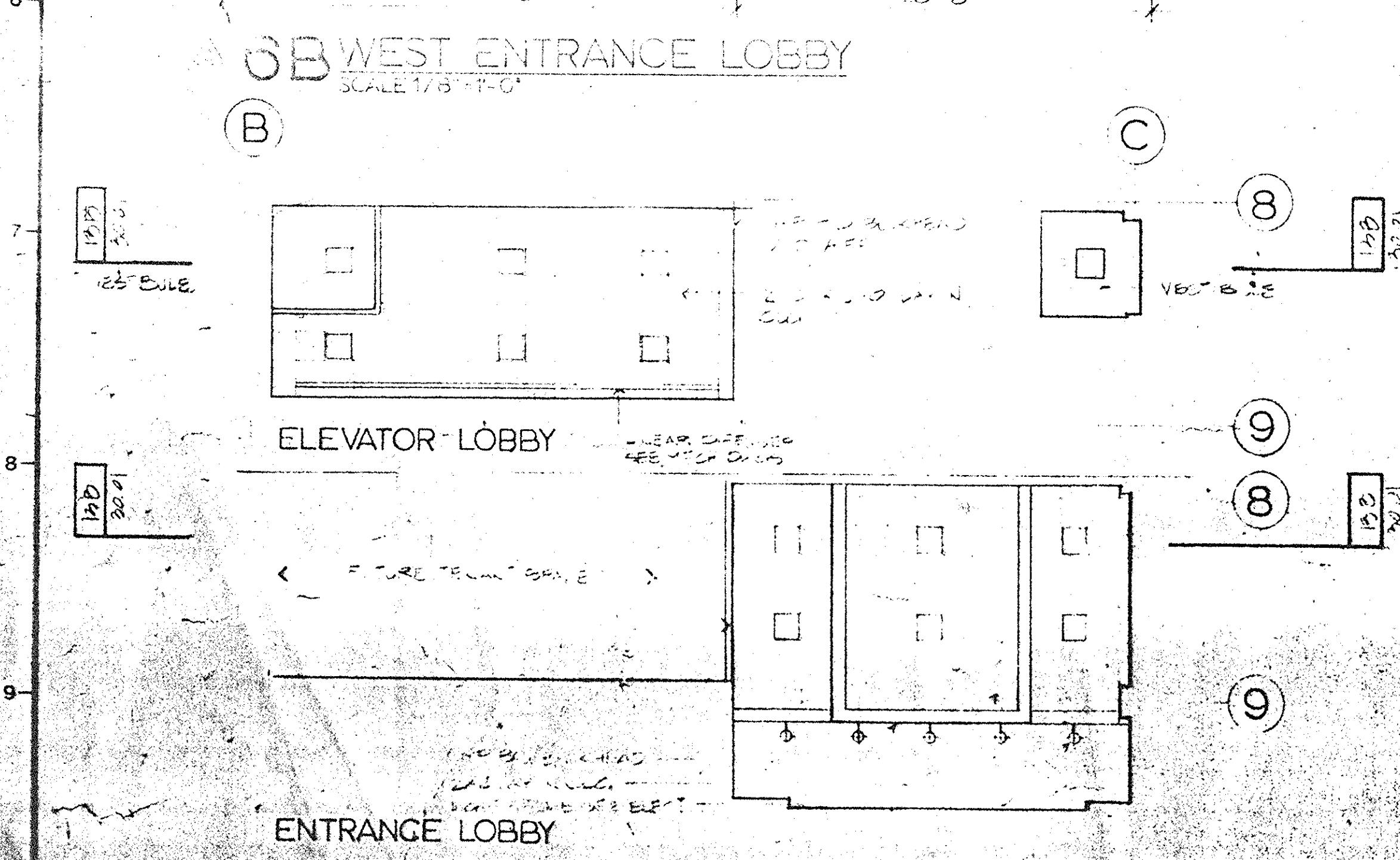
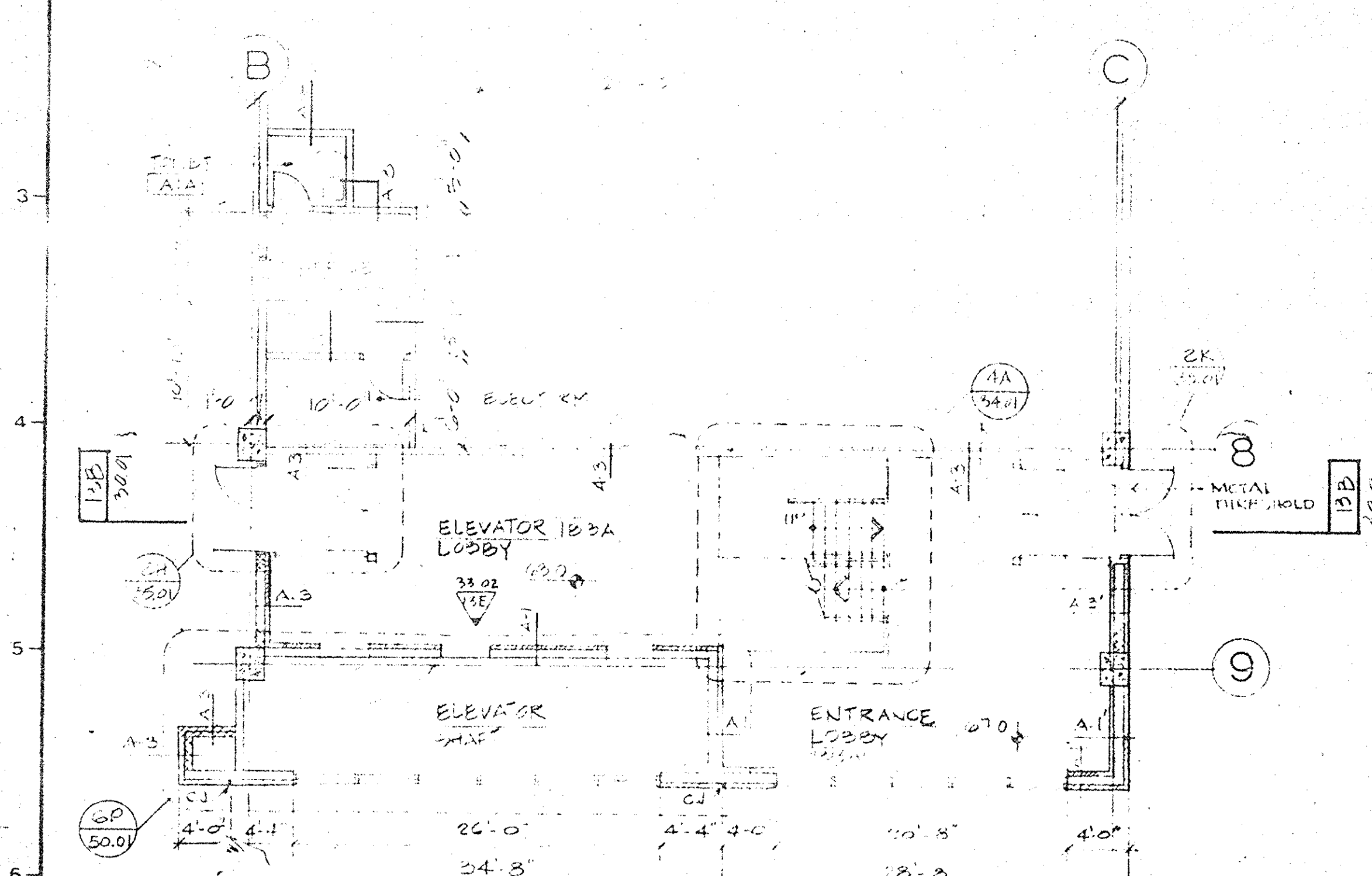
RTKL ASSOCIATES, INC.
400 East Pratt Street
Baltimore, Maryland 21202

Title
SECOND & THIRD
LEVEL PLANS

Contr. No. 8527800
Scale AS NOTED
Date 7-25-84
Last Rev. 12-17-86

30

0



APPROVED AS CORRECTED
REVISE AND RESUBMIT
NOT APPROVED

CHECKING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION SHOWN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRECTED AT THE JOB SITE FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION, PROCESSING OR TO THE TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES.

UNIVERSITY OF MARYLAND AT BALTIMORE
OFFICE OF FACILITIES MANAGEMENT
DATE 3/1/87 BY [Signature]

DATE 8-4-87
SUB 78 SPEC
Approved for compliance
CAMPUS POLICE
J. VINTON SCHAFER & SONS, INC.
BY [Signature]

TYPICAL DIRECTIONAL ARROW

PRIOR TO DRILLING OR SHOOTING INTO PRECAST CONCRETE, COORDINATE LOCATIONS TO AVOID CONTACT WITH PRESTRESSING STRANDS. DAMAGE TO THE STRANDS MAY RESULT IN STRUCTURAL FAILURE.

PEARL STREET GARAGE

UNIVERSITY of MARYLAND at BALTIMORE,

MARYLAND 21201

UMAB project no. 85 304 A

Approvals

Director of Physical Plant	Project Architect
Department of General Services	Director of Engineering and Construction

REVISIONS

No.	Date	By	What
1	12/86	[Signature]	REVISIONS

Seal

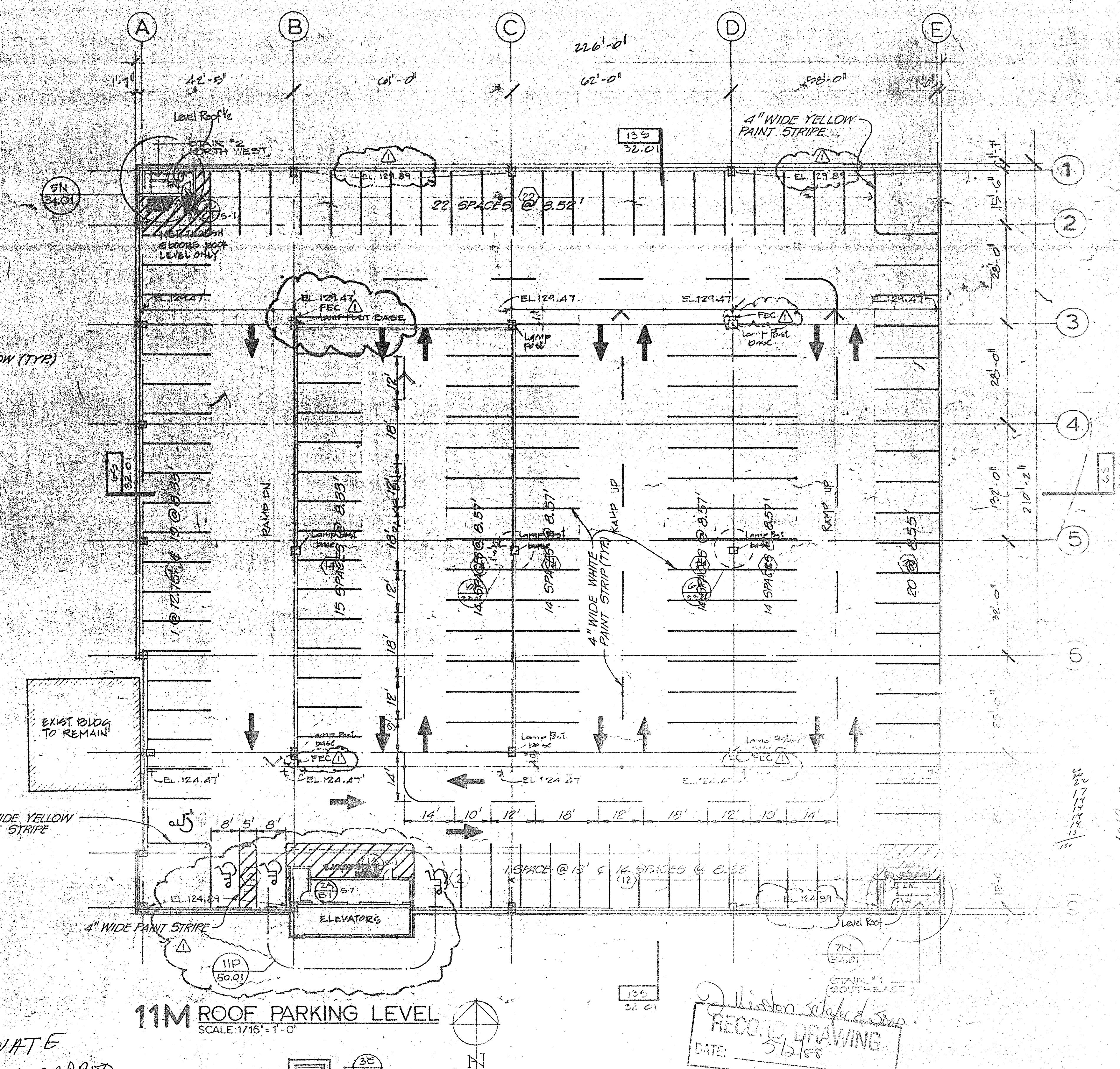
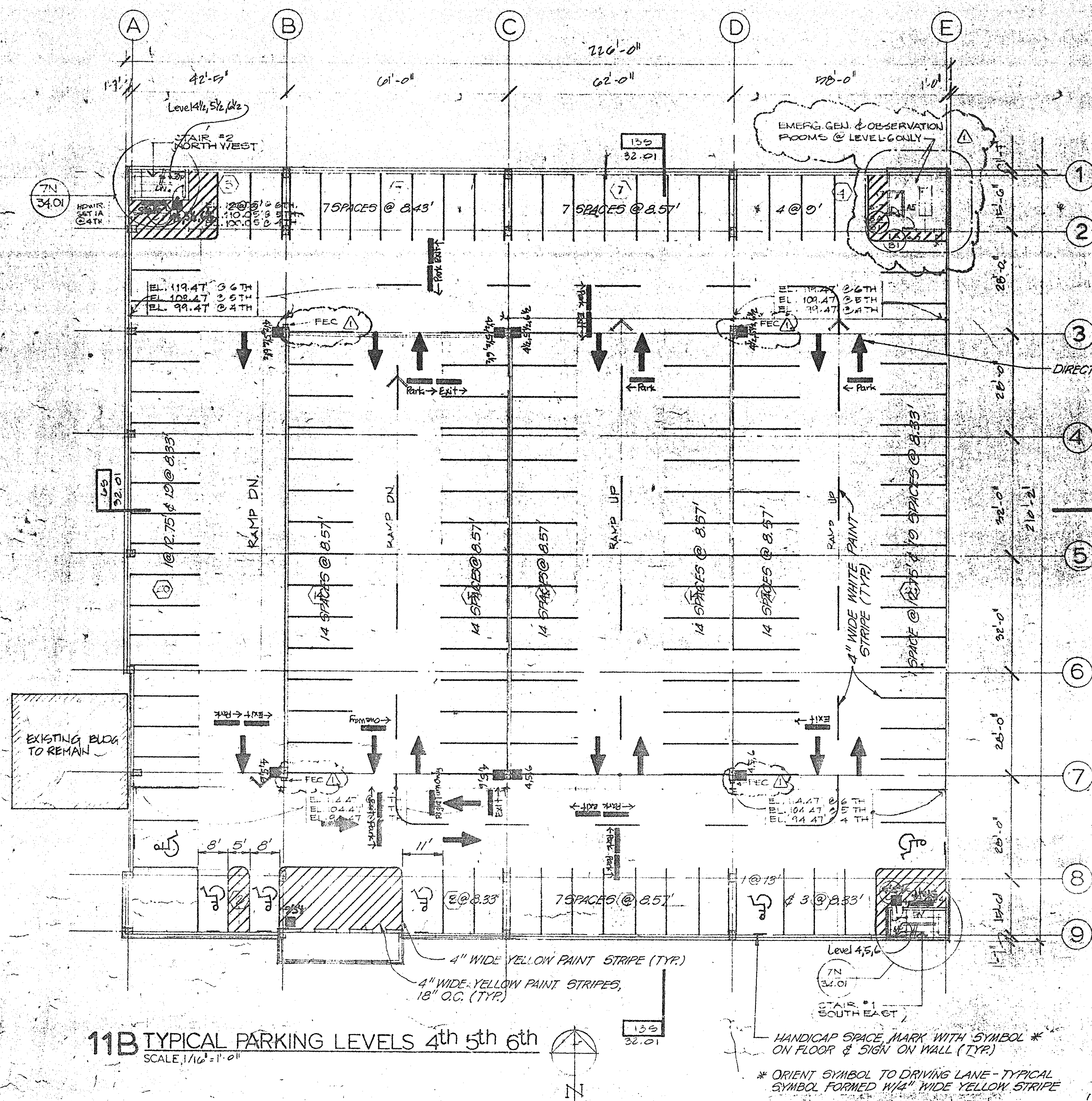
J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
1850 Federal Highway, White Marsh, MD 21206

RTKL

RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore, Maryland 21202

GROUND LEVEL STRIPING PLAN SIGNING PLAN

Contr. No. 8527800
Scale 1" = 100'
Date 7-14-87
Sheet 30 of 40

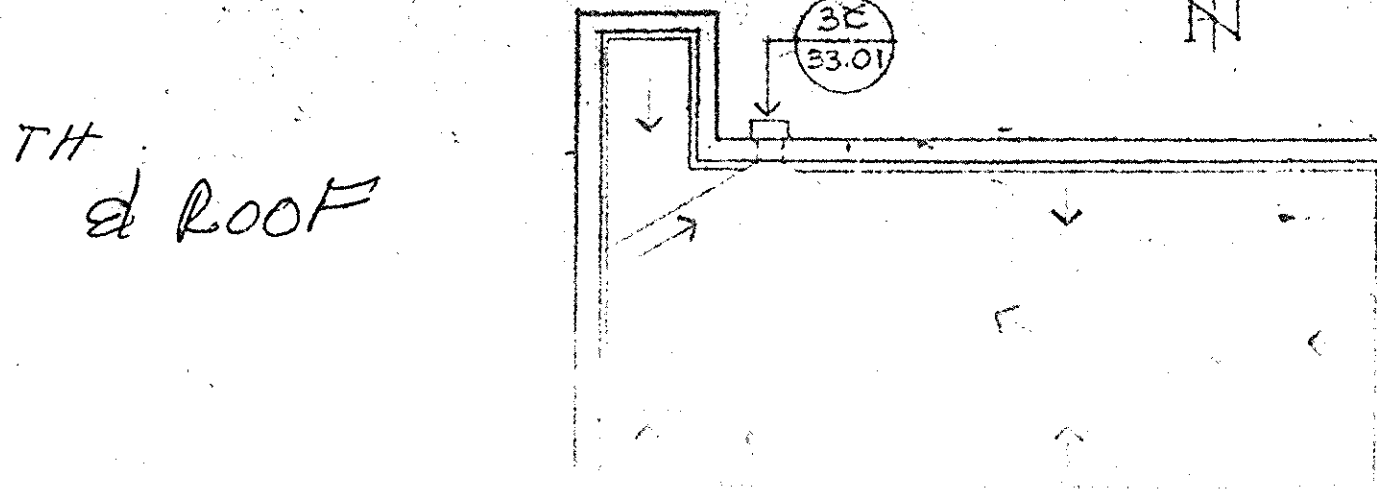


ELIMINATE
ALL HANDICAPPED
SPACES ON 4TH 5TH 6TH & ROOF

APPROVED AS CORRECTED
REVISE AND RESUBMIT
NOT APPROVED

CHECKING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE COMPIRED AND CORRELATED AT THE JOB SITE. FOR INFORMATION THAT PERTAINS TO THE FABRICATION PROCESSES, OR TO THE TECHNIQUE OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES.

UNIVERSITY OF MARYLAND AT BALTIMORE
OFFICE OF FACILITIES MANAGEMENT
DATE 3/1/87 BY [Signature]



13N ROOF PLAN @ ELEVATOR TOWER
SCALE 1/8" = 1'-0"

NOTE:
ALL CENTERLINES & PARKING SPACE STRIPINGS SHALL BE PAINTED WHITE. ALL OTHER PAVEMENT MARKINGS SHALL BE YELLOW.

RECORD DRAWING
DATE: 5/1/87

DATE 8-4-87
SUB: 78 SPEC
Approved for compliance except as noted
J. VINTON SCHAFER & SONS, INC.
BY [Signature]

PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201
UMAB project no. 85 304 A

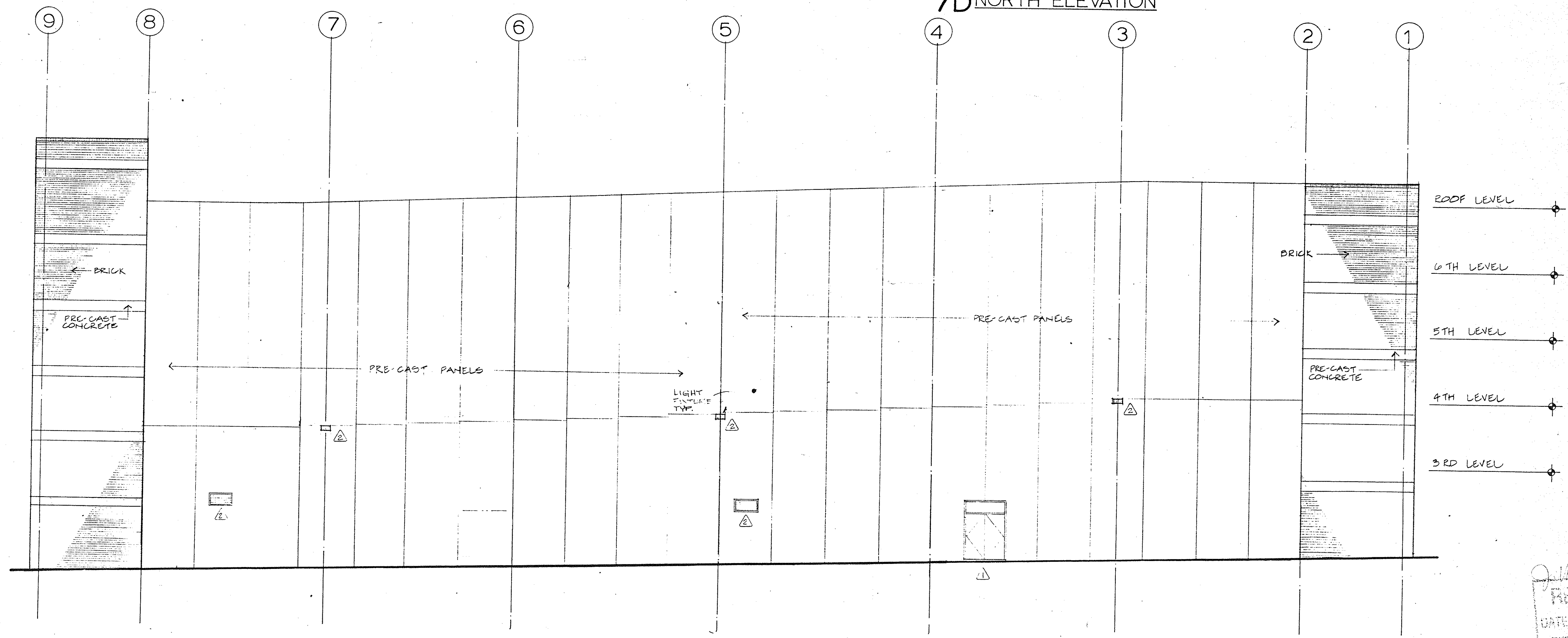
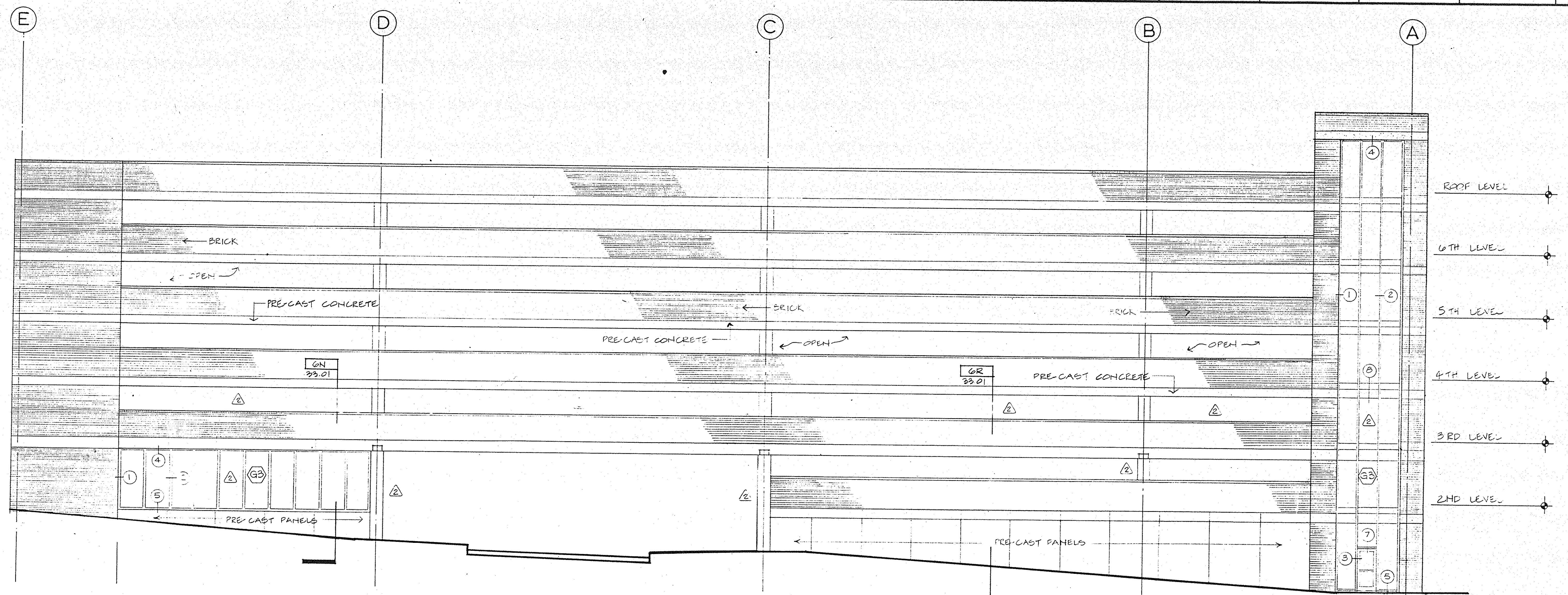
Approvals	
Director of Physical Plant	Project Architect
Department of General Services Project Administrator	Director of Engineering and Construction

REVISIONS	
No.	Date
1	3/1/87
2	3/1/87
3	3/1/87
4	3/1/87
5	3/1/87
6	3/1/87
7	3/1/87
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29	3/1/87
30	3/1/87

Seal
J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
1150 Pulaski Highway - White Marsh, MD 21228

RTKL
RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

TITLE: TYPICAL (4, 5, 6) and ROOF STRIPING PLAN
Contract No. 85276C01
Scale: 1/16" = 1'-0"
Date: 3-1-87
Sheet: 06



RECORD DRAWING
DATE: 5/12/88

PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201
UMAB project no. 85 304 A

Approvals	
Director of Physical Plant	Project Architect
Department of General Services, Project Administrator	Director of Engineering and Construction

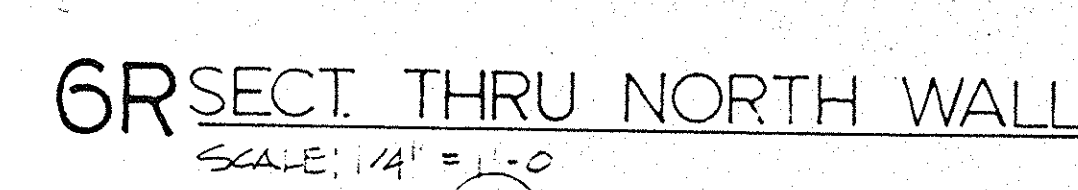
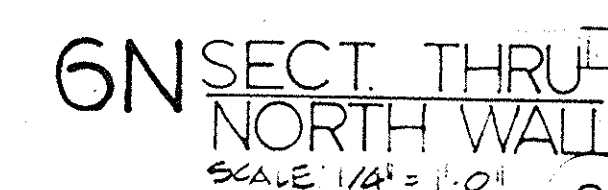
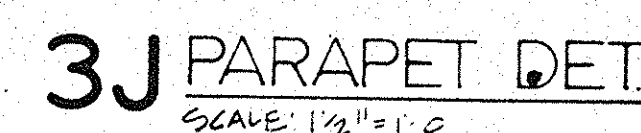
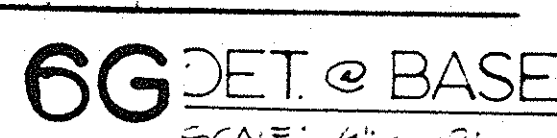
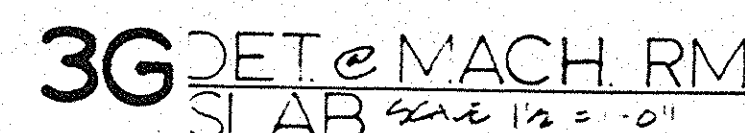
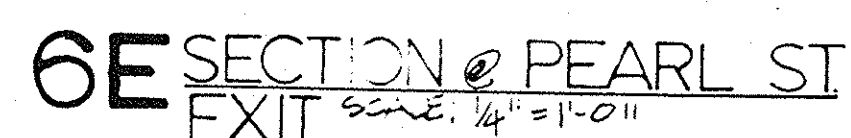
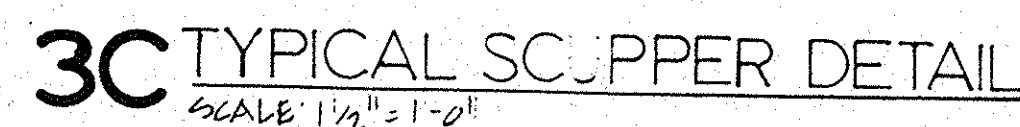
1	11/25/86	DOOR IN EAST WALL		
2	12/17/86	ADD JOINT #1		

Seal
[Signature]
Drawn
Checked
Approved

J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
1150 Pulaski Highway - White Marsh, MD 21202

RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

Title: NORTH & EAST ELEVATIONS
Contr. No. 8527800
Scale AS SHOWN
Date 7-25-86
Last Rev. 12-17-86
31
02



PRIOR TO DRILLING OR SHOOTING INTO PRECAST CONCRETE, COORDINATE LOCATIONS TO AVOID CONTACT WITH PRESTRESSING STRANDS. DAMAGE TO THE STRANDS MAY RESULT IN STRUCTURAL FAILURE.

UMAB project no. 85 304 A

Approvals

1	12/17/86	ADDENDUM #
A		

Seal	
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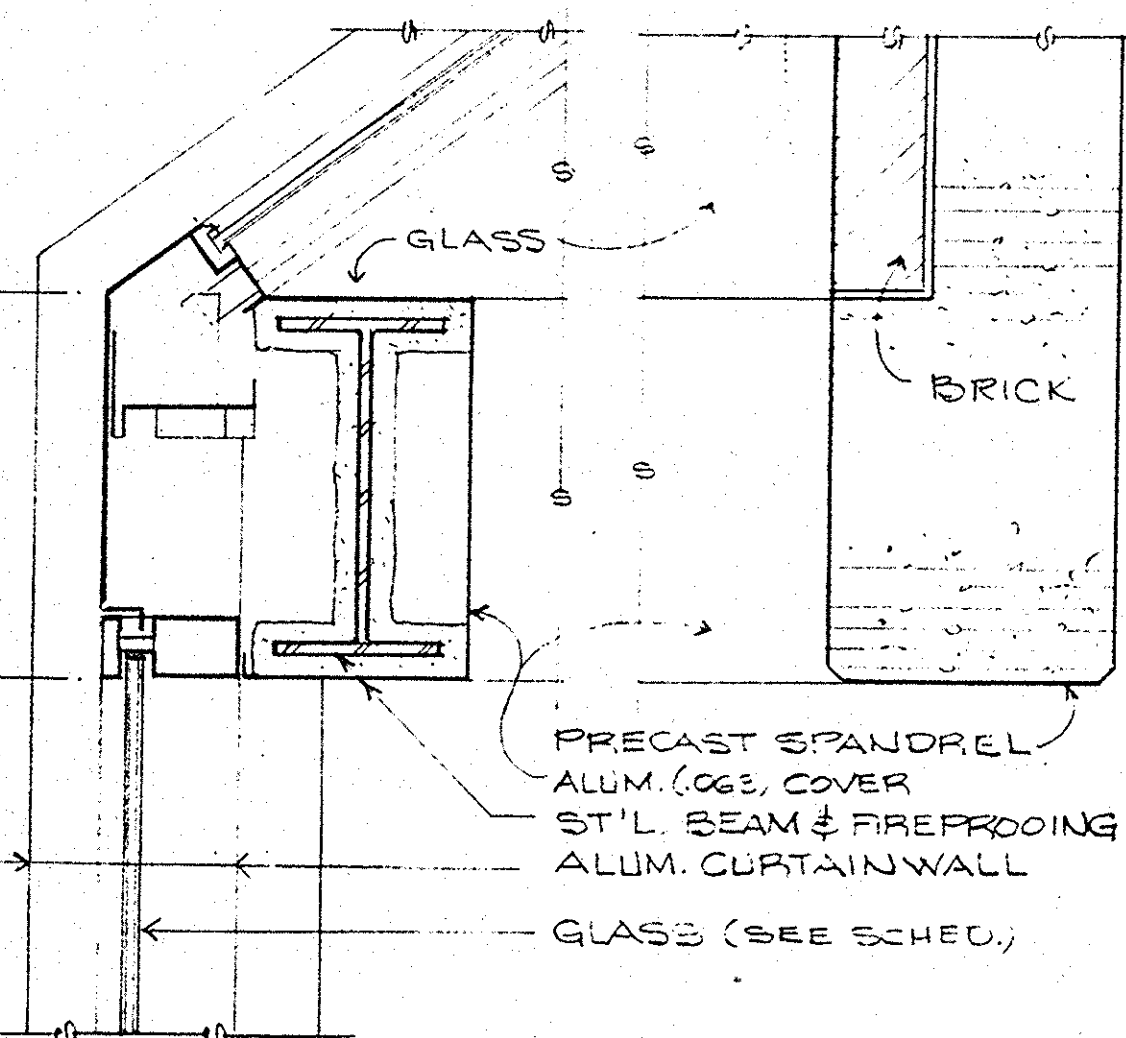
J. VINTON SCHAFFER & SONS, INC.
GENERAL CONTRACTORS
11150 Pulaski Highway White Marsh, MD 21162

RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

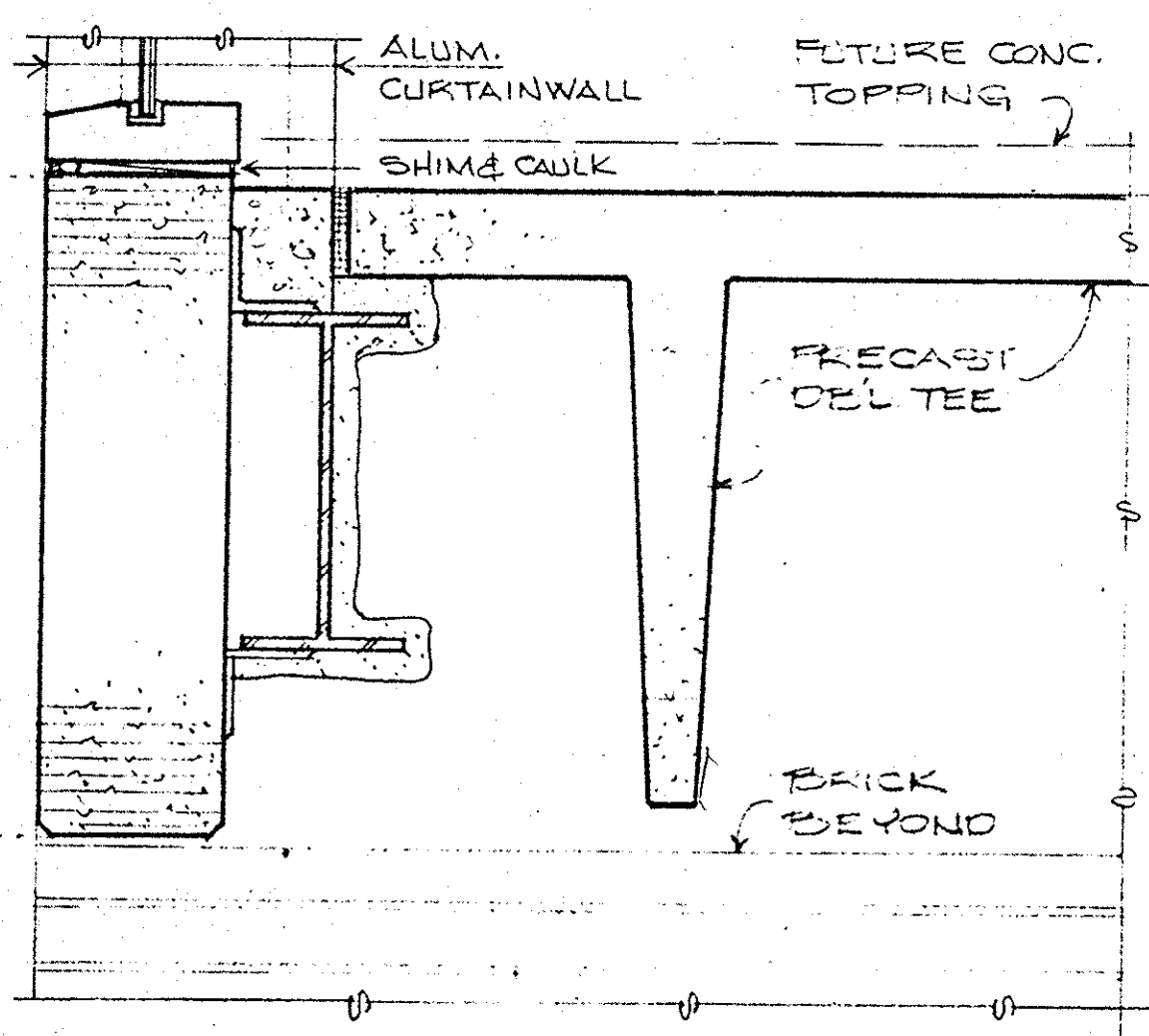
WALL SECTIONS

Contr.No.	8527800	33 01
Scale	1/4" = 10'	
Date	7-25-86	
Last Rev	7-17-86	

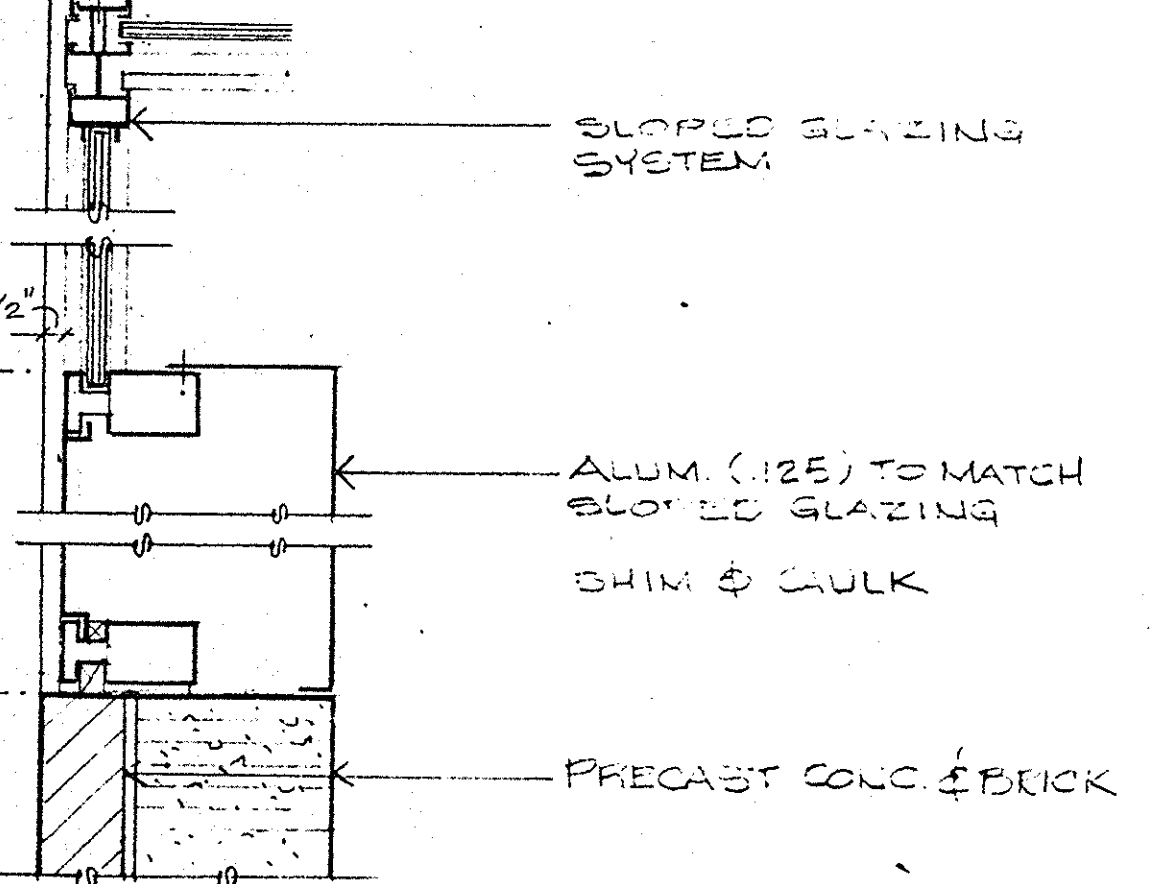
3A



6A

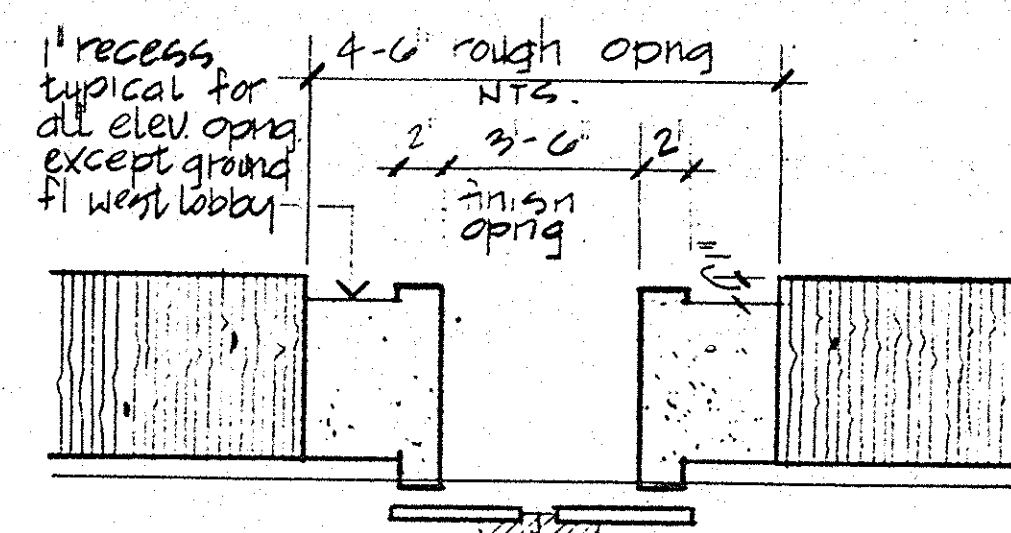


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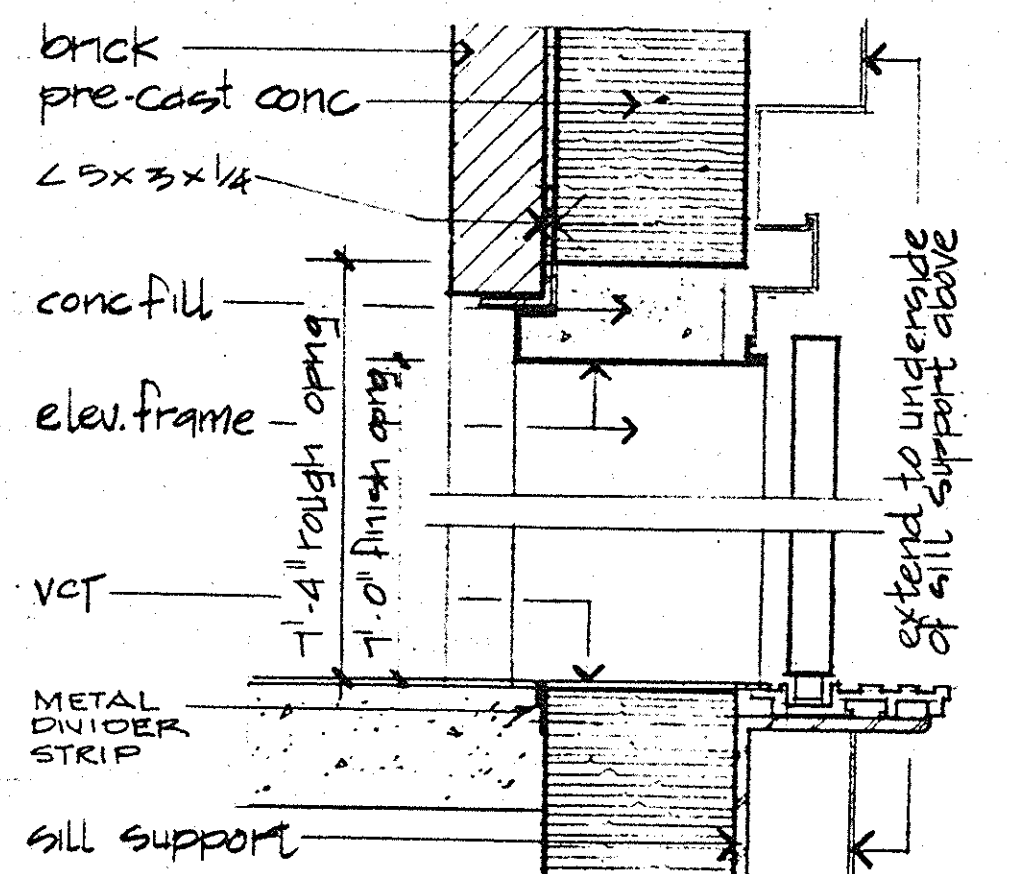


13A

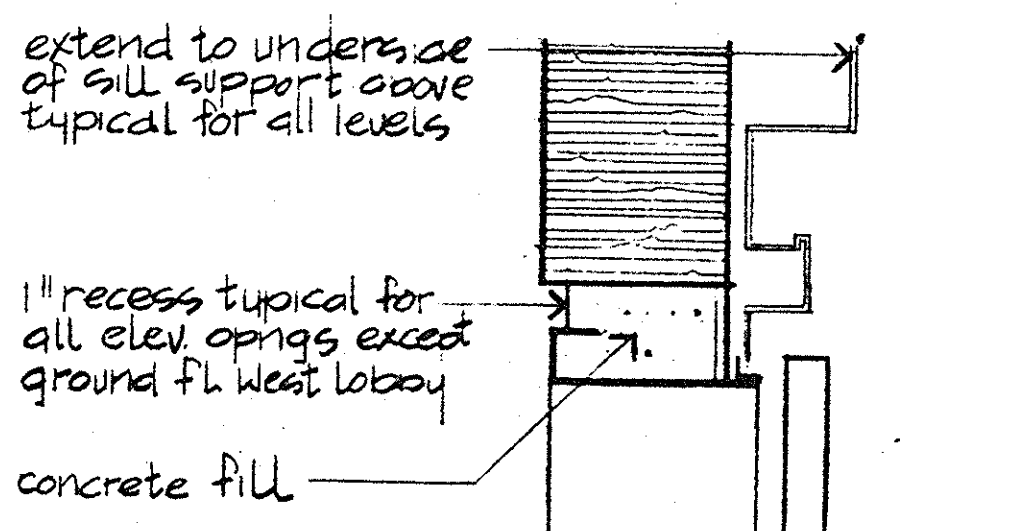
3E ELEVATOR JAMB @ WEST LOBBY



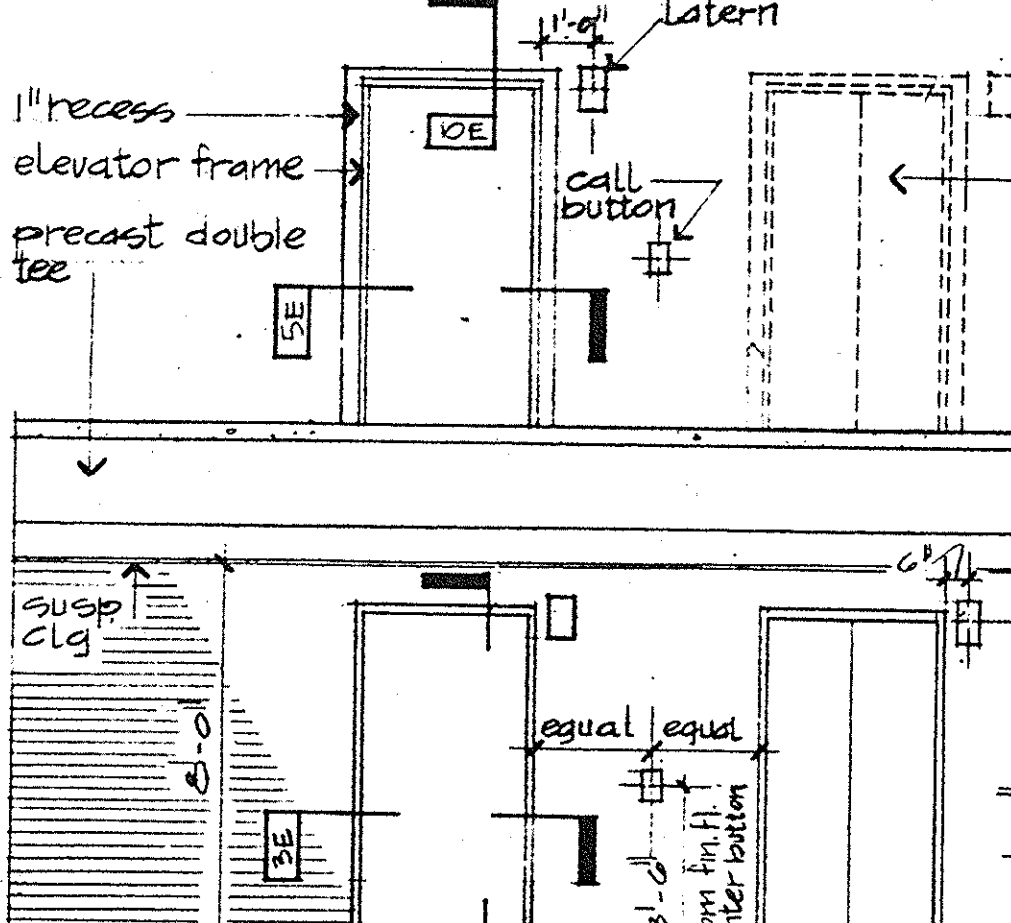
5E TYPICAL ELEVATOR JAMB



8E ELEV. HEAD & SILL @ WEST LOBBY



10E TYPICAL ELEVATOR HEAD



13E PARTIAL ELEVATION @ WEST ELEVATOR LOBBY

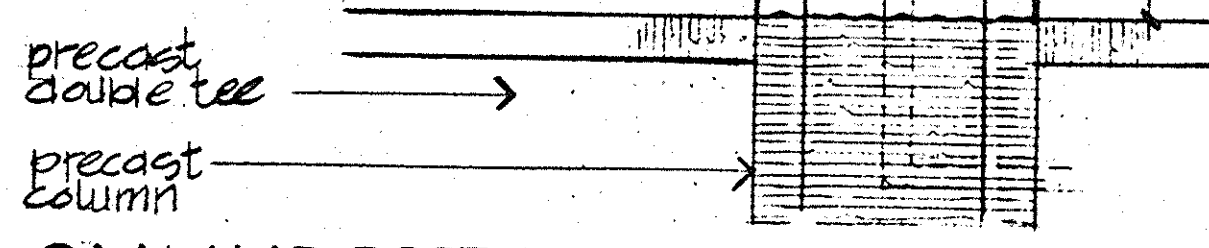
contractor to coordinate rough opening sizes w/ elevator manufacturer

13K EAST LOBBY

4H DETAIL @ STAIR LANDING

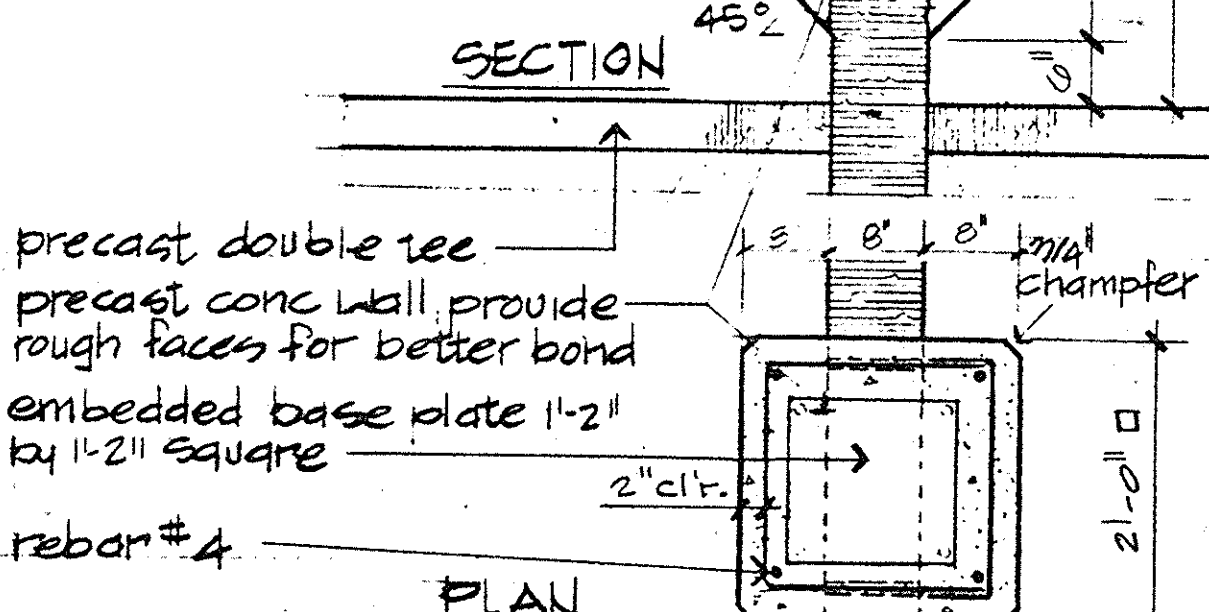
Lamp post, cover plates, anchor bolts provided by electrical contractor

Electrical contractor shall provide template for anchor bolt location & coordinate w/ conc. contractor for proper placement of bolt, conduit, etc.
cast in place conc. to match precast column
2" Ø embedded conduit
rebar



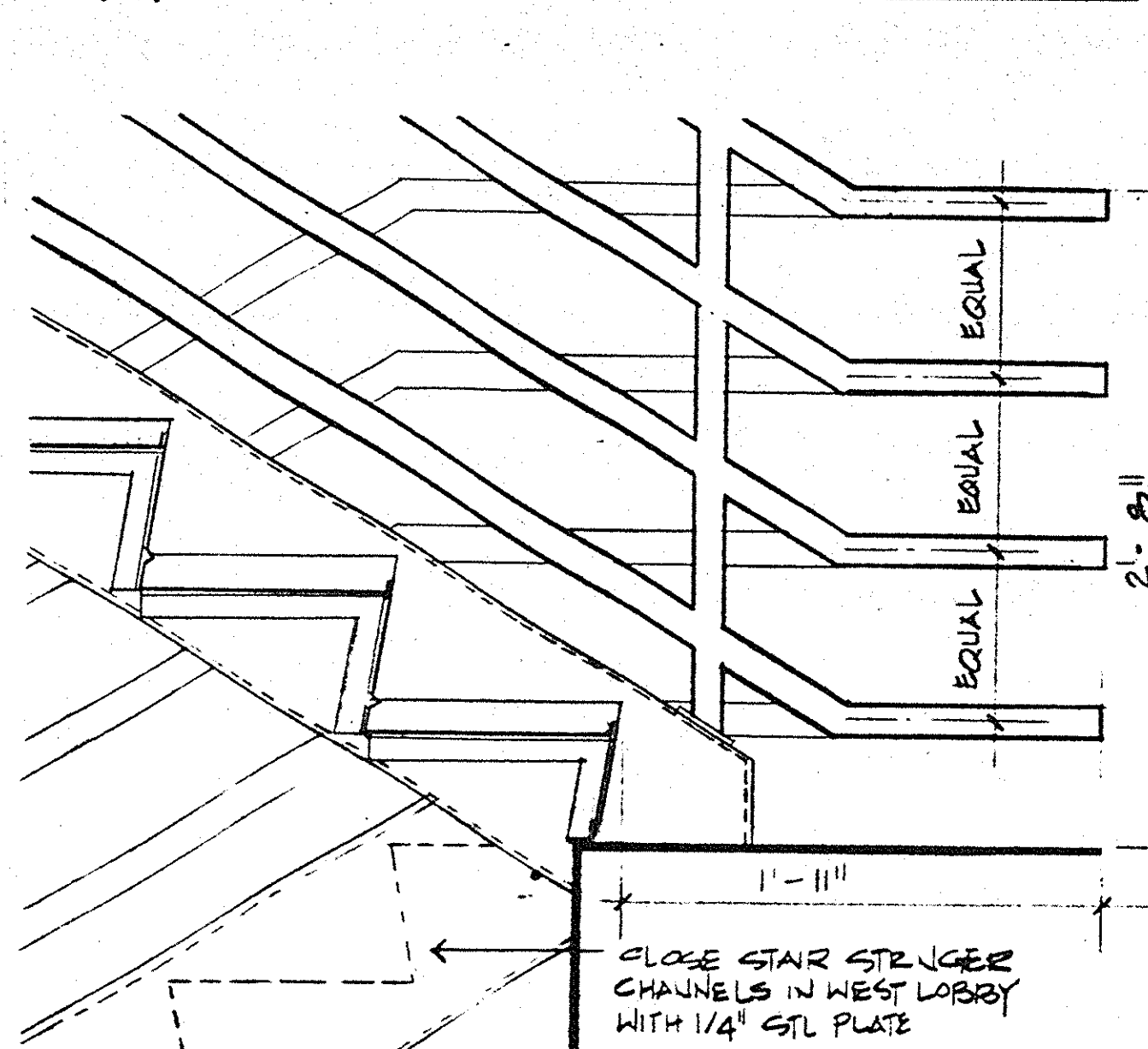
6H LAMP POST BASE DETAIL

Lamp post
Weld bolts to embedded 1/2" stl. plate, coordinate bolt locations w/ lamp post, base plate
provide slots thru precast wall to allow repairs to pass thru
3/4" Ø x 12" long anchor bolts
rebar #4 @ 8" O.C.

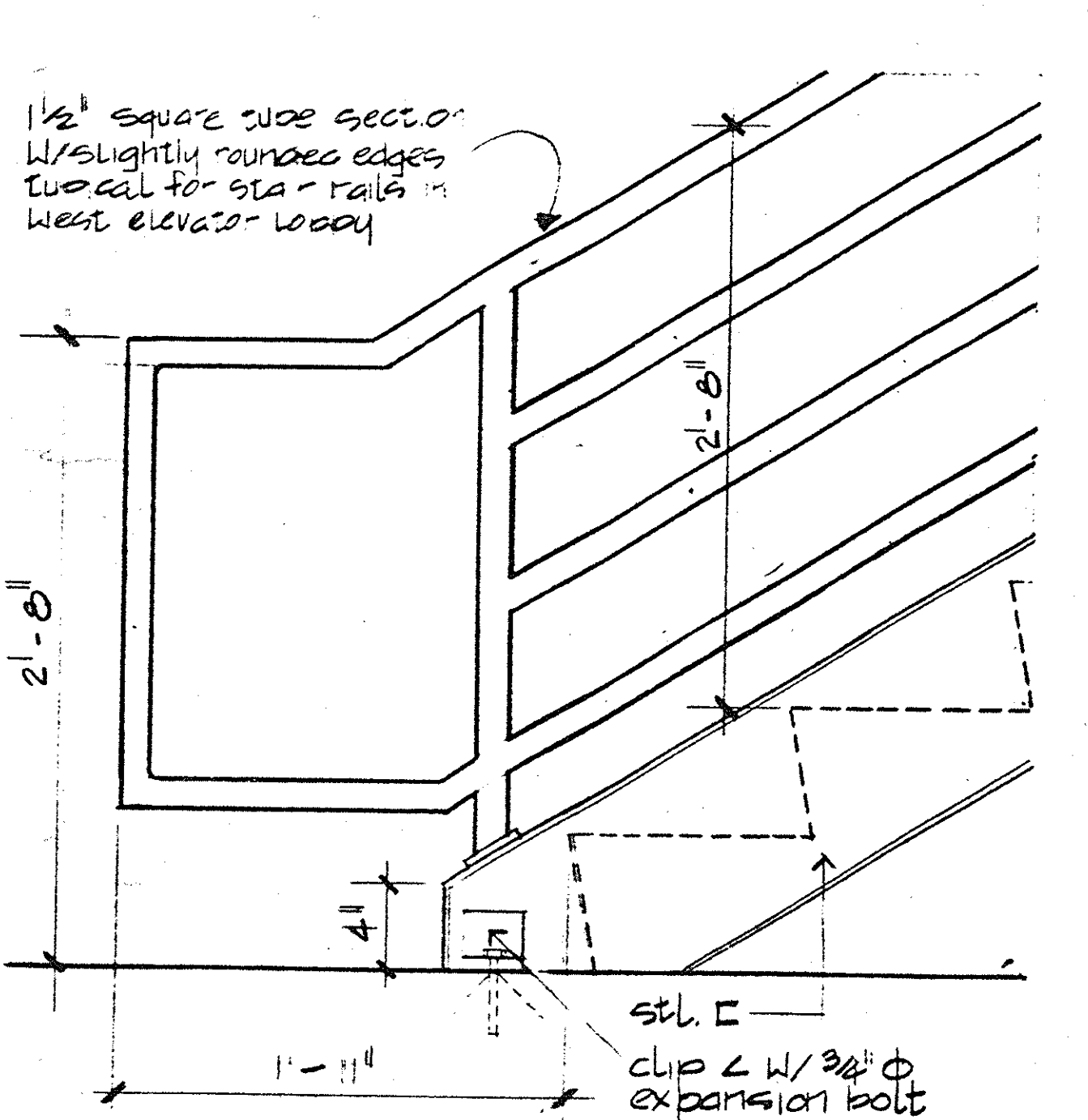


10H LAMP POST BASE @ PRECAST WALL

4M TYPICAL DETAIL @ MET. STAIR TOP LANDINGS



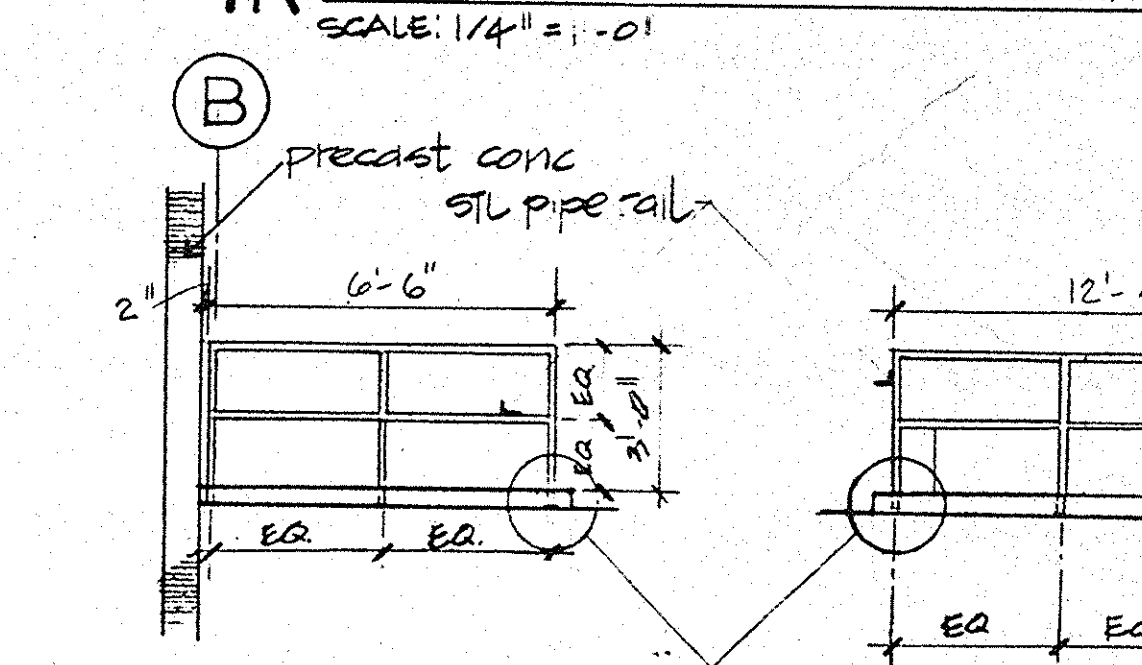
8M TYPICAL DETAIL @ MET. STAIR INTERMEDIATE LANDINGS



12M TYPICAL DETAIL @ MET. STAIR BOTTOM LANDINGS

RAIL & DETAIL @ STAIR DETS TYPICAL FOR EAST & WEST LOBBIES

4R ENTRANCE TO ELECT. EQUIP. RM.

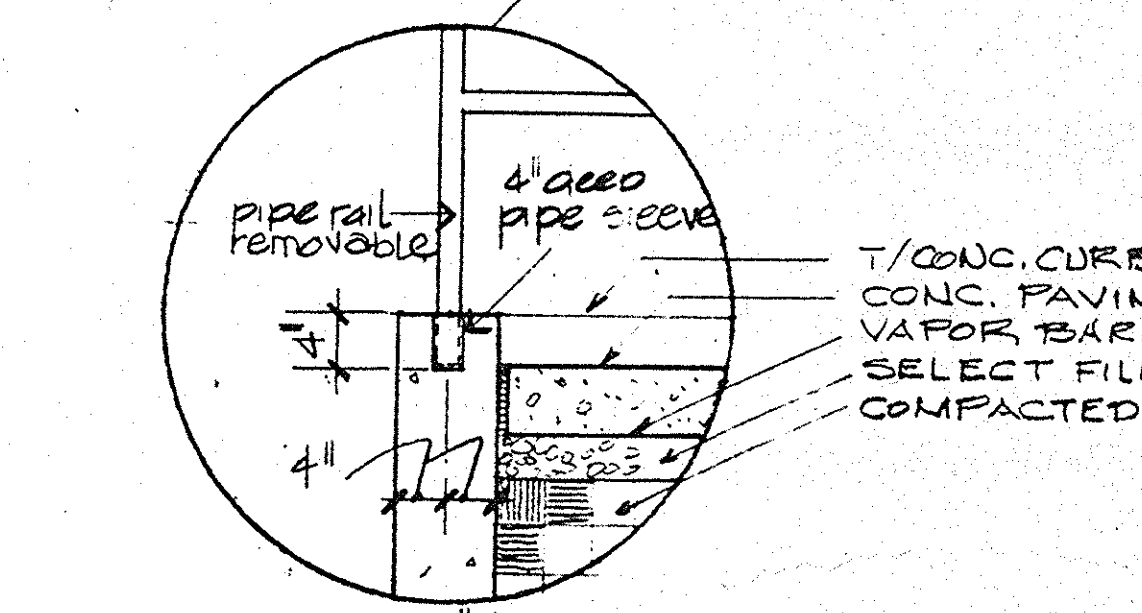


6R ELEVATION

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

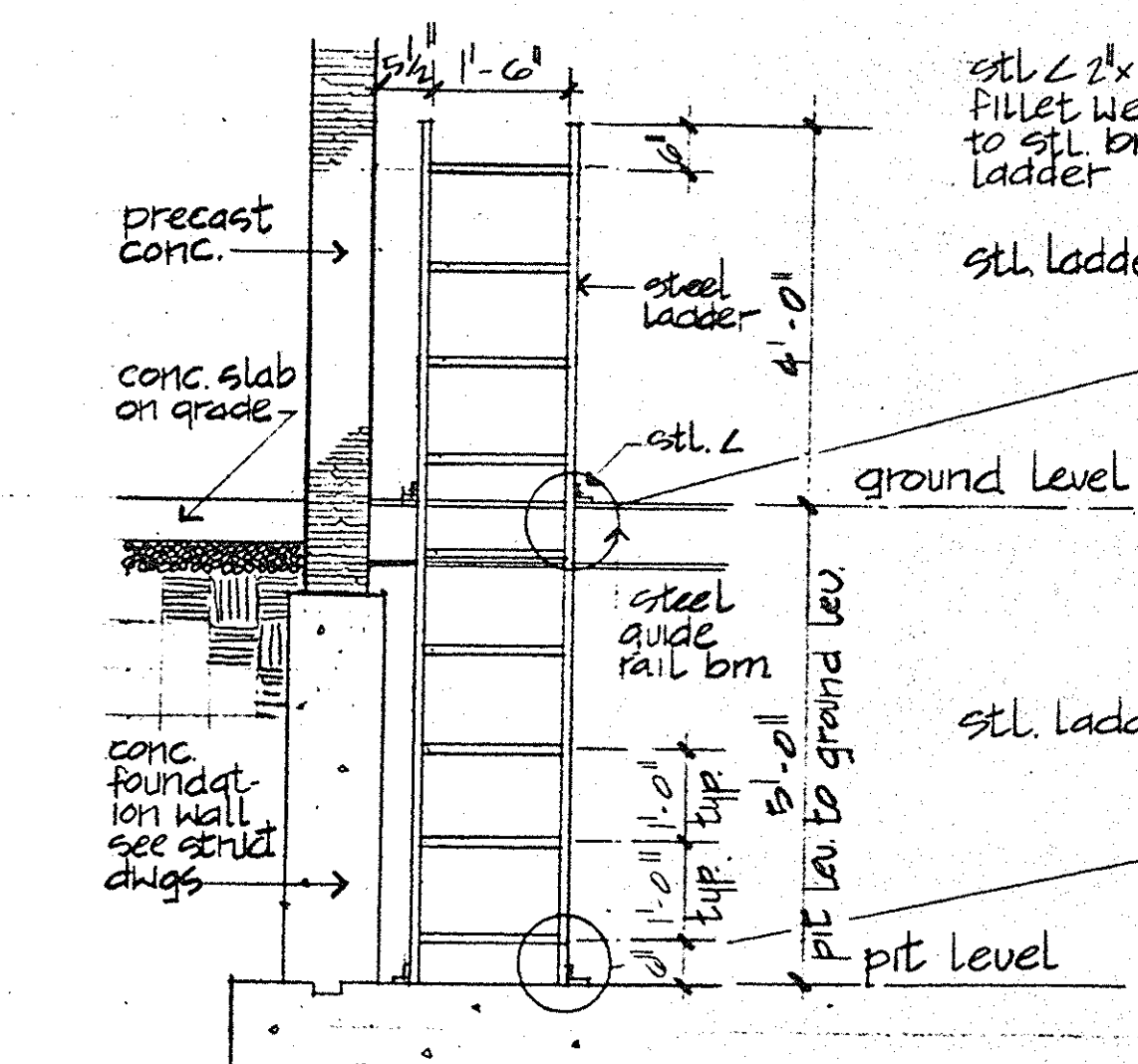
6T ELEVATION

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



8R TYPICAL PIPE SLEEVE DETAIL

SCALE: 3/4" = 1'-0"



12R TYPICAL PIT LADDER DETAILS

RECORD DRAWING
DATE: 5/3/85

PRIOR TO DRILLING OR SHOOTING INTO PRECAST CONCRETE, COORDINATE LOCATIONS TO AVOID CONTACT WITH PRESTRESSING STRANDS. DAMAGE TO THE STRANDS MAY RESULT IN STRUCTURAL FAILURE.

PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201
UMAB project no. 85 304 A

Approvals

Director of Physical Plant

Project Architect

Department of General Services,
Project AdministratorDirector of Engineering and
Construction12/73 ADDENDUM #1
5/4/85 AS-BUILT

REVISIONS

Seal

Drawn

Checked

Approved

Last Rev

J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
11550 Pulaski Highway, White Marsh, MD 21242

RTKL
RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

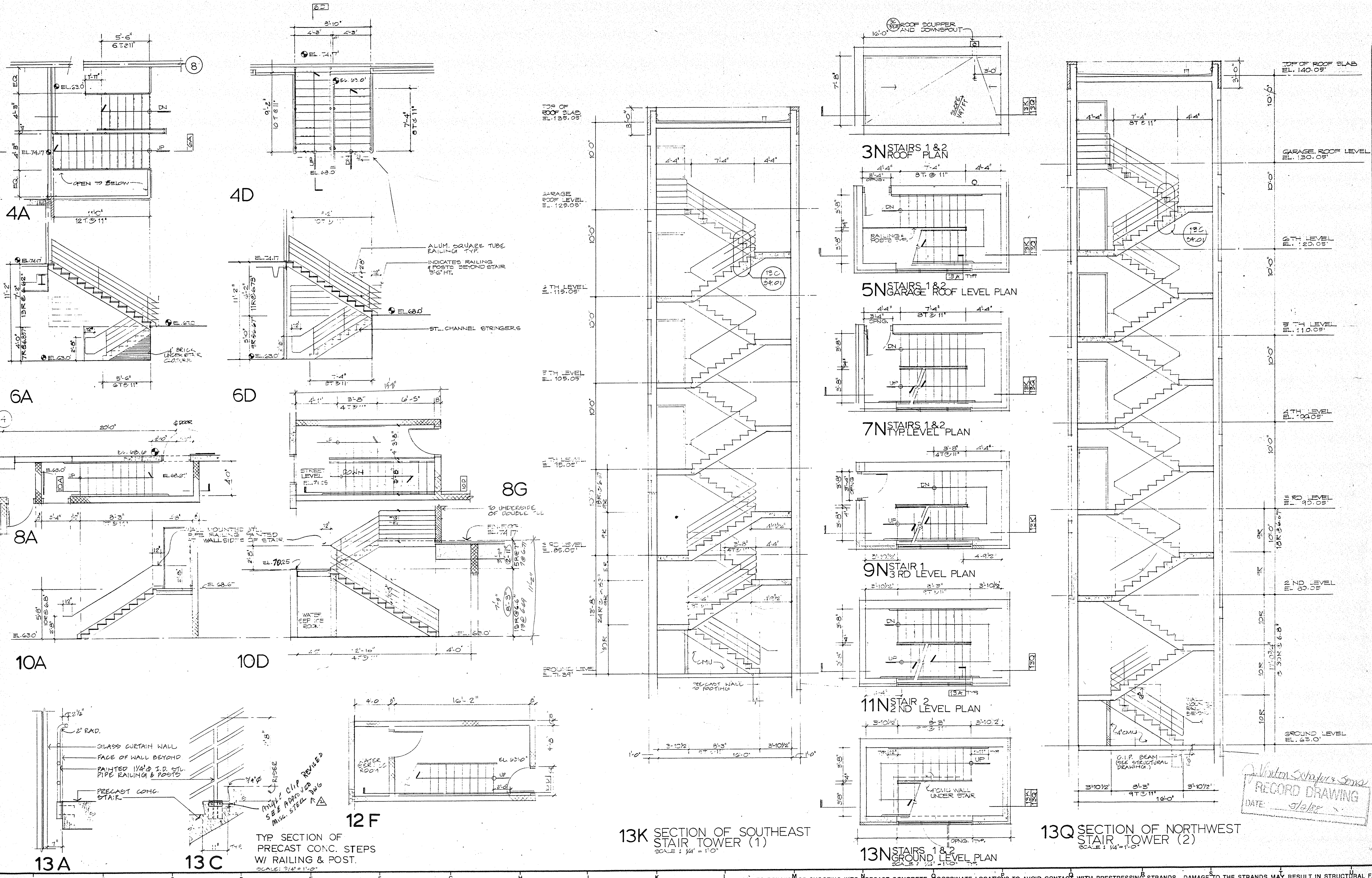
Title DETAILS

Contr. No. 8527800

Scale

Date

Last Rev



PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201

UMAB project no. 85 304 A

Approvals

Director of Physical Plant	Project Architect
Department of General Services, Project Administrator	Director of Engineering and Construction

1	12/17/84	ADDENDUM #1			
A	5/1/88	AS-Built			
No.	Date	Item	No.	Date	Item
REVISIONS					

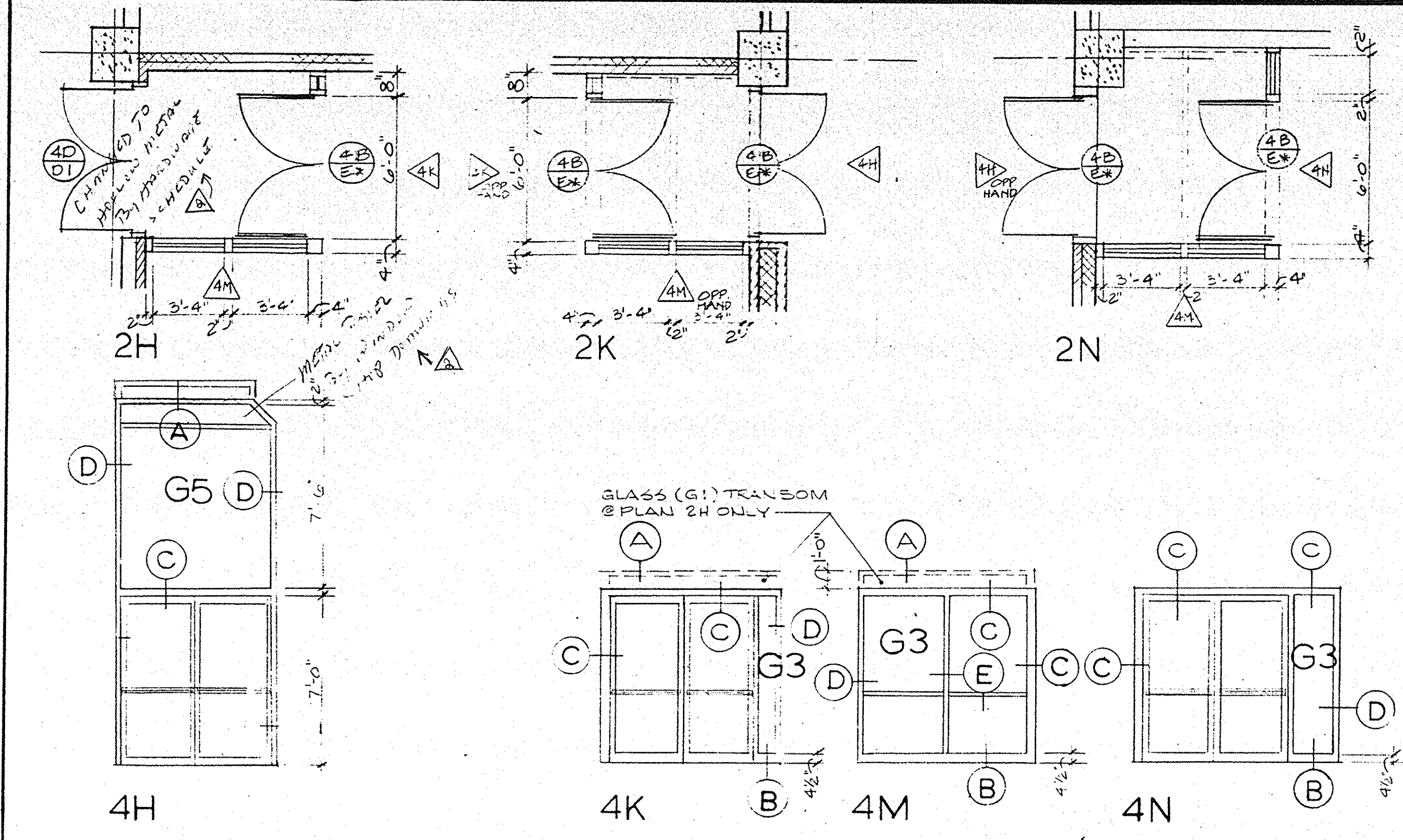
Seal	Drawn	Checked	Approved
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J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
1050 Pulaski Highway - White Marsh, MD 21226

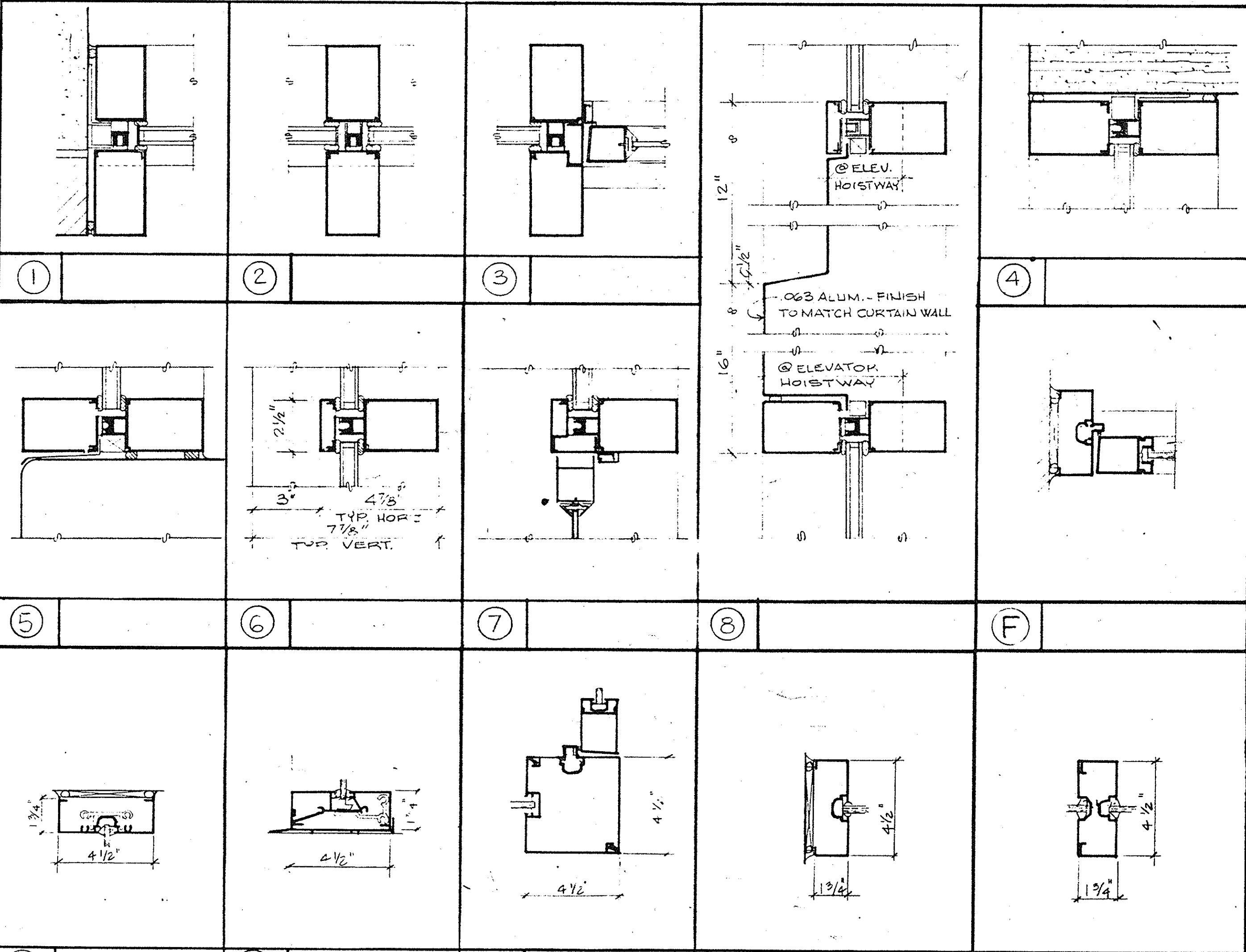
RTKL
RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

Contr. No.	8527800	34
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Date	7-23-86	
Last Rev	12-17-86	

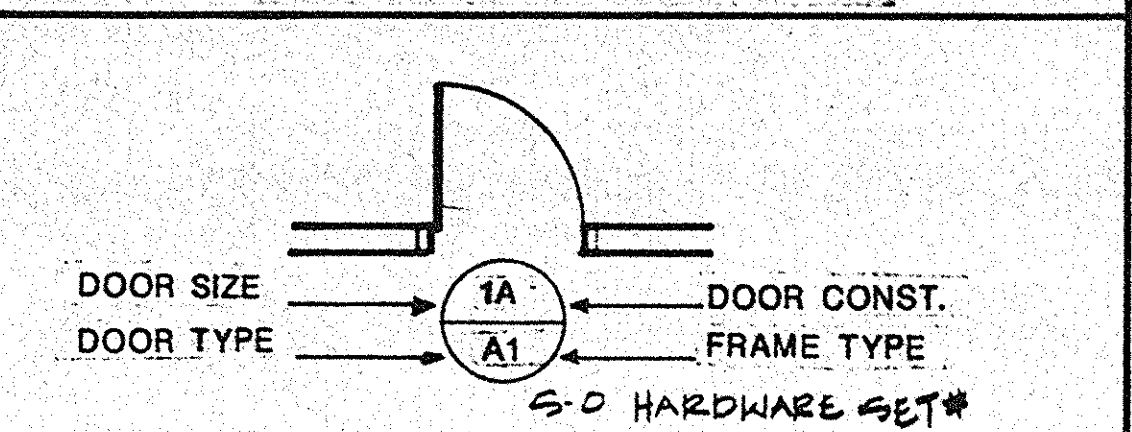
VESTIBULE PLANS & ELEVATIONS SCALE: 1/4"=1'-0"



CURTAIN WALL & STORE FRONT DETAILS SCALE: 1/4"=1'-0"



DOOR SCHEDULE (LEGEND)



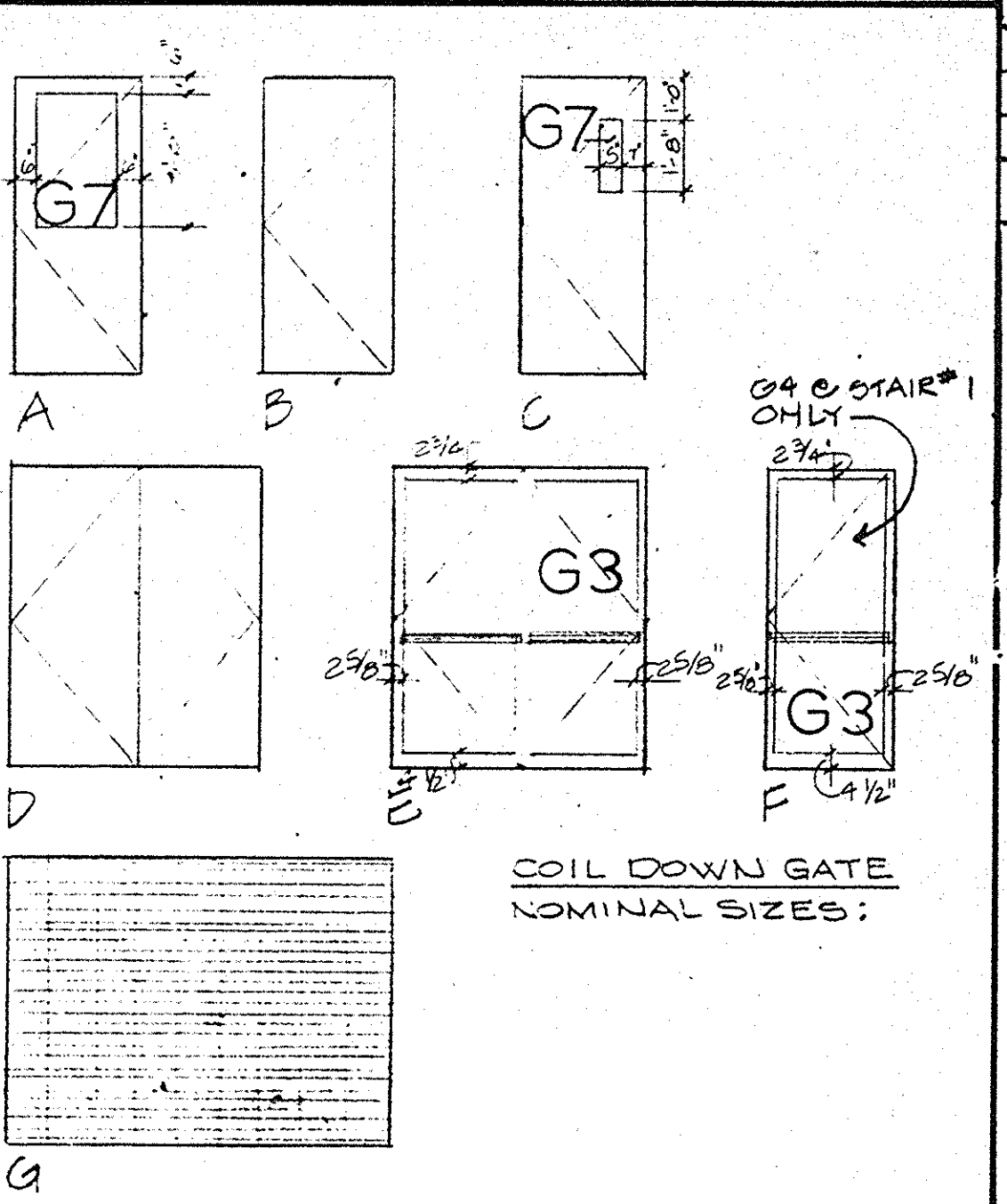
DOOR SCHEDULE

DOOR SIZE	DOOR TYPE	DOOR CONST.	DOOR FRAME TYPE	DOOR HARDWARE SET
1 3'-0" x 7'-0" x 1 3/4"				
2 2'-6" x 7'-0" x 1 3/4"				
3 2'-4" x 7'-0" x 1 3/4"				
4 PE. 3'-0" x 7'-0" x 3/4"				

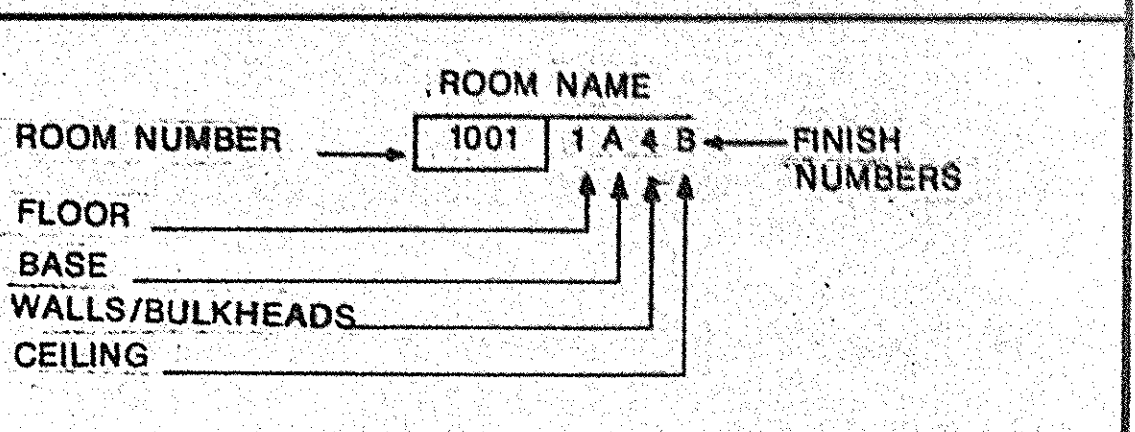
DOOR CONSTRUCTION

MK.	CONSTRUCTION	FIRE RATING
A	HOLLOW METAL	
B	GLASS / ALUM.	
C	HOLLOW METAL	1 1/2 HR.
D	HOLLOW METAL	3 HR.

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



FINISH SCHEDULE (LEGEND)



FINISH SCHEDULE

FLOOR	SPEC SECTION
1 VINYL COMPOSITION TILE	09600

BASE

A 4" VINYL (COVERED)	09600
B NO BASE	

WALLS/BULKHEADS

1 GYPSUM HALFBOD (PAINTED)	09250
2 CMU (PAINTED)	
3 BRICK	

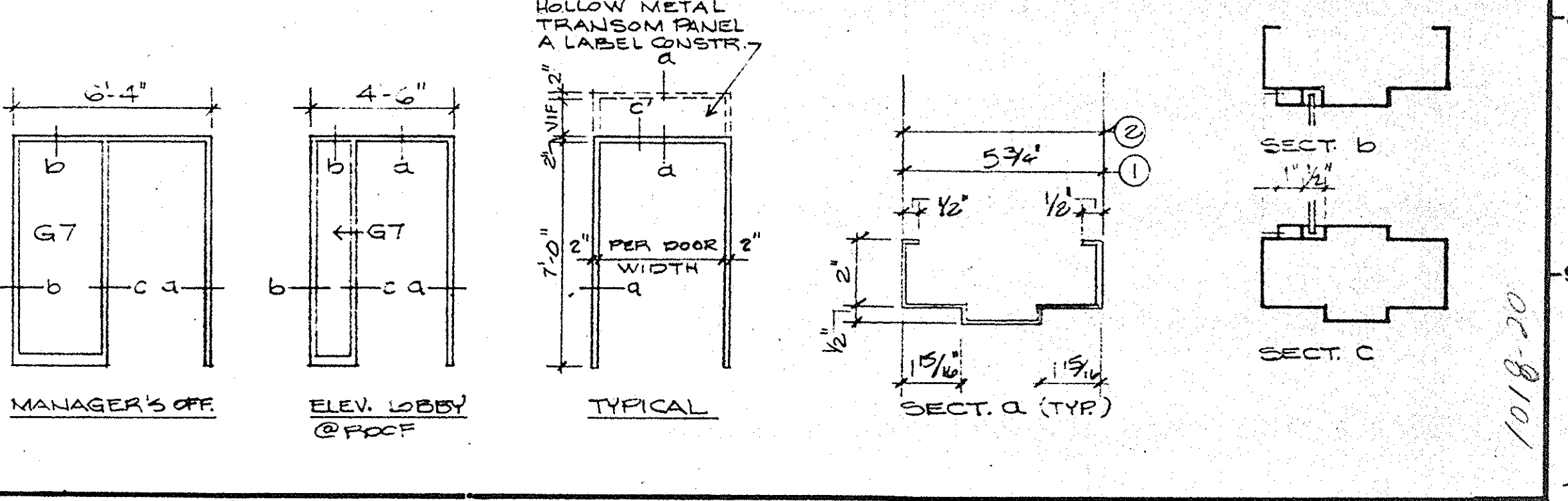
CEILING

A 2' x 2' ADJUST. CAL. TILE (A-H)	09510
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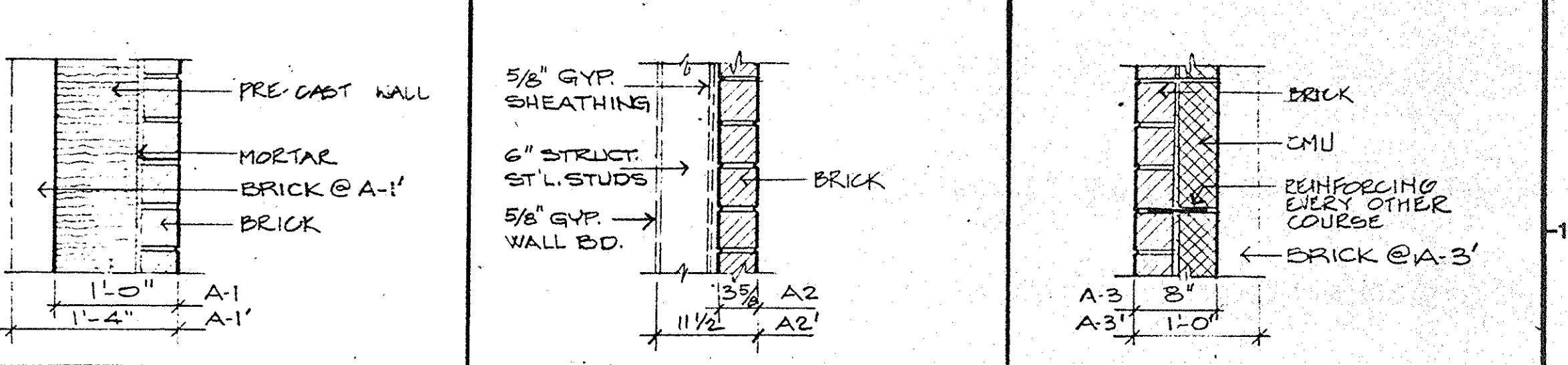
GENERAL NOTES * HARDWARE SETS

RECORD DRAWING
DATE: 5/2/88

HOLLOW METAL FRAMES



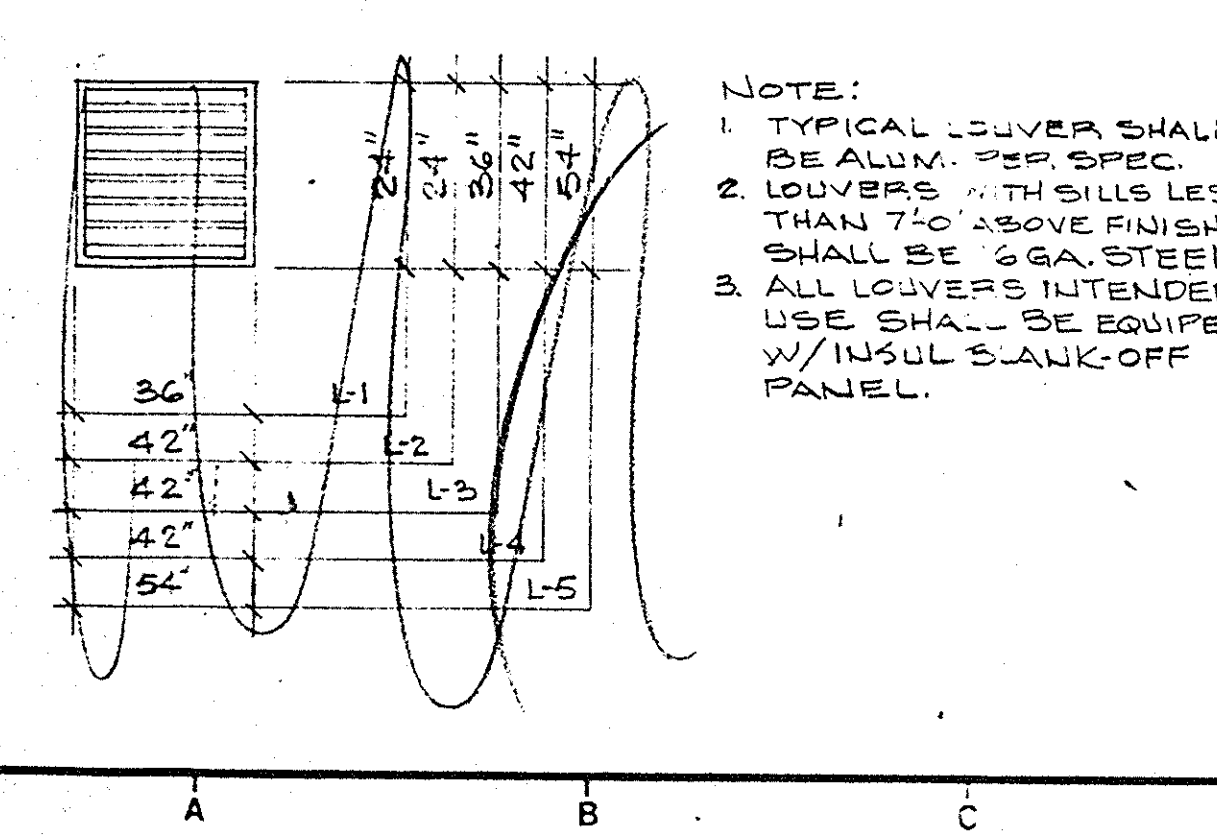
WALL SCHEDULE SCALE: 1"=1'-0"



WALL SCHEDULE

WALL TYPE	WALL CONSTRUCTION	WALL FINISH
A-1	PRE-CAST WALL MORTAR BRICK @ A-1'	
A-2	5/8" GYP. SHEATHING 6" STRUCT. ST. STUDS 5/8" GYP. WALL BO.	
A-3	BRICK CMU REINFORCING 6" GYP. SHEATHING @ A-3'	
A-4	CMU	
A-5	5/8" GYP. BOARD 3/8" MET. STUDS @ 16" O.C.	
A-6	5/8" GYP. BOARD 3/8" MET. STUDS @ 16" O.C.	
A-7	5/8" GYP. SHEATHING 5/8" GYP. BOARD DEMYT 6" STEEL STUDS @ 16" O.C. 1" INSULATION BO.	
A-8	5/8" GYP. SHEATHING 5/8" GYP. BOARD DEMYT 6" STEEL STUDS @ 16" O.C. 1" INSULATION BO.	3 HR. FIRE RATED

LOUVERS



GLASS SCHEDULE

MARK	DESCRIPTION	THICKNESS
G1	CLEAR FLOAT	1/4"
G2	TINTED LAMINATED	5/16"
G3	CLEAR TEMPERED	1/4"
G4	TINTED TEMPERED	1/4"
G5	CLEAR INSULATING (1/2" AIR SPACE)	1"
G6	TINTED INSULATING	1"
G7	CLEAR FLOAT WIRE	1/4"
G8	TINTED, TEMPERED, INSUL.	1"

PEARL STREET GARAGE
UNIVERSITY of MARYLAND at BALTIMORE,
MARYLAND 21201
UMAB project no. 85 304 A

Approvals

Director of Physical Plant	Project Architect
Department of General Services, Project Administrator	Director of Engineering and Construction

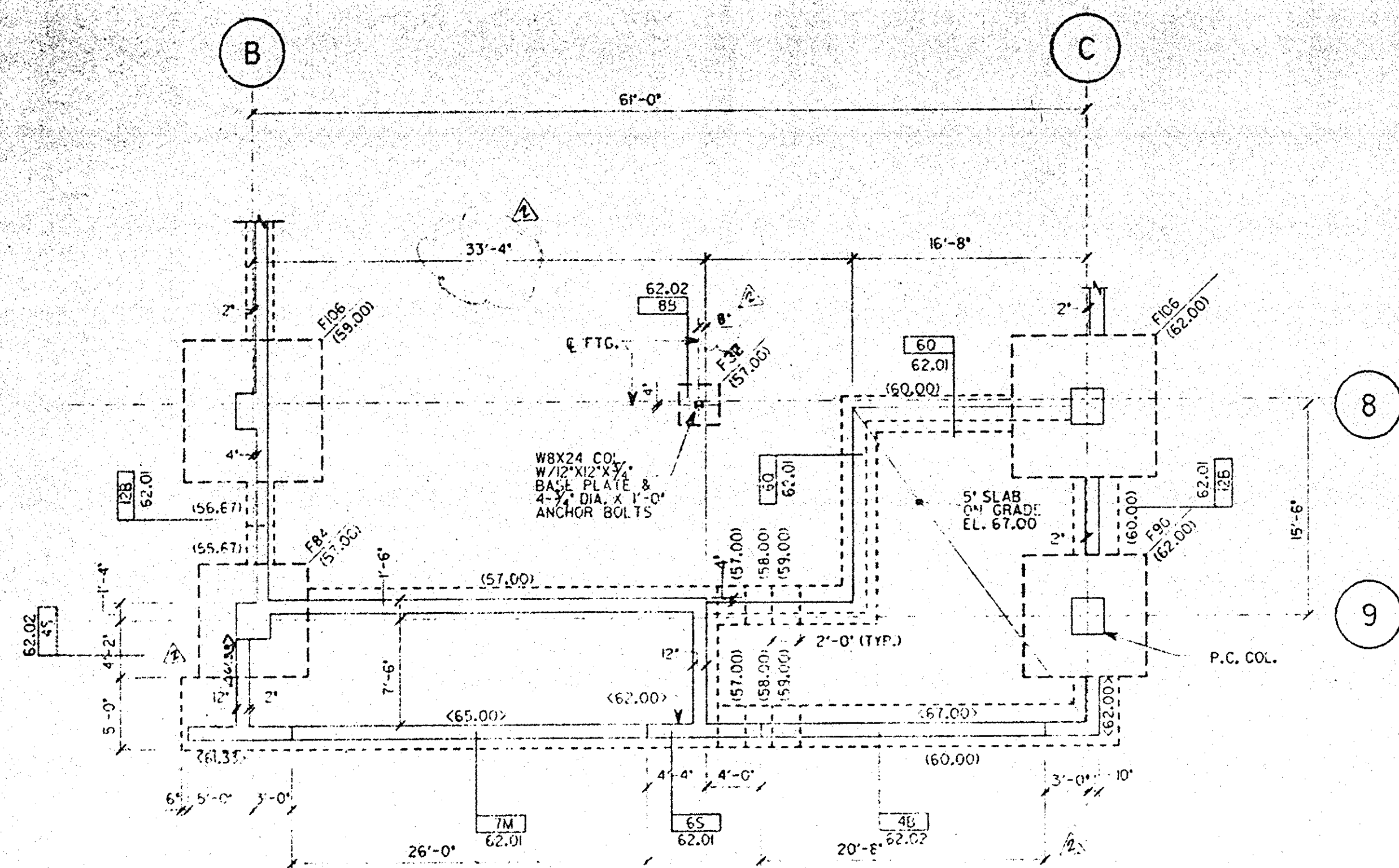
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1	12/1/84	APPENDIX #1			
2	5/2/88	AS-BUILT			

REVISIONS

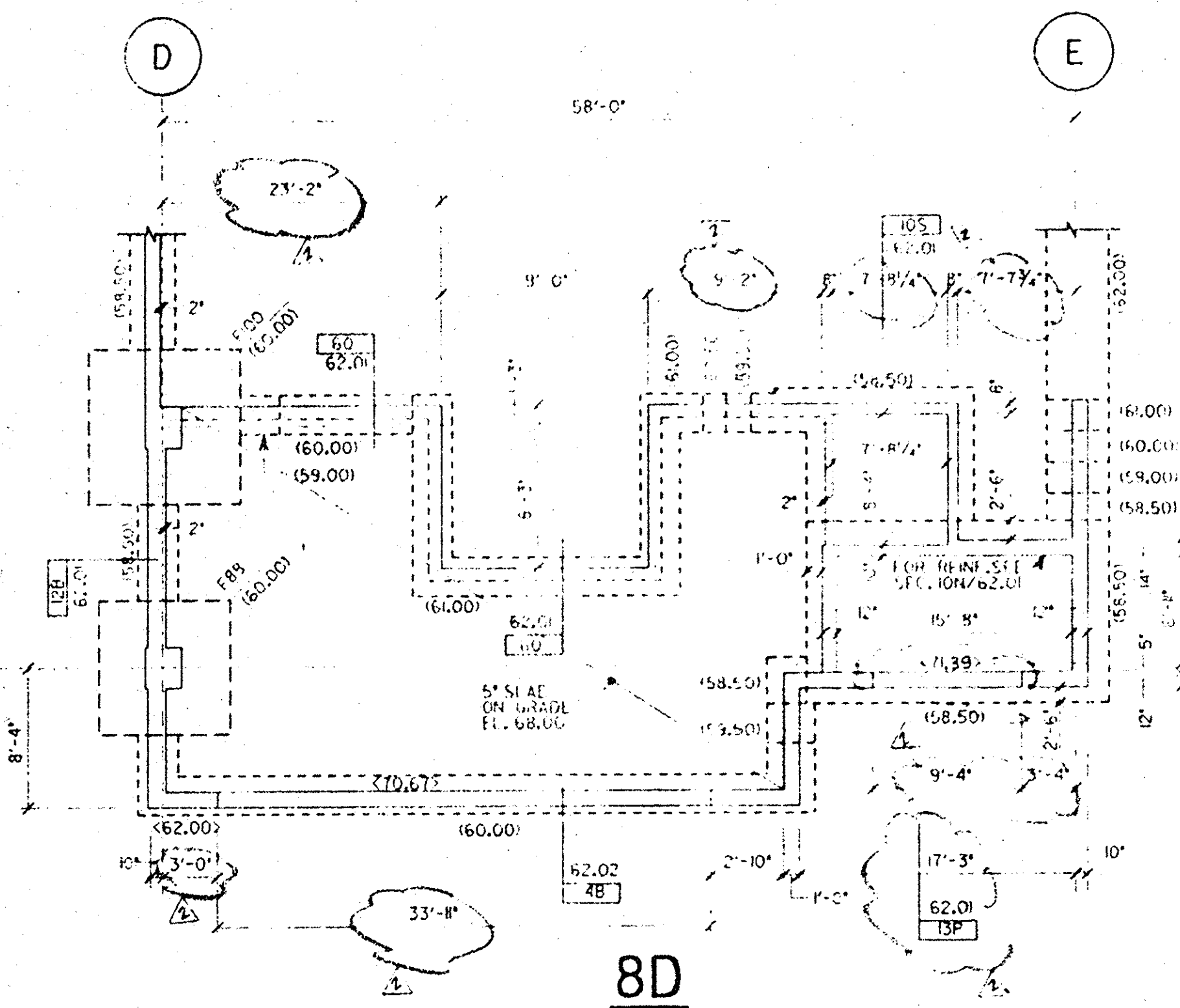
RTKL
RTKL ASSOCIATES INC.
400 East Pratt Street
Baltimore Maryland 21202

SCHEDULES & DETAILS

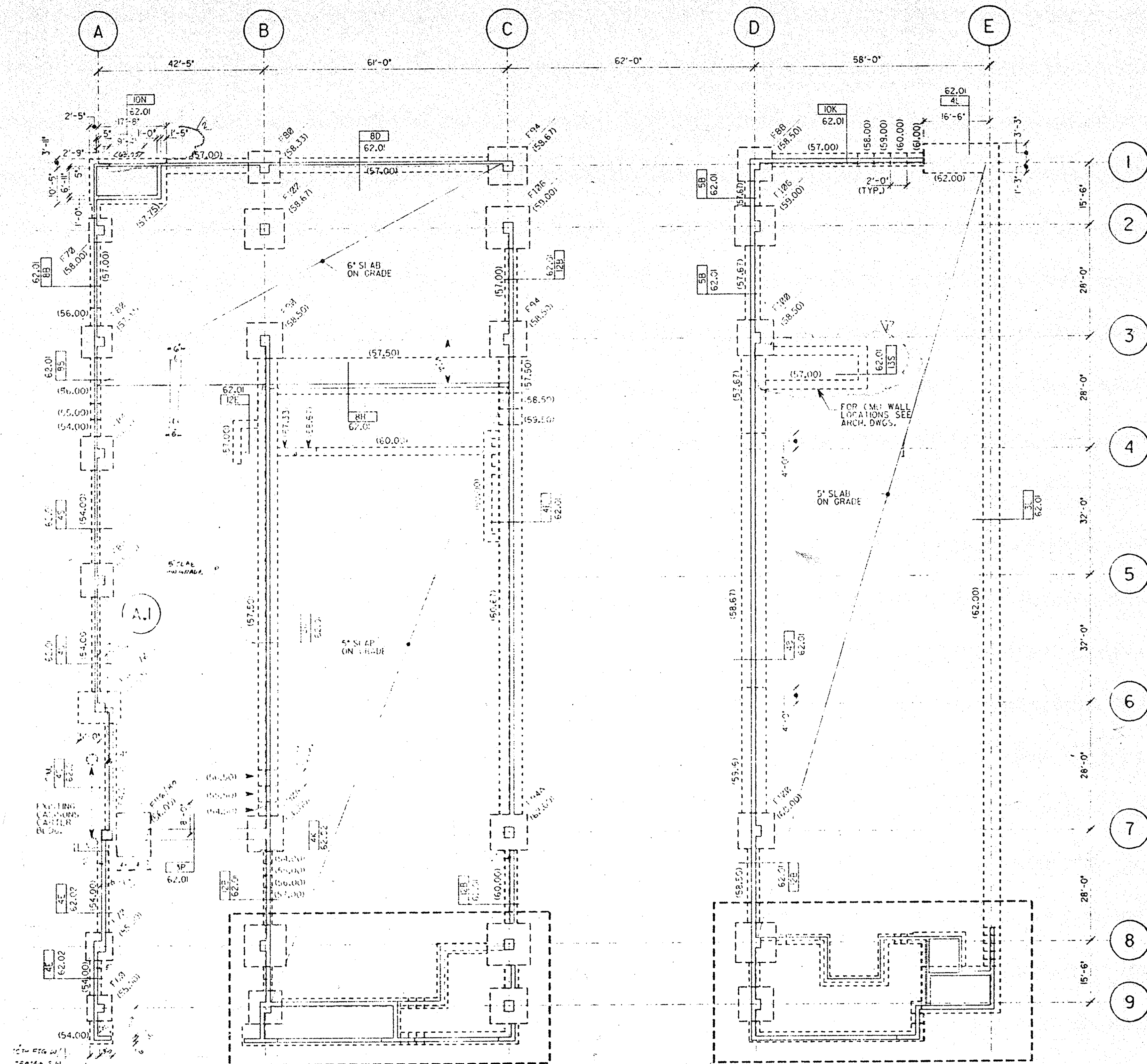
Contr. No.	8527800	35
Scale	AS SHOWN	
Date	7/25/86	01
Last Rev.	12/17/86	



4D



8D



GROUND LEVEL & FOUNDATION PLAN

- NOTES:
1. Top of finished ground level/slab to be = 63.00' unless noted otherwise on plan.
 2. Floor construction to be part bituminous paving and part slab on grade. For extent of different floor construction see Architectural drawings.
 3. Slab on grade where shown on drawings shall be 5" thick concrete slab reinforced with 6" x 6" x 12" W.B.F. over 4" washed gravel fill.
 4. Shown thus (63.00) indicates top of footing elevation.
 5. Shown thus (62.00) indicates top of wall elevation.
 6. For footing sizes and reinforcing see footing schedule.
 7. For concrete curbs, slopes and location of floor drains see Architectural and Mechanical drawings.
 8. For concrete piers and column sizes and reinforcing see column schedule.

J. Vinton Schaffer & Sons
RECORD DRAWING
DATE: 5/2/88

PRIOR TO DRILLING OR SHOOTING INTO PRECAST CONCRETE COORDINATE LOCATIONS TO AVOID CONTACT WITH PRESTRESSING. DAMAGE TO THE STRANDS MAY RESULT IN STRUCTURAL FAILURE.

REVISIONS		REVISIONS		REVISIONS		REVISIONS	
NO.	DATE	ITEM	NO.	DATE	ITEM	NO.	DATE
1		REVISION	1		REVISION	1	
2		REVISION	2		REVISION	2	
3		REVISION	3		REVISION	3	
4		REVISION	4		REVISION	4	
5		REVISION	5		REVISION	5	
6		REVISION	6		REVISION	6	
7		REVISION	7		REVISION	7	
8		REVISION	8		REVISION	8	
9		REVISION	9		REVISION	9	

J. VINTON SCHAFER & SONS, INC. GENERAL CONTRACTORS 11150 Pulaski Highway - White Marsh, MD 21162		RTKL	
CONTR. NO. 85278 00		SCALE 1/4"=1'-0"	
DATE 7-25-86		LAST REV. 12/17/86	
60		01	

PART FRAMING PLAN
SCALE: 1/8"=1'-0"

- NOTES:
1. FOR TOP OF STEEL BEAMS SEE ARCH. DWGS.
 2. PRECAST CONTRACTOR TO PROVIDE EMBEDDED STEEL PLATES AS REQUIRED. SEE RESPECTIVE SECTIONS FOR BEAM REACTIONS IN KIPS.
 3. FOR STRUT L4X4X5/8 CONNECTION SEE DETAIL THIS DWG.

WEST ENTRANCE LOBBY
FRAMING PLAN
SCALE: 1/8"=1'-0"

- NOTES:
1. FOR TOP OF STEEL BEAMS SEE ARCH. DWGS.
 2. PRECAST CONTRACTOR TO PROVIDE EMBEDDED STEEL PLATES AS REQUIRED. SEE RESPECTIVE SECTIONS FOR BEAM REACTIONS IN KIPS.
 3. FOR STRUT L4X4X5/8 CONNECTION SEE DETAIL THIS DWG.

EAST ENTRANCE LOBBY
FRAMING PLAN
SCALE: 1/8"=1'-0"

- NOTES:
1. FOR TOP OF STEEL BEAMS SEE ARCH. DWGS.
 2. PRECAST CONTRACTOR TO PROVIDE EMBEDDED STEEL PLATES AS REQUIRED. SEE RESPECTIVE SECTIONS FOR BEAM REACTIONS IN KIPS.
 3. FOR STRUT L4X4X5/8 CONNECTION SEE DETAIL THIS DWG.

TYPICAL FRAMING FOR SUPPORTING
CURTAIN WALL @ STAIR 1 & 2
SCALE: 1/4"=1'-0"

- NOTES:
1. FOR TOP OF STEEL BEAMS SEE ARCH. DWGS.
 2. PRECAST CONTRACTOR TO PROVIDE EMBEDDED STEEL PLATES AS REQUIRED. SEE RESPECTIVE SECTIONS FOR BEAM REACTIONS IN KIPS.

ELEVATOR FRAMING PLAN
SCALE: 1/4"=1'-0"

- NOTES:
1. FOR TOP OF STEEL BEAMS SEE ARCH. DWGS.
 2. PRECAST CONTRACTOR TO PROVIDE EMBEDDED STEEL PLATES AS REQUIRED. SEE RESPECTIVE SECTIONS FOR BEAM REACTIONS IN KIPS.
 3. FOR LOCATION OF ADDITIONAL BEAMS SEE ARCH. DWGS.
 4. THE FRAMING SHOWN IS AT TYPICAL FLOOR. FOR ADDITIONAL BEAMS AND THEIR TOP ELEVATION SEE ARCH. DWGS.

ELEVATOR MACHINE ROOM FRAMING PLAN
SCALE: 1/4"=1'-0"

- NOTES:
1. BEAM, SHOWN ARE REQUIRED TO SUPPORT ELEVATOR EQUIPMENT. BEAM REACTIONS AT ENDS OF BEAMS ARE IN KIPS. TO BE SUPPORTED BY P.C. CONCRETE PANELS.
 2. PRECAST CONTRACTOR TO PROVIDE EMBEDDED STEEL PLATES AS REQUIRED. SEE RESPECTIVE SECTIONS FOR BEAM REACTIONS IN KIPS.
 3. FOR HOIST BEAM LOCATION SEE ARCH. DWGS.
 4. INSTALL CONCRETE SLAB AFTER ELEVATOR EQUIPMENT IS COMPLETELY INSTALLED.
 5. CONCRETE SLAB FOR SLAB TO BE 4" MIN. AFTER 28 DAYS.

PART STAIR PLAN @
GARAGE ROOF LEVEL

PART ELEVATOR MACHINE ROOM
FRAMING PLAN

PART ELEVATOR ROOF FRAMING PLAN

12B

12E

12J

12N

TYPICAL DETAIL AT STRUT ANGLE
CONNECTION TO P.C. CONCRETE

12T

PRIOR TO DRILLING OR SHOOTING INTO PRECAST CONCRETE COORDINATE LOCATIONS TO AVOID CONTACT WITH PRESTRESSING STRANDS. DAMAGE TO THE STRANDS MAY RESULT IN STRUCTURAL DAMAGE.

- STRUCTURAL STEEL
1. All structural steelwork shall conform with AISC, Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings, latest edition.
 2. Structural steel shall conform to the latest edition of the following ASTM designations:
Structural steel shapes, bars, and plates - A36 having a minimum yield strength of 36 ksi.
 3. Bolts shall conform to the following ASTM designations, latest edition:
High strength bolts - A325 or anchor bolts - A307.
 4. All welding electrodes shall conform to the E-70 series of the specification for mild steel arc welding electrodes ASTM A233, latest edition.
 5. All bolts shall be 3/4" diameter, open holes 13/16" diameter, unless otherwise shown or noted.
 6. All shop connections shall be high strength bolted or welded.
 7. All field connections shall be high strength bolted except where details indicate welding. Standard fasteners may be used in welded connections which require adjustment prior to welding such as suspended lintels, wind bracing.
 8. All welding shall be done by certified, licensed welders and shall be inspected by the Testing and Inspection Agency which shall issue an affidavit that all welding has been inspected and found to be in conformity with details and standard practice.
 9. Provisions shall be made for connections of other trades, including cutting and punching of structural members as required by the drawings, or for which information is furnished prior to fabrication.
 10. All steelwork shall have one shop coat of paint except that steel within 2' of weld, machined surface, or completely encased in concrete shall be left unpainted. See specifications for steel surface preparations.
 11. Mild or stiff welded stiffeners shall be provided on girder under all column concentrations and over all columns.
 12. Approval of the engineer shall be mandatory for the use of cutting torch in the field.
 13. During erection, structural steel frame shall be adequately braced in all lines, two ways.
 14. Connections shall be designed per AISC to carry full capacity of uniformly loaded member, unless noted otherwise.
 15. Beam reactions greater than 50% of full member capacity are indicated thus (60/10) kip. Shear connections shall be designed for this load.
 16. All connections of beams and girders to tops of columns shall be framed unless they are cantilevers, in which case they shall run over top of column per typical details.
 17. All girth under lintels shall be non-shrink "premix" type and shall have a minimum compressive strength of 5,000 psi, tested in accordance with concrete specifications.
 18. Expansion bolts shall be 3/4" diameter "wedge" anchors as manufactured by Red Head or equal with a 3/12" minimum embedment into concrete.
 19. For miscellaneous steel construction not shown on Structural drawings, see Architectural drawings.

J. Vinton Schaffer & Sons
RECORD DRAWING
DATE: 5/2/88

REVISIONS		APPROVED		CHECKED	
NO.	DATE	ITEM	NO.	DATE	ITEM
1	5/2/88	AS-BUILT			

2067

1018-23

1018-23

RECORD DRAWING

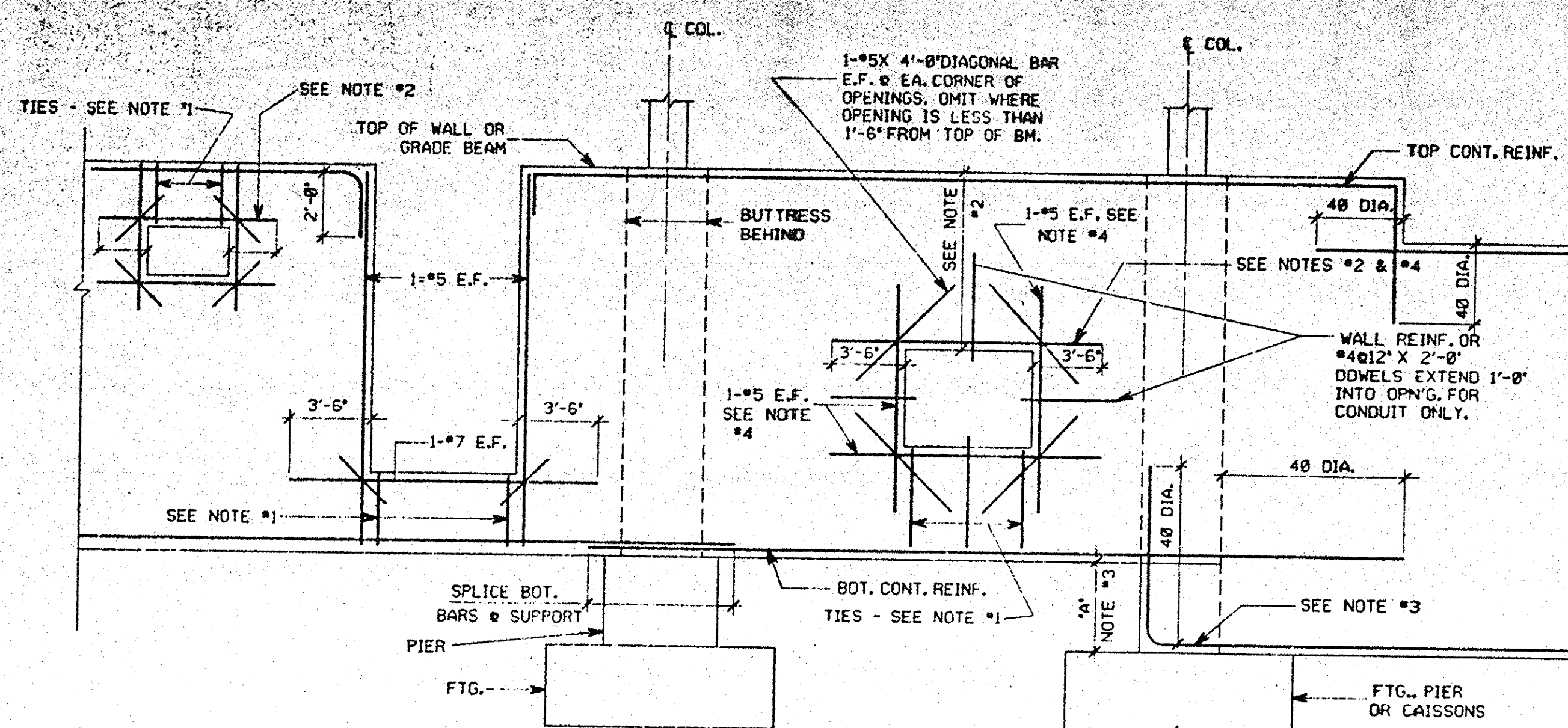
DATE: 5/2/88

J. VINTON SCHAFER & SONS, INC.
GENERAL CONTRACTORS
11150 Pulaski Highway - White Marsh, MD 21162

RTKL

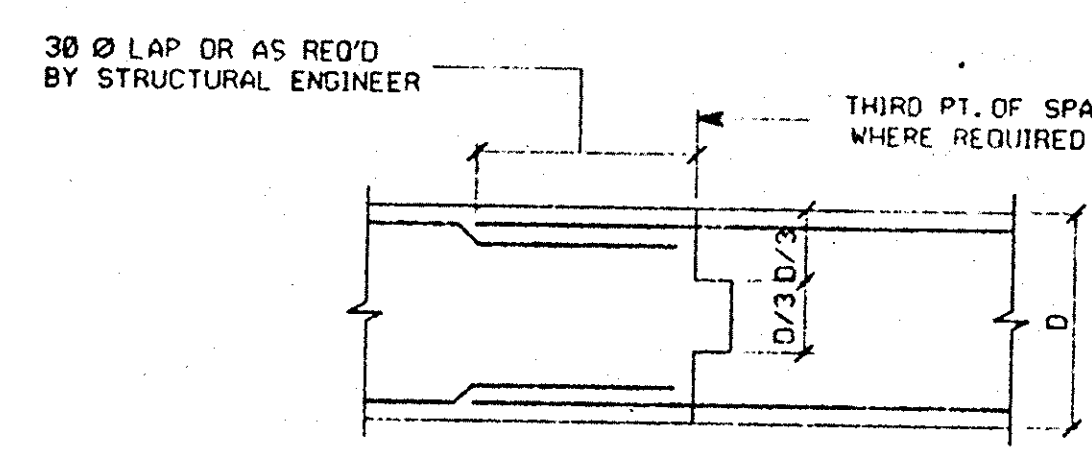
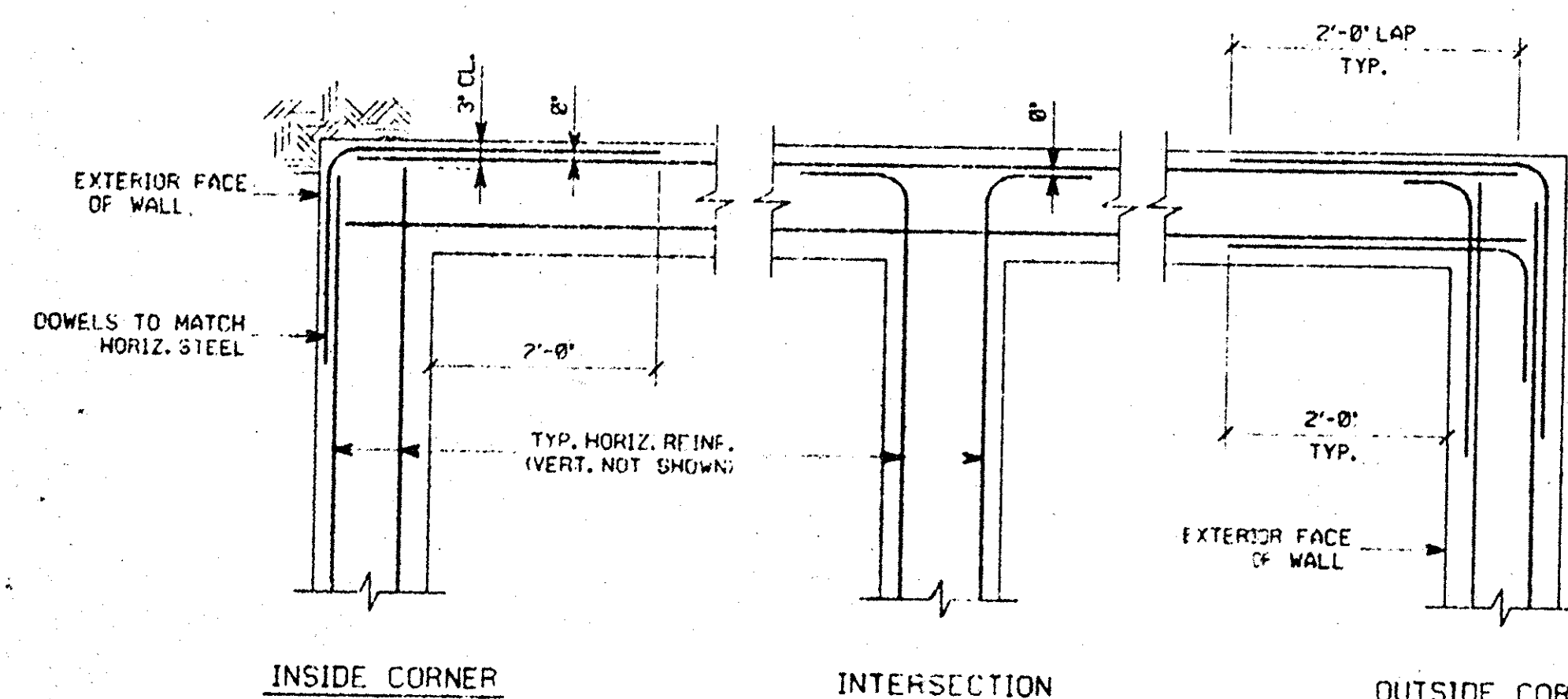
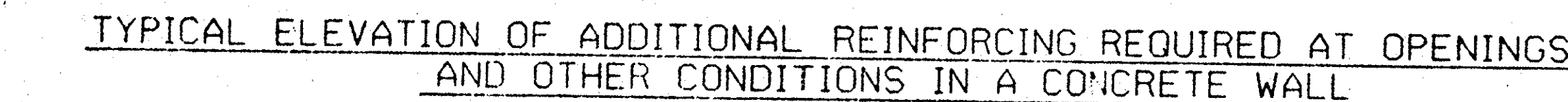
PART PLANS
& DETAILS

CONTR. NO.	85278	100	60
SCALE	AS NOTED		
DATE	7-25-86		
LAST REV	12-17-86		02

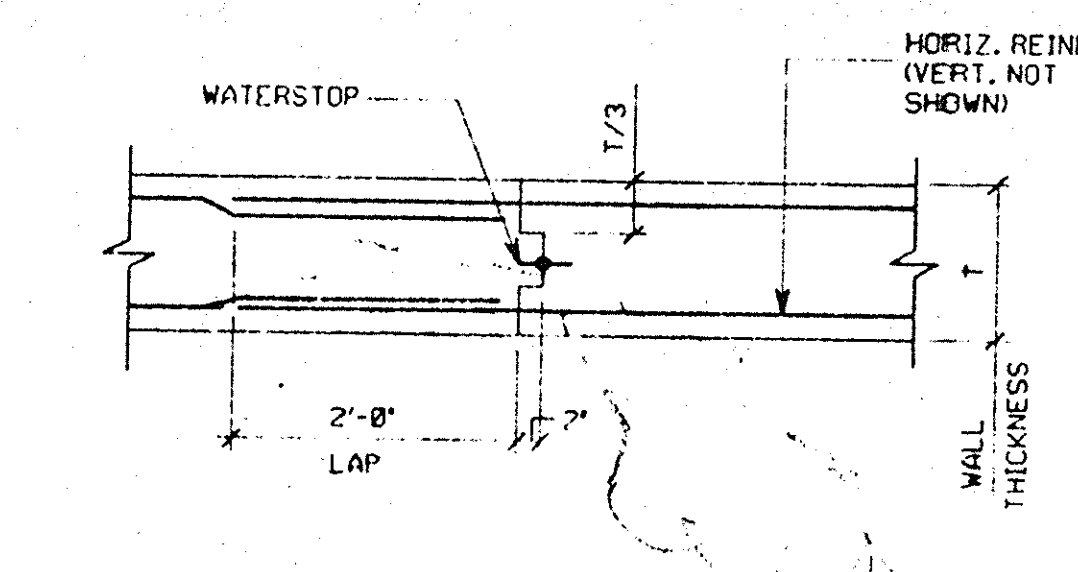
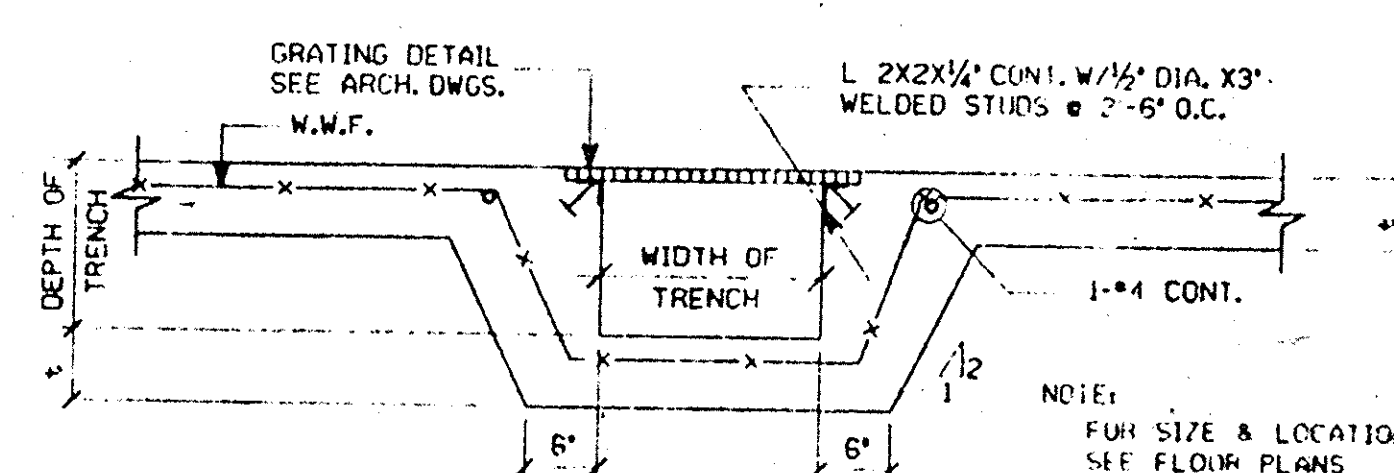


NOTES:

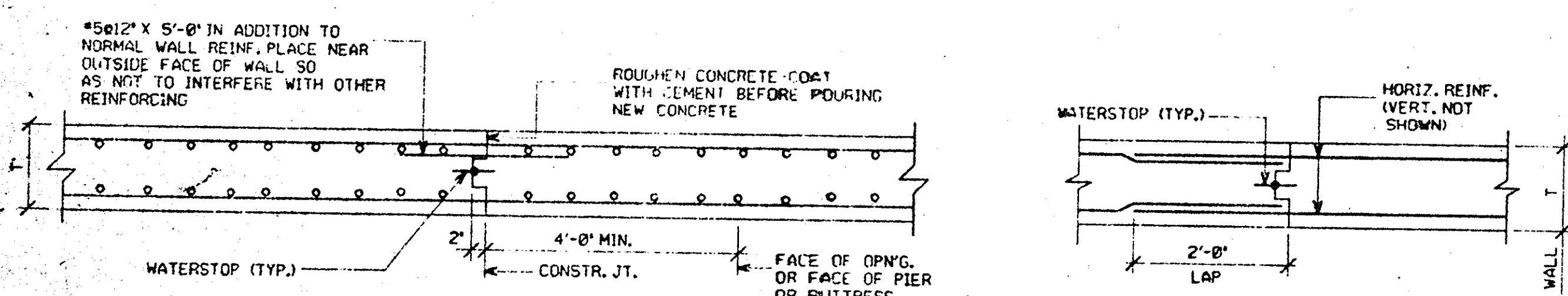
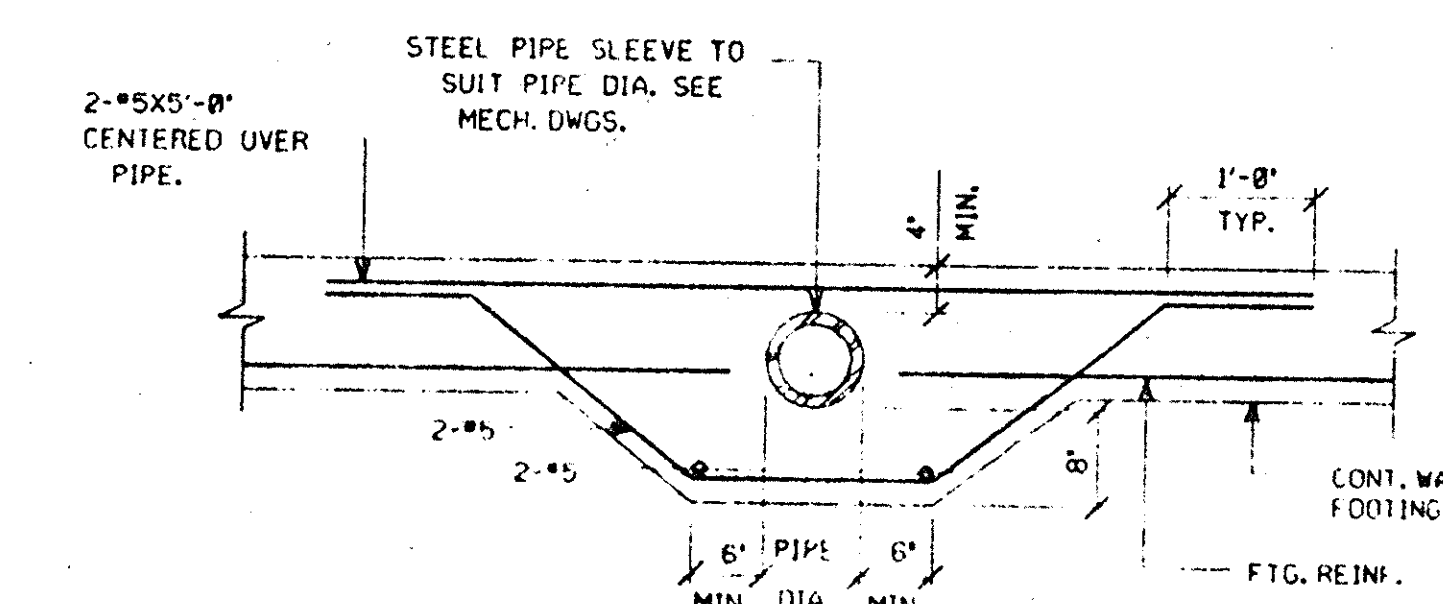
1. WHERE EDGE OF OPENING IS 2'-6" OR LESS FROM TOP OR BOTTOM OF WALL OR GRADE BEAM ADD $\#3 \square @ 12" O.C.$
2. WHERE EDGE OF OPENING IS 2'-6" OR LESS FROM TOP OF WALL OR GRADE BEAM ADD 1-#7 OVER OPENING.
(INSTEAD OF 1-#5 E.F. PROVIDE $\#3 \square TIES @ 12" O.C.$
3. WHERE DIMENSION 'A' EXCEEDS 1'-6" BOTTOM BARS MAY BE HOOKED 180 DEGREES.
4. ADD #5 BARS EACH SIDE OF OPENING EQUAL IN AREA TO $\frac{1}{2}$ OF INTERRUPTED BARS. MIN. 1-#5 E.F.



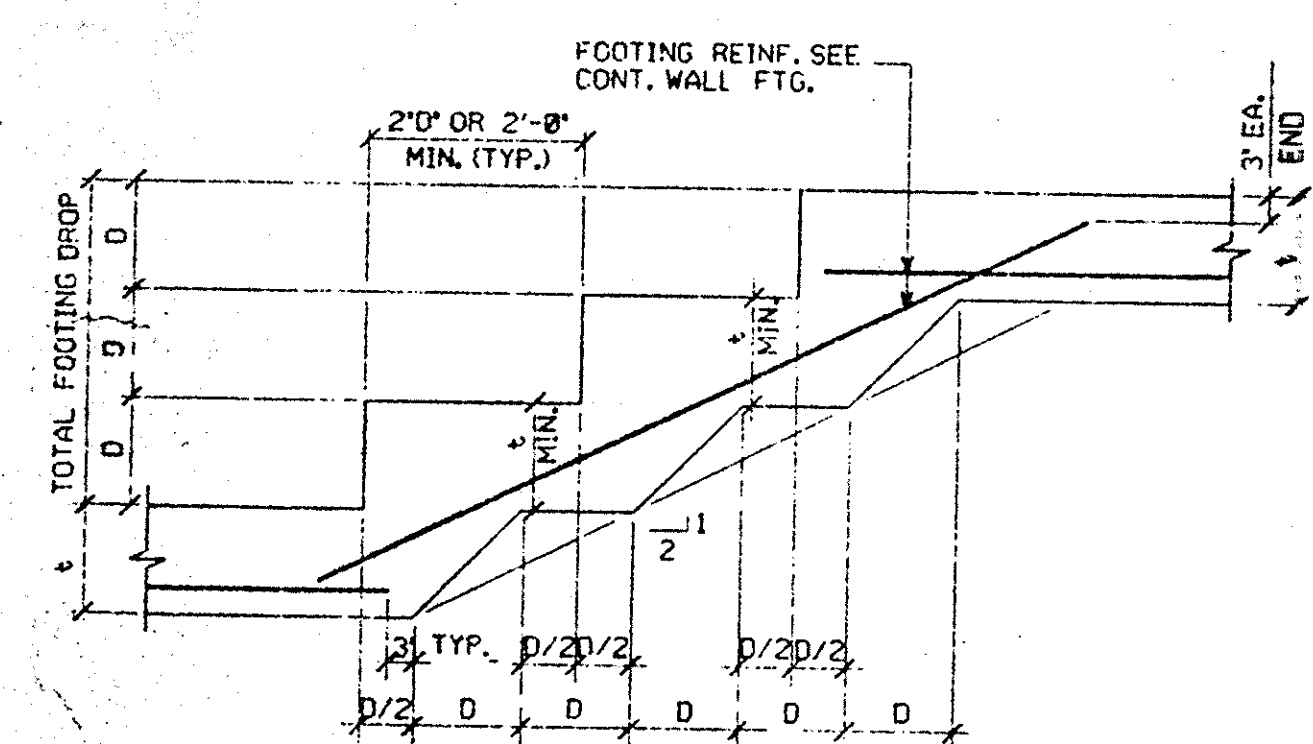
GRADE BEAM CONSTRUCTION JOINT DETAIL



WALL CONSTRUCTION JOINT DETAIL

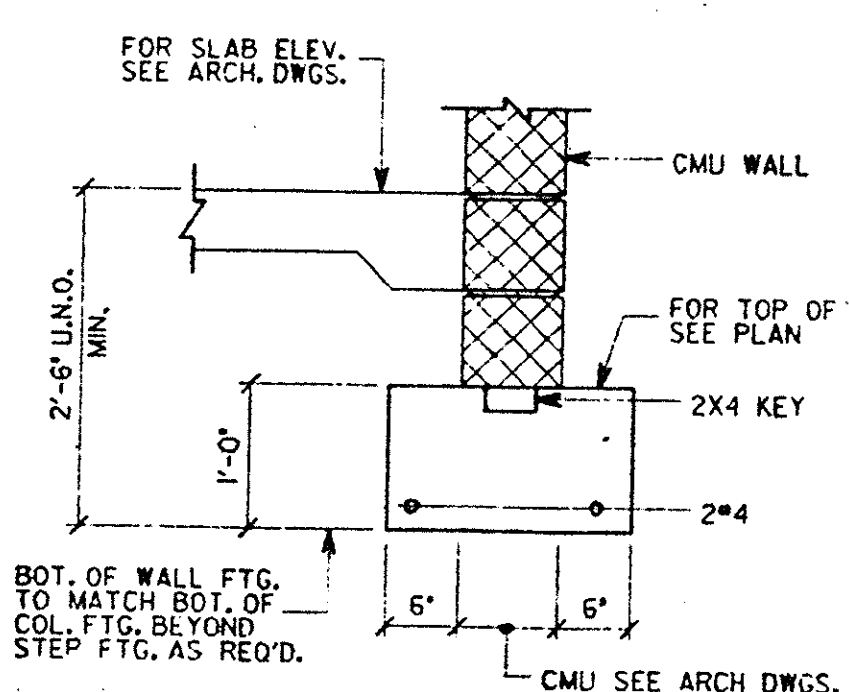


TYPICAL VERTICAL CONSTRUCTION JOINT DETAILS IN CONCRETE WALL

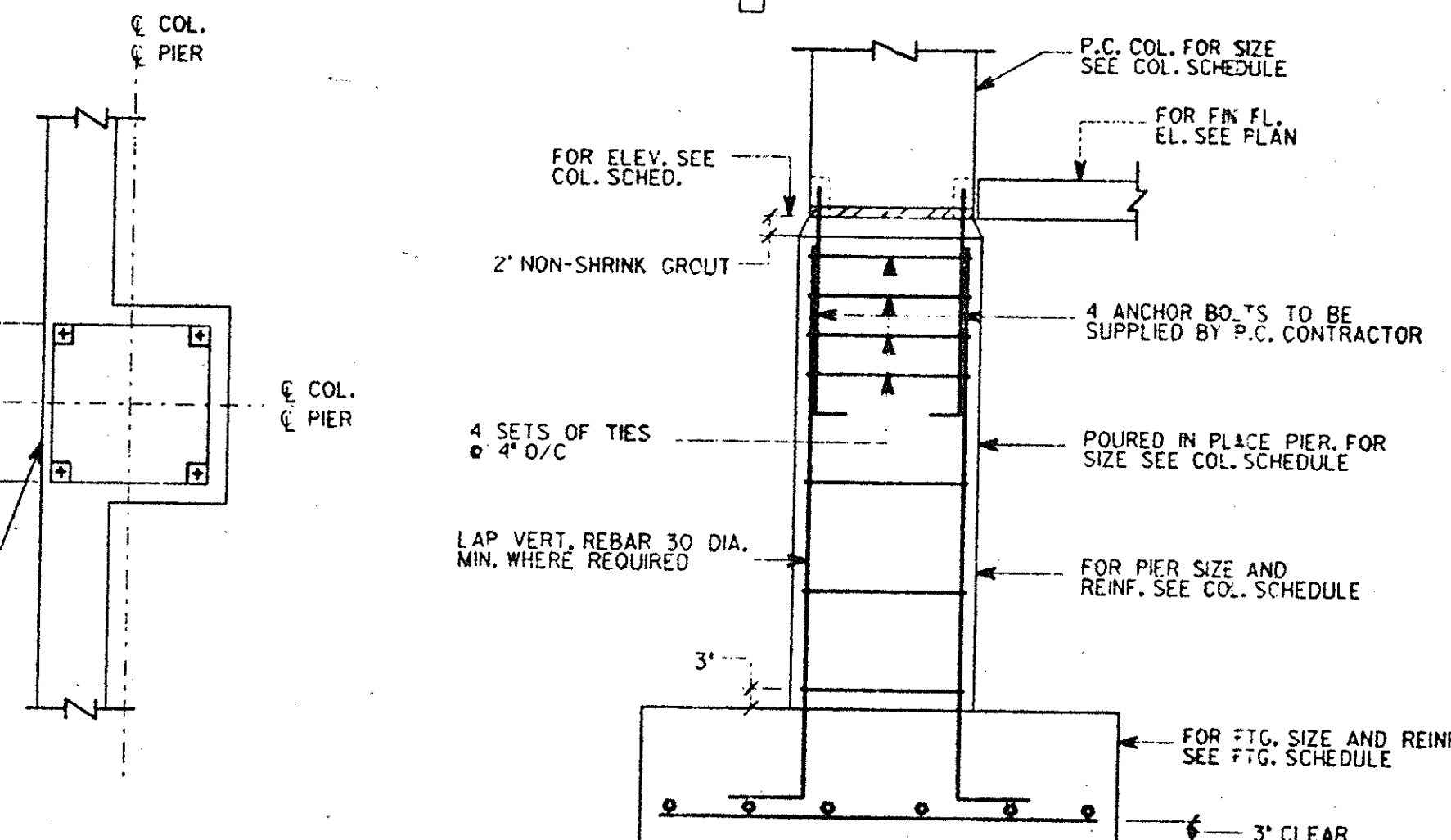


CONTINUOUS WALL FOOTING STEP DETAIL

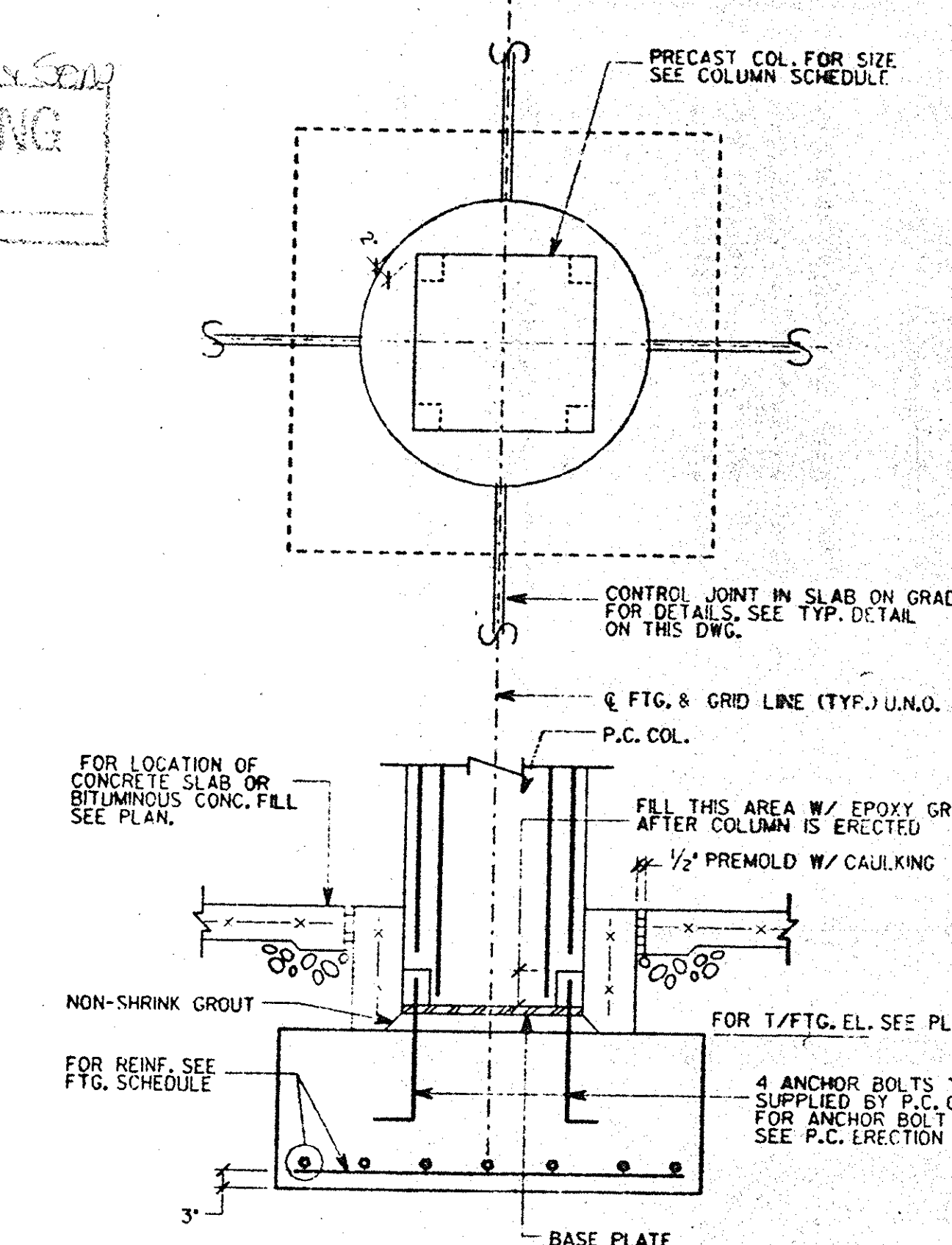
CONCRETE WALL REINFORCING (UNLESS OTHERWISE NOTED)					
		HORZ. REINF.		VERT. REINF.	
		SIZE	SPACING	SIZE	SPACING
6"	EN Q	#4	12" O.C.	#3	12" O.C.
8"	E.F.	#4	12" O.C.	#3	18" O.C.
10"	E.F.	#4	15" O.C.	#3	14" O.C.
12"	E.F.	#4	12" O.C.	#3	12" O.C.
14"	E.F.	#4	10" O.C.	#3	10" O.C.
16"	E.F.	#4	10" O.C.	#4	16" O.C.



TYPICAL CMU WALL FOOTING



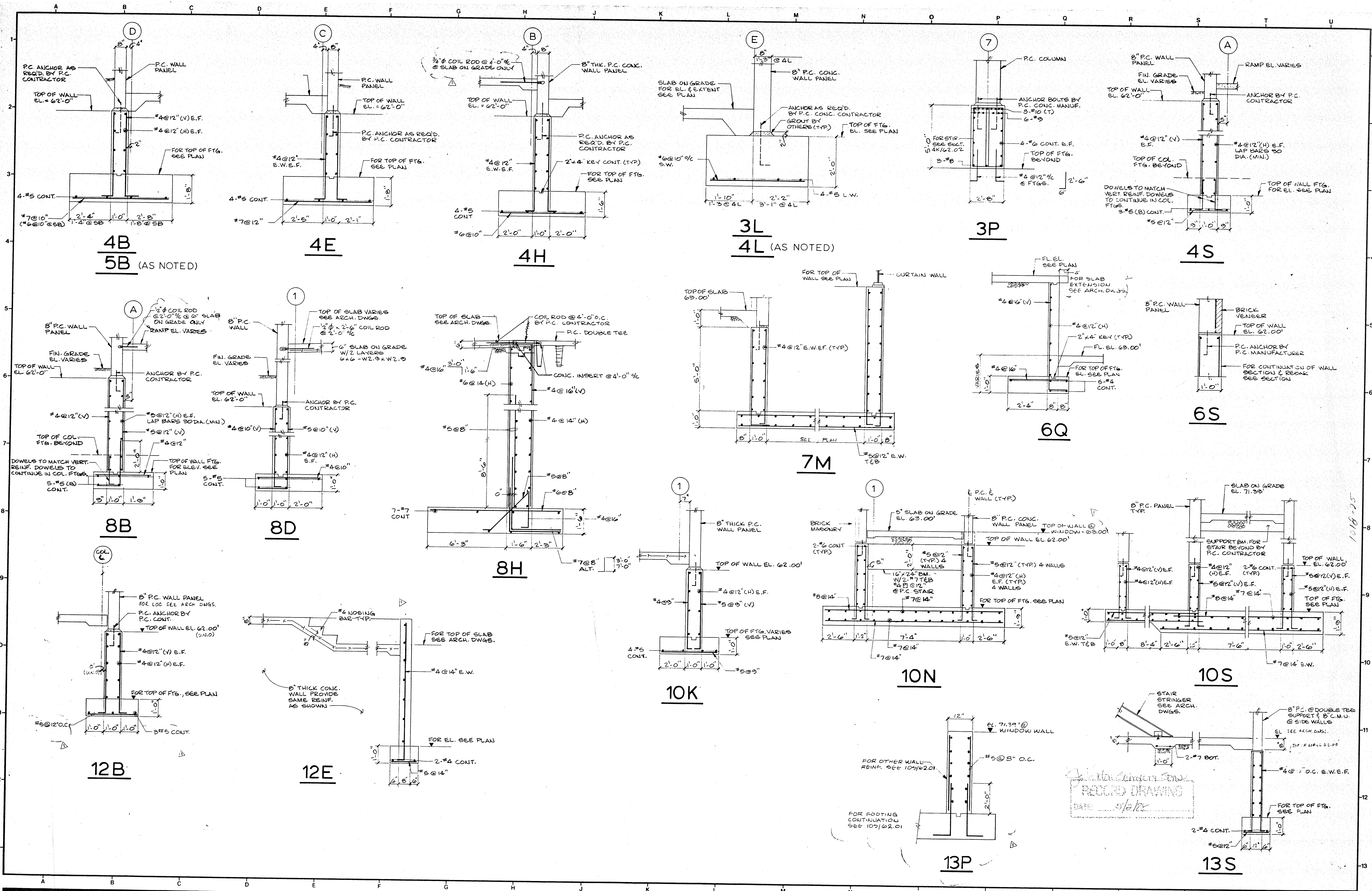
TYPICAL PRECAST COLUMN BASE
AND PIER DETAIL



TYPICAL INTERIOR PRECAST COL.
BASE AND FOOTING DETAIL

- FOUNDATIONS**
1. All surface fil materials, consisting of gravel, brick fragments, concrete chips and wood chips shall be removed in the regions of all foundations.
 2. All footings are to rest on undisturbed soil having a minimum safe bearing capacity of 3 tons per sq. foot. If the soil has a lower bearing capacity, the footings shall be cast on concrete or compacted earth having appropriate reduction or lowering of top soil bearing capacity for the purpose. The footings shall be cast on level ground. If the soil is reduced or increased in height as a result of raising and plans shall be added to the specifications. If the soil is found to be at a lower or higher elevation than shown on the plans, the contractor shall be required to finish grade unless the elevation of footings shall be 2'-6" minimum below the ground surface. The contractor shall be required to obtain counter approval of the Engineer in writing for any footing cast at a lower elevation than shown in the plans in which case footing may be raised as approved by the Engineer.
 3. Edges of footings shall not be placed at a greater than 1/4 inch to 1/2 inch from the vertical line of the column or wall.
 4. All adjacent column footings that abut shall be separated by a paper backing.
 5. Backfilling against walls shall not be done until concrete and/or masonry has been placed and cured. The backfill shall be placed in minimum and walls are properly shored and/or braced. Backfilling against walls shall be done in layers not exceeding 18" in height. The bottom of walls have been placed and have cured. Backfill foundation shall be done with earth from 1'-8" from the bottom of the wall. Backfilling each side so that height of backfills does not differ by more than 4" on each side.
 6. The contractor shall safeguard and protect excavations and all adjacent structures and utilities.
 7. Maximum length of foundation wall placed in one operation shall not exceed 40 feet.
 8. No horizontal joints shall be placed in walls except as shown on the plans. All joints without approval of the Engineer shall be rejected.
 9. The foundation contractor shall refer to the Mechanical and Electrical Specifications for specifications for trenches, pits, conduits, etc. not shown on the Structural Drawings.
 10. The contractor shall protect all work with the requirements of the specifications for the protection of the sections.

- [illegible]



PEARL STREET GARAGE

UNIVERSITY of MARYLAND at BALTIMORE, MARYLAND 21201

UMAB project no. 85 304 A

Approvals	
Director of Physical Plant	Project Architect
Department of General Services Project Administrator	Director of Engineering and Construction

No.	Date	Item	No.	Date	Item

Seal	
Drawn	
Checked	
Approved	

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GENERAL CONTRACTORS
11150 Pulaski Highway • White Marsh, MD 21162

RTKL ASSOCIATES, INC.
400 East Pratt Street
Baltimore, Maryland 21202

Contr. No.	8517800
Scale	AS SHOWN
Date	7-15-80
Last Rev.	2-1-80