THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

CONSTRUCTION PROJECT NO. CST 67-11

THE OAKLAND RIDGE INDUSTRIAL PARK

COLUMBIA, MARYLAND

DRAWING NUMBER — TITLE

CIVIL DRAWINGS

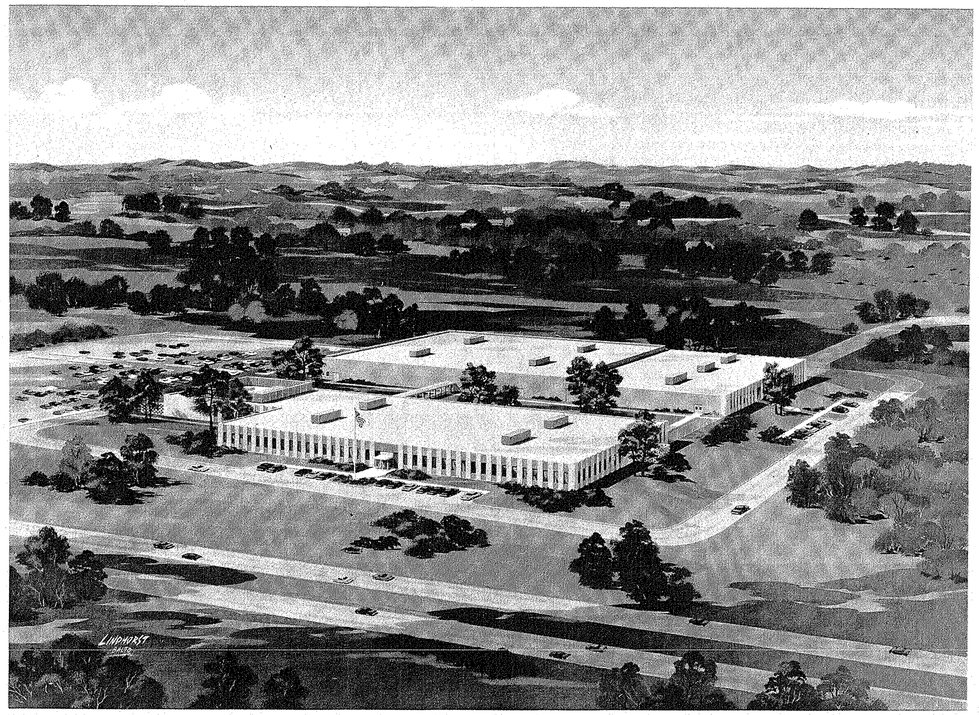
C-1 TITLE SHEET
C-2 GRADING & PAVING PLAN
C-3 LAYOUT & UTILITY PLAN
C-4 LANDSCAPE PLAN

ARCHITECTURAL DRAWINGS

A-1 OFFICE BUILDING-PLANS & SCHEDULES
A-2 OFFICE BUILDING-ELEVATIONS & CROSS SECTIONS
A-3 OFFICE BUILDING-TOILET AREAS & UTILITY ROOMS
A-4 DEPOT BUILDING-PLANS & SCHEDULES
A-5 DEPOT BUILDING-ELEVATIONS & CROSS SECTIONS
A-6 DEPOT BUILDING-PLANS, TOILET & UTILITY ROOMS
A-7 OFFICE & DEPOT BUILDINGS-SECTIONS & DETAILS
A-8 OFFICE & DEPOT BUILDINGS-CEILING PLANS
A-9 OFFICE & DEPOT BUILDINGS-ENTRANCE DETAILS & DOOR SCHEDULE
A-10 OFFICE & DEPOT BUILDINGS-ROOF PLANS

STRUCTURAL DRAWINGS

S-1 OFFICE BUILDING-FOUNDATION & ROOF FRAMING PLANS
S-2 DEPOT BUILDING-FOUNDATION PLAN & DETAILS
S-3 DEPOT BUILDING-ROOF FRAMING PLAN & DETAILS
S-4 OFFICE & DEPOT BUILDINGS-SECTIONS & DETAILS



DRAWING NUMBER — TITLE

MECHANICAL DRAWINGS

M-1 OFFICE BUILDING-HVAC, PLUMBING
M-2 OFFICE BUILDING-KITCHEN, TOILET ROOMS-PLUMBING
M-3 DEPOT BUILDING-HVAC, PLUMBING
M-4 DEPOT BUILDING-MULTILITH, ART & PHOTOGRAPHY AREAS-PLUMBING
M-5 DEPOT BUILDING-FIRE PROTECTION
M-6 DEPOT BUILDING-RISER DIAGRAMS, DETAILS
M-7 OFFICE & DEPOT BUILDINGS-DETAILS, DIAGRAMS & SCHEDULES

ELECTRICAL DRAWINGS

E-1 OFFICE & DEPOT BUILDINGS-LEGEND, GENERAL NOTES, & MISCELLANEOUS DETAILS
E-2 OFFICE BUILDING-LIGHTING PLANS & SPECIAL SERVICES
E-3 OFFICE BUILDING-POWER PLANS & DETAILS
E-4 OFFICE BUILDING-SWITCHBOARD LAYOUT, POWER RISER, & WIRING DIAGRAMS
E-5 DEPOT BUILDING-LIGHTING PLANS & SPECIAL SERVICES
E-6 DEPOT BUILDING-POWER PLANS & DETAILS
E-7 DEPOT BUILDING-SWITCHBOARD LAYOUT, POWER RISER, & WIRING DIAGRAMS

WHITMAN, REQUARDT AND ASSOCIATES

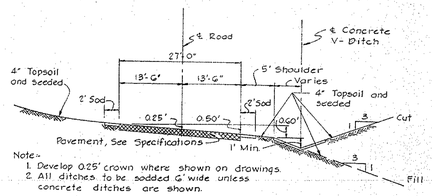
CONSULTING ENGINEERS BALTIMORE, MARYLAND

GENERAL NOTES

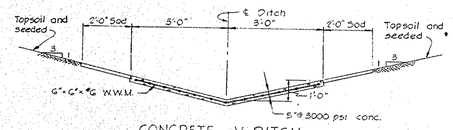
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAILS BOUND IN SPECS. UNLESS OTHERWISE SHOWN.
2. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 4' - 0" EXCEPT AS NOTED.
3. PROVIDE CONCRETE BUTTRESSES AT ALL HORIZONTAL BENDS & TEES AND CONCRETE ANCHORAGES AT VERTICAL CHANGES IN DIRECTION.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERTS UNLESS OTHERWISE NOTED.
5. EXISTING UTILITIES IN PART ARE FROM REFERENCE DRAWINGS AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY; THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION.
6. THE CONTRACTOR SHALL EXCAVATE FOR LOCATION AND DEPTH OF EXISTING UTILITIES BEFORE LAYING ANY PIPE.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS TO MAINTAIN THE ALIGNMENTS AND LOCATIONS SHOWN.
8. OUTSIDE SERVICES SHALL NOT BE INSTALLED IN FILLED AREAS UNTIL COMPACTED FILL HAS BEEN PLACED TO A MINIMUM ELEVATION OF 3 FEET OVER TOP OF PIPES.
9. ALL CONNECTIONS TO STORM DRAIN & SANITARY LINES SHALL BE MADE WITH STANDARD WYE FITTINGS UNLESS OTHERWISE SPECIFIED.
10. ALL EXISTING FACILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING PRIOR TO THIS CONTRACT.
11. ALL DRAINAGE PIPING SMALLER THAN 12" IN DIAMETER SHALL BE EXTRA HEAVY CAST IRON SOIL PIPE.
12. FOR EXACT LOCATION OF UTILITIES ENTERING BUILDINGS SEE MECHANICAL AND ELECTRICAL DRAWINGS.
13. CURB RADII AND DIMENSIONS TO CURBS ARE GIVEN TO FACE OF CURB.
14. THE BENCH MARK FOR THIS PROJECT IS PI 240 LOCATED AS SHOWN IN THE REFERENCE ON THIS SHEET. THE ELEVATION OF PI 240 IS 405.490.
15. THE LOCATION OF ALL ON SITE FACILITIES ARE REFERENCED TO TWO PROPERTY CORNERS ALONG THE NORTHERN SIDE OF LOT 61. THESE PROPERTY CORNERS SHALL BE ESTABLISHED PRIOR TO ANY STAKE OUT OF WORK TO BE PERFORMED UNDER THIS CONTRACT.

GENERAL NOTES

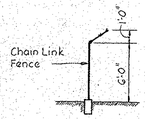
16. ALL SWALES TO BE ROLLED, TAMPED AND SODDED. ALL DISTURBED AREAS TO BE SEEDED IN CONJUNCTION WITH THE HOWARD COUNTY PLANNING COMMISSION AND HOWARD COUNTY SOIL CONSERVATION SERVICE. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
17. NO WALLS OVER 3' IN HEIGHT TO BE CONSTRUCTED ON SITE EXCEPT AS NOTED.
18. ZONED NEW TOWN EMPLOYMENT CENTER, INDUSTRIAL.
19. TOTAL EMPLOYEES - 850.
20. NO SALES AREA.
21. FINAL DEVELOPMENT PLAN REFERENCE PHASE 3C PB 14 FOLIO 63.
22. ALL ROADS AND PARKING AREAS TO REMAIN PRIVATE.
23. ALL UNPAVED DITCHES SHALL HAVE SIDE SLOPES 3 TO 1 MAXIMUM AND SHALL BE SODDED 6 FEET WIDE UNLESS OTHERWISE SHOWN.



TYPICAL ROADWAY SECTION
(UNLESS OTHERWISE SHOWN ON DRAWINGS)
Not to Scale



CONCRETE V-DITCH
(SEE PLAN FOR LOCATION)
Not to Scale



FENCE SCHEMATIC

SOUTH ELEVATION — SOUTH ELEVATION

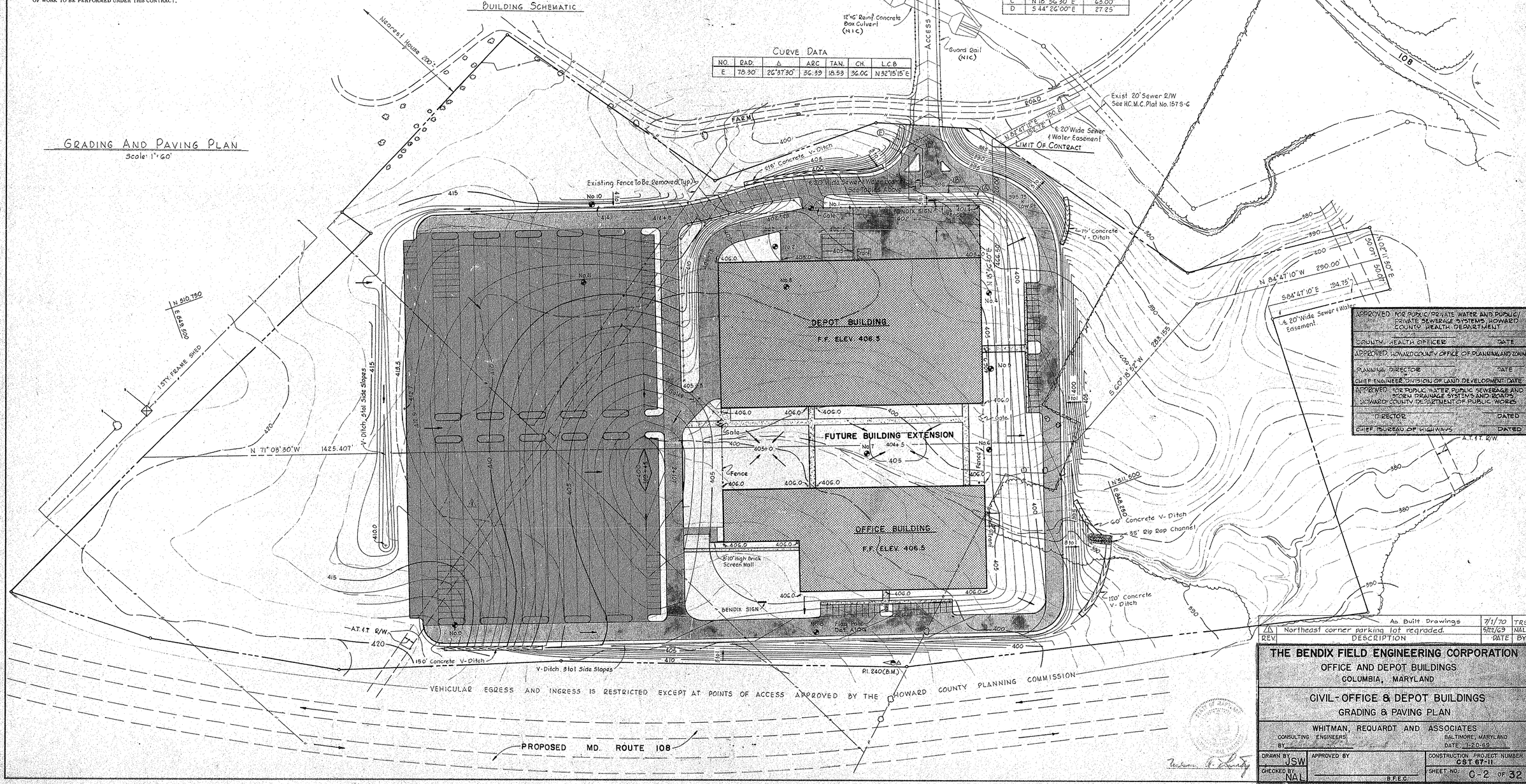
BUILDING SCHEMATIC

UTILITY EASEMENT

NO.	BEARING	DISTANCE
A	S 22°44' 50" E	57.89'
B	S 71° 08' 30" E	90.00'
C	N 18° 56' 30" E	63.00'
D	S 44° 26' 00" E	27.25

CURVE DATA

NO.	RAD.	Δ	ARC	TAN.	CH.	L.C.B.
E	78.30'	26°37'30"	36.39	18.53	36.06	N 32°15'15" E



GRADING AND PAVING PLAN

Scale: 1" = 60'

APPROVED: FOR PUBLIC/PRIVATE WATER AND PUBLIC/PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER	DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR	DATE
CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT	DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR	DATED
CHIEF, BUREAU OF HIGHWAYS	DATED

REV.	DESCRIPTION	DATE	BY
	As Built Drawings	7/1/70	TRB
1	Northeast corner parking lot regraded.	5/22/69	NAL

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

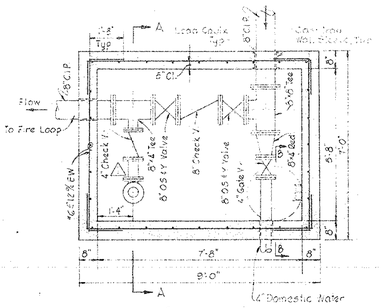
CIVIL - OFFICE & DEPOT BUILDINGS
GRADING & PAVING PLAN

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: — DATE: 1-20-69

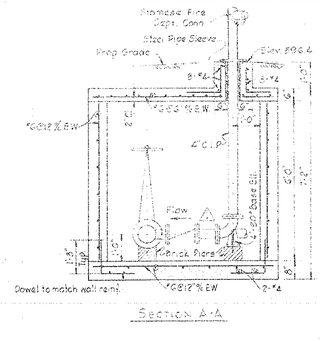
DRAWN BY: JSW	APPROVED BY: B.F.E.C.	CONSTRUCTION PROJECT NUMBER: CST 67-11
CHECKED BY: NAL		SHEET NO. C-2 OF 32

LEGEND

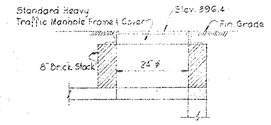
- Existing Roads
- Existing Fence
- Woods
- Stream
- Existing Building
- 400 — Existing Contours
- 405 — Proposed Contours
- 405+0 — Spot Elevations
- Bench Mark
- No 1 — Test Pits
- Type A Concrete Curb
- Proposed Fence
- Property Line & Prop Cor
- Type A Paving
- Type B Paving
- Concrete Sidewalk
- Proposed Buildings
- 8"S — Proposed Sanitary Sewer & Manholes
- 21"D, 4"W — Proposed Storm Drains, Manhole & Inlets
- Proposed Water Line
- 8"FW — Proposed Fire Water (Fire Line) & Hydrants
- 5"Gas — Proposed Gas Line
- Duct bank
- PC — Buried pre-assembled cable 2"G & 1"B bare - 1"C
- E — BG&E Co. buried primary voltage line
- 400 Watt mercury - vapor roadway luminaire on steel pole Single arm - Double arm (Type as shown)
- 400 Watt mercury - vapor architectural luminaire on alum pole Single arm - Double arm (Type as shown)



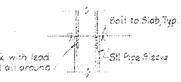
PLAN

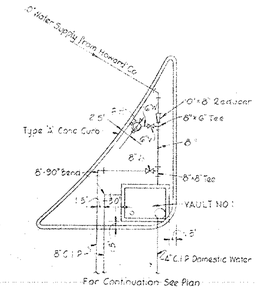


SECTION A-A



SECTION B-B





DETAIL No 1 △
Not To Scale

NOTES

1. All concrete shall be 3000 psi @ 28 days
2. All pipe, valves, and fittings within vault shall be standard 125# flanged.

NOTE

1. ALL CONSTRUCTION REQUIRED OUTSIDE OF THE PROPERTY WILL BE PERFORMED BY OTHERS
2. THE ACCESS ROAD TO THE PROPERTY LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH DRAWINGS 1 THRU 4 ENTITLED "OAKLAND RIDGE INDUSTRIAL PARK, BENDIX ACCESS ROAD" DATED 15 NOVEMBER, 1965, PREPARED BY R. D. BROWN ASSOCIATES.

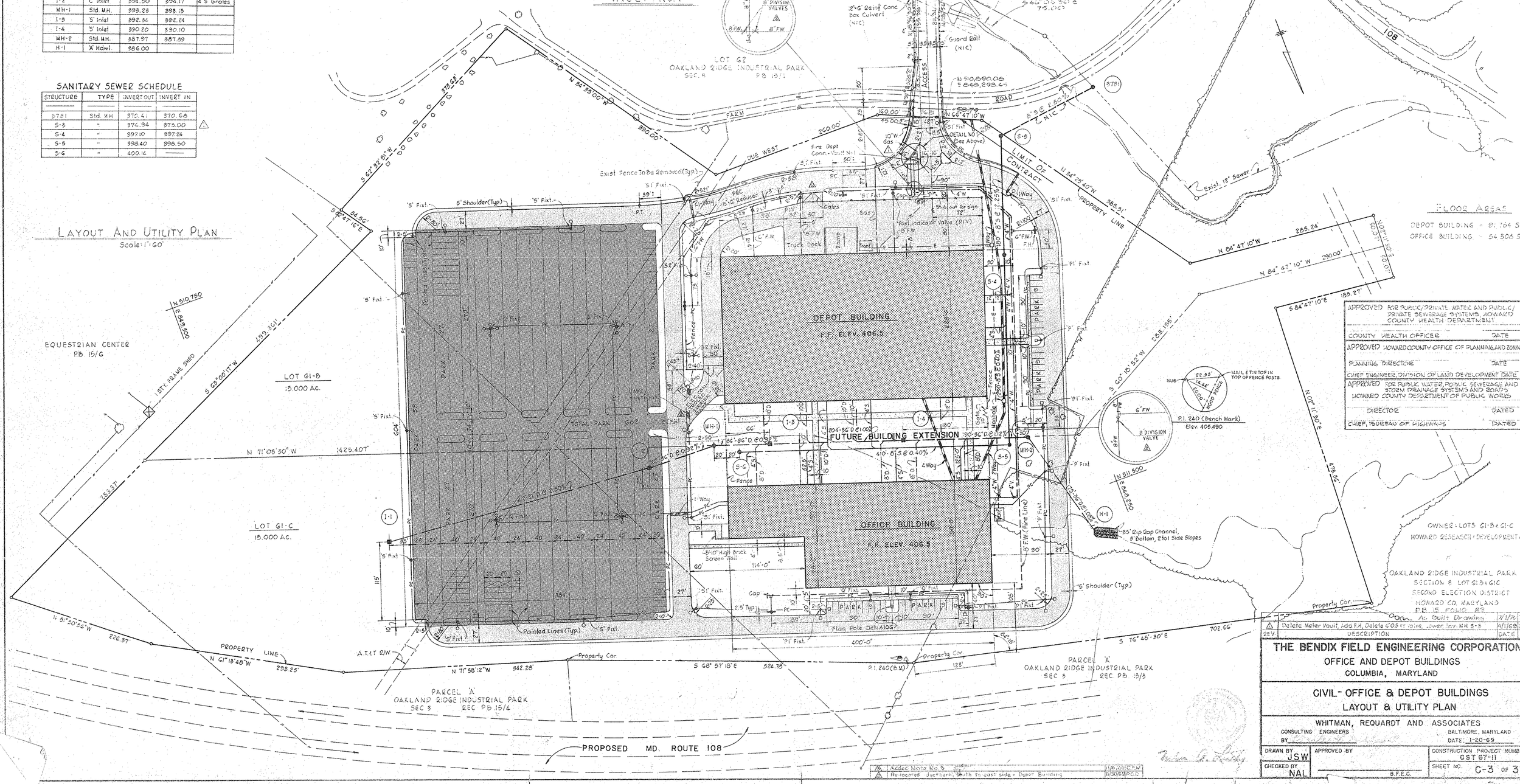
△ [illegible]

STORM DRAIN SCHEDULE

STRUCTURE	TYPE	INVERT IN	INVERT OUT	REMARKS
1-1	'D' Inlet		406.04	4 Sides open
1-2	'C' Inlet	394.50	394.17	4 'S' Grates
MH-1	Std. M.H.	393.23	393.13	
1-3	'S' Inlet	392.34	392.24	
1-4	'S' Inlet	390.20	390.10	
MH-2	Std. M.H.	387.97	387.89	
H-1	'A' Hdwl.	386.00		

SANITARY SEWER SCHEDULE

STRUCTURE	TYPE	INVERT OUT	INVERT IN
3781	Std. M.H.	370.41	370.68
S-3	"	372.94	373.00 △
S-4	"	397.10	397.24
S-5	"	398.40	398.50
S-6	"	400.16	———



FLOOR AREAS

DEPOT BUILDING = 91,764 S.F.
OFFICE BUILDING = 54,308 S.F.

APPROVED FOR PUBLIC/PRIVATE WATER AND PUBLIC/PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE

CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT — DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATED

CHIEF, BUREAU OF HIGHWAYS — DATED

REV.	DESCRIPTION	DATE	BY
△	As Built Drawing	1/1/76	TRS
△	Delete Meter Vault, Add F.H., Delete 6"x3" Valve, Lower Inv. MH S-5	6/1/69	NAL

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

CIVIL - OFFICE & DEPOT BUILDINGS
LAYOUT & UTILITY PLAN

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY — DATE: 1-20-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
JSW		CST 67-11
CHECKED BY NAL	B.F.E.C.	SHEET NO. C-3 OF 32

△ Added Note No. 3 — 11/6/69 CEN
△ Re-located Justtherk, Depth to east side - Depot Building — 6/30/69 PCC

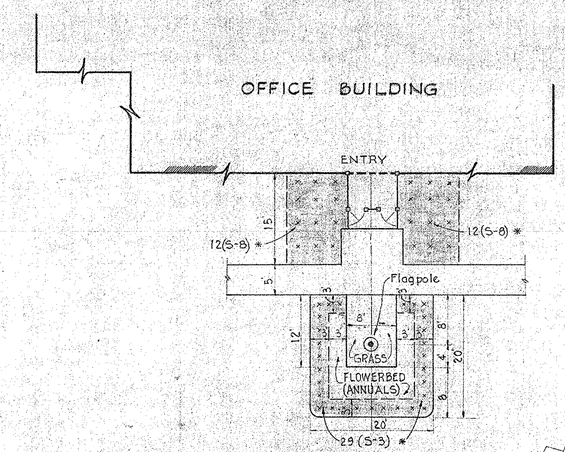
PLANT SCHEDULE

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	REMARKS	TOTAL QUANT.
T-1	ACER SACCHARUM - SUGAR MAPLE	3"-3½" Cal.		4
T-2	CORNUS FLORIDA - WHITE DOGWOOD	8'-10'		4
T-3	FRAXINUS QUADRANGULATA - BLUE ASH	3½"-4" Cal.		3
T-4	GLEDITSIA TRI. INERMIS - "SHADEMASTER" HONEYLOCUST	3"-3½" Cal.	Similar Outline	12
T-5	LIQUIDAMBER STYRICFLUA - SWEETGUM	3½"-4" Cal.		4
T-6 & T-6F	MALUS SARGENTI / FLORIBUNDA - SARGENT / JAP. FL. CRAB	5'-6' / 6'-8'		24 / 8
T-7	PHELLODENDRON AMURENSE - CORK TREE	12'-14'		2
T-8	PLATANUS OCCIDENTALIS - AMERICAN PLAIN TREE	3"-3½" Cal.		6
T-9	QUERCUS BOREALIS - NORTHERN RED OAK	3"-3½" Cal.		7
T-10	QUERCUS PALUSTRIS - PIN OAK	2½"-3" Cal.		4
T-11 / T-11x	PICEA ABIES - NORWAY SPRUCE	12'-14' / 6'-8'		6 / 6
T-12	PINUS STROBUS - WHITE PINE	8'-10'		25
T-13	OXYDENDRUM ARBOREUM - SOURWOOD	6'-8'		2
S-1	AZALEA - KUROME TYPE	18"-24"	Red Evergreen	100
S-2	ILEX CRENATA CONVEXA - CONVEX LEAF JAP. HOLLY	24"-30"		24
S-3	ILEX CORNUTA BURFORDI - DWARF BURFORD HOLLY	15"-18"		29
S-4	JUNIPERUS CHINENSIS PFITZ. - PFITZER JUNIPER	18"-24"		14
S-5	JUNIPERUS CHINENSIS PFITZ. - PFITZER JUNIPER	3'-3½'	Each Side - Matched Pairs	4
S-6	FORSYTHIA SUSPENSA - WEEPING FORSYTHIA	3'-4'	Single Row 6' c. to c.	35
S-7	SPIREA VANHOUTTEI - VANHOUTTE SPIREA	4'-5'	Single Row - 5' c. to c.	56
S-8	TAXUS BACCATA REPANDENS - ENGLISH SPREAD YEW	24"-30"		24
S-9	VIBURNUM RHYTIDOPHYLLUM - LEATHERLEAF VIBURNUM	3'-4'		3
W	SALIX BABYLONICA - BABYLON WEEPING WILLOW	2"-2½" Cal	10'-12' Ht	1

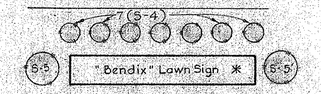
TREES

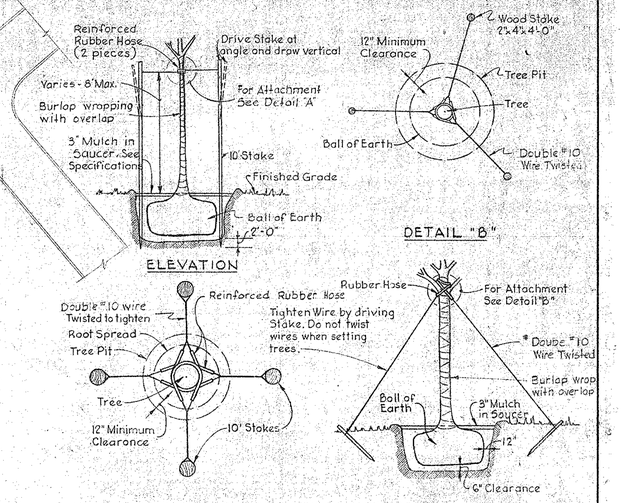
SHRUBS

NOTE: * INDICATES REQUIRED INITIAL PLANTING.



DETAIL — ENTRY
Scale: 1"=10'





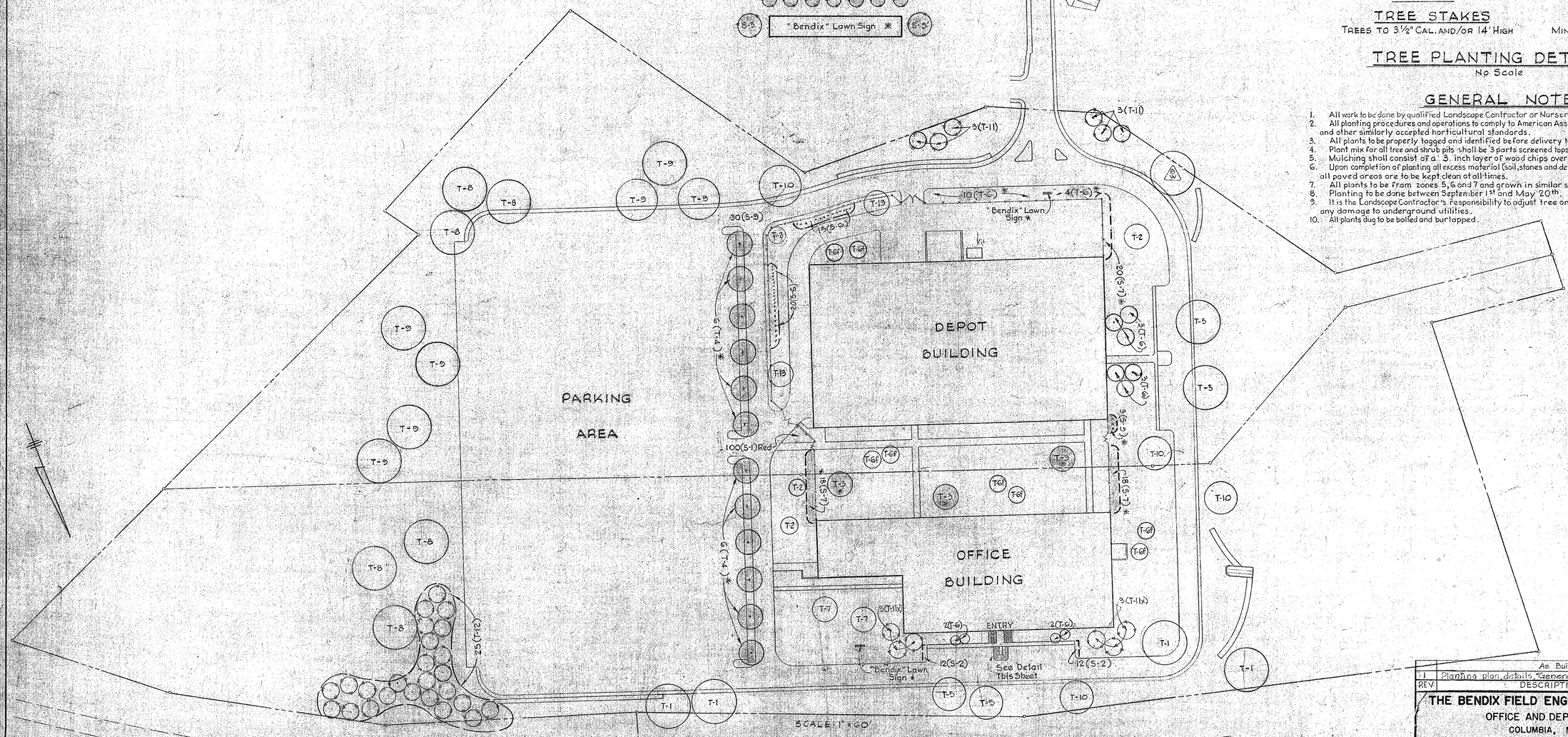
DETAIL "A"
TREE STAKES
TREES TO 3½" CAL. AND/OR 14' HIGH

ELEVATION
TREE GUYING
MINOR LOW BRANCHING TREES AND/OR OVER 3½" CAL.

TREE PLANTING DETAILS
No Scale

GENERAL NOTES

1. All work to be done by qualified Landscape Contractor or Nurseryman approved by Architect/Engineer.
2. All planting procedures and operations to comply to American Association of Nurserymen standards and other similarly accepted horticultural standards.
3. All plants to be properly tagged and identified before delivery to site, freshly dug and nursery grown.
4. Plant mix for all tree and shrub pits shall be 3 parts screened topsoil and 1 part peat moss, thoroughly mixed.
5. Mulching shall consist of a 3 inch layer of wood chips over entire area of tree pit & shrub beds.
6. Upon completion of planting all excess material (soil, stones and debris) shall be removed from site; all paved areas are to be kept clean at all times.
7. All plants to be from zones 5, 6 and 7 and grown in similar soil conditions as site.
8. Planting to be done between September 1st and May 20th.
9. It is the Landscape Contractor's responsibility to adjust tree and shrub plantings so as to avoid any damage to underground utilities.
10. All plants dug to be balled and burlapped.



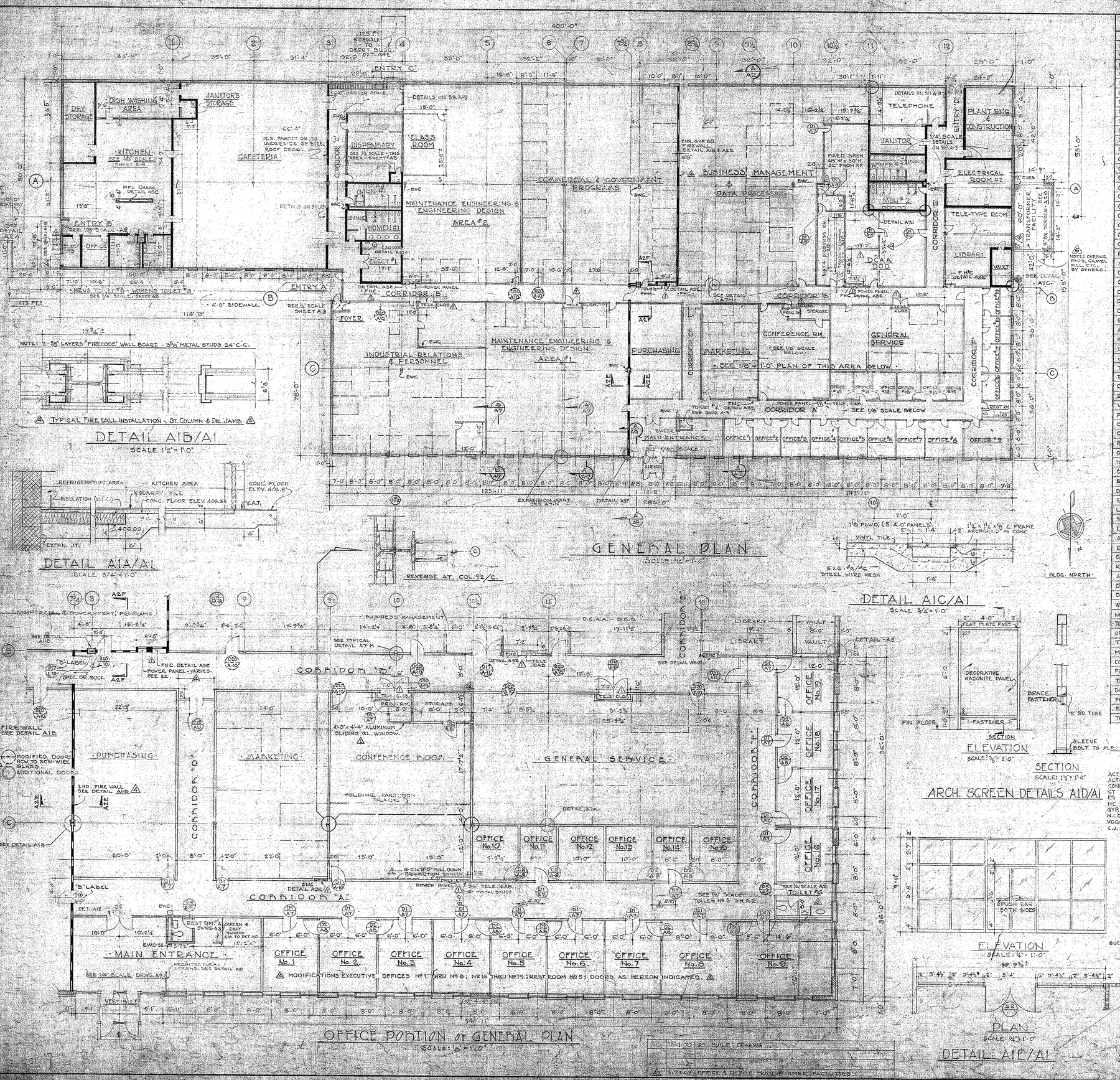
REV.	DESCRIPTION	DATE	BY
	As Built Drawing	7-1-70	TRE
1	Planting plan, details, "General Notes" & Plant Schedule	7-13-69	EER

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

CIVIL
LANDSCAPE PLAN

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY Charles F. Mullaney — DATE: 1-20-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
D.K.H.		GST 67-11
CHECKED BY	B.F.E.C.	SHEET NO. C-4 OF



FINISH SCHEDULE

ROOM	AREA	FLOOR	BASE	WALL	CEILING	REMARKS
MAINT. ENG. & ENG. DESIGN	785 SF	VAT	VCB	CBP - PGB	ACT	
VESTIBULE		VAT	VCB	VCGB	ACT	SEE DETAIL ON A1 - COLORED VINYL
RECEPTIONIST		VAT	VCB	PGB	ACT	
OFFICE NO. 1		CARPET	VCB	PGB	ACT	△ VCGB ; CARPET ; SIZE
OFFICE NO. 2		CARPET	VCB	VCGB	ACT	△ SIZE
OFFICE NO. 3		CARPET	VCB	VCGB	ACT	△ SIZE
OFFICE NO. 4		CARPET	VCB	VCGB	ACT	△ SIZE
OFFICE NO. 5		CARPET	VCB	VCGB	ACT	△ SIZE
OFFICE NO. 6		CARPET	VCB	VCGB	ACT	VCGB - WOOD GRAIN △ SIZE
OFFICE NO. 7		CARPET	VCB	VCGB	ACT	VCGB - WOOD GRAIN △ SIZE
OFFICE NO. 8		CARPET	VCB	VCGB	ACT	VCGB - WOOD GRAIN △ SIZE
OFFICE NO. 9		CARPET	VCB	VCGB	ACT	VCGB - WOOD GRAIN
OFFICE NO. 10		VAT	VCB	PGB	ACT	
OFFICE NO. 11		VAT	VCB	PGB	ACT	
OFFICE NO. 12		VAT	VCB	PGB	ACT	
OFFICE NO. 13		VAT	VCB	PGB	ACT	
OFFICE NO. 14		VAT	VCB	PGB	ACT	
OFFICE NO. 15		VAT	VCB	PGB	ACT	
OFFICE NO. 16		VAT	VCB	PGB	ACT	△ SIZE ; VAT ; PGB
OFFICE NO. 17		VAT	VCB	PGB	ACT	△ SIZE
OFFICE NO. 18		VAT	VCB	PGB	ACT	△ SIZE
OFFICE NO. 19		VAT	VCB	PGB	ACT	△ SIZE
PURCHASING		VAT	VCB	PGB	ACT	
MARKETING		VAT	VCB	PGB	ACT	
CORRIDOR "A"		VAT	VCB	PGB	ACT	
CORRIDOR "D"		VAT	VCB	PGB	ACT	
CONFERENCE ROOM		VAT	VCB	PGB	ACT	FOLDING PARTITION - DETAIL A8A
GENERAL SERVICE		VAT	VCB	PGB	ACT	
CORRIDOR "F"		VAT	VCB	PGB	ACT	
ELECTRICAL ROOM NO. 3		HC	—	CBP	ES	
MEN NO. 2		CT	CT	CT & CBP	ACT-WP	4'-0" HT. WAINSCOT
WOMEN NO. 2		CT	CT	CT & CBP	ACT-WP	4'-0" HT. WAINSCOT
LOUNGE NO. 2		VAT	VCB	CBP	ACT	SEE 1/4" SCALE DRWG ON SHEET A3
JANITOR		HC	—	CBP	ES	
TELEPHONE		HC	—	CBP	ACT	
TELE-TYPE & VESTIBULE		VAT	VCB	CBP	ACT	
CORRIDOR "B"		VAT	VCB	PGB & CBP	ACT	
ENTRY "C"	△ CONC. *	— *		CBP	STUCCO *	△ MODIFICATIONS
VAULT		HC	—	CBP	ES	FIREPROOF CEILING
PLANT ENG. & CONST.		VAT	VCB	CBP	ACT	
D.C.A.A. - DOD		VAT	VCB	PGB	ACT	
CORRIDOR "E"		VAT	VCB	PGB	ACT	
BUS. MGT. & DATA PROB.		VAT	VCB	PGB	ACT	
COMM. & GOV. PROGRAMS		VAT	VCB	PGB	ACT	
INDUSTRIAL REL. & PERS.		VAT	VCB	PGB	ACT	
CORRIDOR "D"		VAT	VCB	PGB & CBP	ACT	
ENTRY "B"	△ CONC. *	— *	FACE BRICK	STUCCO *	△ MODIFICATIONS	
DISPENSARY		VAT	VCB	CBP	ACT	
ELECTRICAL ROOM #1 & #2		HC	—	CBP	ES	
LIBRARY		VAT	VCB	CBP & PGB	ACT	
WOMEN NO. 1		CT	CT	CT & CBP	ACT-WP	4'-6" HT. WAINSCOT
LOUNGE NO. 1		VAT	VCB	CBP	ACT	4'-6" HT. WAINSCOT
MEN NO. 1		CT	CT	CT & CBP	ACT-WP	
ENTRY "A"	△ CONC. *	— *	FACE BRICK	STUCCO *	△ MODIFICATIONS	
CAFETERIA		VAT	VCB	CBP	ACT	
KITCHEN		QT	QT	GCB	ACT-WP	
JANITOR'S STORAGE (KIT.)		QT	QT	GCB	ACT-WP	
DISH WASHING AREA		QT	QT	GCB	ACT-WP	
DRY STORAGE (KIT.)		QT	QT	CBP	ACT-WP	
WOMEN NO. 3		QT	QT	CBP	ACT-WP	
MEN NO. 3		QT	QT	CBP	ACT-WP	
TOILET NO. 4		CT	CT	CT & PGB	ACT-WP	4'-6" HT. CT. WAINSCOT
OFFICE - KITCHEN		QT	QT	GCB & EP	ACT-WP	
TOILET NO. 5 △		CT	QT	CT & CBP	ACT-WP	4'-6" HT. CT. WAINSCOT △
MOPCEPTORS		QT (KITCH.) QT (DINING)	QT QT	GCB GCB	ACT-WP ACT-WP	4'-6" HT. CT. WAINSCOT
CONFERENCE RM. STORAGE		VAT	VCB	PGB	ACT	
PROJECTION ROOM		VAT	VCB	PGB	ACT	
TELEPHONE CLOSETS (4)		VAT	VCB	PGB	GYP. BD.	
DATA PROCESSING ROOM		VAT	VCB	PGB	ACT	TRENCH IN FLOOR - DETAIL A1C
FOYER (IND. RELATIONS)		△ VAT *	VCB *	CBP *	ACT-WP *	△ MODIFICATIONS
ENTRY "D"		△ CONC. *	—	CPB *	STUCCO *	△ MODIFICATIONS
TOILET ROOM NO. 6		CT	CT	CT & CBP	ACT-WP	4'-6" CT. WAINSCOT

LIST OF ABBREVIATIONS

ACT	ACCOUSTIC CEILING TILE		CBP	CONCRETE BLOCK, PAINTED
ACT-WP	ACCOUSTIC CEILING TILE	WATERPROOF	PGB	PAINTED GYPSUM BOARD
CONC.	CONCRETE		QT	QUARRY TILE
CT	CERAMIC TILE		VAT	VINYL - ASBESTOS TILE
ES	EXPOSED STRUCTURE		VCB	VINYL COVE BASE
HC	HARDENED CONCRETE		WD. PAN	WOOD PANELING (VINYL)
GYP. BD.	GYPSUM BOARD		GCB	GLAZED CONCRETE BLOCK
N.I.C.	NOT IN CONTRACT		EP	EPOXY PAINT
VCGB	VINYL COVERED GYP. BOARD		EWC(SR)	ELECTRIC WATER COOLER (SEMI-RECESSED)
C.J.	CONTROL JOINT		FHC	FIRE HOSE CABINET
			HM	HOLLOW METAL
			HCW	HOLLOW CORE WOOD
			SCW	SOLID CORE WOOD

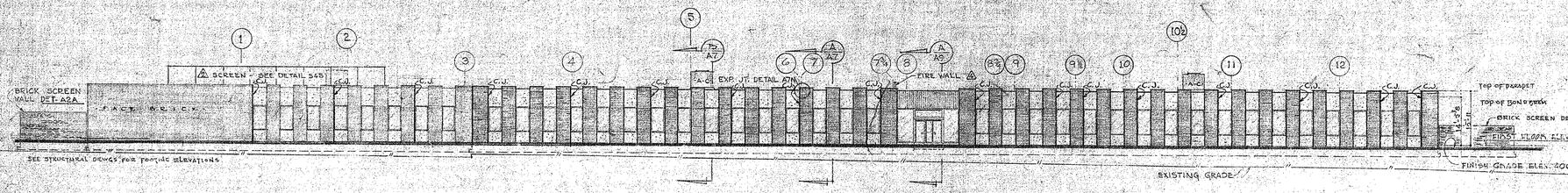
LEGEND

- FIRE WALL
- MASONRY WALLS TO UNDERSIDE OF ROOF DECK.
- MASONRY WALL - ONE COURSE ABOVE CEILING
- GYPSUM BOARD PARTITION TO UNDERSIDE OF CEILING EXCEPT WHERE NOTED.
- BANK PARTITIONS (N.I.C.)
- BY OTHERS
- INSULATED GYP BOARD PARTITION.
- REVISION DATE
- △ PUSH BAR BOTH SIDES

DOOR NO. D1 A-1 BUCK NO. HARDWARE NO.

NOTES: SEE BOTTOM OF SHEET FOR ADDITIONAL REVISIONS

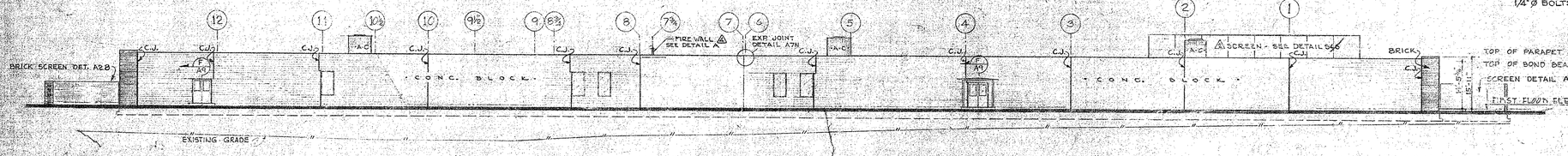
△	FINISH MODIFICATIONS	△ 4-15-69	FIRE WALL; OFFICES; DOORS
△	1-15-69 AS NOTED ON DRAWING	△ 2-21-69	CAN WASH



NORTH ELEVATION

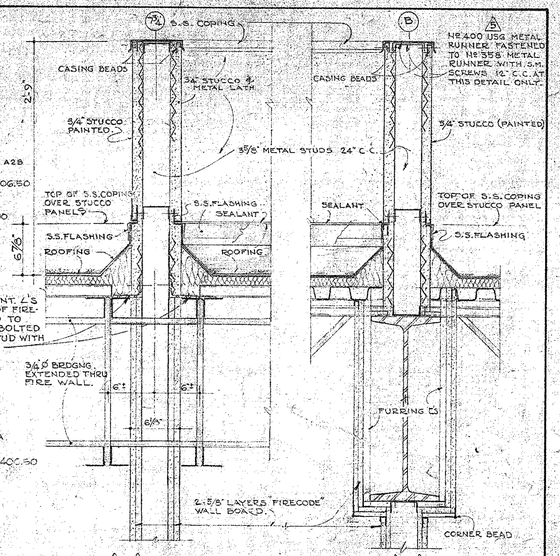
SCALE: 1/16" = 1'-0"

NOTE: SEE PART ELEVATION (TYPICAL) ON DWG. NO. A-7



SOUTH ELEVATION

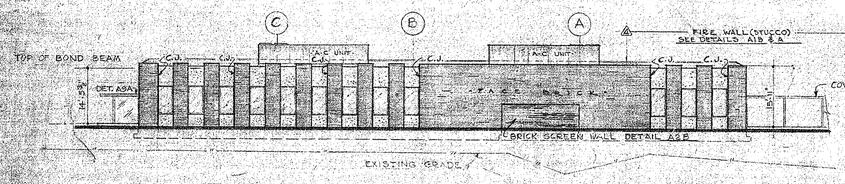
SCALE: 1/16" = 1'-0"



FIRE WALL DETAILS

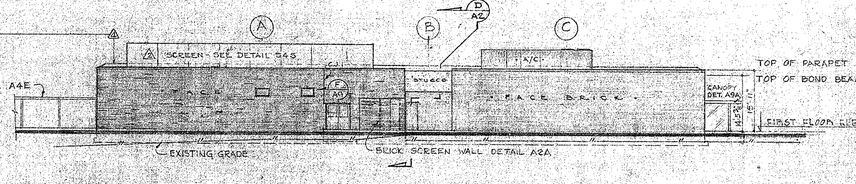
SECTION A2E/A1-A2 SECTION A2F/A1-A2

SCALE 1 1/2" = 1'-0"



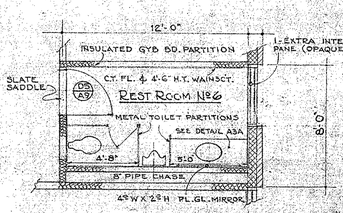
WEST ELEVATION

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



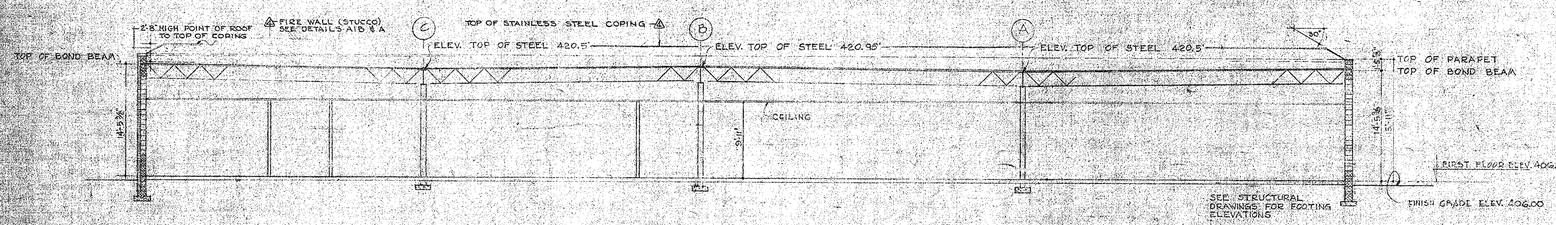
EAST ELEVATION

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



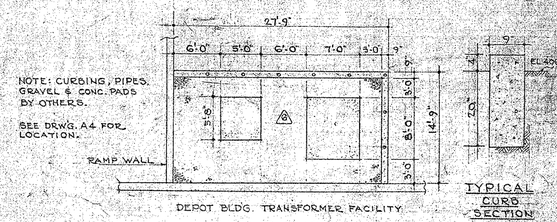
TOILET ROOM No. 5

SCALE 1/4" = 1'-0"



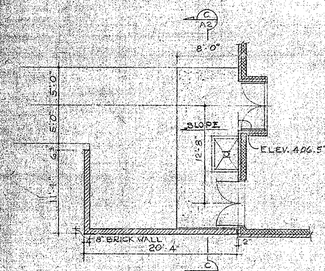
SECTION A2A/A1

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



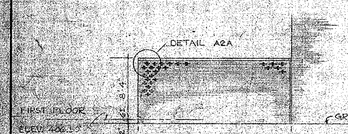
PLAN

SCALE 1/8" = 1'-0"



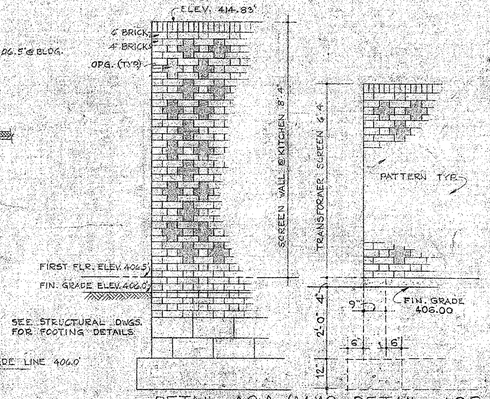
PLAN

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



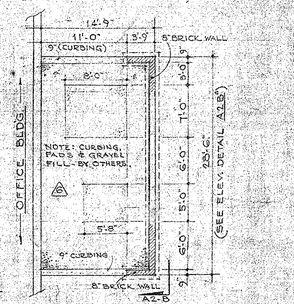
ELEVATION

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



DETAIL A2A/A1 A2 DETAIL A2B/A1 A2

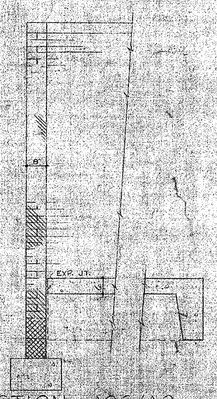
SCALE: 1/2" = 1'-0" SCALE: 1/2" = 1'-0"



OFFICE BLDG. TRANSFORMER FACILITY, SEE A1

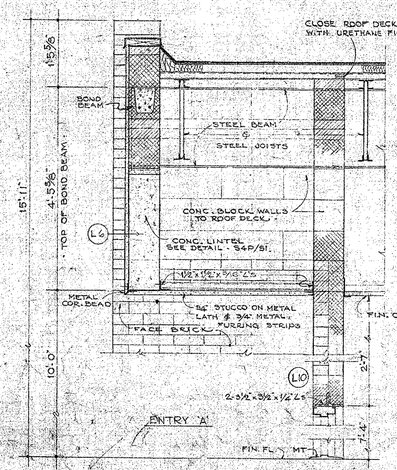
PLAN

SCALE 1/8" = 1'-0"



SECTION A2C/A2

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



SECTION A2D/A2

SCALE 3/4" = 1'-0"

BRICK SCREEN WALL DETAILS

	7-1-70	AS BUILT DRAWING
5	5-27-69	OFFICE & DEPOT TRANSFORMER FACILITIES.
4	4-23-69	FIRE WALL DETAILS A2E & A2F MODIFIED.
3	4-15-69	FIRE WALL & DETAILS ; R.R. #85 ;
	2-28-69	
2	2-21-69	ROOF SCREEN
1	1-15-69	

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

ARCHITECTURAL-OFFICE BUILDING

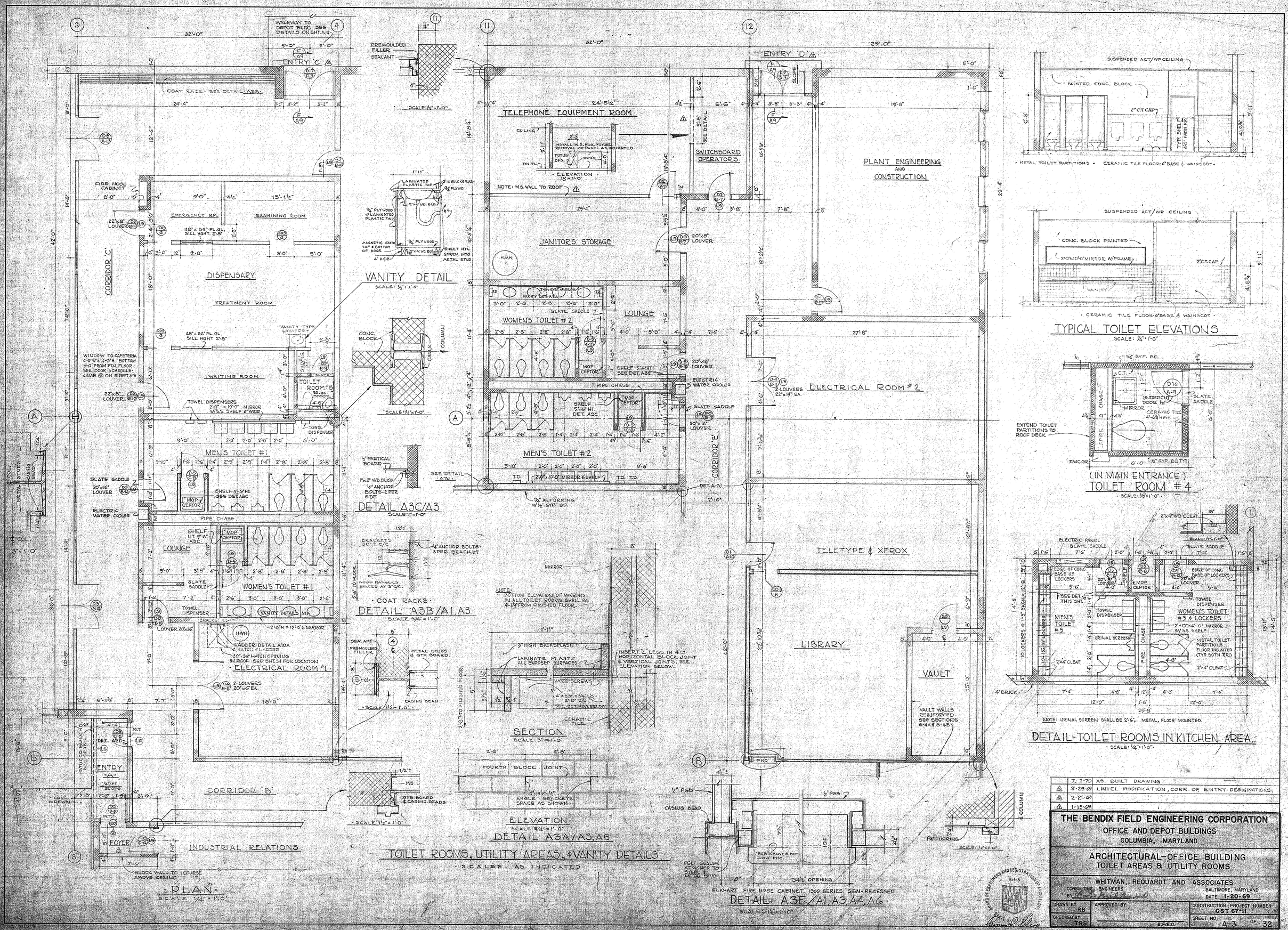
ELEVATIONS & CROSS SECTIONS

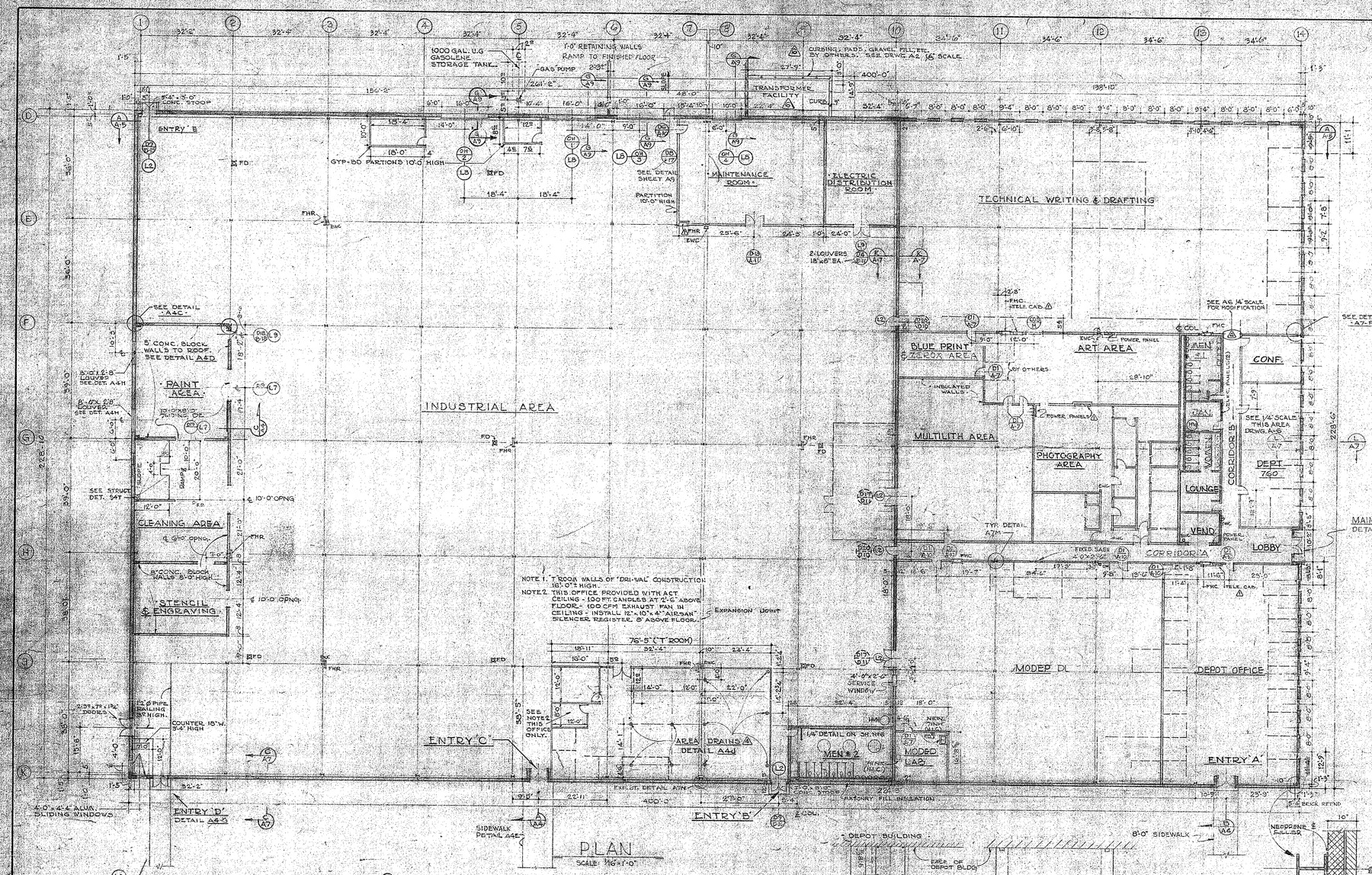
WHITMAN, REQUARDT AND ASSOCIATES

CONSULTING ENGINEERS — BALTIMORE, MARYLAND

BY — DATE: 1-20-69

DRAWN BY: W.L.	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY: T.R.S.	B.F.E.O.	SHEET NO. A-2 OF 32


PLAN
SCALE 1/4" = 1'-0"
ENTRY 'C'
COAT RACK - SEE DETAIL A3B
WALKWAY TO DEPOT BLDG. SEE DETAILS ON SHT. A4
CORRIDOR 'C'
FIRE HOSE CABINET
EMERGENCY RM.
EXAMINING ROOM
DISPENSARY
TREATMENT ROOM
WAITING ROOM
TOILET ROOM #5
MEN'S TOILET #1
WOMEN'S TOILET #1
LOUNGE
PIPE CHASE
ELECTRICAL ROOM #1
CORRIDOR 'B'
ENTRY 'A'
FOYER
INDUSTRIAL RELATIONS
TELEPHONE EQUIPMENT ROOM
ELEVATION
JANITOR'S STORAGE
WOMEN'S TOILET #2
MEN'S TOILET #2
SECTION
ELEVATION
DETAIL A3A/A3, A6
TOILET ROOMS, UTILITY AREAS, & VANITY DETAILS
SCALES AS INDICATED
ENTRY 'D'
SWITCHBOARD OPERATORS
PLANT ENGINEERING AND CONSTRUCTION
CORRIDOR 'E'
ELECTRICAL ROOM #2
TELETYPE & XEROX
LIBRARY
VAULT
DETAIL A3E/A1, A3, A4, A6
TYPICAL TOILET ELEVATIONS
SCALE: 1/4" = 1'-0"
TOILET ROOM #4
(IN MAIN ENTRANCE)
DETAIL-TOILET ROOMS IN KITCHEN AREA
NOTE: URINAL SCREEN SHALL BE 2'-6", METAL, FLOOR MOUNTED.
7-1-70 AS BUILT DRAWING
2-28-69 LINTEL MODIFICATION, CORR. OF ENTRY DESIGNATIONS
2-21-69
1-15-69
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND
ARCHITECTURAL-OFFICE BUILDING
TOILET AREAS & UTILITY ROOMS
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS
BALTIMORE, MARYLAND
DATE: 1-20-69
DRAWN BY: RB
CHECKED BY: TAS
APPROVED BY:
S.F.E.O.
CONSTRUCTION PROJECT NUMBER CST 67-11
SHEET NO. A-3 OF 32



FINISH SCHEDULE

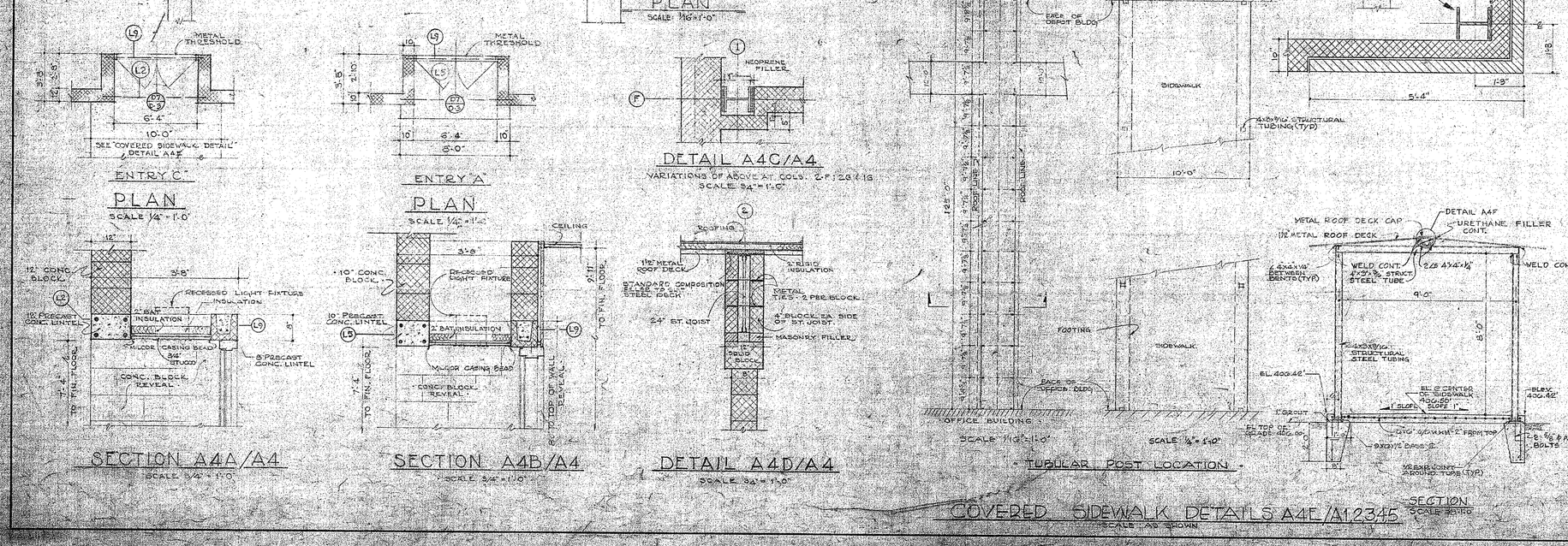
ROOM	AREA	FLOOR	BASE	WALL	CEILING	REMARKS
DEPOT OFFICE		VAT	VCB	PGB	ACT	
LOBBY		VAT	VCB	PGB	ACT	
CONFERENCE		VAT	VCB	P.G.P.	ACT	
DEPARTMENT 760		VAT	VCB	P.G.B	ACT	
CORRIDOR 'B'		VAT	VCB	PGB/CPP	ACT	
VENDING		VAT	VCB	C.P.P	ACT	
LOUNGE		VAT	VCB	C.P.P	ACT	
WOMEN		CT	CT	CT/CBEP	ACT-WP	4'-6" HT. - CT WAINSCOT
JANITOR - H.W.H.		HC	—	CBP	ES	
MEN NO. 1		CT	CT	CT/CBEP	ACT-WP	4'-6" HT. - CT WAINSCOT
TECH. WRITING & DRAFT.		VAT	VCB	PGB	ACT	
ART & PHOTO		VAT	VCB	PGB	ACT	
MULTILITH		VAT	VCB	PGB	ACT	
MEN NO. 2		CT	CT	CT/CBEP	ACT-WP	4'-6" HT. - CT WAINSCOT
ELECT. DIST. ROOM		HC	—	CPP	ES	
CORRIDOR 'A'		VAT	VCB	PGB	ACT	
MODEP		VAT	VCB	PGB	ACT	
DEPOT		HC	—	CBP	ES	
MODEP LAB		VAT	VCB	PGB	ACT	
BLUE PRINT & XEROX		VAT	VCB	PGB	ACT	
TOTAL SQ. FT.	90,292					

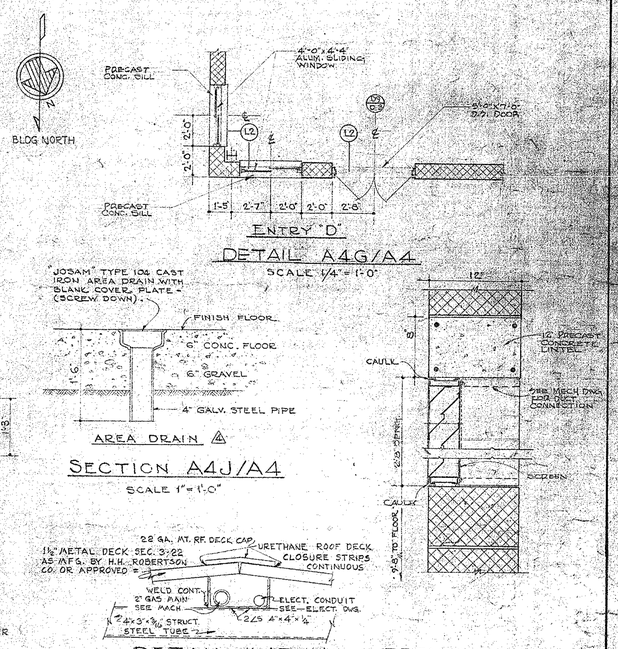
LIST OF ABBREVIATIONS

ACT	ACCOUSTIC CEILING TILE	HC	HARDENED CONCRETE
ACT-WP	ACCOUSTIC CEILING TILE - WATERPROOF	CBP	CONCRETE BLOCK PAINTED
CONC.	CONCRETE	PGB	PAINTED GYPSUM BOARD
CT	CERAMIC TILE	VAT	VINYL ASBESTOS TILE
ES	EXPOSED STRUCTURE	VCB	VINYL COVE BASE
MT	METAL THRESHOLD	WD. PAN.	WOOD PANELING
FHC	FIRE HOSE CABINET	C.B.E.P.	CONCRETE BLOCK EPOXY PAINTED
EWC	ELEC. WATER COOLER	C.J.	CONTROL JOINT
FD	FLOOR DRAIN		

LEGEND

- MASONRY WALL TO UNDERSIDE OF ROOF DECK
- MASONRY WALL - ONE COURSE ABOVE CEILING
- GYPSUM BOARD PARTITION TO UNDERSIDE OF CEILING
- DARK TYPE PARTITIONS N.I.C.
- INSULATED PARTITIONS





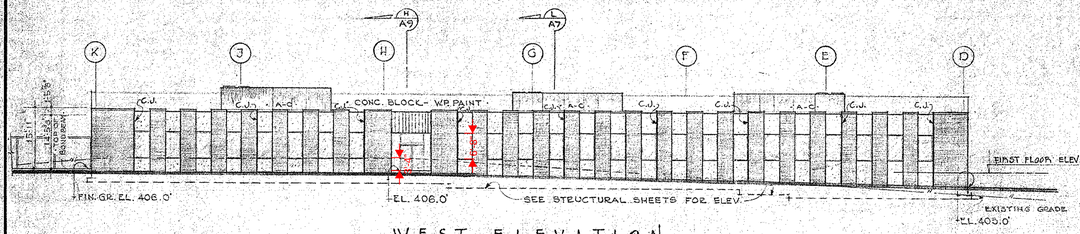
	7-1-70	AS BUILT DRAWING
4	5-27-69	OFFICE & DEPOT TRANSFORMER FACILITIES.
3	4-15-69	AREA DRAINS & DOOR CHANGES.
2	2-28-69	LINTEL MODIFICATIONS.
1	1-7-69	
A	1-15-69	AS NOTED ON DRAWING

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

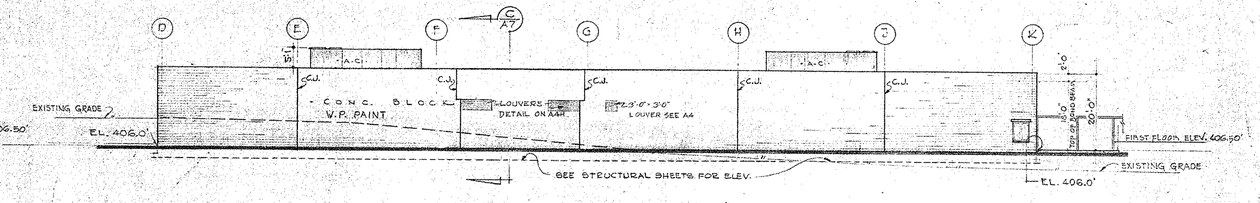
ARCHITECTURAL - DEPOT BUILDING
PLANS & SCHEDULES

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: — DATE: 1-20-69

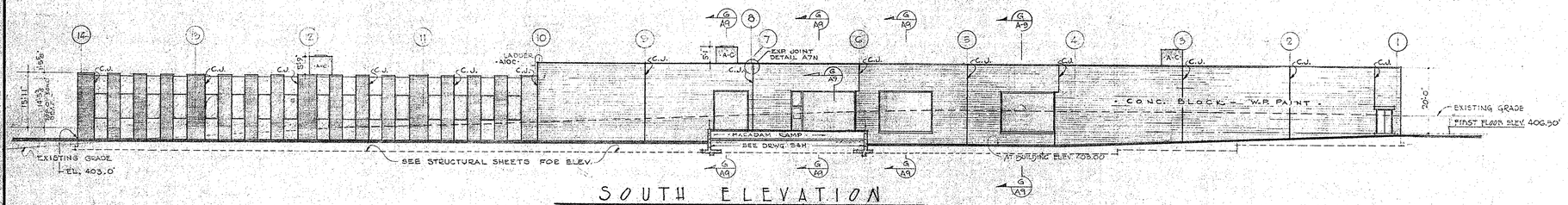
DRAWN BY: JBS | APPROVED BY: | CONSTRUCTION PROJECT NUMBER: CST 67-11
CHECKED BY: TRS | B.F.E.C. | SHEET NO. A-4 OF 32



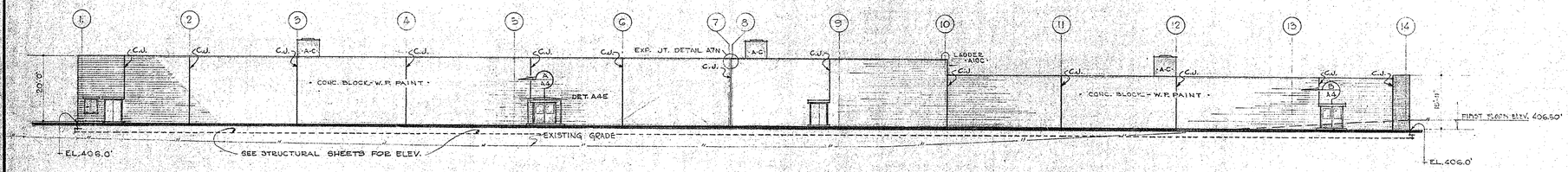
WEST ELEVATION
SCALE: 1/16" = 1'-0"



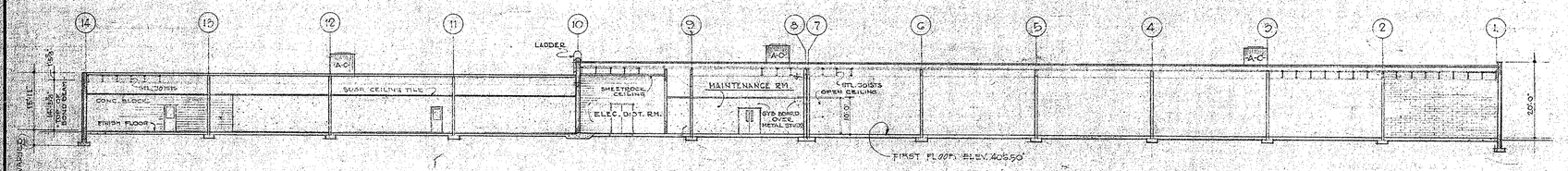
EAST ELEVATION
SCALE: 1/16" = 1'-0"



SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



NORTH ELEVATION
SCALE: 1/16" = 1'-0"



LONGITUDINAL SECTION A5-A/A4
SCALE: 1/16" = 1'-0"

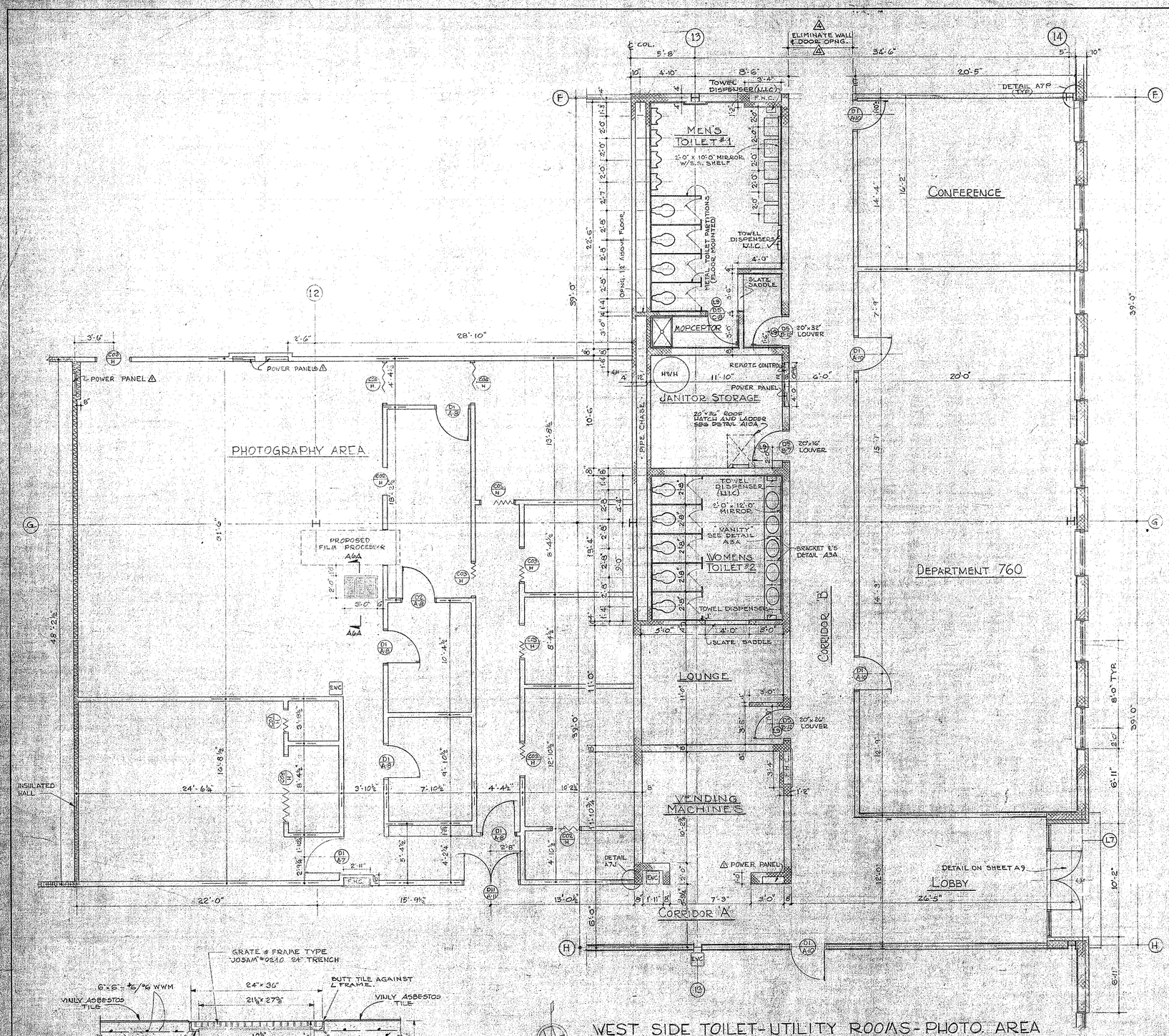
	7-1-70	AS BUILT DRAWING
3	2-28-69	
2	2-21-69	
1	1-15-69	

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ARCHITECTURAL-DEPOT BUILDING
ELEVATIONS & CROSS SECTIONS

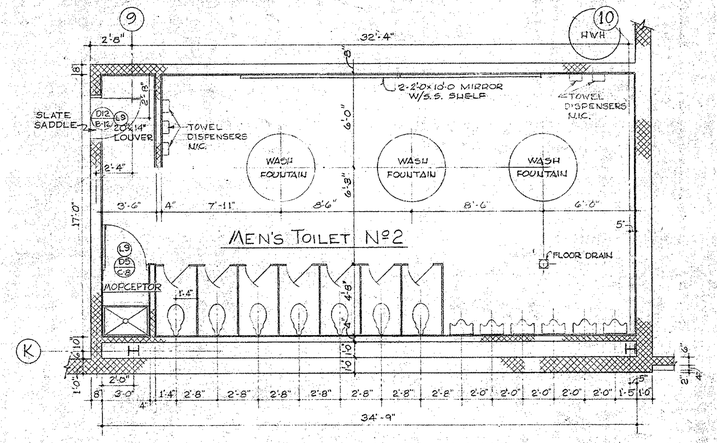
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS BY [signature]
BALTIMORE, MARYLAND
DATE: 1-20-69

DRAWN BY DC	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY TRS	B.F.E.C.	SHEET NO. A-5 OF 32



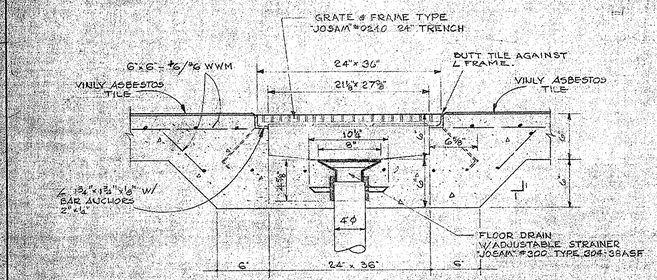
WEST SIDE TOILET-UTILITY ROOMS-PHOTO. AREA

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



DETAIL-MEN'S TOILET Nº2

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



SPLASH DRAIN DETAIL A6A

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

CONSTRUCTION NORTH

NOTE:

ALL EXTERIOR WALLS OF TOILET AREAS SHALL EXTEND TO UNDERSIDE OF ROOF DECK AND COMPLETELY SEALED BETWEEN TOP OF WALL AND DECK USING STANDARD COMPOSITION DECK FILLERS TO SUIT DECKING. WALLS BETWEEN JANITOR'S STORAGE AND WOMEN'S TOILET; BETWEEN LOUNGE AND VENDING SHALL BE EXTENDED TO UNDERSIDE OF DECKING ALSO.

	7-1-70	AS BUILT DRAWING
4	4-15-69	CORRIDOR 'B' MODIFICATION - SEE NOTE THIS SHEET
3	2-28-69	LINTEL MODIFICATION
2	2-21-69	
1	1-15-69	

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

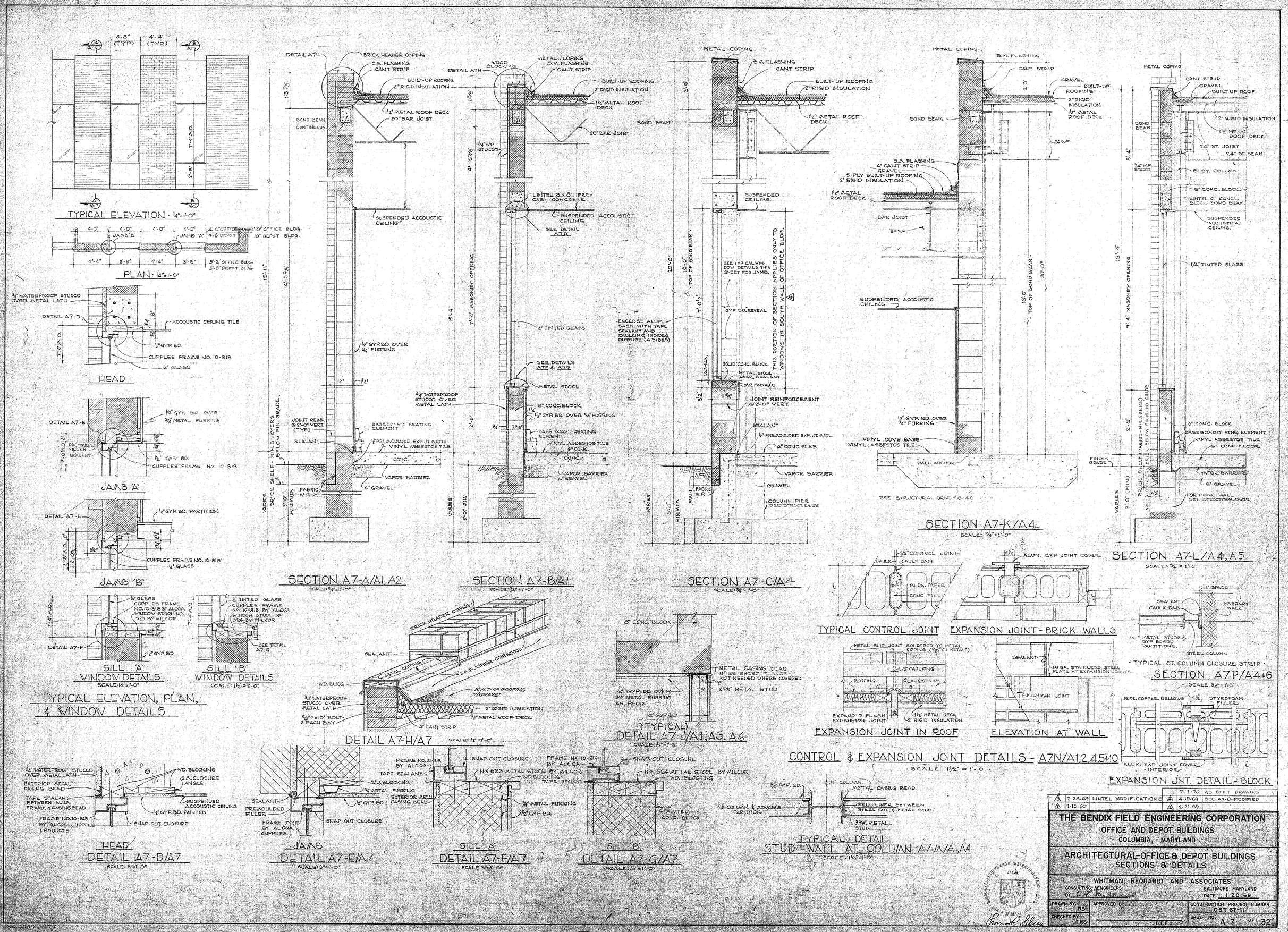
ARCHITECTURAL-DEPOT BUILDING

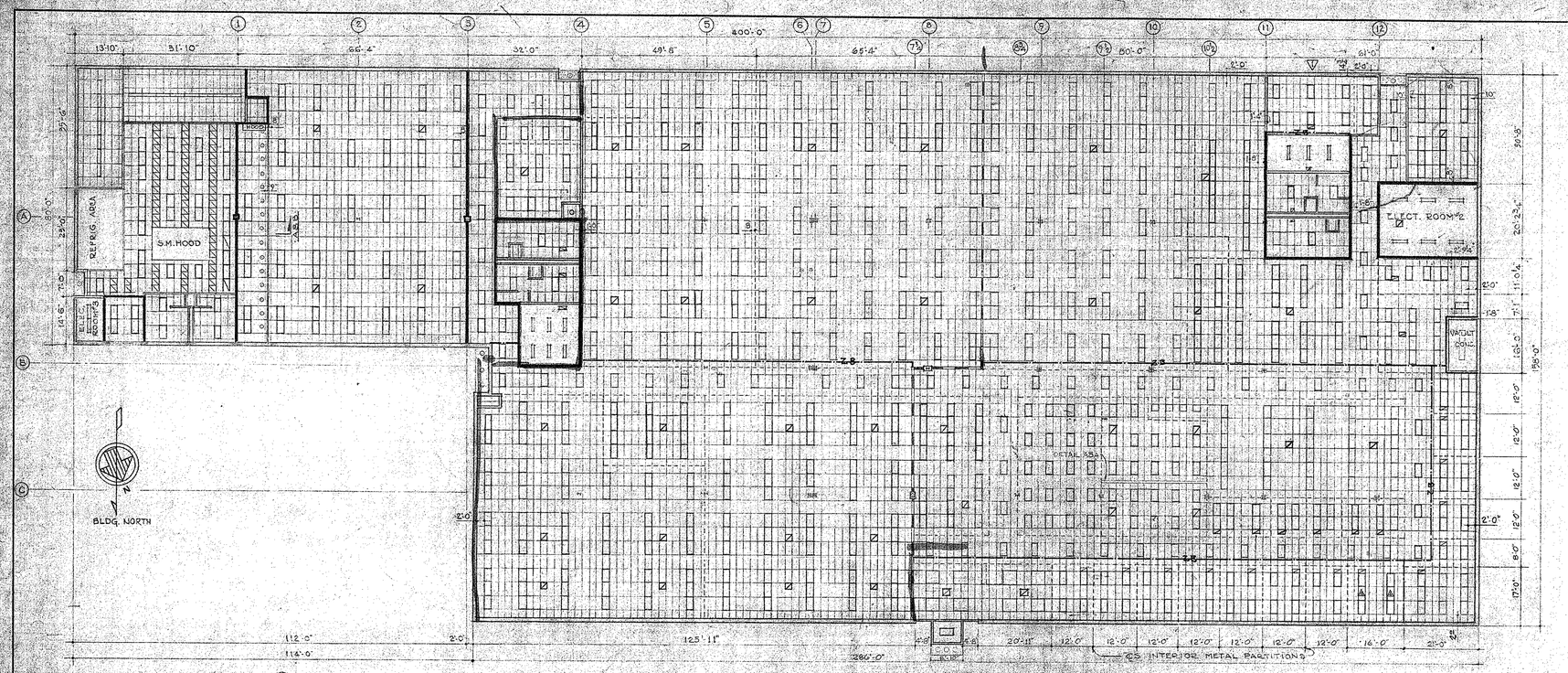
PLANS, TOILET & UTILITY ROOMS

WHITMAN, REQUARDT AND ASSOCIATES

CONSULTING ENGINEERS BY C. L. Hallard — BALTIMORE, MARYLAND DATE 1-20-69

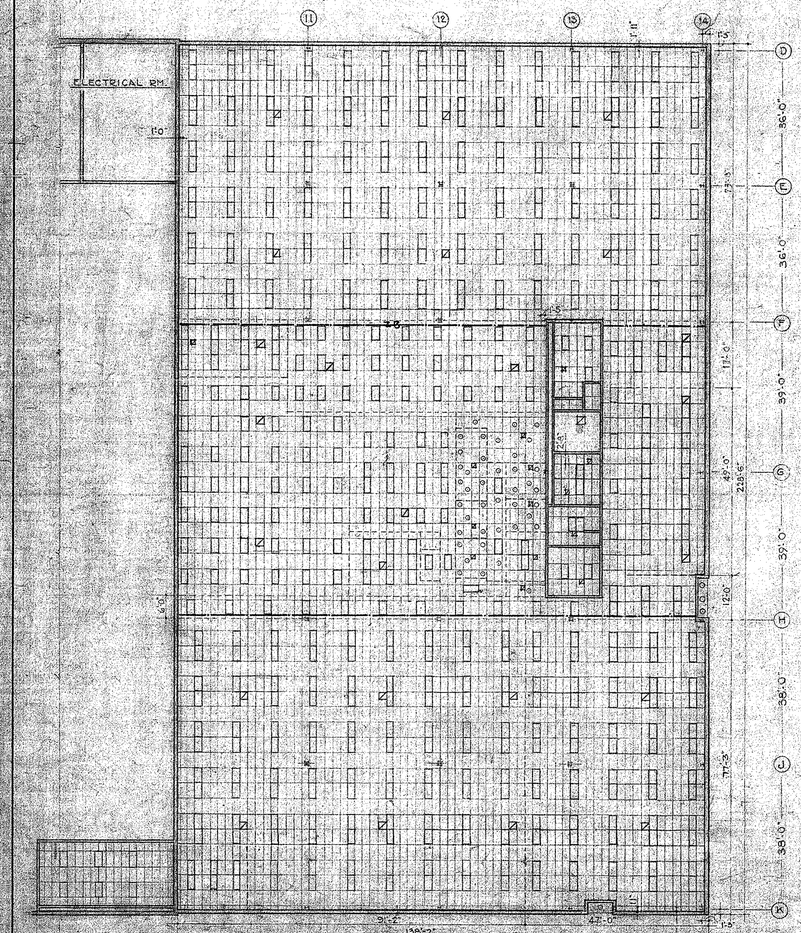
DRAWN BY WL	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY TRS	B.F.E.C.	SHEET NO. A-6 OF 32


TYPICAL ELEVATION · 1/4"=1'-0"
PLAN · 1/4"=1'-0"
HEAD
JAMB 'A'
JAMB 'B'
SILL 'A' WINDOW DETAILS
SILL 'B' WINDOW DETAILS
TYPICAL ELEVATION, PLAN, & WINDOW DETAILS
SECTION A7-A/A1,A2
SECTION A7-B/A1
SECTION A7-C/A4
SECTION A7-K/A4
SECTION A7-L/A4,A5
TYPICAL CONTROL JOINT
EXPANSION JOINT - BRICK WALLS
EXPANSION JOINT IN ROOF
ELEVATION AT WALL
CONTROL & EXPANSION JOINT DETAILS - A7N/A1,2,4,5&10
SECTION A7P/A4&6
EXPANSION JNT. DETAIL - BLOCK
DETAIL A7-H/A7
(TYPICAL) DETAIL A7-J/A1,A3,A6
HEAD DETAIL A7-D/A7
JAMB DETAIL A7-E/A7
SILL 'A' DETAIL A7-F/A7
SILL 'B' DETAIL A7-G/A7
TYPICAL DETAIL STUD WALL AT COLUMN A7-M/A1,A4
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND
ARCHITECTURAL-OFFICE & DEPOT BUILDINGS
SECTIONS & DETAILS
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS
BALTIMORE, MARYLAND
DATE: 1-20-69
DRAWN BY RS
CHECKED BY TRS
APPROVED BY
CONSTRUCTION PROJECT NUMBER CST 67-11
SHEET NO. A-7 OF 32



• CEILING PLAN — OFFICE BLDG. •

SCALE 1/16" = 1'-0"



• CEILING PLAN — DEPOT BLDG. •

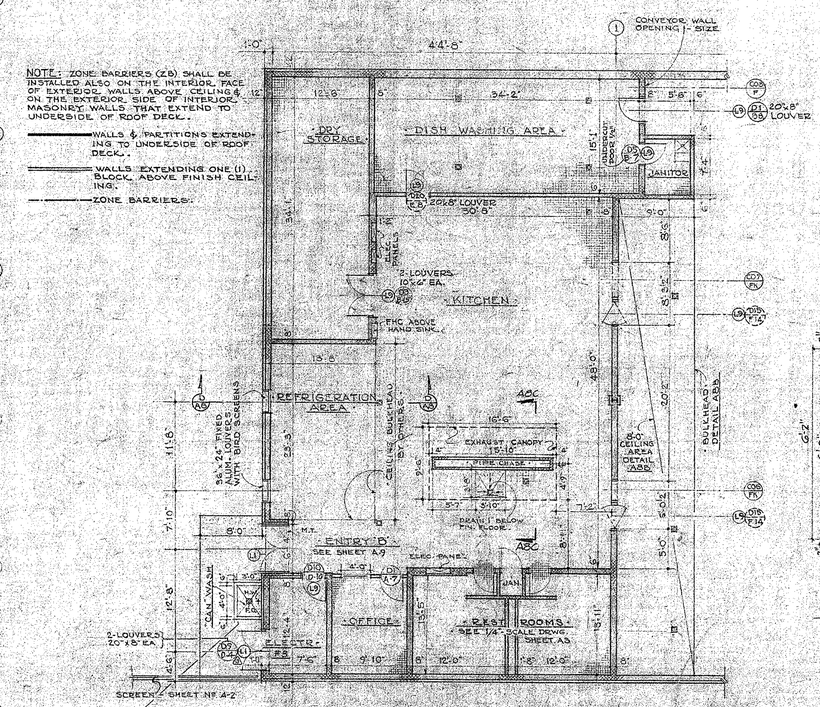
SCALE 1/16" = 1'-0"

NOTE: ZONE BARRIERS (ZB) SHALL BE INSTALLED ALSO ON THE INTERIOR FACE OF EXTERIOR WALLS ABOVE CEILING & ON THE EXTERIOR SIDE OF INTERIOR MASONRY WALLS THAT EXTEND TO UNDERSIDE OF ROOF DECK.

WALLS & PARTITIONS EXTENDING TO UNDERSIDE OF ROOF DECK.

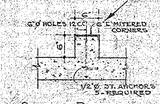
WALLS EXTENDING ONE (1) BLOCK ABOVE FINISH CEILING.

ZONE BARRIERS.



• KITCHEN AREA - OFFICE BLDG. •

SCALE 1/8" = 1'-0"



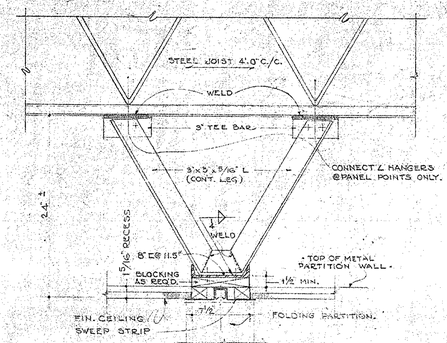
CURB DETAIL

SCALE 3/4" = 1'-0"

△ MODIFIED LAYOUT OF EXECUTIVES OFFICES △

FIRE WALL ——— & ZONE BARRIER MODIFICATION.

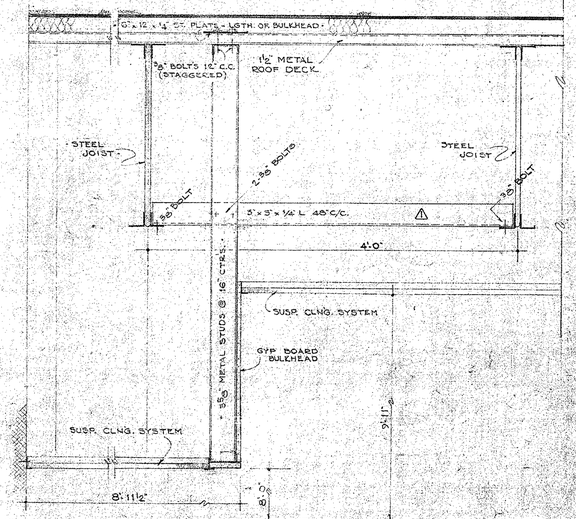
(1) DOOR MODIFICATIONS △



SECTION A8A/A8

• OFFICE BUILDING CONFERENCE ROOM •

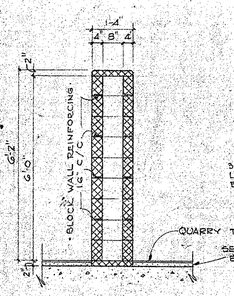
SCALE 1½" = 1'-0"



SECTION A8-B/A8

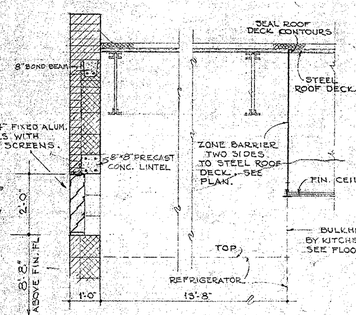
• CAFETERIA BULKHEAD •

SCALE 1½" = 1'-0"



SECTION A8C/A8

SCALE 1"=1'0



• SECTION A8D/A8 •

SCALE 1/2" = 1'-0"

	7-1-70	AS BUILT DRAWING
△	4-15-69	FIRE WALL (NEW); ZONE BARRIER MODIFICATION.
△	4-15-69	EXECUTIVE OFFICES (CEILINGS); DOOR MODIFICATIONS IN KIT.
△	2-28-69	LINTEL MODIFICATION
△	2-21-69	ZONE BARRIER LAYOUT & CAN WASH
△	1-15-69	

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

ARCHITECTURAL-OFFICE & DEPOT BUILDINGS

CEILING PLANS

WHITMAN, REQUARDT AND ASSOCIATES

CONSULTING ENGINEERS — BALTIMORE, MARYLAND

BY — DATE: 1-20-69

DRAWN BY: PH

CHECKED BY: TRS

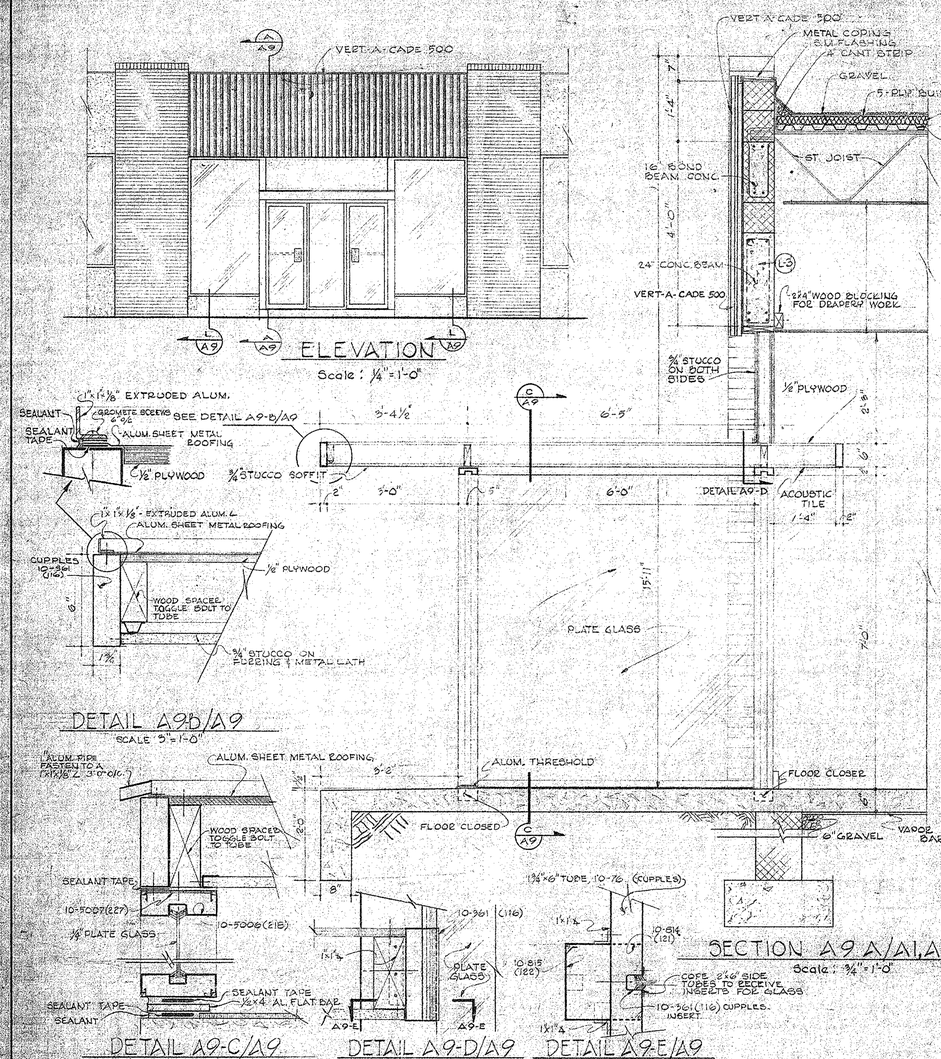
APPROVED BY:

S.F.E.C.

CONSTRUCTION PROJECT NUMBER: CST-67-11

SHEET NO. A-8 OF 32

BOARD OF EXAMINERS AND REGISTRATION OF ARCHITECTS — 854-A — STATE OF MARYLAND

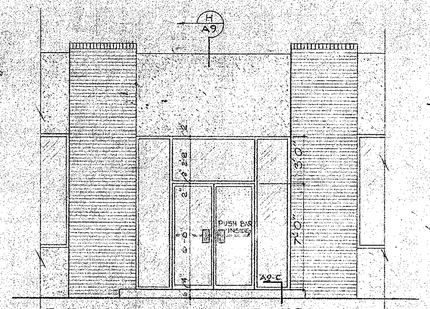


ELEVATION

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

DETAIL A9D/A9

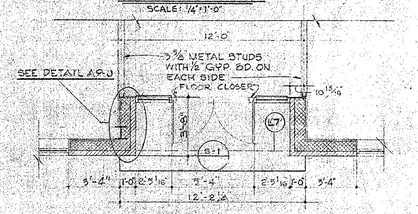
SCALE 3" = 1'-0"



ELEVATION OF MAIN ENTRANCE

DEPOT BLDG.

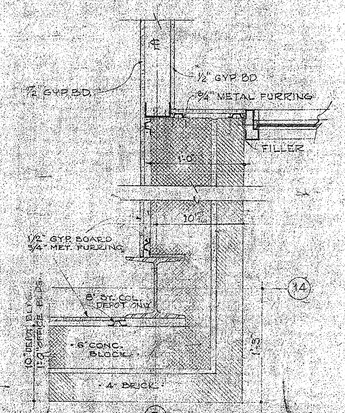
SCALE: 1/4" = 1'-0"



PLAN OF MAIN ENTRANCE

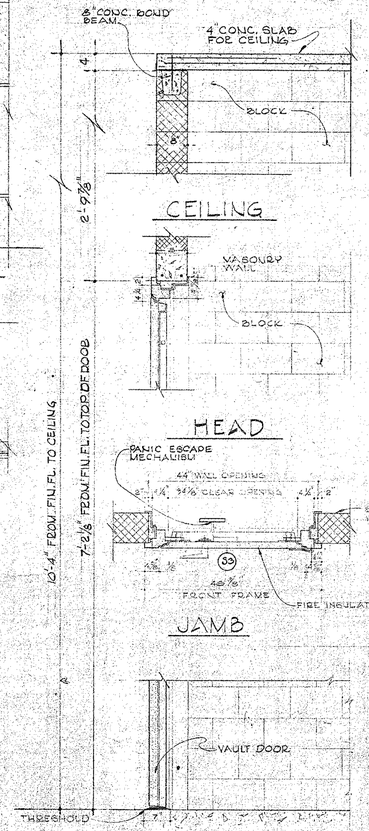
DEPOT BLDG.

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



SECTION A9-J/A9

SCALE 1/2" = 1'-0"



OFFICE BUILDING

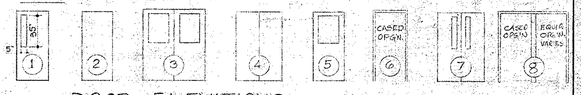
VAULT DOOR AND CEILING DETAILS

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

DOOR SCHEDULE FOR OFFICE AND DEPOT

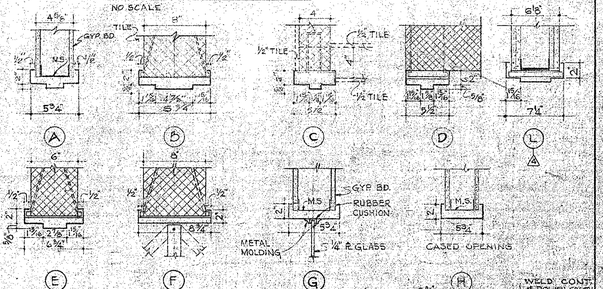
U/#	SIZE	TYPE	MATERIAL	JAMB	LOUVER	LABEL	LINTEL	REMARKS
D1	3'-0"x 6'-8"x1 3/8"	1	H.C.W.	ABDEF	AS IND.		AS IND.	5"W x 2'-11"H GLASS
D2	3'-0"x 6'-8"x1 3/8"	2	H.C.W.	A,B	AS IND.			
D3	2'-8"x 7'-0"x1 3/8"	3	H.C.W.	A	AS IND.			1'-7"W x 2'-10"H GLASS
D4	2'-8"x 7'-8"x1 3/8"	4	H.M.	B	AS IND.			ELECTRICAL ROOMS
D5	2'-8"x 6'-8"x1 3/8"	2	S.C.W.	ABCJ	AS IND.			
D6	3'-0"x 7'-0"x1 3/8"	2	H.M.	D				
D7	2'-3"x 7'-6"x1 3/8"	3	H.M.	CD				WIRE GLASS 1'-7"W x 2'-10"H
D8	3'-0"x 7'-6"x1 3/8"	5	H.M.	D				
D9	2'-6"x 7'-6"x1 3/8"	4	H.M.	D				
D10	3'-0"x 6'-8"x1 3/8"	5	H.M.	D	AS IND.			WIRE GLASS 1'-7"W x 2'-10"H
D11	2'-6"x 6'-8"x1 3/8"	7	S.C.W.	A				5"W x 2'-11"H GLASS
D12	3'-8"x 6'-8"x1 3/8"	2	H.M.	B	AS IND.			
D13	2'-8"x 6'-8"x1 3/8"	4	H.M.	A				
D14	2'-3"x 6'-8"x1 3/8"	4	H.M.	D				
D15	3'-0"x 7'-6"x1 3/8"	1(8)	S.C.W.	F,K				WIRE GLASS △
D16	2'-0"x 6'-8"x1 3/8"	2	S.C.W.	A	AS IND.			
D17	2'-3"x 6'-8"x1 3/8"	7	S.C.W.	AL		B *		WIRE GL. * WHERE SHOWN ON DRW. A1 △
D18	3'-0"x 6'-8"x1 3/8"	2	*	B		A	L7	* METAL FIRE DOOR
D19	10'-0"x 8'-0"x 2"	2	*	B,E		A	L7	* METAL SLIDING FIRE DOOR
D20	3'-0"x 6'-8"x1 3/8"	1	SCW	AL		B *		WIRE GL. * WHERE SHOWN ON DRW. A1 △
S1.243								SEE DETAIL ON THIS SHEET
OH1	12'-0"x 12'-0"	ROLLUP	*				L-8	
OH2	12'-0"x 12'-0"	"	"				L-8	
OH3	12'-0"x 12'-0"	"	"				L-8	
OH4	12'-0"x 12'-0"	"	"				L-8	
CO1	2'-0" x 6'-8"			H				
CO2	2'-6" x 6'-8"			H				
CO3	3'-0" x 6'-8"			H				
CO4	3'-8" x 6'-8"			H				
CO5	6'-2" x 6'-8"			H				
CO6	6'-1" x 7'-1"			F,K				
CO7	8'-4" x 7'-1"			F,K				
CO8	2'-0" x 1'-9 1/2"			F				

AS IND. - AS INDICATED ON PLAN



DOOR ELEVATIONS

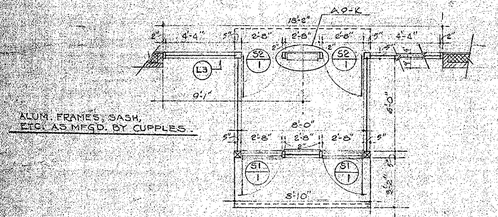
NO SCALE



DOOR JAMBS

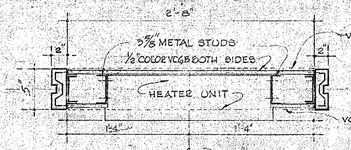
FOR OFFICE & DEPOT BLDG.

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



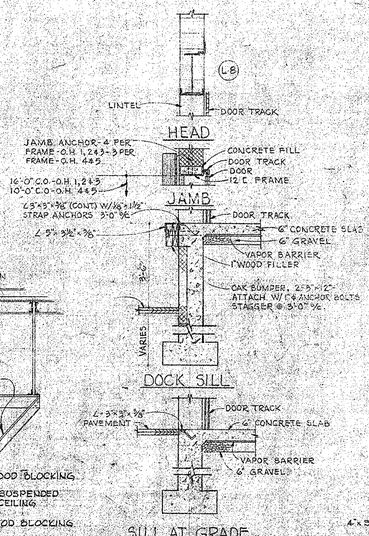
PLAN - MAIN ENTRANCE - OFFICE BLDG.

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



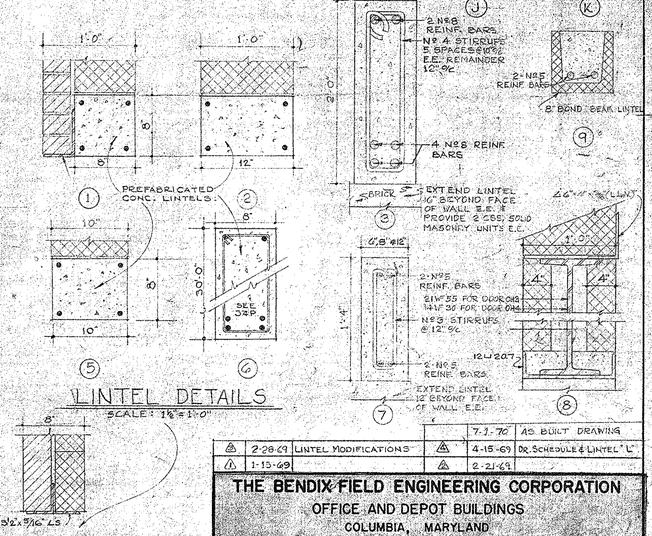
DETAIL A9-K/A9

SCALE 1 1/2" = 1'-0"



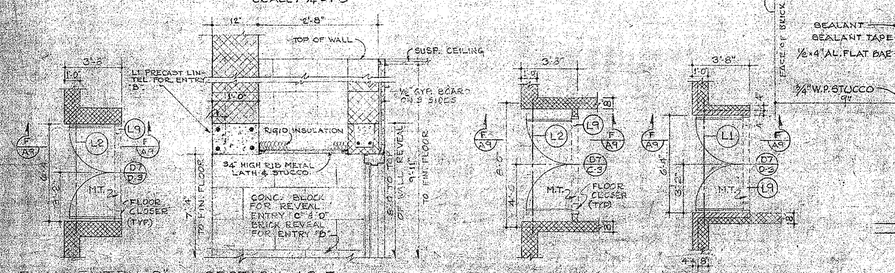
SECTION A9-G/A4,A5

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



LINTEL DETAILS

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



PLAN ENTRY "C"

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

SECTION A9-F

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

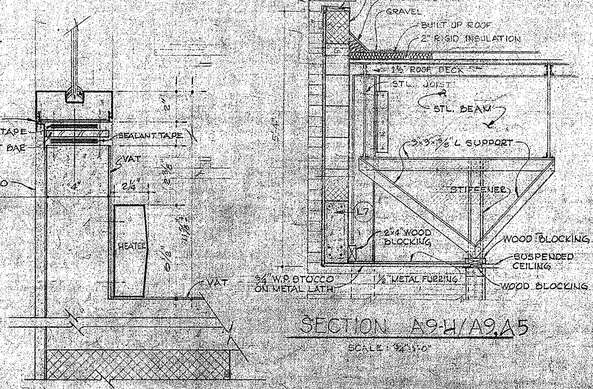
PLAN ENTRY "D"

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

PLAN ENTRY "B"

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

OFFICE BUILDING ENTRANCES



SECTION A9-H/A9,A5

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

DETAIL A9-L/A9

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

△	2-28-69	LINTEL MODIFICATIONS	△	4-15-69	DR. SCHEDULE & LINTEL "L"
△	1-13-69		△	2-21-69	
				7-1-70	AS BUILT DRAWING

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

ARCHITECTURAL - OFFICE & DEPOT BUILDINGS

ENTRANCE DETAILS & DOOR SCHEDULE

WHITMAN, REQUARDT AND ASSOCIATES

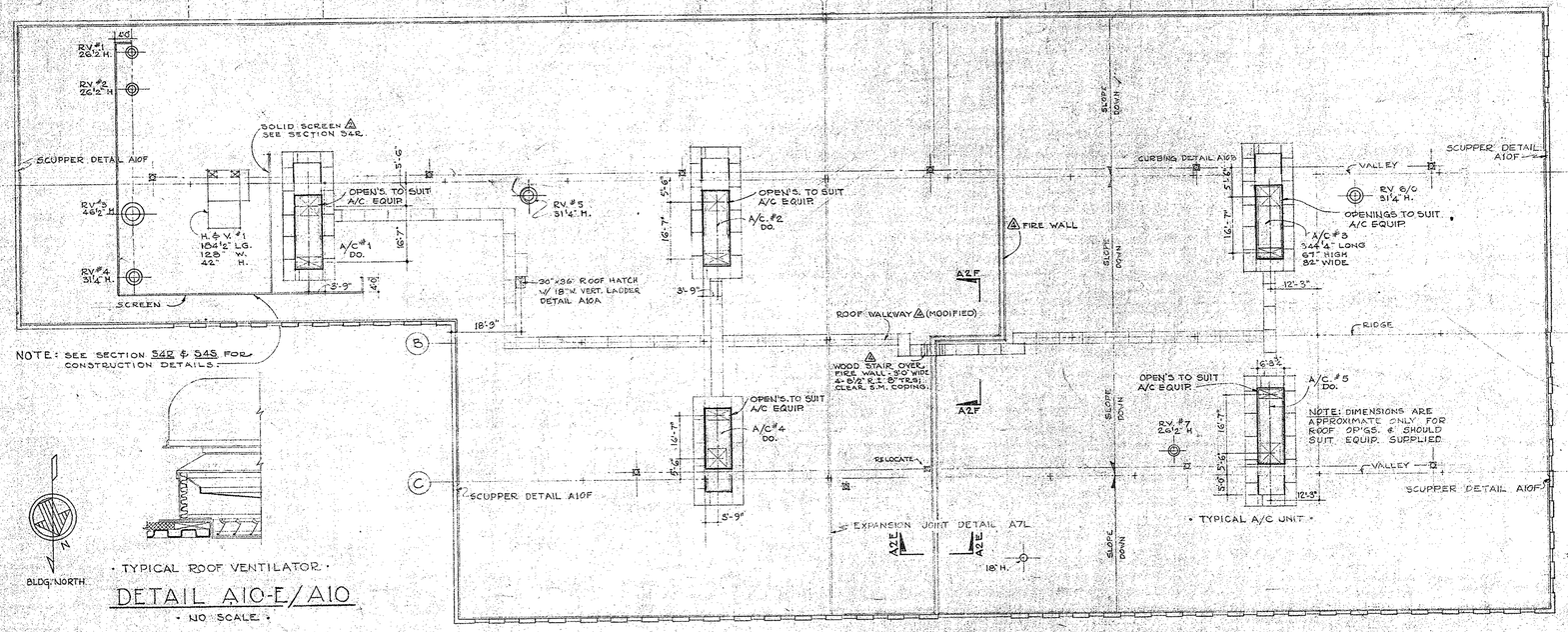
CONSULTING ENGINEERS — BALTIMORE, MARYLAND

BY: [illegible] — DATE: 1-20-69

DRAWN BY: DC — CHECKED BY: TRS — APPROVED BY: — B.F.E.C.

CONSTRUCTION PROJECT NUMBER: CST 67-11

SHEET NO. A-9 OF 32



NOTE: SEE SECTION S4E & S4S FOR CONSTRUCTION DETAILS.

· TYPICAL ROOF VENTILATOR ·

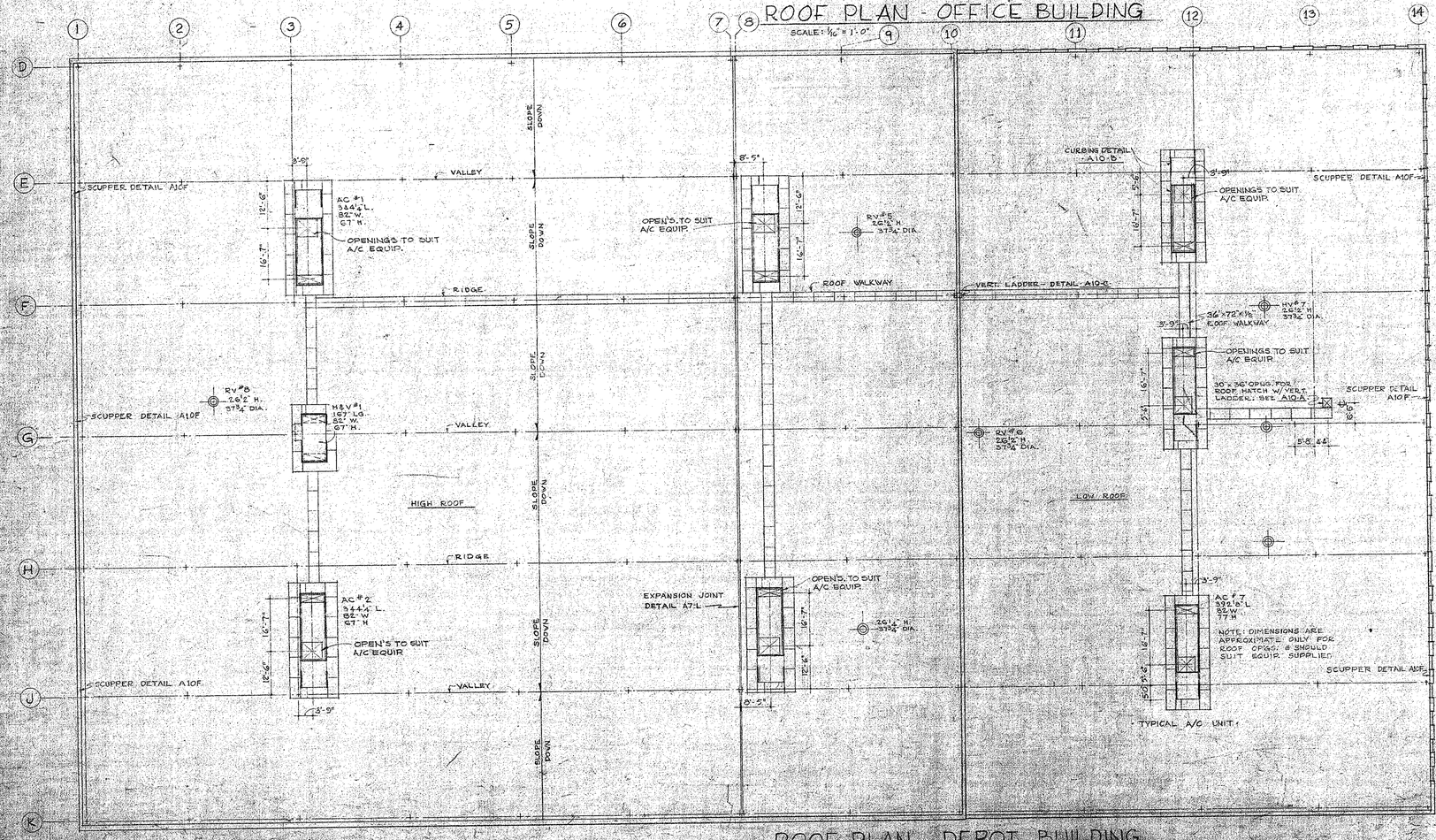
DETAIL A10-E/A10

· NO SCALE ·

· TYPICAL A/C UNIT ·

ROOF PLAN - OFFICE BUILDING

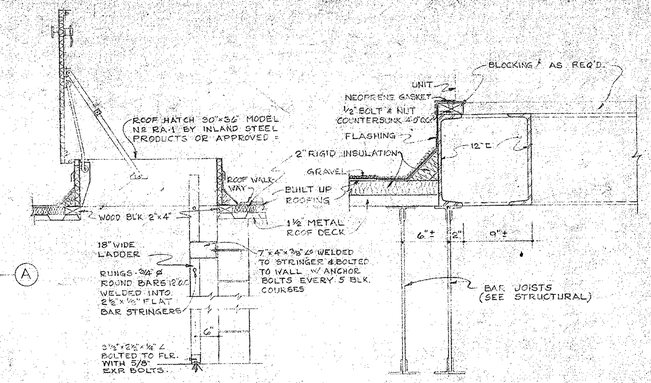
SCALE: 1/16" = 1'-0"



· TYPICAL A/C UNIT ·

ROOF PLAN - DEPOT BUILDING

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

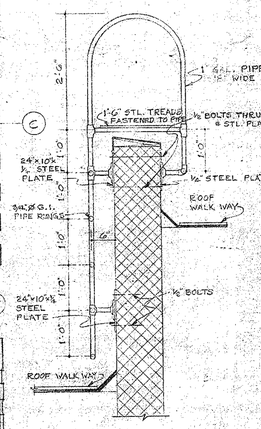


ROOF HATCH DETAIL A10A/A1A10

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

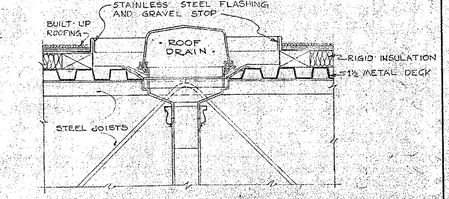
A/C CURB DETAIL A10B/A10

SCALE: 1½" = 1'-0"



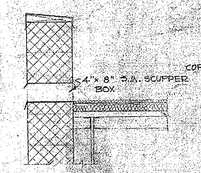
DETAIL A10C/A5,A10

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



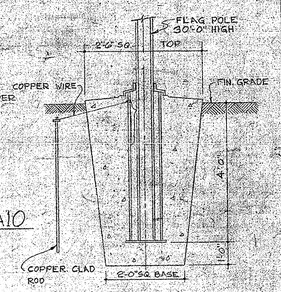
TYPICAL ROOF DRAIN DETAIL A10D

· SCALE: 1½" = 1'-0" ·



DETAIL A10F/A10

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



FLAG POLE DETAIL A10G/C2,C3

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

NOTE: REVISED IN FIELD TO ACCOMODATE ACME ROOFTOP A/C UNITS.

	7-1-70	AS BUILT DRAWING
4	4-15-69	FIRE WALL & ROOF WALKWAY ; WD. STAIR OVER WALL.
3	2-28-69	
2	2-21-69	ROOF SCREEN
1	1-15-69	

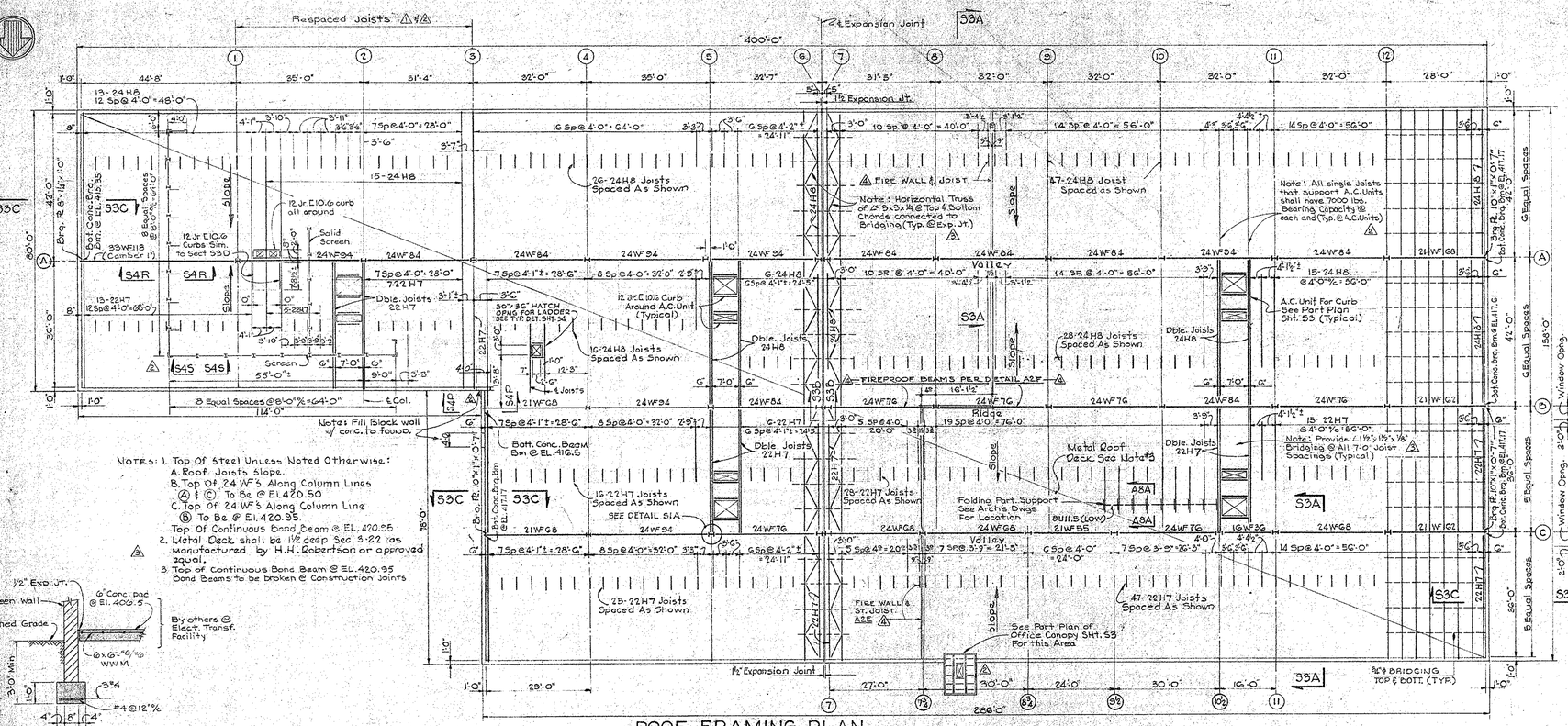
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ARCHITECTURAL-OFFICE & DEPOT BUILDINGS
ROOF PLANS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: C. S. Murphy — DATE: 1-20-69

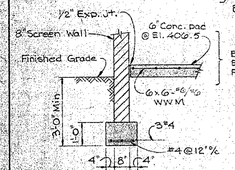
DRAWN BY: WIL
CHECKED BY: TRS
APPROVED BY:
B.F.E.C.
CONSTRUCTION PROJECT NUMBER: CST 67-11
SHEET NO. A-10 OF 32

BOARD OF EXAMINERS AND REGISTRATION OF ARCHITECTS — STATE OF MARYLAND — 854-A
Thomas R. Sikes



NOTES: 1. Top Of Steel Unless Noted Otherwise:
A. Roof Joists Slope.
B. Top Of 24 WF's Along Column Lines Ⓐ & Ⓒ To Be @ El. 420.50
C. Top Of 24 WF's Along Column Line Ⓑ To Be @ El. 420.95
Top Of Continuous Bond Beam @ EL. 420.95
2. Metal Deck shall be 1½ deep Sec. 3-22 as manufactured by H.H. Robertson or approved equal.
3. Top of Continuous Bond Beam @ EL. 420.95 Bond Beams to be broken @ Construction Joints

ROOF FRAMING PLAN
Scale: 1/16" = 1'-0"



SECTION S1C/S1 Ⓐ
Scale: 3/8" = 1'-0"

COLUMN & FOOTING SCHEDULE (OFFICE)					
COLUMN NUMBER	A6, A7, B6, B7, C6, C7	A3, B3, B10, B11, B12, C7½, C8½, C9½, C12	A4, A8, A9, A10, A11, A12, B4, C4	C10½, C11	A1, A2, A5, B5, C5
COLUMN SIZE	8WF31	8WF31	8WF31	8WF31	8WF31
BASE PLATE	9'-5/8"x0'-9"	11'-3/4"x0'-11"	12'-7/8"x1'-0"	9'-5/8"x0'-9"	12'-7/8"x1'-0"
PIER SIZE	12"x24"	16"x16"	16"x16"	16"x16"	16"x16"
VERT. REINF.	6-#7	4-#7	4-#7	4-#7	4-#7
TIES	#4@12"%(Dble.)	#4@12"%	#4@12"%	#4@12"%	#4@12"%
FOOTING SIZE	5'-0"x5'-0"x1'-8"	5'-0"x5'-0"x1'-8"	5'-0"x5'-0"x1'-8"	4'-0"x4'-0"x1'-0"	5'-6"x5'-6"x1'-8"
REINF.-E.W.	7-#6	7-#6	7-#6	5-#6	7-#7

Note: 1. Provide ½" Cap Pl. @ Top Of All Columns
2. Provide ½" Leveling Pl's Under All Column Base Pl's
3. Tops of All Column Piers To Be @ El. 406.17
4. Bottoms of All Column Footings To Be @ El. 404.33 Unless Noted Otherwise On Plan.

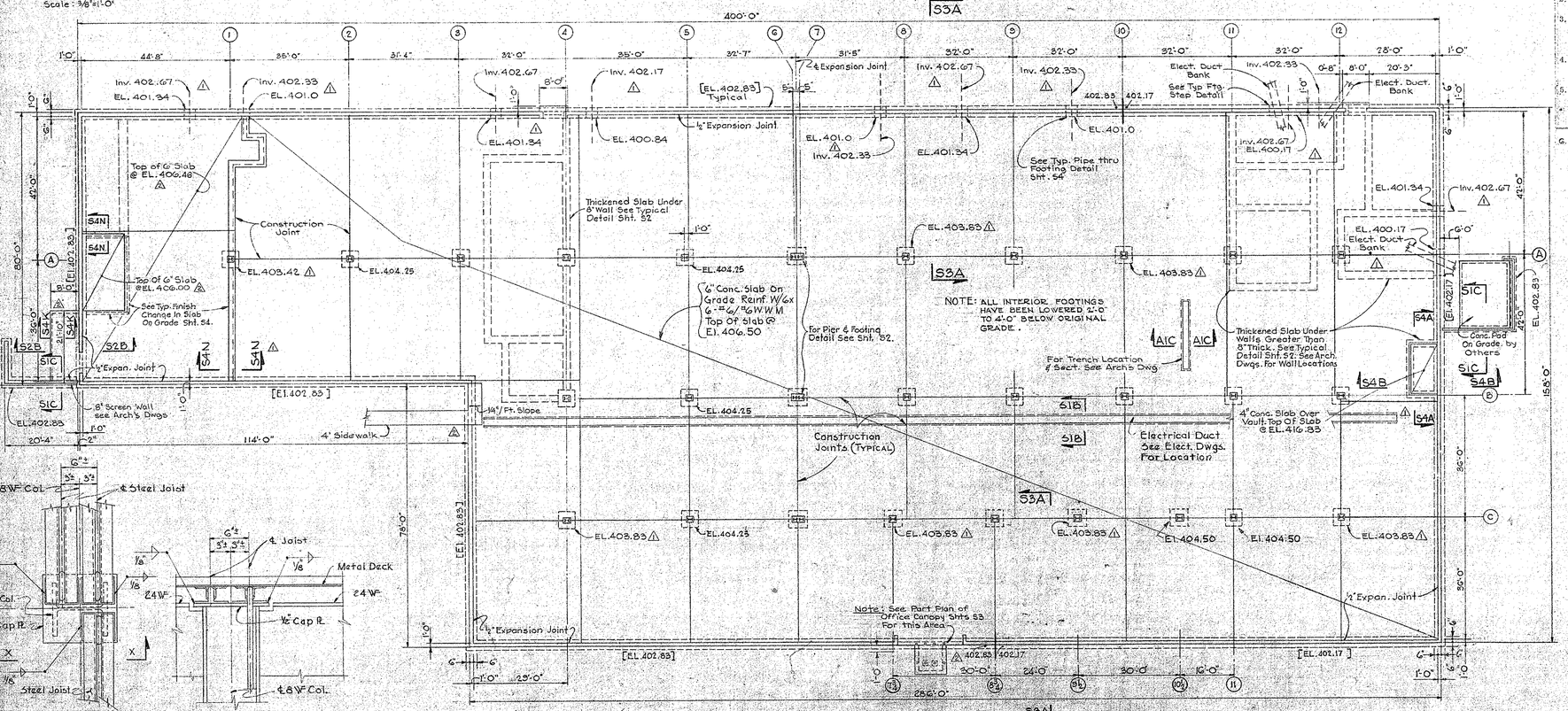
STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION A36.
2. ALL SHOP CONNECTIONS SHALL BE WELDED WITH A233 CLASS E-70 SERIES ELECTRODES. ALL FIELD CONNECTIONS SHALL BE HIGH STRENGTH BOLTED, USING A325 BOLTS, EXCEPT WHERE OTHERWISE NOTED.
3. EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS, CONNECTIONS OF FRAMING MEMBERS SHALL BE CAPABLE OF TRANSFERRING THE FULL STRENGTH OF THE MEMBER USING 3/4" DIAMETER HIGH STRENGTH BOLTS, WHERE THREADING IS EXCLUDED FROM SHEAR PLANES. HIGH STRENGTH BOLTED CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE CONNECTIONS. SHOP SIDE OF CONNECTION ANGLES MAY BE FILLET WELDED ALL AROUND, RESULTING IN A CONNECTION OF EQUAL STRENGTH WITH THE BOLTED CONNECTION.
4. ALL STRUCTURAL STEEL IS DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE CURRENT A.I.S.C. SPECIFICATIONS FOR BUILDINGS.
5. THE CONTRACTOR SHALL SUBMIT ERECTION PLANS AND SHOP DETAILS BEFORE PROCEEDING WITH FABRICATION.
6. MILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
7. BASE PLATES SHALL BE WELDED TO BOTTOM OF COLUMNS.
8. 1/4" THICK LEVELING PLATES SHALL BE USED UNDER ALL COLUMNS RESTING ON CONCRETE.
9. ALL STRUCTURAL STEEL SHALL BE GIVEN ONE SHOP COAT OF PAINT. SEE SPECIFICATIONS.

STEEL JOIST NOTES

1. THE DESIGN, FABRICATION AND ERECTION OF ALL OPEN WEB STEEL JOISTS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS OF LOAD TABLES FOR OPEN WEB STEEL JOISTS OF THE STEEL JOIST INSTITUTE, 1968 EDITION.
2. BRIDGING SHALL BE CONTINUOUS AND SPACED AS INDICATED.
3. DOUBLE JOISTS, WHERE SHOWN ON THE DRAWINGS, SHALL BE CONNECTED BY HORIZONTAL MEMBERS OF EQUAL SIZE OF THAT OF THE BRIDGING, IN LINE WITH THE BRIDGING, AT TOP AND BOTTOM CHORDS OF THE JOISTS.
4. SHOP DRAWINGS OF OPEN WEB STEEL JOISTS SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION OF JOISTS IS STARTED.
5. JOISTS SHALL BE GIVEN ONE SHOP COAT OF ASPHALT BASE PAINT, STANDARD WITH THE MANUFACTURER. AFTER ERECTION OF JOISTS, CONNECTIONS AND ABRADED SHOP PAINT SHALL RECEIVE PAINT OF THE SAME TYPE USED FOR SHOP COAT. JOIST BRIDGING SHALL BE GIVEN ONE COAT OF ASPHALT BASE PAINT.

G. PROVIDE PARALLEL CHORD JOISTS.



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

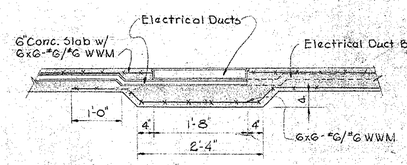
NOTE: 1. FOOTING ELEVATIONS SHOWN ON PLAN ARE ELEVATIONS AT BOTTOM OF FOOTING.
2. FOR CONTROL JOINTS IN MASONRY WALLS SEE ARCH'S DWGS.

FOUNDATION NOTES

1. ALL FOOTINGS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 4000 psf.
2. SUBGRADE UNDER FOOTINGS AND FLOOR SLABS IN FILL AREAS SHALL HAVE A DENSITY OF 95% OF THE MAXIMUM DENSITY, AS PER AASHO TEST T-180, METHOD D.
3. SUBGRADE UNDER FOOTINGS AND FLOOR SLABS IN CUT AREAS SHALL BE UNDISTURBED EARTH.
4. ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CONCRETE IS POURED.

DETAILS S1A, S1 & S3
Scale: 1½" = 1'-0"

SECTION X-X
Scale: 1½" = 1'-0"



SECTION S1B/S1 & S2
Scale: 3/4" = 1'-0"

7:1:70 AS BUILT DRAWING

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

STRUCTURAL-OFFICE BUILDING
FOUNDATION & ROOF FRAMING PLANS

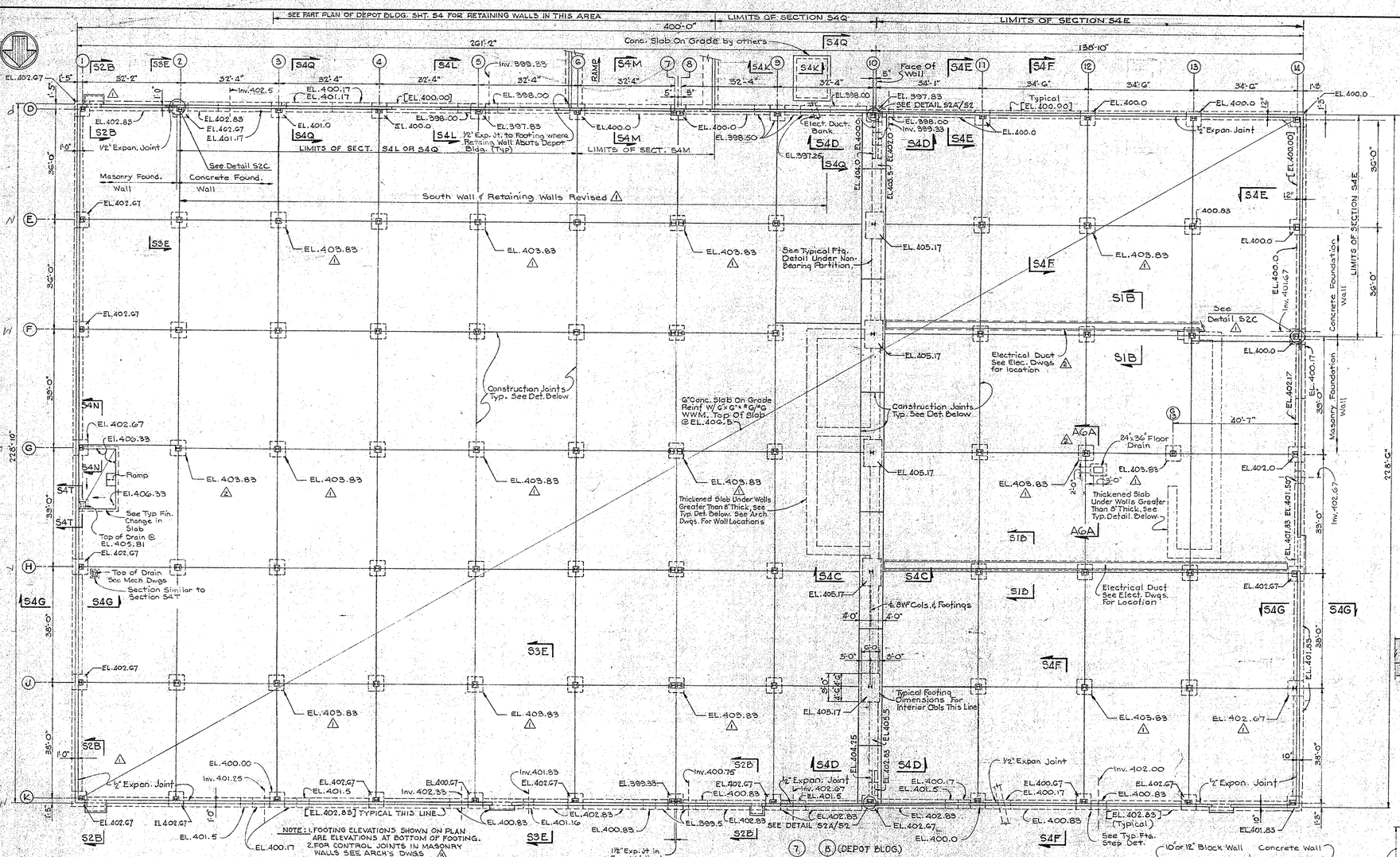
CONSULTING ENGINEERS: WHITMAN, REQUARDT AND ASSOCIATES, BALTIMORE, MARYLAND
BY: C. E. Richard
DATE: 1-20-69

DRAWN BY: J.D.
CHECKED BY: D.H.
APPROVED BY:
B.F.E.C.
CONSTRUCTION PROJECT NUMBER: CST 67-11
SHEET NO. S-1 OF 32

STATE OF MARYLAND PROFESSIONAL ENGINEER

REVISED 4-11-69 REVISED 1/7/69
REVISED 1/21/69 REVISED 12/23/68

W.O. 611Q-2

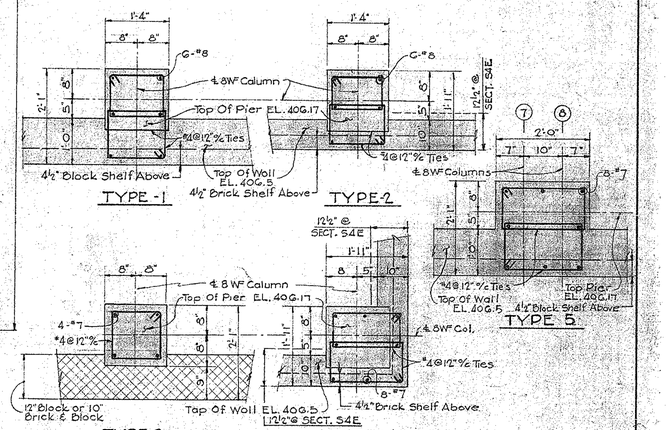


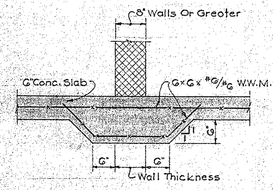
FOUNDATION PLAN

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

CONCRETE NOTES

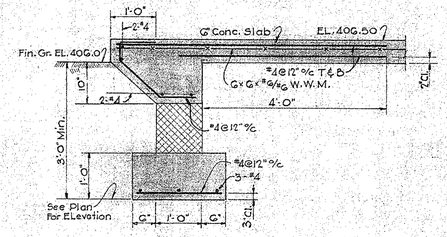
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.
2. REINFORCED CONCRETE SHALL BE DETAILED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT ACI SPECIFICATION 318-63.
3. REINFORCING BARS SHALL CONFORM TO ASTM DESIGNATION A15 FOR INTERMEDIATE GRADE STEEL AND SHALL BE DEFORMED IN ACCORDANCE WITH ASTM DESIGNATION A305.
4. REINFORCING BARS SHALL BE EMBEDDED AND/OR LAPPED TO A MINIMUM OF 30 DIAMETERS.
5. CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
   a. STRUCTURAL SLABS NOT EXPOSED TO GROUND OR WEATHER, 3/4"
   b. FOOTINGS AND CONCRETE POURED DIRECTLY AGAINST EARTH, 3"
   c. BEAMS, SLABS AND WALLS EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS, 2"
   d. BEAMS, WALLS, COLUMNS AND PIERS NOT EXPOSED TO WEATHER, 1½"
6. ALL SLABS ON GROUND SHALL BE POURED BETWEEN CONSTRUCTION JOINTS IN CHECKERBOARD MANNER.
7. CONCRETE SLABS SHALL BE POURED BETWEEN INDICATED JOINTS ALLOWING A MINIMUM PERIOD OF 48 HOURS TO ELAPSE BETWEEN ADJACENT POURS.
8. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL EMBEDDED ITEMS, SUCH AS SLEEVES, ANCHORS, ELECTRICAL CONDUITS, OPENINGS, CHASES, ETC. WHICH INTERFERE WITH CONCRETE CONSTRUCTION. NO CONCRETE MAY BE POURED BEFORE ALL EMBEDDED ITEMS ARE IN PLACE AND OPENINGS BOXED OUT.
9. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
10. ANCHOR BOLTS AND EQUIPMENT PEDESTALS TO BE SIZED AND LOCATED AS SHOWN ON DRAWINGS OR AS REQUIRED TO SUIT EQUIPMENT FURNISHED.
11. PROVIDE 6" GRAVEL AND VAPOR BARRIER UNDER ALL SLABS ON GRADE.
12. EXPOSED SURFACES OF SLABS SHALL RECEIVE A LIQUID HARDENER, SEE FINISH SCHEDULE ON ARCHITECTURAL DRAWINGS.
13. EXPANSION JOINTS SHALL BE FILLED WITH PREMOLDED EXPANSION JOINT FILLER. THE TOP 1" OF EXPANSION JOINTS SHALL BE SEALED. SEE SPECIFICATIONS.





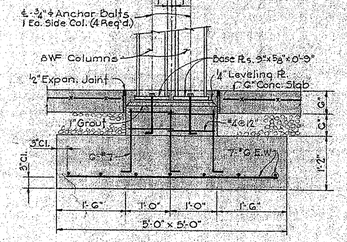
TYPICAL FOOTING DETAIL UNDER NON-BEARING PARTITION

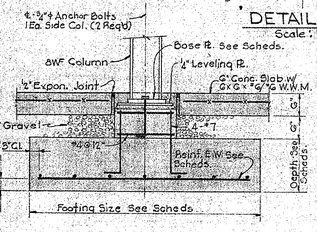
Scale: 3/4" = 1'-0"

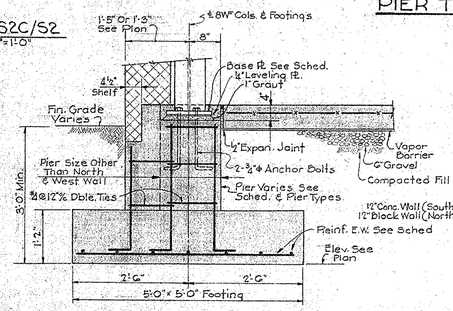


TYPICAL SLAB DETAIL AT DOOR OPENINGS

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

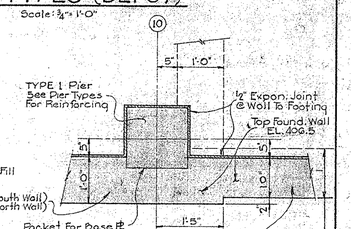






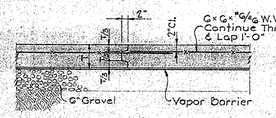
TYPICAL EXTERIOR COLUMN PIER & FOOTING DETAIL (DEPOT)

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



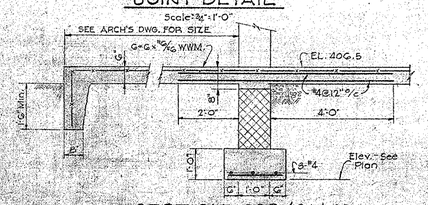
DETAIL S2A/S2

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



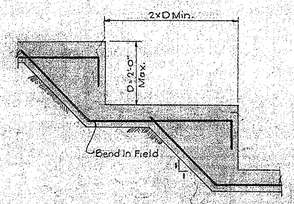
TYPICAL CONSTRUCTION JOINT DETAIL

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



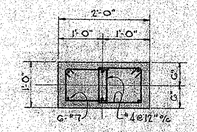
SECTION S2B/S1 & S2

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



TYPICAL WALL FOOTING STEP DETAIL

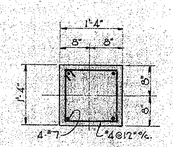
No Scale



SECTION THRU PIER

COLUMN FOOTING DETAIL FOR A7, A8, B7, B8, C7 & C8 E7, E8, F7, F8, G7, G8, H7, H8, J7, J8, K7 & K8 (OFFICE & DEPOT)

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



SECTION THRU PIER

TYPICAL INTERIOR COLUMN FOOTING DETAIL (OFFICE & DEPOT)

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

△ REVISED 1/7/69
△ REVISED 1/21/69 △ REVISED 12/23/68

7-1-70 | AS BUILT DRAWING

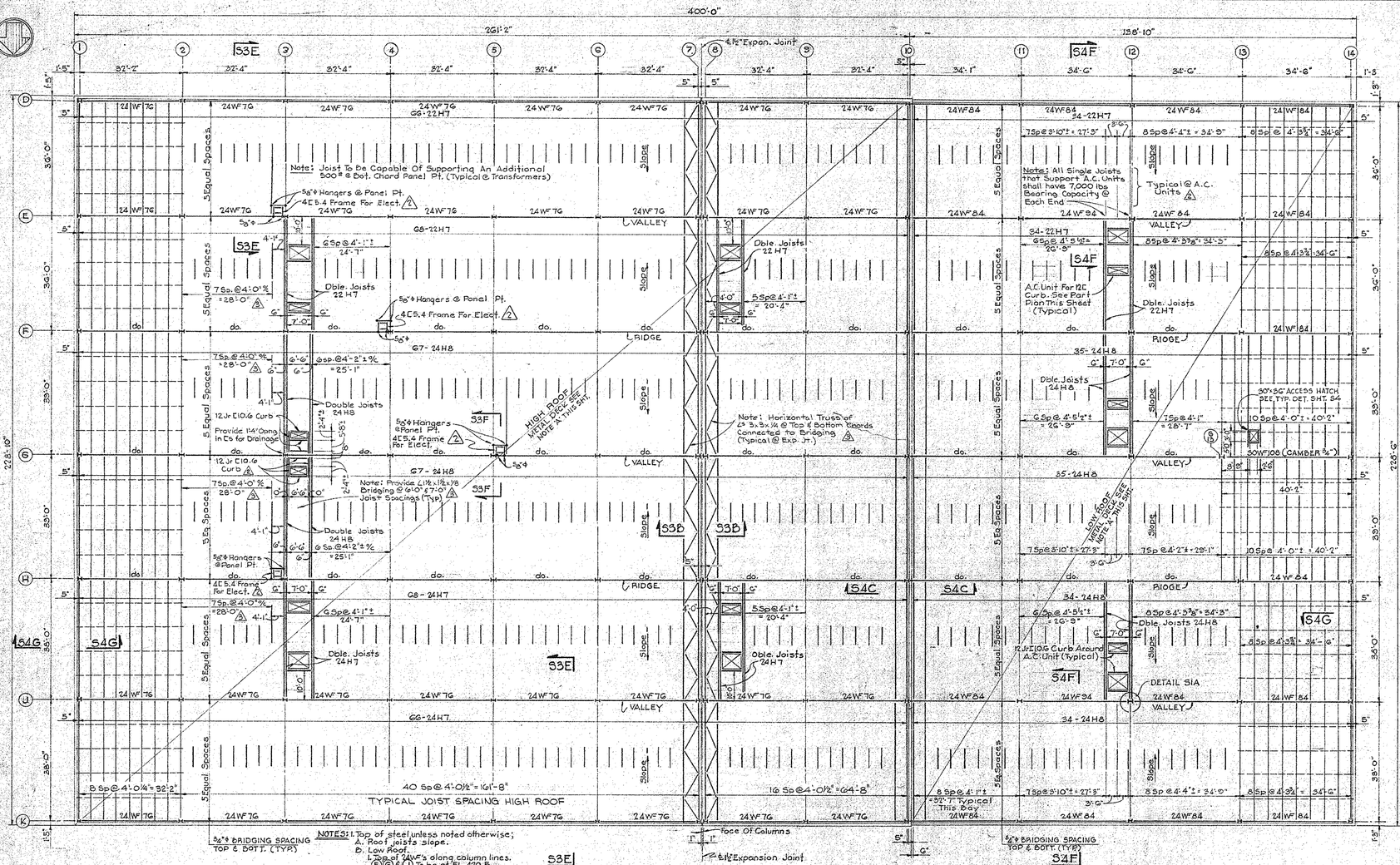
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

STRUCTURAL - DEPOT BUILDING FOUNDATION PLAN & DETAILS

CONSULTING ENGINEERS: WHITMAN, REQUARDT AND ASSOCIATES, BALTIMORE, MARYLAND
BY: [illegible] DATE: 1-20-69

DRAWN BY: B.A.	APPROVED BY:	CONSTRUCTION PROJECT NUMBER: OST 67-11
CHECKED BY: D.H.	B.F.E.C.	SHEET NO. S-2 OF 32

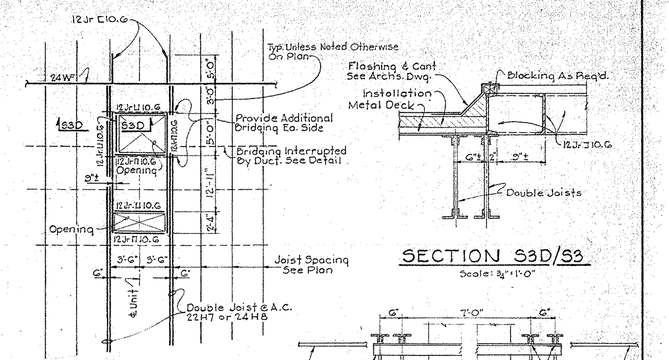
W.O. 6117-2



NOTES: 1. Top of steel unless noted otherwise;
A. Roof joists slope.
B. Low Roof.
1. Top of 24WF's along column lines. (E)&(G) & (J) To be at EL. 420.5.
2. Top of 24WF's along column lines. (D)&(F) H) & (K) To be at EL. 420.95
C. High Roof.
1. Top of 24WF's along column lines. (E)&(G) & (J) To be at EL. 414.5.
2. Top of 24WF's along column lines. (D)&(F) H) & (K) To be at EL. 424.95
2. Top of continuous bond beam to be at EL. 424.50 (High Roof) & at EL. 420.50 (Low Roof).
3. Bond Beams to be Broken @ Control Jts. △

NOTE 'A': Metal decking shall be 1½" deep Section 3-20 as manufactured by H.H. Robertson or approved equal.

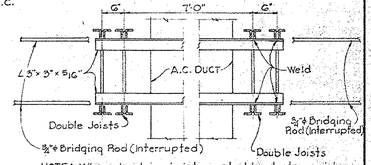
ROOF FRAMING PLAN
Scale: 1/16"=1'-0"



NOTE: Dimensions are approximate only & should suit equipment supplied.

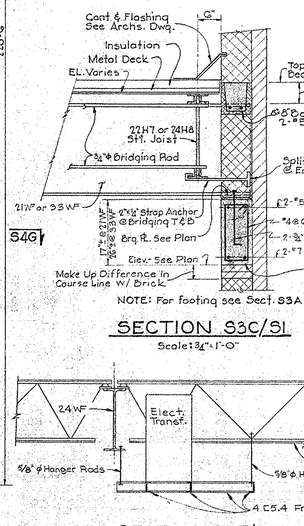
PART PLAN OF A.C. UNIT CURBING
Scale: 1/8"=1'-0"

SECTION S3D/S3
Scale: 3/4"=1'-0"

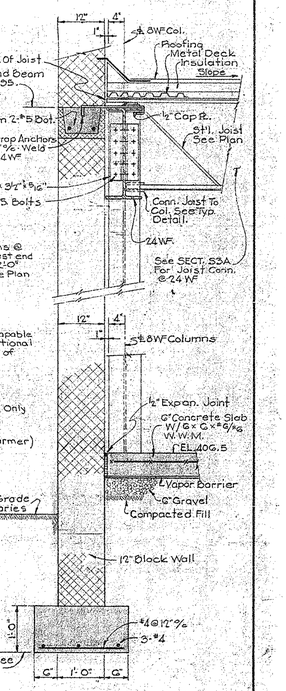


NOTE: Where bridging is interrupted by ducts provide L's 3"x3"x5/16" T&B both sides of duct.

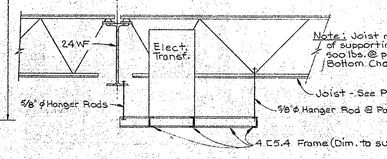
TYPICAL DETAIL AT INTERRUPTED BRIDGING
Scale: 3/4"=1'-0"



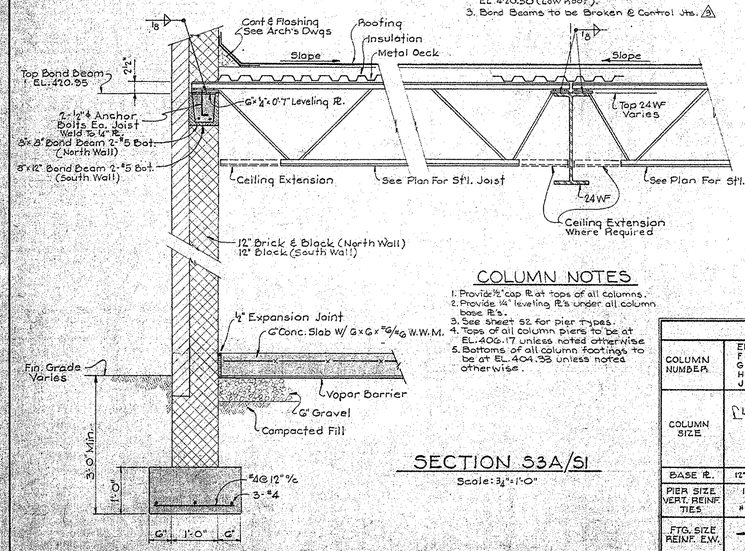
SECTION S3C/S1
Scale: 3/4"=1'-0"



SECTION S3E/S2,S3
Scale: 3/4"=1'-0"

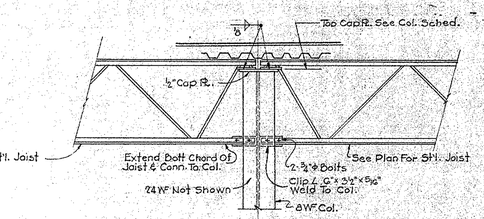


SECTION S3F/S3
Scale: 1/2"=1'-0"

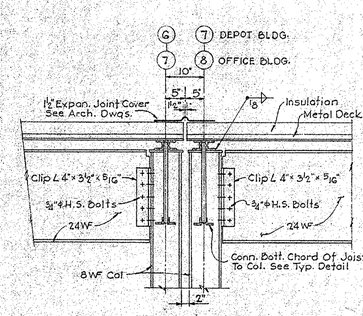


SECTION S3A/S1
Scale: 3/4"=1'-0"

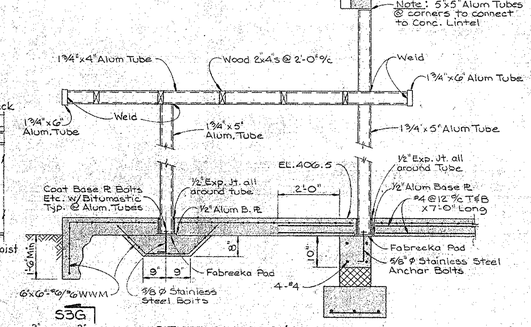
COLUMN NOTES
1. Provide ½" cap Pl. at tops of all columns.
2. Provide 14" leveling Pl.'s under all column base Pl.'s.
3. See Sheet S2 for pier types.
4. Tops of all column piers to be at EL. 406.17 unless noted otherwise.
5. Bottoms of all column footings to be at EL. 404.33 unless noted otherwise.



TYPICAL JOIST CONNECTION AT COLUMN
Scale: 3/4"=1'-0"



SECTION S3B/S1,S3
Scale: 3/4"=1'-0"



SECTION S3G/S1
Scale: 1/2"=1'-0"

COLUMN & FOOTING SCHEDULE (DEPOT)

COLUMN NUMBER	E11, E12, E13 F11, F12, F13 G11, G12, G13 H11, H12, H13 J11, J12, J13	E2, E3, E4, E5, E6, E8 F2, F3, F4, F5, F6, F8 G2, G3, G4, G5, G6, G8 H2, H3, H4, H5, H6, H8 J2, J3, J4, J5, J6, J8	E7, E9 F7, F9 G7, G9 H7, H9 J7, J9	D1, E1, F1, G1 H1, J1, K1, K2 K3, K4, K5, K6 K8, K10	D14	D2 D3, D4, D5 D6, D9, D10	D11, D12, D13 E14, F14	D7, D8 K7, K8	E10 F10 G10 H10 J10	G14 H14 K11, K12, K13, K14 J14
COLUMN SIZE	LOW ROOF 8WF31	8WF40	8WF40	HIGH ROOF 8WF40	8WF31	8WF40	8WF31	8WF40	8WF40	8WF31
BASE PL.	12"x7/8"x1'-0"	12"x7/8"x1'-0"	9"x5/8"x0'-9"	12"x7/8"x1'-0"	12"x7/8"x1'-0"	12"x7/8"x1'-0"	12"x7/8"x1'-0"	9"x5/8"x0'-9"	12"x7/8"x1'-0"	12"x7/8"x1'-0"
PIER SIZE VERT. REINF. TIES	16"x16" 4-#7 #4@12"	16"x16" 4-#7 #4@12"	12"x24" 6-#7 #4@12" DBLE	TYPE 5 4-#7 #4@12"	TYPE 4 6-#7 #4@12" DBLE	TYPE 1 6-#8 #4@12" DOUBLE	TYPE 2 6-#8 #4@12" DBLE	D7-D8 TYPE 5 8-#7 #4@12" DBLE	NONE	TYPE 3 8-#7 #4@12"
FTG. SIZE REINF. E.W.	—	5'-0"x5'-0"x1'-2" DEEP W/ 7-#6							SEE PLAN & SECTION SHT. S4.	5'-0"x5'-0"x1'-2" w/ 7-#6

SEE DETAILS SHEET S2 — SEE DETAILS SHT. S2 FOR K7 & K8

PART PLAN OF OFFICE BLDG CANOPY @ ENTRANCE
Scale: 1/4"=1'-0"

△1 REVISED 1-21-69
△2 REVISED 1-7-69
△3 REVISED 12-23-68

7-1-70 AS BUILT DRAWING

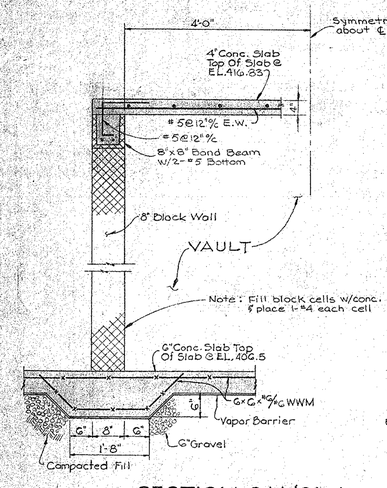
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

STRUCTURAL-DEPOT BUILDING
ROOF FRAMING PLAN & DETAILS

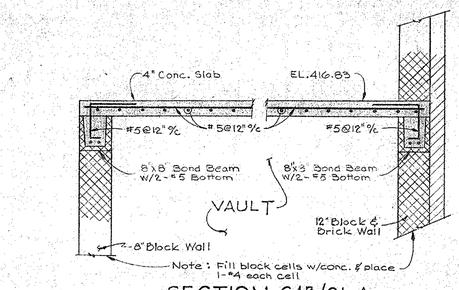
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: [signature] DATE: 1-20-69

DRAWN BY B.A.	APPROVED BY	CONSTRUCTION PROJECT NUMBER DST 67-11
CHECKED BY D.H.	B.E.E.C.	SHEET NO. S-3 OF 32

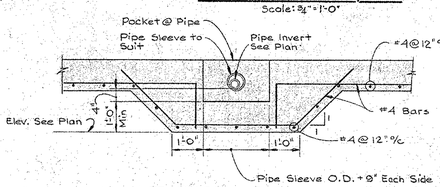
W.O. 61177-2



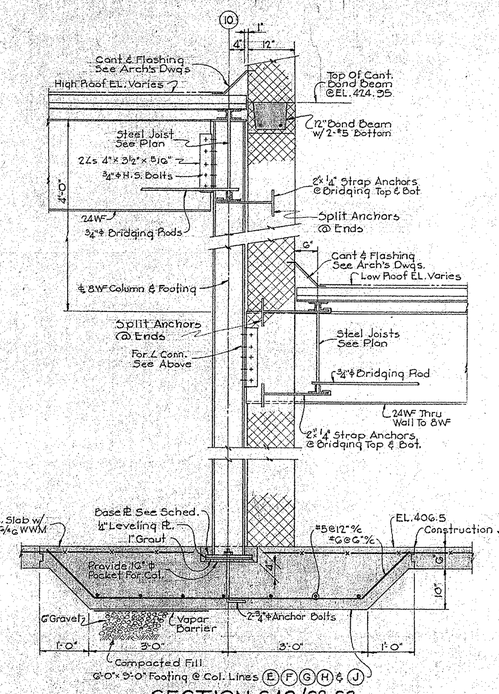
SECTION S4A/S1 △
Scale: 3/4"=1'-0"



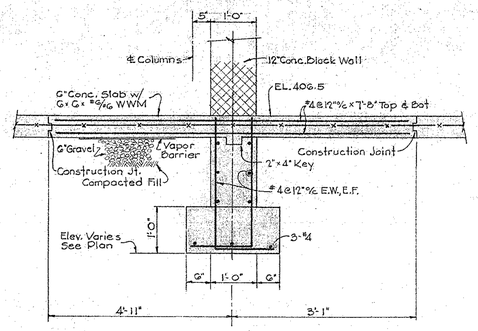
SECTION S4B/S1 △
Scale: 3/4"=1'-0"



TYPICAL PIPE THRU △ FOOTING DETAIL
Scale: 1/2"=1'-0"



SECTION S4C/S2,S3
Scale: 3/4"=1'-0"



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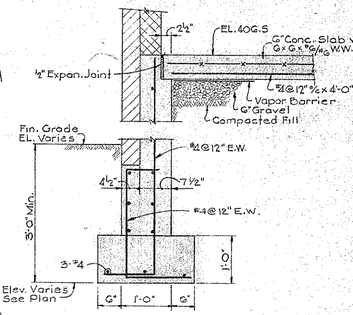
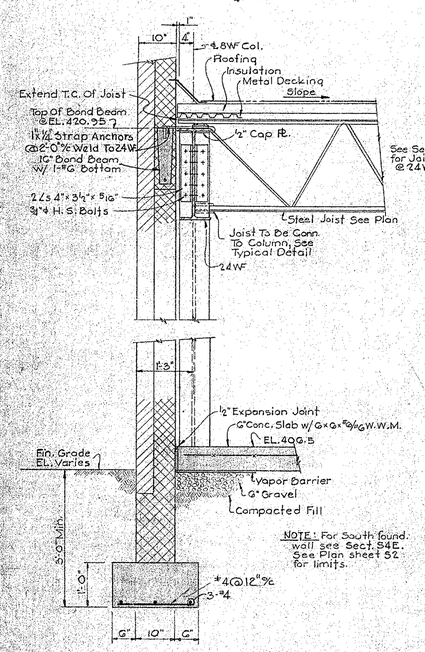
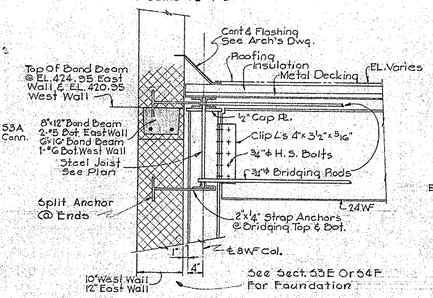


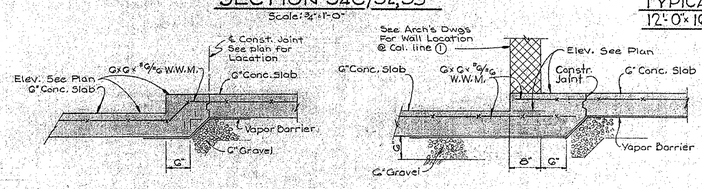
SECTION S4E/S2 △
Scale: 3/4"=1'-0"



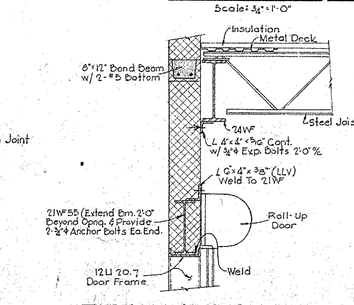
SECTION S4F/S2,S3
Scale: 3/4"=1'-0"



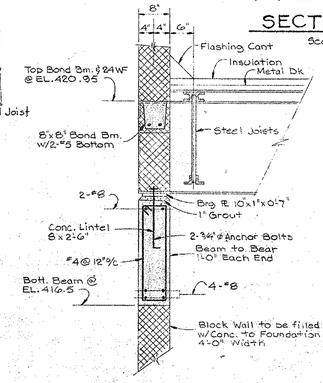
SECTION S4G/S3
Scale: 3/4"=1'-0"



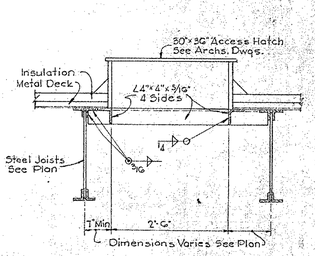
TYPICAL FINISH CHANGE △ IN SLAB ON GRADE
Scale: 3/4"=1'-0"



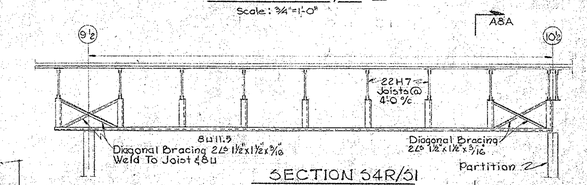
TYPICAL SECTION THRU 12'-0"x16'-0" ROLL-UP DOOR
Scale: 1/2"=1'-0"



SECTION S4P/S1 △
Scale: 3/4"=1'-0"

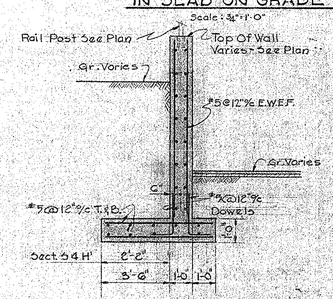


TYPICAL DETAIL AT ACCESS HATCH
Scale: 3/4"=1'-0"

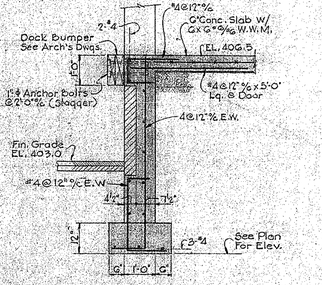


SECTION S4R/S1
Scale: 1/2"=1'-0"

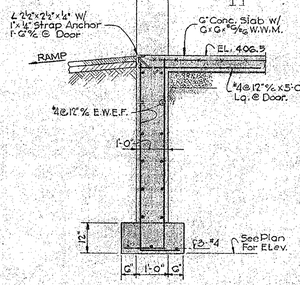
SECTION S4J/S4 △
Scale: 1/2"=1'-0"



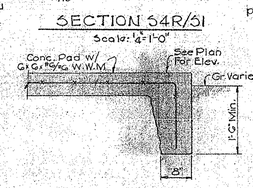
SECTION S4H/S4 △
SECTION S4H' (AS NOTED)
Scale: 3/8"=1'-0"



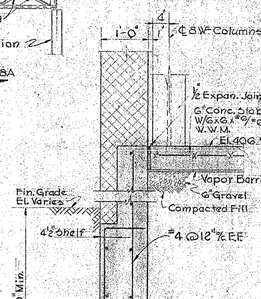
SECTION S4L/S2 △
Scale: 1/2"=1'-0"



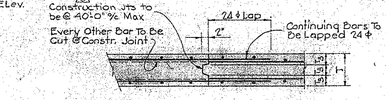
SECTION S4M/S2
Scale: 1/2"=1'-0"



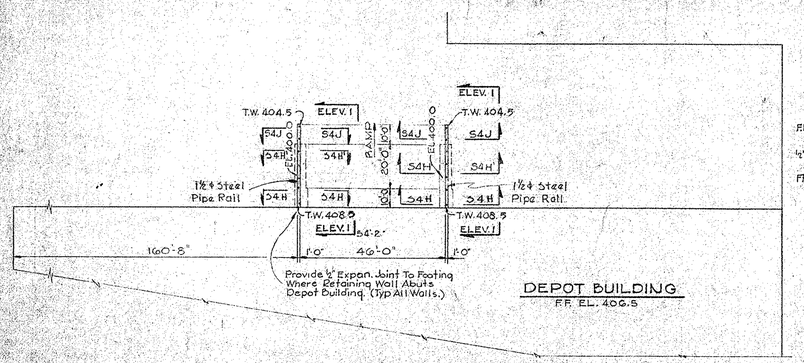
SECTION S4K/S1,S2
Scale: 3/4"=1'-0"



SECTION S4Q/S2 △
Scale: 3/4"=1'-0"

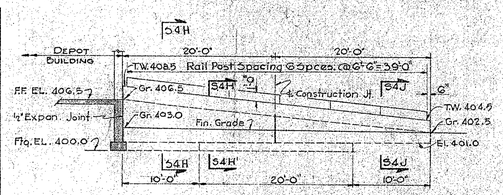


TYPICAL CONSTRUCTION JT. IN CONCRETE WALLS
No Scale

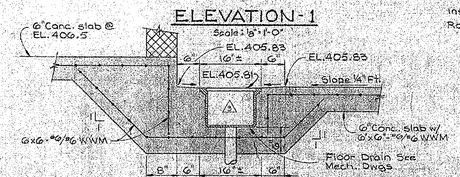


DEPOT BUILDING
FF. EL. 406.5

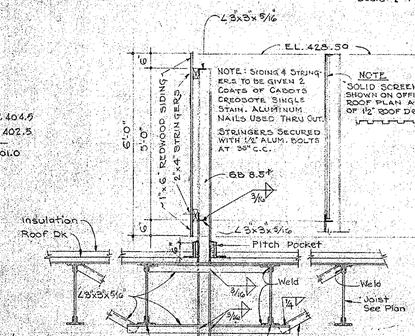
PART PLAN OF DEPOT BLDG. SHOWING RETAINING WALLS △
Scale: 1"=30'



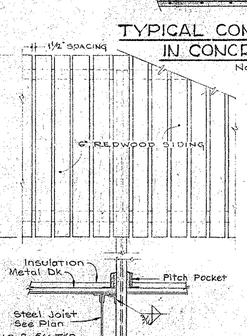
ELEVATION-1
Scale: 1/8"=1'-0"



SECTION S4T/S2 △
Scale: 3/4"=1'-0"



SECTION S4R/S1 △△
Scale: 1/2"=1'-0"



SECTION S4S/S1 △△
Scale: 1/2"=1'-0"

△ REVISED 2-21-69
△ REVISED 1-21-69
△ REVISED 1-7-69
△ REVISED 12-23-68

7-1-70 AS BUILT DRAWING

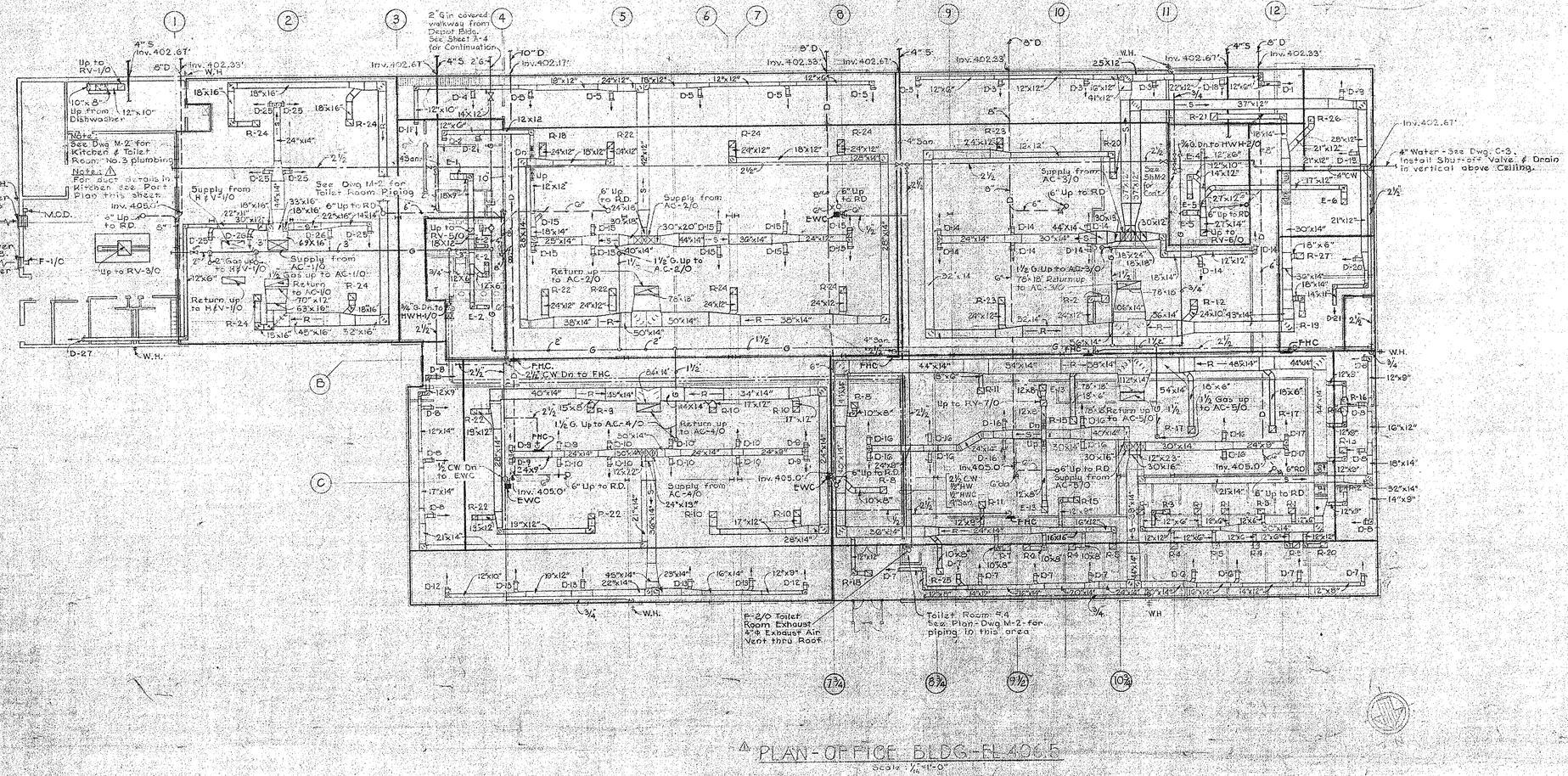
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

STRUCTURAL-OFFICE & DEPOT BUILDINGS
SECTIONS & DETAILS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: [illegible] DATE: 1-20-69

DRAWN BY: JD
CHECKED BY: DH
APPROVED BY
P.E.C.
CONSTRUCTION PROJECT NUMBER: CST 67-11
SHEET NO. S-4 OF 32

Note: See Drawing C-3 for continuation of Utilities



PLAN - OFFICE BLDG - FL ADC 5

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

GENERAL NOTES

For list of drawings - see Dwg C-1

For Outside Utilities - See Civil Dwg C-3

For Roof Plans - see Arch Dwg A-10

For Reflected Ceiling Plans - See Arch Dwg A-8

For Fire Protection Systems - See Mech Dwgs Not (M-5

For Electric Heating Equipment - see Electrical Plans

For all Roof-top Air Conditioning units, extend 2" condensate drains across roof to nearest roof drain. Provide 4" deep trap with cleanout at unit. Piping shall be clamped to 2"x6"x10" wood blocks at 8'-0" intervals. Blocks shall be treated with wood preservative

For thermostat locations - see Electrical Plans.

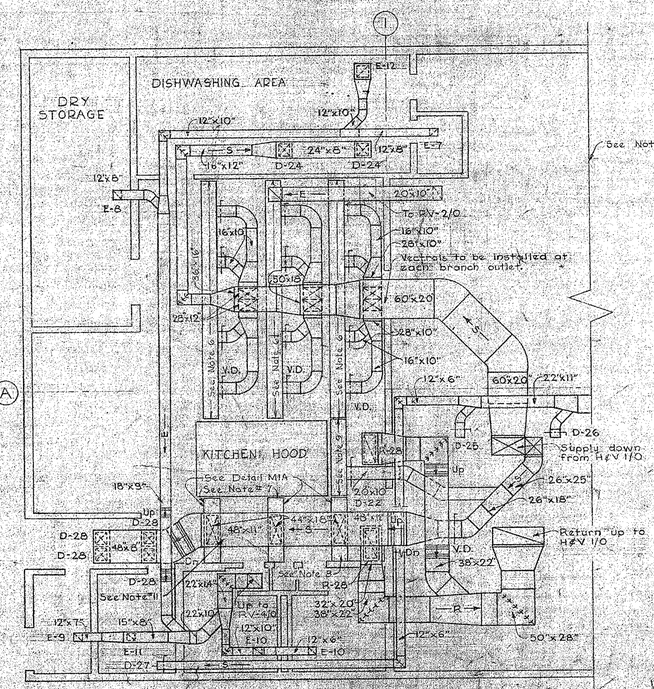
All flue vents and exhaust air vent ducts thru roof shall be coordinated and terminate with matching weatherproofs caps not 2'-0" above roof.

All roof penetrations shall be flashed and weatherproofed.

All traps for floor drains shall be automatically primed.

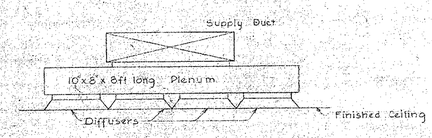
DRAWING NOTES

1. For description of air diffusers, registers, grilles and outlets - see Diffuser Schedule - Dwg M-7.
2. Acoustical sound lining shall be applied to the branch duct for each exhaust register in Dispensary Toilet Rooms and Conference Room. Maximum length required = 10'-0" each branch.
3. Acoustical sound lining shall be applied to the return duct of AC-1/0, 3/0, 4/0, 5/0 & 6/0 for 20'-0" upstream of the return connection to the A.C. unit.
4. Duct sizes shall be increased for sound lining to provide indicated net free inside area.
5. Provide cleanouts in roof drain piping at base of each riser, at all 30° elbows, and at 50' max. intervals along underground lines.
6. 30ft x 24" x 10" Supply plenum located on top of 15 - D-22 diffusers.
7. 8ft x 24" x 10" Supply plenum located on top of 4 - D-28 diffusers.
8. 8ft x 24" x 10" Supply plenum located on top of 4 - D-22 diffusers.
9. 10ft x 24" x 10" Supply plenum located on top of 5 - D-23 diffusers.
10. For continuation see Plan this sheet.
11. Vectrols to be installed at each branch outlet.
12. See Detail M17E for Typical Duct Connection to A.C. Units.
13. See Detail M17E for Typical Return Grille Connection.



PART PLAN - KITCHEN AND CAFETERIA OFFICE BLDG.

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



DETAIL - M1A/M1

LEGEND

S	Sanitary Drain
D	Storm Drain
CW	Domestic Cold Water
HW	Domestic Hot Water (140°F)
HWC	Domestic Hot Water Circulating
68°	Tempered Water - 68°F
85°	Tempered Water - 85°F
120°	Tempered Water - 120°F
V	Vent
F	Fire Line
A	Compressed Air Line
G	Gas Line
PL	Priming Line
FD	Floor Drain
RD	Roof Drain
FCO	Flush Cleanout
CO	Cleanout
HB	Hose Bibb
	Gate Valve
	Globe Valve
	Plug Valve
	Swing Check Valve
PRV	Pressure Regulating Valve
	Control Valve
	3-Way Control Valve
	Balancing Cock
	Pressure Relief Valve
	Safety Valve
	Solenoid Valve
	Automatic Air Vent
	Thermometer
SA	Shock Absorber
	Pressure Gage with stopcock
	Pipe Anchor
	Union
	Strainer with Blow-off Valve
ARD	Acid Resistant Drain
ARV	Acid Resistant Vent
ARPL	Acid Resistant Priming Line
(T)	Thermostat
VTR	Vent Thru Roof
RL	Rain Leader
WH	Wall Hydrant
RV	Roof Ventilator
CFM	Cubic Feet Per Minute
AD	Access Door
	Duct work: Interior Dimensions
MOD	Motor Operated Damper
V.D.	Volume Damper
F.D.	Fire Damper
	Splittar Damper
	Rise or Fall of Duct work As To Air Flow
	"Vectrol" Branch Take-off
	Supply Duct with Damper for Ventilating Ceiling
	Square Bend With Turning Vanes
D-1	Supply Diffuser or Duct
R-1	Return Grille
E-1	Exhaust Grille
F-1	Fan
AC-1	Air Condition Unit
HV-1	Heating & Ventilating Unit
RV-1	Roof Ventilator
S	Supply Air
R	Return Air
E	Exhaust Air
I.D.	Indirect Connection
A.F.F.	Above Finished Floor
FHC	Fire Hose Cabinet
FHR	Fire Hose Rack
EWC (SE)*	Electric Water Cooler (SE - semi-recessed)*
	Pendant Sprinkler Head
	Upright Sprinkler Head
	Zone Barrier - (air conditioning)

1	1-20-69	Revised Kitchen, added piping, general changes.
	7-1-70	As Built Drawing

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

MECHANICAL-OFFICE BUILDING

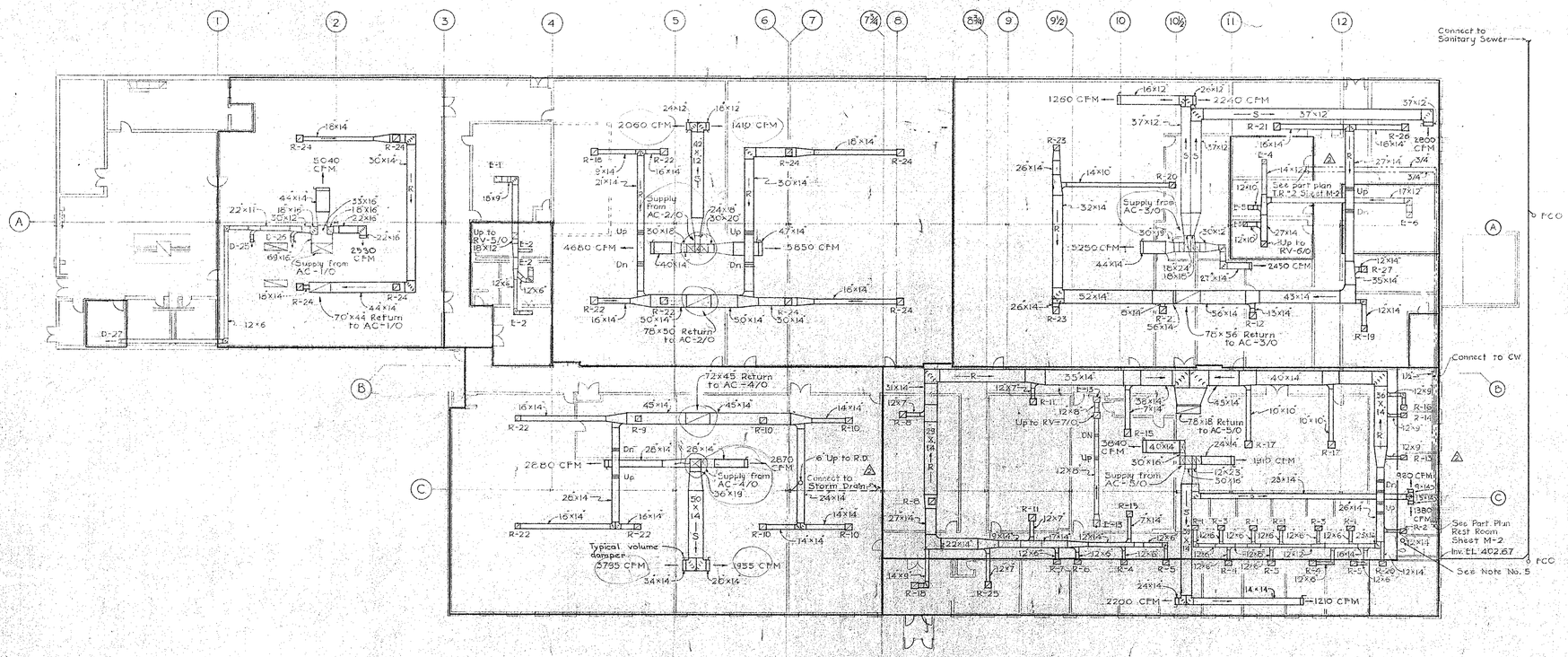
HVAC, PLUMBING

WHITMAN, REQUARDT AND ASSOCIATES

CONSULTING ENGINEERS — BALTIMORE, MARYLAND

BY: DATE: 1-20-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
GS		CST 67-11
CHECKED BY JW	B.F.E.C.	SHEET NO. M-1 OF 32



PLAN - OFFICE BLDG - EL 406.5

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

GENERAL NOTES

1. For General Notes, see Sheet No. M-1.

DRAWING NOTES

1. Ductwork shown on this sheet superceeds the corresponding information on sheet No. M-1. See sheet No. M-1 for remainder of ductwork, HVAC, and plumbing not operated here.
2. Dark representation is for revised ductwork. Light representation is for ductwork unchanged from Sheet No. M-1.
3. See Electrical Drawings for thermostat locations.
4. For remainder of Drawing Notes, see Sheet No. M-1.
5. Ceiling Exhauster shall be Emerson Electric Model No. 256 or approved equal, 200 CFM, 7" Exhaust air vent thru roof.

7-1-70	As Built Drawing
△ Added Rest Room plumbing & exhaust; revised ductwork & Roof Drain	

THIS SHEET IS AN OVERLAY FOR SHEET M-1.

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

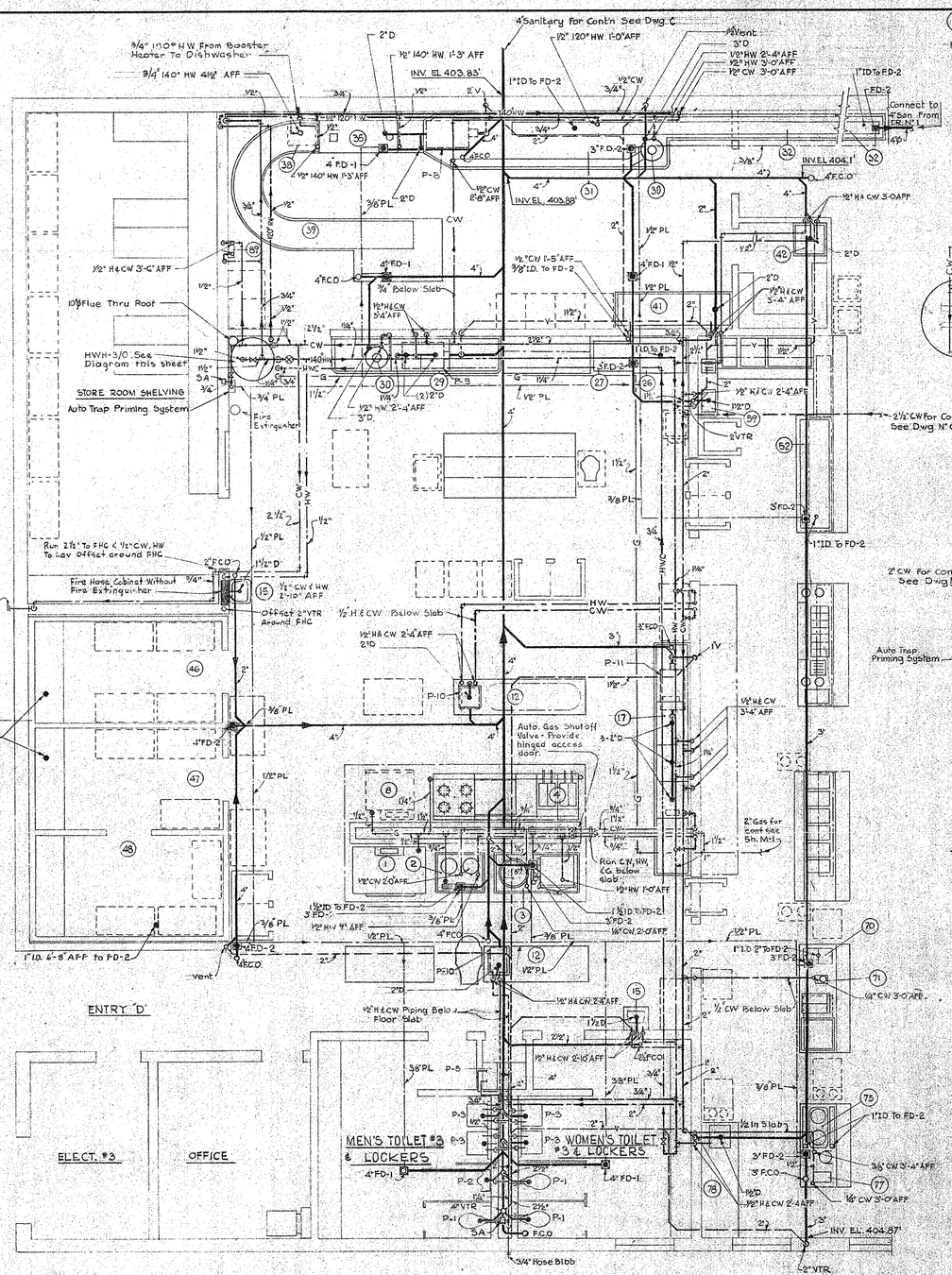
SUPPLEMENTARY DRAWING
MECHANICAL-OFFICE BUILDING
HVAC, PLUMBING

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY C.F. Mullen — DATE: 2-21-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
MZ		CST 67-11
CHECKED BY FHT	B.F.E.C.	SHEET NO. M-1A OF 32

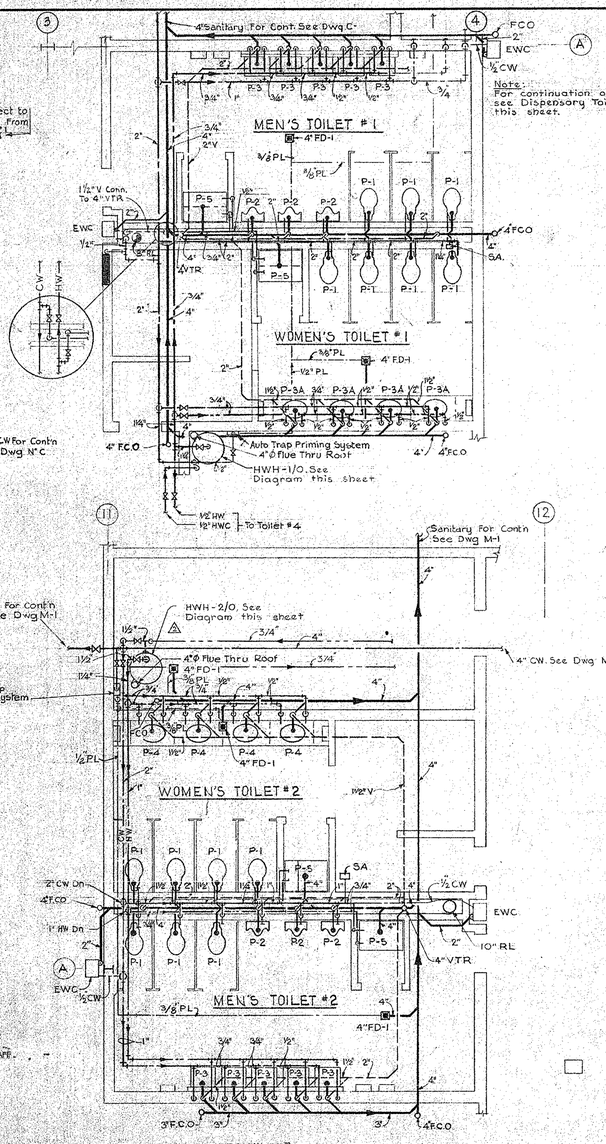
STATE OF MARYLAND — FRANK H. WARD — No. 2076 — REGISTERED PROFESSIONAL ENGINEER

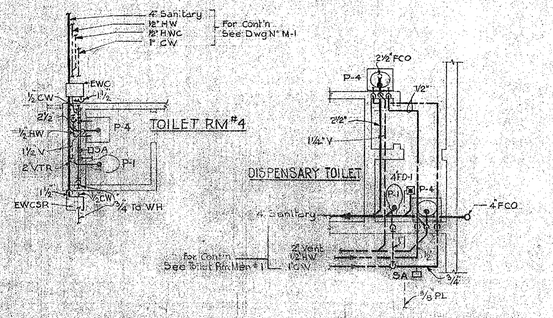
Frank H. Ward



KITCHEN PLAN & TOILET ROOM N° 3

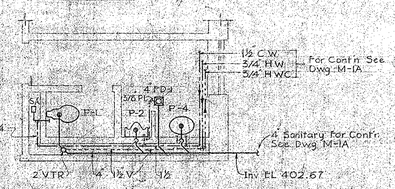
Scale ¾" = 1'-0"





PART PLANS-TOILET ROOMS N° 1, 2, 4, AND DISPENSERY

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



PART PLAN - REST RM

Scale 1/4" = 1'-0"

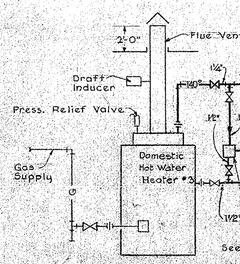
KITCHEN EQUIPMENT AND PLUMBING SCHEDULE

N°	Q'TY	EQUIPMENT	See Note 2	CONNECTIONS CW	HW	W	FD	REMARKS	GAS
1	1	BAKING & ROASTING OVEN	X						(2) ½"
2	1	TWO (2) 20 QT. TABLE TYPE KETTLES	X	½"	½"	1½"	3"	FUNNEL DRAIN	¾"
3	1	STEAMER & KETTLE UNIT	X	½"	½"	1½"	3"	FUNNEL DRAIN	¾"
4	1	FRYERS	X						1¼"
8	1	CONVECTION OVEN	X					FUTURE	½"
12	2	WORK TABLE W/SINK	X	½"	½"	2"			
15	2	HAND SINKS	X	½"	½"	1½"			
17	1	POT SINK	X	(2) ½"	(2) ½"	(3) 2"		GREASE TRAP	
26	1	ICE BIN	X				3"	FUNNEL DRAIN	
27	1	ICE MACHINE	X	¼"					
29	1	PREPARATION SINK	X	½"	½"	(2) 2"		GREASE TRAP	
30	2	DISPOSAL UNIT	X		½"	3"			
31	1	SOILED DISH TABLE	X	½"					
32	1	CONVEYOR & PAN	X				3"	FUNNEL DRAIN	
35	1	DISHWASHER W/PRE WASH	X		(2) ½" ¾"	2"	4"	GREASE TRAP	
38	1	HOT WATER BOOSTER HEATER	X		¾"				
39	1	CLEAN DISH TABLE W/GRAVITY TYPE CONVEYOR & ROLL	X				4"		
41	1	SILVER SORTING TABLE W/SOAK SINK	X	½"	½"	2"	4"		
42	1	MOP SINK	X	¾"	¾"	3"			
46	1	WALK-IN REFRIGERATOR	X				4"		
47	1	WALK-IN REFRIGERATOR	X						
48	1	WALK-IN FREEZER	X				4"		
52	1	COLD PAN	X				3"	FUNNEL DRAIN	
59	1	BACK BAR COUNTER W/SINK	X	½"	½"	1½"			
70	1	ICE CHEST	X				3"	FUNNEL DRAIN	
71	1	ICE TEA DISPENSER	X	½"					
75	1	COFFE URN	X	⅜"			3"	FUNNEL DRAIN	
77	1	HOT CHOCOLATE DISPENSER	X	¼"					
78	1	BACK BAR W/SINK	X	½"	½"	2"			
89	1	FLUSH DOWN HOSE & REEL ASS'Y	X	½"	½"				
P-1		WATER CLOSET		1¼"	–	4"			
P-2		URINAL		1"	–	2"			
P-3		LAVATORY		½"	½"	1½"			
P-4		LAVATORY		½"	½"	1½"			
P-5		MOP CEPTOR		½"	½"	3"			
P-8	1	GREASE TRAP - 50 GPM - 100 LBS. GREASE CAP.				3"		FLUSH	
P-9	1	GREASE TRAP - 50 GPM - 100 LBS. GREASE CAP.				3"		FLUSH	
P-10	2	GREASE TRAP - 20 GPM - 40 LBS. GREASE CAP.				2"		FLUSH	
P-11	1	GREASE TRAP - 75 GPM - 150 LBS. GREASE CAP.				3"		FLUSH	
EWC		ELECTRIC WATER COOLER		½"		1½"			

X Indicates Equipment to be furnished & set by Owner - See Note N° 2

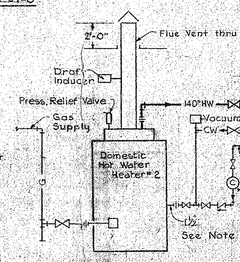
DRAWING NOTES

1. See Dwg. M-1 for General Notes & Legend.
2. See Kitchen Equipment Schedule for equipment to be furnished & set by Owner. Contractor shall provide rough-in and final connections.
3. For Water Heater capacity - see schedule - Dwg. M-7.
4. See Schedule - Dwg M-7 for Heater capacities and Gas Supply.



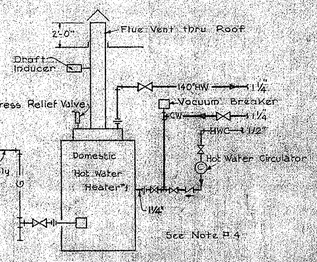
KITCHEN-HOT WATER HEATER DIAGRAM #3

No Scale



HOT WATER HEATER DIAG TOILET RMS #2 & REST RM

No Scale



HOT WATER HEATER DIAG TOILET ROOMS #1

No Scale

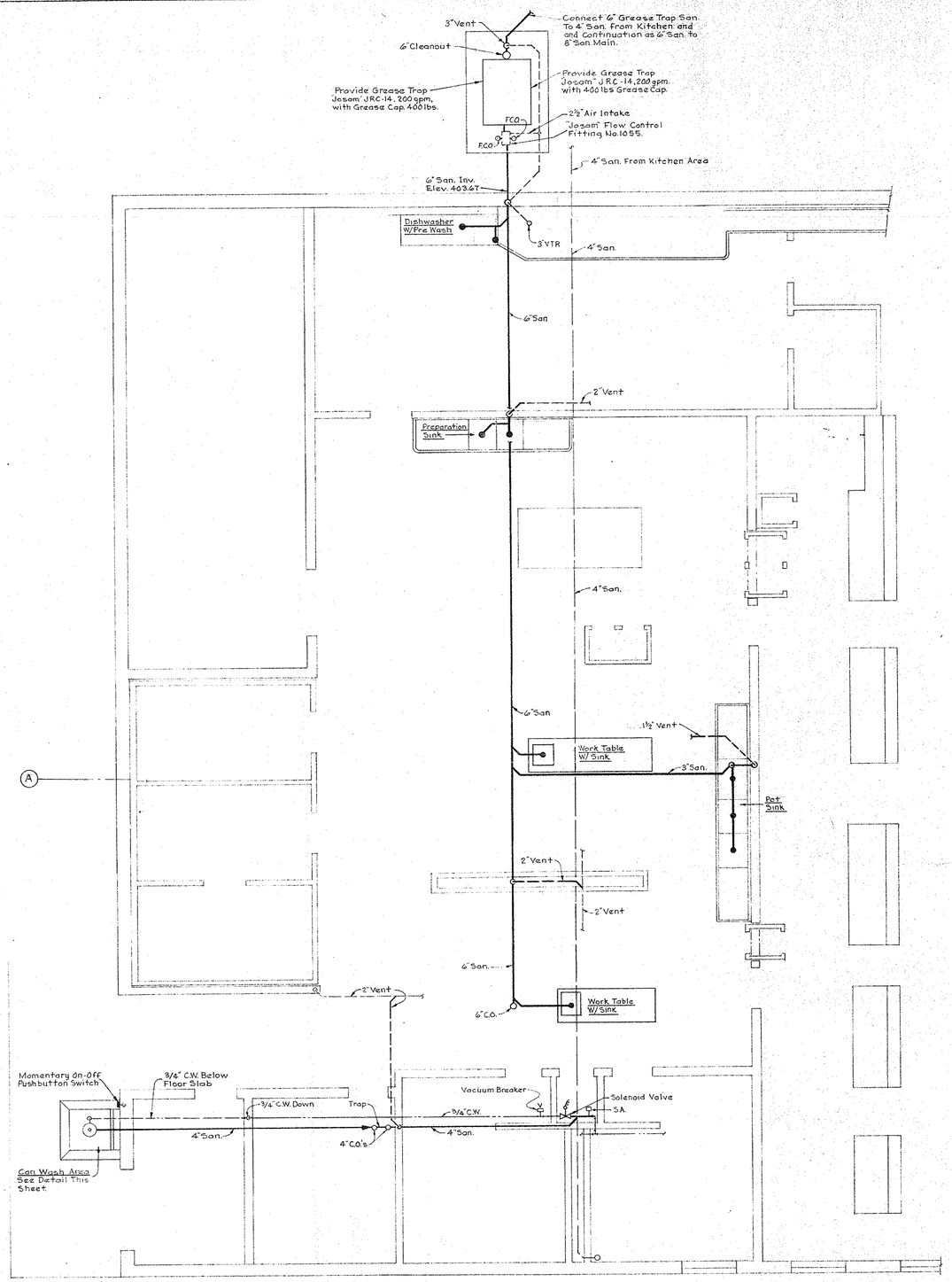
7-1-70	AS BUILT DRAWING
1	Added Part Plan - Rest Room, general changes.
1-20-69	Added gas piping, revised piping, general changes.

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

MECHANICAL - OFFICE BUILDING
KITCHEN, TOILET ROOMS, PLUMBING

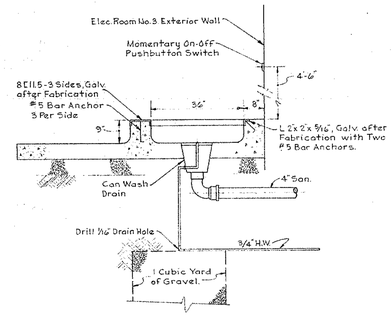
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY — DATE: 1-20-69

DRAWN BY: GB
CHECKED BY: J.W
APPROVED BY: B.F.E.C.
CONSTRUCTION PROJECT NUMBER: CST 67-11
SHEET NO. M-2 OF 32



KITCHEN PLAN & TOILET ROOM NO.3

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



CAN WASH AREA

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

7-1-70	AS BUILT DRAWING

THIS SHEET IS AN OVERLAY FOR SHEET M-2.

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

SUPPLEMENTARY DRAWING

MECHANICAL-OFFICE BUILDING
KITCHEN, TOILET ROOMS, PLUMBING

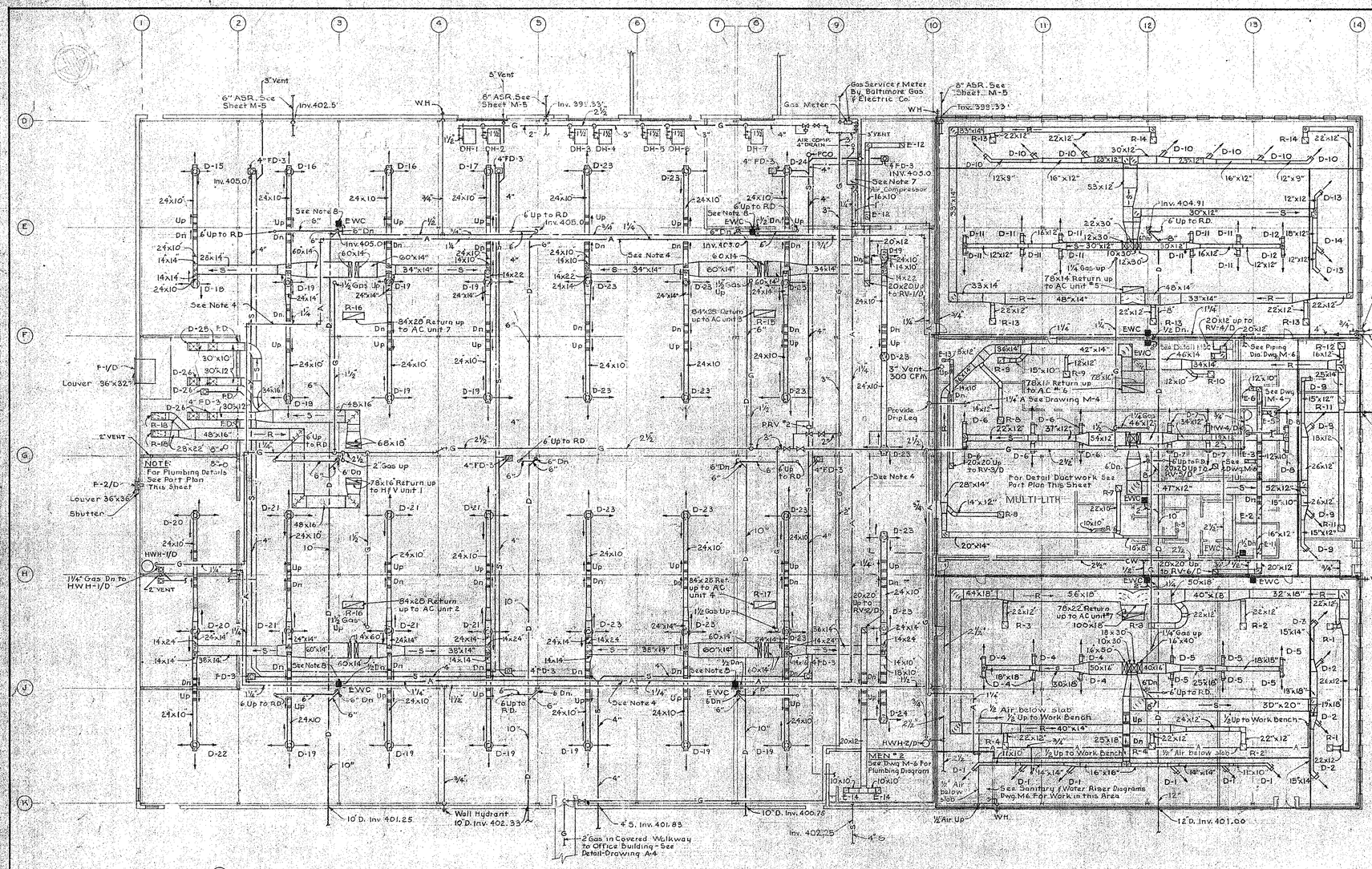
WHITMAN, REQUARDT AND ASSOCIATES

CONSULTING ENGINEERS BALTIMORE, MARYLAND

BY C. F. Millard DATE: 2-21-69

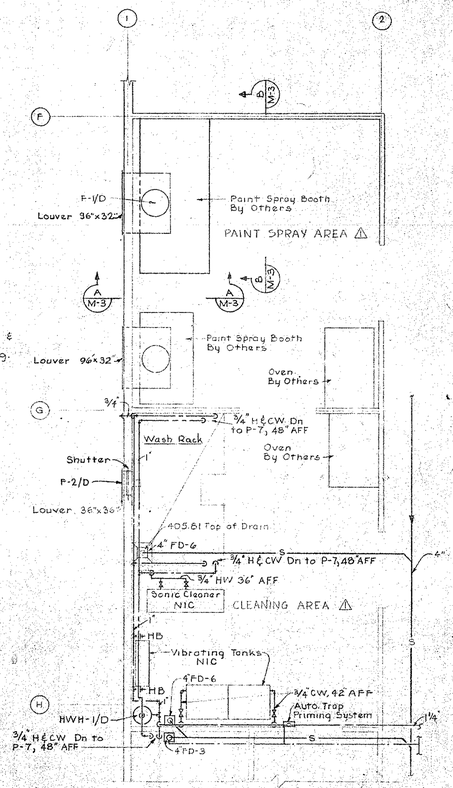
DRAWN BY WVH	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY FHT	B.F.E.C.	SHEET NO. M-2A OF 32

Fred H. Touchton



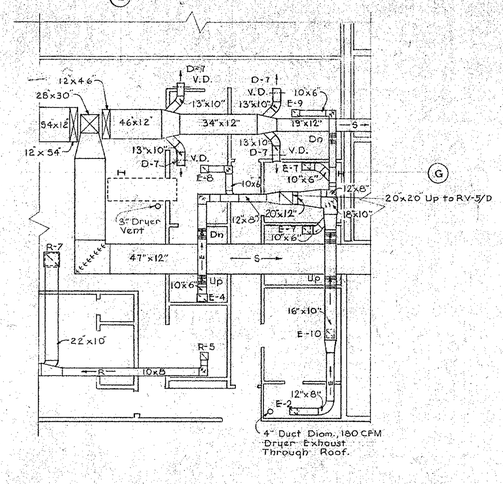
△ PLAN - DEPOT BLDG. - EL 406.5

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



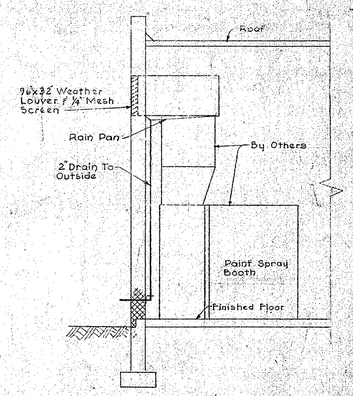
△ PART PLAN-PAINT AND CLEANING AREA
DEPOT BLDG.

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



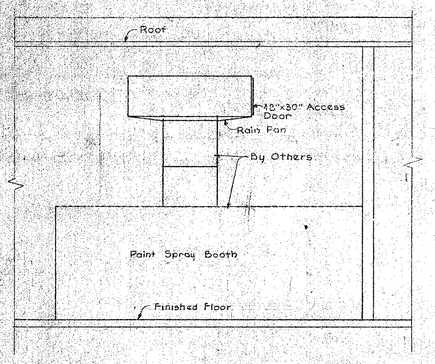
PART PLAN-PHOTO AREA
DEPOT BLDG.

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



SECTION—M3A/M3

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

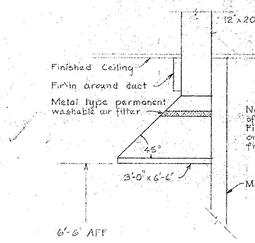


SECTION—M3B/M3

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

DRAWING NOTES

1. See Drawing M1 For GENERAL NOTES & LEGEND
2. For Description of Air Diffusers, Registers, Grilles and Outlets - See Diffuser Schedule - Drawing M-7
3. Acoustical Sound Lining Shall be Applied to the Return Duct of AC-5/D, 6/D, & 7/D for 30'-0" Upstream of the Return Connection to the AC Unit.
4. Provide Crosses With Plugged Outlets at 21'-0" Intervals in Industrial Area Compressed Air Loop
5. Acoustical Sound Lining Shall be Applied to the Branch Duct for Each Exhaust Register in Toilet Rooms. Maximum Length Required - 10'-0" Each Branch.
6. For Plumbing in Toilet Rooms No. 1 & 2, See Drawing M-6.
7. For Diagram of Air Compressor Station, See Drawing M-6.
8. Drain From EWC Shall be Piped to Storm Drain.
9. See Detail M-7D for Typical Duct Connection to AC. Units: AC-5/D, 6/D, & 7/D.
10. See Detail M-7E for Typical Return Grille Connection.
11. Duct Sizes Shown on Drawings are Net Inside Dimensions. Where Sound Absorbing Lining is Provided, Duct Sizes Shall be Increased to Provide the Indicated Net Free Area



DETAIL - M3C/M3

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

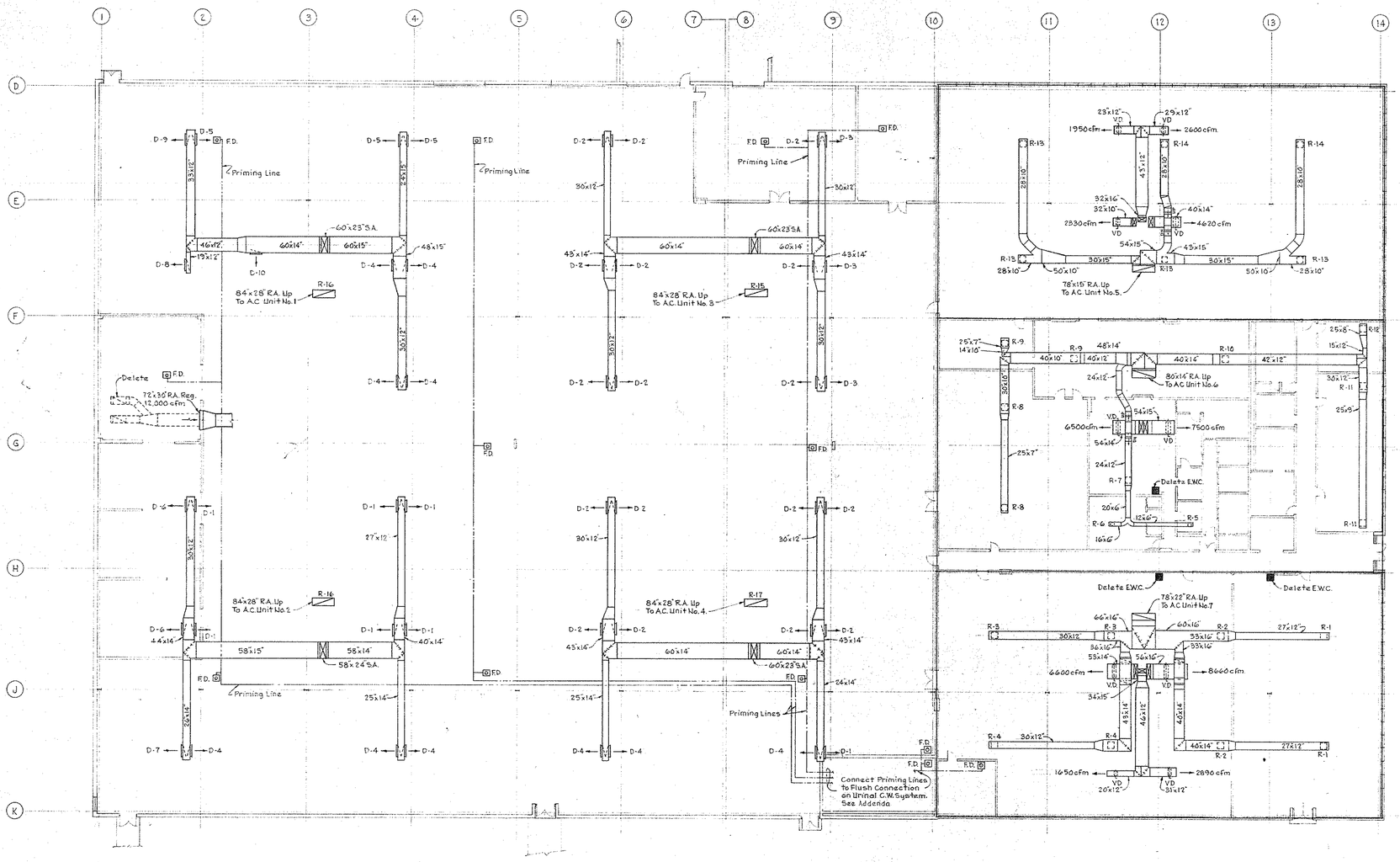
7-1-70	As Built Drawing	
△ 1-20-69	M-3 Revised Painting & Cleaning Areas, added piping, & general changes	

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

MECHANICAL - DEPOT BUILDING
HVAC, PLUMBING

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: [illegible] DATE: 1-20-69

DRAWN BY GS	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY JW	B.F.E.C.	SHEET NO. M-3 OF 32



PLAN - DEPOT BLDG.

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

7-1-70	As Built Drawing

THIS SHEET IS AN OVERLAY FOR SHEET M-3

THE BENDIX FIELD ENGINEERING CORPORATION

OFFICE AND DEPOT BUILDINGS

COLUMBIA, MARYLAND

SUPPLEMENTARY DRAWING
MECHANICAL - DEPOT BUILDING
HVAC, PLUMBING

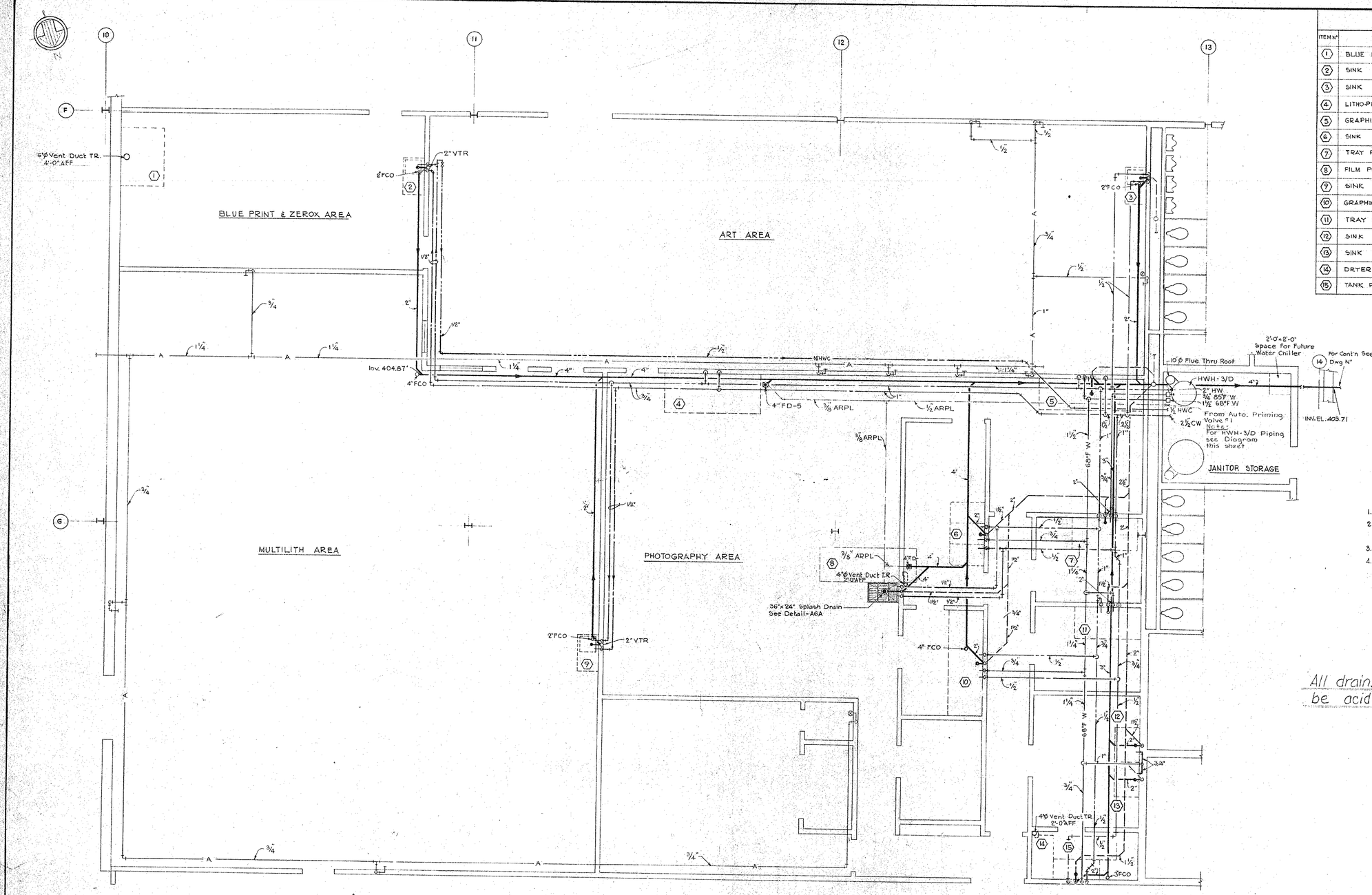
WHITMAN, REQUARDT AND ASSOCIATES

CONSULTING ENGINEERS BY C. L. Millard

BALTIMORE, MARYLAND DATE: 2-21-69

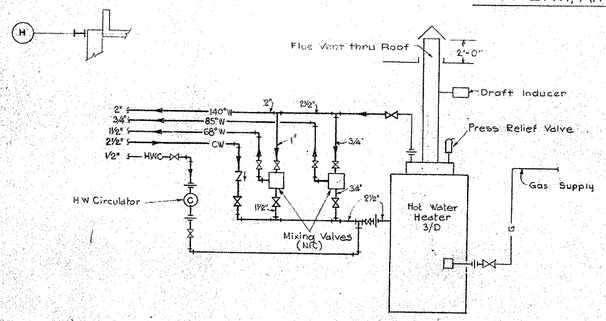
DRAWN BY WVH	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY FHT	B.F.E.C.	SHEET NO. M-3A OF 32

Fred H. Touchton



△ MULTILITH, ART & PHOTOGRAPHY AREAS – PLAN

Scale 1/4"=1'-0"



MULTILITH ART & PHOTO HOT WATER HEATER DIAGRAM

No Scale

EQUIPMENT SCHEDULE

Equipment noted N.I.C. to be furnished & installed by Owner - See Note 2.

ITEM N°	EQUIPMENT		CW	HW	TEM.W	F.D.	WASTE	REMARKS
1	BLUE PRINT MACHINE	(N.I.C.)						EXH. VENT
2	SINK	(N.I.C.)	1/2"	1/2"			1 1/2"	
3	SINK	(N.I.C.)	1/2"	1/2"			1 1/2"	
4	LITHO-PLATE PROCESSOR	(N.I.C.)	1/2"	1/2"				
5	GRAPHIC ART SINK	(N.I.C.)	1/2"	1/2"	3/4"		1 1/2"	
6	SINK	(N.I.C.)	1/2"	1/2"	3/4"		1 1/2"	
7	TRAY PROCESSING SINK	(N.I.C.)	1/2"	1/2"	3/4"		1 1/2"	
8	FILM PROCESSOR	(N.I.C.)	1/2"	1/2"				EXH. VENT
9	SINK	(N.I.C.)	1/2"	1/2"			1 1/2"	
10	GRAPHIC ART SINK	(N.I.C.)	1/2"	1/2"	3/4"		1 1/2"	
11	TRAY PROCESSING SINK	(N.I.C.)	1/2"	1/2"	3/4"		1 1/2"	
12	SINK	(NIC)			3/4"		1 1/2"	
13	SINK	(NIC)			3/4"		1 1/2"	
14	DRYER	(NIC)						EXH. VENT
15	TANK PROCESSING SINK	(NIC)	1/2"	1/2"	3/4"		1 1/2"	

DRAWING NOTES

1. See Dwg. M-1 for General Notes & Legend.
2. See Equipment Schedule above for equipment to be furnished and installed by Owner. Contractor shall provide rough-in as indicated, with shutoff valves and plugged or capped connections.
3. For Water Heater capacity - see Schedule - Dwg. M-7.
4. See Specifications for acid-resistant drains & vents. Priming lines for traps shall be approved pressure-type polypropylene or PVC.

All drains & vents on this sheet shall be acid-resistant.

7-1-70	As Built Drawing
△ 1-20-69	Revised piping, added air piping, general changes.

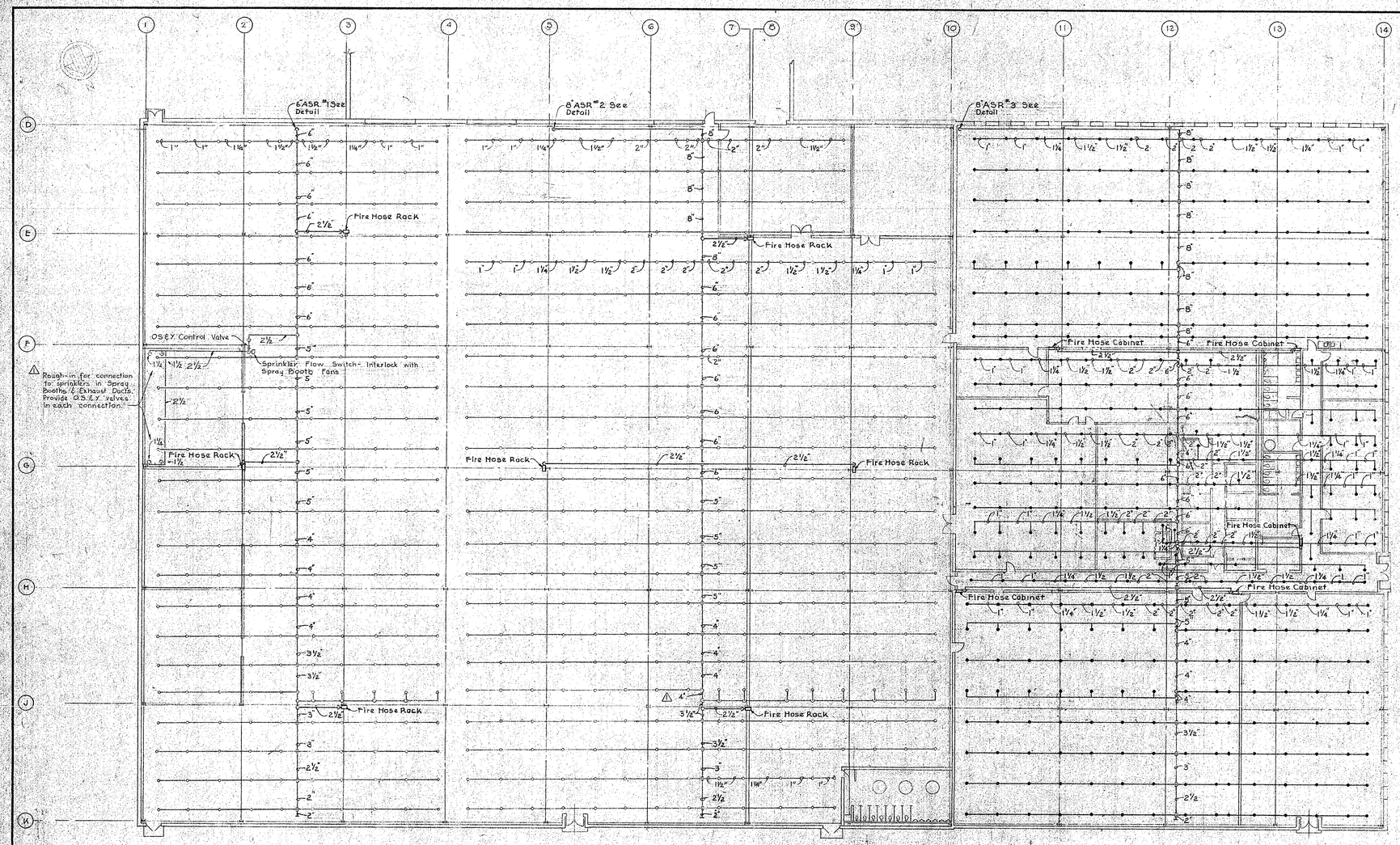
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

MECHANICAL-DEPOT BUILDING
MULTILITH, ART & PHOTOGRAPHY AREAS, PLUMBING

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS BY C. L. Millard
BALTIMORE, MARYLAND DATE 1-20-69

DRAWN BY GB	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY JW	B.F.E.C.	SHEET NO. M-4 OF 32

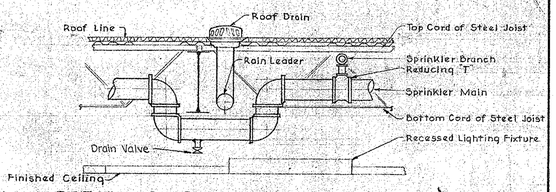
Fred H. Foucher



PLAN - FIRE PROTECTION - OPER. BUILDING

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

CGB 3-22-89
DWG. No. M-5



DETAIL OF SPRINKLER MAIN OFFSET

Scale 1/2" = 1'-0"

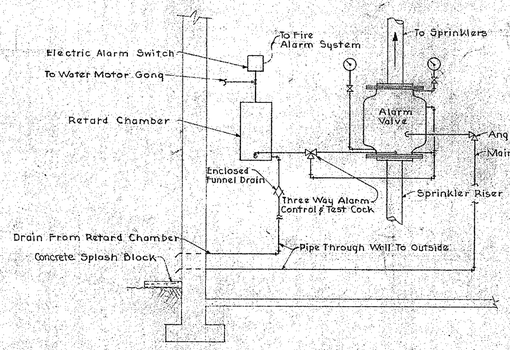


DIAGRAM OF ALARM CHECK VALVE

No Scale

NOTE: For "as built" Sprinkler System" see approved "shop drawings" as prepared by "GRINNELL COMPANY, INC."

DRAWING NOTES

1. See Dwg. M-1 for General Notes & Legend.
2. For Outside Protection and Water Supply - see Dwg. C-3.
3. For water flow alarm interlocks with Fire Alarm System - see Electrical Drawings.

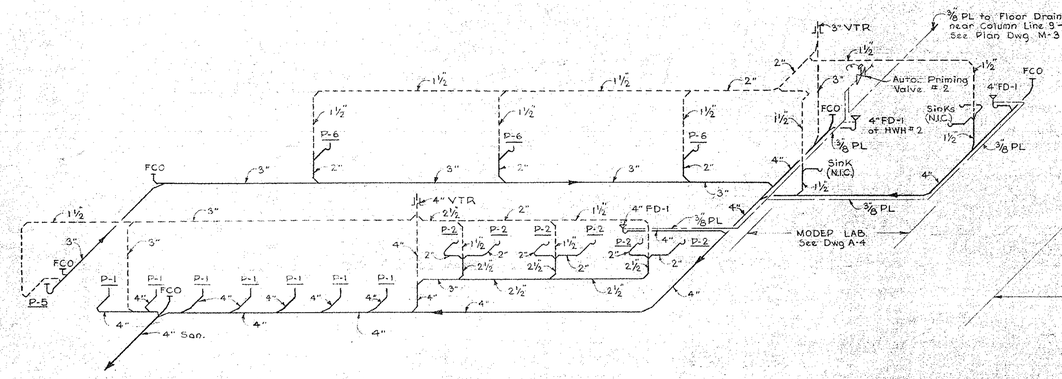
7-1-70	As Built Drawing
1-20-69	Added piping for spray booths, added pipe size.

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

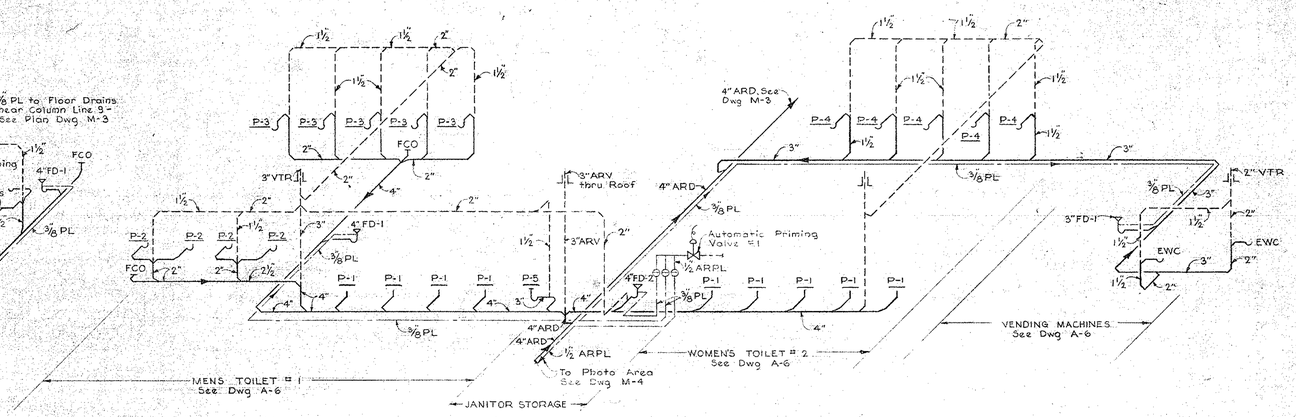
MECHANICAL-DEPOT BUILDING
FIRE PROTECTION

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: — DATE: 1-20-69

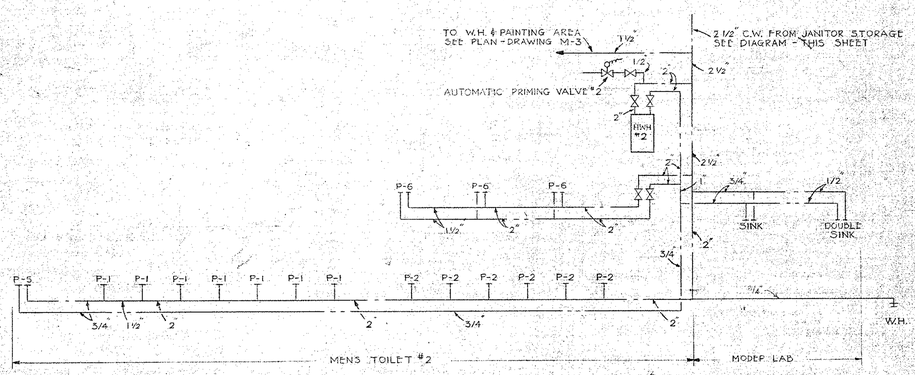
DRAWN BY: RS	APPROVED BY:	CONSTRUCTION PROJECT NUMBER: CST 67-11
CHECKED BY: JW	B.F.E.C.	SHEET NO. M-5 OF 32



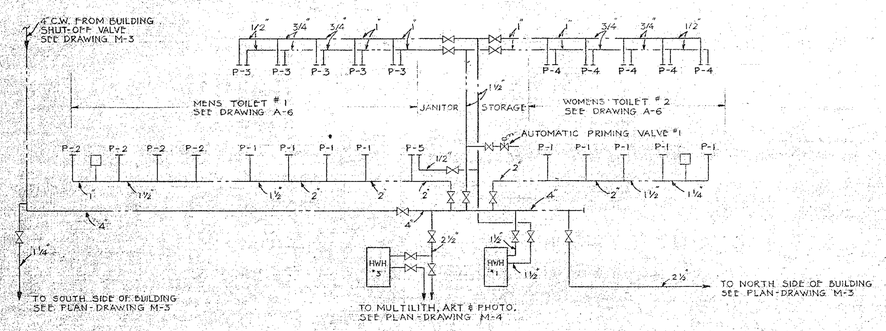
SANITARY PIPING DIAGRAM
MEN'S TOILET # 2
No Scale



SANITARY PIPING DIAGRAM
MENS TOILET #1, JANITOR STORAGE, WOMEN'S TOILET # 2 & VENDING MACHINES
No Scale

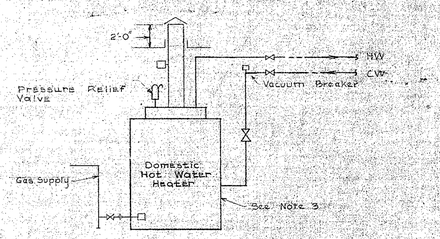


WATER PIPING DIAGRAM
MENS TOILET #2 & MODEP LAB.
No. Scale

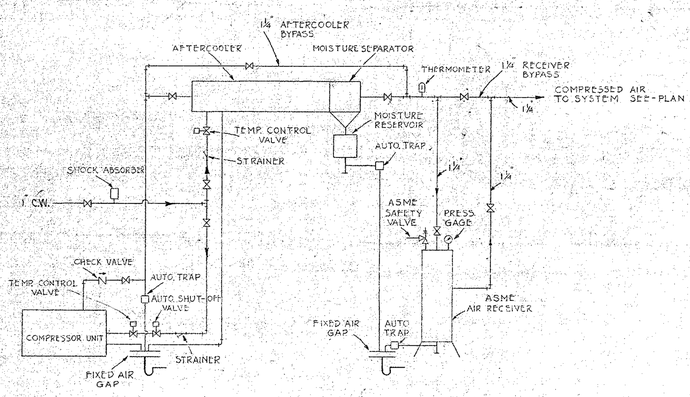


WATER PIPING DIAGRAM
MENS TOILET #1 & WOMEN TOILET #2 & MAIN DISTRIBUTION
NO SCALE

PLUMBING FIXTURE SCHEDULE				
No	FIXTURE	CW	HW	W
P-1	WATER CLOSET	1 1/4"	-	4"
P-2	URINAL	1"	-	2"
P-3	LAVATORY	1/2"	1/2"	1 1/2"
P-4	LAVATORY	1/2"	1/2"	1 1/2"
P-5	MOP CEPTOR	1/2"	1/2"	3"
P-6	CIRCULAR WASH FOUNTAIN	1"	1"	2"
FD	FLOOR DRAIN	1/2"	-	4"



HOT WATER HEATER DIAGRAM
No Scale



AIR COMPRESSOR DIAGRAM
No Scale

DRAWING NOTES

1. See Dwg. M-1 for GENERAL NOTES & LEGEND
2. For Hot Water Heater Capacity - See Schedule Dwg. M-7.
3. See Schedule - Sheet M-7 for Heater Capacities and Gas Supply.

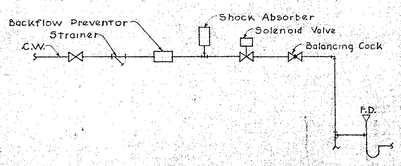


DIAGRAM OF TRAP PRIMING SYSTEMS
No Scale

7-1-70	As Built Drawings
1-20-69	Revised piping diagrams & details

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

MECHANICAL-DEPOT BUILDING
RISER DIAGRAMS, DETAILS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY — DATE: 1-20-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
GS		CST 67-11
CHECKED BY JW	B.F.E.C.	SHEET NO. M-6 OF 32

△ H.V.A.C. UNIT SCHEDULE

	AC UNIT No	SUPPLY FAN CFM	SUPPLY FAN SP	SUPPLY FAN RPM	SUPPLY FAN HP	RETURN FAN CFM	RETURN FAN SP	RETURN FAN RPM	RETURN FAN HP	TOTAL AIR CFM	COOLING MIN FA APPROX	COOLING MAX CFM	DESIGN EAT DB °F	DESIGN EAT WB °F	DESIGN LAT DB °F	DESIGN LAT WB °F	TOTAL LOAD MBH	TOTAL LOAD TONS	REFRIG TEMP °F	COIL SQ FT	COIL ROWS	COIL FPI	HEATING MAX CFM	HEATING DESIGN EAT °F	HEATING TEMP RISE	HEATING TOTAL LOAD MBH
OFF. BLDG.	AC-1/O	10400	1.8	780	7.5	6900	0.6	600	2	10400	30%	10400	81.3	67.4	50.6	50.3	519.3	43.2	43.4	25.65	8	10	10400	58.1	30.4	342.1
	AC-2/O	14000	2.0	830	10	12100	0.9	580	5	14000	10%	14000	77.3	63.4	52.7	51.3	446.4	37.3	40.0	30.85	6	8	14000	70.3	17.9	271.3
	AC-3/O	14000	2.1	850	10	13200	1.0	610	5	14000	10%	14000	77.4	63.5	52.2	51.2	444.5	37.0	42.5	30.85	6	10	14000	70.9	17.4	263.8
	AC-4/O	11500	1.6	780	7.5	10325	0.7	510	3	11500	10%	11500	78.2	64.4	51.2	50.2	410.8	34.2	43.4	25.65	6	10	11500	69.2	19.5	242.6
	AC-5/O	11500	1.8	780	7.5	9620	1.0	550	3	11500	10%	11500	78.1	64.3	51.1	50.1	434.4	36.2	41.6	25.65	6	10	11500	69.1	21.8	270.8
DEPOT BLDG.	AC-1/D	15400	2.0	840	10	15400	0.5	520	5	15400	25%	15400	81.0	67.2	54.0	52.6	520.6	43.4	44.6	30.85	6	8	15400	59.4	29.2	379.0
	AC 2/D	15400	2.0	840	10	15400	0.5	520	5	15400	25%	15400	81.0	67.2	54.0	52.6	520.6	43.4	44.6	30.85	6	8	15400	59.4	29.2	379.0
	AC-3/D	15400	2.0	840	10	13600	0.5	520	5	15400	25%	15400	81.0	67.2	54.0	52.6	520.6	43.4	44.6	30.85	6	8	15400	59.4	29.2	379.0
	AC-4/D	15400	2.0	840	10	14240	0.5	520	5	15400	25%	15400	81.0	67.2	54.0	52.6	520.6	43.4	44.6	30.85	6	8	15400	59.4	29.2	379.0
	AC-5/D	11500	1.75	770	7.5	11500	0.8	550	5	11500	10%	11500	78.1	64.3	48.8	47.8	451.6	37.6	40.5	25.65	6	10	11500	68.7	20.8	257.9
	AC-6/D	14000	2.0	830	10	10585	0.8	550	5	14000	10%	14000	77.8	63.8	53.2	51.8	365.6	30.4	42.9	25.65	6	8	14000	70.0	18.5	230.1
	(2) AC-7/D	19800	2.1	910	15	19800	0.75	660	10	19800	5%	19800	77.1	63.2	52.4	51.9	598.6	50.0	44.8	30.85	8	8	19800	72.7	10.7	228.6
	HV-1/O	17800 / 12000	1.2	630	10	—	—	—	—	17800	15% (1)	—	—	—	—	—	—	—	—	—	—	—	17800	12.0	58.0	1117.0
	HV-1/D	17800 / 12000	2.0	825	7.5					12000	—	—	—	—	—	—	—	—	—	—	—	—	12000	12.0	58.0	752.0

(1) MIN. OUTSIDE AIR AT LOW SPEED

(2) PROVIDE BAG-TYPE FILTERS ON AC-7/D. SEE SPECIFICATIONS

EXHAUST FAN SCHEDULE

	FAN No	TYPE[b]	CFM	S.P.	RPM	HP	SERVICE
OFFICE BLDG.	RV-1/O	A	600	0.5	690	0.25	DISHWASHER HOOD
	RV-2/O	A	1300	0.5	645	0.33	SHORT ORDER HOOD
	RV-3/O	A	15700	0.5	485	3.0	KITCHEN HOOD
	RV-4/O	A	2200	0.75	625	1.0	GENERAL KITCHEN
	RV-5/O	A	2590	0.5	850	0.75	T.R. No.1 & VICINITY
	RV-6/O	A	3015	0.375	855	0.75	T.R. No.2 & VICINITY
	RV-7/O	A	1100	0.50	655	0.25	CONFERENCE ROOM EXHAUST
	E-1/O	B	3100	0.25	1725	0.5	REFRIG. & FREEZER VENTILATION
	E-2/O	C	50	—	—	—	T.R. No. 4 CEILING EXHAUSTER
DEPOT BLDG.	RV-1/D	A	1800	0.125	790	0.33	ELECTRICAL ROOM
	RV-2/D	A	1160	0.375	1080	0.25	T.R. No. 2
	RV-3/D	A	840	0.125	590	0.25	BLUE PRINT EXHAUST
	RV-4/D	A	1555	0.25	1185	0.33	ART EXHAUST HOOD
	RV-5/D	A	1805	0.375	715	0.50	PHOTO. LAB.
	RV-6/D	A	1510	0.500	750	0.33	T.R. No.1 & VICINITY
	E-1/D[a]	—	12000	—	—	5.00	MAIN PAINT SPRAY BOOTH
	E-2/D	B	9000	0.125	855	0.75	CLEANING ROOM EXHAUST
	E-3/D[a]	—	8000	—	—	—	AUX. PAINT SPRAY BOOTH

[a] FURNISHED & INSTALLED BY OWNER

[b] TYPE A-ROOF VENTILATOR
B-PROPELLOR
C-CEILING EXHAUSTER

△ MULTIZONE DAMPER SCHEDULE

	UNIT No.	L	LC	C	RC	R	TOTAL ZONES
OFFICE	AC-2/O	4	—	2	—	4	10
	AC-3/O	3	3	—	3	3	12
	AC-4/O	3	2	—	4	3	12
	AC-5/O	3	4	—	2	3	12
DEPOT	AC-5/D	2	4	—	2	2	10
	AC-6/D	3		4		3	10
	AC-7/D	4	2	—	3	3	12

L-LEFT, LC-LEFT CENTER, C-CENTER
R-RIGHT, RC-RIGHT CENTER
DIRECTION AS ORIENTED ON PLAN

GAS PRESSURE REGULATOR SCHEDULE

No.	INLET PRESSURE, PSI	OUTLET PRESSURE, IN. H_2O	CFM
1	5	15	5110
2	5	15	4680
3	5	15	3940

△ WATER HEATER SCHEDULE

	HTR No	DELIVERY CAP-GPH	RECOVERY TEMP RANGE	RECOVERY RATE-GPH	STORAGE CAP-GALS	APPROX TANK SIZE	MAX. INPUT MBH	GAS SUPPLY	REMARKS
OFFICE	HWH-1/O	106	100	50	70	24" φ X 66"	60	3/4" GAS	PROVIDE HW CIRCULATOR
	HWH-2/O	106	100	50	70	24" φ X 66"	60	3/4" GAS	———
	HWH-3/O	472	100	420	65	28" φ X 73"	500	1½" GAS	PROVIDE HW CIRCULATOR
DEPOT	HWH-1/D	362	100	302	75	28" φ X 72"	360	1¼" GAS	———
	HWH-2/D	106	100	50	70	24" φ X 66"	60	3/4" GAS	———
	HWH-3/D	652	100	600	65	28" φ X 73"	714	1½" GAS	PROVIDE HW CIRCULATOR
	HWH-4/D	106	100	50	70	24" φ X 66"	60	3/4" GAS	———

OFFICE BUILDING △

AIR CONTROL DEVICES

	DIFFUSER No	FACE SIZE IN	NECK SIZE IN	TYPE[a]	THROW PATTERN	CFM
OFFICE BUILDING	D-1	—	12 X 6	3	—	310
	D-2	—	12 X 6	3	—	390
	D-3	—	12 X 6	3	—	420
	D-4	—	12 X 8	3	—	450
	D-5	—	12 X 8	3	—	470
	D-6	—	12 X 6	3	—	415
	D-7	—	12 X 8	3	—	440
	D-8	—	12 X 6	3	—	460
	D-9	—	12 X 8	3	—	485
	D-10	—	12 X 8	3	—	475
	D-11	—	12 X 10	3	—	670
	D-12	—	12 X 10	3	—	655
	D-13	—	12 X 10	3	—	650
	D-14	—	12 X 12	3	—	975
	D-15	—	14 X 12	3	—	975
	D-16	—	12 X 8	3	—	480
	D-17	—	12 X 8	3	—	475
	D-18	—	16 X 14	3	—	1510
	D-19	—	14 X 12	3	—	995
	D-20	—	14 X 12	3	—	1050
	D-21	—	14 X 12	3	—	970
	D-22	—	18 X 18	2	2 WAY	250
	D-23	—	18 X 18	2	1 WAY	250
	D-24	—	18 X 18	2	3 WAY	600
	D-25	—	14 X 14	3	—	1200
	D-26	—	14 X 14	3	—	1270
	D-27	—	12 X 6	3	—	300
	R-1	24 X 18	—	5	RETURN	65
	R-2	24 X 18	—	5	RETURN	550
	R-3	24 X 18	—	5	RETURN	100
	R-4	24 X 18	—	5	RETURN	240
	R-5	24 X 18	—	5	RETURN	250
	R-6	24 X 18	—	5	RETURN	290
	R-7	24 X 18	—	5	RETURN	300
	R-8	24 X 24	—	5	RETURN	320
	R-9	24 X 24	—	5	RETURN	655
	R-10	24 X 24	—	5	RETURN	1255
	R-11	24 X 24	—	5	RETURN	350
	R-12	24 X 24	—	5	RETURN	1190
	R-13	24 X 18	—	5	RETURN	370
	R-14	24 X 18	—	5	RETURN	400
	R-15	24 X 24	—	5	RETURN	500
	R-16	24 X 18	—	5	RETURN	520
	R-17	24 X 24	—	5	RETURN	560
	R-18	24 X 24	—	5	RETURN	630
	R-19	24 X 18	—	5	RETURN	970
	R-20	24 X 18	—	5	RETURN	820
	R-21	24 X 12	—	5	RETURN	1510
	R-22	24 X 24	—	5	RETURN	1550
	R-23	24 X 24	—	5	RETURN	2815
	R-24	24 X 24	—	5	RETURN	1705
	R-25	24 X 24	—	5	RETURN	350
	R-26	24 X 24	—	5	RETURN	1480
	R-27	24 X 24	—	5	RETURN	1050
	E-13	—	10 X 10	5	EXHAUST	550

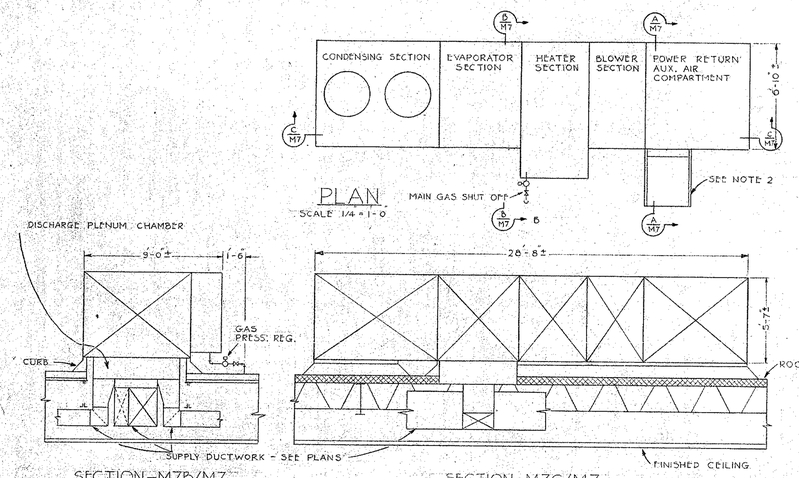
SEE SPECIFICATION

AIR CONTROL DEVICES

	DIFFUSER No	FACE SIZE IN	NECK SIZE IN	TYPE[a]	THROW PATTERN	CFM
OFFICE BUILDING	E-1	—	22 X 22	5	EXHAUST	780
	E-2	—	10 X 10	5	EXHAUST	655
	E-3	—	10 X 10	5	EXHAUST	500
	E-4	—	10 X 10	5	EXHAUST	305
	E-5	—	10 X 10	5	EXHAUST	680
	E-6	—	16 X 16	5	EXHAUST	1350
	E-7	—	28 X 22	5	EXHAUST	50
	E-8	—	22 X 22	5	EXHAUST	220
	E-9	—	22 X 22	5	EXHAUST	350
	E-10	—	22 X 22	5	EXHAUST	340
	E-11	—	22 X 22	5	EXHAUST	300
	E-12	—	10 X 10	5	EXHAUST	600
DEPOT BUILDING △						
DEPOT BUILDING	D-1	—	10 X 10	3	—	1550
	D-2	—	14 X 14	3	—	1240
	D-3	—	14 X 14	3	—	1230
	D-4	—	14 X 12	3	—	1100
	D-5	—	12 X 12	3	—	625
	D-6	—	12 X 12	3	—	850
	D-7	—	12 X 10	3	—	730
	D-8	—	12 X 10	3	—	740
	D-9	—	14 X 12	3	—	1125
	D-10	—	12 X 10	3	—	650
	D-11	—	10 X 8	3	—	380
	D-12	—	10 X 8	3	—	400
	D-13	—	12 X 12	3	—	770
	D-14	—	12 X 12	3	—	760
	D-15	—	18 φ	1	—	1600
	D-16	—	18 φ	1	—	1410
	D-17	—	18 φ	1	—	1410
	D-18	—	18 φ	1	—	1540
	D-19	—	18 φ	1	—	1340
	D-20	—	18 φ	1	—	1420
	D-21	—	18 φ	1	—	1180
	D-22	—	18 φ	1	—	1460
	D-23	—	18 φ	1	—	1280
	D-24	—	18 φ	2	—	1140
	D-25	32 X 32	30 X 30	2	3 WAY	2000
	D-26	32 X 32	30 X 30	2	4 WAY	2000
	R-1	24 X 24	—	5	RETURN	2340
	R-2	24 X 24	—	5	RETURN	2335
	R-3	24 X 24	—	5	RETURN	2600
	R-4	24 X 24	—	5	RETURN	2615
	R-5	12 X 12	—	5	RETURN	125
	R-6	12 X 12	—	5	RETURN	405
	R-7	24 X 24	—	5	RETURN	1490
	R-8	24 X 24	—	5	RETURN	1010
	R-9	24 X 24	—	5	RETURN	840
	R-10	24 X 24	—	5	RETURN	715
	R-11	24 X 24	—	5	RETURN	1370
	R-12	24 X 24	—	5	RETURN	1150
	R-13	24 X 24	—	5	RETURN	1900
	R-14	24 X 24	—	5	RETURN	1925
	R-15	—	84 X 28	6	RETURN	13600

AIR CONTROL DEVICES

	DIFFUSER No	FACE SIZE IN	NECK SIZE IN	TYPE[a]	THROW PATTERN	CFM
DEPOT BUILDING	R-16	—	84 X 28	6	RETURN	15400
	R-17	—	84 X 28	6	RETURN	14240
	R-18	48 X 24	—	5	RETURN	6000
	E-1	—	10 X 10	5	EXHAUST	260
	E-2	—	10 X 10	5	EXHAUST	360
	E-3	—	10 X 10	5	EXHAUST	310
	E-4	—	10 X 10	5	EXHAUST	140
	E-5	—	10 X 10	5	EXHAUST	50
	E-6	—	10 X 10	5	EXHAUST	530
	E-7	—	10 X 10	5	EXHAUST	140
	E-8	—	10 X 10	5	EXHAUST	240
	E-9	—	10 X 10	5	EXHAUST	200
	E-10	—	10 X 10	5	EXHAUST	355
	E-11	—	10 X 10	5	EXHAUST	260
	E-12	—	18 X 18	5	EXHAUST	300
	E-13	—	10 X 10	5	EXHAUST	640
	E-14	—	10 X 10	5	EXHAUST	580
	E-15	—	10 X 10	5	EXHAUST	580
OFFICE BUILDING						
	D-28	—	16 X 18	2	2-WAY	200
	R-28	24 X 48	—	5	RETURN	6000



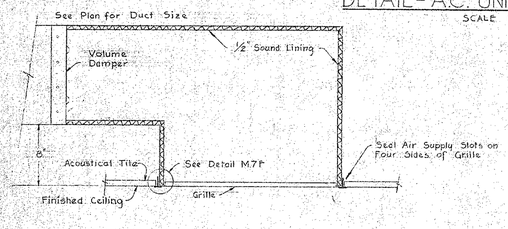
PLAN
SCALE 1/4 = 1'-0

SECTION-M7B/M7
SCALE 1/4 = 1'-0

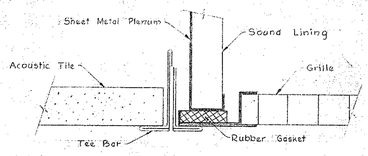
SECTION-M7C/M7
SCALE 1/4 = 1'-0

SECTION-M7A/M7
SCALE 1/4 = 1'-0

DETAIL-A.C. UNIT-M7D/M1, M3
SCALE 1/4 = 1'-0



DETAIL-RETURN GRILLE-M7E/M1, M3
SCALE 1½ = 1'-0



DETAIL-M7F/M7
SCALE FULL SIZE

DRAWING NOTES

1- SEE SHEET M-1 FOR GENERAL NOTES AND LEGEND

2- PROVIDE SHEET METAL DEFLECTOR AT RELIEF OPENING AS SHOWN ON AC-1/O ONLY. FINISH SAME AS UNIT

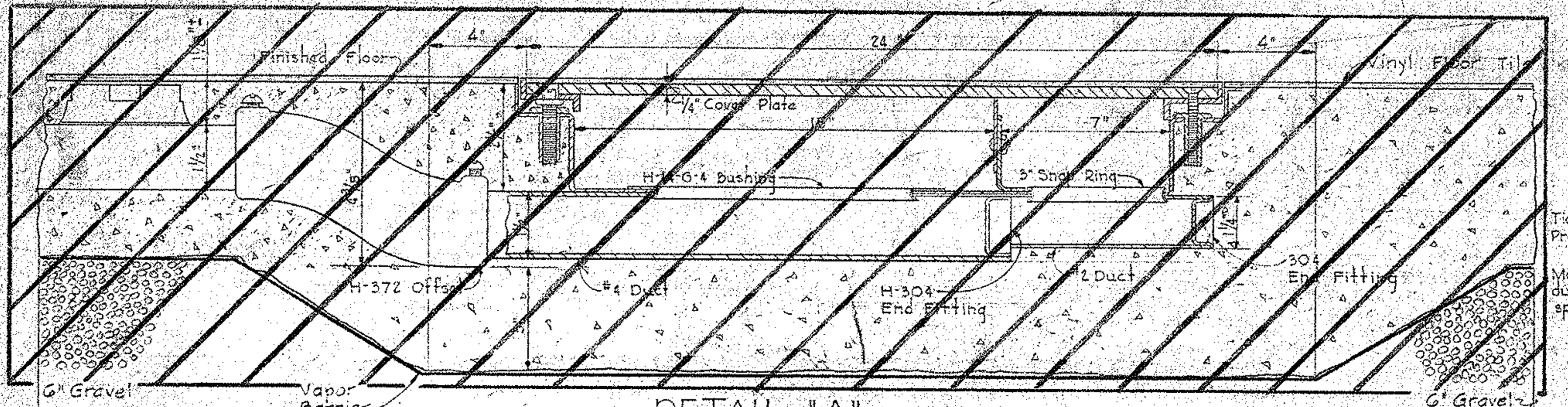
7-1-70	As Built Drawing
△ 1-20-69	Rev sizes of air control devices, added misc. info.

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

MECHANICAL-OFFICE & DEPOT BUILDINGS
DETAILS, DIAGRAMS, & SCHEDULES

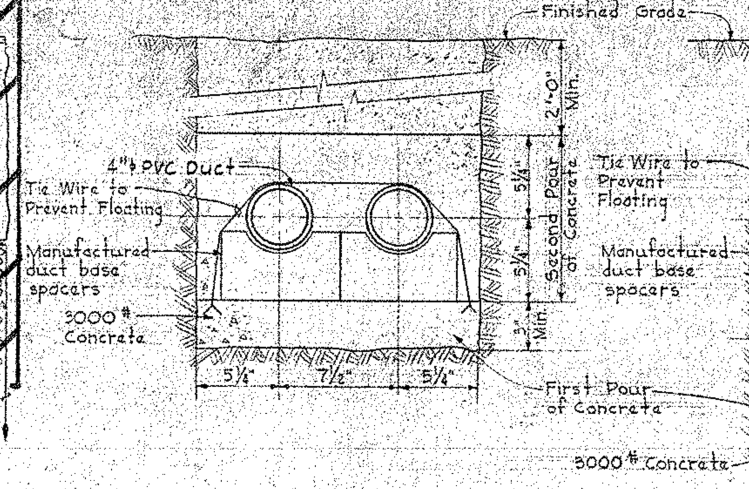
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: — DATE: 1-20-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
MZ		CST 67-11
CHECKED BY JW	B.F.E.C.	SHEET NO. M-7 OF 32



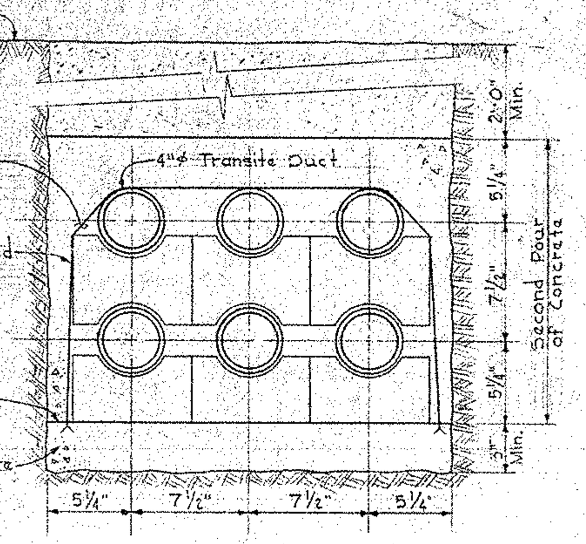
DETAIL "A"

Trenchduct & Underfloor Distribution System Connection
No Scale
△ Delete Trench Header See Dwg. E-8 For New Two Level Duct System



DETAIL "B"

2-Way Ductbank
No Scale
△ Revision - Changed Transite Duct To PVC



DETAIL "C"

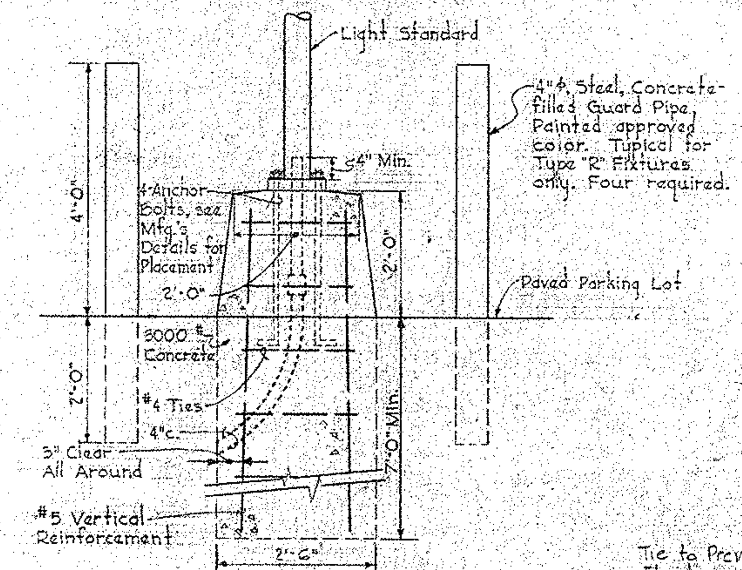
6-Way Ductbank
No Scale

GENERAL NOTES

1. All Wire Shall Be Number 12 AWG. Unless Otherwise Noted.
2. All Conduits Shall Be ¾" Unless Otherwise Noted.
3. Verify All Door Locations & Swing On Arch. Drawings Before Installing Switches.
4. For Schedules Of Panelboards, See Specifications.
5. Fluorescent Lighting Fixtures 2Ft.x4Ft. Are Type "A" Unless Otherwise Noted.
6. Install Power Outlets Of Types Indicated On Underfloor Ducts At Locations Shown Or Directed. Install Conductors In Trench Headers & Underfloor Ducts And Connect Outlets To The Branch Circuits Indicated. Install Telephone Outlets On Underfloor Ducts At Locations Shown Or Directed. Confirm Locations Of All Outlets On Underfloor Duct With Owner Before Installation.
7. See Riser Diagram For Number Of Conductors Associated With The Fire Alarm System.
8. From All Flush Lighting, Power, Telephone & Relay Cabinets, Extend 4 Additional 1" Conduits Up The Wall And Out Into A Junction Box In An Accessible Space. In Spaces Having Ceilings, The Junction Box Shall Be Above The Ceiling; In Spaces Without Ceiling, The Junction Box Shall Be Not Less Than 9 Feet Above The Finished Floor.
9. All Homeruns Indicated From Telephone Outlets To Telephone Cabinets or Closets Shall Be 1 Inch Conduit Unless Otherwise Indicated.

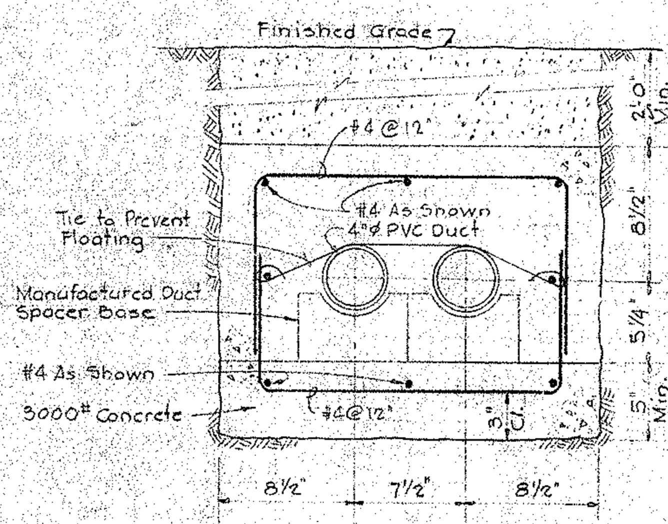
LEGEND

- Outlet · Incandescent · Surface Mounted · Explosion Proof Where Indicated
- Outlet · Fluorescent · 14"x 4'
- Outlet · Fluorescent · 2'x 4'
- Outlet · Fluorescent · 4'x 4'
- Outlet · Fluorescent · 18"x 8'
- Outlet · Night Light
- Outlet · Fluorescent · Wall Mounted · 2 Foot
- Outlet · Fluorescent · Wall Mounted · 4 Foot
- Outlet · Exit Light · Ceiling or Wall Mounted · With or Without Arrows
- Receptacle · 15A · 3W · 2P · 250V · Grounding Type · M.H. As Noted
- Receptacle · Floor Mounted
- Receptacle · Single Convenience · Explosion Proof Where Indicated · M.H. - 18"
- Receptacle · Convenience · Duplex · Double Duplex · Explosion Proof Where Indicated · M.H. - 18"
- Receptacle · 30A. · 3W. · 3P. · 125/250V. · M.H. - 18"
- Receptacle · 30A. · 3W · 2P · 250V. · Twistlock · M.H. - 18"
- S S3 SEXP Switch · Single Pole · Three Way · Explosion Proof Where Indicated
- SD Switch · Dimmer
- SRC Switch · Remote Control
- SP Switch · With Pilot Light
- Panel · Power
- Panel · Lighting
- Panel · Heating
- Cabinet · Remote Control Relay
- Cabinet · Telephone
- PB Pull Box · Size As Noted
- Conduit · In or On Ceiling or Wall
- Conceal In Floor Slab
- —B— Conduit · Bell Circuit
- —FA— Conduit · Fire Alarm
- —T— Conduit · Telephone
- —E— Conduit · Emergency Circuit
- Conduit Seal
- —RC→ Homerun To Remote Control Relay Cabinet. See Appropriate SWITCH SCHEDULE For Cabinet Destination.
- Homerun To Panelboard · No. Of Arrows Indicates No. Of Circuits · No. Of Cross Lines Indicate No. Of Wires · Where No Cross Lines Appear, Two Conductors Are Implied.
- Ⓙ ⒿEXP Junction Box · Explosion Proof Where Indicated
- Ⓖ Generator
- Ⓜ Motor
- Ⓣ Thermostat
- Bell
- F Fire Alarm Station
- Fire Alarm Bell
- FA Fire Alarm Central Station
- Disconnect Switch · Fused · Unfused
- Unit Heater
- Telephone Outlet · SCAMA Network Where Indicated
- M Starter · Manual
- S Starter · Magnetic
- Starter · Combination
- CB Individually Enclosed Circuit Breaker
- C/W Ductbank · No. Of Ducts As Indicated · Power
- Underfloor Duct and Junction Box · Double System · Single and Triple Systems Are Indicated By One and Three Lines Respectively.
- Safe Light
- Battery Unit · With One Emergency Head · With Two Emergency Heads.
- Battery Unit Remote Head · Ceiling Mounted
- Pushbutton Station · One, Two or Three Pushbuttons
- —EC— Empty Conduit · ¾" Unless Otherwise Noted
- Underfloor Duct · With Power Outlet · With Telephone Outlet
- EBH 1000W Electric Baseboard Heating Section · No. of Units as required · Total Wattage as indicated.
- Ⓦ Water Flow Detector
- Receptacle · 30A · 3W · 2P · 125V · Twistlock · M.H. 18" · Weather Proof Where Indicated
- Underfloor Duct · With Conduit Stub-Up
- EWC Receptacle · Single Convenience · Electric Water Cooler
- Receptacle · Single Convenience · 30A · 3W · 2P · 250V · Grounding Type · M.H. - 18"
- Receptacle · Single Convenience · 30A · 4W · 3P · 250V · Grounding Type · M.H. - 18"
- Receptacle · Single Convenience · 20A · 4W · 3P · 250V · Grounding Type · 400~ · M.H. - 18"
- SHOA Switch · Hand/Off/Automatic
- EWH 1000W Electric Wall Heating Section · No. of Units as required · Total Wattage as indicated.
- △3 Outlet - Telephone - Floor mounted



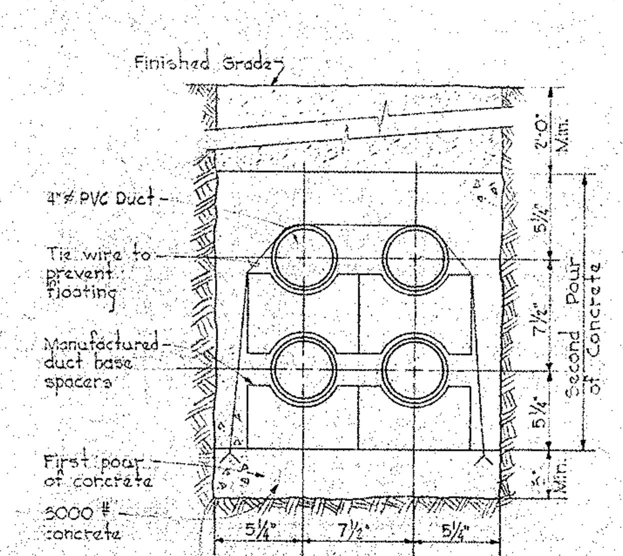
SECTION E-1A/E-1

NOTE: For pole foundations for Type "P", "P1", "Q", "S1" & "S2" fixtures, see Standard Details ES4 & ES5.



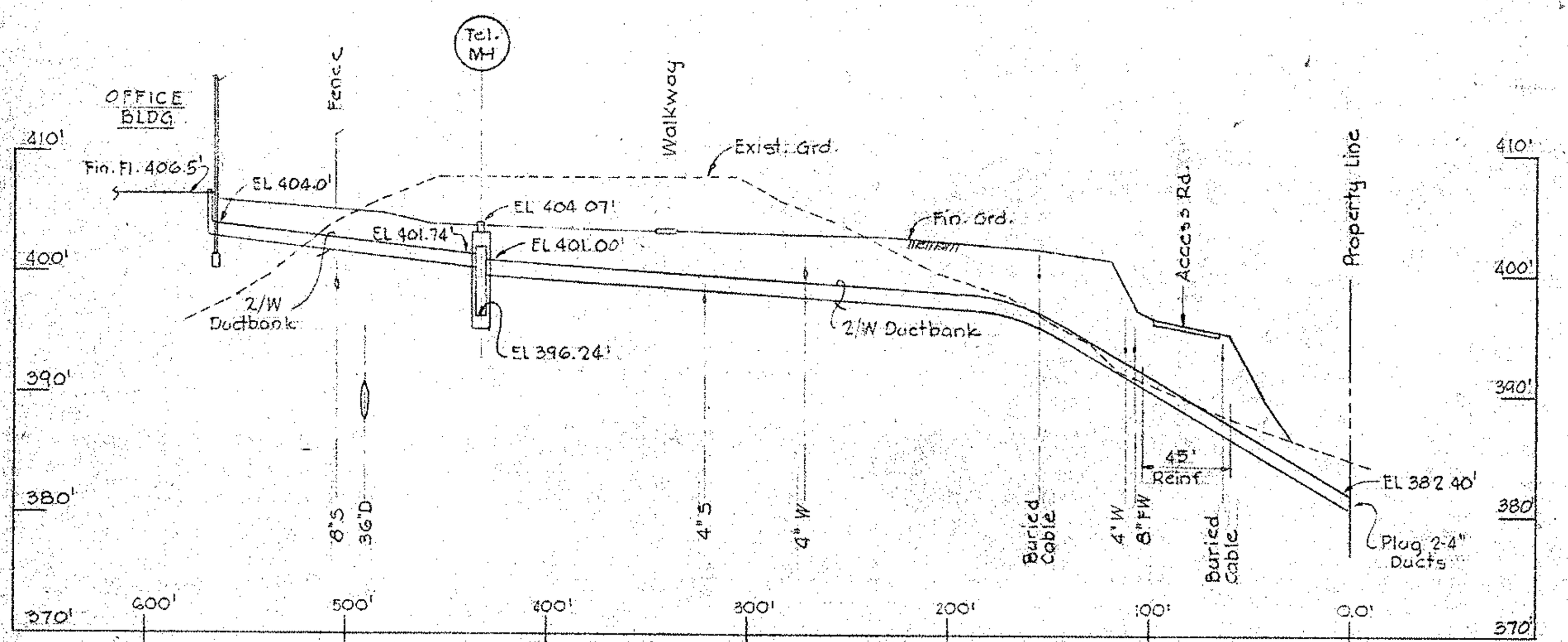
DETAIL "E"

2-Way Ductbank Reinforced
No Scale
△ Revision - Changed Transite Duct To PVC



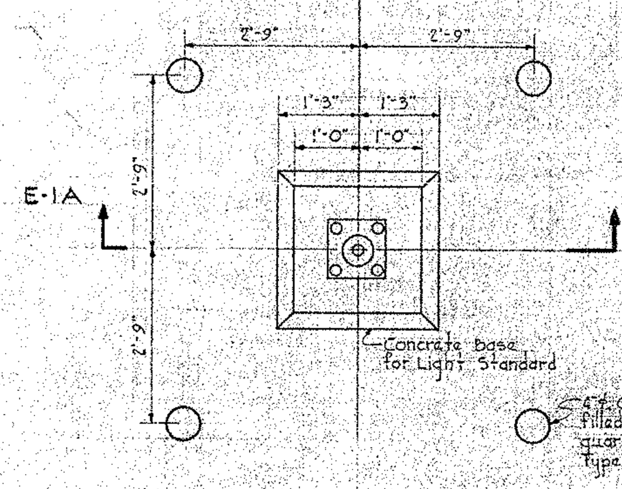
DETAIL "F"

4-Way Ductbank
No Scale
△ Revision - Changed Transite Duct To PVC



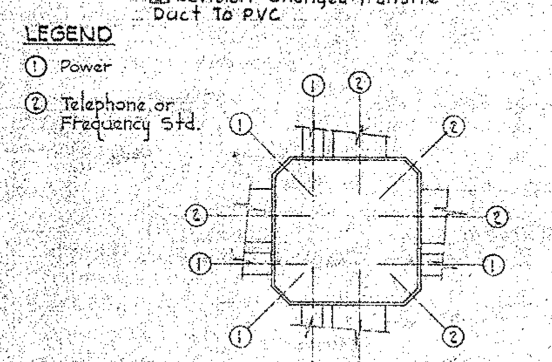
PROFILE "A"

Scale Horiz. 1"=60'
Vert. 1"=10'



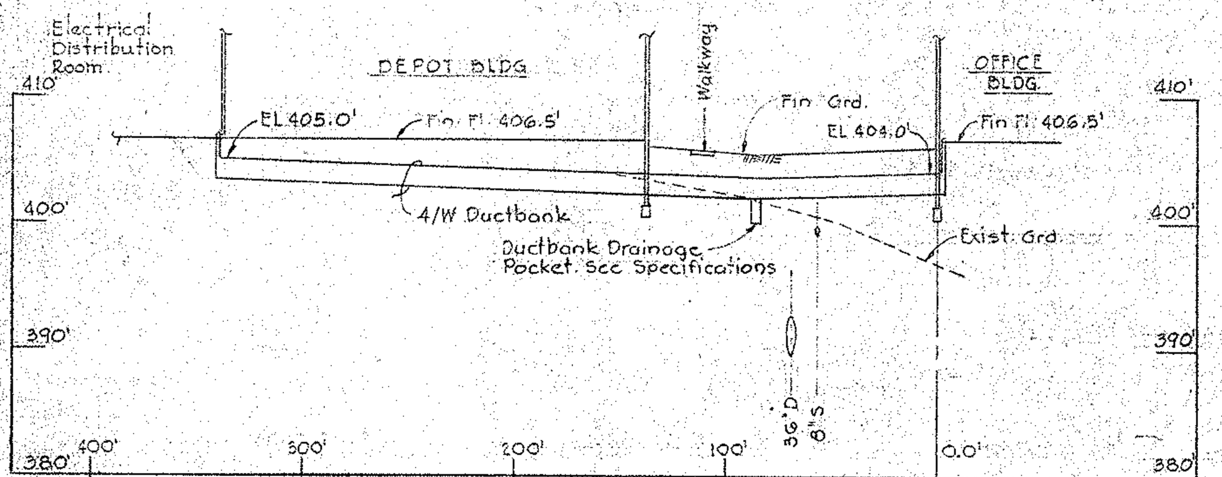
PLAN

Typical for Type "R" & "S" Fixtures
No Scale



TWO DUCT UNDERFLOOR DUCT JUNCTION BOX

No Scale



PROFILE "B"

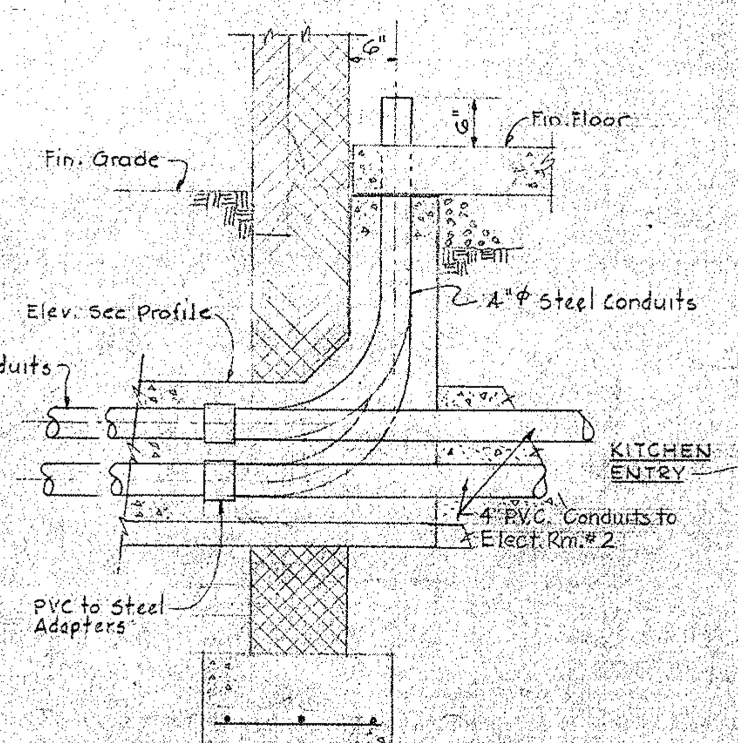
Scale Horiz. 1"=60'
Vert. 1"=10'

ANNUNCIATOR PANEL

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20

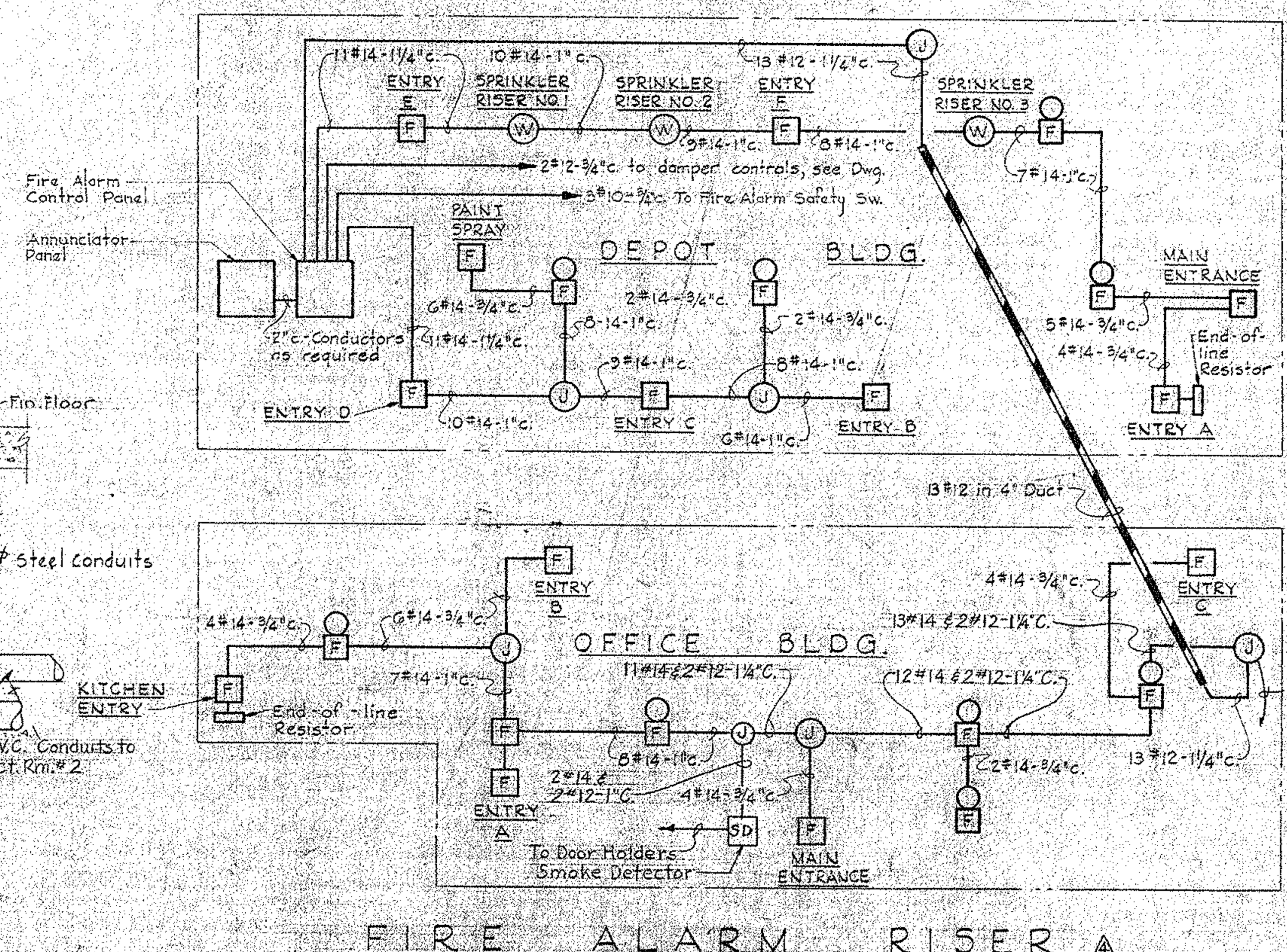
ANNUNCIATOR SCHEDULE

Position	LEGEND	Position	LEGEND
1	Depot - Main Entrance	2	Office - Main Entrance
3	Depot - Entry "A"	4	Office - Entry "A"
5	Depot - Entry "B"	6	Office Kitchen Entry
7	Depot - Entry "C"	8	Office - Entry "B"
9	Depot - Entry "D"	10	Office Entry "C"
11	Depot - Entrys "E" & "F"	12	Office Smoke Detector
13	Depot - Paint Spray	14	(Blank)
15	Depot - Sprinkler Riser No. 1	16	(Blank)
17	Depot - Sprinkler Riser No. 2	18	(Blank)
19	Depot - Sprinkler Riser No. 3	20	(Blank)



DETAIL "D" △

Scale ¾"=1'-0"
△ Revision - Changed Transite Duct to PVC



FIRE ALARM RISER △

No Scale

	7-1-70	As Built
△4	5-9-69	Revised Fire Alarm Riser & Annunciator Sched. & Duct bank Details
△3	4-7-69	Added Telephone Outlet to Legend
△2	2-21-69	Revision - Deleted Detail "A" & Changed To PVC Duct On 3/W & 4/W D.8
△1	1-20-69	General Revision - Entire Sheet

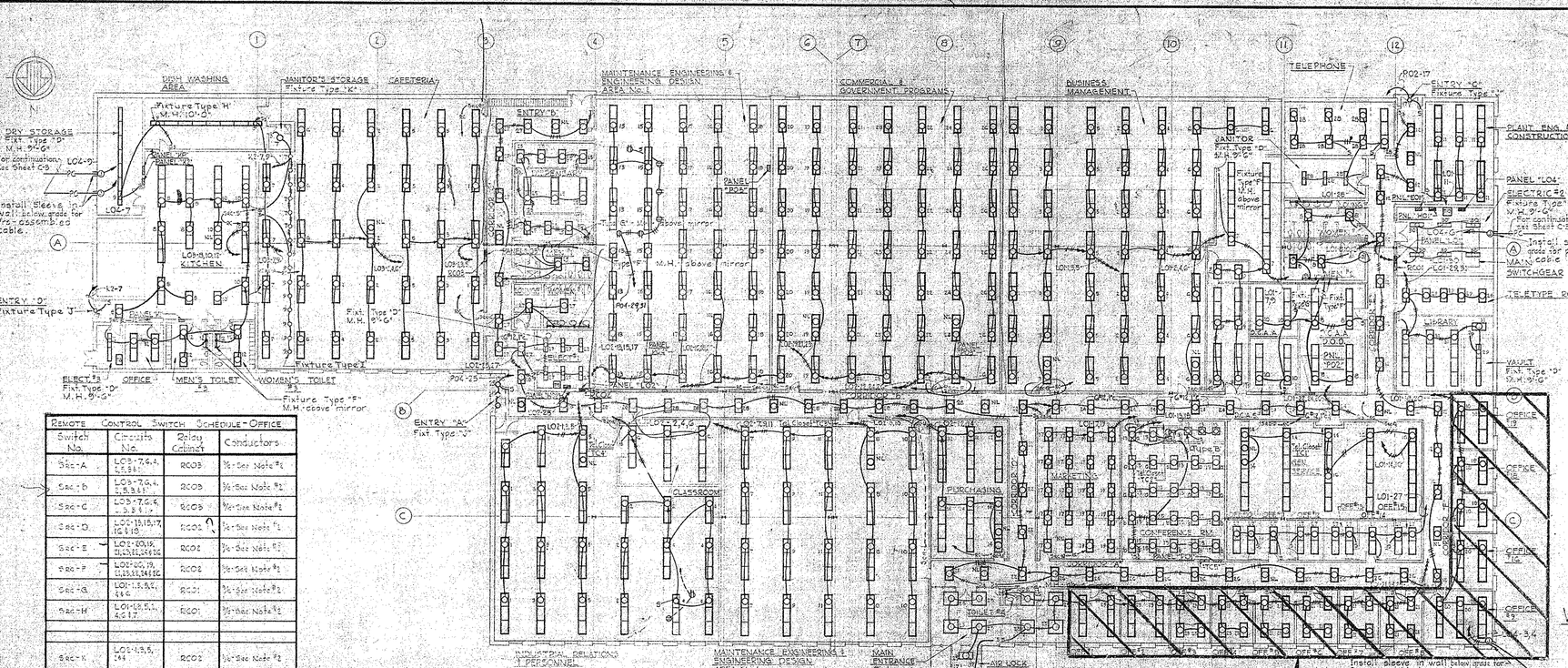
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL - OFFICE & DEPOT BUILDINGS
LEGEND, GENERAL NOTES, & MISCELLANEOUS DETAILS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS
BALTIMORE, MARYLAND
BY [signature]
DATE: 1-20-69

DRAWN BY H.H.	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY D.S.	B.F.E.C.	SHEET NO. E-1 OF 32

W.O.'s 6116-2 & 6117-2



LIGHTING PLAN OFFICE BUILDING

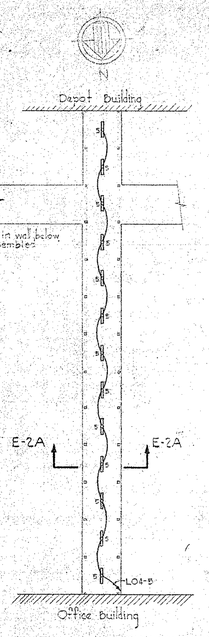
Scale: 1/16" = 1'-0"

REMOTE CONTROL SWITCH SCHEDULE - OFFICE			
Switch No.	Circuits No.	Relay Cabinet	Conductors
Sec-A	LO3-7,9,4, 2,5,8,1	RC03	1/2"-See Note #2
Sec-B	LO3-7,9,4, 2,5,8,1	RC03	3/4"-See Note #2
Sec-C	LO3-7,9,4, 2,5,8,1	RC03	3/4"-See Note #2
Sec-D	LO2-13,15,17, 19,21,23	RC02	3/4"-See Note #2
Sec-E	LO2-20,19, 21,23,22,24&26	RC02	3/4"-See Note #2
Sec-F	LO2-20,19, 21,23,22,24&26	RC02	3/4"-See Note #2
Sec-G	LO1-1,3,5,4, 2&6	RC01	3/4"-See Note #2
Sec-H	LO1-1,3,5,4, 2,6&7	RC01	3/4"-See Note #2
Sec-K	LO2-4,3,5, 1&6	RC02	3/4"-See Note #2
Sec-L	LO2-7,9,11, 8&10	RC02	3/4"-See Note #2
Sec-M	LO1-12&14	RC01	3/4"-See Note #2
Sec-N	LO1-17&19	RC01	3/4"-See Note #2
Sec-P	LO1-16&18	RC01	3/4"-See Note #2
Sec-Q	LO1-16&18	RC01	3/4"-See Note #2
Sec-R	LO3-8&10	RC03	3/4"-See Note #2
Sec-S	LO3-8&10	RC03	3/4"-See Note #2

SWITCH SCHEDULE

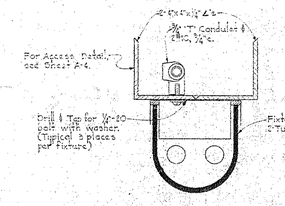
NOTES

1. For LEGEND & GENERAL ELECTRICAL NOTES, See Sheet E-1.
2. Provide 3/4" conduit from remote control switch box to space above ceiling & provide bushing.
3. For location of Air Conditioning Units associated with respective thermostats, see Sheet E-4.



WALKWAY LIGHTING PLAN BETWEEN BUILDINGS

No Scale

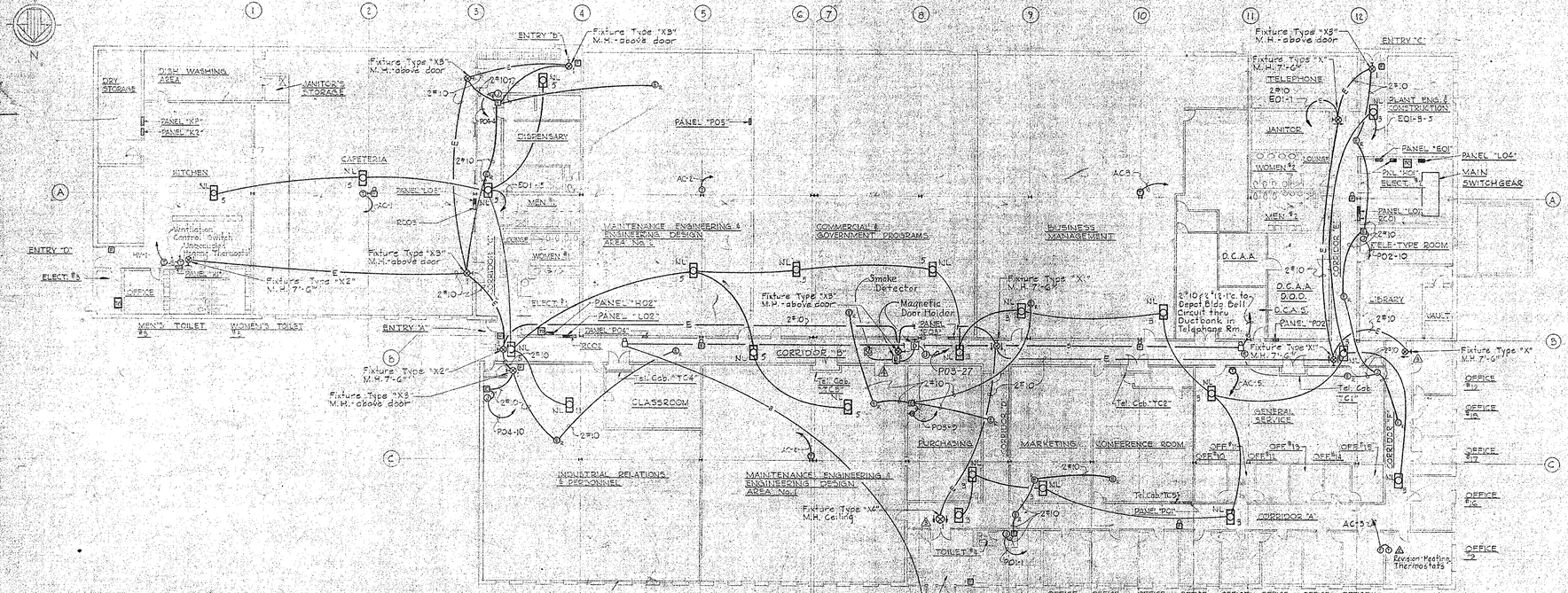


SECTION E-2A/E-2 WALKWAY FIXTURE

No Scale

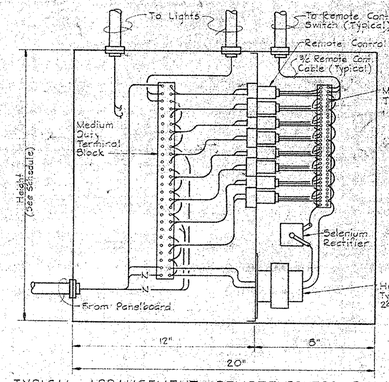
NOTE - Each Low Voltage Relay Panel Has Two 24 Volt Transformers Paralleled For Voltage Drop RC01 - RC02 - RC03

△5 FOR REVISED PLAN OF THIS AREA, SEE SHEET E-8



PLAN - SPECIAL SERVICES - OFFICE BUILDING

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



TYPICAL ARRANGEMENT - REMOTE CONTROL RELAY CABINET

RELAY CABINET SCHEDULE	
NUMBER OF RELAYS	MINIMUM DIMENSIONS
7 - 8	18"H. x 20"W. x 6" Deep
9 - 14	24"H. x 20"W. x 6" Deep
15 - 20	30"H. x 20"W. x 6" Deep
21 - 24	36"H. x 20"W. x 6" Deep

No Scale

△	3-9-69	Added - Smoke Detector & Door Holders To Office Plan
△	4-17-68	Deleted Portion At Lts Plan, Relocated Exit Lts In Corr. "A" & "B", Changed Exit Fixture Type In Corr. "A"
△	2-21-68	Revision-Air Conditioning And Heating Thermostats
△	1-20-68	General Revision - Entire Sheet

7-1-70 | As Built

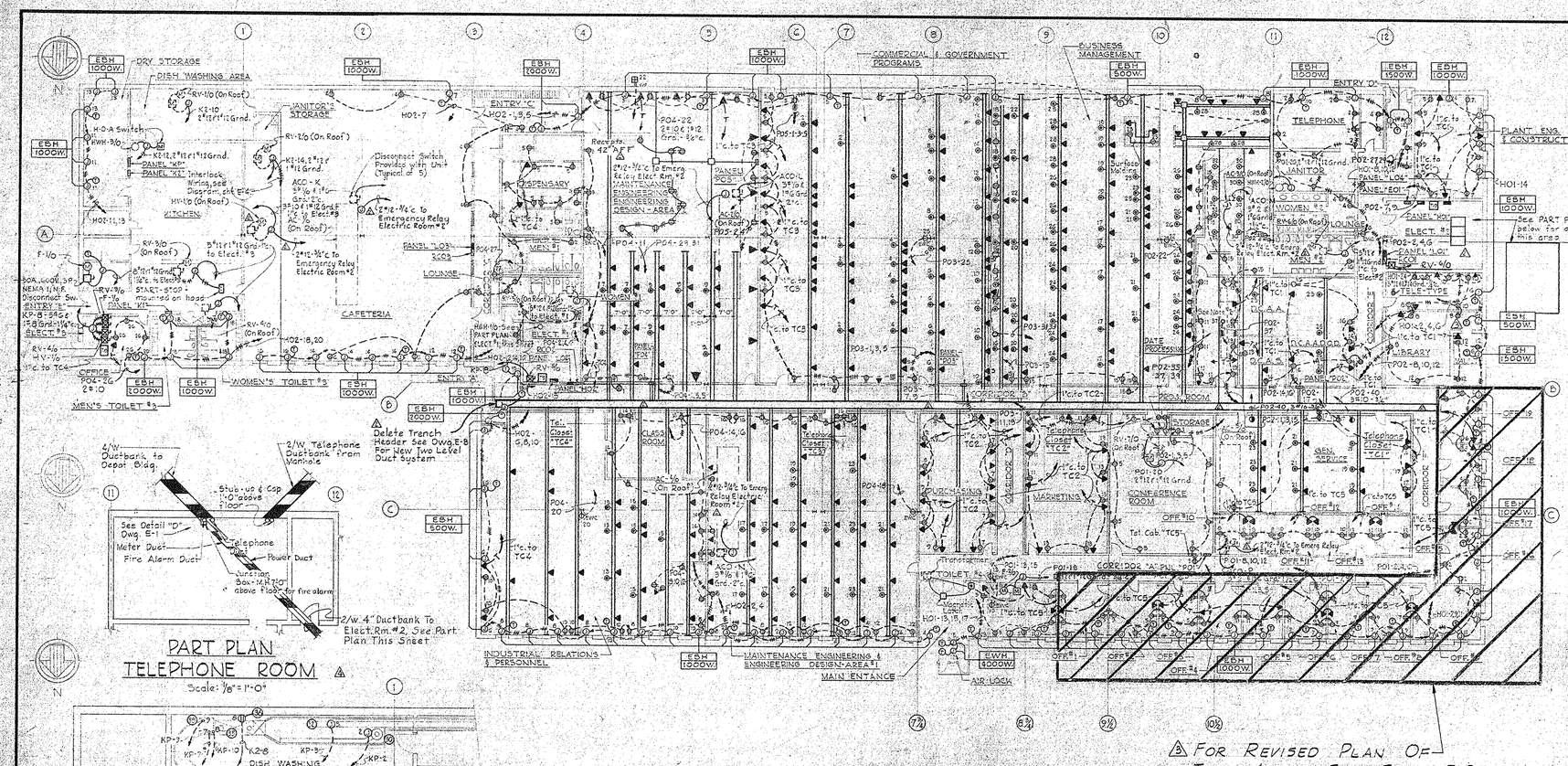
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL-OFFICE BUILDING
LIGHTING PLANS & SPECIAL SERVICES

CONSULTING ENGINEERS: WHITMAN, REQUARDT AND ASSOCIATES, BALTIMORE, MARYLAND
BY: C. S. Pritchard | DATE: 1-20-69

DRAWN BY: H.H. | APPROVED BY: | CONSTRUCTION PROJECT NUMBER: CST 67-11
CHECKED BY: D.S. | B.F.E.C. | SHEET NO. E-2 OF 32

W.O. 6116-12

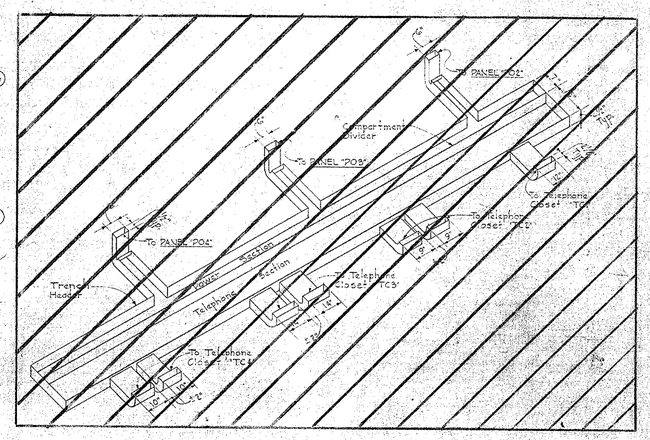


NOTES

1. For LEGEND & GENERAL ELECTRICAL NOTES, See Sheet E-1.
2. Data Phone to Towson.
3. Telephone cabinet "TC5" 36"w. x 48"h. x 6"d.
4. Stub up 4" steel conduit 6" above floor, reduced to 1" conduit & extend conduit & wire to Power Company Metering
5. Stub up 4" steel conduit as required

PART PLAN
TELEPHONE ROOM

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



TRENCH HEADER — PANELBOARD AND CLOSET CONNECTIONS

No Scale

Make connections to panelboards with terminal bushings. Vertical runs for panelboards concealed in wall.

Revision-Delete Trench Header See Dwg. E-8 For New Two Level Duct System

2/W 4" Ductbank To Telephone Rm, See Part Plan This Sheet

Power Duct See Note 5

150 KVA Transformer 3φ, 480-208/120V.

PANEL "HO1"

PANEL "EO1"

PANEL "LO4"

MAIN SWITCHGEAR

PANEL "LO1"

PCO1

1 1/4"c. For Power Company Metering

See Note 4

EV-6/0 Air Conditioning Ventilation Emergency Relay

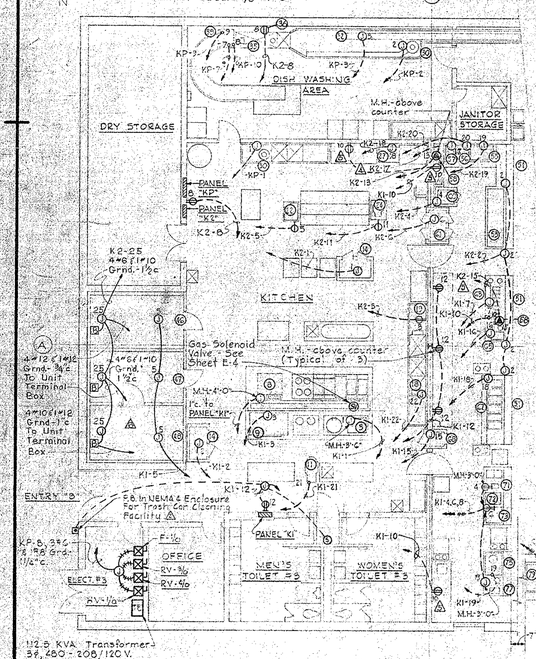
2/W 4" Ductbank terminate 1'-0" beyond outside edge of building footing

Transformer 3φ 2-480/277V. By Power Co.

PART PLAN
ELECT. #2

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

Deleted Air Conditioning Control Equipment & Relocated Switch RV-6/0



PART PLAN
KITCHEN

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

POWER & SPECIAL SERVICES
OFFICE BUILDING

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

FOOD SERVICE EQUIPMENT SCHEDULE

ITEM NO.	EQUIPMENT	CKT. NO.	VOLTS	φ	WIRE No.	WIRE Size	WIRE Grnd.	CONDUIT	TYPE CONN.	REMARKS
8	Steamer & Kettle Unit	KI-1	120	1	2	12	-	3/4"	O	Install Contactors as required See Wiring Diagram Sheet E-4
8	Convection Ovens	KI-7	208	1	-	-	-	-	E	
9	Exhaust Canopy	KI-5	120	1	2	12	-	3/4"	A	
11	30 Qt. Mixer	KI-21	208	3	3	12	12	3/4"	G	
14	Reach-In Refrigerator	KI-11	120	1	2	12	-	3/4"	B	
18	Sink Heater	KI-22	208	3	3	6	10	1"	D	
19	Pot Washer	KI-3	120	1	2	12	-	3/4"	F	
22	Slicer	KI-5	120	1	2	12	-	3/4"	G	
24	20 Qt. Mixer	KI-11	120	1	2	12	-	3/4"	G	
27	Ice Machine	KI-16	208	3	4	12	12	3/4"	D	
30	Disposal Unit	KP-1	480	3	3	12	12	3/4"	D	
30	Disposal Unit	KP-2	480	3	3	12	12	3/4"	D	
32	Conveyor	KP-3	480	3	3	12	12	3/4"	O	
35	Dishwasher	KP-7 KP-10	208 480	3 3	3 3	6 6	12 10	3/4" 1 1/4"	C C	
38	Hot Water Booster	KP-9	208	3	3	6	8	1 1/2"	D	
46	Walk-In Refrigerator	KI-13	120	1	2	12	-	3/4"	B	
47	Walk-In Refrigerator	KI-15	208	1	2	12	-	3/4"	B	
48	Walk-In Freezer	KI-17	120	1	2	12	-	3/4"	B	
51	Protector Case	KI-19	208	1	2	12	-	3/4"	B	
55	Display Case	KI-1	120	1	2	12	-	3/4"	D	
55	Griddle	KI-19	208	3	4	6	-	1 1/4"	D	Install Contactors as required See Wiring Diagram Sheet E-4
56	Fryer	KI-20	208	3	4	6	-	1 1/4"	D	Install Contactors as required See Wiring Diagram Sheet E-4
57	Hot Plate	KI-17	208	3	4	6	-	1 1/4"	D	Install Contactors as required See Wiring Diagram Sheet E-4
58	Toaster (2)	KI-18 KI-18	208	1	2	12	-	3/4"	H	
60	Reach-In Refrigerator	KI-4	120	1	2	12	12	3/4"	D	
61	Pass-Thru Refrigerator	KI-6	120	1	2	12	12	3/4"	D	
63	Sandwich Unit w/ Refrigerator	KI-7 KI-10	120 120	1 1	2 2	12 12	-	3/4" 3/4"	A A	
65	Hot Food Well	KI-16	208	1	3	12	-	3/4"	D	
67	Hot Food Table	KI-18	208	1	3	8	-	1"	D	
68	Pass-Thru Food Warmer	KI-15	208	1	3	12	-	3/4"	D	
71	Iced Tea Dispenser	KI-2	120	1	2	12	-	3/4"	J	
72	Non-Carb. Drink Dispenser	KI-4	120	1	2	12	-	3/4"	J	
73	Refrig. Milk Lowerator	KI-6	120	1	2	12	-	3/4"	K	
75	Coffee Urn	KI-19	208	1	3	6	10	1 1/4"	C	
77	Hot Chocolate Dispenser	KI-8	120	1	2	12	-	3/4"	H	
79	Ice Cream Display Case	KI-9	120	1	2	12	-	3/4"	H	
81	Cash Registers	KI-21	120	1	2	12	-	3/4"	F	
86	Detergent Dispenser	KI-22	120	1	2	12	-	3/4"	F	

FOR REVISED PLAN OF THIS AREA, SEE SHEET E-8

CONNECTION TYPES

A - Provide junction box where required to connect to exhaust hood lights.

B - Connect to junction box provided on unit.

C - Stub-up and connect to unit as required.

D - Provide junction box where required and connect to unit.

E - Provide junction box as indicated and extend empty conduit to panelboard.

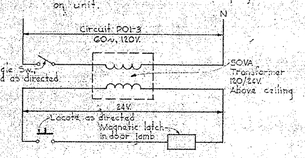
F - Provide duplex convenience outlet where indicated.

G - Provide floor mounted, single convenience outlet where indicated.

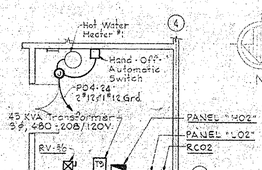
H - Provide receptacle to match plug provided with equipment.

J - Stub up and connect to receptacle provided by others.

K - Provide floor outlet to accept plug on unit.



MAGNETIC DOOR LATCH



PART PLAN
ELECT. #1

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

	7-1-70	As Built
4	6-30-69	Revised Circuitry For Walk-in Units #46, #47, & #48
3	5-28-69	Relocated Toaster Outlet & Added Conv. Outlets - Kitchen
2	5-9-69	Corrected Circuit No. of Item No. 57 on Part Plan & Revised Ductbank
1	4-7-69	Deleted Portion Of Power & Special Services Plan - Added Ext. Phone In Vault
1	2-21-69	Revision - Deleted Detail For Trench Header & Relocate Equipment
1	1-20-69	General Revision - Entire Sheet

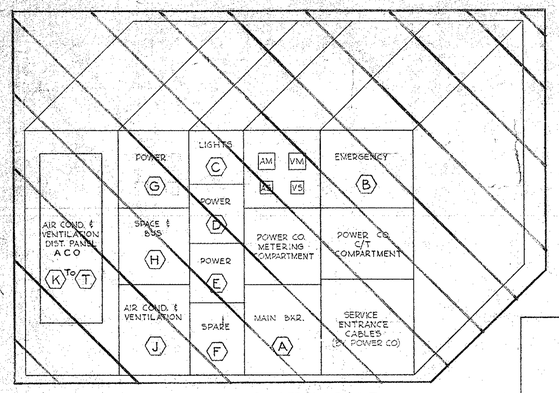
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL-OFFICE BUILDING
POWER PLANS & DETAILS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND

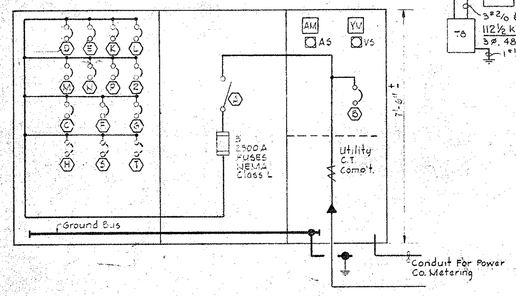
DRAWN BY: H.H. | APPROVED BY: | DATE: 1-20-69
CHECKED BY: P.D. | B.F.E.C. | CONSTRUCTION PROJECT NUMBER: CS-T 67-11
SHEET NO. E-3 OF 32

W.O. 8116-2



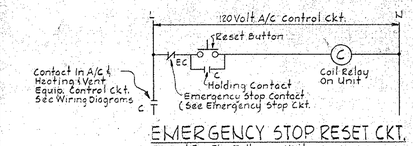
MAIN SWITCHGEAR OFFICE BUILDING

480/277 Volts, 3ϕ, 4W, 60~
No Scale
△ Revision - Main Switch Gear



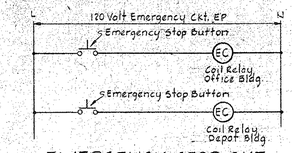
MAIN SWITCHGEAR ONE LINE DIAGRAM

No Scale
△ Revision - Main Switchgear



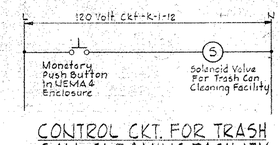
EMERGENCY STOP RESET CKT.

Typical For The Following Units:
Office Bldg - AC-1/0, AC-3/0, AC-3/0
AC-6/0, AC-8/0, HV-1 & Kitchen H&V Control
Depot Bldg - AC-1/0, AC-2/0, AC-3/0
AC-4/0, AC-5/0, AC-6/0
AC-7/0, HV-2
△ Revision - Wiring Diagrams



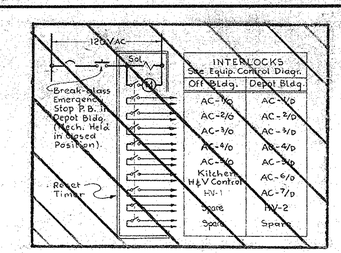
EMERGENCY STOP CKT.

Emergency Stop Buttons To Be Installed In The Depot Bldg. & Relays Installed In The Electrical Distribution Rooms
△ Revision - Wiring Diagrams



CONTROL CKT. FOR TRASH CAN CLEANING FACILITY

△ Revision - Wiring Diagrams

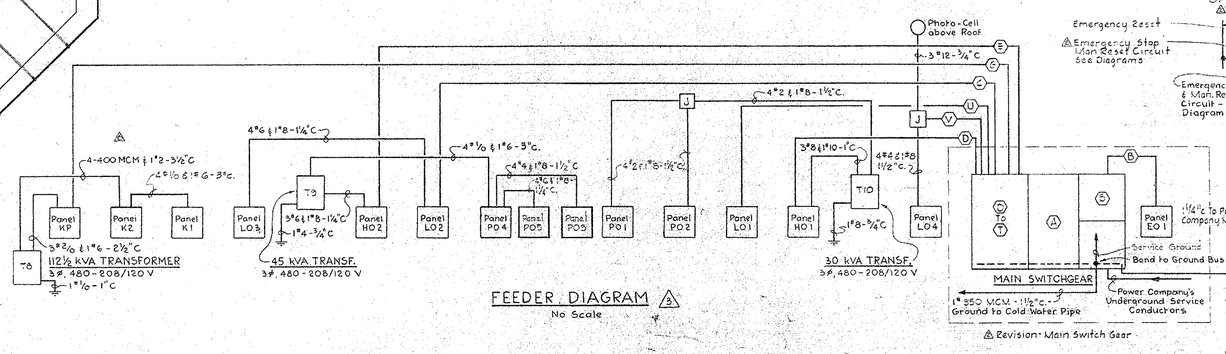


EMERGENCY STOP & AUTO. RECYCLE CIRCUIT

TYPICAL ONE FOR EACH BLDG.
DEPOT BLDG. LOCATION - MAIN ELECTRICAL DISTRIB. RM.
OFFICE BLDG. LOCATION - ELECTRICAL DISTRIB. RM. #2
△ Revision - Wiring Diagrams

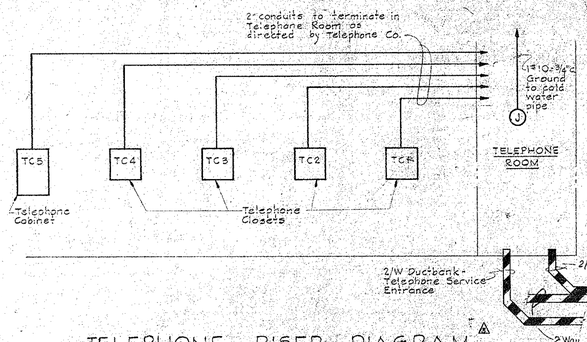
NOTES

1. For LEGEND & GENERAL ELECTRICAL NOTES, See Sheet E-1.
2. All transformers, neutrals & cases shall be grounded.



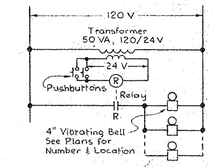
FEEDER DIAGRAM △3

No Scale

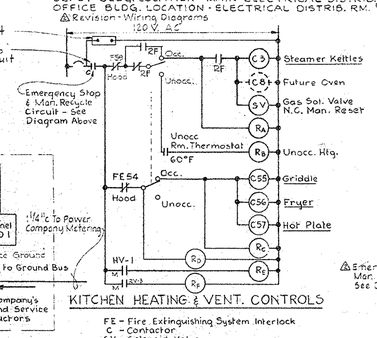


TELEPHONE RISER DIAGRAM

No Scale

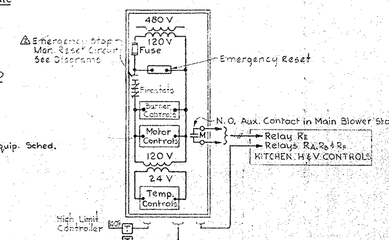


WIRING FOR DOORBELLS



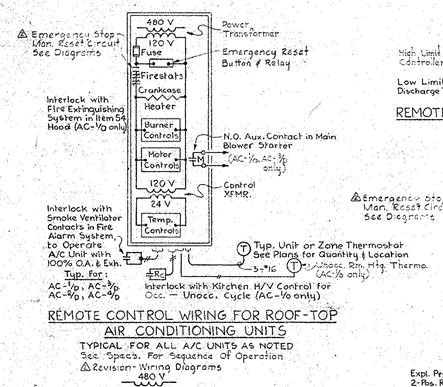
KITCHEN HEATING & VENT. CONTROLS

FE - Fire Extinguishing System Interlock
C - Contactor
SV - Solenoid Valve
R - Control Relay
Equipment Designation C 55 — Item 55 - Kitchen Equip. Sched.
△ Revision - Wiring Diagrams



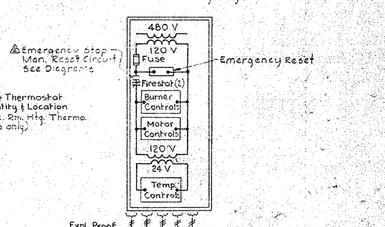
REMOTE CONTROL WIRING FOR KITCHEN MAKE-UP AIR UNIT HV-1

△ Revision - Wiring Diagrams



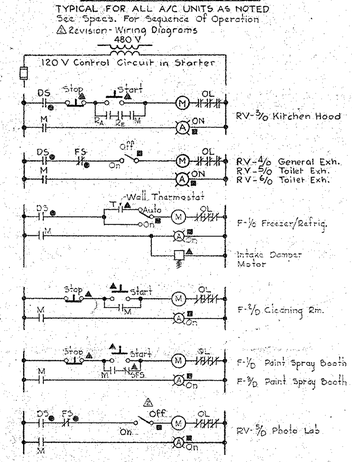
REMOTE CONTROL WIRING FOR ROOF-TOP AIR CONDITIONING UNITS

TYPICAL FOR ALL A/C UNITS AS NOTED
See Specs. For Sequence Of Operation
△ Revision - Wiring Diagrams



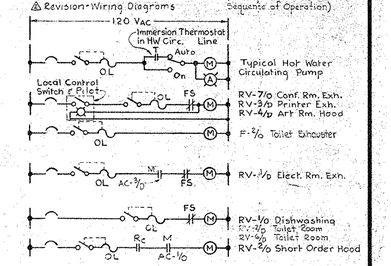
REMOTE CONTROL WIRING FOR PAINT ROOM MAKE-UP AIR UNIT HV-2

(See Specifications for Sequence of Operation)
△ Revision - Wiring Diagrams



MOTOR CONTROL DIAGRAMS FOR THREE PHASE MOTORS OFFICE & DEPOT BLDGS.

DS - Disconnect Switch
FS - Firestat
SPS - Sprinkler Flow Sw.
● - at Motor
■ - on Starter
▲ - Remote - see Plan
△ Revision - Wiring Diagrams



MOTOR CONTROL DIAGRAMS FOR SINGLE PHASE MOTORS OFFICE & DEPOT BLDGS.

△ Revision - Main Switchgear

(A) 480 Volt, 3 Pole, 2500 Amp. Bolted-Pressure, Load-Break Switch

MAIN SWITCHGEAR DISTRIBUTION SCHEDULE △3

Item No.	NAMEPLATE	CIRCUIT BREAKER FRAME	POLE	CALIB.	A.I.C.	WIRE No.	WIRE SIZE	POWER TYPE	GRD. SIZE	COND. SIZE	REMARKS
(A)	Main Switch										2500 Amp. Fuses
(B)	Emergency Systems	225	3	70	35,000	4	6		8	1¼"	
△ (C)	Panels: L02, L03	225	3	200	35,000	4	4/0		6	3"	
(D)	Panel HO1	225	3	150	35,000	4	1/0		6	3"	
(E)	Panel HO2	225	3	200	35,000	4	3/0		6	3"	
(F)	(Spare)	400	3	400	35,000						
(G)	Panel KP	400	3	300	35,000	3	300 MCM		2	3"	
(H)	(Space & Bus)	800	3	—	—						
(K)	Air Conditioner AC 1/0	225	3	150	35,000	3	1/0		6	2"	
(L)	Air Conditioner AC 3/0	225	3	125	35,000	3	1		6	2"	
(M)	Air Conditioner AC 3/0	225	3	125	35,000	3	2		6	1½"	
(N)	Air Conditioner AC 4/0	225	3	125	35,000	3	1		6	2"	
(P)	Air Conditioner AC 5/0	225	3	125	35,000	3	2		6	1½"	
(R)	(Spare)	225	3	150	35,000	3					
(S)	(Space & Bus)	400	3	—	—						
(T)	(Space & Bus)	400	3	—	—						
(U)	Panel LO1	225	3	150	35,000	4	1/0		6	3"	
(V)	Panel LO4	225	3	90	35,000	4	4		8	1½"	

△ Revision - Main Switchgear

△	6-30-69	Revised Feeder to Panel "K2"
△	5-9-69	Revised Ductbank - Telephone Riser Diagram
△	4-18-69	Revised Unit S&C - Main Swgr. Distribution Schedule
△	4-7-69	Revised Feeder Diagram & Distribution Schedule
△	2-21-69	Revisions - Main Switch Gear & Wiring Diagrams
△	1-20-69	General Revision - Entire Sheet

7-1-70	As Built

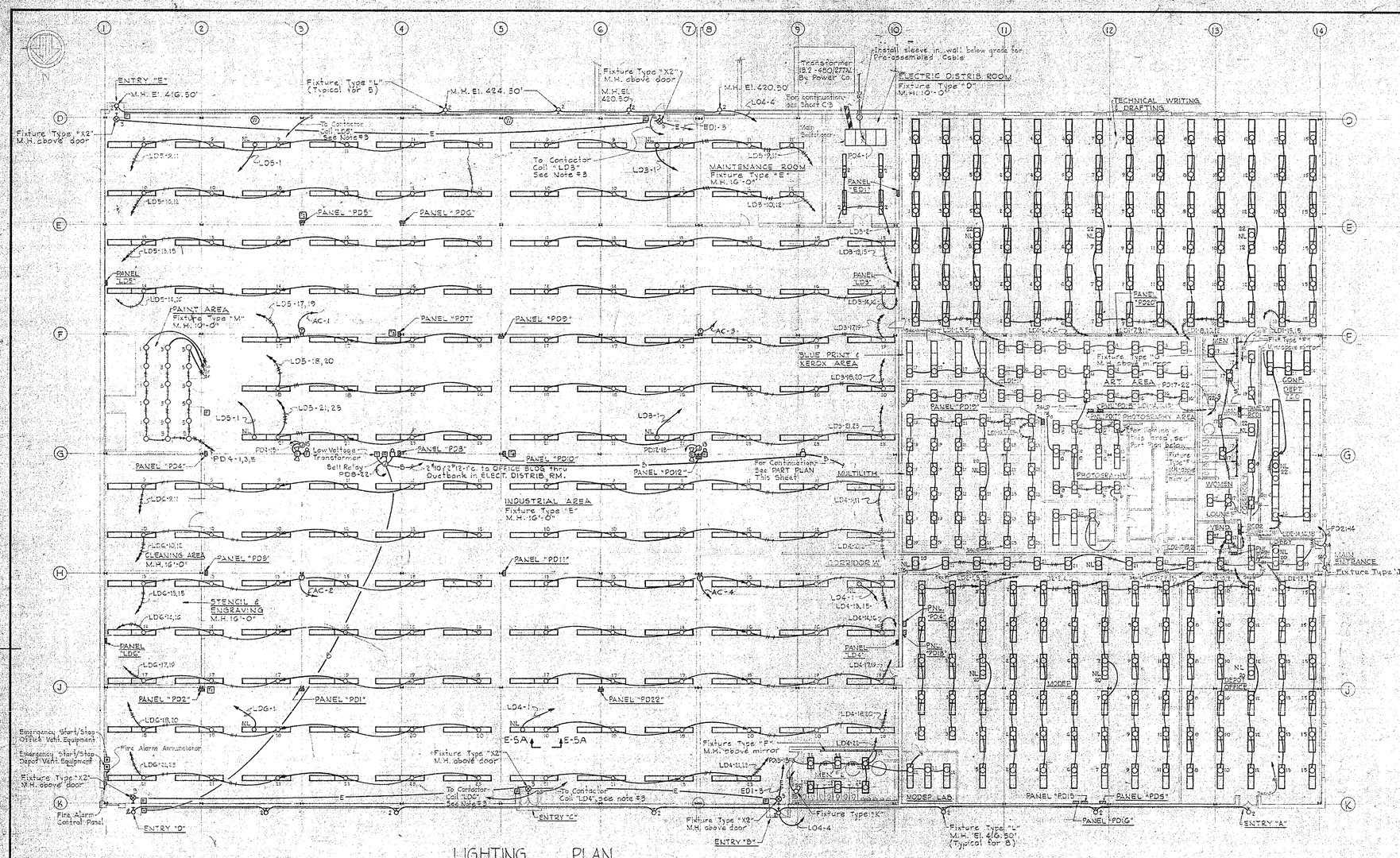
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL - OFFICE BUILDING
SWITCHBOARD LAYOUT, POWER RISER, & WIRING DIAGRAMS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY — DATE: 1-20-69

DRAWN BY: WK	APPROVED BY:	CONSTRUCTION PROJECT NUMBER: CST 67-11
CHECKED BY: DS	B.F.E.C.	SHEET NO. E-4 OF 32

W.O. 8116-16



LIGHTING PLAN
DEPOT BUILDING

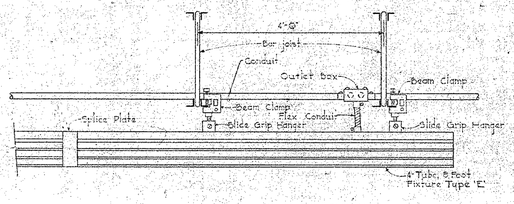
Scale: 1/16" = 1'-0"

NOTES

1. For LEGEND & GENERAL ELECTRICAL NOTES, see sheet E-1.
2. Provide 3/4" conduit from remote control switch box to space above ceiling & provide bushing.
3. Toggle Switches for control of Panelboards LD3, LD4, LD5 and LD6 shall be Arrow-Hart, Inc. catalog no. 4950, or approved equal.
4. For location of Air Conditioning Units associated with respective thermostats, see sheet E-6.

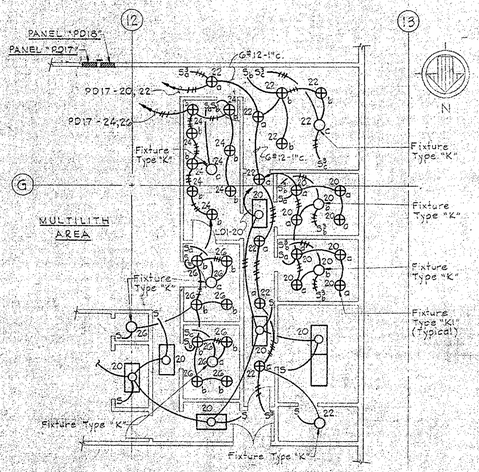
REMOTE CONTROL SWITCH SCHEDULE - DEPOT			
Switch No.	Circuits No.	Relay Cabinet	Conductors
Sec-A	LD1-1,3,5,2,4,6,7,9,11,8,10,12,15 & 13	RCD1	3/4"-See Note #2
Sec-B	LD1-1,5,3,2,4,6,7,9,11,8,10,12,15 & 13	RCD1	3/4"-See Note #2
Sec-C	LD2-10 & 18	RCD2	3/4"-See Note #3
Sec-D	LD1-14 & 16	RCD1	3/4"-See Note #2
Sec-E	LD1-19,21 & 23	RCD1	3/4"-See Note #2
Sec-F	LD2-1,3,5,2,4,6,7,9 & 11	RCD1	3/4"-See Note #2
Sec-G	LD2-13,15,2,4,6,7,9 & 11	RCD2	3/4"-See Note #2
Sec-H	LD1-8,10,12,14,13 & 15	RCD2	3/4"-See Note #4
Sec-J	LD2-8,10,12,14,13 & 15	RCD2	3/4"-See Note #4

SWITCH SCHEDULE



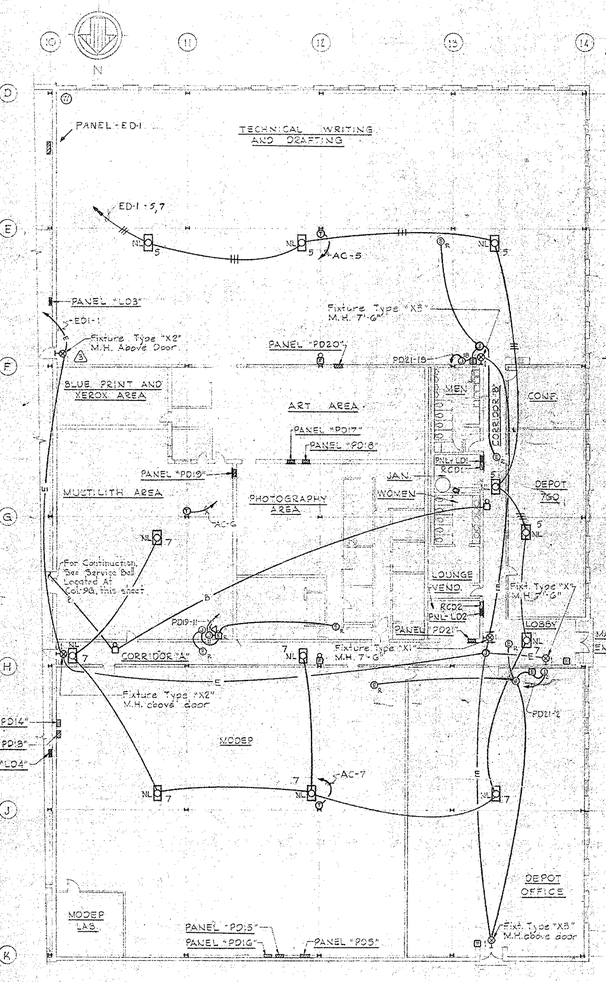
SECTION E-5A/E-5

Typical For Lighting In "Industrial" Areas
No Scale



PART PLAN - PHOTOGRAPHY AREA
DEPOT BUILDING

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



PART PLAN - OFFICE AREA
DEPOT BUILDING

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

3	4-7-69	Added Exit Lt. above doorway adjacent to Col. 10-F
2	2-21-69	Revision - Air Conditioning And Heating Thermostat
1	1-20-69	General Revision - Entire Sheet

7-1-70	As Built

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL - DEPOT BUILDING
LIGHTING PLANS & SPECIAL SERVICES

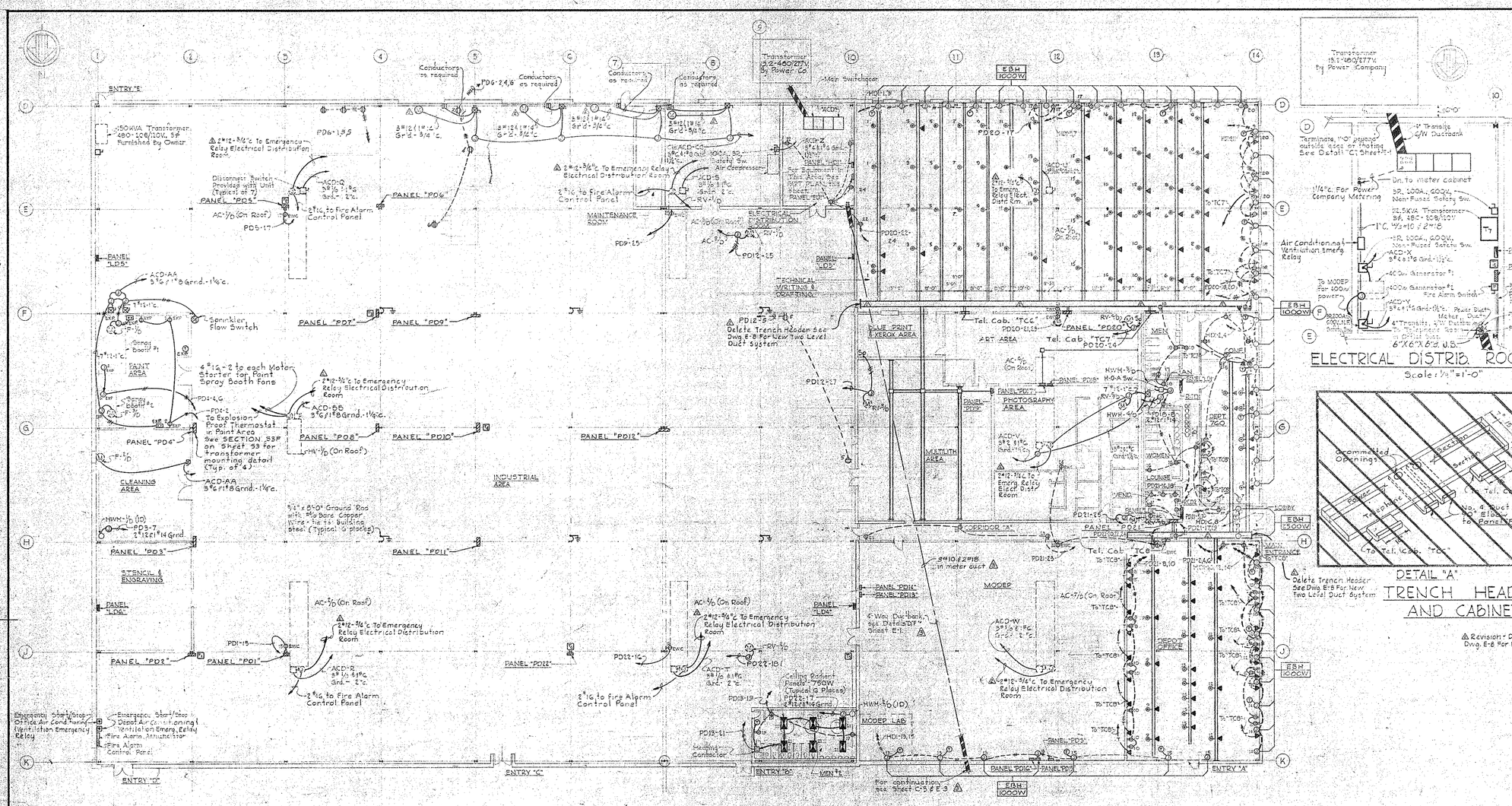
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS
BALTIMORE, MARYLAND
BY: [illegible] DATE: 1-20-69

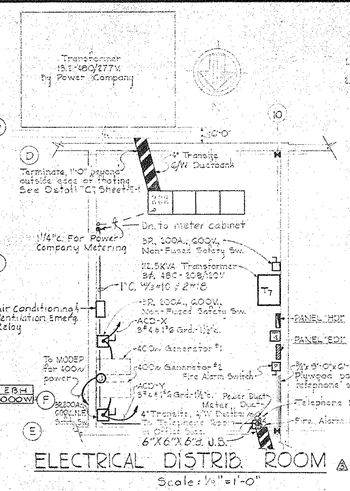
DRAWN BY: HH	APPROVED BY	CONSTRUCTION PROJECT NUMBER DST 67-11
CHECKED BY: DS	B.F.E.C.	SHEET NO. E-5 OF 32

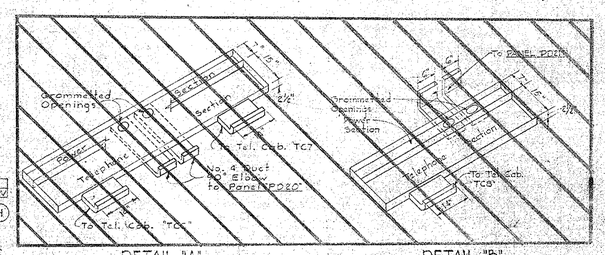
W.O. 6117-2

NOTES

1. For LEGEND & GENERAL ELECTRICAL NOTES, See Sheet E1
2. Telephone Cabinets "TC2", "TC3" — TC2: 30"w.x48"h.x12"d.



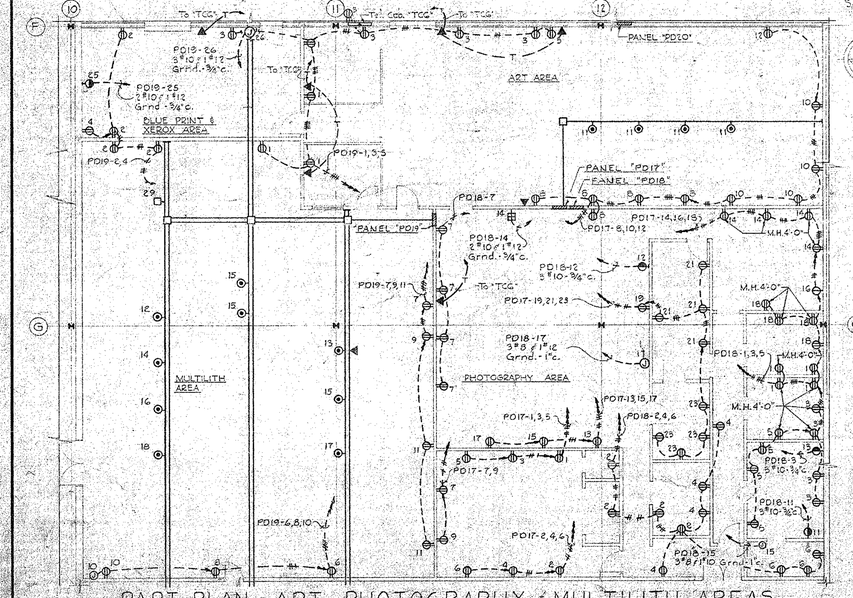


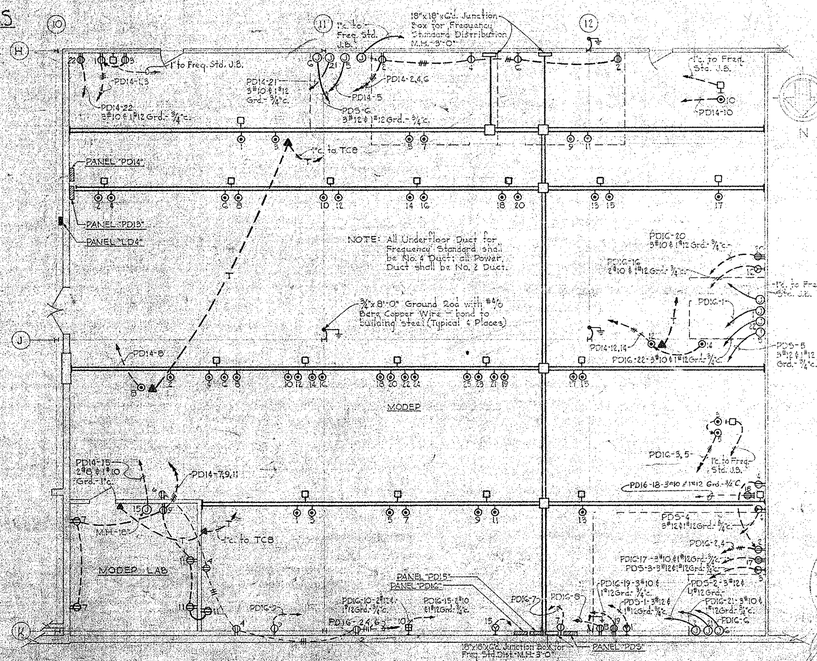


TRENCH HEADERS - PANELBOARD AND CABINET CONNECTIONS

No Scale

Revision: Delete Trench Header See Dwg. E-8 For New Two Level Duct System





	7-1-70	As Built
3	5-9-69	Revised Part Plan-Modep Area & Elect. Rm.
2	2-21-69	Revision-Delete Trench Header And Door Heaters
1	1-20-69	General Revision - Entire Sheet

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL-DEPOT BUILDING
POWER PLANS & DETAILS

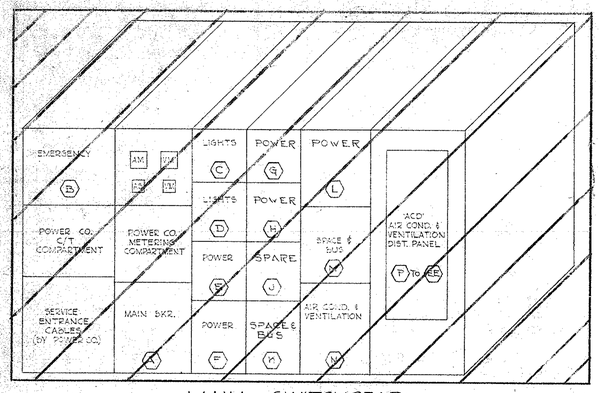
WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY: — DATE: 1-20-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
HH		CST 67-11
CHECKED BY		SHEET NO. E-6 OF 32
PD	B.F.E.C.	

W.O. 6117-2

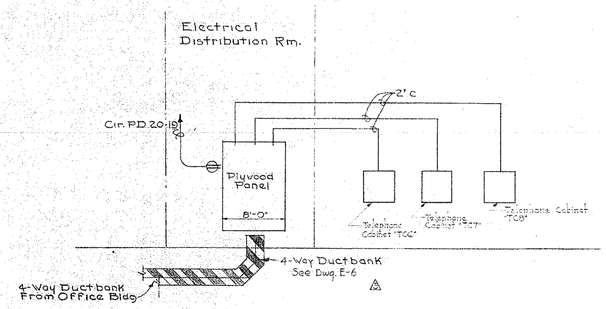
NOTES

1. For LEGEND & GENERAL ELECTRICAL NOTES, See Sheet E-1.
2. Extend conduit & wire as indicated & provide junction box at 400w Generator (by Others). Allow 10' extra length of each conductor coiled at the junction box.
3. All transformers, neutrals & cases (N.C.) to be grounded.



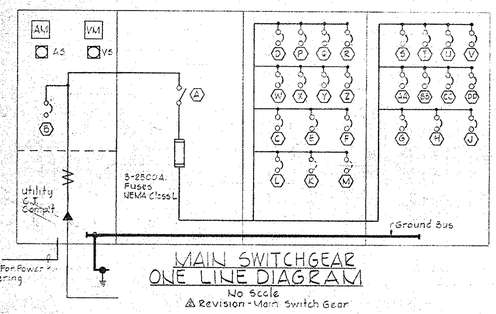
MAIN SWITCHGEAR
DEPOT BUILDING

480/277 Volts, 3φ 4W. 60~
No Scale
⚠ Revision - Main Switch Gear



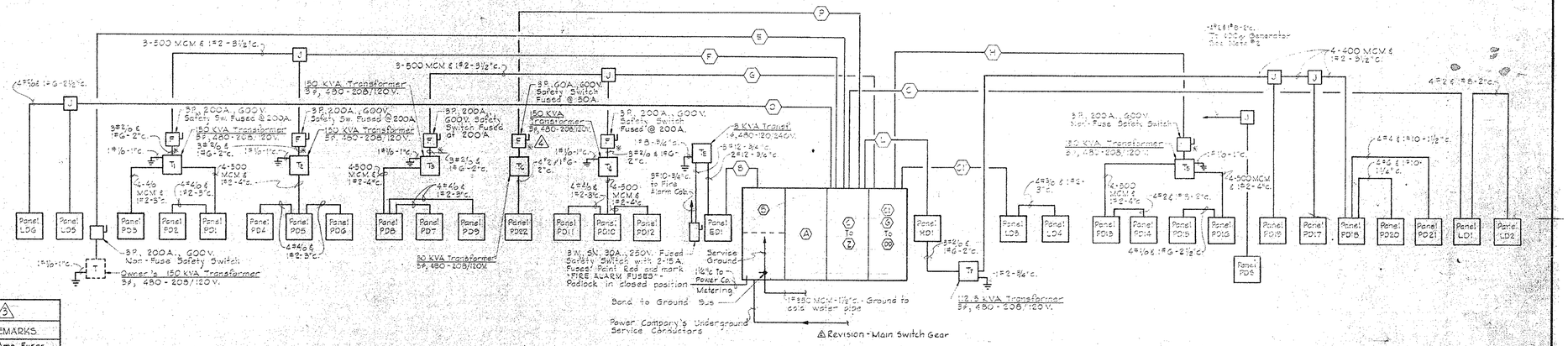
TELEPHONE RISER DIAGRAM

No Scale



MAIN SWITCHGEAR
ONE LINE DIAGRAM

No Scale
⚠ Revision - Main Switch Gear



⚠ Revision - Main Switch Gear

F E E D E R D I A G R A M ⚠

No Scale

Note: Switches Marked (*) shall be operable from floor level.

MAIN SWITCHGEAR DISTRIBUTION SCHEDULE ⚠

Unit No.	NAMEPLATE	CIRCUIT BREAKER Frame	Pole	Calib.	A.I.C.	WIRE POWER No.	Size	Type	GRD. Size	COND. Size	REMARKS
(A)	Main Switch										2,500 Amp. Fuses
(B)	Emergency Systems Breaker	225	3	70	35000	4	6		8	1¼"	
⚠ (C)	Panels LD1, LD2	225	3	200	35,000	4	3/0		2	3"	
(D)	Panels LD5, LD6	225	3	175	35000	4	2/0		6	2½"	
(E)	150 kVA System Test Transformer	400	3	200	35,000	3	4/0		2	2½"	
(F)	150 kVA Transf. - Panels PD1, PD2, PD3	400	3	400	35,000	3	500 MCM		2	3½"	
(G)	150 kVA Transf. - Panels PD4, PD5, PD6										
	150 kVA Transf. - Panels PD7, PD8, PD9	400	3	400	35,000	3	500 MCM		2	3½"	
(H)	150 kVA Transf. - Panels PD10, PD11, PD12										
	150 kVA Transf. - Panels PD13, PD14, PD15, PD16	400	3	200	35,000	3	4/0		2	3"	
(J)	(Spare)	400	3	300	35,000						
(K)	(Space & Bus)	400	3	—							
(L)	Panel PD1, 112.5 kVA Transf. Panels PD17, PD18, PD19, PD20, PD21	400	3	225	35,000	4	4/0		2	3"	
(M)	(Space & Bus)	400	3	—							
⚠ (P)	90 kVA Transformer - Panel PD22	225	3	70	35,000	3	6		8	1¼"	
(Q)	Air Conditioner AC1/D	225	3	175	35,000	3	1/0		6	2"	
(R)	Air Conditioner AC2/D	225	3	175	35,000	3	1/0		6	2"	
(S)	Air Conditioner AC3/D	225	3	175	35,000	3	1/0		6	2"	
(T)	Air Conditioner AC4/D	225	3	175	35,000	3	1/0		6	2"	
(U)	Air Conditioner AC5/D	225	3	175	35,000	3	1/0		6	2"	
(V)	Air Conditioner AC6/D	225	3	125	35,000	3	2		6	1½"	
(W)	Air Conditioner AC7/D	225	3	175	35,000	3	1/0		6	2"	
(X)	400 Cycle Generator No. 1	225	3	150	35,000	3	4		6	1½"	
(Y)	400 Cycle Generator No. 2	225	3	150	35,000	3	4		6	1½"	
(Z)	Air Compressor	225	3	125	35,000	3	4		6	1¼"	
(AA)	Paint Spray Booths	225	3	70	35,000	3	6		8	1¼"	
(BB)	Paint Spray Makeup Air Fans	225	3	70	35,000	3	6		8	1¼"	
(CC)	Motorized Doors & Door Heaters	225	3	70	35,000	3	6		8	1¼"	
(DD)	(Spare)	225	3	150	35,000						
(EE)	Panels LD3, LD4	225	3	200	35,000	4	3/0		2	3"	

	7-1-70	As Built
⚠	5-9-69	Revised Ductbank for Metering
⚠	4-15-69	Revised Units B, C & P - Main Swgr Distrib'n, Sched. & Disc. Sw. for TG
⚠	4-7-69	Revised Feeder Diagram & Distribution Schedule
⚠	2-21-69	Revisions - Main Switch Gear & Wiring Diagram
⚠	1-10-69	General Revision - Entire Sheet

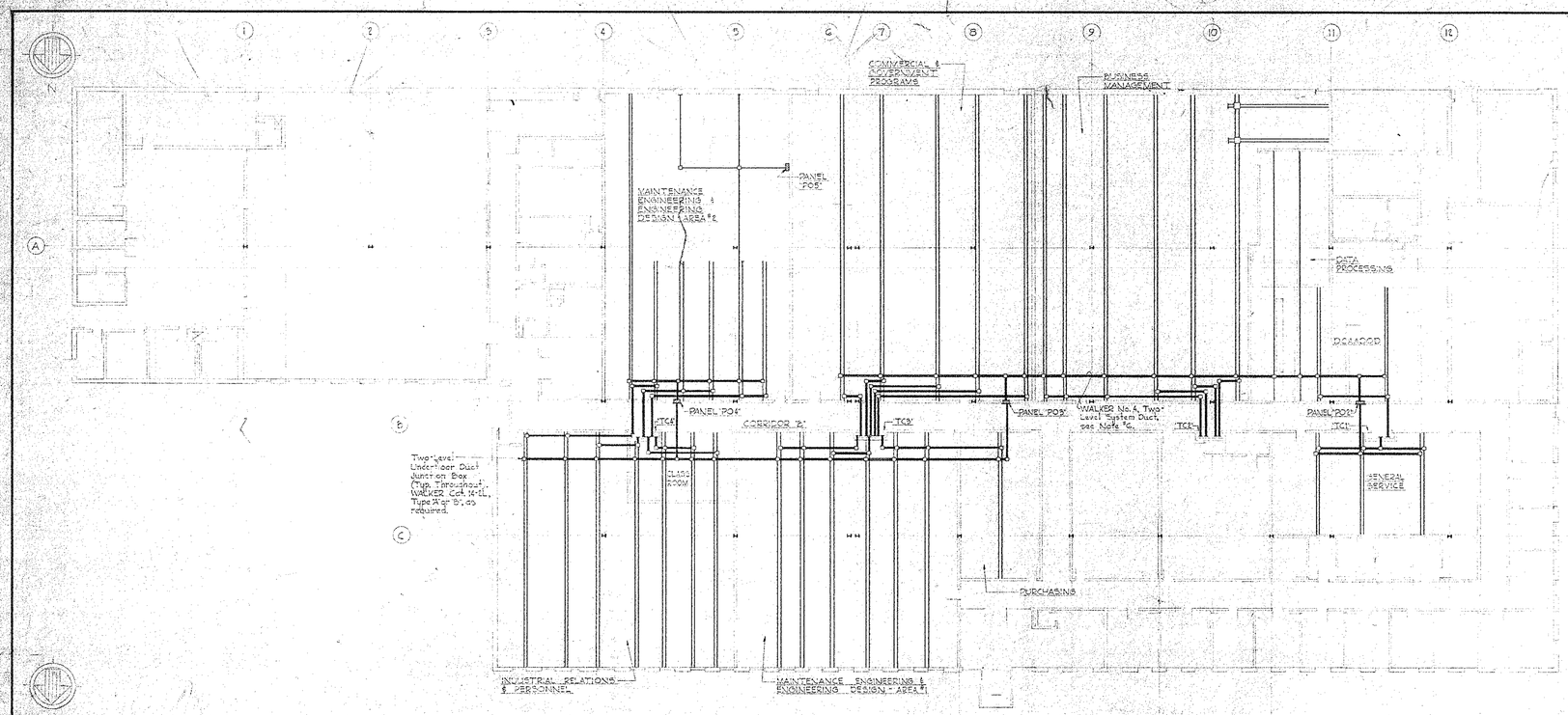
THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL-DEPOT BUILDING
SWITCHBOARD LAYOUT, POWER RISER, & WIRING DIAGRAMS

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS — BALTIMORE, MARYLAND
BY _____ DATE: 1-20-69

DRAWN BY HH	APPROVED BY	CONSTRUCTION PROJECT NUMBER CST 67-11
CHECKED BY PD	B.F.E.C.	SHEET NO. E-7 OF 32

W.O. 6117-2

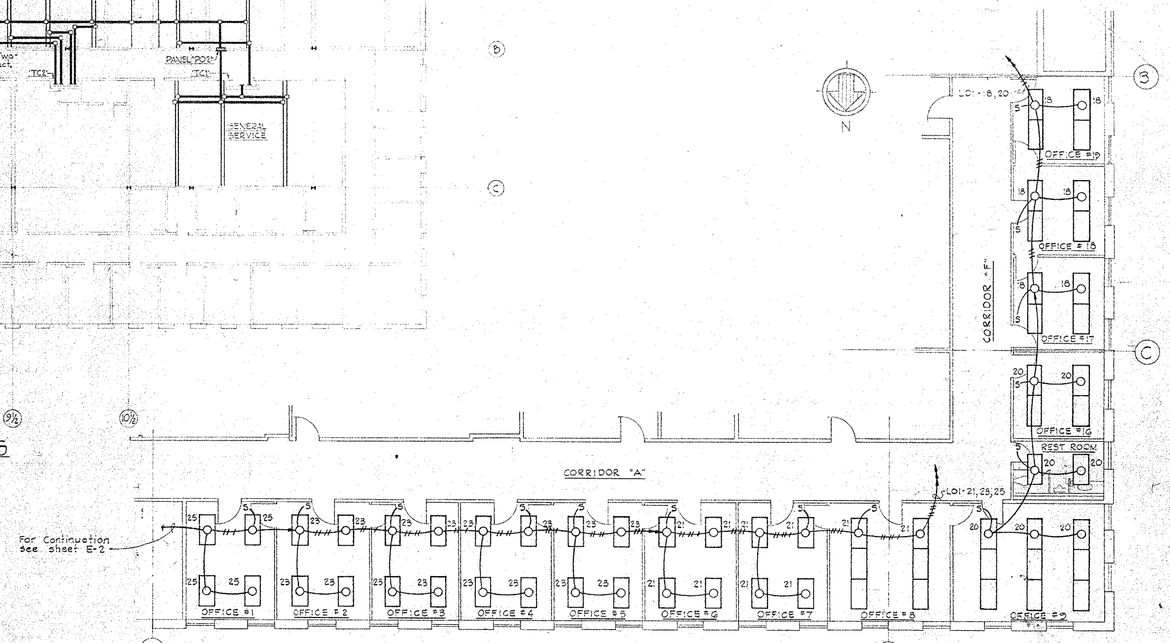


PLAN - OFFICE BUILDING

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

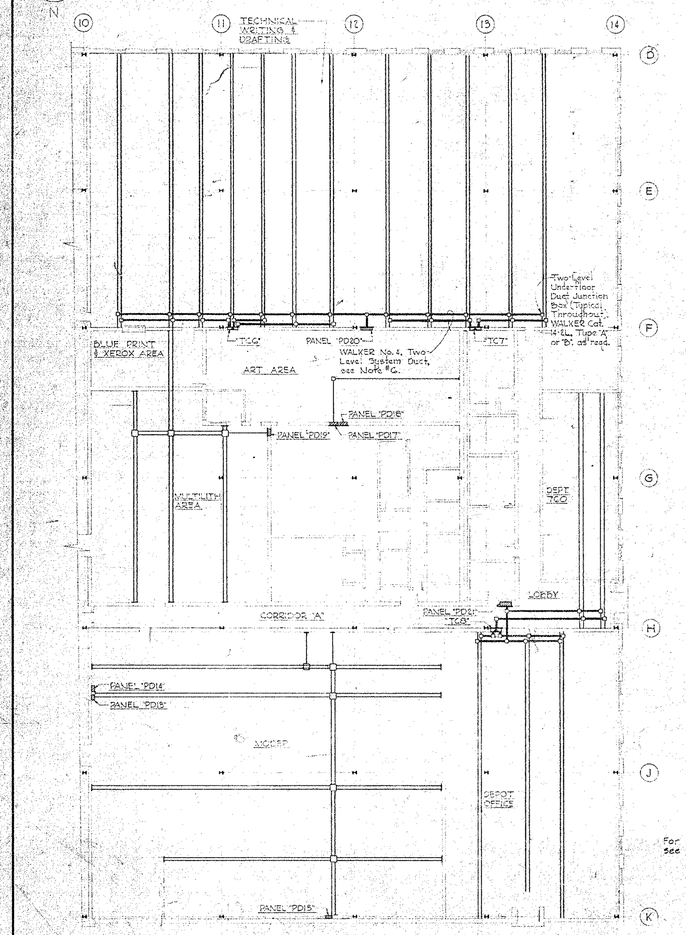
NOTES

1. For LEGENDS & GENERAL ELECTRICAL NOTES, see Sheet E-1.
2. Telephone Cabinets "TC5", "TC6", "TC7" & "TC8" - 20"w. x 16"h. x 6"d.
3. For the complete Underfloor Duct System, Power and Telephone Layouts, see Sheets E-3 & E-6.
4. Make connections to panelboards & terminal cabinets with terminal buttings. Vertical runs for panelboards & telephone cabinets concealed in wall.
5. Install above & turnup all underfloor ducts terminating in telephone closets.
6. All underfloor ducts terminating in telephone cabinets, telephone outlets or panelboards shall be WALKER No. 4 or approved equal. This sketch supersedes Trench Header System as shown on Sheets E-3 & E-6.



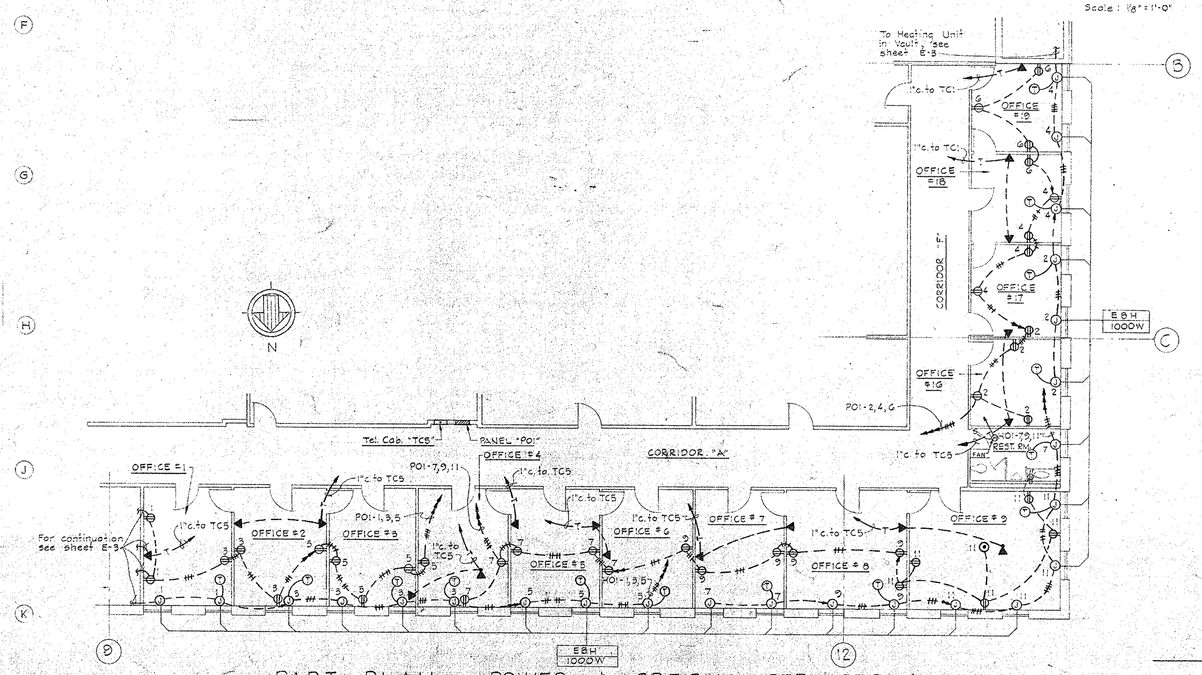
PART PLAN - LIGHTING △

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



PART PLAN - DEPOT BUILDING

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



PART PLAN - POWER & SPECIAL SERVICES △

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

DATE	NO.	REMARKS	BY
7-1-70		As Built	
2-7-69	△	Added Lighting and Power Part Plans	J.A.Z.

REVISIONS

THE BENDIX FIELD ENGINEERING CORPORATION
OFFICE AND DEPOT BUILDINGS
COLUMBIA, MARYLAND

ELECTRICAL - OFFICE & DEPOT BUILDINGS
TWO LEVEL UNDERFLOOR DUCT DISTR. SYSTEM

WHITMAN, REQUARDT AND ASSOCIATES
CONSULTING ENGINEERS
BALTIMORE, MARYLAND
BY: [illegible]
DATE: 2-21-69

DRAWN BY	APPROVED BY	CONSTRUCTION PROJECT NUMBER
HH		OST 67-11
CHECKED BY DS	B.F.E.C.	SHEET NO. E-8 OF 32

W.O.'s 6115-2 & 6117-2