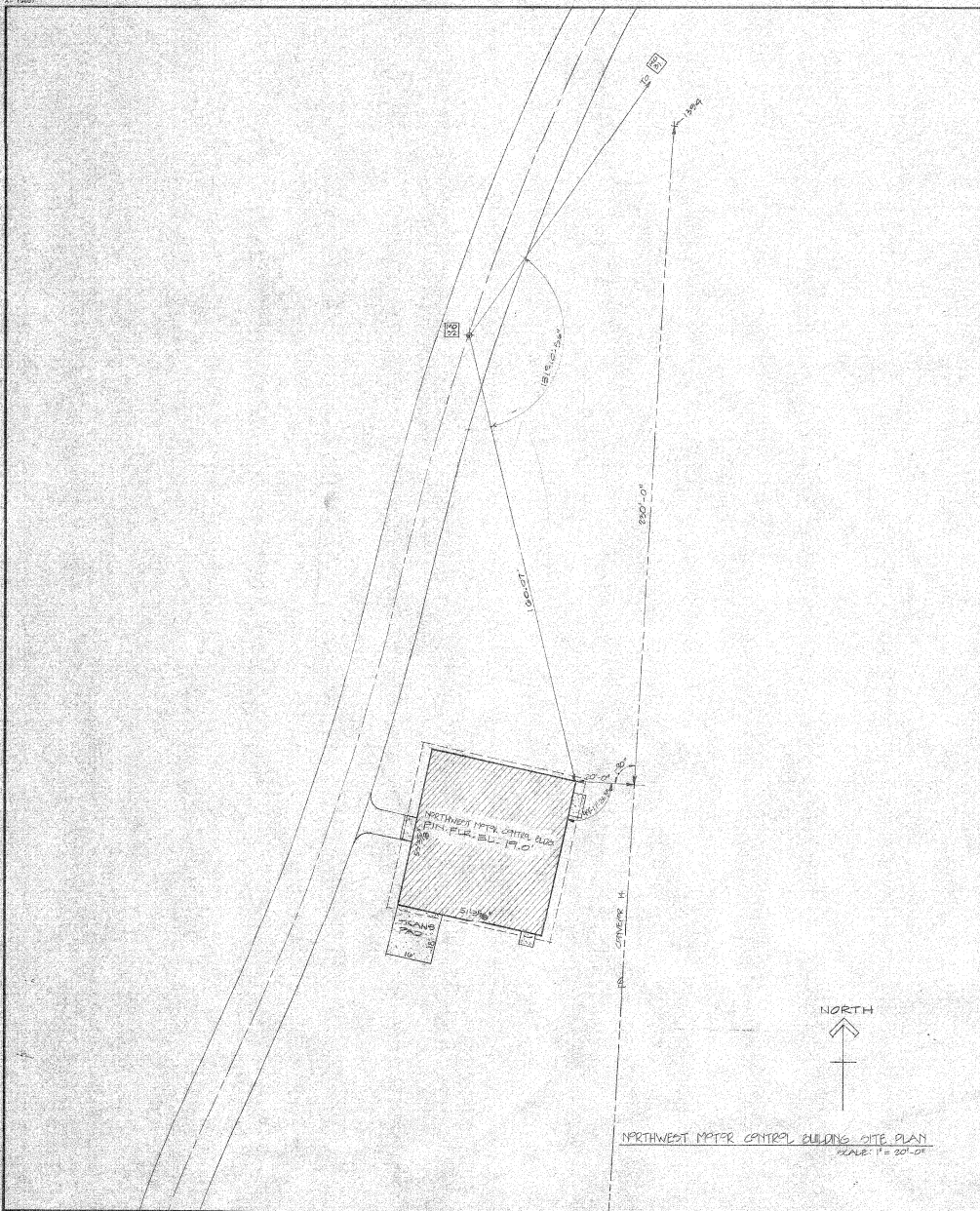
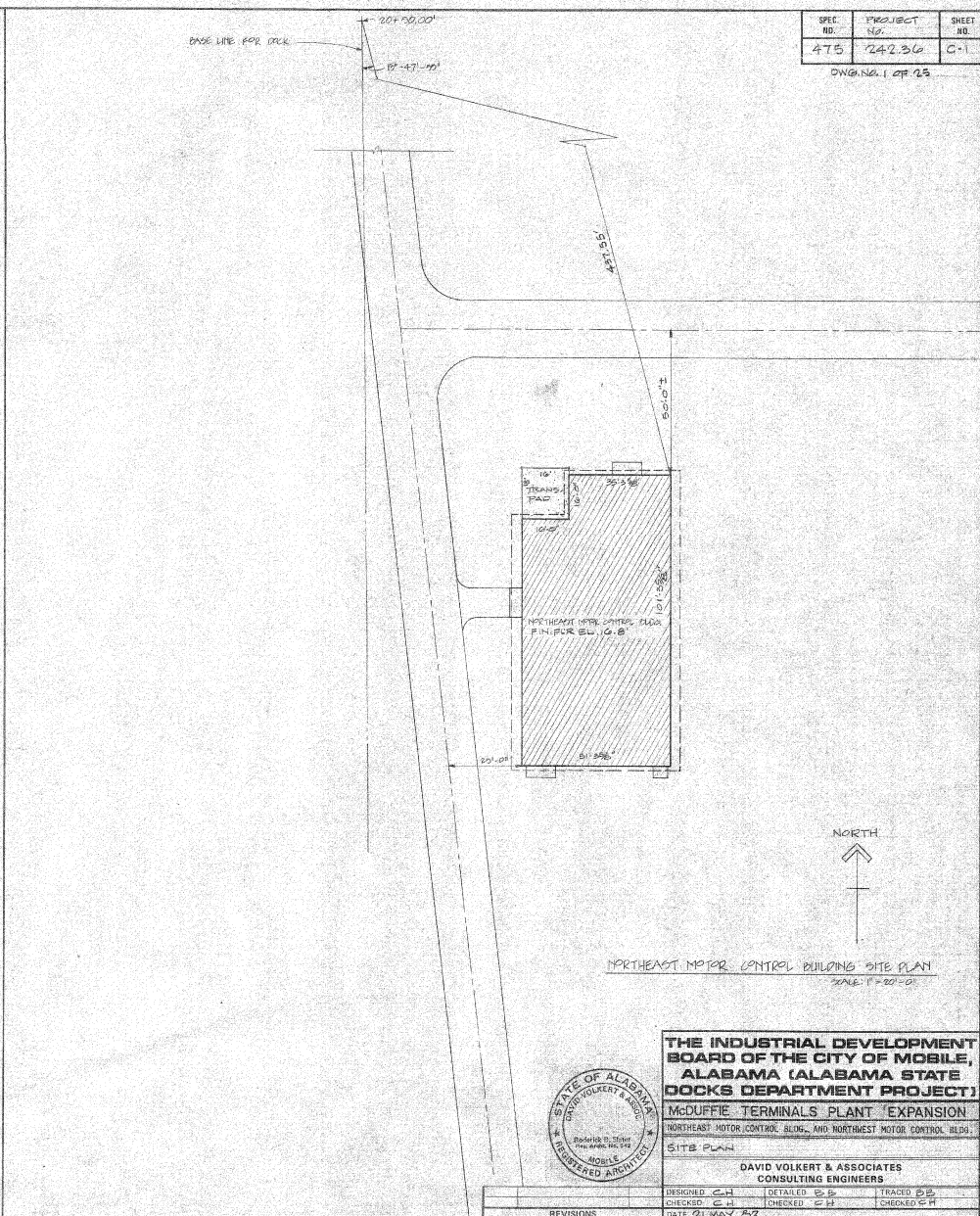


SPEC. NO.	PROJECT	SHEET NO.
475	724236	C-1

DWG. NO. 1 OF 25



NORTHWEST MOTOR CONTROL BUILDING SITE PLAN
SCALE: 1" = 20'-0"



NORTHEAST MOTOR CONTROL BUILDING SITE PLAN
SCALE: 1" = 20'-0"



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

McDUFFIE TERMINALS PLANT EXPANSION
NORTHEAST MOTOR CONTROL BLDG. AND NORTHWEST MOTOR CONTROL BLDG.

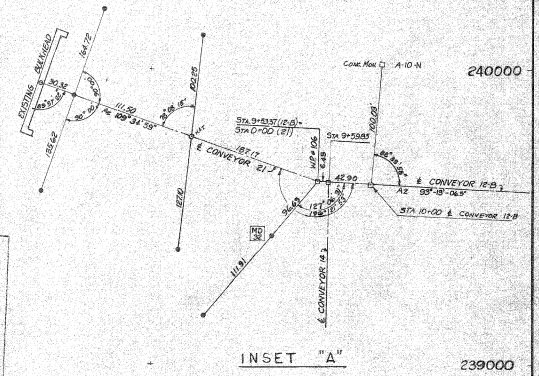
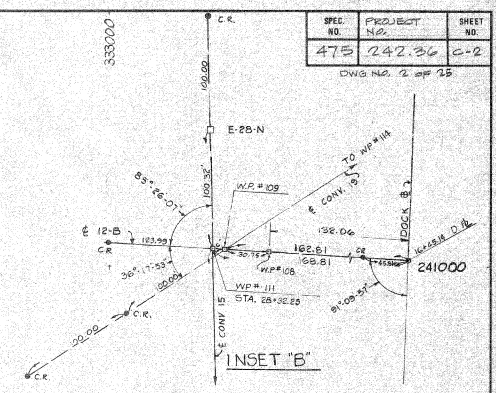
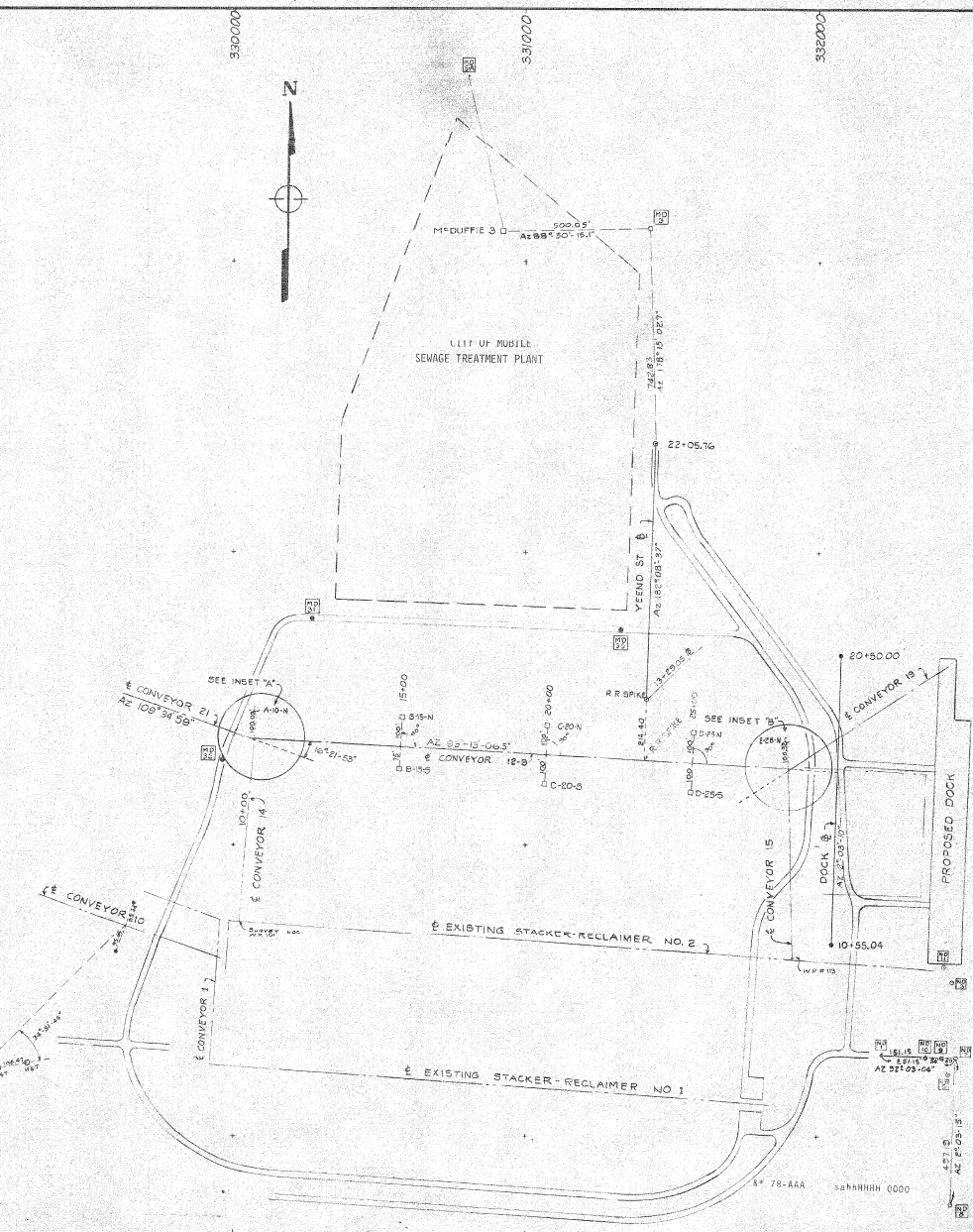
SITE PLAN

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED: C.H.	DETAILER: S.B.	TRACED: D.B.
CHECKED: G.H.	CHECKED: S.H.	CHECKED: G.H.
DATE: 21 MAY 82		

REVISIONS

POINT NUMBER	TYPE MARKER	COORDINATES		ELEV'S.	REMARKS
		NORTH	EAST		
22+05.76	R.R. SPIKE	240373.72	331447.30		YEEND ST. <u>B</u>
13+29.05	R.R. SPIKE	239497.62	331414.50		YEEND ST. <u>B</u>
20+50.00	CAPPED ROD	239650.68	332082.98	11.347	DOCK <u>B</u>
10+55.04	CAPPED ROD	238656.36	332047.34	14.171	DOCK <u>B</u>
MCDUFF 3	CONC. MON.	241106.06	330924.67		
M.D. 3	CONC. MON.	241116.20	331424.62		YEEND ST.
M.D. 32	CAPPED ROD	239287.46	329961.47	16.765	
M.D. 31	CAPPED ROD	239771.55	330269.25	15.39	PAVED ROAD
M.D. 30	CAPPED ROD	239737.00	331328.37	15.728	PAVED ROAD
9+59.85		239360.75	330030.49		12-B & CONV. 14
A 10-N	CONC. MON.			6.433	
ND-9	TACK IN LEAD WOOD	238,270.81	332,423.68		DOCK CONTROL
W.P. 111		239255.63	331899.93		12-B & CONV. 15
C-28-N	CONC. MON.			12.649	
ND-10	TACK IN LEAD WOOD	238,272.60	332,373.71		DOCK CONTROL
W.P. 106		239361.11	330024.02		12-B & CONV. 21
W.P. 109		239255.29	331905.92		CONV. 19
W.P. 101		238733.60	330019.43		CONV. 14 (FIELD LOC.)
W.P. 114		236609.58	332449.82		CONV. 19
W.P. 113		238606.12	331915.20		CONV. 15
CONV. 21		239518.63	329614.63		CONV. 21
B-15-N	CONC. MON.			12.139	
B-15-S	CONC. MON.			12.128	
C-20-N	CONC. MON.			12.637	
C-20-S	CONC. MON.			11.321	
D-25-N	CONC. MON.			15.490	
D-25-S	CONC. MON.			13.651	
ND-1	TACK IN LEAD WOOD	238,278.01	332,222.65		DOCK CONTROL
ND-7	TACK IN LEAD WOOD	238,269.02	332,473.65		DOCK CONTROL
ND-8	TACK IN LEAD WOOD	237,772.16	332,455.82		DOCK CONTROL
BM 21-A	SOUTHEAST COR. BULKHEAD	75° SOUTH	CONV. 21	9.51	PAINTED RED



- LEGEND
- TACK IN LEAD WOOD
 - CONCRETE MONUMENT
 - CAPPED ROD
 - HUB AND TACK
 - +

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

MCDUFFIE TERMINALS PLANT EXPANSION

INC. INT., TARDUMPER, AND BARGE UNLOADER MOTOR CONTROL BUILDINGS

SURVEY CONTROL PLAN

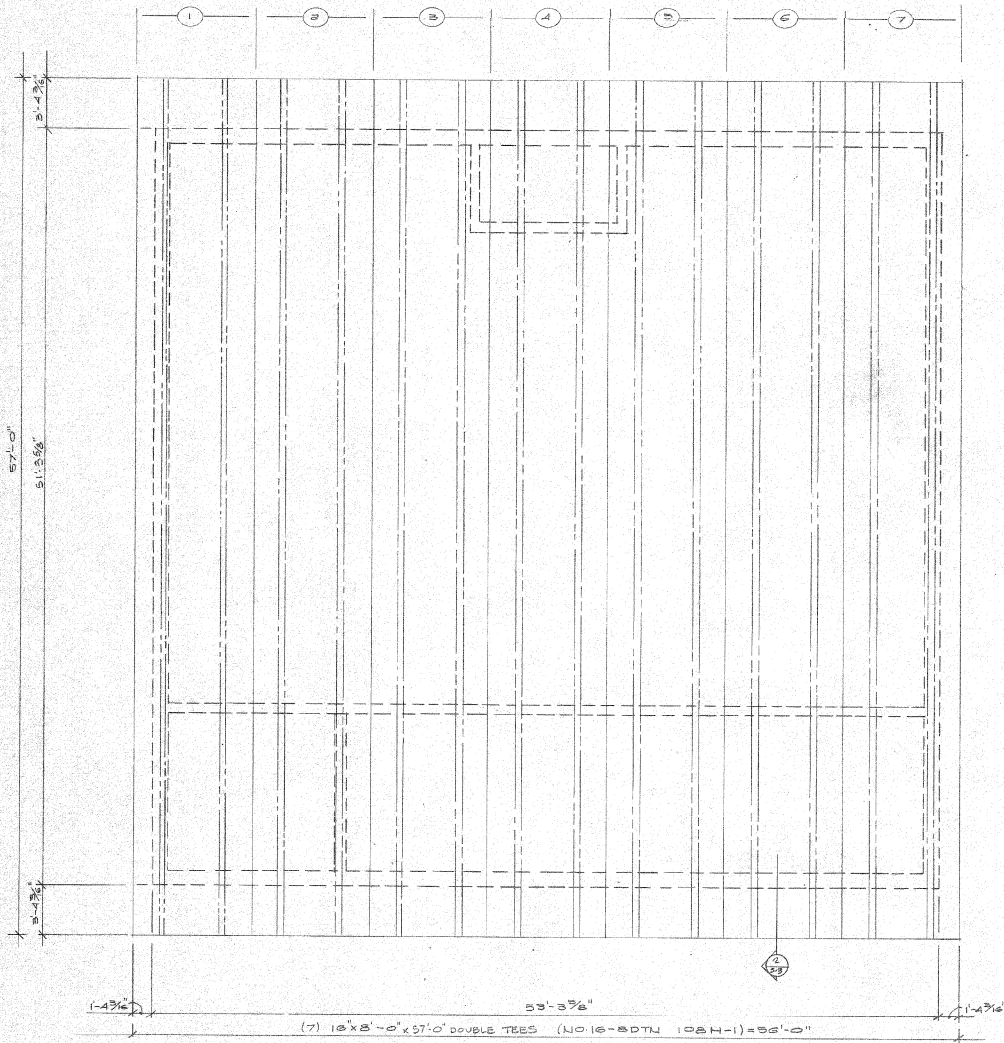
DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

1-1-88	REV. E.L. MD 31	E.B.	
2-18-88	BY T.C.A.	E.B.	
3-1-88	COORD. W.P. 106	J.O.M.	
3-1-88	REV. INSETS 'A' & 'B'	E.B.	
3-1-88	REV. M.D. 30 & M.D. 31	E.B.	
3-16-81	D-25-N	J.O.M.	DESIGNED
3-14-81	COORD. M.P. NO. 108	E.B.	CHECKED

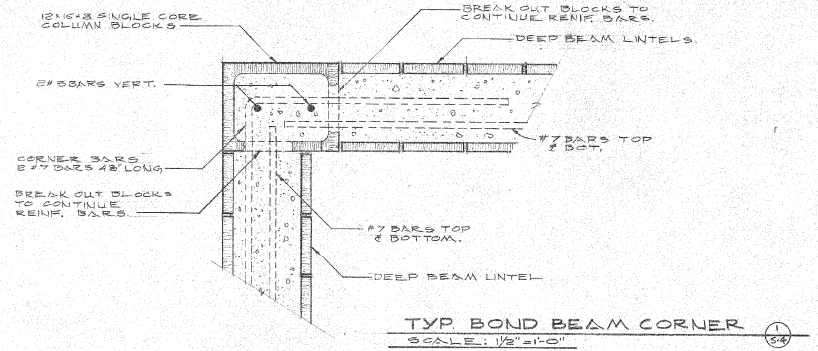
REVISIONS DATE 10-18-81 SCALE 1"=200'

SPEC. NO.	PROJECT NO.	SHEET NO.
475	24236	54

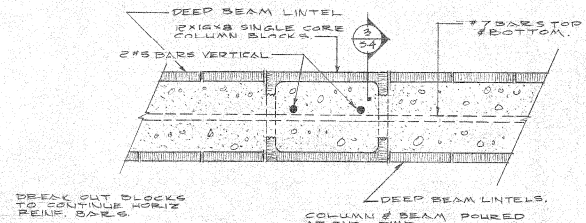
DWG. NO. 11 OF 25



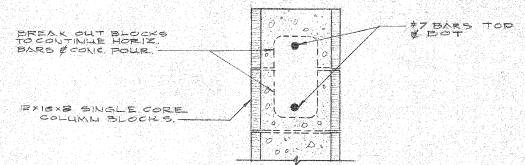
ROOF PLAN.
SCALE: 1/4" = 1'-0"



TYP BOND BEAM CORNER
SCALE: 1/2" = 1'-0" 1-3/4



TYP DETAIL BOND BEAM @ COLUMNS
SCALE: 1/2" = 1'-0" 2-3/4



SECTION
SCALE: 1/2" = 1'-0" 3-3/4

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

McDUFFIE TERMINALS PLANT EXPANSION

HE., NW., CARSHIPPER, AND BARGE UNLOADER MOTOR CONTROL BUILDINGS

N.W. MOTOR CONTROL BUILDINGS/RAIL FRAMING PLAN

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

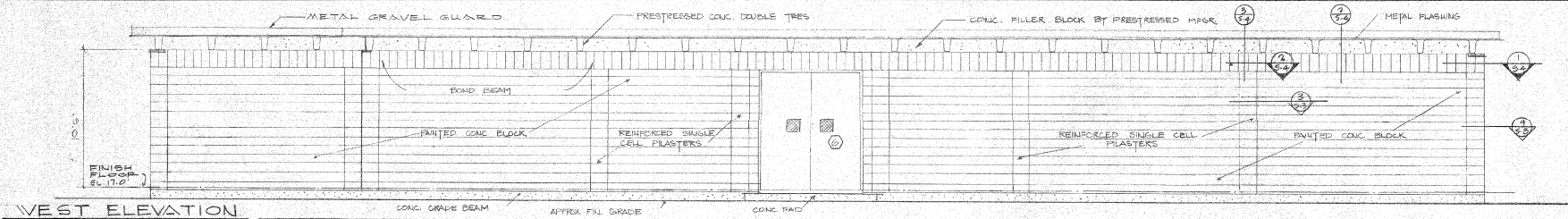
DESIGNED	DATE	DETAILED	DATE	TRACED	NO.
SGC		SGC		NS	
CHECKED	SGC	CHECKED	GH	CHECKED	GH

REVISIONS

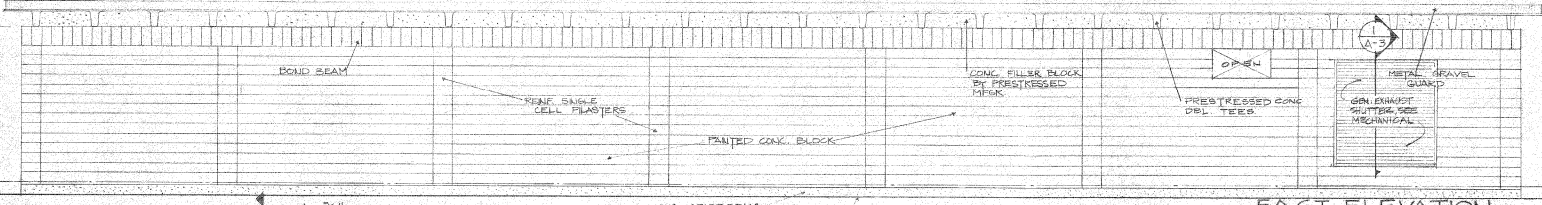
DATE 21 MAY 52

47-1827

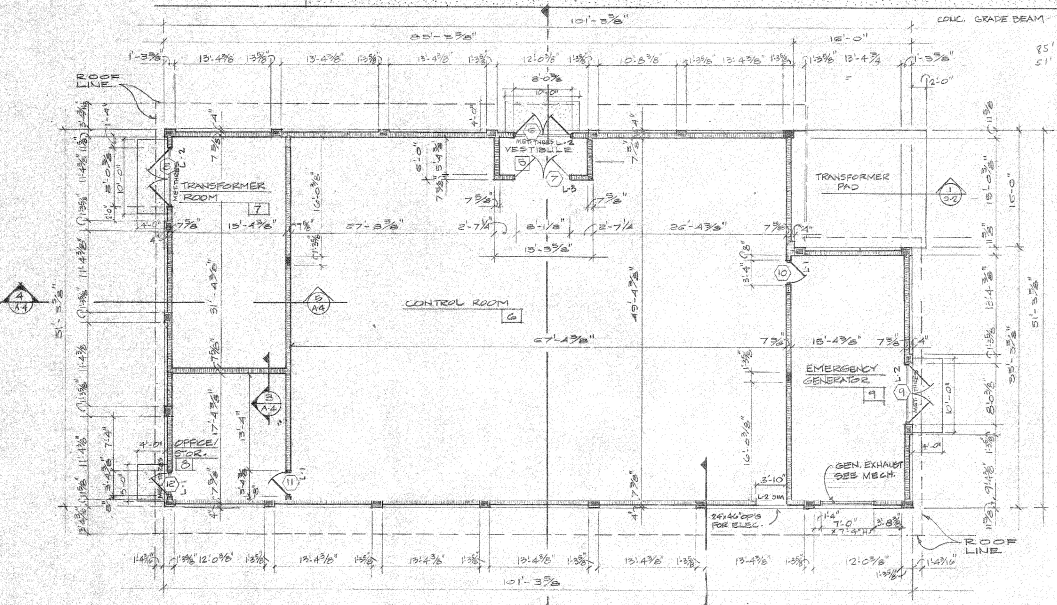
SPEC. NO.	PROJECT NO.	SHEET NO.
475	242.30	A-1
DWG. NO. 3 OF 25		



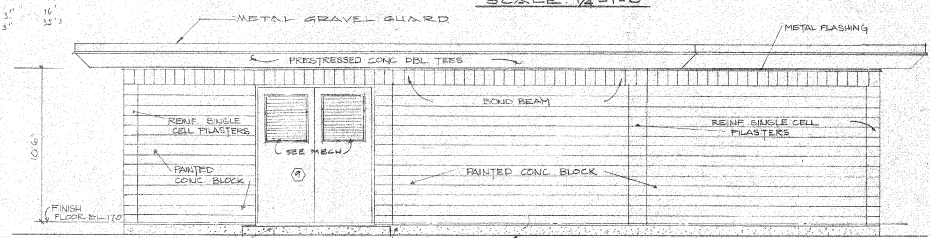
WEST ELEVATION
SCALE: 1/4"=1'-0"



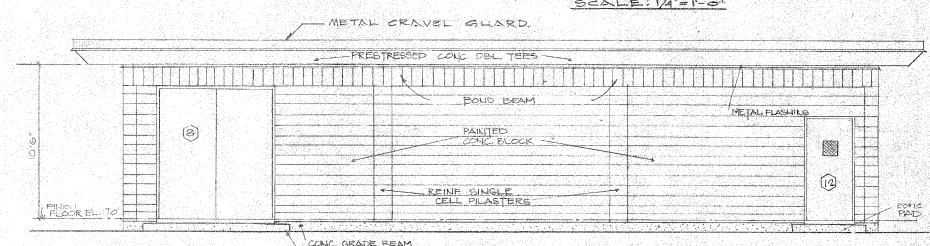
EAST ELEVATION
SCALE: 1/4"=1'-0"



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



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



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

- LINTEL SCHEDULE**
- L-1 3'-4 1/2" OPENING 8" THICK x 8" DEEP LINTEL BLOCK W/ 2" B.S. FILL W/ CONG.
 - L-2 6'-0 1/2" OPENING 12" THICK x 16" DEEP LINTEL BLOCKS W/ FIT TOP AND BOTTOM FILL W/ CONG. (BOND BEAM)
 - L-3 8'-0 1/2" OPENING 8" THICK x 8" DEEP LINTEL BLOCK W/ 2" B.S. FILL WITH CONG.



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

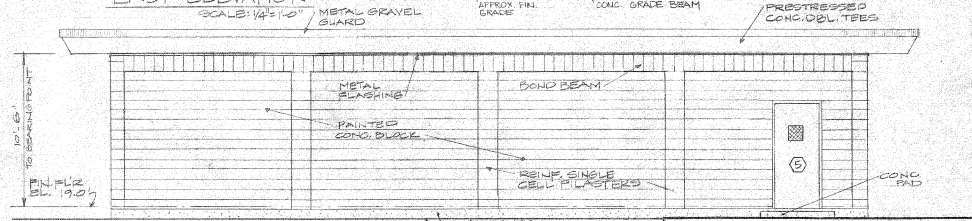
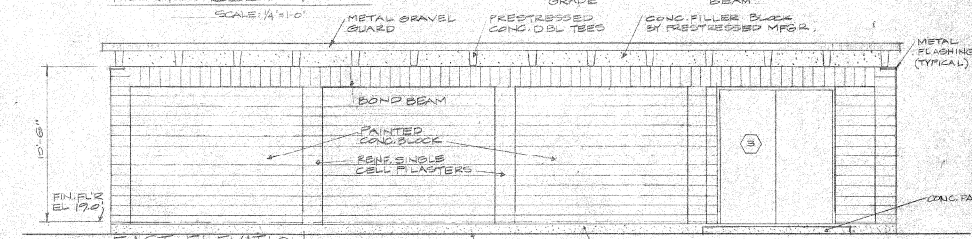
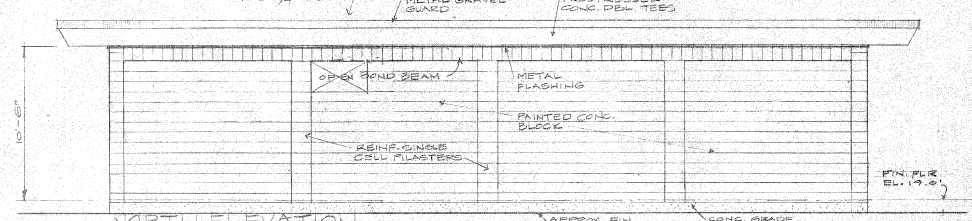
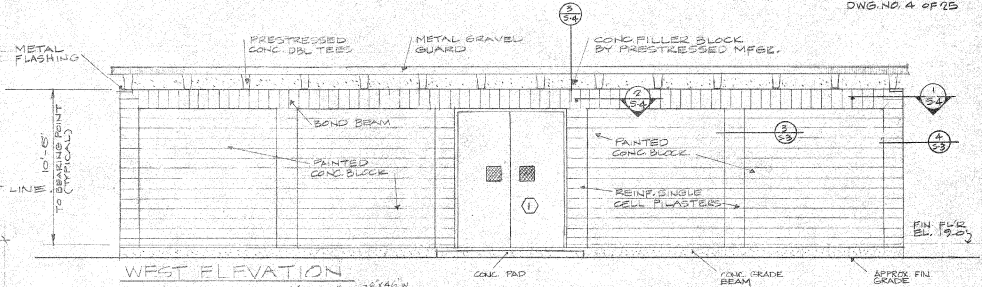
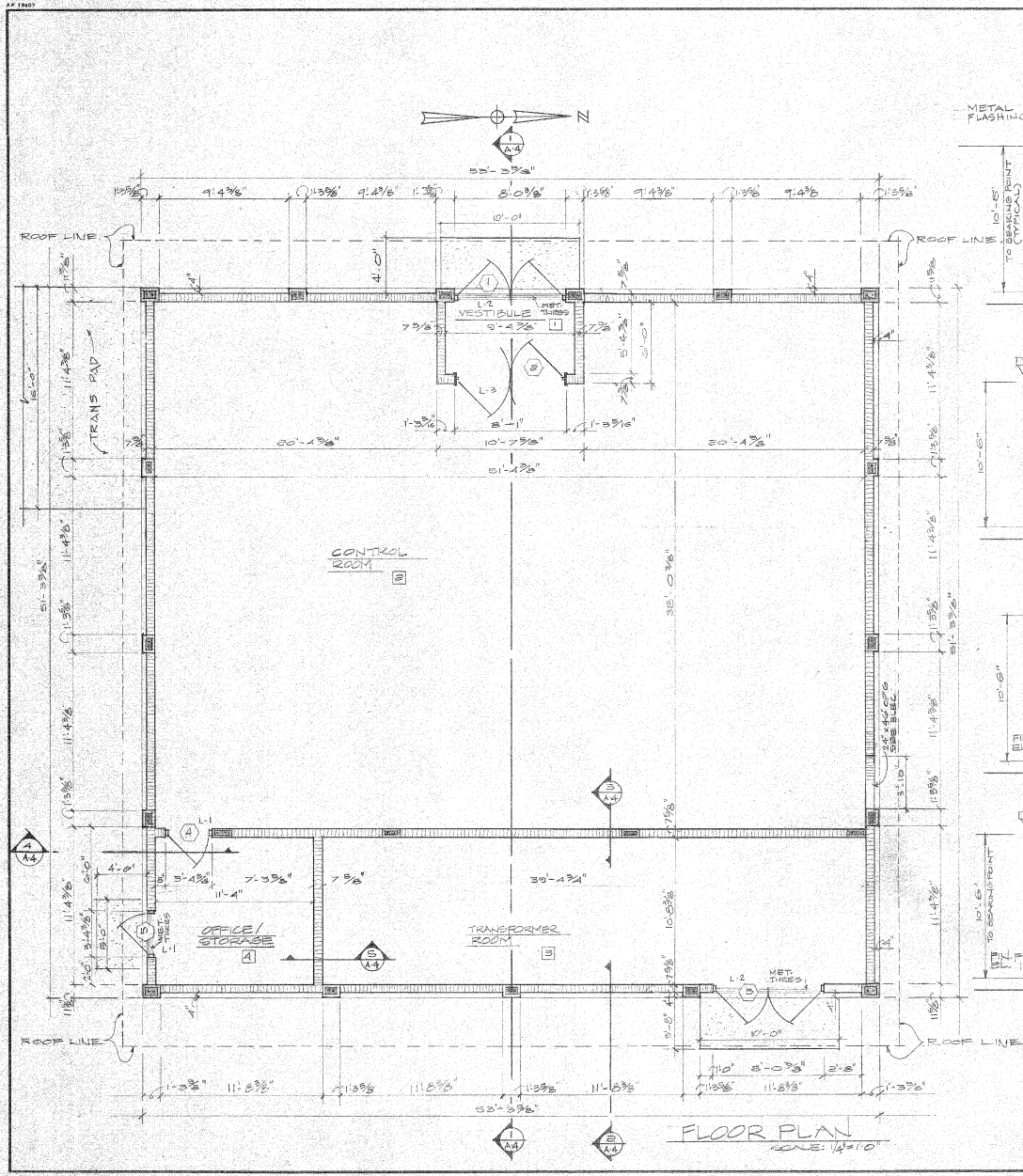
McDUFFIE TERMINALS PLANT EXPANSION
NE. NW. CARGOPIPER, AND GARGE UNLOADER MOTOR CONTROL BUILDINGS
N.E. MAJOR CONTROL BUILDING
FLOOR PLAN AND ELEVATIONS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	SR	DETAILED	N.S.	TRACED	N.S.
CHECKED	CH	CHECKED	CH	CHECKED	CH
DATE	21 MAY 82				

SPEC. NO.	PROJECT NO.	SHEET NO.
475	24236	A-2

DWG. NO. 4 OF 25



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

McDUFFIE TERMINALS PLANT EXPANSION

NEW, IN, CAROUSEL, AND BARGE UNLOADER MOTOR CONTROL BUILDINGS

FLOOR PLAN & ELEVATIONS

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED	BY	DATE	21 MAY 82
CHECKED	BY	DATE	
TRACED	BY	DATE	
CHECKED	BY	DATE	

ROOM FINISH SCHEDULE

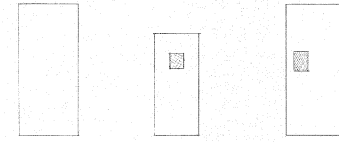
MARK ON DRAWINGS	DESIGNATION	FLOOR		BASE		WAINSCOT		WALL		CEILING		TRIM		CEILING HEIGHT	REMARKS		
		1	2	3	4	1	2	3	4	1	2	3	4			5	6
NEW BUILDING	1 VESTIBULE																
	2 CONTROL ROOM																
	3 TRANSFORMER ROOM																
	4 OFFICE/CONTROL																
NEW BUILDING	5 VESTIBULE																
	6 CONTROL ROOM																
	7 TRANSFORMER ROOM																
	8 OFFICE/CONTROL																
	9 EMERGENCY GENERATOR																
	10 CONTROL ROOM																

DOOR SCHEDULE

SPEC NO.	PROJECT NO.	SHEET NO.
475	242.36	A-3

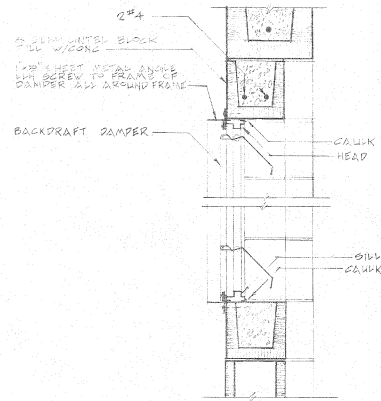
DWG. NO. 5 OF 25

MARK ON DRAWINGS	SIZE	THICKNESS	DOOR TYPE MARK	DOOR MATERIAL		FRAME MAT.	GLASS					THRESHOLD		DETAIL NO.			SHEET NO. FOR DETAIL	LUNTEL MARK	HARDWARE MARK	L LABEL	REMARKS
				1	2		1	2	3	4	5	1	2	3	4	5					
1	4'-0" x 7'-0"	1 1/2"	C	1																	
2	4'-0" x 9'-0"	1 1/2"	C	1																	
3	4'-0" x 9'-0"	1 1/2"	A	1																	
4	4'-0" x 7'-0"	1 1/2"	B	1																	
5	4'-0" x 7'-0"	1 1/2"	B	1																	
6	4'-0" x 9'-0"	1 1/2"	C	1																	
7	4'-0" x 9'-0"	1 1/2"	C	1																	
8	4'-0" x 9'-0"	1 1/2"	A	1																	
9	4'-0" x 9'-0"	1 1/2"	A	1																	
10	4'-0" x 7'-0"	1 1/2"	B	1																	
11	4'-0" x 7'-0"	1 1/2"	B	1																	
12	4'-0" x 7'-0"	1 1/2"	D	1																	
13	4'-0" x 9'-0"	1 1/2"	C	1																	
14	4'-0" x 7'-0"	1 1/2"	B	1																	

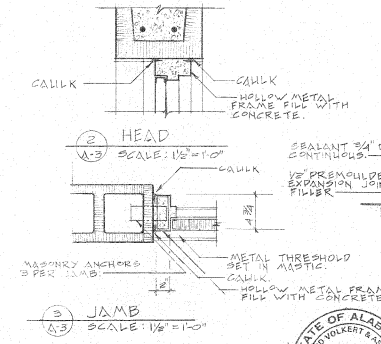


DOOR TYPE 'A' DOOR TYPE 'B' DOOR TYPE 'C'

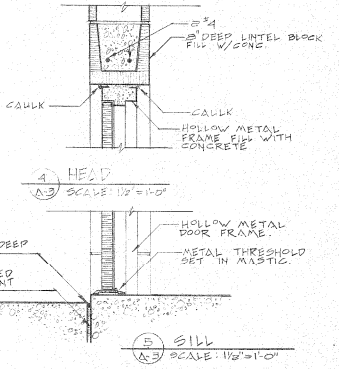
DOOR ELEVATIONS
SCALE: 1/2" = 1'-0"



SECTION THRU BACKDRAFT DAMPER
SCALE: 1/2" = 1'-0"



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



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

PAINT SCHEDULE				
MK.	1ST COAT	2ND COAT	3RD COAT	4TH COAT
A	PRIMER SEALER	HIGH BUILD EPOXY		
D	PRIMER SEALER	PRIMER SEALER	HIGH BUILD EPOXY	
C	CHPT COAT	HIGH BUILD EPOXY		



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

McDUFFIE TERMINALS PLANT EXPANSION
NE, NW, CASUMBER, AND BARGE UNLOADER MOTOR CONTROL BUILDINGS

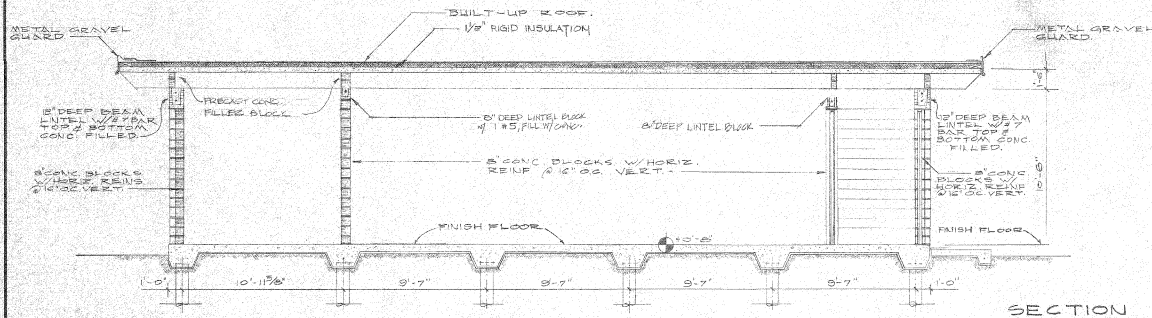
FINISH SCHEDULE, DOOR SCHEDULES AND DETAILS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

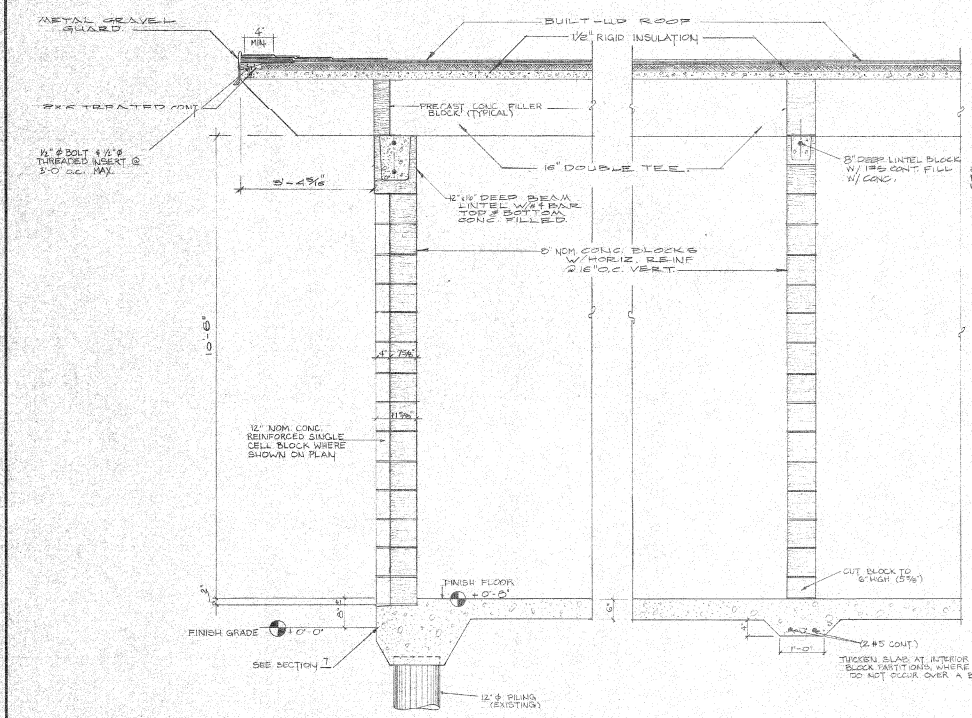
DESIGNED: CH DRAWN: BB
CHECKED: CH CHECKED: CH

REVISIONS	

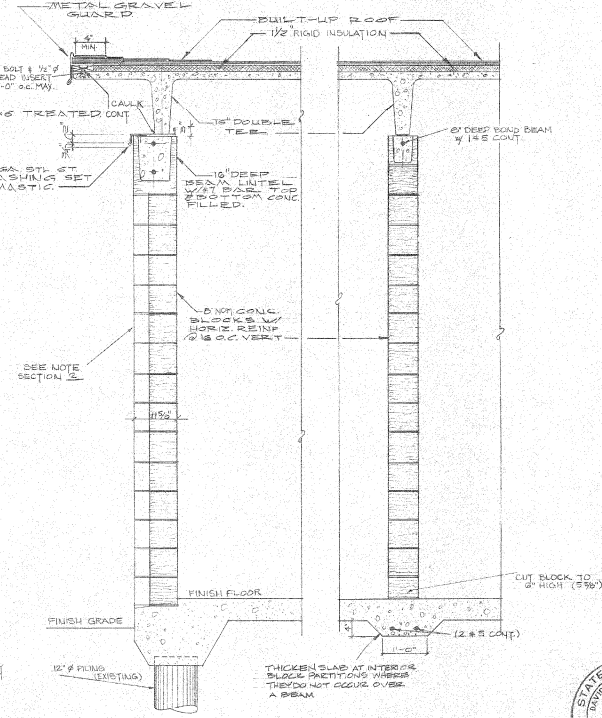
SPEC. NO.	PROJECT NO.	SHEET NO.
475	242.30	A.4
DWG. NO. 6 OF 25		



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



SECTION 2
SCALE 3/4" = 1'-0"



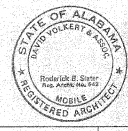
SECTION 3
SCALE 3/4" = 1'-0"



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



SECTION 5
SCALE 3/4" = 1'-0"

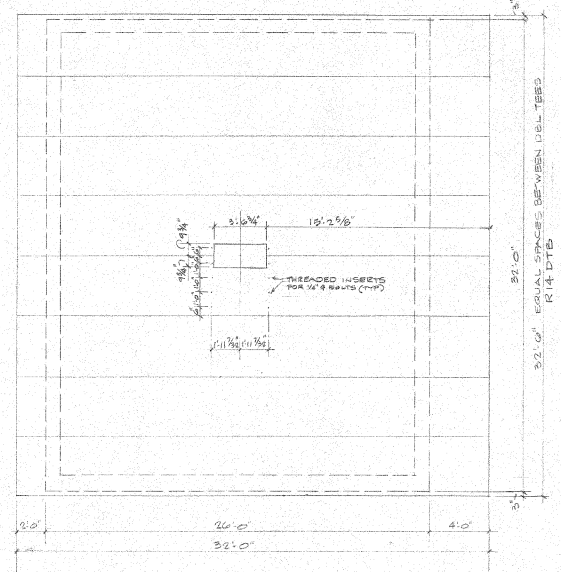
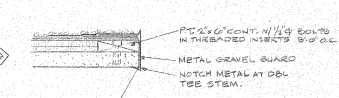
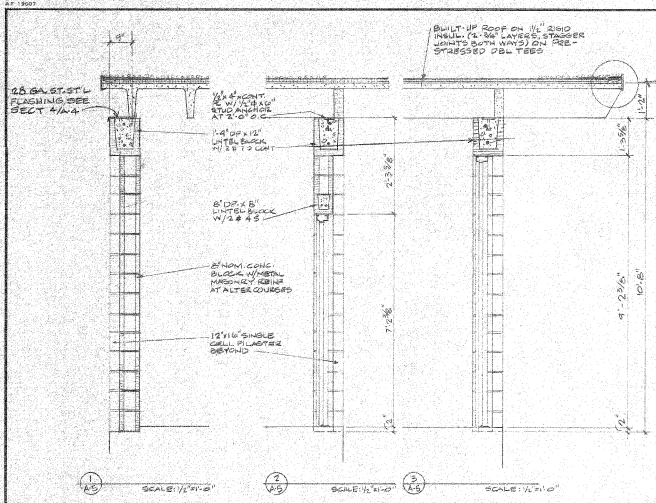


THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

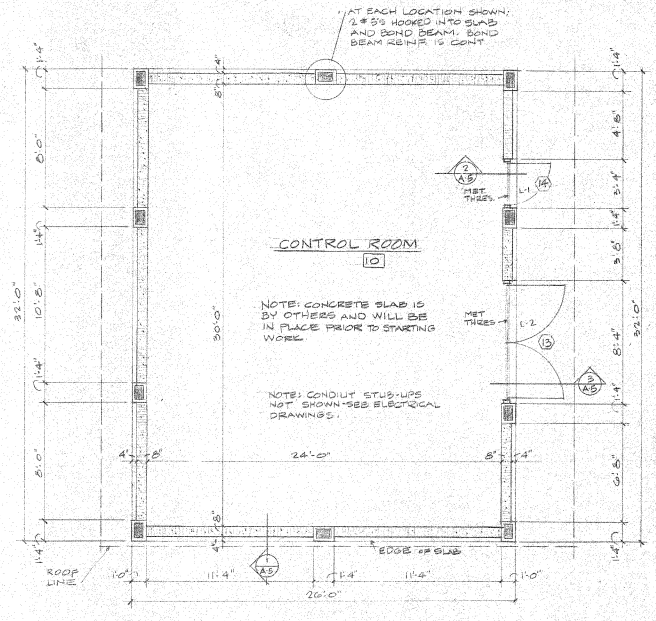
McDUFFIE TERMINALS PLANT EXPANSION
NE, NW, CARDUMPER, AND BARGE UNLOADER MOTOR CONTROL BUILDINGS
SECTIONS AND DETAILS/NW BUILDING SECTION

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

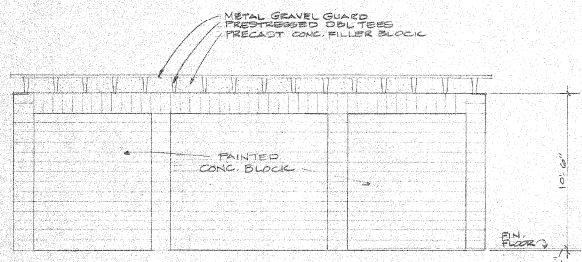
DESIGNED	BY	TRACED	BY
CHECKED	BY	CHECKED	BY
DATE 21 MAY 87		DATE 21 MAY 87	



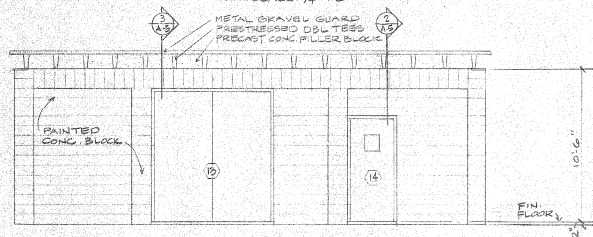
ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



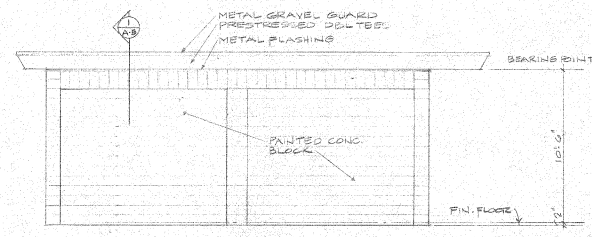
FLOOR PLAN
SCALE: 1/4" = 1'-0"



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



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



SOUTH ELEVATION
SCALE: 1/4" = 1'-0"
NORTH ELEVATION IS OPP. HAND



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)
MS DUFFIE TERMINAL PLANT EXPANSION
NO. 14, CRANFORD, AND BARGE UNLOADER MOTOR CONTROL BUILDINGS
FLOOR PLAN, ELEVATIONS, FRAMING PLAN, DETAILS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	CH	DETAILED	CH	TRACED	CH
CHECKED	CH	CHECKED	CH	CHECKED	CH
REVISIONS		DATE 21 MAY 2012			

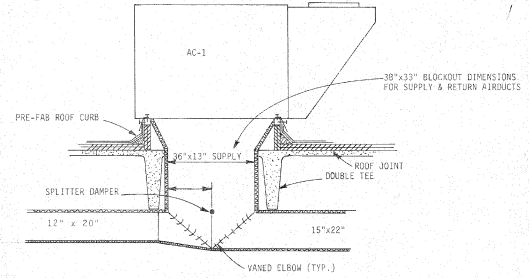
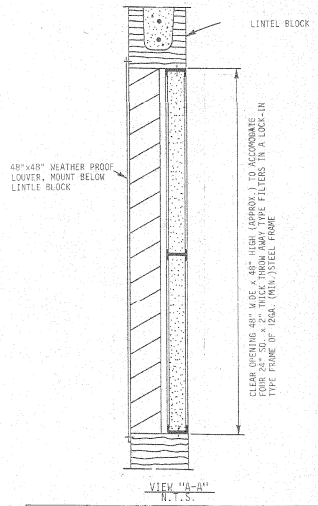
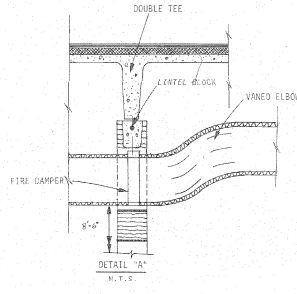
SPEC. NO.	SHEET NO.
475	M-1

DWG NO. 12 OF 25

A.C. SCHEDULE

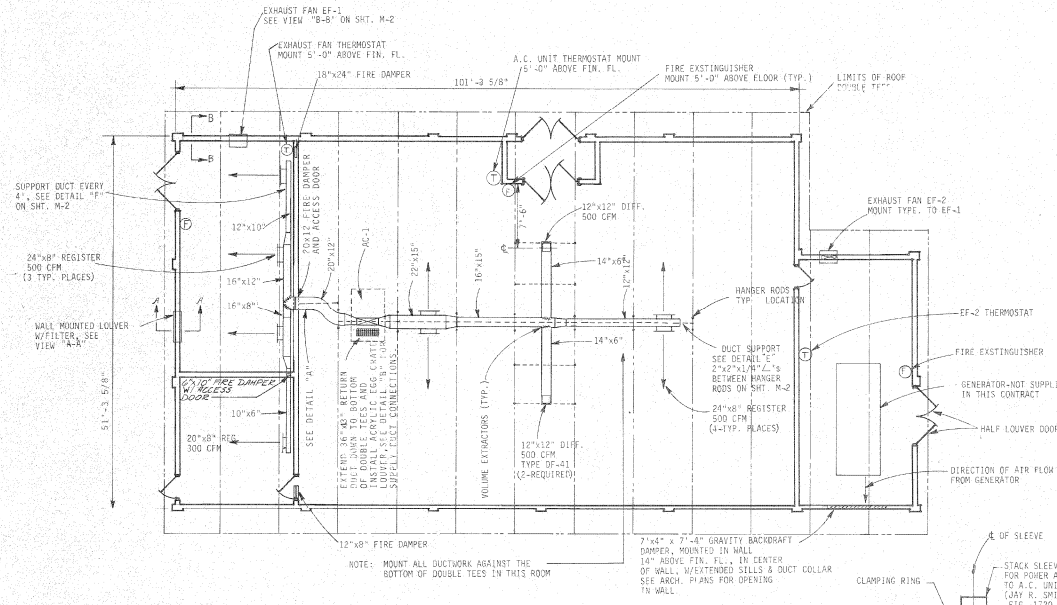
AC-1 & 2 PACKAGED ROOF TOP A.C. SHALL BE TRANE MODEL SACC-C134, OR APPROVED EQUAL. UNIT SHALL BE RATED AT 120,000 BTUH (NOMINAL) AT A.R.I., CONDITIONS, AND A HEATING INPUT OF 45 KW. THE UNIT SHALL OPERATE ON 480 VOLTS, 3-PHASE, 60 HZ POWER. THE UNIT SHALL BE ARRANGED WITH A TIME DELAY, ANTI-SHORT CYCLE TIMER, LOW AMBIENT MECHANICAL COOLING TO 0° F., TWO STAGES OF HEATING & COOLING, MANUAL 0-25 PERCENT OUTSIDE AIR WOOD, CRANK CASE HEATERS, ~~BY THERMOSTAT~~ A MINIMUM OF TWO COMPRESSORS AND TWO SEPARATE REFRIGERANT CIRCUITS. THE UNIT AND CURB SHALL BE SECURED IN AN APPROVED MANNER TO RESIST A 50 P.S.F. WINDFORCE. THE EVAPORATOR FAN SHALL DELIVER 2000 CFM AT 1 IN.W.G. (EXTERNAL STATIC PRESSURE). FOR ENERGY EFFICIENCY UNIT SHALL HAVE A MINIMUM EER OF 7.6 OR APPROVED EER.

EF-1,2,3 EXHAUST FAN BY LOREN COOK, CAT. NO. 245949 OR APPROVED EQUAL RATED AT 3442 CFM AT 1/4" S.P., 1/3 H.P., 115 V., 1-PHASE, 60 HZ POWER. THE FAN SHALL BE ARRANGED WITH A MOTOR OPERATED SHUTTER AS INDICATED, & SAFETY SCREEN, AND A WALL MOUNTED THERMOSTAT WITH A RANGE OF 80° TO 120° F. NOTE: THIS VENTILATION SYSTEM IS FOR EMERGENCY USE ONLY AND THE THERMOSTAT SHALL BE SET AT A TEMPERATURE HIGH ENOUGH TO SENSE (TRANSFORMER ROOMS ONLY) THAT THE AIR CONDITIONER HAS MALFUNCTIONED, GENERATOR ROOM THERMOSTAT IS SET ON 80° F. ~~SEE SCHEDULE~~ HAVE MAXIMUM PER ZONE RATINGS OF 14.

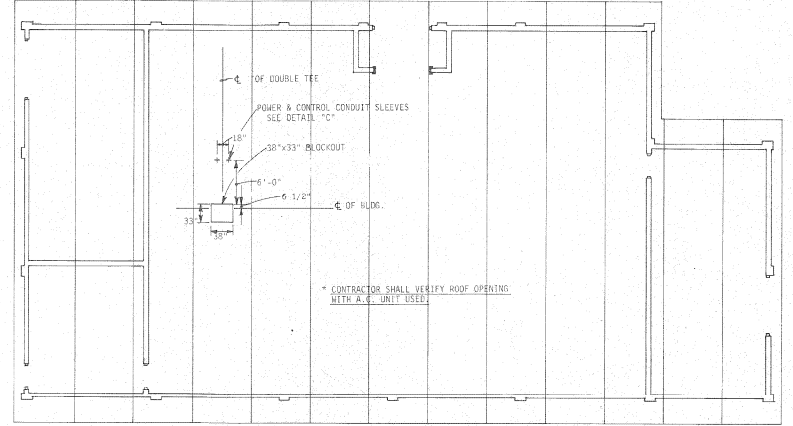


NOTES: 1. MOUNT ALL DUCT WORK UP AGAINST THE BOTTOM OF DOUBLE TEES.
2. MOUNT A.C. UNIT AND ROOF CURB TO RESIST A 50 PSF WIND FORCE.

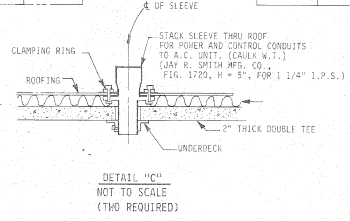
DETAIL 'B'
SUPPLY DUCT CONNECTIONS
SCALE: 1/2" = 1'-0"



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



ROOF PLAN (AC UNIT NOT SHOWN)
SCALE: 1/8" = 1'-0"



DETAIL 'C'
NOT TO SCALE
(THO REQUIRED)

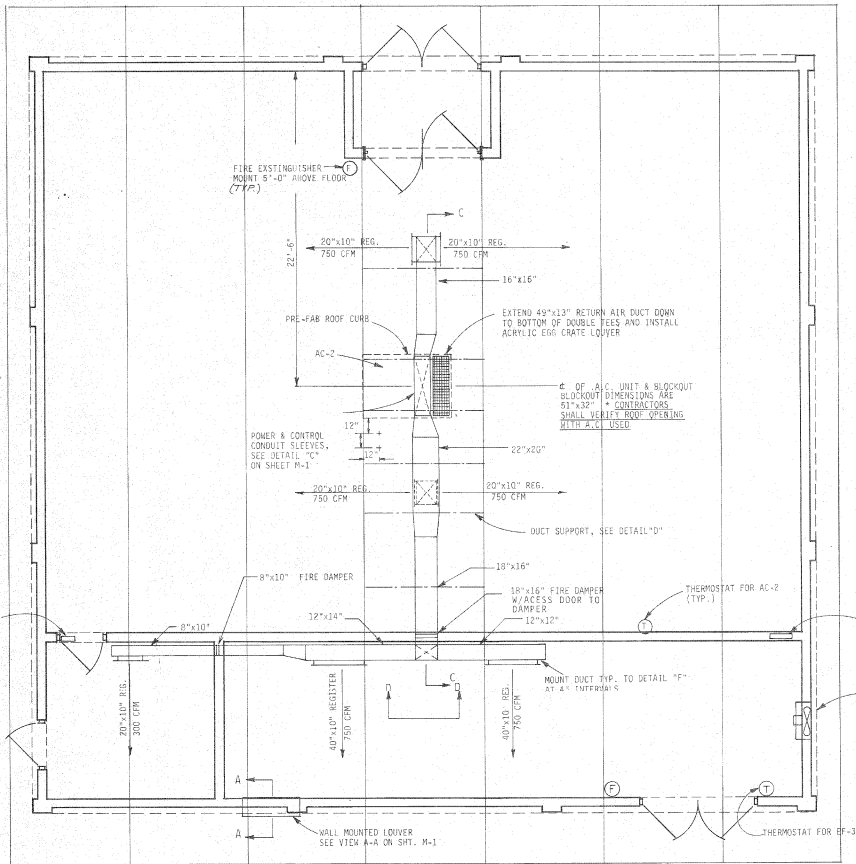
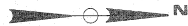
THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

NORTH EAST MOTOR CONTROL BLDG.
MECHANICAL PLAN

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

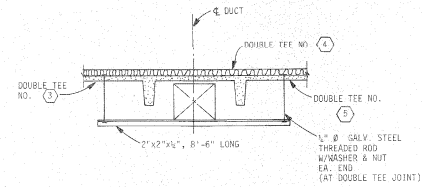
DESIGNED J.H.W.	DETAILED J.L.W.	TRACED M.F.L.
CHECKED D.J.H.	CHECKED O.J.H.	CHECKED D.J.H.
REVISIONS		
DATE 4-15-82		

* A.C. SCHEDULE IS ON SHT. M-1

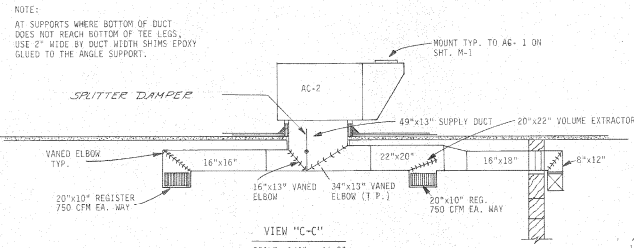
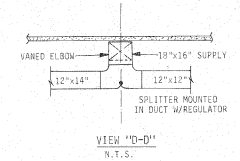


MECHANICAL PLAN

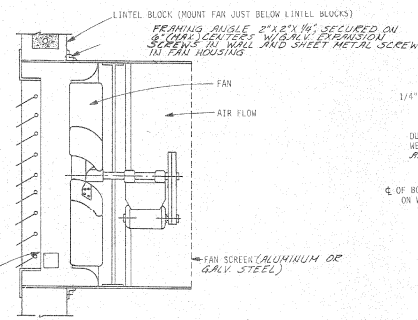
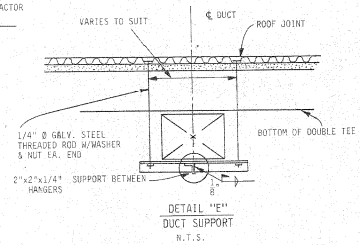
SCALE: 1/4" = 1'-0"



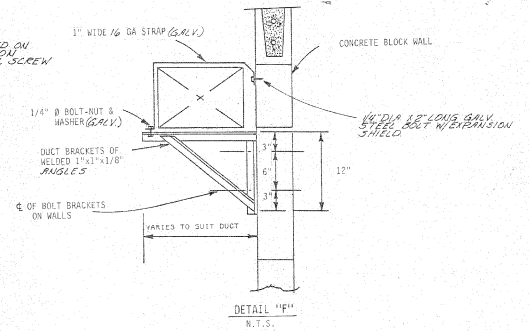
DETAIL "D"
DUCT SUPPORT - 6 REQ.
N.T.S.



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



VIEW "B-B"
N.T.S.



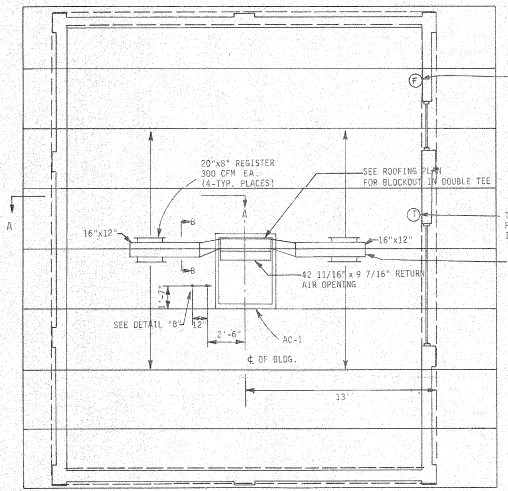
DETAIL "F-F"
N.T.S.

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

NORTHWEST MOTOR CONTROL BLDG.
MECHANICAL PLAN

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

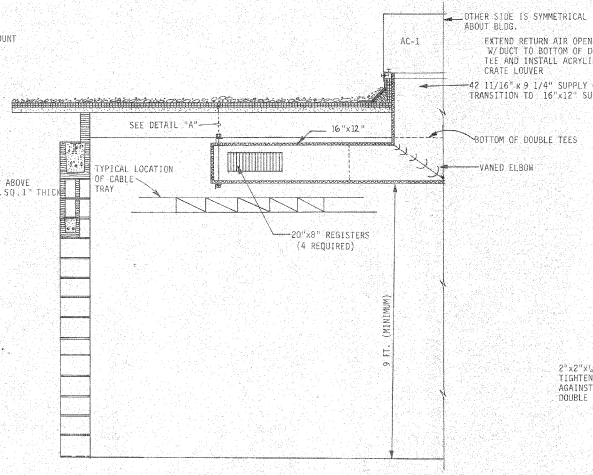
DESIGNED	D.J.H.	DETAILED	J.T.B.	TRACED	M.F.L.
CHECKED	D.J.H.	CHECKED	D.J.H.	CHECKED	D.J.H.
REVISIONS		DATE 11-15-82			



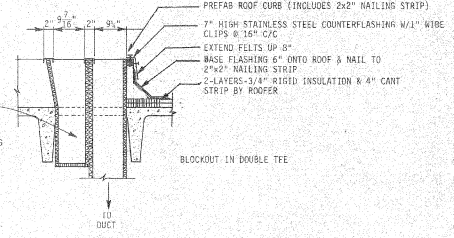
MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

SPECIFICATIONS

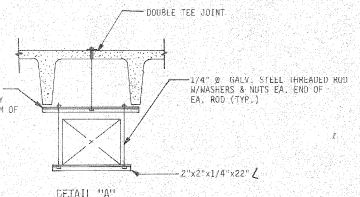
- ROOFTOP A.C.-1 UNIT SHALL BE TRANE MODEL SAHS-304, OR APPROVED EQUAL RATED 35,000 BTU (MIN.) AT ARI CONDITIONS. HEATING COIL IS RATED AT 30 KW. THE UNIT SHALL OPERATE ON 480 VOLT, 3 PHASE 60 CYCLE POWER. THE UNIT SHALL BE ARRANGED WITH A TIME DELAY RELAY, ANTI-SHORT CYCLE TIMER, LOW AMBIENT MECHANICAL COOLING TO 0° F. MANUAL 0-25 PERCENT OUTSIDE AIR, 24 VOLT THERMOSTAT FOR ONE STAGE COOLING & HEATING, COIN CASE HEATERS & ONE COMPRESSOR. THE UNIT SHALL BE BOLTED IN PLACE ON THE PREFAB CURB INDICATED WITH A MINIMUM OF (24) STAINLESS STEEL SHEET METAL SCREWS. THE EVAPORATOR FAN SHALL DELIVER 1200 CFM AT .20 IN-WATER EXTERNAL STATIC PRESSURE. FOR ENERGY EFFICIENCY UNIT SHALL HAVE MINIMUM SEER OF 8.9 OR APPROVED EQUAL. THE DUCT AND CURB SHALL BE SECURED TO RESIST A 50 P.S.F. WIND FORCE.
- THE PREFAB ROOF CURB FOR THE ROOF TOP UNIT SHALL BE SECURED IN PLACE TO THE DOUBLE TEES, USING 1/4" Ø GALV. BOLTS (10 TOTAL).
- ALL DUCTWORK SHALL BE OF GALVANIZED STEEL, 20 GAGE (MINIMUM), WITH POCKET SLIP OR SAR-S SLIP CONSTRUCTION JOINTS SHALL BE SPACED NOT MORE THAN THREE FEET APART.
- SUPPLY REGISTERS SHALL BE OF STEEL WITH DOUBLE DEFLECTION BLADES (VERTICAL FRONT BARS) AND OPPOSED BLADE DAMPER, ANEMOSTAT MODEL S 2V, OR APPROVED EQUAL.
- ALL DUCTWORK SHALL HAVE 1" THICK NEOPRENE COATED FIBERGLASS DUCT LINER.



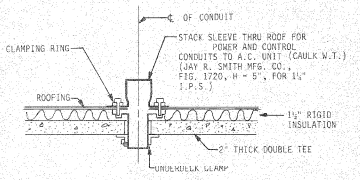
SECTION A-A
SCALE: 1/2" = 1'-0"



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



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



DETAIL B-B
SCALE: 1 1/2\"/>

- STEEL ANGLES SUPPORTING DUCT AND DUCT SHALL BE GIVEN TWO COATS OF LIGHT GREEN RUSTOLEUM PAINT.
- THE DUCT HANGERS MUST BE PLACED IN THIS CONTRACT PRIOR TO ROOFING. SEE DETAIL "A".
- RETURN GRILLE SHALL BE AN ACRYLIC EGG CRATE TYPE (24\"/>

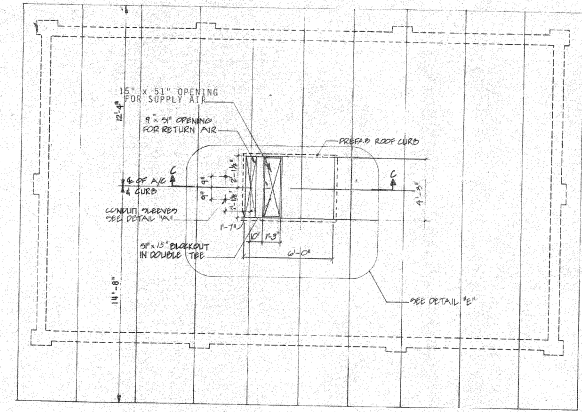
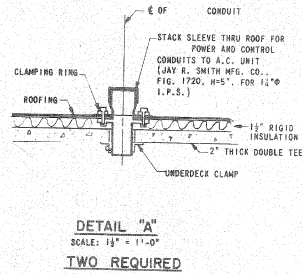
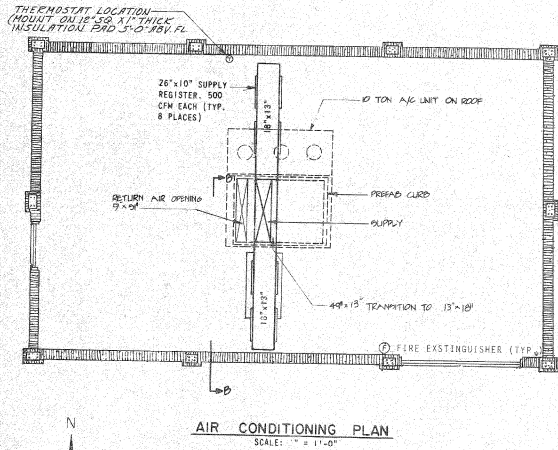
THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

CAR DUMPER MOTOR CONTROL BLDG.
PLAN AIR DISTRIBUTION

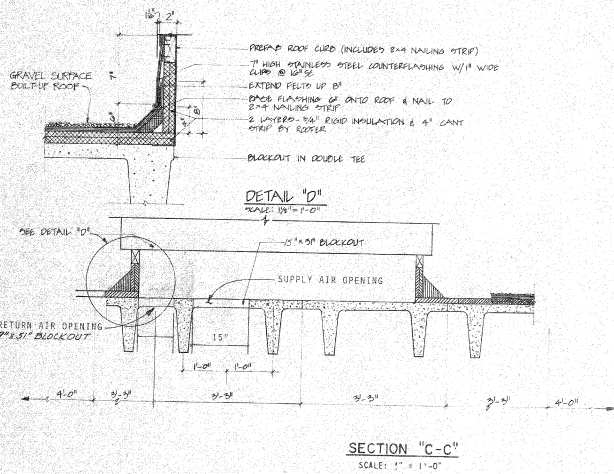
DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	J.N.H.	DETAILED	J.N.H.	TRACED	M.F.L.
CHECKED	D.J.H.	CHECKED	D.J.H.	CHECKED	D.J.H.

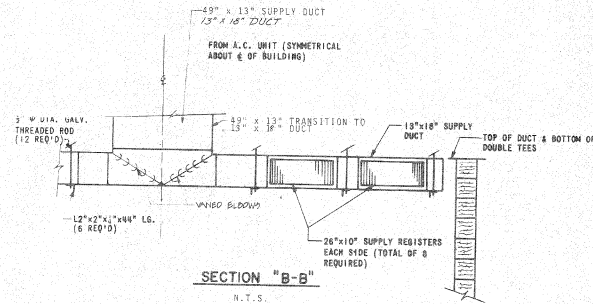
REVISIONS
DATE: 4-15-82



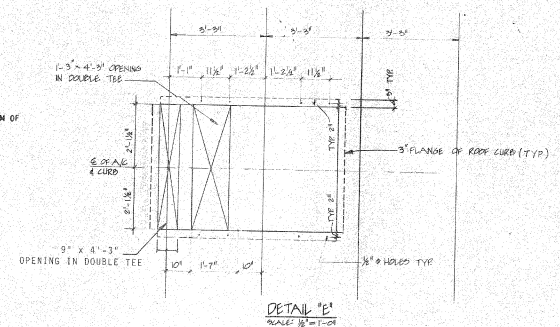
ROOF PLAN (A/C UNIT NOT SHOWN)
SCALE: 1/4" = 1'-0"



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



SECTION "B-B"
N.T.S.



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

SPECIFICATIONS

1. THE PREFAB ROOF CURB FOR THE ROOF TOP A/C UNIT SHALL BE INSTALLED AS INDICATED AND DOLT HOLES FOR PREFAB CURB SHALL BE PROVIDED.
2. ROOFTOP A.C. UNIT SHALL BE TRANE MODEL SAC1 - C-104, RATED 120,000 BTUH AT AIR CONDITIONS. HEATING COIL IS NOT REQUIRED. THE UNIT SHALL OPERATE ON 208 VOLT, 3 PHASE, 60 CYCLE POWER. THE UNIT SHALL BE ARRANGED WITH A TIME DELAY RELAY, ANTI-SHORT CYCLE TIMER, LOW AMBIENT MECHANICAL COOLING TO OFF, MANUAL 0-25 PERCENT OUTSIDE AIR, 26 VOLT THERMOSTAT FOR TWO STAGE COOLING ONLY, FIVE YEAR WARRANTY & A MINIMUM OF TWO COMPRESSORS. THE UNIT SHALL BE BOLTED IN PLACE ON THE PREFAB CURB. INDICATED WITH A MINIMUM OF (24) STAINLESS STEEL CORSET METAL SCREWS. THE EVAPORATOR FANS SHALL DELIVER 5000 CFM AT 0.50 IN-WATER EXTERNAL STATIC PRESSURE. FOR ENERGY EFFICIENCY, UNIT SHALL HAVE A MINIMUM EER 7/6 OR APPROVED E.E.R.
3. THE PREFAB ROOF CURB FOR THE ROOF TOP UNIT SHALL BE SECURED IN PLACE TO THE DOUBLE TEES, USING 1/2" x 1/2" DIA. BOLTS (8) MIN.
4. ALL DUCTWORK SHALL BE OF GALVANIZED STEEL, 20 GAGE (SHOWING), WITH POCKET SLIP OR BAR-S SLIP CONSTRUCTION. JOINTS SHALL BE SPACED NOT MORE THAN FOUR FEET APART.
5. SUPPLY REGISTERS SHALL BE OF STEEL WITH DOUBLE DEFLECTION BLADES (VERTICAL FRONT BARS) AND OPPOSED BLADE DAMPER, ANEMOSTAT MODEL S 2V, OR APPROVED EQUAL.
6. ALL DUCTWORK SHALL BE HAND 1" THICK NEOPRENE COATED FIBERGLASS DUCT LINER.
7. THE UNIT AND ROOF CURB SHALL BE MOUNTED TO RESIST A 50 P.S.F. WIND FORCE.
8. STEEL ANGLES SUPPORTING DUCT AND DUCT SHALL BE GIVEN TWO COATS OF LIGHT GREEN RUSTOLEUM PAINT.
9. THE DUCT HANGERS MUST BE PLACED IN THIS CONTRACT PRIOR TO ROOFING.

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

BARGE UNLOADER MOTOR CONTROL BLDG.

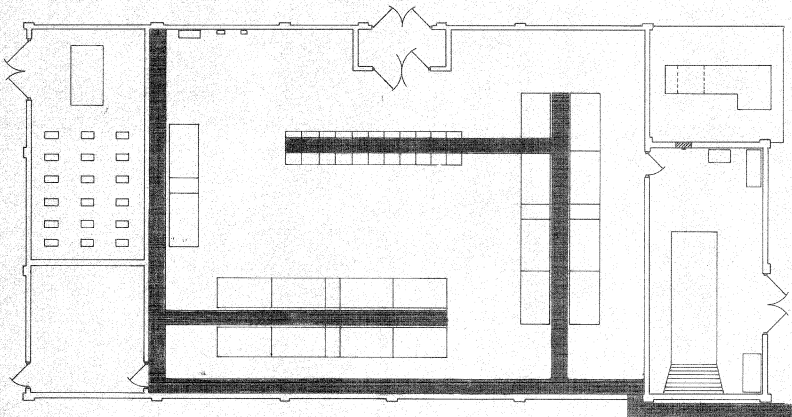
DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	J. H. H.	TRACED	M. L. H.
CHECKED	D. J. H.	CHECKED	J. H. H.

DATE: 4-15-82

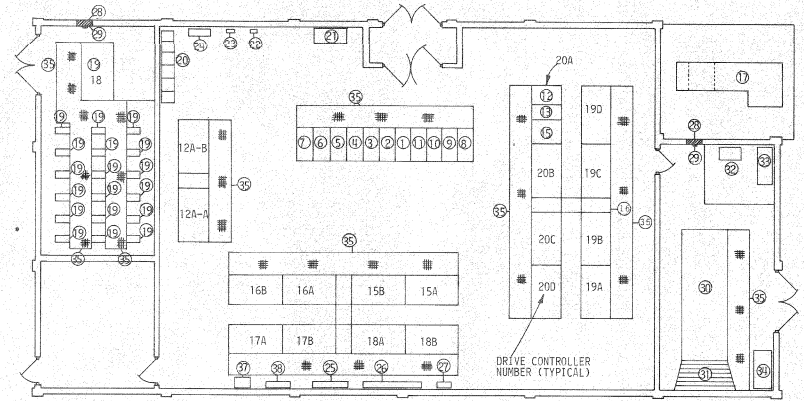
SPEC. NO.		SHEET NO.
475		E-1

DWG NO. 10-88-25

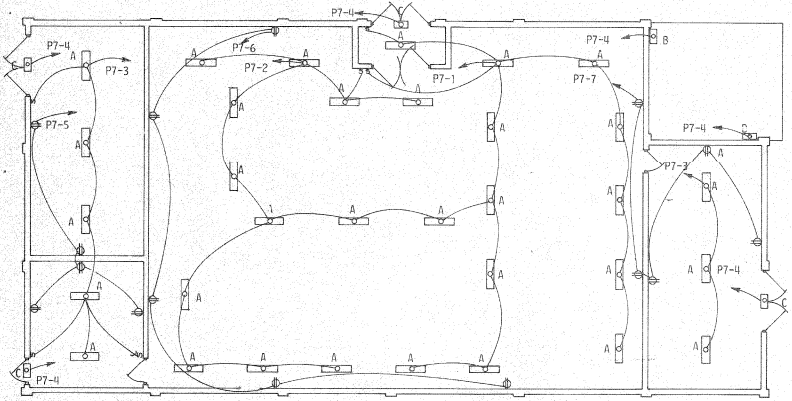


CABLE TRAY
SCALE: 1/8" = 1'-0"

42" CABLE TRAY TO CONVEYOR NO. 18
SEE SHEET NO. 261 FOR DETAILS
CONVEYOR CONTRACTOR SHALL INSTALL TRAY ON OUTSIDE OF BUILDING



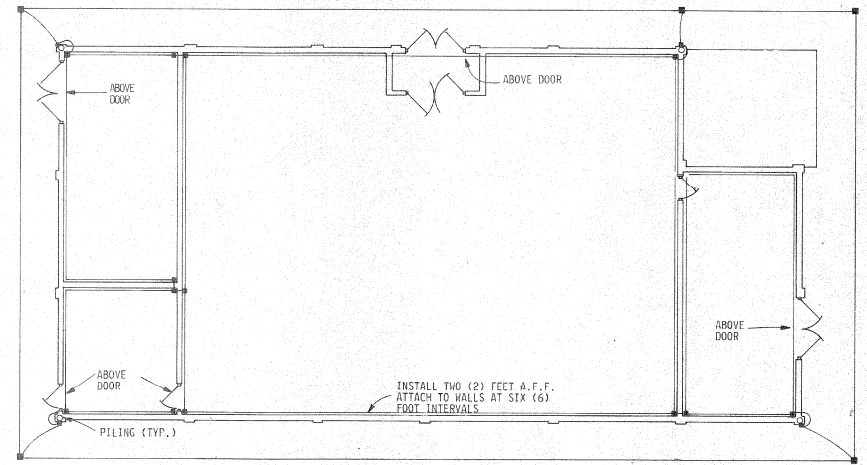
EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"



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

LIGHTING & POWER NOTES:

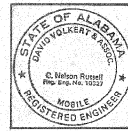
1. LIGHT FIXTURE "A": VAPOR FLUORESCENT MILLER NO. KD 2100-04, 2-40 W/RS, MOUNTED ON BAR JOIST.
2. LIGHT FIXTURE "B": WATER TIGHT FLUORESCENT WITH EMERGENCY BATTERY PACK MILLER NO. KW 2300-01-04 MOUNTED ON WALL 7'-0" ABOVE FINISH FLOOR.
3. LIGHT FIXTURE "C": HOLOPHANE TYPE: WALL PACKETTE 175 MERCURY MOUNTED ABOVE DOOR.
4. CONVENIENCE OUTLETS SHALL BE 120 VOLT, 20 AMPS, SURFACE MOUNTED, HEAVY DUTY FOR INDUSTRIAL SERVICE, HUBBELL NO. 5262 IN STEEL BOX WITH STEEL COVER PLATE, MOUNTED 24" A.F.F.
5. LIGHT SWITCHES SHALL BE 120 V, 20 AMPS SINGLE OR THREE WAY AS REQUIRED, SURFACE MOUNTED, HUBBELL NO. 1221 IN STEEL BOX WITH STEEL COVER PLATE, MOUNTED 4'-6" A.F.F.



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

GROUNDING NOTES:

1. USE 1" PVC CONDUIT SLEEVE WHERE GROUNDING CONDUCTOR PENETRATES WALLS OR SLABS.
2. ALL GROUNDING CONDUCTORS SHALL BE 2/0 AWG BARE STRANDED COPPER.
3. GROUND GRID SHALL BE INSTALLED IN THREE (3) FOOT TRENCH AT DISTANCE OF FIVE (5) FEET FROM BUILDING OR SLAB.
4. CONDUCTOR SHALL ATTACH ALL GROUNDING CONDUCTORS TO STEEL PILLINGS. ALL CONNECTION POINTS SHALL BE THOROUGHLY CLEANED AND DEGREASED PRIOR TO CONNECTIONS BEING MADE.
5. ALL CONNECTIONS SHALL BE CADWELD.
6. ALL GROUNDING CONDUCTOR INSTALLED IN TRENCH SHALL BE COATED WITH ASPHALTUM PRIOR TO INSTALLATION.



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS (ALABAMA PROJECT))

NORTH EAST MOTOR CONTROL BLDG. CABLE TRAY LIGHTING, EQUIPMENT, GROUND GRID PLAN

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

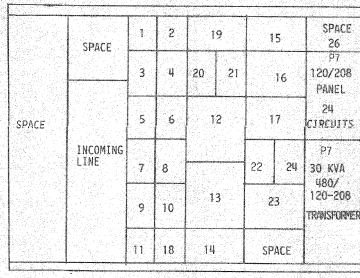
DESIGNED N.C.A.	DETAILED N.C.A.	TRACED R.A.B.
CHECKED N.R.	CHECKED N.C.A.	CHECKED N.C.A.
DATE APRIL 28, 1982		

REVISIONS

NORTH EAST MCC

CONDUIT & CABLE SCHEDULE

CONDUIT NO.	SIZE	CONDUCTOR	FROM	TO
1	5"	3-1/2 #2/0	23 KV SWITCHGEAR	EAST TRANSFORMER PRIMARY
2	5"	3-1/2 #500MCM	TRANSFORMER SECONDARY	INCOMING LINE SECTION
3	5"	3-1/2 #500MCM	TRANSFORMER SECONDARY	INCOMING LINE SECTION
4	5"	3-1/2 #500MCM	DOCK MCC FEEDER CB	DOCK MCC
5	5"	3-1/2 #500MCM	N.E. MCC FEEDER CB	CONV. 15, 16, 17 & 18
6	5"	3-1/2 #500MCM	CONV. 15, 16, 17 & 18 CONT	CONV. 12A CONTROLLER
7	5"	3-1/2 #500MCM	CARDUMPER FEEDER CB	CARDUMPER
8	5"	3-1/2 #500MCM	EAST CONTROL BLDG. FEEDER LB	EAST CONTROL BLDG.
9	5"	3-1/2 #500MCM	SOUTHEAST CNTL. BLDG. FEEDER CB	SOUTHEAST CONTROL BLDG.
10	5"	3-1/2 #500MCM	DOCK FEEDER CB	TRANSFER SWITCH
11	5"	3-1/2 #500MCM	TRANSFER SWITCH	EMERGENCY GENERATOR CB
12	5"	3-1/2 #500MCM	EMERGENCY GENERATOR CB	EMERGENCY GENERATOR
13	5"	3-1/2 #500MCM	TRANSFER SWITCH	DOCK SECTION INCOMING LINE
14	5"	3-1/2 #500MCM	NORTHEAST TRANSFORMER CB	NORTHEAST TRANSFORMER PRIMARY
15	2"		TELEPHONE JB	PLANT BOX
16	1"	1/2 #3/0	GROUND TRANSFORMER SECONDARY	GROUND TRANSFORMER ROOM
17	1"	1/2 #3/0	GROUND TRANSFORMER PRIMARY	GROUND TRANSFORMER ROOM
18	1"	1/2 #3/0	GROUND TRANSFORMER ROOM	GROUND GRID
19	1"	1/2 #3/0	SWITCHGEAR GROUND	GROUND GRID
20	1"	1/2 #3/0	TRANSFORMER SECONDARY GROUND	GROUND GRID
21	1"	1/2 #3/0	TRANSFORMER PRIMARY GROUND	GROUND GRID
22	1"	1/2 #3/0	GENERATOR GROUND	GROUND GRID
23	1"	3 #6, SKV, NS	CONV. 12 A-B CONTROLLER	P.F. CORRECTING CAPACITOR
24	1"	3 #6, SKV, NS	CONV. 12A-A CONTROLLER	P.F. CORRECTING CAPACITOR
25	1"	3 #6, SKV, NS	CONV. 19 D CONTROLLER	P.F. CORRECTING CAPACITOR
26	1"	3 #6, SKV, NS	CONV. 20 A CONTROLLER	P.F. CORRECTING CAPACITOR
27	1"	3 #6, SKV, NS	CONV. 19 C CONTROLLER	P.F. CORRECTING CAPACITOR
28	1"	3 #6, SKV, NS	CONV. 20 B CONTROLLER	P.F. CORRECTING CAPACITOR
29	1"	3 #6, SKV, NS	CONV. 19 B CONTROLLER	P.F. CORRECTING CAPACITOR
30	1"	3 #6, SKV, NS	CONV. 20 C CONTROLLER	P.F. CORRECTING CAPACITOR
31	1"	3 #6, SKV, NS	CONV. 19 A CONTROLLER	P.F. CORRECTING CAPACITOR
32	1"	3 #6, SKV, NS	CONV. 20 D CONTROLLER	P.F. CORRECTING CAPACITOR
33	1"	3 #6, SKV, NS	CONV. 18-B CONTROLLER	P.F. CORRECTING CAPACITOR
34	1"	3 #6, SKV, NS	CONV. 18-A CONTROLLER	P.F. CORRECTING CAPACITOR
35	1"	3 #6, SKV, NS	CONV. 17-B CONTROLLER	P.F. CORRECTING CAPACITOR
36	1"	3 #6, SKV, NS	CONV. 17-A CONTROLLER	P.F. CORRECTING CAPACITOR
37	1"	3 #6, SKV, NS	CONV. 15-A CONTROLLER	P.F. CORRECTING CAPACITOR
38	1"	3 #6, SKV, NS	CONV. 15-B CONTROLLER	P.F. CORRECTING CAPACITOR
39	1"	3 #6, SKV, NS	CONV. 16-A CONTROLLER	P.F. CORRECTING CAPACITOR
40	1"	3 #6, SKV, NS	CONV. 16-B CONTROLLER	P.F. CORRECTING CAPACITOR
41	5"	1 #16, 000 MCM	TRANSFORMER SECONDARY	480 V CONTROL CENTER
42	5"	1 #16, 000 MCM	TRANSFORMER SECONDARY	480 V CONTROL CENTER
43	5"	1 #16, 000 MCM	TRANSFORMER SECONDARY	480 V CONTROL CENTER
44	1"	4-1/2 #8	ROADLIGHTS CB	ROADLIGHTS
45	1"	4-1/2 #8	ROADLIGHTS CB	ROADLIGHTS
46	5"		CABLE TRAY DROP	HANDHOLE
47	5"		CABLE TRAY DROP	HANDHOLE
48	2"		CABLE TRAY DROP	HANDHOLE
49	1"	3-#12 TH	VENTILATION FAN C.B.	VENT. FAN GENERATOR ROOM
50	5"		CABLE TRAY DROP	SPARE
51	2"		CABLE TRAY DROP	SPARE
52	2"		CABLE TRAY DROP	SPARE
53	2"		CABLE TRAY DROP	SPARE
54	5"		CABLE TRAY DROP	SPARE
55	2"		CABLE TRAY DROP	SPARE
56	2"		CABLE TRAY DROP	SPARE
57	2"	8-1/4 #12 TH	CONVEYOR RELAY PANEL	CONVEYOR 19 CONTROL CENTER
58	1"	3-#12 TH	VENT. FAN TRANSFORMER CB	VENT. FAN TRANSFORMER ROOM
59	2"	3-1/2 #6	CONV. 19B HV CONTROLLER	CONVEYOR 19B MOTOR
60	3"	3-1/2 #4/0	CONV. 19D SECONDARY CONTROLLER	CONVEYOR 19D MOTOR
61	2"	3-1/2 #6	CONV. 19C HV CONTROLLER	CONVEYOR 19C MOTOR
62	3"	3-1/2 #4/0	CONV. 19B SECONDARY CONTROLLER	CONVEYOR 19B MOTOR
63	2"	3-1/2 #6	CONV. 19A HV CONTROLLER	CONVEYOR 19A MOTOR
64	3"	3-1/2 #4/0	CONV. 19B SECONDARY CONTROLLER	CONVEYOR 19B MOTOR
65	2"	3-1/2 #6	CONV. 19A HV CONTROLLER	CONVEYOR 19A MOTOR
66	3"	3-1/2 #4/0	CONV. 19B SECONDARY CONTROLLER	CONVEYOR 19B MOTOR
67	2"	3-1/2 #6	CONV. 19A HV CONTROLLER	CONVEYOR 19A MOTOR
68	2"	3-1/2 #6	CONV. 19C HV CONTROLLER	CONVEYOR 19C MOTOR
69	2"	3-1/2 #6	CONV. 19D SECONDARY CONTROLLER	CONVEYOR 19D MOTOR



MOTOR CONTROL CENTER #7
SCALE: NONE

* CONTROL CENTER SHALL BE WESTINGHOUSE FIVE STAR OR APPROVED EQUAL.

* OWNER FURNISHED - CONTRACTOR INSTALLED

N.E. BLDG. EQUIPMENT SCHEDULE

NUMBER	DESCRIPTION	CONTRACTOR TO FURNISH
1	INCOMING LINE SECTION #160 VOLT	DISTRIBUTION
2	MCC MAIN CIRCUIT BREAKER	DISTRIBUTION
3	DOCK SECTION CIRCUIT BREAKER	DISTRIBUTION
4	N.E. MCC CIRCUIT BREAKER	DISTRIBUTION
5	CARDUMPER CIRCUIT BREAKER	DISTRIBUTION
6	EAST MOTOR CONTROL BUILDING CIRCUIT BREAKER	DISTRIBUTION
7	SOUTH EAST MOTOR CONTROL BLDG. CIRCUIT BREAKER	DISTRIBUTION
8	INCOMING LINE SECTION FOR DOCK SECTION	DISTRIBUTION
9	DOCK MCC CIRCUIT BREAKER	DISTRIBUTION
10	N.E. TRANSFORMER CIRCUIT BREAKER	DISTRIBUTION
11	SHIPLoader CIRCUIT BREAKER	DISTRIBUTION
12	CONVEYOR DRIVE CONTROLLER (RESISTOR PANEL SECTION)	CONVEYOR
13	CONVEYOR DRIVE CONTROLLER (SECONDARY PANEL SECTION)	CONVEYOR
14		
15	CONVEYOR DRIVE CONTROLLER (H.V. STARTER & CONTROL SYSTEM)	CONVEYOR
16	CONVEYOR DRIVE CONTROLLER (INCOMING PANEL/JUNCTION PANEL)	CONVEYOR
17	23 KV/4160 VOLT 5000 KVA TRANSFORMER	DISTRIBUTION
18	4160/480 VOLT 750 KVA TRANSFORMER	DISTRIBUTION
19	POWER FACTOR CORRECTING CAPACITOR	CONVEYOR
20	480 VOLT CONTROL CENTER/LOAD CENTER	CONVEYOR
21	VIBRATORY FEEDER CONTROLLER	CONVEYOR
22	BIN SWITCHES CONTROL	CONVEYOR
23	TELEPHONE TERMINAL BOX	CONVEYOR
24	ANNUNCIATOR PANEL	CONVEYOR
25	1/0 RACK PANEL	CONVEYOR
26	RELAY PANEL	CONVEYOR
27	CONTROL TERMINAL BOX	CONVEYOR
28	VENTILATION FAN	BUILDING
29	VENTILATION FAN CONTROLS	BUILDING
30	1250 KVA EMERGENCY GENERATOR	DISTRIBUTION
31	EMERGENCY GENERATOR RADIATOR FAN COMPARTMENT	DISTRIBUTION
32	EMERGENCY GENERATOR TRANSFER SWITCH	DISTRIBUTION
33	EMERGENCY GENERATOR CIRCUIT BREAKER	DISTRIBUTION
34	EMERGENCY GENERATOR 200 GALLON FUEL TANK	DISTRIBUTION
35	SWITCHGEAR MATTING	DISTRIBUTION
36	CABLE TRAY #12" (DIVIDED)	BUILDING
37	25 KVA 1 @ 480 V-120/240 GRV-TYPE TRANSFORMER	CONVEYOR
38	CONTROL POWER PANEL BOARD	CONVEYOR

MOTOR CONTROL CENTER #7

MFR: WESTINGHOUSE	SERVICE: 277/480 V 3 @ 4W	FEEDER: 9 #500 MCM 3 #250 MCM
TYPE: FIVE STAR		MAIN: 800 AMP
CLASS: 1 TYPE-B		TYPE: WESTINGHOUSE MC

CIRCUIT NO.	DESCRIPTION	WIRE SIZE	NO. POLES	#W TYPE	TRIP AMP	LOADS WATTS
1	PANEL #7 TRANSFORMER	6	3	FB	40	15200
2	CONV. 17 & TOWER T12 LIGHTS	6	2	FB	20	2965
3	CONVEYOR 15 LIGHTS	8	2	FB	20	2587
4	TOWER T10 LIGHT+CONV. 12A	6	2	FB	20	5174
5	SPARE					
6	CONVEYOR 18	8	2	FB	20	1592
7	CONVEYOR 19 LIGHTS & T16 LIGHTS	6	2	FB	20	5771
8	C-7 CONTROL POWER TRANSFORMER	4	2	FB	65	17000
9	A/C & HEATER	6	3	FB	40	20000
10	ROADWAY LIGHTS	8	0	FD	30	4000
11	ROADWAY LIGHTS	10	2	FB	20	4650
12	VIBRATORY FEEDER PANEL	2	3	KB	125	65000
13	SAMPLING SYSTEM	250	3	KB	225	186286
14	CONVEYOR 16 MAGNET BELT	12	3	A206-1	20	9500
15	CONVEYOR 16 MAGNET RECTIFIER	10	3	"	"	12500
16	HYDRAULIC UNIT FLOP GATE CONV. 18	12	3	A206-1	20	10000
17	HYDRAULIC UNIT FLOP GATE CONV. 15	12	3	A206-1	20	10000
18	ELECTRICAL HOISTS TOWER T-10	1/0	3	FB	90	41900
19	ADV. SHIPLoader POWER	3/0	3	KB	150	60,000
20	ELECTRICAL HOISTS TOWER T-12	8	3	FB	30	20950
21	ELECTRICAL HOISTS TOWER T16	2	3	FB	75	52400
22	SPARE					
23	TOWER T10 CONTROL ROOM POWER	2/0	3	KB	60	58900
24	SPARE					

I = $\frac{610897}{\sqrt{3} \times 480 \times 0.9} = 816.42$ AMPS

SCHEDULE PANEL #7

PANEL: WESTINGHOUSE C31-C5	SERVICE: 120/208 3 @ 4W	FEEDER: 3 #2 1 #4 TH
MOUNTING: RECESSED (IN #7)		MAIN: 100 AMP M.L.O.

CRT. NO.	CB NO.	COND.	WIRE SIZE	EQUIPMENT	LOCATION	LOAD A	LOAD B	LOAD C
1	20	1	3/4"	12 LIGHTS	EQUIPMENT ROOM	1300		
2	20	1	3/4"	12 LIGHTS	EQUIPMENT ROOM		1200	
3	20	1	3/4"	12 LIGHTS	TRANSFORMER/OFFICE/GEN. ROOM			800
4	20	1	3/4"	12 OUTSIDE LIGHTS	TRANSFORMER	900		
5	20	1	3/4"	12 RECEPTACLES	OFFICE & TRANSFORMER ROOM		1000	
6	20	1	3/4"	12 RECEPTACLES	EQUIPMENT ROOM			1000
7	20	1	3/4"	12 RECEPTACLES	EQUIPMENT & GENERATOR ROOM	1000		
8	20	1	3/4"	12 VENT. FAN	TRANSFORMER ROOM		1000	
9	20	1	3/4"	12 VENT. FAN	GENERATOR ROOM			1000
10	20	1	3/4"	12 ANNUNCIATOR	EQUIPMENT ROOM	1000		
11	20	1	3/4"	12 BIN SWITCHES	EQUIPMENT ROOM			1000
12	20	1	3/4"	12 SPARE				1000
13	20	2		SPARE		1000		
14	20	1		SPARE			1000	
15	20	1		SPARE				1000
16-24				SPACES		5200	5200	4800

I = $\frac{15200}{\sqrt{3} \times 208 \times 0.9} = 46.87$ AMPS

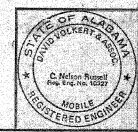
SCHEDULE CONTROL PANEL #7

PANEL: SQUARE D	SERVICE #8	FEEDER: 3 #2/0 1 #2
TYPE: FIVE STAR	120/240V, 3W	MAIN: 150 AMPS

MOUNTING: SURFACE	EQUIPMENT	LOADS
1	30-2 1/0 RACK	4800
2	20-2 RELAY PANEL P7 CONTROL	1000
3	20-2 CONVEYOR 12A (DRIVE A) CONTROL	1000
4	20-2 CONVEYOR 15 (DRIVE A) CONTROL	1000
5	20-2 CONVEYOR 16 (DRIVE A) CONTROL	1000
6	20-2 CONVEYOR 17 (DRIVE A) CONTROL	1000
7	20-2 CONVEYOR 18 (DRIVE A) CONTROL	1000
8	20-2 CONVEYOR 19 (DRIVE A) CONTROL	1000
9	20-2 CONVEYOR 20 (DRIVE A) CONTROL	1000
10	20-2 CONVEYOR 12A SPACE HEATERS	1000
11	20-2 CONVEYOR 15 SPACE HEATERS	1000
12	20-2 CONVEYOR 16 SPACE HEATERS	1000
13	20-2 CONVEYOR 17 SPACE HEATERS	1000
14	20-2 CONVEYOR 18 SPACE HEATERS	1000
15	20-2 CONVEYOR 19 DRIVE A-B SP.HEAT.	1000
16	20-2 CONVEYOR 19 DRIVE C-D SP.HEAT.	1000
17	20-2 CONVEYOR 20 DRIVE A-B SP.HEAT.	1000
18	20-2 CONVEYOR 20 DRIVE C-D SP.HEAT.	1000
19	20-2 SPARE	
20	20-1 SPARE	
21-42	SPACES	17000

I = $\frac{17000}{240 \times 0.9} = 78.7$ AMPS

4. BUILDING CONTRACTOR SHALL INSTALL A DISCONNECT SWITCH ON THE OUTSIDE OF THE AIRCONDITIONING UNIT AND OVER CURRENT PROTECTION INSIDE THE UNIT FOR BOTH THE HEATER AND THE AIRCONDITIONING UNIT.



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

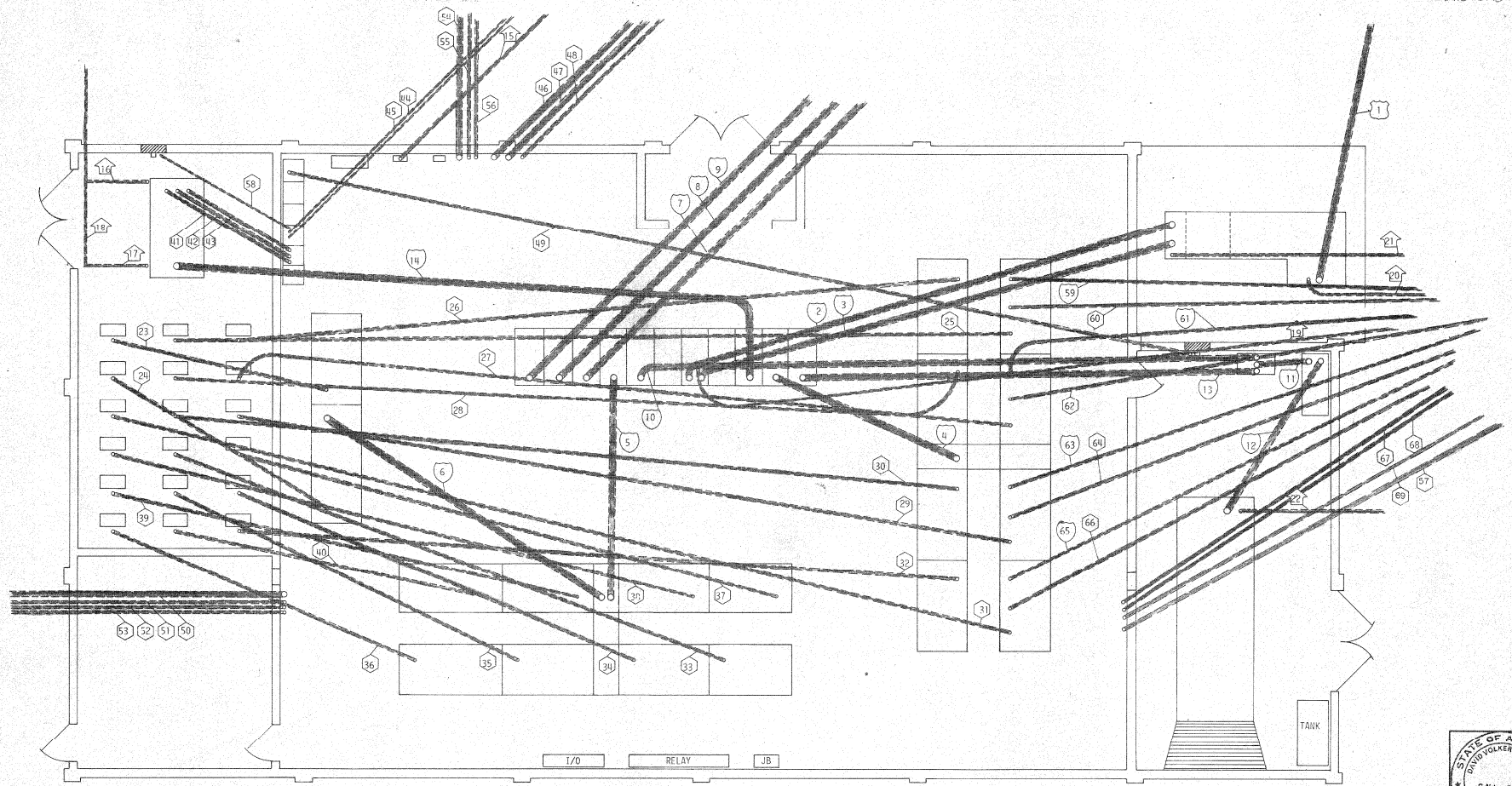
NORTH EAST MOTOR CONTROL BUILDING SCHEDULES & DETAILS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED: N. C. A.	DETAILED: N. C. B.	TRACED: N. C. H.
CHECKED: N. C. B.	CHECKED: N. C. B.	CHECKED: N. C. H.
DATE: APRIL 28, 1982		

REVISIONS

- NOTES:
- CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT AS SHOWN, UTILIZING THE CABLE TRAY WHERE POSSIBLE.
 - BUILDING CONTRACTOR SHALL NOT PERFORM THE FINAL CONNECTION AND TESTING OF ALL LIGHT AND RECEPTACLE CIRCUITS, UNTILL ALL EQUIPMENT HAS BEEN INSTALLED BY THE CONVEYOR CONTRACTOR AND ALL POWER SUPPLY CONNECTIONS HAVE BEEN MADE BY THE DISTRIBUTION CONTRACTOR.
 - BUILDING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND STUB-UPS TO A POINT FIVE (5) FEET OUTSIDE CONTROL CENTER. CONVEYOR OR DISTRIBUTION CONTRACTOR SHALL THEN INSTALL ALL CONDUIT, DUCTBANK AND RISERS AS INDICATED.



- ① 23 KV FEEDER CIRCUIT
- ② 4160 FEEDER CIRCUIT
- ③ 480 FEEDER CIRCUIT
- ④ COMMUNICATION & GROUNDING CIRCUIT



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

NORTH EAST MOTOR CONTROL BLDG.
CONDUIT & CABLE LAYOUT

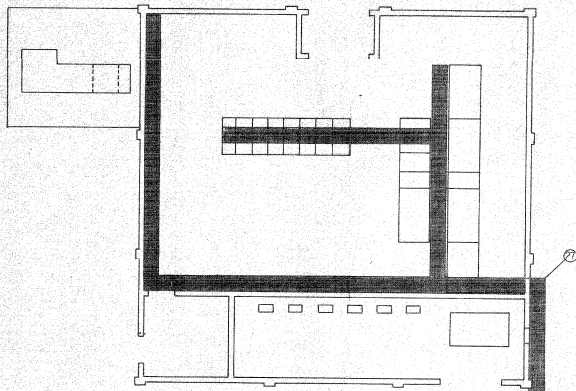
DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	N. C. A.	DATE	APRIL 27, 1982
CHECKED	N. C. A.	TRACED	S. H.
		CHECKED	N. C. A.

REVISIONS

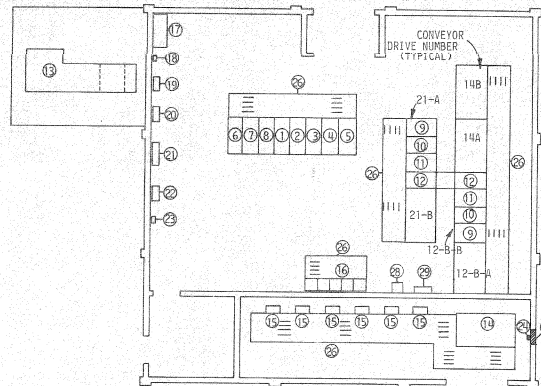
SPEC. NO.	SHEET NO.
475	E4

DWG. NO. 19 05 25

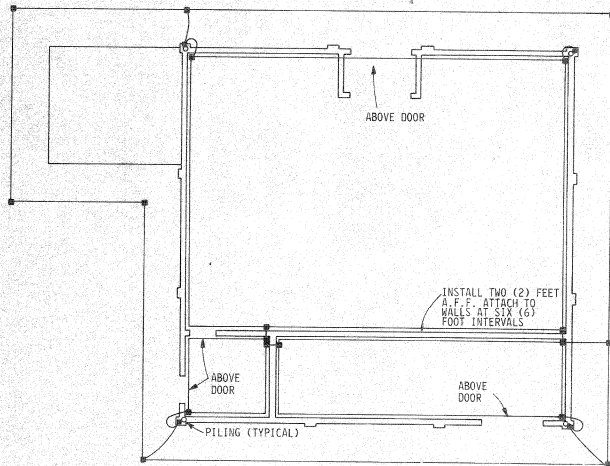


CABLE TRAY
SCALE: 1/8" = 1'-0"

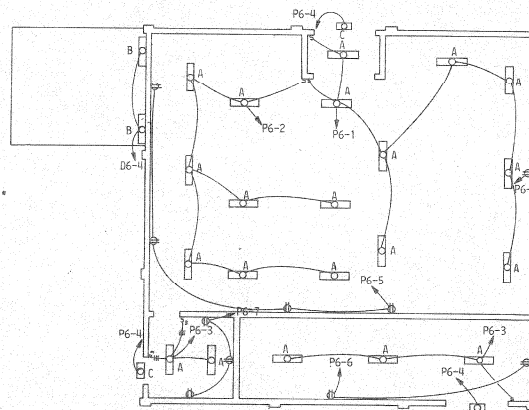
24" CARLF TRAY TO CONVEYOR NO. 14
SEE SHEET NO. 261 FOR DETAILS.
CONVEYOR CONTRACTOR SHALL INSTALL TRAY ON OUTSIDE OF BUILDING.



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



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



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

NEW BLDG. EQUIPMENT SCHEDULE		
NUMBER	DESCRIPTION	CONTRACTOR TO FURNISH
1	INCOMING LINE SECTION 4160 VOLT	DISTRIBUTION
2	MCC MAIN CIRCUIT BREAKER	DISTRIBUTION
3	NW MCC CIRCUIT BREAKER	DISTRIBUTION
4	N STACKER/RECLAIMER CIRCUIT BREAKER	DISTRIBUTION
5	NW TRANSFORMER CIRCUIT BREAKER	DISTRIBUTION
6	SOUTH WEST MOTOR CONTROL CIRCUIT BREAKER	DISTRIBUTION
7	NORTH BARGE UNLOADER CIRCUIT BREAKER	DISTRIBUTION
8	WEST MOTOR CONTROL BLDG. CIRCUIT BREAKER	DISTRIBUTION
* 9	CONVEYOR DRIVE CONTROLLER (RESISTOR PANEL SECTION)	CONVEYOR
* 10	CONVEYOR DRIVE CONTROLLER (SECONDARY PANEL SECTION)	CONVEYOR
* 11	CONVEYOR DRIVE CONTROLLER (I.V. STARTER & CONTROL SECTION)	CONVEYOR
* 12	CONVEYOR DRIVE CONTROLLER (INCOMING PANEL/JUNCTION PANEL)	CONVEYOR
13	23 KV/1610 V 5000 KVA TRANSFORMER	DISTRIBUTION
14	4160/480 750 KVA TRANSFORMER	DISTRIBUTION
* 15	POWER FACTOR CORRECTING CAPACITORS	DISTRIBUTION
16	480 V MOTOR CONTROL CENTER M6	CONVEYOR
17	VIBRATORY FEEDER CONTROLLER	CONVEYOR
18	TELEPHONE TERMINAL BOX	CONVEYOR
19	ANNUNCIATOR PANEL	TELEPHONE
20	RELAY PANEL	CONVEYOR
* 21	I/O RACK PANEL	CONVEYOR
22	CONTROL TERMINAL BOX	CONVEYOR
23	BLNSWITCH CONTROLS	CONVEYOR
24	VENTILATION FAN CONTROLLER	BUILDING
25	VENTILATION FAN	BUILDING
26	SWITCHBOARD MATTING	DISTRIBUTION
27	CABLE TRAY (24" DIVIDED)	BUILDING
28	25 KV 1.6 1800-120/40 VOLT DRYTYPE TRANSFORMER	CONVEYOR
29	CONTROL POWER PANEL BOARD C6	CONVEYOR

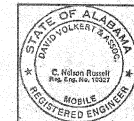
* OWNER FURNISHED - CONTRACTOR INSTALLED

GROUNDING NOTES:

1. USE 1" PVC CONDUIT SLEEVE WHERE GROUNDING CONDUCTOR PENETRATES WALL OR SLABS.
2. ALL GROUNDING CONDUCTORS SHALL BE 2/0 AWG BARE STRANDED COPPER.
3. GROUND GRID SHALL BE INSTALLED IN THREE (3) FOOT TRENCH AT DISTANCE OF FIVE (5) FEET FROM BUILDING OR SLAB.
4. CONTRACTOR SHALL ATTACH ALL GROUNDING CONDUCTORS TO STEEL PILING. ALL LUNELLUM PILING SHALL BE THOROUGHLY CLEANED AND DECREASED PRIOR TO CONNECTIONS BEING MADE.
5. ALL CONNECTIONS SHALL BE CADWELDED.
6. ALL GROUNDING CONDUCTOR INSTALLED IN TRENCH SHALL BE COATED WITH ASPHALTUM PRIOR TO INSTALLATION.

LIGHTING & POWER NOTES:

1. LIGHT FIXTURE "A": VAPOR TIGHT FLUORESCENT MILLER NO: KD 2100-04, 2'-0W/RS, MOUNTED ON BAR JOIST.
2. LIGHT FIXTURE "B": WATER TIGHT FLUORESCENT WITH EMERGENCY BATTERY PACK, MILLER NO: KW 2300-01.04 MOUNTED ON WALL 7'-0" ABOVE FINISHED FLOOR.
3. LIGHT FIXTURE "C": HOLOPHONE TYPE, WALL PACKETTE, 175 W MERCURY MOUNTED ABOVE DOOR.
4. CONVENIENCE OUTLETS SHALL BE 120 VOLT, 20 AMPS, SURFACE MOUNTED, HEAVY DUTY FOR INDUSTRIAL SERVICE, HUBBELL NO. 5262 IN STEEL BOX WITH STEEL COVER PLATE, MOUNTING HEIGHT 2'-0".
5. LIGHT SWITCHES - SHALL BE 120 V, 20 AMP, SINGLE OR THREE-WAY AS REQUIRED, SURFACE MOUNTED, HUBBELL NO. 1221 IN STEEL BOX WITH STEEL COVER PLATE, MOUNTING HEIGHT 4'-6".



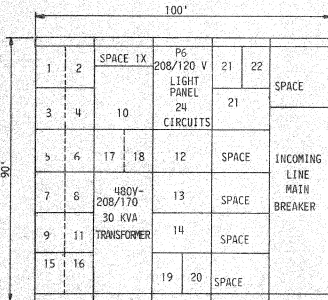
THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

NORTH-WEST MOTOR CONTROL BLDG. CABLE TRAY, EQUIPMENT, GROUND GRID AND LIGHTING PLAN

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	BY	DATE	CHECKED	BY	DATE	TRACED	BY	DATE
N.C.A.			N.C.A.			M.F.L.		
N.R.			N.R.					

REVISIONS DATE APRIL 28, 1982



MOTOR CONTROL CENTER #6 LAYOUT
SCALE: NONE

CONTROL CENTER SHALL BE "WESTINGHOUSE FIVE STAR" OR APPROVED EQUAL.

MOTOR CONTROL CENTER #6						
MFR: WESTINGHOUSE		SERVICE		FEEDER: 9-500 MCN		
TYPE: FIVE STAR		277/480V 3Ø 4W		3-250 MCN		
CLASS: 1 OR 2				MAIN: 800 AMPS TYPE MC		
CRT. NO.	DESCRIPTION	SIZE WIRE	NO. POLE	TRIP TYPE	TRIP AMPS	LOAD WATTS
1	PANEL P6	6	3	FB	40	14700
2	CONVEYOR 14 LIGHTING & TOWER T-9	6	2	FB	20	3582
3	CONVEYOR 12B LIGHTING	6	2	FB	20	5572
4	CONVEYOR 21 LIGHTING	8	2	FB	20	1393
5	TOWER T-8 & 1 LIGHT OF CONVEYOR 12A	6	2	FB	40	3383
6	ROADWAY LIGHTS	8	2	FB	30	10,620
7	RAILROAD LIGHTS	2	2	FB	90	29,340
8	RAILROAD LIGHTS	2	2	FB	80	24,450
9	VIB. FEEDER PANEL 4X10 HP	2	3	FB	100	53,000
10	SLURRY PUMPING STATION	1/0	3	KB	125	65,000
11	AUX. POWER STACKER RECLAIMER	4	3	FB	70	58,000
12	CONVEYOR 21 MAGNET BELT	12	3	A206-T	20	9,500
13	CONVEYOR 21 MAGNET BELT RECTIFIER	10	3	* **	20	12,500
14	HYDRAULIC UNIT FLOP GATE CONV. 21	12	3	A206-T	20	10,000
15	AUX. STACKER/RECLAIMER #3 POWER	1/0	3	FB	100	50,000
16	AIR CONDITION/HEATER UNIT	6	3	FB	40	25,000
17	C6 CONTROL POWER TRANSFORMER	8	2	FB	30	25,000
18	ELECTRICAL HOISTS TOWER T8	4	3	FB	60	41,900
19	ELECTRICAL HOISTS TOWER T9	8	3	FB	30	20,950
21	HYDRAULIC UNIT FLOPGATE CONV. 12B	10	3	A206-T	20	10,000
20-22	SPARE			1	FB	20

$I = \frac{470180}{\sqrt{3} \times 480 \times 0.9} = 626.3 \text{ AMPS}$

* Ⓢ MEANS WESTINGHOUSE
** SUPPLIED BY MAGNETIC BELT MANUFACTURER

SCHEDULE PANEL P6									
PANEL: WESTINGHOUSE		SERVICE		FEEDER: 3-#2 1-#4 THW					
MOUNTING: RECESSED IN #6		120/208V 3Ø 4W		MAIN: 100 AMP M.L.O.					
CRT. NO.	C.B. RATING	NO. POLES	NO. SIZES	WIRE SIZES	EQUIPMENT	LOCATION	LOAD PHASE A	LOAD PHASE B	LOAD PHASE C
1	20	1	3/4"	12	LIGHTS	EQUIPMENT ROOM	800		
2	20	1	3/4"	12	LIGHTS	EQUIPMENT ROOM		800	
3	20	1	3/4"	12	LIGHTS	TRANSFORMER ROOM & OFFICE			500
4	20	1	3/4"	12	OUTSIDE LIGHTS	TRANSFORMER PAD	600		
5	20	1	3/4"	12	RECEPTACLES	EQUIPMENT ROOM		1000	
6	20	1	3/4"	12	RECEPTACLES	TRANSFORMER ROOM			1000
7	20	1	3/4"	12	RECEPTACLES	OFFICE	1000		
8	20	1	3/4"	12	VENTILATION FAN	TRANSFORMER ROOM		1000	
9	20	1	3/4"	12	BIN SWITCHES	EQUIPMENT ROOM			1000
10	20	1	3/4"	12	ANNUNCIATOR	EQUIPMENT ROOM	1000		
11	20	1	3/4"	12	BELT SCALE	CONVEYOR 21		1000	
12	20	1	3/4"	12	SPARES				1000
13	20	2	3/4"	12	SPARES		1000		
14	20	1	3/4"	12	SPARES			1000	
15	20	2	3/4"	12	SPARES				2000
16-24					SPACES				

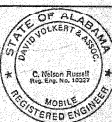
$I = \frac{14700}{\sqrt{3} \times 208 \times 0.8} = 51 \text{ AMPS}$

CONTROL POWER PANEL C6 SCHEDULE						
PANEL: SQUARE D WOOD		SERVICE: 120-240 V		FEEDER: 3 #1/0 1 #2		
MOUNTING: SURFACE		1Ø 3 W		MAIN: 110 AMPS		
CRT. NO.	TRIP	NO. POLES	TRIP SIZE	WIRE SIZE	EQUIPMENT	LOAD
1	30	2	3/4"	10	1/0 RACK CONTROL	4800
2	20	2	3/4"	12	RELAY PANEL B6 CONTROL	1000
3	20	2	3/4"	12	CONVEYOR 21 (DRIVE A) CONTROL	1000
4	20	2	3/4"	12	CONVEYOR 14 (DRIVE A) CONTROL	1000
5	20	2	3/4"	12	CONVEYOR 12B (DRIVE A) CONTROL	1000
6	20	2	3/4"	12	CONVEYOR 21 SPACE HEATERS	1000
7	20	2	3/4"	12	CONVEYOR 14 SPACE HEATERS	1000
8	20	2	3/4"	12	CONVEYOR 12B SPACE HEATERS	1000
9	20	2			SPARE	
10	20	1			SPARE	
11-42					SPACES	

$I = \frac{11800}{240 \times 0} = 54.62 \text{ AMPS}$

NOTES:

- CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT AS SHOWN, UTILIZING THE CABLE TRAY WHERE POSSIBLE.
- BUILDING CONTRACTOR SHALL NOT PERFORM THE FINAL CONNECTION AND TESTING OF ALL LIGHT AND RECEPTACLE CIRCUITS, UNTIL ALL EQUIPMENT HAS BEEN INSTALLED BY CONVEYOR CONTRACTOR AND ALL POWER SUPPLY CONNECTIONS HAVE BEEN MADE BY DISTRIBUTION CONTRACTOR.
- CONTRACTOR SHALL INSTALL A DISCONNECT SWITCH ON THE OUTSIDE OF THE AIRCONDITIONING UNIT AND OVER CURRENT PROTECTION INSIDE THE UNIT FOR BOTH THE HEATER AND THE AIRCONDITIONING UNIT.



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

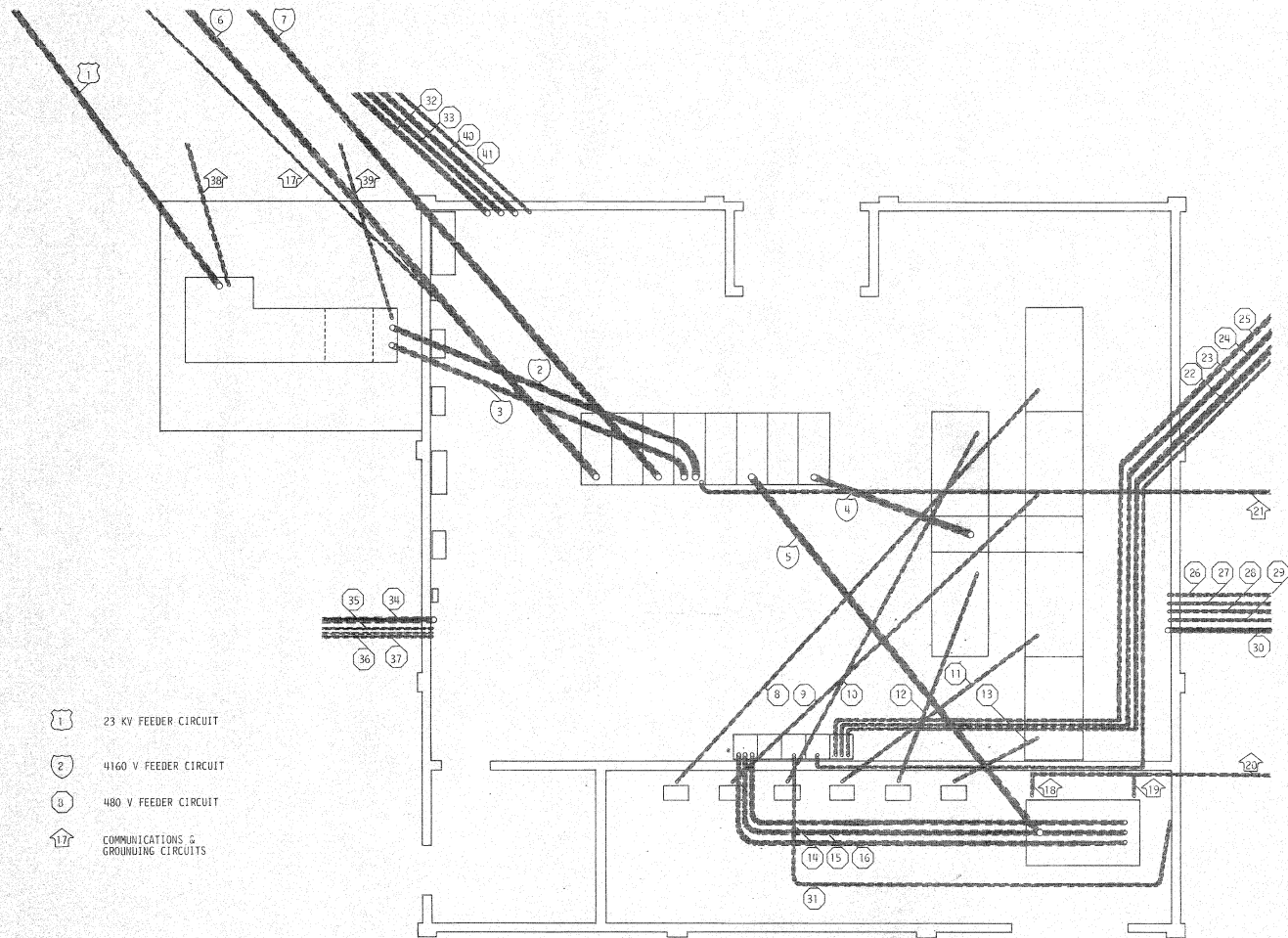
NORTHWEST CONTROL BUILDING
PANEL SCHEDULES & DETAILS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED: N.C.A.	DETAILED: N.C.A.	TRACED: B.D.B.
CHECKED: H.H.	CHECKED:	CHECKED: N.C.A.
DATE: APRIL 28, 1982		

REVISIONS

DWG. NO. 21 OF 25



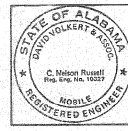
- ① 23 KV FEEDER CIRCUIT
- ② 4160 V FEEDER CIRCUIT
- ③ 480 V FEEDER CIRCUIT
- ⑱ COMMUNICATIONS & GROUNDING CIRCUITS

NORTH-WEST CONTROL BLDG.

CABLE AND CONDUIT SCHEDULE

CONDUIT NO.	SIZE	CONDUCTOR	FROM	TO
1	5"	3-1/C #2/O	23 KV SWITCHGEAR	WEST TRANSFORMER
2	4 1/2"	3-1/C #500 MCM	WEST TRANSFORMER SECONDARY	INCOMING LINE SECTION
3	4 1/2"	3-1/C #500 MCM	WEST TRANSFORMER SECONDARY	INCOMING LINE SECTION
4	4 1/2"	3-1/O #500 MCM	N-W MCC FEEDER	NW MCC
5	3 1/2"	3-1/C-2/O	TRANSFORMER CB	TRANSFORMER PRIMARY
6	2"	3-1/C #500 MCM	WEST CONTROL BLDG. CB	WEST CONTROL BLDG.
7	5"	3-1/C #500 MCM	SOUTHWEST CONTROL BLDG. CB	SOUTHWEST CONTROL BLDG.
8	1"	3-#6, 5KV, NS	CONV. 14B CONTROLLER	P.F. CORRECTING CAPACITOR
9	1"	3-#6, 5KV, NS	CONV. 14A CONTROLLER	P.F. CORRECTING CAPACITOR
10	1"	3-#6, 5KV, NS	CONV. 21A CONTROLLER	P.F. CORRECTING CAPACITOR
11	1"	3-#6, 5KV, NS	CONV. 12B-B CONTROLLER	P.F. CORRECTING CAPACITOR
12	1"	3-#6, 5KV, NS	CONV. 21B CONTROLLER	P.F. CORRECTING CAPACITOR
13	1"	3-#6, 5KV, NS	CONV. 12B-A CONTROLLER	P.F. CORRECTING CAPACITOR
14	4"	3-#500 MCM 1-#320	TRANSFORMER SECONDARY	480V CONTROL CENTER
15	4"	3-#500 MCM 1-#320	TRANSFORMER SECONDARY	480V CONTROL CENTER
16	4"	3-#500 MCM 1-#320	TRANSFORMER SECONDARY	480V CONTROL CENTER
17	2"		TELEPHONE BOX	PLANT BOX
18	1"	1/C #3/O	GROUND TRANSFORMER PRIMARY	GROUND TRANSFORMER ROOM
19	1"	1/C #3/O	GROUND TRANSFORMER SECONDARY	GROUND TRANSFORMER ROOM
20	1"	1/C #3/O	GROUND TRANSFORMER ROOM	GROUND GRID
21	1"	1/C #3/O	SWITCHGEAR GROUND	GROUND GRID
22	2"	4-1/C #2/O	SLURRY PUMPING STATION CB	SLURRY PUMPING STATION
23	1 1/4"	4-1/C #2	RAILROAD LIGHT CB NO. 1	RAILROAD LIGHTS
24	1 1/4"	4-1/C #2	RAILROAD CB NO. 2	RAILROAD LIGHTS
25	1"	4-1/C #8	ROADLIGHT CB	ROAD LIGHTS
26	2"		CABLE TRAY DROP	SPARE
27	2"		CABLE TRAY DROP	SPARE
28	2"		CABLE TRAY DROP	SPARE
29	2"		CABLE TRAY DROP	SPARE
30	5"		CABLE TRAY DROP	SPARE
31	1"	3-1/C #12	VENTILATION FAN UB	VENT. FAN TRANSFORMER ROOM
32	5"		CABLE TRAY DROP	SPARE
33	5"		CABLE TRAY DROP	SPARE
34	5"		CABLE TRAY DROP	SPARE
35	2"		CABLE TRAY DROP	SPARE
36	2"		CABLE TRAY DROP	SPARE
37	2"		CABLE TRAY DROP	SPARE
38	1"	1/C #3/O	GROUND TRANSFORMER PRIMARY	GROUND GRID
39	1"	1/C #3/O	GROUND TRANSFORMER SECONDARY	GROUND GRID
40	5"		CABLE TRAY DROP	MANHOLE
41	2"		CABLE TRAY DROP	MANHOLE

* BUILDING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND STUB-UPS TO A POINT FIVE (5) FEET OUTSIDE CONTROL CENTER. CONVEYOR OR DISTRIBUTION CONTRACTOR SHALL THEN INSTALL ALL CONDUIT, DUCTBANK AND RISERS AS INDICATED ON PLANS.



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

NORTH-WEST CONTROL BUILDING CONDUIT & CABLE LAYOUT

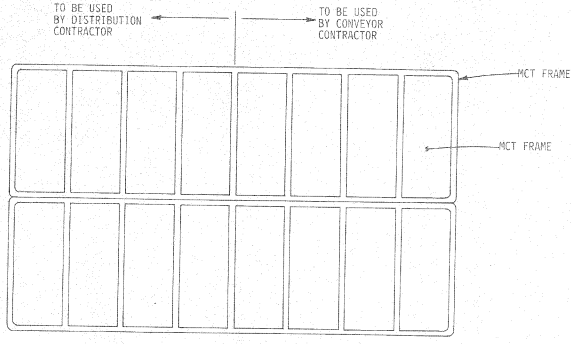
DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED	N.C.A.	DETAILED	N.C.A.	TRACED	R.A.B.
CHECKED	N.R.	CHECKED		CHECKED	
REVISIONS		DATE: APRIL 28, 1982			

SPEC. NO.	SHEET NO.
475	E-7

DATE: NO. 22, 1952

NORTHWEST MOTOR CONTROL BUILDING



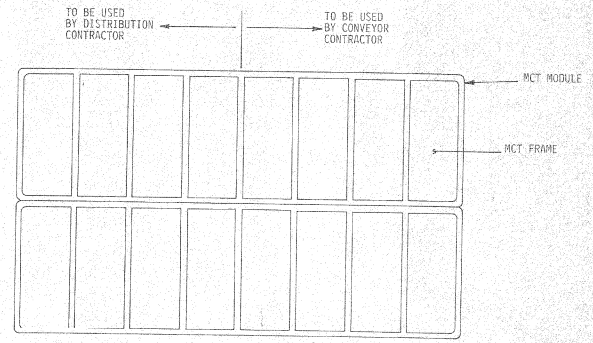
PLAN VIEW MULTI CABLE TRANSIT

SCALE: $\frac{1}{4}'' = 1'-0''$

NOTES

A "MULTI CABLE TRANSIT" SHALL BE USED IN BOTH THE NORTH-EAST AND THE NORTH-WEST CONTROL BUILDING. THE MCT SHALL BE AS MADE BY NELSON ELECTRIC CAT NO. RCM-8X8T WITH CHANNEL ASSEMBLY FOR A 6" THICK CONCRETE BLOCK WALL. IN BOTH CASES THE BUILDING CONTRACTOR SHALL FURNISH THE FRAME AND CHANNEL ASSEMBLY. THE CONVEYOR CONTRACTOR SHALL FURNISH THE END PACKING COMPRESSION PLATES, SPARE INSERT MODULES, STAY PLATES, FILL-IN INSERT PLATES AND MODULES FOR ALL CABLE AND BLANK SPACING. TO COMPLETELY FORM A WATERTIGHT AND FIREPROOF PENETRATION THROUGH THE WALL, IN THE SECTION DESIGNATED TO HIM. THE DISTRIBUTION SHALL DO THE SAME WITH HIS SECTION AND SHALL BE RESPONSIBLE FOR THE OVERALL FINISH OF THE COMPLETE TRANSIT SECTION.

NORTHEAST MOTOR CONTROL BUILDING



PLAN VIEW MULTI CABLE TRANSIT

SCALE: $\frac{1}{4}'' = 1'-0''$



THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

NORTH-EAST & NORTH-WEST MOTOR CONTROL BUILDING
CABLE TRANSIT DETAILS

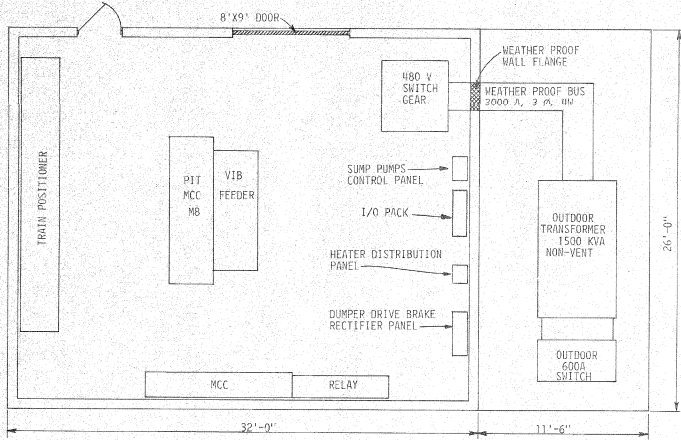
DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	H. C. A.	DETAILED	H. C. A.	TRACED	N. B. B.
CHECKED		CHECKED		CHECKED	H. C. A.
DATE		DATE		DATE	

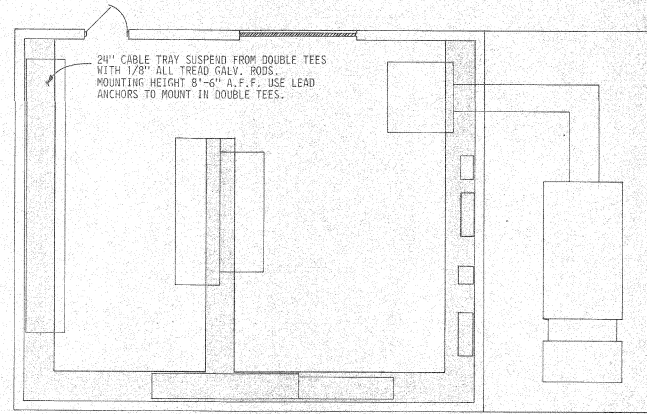
REVISIONS

SPEC. NO.		SHEET NO.
475		E-8

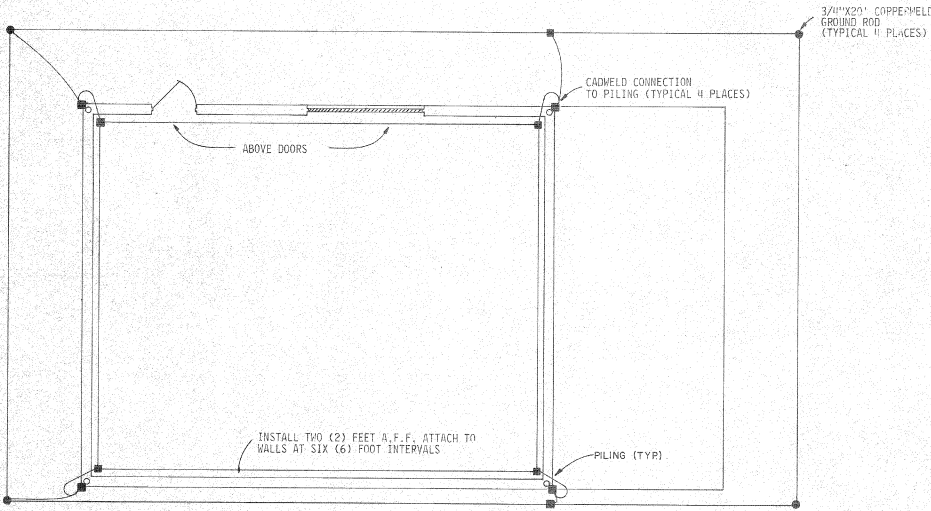
DWG. NO. 20-1125



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



CABLE TRAY PLAN
SCALE: 1/4" = 1'-0"

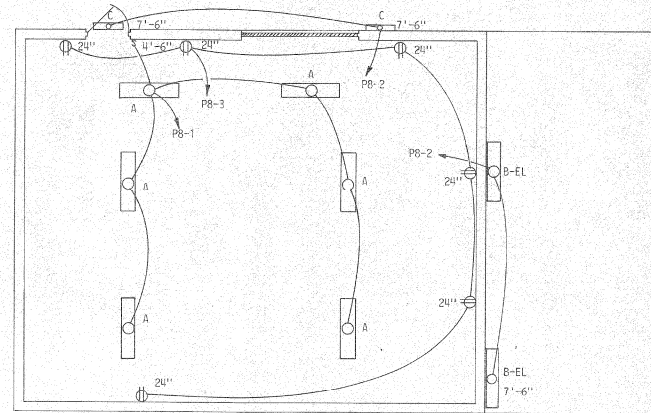


GROUNDING PLAN
SCALE: 1/4" = 1'-0"

GROUNDING NOTES:

1. USE 1" PVC CONDUIT SLEEVE WHERE GROUNDING CONDUCTOR PENETRATES WALLS OR SLABS.
2. ALL GROUNDING CONDUCTORS SHALL BE 2/0 AWG BARE STRANDED COPPER.
3. GROUND GRID SHALL BE INSTALLED IN THREE (3) FOOT TRENCH AT DISTANCE OF FIVE (5) FEET FROM BUILDING OR SLAB.
4. CONTRACTOR SHALL ATTACH ALL GROUNDING CONDUCTORS TO STEEL PILING. ALL CONNECTION POINTS SHALL BE THOROUGHLY CLEANED AND DEGREASED PRIOR TO CONNECTIONS BEING MADE.

5. ALL CONNECTIONS SHALL BE CADWELD.
6. ALL GROUNDING CONDUCTOR INSTALLED IN TRENCH SHALL BE COATED WITH ASPHALTUM PRIOR TO INSTALLATION.



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

NOTES:

- I. CONTRACTOR SHALL INSTALL "ES" BOXES FOR EQUIPMENT AT HEIGHTS AND LOCATIONS AS INDICATED ON PLANS AND STUB CONDUIT UP THROUGH WALL TO 8'-9" A.F.F., WHERE THE CONDUIT WILL COME OUT OF WALL AND ENTER THE CABLE TRAY.
- II. CONTRACTOR SHALL INSTALL LIGHT FIXTURES B & C AT LOCATIONS SHOWN. RUN CONDUIT THROUGH WALL AND INTO CABLE TRAY.

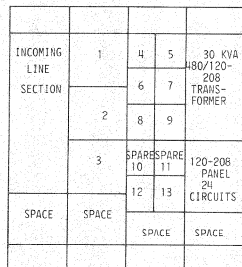


THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

CARDUMPER BUILDING EQUIPMENT AND CABLE TRAY LAYOUT

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED: N.C.A.	DETAILED: N.C.A.	TRACED: R.A.B.
CHECKED:	CHECKED:	CHECKED: J.C.H.
DATE:	DATE:	DATE:



CARDUMPER CONTROL BLDG. MCC LAYOUT
SCALE: NONE

CONTROL CENTER SHALL BE WESTINGHOUSE "FIVE STAR OR APPROVED EQUAL

CARDUMPER BUILDING EQUIPMENT SCHEDULE			
DESCRIPTION	FURNISHED BY	CONTRACTOR TO INSTALL	
TRANSFORMER 1500 KVA OUTDOOR & 480 V SWITCHGEAR	OWNER	DISTRIBUTION	
SUMP PUMPS CONTROL PANEL	CONVEYOR	CONVEYOR	
1/0 RACK	OWNER	CONVEYOR	
HEATER DISTRIBUTION PANEL	CARDUMPER	CARDUMPER	
DUMPER DRIVE BRAKE RECTIFIER	CARDUMPER	CARDUMPER	
RELAY PANEL	CARDUMPER	CARDUMPER	
MCC	CARDUMPER	CARDUMPER	
TRAINPOSITIONER CONTROL	CARDUMPER	CARDUMPER	
PIT MOTOR CONTROL CENTER MB	CONVEYOR	CONVEYOR	
VIBFEEDER PANEL	CONVEYOR	CONVEYOR	
CABLE TRAY	BUILDING	BUILDING	
GROUNDING GRID	BUILDING	BUILDING	
LIGHTS & RECEPTACLES AND AIRCONDITION	BUILDING	BUILDING	

* OWNER FURNISHED, CONVEYOR CONTRACTOR SHALL INSTALL.

SCHEDULE LOAD CENTER MB							
MFR: WESTINGHOUSE		SERVICE		FEEDER: 6 #350 MCM 2 #4/0			
TYPE: FIVE STAR		277/480 V 3 Ø 4W		MAIN: 600 AMPS			
CLASS: I							
TYPE: WESTINGHOUSE - MC							
CIR. NO.	DESCRIPTION	WIRE SIZE	NO. POLES	W. TYPE	TRIP AMPS	LOAD WATTS	
1	CONVEYOR #22 STARTER	2/0	3	A206-4	120	70000	
2	CONVEYOR #23 STARTER	2/0	3	A206-4	120	67000	
3	VIB. FEEDER PANEL FEEDER	2/0	3	KB	150	67000	
4	SUMP PUMP PANEL FEEDER	2	3	FB	85	53250	
5	WELDING RECEPTACLE	4	3	FB	60	20000	
6	CONVEYOR 16 & TOWER T11 LIGHTS	12	1	FB	20	2786	
7	30 KVA TRANSFORMER FEEDER	6	3	FB	45	4298	
8	ELECTRICAL HOISTS CARDUMPER PIT & TOWER T11	4	3	FB	60	10975	
9	HOIST CARDUMPER UTILITY SHAFT	12	3	FB	20	10475	
10	LIGHTS CARDUMPER PIT	12	2	FB	20	1393	
11	LIGHTS CARDUMPER PIT	12	2	FB	20	1194	
12	LIGHTS STAIRWAY CARDUMPER PIT	12	2	FB	20	1791	
13	1/0 RACK TRANSFORMER	12	2	FB	15	5000	
14	AIRCONDITION UNIT	10	3	FB	30	14625	
						329287	
						I = 329287	
						V $\sqrt{3}$ X 208 X 0.9 = 440.07 AMPS	

NOTES:

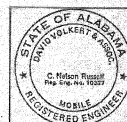
- CONTRACTOR SHALL INSTALL ALL ELECTRICAL INSTALLATION AS SHOWN, UTILIZING THE CABLE TRAY WHERE POSSIBLE.
- BUILDING CONTRACTOR SHALL NOT PERFORM THE FINAL CONNECTION AND TESTING OF ALL LIGHTS AND RECEPTACLE CIRCUITS, UNTIL ALL EQUIPMENT HAS BEEN INSTALLED BY THE CONVEYOR CONTRACTOR AND ALL POWER SUPPLY CONNECTION HAVE BEEN MADE BY THE DISTRIBUTION CONTRACTOR.
- BUILDING CONTRACTOR SHALL INSTALL A DISCONNECT SWITCH ON THE OUTSIDE OF THE AIRCONDITIONING UNIT AND OVERCURRENT PROTECTION INSIDE THE UNIT FOR BOTH THE HEATER AND THE AIRCONDITIONING UNIT.

LIGHTING FIXTURE SCHEDULE						
MARK	MANUFACTURER	CATALOG NO.	LAMPS		MOUNTING	REMARKS
			NO.	TYPE		
A	MILLER	KD2100-04	2	40/RS	ON BAR JOIST	
BEL	MILLER	KW2300-01-04	2	40/RS	ON WALL @ 7'-6" ^{INSTALL OVER SWITCHES}	ATTN: OVER SWITCHES
C	HOLOPHANE	WALLPACK	1	150 HPS	ON WALL A 7'-6"	

LIGHTING & POWER NOTES:

- LIGHT FIXTURE "A": VAPOR FLUORESCENT MILLER NO. KD 2100-04, 2-40 W/RS, MOUNTED ON BAR JOIST.
- LIGHT FIXTURE "B": WATER TIGHT FLUORESCENT WITH EMERGENCY BATTERY PACK MILLER NO. KW 2300-01-04 MOUNTED ON WALL 7'-0" ABOVE FINISH FLOOR
- LIGHT FIXTURE "C": HOLOPHANE TYPE: WALL PACKETTE 175 MERCURY MOUNTED ABOVE DOOR
- CONVENIENCE OUTLETS SHALL BE 120 VOLT, 20 AMPS, SURFACE MOUNTED, HEAVY DUTY FOR INDUSTRIAL SERVICE, HUBBELL NO. 5262 IN STEEL BOX WITH STEEL COVER PLATE, MOUNTED 24" A.F.F.
- LIGHT SWITCHES SHALL BE 120 V, 20 AMPS SINGLE OR THREE WAY AS REQUIRED, SURFACE MOUNTED, HUBBELL NO. 1221 IN STEEL BOX WITH STEEL COVER PLATE, MOUNTED 4'-6" A.F.F.

SCHEDULE PANEL P8									
PANEL: WESTINGHOUSE C31-C5		SERVICE		FEEDER: 3 #2 1 #4 THW					
MOUNTING: RECESSED		120/208 3 Ø 4W		MAIN: 100 AMP MLO					
CRT. NO.	C. B. NO.	CONDUCTOR	WIRE SIZE	EQUIPMENT	LOCATION	LOAD PHASE	LOAD PHASE	LOAD PHASE	LOAD PHASE
1	20	1	3/4"	12	LIGHTS	CARDUMPER MCC BLDG.	600		
2	20	1	3/4"	12	OUTSIDE LIGHTS	CARDUMPER MCC BLDG.	598		
3	20	1	3/4"	12	RECEPTACLES	CARDUMPER MCC BLDG.			1000
4	20	1	3/4"	12	RECEPTACLES	CARDUMPER PIT	1000		
5	20	1	3/4"	12	RECEPTACLES	CARDUMPER PIT	1000		
6	20	1	3/4"	12	EMERGENCY LIGHT	CARDUMPER MCC BLDG.			1000
7	20	1	3/4"	12	SPARE	CARDUMPER MCC BLDG.	1000		
8	20	1	3/4"	12	SPARE	STAIRWAY CARDUMPER PIT	1314		
9	20	1			SPARE				
10	20	1			SPARE				
11-24					SPACES				
						1600	1598	1100	
						I = 4298			
						V $\sqrt{3}$ X 208 X 0.9 = 13.25 AMPS			

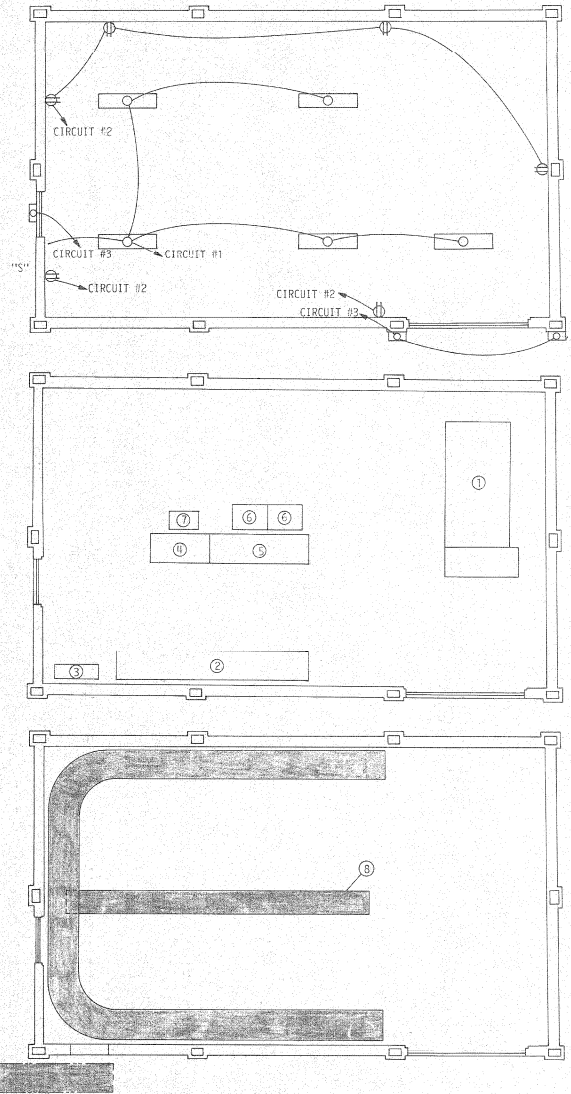


THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

ELECTRICAL DETAIL CARDUMPER MOTOR CONTROL CENTER

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED	N. C. A.	DETAILED	N. C. A.	TRACED	M. A. B.
CHECKED	N. R.	CHECKED	N. C. A.	CHECKED	N. C. A.
REVISIONS		DATE: APRIL 27, 1982			



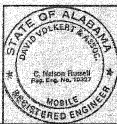
LIGHTING & POWER NOTES:

1. LIGHT FIXTURE "A" - VAPOR FLUORESCENT MILLER NO. KD 2100-04. 2-40 W/RS, MOUNTED ON BAR JOIST.
2. LIGHT FIXTURE "B" - HOLOPHANE TYPE: WALL PACKETTE 175 MERCURY MOUNTED ABOVE DOOR.
3. CONVENIENCE OUTLETS SHALL BE 120 VOLT, 20 AMPS, SURFACE MOUNTED, HEAVY DUTY FOR INDUSTRIAL SERVICE. HUBBELL NO. 5262 IN STEEL BOX WITH STEEL COVER PLATE. MOUNTED 24" A.F.F.
4. LIGHT SWITCHES SHALL BE 120 V., 20 AMPS SINGLE OR THREE WAY AS REQUIRED, SURFACE MOUNTED, HUBBELL NO. 1221 IN STEEL BOX WITH STEEL COVER PLATE. MOUNTED 4'-6" A.F.F.
5. CIRCUIT #1-2-3 ARE SPARE 20 AMPS - 1-POLE BREAKERS LOCATED IN THE MOTOR CONTROL CENTER.

BARGE UNLOADER CONTROL BUILDING EQUIPMENT SCHEDULE		
NUMBER	DESCRIPTION	CONTRACTOR TO FURNISH
1	750 KVA SUBSTATION	BARGE UNLOADER
2	MOTOR CONTROL CENTER	BARGE UNLOADER
3	RELAY LOGIC PANEL	BARGE UNLOADER
4	TROLLEY CONTROLLER	BARGE UNLOADER
5	BARGE HAUL CONTROLLER	BARGE UNLOADER
6	BARGE HAUL CONTROLLER ISOLATION TRANSFORMERS	BARGE UNLOADER
7	TROLLEY CONTROLLER ISOLATION TRANSFORMERS	BARGE UNLOADER
8	CABLE TRAY	BARGE UNLOADER
9	LIGHTS & RECEPTACLES & AIRCONDITION.	BUILDING

NOTES:

1. BUILDING CONTRACTOR SHALL NOT PERFORM FINAL CONNECTION AND TESTING OF ALL LIGHTS AND RECEPTACLE CIRCUITS, UNTIL ALL EQUIPMENT HAS BEEN INSTALLED BY BARGE UNLOADER CONTRACTOR AND ALL POWER SUPPLY CONNECTION HAVE BEEN MADE BY DISTRIBUTION CONTRACTOR.
2. CONTRACTOR SHALL INSTALL A 3-POLE-30AMP BREAKER IN THE MOTOR CONTROL CENTER TO FEED THE AIR-CONDITION UNIT.
3. BUILDING CONTRACTOR SHALL INSTALL A DISCONNECT SWITCH ON THE OUTSIDE OF THE AIR-CONDITIONING UNIT AND OVERCURRENT PROTECTION INSIDE THE UNIT FOR BOTH THE HEATER AND THE AIRCONDITIONING.
4. SEE MECH. DRAWINGS FOR DETAILS AND LOCATION OF THE AIRCONDITIONING UNIT.

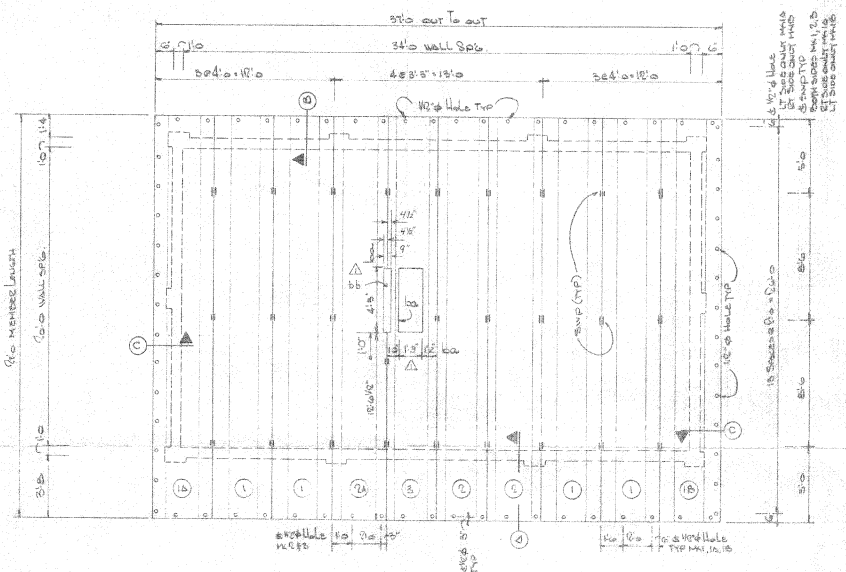


THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

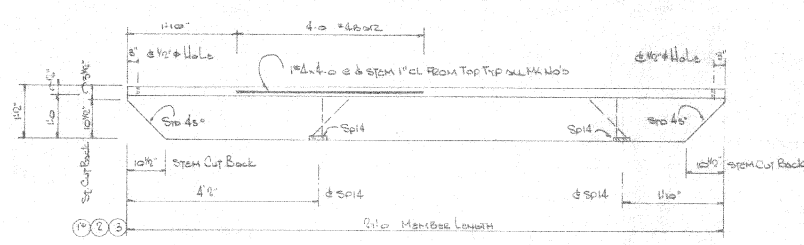
BARGE UNLOADER CONTROL BUILDING

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED	N.C.A.	DETAILED	N.C.A.	TRACED	B.A.B.
CHECKED		CHECKED		CHECKED	N.C.A.
REVISIONS		DATE			

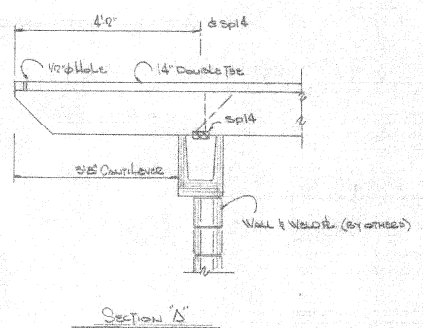


Roof Framing Plan 14' Double Tee
1/4" = 1'0"

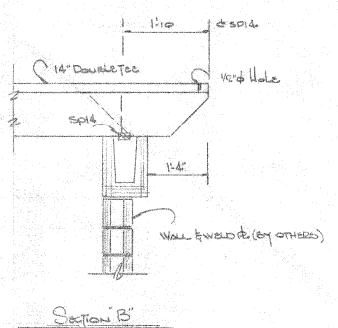


Member Detail

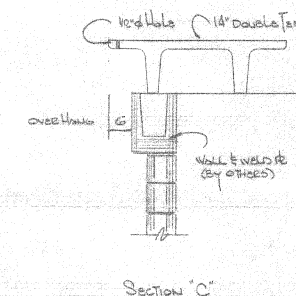
Fabricator Note: MEMBER LENGTH IS CRITICAL - ENDS MUST BE SQUARE. USE STRONG IRON PILES ON ENDS. PILE STRONG & FINISH ENDS PRIOR TO SHIPPING.



SECTION 'A'



SECTION 'B'



SECTION 'C'

DAVID VOLKERT & ASSOCIATES	
Recommended for Approval	By
X Approved As Submitted	RD
Approved Except As Noted	Date
Revised and Resubmit	5/7/82
Disapproved	

APPROVAL IS TO GENERAL LAYOUT ONLY, AND IN NO WAY RELIEVES THE CONTRACTOR OR SUPPLIER OF HIS RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS. DETAILS OF WORK COVERED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND JOB CONDITIONS.

- LEGEND
- Sp14 - STEEL PILING 14" DI.
 - ba - BLOCKOUT OR 1'3" X 2'4" B.
 - Smp - SIDEWALK PL - STD 14" DI.
 - bb - 9" X 4" B.

General Notes

1. GENERAL CONTRACTOR SHALL FIELD CHECK & VERIFY ALL DIMENSIONS & CONDITIONS @ JOBSITE.
2. SECTION BY OTHER - OUR PRODUCTS FAB TOXICO JOBSITE.
3. CONCRETE STRENGTH SHALL BE 5000 PSI MINIMUM.
4. RELEASE STRENGTH SHALL BE 3500 PSI MIN.
5. TOP FINISH SHALL BE MASS FLOOR - STEEL TRAVEL.

MAY 6 1982
FOR JOB USE

400 B.L.K.

STRUCTURAL MARQUE LLC	
MOBILE, ALABAMA	ALABAMA
SCALE AS NOTED	APPROVED BY
DATE: 4-1-82	DRAWN BY: MALLIN
FABRICE UNILONGE - ELECTRICAL PHOTO	
ALABAMA TRUCK DOCKS - MOBILE, ALABAMA	
ROOF FRAMING PLAN - 14" DI x 4'0"	DRAWING NUMBER
	1 of 1

REVISION: LOCATION BLOCKOUT - a. AND STAIR ABOVE BLOCKOUT - b. 4/30/82