Hon. Pedro R. Pierluisi Urrutia
Gobernador

Lcda. Karla G. Mercado Rivera
Administradora y Principal Oficial de Compras

NOTIFICACIÓN NÚMERO 2
SUBASTA FORMAL 22J-03683

PARA PROYECTO DE DEMOLICIÓN PARCIAL Y REMOCIÓN DE ESTRUCTURA DE METAL DEL MUELLE PANAMERICANO DE LA AUTORIDAD DE LOS PUERTOS DEL GOBIERNO DE PUERTO RICO

ASUNTO: CONTESTACIÓN DE PREGUNTAS

Se notifica a los licitadores invitados a participar en la adquisición de referencia, de las preguntas y contestaciones a la subasta formal en referencia.

Contestaciones Toledo Engineering LLC a preguntas para subasta Administración de Servicios Generales

1. P. ¿Los cientos ochenta (180) días indicados en el pliego de subasta es periodo para la ejecución de las obras luego de obtener los permisos?
   R. Sí, los 180 días es después de obtener los permisos.

2. P. En la tabla de Cotizar se indica que se incluyó como anejo el estudio de asbesto y plomo y las certificaciones de asbesto y plomo, sin embargo, no se incluyeron en los pliegos de subasta. ¿Pueden enviarlos?
   R. Ver anejo informe Pb Panamericano 1.

3. P. ¿Es necesario los empleados tengan TWIC para tener acceso al proyecto?
   R. Sí, en el Pliego, página 29, Sección VII. Condiciones e Instrucciones Especiales, número 32.

4. P. ¿La plataforma intermedia y del último nivel, tienen hormigón?
   R. Referirse al plano enviado en anejo PAN AMERICAN TERMINAL PASSENGER BRIDG -PHASE FULL SET.

5. P. ¿Los equipos que aparecen debajo del área a demoler, el dueño los va a remover?
   R. Sí, personal de la Autoridad de los Puertos los removerá.

6. P. ¿Cuál será el horario de trabajo?
   R. Lunes a Viernes 5:30 a.m. a 4:00 p.m.

7. P. ¿Hay algún equipo o maquinaria que no se pueda utilizar?
   R. De utilizar una grúa, tiene que ser menor de 200 pies de altura.
   El sistema de rodaje de cualquier equipo NO puede ser de cadena de metal.

Contestaciones IFCO Recycling, Inc a preguntas para subasta Administración de Servicios Generales

1. P. ¿Se realizarán pruebas para conocer si el metal tiene plomo?
   R. Sí, referir al informe de pruebas anejado.

2. P. ¿El hierro está libre de plomo?
   R. Sí.

3. P. ¿Los soportes de las columnas, hay que removerlos desde la raíz o sobre la base del suelo?
   R Referirse al Pliego, página 28, Condiciones e Instrucciones Especiales, Sección Número VII. Números 24 y 25. Dejar a nivel de la superficie existente.

4. P. La medida de 57, rotulada en la imagen descrita como Panamerican East Bridge ¿es en metro?
   R. No. Corregir de 57 pies a 174 pies aproximado.

5. P. ¿Existe alguna restricción de equipo?
   R. De utilizar una grúa, tiene que ser menor de 200 pies de altura. El sistema de rodaje de cualquier equipo NO puede ser de cadena de metal.

6. P. ¿Cuál es el horario de trabajo?
   R. Lunes a Viernes 5:30 a.m. a 4:00 p.m.

Contestaciones SLSCO a preguntas para subasta Administración de Servicios Generales

1. P. ¿Cuál es el presupuesto disponible para el proyecto?
   R. No se indicará el presupuesto para el proyecto. Cada licitador tiene que ofertar un precio razonable.

2. P. ¿Favor de proveer itinerario de cruceros?
   R. Estará disponible luego de adjudicarse la subasta y que se haya establecido una fecha de comienzo del proyecto.

3. P. ¿Clarificar cuál es el tonelaje máximo que se permite sobre el muelle?
   R. Referirse al plano enviado en anejo PAN AMERICAN TERMINAL PASSENGER BRIDG -PHASE FULL SET.

4. P. El item 3 de la tabla de Cotizar hace referencia a un Apendix. Favor de proveer los mismos.
   R. Ver exclusión categoría anejada

5. P. ¿Identificar zona asignada como centro de acopio temporero para la demolición?
   R. Se coordinará con el supervisor de operaciones y asignará luego de adjudicarse la subasta.

6. P. ¿Identificar zona donde se puedan dejar los equipos luego de la jornada laboral?
   R. Se coordinará con el supervisor de operaciones y asignará luego de adjudicarse la subasta. El contratista será responsable de sus equipos.

7. P. ¿Favor de clarificar si existen conexiones eléctricas activas dentro de la estructura a demoler?
   R. Sí, Coordinar con Supervisor de operaciones.

8. P. ¿Existe alguna tubería o acometidas en el perímetro a trabajar?
   R. Sí

9. P. ¿Favor de clarificar si todas las medidas en las imagines del ámbito son en pies o metros?
   R. Las medidas son en pies. Corregir de 57 pies a 174 pies aproximado.

Contestaciones VAS Contractor a preguntas para subasta Administración de Servicios Generales

1. P. ¿Para el referido Proyecto, los permisos de demolición seria responsabilidad del contratista? ¿así como los pagos de arbitrios municipales?
   R. Sí, es responsabilidad del licitador agraciado conseguir los permisos de demolición y pagar los arbitrios municipales y estatales.

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2. P. ¿Para la protección perimetral en área de trabajo, específicamente lado opuesto a la terminal de frente a la Bahía, alguna protección en particular a implementar?
   R. Referirse al Pliego, páginas 27 a 28, Sección VII. Condiciones e Instrucciones Especiales, "Job Conditions" números 10 a 21.

Esta notificación forma parte del pliego de subastas y quienes interesen licitar, tendrán que considerarla al presentar su oferta. Todos los demás términos, condiciones y especificaciones permanecerán sin alterar.

Edmarie Avilés Almena
Secretaria
Junta de Subastas ASG

Emitido hoy martes, 26 de mayo de 2022
San Juan, Puerto Rico

JUNTA DE SUBASTAS
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GOBIERNO DE PUERTO RICO

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PAN AMERICAN TERMINAL
PASSSENGER BRIDGE
SAN JUAN, PUERTO RICO

PORTS AUTHORITY
PUERTO RICO

AS-BUILT

RAY
ARCHITECTS
ENGINEERS

BEA INTERNATIONAL
ARCHITECTS
ENGINEERS
INTERIOR DESIGNERS
PLANNERS
CONSTRUCTION MANAGERS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ACC	ACCESS
ACPL	ACCESS FLOOR
AP	ACCESS PANEL
AC	ACOUSTICAL
ACT	ACOUSTICAL TILE
ADD	ADDENDUM
ADH	ADHESIVE
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECT (URAL)
AD	AREA DRAIN
ASPH	ASPHALT
AC	ASPHALTIC CONCRETE
BM	BENCH MARK
BVL	BEVELED
BIT	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOM
BRK	BRICK
BLDG	BUILDING
BUR	BUILT UP ROOFING
BOU	BOTTOM OF UNIT
CAB	CABINET
CSMT	CASEMENT
CI	CAST IRON
CIP	CAST IRON PIPE
CIPC	CAST-IN-PLACE CONCRETE
CB	CATCH BASIN
CK	CAULK (CAULKING)
CLG	CEILING
CEM	CEMENT
CL	CENTERLINE
CER	CERAMIC
CT	CERAMIC TILE
CIR	CIRCLE
CIRC	CIRCUMFERENCE
CO	CLEAN OUT (SEWER)
CLA	CLEARANCE
CLS	CLOSURE
COMB	COMBINATION
COMPT	COMPARTMENT
COMPO	COMPOSITION (COMPOSITE)
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACT (OR)
CJ	CONTROL JOINT
CPR	COPPER
CG	CORNER GUARD
CRP	CORRUGATED METAL PIPE
CTR	COUNTER
CFL	COUNTERFLASHING
CS	COUNTERSINK
CTSK	COUNTERSINK SCREW
CRS	COURSE (S)
CBS	CONCRETE BLOCK STRUCTURE
CWS	COLD WATER SUPPLY
CWR	COLD WATER RETURN
CIG	CURB & GUTTER
DPR	DAMPER
DP	DAMPROOFING
DL	DEAD LOAD
DEM	DEMOLISH (DEMOLITION)
DEP	DEPRESSED
DTL	DETAIL
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DPNR	DISPENSER
DIV	DIVISION
DR	DOOR
DS	DOWNSPOUT
D	DRAIN
DWR	DRAWER
DWG	DRAWING
DW	DRIVEWAY
DDC	DIRECT DIGITAL CONTROL
ESMT	EASEMENT
EP	EDGE OF PAVEMENT
ELEC	ELECTRIC (AL)
EP	ELECTRICAL PANELBOARD
EL	ELEVATION
EMER	EMERGENCY
ENC	ENCLOSURE
EQ	EQUAL
EQP	EQUIPMENT
EST	ESTIMATE
EXCA	EXCAVATE
EXH	EXHAUST
EXG	EXISTING
EB	EXPANSION BOLT
EXP	EXPOSED
EXT	EXTERIOR
EA	EACH
FOF	FACE OF FINISH
FOC	FACE OF CONCRETE
FOB	FACE BRICK
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FF	FACTORY FINISH
FAS	FASTEN (FASTENER)
FN	FENCE
FGL	FIBERGLASS
FIN	FINISH
FFE	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FG	FINISHED GRADE
FRP	FIBERGLASS REINFORCED PANELS
FS	FINISHED SURFACE
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FP	FIRE PROOF
FRC	FIRE-RESISTANT COATING
FRT	FIRE-RETARDANT
FLG	FLASHING
FHWS	FLATHEAD WOOD SCREW
FLX	FLEXIBLE
FLR	FLOOR (ING)
FLCO	FLOOR CLEANOUT
FD	FLOOR DRAIN OR FIRE DAMPER
FPL	FLOOR PLATE
FL	FLOOR LINE
FLUR	FLUORESCENT
FTG	FOOTING
FND	FOUNDATION
FR	FRAME (D) (ING)
FUR	FURRED (ING)
GA	GAGE, GAUGE
GV	GALVANIZE
GI	GALVANIZED IRON
GP	GALVANIZED PIPE
GSS	GALVANIZED STEEL SHEET
GKT	GASKET (ED)
GC	GENERAL CONTRACT (OR)
GL	GLASS, GLAZING
GB	GRAB BAR
GD	GRADE, GRADING
GRN	GRANITE
GVL	GRAVEL
GF	GROUND FACE
GT	GROUT
GPDW	GYPSUM DRY WALL
GPL	GYPSUM LATH
GPPL	GYPSUM PLASTER
GPT	GYPSUM TILE
HDW	HARDWARE
HUD	HUD
HJT	HEAD JOINT
HDR	HEADER
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR COND.
HD	HEAVY DUTY
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HOR	HORIZONTAL
HB	HOSE BIBB
HWH	HOT WATER HEATER
HCP	HANDICAPPED
HP	HIGH POINT
INCL	INCLUDE (D) (ING)
INV	INVERT ELEVATION
ID	INSIDE DIAMETER
INS	INSULATE (D) (ION)
INSC	INSULATING CONCRETE
INSP	INSULATING FILL
INT	INTERIOR
INTM	INTERMEDIATE
JT	JOINT
JF	JOINT FILLER
J	JOIST
KPL	KICKPLATE
KIT	KITCHEN
LBL	LABEL
LAB	LABORATORY
LAD	LADDER
LB	LAG BOLT
LAM	LAMINATE
LAV	LAVATORY
LT	LIGHT
LC	LIGHT CONTROL
LTL	LINTEL
LL	LIVE LOAD
LVR	LOUVER
MH	MANHOLE
MFR	MANUFACTURE (ER)
MAS	MASONRY
MO	MASONRY OPENING
MTL	MATERIAL (S)
MAX	MAXIMUM
MECH	MECHANIC (AL)
MBR	MEMBER
MMB	MEMBRANE
MET	METAL
MTFR	METAL FURRING
MTHR	METAL THRESHOLD
MWK	MILLWORK
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MOD	MODULAR
MLD	MOULDING, MOULDING
MT	MOUNT (ED)
MOV	MOVABLE
MULL	MULLION
MLWD	MEAN LOW WATER DATUM OF 1929
NL	NAILABLE
NAT	NATURAL
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER (S)
OPG	OPENING
OD	OUTSIDE DIAMETER
OA	OVERALL
OH	OVERHEAD
OS	OVERFLOW SCUPPER
PNT	PAINT (ED)
PNL	PANEL
PB	PANIC BAR
PAR	PARALLEL
PBD	PARTICLE BOARD
PTN	PARTITION
PV	PAVE (D) (ING)
PVMT	PAVEMENT
PED	PEDESTAL
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
PG	PLATE GLASS / FLOAT GLASS
PWD	PLYWOOD
PC	PHOTOCELL
PVC	POLYVINYL CHLORIDE
PCC	PORTLAND CEMENT CONCRETE
PTC	POST-TENSIONED CONCRETE
PP	POWER POLE
PRFB	PREFABRICATE (D)
PRFN	PREFINISHED
PL	PROPERTY LINE
PT	PRESSURE TREATED
QT	QUARRY TILE
RAG	RETURN AIR GRILLE
RAD	RADIUS
RLG	RAILING
REF	REFERENCE
RFL	REFLECT (ED) (ING) (OR)
REFR	REFRIGERATOR
REG	REGISTER
RE	REINFORCE (D) (ING)
RCP	REINFORCED CONCRETE PIPE
REM	REMOVE
REQD	REQUIRED
RES	RESILIENT
REST	RESTAURANT
RA	RETURN AIR
REVR	REVERSE (SIDE)
REV	REVISION (S) REVISED
ROU	ROUGH
R	RISER
RD	ROOF DRAIN
RH	ROOF HATCH
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RB	RUBBER BASE
RBT	RUBBER TILE
RL	RAIN LEADER
RWL	RAIN WATER LEADER
SPGL	SAFETY GLASS
SS	SANITARY SEWER
SCH	SCHEDULE
SHT	SHEAT HING
STG	SEATING
SEC	SECTION
SINK	SERVICE SINK
SNTH	SHEATHING
SHT	SHEET
SG	SHEET GLASS
SH	SHELF, SHELVING
SIM	SIMILAR
SKL	SKYLIGHT
SL	SLEEVE
SC	SOLID CORE
SR	SOUNDPROOF
SPC	SPACING
SPK	SPEAKER
SPL	SPECIAL
SPEC	SPECIFICATION (S)
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STA	STATION
ST	STEEL
STO	STORAGE
SD	STORM DRAIN
STR	STRUCTURAL
SCT	STRUCTURAL CLAY TILE
SUS	SUSPENDED
SYS	SYSTEM
SAR	SURFACE AIR REGISTER
TEL	TELEPHONE
TC	TERRA COTTA
TZ	TERRAZZO
THK	THICK (NESS)
THR	THRESHOLD
TBR	TO BE REMOVED
TPTN	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TC	TOP OF CURB
TP	TOP OF PAVEMENT
TSL	TOP OF STEEL
TBT	TOP OF WALL
TB	TOWEL BAR
TR	TRANSOM
T	TREAD
TYP	TYPICAL
TOU	TOP OF UNIT
U.L.	UNDERWRITERS' LABORATORIES, INC.
UO	UNDERCUT
UNF	UNFINISHED
UG	UNDERGROUND
UR	URINAL
UON	UNLESS OTHERWISE NOTED
VTR	VENT THROUGH ROOF
VB	VAPOR BARRIER
VERT	VERTICAL
VG	VERTICAL GRAIN
VIN	VINYL
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VF	VINYL FABRIC
VT	VINYL TILE
VCP	VITRIFIED CLAY PIPE
V	VENT
VCT	VITREOUS CLAY TILE
WMT	WAINSCOT
WTO	WALL TO WALL
WH	WALL HUNG
WC	WALL COVERING
WCL	WATER CLOSET
WP	WATERPROOFING
WR	WATER REPELLENT
WS	WATERSTOP
WW	WELDED WIRE FABRIC
WIN	WINDOW
WG	WIRED GLASS
WM	WIRE MESH
W/	WITH
W/O	WITHOUT
WD	WOOD
WB	WOOD BASE
WHA	WATER HAMMER ARRESTOR

INDEX

I1 INDEX OF DRAWINGS, ABBREVIATIONS AND PROJECT LOCATION

ARCHITECTURAL

A1.0A SITE PLAN
A1.1 FIRST SAFETY PLAN
A1.2.1 FIRST SAFETY PLAN
A1.2.2 LIFE SAFETY PLANS
A1.2 FIRST AND SECOND FLOOR PLAN
A1.3 THIRD FLOOR AND ROOF PLAN
A1.3 FIRST FLOOR REFLECTED CEILING PLAN
A2.3 REFLECTED CEILING PLANS
A3.0 SEAWOIE ELEVATION
A3.1 LONGITUDINAL SECTION
A3.2 TRANSVERSAL SECTIONS
A3.3 LAND SIDE ELEVATION
A3.4 TRANSVERSAL SECTION
A3.5 CONNECTOR BRIDGE
A4.0 STAIR NO1 & NO3
A4.1 STAIR NO2
A5.0D RAILING TYPES FLOOR PLANS
A5.01 RAILINGS ELEVATIONS AND DETAILS
A5.02 RAILINGS DETAILS
A5.03 WALL SECTIONS
A6.0 FINISH SCHEDULE

MECHANICAL

M2.0 FIRST, SECOND AND THIRD FLOOR HVAC PLAN LAYOUT
M6.0 HVAC SCHEDULES AND DETAILS

PL1.0 GENERAL PLUMBING NOTES, SCHEDULES AND DETAILS
PL2.0 FIRST SECOND, THIRD AND ROOF PLAN PLUMBING LAYOUT

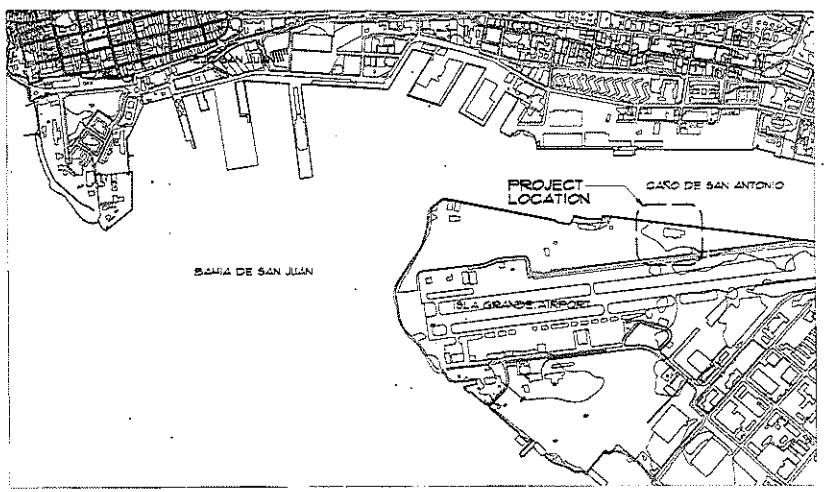
FP1 FIRE PROTECTION SPRINKLERS DIST.

ELECTRICAL

E2.0.0 FIRST FLOOR LIGHTING PLAN
E2.0.1 FIRST AND SECOND FLOOR LIGHTING PLAN
E2.0.2 THIRD FLOOR LIGHTING PLAN AND ROOF POWER PLAN
E2.0.3 DETAILS
E2.0.4 DETAILS
E3.0.1 COMMUNICATION PLAN
E4.0.0 SECURITY PLAN
E4.0.1 SECURITY PLAN
E5.0.0 SCHEDULES AND DETAILS

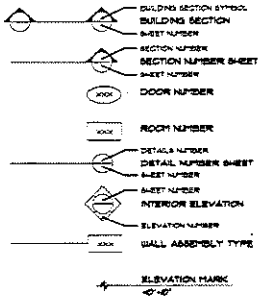
STRUCTURAL

S-1 FOUNDATION PLAN SECTIONS & DETAILS
S-2 UPPER & LOWER ROOF FRAMING PLAN
S-2A FRAME ELEVATIONS
S-3 FRAME ELEVATIONS & DETAILS
S-3A SECTIONS & DETAILS
S-4 SECTIONS & DETAILS
S-5 STRUCTURAL NOTES & MISCELLANEOUS DETAILS



VICINITY MAP
NTS

SYMBOLS



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PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

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SHEET TITLE:
ABBREVIATIONS INDEX AND PROJECT LOCATION

REVISIONS:
CD 8/28/01

AS-BUILT

SUBMITTAL:
30% 06/26/00

SCALE: N.T.S.

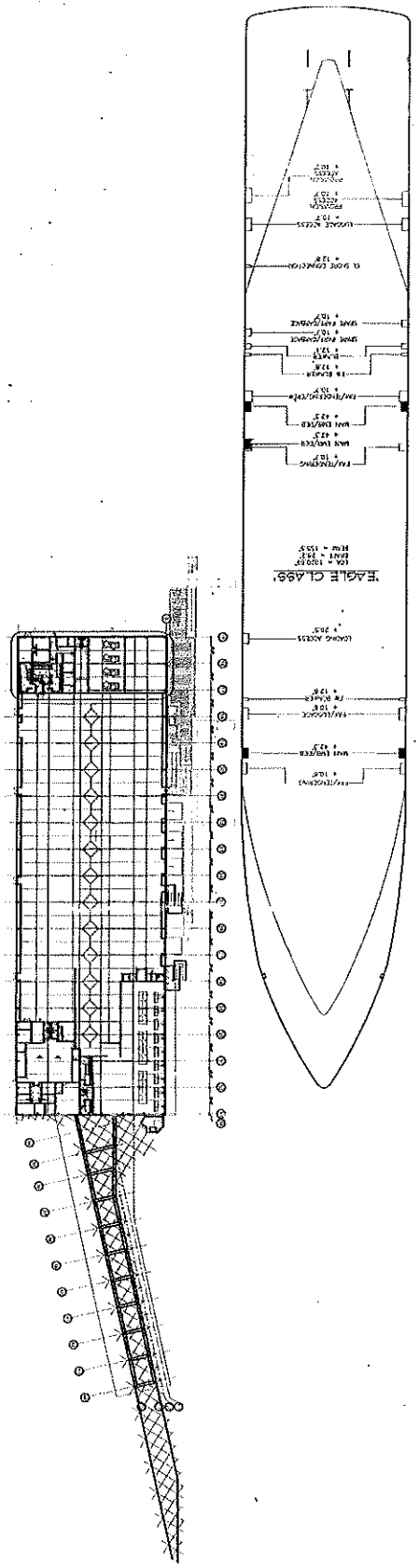
DATE: 09/20/00

PROJECT No: 00-0653

DRAWN BY: CHECKED BY:

SHEET No

I1



SITE PLAN
SCALE: 1" = 50'-0"

N

PAN AMERICAN TERMINAL
PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

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SHEET TITLE: SITE PLAN
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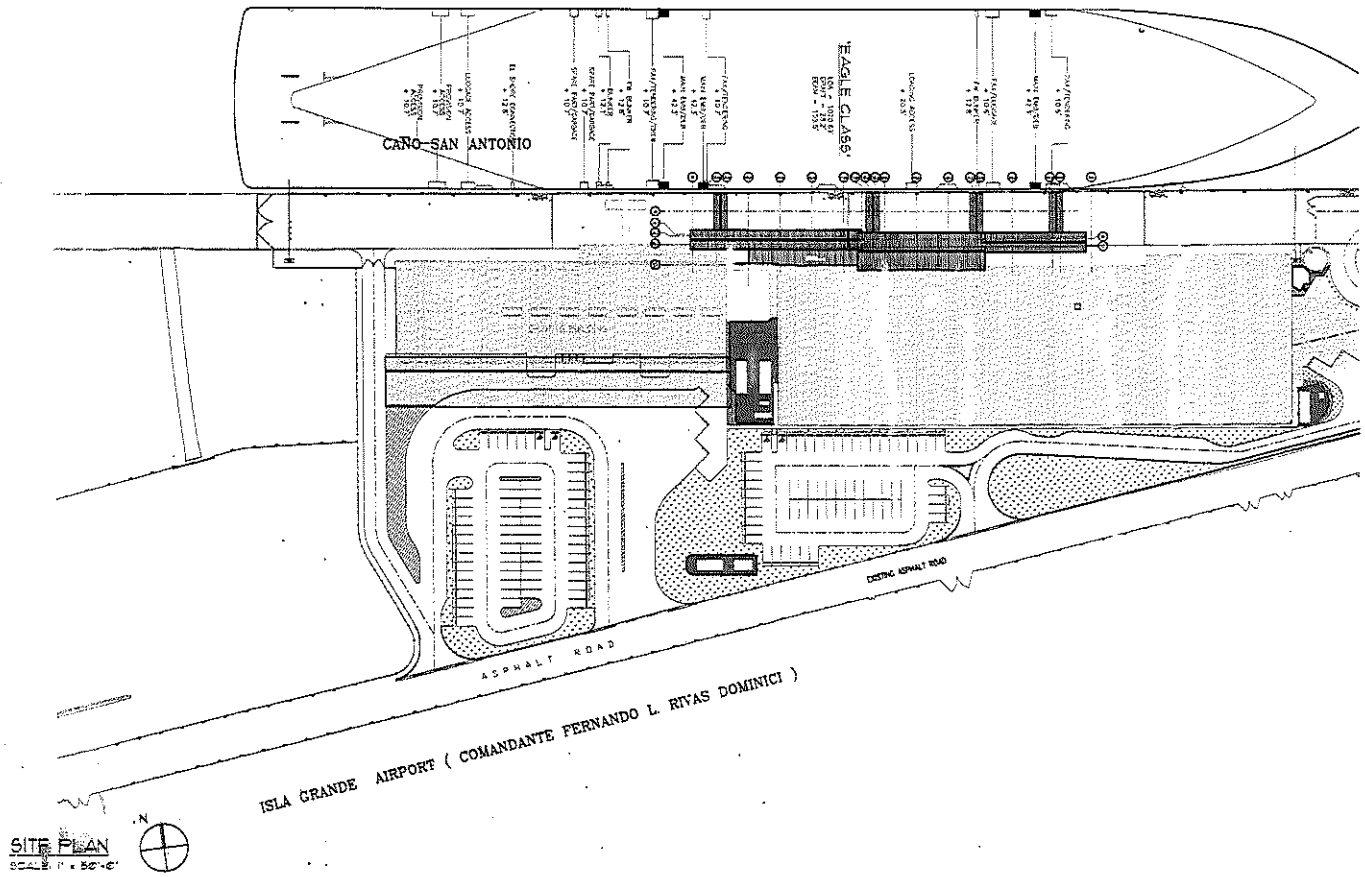
SUBMITTAL: 03/30/01 GENERAL REVISION
SCALE: 1" = 50'-0"
DATE:
PROJECT No: 00-118
DRAWN BY:
CHECKED BY:
SHEET No: A1.0



SITE PLAN
SCALE: 1" = 50'-0"

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PASSENGER BRIDGE

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PUERTO RICO

SHEET TITLE:
SITE PLAN

REVISIONS:
AS-BUILT

SUBMITTAL:
03/13/01 GENERAL REVISION

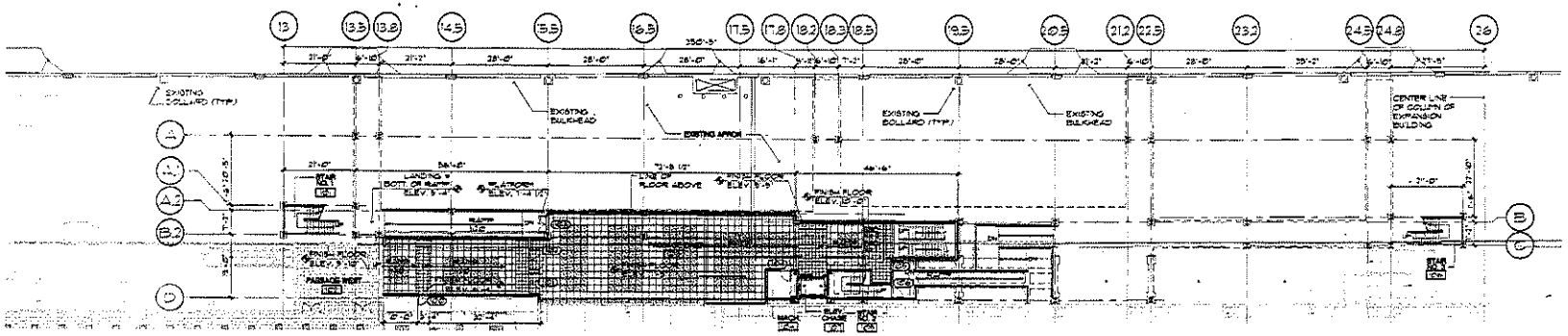
SCALE:
1" = 50'-0"

DATE:

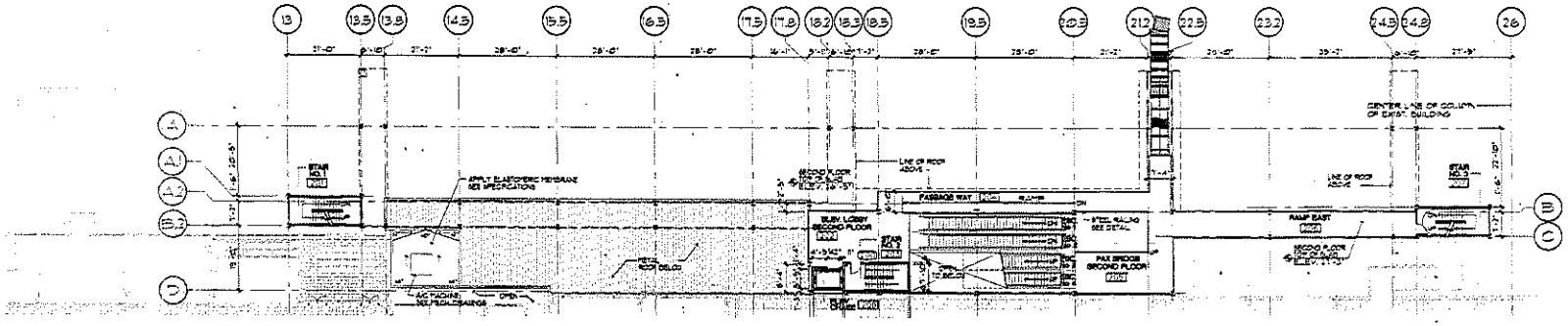
PROJECT No:
00-119

DRAWN BY: CHECKED BY:

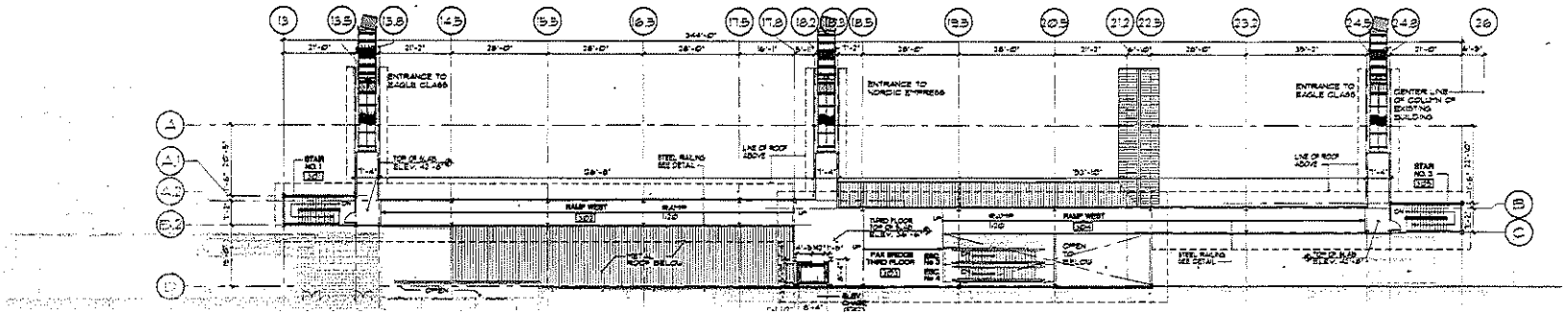
SHEET No:
A1.0A



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



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



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

→ STAIR OR DOOR EXIT CAPACITY

- (A) ASSEMBLY AREAS/WAITING: 15 SF/ PERSON
- (B) BAGGAGE CLAIM: 20 SF/ PERSON
- (C) CONCOURSE: 100 SF/ PERSON
- (M) MERCANTILE (RETAIL): 30 SF/ PERSON
- (O) BUSINESS (OFFICE) USE: = 100 SF/ PERSON
- (S) STORAGE USE: = 300 SF/ PERSON

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SHEET TITLE: FIRST SAFETY PLAN

REVISIONS: AS-BUILT

SUBMITTAL: 02/13/01 GENERAL REVISION

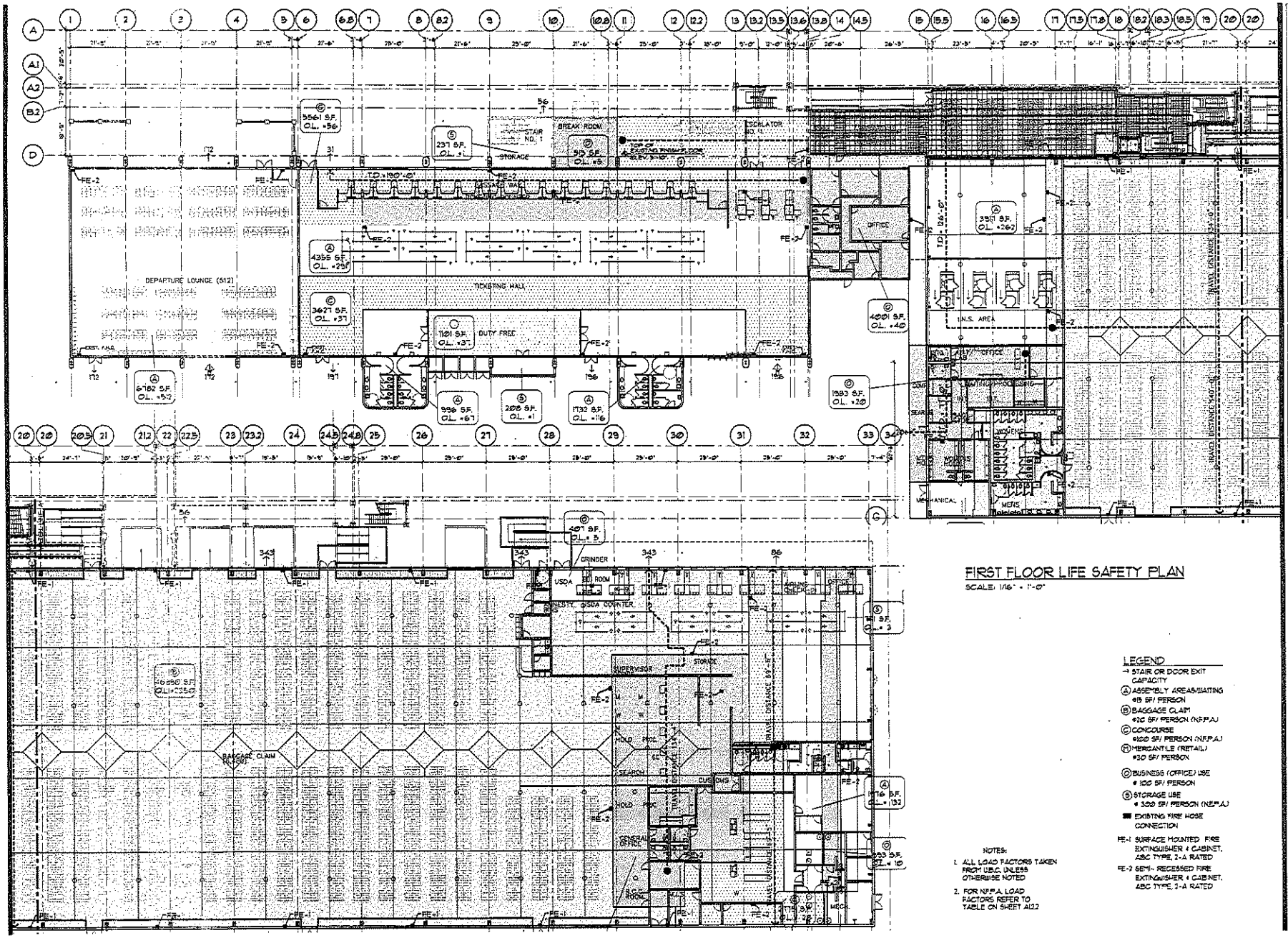
SCALE: 1/8" = 1'-0"

DATE:

PROJECT No: 00-119

DRAWN BY: CHECKED BY:

SHEET No: A1.1



FIRST FLOOR LIFE SAFETY PLAN

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

LEGEND

- → STAIR OR DOOR EXIT CAPACITY
- (A) ASSEMBLY AREAS/WAITING @15 SF/ PERSON
- (B) BAGGAGE CLAIM @20 SF/ PERSON (N.F.P.A.)
- (C) CONCOURSE @100 SF/ PERSON (N.F.P.A.)
- (M) MERCANTILE (RETAIL) @30 SF/ PERSON
- (O) BUSINESS (OFFICE) USE @ 100 SF/ PERSON
- (S) STORAGE USE @ 300 SF/ PERSON (N.F.P.A.)
- EXISTING FIRE HOSE CONNECTION
- FE-1 SURFACE MOUNTED FIRE EXTINGUISHER & CABINET, ABC TYPE, 2-A RATED
- FE-2 SEMI- RECESSED FIRE EXTINGUISHER & CABINET, ABC TYPE, 2-A RATED

NOTES:

1. ALL LOAD FACTORS TAKEN FROM U.B.C. UNLESS OTHERWISE NOTED
2. FOR N.F.P.A. LOAD FACTORS REFER TO TABLE ON SHEET A1.2.2

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PHONE (305) 441-3003 FAX (305) 441-3011 e-mail: bea@beafl.com http://www.beafl.com

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PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

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SHEET TITLE: FIRST FLOOR LIFE SAFETY PLAN

REVISIONS: AS-BUILT

SUBMITTAL: 30% 08/28/00

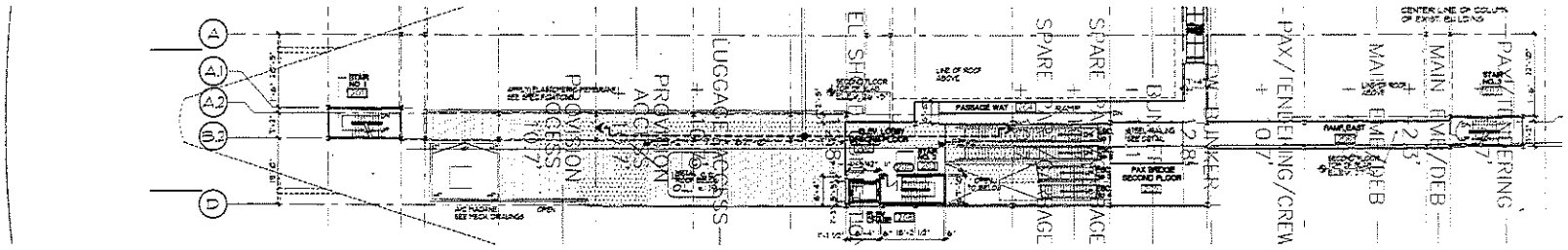
SCALE: 1/16" = 1'-0"

DATE: 09/20/00

PROJECT No: 00-0852

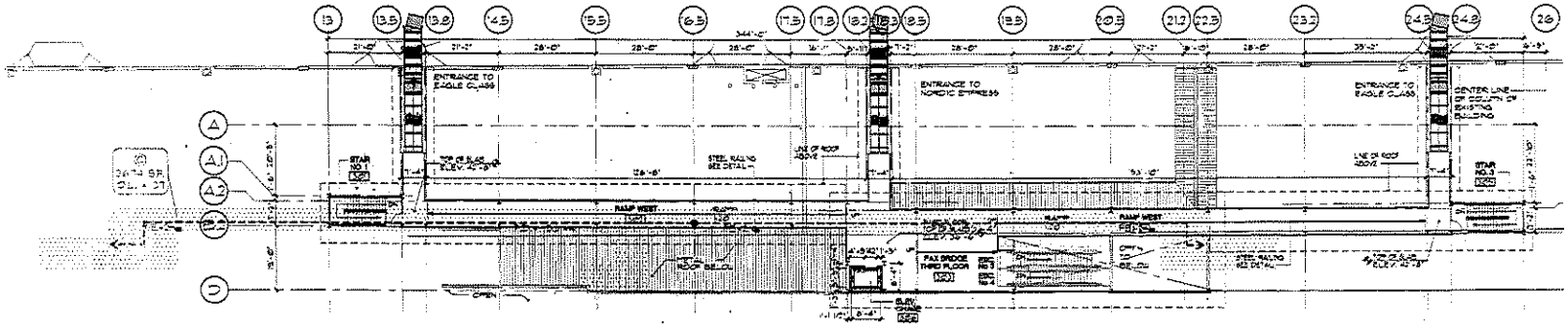
DRAWN BY: CHECKED BY:

SHEET No: A1.2.1



SECOND FLOOR LIFE SAFETY PLAN

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



THIRD FLOOR LIFE SAFETY PLAN

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

NFPA 101 Life Safety Code Handbook® 1997

Table A-5-3.1.2 represents a recapitulation of the occupant load factors specified by the individual occupancies of Chapters 8 through 19.

Table A-5-3.1.2 Occupant Load Factors

Use	Sq Ft	Sq M
Assembly		
Less concentrated use without fixed seating	15 net	1.4
Concentrated use without fixed seating	7 net	0.65
Waiting space	3 net	0.28
Library - stack area	100 gross	9.3
Library - reading area	50 net	4.6
Mercantile		
Street floor and sales basement	30 gross	2.8
Multiple street floor - each	40 gross	3.7
Other floors	60 gross	5.6
Storage, shipping	300 gross	27.9
Malls	See 24-1.7.1(2)-1.7	
Educational		
Classroom area	20 net	1.9
Shops and other vocational areas	50 net	4.6
Day-care centers	35 net	3.3
Business (offices), educational	100 gross	9.3
Hotel and apartment	200 gross	18.6
Health-care		
Sleeping departments	120 gross	11.1
Inpatient treatment departments	240 gross	22.3
Detention and correctional	120 gross	11.1

These figures, based on actual or typical buildings, represent the average maximum density of occupancy.

Table A-5-3.2.3 Airport Terminal Occupant Load Factors

Airport Terminal	Sq Ft (Gross)	Sq M (Gross)
Concourse	100	9.3
Waiting areas	15	1.4
Baggage claim	20	1.9
Baggage handling	300	27.9
Other	(See Table A-5-3.1.2)	

LEGEND

- STAIR OR DOOR EXIT CAPACITY
- (A) ASSEMBLY AREAS/SEATING 15 SF/ PERSON
- (B) BAGGAGE CLAIM 470 SF/ PERSON (NFPA)
- (C) CONCOURSE 100 SF/ PERSON (NFPA)
- (M) MERCANTILE (RETAIL) 30 SF/ PERSON
- (O) BUSINESS (OFFICE) USE 100 SF/ PERSON
- (S) STORAGE USE 300 SF/ PERSON (NFPA)
- EXISTING FIRE HOSE CONNECTION
- FE-1 SURFACE MOUNTED FIRE EXTINGUISHER & CABINET. ABC TYPE 3-A RATED
- FE-2 SEMI-RECESSED FIRE EXTINGUISHER & CABINET. ABC TYPE 3-A RATED

NOTES:

1. ALL LOAD FACTORS TAKEN FROM U.B.C. UNLESS OTHERWISE NOTED
2. FOR NFPA LOAD FACTORS REFER TO TABLE ON THIS SHEET

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E-mail: bea@bea-inc.com http://www.bea-inc.com
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SAN JUAN
PUERTO RICO

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SHEET TITLE
LIFE SAFETY PLANS

REVISIONS:
AS-BUILT

SUBMITTAL:
30% 06/28/00

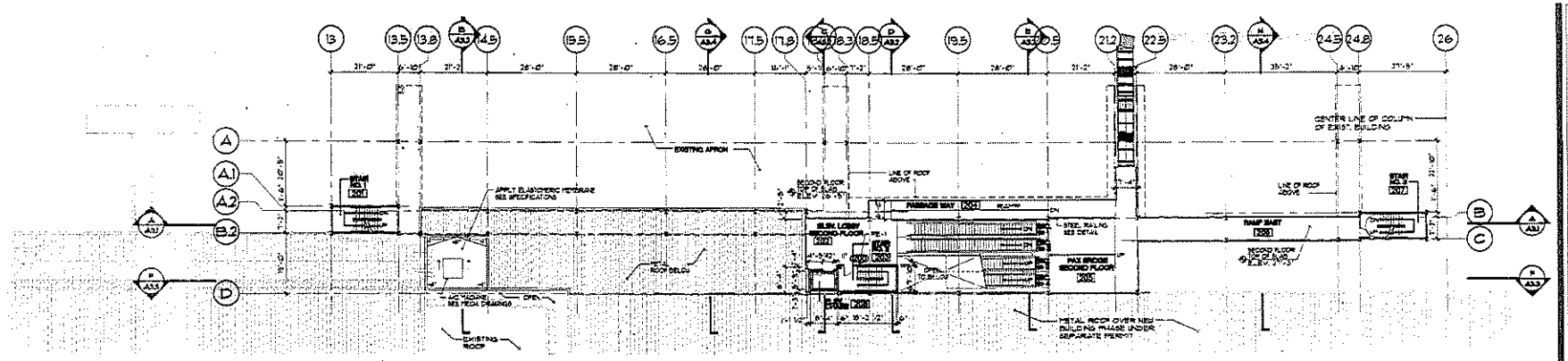
SCALE: 1/16" = 1'-0"

DATE: 09/20/00

PROJECT No: 00-0652

DRAWN BY: CHECKED BY:

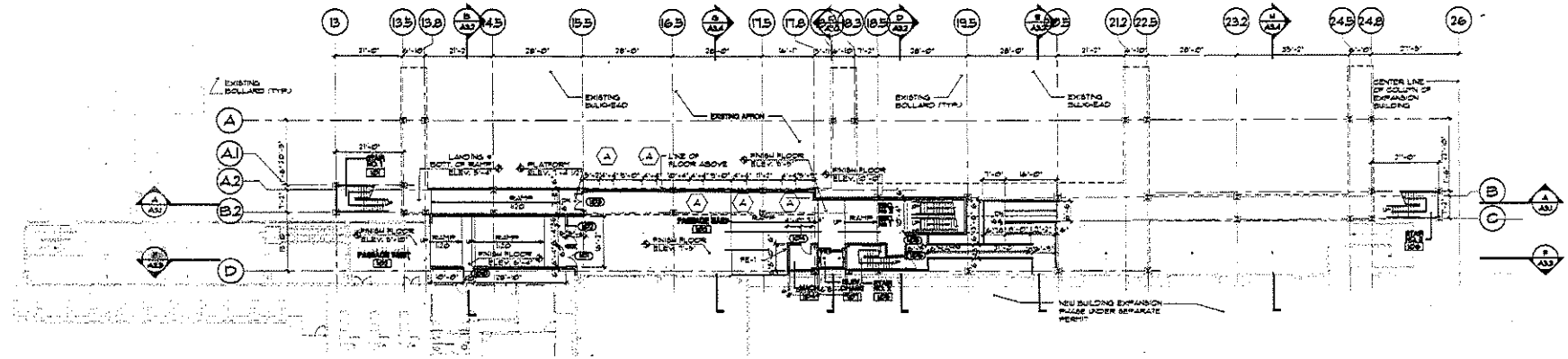
SHEET No:
A1.2.2



SECOND FLOOR PLAN

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

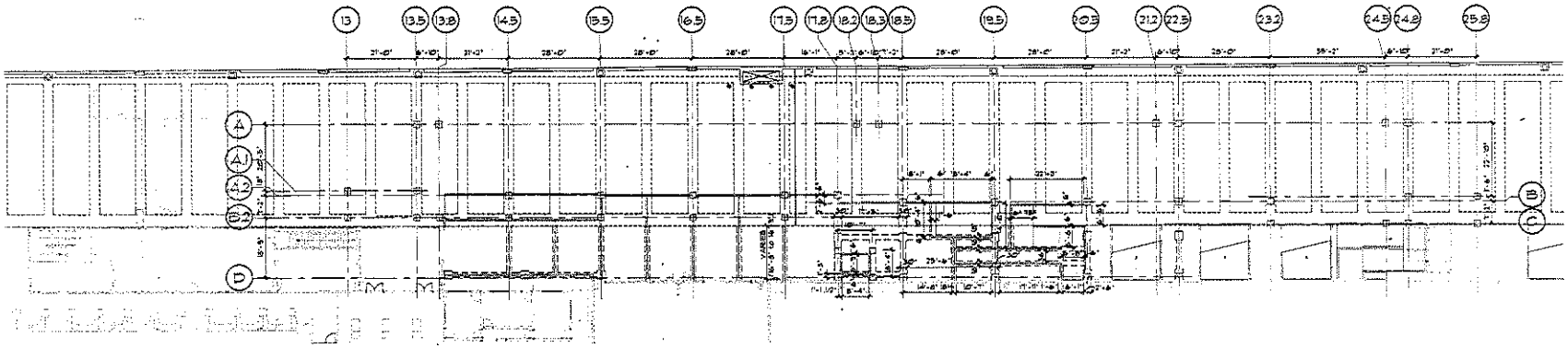
FIRE EXTINGUISHER NOTE:
FE-1 SURFACE MOUNTED FIRE EXTINGUISHER & CABINET ABC TYPE 2-A RATED



FIRST FLOOR PLAN

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

FIRE EXTINGUISHER NOTE:
FE-1 SURFACE MOUNTED FIRE EXTINGUISHER & CABINET ABC TYPE 2-A RATED



FOOTING FIRST FLOOR PLAN (AXIS)

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

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SHEET TITLE:
FIRST AND SECOND FLOOR PLAN

AS-BUILT

REVISIONS:
1- AXIS REV. MAY/28/2001
2- GEN. REV. JUNE/06/2001
3- GEN. REV. JUNE/27/2001
4- GEN. REV. JULY/19/2001
5- FE-1 LOCATIONS 9/06/01

SUBMITTAL:
30% 08/26/00
75% 10/20/00
90% 12/01/00

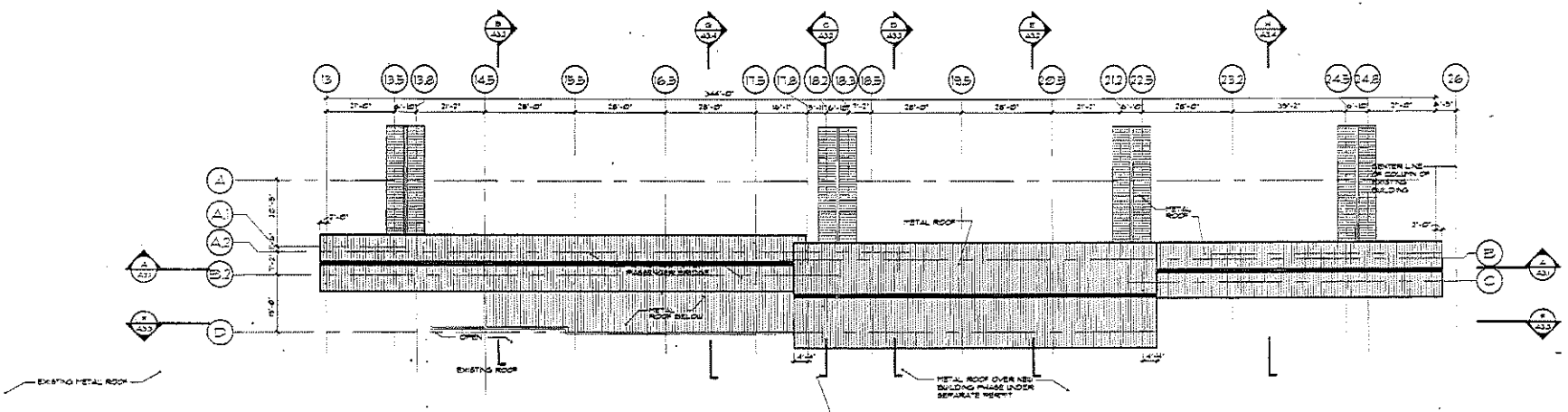
SCALE: 1/16" = 1'-0"

DATE: 05/28/01

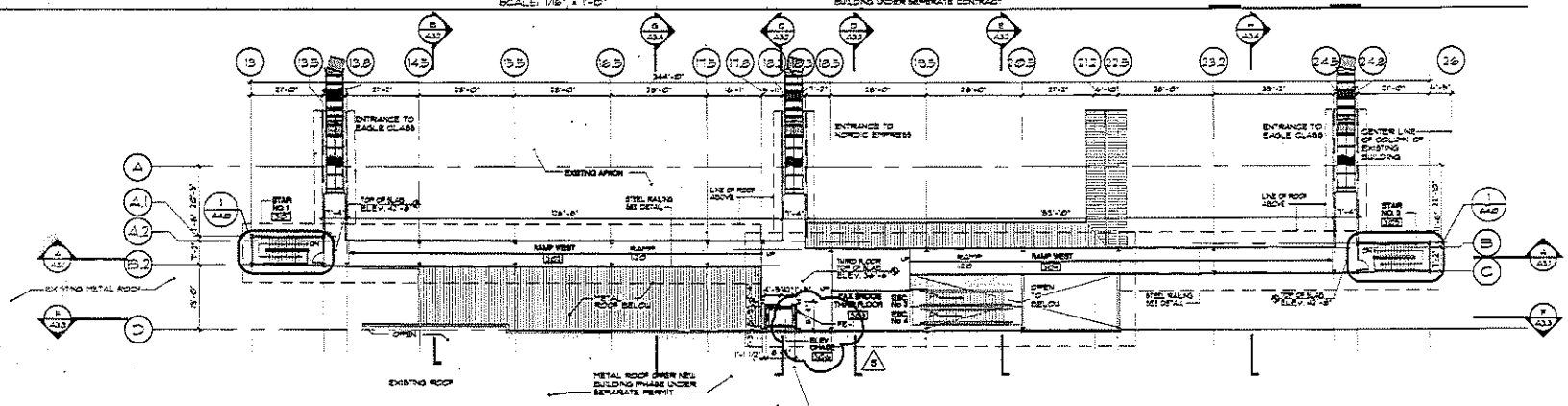
PROJECT NO. 00-0832

DRAWN BY: CHECKED BY:

SHEET No: A2.0

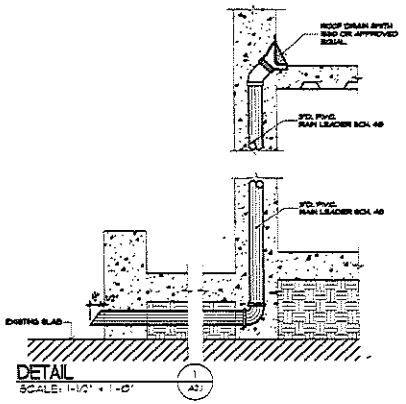


ROOF PLAN
SCALE: 1/16" = 1'-0"



THIRD FLOOR PLAN
SCALE: 1/16" = 1'-0"

FIRE EXTINGUISHER NOTE:
RE-1 SURFACE MOUNTED FIRE EXTINGUISHER & CABINET ABC TYPE, 2-A RATED



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

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SHEET TITLE:
THIRD FLOOR AND ROOF PLAN

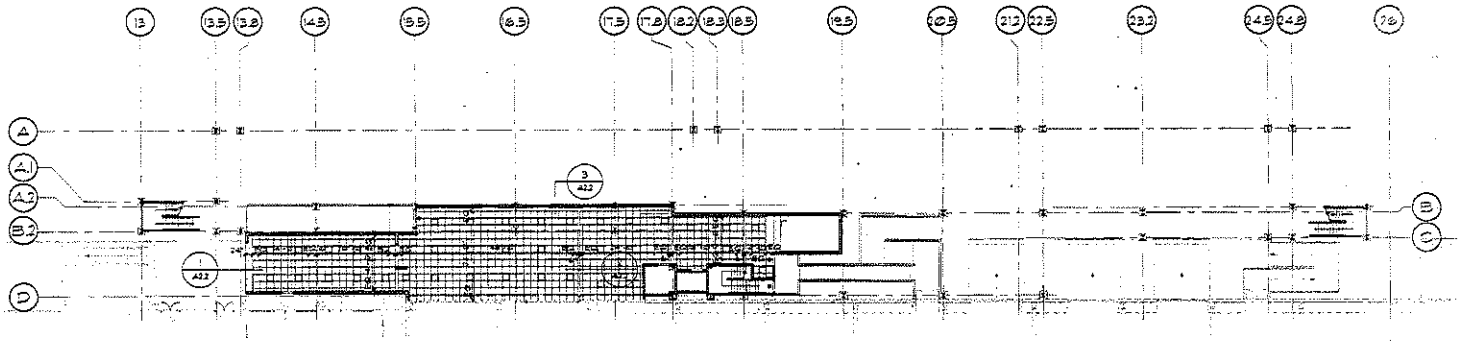
AS-BUILT

REVISIONS:
1-LAX18 REV. MAY/28/2001
2-GEN. REV. JUNE/06/2001
3-GEN. REV. JUNE/27/2001
4-GEN. REV. JULY/19/2001
5- FE-1 LOCATIONS 9/06/01

SUBMITTAL:
30% 09/28/00
75% 10/20/00
90% 12/01/00

SCALE: 1/16" = 1'-0"
DATE: 05/28/01
PROJECT NO: 00-0852
DRAWN BY: CHECKED BY:

SHEET No: A2.1

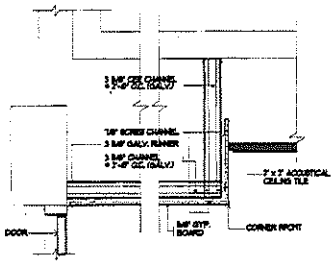


FIRST FLOOR REFLECTED CEILING PLAN

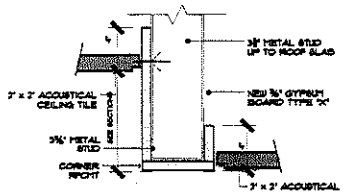
SCALE: 1/16" = 1'-0"

LEGEND:

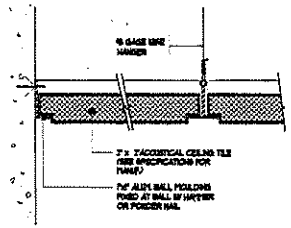
- ☐ LIGHTING FIXTURES, SEE ELECTICAL DRAWINGS
- • EXIT SIGN, SEE ELECTICAL DRAWINGS



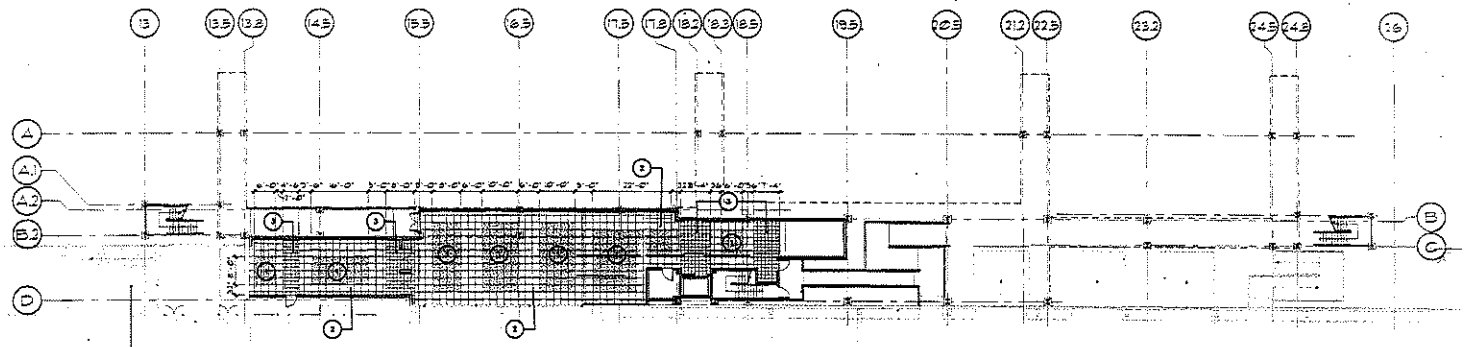
DETAIL 1/A22
SCALE: 1-1/2" = 1'-0"



DETAIL 2/A22
SCALE: 3" = 1'-0"



DETAIL 3/A22
SCALE: 1-1/2" = 1'-0"



FOR FLOOR PATTERN LAYOUT
SEE SHEET A1J RENOVATION BUILDING

FIRST FLOOR PATTERN LAYOUT

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

FLOOR PATTERN LEGEND:

1. 12" X 12" 1/4" FIANDRE PORCELAIN TILE (COLOR TO BE MALAGA MATE FINISH)
2. 12" X 12" 1/4" FIANDRE PORCELAIN TILE (COLOR TO BE BARDIGLIO MATE FINISH)
3. 12" X 12" 1/4" FIANDRE PORCELAIN TILE (COLOR TO BE BEOLA MATE FINISH)

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SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN

REVISIONS:
AS-BUILT

SUBMITTAL:

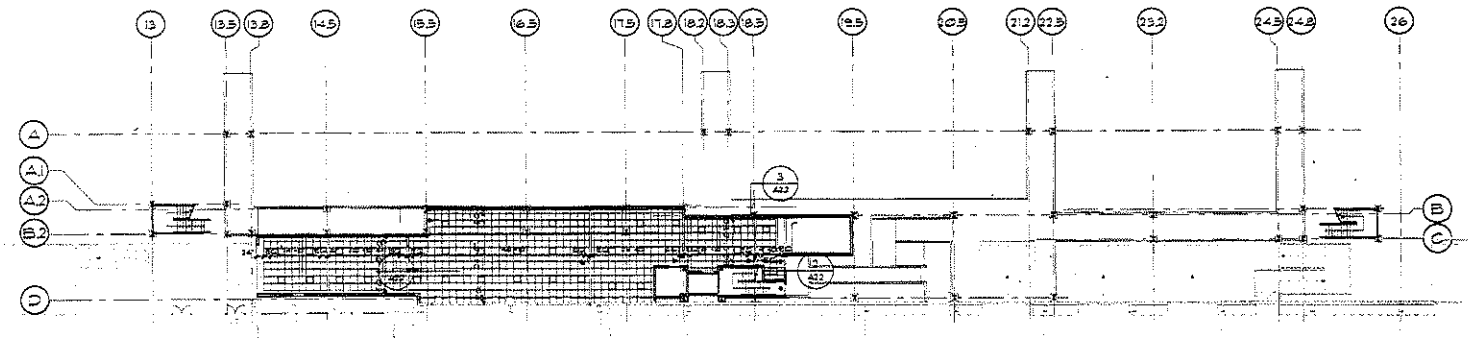
SCALE: 1/16" = 1'-0"

DATE: 05/19/01

PROJECT No: 00-0652

DRAWN BY: CHECKED BY:

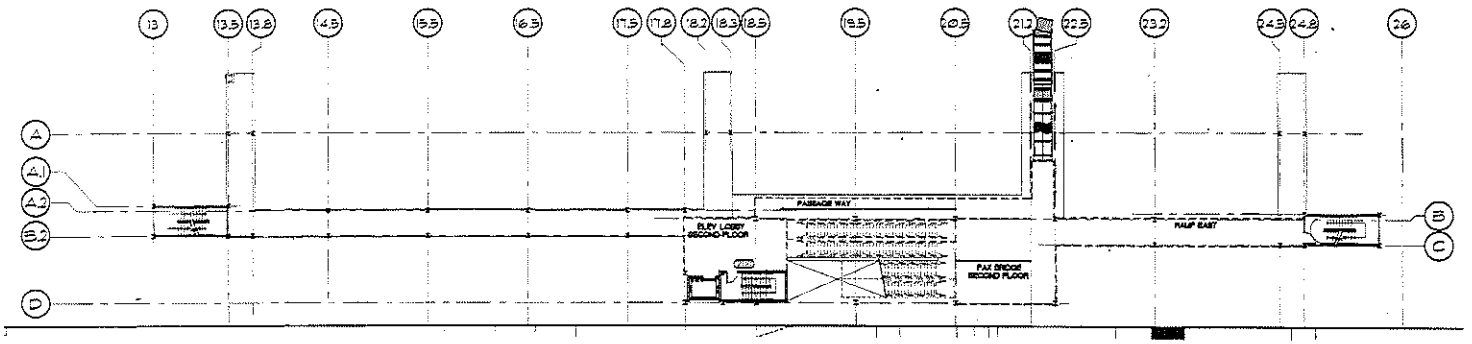
SHEET No
A2.2



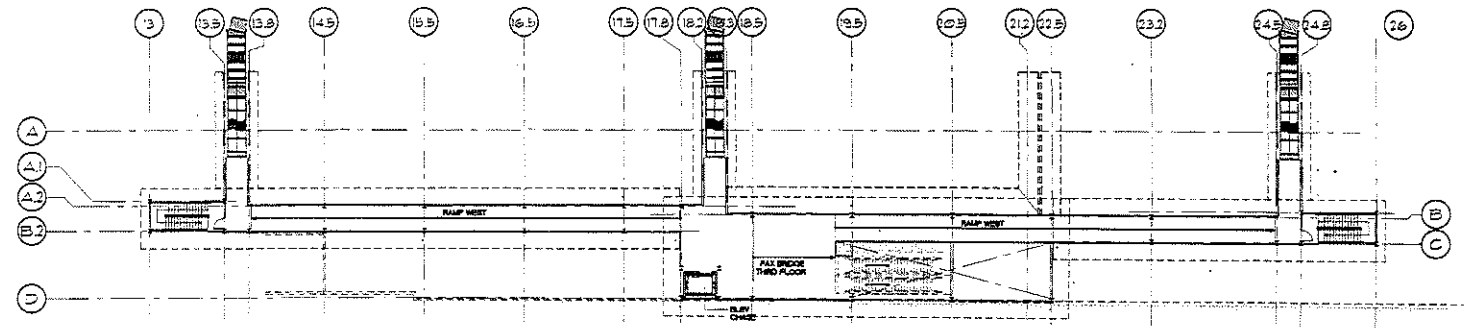
LEGEND:

- 2'X2' LIGHTING FIXTURES, SEE ELECTICAL DRAWINGS
- 1'X4' LIGHTING FIXTURES, SEE ELECTICAL DRAWINGS
- EXIT SIGN, SEE ELECTICAL DRAWINGS

FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"



SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"



THIRD FLOOR REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
REFLECTED CEILING PLANS

REVISIONS:
AS-BUILT

SUBMITTAL

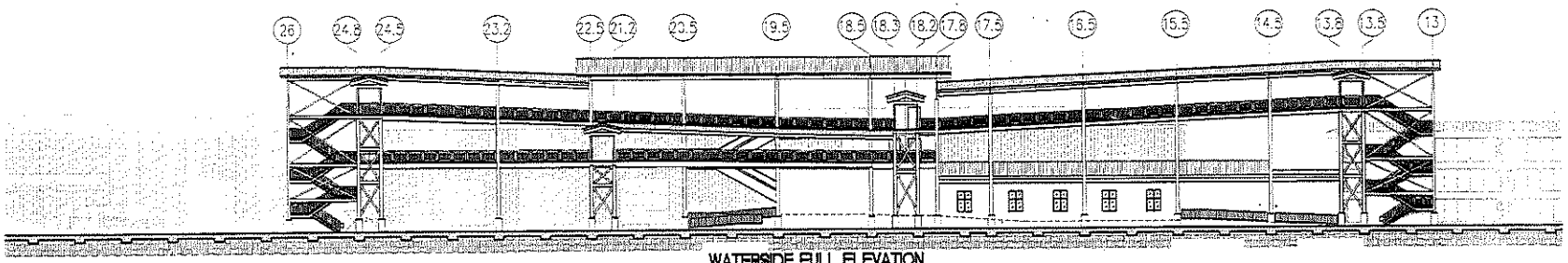
SCALE: 1/16" = 1'-0"

DATE: 09/06/01

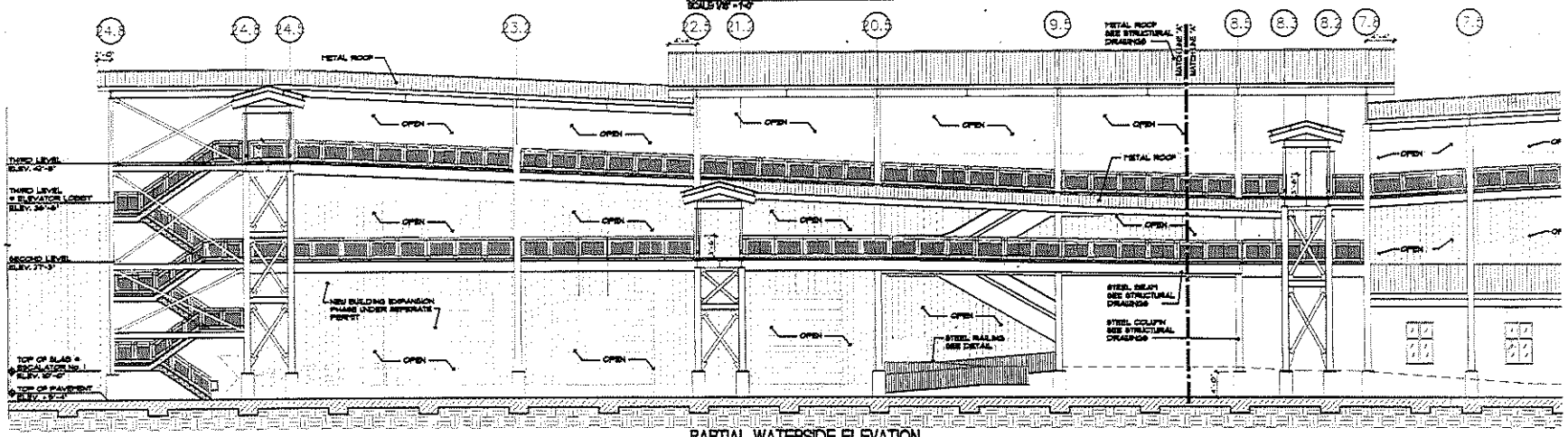
PROJECT No: 00-0852

DRAWN BY: CHECKED BY:

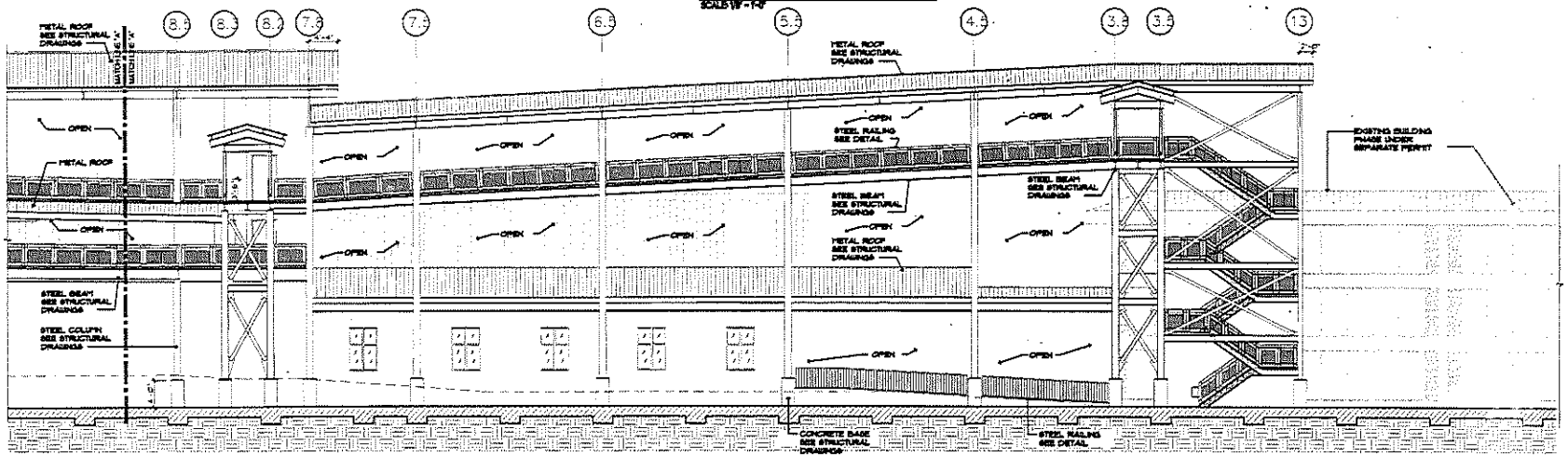
SHEET No:
A2.3



WATERSIDE FULL ELEVATION
SCALE: 1/8" = 1'-0"



PARTIAL WATERSIDE ELEVATION
SCALE: 1/8" = 1'-0"



PARTIAL WATERSIDE ELEVATION
SCALE: 1/8" = 1'-0"

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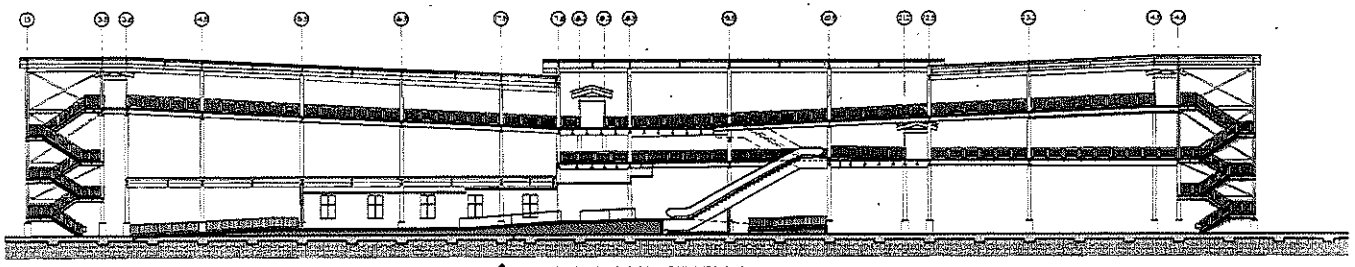
SHEET TITLE:
SEASIDE ELEVATION
AS-BUILT

REVISIONS:
1-GEN. REV. JUNE/06/2001
2-GEN. REV. JUNE/27/2001
3-GEN. REV. JULY/19/2001

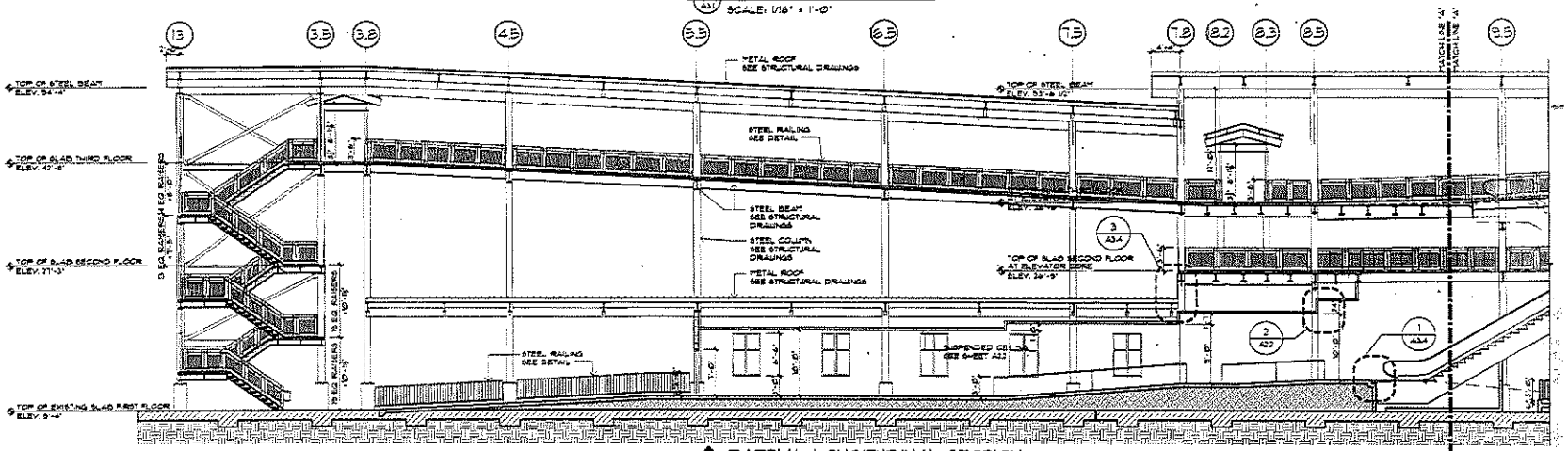
SUBMITTAL:
30% 06/26/00
75% 10/20/00
90% 12/01/00

SCALE: 1/8" = 1'-0"
DATE: 03/07/01
PROJECT NO: 00-0652
DRAWN BY: CHECKED BY:

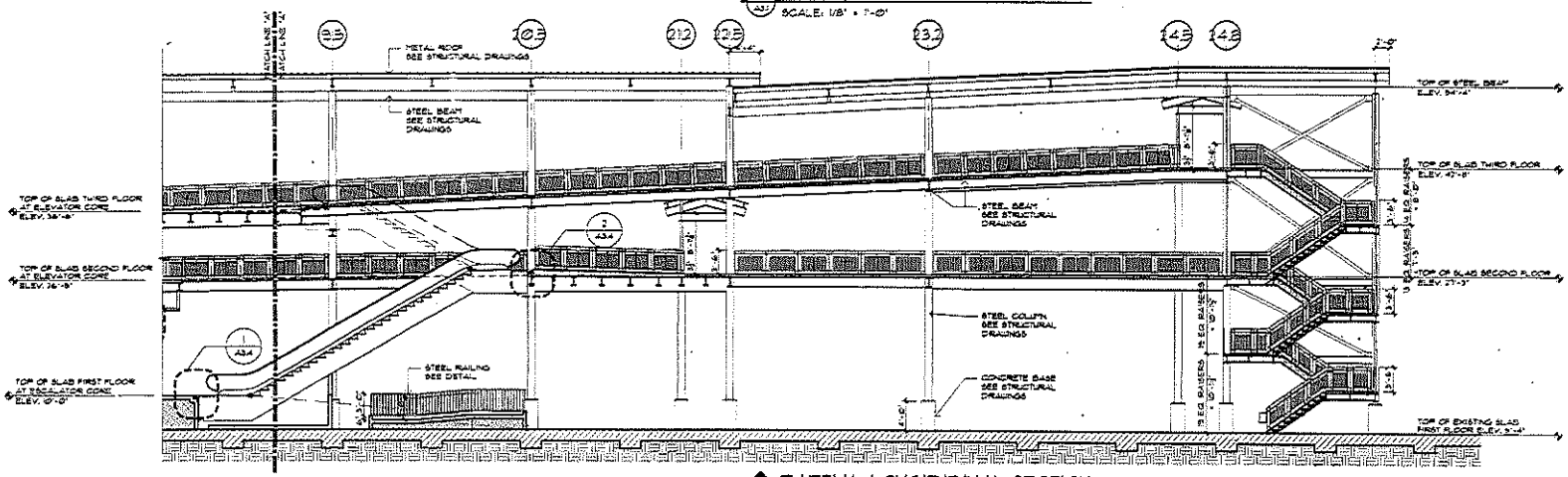
SHEET No: A3.0



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



PARTIAL LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"



PARTIAL LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"

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PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

SHEET TITLE:
LONGITUDINAL SECTION

REVISIONS:
1-GEN. REV. JUNE/06/2001
2- GEN. REV. JUNE/27/2001
3-GEN. INF. JULY/19/2001

AS-BUILT

SUBMITTAL:
30% 06/26/00

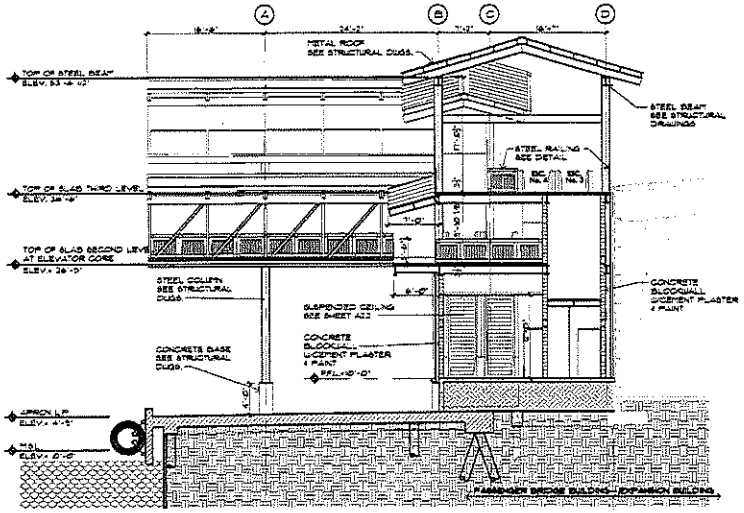
SCALE: 1/8" = 1'-0"

DATE: 05/26/01

PROJECT No: 00-0652

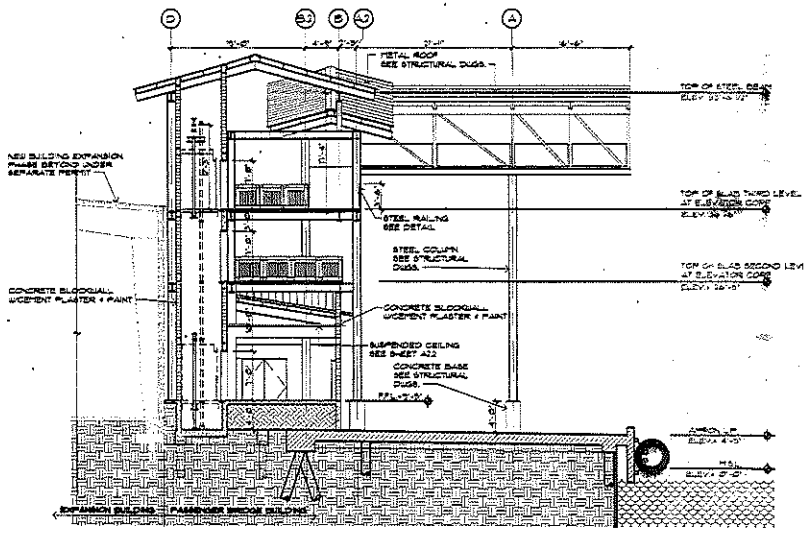
DRAWN BY: CHECKED BY:

SHEET No: A3.1



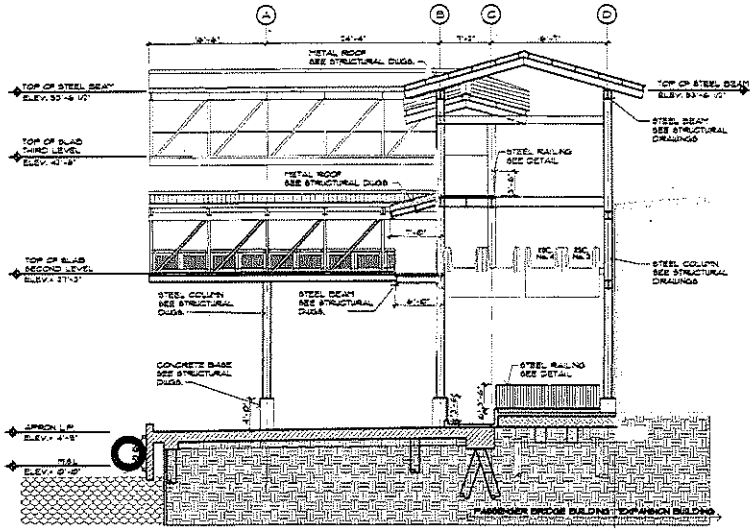
SECTION-D

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



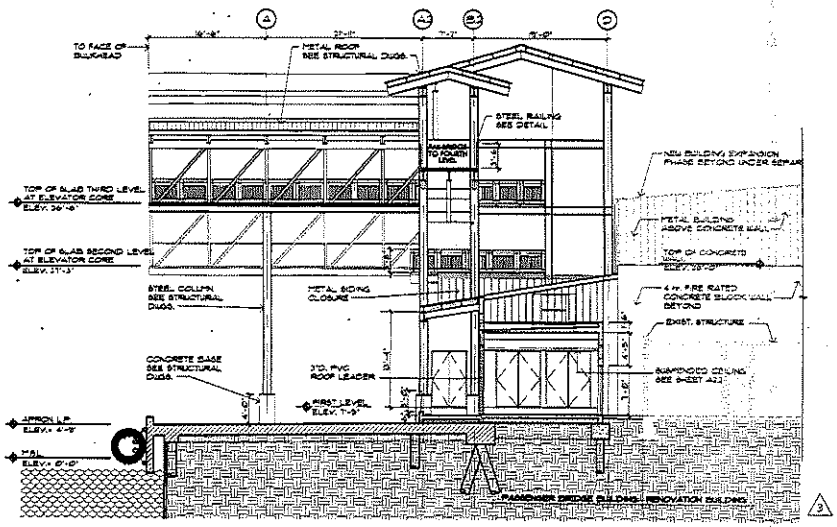
SECTION-C

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



SECTION-E

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



SECTION-B

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

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RAY ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

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SHEET TITLE:
TRANSVERSAL SECTIONS

REVISIONS:
1-GEN. REV. JUNE/6/2001
2-GEN. REV. JUNE/27/2001
3-GEN. REV. JULY/13/2001

AS-BUILT

SUBMITTAL:

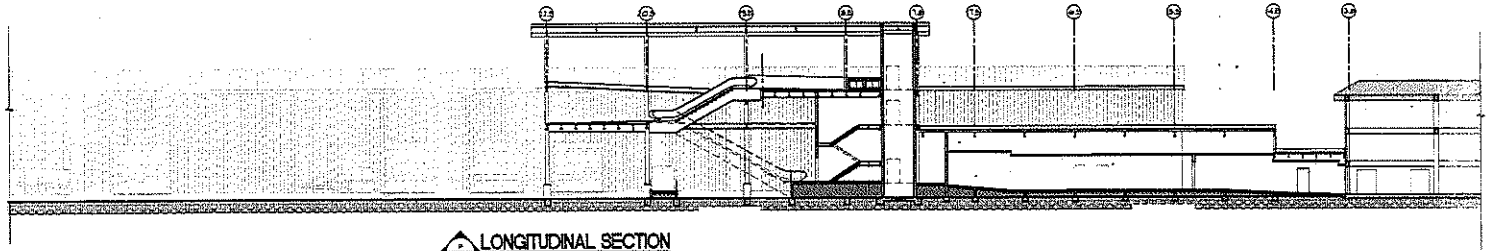
SCALE: 1/8" = 1'-0"

DATE: 02/19/01

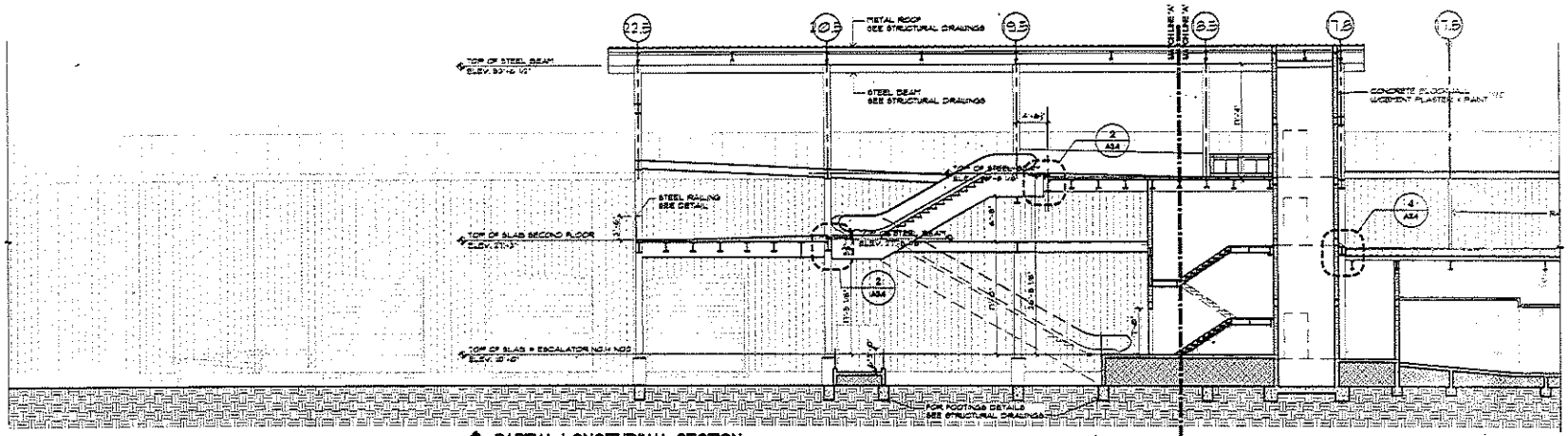
PROJECT No: 00-0852

DRAWN BY: CHECKED BY:

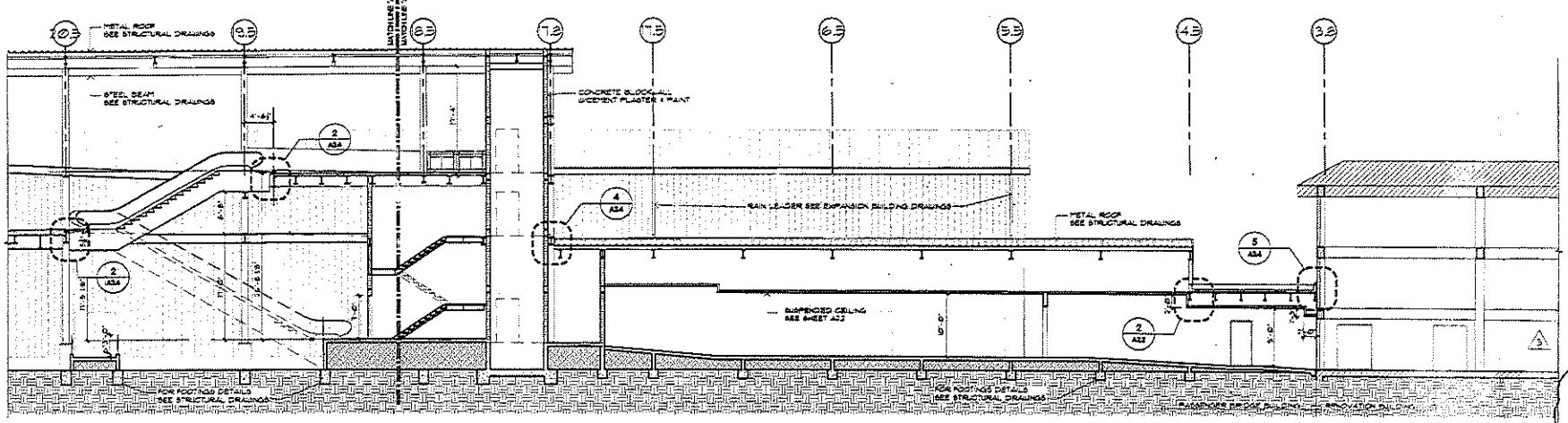
SHEET No: A3.2



A3.3 LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"



A3.3 PARTIAL LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"



A3.3 PARTIAL LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"

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ARCHITECTS
ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

SAN JUAN
PUERTO RICO

SHEET TITLE
LANDSIDE ELEVATION

REVISIONS:
1-CON. REV. JUNE/08/2001
2-CON. REV. JUNE/27/2001
3-CON. IMP. JULY/10/2001

AS-BUILT

SUBMITTAL:
30% 06/26/00
75% 10/20/00
90% 12/01/00

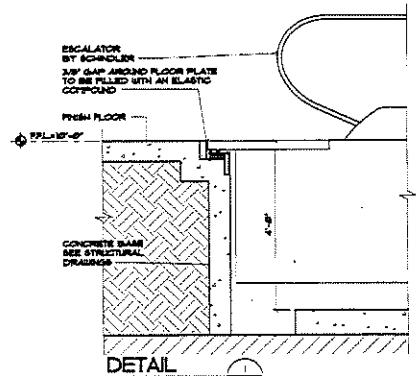
SCALE: 1/8" = 1'-0"

DATE: 02/19/01

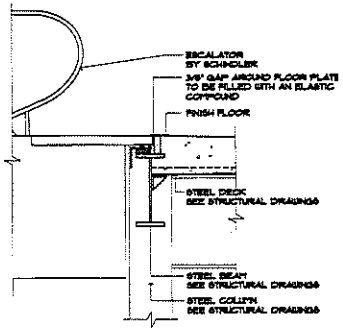
PROJECT No: 00-0552

DRAWN BY: CHECKED BY:

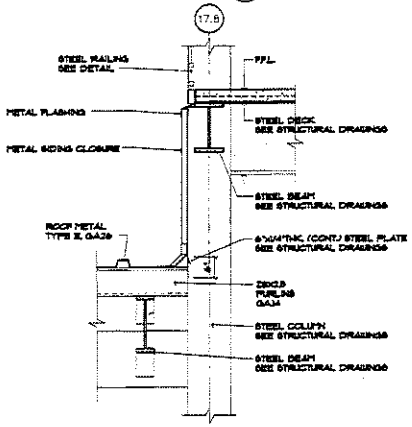
SHEET No: A3.3



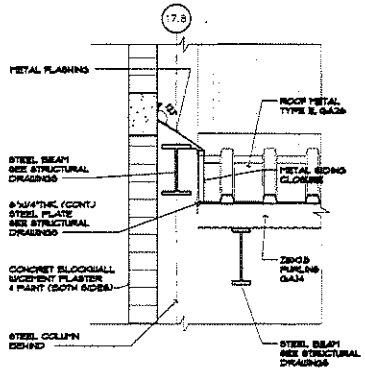
DETAIL 1 A3.4
SCALE: 3/4" = 1'-0"



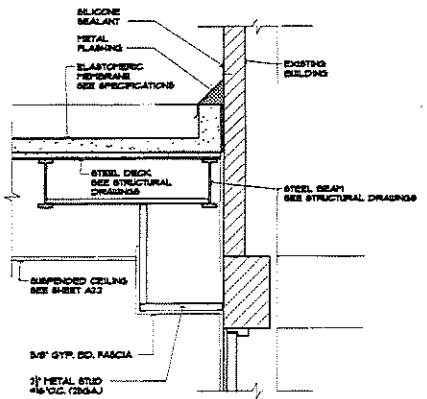
DETAIL 2 A3.4
SCALE: 3/4" = 1'-0"



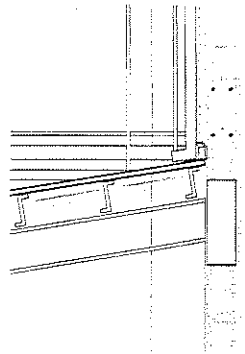
DETAIL 3 A3.4
SCALE: 3/4" = 1'-0"



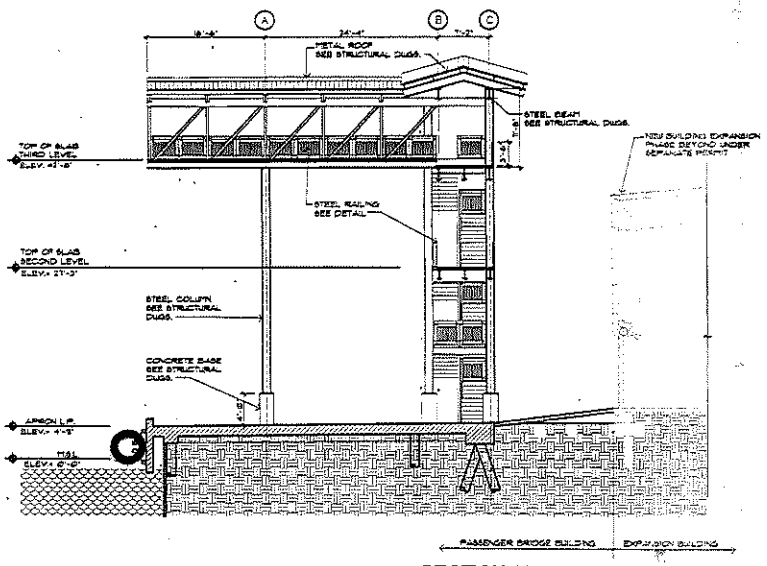
DETAIL 4 A3.4
SCALE: 3/4" = 1'-0"



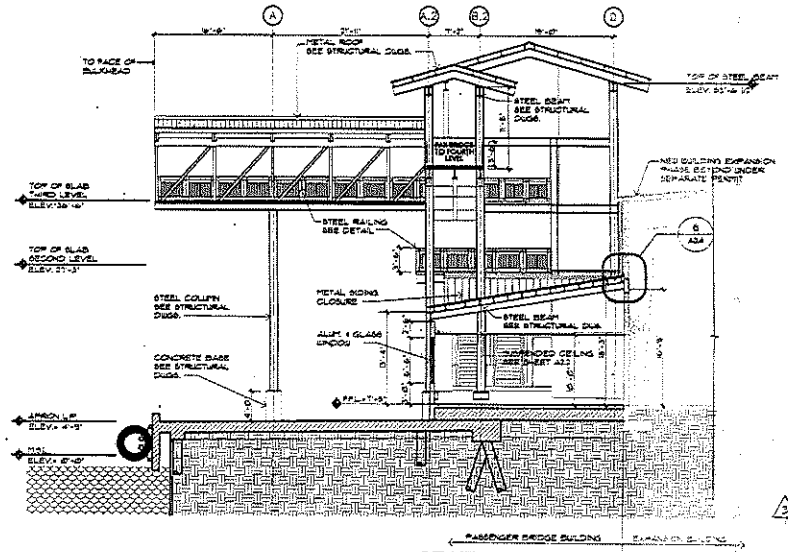
DETAIL 5 A3.4
SCALE: 3/4" = 1'-0"



DETAIL 6 A3.4
SCALE: 3/4" = 1'-0"



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



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

3

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ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

SAN JUAN
PUERTO RICO

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SHEET TITLE:
TRANSVERSAL SECTIONS

REVISIONS:
1-GEN. REV. JUNE/06/2001
2-GEN. REV. JUNE/27/2001
3-GEN. REV. JULY/19/2001

AS-BUILT

SUBMITTAL:

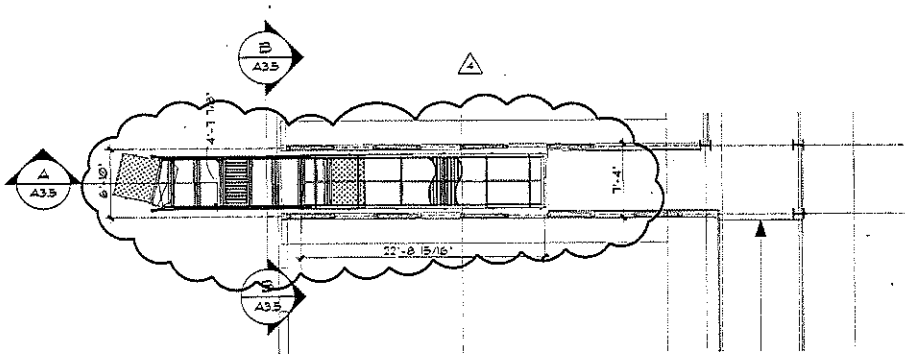
SCALE: 1/8" = 1'-0"

DATE: 02/19/01

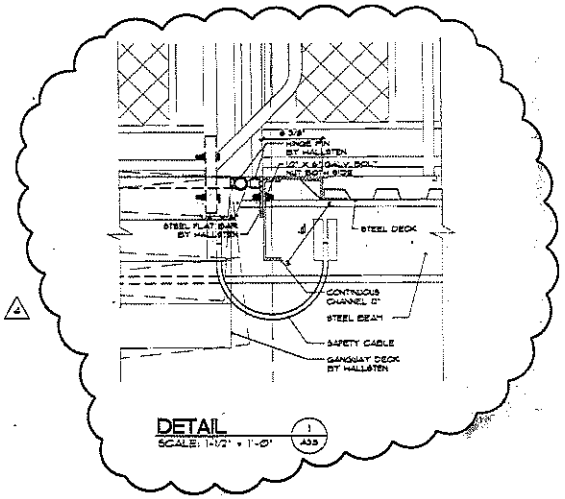
PROJECT No: 00-0852

DRAWN BY: CHECKED BY:

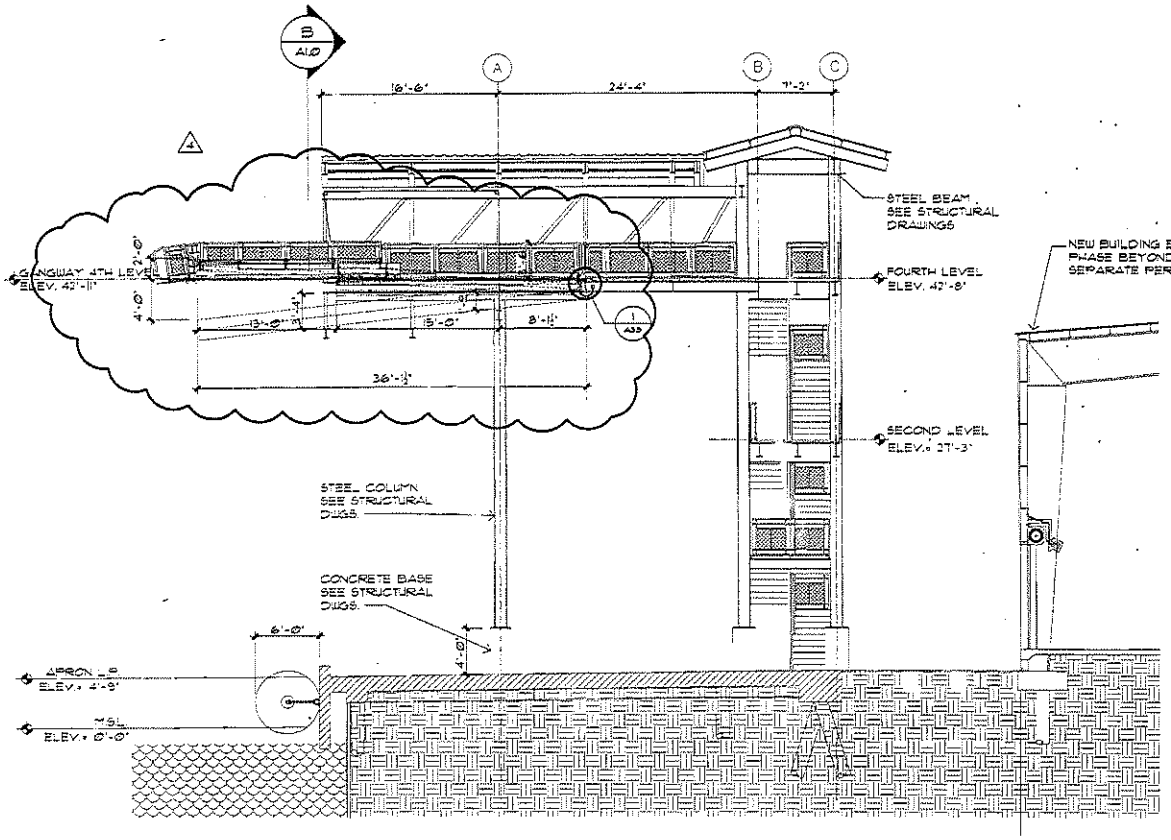
SHEET No: A3.4



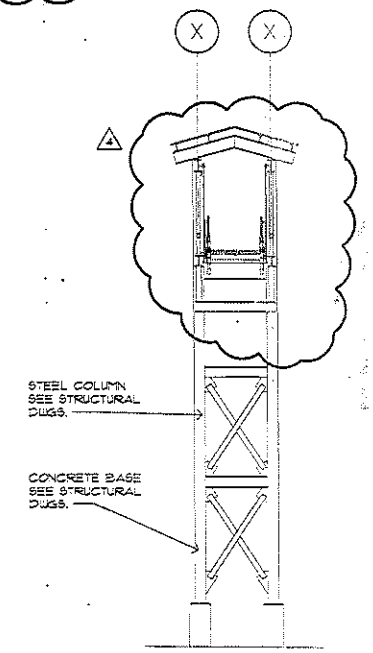
PARTIAL PLAN
SCALE: 3/16" = 1'-0"



DETAIL
SCALE: 1-1/2" = 1'-0"
1 A3.5



SECTION -A
SCALE: 3/16" = 1'-0"



SECTION -B
SCALE: 3/16" = 1'-0"

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STRUCTURAL
4317 PONCE DE LEON BLVD., SUITE 200 CORAL GABLES, FL 33146 LICENSE No. AA0001104 & ER0001705
PHONE (305) 441 9003 FAX (305) 441-2383 E-mail: bea@bea.com http://www.bea.com

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SAN JUAN
PUERTO RICO

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SHEET TITLE:
CONNECTOR BRIDGE

REVISIONS:

1	8/8/00	[illegible]	JPL	LA
2	8/8/00	[illegible]	JPL	LA
3	10/10/00	[illegible]	JPL	LA
4	8/8/00	[illegible]	JPL	LA

SUBMITTAL:
AS-BUILT

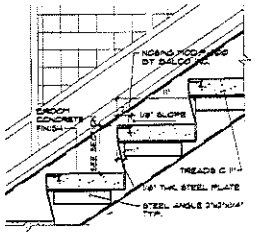
SCALE: 3/16" = 1'-0"

DATE: 07/13/01

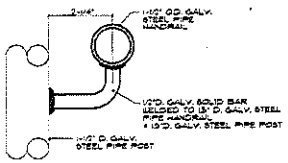
PROJECT No: 00-0852

DRAWN BY: CHECKED BY:

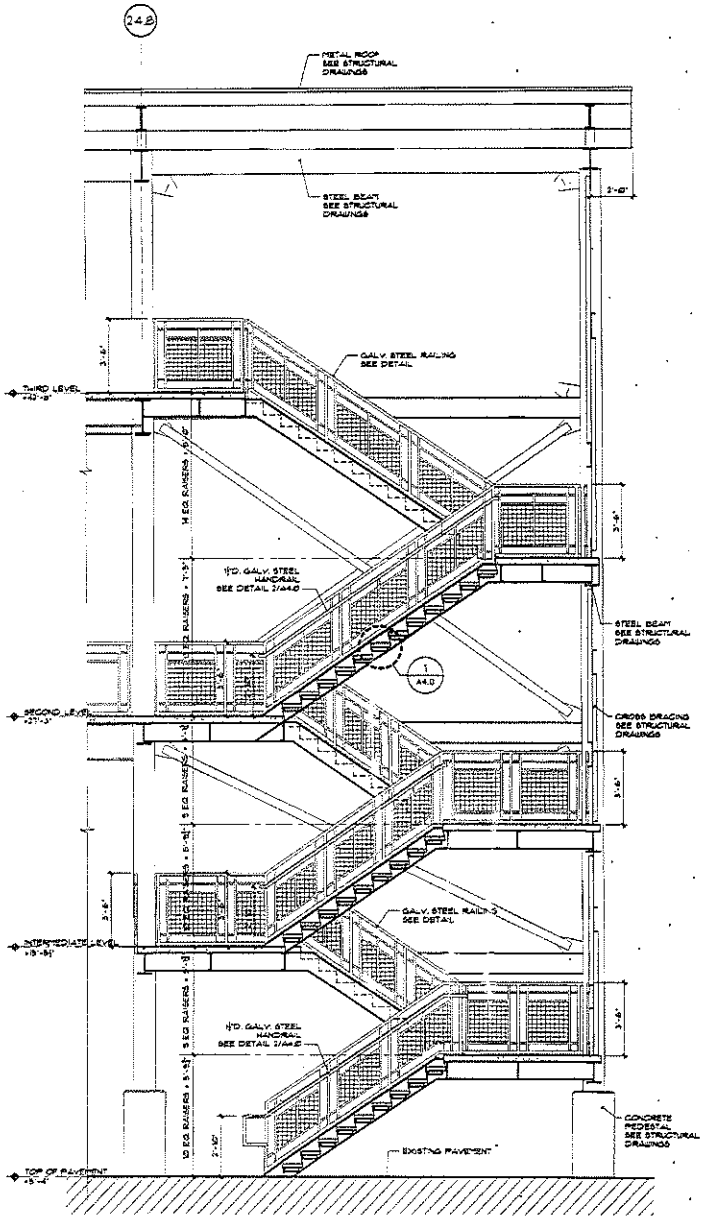
SHEET No:
A3.5



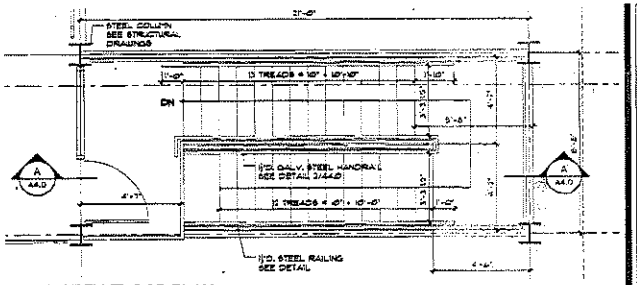
DETAIL 1 A4.0
SCALE: 1-1/2" = 1'-0"



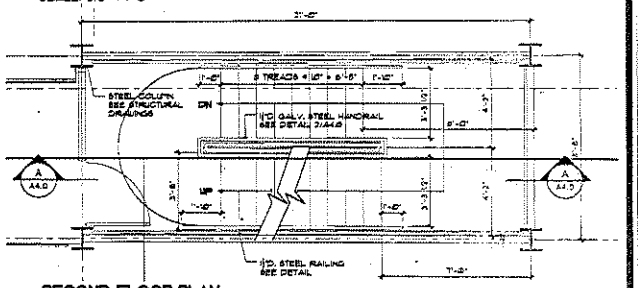
DETAIL 2 A4.0
SCALE: 6" = 1'-0"



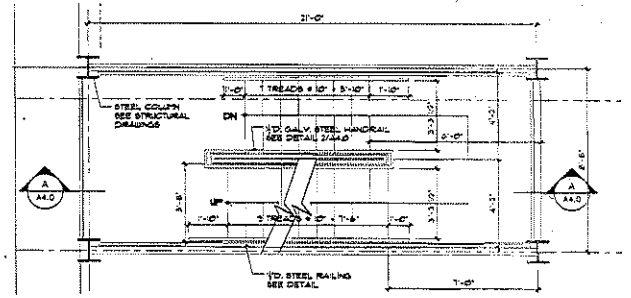
SECTION A-A
SCALE: 3/8" = 1'-0"
NOTE: STAIR NO.1 SIMILAR



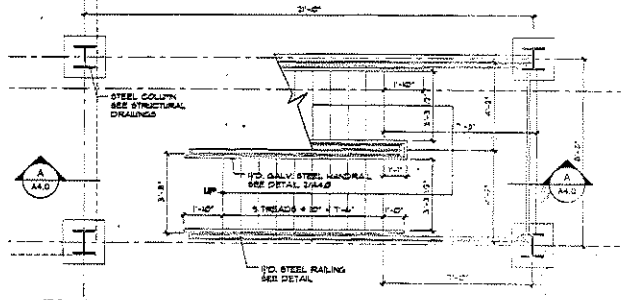
FOURTH FLOOR PLAN
SCALE: 3/8" = 1'-0"



SECOND FLOOR PLAN
SCALE: 3/8" = 1'-0"



INTERMEDIATE FIRST FLOOR PLAN
SCALE: 3/8" = 1'-0"



FIRST FLOOR PLAN
SCALE: 3/8" = 1'-0"

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RAY
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LAURENCE E. RAY
No. 4000
STATE OF MARYLAND

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

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PUERTO RICO

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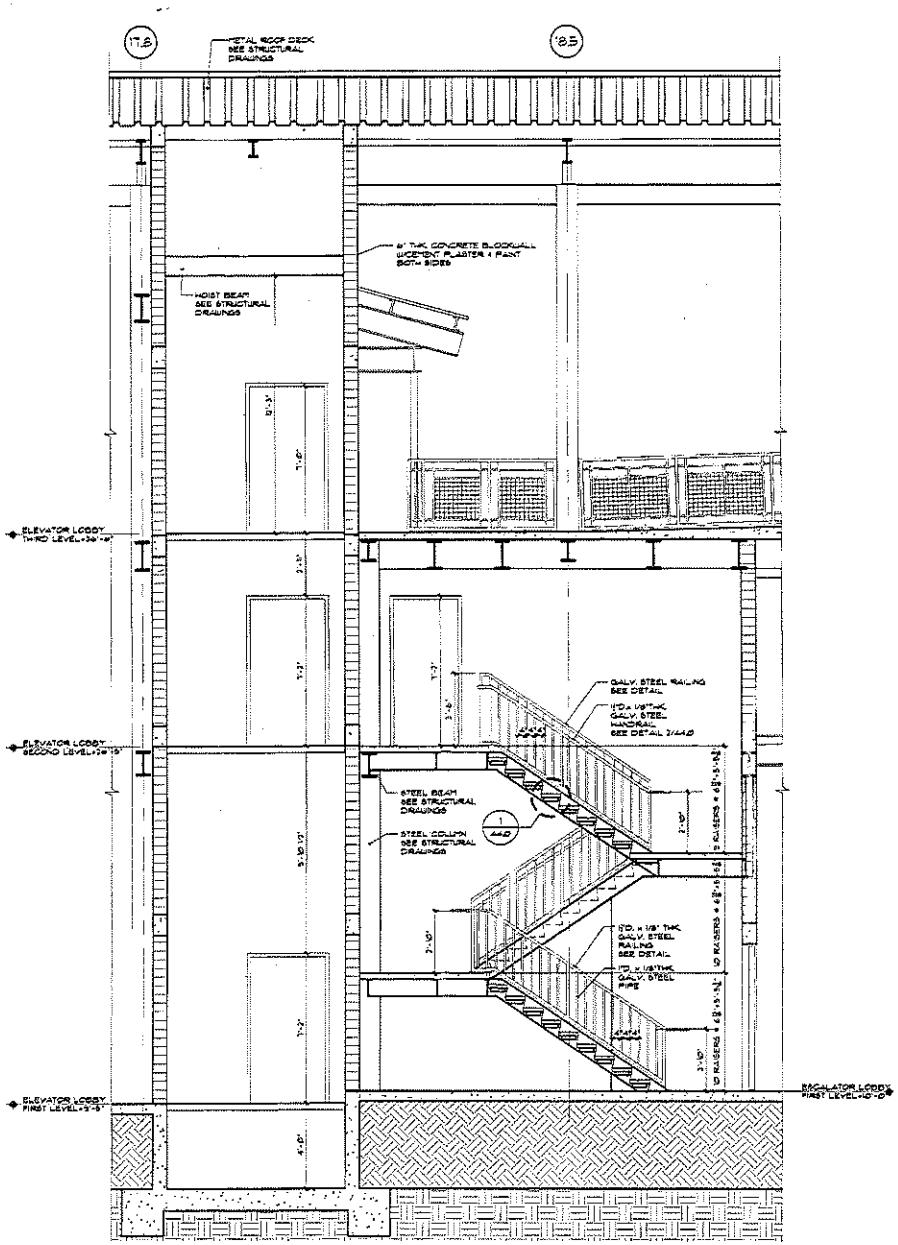
SHEET TITLE:
STAIR NO.1 & NO.3 ENLARGED PLAN, SECTION AND DETAILS

REVISIONS:
AS-BUILT

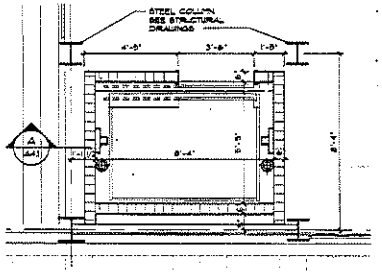
SUBMITTAL:

SCALE: AS SHOWN
DATE: 07/16/01
PROJECT No: 00-0852
DRAWN BY: CHECKED BY:

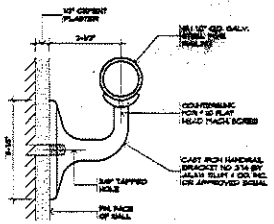
SHEET No:
A4.0



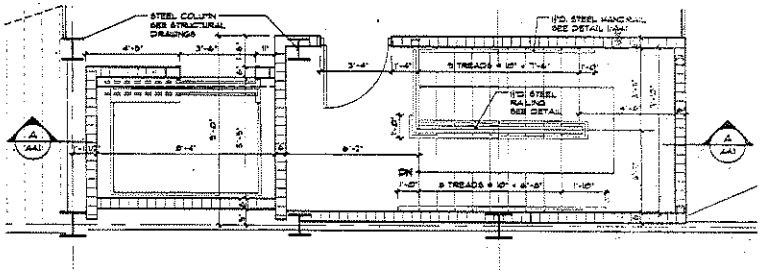
SECTION A-A
SCALE: 3/8" = 1'-0"



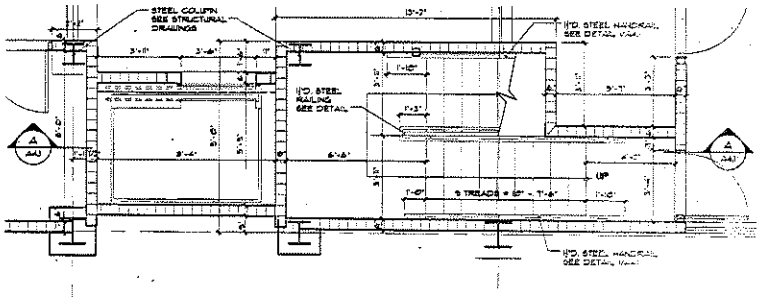
THIRD FLOOR PLAN
SCALE: 3/8" = 1'-0"



DETAIL
SCALE: 1" = 1'-0"



SECOND FLOOR PLAN
SCALE: 3/8" = 1'-0"



FIRST FLOOR PLAN
SCALE: 3/8" = 1'-0"

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RAY ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

SAN JUAN
PUERTO RICO

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SHEET TITLE:
STAIR NO.2
ENLARGED PLAN, SECTION AND DETAILS

REVISIONS:
AS-BUILT

SUBMITTAL:

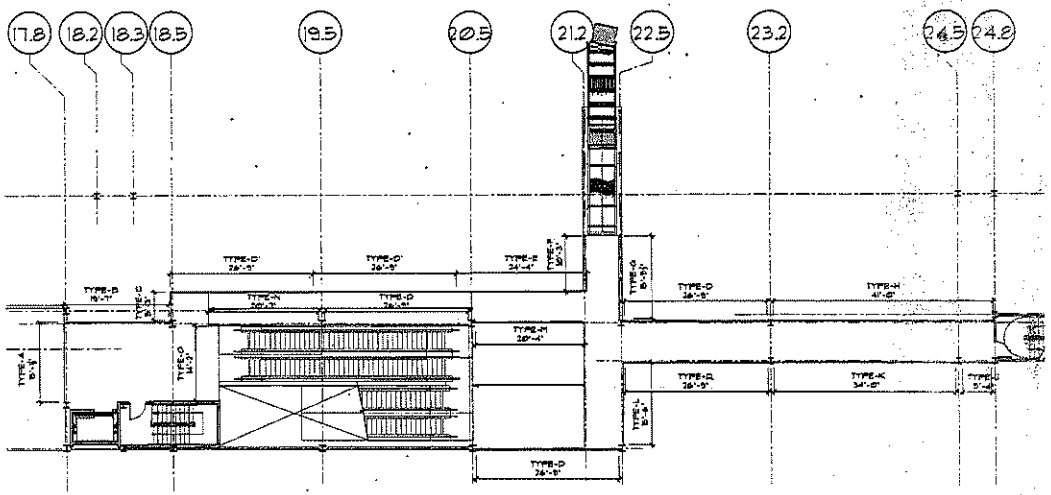
SCALE: AS SHOWN

DATE:

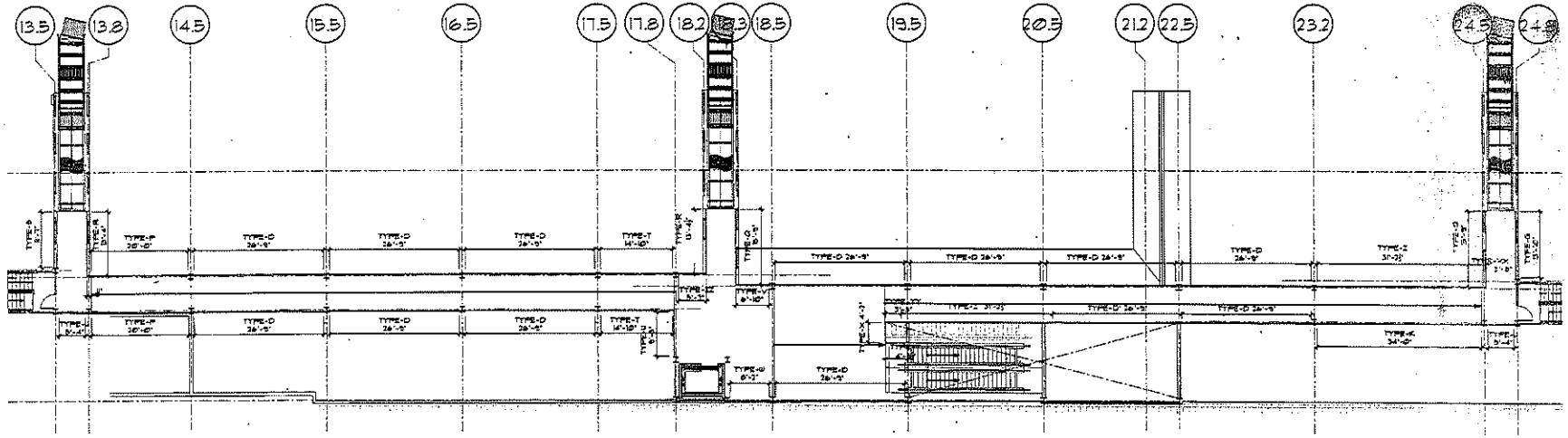
PROJECT No: 00-0652

DRAWN BY: CHECKED BY:

SHEET No:
A4.1



SECOND FLOOR PLAN (RAILING TYPES)
SCALE 3/32" = 1'-0"



THIRD FLOOR PLAN (RAILING TYPES)
SCALE 3/32" = 1'-0"

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SAN JUAN
PUERTO RICO

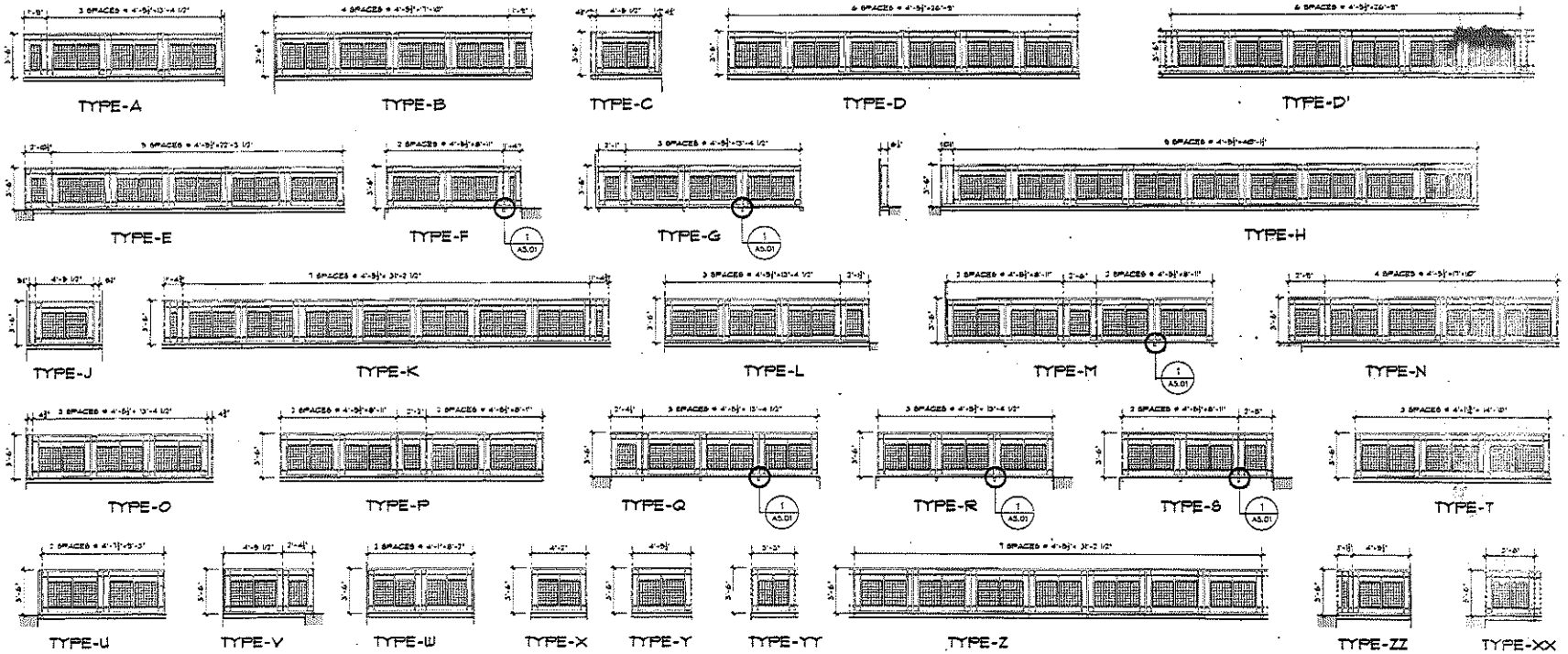
SHEET TITLE:
RAILINGS TYPES
FLOOR PLANS

REVISIONS:
AS-BUILT

SUBMITTAL:

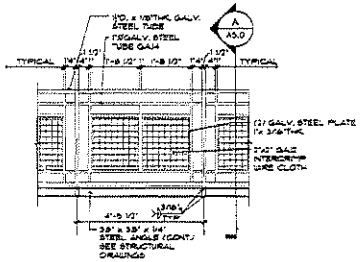
SCALE: AS SHOWN
DATE: 9/12/01
PROJECT No: 00-0852
DRAWN BY: CHECKED BY:

SHEET No:
A5.00



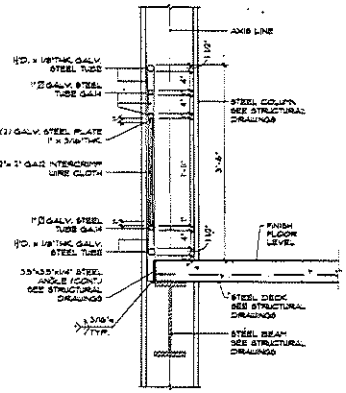
RAILINGS ELEVATIONS

SCALE 1/4" = 1'-0"



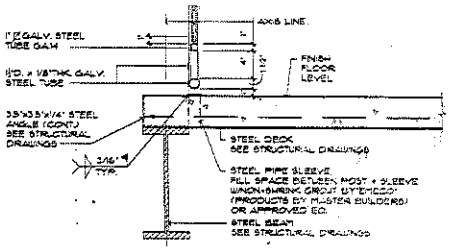
TYPICAL ELEVATION (4'-5 1/2")

SCALE 1/2" = 1'-0"



SECTION - A

SCALE 1" = 1'-0"



DETAIL

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

GENERAL NOTE:

1- PAINTED AND PRIMER SHALL BE ON SITE.
2- PRIMER SHALL BE EPOXY ZINCPRIMER OR MOISTURE CURE URETHANE ZINC PRIMER BY SHERWIN WILLIAMS.
3- FINISH PAINT SHALL BE INDUSTRIAL COATINGS, ACROLON 218 HS ACRYLIC POLYURETHANE POLYESTER MODIFIED ACRYLIC POLYURETHANE FORMULATED. BY SHERWIN WILLIAMS.
4- COLOR TO BE SELECTED BY ARCHITECT.

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CONSTRUCTION MANAGERS

RAY
ARCHITECTS
ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

SAN JUAN
PUERTO RICO

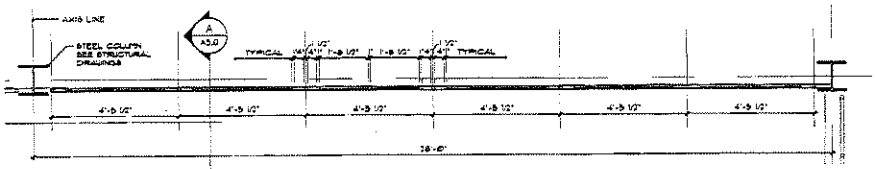
SHEET TITLE:
RAILINGS ELEVATIONS & DETAILS

REVISIONS:
AS-BUILT

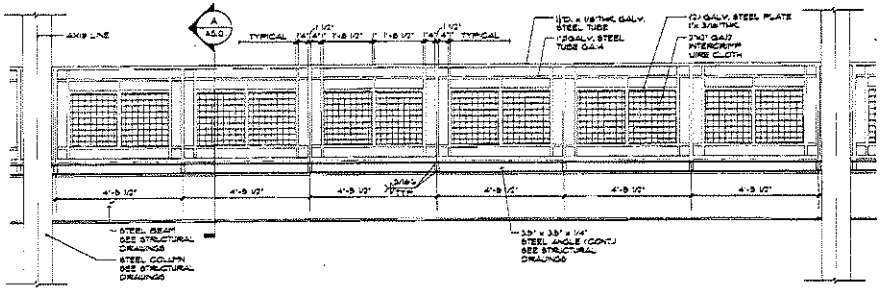
SUBMITTAL:

SCALE: AS SHOWN
DATE: 9/12/01
PROJECT No: 00-0652
DRAWN BY: CHECKED BY:

SHEET No:
A5.01

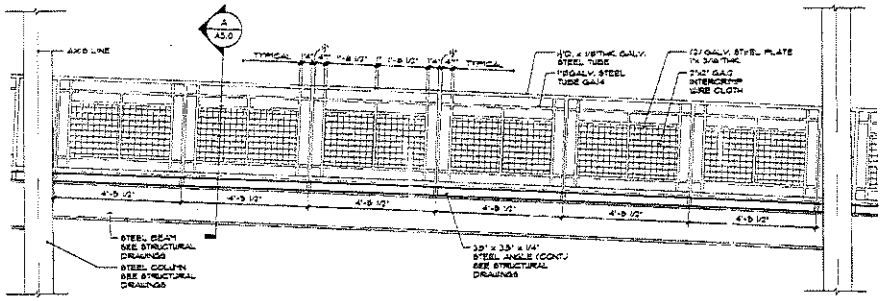


PLAN
SCALE 1/2" = 1'-0"



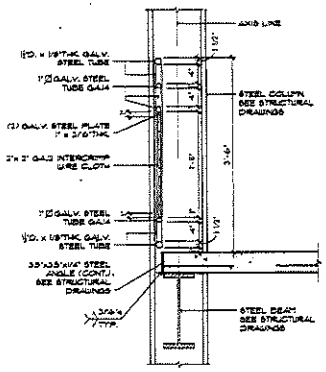
ELEVATION
SCALE 1/2" = 1'-0"

TYPICAL RAILING (BETWEEN AXIS 28'-0" SPAN)
SCALE AS SHOWN
(FLAT CONDITION)



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

TYPICAL RAILING (BETWEEN AXIS 28'-0" SPAN)
SCALE AS SHOWN
(SLOPE CONDITION)



SECTION
SCALE 1" = 1'-0"

GENERAL NOTE:

1- PAINTED AND PRIMER SHALL BE ON SITE.
2- PRIMER SHALL BE EPOXY ZINC-PRIMER OR MOISTURE CURE URETHANE ZINC PRIMER BY SHERWIN WILLIAMS.
3- FINISH PAINT SHALL BE INDUSTRIAL COATINGS ACROLON 218 HS ACRYLIC POLYURETHANE POLYESTER MODIFIED ACRYLIC POLYURETHANE FORMULATED, BY SHERWIN WILLIAMS.
4- COLOR TO BE SELECTED BY ARCHITECT.

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RAY
ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

SAN JUAN
PUERTO RICO

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SHEET TITLE:
RAILINGS DETAILS

REVISIONS:
AS-BUILT

SUBMITTAL:

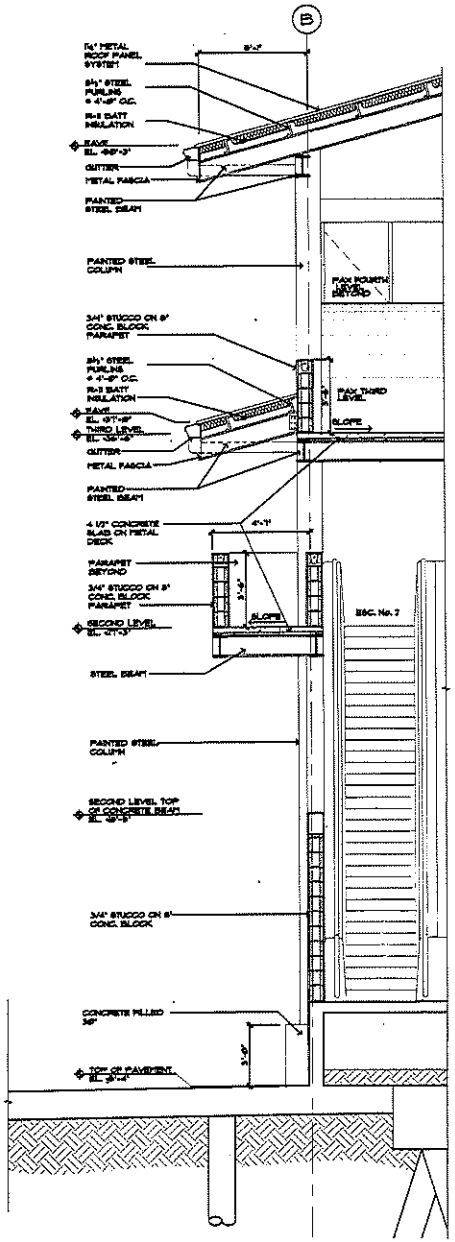
SCALE: AS SHOWN

DATE: 07/18/01

PROJECT No: 00-0652

DRAWN BY: CHECKED BY:

SHEET No
A5.02



1 WALL SECTION
A5.0 SCALE: 1/2" = 1'-0"

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RAY ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE PHASE

SAN JUAN
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SHEET TITLE:
WALL SECTIONS

REVISIONS:
AS-BUILT

SUBMITTAL:
50% 08/28/00
75% 10/20/00
90% 12/01/00

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

DATE: 04/04/01

PROJECT No: 00-0852

DRAWN BY: HWM
CHECKED BY: DJ

SHEET No: A5.03

FINISH SCHEDULE

FLOORING, BASE AND CEILING

ROOM No.	ROOM NAME	FLOORING: PORCELAIN TILE	FLOORING: EXPOSED CONC	BASE: PORCELAIN TILE COVE	CEILING: PLASTER	CEILING: SPRAY ON AC FIREPROOFING	CEILING: 2'x2' ACOUSTICAL TILE	CEILING: 2'x4' ACOUSTICAL TILE	CEILING: GYPSUM BOARD	CEILING: EXPOSED CONCRETE	CEILING: EXISTING	CEILING: EXPOSED STRUCTURE	CEILING: PAINT	HEIGHT	REMARKS
FIRST FLOOR															
101	STAIR NO. 1		●									●	●		
102	PASSAGE WEST	●		●			●								
103	PASSAGE EAST	●		●			●		●						
104	MACHINE ROOM		●									●			
105	STAIR NO2		●									●	●		
106	STAIR NO3		●									●	●		
107	ELEVATOR CORE		●												
SECOND FLOOR															
201	STAIR NO. 1		●									●	●		
202	ELEVATOR LOBBY	●										●	●		
203	STAIR NO2		●									●	●		
204	PASSAGE WAY	●										●	●		
205	PAX BRIDGE	●										●	●		
206	RAMP EAST	●										●	●		
207	STAIR NO3		●									●	●		
208	ELEVATOR CORE														
THIRD FLOOR															
301	STAIR NO. 1		●									●	●		
302	RAMP WEST	●										●	●		
303	PAX BRIDGE	●										●	●		
304	RAMP WEST	●										●	●		
305	STAIR NO3		●									●	●		
306	ELEVATOR CORE														

WALLS — NORTH / SOUTH

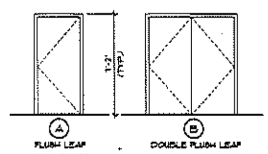
ROOM No.	ROOM NAME	N: CEMENT PLASTER	N: WALL COVERING No1	N: GYPSUM BOARD	N: CERAMIC TILE	N: EXPOSED BLOCK	N: PLASTER SKIM COAT	N: GLASS	N: EXISTING	N: GLASS BLOCK	N: WALL COVERING No2	N: PAINT	S: CEMENT PLASTER	S: WALL COVERING No1	S: GYPSUM BOARD	S: CERAMIC TILE	S: EXPOSED BLOCK	S: PLASTER SKIM COAT	S: GLASS	S: EXISTING	S: WALL COVERING No2	S: PAINT
101	STAIR NO. 1																					
102	PASSAGE WEST								●											●		
103	PASSAGE EAST	●										●								●		●
104	MACHINE ROOM	●										●										●
105	STAIR NO2	●										●										●
106	STAIR NO3																					
107	ELEVATOR CORE	●										●										●
201	STAIR NO. 1																					
202	ELEVATOR LOBBY																					●
203	STAIR NO2																					
204	PASSAGE WAY																					
205	PAX BRIDGE																					
206	RAMP EAST																					
207	STAIR NO3																					
208	ELEVATOR CORE	●										●										●
301	STAIR NO. 1																					
302	RAMP WEST																					
303	PAX BRIDGE																					
304	RAMP WEST																					
305	STAIR NO3																					
306	ELEVATOR CORE	●										●										●

WALLS — EAST / WEST

ROOM No.	ROOM NAME	E: CEMENT PLASTER	E: WALL COVERING No1	E: GYPSUM BOARD	E: CERAMIC TILE	E: EXPOSED BLOCK	E: PLASTER SKIM COAT	E: GLASS	E: EXISTING	E: WALL COVERING No2	E: PAINT	W: CEMENT PLASTER	W: WALL COVERING No1	W: GYPSUM BOARD	W: CERAMIC TILE	W: EXPOSED BLOCK	W: PLASTER SKIM COAT	W: GLASS	W: EXISTING	W: WALL COVERING No2	W: PAINT
101	STAIR NO. 1																				
102	PASSAGE WEST								●										●		
103	PASSAGE EAST	●									●	●									●
104	MACHINE ROOM	●									●	●									●
105	STAIR NO2	●									●	●									●
106	STAIR NO3																				
107	ELEVATOR CORE	●									●	●									●
201	STAIR NO. 1																				
202	ELEVATOR LOBBY																				
203	STAIR NO2																				
204	PASSAGE WAY																				
205	PAX BRIDGE																				
206	RAMP EAST																				
207	STAIR NO3																				
208	ELEVATOR CORE	●									●	●									●
301	STAIR NO. 1																				
302	RAMP WEST																				
303	PAX BRIDGE																				
304	RAMP WEST																				
305	STAIR NO3																				
306	ELEVATOR CORE	●									●	●									●

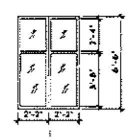
DOOR SCHEDULE

NUMBER	SIZE: WIDTH	SIZE: HEIGHT	SIZE: THK	DOOR: MATERIAL	DOOR: TYPE	FRAME: MTL	FRAME: JAMB	FRAME: HEAD	FRAME: SILL	MISC.: HDW	MISC.: LABEL	REMARKS
FIRST FLOOR												
100	3'-0"	7'-0"	1 3/4"	GALV. METAL	A	GALV. METAL	⊖	⊖	⊖	---	---	--
101	(2) 3'-0"	7'-0"	1 3/4"	GALV. METAL	B	GALV. METAL	⊖	⊖	⊖	---	---	--
102	(2) 3'-0"	7'-0"	1 3/4"	GALV. METAL	B	GALV. METAL	⊖	⊖	⊖	---	---	--
103	(2) 2'-6"	7'-0"	1 3/4"	GALV. METAL	B	GALV. METAL	⊖	⊖	⊖	---	---	--
104	3'-0"	7'-0"	1 3/4"	GALV. METAL	A	GALV. METAL	⊖	⊖	⊖	---	---	--
105	3'-0"	7'-0"	1 3/4"	GALV. METAL	A	GALV. METAL	⊖	⊖	⊖	---	---	--
106	3'-0"	7'-0"	1 3/4"	GALV. METAL	A	GALV. METAL	⊖	⊖	⊖	---	---	--
SECOND FLOOR												
200	3'-0"	7'-0"	1 3/4"	GALV. METAL	A	GALV. METAL	⊖	⊖	⊖	---	---	--



WINDOW SCHEDULE

NUMBER	LOCATION	OPENING: WIDTH	OPENING: HEIGHT	WND. TYPE	MTL	FRAME: JAMB	FRAME: HEAD	FRAME: SILL	REMARKS
FIRST FLOOR									
A	PASSAGE EAST	4'-4"	6'-6"	1	ALUM. & GLASS	⊖	⊖	⊖	---



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PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN PUERTO RICO

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SHEET TITLE: FINISH SCHEDULE

REVISIONS: 1-GEN. REV. JULY/19/2001

AS-BUILT

SUBMITTAL: 30% 08/28/00

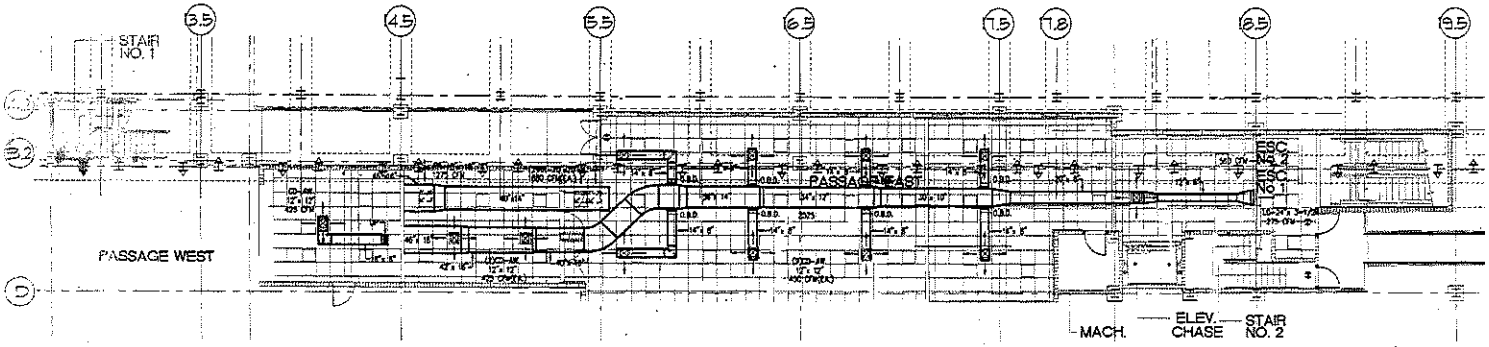
SCALE: N.T.S.

DATE: 09/20/00

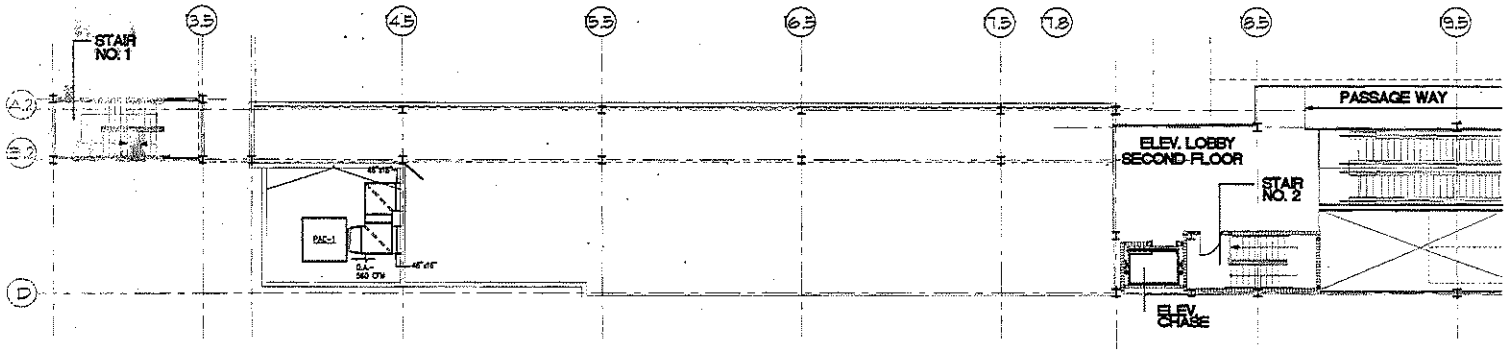
PROJECT No: 00-0652

DRAWN BY: CHECKED BY:

SHEET No: A6.0



GROUND PARTIAL FLOOR PLAN



ROOF PARTIAL FLOOR PLAN

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SHEET TITLE:
FIRST, SECOND & THIRD FLOOR HVAC PLAN LAYOUT

REVISIONS:
AS-BUILT
△ 6/28/01 GENERAL REVISION

SUBMITTAL:
03/13/01 GENERAL REVISION

SCALE:

DATE:

PROJECT No: 00-119

DRAWN BY: CHECKED BY: M.PEREZ

SHEET No: H.2.0

AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	AREA SERVED	COOLING COIL AIR SIDE: TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A.T. D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	SENSIBLE LOAD BTU/HR.	TOTAL LOAD BTU/HR.	NOM. TONS	CONDENSER: REFRIG. TYPE	FAN: QTY.	HP	RPM	F.L.A. EA.	AIR ENTERING TEMPERATURE	EVAPORATOR FAN: E.S.P.	MAX. B.H.P.	R.P.M.	F.L.A.	COMPRESSOR: QTY.	COMPLIB. RLA	COMPLIB. LRA	COMPLIED RLA	COMPLIED LRA	ELECTRICAL DATA: VOLTAGE RANGE	V	PH	CY	MCA	MOCP	AHU MANUFACTURER: MAKE	MODEL	ACCESSORIES
PAC-1	PATIO ROOF TERRACE	570.0	150	76.5	63.83	55	54.6	126,000	175,000	15	22	4	1/2	--	1.7	95	1.0	4.3	1700	7.3	1	8.9	63.0	8.9	63.0	414-528	460	3	60	47.5	60	MCQUAY	PQ018G-4	GFI RECEPTACLE-HINGED ACCESS PANELS-THERMOSTAT-DESCHAIR 671 NON-PROGRAMMABLE ROOF CURB-MANUAL OUTDOOR AIR DAMPER-TIME GUARD CONTROL CIRCUIT-PHENOLIC COATING

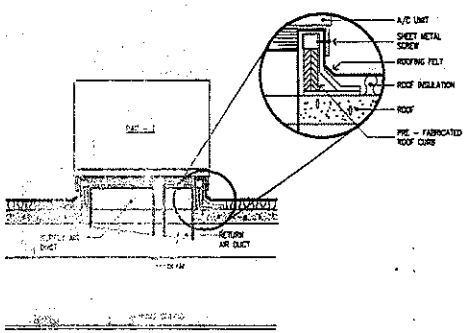
FANS AND VENTILATORS SCHEDULE

FAN NO.	SERVING	LOCATION	TYPE OF SERVICE	CFM	ESP IN. WG.	FAN R.P.M.	MOTOR DATA: H.P.	V	P.H.	CY	TOTC	DRIVE	MANUFACTURERS DATA: EQUAL TO	TYPE	MODEL NO.	CLASS NO.	ARRANG.	ROTAT.	DISCH.	CURB: MODEL	ROOF CRNC	ACCESORIES: DISCH. W. DIFFUSER	SCREEN	BIRD/INSECT SCREEN	MATERIAL	REMARKS	UNIT STARTED FROM
EF-1	ELEVATOR	MECHANICAL ROOM	EXHAUST	710	.15	1472	.06	120	1	60	YES	BELT	LORIN COOK	CENTRIFUGAL WALL	100W20	-	-	-	-	N/A	N/A	YES	-		ALUMINUM	-	-

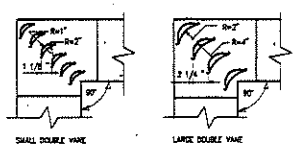
CEILING DIFFUSERS SCHEDULE

DESIGNATION	SERVICE	TYPE	MATERIAL	MOUNT	MANUFACTURER EQUAL OR SIMILAR	REMARKS
CD	SUPPLY	CEILING DIFFUSER	ALUMINUM	FLUSH	METALAIRE SERIES 3000-B	A,B,C
RR	RETURN	REGISTER	ALUMINUM	FLUSH	METALAIRE SERIES- RHS	A,B,C
LD	SUPPLY	LINEAR BAR GRILLE	ALUMINUM	WALL	METALAIRE SERIES 2000	A,B,C

A. SIZE AND PATTERN AS INDICATED ON DWG.
B. DIFFUSER BLADE ORIENTATION TO BE DETERMINED
C. COLOR SELECTED BY ARCHITECT



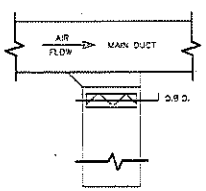
1 PAC-1 & 2 ROOF INST. DETAIL
NOT TO SCALE



SMALL DOUBLE VANE

LARGE DOUBLE VANE

2 TYPICAL SQUARE ELBOW DETAIL
NOT TO SCALE



SEE PLAN DWG.

3 TYPICAL BRANCH TAKE-OFF DETAIL
NOT TO SCALE

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SHEET TITLE:
HVAC SCHEDULES & DETAILS

REVISIONS:
AS-BUILT

SUBMITTAL:
03/13/01 GENERAL REVISION

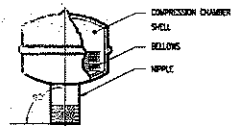
SCALE: N.T.S.

DATE:

PROJECT No: 00-119

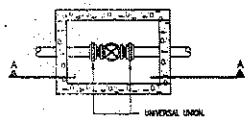
DRAWN BY: CHECKED BY: J. PEREZ

SHEET No: H.6.0

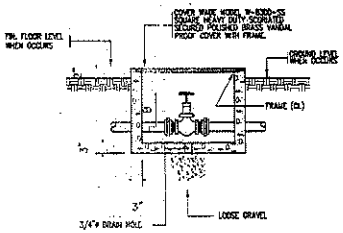


WATER HAMMER ARRESTER						
SYMBOL	J.R. SMITH MODEL	MAX. FIXTURE UNITS	DIMENSIONS A	DIMENSIONS B	ACCESS DOOR, J.R. SMITH	ACCESS DOOR SIZE.
(A)	5000	1-11	3/4	4	FIG. 4735-NB-U	8" X 8"
(B)	5010	12--32	1	5	FIG. 4735-NB-U	10" X 10"

WATER HAMMER ARRESTER DETAIL & SCHEDULE
NOT TO SCALE



PLAN



SECTION A-A

VALVE BOX SCHEDULE							
DIMENSIONS (INCHES)	VALVE SIZE (IN INCHES)						
	3"	2 1/2"	2"	1 1/2"	1 1/4"	1"	3/4"
A	4 9/16"	4 1/16"	3 1/2"	3 1/16"	2 13/16"	2 1/2"	2 1/2"
B	16 1/4"	14"	11 3/4"	9 1/2"	8 1/4"	7"	7"

VALVE BOX DETAIL & SCHEDULE
NOT TO SCALE

GENERAL PLUMBING NOTES.

1- FOR PLUMBING PIPING MATERIAL REFER TO SPECIFICATION 15410.

2- LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.

3- MAXIMUM SPACING FOR CLEANOUT IN LINES 4" AND SMALLER SHALL BE 75 FEET. FOR LARGER PIPES SHALL BE 100 FEET APART.

4- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR LEAVING SLEEVES AT SLABS OR BEAMS FOR PIPING LAYOUT AND FIXTURES INSTALLATION.

5- ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.

6- THE PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE, THE NATIONAL STANDARD PLUMBING CODE, THE HEALTH DEPARTMENT AND THE SPECIFICATIONS ISSUED FOR THE PROJECT. INSTALLATION SHALL CONFORM TO ENERGY CONSERVATION DESIGN MANUAL STANDARDS FROM NEW NON-RESIDENTIAL BUILDINGS.

7- SIZES SHOWN IN FIXTURES SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.

8- NOT EXPOSED VALVES SHALL BE PROVIDED WITH ACCESS IN THE WALL FOR THE OPERATION AND MAINTENANCE.ACCESS SHALL BE EQUAL OR SIMILAR TO SMITH FIG. 4735 8" X 8" WALL ACCESS COVER.

9- UNLESS OTHERWISE INDICATED ALL DRAINAGE PIPING 3" AND SMALLER SHALL BE SLOPED 1/4" PER FOOT.

10- ALL HORIZONTAL PORTIONS OF SOIL STACKS AND BRANCHES SHALL HAVE MINIMUM SLOPE OF 1/4" PER FOOT FOR PIPES 3" DIAMETER OR LESS, 1/8" PER FOOT FOR PIPES 4" OR LARGER DIAMETER.

11- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK IN ORDER TO AVOID ANY INTERFERENCE WITH THE WORK OF OTHER CONTRACTORS AND THE INSTALLATION OF FIXTURES AND OR EQUIPMENT BY OTHERS.

12- PROVIDE ø 1" x 24" LENGTH AIR CHAMBER ON THE TOP OF EACH HOT AND COLD WATER SUPPLY BRANCH

13- GATE VALVES LOCATED UNDERGROUND OR BELOW FLOOR SLABS SHALL BE INSTALLED WITHIN A CAST IRON OR CONCRETE BOX WITH 8 X 8 J.R. SMITH ACCESS COVER FIG. 4910-U.

14- PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICES AND/OR CONNECTIONS REQUIRED FOR THE PLUMBING FIXTURES AND/OR EQUIPMENT SHOWN ON THE FIXTURES PLANS.

15- PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING-IN AND INSTALL THE PLUMBING FIXTURES, INDICATED ON THESE DWGS.

16- WHENEVER REQUIRED OR NEEDED, THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.

17- BEFORE STARTING CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF EXISTING PIPE LINES TO BE/AIN IN USE. ANY SIGNIFICANT DISCREPANCY WITH THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE NOTIFIED TO THE ARCHITECT FOR REVISION.

18- ALL HOT WATER LINES SHALL BE INSULATED WITH ARMAFLEX 3/4"-1" THICK MATERIAL WITH A THERMAL CONDUCTIVITY NOT TO EXCEED 0.25BTU PER SQ INCH PER HOUR AT MEAN TEMPERATURE OF 75°F

19- FIXTURES, FITTINGS, ACCESSORIES, MATERIAL AND ALL PLUMBING PRODUCTS SHALL BE AS PER SPECIFICATIONS ON THESE DRAWINGS. EQUAL OR SIMILARS SHALL BE ONLY ACCEPTED IF PREVIOUSLY APPROVED BY THE ARCHITECT.

20- OBTAIN AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.

21- ALL DRAINS SHALL BE PROVIDED WITH P-TRAPS.

22- INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINE. ALL EXPOSED LINES TO BE CHROME PLATED.

23- ALL DRAIN, WATER LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT AND SECURED IN PLACE.

24- THE EQUIPMENT ROUGH-INS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OF SUPPLIER MAY SUBSTITUTE ON THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY ON THE CONTRACTOR.

LEGEND.

- SANITARY LINE
- EXISTING SANITARY LINE
- VENTILATION LINE
- COLD WATER LINE
- EXISTING COLD WATER LINE
- HOT WATER LINE
- W.H. WATER HEATER
- C.O. FLOOR CLEANOUT
- W.C.O. WALL CLEANOUT
- V.T.R. VENT THRU ROOF
- WALL CLEANOUT
- FLOOR CLEANOUT
- EXISTING SANITARY RISER IDENTIFICATION
- EXISTING COLD WATER RISER IDENTIFICATION

PLUMBING FIXTURE SCHEDULE					
ITEM	DESCRIPTION	WATER SUPPLY C.W.	WATER SUPPLY H.W.	WASTE OR DRAIN PER FIXTURE	REMARKS
P-1A	WATER CLOSET (HANDICAPPED)	1"ø	-	1-1/4"ø	SEE ARCHITECTURAL DWGS.
P-2A	URINAL (HANDICAPPED)	1/2"ø	-	1-1/4"ø	SEE ARCHITECTURAL DWGS.
G.C.O.	GROUND CLEANOUT	-	-	AS SHOWN ON DWGS.	SMITH FIG. 4261-U IN 12"X12" CONCRETE PAD
F.C.O.	FLOOR CLEANOUT	-	-	AS SHOWN ON DWGS.	SMITH FIG. 4040-U
W.C.O.	WALL CLEANOUT	-	-	AS SHOWN ON DWGS.	SMITH FIG. 4472
W.C.O.-2	CLEANOUT TEE	-	-	AS SHOWN ON DWGS.	SMITH FIG. 4150
H.B.	HOSE BIBB	3/4"ø	-	-	SMITH FIG. 5609

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PHONE (305) 461-2323 FAX (305) 461-2323 E-mail: bea@bea-inc.com http://www.bea-inc.com

RAY ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

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SHEET TITLE:
GENERAL PLUMBING NOTES, SCHEDULES AND DETAILS

REVISIONS:
△ GENERAL REVISIONS
AS-BUILT

SUBMITTAL:
03/13/01 GENERAL REVISION

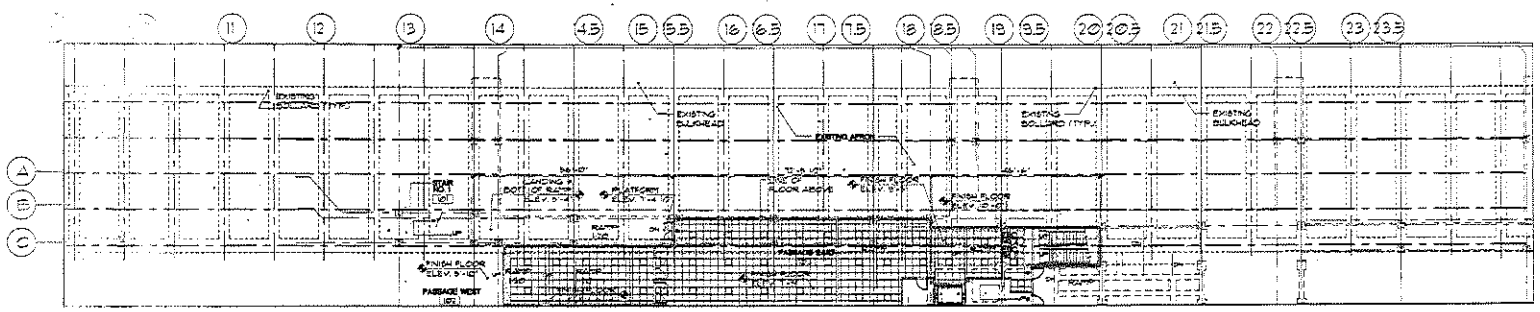
SCALE: N.T.S.

DATE:

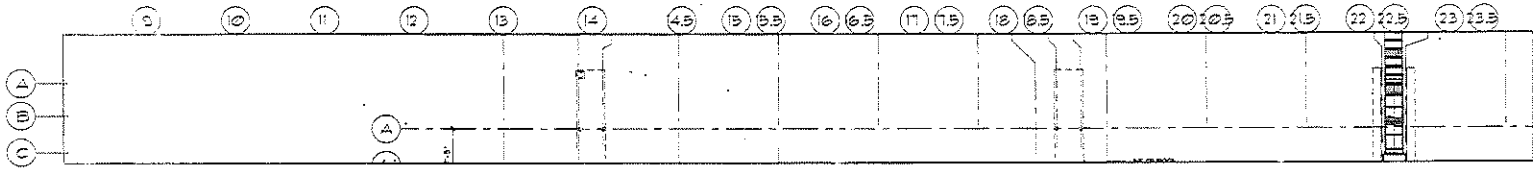
PROJECT No: 00-119

DRAWN BY: V. RAMOS, M. RODRIGUEZ
CHECKED BY: M. PEREZ

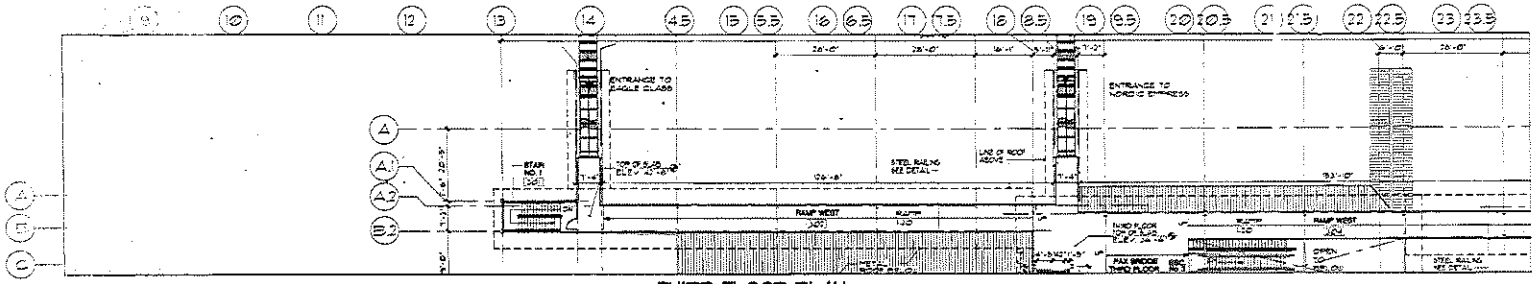
SHEET No:
PL.1.0



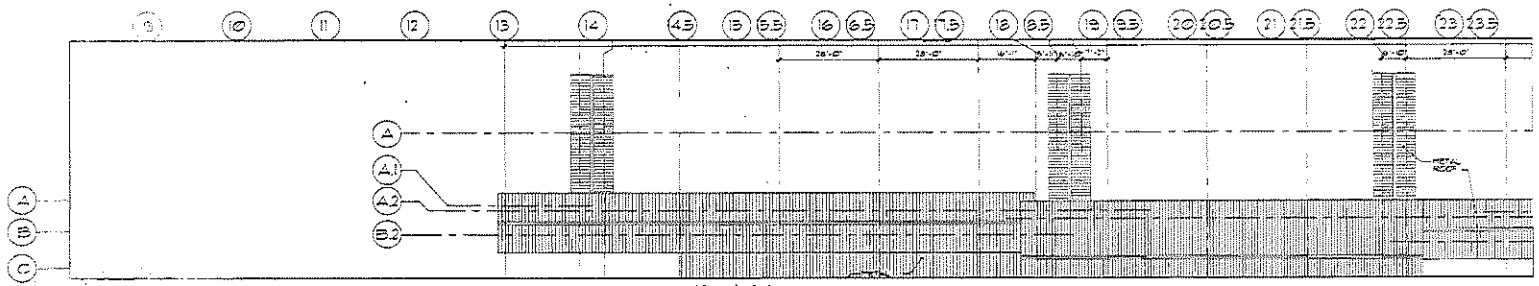
FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



ROOF PLAN

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SHEET TITLE:
FIRST, SECOND, THIRD AND ROOF PLAN
PLUMBING LAYOUT

REVISIONS:
AS-BUILT

SUBMITTAL:
03/13/01 GENERAL REVISION

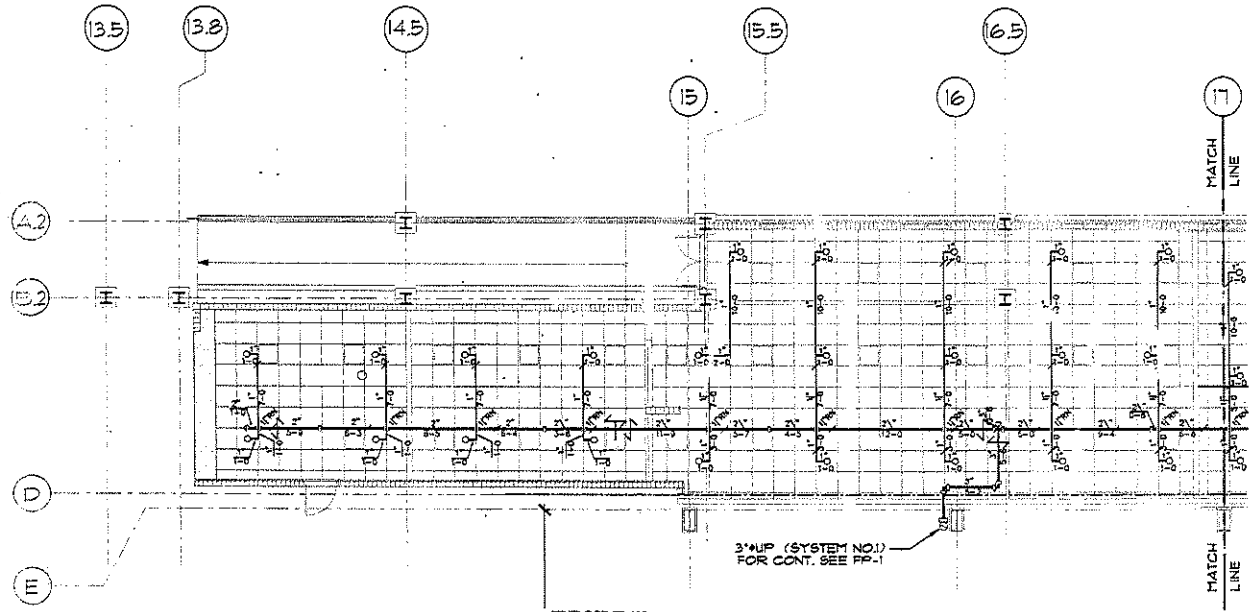
SCALE: 1/16"=1'-0"

DATE:

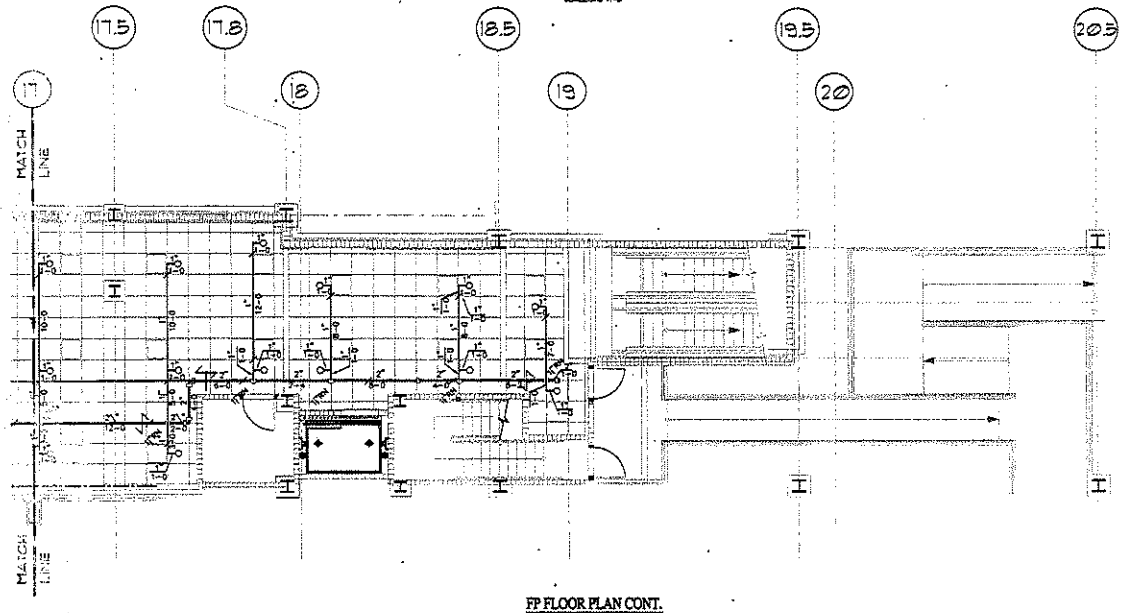
PROJECT No: 00-119

DRAWN BY: M.RODRIGUEZ
CHECKED BY: M.PEREZ

SHEET No:
PL.2.0



FP FLOOR PLAN



FP FLOOR PLAN CONT.

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ARCHITECTS ENGINEERS

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SHEET TITLE:
FIRE PROTECTION
SPRINKLERS DIST.

REVISIONS:
AS-BUILT

SUBMITTAL:

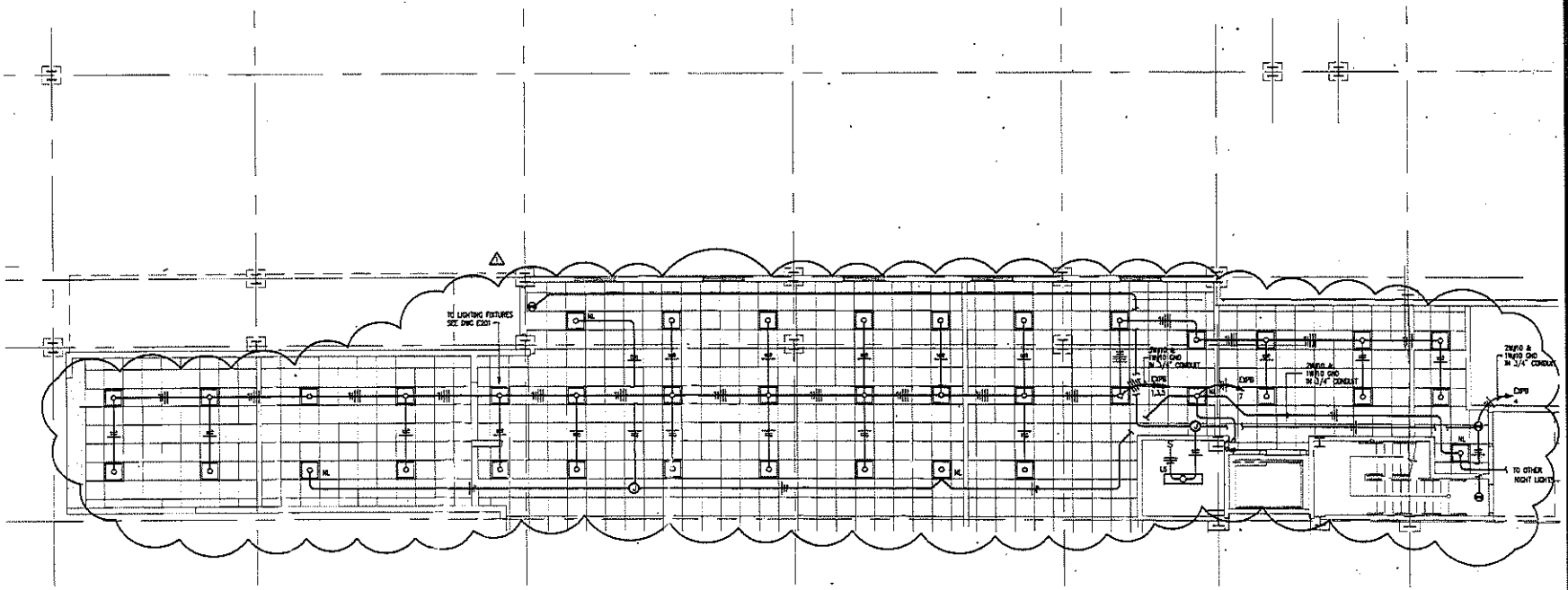
SCALE: 1=1

DATE: 09/10/01

PROJECT No: 00-119

DRAWN BY: V.RAMOS
CHECKED BY: A.ACEVEDO

SHEET No:
FP.1.



NOTE:

1: ALL LIGHTING FIXTURE ARE TYPE L-2, BUT 7'-4", R2428277/F327.

2: ADJACENT LIGHTING FIXTURES SHALL BE CONNECTED TO ALTERNATE CIRCUITS.

3: PROVIDE CONTACTOR WITH PUSH BUTTON CONTROL FOR CONTROL OF REGULAR LIGHTING CIRCUITS.

FIRST FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"

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PUERTO RICO

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SHEET TITLE:
FIRST FLOOR LIGHTING PLAN

REVISIONS:
AS-BUILT

	DATE	DWN	REVIEW		
1				E.A.	C.T.

SUBMITTAL:

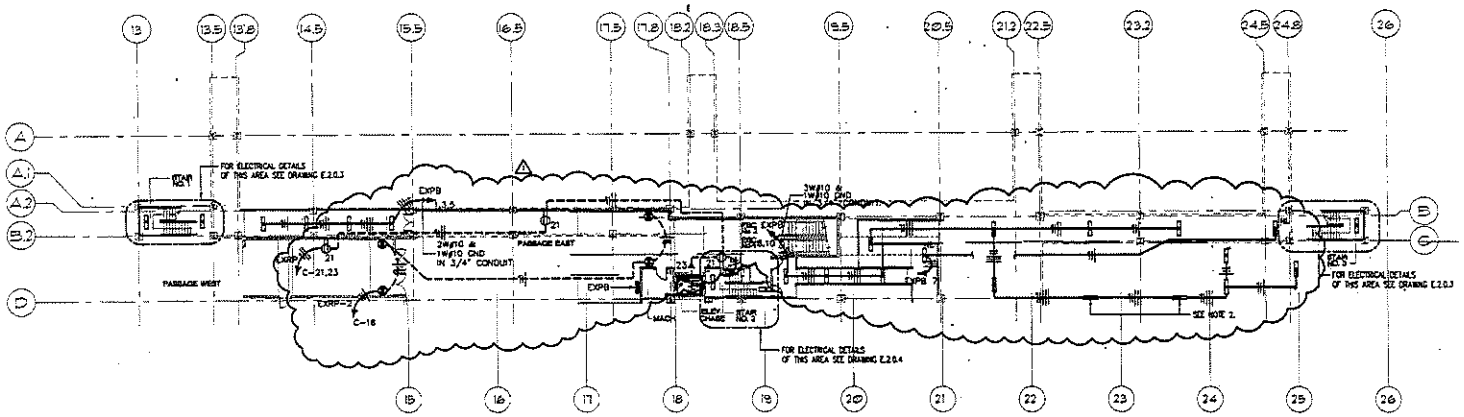
SCALE: 3/16"=1'-0"

DATE: JULY/24/01

PROJECT No: 00-0652

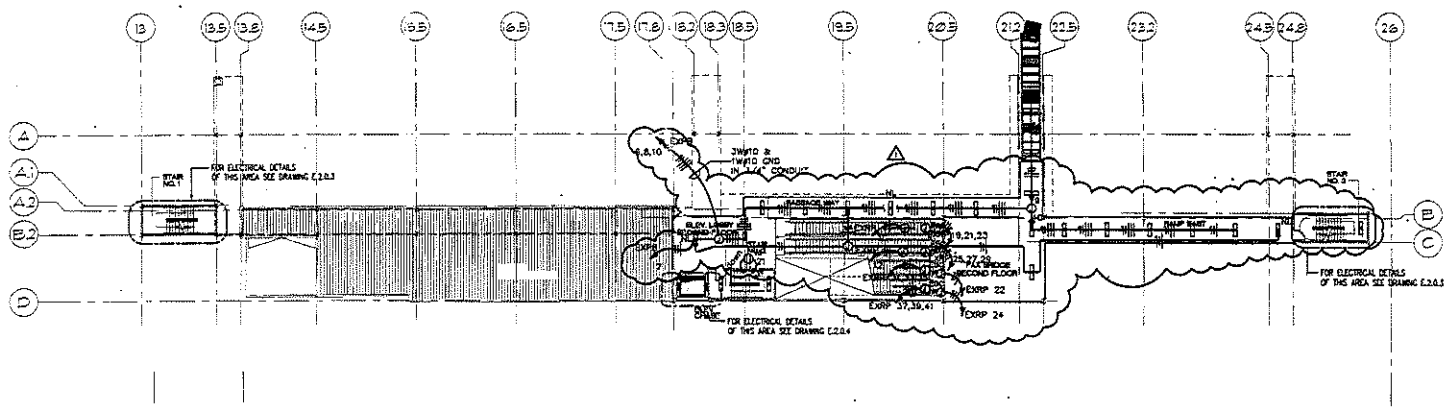
DRAWN BY: E. ROBLES, A. SANTIAGO
CHECKED BY: G. TORRES

SHEET No: E.2.0.0



FIRST FLOOR LIGHTING AND RECEPTACLE PLANS.

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



SECOND FLOOR LIGHTING AND RECEPTACLE PLAN

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

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BAY ARCHITECTS ENGINEERS

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SHEET TITLE: FIRST AND SECOND FLOOR LIGHTING PLAN

REVISIONS: AS-BUILT

SUBMITTAL:

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

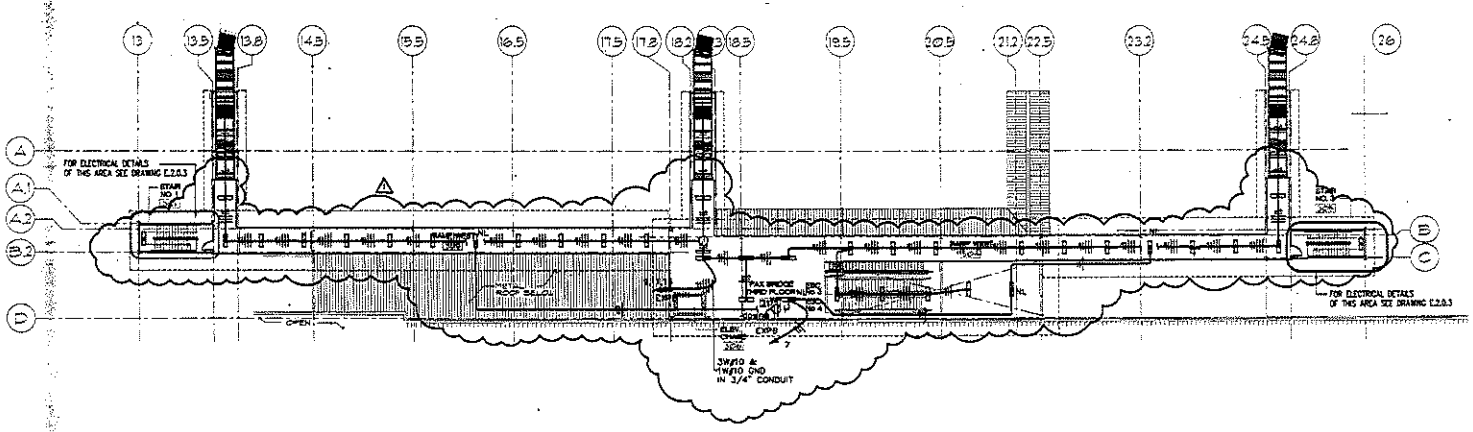
DATE: JULY/24/01

PROJECT No: 00-0882

DRAWN BY: E. ROBLES, A. SANTIAGO

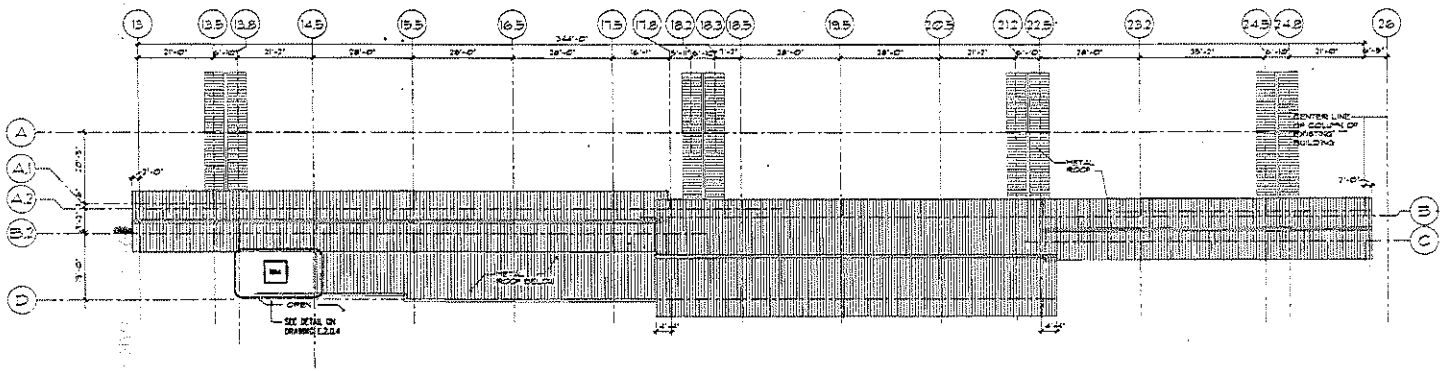
CHECKED BY: C. TORRES

SHEET No. E2.0.1



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

THIRD FLOOR LIGHTING AND RECEPTACLE PLAN



ROOF POWER PLAN

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

NOTE:
1. ALL LIGHTING FIXTURE ARE TYPE L-8A UNLESS OTHERWISE SPECIFIED.

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SHEET TITLE:
THIRD FLOOR LIGHTING PLAN AND ROOF POWER PLAN

REVISIONS:
AS-BUILT

SUBMITTAL:

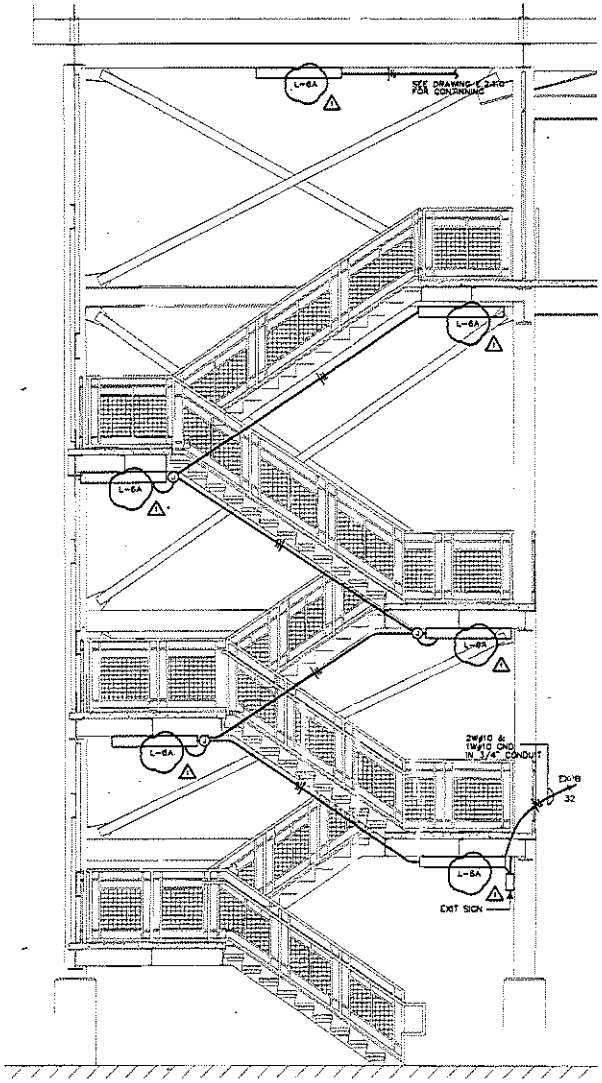
SCALE: 1/16" = 1'-0"

DATE: JULY/24/01

PROJECT No: 00-0852

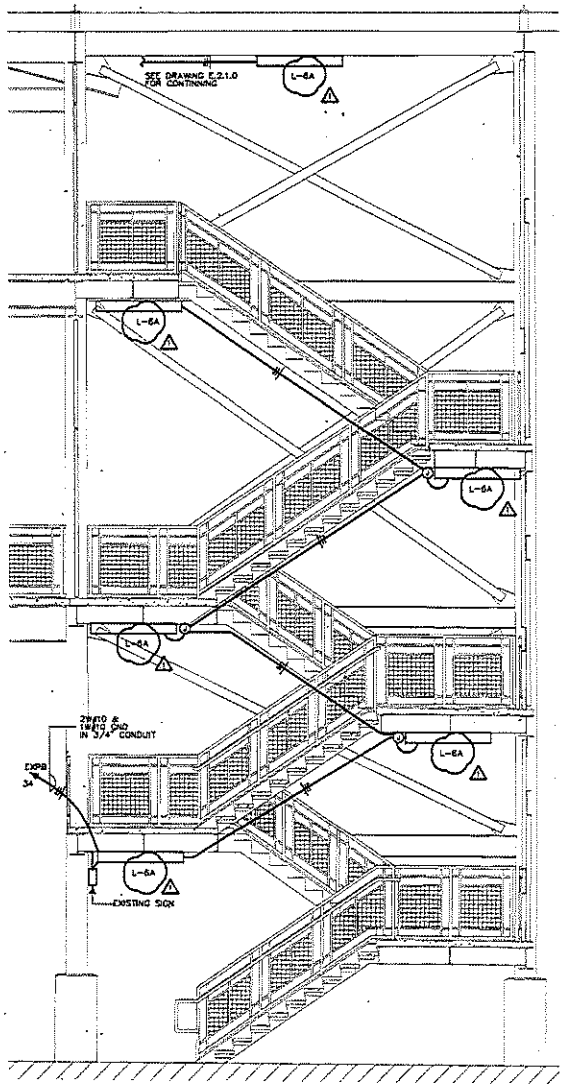
DRAWN BY: R. ROBLES, A. SANTIAGO
CHECKED BY: G. TORRES

SHEET No: E2.0.2



STAIR NO. 1
SCALE: 3/8" = 1'-0"

NOTE:
1. ALL LIGHTING FIXTURES ARE TYPE L-6A UNLESS OTHERWISE SPECIFIED.



STAIR NO. 3
SCALE: 3/8" = 1'-0"

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SHEET TITLE:
DETAILS

REVISIONS:
AS-BUILT

SUBMITTAL:

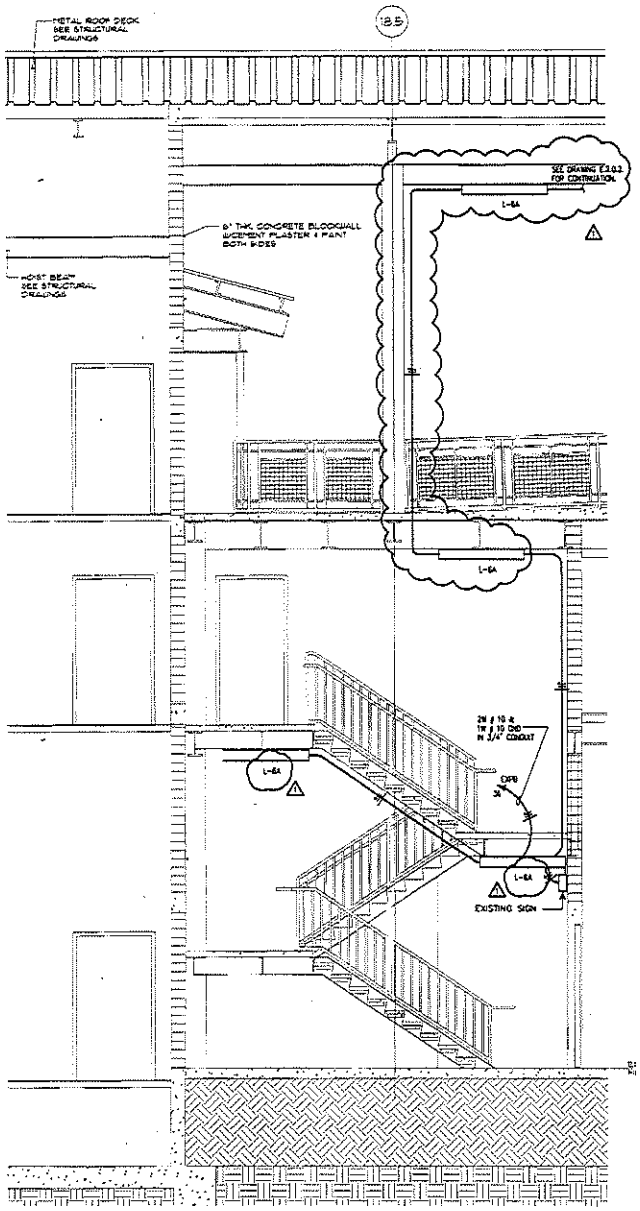
SCALE:
3/8"=1'-0"

DATE:
JULY/24/01

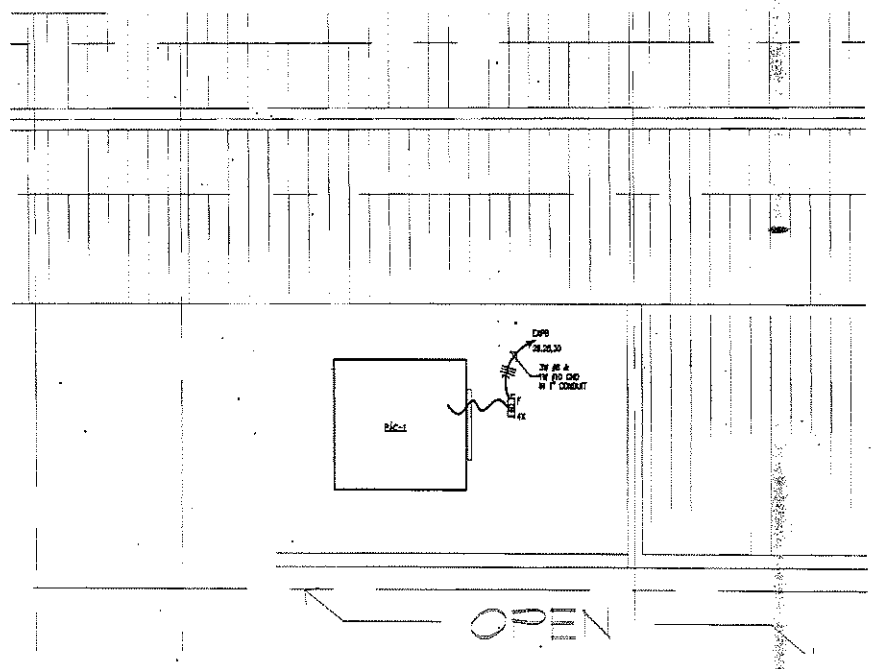
PROJECT No:
00-0852

DRAWN BY: E. ROBLES, A. SANTIAGO
CHECKED BY: G. TORRES

SHEET No:
E.2.0.3

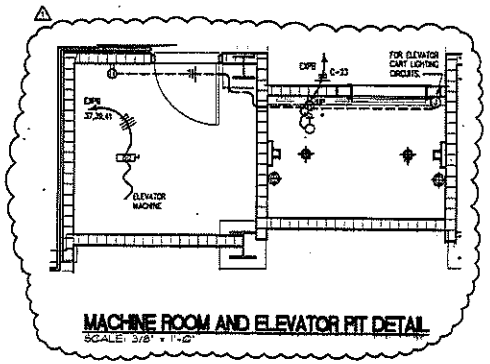


STAIR NO. 2
SCALE: 3/8" = 1'-0"



ROOF DETAIL
SCALE: 3/8" = 1'-0"

NOTE:
1. ALL LIGHTING FIXTURES ARE TYPE L-6A UNLESS OTHERWISE SPECIFIED.



MACHINE ROOM AND ELEVATOR PIT DETAIL
SCALE: 3/8" = 1'-0"

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SHEET TITLE:
DETAILS

REVISIONS:
~~AS-BUILT~~

SUBMITTAL:

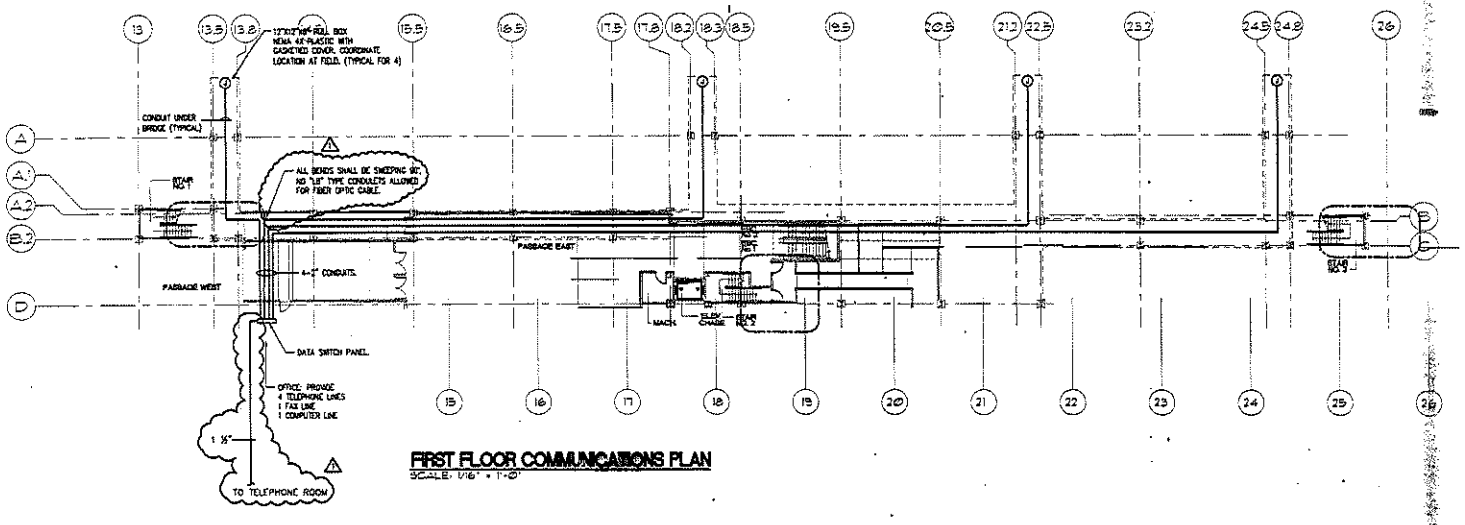
SCALE: 3/8"=1'-0"

DATE: JULY/24/01

PROJECT No: 00-0652

DRAWN BY: E. ROBLES, A. SANTIAGO
CHECKED BY: G. TORRES

SHEET No: E.2.0.4



FIRST FLOOR COMMUNICATIONS PLAN

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

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SHEET TITLE: FIRST FLOOR COMMUNICATION PLAN

REVISIONS: AS-BUILT

SUBMITTAL:

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

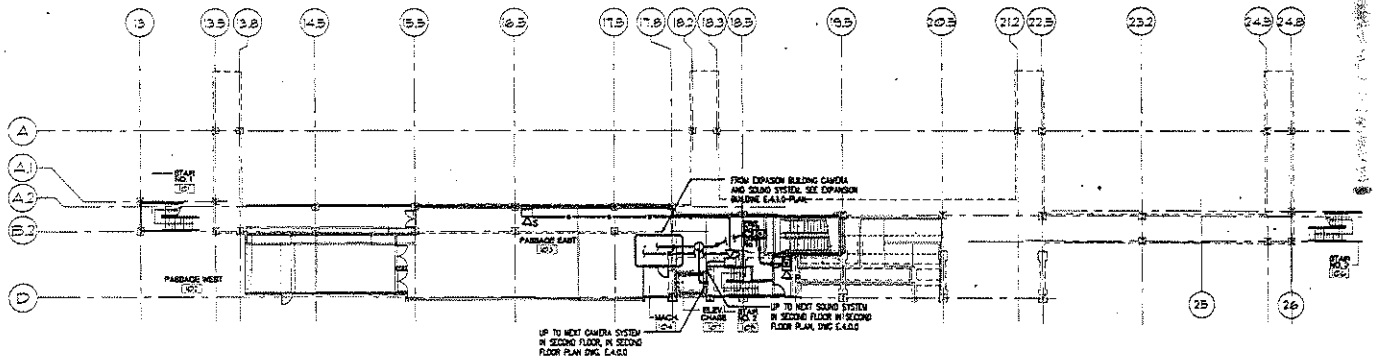
DATE: AUG/8/01

PROJECT No: 00-0652

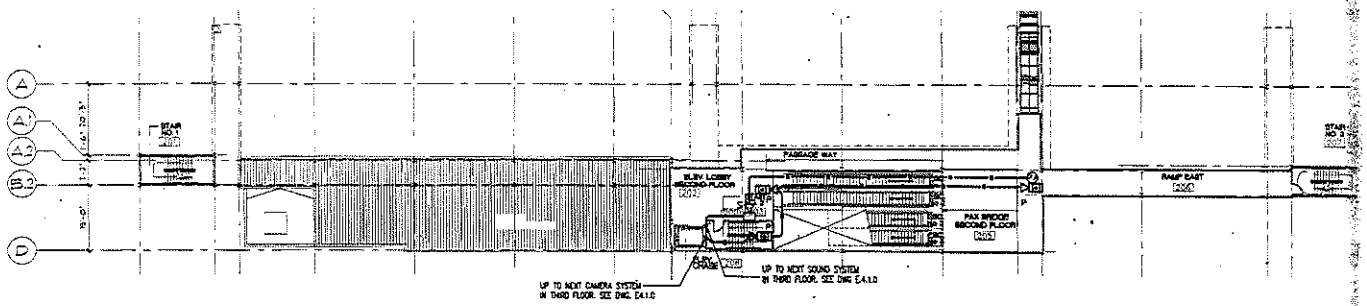
DRAWN BY: E. ROBLES A.SANTIAGO

CHECKED BY: O. TORRES

SHEET No: E3.01



FIRST FLOOR LIGHTING AND RECEPTACLE PLANS.



SECOND FLOOR LIGHTING AND RECEPTACLE PLAN

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

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SHEET TITLE:
FIRST AND SECOND SOUND AND CAMERA SYSTEM PLAN

REVISIONS:
AS-BUILT

SUBMITTAL:

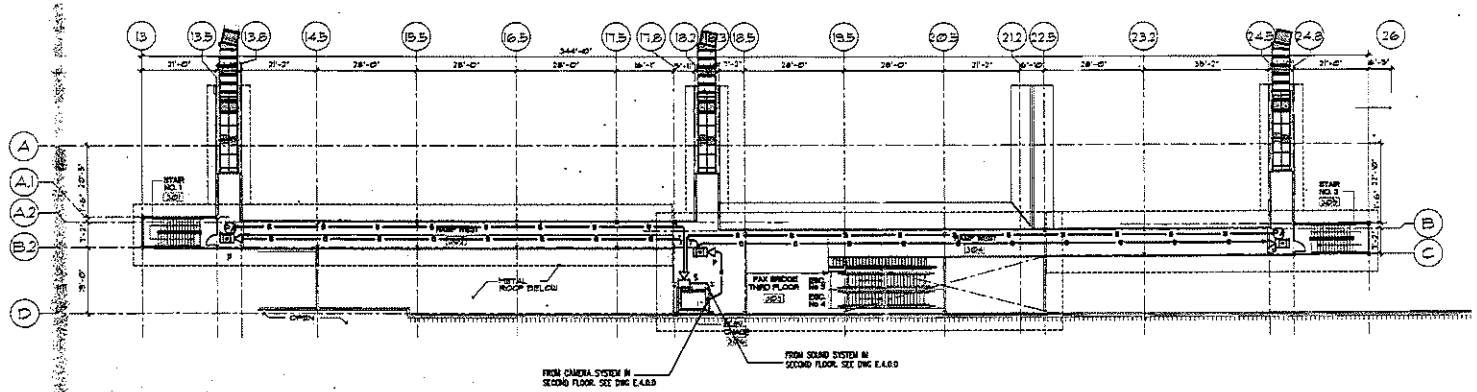
SCALE: 1/16"=1'-0"

DATE: SEPT/30/01

PROJECT No: 00-0652

DRAWN BY: E. ROBLES, J. SANTIAGO
CHECKED BY: G. TORRES

SHEET No: E.4.0.0



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

THIRD FLOOR PLAN

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SHEET TITLE:
THIRD FLOOR
SOUND AND CAMERA
SYSTEM PLAN

REVISIONS:
AS-BUILT

PANEL SCHEDULE

PANEL DESCRIPTION: EXPE
TYPE: SQUARE "D" TYPE NF

VOLTS: 480/277
PHASE: 3 Ø 4 W

14,000 SYM.R.C.
COPPER BUS

MAIN: 125A M.L.O.
FLUSH ☐ SURFACE ☐

CIRCUIT DESCRIPTION / DESIGNATION	CIRCUIT BREAKER TRIP	POLES	FRAME	VOLTS	CKT. NO.	A	B	C	CKT. NO.	CIRCUIT DESCRIPTION / DESIGNATION	CIRCUIT BREAKER TRIP	POLES	FRAME	VOLTS
BRIDGE LIGHTING	20	1	EGB	277	1				2	BRIDGE LIGHTING	20	1	EGB	277
BRIDGE LIGHTING	20	1	EGB	277	3				4	BRIDGE LIGHTING	20	1	EGB	277
BRIDGE LIGHTING	20	1	EGB	277	5				6	CORRIDOR LIGHTING	20	1	EGB	277
NIGHT LIGHTS	20	1	EGB	277	7				8	CORRIDOR LIGHTING	20	1	EGB	277
CORRIDOR LIGHTING	20	1	EGB	277	9				10	CORRIDOR LIGHTING	20	1	EGB	277
CORRIDOR LIGHTING	20	1	EGB	277	11				12	SPARE	20	1	EGB	277
CORRIDOR LIGHTING	20	1	EGB	277	13				14	SPARE	20	1	EGB	277
SPARE	20	1	EGB	277	15				16	SPARE	20	1	EGB	277
SPARE	20	1	EGB	277	17				18	SPARE	20	1	EGB	277
ESCALATOR #1	20	3	EGB	480	19				20					
					21				22	ELEVATOR	60	3	EGB	480
					23				24					
ESCALATOR #2	20	3	EGB	480	25				26					
					27				28	PAC-1	60	3	EGB	480
					29				30					
ESCALATOR #3	20	3	EGB	480	31				32	STAIRS LIGHTS	20	1	EGB	277
					33				34	STAIRS LIGHTS	20	1	EGB	277
					35				36	STAIRS LIGHTS	20	1	EGB	277
					37				38	SPACE				
ESCALATOR #4	20	3	EGB	480	39				40					
					41				42					

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SHEET TITLE:
SCHEDULES AND LEGEND

REVISIONS:
~~AS-BUILT~~

NO.	DATE	GENERAL REVISION	TB	CT

SUBMITTAL:

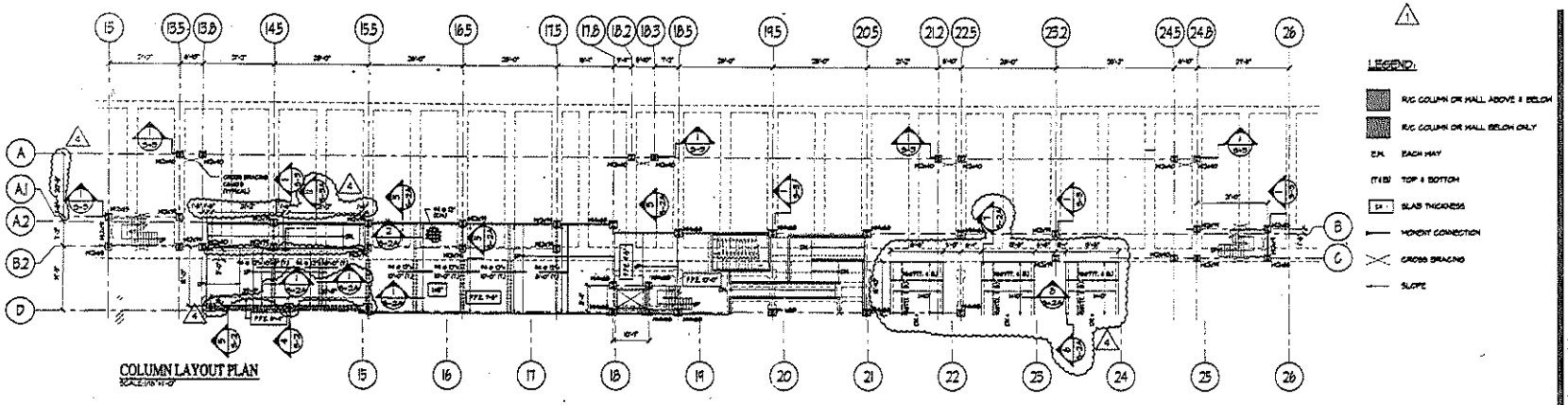
SCALE: 3/8"=1'-0"

DATE: JULY/24/01

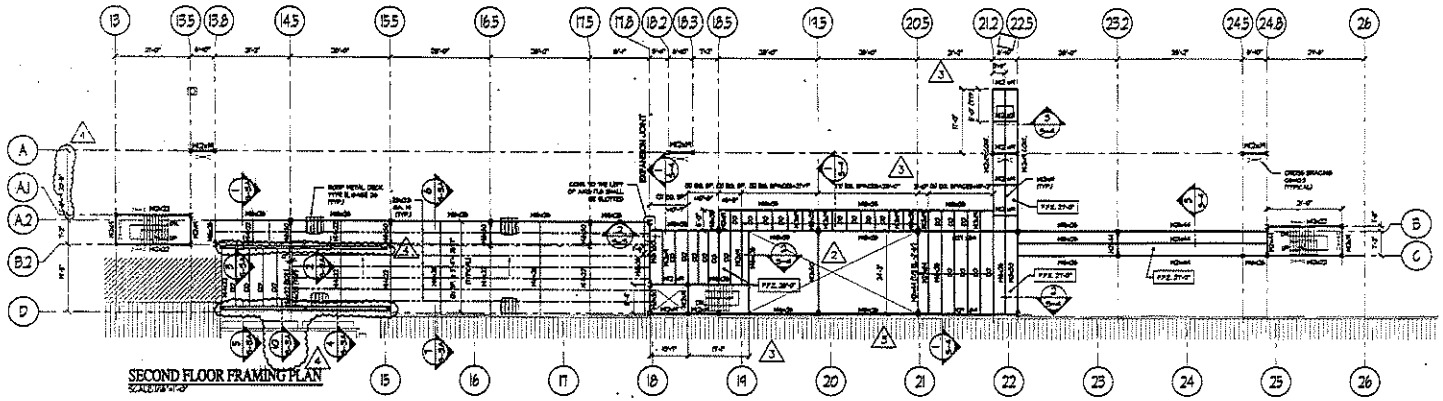
PROJECT No: 00-0652

DRAWN BY: E. MOSLES, A. SANTIAGO
CHECKED BY: C. TORRES

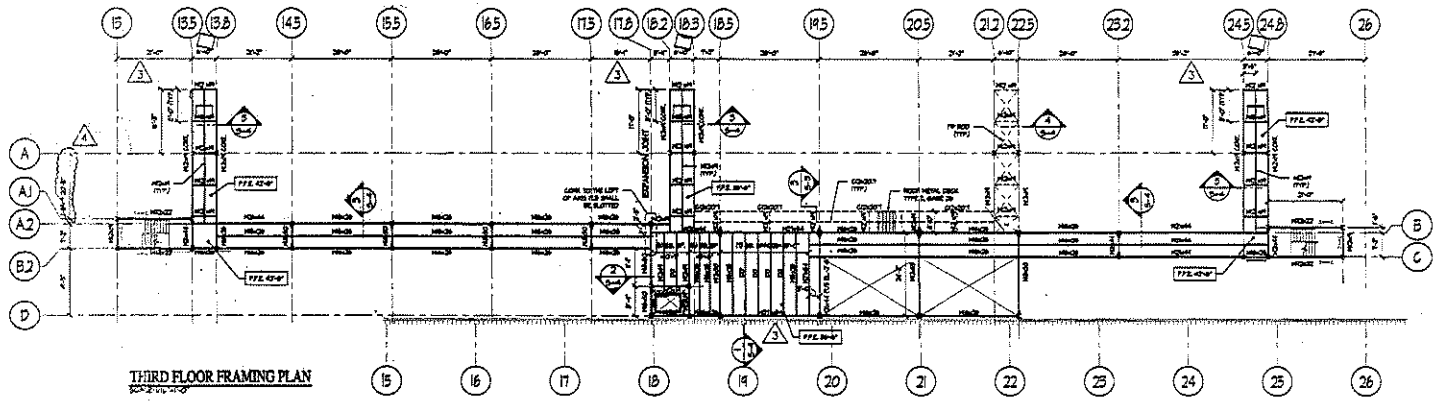
SHEET No: E.8.0.0



COLUMN LAYOUT PLAN



SECOND FLOOR FRAMING PLAN



THIRD FLOOR FRAMING PLAN

BEA ARCHITECTS ENGINEERS INTERIOR DESIGNERS PLANNERS CONSTRUCTION MANAGERS

BEA INTERNATIONAL

RAY ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

SHEET TITLE:
FOUNDATION PLAN
SECTIONS & DETAILS

AS-BUILT

REVISIONS:
04/09/01 REVISED AS NOTED
05/03/01 REVISED AS NOTED
06/14/01 REVISED AS NOTED
06/25/01 REVISED AS NOTED

SUBMITTAL:
03/13/01 GENERAL REVISION
05/11/01

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

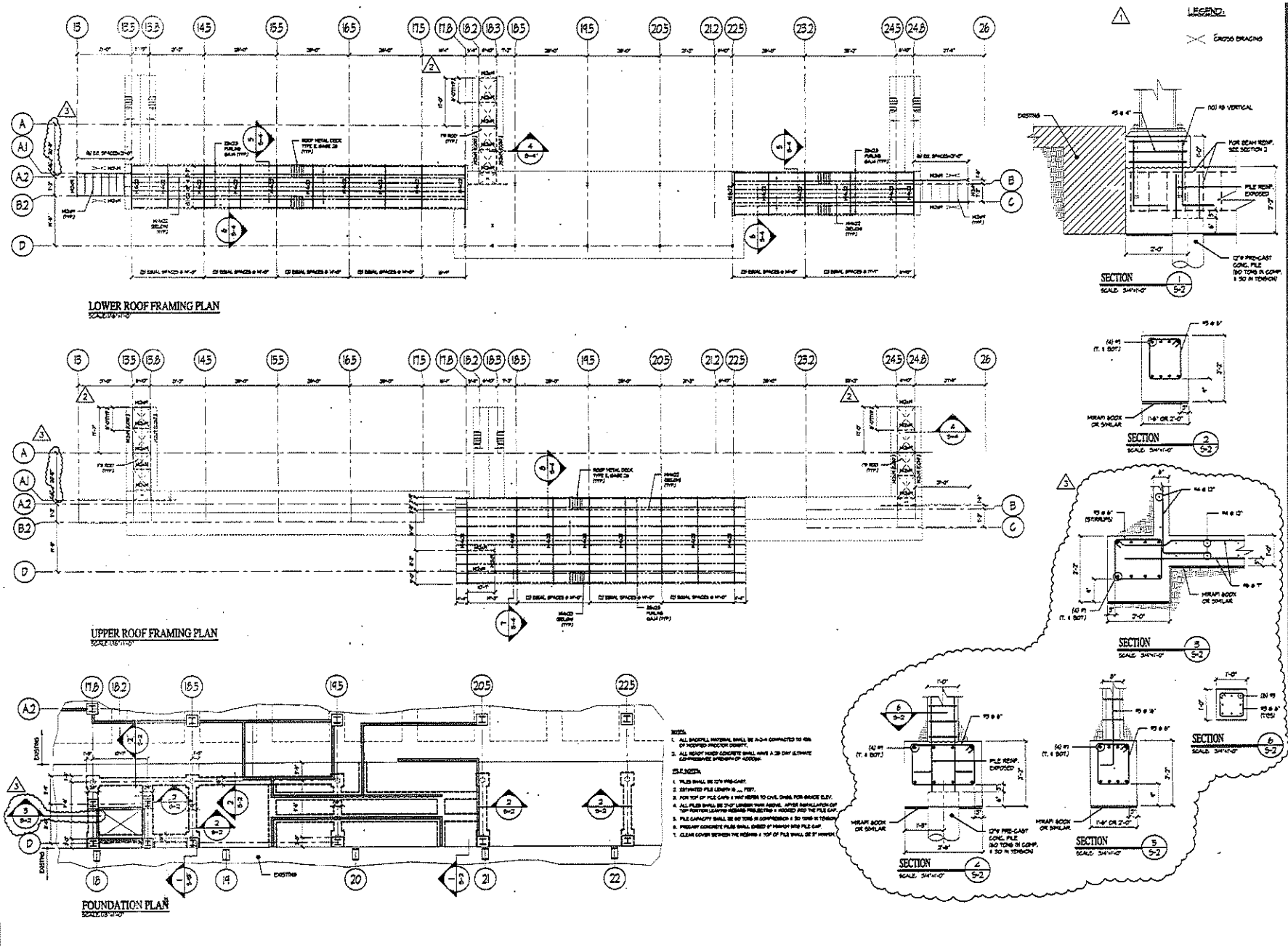
DATE:

PROJECT No: 00-119

DRAWN BY: J.Quevedo

CHECKED BY: C.Ortiz

SHEET No: S-1


LOWER ROOF FRAMING PLAN
UPPER ROOF FRAMING PLAN
FOUNDATION PLAN
LEGEND:
CROSS BRACING
SECTION
PAN AMERICAN TERMINAL
PASSENGER BRIDGE
SAN JUAN
PUERTO RICO
SHEET TITLE:
UPPER & LOWER ROOF FRAMING PLAN
AS-BUILT
REVISIONS:
04/09/01 REVISED AS NOTED
06/14/01 REVISED AS NOTED
06/25/01 REVISED AS NOTED
SUBMITTAL:
03/13/01 GENERAL REVISION
06/11/01
SCALE:
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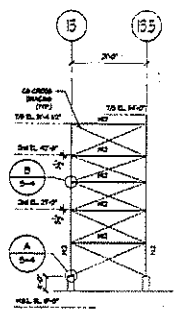
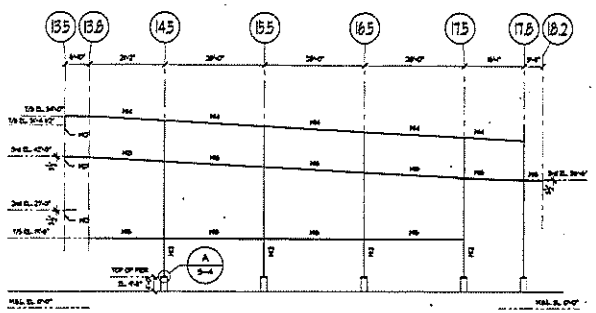
DATE:
PROJECT No:
00-119
DRAWN BY:
CHECKED BY:
SHEET No:
S-2



ELEVATION AT AXIS (A.1)
SCALE: 3/8"=1'-0"



ELEVATION AT AXIS (A.2)
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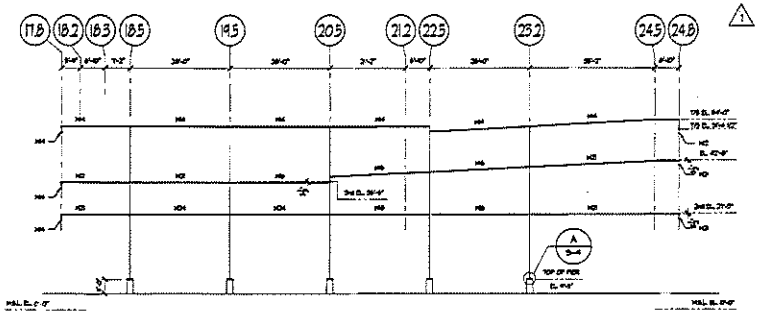

ELEVATION AT AXIS (B)
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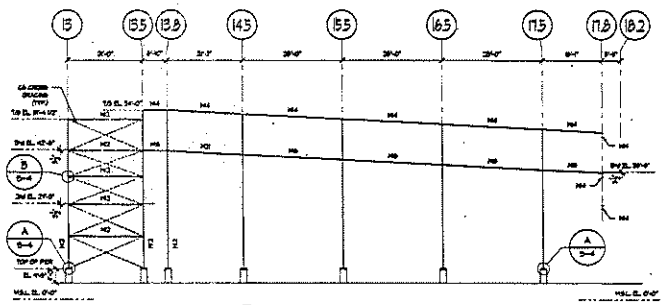
LEGEND:

CROSS BRACING



ELEVATION AT AXIS (B.2)
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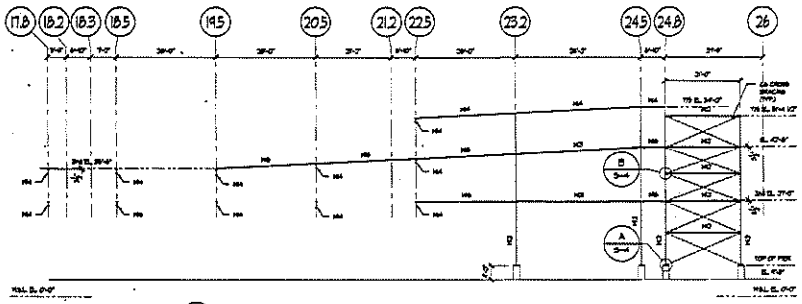
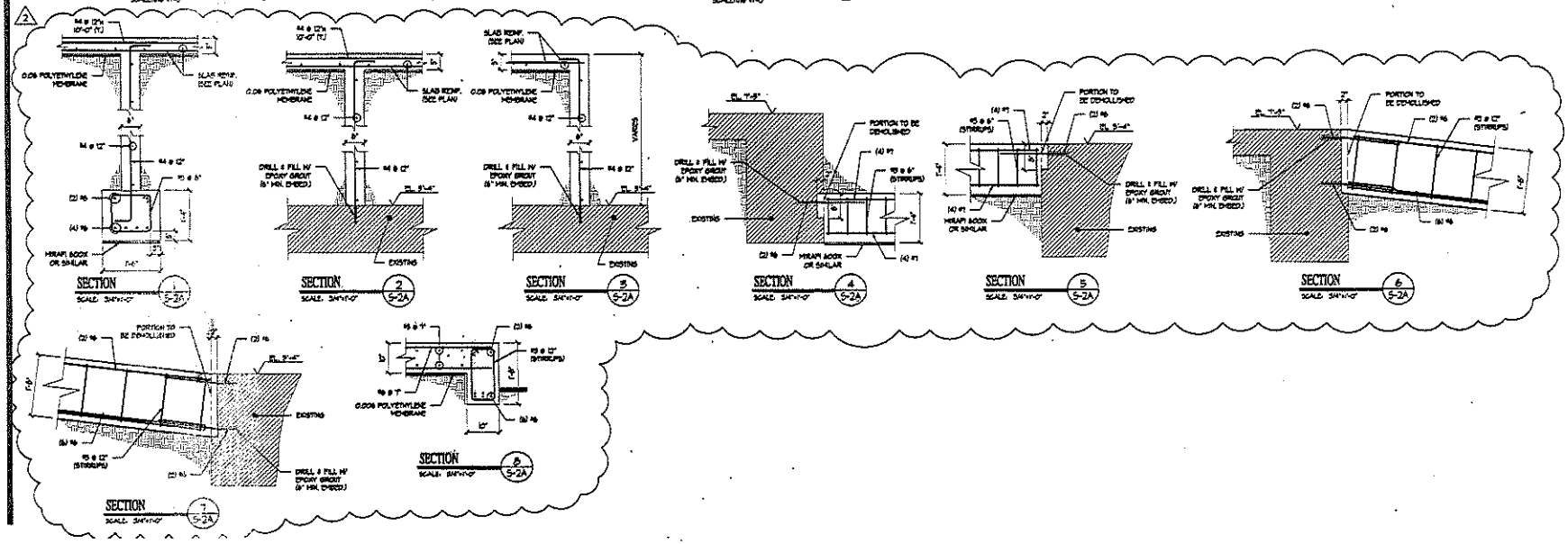


ELEVATION AT AXIS (C)
SCALE: 3/8"=1'-0"



SECTION 1 S-2A
SECTION 2 S-2A
SECTION 3 S-2A
SECTION 4 S-2A
SECTION 5 S-2A
SECTION 6 S-2A
SECTION 7 S-2A
SECTION 8 S-2A

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ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE

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05/30/01 GENERAL REVISION
05/11/01

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

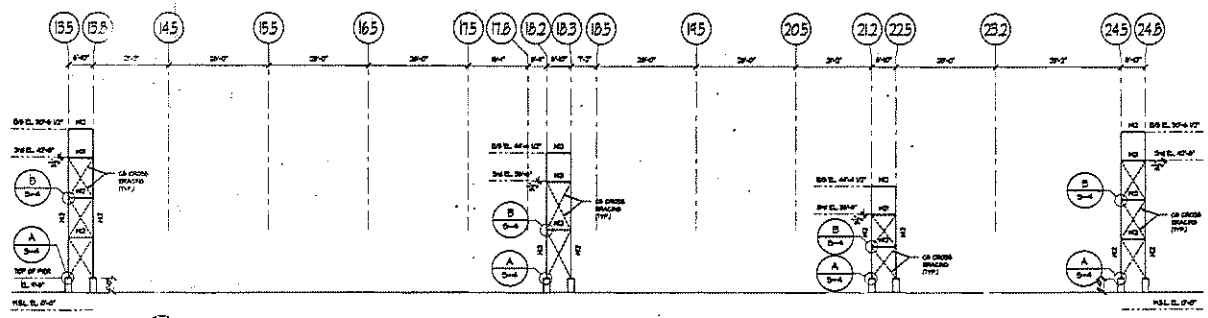
DATE:

PROJECT No: 00-119

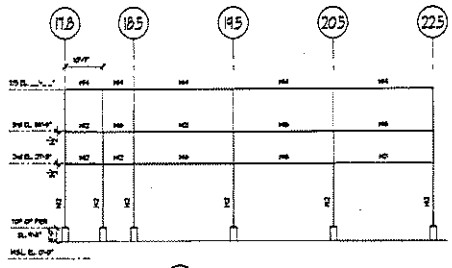
DRAWN BY: J.Quevedo
CHECKED BY: D.Ortiz

SHEET No:

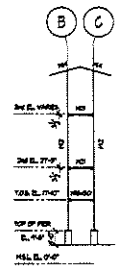
S-2A



ELEVATION AT AXIS (A)
SCALE: 1/8"=1'-0"



ELEVATION AT AXIS (D)
SCALE: 1/8"=1'-0"



ELEVATION AT AXIS (23.2)
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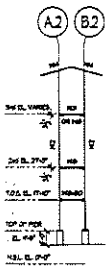
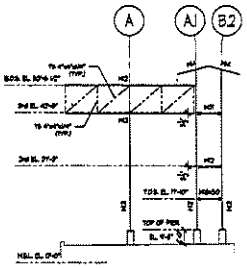
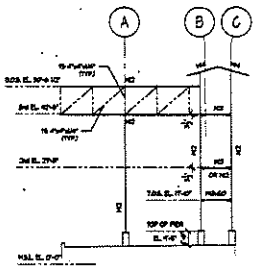


ELEVATION AT AXES (14.5) TO (17.5)
SCALE: 1/8"=1'-0"



ELEVATION AT AXIS (13.5)
SCALE: 1/8"=1'-0"



ELEVATION AT AXIS (24.8)
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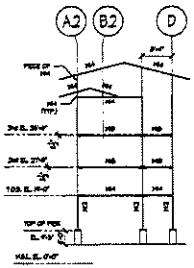
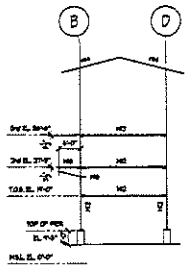
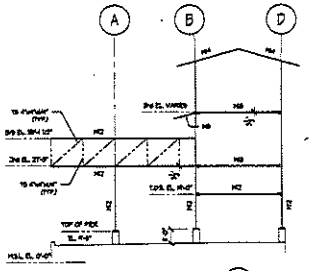


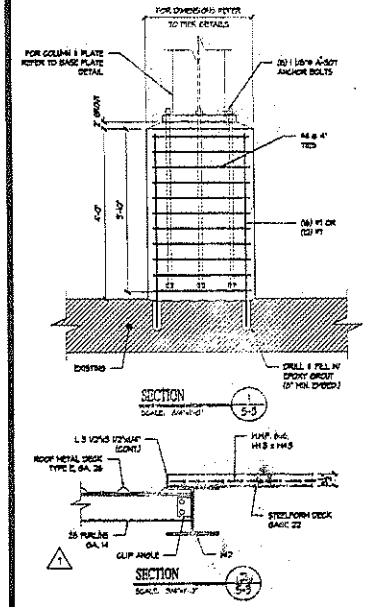
ELEVATION AT AXIS (17.8)
SCALE: 1/8"=1'-0"



ELEVATION AT AXES (19.5) & (20.5)
SCALE: 1/8"=1'-0"

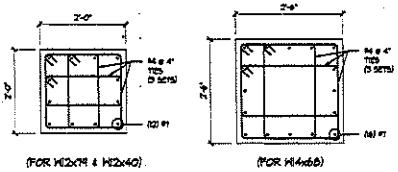


ELEVATION AT AXIS (22.5)
SCALE: 1/8"=1'-0"



SECTION (1/S-3)
SCALE: 3/4"=1'-0"

SECTION (1/S-3)
SCALE: 3/4"=1'-0"



(FOR W12x79 & W12x40)

(FOR W14x68)

PIER DETAILS
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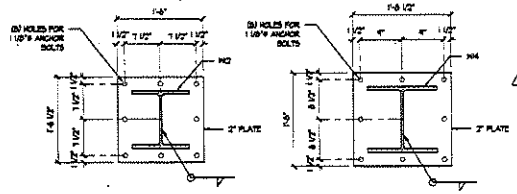

BASE PLATE DETAILS
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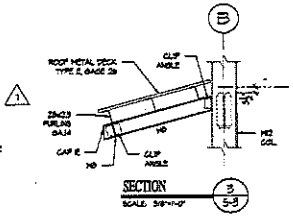

SECTION (3/S-3)
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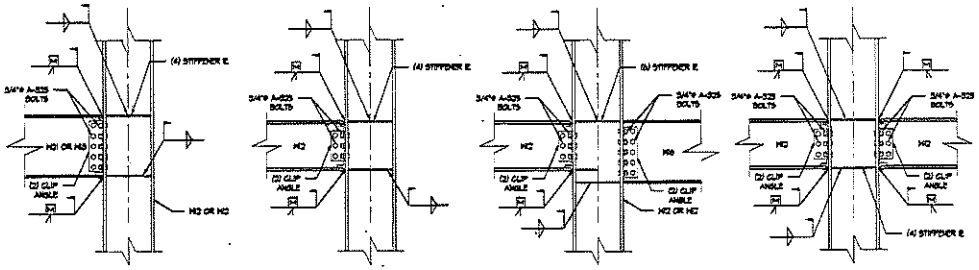

TYPICAL MOMENT CONNECTION DETAILS
SCALE: 3/4"=1'-0"

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03/13/01 GENERAL REVISION
08/11/01

SCALE: AS SHOWN

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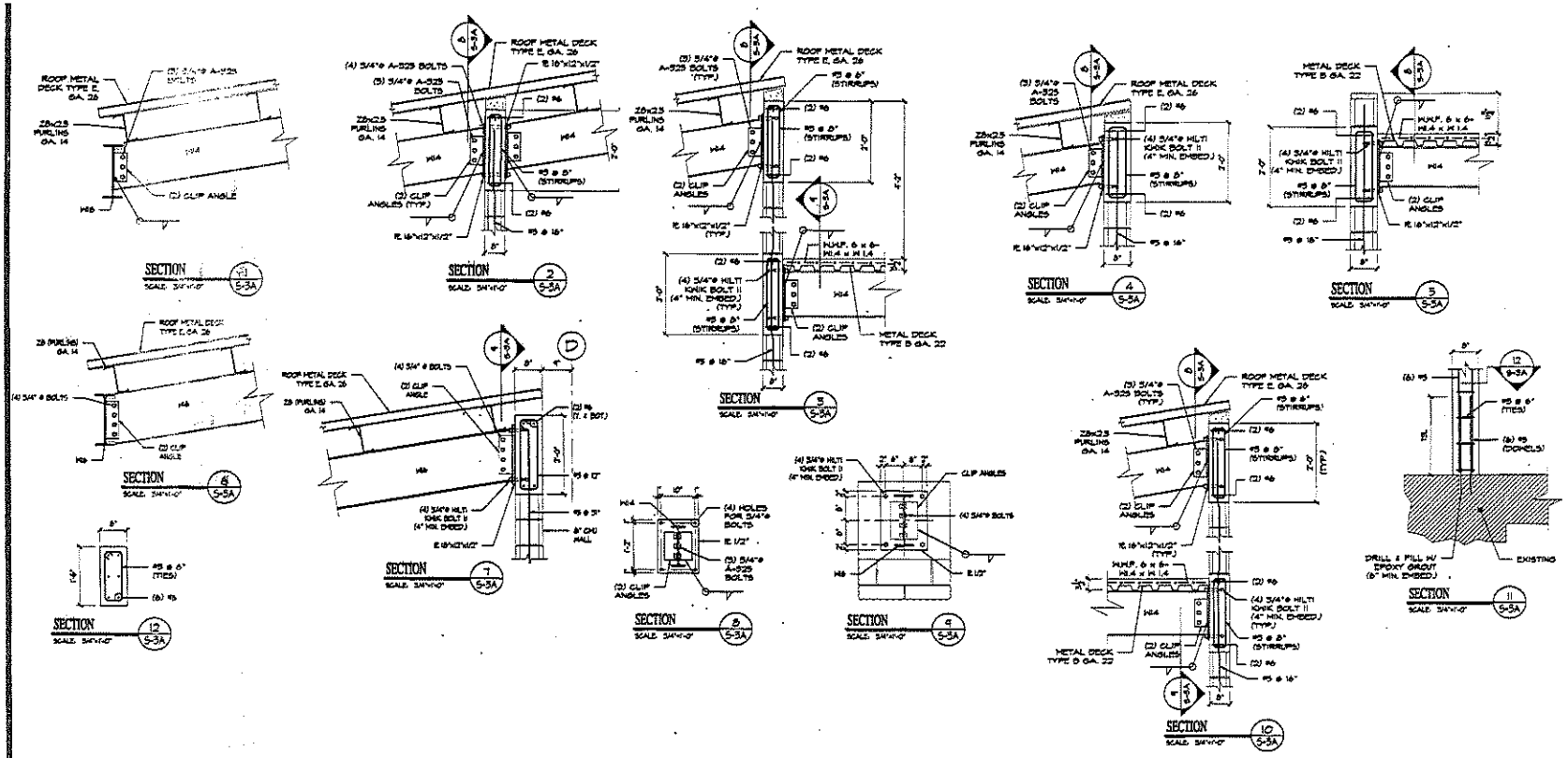
DRAWN BY: J.Quevedo
CHECKED BY: C.Ortiz

SHEET No: S-3



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SECTIONS & DETAILS

REVISIONS:
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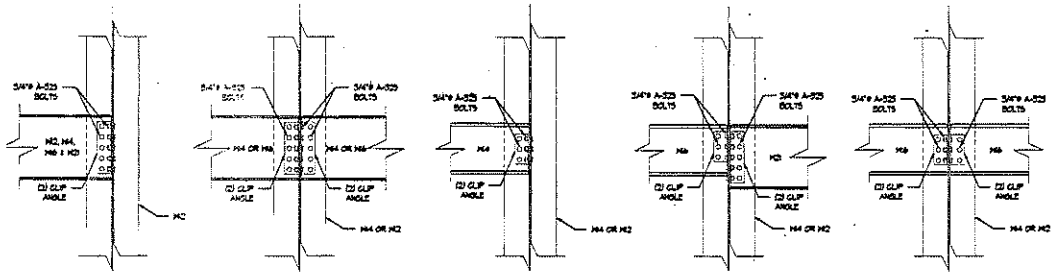
PROJECT No. 00-119

DRAWN BY: J.Quevedo
CHECKED BY: C.Ortiz

SHEET No:
S-3A



TYPICAL CONNECTIONS DETAILS
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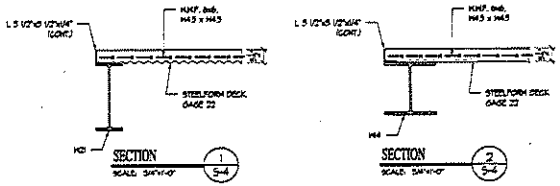

SECTION 1 / 5-4
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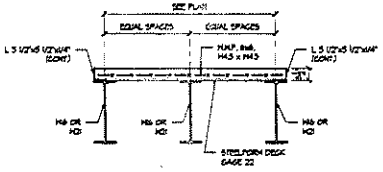
SECTION 2 / 5-4
SCALE: 3/4"=1'-0"



SECTION 3 / 5-4
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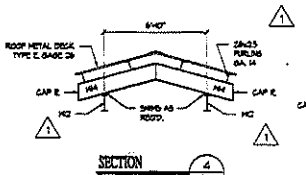

SECTION 4 / 5-4
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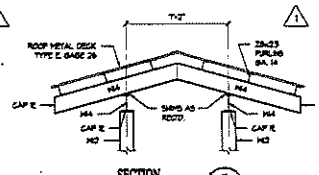

SECTION 5 / 5-4
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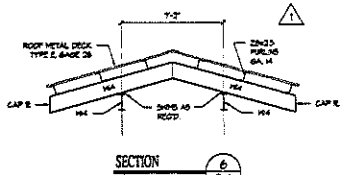

SECTION 6 / 5-4
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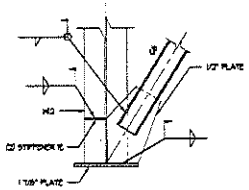

DETAIL A / 5-4
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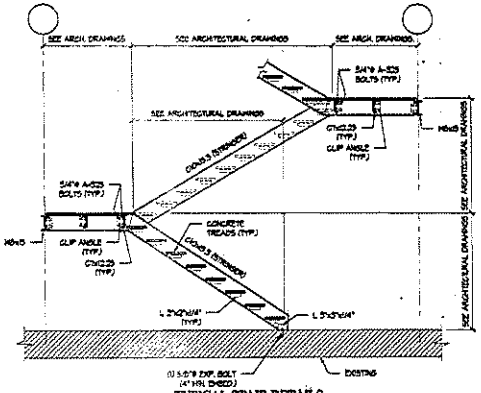

TYPICAL STAIR DETAILS
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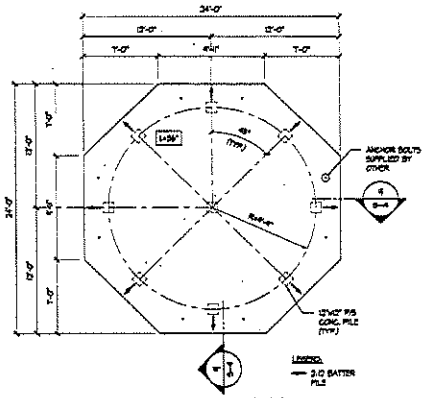
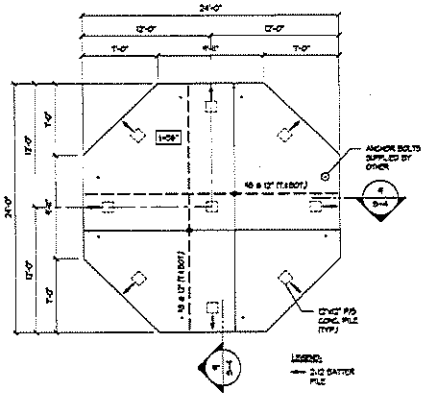


WATER TANK PILE LAYOUT PLAN
SCALE: 3/8"=1'-0"



WATER TANK FOUNDATION PLAN
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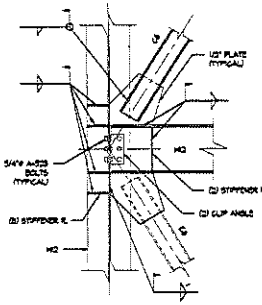
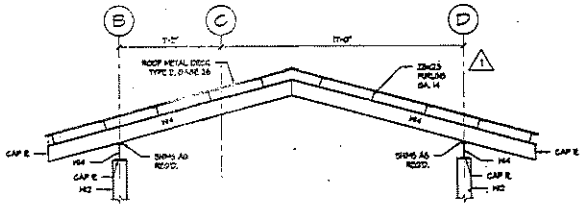


DETAIL B / 5-4
SCALE: 3/4"=1'-0"



SECTION 7 / 5-4
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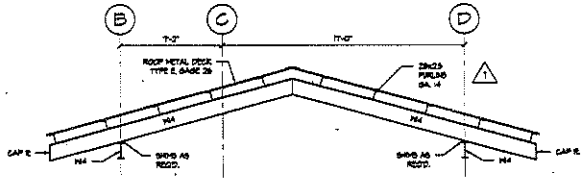

SECTION 8 / 5-4
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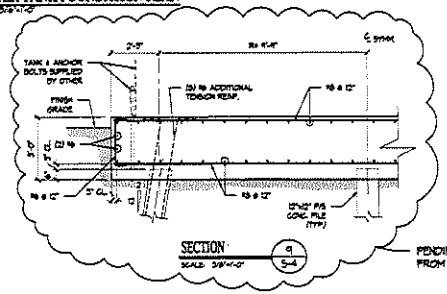

SECTION 9 / 5-4
SCALE: 3/8"=1'-0"

PENDING RECOMMENDATIONS FROM GEOTECHNICAL ENGINEER

BEA INTERNATIONAL
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631 PONCE DE LEON B.C. SUITE 202 SAN JUAN, P.R. 00907-3026 (787) 721-2350 FAX (787) 721-2353

RAY ARCHITECTS ENGINEERS
SUITE 1 CARRIBEAN PLAZA

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SCALE: AS SHOWN
DATE:
PROJECT No. 00-119
DRAWN BY: J.Quevedo
CHECKED BY: C.Ortiz

SHEET No.
S-4

GENERAL NOTES.

1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
3. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
4. NO OPENINGS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
5. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
6. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
7. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
8. HORIZONTAL MOVEMENT OF ANY HEAVY EQUIPMENT OVER STRUCTURAL FLOORS OR ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE ENGINEER SO AS NOT TO OVERLOAD THE STRUCTURE OR IN ANY OTHER WAY IMPAIR THE STRUCTURE. SAME PRECAUTION SHALL BE TAKEN FOR THE PILING OF CONSTRUCTION MATERIALS.
9. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
10. ALL STRUCTURES HAVE BEEN DESIGNED ACCORDING TO FINAL BEHAVIOR AND CONDITIONS. HOWEVER, DURING ERECTION OF SAME CERTAIN CONDITIONS CAN ARISE FOR WHICH THE BEHAVIOR OF THE STRUCTURE HAS NOT BEEN CONTEMPLATED. THEREFORE, THE CONTRACTOR SHOULD PROVIDE AT ALL TIME ADEQUATE SHORING AND REINFORCING UNTIL THE DESIGN CONDITIONS HAVE BEEN MET. IF THERE IS ANY DOUBT DURING ANY PHASE OF THE CONSTRUCTION, PLEASE CONSULT AND/OR NOTIFY THE STRUCTURAL ENGINEER.
11. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
12. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
13. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
14. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
15. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER OWNER OR HIS AUTHORIZED REPRESENTATIVE.
16. CONTRACTOR SHALL SUBMIT FOR OWNERS APPROVAL LOCATION AND DETAILS OF CONSTRUCTION JOINTS IN SLABS AND BEAMS, AND IN ANY OTHER STRUCTURAL MEMBERS.
17. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST THE DIMENSIONS ON ARCHITECTURAL PLANS BEFORE LAYING OUT THE WORK.
18. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IF ANY DISCREPANCY ARISES IN THE STRUCTURAL AND ARCHITECTURAL PLANS, THE ARCHITECTS AND ENGINEERS SHALL BE NOTIFIED IMMEDIATELY.
19. CONTRACTOR MUST PROVIDE, SET AND VERIFY DIMENSIONS AND LOCATION OF ALL ANCHORS, INSERTS BOLTS, SLEEVES, CONDUITS, ETC. SHOWN OR NOTED IN ARCHITECTURAL AND/OR MECHANICAL AND PLUMBING PLANS BEFORE THE CONCRETE IS POURED.
20. PROVISIONS FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI-315-95 BUILDING CODE AND/OR AISC SPECIFICATIONS AND CLARIFIED WITH THE STRUCTURAL ENGINEER.
21. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OTHERWISE.
22. IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS, THE STRUCTURAL ENGINEER SHALL BE CONSULTED.
23. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN OR OMITTED ON THE DRAWINGS.

REFERENCES.

DESIGN, FABRICATION & CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS AND PROVISIONS OF THE FOLLOWING CODES AND SPECIFICATIONS THEIR COMMENTARIES AND THE STANDARDS REFERENCED THEREIN.

1. AMERICAN CONCRETE INSTITUTE (ACI)
2. UNIFORM BUILDING CODE, 1997 (UBC)
3. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
4. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
5. AMERICAN WELDING SOCIETY (AWS)
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
7. STEEL DECK INSTITUTE (SDI)

DESIGN LOADS.

1. SEISMIC LOADS. (UBC-1997)
   A) ZONE = 3
   B) IMPORTANCE = 1.0
2. WIND LOADS. (ASCE-7-95)
   A) VELOCITY = 125 mph
   B) EXPOSURE = D
   C) IMPORTANCE = 0.87
   D) Kzt = 1.0
3. LIVE LOADS.
   A) PEDESTRIAN BRIDGE = 100 psf
   B) PUBLIC AREAS = 100 psf
   C) STAIRS/CORRIDORS = 100 psf
   D) ROOF = 20 psf

MATERIALS.

1. READY MIXED CONCRETE SHALL HAVE A 28-DAY ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI (MIN), CONFORMING TO ASTM C-94.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. ALL REINFORCING BARS SHALL BE HIGH TENSILE DEFORMED MEETING ASTM A-615 GRADE 60, UNLESS NOTED OTHERWISE ON SPECS AND/OR DRAWINGS.
5. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C-90, GRADE N, TYPE I, AND SHALL HAVE COMPRESSIVE STRENGTH OF 1500 PSI.
6. MORTAR SHALL CONFORM TO ASTM C-270.
7. MASONRY GROUT SHALL CONFORM TO ASTM C-476.
8. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 9 GAUGE SIDE RODS AND 9 GAUGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A-82.
9. STEEL SHALL CONFORM TO THE FOLLOWING GRADES.
   A) ROLLED STEEL SHAPES, PLATES AND BARS (SHO) (F_y = 50 ksi) — ASTM A572
   B) STRUCTURAL TUBE (F_y=46 Ksi) — ASTM A-500
   C) STEEL PIPE (F_y=35 Ksi) — ASTM A-53
   D) ANCHOR BOLTS AND UNFINISHED BOLTS — ASTM A-307
   E) BOLTS, NUTS AND WASHERS — ASTM A-325
   F) WELDING ELECTRODES (E70, CLASS E70XX) — ASTM A-233
   G) OUTRIGGERS (F_y = 50 ksi) — ASTM A-572
10. METAL STUDS SHALL CONFORM TO ASTM A-653.

CAST IN PLACE REINFORCED CONCRETE.

1. CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN PUERTO RICO.
2. CONCRETE ITEMS AND REINFORCEMENT SHALL BE ERECTED IN STRICT ACCORDANCE WITH OWNER APPROVED SHOP AND ERECTION DRAWINGS FOLLOWING THE DETAILS SHOWN ON PLANS.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
4. NO DEFECTIVE CONCRETE SHALL BE CORRECTED OR COVERED WITH MORTAR, PLASTER ETC. WITHOUT THE INSPECTORS' APPROVAL.
5. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AIR CONTENT SHALL BE BETWEEN 4 AND 8 PERCENT.
6. THE NOMINAL MAXIMUM AGGREGATE SIZE SHALL BE A MAXIMUM OF 3/4".
7. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A REGISTERED LICENSED ENGINEER. PHYSICAL TESTS RESULTS FOR COARSE AND FINE AGGREGATES SHALL ALSO BE SUBMITTED CERTIFIED BY A REGISTERED ENGINEER.
8. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE.

   UNFORMED SURFACE IN CONTACT WITH THE GROUND — 3 IN.

   FORMED SURFACES EXPOSED TO EARTH OR WEATHER.
   #6 BARS AND LARGER — 2 IN.
   #5 BARS AND SMALLER — 1-1/2 IN.

   FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER.
   BEAMS, GIRDERS, AND COLUMNS — 1-1/2 IN.
   SLABS, WALLS AND JOISTS.
   #11 BARS AND SMALLER — 3/4 IN.
   #14 AND #18 BARS — 1-1/2 IN.
9. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH ACI DETAILING MANUAL (SP66-88) AND THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY THE CRSI.
10. ALL REINFORCING SHALL BE SUPPORTED IN FORMS USING STEEL CHAIRS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (MSP).
11. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICE.

SPLICES TABLE (GRADE 60)

BAR SIZE	f'c (psi)	TENSION: TOP BARS SPLICE CLASS A	TENSION: TOP BARS SPLICE CLASS B	TENSION: OTHER BARS SPLICE CLASS A	TENSION: OTHER BARS SPLICE CLASS B	COMPRESSION: SPLICE
#4	3,000	24"	38"	22"	24"	12"
	4000	25"	33"	19"	25"	12"
	5,000	22"	29"	17"	22"	12"
#5	3,000	36"	47"	28"	36"	14"
	4000	31"	41"	24"	31"	12"
	5,000	28"	36"	22"	28"	12"
#6	3,000	43"	56"	33"	43"	17"
	4000	37"	48"	28"	37"	15"
	5,000	34"	43"	26"	34"	14"
#7	3,000	63"	81"	48"	63"	20"
	4000	54"	71"	42"	54"	17"
	5,000	49"	63"	37"	49"	16"

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

12. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
13. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
14. ALL SYMBOLS AND STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARD OF THE AMERICAN CONCRETE INSTITUTE (ACI-318-99).
15. ALL SLAB AND CORRESPONDING BEAMS, CURBS, OR APRONS SHALL BE POURED MONOLITHICALLY.
16. ALL REINFORCING, SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE WELL SECURED AND IN PLACE BEFORE CONCRETE IS POURED.
17. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH WHICHEVER IS GREATER.
18. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS.
19. PROVIDE DOWELS IN PEDESTAL AND/OR WALL FOOTINGS EQUAL IN GRADE, SPACING, SIZE AND NUMBER TO VERTICAL REINFORCEMENT, EXTENDING A TENSION SPLICE LENGTH INTO THE PEDESTAL AND/OR WALL AND 40 BAR DIAMETER INTO FOOTING. THE LATERAL EMBEDMENT SHALL BE EXTENDED AS NECESSARY TO PROVIDE A MINIMUM HORIZONTAL LEG RESTING ON FOOTING REINFORCEMENT EQUAL TO THE CORRESPONDING "B" LENGTH FOR THE BAR SIZE.
20. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES IN SUCH CASES, HOPPERS OR VERTICAL CHUTES OR TREMIES SHALL BE USED. THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED THE ABOVE REQUIREMENTS.
21. THE SIZE OF NAILS AND SIMILAR FASTENERS DRIVEN INTO CONCRETE SHALL BE SUCH AS NOT TO CRACK OR IMPAIR IT. NEVERTHELESS, IF THE CONCRETE IS DAMAGED, IT SHALL BE PROPERLY REPAIRED AFTER REMOVING THE DAMAGED PORTION AND SUITABLE JOINT SURFACE ARE PROVIDED.
22. ALL CAST IN PLACE REINFORCED CONCRETE STRUCTURAL MEMBERS SHALL BE PROPERLY CURED IN ACCORDANCE WITH ACI-318-99 CHAPTER V AND ACI 308.
23. ALL LAPPING, BENDING AND PLACING OR REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318-99 BUILDING CODE.
24. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
25. ALL FORMWORK FOR FLEXURAL MEMBERS SHALL BE BUILT WITH A CAMBER CORRESPONDING TO ITS WON DEFORMATION PLUS THE STRUCTURE DEAD LOAD DEFORMATIONS. IN DETERMINING THE AMOUNT OF CAMBER, THE CONTRACTOR SHALL HAVE THE ASSISTANCE OF THE DESIGNER WHERE SO REQUESTED.
26. NO JOINT, OPENING, SLOT OR GROOVE OTHER THAN THAT SHOWN ON DRAWINGS SHALL BE PERMITTED WITHOUT PREVIOUS APPROVAL BY THE ENGINEER. ALL CONSTRUCTION JOINT SURFACES SHALL BE CLEANED AND ROUGHENED IMMEDIATELY BEFORE CONCRETING AND TREATED AS INSTRUCTED IN THE "ACI MANUAL OF CONCRETE PRACTICE".
27. CONDUIT OF PIPE SIZE (O.D.) SHALL NOT EXCEED 30 PERCENT OF TOTAL SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP & BOTTOM REINFORCEMENT, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
28. WATER-CEMENT RATIO REQUIREMENTS FOR DIFFERENT COMPRESSIVE STRENGTHS OF CONCRETE.

COMPRESSIVE STRENGTH AT 28 DAYS, psi	WATER-CEMENT RATIO BY WEIGHT: NON-AIR ENTRAINED CONCRETE	WATER-CEMENT RATIO BY WEIGHT: AIR ENTRAINED CONCRETE
6,000	0.41	—
5,000	0.48	0.40
4,500	0.50	0.42
4,000	0.55	0.46
3,500	0.58	0.50
3,000	0.62	0.56
2,500	0.72	0.64

29. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCEMENT BAR WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED U.N.O.

REINFORCED MASONRY.

1. REINFORCED CONCRETE MASONRY SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH, f'm, OF 1500 PSI. VERIFICATION OF THE DESIGN STRENGTH SHALL BE BY THE UNIT TEST METHOD.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
3. ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.
4. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE (1) HORIZONTAL IN SIX (6) VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
5. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
6. SPLICED REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER. SPLICED BARS SHALL BE WIRED TOGETHER.
7. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 DIAMETERS OF THE REINFORCING BAR, NOR 10 FEET.
8. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
9. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2-1/2 x 3".
10. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
11. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
12. ALL BOLTS, ANCHORS, ETC. INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION.
13. REINFORCED MASONRY HAS BEEN DESIGNED USING VALUES FOR CONSTRUCTION WITH SPECIAL INSPECTION.
14. REINFORCED MASONRY WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS.
15. CONCRETE MASONRY UNITS SHALL BE LAID WITH FULL MORTAR BEDDING.
16. CONCRETE MASONRY UNITS SHALL BE LAID IN A RUNNING BOND PATTERN.
17. ALL BLOCK WALLS SHALL BE ANCHORED TO THE FLOOR GROUND SLAB BY MEANS OF #3 BARS HOOKED A MINIMUM OF 6 INCHES INTO THE SLAB AND SPACED A MINIMUM OF 16 INCHES OR #4 BARS HOOKED A MINIMUM OF 6 INCHES INTO THE SLAB AND SPACED A MINIMUM OF 32 INCHES.
18. HORIZONTAL JOINT REINFORCEMENT SHALL BE INSTALLED IN THE TWO JOINTS IMMEDIATELY BELOW AND ABOVE WINDOW AND DOOR OPENING AND EVERY OTHER COURSE SPLICED 1' WITH CORRESPONDING DOWELS INTO THE STRUCTURE.
19. FOR STRUCTURAL OR ARCHITECTURAL CONCRETE ELEMENTS WHICH DIMENSIONS OR REINFORCEMENT ARE NOT SHOWN ON STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL ASSUME THE DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS FOR THOSE, AND UTILIZE THE MINIMUM REINFORCEMENT REQUIRED BY ACI-318-99 BUILDING CODE FOR THE TYPE OF ELEMENT CONSIDERED FOR ESTIMATING PURPOSE.
20. GROUT SHALL BE PLACED BY THE LOW LIFT METHOD, MAXIMUM HEIGHT OF LIFT WITHOUT CLEANING OUT SHALL BE 4 FEET.
21. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS.
22. PROVIDE A MINIMUM OF 1/2 IN. GROUT BETWEEN MAIN REINFORCEMENT AND MASONRY UNITS.

STRUCTURAL STEEL.

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE 1992, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS AND/OR DRAWINGS.
2. THE STEEL STRUCTURE IS A PARTIAL-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROUGH DECK AND ATTACHMENT TO THE EXISTING MASONRY AND CONCRETE WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETED AND ARE CAPABLE OF PROVIDING THIS SUPPORT.
3. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTIONS. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATORS CONNECTION SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL.
4. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWING(S) PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
5. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. UNLESS NOTED OTHERWISE, ANCHOR BEAMS TO MASONRY WITH TWO (2) 3/4" DIAMETER ANCHOR BOLTS WITH 4" HOOK AND 1'-0" EMBEDMENT.
6. STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. SEE QUALITY ASSURANCE GENERAL NOTES AND PROJECT SPECIFICATIONS. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.
7. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
8. STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, (AWS) REQUIREMENTS.
9. ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THRU 607 OF THE AWS D1.0-84 CODE FOR WELDING IN BUILDING CONSTRUCTION.
10. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
11. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
12. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR REVIEW AND APPROVAL OR REJECTION PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.
13. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUMS SHALL APPLY.
    A) WELD SIZE — 5/16"
    B) BOLT DIAMETER — 3/4"
    C) PLATE THICKNESS — 3/8"
    D) CLIP ANGLE THICKNESS — 5/16"
    E) BOLTS/ANGLE LEG — 3"
14. ONE BOLT ASSEMBLY SHALL CONSIST OF.
    A) A HEAVY HEX STRUCTURAL BOLT
    B) A HEAVY HEX NUT
    C) A HARDENED STEEL WASHER
15. MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE PLASTIC MOMENT CAPACITY OF THE BEAM U.N.O.
16. COLUMN STIFFENERS SHALL BE PROVIDED AS REQUIRED TO DEVELOP THE PLASTIC MOMENT CAPACITY OF THE CONNECTED BEAM U.N.O.
17. FRAMED BEAM CONNECTIONS SHALL BE OF A TYPE SIMILAR TO AND OF EQUAL CAPACITY AS THOSE SHOWN IN TABLES II, III AND IV OF THE AISC MANUAL, AND SHALL DEVELOP THE SHEAR CAPACITY (W/2L) GIVEN IN THE UNIFORM LOAD CONSTANTS TABLE.
18. CONNECTIONS SHALL BE DESIGNED AS SLIP CRITICAL, WITH BOLT LENGTH AS PER BEARING TYPE X.
19. VERTICAL BRACING CONNECTIONS SHALL DEVELOP THE TENSION CAPACITY OF THE CONNECTED MEMBER.
20. HORIZONTAL BRACING CONNECTIONS SHALL DEVELOP THE COMPRESSION CAPACITY OF THE CONNECTED MEMBER.

METAL ROOF DECK.

1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENT OF THE STEEL DECK INSTITUTE SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK (1986).
2. METAL ROOF DECK SHALL BE CONFIGURATION, DEPTH AND MINIMUM GAGE AS SHOWN ON THE DRAWINGS. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWINGS AS A MINIMUM. SEE ROOF PLAN NOTES.
3. DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK.
4. METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
5. METAL ROOF DECK WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND SPECIFICATIONS.
6. FOR USE S DIAPHRAGM, CONNECTION SHALL BE #12 SCREWS ON 30/4 PATTERN, WITH #10 STITCH SCREWS IN SIDELAPS.
7. UPLIFT CONNECTION SHALL BE CHECKED PER DESIGN LOADS AND SHALL PROVIDE A MINIMUM OF CLASS(1-90) ATTACHMENT, AS DEFINED BY FACTORY MUTUAL.

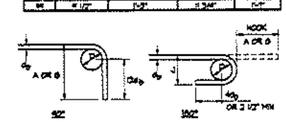
FOUNDATIONS.

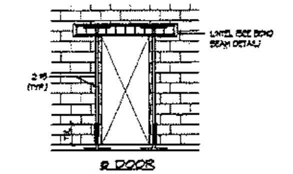
1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE "GEOTECHNICAL EVALUATION FOR PROPOSED PAN AMERICAN TERMINAL AT ISLA GRANDE, SAN JUAN, P.R. BY GEO ENGINEERING, DATED JULY 24, 2000.
2. FOUNDATION WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTION, AS PER TECHNICAL SPECIFICATIONS FOR THE PROJECT.
3. ALL BACKFILL SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY.
4. ALL EXCAVATIONS AND BACKFILLS SHALL BE INSPECTED FOR COMPLIANCE WITH THE SUBSOIL REPORT RECOMMENDATIONS.

△1

END HOOKS FOR ALL GRADES

BAR SIZE	FINISHED BEND DIAMETER "D", IN.	180° HOOKS: A OR G	180° HOOKS: J	90° HOOKS: A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"

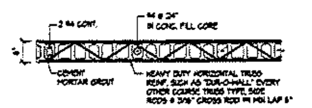




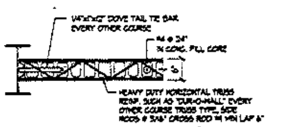
OPENING NOTES.

1. LINTEL SHALL EXTEND UNTIL IT BEARS ON 1/2 OF (A) CMU (MIN. 8").
2. LINTELS FOR OPENINGS LARGER THAN 8' SHALL BE SHORED.
3. CMU CELL(S) ADJACENT TO OPENINGS SHALL BE FULLY GROUTED, AND REINFORCED.
4. HORIZONTAL JOINT REINFORCEMENT SHALL BE @ 8" IN 2 JOINTS ABOVE LINTELS AND BELOW SILLS. ADDITIONAL REINFORCEMENT SHALL EXTEND 2' BEYOND OPENINGS.

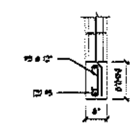
TYPICAL REINF. DETAIL @ CMU OPENINGS
SCALE: 3/4"=1'-0"



ENDS OF CMU WALL REINF. DETAIL
SCALE: 3/4"=1'-0"



CMU WALL ANCHORAGE DETAIL
SCALE: 3/4"=1'-0"



BOND BEAM DETAIL
SCALE: 3/4"=1'-0"

BEA INTERNATIONAL — ARCHITECTS, ENGINEERS, INTERIOR DESIGNERS, PLANNERS, CONSTRUCTION MANAGERS

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RAY — ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL PASSENGER BRIDGE

SAN JUAN
PUERTO RICO

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SHEET TITLE: STRUCTURAL NOTES & MISCELLANEOUS DETAILS

REVISIONS:
△1 08/08/01 REVISED AS NOTED

AS-BUILT

SUBMITTAL:
03/13/01 GENERAL REVISION
05/11/01

SCALE: AS SHOWN

DATE:

PROJECT No: 00-119

DRAWN BY: J.Quevedo | CHECKED BY: C.Ortiz

SHEET No: S-5

GOBIERNO DE PUERTO RICO
Departamento de Desarrollo Económico y Comercio
Oficina de Gerencia de Permisos

Número de Caso:
2021-410531-DEC-101912

Certificación de Cumplimiento Ambiental por Exclusión Categórica

Demolición Parcial Rampa en Muelle Panamericano I

Fecha de Expedición:

17/NOV/2021

Datos de Localización

De conformidad con las disposiciones contenidas en las leyes y los reglamentos vigentes, se expide la presente Certificación de Exclusión Categórica para la acción(es) antes descrita(s):

Dirección Física:

Dirección: BO ISLA GRANDE CAÑO SAN ANTONIO
AVE. FDEZ JUNCOS SAN JUAN PR
Municipio: San Juan
Estado: Puerto Rico
Código Postal: 00603

Dueño:

PUERTO RICO PORTS AUTHORITY

Sometido por:

PUERTO RICO PORTS AUTHORITY

Calificación

Distrito(s) de Calificación: DE (98%), DV (1%), CT-1 (1%)

Distrito en el Mapa de Inundabilidad: X (93.1%), VE (3.4%), AE (1.6%), AE (0.8%), VE (0.5%), AE (0.3%), AE (0.3%), 0.2 PCT ANNUAL CHANCE FLOOD HAZARD (0.1%)
Tipo de Suelo: SNS (97.9%)

Número(s) de Catastro:

040-000-003-01

Datos de determinación

Exclusión Categórica

Números de exclusión categórica aplicables de acuerdo a la OA-2021-02 del DRNA :

12

Fecha de Expedición:

17/NOV/2021

Condiciones Generales

De acuerdo con la solicitud de esta Determinación, se certificó cumplimiento con los siguientes requisitos, cuyo incumplimiento podrá repercutir en la revocación de esta Determinación:

1. Las actividades de uso o de construcciones livianas de nuevas estructuras no están ubicadas o desarrolladas en:

a. Areas especiales de riesgo de inundaciones, derrumbes o marejadas.

b. Areas en las que la Junta de Calidad Ambiental (JCA) u otras agencias gubernamentales estatales o federales hayan determinado que existe un grado de contaminación que excede el permitido por los reglamentos vigentes.

c. Areas ecológicamente sensitivas o protegidas, según establecido por el Departamento de Recursos Naturales y Ambientales (DRNA), en las que existan especies únicas de fauna o flora o que estén en peligro de extinción o en las que puedan afectarse ecológicamente sistemas naturales o artificiales, ya sea en forma directa o indirecta.

d. Areas en las que existan problemas de infraestructura o de deficiencias en los sistemas de servicios de suministro de agua potable, disposición de las aguas sanitarias, suministro de energía eléctrica o capacidad vial para el manejo adecuado del tránsito de vehículos de motor.

e. Areas que constituyan yacimientos minerales, conocidos o potenciales.

f. Areas en las que existen yacimientos arqueológicos o de valor cultural, según determinado por el Instituto

de Cultura Puertorriqueña (ICP).

g. Areas de topografía escarpada, en cuencas hidrográficas donde se puedan afectar fuentes de abasto de agua potable.

h. Cualquier otra acción que la JCA haya establecido mediante Resolución.

2. No descargarán contaminantes a cuerpos de agua, ni generará desperdicios peligrosos o emisiones al aire que excedan dos (2) toneladas al año de contaminantes de aire criterio, o cinco (5) toneladas de cualquier combinación de contaminantes criterios, ni emitirá al aire contaminantes peligrosos o tóxicos u olores objetables.

3. La disposición o descarga de las aguas usadas se realizará mediante acometidas a un sistema sanitario existente, lo cual requerirá la obtención del endoso de la AAA previo a la solicitud de permisos de construcción.

4. Que existe la infraestructura necesaria (agua potable y alcantarillado sanitario suministrado por la AAA, energía eléctrica, alcantarillado pluvial, vías de acceso) para servir a la operación del proyecto o actividad propuesta, con excepción de los proyectos agrícolas que se ubican por regla general en las áreas rurales, así como las residencias unifamiliares asociadas en las que las instalaciones de esa naturaleza son limitadas.

5. La operación de la actividad no afectará áreas residenciales o zonas de tranquilidad por contaminación sónica según establecido por el Reglamento para el Control de la Contaminación por Ruido.

6. Que el desarrollo de la instalación comercial, industrial, de servicio, institucional y de desarrollo de terrenos para uso turístico y proyectos recreativos no excede de cinco mil (5,000) pies cuadrados de conStrucción en área total de ocupación y área bruta de piso y que cumple con las condiciones de ubicación y operación establecidas por la OGPe u otra agencia con jurisdicción, según sean aplicables.

7. El uso de edificios o estructuras existentes para facilidades comerciales, almacenes y usos industriales o de servicios no excederán de cien mil (100,000) pies cuadrados en área total de ocupación y área bruta de piso. Dicha operación deberá cumplir con las condiciones de ubicación y operación establecidas por la OGPe u otra agencia con jurisdicción, según sean aplicables, y las establecidas para las exclusiones categóricas en este Reglamento.

8. Para la ejecución o desarrollo de las acciones aprobadas como exclusiones categóricas, se requerirá la obtención de los permisos aplicables de las agencias gubernamentales para las etapas de construcción y operación.

9. La acción no ha sido fragmentada o segmentada para fines de la evaluación y será determinación de la agencia proponente si la misma satisface o no los requisitos para ser considerada y ejecutada bajo una exclusión categórica.

10. Que ha cumplido con el requisito de publicación de un Aviso Público de conformidad con la Regla 122 del Reglamento de Evaluación y Trámite de Documentos Ambientales de la JCA, en el caso que la acción propuesta esté relacionada al uso u otorgamiento de fondos federales que requieran un proceso de evaluación parecido al de NEPA (NEPA-Like Process).

1. Además del cumplimiento con los requisitos establecidos en la Parte III, Inciso A, Sub incisos 1 al 8, sólo se aprobará la acción mediante Exclusión Categórica si la misma cumple con lo siguiente:

1. No descargará contaminantes a cuerpos de agua que requieran la aplicación de un nuevo permiso federal de descarga bajo el programa conocido como el National Permit Discharge Elimination System (NPDES), o de una modificación al existente ni generará desperdicios peligrosos. En el caso de los edificios o esctructuras existentes que formen parte de un Parque Industrial propiedad de la Compañía de Fomento Industrial, la acción propuesta no estará sujeta a esta restricción. La acción propuesta no generará emisiones de contaminantes al aire que excedan dos (2) toneladas al año de cada contaminante atmosférico criterio o cinco (5) toneladas de cualquier combinación de contaminantes atmosféricos criterios, ni emitirá al aire contaminantes peligrosos o tóxicos u olores objetables. Una vez alcanzados estos límites de emisión mediante una o varias solicitudes presentadas a través de esta Orden Administrativa, en un periodo de cinco

Certificación de Cumplimiento Ambiental por Exclusión Categórica

(5) años de haberse alcanzado dichos límites no podrá presentarse una nueva solicitud de exclusión categórica para añadir o modificar fuentes adicionales que conlleven aumentar los límites de emisión de una fuente existente. En el caso de los edificios o estructuras existentes que formen parte de un Parque Industrial propiedad de la Compañía de Fomento Industrial, la acción propuesta no generará emisiones de contaminantes al aire que excedan diez (10) toneladas al año de cada contaminante atmosférico criterio o cero punto veinticinco (0.25) toneladas de cualquier contaminante atmosférico peligroso (HAP, por sus siglas en inglés) o una (1) tonelada de cualquier combinación de contaminantes atmosféricos peligrosos. Una vez alcanzados estos límites de emisión mediante una o varias solicitudes presentadas a través de esta Orden Administrativa, en un periodo de cinco (5) años de haberse alcanzado dichos límites no podrá presentarse una nueva solicitud de exclusión categórica para añadir o modificar fuentes adicionales que conlleven aumentar los límites de emisión de una fuente existente.

2. No se fragmentará o segmentará la acción propuesta en diferentes etapas con el fin de evadir los requerimientos de un documento ambiental.

3. En el caso de que la acción propuesta esté afectada por el uso u otorgamiento de fondos federales que requieran un proceso de evaluación parecido al de NEPA (NEPA-Like Process), el proponente deberá asegurarse que ha cumplido con los requisitos del reglamento de documentos ambientales del DRNA.

4. La acción cumple con los niveles de ruido y emisión de luz artificial, según establecido por los respectivos reglamentos promulgados por el DRNA o cualquier legislación aplicable.

5. No se realizará actividad alguna dentro de un cuerpo de agua, a menos que sea una obra de dragado de mantenimiento, mitigación, investigación, medición, monitoreo o remediación ambiental.

6. La acción propuesta ubica en un área donde no existen problemas de infraestructura relacionada con los servicios de energía eléctrica, agua potable, alcantarillado sanitario, alcantarillado pluvial y la capacidad vial para los accesos.

7. La acción propuesta deberá cumplir con cada uno de los requisitos específicos que le son de aplicabilidad.

Aviso

Si luego de haberse aquí dado cumplimiento con el Artículo 4(B) de la Ley Núm. 416 surgieran variaciones sustanciales en la acción propuesta que requieran la evaluación a los impactos ambientales, habrá que presentar el correspondiente documento ambiental, de conformidad con la Ley sobre Política Pública Ambiental.

Condiciones Especiales

Certificación de Cumplimiento Ambiental por Exclusión Categórica

Firma / Sellos

Fecha de Expedición:
17/NOV/2021

Ing. Gabriel Hernández
Secretario Auxiliar
Departamento de Desarrollo Económico y Comercio de Puerto Rico
Oficina de Gerencia de Permisos

Ing. Gabriel Hernández Rodríguez

Secretario Auxiliar

GOBIERNO DE PUERTO RICO
AUTORIDAD DE LOS PUERTOS

EVALUACIÓN AMBIENTAL
MUELLE PANAMERICANO I, SAN JUAN, PUERTO RICO

Informe preparado por:
Zaidé A. Morales Rivera, M.S., R.E.M.
Negociado de Ingeniería
Oficina de Asuntos Ambientales

Contenido

1.0 INTRODUCCION 2
2.0 PROCEDIMIENTO 3
3.0 METODOLOGIA PARA ANALISIS DE PINTURA CON BASE DE PLOMO .. 4
4.0 RESULTADOS 4
4.1 Resultados de laboratorio para "paint chip" 4
4.2 Resultados de la inspección de asbesto 4
5.0 CONCLUSION 4
Apéndice I 5
Apéndice II 8

1.0 INTRODUCCION

En las últimas décadas, el gobierno federal ha tomado una serie de medidas clave para reducir los riesgos asociados con la exposición al plomo. Ha prohibido el uso de plomo en la pintura de la casa y en la soldadura y las tuberías utilizadas en los sistemas públicos de agua potable. La EPA (Agencia de Protección Ambiental) ha contribuido a estos esfuerzos tomando medidas para eliminar virtualmente el plomo de la gasolina y promulgando estándares para el agua potable.

En 1971, el gobierno federal promulgó la Ley de Prevención del Envenenamiento por Pintura a Base de Plomo (LBPPPA), que, entre otras cosas, requería que el Secretario de Salud, Educación y Bienestar Social, prohibiera el uso de pintura a base de plomo en estructuras residenciales construidas o rehabilitadas por el Gobierno Federal o con asistencia federal. La pintura a base de plomo se definió como la pintura que contiene más del 1% por peso. En 1972, HUD emitió regulaciones que prohíben la pintura a base de plomo en las viviendas asociadas a HUD.

En 1973, LBPPPA se modificó para reducir el contenido de plomo permitido en la pintura a 0.5% hasta el 31 de diciembre de 1974 y 0.06% después de esa fecha, a menos que la Comisión de Seguridad de Productos de Consumo (CPSC) encontrara que un porcentaje más alto era seguro. En 1974, la CPSC informó al Congreso que consideraba que el 0.5% de plomo era un nivel seguro.

En 1976, enmiendas adicionales a LBPPPA redujeron el límite de plomo de pintura a 0.06% a menos que la CPSC determinara nuevamente que un límite más alto que no excedía el 0.5% era seguro. En 1978, la CPSC, actuando bajo la autoridad de la Ley de Seguridad de Productos del Consumidor, prohibió la venta de pintura a base de plomo a los consumidores y el uso de pintura a base de plomo en residencias y otras áreas donde los consumidores tienen acceso directo a las superficies pintadas.

En 1987, el Congreso enmendó LBPPPA para exigir la inclusión de pintura intacta en la definición de peligro inmediato y fecha límite de construcción de 1978, la inspección de una muestra aleatoria de viviendas en desarrollos familiares anteriores a 1978, que se

completará en diciembre de 1994, y la reducción del riesgo de plomo superior a 1,0 mg / cm3.

Las mejoras y extensión del muelle Panamericano se realizaron en el 2002. Las especificaciones de construcción para la selección de materiales y productos es que fuera libre de plomo (lead free) y libre de asbestos (asbestos free). Las notas relacionadas a plomo y asbestos indican lo siguiente: En un esfuerzo por reducir la exposición futura y presente a contaminantes tanto en el aire como a la ingestión de contaminantes (plomo, asbestos, etc.) por parte de los usuarios de instalaciones, la construcción de nuevos edificios o renovaciones de edificios existentes se construirá utilizando materiales y/o productos libres de contaminantes (sin plomo, sin asbesto). Dado a que la estructura fue construida luego del 2002 y las especificaciones generales para su construcción especificaba el uso de materiales y productos sin plomo/ sin asbesto, se realizaron pruebas al azar para confirmarlo. (Apendice II)

El 26 de agosto de 2021 se realizó una evaluación ambiental para verificar (screening) la presencia de materiales con pintura con base de plomo y asbesto en la Rampa del Muelle Panamericano I, ubicado en la calle Muelle, San Juan. Está evaluación fue realizada por personal de la APPR.

2.0 PROCEDIMIENTO

La evaluación (screening) fue realizada por Zaidé A. Morales (APPR), inspectora de plomo y asbesto certificada por JCA(DRNA). Las pruebas de plomo (Paint chip) fueron tomadas y analizadas en laboratorio. Se utilizó el estándar de 0.5% por peso (w%). No se tomaron pruebas de asbesto debido a que no se identificó material sospechoso.

Se tomaron muestras al azar de columnas de acero (Steel column), base de la columna (steel beam), cruceta (cross truss), y base de concreto. Se tomaron las muestras de pintura y se clasificaron según este procedimiento.

3.0 METODOLOGIA PARA ANALISIS DE PINTURA CON BASE DE PLOMO

El nivel de peligro a plomo, determinado por la HUD (Housing & Urban Development) es 0.5% por peso (w%) por resultado de laboratorio.

El análisis de la muestra se realizó de acuerdo con el método analítico "*EPA Standard Operating Procedures for Lead in Paint by Hotplate or Microwave Based Acid Digestion and Atomic Absorption or Inductively Plasma Emission Spectroscopy*", septiembre de 1991, PB92-114172. Los resultados de laboratorio mayor de 0.5% se considera positivo a contenido de plomo. Este mismo estándar fue adoptado por las regulaciones de la EPA en el 1992 bajo el Título X. La metodología utilizada es el protocolo sugerido por HUD (1995).

4.0 RESULTADOS

4.1 Resultados de laboratorio para "paint chip"

Los análisis de laboratorio realizados a las muestras de pintura de la Rampa de abordaje en el Muelle Panamericano I (East Pier) resultaron negativos a pintura con base de plomo.

4.2 Resultados de la inspección de asbesto

No se analizaron muestras para asbesto

Todos los resultados de la evaluación están incluidos en el Apéndice I.

5.0 CONCLUSION

La evaluación para para determinar la presencia de materiales con pintura con base de plomo y asbesto fue realizada a la Rampa de abordaje del Muelle Panamericano I, en San Juan. Según los análisis de laboratorio, los resultados son negativos a pintura con base de plomo.

Apéndice I

To Whom It May Concern:

I, Miriam Estrada, in my capacity as Puerto Rico Certified Chemist, I hereby certify the attached Analytical Results for Autoridad de Puertos de Puerto Rico- Partial Demo-Metal Structure, Panamericano East Pier (I)- Project Number: C21080446- *Lead in Paint.*

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. #1074
QUIMICO LICENCIADO
A 1864120

Lcda. Miriam Estrada

9/08/2021
Date

Analytical Environmental Services International, Inc.
Atlanta, Georgia U.S.A. • Tel. 770.396.8449 • Fax 770.551.9704
611 Monserrate Street, 2nd. Floor, Santurce, PR 00907 • Tel. 787.722.0220 • Fax 787.724.5788

AES International Inc.
611 Monserrate ST, 2nd floor, Santurce, PR 00907
Tel: 787-722-0220 Fax: 787-724-5788
www.aesipr.org

LABORATORY ENDORSEMENT

REPORT NUMBER

RP21090850

JOB ID : C21080446

Sample analysis was performed in accordance with analytical method "EPA Standard Operating Procedures for Lead in Paint in Paint by Hotplate or Microwave Based Acid Digestion and Atomic Absorption or Inductively Coupled Plasma Emission Spectroscopy" September 1991,PB92-114172.

Sample receipt at AES International, Inc. is documented through the attached chain of custody. Samples were received on acceptable conditions.

This test report cannot be reproduced, except in full, without written approval of AES International, Inc. Analytical results met all quality control requirements of the test method.
Results were not corrected for field blanks. Results relate only to the samples tested.

The results contained within this report are intended for use of the customer. Any unauthorized use of the information contained in this report is prohibited. Estimated uncertainty of measurement is available upon request.

I certify that this data package is in compliance with the terms and conditions of the contract, both technical and for completeness,for other than the conditions detailed above. Release of data contained in this hardcopy data package and the electronic data deliverable has been authorized by the Quality Assurance Manager/PR Certified Chemist or her designee, as verified by the following signature.

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. #1074
QUIMICO LICENCIADO

Signature: Miriam Estrada
Date: 09/08/2021

Name: [mestrada]
Title: QA/QC

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907
Tel: (787) 722-0220 Fax:(787) 724-5788

ANALYTICAL RESULTS

REPORT NUMBER

RP21090850

Date : 08/26/21 13:15

Job ID : C21080446

Client Name: Autoridad de Puertos de Puerto Rico
Attention To: Zaide Morales Rivera
Project Name: Partial Demo-Metal Structure, Panamericano East Pier (I)
Date : 09/08/2021

Client Sample ID: PRPA-1
Job Sample ID: C21080446.01
Sample Description: Steel Column #3 (a) (Interior)
Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint Lead	< 0.010	w%	0.010	09/01/2021 13:57	Nemesis Nieves

Client Sample ID: PRPA-2
Job Sample ID: C21080446.02
Sample Description: Steel Beam (Area Column #1)
Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint Lead	< 0.010	w%	0.010	09/01/2021 13:58	Nemesis Nieves

Client Sample ID: PRPA-3
Job Sample ID: C21080446.03
Sample Description: Cross Truss (Area Column #5)
Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint Lead	< 0.010	w%	0.010	09/01/2021 13:58	Nemesis Nieves

Client Sample ID: PRPA-4
Job Sample ID: C21080446.04
Sample Description: Cross Truss (Column #6)
Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint Lead	< 0.010	w%	0.010	09/01/2021 13:59	Nemesis Nieves

Client Sample ID: PRPA-5
Job Sample ID: C21080446.05
Sample Description: Concrete Base (Column #7)
Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint Lead	< 0.010	w%	0.010	09/01/2021 13:59	Nemesis Nieves

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. #1074
QUIMICO LICENCIADO

9/08/2021

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ANALYTICAL RESULTS

REPORT NUMBER

RP21090850

Date : 08/26/21 13:15

Job ID : C21080446

Client Name:	Autoridad de Puertos de Puerto Rico	Attention To:	Zaide Morales Rivera
Project Name:	Partial Demo-Metal Structure, Panamericano East Pier (I)	Date :	09/08/2021

Client Sample ID: PRPA-6
Job Sample ID: C21080446.06
Sample Description: Steel Column #10 (a)

Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint					
	Lead	< 0.010	w%	0.010	09/01/2021 13:59	Nemesis Nieves

Client Sample ID: PRPA-7
Job Sample ID: C21080446.07
Sample Description: Cross Truss (Area Column #12)

Sample Matrix: Paint
Date Collected: 08/26/2021
Date Received: 08/26/2021

Test Method	Parameter/Test Description	Result	Units	RQL Limit	Date/Time Analyzed	Analyst
PB92-114172	SOP for Lead in Paint					
	Lead	< 0.010	w%	0.010	09/01/2021 14:00	Nemesis Nieves

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. #1074
QUIMICO LICENCIADO

9/08/2021

AES International Inc.
611 Monserrate ST, 2nd floor, Santurce, PR 00907
Tel: 787-722-0220 Fax: 787-724-5788
www.aeslpr.org

QUALITY CONTROL DATA SUMMARY

Job ID : C21080446

REPORT NUMBER

RP21090850

Analysis : SOP for Lead in Paint **Method :** PB92-114172 **Reporting Units :** w%

QC Batch ID : Qb21090814 **Created Date :** 09/08/2021 **Created By :** nnieves

Samples in This QC Batch : C21080446.01,02,03,04,05,06,07 **Approved Date:** 09/08/2021 **Approved By :** mestrada

QC Type: Method Blank

Parameter	QCType	CAS #	Result	Units	D.F.	RptLimit		Qual
Lead	CCB 2		< 0.13	mg/L	1	0.13		
Lead	ICB		< 0.13	mg/L	1	0.13		
Lead	Reagent Blank		< 0.13	mg/L	1	0.13		
Lead	CCB		< 0.13	mg/L	1	0.13		

QC Type:Laboratory Control Sample

Parameter	QCType	LCS VALUE	LCS Result	LCS %Rec	LCS Dup Added	LCS DUP Result	LCS Dup %Rec	Units	%RPD	RPD QCLimit	%Recovery QCLimit	Qual
Lead	RLV	0.0100	0.0110	110.00				w%			80-120	
Lead	LCS	0.196	0.1680	85.70				w%			80-109	
Lead	IPC Paint	10.0	11.4	114.00				ug			80-120	

QC Type: MS and MSD
QC Sample ID: C21080446.01

Parameter	QCType	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	%RPD	RPD QCLimit	%Rec QCLimit	Qual
Lead	MS , MSD	< 0.010	0.302	0.256	84.40	0.302	0.259	85.40	1.17	2.11	75-93	

QC Type: Initial and Continuing Calibration Check.

Parameter	QCType	Result	Units	Standard Value	Std Units	% Rec	%Rec QCLimit	Qual
Lead	CCV	5.26	mg/L	5.00	mg/L	105.20	90-110	
Lead	CCV 2	5.27	mg/L	5.00	mg/L	105.40	90-110	
Lead	ICV	1.04	mg/L	1.00	mg/L	104.00	90-110	

Refer to the Definition page for terms.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
#611 Monserrate, 2nd. Floor, Santurce, P.R. 00907
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Dust Wipes, Paints, Soil Sample Analysis

Client Name: Autoridad de los Puertos de P.R.
Address: P.O. Box 362829, San Juan, P.R.
Contact: Zaidé A. Morales
Phone/Fax: (787) 729-8715 Ext. 3209 / ZAmorales@prpa.pr.gov

Project Name: PARTIAL DEMO. METAL STRUCTURE
Site Location: PANAMERICANO EAST PIER (I)
Samplers Name: Zaidé A. Morales Rivera
Company: Autoridad de los Puertos de P.R.

Chain of Custody Record

COC-012/Rev 2/2017

SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFO. Preservative	SAMPLE INFO. No. of Containers	ANALYSIS Lead paint chips							LAB I.D. #
PRPA-1	STEEL COLUMN #3(a) (INTERIOR)	26/8/21	9:00AM		✓		N/A		✓							21080446.01
PRPA-2	STEEL BEAM (AREA COLUMN#1)	26/8/21	9:10AM		✓		N/A		✓							02
PRPA-3	CROSS TRUSS (AREA COLUMN #5)	26/8/21	10:00AM		✓		N/A		✓							03
PRPA-4	CROSS TRUSS BASE (COLUMN#6)	26/8/21	10:15AM		✓		N/A		✓							04
PRPA-5	CONCRETE BASE (COLUMN #7)	26/8/21	10:20AM		✓		N/A		✓							05
PRPA-6	STEEL COLUMN#10(a)	26/8/21	10:25AM		✓		N/A		✓							06
PRPA-7	CROSS TRUSS (AREA COLUMN#12)	26/8/21	10:35AM		✓		N/A		✓							07

Turnaround Time: Normal: ☒ Rush: ☐

Sampling Witness: _____

Witness Company: _____

Comments: _____

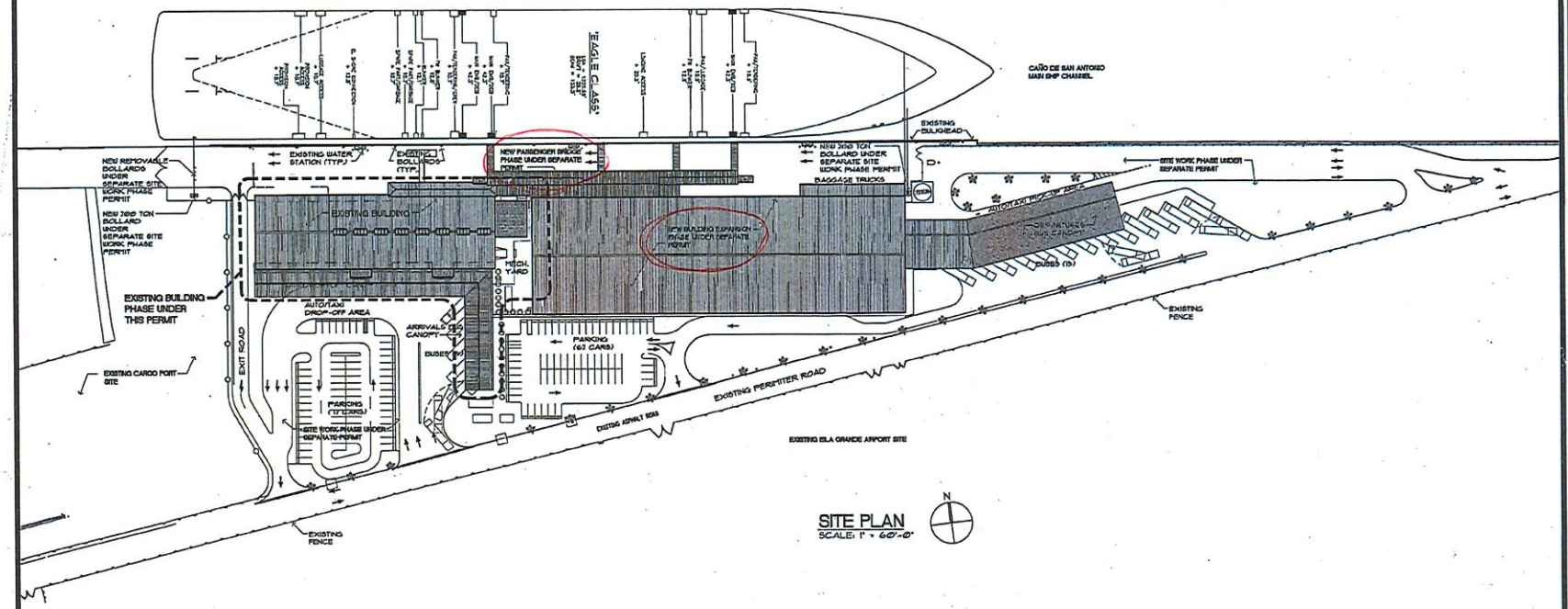
Relinquished By: Zaidé A. Morales Rivera	Date/Time: 26/8/21 (11:00AM)	Delivered Directly to Lab: ☐
Received By: [signature]	Date/Time 8/26/21 13:15	Method of Shipment: _____
Relinquished By:	Date/Time	Lab. Recipient: _____
Received By:	Date/Time	Date: _____

Job ID:C21080446

Autoridad de Puertos de Puerto Rico

Fotos

Apéndice II



SITE PLAN

SCALE: 1" = 60'-0"

GENERAL NOTES:

1. ALL WORK TO BE PERFORMED SHALL COMPLY WITH THE REQUIREMENTS THE UNIFORM BUILDING CODE (UBC) 1997 EDITION AND NFPA 101 LIFE SAFETY CODE 1997 EDITION AND ANY AGENCY HAVING JURISDICTION ON THIS PROJECT.
2. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
3. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS AND CONDITIONS ON THESE DRAWINGS AND/OR ALL OBVIOUS ERRORS AND OMISSIONS.
4. CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF THE EXISTENCE OF ANY OBSERVED VARIATIONS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OR ORDINANCES.
5. ALL WORK SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (OCT. 1997 EDITION W/1998 ADDENDUM) AND THE AMERICAN WITH DISABILITIES ACT, PUBLIC LAW 101-336 (ADA), WHICHEVER IS MOST STRINGENT.
6. OWNER WILL OCCUPY PREMISES DURING CONSTRUCTION PERIOD TO CONDUCT HIS NORMAL OPERATIONS. G. C. WILL COOPERATE WITH THE OWNER IN SCHEDULING OPERATIONS TO MINIMIZE CONFLICT AND TO FACILITATE OWNER USAGE.
   A. DURING OCCUPANCY, CONTRACTOR WILL PROVIDE:
      1. CONTINUOUS OPERATION OF HVAC AND ELECTRICAL SYSTEMS.
      2. SECURITY FOR/FROM CONSTRUCTION OPERATIONS AND STORAGE.
      3. PROTECTION AND SAFETY FROM CONSTRUCTION OPERATIONS.
      4. TOILET FACILITIES AS REQUIRED.
7. THE DEMOLITION PLANS FOR THIS PROJECT ARE GENERAL IN NATURE AND INDICATE APPROXIMATE EXISTING CONDITIONS AT THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISUAL FIELD VERIFICATION OF CONDITIONS AND QUANTITIES AND NOTIFY THE A/E AND THE OWNER OF DISCREPANCIES VIA ADDENDUM. FAILURE ON THE PART OF THE PROSPECTIVE CONTRACTORS TO COMPLY WITH THE ABOVE MENTIONED MANDATE SHALL NOT ENTITLE THE AWARDED CONTRACTOR TO ADDITIONAL REMUNERATION AFTER BID AWARD.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND TOPOGRAPHIC SPOT ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY EXISTING DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
9. THE CONTRACTOR IS TO EXERCISE CARE DURING THE DEMOLITION AND REMOVAL TO ASSURE THAT ITEMS SCHEDULED FOR DEMOLITION AND REMOVAL ARE PROPERLY REMOVED SO AS TO MINIMIZE DAMAGE TO THE SURROUNDING AREA. ITEMS SCHEDULED TO BE RELOCATED OR TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. ALL SCHEDULED ITEMS THAT ARE CALLED FOR IN THE CONTRACT DOCUMENTS TO BE REMOVED ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF AS REQUIRED BY LOCAL AND STATE CODES AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
10. THE CONTRACTOR SHALL CAREFULLY EXECUTE ALL WORK TO AVOID UNNECESSARY DAMAGE TO EXISTING ITEMS SCHEDULED TO REMAIN IN PLACE INCLUDING BUT NOT LIMITED TO EXISTING MECHANICAL, ELECTRICAL & LIGHTING EQUIPMENT.
11. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE CUTTING OF ANY EXISTING PILE/GRADE BEAM SUPPORTED STRUCTURAL FLOOR SLAB.
12. THE CONTRACTOR IS TO PROVIDE SECURITY BARRIERS AND OTHER APPLICABLE DEVICES AS REQUIRED BY THE CONTRACT DOCUMENTS AND/OR LOCAL AND STATE CODES AND REGULATIONS. PLACEMENT OF SAFETY DEVICES IS TO TAKE PLACE IN A MANNER SO AS NOT TO DISRUPT THE FACILITY OPERATIONS. THE CONTRACTOR'S SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PATCHING ANY DAMAGED SURFACES TO MATCH EXISTING AND PAINTING ALL SURFACES AFFECTED BY THE NEW CONSTRUCTION. THOSE AFFECTED ITEMS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

SITE CONDITIONS NOTES:

1. EXISTING CONDITIONS LIKE TREES, FENCES, IRRIGATION LINES, UTILITY LINES, BUILDINGS, ETC., WERE TAKEN FROM THE BEST AVAILABLE DATA.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED WORK AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT/ENGINEER PRIOR TO STARTING WORK.
3. PROPOSED CONSTRUCTION WILL BE ADJUSTED TO AVOID EXISTING TREES AND ROOTS AS MUCH AS POSSIBLE.
4. ANY EXISTING SOD, TREES, UTILITIES, IRRIGATION LINES, PUBLIC OR PRIVATE PROPERTY, ETC., DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY OWNER.
5. TREES TO BE RELOCATED SHOULD BE ROOT PRUNED 4 WEEKS MIN. BEFORE BEING TRANSPLANTED.
6. GENERAL CONTRACTOR MUST CONTACT ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION.
8. PROVIDE MINIMUM 2" TOPSOIL FOR FINAL GRADING, RAKE AND REMOVE ROCKS IN EXCESS OF 1/2" AND INSTALL A MINIMUM OF 18" WIDE SOD AROUND PERIMETER OF NEW FINISHED BUILDING(S), WITH A 6 TO 1 MAXIMUM SLOPE. REPLACE ANY PORTIONS DAMAGED DURING CONSTRUCTION AS REQUIRED.
9. TRENCHES: FILL UP TO GRADE WITH SUITABLE MATERIAL AND COMPACT, RAKE & REMOVE ROCKS IN EXCESS OF 1/2 INCHES, LAST 2 INCHES MUST BE A 50/50 MIXTURE OF TOP SOIL & SAND TO PROMOTE GRASS GROWING.
10. ALL ORGANIC MATERIAL REMOVED PER STRUCTURAL SPECS SHALL BE STORED ELSEWHERE TO BE REUSED FOR GRADING.
11. PARK MANAGER, PROJECT MANAGER AND G.C. TO ATTEND TEST OF EXISTING SPRINKLER SYSTEM BEFORE CONSTRUCTION.

ASBESTOS/LEAD NOTES

A. GENERAL
1. IN AN EFFORT TO REDUCE FUTURE AND PRESENT EXPOSURE TO BOTH AIRBORNE OR INGESTION OF CONTAMINANTS (IE, LEAD, ASBESTOS, ETC.) BY USERS OF PARK FACILITIES, CONSTRUCTION OF EITHER NEW BUILDINGS OR RENOVATION/REMODELING OF EXISTING BUILDINGS SHALL BE BUILT USING CONTAMINANT - FREE MATERIALS AND/OR PRODUCTS (IE, LEAD-FREE, ASBESTOS- FREE, ETC.)
2. NO CONTAMINANT - CONTAINING MATERIALS AND OR PRODUCTS (IE, LEAD, ASBESTOS, ETC.) HAVE BEEN SPECIFIED ON THESE DRAWINGS.
3. GENERAL CONTRACTOR STATEMENT: THE GENERAL CONTRACTOR SHALL PROVIDE A NOTARIZED STATEMENT THAT NO CONTAMINANT - CONTAINING MATERIALS AND/OR PRODUCTS (I. E. LEAD, ASBESTOS, ETC.) HAVE BEEN USED OR INSTALLED. G. C. IS TO REQUEST THIS FROM HIS SUBCONTRACTORS AND SUBMIT ORIGINAL COPY TO THE OWNER'S REPRESENTATIVE NO LATER THAN AT TIME OF SUBSTANTIAL COMPLETION. THIS SHALL APPLY TO ALL TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, PLUMBING, HVAC, MECHANICAL, ROOFING, FINISHES, ETC.
4. THE GENERAL CONTRACTOR IS TO PROVIDE TO THE OWNER'S REPRESENTATIVE AT TIME OF SHOP DRAWINGS/CATALOG CUTS SUBMITTAL COPIES OF THE MATERIAL SAFETY DATA SHEETS (MSDS) OF ALL THE MATERIALS AND/OR PRODUCTS TO BE USED.
5. THE GENERAL CONTRACTOR MUST PROVIDE PROOF OF WATER QUALITY AND PROVIDE AND PAY FOR THE FOLLOWING TESTS:
   (a) LEAD TEST: PERFORMED BY P & R HAZARDOUS MATERIAL MANAGEMENT SECTION. PLEASE CONTACT MR. LONDON SPENCER AT 759-1871.
   (b) BACTERIOLOGICAL & CHEMICAL TEST: PERFORMED BY THE FLORIDA DEPARTMENT OF HEALTH. PLEASE CONTACT MR. JOE DIMARZIO AT 673-3500.
   (c) LEAD TEST SHALL BE PERFORMED BEFORE AND AFTER CONSTRUCTION.
B. ADDITION/RENOVATION PROJECTS
1. FACILITIES REQUIRING RENOVATION, REMODELING AND NEW CONSTRUCTION TO BE ATTACHED TO AN EXISTING FACILITY, INCLUDING AND NOT LIMITED TO RE-ROOFING, SHALL COMPLY WITH, FEDERAL REGISTER SECTION 1926-58 PART III - ENVIRONTENTAL PROTECTION AGENCY 40 CFR PART 61: ASBESTOS NESHAP REVISION FINAL RULE (DATED NOVEMBER 20, 1990) AND ANY SUBSEQUENT UPDATE.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO ANY DEMOLITION, REMOVAL, ETC., TO ENSURE ASBESTOS CONTAINING BUILDING MATERIAL(ACBM) ARE NOT PRESENT. IN ADDITION, HE/SHE SHALL VERIFY WITH THE FACILITY'S OPERATIONAL AND MAINTENANCE MANUAL, AVAILABLE AT THE FACILITY'S MANAGER'S OFFICE.

BEA INTERNATIONAL
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BRAY
ARCHITECTS ENGINEERS

PAN AMERICAN TERMINAL EXISTING BUILDING PHASE

SAN JUAN
PUERTO RICO

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SHEET TITLE: SITE PLAN

REVISIONS:

SUBMITTAL:	
30%	06/26/00
75%	10/20/00
90%	11/27/00

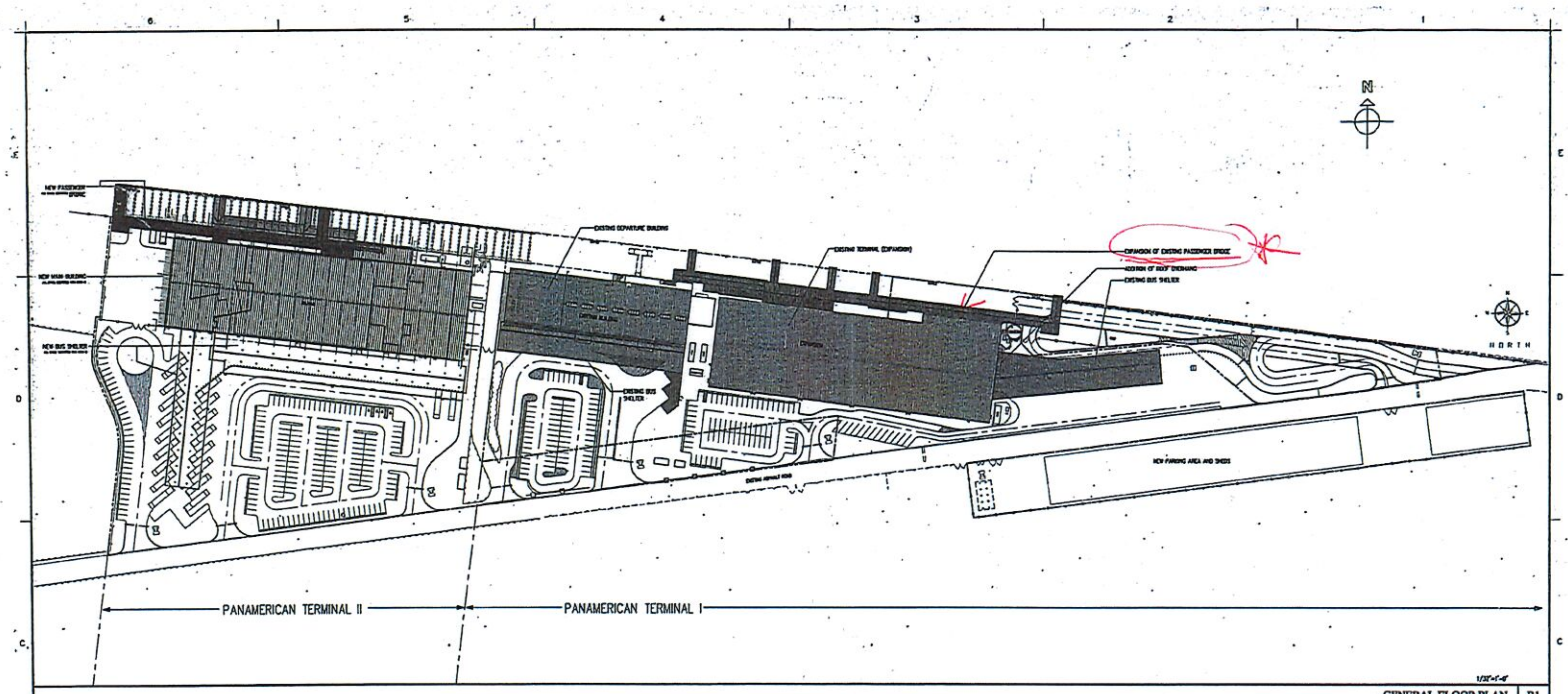
SCALE: 1" = 60'-0"

DATE: 04/27/01

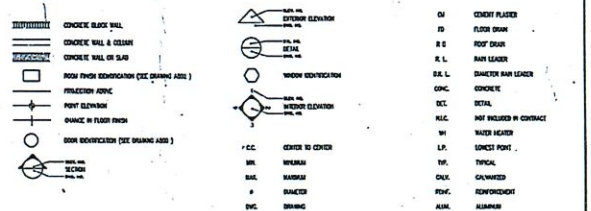
PROJECT No: 00-0652

DRAWN BY: CHECKED BY:

SHEET No: A1.0



GENERAL FLOOR PLAN | B1



TYPICAL LEGEND OF SYMBOLS | A1

RAY

ARCHITECTS ENGINEERS

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CONSULTANTS

2002

NO.	DATE	DESCRIPTION	BY	CHKD
A	5/31/02	ISSUE FOR CONSTRUCTION	-	LJF

OWNER / DEVELOPER

PRPA
ROYAL CARIBBEAN

LOGO

SOLO PUERTO RICO

PROJECT NAME / NUMBER

PAN AMERICAN TERMINAL II

SAN JUAN, PR
01-165

PHASE

SEAL

AS-BUILT

TITLE

Key Plan–PANAMERICAN TERMINAL RENAVATION OF EXISTING AND PANAMERICAN TERMINAL II – NEW BUILDINGS (PHASE II)

FILE NAME	G-001
DRAWN BY	RMH
REVIEWED BY	LJF
PLOT SCALE	1=1
DATE	2.15.02

DRAWING NO.

G-001