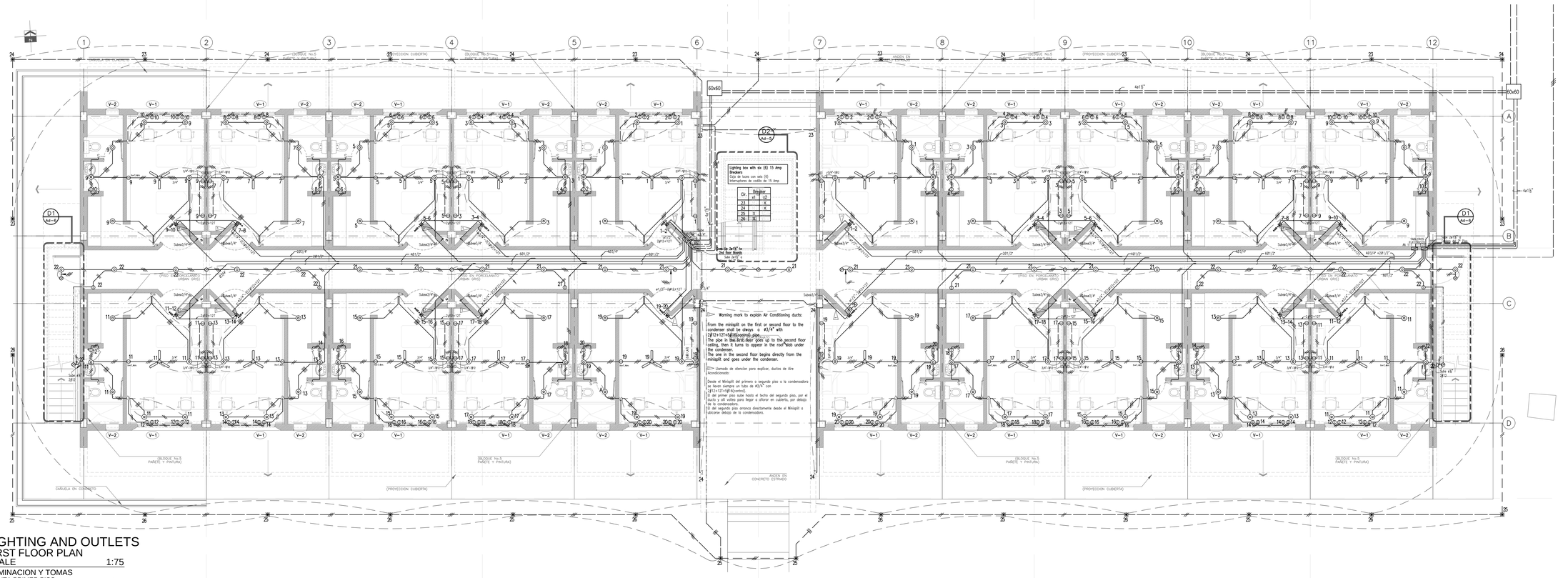
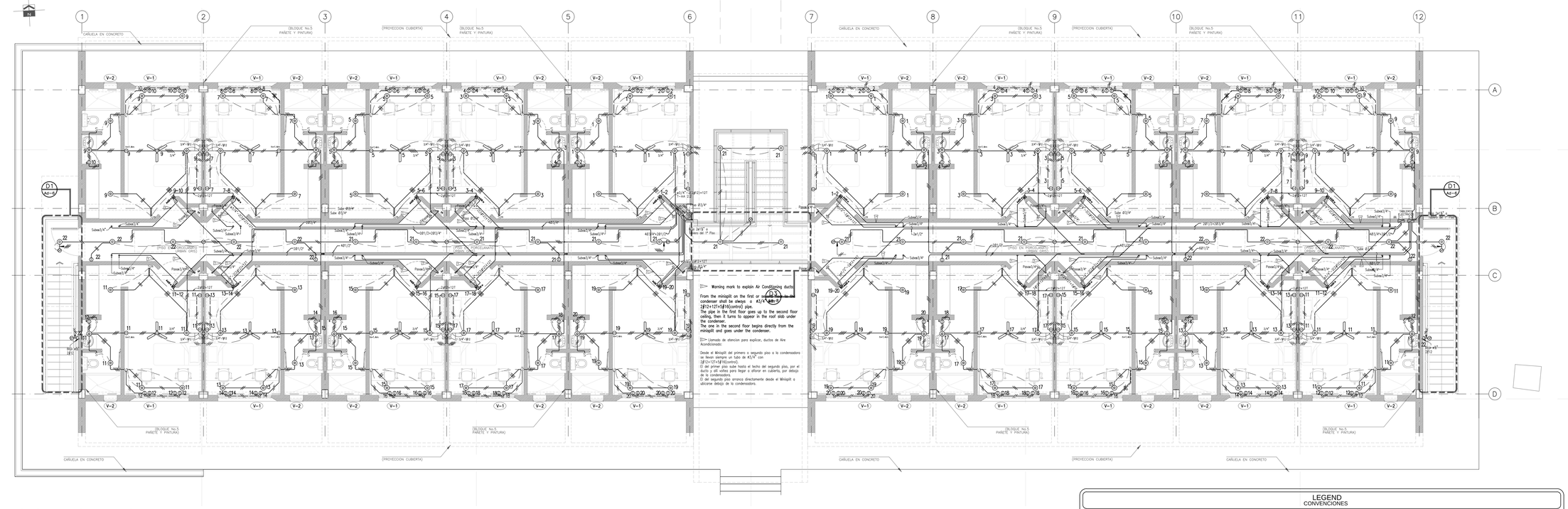


LIGHTING AND OUTLETS
FIRST FLOOR PLAN
E1 SCALE 1:75

ILUMINACION Y TOMAS
PLANTA PRIMER PISO
ESCALA 1:75



LIGHTING AND OUTLETS
SECOND FLOOR PLAN
E2 SCALE 1:75

ILUMINACION Y TOMAS
PLANTA SEGUNDO PISO
ESCALA 1:75

LEGEND
CONVENCIONES

SWITCHES	INTERRUPTORES
SS•S3	SENCILLO, DOBLE Y TRIPLE
S•,S•K	SINGLE AND DOUBLE COMMUTABLE / SENCILLO Y DOBLE CON LLAVE
S•K	SINGLE AND DOUBLE KEY / SENCILLO
	SWITCHES BOX / CAJA DE INTERRUPTORES
	CONTROLLED CLOCK / PULSADOR CONTROLADO POR RELOJ
	CONTROL LIGHTS CLOCK / RELOJ CONTROL LUCES
	REMOTE SWITCH / PULSADOR REMOTO
	CEILING PRESENCE DETECTOR / DETECTOR DE PRESENCIA EN TECHO
	SINGLE SOCKET / TOMA SENCILLA
	COMMUTABLE + BELL BUTTON / CONMUTABLE + BOTON TIMBRE

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
	CEILING (LIGHT SOCKET) / DE TECHO(RosETA)
	WALL / DE MURO
	EMBEDDED BULLET / INCRUSTADA BALA
	HALF LIGHT / LUZ DE PENUMBRA
	HALOGEN BULLET / BALA HALOGENA
	LANTERN / FAROL
	SPOTLIGHT / PROYECTOR
	SIGNS / AVISO
	INSPECTION BOX EARTH / CAJA DE INSPECCION DE TIERRA

COMMUNICATION OUTLETS	SALIDAS DE COMUNICACION
	FIRE DETECTOR / DETECTOR DE INCENDIOS
	TV. OUTLET / SALIDA T.V.

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
	T-8 / T-12
	3x17 / 3x20
	2x17 / 2x20
	1x32 / 1x40
	2x32 / 2x40
	4x32 / 2x75
MODULE 2'x2' / MODULO 2'x2'	3x17 ó 4x32 / 2x40
DERIVATION POINT / PUNTO DE DERIVACION	
HANG DRIVER tech 5 / SECADOR DE MANOS tech 5	

OUTLETS	SALIDA PARA TOMACORRIENTE
	DUPLEX WALL GFCI / DOBLE DE MURO GFCI
	DUPLEX WALL / DOBLE DE MURO
	BATTERY CHARGER / CARGADOR DE BATERIAS
	SWITCH CONTROLLED / CONTROLADA POR INTERRUPTOR
	THREE PHASE / TRIFASICA
	FAN CONTROL / CONTROL DE VENTILADOR

SPECIALNT EQUIPMENT	EQUIPOS ESPECIALES
	CEILING FAN / VENTILADOR DE TECHO
	MINISPLIT AIRE 220 VAC / AIRE MINISPLIT, 220 VAC
	CONDENSING UNIT / UNIDAD CONDENSADORA
	FIRE AND CARBON MONOXIDE DETECTOR / DETECTOR DE HUMO Y DE MONOXIDO DE CARBONO
	CONCRETE POST 12M 2250 / POSTE DE CONCRETO 12M 2250
	GROUNDING / PUESTA A TIERRA
	TIE / TEMPLETE
	TRANSFORMER / TRANSFORMADOR

CONDUIT PIPES	TUBERIA CONDUIT
ELECTRICAL	ELECTRICA
CEILING AND WALL / FLOOR	TECHO Y MUROS / PISO
TELEPHONE	TELEFONO
ANTENNA TV, CCTV, NETWORK	ANTENA TV Y/O CCTV
DOORPHONE	CITOFONO
SOUND	SONIDO
FIRE	INCENDIO
COMMUNICATIONS, VOICE AND DATA SYSTEM	RED VOZ Y DATOS
REMOTE CONTROL	CONTROL REMOTO
MICROPHONE	MICROFONO
BOARD 9 INT +3 2 AUTOMATICS	TABLERO 9 INT +3 2 AUTOMATICOS

E-1

SHEET:

EMBASSY OF THE UNITED STATES
INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT- I.N.L
BOGOTA - COLOMBIA

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BOGOTA, COLOMBIA

COR:
ENGINEER FRANCISCO CABRERA

A & E DESIGN FIRM:
DIAZ VILLEGAS ARQUITECTOS
www.diazvillegasarquitectos.com
TELEFONO: 2188907 - 2188809
ARQUITECTO JORGE DIAZ VILLEGAS

PROJECT:
A&E DESIGN FOR A NEW LODGING BUILDING AT THE CNP AVIATION SCHOOL IN MARIQUITA, TOLIMA.

CONTRACT NUMBER:	CONTRACT DATE:
SCO150-13-M-0291	JANUARY 28, 2013
PURCHASE ORDER:	
SCO150-13-M-0291	

LOCATION:

LEGEND:
SEE LEGEND IN DRAWING AREA

OBSERVATIONS:
ALL LEVELS AND DIMENSIONS MUST BE VERIFIED ON SITE BY THE BUILDING CONTRACTOR.

ALL UNITS ARE IN METRIC SYSTEM.

REVISIONS:

No.	SUBMITTAL	DATE
1	10 % SUBMITTAL	12.02.2013
2	35% SUBMITTAL	08.03.2013
3	60% SUBMITTAL	08.03.2013
4	90% SUBMITTAL	25.04.2013
5	100% SUBMITTAL	13.06.2013

PHASE:
☐10% ☐35% ☐60% ☐90% ■100%

CONTENIDO:
PLANTA DE PRIMER Y SEGUNDO PISO
ILUMNIACION Y TOMAS

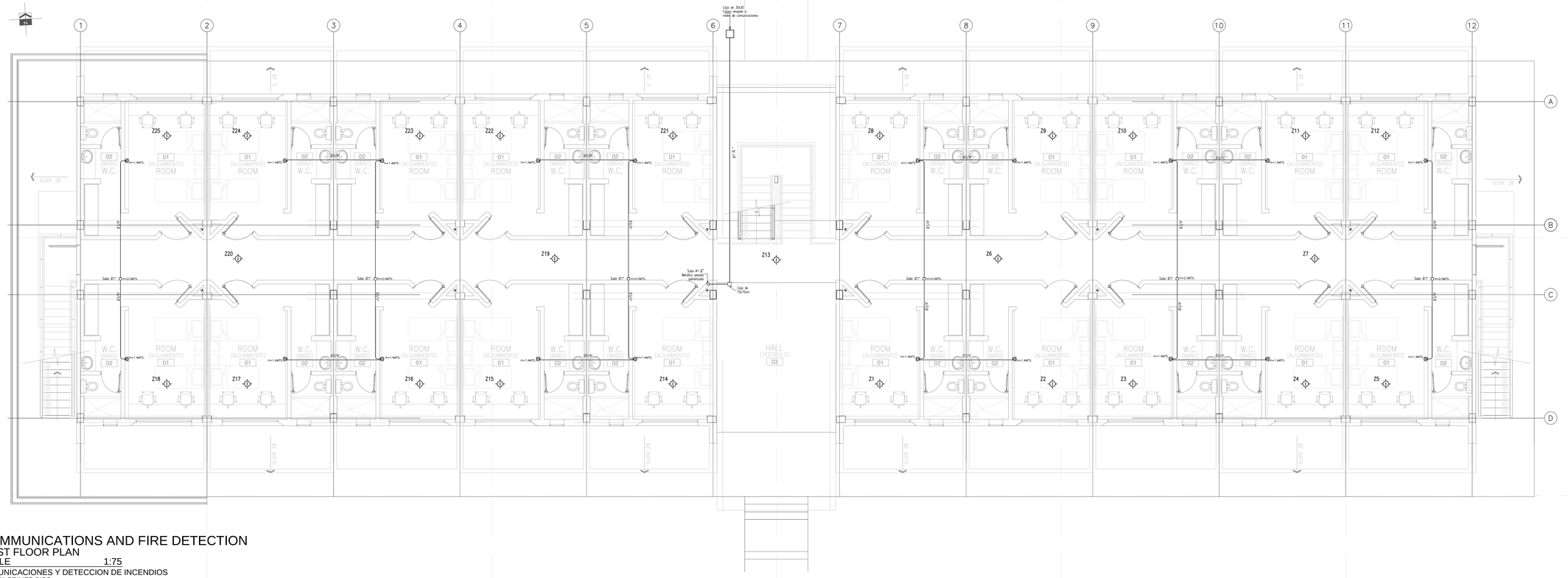
CONTENTS:
FIRST FLOOR AND SECOND FLOOR PLAN
LIGHTING AND OUTLETS

SHEET PLAN:	SCALE:
77-E-1-2-3.dwg	1:75

SHEET: E-1

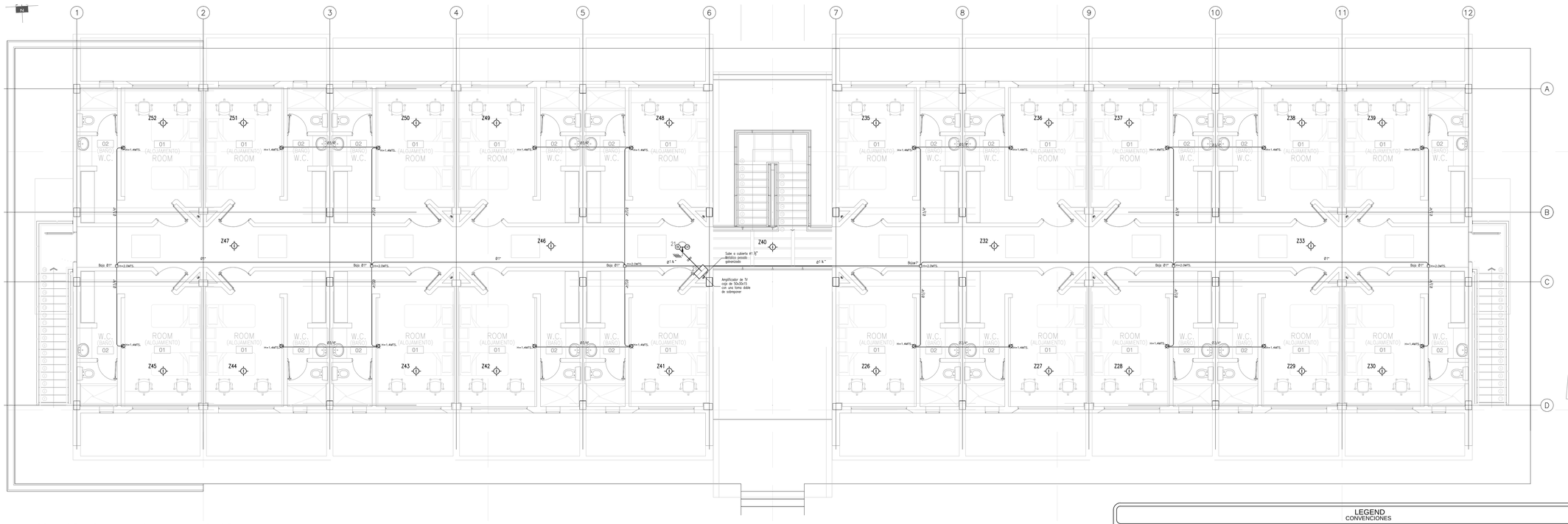
DRAWING DATE: JUNE 13/2013

DESIGNED BY: Eng. Julio Cesar Garc³a
PROFFESION: Electrical Engineer
PROFFESIONAL CARD: 205-12713 CND
SIGNATURE:



COMMUNICATIONS AND FIRE DETECTION
FIRST FLOOR PLAN
SCALE 1:75

E3 COMUNICACIONES Y DETECCION DE INCENDIOS
PLANTA PRIMER PISO 1:75
ESCALA



COMMUNICATIONS AND FIRE DETECTION
SECOND FLOOR PLAN
SCALE 1:75

E4 COMUNICACIONES Y DETECCION DE INCENDIOS
PLANTA SEGUNDO PISO 1:75
ESCALA

LEGEND
CONVENCIONES

SWITCHES	INTERRUPTORES
S-S+S+	SINGLE, DOUBLE OR TRIPLE	SENCILLO, DOBLE O TRIPLE
S-S+K	SINGLE AND DOUBLE COMMUTABLE	CONMUTABLE SENCILLO Y DOBLE
S+K	COMMUTABLE	CONMUTABLE MAS SENCILLO
	SWITCHES BOX	CAJA DE INTERRUPTORES
	CONTROLLED CLOCK	RELOJ/SIDOR CONTROLADO POR RELOJ
	CONTROL LIGHTS CLOCK	RELOJ CONTROL LUCES
	REMOTE SWITCH	PULSADOR REMOTO
	CEILING PRESENCE DETECTOR	DETECTOR DE PRESENCIA DE TECHO
	SINGLE SOCKET	SENCILLO
	COMMUTABLE + BELL BUTTON	CONMUTABLE + BOTON TIMBRE

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
CEILING (LIGHT SOCKET)	DE TECHO/HORIZONTAL
WALL	DE MURO
EMBEDDED BULLET	INCRUSTADA BALA
HALF LIGHT	LUZ DE PENUMBRA
HALOGEN BULLET	BALA HALOGENA
LANTERN	FAROL
SPOTLIGHT	PROYECTOR
SIGNS	AVISO
INSPECCION BOX EARTH	CAJA DE INSPECCION DE TIERRA

COMMUNICATION OUTLETS	SALIDAS DE COMUNICACION
FIRE DETECTOR	DETECTOR DE INCENDIOS
TV. OUTLET	SALIDA T.V.

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
	T-8 / T-12
	1x17 / 1x26
	2x17 / 2x26
	1x32 / 1x40
	2x32 / 2x40
	3x32 / 3x40
	4x32 / 2x75
MODULE 2'x2' / MODULO 3x17 W / 4x17 W	3x40
DERIVATION POINT	PUNTO DE DERIVACION
HAND DRYER h=1.5	SECADOR DE MANOS h=1.5

OUTLETS	SALIDA PARA TOMACORRIENTE
DUPLEX WALL GFCI	DOBLE DE MURO GFCI
DUPLEX WALL	DOBLE DE MURO
BATTERY CHARGER	CARGADOR DE BATERIAS
SWITCH CONTROLLED	CONTROLADA POR INTERRUPTOR
THREE PHASE	TRIFASICA
FAN CONTROL	CONTROL DE VENTILADOR

SPECIALIST EQUIPMENT	EQUIPOS ESPECIALES
CEILING FAN	VENTILADOR DE TECHO
MINISPLIT AIRE 220 Volt	AIRE MINISPLIT 220 Volt
CONDENSING UNIT	UNIDAD CONDENSADORA
SMOKE DETECTOR / MONOXIDE DETECTOR	DETECTOR DE HUMO / MONOXIDO DE CARBONO
CONCRETE POST 12M 2050	POSTE EN CONCRETO 12M 2050
GROUNDING	PUESTA A TIERRA
TIE	TEMPLETE
TRANSFORMER	TRANSFORMADOR

CONDUIT PIPES	TUBERIA CONDUIT
ELECTRICAL	ELECTRICA
CEILING AND WALL FLOOR	TECHO Y MUROS PISO
TELEPHONE	TELEFONO
ANTENNA TV, CCTV, NETWORK	ANTENA TV Y/O CCTV
DOORPHONE	CITOFONO
SOUND	SONIDO
FIRE	INCENDIO
COMMUNICATIONS, VOICE AND DATA SYSTEM	RED VOZ Y DATOS
REMOTE CONTROL	CONTROL REMOTO
MICROPHONE	MICROFONO
BOXES 0,40 x 0,12 AUTOMATICS	TABLERO 0,40 x 0,12 AUTOMATICOS

E-2
SHEET:

EMBASSY OF THE UNITED STATES
INTERNATIONAL NARCOTICS AND
LAW ENFORCEMENT- I.N.L
BOGOTA - COLOMBIA

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COR:
ENGINEER FRANCISCO CABRERA

A & E DESIGN FIRM:
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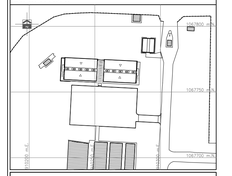
ARQUITECTO JORGE DIAZ VILLEGAS

PROJECT:
A&E DESIGN FOR A NEW LODGING BUILDING AT THE CNP AVIATION SCHOOL IN MARIQUITA, TOLIMA.

CONTRACT NUMBER:	CONTRACT DATE:
SCO150-13-M-0291	JANUARY 28, 2013
PURCHASE ORDER: SCO150-13-M-0291	

LOCATION:


LEGEND:
SEE LEGEND IN DRAWING AREA

OBSERVATIONS:
ALL LEVELS AND DIMENSIONS MUST BE VERIFIED ON SITE BY THE BUILDING CONTRACTOR.

ALL UNITS ARE IN METRIC SYSTEM.

REVISIONS:

No.	SUBMITTAL	DATE
1	10 % SUBMITTAL	12.02.2013
2	35% SUBMITTAL	08.03.2013
3	60% SUBMITTAL	08.03.2013
4	90% SUBMITTAL	25.04.2013
5	100% SUBMITTAL	13.06.2013

PHASE:
☐10% ☐35% ☐60% ☐90% ■100%

CONTENIDO:
PLANTA DE PRIMER Y SEGUNDO PISO COMUNICACIONES Y DETECTORES DE INCENDIO

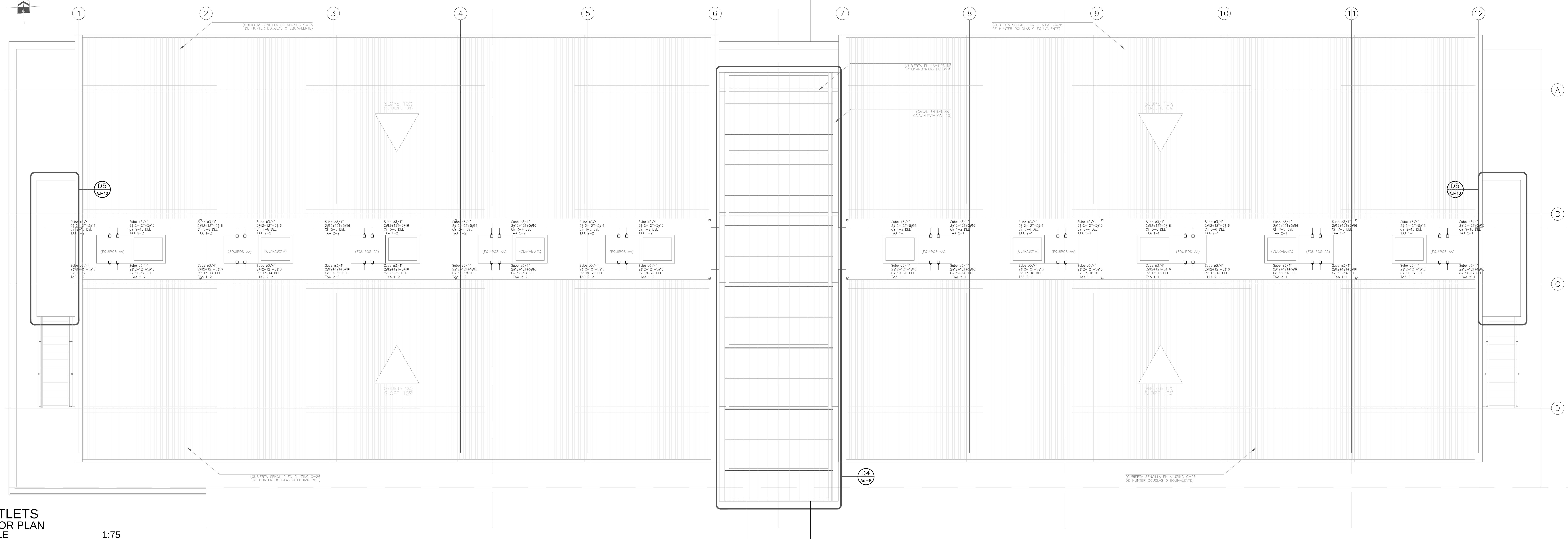
CONTENTS:
FIRST FLOOR AND SECOND FLOOR PLAN COMUNICATIONS AN FIRE DETECTION

SHEET PLAN:	SCALE:
77-E-1-2-3.dwg	1:75

SHEET: E-2

DESIGNED BY: Eng. Julio Cesar Garc*a
PROFFESION: Electrical Engineer
PROFFESIONAL CARD: 205-12713 CND
SIGNATURE:

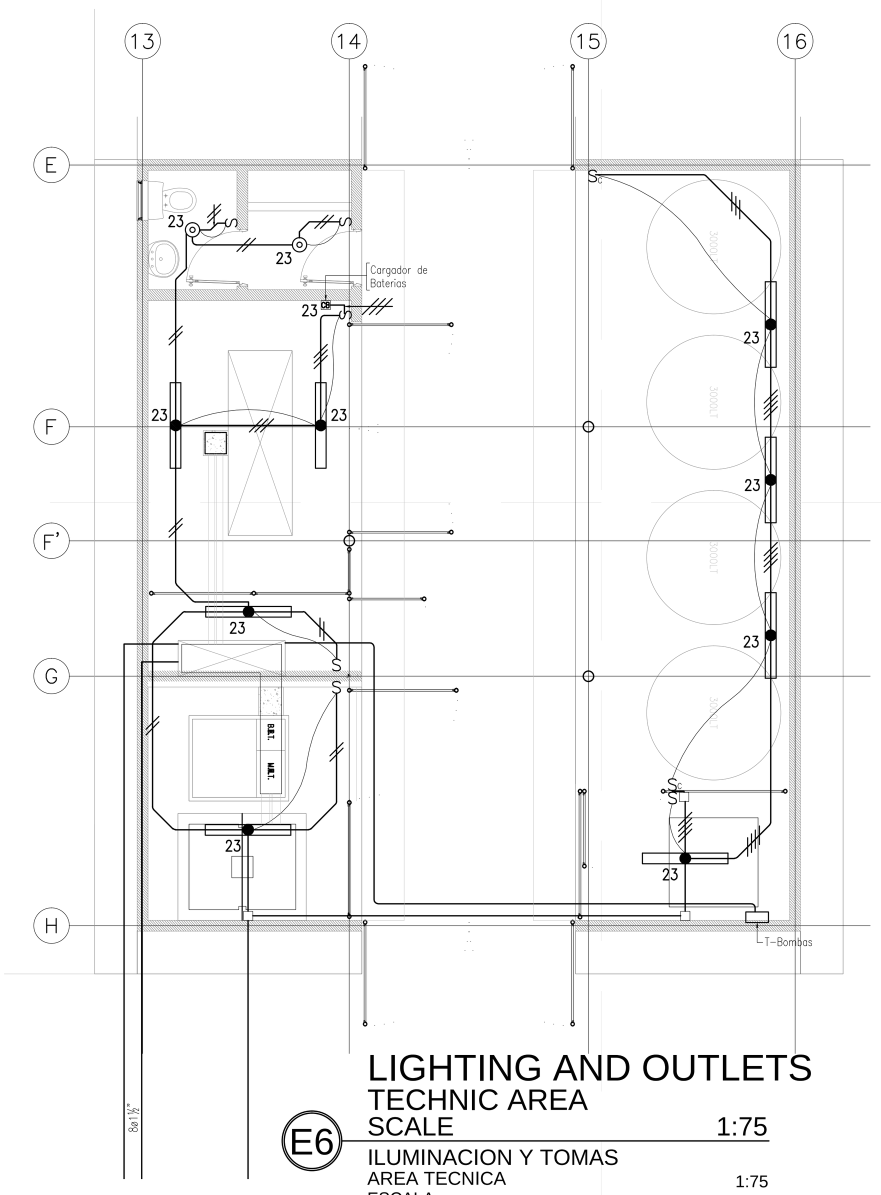
DRAWING DATE: JUNE 13/2013



OUTLETS
FLOOR PLAN
SCALE 1:75

E5

SALIDAS
PLANTA CUBIERTA
ESCALA 1:75



LIGHTING AND OUTLETS
TECHNIC AREA
SCALE 1:75

E6

ILUMINACION Y TOMAS
AREA TECNICA
ESCALA 1:75

FASES	A	B	C	
T-1.1				
CIRCUITOS	1	2	3	
	4	5	6	
	7	8	9	
	10	11	12	
	13	14	15	
	16	17	18	
	19	20	21	
	22	23	24	
CARGA VA	7420	6900	6840	21160

FASES	B	A	C	
T-1.2				
CIRCUITOS	1	2	3	
	4	5	6	
	7	8	9	
	10	11	12	
	13	14	15	
	16	17	18	
	19	20	21	
	22	23	24	
	25	26		
CARGA VA	7900	7680	7020	22600

FASES	C	B	A	
T-2.1				
CIRCUITOS	1	2	3	
	4	5	6	
	7	8	9	
	10	11	12	
	13	14	15	
	16	17	18	
	19	20	21	
	22			
CARGA VA	7360	6600	6240	20100

FASES	A	B	C	
T-2.2				
CIRCUITOS	1	2	3	
	4	5	6	
	7	8	9	
	10	11	12	
	13	14	15	
	16	17	18	
	19	20	21	
	22	23		
CARGA VA	7360	6600	6540	20500

TAA-1.1			
FASES	B	C	A
CIRCUITOS BIFASICOS	1	2	3
	4	5	6
	7	8	9
	10	11	12
	13	14	15
	16	17	18
	19	20	

TAA-2.1			
FASES	A	B	C
CIRCUITOS BIFASICOS	1	2	3
	4	5	6
	7	8	9
	10	11	12
	13	14	15
	16	17	18
	19	20	

TAA-1.2			
FASES	B	C	A
CIRCUITOS BIFASICOS	1	2	3
	4	5	6
	7	8	9
	10	11	12
	13	14	15
	16	17	18
	19	20	

TAA-2.2			
FASES	A	C	B
CIRCUITOS BIFASICOS	1	2	3
	4	5	6
	7	8	9
	10	11	12
	13	14	15
	16	17	18
	19	20	

RESUMEN	A	B	C
CARGA POR FASE V.A	7420	6900	6840
	7680	7900	7020
	6240	6600	7360
	7360	6600	6540
TOTAL	28700	28000	27760

RESUMEN	A-B	B-C	C-A	
Nº AA	13	14	13	
POTENCIA KVA	18.98	20.44	18.98	58.40

Phase Balance
SCALE NONE

T3

Balance de Fases
ESCALA NINGUNA

TABLERO	CIRCUITOS	AIRE ACONDICIONADO	CARGA VA.	AUTOMATICOS AMPS	OBSERVACIONES
AA1-1	1-2	1	1460	2x20	
	3-4	1	1460	2x20	
	5-6	1	1460	2x20	
	7-8	1	1460	2x20	
	9-10	1	1460	2x20	
	11-12	1	1460	2x20	
	13-14	1	1460	2x20	
	15-16	1	1460	2x20	
	17-18	1	1460	2x20	
	19-20	1	1460	2x20	
	TOTAL	10	14600	Alim.ø	ø1 ½⊞ 3x4+6+8T
AA 1-2	1-2	1	1460	2x20	
	3-4	1	1460	2x20	
	5-6	1	1460	2x20	
	7-8	1	1460	2x20	
	9-10	1	1460	2x20	
	11-12	1	1460	2x20	
	13-14	1	1460	2x20	
	15-16	1	1460	2x20	
	17-18	1	1460	2x20	
	19-20	1	1460	2x20	
	TOTAL	10	14600	Alim.ø	ø1 ½⊞ 3x4+6+8T

TABLERO	CIRCUITOS		CARGA VA.	AUTOMATICOS AMPS	OBSERVACIONES
AA 2-1	1-2	1	1460	2x20	
	3-4	1	1460	2x20	
	5-6	1	1460	2x20	
	7-8	1	1460	2x20	
	9-10	1	1460	2x20	
	11-12	1	1460	2x20	
	13-14	1	1460	2x20	
	15-16	1	1460	2x20	
	17-18	1	1460	2x20	
	19-20	1	1460	2x20	
	TOTAL	10	14600	Alim.ø	ø1 ½⊞ 3x4+6+8T
AA 2-2	1-2	1	1460	2x20	
	3-4	1	1460	2x20	
	5-6	1	1460	2x20	
	7-8	1	1460	2x20	
	9-10	1	1460	2x20	
	11-12	1	1460	2x20	
	13-14	1	1460	2x20	
	15-16	1	1460	2x20	
	17-18	1	1460	2x20	
	19-20	1	1460	2x20	
	TOTAL	10	14600	Alim.ø	ø1 ½⊞ 3x4+6+8T

AIR CONDITIONING CIRCUIT BOARD
SCALE NONE

T2

CUADRO DE CIRCUITOS AIRE ACONDICIONADO
ESCALA NINGUNA

TABLERO	CIRCUITOS	LAMPARA INCRUSTADA TIPO BALA 60 VA.	FAROL TIPO TABACO 60 VA.	APLIQUE 60 VA.	LUMINARIA FLUORECENTE 2x28W 60 VA.	TOMACORRIENTES DE MURO 180 VA.	TOMACORRIENTES GFCI 180 VA.	VENTILADOR 100 VA.	CARGA VA.	AUTOMATICOS AMPS	OBSERVACIONES
1-1	1	6				3		1	1000	1x20	
	2					4	1		900	1x20	
	3	6				3		1	1000	1x20	
	4					4	1		900	1x20	
	5	6				3		1	1000	1x20	
	6					4	1		900	1x20	
	7	6				3		1	1000	1x20	
	8					4	1		900	1x20	
	9	6				3		1	1000	1x20	
	10					4	1		900	1x20	
	11	6				3		1	1000	1x20	
	12					4	1		900	1x20	
	13	6				3		1	1000	1x20	
	14					4	1		900	1x20	
	15	6				3		1	1000	1x20	
	16					4	1		900	1x20	
	17	6				3		1	1000	1x20	
	18					4	1		900	1x20	
	19	6				3		1	1000	1x20	
	20					4	1		900	1x20	
	21	6				1			540	1x20	
	22	5		1		2			720	1x20	
	23	2			3				300	1x20	
	24				4	1+1°			600	1x20	° CARGADOR DE BATERIAS
	25										
	26										
	27										
	28										
	TOTAL	73		1	7	74+1°	10	10	21160	Alim.ø	ø1 ½⊞ 3x4+6+8T
1-2	1	6				3		1	1000	1x20	
	2					4	1		900	1x20	
	3	6				3		1	1000	1x20	
	4					4	1		900	1x20	
	5	6				3		1	1000	1x20	
	6					4	1		900	1x20	
	7	6				3		1	1000	1x20	
	8					4	1		900	1x20	
	9	6				3		1	1000	1x20	
	10					4	1		900	1x20	
	11	6				3		1	1000	1x20	
	12					4	1		900	1x20	
	13	6				3		1	1000	1x20	
	14					4	1		900	1x20	
	15	6				3		1	1000	1x20	
	16					4	1		900	1x20	
	17	6				3		1	1000	1x20	
	18					4	1		900	1x20	
	19	6				3		1	1000	1x20	
	20					4	1		900	1x20	
	21	8				1			660	1x20	
	22	5		1		2			720	1x20	
	23		8	2					600	1x20	
	24		7	4					660	1x20	
	25		8						480	1x20	
	26		8						480	1x20	
	27										
	28										
	TOTAL	73	31	7		73	10	10	22600	Alim.ø	ø1 ½⊞ 3x4+6+8T

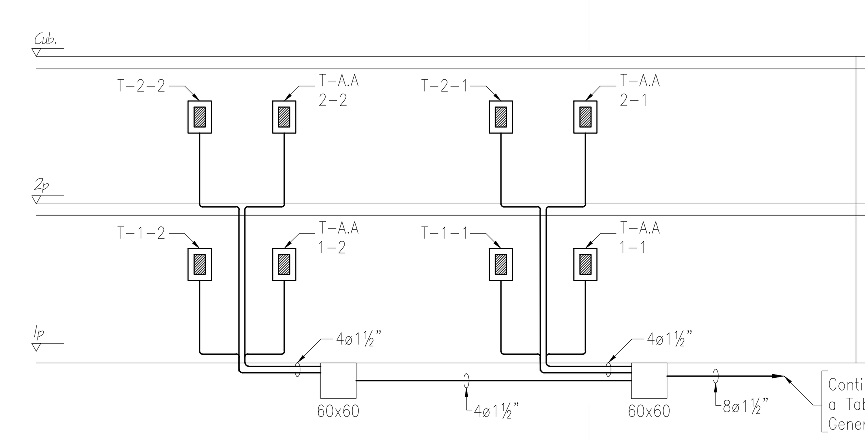
TABLERO	CIRCUITOS	LAMPARA INCRUSTADA TIPO BALA 60 VA.	FAROL TIPO TABACO 60 VA.	APLIQUE 60 VA.	LUMINARIA FLUORECENTE 2x26W 60 VA.	TOMACORRIENTES DE MURO 180 VA.	TOMACORRIENTES GFCI 180 VA.	VENTILADOR 100 VA.	CARGA VA.	AUTOMATICOS AMPS	OBSERVACIONES
2-1	1	6				3		1	1000	1x20	
	2					4	1		900	1x20	
	3	6				3		1	1000	1x20	
	4					4	1		900	1x20	
	5	6				3		1	1000	1x20	
	6					4	1		900	1x20	
	7	6				3		1	1000	1x20	
	8					4	1		900	1x20	
	9	6				3		1	1000	1x20	
	10					4	1		900	1x20	
	11	6				3		1	1000	1x20	
	12					4	1		900	1x20	
	13	6				3		1	1000	1x20	
	14					4	1		900	1x20	
	15	6				3		1	1000	1x20	
	16					4	1		900	1x20	
	17	6				3		1	1000	1x20	
	18					4	1		900	1x20	
	19	6				3		1	1000	1x20	
	20					4	1		900	1x20	
	21	6				1			540	1x20	
	22	5				2			660	1x20	
	23										
	24										
	25										
	26										
	27										
	28										
	TOTAL	71				73	10	10	20200	Alim.ø	ø1 ½⊞ 3x4+6+8T
2-2	1	6				3		1	1000	1x20	
	2					4	1		900	1x20	
	3	6				3		1	1000	1x20	
	4					4	1		900	1x20	
	5	6				3		1	1000	1x20	
	6					4	1		900	1x20	
	7	6				3		1	1000	1x20	
	8					4	1		900	1x20	
	9	6				3		1	1000	1x20	
	10					4	1		900	1x20	
	11	6				3		1	1000	1x20	
	12					4	1		900	1x20	
	13	6				3		1	1000	1x20	
	14					4	1		900	1x20	
	15	6				3		1	1000	1x20	
	16					4	1		900	1x20	
	17	6				3		1	1000	1x20	
	18					4	1		900	1x20	
	19	6				3		1	1000	1x20	
	20					4	1		900	1x20	
	21	8				1+1			840	1x20	* TOMA DE SOBREPONER
	22	5				2			660	1x20	
	23										
	24										
	25										
	26										
	27										
	28										
	TOTAL	73				73+1	10	10	20500	Alim.ø	ø1 ½⊞ 3x4+6+8T

GENERAL CIRCUIT BOARD
SCALE NONE

T1

CUADRO GENERAL DE CIRCUITOS
ESCALA NINGUNA

BOARDS AND FEEDERS
TABLEROS Y ALIMENTADORES

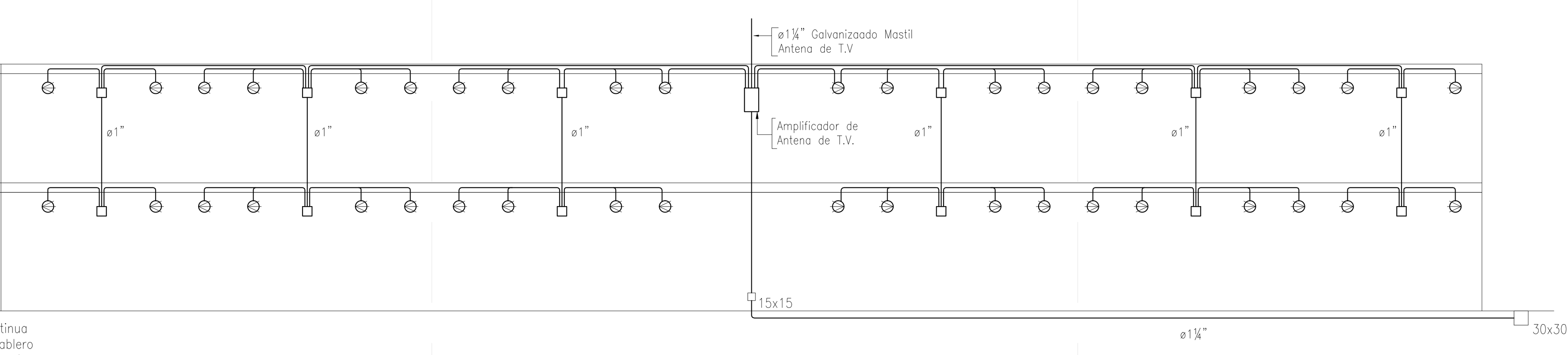


VERTICAL DIAGRAM
SCALE NONE

C1

ESQUEMA VERTICAL
ESCALA NINGUNA

TELEVISION OUTLETS
SALIDAS DE TELEVISION



LEGEND
CONVENCIONES

SWITCHES	INTERRUPTORES
SINGLE, DOUBLE OR TRIPLE.	SENCILLO, DOBLE ó TRIPLE.
SINGLE AND DOUBLE COMMUTABLE	CONMUTABLE SENCILLO Y DOBLE
COMMUTABLE MORE SINGLE	CONMUTABLE MAS SENCILLO
SWITCHES BOX	CAJA DE INTERRUPTORES
CONTROLLED CLOCK	PULSADOR CONTROLADO POR RELOJ
CONTROL LIGHTS CLOCK	RELOJ CONTROL LUCES
REMOTE SWITCH	PULSADOR REMOTO
CEILING PRESENCE DETECTOR	DETECTOR DE PRESENCIA EN TECHO
SINGLE + SINGLE SOCKET	SENCILLO + TOMA SENCILLA
COMMUTABLE + BELL BUTTON	CONMUTABLE + BOTON TIMBRE

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
CEILING (LIGHT SOCKET)	DE TECHO(ROSETA).
WALL	DE MURO
EMBEDDED BULLET	INCRUSTADA BALA
HALF LIGHT	LUZ DE PENUMBRA
HALOGEN BULLET	BALA HALOGENA
LANTERN	FAROL
SPOTLIGHT	PROYECTOR
SIGNS	AVISO
INSPECCION BOX EARTH	CAJA DE INSPECCION DE TIERRA

COMMUNICATION OUTLETS	SALIDAS DE COMUNICACION
FIRE DETECTOR	DETECTOR DE INCENDIOS
TV. OUTLET	SALIDA T.V

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE	
	T-8	T-12
	W 1x17	W 1x20
	2x17	2x20
	1x32	1x40
	2x32	2x40
	2x32	2x40
	4x32	2x75
MODULE 2'x2' / MODULO 2'x2'	3x17 o 4x17	2x40
DERIVATION POINT	PUNTO DE DERIVACION	
HAND DRYER h=1.3	SECADOR DE MANOS h=1.3	

OUTLETS	SALIDA PARA TOMACORRIENTE
DUPLEX WALL GFCI	DOBLE DE MURO GFCI
DUPLEX WALL	DOBLE DE MURO
BATTERY CHARGER	CARGADOR DE BATERIAS
SWITCH CONTROLLED	CONTROLADA POR INTERRUPTOR
THREE PHASE	TRIFASICA
FAN CONTROL	CONTROL DE VENTILADOR

SPECIALNT EQUIPMENT	EQUIPOS ESPECIALES
CEILING FAN	VENTILADOR DE TECHO
MINISPLIT AIRE 220 Volt	AIRE MINISPLIT 220 Volt
CONDENSING UNIT	UNIDAD CONDENSADORA
FIRE AND CARBON MONOXIDE DETECTOR	DETECTOR DE HUMO Y MONOXIDO DE CARBONO
CONCRETE POST 12M 1050	POSTE EN CONCRETO 12M 1050
GROUNDING	PUESTA A TIERRA
TIE	TEMPLETE
TRANSFORMER	TRANSFORMADOR

CONDUIT PIPES	TUBERIA CONDUIT
ELECTRICAL	ELECTRICA
CEILING AND WALL FLOOR	TECHO Y MUROS PISO
TELEPHONE	TELEFONO
ANTENNA TV, CCTV, NETWORK	ANTENA TV Y/O CCTV
DOORPHONE	CITOFONO
SOUND	SONIDO
FIRE	INCENDIO
COMMUNICATIONS, VOICE AND DATA SYSTEM	RED VOZ Y DATOS
REMOTE CONTROL	CONTROL REMOTO
MICROPHONE	MICROFONO
BOARD h.inf.=1.2 AUTOMATICS	TABLERO h.inf.=1.2 AUTOMATICOS

SHEET: E-3

EMBASSY OF THE UNITED STATES
INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT- I.N.L
BOGOTA - COLOMBIA

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MANAGED BY:
I.N.L
INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT EMBASSY OF THE UNITED STATES.
BOGOTA, COLOMBIA

COR:
ENGINEER FRANCISCO CABRERA

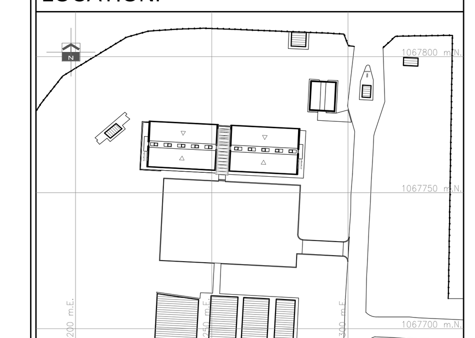
A & E DESIGN FIRM:

DIAZ VILLEGAS ARQUITECTOS
www.diazvillegasarquitectos.com
TELEFONO: 2188907 - 2188809
ARQUITECTO JORGE DIAZ VILLEGAS

PROJECT:
A&E DESIGN FOR A NEW LODGING BUILDING AT THE CNP AVIATION SCHOOL IN MARIQUITA, TOLIMA.

CONTRACT NUMBER:	CONTRACT DATE:
SCO150-13-M-0291	JANUARY 28, 2013
PURCHASE ORDER:	
SCO150-13-M-0291	

LOCATION:



LEGEND:
SEE LEGEND IN DRAWING AREA

OBSERVATIONS:
ALL LEVELS AND DIMENSIONS MUST BE VERIFIED ON SITE BY THE BUILDING CONTRACTOR.
ALL UNITS ARE IN METRIC SYSTEM.

REVISIONS:

No.	SUBMITTAL	DATE
1	10 % SUBMITTAL	12.02.2013
2	35% SUBMITTAL	08.03.2013
3	60% SUBMITTAL	08.03.2013
4	90% SUBMITTAL	25.04.2013
5	100% SUBMITTAL	13.06.2013

PHASE:
☐10% ☐35% ☐60% ☐90% ■100%

CONTENIDO:
PLANTA DE CUBIERTAS. SALIDAS
CUADRO DE CIRCUTOS
ESQUEMA VERTICAL

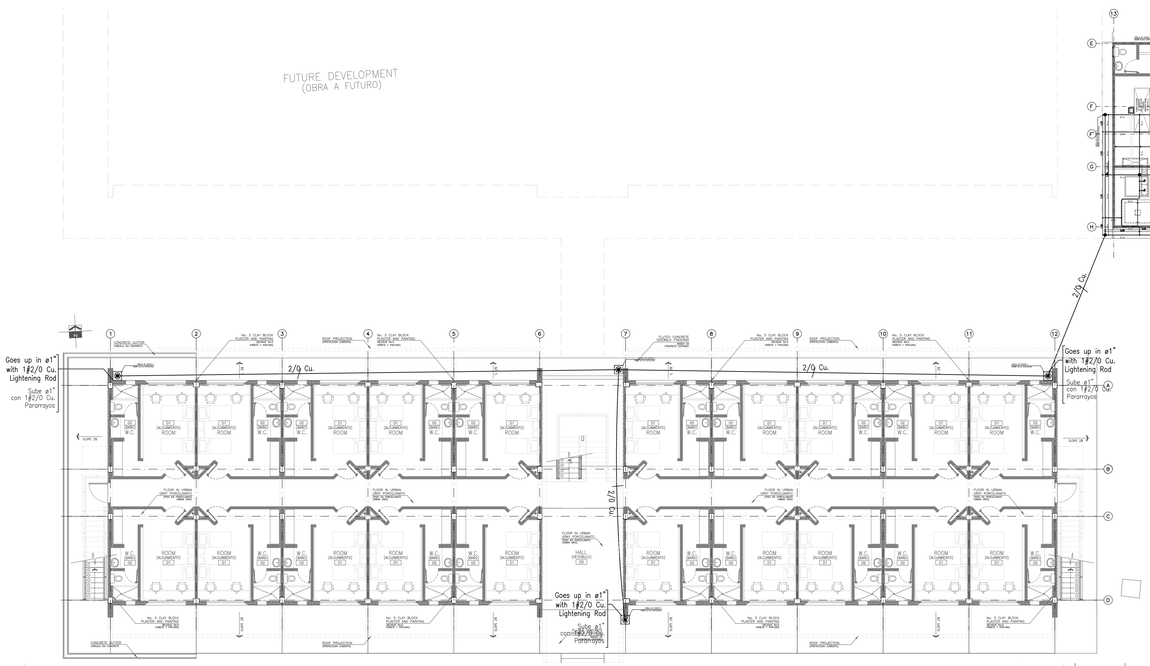
CONTENTS:
OUTLETS. ROOF PLAN
CIRCUIT BOARD
VERTICAL DIAGRAM

SHEET PLAN: 77-E-1-2-3.dwg
SCALE: 1:75

SHEET: E-3

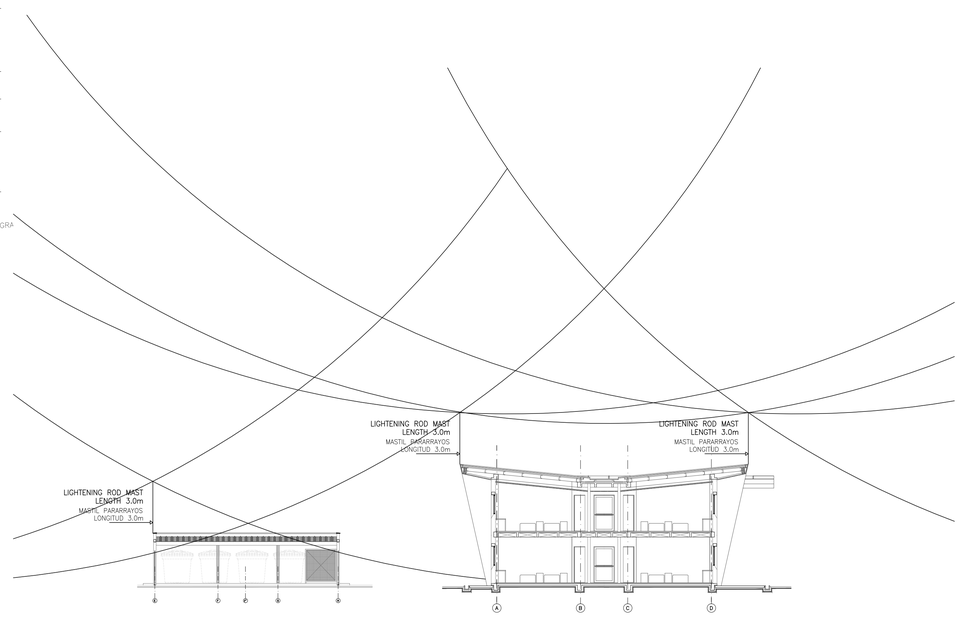
DESIGNED BY: Eng. Julio Cesar Garc²a
PROFFESION: Electrical Engineer
PROFFESIONAL CARD: 205-12713 CND
SIGNATURE:

DRAWING DATE: JUNE 13/2013



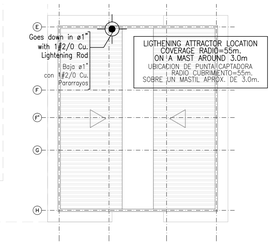
ATMOSPHERIC PROTECTION
FIRST FLOOR PLAN
E6 SCALE 1:150

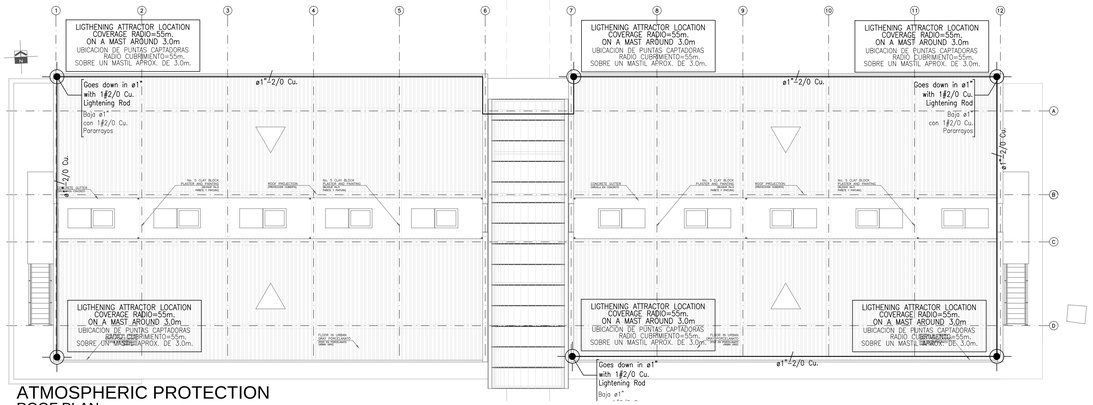
PROTECCION ATMOSFERICA
PLANTA PRIMER PISO
ESCALA 1:150



ATMOSPHERIC PROTECTION
SECTION
C1 SCALE 1:150

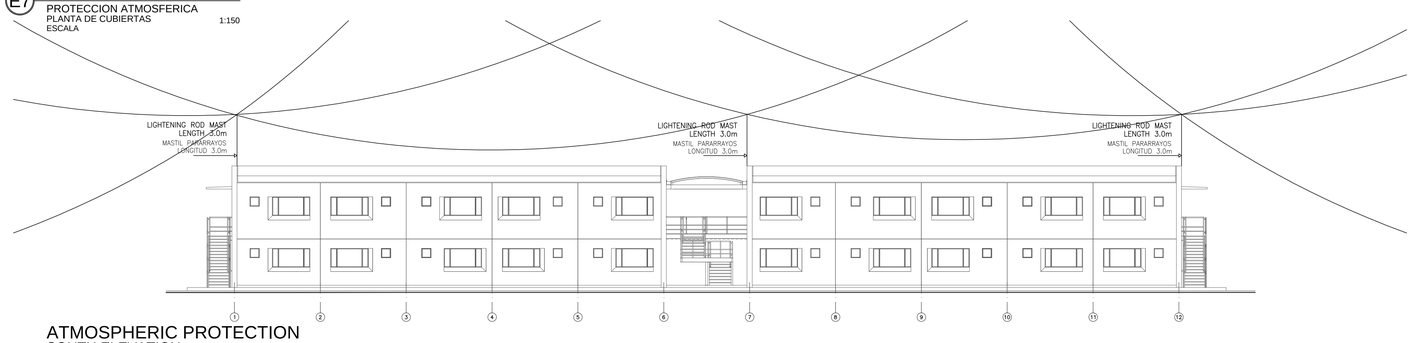
PROTECCION ATMOSFERICA
CORTE
ESCALA 1:150





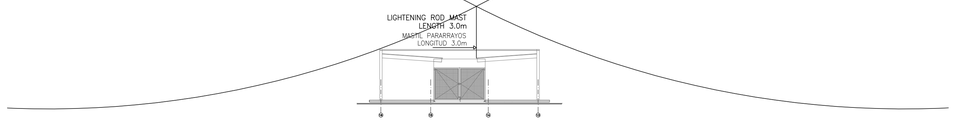
ATMOSPHERIC PROTECTION
ROOF PLAN
E7 SCALE 1:150

PROTECCION ATMOSFERICA
PLANTA DE CUBIERTAS
ESCALA 1:150



ATMOSPHERIC PROTECTION
SOUTH ELEVATION
F1 SCALE 1:150

PROTECCION ATMOSFERICA
FACHADA SUR
ESCALA 1:150



ATMOSPHERIC PROTECTION
SECTION
C2 SCALE 1:150

PROTECCION ATMOSFERICA
CORTE
ESCALA 1:150

ATMOSPHERIC DISCHARGES PROTECTION
COMPLYING NFC 17–102 FRENCH REGULATION
AND UNE 21–186 EUROPEAN UNION REGULATION

CONDUCTORS MUST COMPLY UL 96 REGULATION.

THE CONDUCTORS IN THE DOWNPIPES MUST GO IN PVC PIPES 12 DIAMETER AND IN ALL CASES THE GOING DOWN MUST BE COORDINATED WITH THE STRUCTURE

ROD	DOWNPIPE
ATTRACTOR	COPPER 2/0

THE GROUNDING SYSTEM CONDUCTORS SHALL BE IN BARE COPPER 2/0 GAUGE AND THEY MUST BE BURIED UNDER THE GROUND LEVEL

THE EMBED CONDUCTORS OF THE GROUNDING SYSTEM CAN'T BE TENSIONED TO AVOID DAMAGES OR STRESS

WHEN THE GROUNDING CONDUCTORS PASS THROUGH A CONCRETE SLAB, THEY MUST BE PROTECTED WITH A ø1" PVC PIPE USING ADAPTERS IN BOTH ENDS

6 LIGHTENING ATTRACTORS SHALL BE INSTALLED IN THE ROOF, ON 3.00m MASTS.

PROTECCION CONTRA DESCARGAS ATMOSFERICAS
SEGUN NORMAS FRANCESA NFC 17–102
Y LA NORMA DE LA UNION EUROPEA UNE 21–186

LOS CONDUCTORES DEBEN CUMPLIR CON LA NORMA UL 96.

LOS CONDUCTORES DE LAS BAJANTES SERAN EN TUBERIA EN PVC DIAMETRO 1" Y EN TODOS LOS CASOS LAS BAJADAS DEBEN COORDINARSE CON LA ESTRUCTURA.

PUNTAS	BAJANTE
CAPTADORAS	COBRE 2/0

LOS CONDUCTORES DEL SISTEMA DE PUESTA A TIERRA EN TERRENO DEBEN SER DE COBRE DESNUDO CALIBRE 2/0 Y DEBERAN ESTAR ENTERRADOS BAJO EL NIVEL DEL TERRENO,

LOS CONDUCTORES ENTERRADOS, CORRESPONDIENTES AL SISTEMA DE PUESTA A TIERRA, NO DEBERAN ESTAR TENSIONADOS PARA PREVENIR DAÑOS O ESFUERZOS.

EN LAS PARTES DONDE LOS CONDUCTORES A TIERRA SUBAN A UN EQUIPO ELECTRICO, A TRAVES DE LOZAS DE CONCRETO, EL CONECTOR DEBERA PROTEGERSE MEDIANTE DUCTOS NO MAGNETICOS DE PVC DE ø1", CON ADAPTADORES EN AMBOS EXTREMOS.

EN LA CUBIERTA SE INSTALARAN 6 PUNTAS CAPTADORAS, UBICADAS EN MASTILES DE 3m.

LEGEND
CONVENCIONES

	SWITCHES	INTERRUPTORES
S3 S2 S	SINGLE, DOUBLE OR TRIPLE	SENCILLO, DOBLE Y TRIPLE
Sc Sac	SINGLE AND DOUBLE COMMUTABLE	CONMUTABLE SENCILLO Y DOBLE
Sc	COMMUTABLE MORE SINGLE	CONMUTABLE MAS SENCILLO
S	SWITCHES BOX	CAJA DE INTERRUPTORES
Sh	CONTROLLED CLOCK	PULSADOR CONTROLADO POR RELOJ
R	CONTROL LIGHTS CLOCK	RELOJ CONTROL LUCES
SR	REMOTE SWITCH	PULSADOR REMOTO
SM	CEILING PRESENCE DETECTOR	DETECTOR DE PRESENCIA EN TECHO
S1	SINGLE + SINGLE SOCKET	SENCILLO + TOMA SENCILLA
SC	COMMUTABLE + BELL BUTTON	CONMUTABLE + BOTON TIMBRE

	FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
	CEILING (LIGHT SOCKET)	DE TECHO(ROSETA)
	WALL	DE MURO
	EMBEDDED BULLET	INCRUSTADA BALA
	HALF LIGHT	LUZ DE PENUMBRA
H	HALOGEN BULLET	BALA HALOGENA
	LANTERN	FAROL
	SPOTLIGHT	PROYECTOR
	SIGNS	AVISO
	INSPECCION BOX EARTH	CAJA DE INSPECCION DE TIERRA

	COMMUNICATION OUTLETS	SALIDAS DE COMUNICACION
	FIRE DETECTOR	DETECTOR DE INCENDIOS
TV	TV. OUTLET	SALIDA T.V

	FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE	
		T-8	T-12
		W 1x17	W 1x20
	2x17	2x20	
	1x32	1x40	
	2x32	2x40	
	2x32	2x40	
	4x32	2x75	
	MODULE 2'x2'	MODULO 2'x2'	3x17 ó 4x17	2x40
	DERIVATION POINT	PUNTO DE DERIVACION		
	HAND DRYER hn1.3	SECADOR DE MANOS hn1.3		

	OUTLETS	SALIDA PARA TOMACORRIENTE
	DUPLEX WALL GFCI	DOBLE DE MURO GFCI
	DUPLEX WALL	DOBLE DE MURO
	BATTERY CHARGER	CARGADOR DE BATERIAS
	SWITCH CONTROLLED	CONTROLADA POR INTERRUPTOR
	THREE PHASE	TRIFASICA
	FAN CONTROL	CONTROL DE VENTILADOR

	SPECIALNT EQUIPMENT	EQUIPOS ESPECIALES
	CEILING FAN	VENTILADOR DE TECHO
MS	MINISPLIT AIRE 220 Volt	AIRE MINISPLIT 220 Volt
	CONDENSING UNIT	UNIDAD CONDENSADORA
	FIRE AND CARBON MONOXIDE DETECTOR	DETECTOR DE HUMO Y MONOXIDO DE CARBONO
	CONCRETE POST 12M 1050	POSTE EN CONCRETO 12M 1050
	GROUNDING	PUESTA A TIERRA
	TIE	TEMPLETE
	TRANSFORMER	TRANSFORMADOR

	CONDUIT PIPES	TUBERIA CONDUIT
	ELECTRICAL	ELECTRICA
	CEILING AND WALL FLOOR	TECHO Y MUROS PISO
	TELEPHONE	TELEFONO
	ANTENNA TV; CCTV, NETWORK	ANTENA TV Y/O CCTV
	DOORPHONE	CITOFONO
	SOUND	SONIDO
	FIRE	INCENDIO
	COMMUNICATIONS, VOICE AND DATA SYSTEM	RED VOZ Y DATOS
	REMOTE CONTROL	CONTROL REMOTO
	MICROPHONE	MICROFONO
	BOARD h.ref.=1.2 AUTOMATICS	TABLERO h.ref.=1.2 AUTOMATICOS

SHEET: E-4

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INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT - I.N.L
BOGOTA - COLOMBIA

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INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT EMBASSY OF THE UNITED STATES.
BOGOTA, COLOMBIA

COR:
ENGINEER FRANCISCO CABRERA

A & E DESIGN FIRM:
DIAZ VILLEGAS ARQUITECTOS
www.diazvillegasarquitectos.com
TELEFONO: 2188907 - 2188809
ARQUITECTO JORGE DIAZ VILLEGAS

PROJECT:
A&E DESIGN FOR A NEW LODGING BUILDING AT THE CNP AVIATION SCHOOL IN MARIQUITA, TOLIMA.

CONTRACT NUMBER:	CONTRACT DATE:
SCO150-13-M-0291	JANUARY 28, 2013

PURCHASE ORDER:
SCO150-13-M-0291

LOCATION:

LEGEND:
SEE LEGEND IN DRAWING AREA

OBSERVATIONS:
ALL LEVELS AND DIMENSIONS MUST BE VERIFIED ON SITE BY THE BUILDING CONTRACTOR.

ALL UNITS ARE IN METRIC SYSTEM.

REVISIONS:

No.	SUBMITTAL	DATE
1	10 % SUBMITTAL	12.02.2013
2	35% SUBMITTAL	08.03.2013
3	60% SUBMITTAL	08.03.2013
4	90% SUBMITTAL	25.04.2013
5	100% SUBMITTAL	13.06.2013

PHASE:
☐10% ☐35% ☐60% ☐90% ■100%

CONTENIDO:
PROTECCION CONTRA DESCARGAS ELECTRICA ATMOSFERICAS

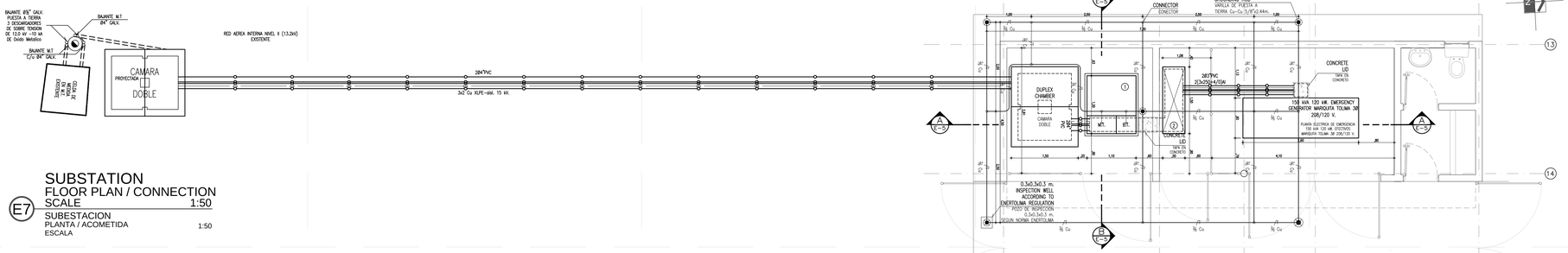
CONTENTS:
ATMOSPHERIC PROTECTION

SHEET PLAN:	SCALE:
77-E-4.dwg	1:125

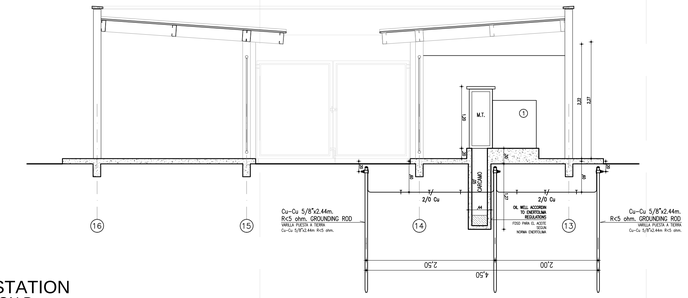
SHEET: E-4

DRAWING DATE: JUNE 13/2013

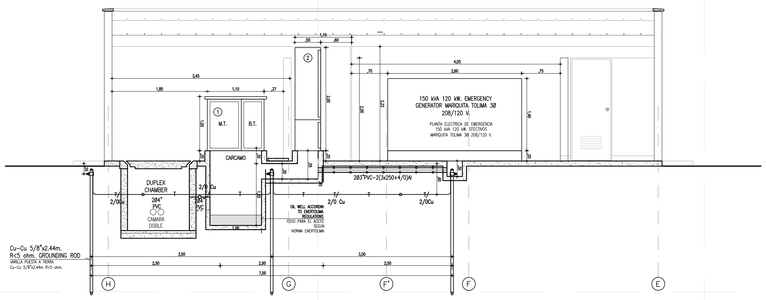
DESIGNED BY: Eng. Julio Cesar Garcła
PROFFESION: Electrical Engineer
PROFFESIONAL CARD: 205-12713 CND
SIGNATURE:



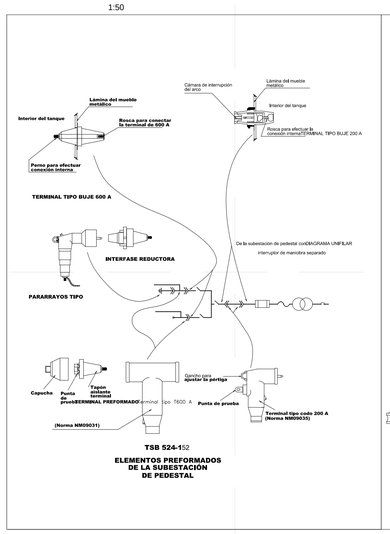
SUBSTATION
FLOOR PLAN / CONNECTION
E7 SCALE 1:50
SUBESTACION
PLANTA / ACOMETIDA
ESCALA 1:50

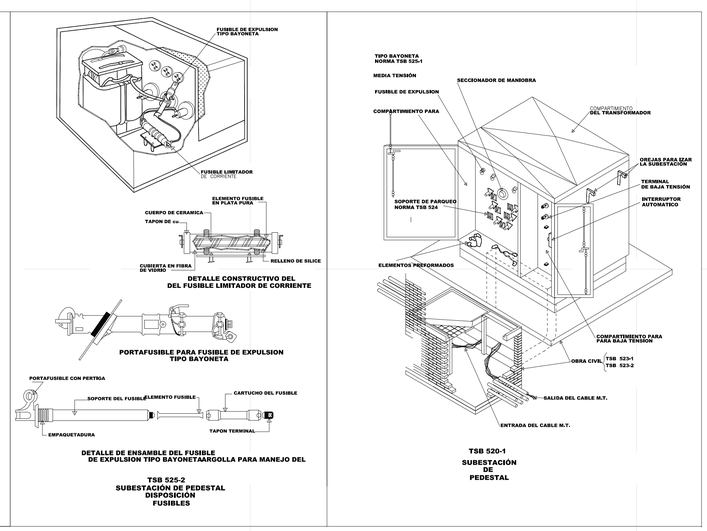


SUBSTATION
SECTION B
B SCALE 1:50
SUBESTACION
CORTE B
ESCALA 1:50

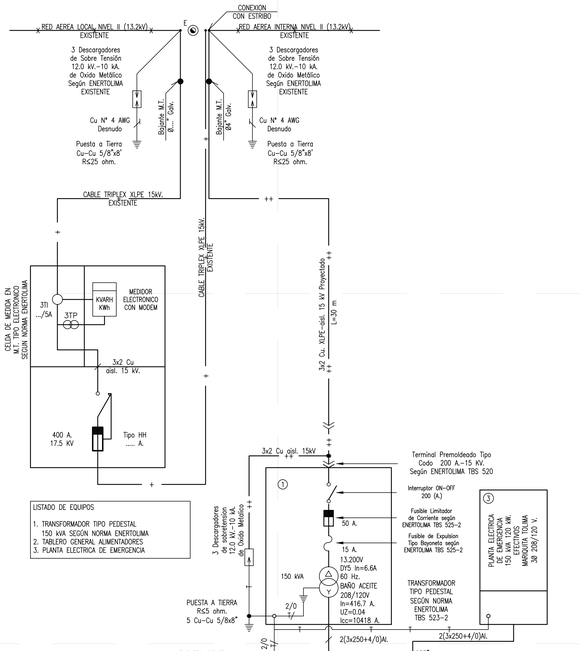


SUBSTATION
SECTION A
A SCALE 1:50
SUBESTACION
CORTE A
ESCALA 1:50





SUBSTATION
MOUNTING DETAILS
D1 SCALE NONE
SUBESTACION
DETALLES DE MONTAJE
ESCALA NINGUNA



LISTADO DE EQUIPOS
1. TRANSFORMADOR TIPO PEDESTAL 150 kVA SEGÚN NORMA ENERTOLIMA
2. TABLERO GENERAL ALIMENTADORES
3. PLANTA ELECTRICA DE EMERGENCIA

SINGLE LINE
DIAGRAM
C3 SCALE NONE
DIAGRAMA
UNIFILAR
ESCALA NINGUNA

LEGEND
TO BUILD / NETWORK / EXISTING

UNDERGROUND L.T. SYSTEM
AERIAL M.T. SYSTEM
UNDERGROUND M.T. SYSTEM
CIRCUIT END.
GROUNDING.
OVERTENSION DISCHARGERS

POLES
510 kg. LINE TYPE 12m CONCRETE POLE
750 kg. 12m REINFORCED CONCRETE POLE
1050 kg. 12m EXTRA REINFORCED CONCRETE POLE
A.P. STRAIGHT TYPE 12m CONCRETE POLE

SUBSTATIONS
USER DISTRIBUTION BOARD.
GENERAL CONNECTIONS BOARD
L.T METER EQUIPMENT BOX
M.T. METER CELL
PEDESTAL SUBSTATION.
METER CABINET.
THREE PHASE TRANSFORMER.

INSPECTION CHAMBERS
L.T AND M.T SINGLE INSPECTION CHAMBER
L.T AND M.T. DUPLEX INSPECTION CHAMBER

DUCT NETWORK
TWO Ø3" DUCTS
FOUR Ø4" DUCTS
SIX Ø4" DUCTS

SINGLE LINE DIAGRAM SYMBOLS
LOAD–BREAK THREE POLE SWITCHES
FUSE LOAD–BREAK THREE POLE SWITCHES
DISTRIBUTION TRANSFORMER
M.T CURRENT FUSE LIMITER
L.T AUTOMATIC BREAKER
GENERATOR
AUTOMATIC TRANSFORMER SWITCH (ELECTROMECHANIC INTERLOCK).
TRANSFERENCE MODULE
GROUNDING ROD

CONVENCIONES
PROYECTADO / REDES / EXISTENTE

RED DE B.T. SUBTERRANEA.
RED DE M.T. AEREA.
RED DE M.T. SUBTERRANEA.
FINAL DE CIRCUITO.
LINEA A TIERRA.
DESCARGADORES DE SOBRE TENSION

POSTERIA
POSTE DE CONCRETO DE 12m, TIPO LINEA 510 kg.
POSTE DE CONCRETO DE 12m, REFORZADO 750 kg.
POSTE DE CONCRETO DE 12m, EXTRAREFORZADO 1050 kg.
POSTE DE CONCRETO DE 12m, TIPO RECTO PARA A.P.

SUBESTACIONES
TABLERO DE DISTRIBUCION DEL USUARIO.
TABLERO GENERAL DE ACOMETIDAS.
CAJA CON EQUIPO DE MEDIDA EN B.T.
CELDA DE MEDIDA EN M.T.
SUBESTACION DE PEDESTAL.
ARMARIO DE MEDIDORES.
TRANSFORMADOR TRIFASICO.

CAJAS DE INSPECCION
CAJA DE INSPECCION SENCILLA PARA REDES DE B.T. Y M.T. (CS 275).
CAJA DE INSPECCION DOBLE PARA REDES DE B.T. Y M.T. (CS 276).

REDES DE DUCTOS
DOS DUCTOS DE Ø3"
CUATRO DUCTOS DE Ø4"
SEIS DUCTOS DE Ø4"

REPRESENTACION UNIFILAR
SECCIONADOR TRIPOLAR DE OPERACION BAJO CARGA.
SECCIONADOR TRIPOLAR DE OPERACION BAJO CARGA CON FUSIBLE.
TRANSFORMADOR DE DISTRIBUCION.
FUSIBLE LIMITADOR DE CORRIENTE DE M.T.
INTERRUPTOR AUTOMATICO EN B.T
PLANTA DE GENERACION.
CONMUTADOR AUTOMATICO DE TRANSFERENCIA (ENCLAVAMIENTO ELECTROMECANICO).
MODULO DE TRANSFERENCIA.
VARILLA DE PUESTA A TIERRA.

LEGEND
CONVENCIONES

SWITCHES		INTERRUPTORES
S-S2-S3	SINGLE, DOUBLE OR TRIPLE	SENCILLO, DOBLE ó TRIPLE
Sc-Sz	SINGLE AND DOUBLE COMMUTABLE	CONMUTABLE SENCILLO Y DOBLE
S TS	COMMUTABLE MORE SINGLE	CONMUTABLE MAS SENCILLO
	SWITCHES BOX	CAJA DE INTERRUPTORES
	CONTROLLED CLOCK	PULSADOR CONTROLADO POR RELOJ
	CONTROL LIGHTS CLOCK	RELOJ CONTROL LUCES
	REMOTE SWITCH	PULSADOR REMOTO
	CEILING PRESENCE DETECTOR	DETECTOR DE PRESENCIA EN TECHO
	SINGLE + SINGLE SOCKET	SENCILLO + TOMA SENCILLA
	COMMUTABLE + BELL BUTTON	CONMUTABLE + BOTON TIMBRE

FLUORESCENT LAMP OUTLET	SALIDA PARA LAMPARA FLUORESCENTE
CEILING (LIGHT SOCKET)	DE TECHO(ROSETA)
WALL	DE MURO
EMBEDDED BULLET	INCRUSTADA BALA
HALF LIGHT	LUZ DE PENUMBRA
HALOGEN BULLET	BALA HALOGENA
LANTERN	FAROL
SPOTLIGHT	PROYECTOR
SIGNS	AVISO
INSPECCION BOX EARTH	CAJA DE INSPECCION DE TIERRA

COMMUNICATION OUTLETS	SALIDAS DE COMUNICACION
FIRE DETECTOR	DETECTOR DE INCENDIOS
TV. OUTLET	SALIDA T.V

FLUORESCENT LAMP OUTLET		SALIDA PARA LAMPARA FLUORESCENTE
		T-8 T-12
		W 1x17 1x20
		2x17 2x20
		1x32 1x40
		2x32 2x40
		2x32 2x40
		4x32 2x75
MODULE 2'x2'	MODULO 2'x2'	3x17 4x17 2x40
DERIVATION POINT		PUNTO DE DERIVACION
HAND DRYER h=1.3		SECADOR DE MANOS h=1.3

OUTLETS	SALIDA PARA TOMACORRIENTE
DUPLEX WALL GFCI	DOBLE DE MURO GFCI
DUPLEX WALL	DOBLE DE MURO
BATTERY CHARGER	CARGADOR DE BATERIAS
SWITCH CONTROLLED	CONTROLADA POR INTERRUPTOR
THREE PHASE	TRIFASICA
FAN CONTROL	CONTROL DE VENTILADOR

SPECIALNT EQUIPMENT	EQUIPOS ESPECIALES
CEILING FAN	VENTILADOR DE TECHO
MINISPLIT AIRE 220 Volt	AIRE MINISPLIT 220 Volt
CONDENSING UNIT	UNIDAD CONDENSADORA
FIRE AND CARBON MONOXIDE DETECTOR	DETECTOR DE HUMO Y MONOXIDO DE CARBONO
CONCRETE POST 12M 1050	POSTE EN CONCRETO 12M 1050
GROUNDING	PUESTA A TIERRA
TIE	TEMPLETE
TRANSFORMER	TRANSFORMADOR

CONDUIT PIPES	TUBERIA CONDUIT
ELECTRICAL	ELECTRICA
CEILING AND WALL FLOOR	TECHO Y MUROS PISO
TELEPHONE	TELEFONO
ANTENNA TV, CCTV, NETWORK	ANTENA TV Y/O CCTV
DOORPHONE	CITOFONO
SOUND	SONIDO
FIRE	INCENDIO
COMMUNICATIONS, VOICE AND DATA SYSTEM	RED VOZ Y DATOS
REMOTE CONTROL	CONTROL REMOTO
MICROPHONE	MICROFONO
BOARD h.ref.=1.2 AUTOMATICS	TABLERO h.ref.=1.2 AUTOMATICOS

EMBASSY OF THE UNITED STATES
INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT- I.N.L
BOGOTA - COLOMBIA

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MANAGED BY:
I.N.L
INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT EMBASSY OF THE UNITED STATES.
BOGOTA, COLOMBIA

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A & E DESIGN FIRM:
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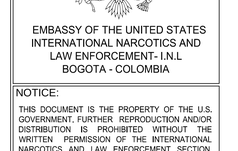
TELEFONO: 2188907 - 2188809
ARQUITECTO JORGE DIAZ VILLEGAS

PROJECT:
A&E DESIGN FOR A NEW LODGING BUILDING AT THE CNP AVIATION SCHOOL IN MARIQUITA, TOLIMA.

CONTRACT NUMBER:	CONTRACT DATE:
SCO150-13-M-0291	JANUARY 28, 2013

PURCHASE ORDER:
SCO150-13-M-0291

LOCATION:



LEGEND:
SEE LEGEND IN DRAWING AREA

OBSERVATIONS:
ALL LEVELS AND DIMENSIONS MUST BE VERIFIED ON SITE BY THE BUILDING CONTRACTOR.

ALL UNITS ARE IN METRIC SYSTEM.

REVISIONS:

No.	SUBMITTAL	DATE
1	10 % SUBMITTAL	12.02.2013
2	35% SUBMITTAL	08.03.2013
3	60% SUBMITTAL	08.03.2013
4	90% SUBMITTAL	25.04.2013
5	100% SUBMITTAL	13.06.2013

PHASE:
☐10% ☐35% ☐60% ☐90% ■100%

CONTENIDO:
SUBESTACION, ACOMETIDA ELECTRICA
DETALLES SUBESTACION
DIAGRAMA UNIFILAR

CONTENTS:
SUBSTATION, ELECTRIC CONNECTION
SUBSTATION DETAILS
SINGLE LINE DIAGRAM

SHEET PLAN:	SCALE:
77-E-5.dwg	IND

SHEET: E-5

DESIGNED BY:
Eng. Julio Cesar Garc*a
PROFFESION:
Electrical Engineer
PROFFESIONAL CARD:
205-12713 CND
SIGNATURE:

DRAWING DATE:
JUNE 13/2013