MATERIALES
MATERIALS

- CONCRETO TREMIE F'C = 21.0 MPA PILOTAJE
- TREMIE CONCRETE F'C = 21.0 MPA PILES
- CONCRETO F'C = 21.0 MPA CIMENTACIÓN, PLACA DE PISO DADOS, CUBIERTA DE ZONA DE OFICINAS
- CONCRETE F'C = 21.0 MPA, FOUNDATION SLAB ON GRADE, PILE CAPS AND ROOF SLAB OVER OFFICES
- CONCRETO F'C = 28.0 MPA PEDESTALES
- CONCRETE F'C = 28.0 MPA PEDESTALS
- REFUERZO FY = 420 MPA
- REINFORCING STEEL FY = 420 MPA
- MALLA ELECTROSOLDADAS FY=420 MPA.
- WELDED WIRE FABRIC WWF FY=420 MPA.
- PERNOS DE ANCLAJE: ASTM F-1554
- ANCHOR BOLTS: ASTM F-1554
- PLACA DE PISO: MÓDULO DE FLEXIÓN 600 PSI
- FUNDATION SLAB ON GRADE: FLEXURE MODULE 600 PSI
- SOLDADURA E70XX
- WELDING E70XX
- TORNILLOS: ASTM A-325M ASTM A-325 TIPO 1 FU = 740 MPA. SAE 2
- BOLTS: ASTM A-325M ASTM A-325 TYPE 1 FU = 740 MPA. SAE 2
- TUERCAS: ASTM A-563M ASTM A-563
- NUTS: ASTM A-563M ASTM A-563

NOTAS SOBRE SISTEMAS DE PROTECCIÓN
NOTES ON PROTECTION SYSTEMS

- LIMPIEZA CON CHORRO - GRADO COMERCIAL - SSPC SP6
- JET CLEANING - COMMERCIAL GRADE - SSPC SP6
- EL CONCRETO SERA IMPERMEABILIZADO PARA LOS TANQUE ENTERRADOS.
- CONCRETE WATERPROOFED FOR UNDERGROUND TANKS

NOTAS
NOTES

- GRUPO DE USO DE LA EDIFICACIÓN: I
- BUILDING GROUP USE: I
- SISTEMA CON CAPACIDAD MODERADA DISIPACIÓN DE ENERGIA DMO.
- SYSTEM WITH MODERATE ENERGY DISSIPATION CAPACITY DMO.
- CARGA VIVA CUBIERTA 0.35 KN/M2
- LIVE LOAD ON ROOF 0.35 KN/M2
- CARGA GRANIZO EN CUBIERTA 1.0 KN/M2
- HAIL LOAD ON ROOF 1.0 KN/M2
- CARGA ACABADOS 1.0 KN/M2
- FINISH LOAD 1.0 KN/M2
- CARGA DIVISIONES LIVIANAS 1.0 KN/M2
- LIGHT PARTITION LOAD 1.0 KN/M2
- PLANOS DE TALLER POR CONTRATISTA Y SOMETERLOS AL OFICIAL DE CONTRATOS
- CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND SUBMIT THEM TO COR.
- UNIDADES EN CENTÍMETROS A MENOS QUE SE INDIQUE DIFERENTE
- UNITS IN CENTIMETERS UNLESS OTHERWISE SPECIFIED
- CONVENCIÓN DEL DESPIECE 4#522L
  - 4 — CANTIDAD DE VARILLAS
  - 5 — DIÁMETRO EN OCTAVOS DE PULGADA
  - 2 — LONGITUD EN DECIMETROS
  - L — FIGURADO
- REBAR LEGEND 4#522L
  - 4 — REBAR QUANTITY
  - 5 — DIAMETER IN 1/8"
  - 2 — LENGTH IN DECIMETERS
  - L — BENDING TYPE
- L = UN GANCHO DE 30 cm
- L = 1 90° BEND OF 30 cm LONG
- U = DOS GANCHOS DE 30 cm
- U = 2 90° BEND OF 30 cm LONG EACH
- E = FIGURACIÓN ESPECIAL: COMO SE INDICA EN EL PLANO
- E = SPECIAL BENDING: AS INDICATED IN DRAWING
- 01 REFUERZO SIN ESPECIFICACIÓN DE LONGITUD
- 01 UNSPECIFIED LENGTH REBAR
- T.A.M.= TRASLAPOS ALTERNADOS MINIMOS
- T.A.M.= MIN. ALTERNATE OVERLAP
- DIRECCION DE ARMADO
- STEERING ASSEMBLY

PROTECCIÓN ELEMENTOS METÁLICOS
METALLIC ELEMENTS PROTECTIONS

- 1 CAPA EN EL TALLER DE IMPRIMANTE EPÓXICO POLIAMÍDICO DE FOSFATO DE ZINC EN ESPESOR DE 4 MILS
- 1 LAYER 4 MILS PRIMER COATING (SHOP) ZINC PHOSPHATE EPOXY POLYAMIDE
- METAL EXPUESTO A RAYOS UV Y A LA INTEMPERIE ESMALTE DE POLIURETANO, TIPO ALIFÁTICO, COLOR BLANCO 3 MILS
- METAL EXPOSED TO UV AND WEATHER POLYURETHANE ENAMEL, ALIPHATIC TYPE, WHITE COLOR MIN 3 MILS
- ESTRUCTURA DE ACERO DENTRO DEL EDIFICIO, ESMALTE ALQUÍDICO, PIGMENTO DE ALUMINIO MIN 2 MILS.
- INSIDE BUILDING STEEL STRUCTURE ALKYD ENAMEL, ALUMINUM PIGMENT, MIN 2 MILS

LONGITUDES PARA GANCHOS DE 180°
180° BEND LENGTH

BARRA REBAR	D_B	E	D	C	B	A	LONG ADICIONAL (cm) ADDITIONAL LENGTH (cm)	
FY= 420 MPA								
N°	cm	cm	cm	cm	cm	cm	1 GANCHO 1 HOOK	2 GANCHOS 2 HOOKS
N°2	0.64	6.5	3.8	4.5	13.5	11.0	10.0	20.0
N°3	0.95	6.5	5.7	6.7	16.9	13.1	12.5	25.0
N°4	1.27	6.5	7.6	8.9	20.5	15.4	15.0	30.0
N°5	1.59	6.5	9.5	11.1	24.0	17.6	17.5	35.0
N°6	1.91	7.6	11.5	13.4	28.6	21.0	20.0	40.0
N°7	2.22	8.9	13.3	15.5	33.3	24.4	25.0	50.0
N°8	2.54	10.2	15.2	17.8	38.1	27.9	27.5	55.0
N°9	2.87	11.5	23.0	25.8	52.1	37.7	37.5	75.0
N°10	3.23	12.9	25.8	29.1	58.6	42.4	42.5	85.0

LONGITUDES PARA GANCHOS DE 90°
90° BEND LENGTH

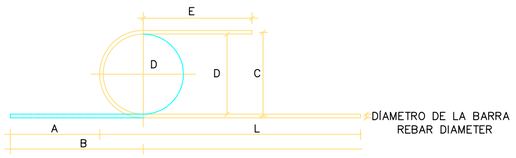
BARRA REBAR	D_B	E	D	C	B	A	LONG ADICIONAL (cm) ADDITIONAL LENGTH (cm)	
FY= 420 MPA								
N°	cm	cm	cm	cm	cm	cm	1 GANCHO 1 HOOK	2 GANCHOS 2 HOOKS
N°2	0.64	7.7	3.8	2.2	11.2	8.6	10.0	20.0
N°3	0.95	11.4	5.7	3.3	16.6	12.8	12.5	25.0
N°4	1.27	15.2	7.6	4.4	22.2	17.1	17.5	35.0
N°5	1.59	19.1	9.5	5.6	27.8	21.5	22.5	45.0
N°6	1.91	22.9	11.5	6.7	33.4	25.8	25.0	50.0
N°7	2.22	26.6	13.3	7.8	38.8	30.0	30.0	60.0
N°8	2.54	30.5	15.2	8.9	44.4	34.3	35.0	70.0
N°9	2.87	34.4	23.0	12.9	54.7	40.4	40.5	80.0
N°10	3.23	38.8	25.8	14.5	61.6	45.4	45.0	90.0

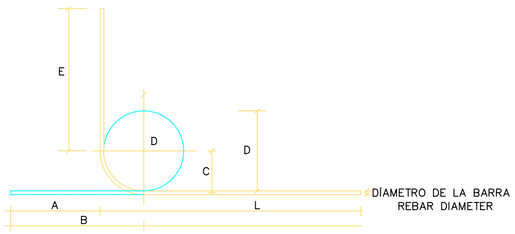
LONGITUDES DE GANCHOS PARA ESTRIBOS DE 135°
135° BEND LENGTH FOR STIRRUPS

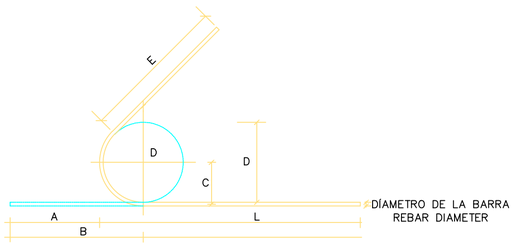
BARRA REBAR	D_B	E	D	C	B	A	LONG ADICIONAL (cm) ADDITIONAL LENGTH (cm)	
FY= 420 MPA								
N°	cm	cm	cm	cm	cm	cm	1 GANCHO 1 HOOK	2 GANCHOS 2 HOOKS
N°2	0.64	3.8	2.6	1.6	7.6	5.7	7.5	15.0
N°3	0.95	5.7	3.8	2.4	11.6	8.4	8.5	17.0
N°4	1.27	7.6	5.1	3.2	15.1	11.3	12.5	25.0
N°5	1.59	9.5	6.4	4.0	18.9	14.1	15.0	30.0
N°6	1.91	11.5	11.5	6.7	27.2	19.6	20.0	40.0
N°7	2.22	13.3	13.3	7.8	31.6	22.7	22.5	45.0
N°8	2.54	15.2	15.2	8.9	36.2	26.0	30.0	60.0
N°9	2.87	17.2	17.2	10.0	40.9	29.4	35.0	70.0
N°10	3.23	19.4	19.4	11.3	46.0	33.1	40.0	80.0

LONGITUD DE EMPALME MÍNIMO
MIN OVERLAP LENGTH

FY= 420 MPA					
F'C(PSI)	3000	3500	4000	4500	5000
F'C(MPA)	21	24.6	28.1	31.6	35.2
F'C(KGF/ cm2)	211	246	281	316	352
BARRA NO-REBAR	cm	cm	cm	cm	cm
N°4	55.9	51.8	48.4	45.6	43.3
N°5	69.9	64.7	60.5	57.1	54.1
N°6	83.8	77.6	72.6	68.5	64.9
N°7	121.8	112.8	105.5	99.4	94.3
N°8	139.2	128.9	120.6	113.7	107.8
N°9	157.0	145.4	136.0	128.2	121.6
N°10	176.8	163.7	153.1	144.4	137.0







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INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT SECTION
EMBASSY OF THE UNITED STATES,
BOGOTÁ, COLOMBIA

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

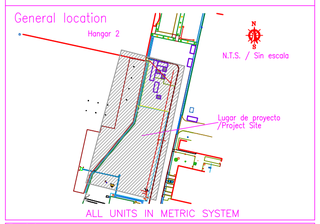
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRMA FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

Drawing title:
NOTAS GENERALES - GENERAL NOTES

Drawing file: NEW SHOPS .DWG

Scale: SIN ESCALA / NO SCALE

Code: S-0

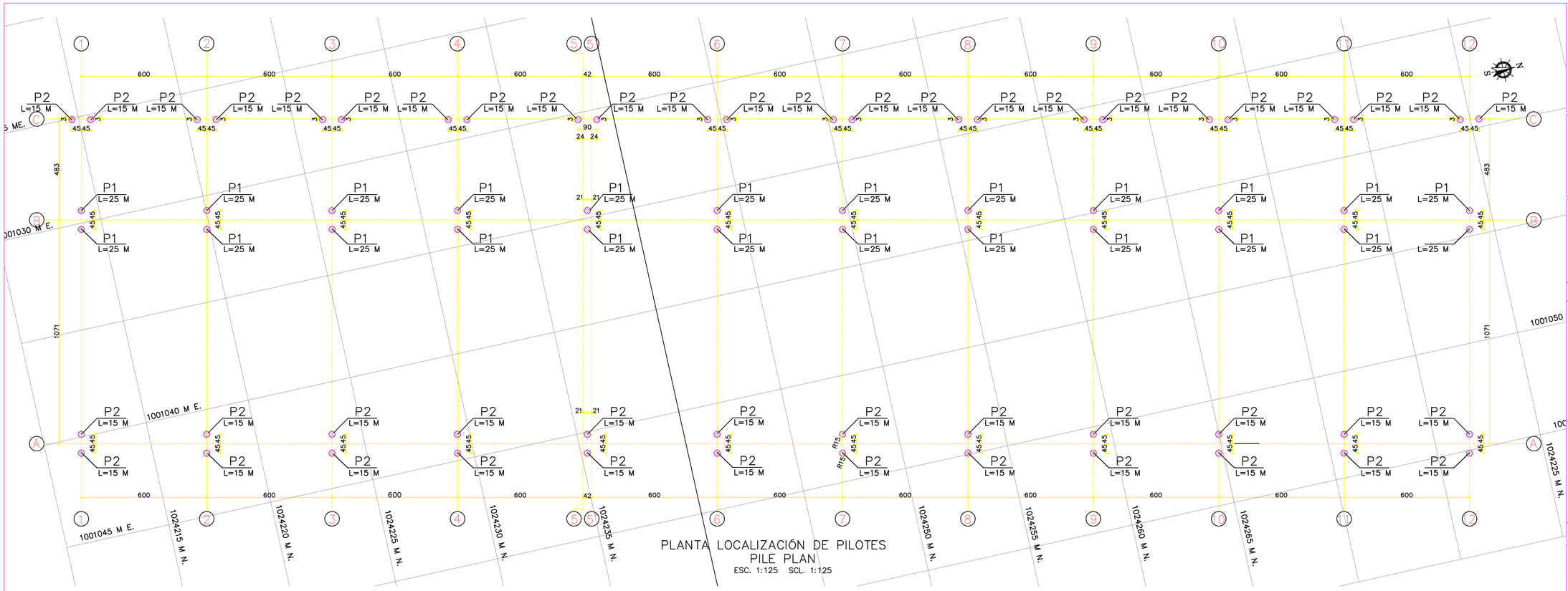
Drawing date: OCTOBER, 2013

Designed by: FREDERICK LANGEBECK

Profession: CIVIL ENGINEER

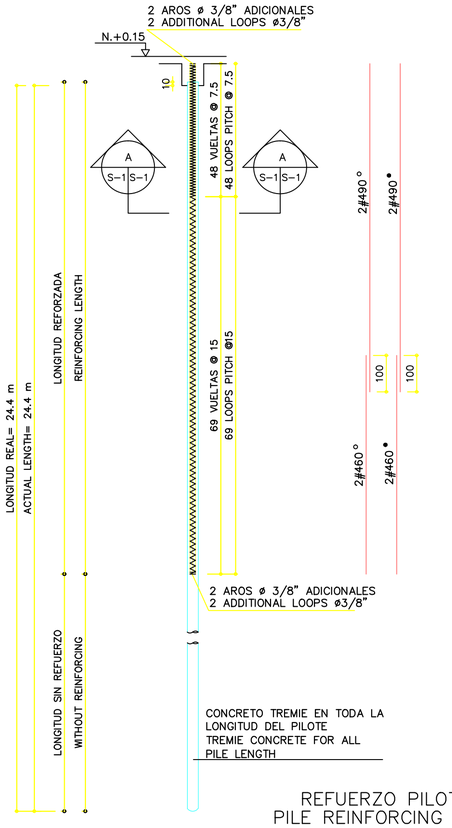
Professional ID: 2520246672CND

Signature:

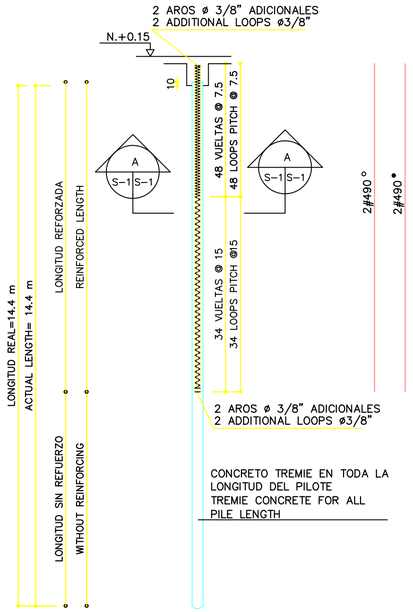


PLANTA LOCALIZACIÓN DE PILOTES
PILE PLAN
ESC. 1:125 SCL. 1:125

0 5 10 15m
ESC: 1:125 SCL: 1:125



REFUERZO PILOTES P1
PILE REINFORCING STEEL P1
ESC. 1:100 SCL. 1:100



REFUERZO PILOTES P2
PILE REINFORCING STEEL P2

PILOTES ø 30 PILES ø 30					
PILE TYPE	LONGITUD NOMINAL NOMINAL LENGTH	LONGITUD REAL ACTUAL LENGTH	CANTIDAD QUANTITY	LONG. TOTAL TOTAL LENGTH	CAPACIDAD ADMISIBLE (kN) ALLOWABLE CAPACITY
P1	25.0 M	24.40 M	24	585.6	95.1
P2	15.0 M	14.40 M	48	691.2	44.7

–LONGITUD NOMINAL = SE REFIERE A LA PERFORACIÓN DESDE EL NIVEL 0,00
–NOMINAL LENGTH = PILE LENGTH FROM LEVEL 0,00
–LONGITUD REAL = SE REFIERE A LA LONGITUD DEL PILOTE A PARTIR DE LA CARA INFERIOR DEL DADO
–ACTUAL LENGTH= PILE LENGTH FROM THE BOTTOM OF PILES CAP

CORTE PILOTES P1–P2
PILES P1–P2 SECTION
ESC. 1:20 SCL. 1:20

MATERIALES
MATERIALS

- CONCRETO TREMIE f'c = 21.0 MPa PILOTAJE
- TREMIE CONCRETE f'c = 21.0 MPa PILES
- REFUERZO Fy = 420 MPa
- REINFORCING STEEL Fy = 420 MPa

NOTAS
NOTES

- UNIDADES EN CENTÍMETROS A MENOS QUE SE INDIQUE DIFERENTE
- UNITS IN CENTIMETERS UNLESS OTHERWISE SPECIFIED

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I.N.L. SECTION
BOGOTÁ , COLOMBIA

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

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location
Hangar 2
N.T.S. / Sin escala
Lugar de proyecto /Project Site
ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRM FECHA

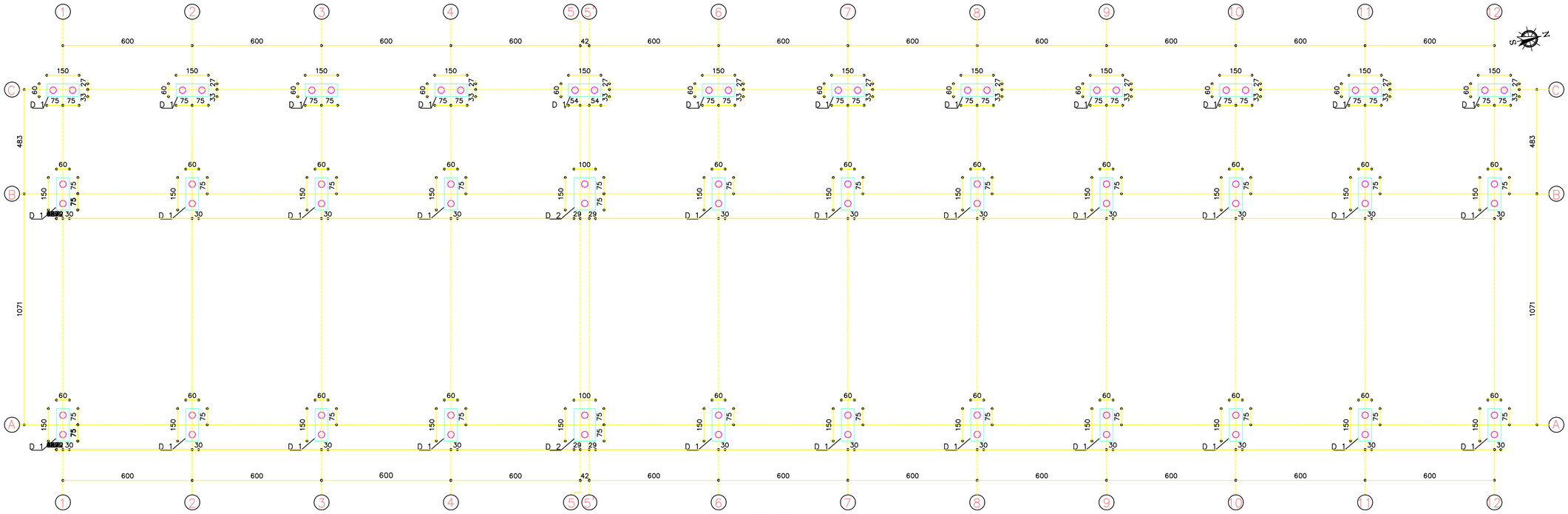
Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

Drawing title:
PLANTA DE PILOTES -- PILE PLAN
REFUERZO DE PILOTES
PILE REINFORCEMENT

Drawing file: NEW SHOPS .DWG
Scale: 1:INDICADA 1:AS SHOWN

Code: S-1

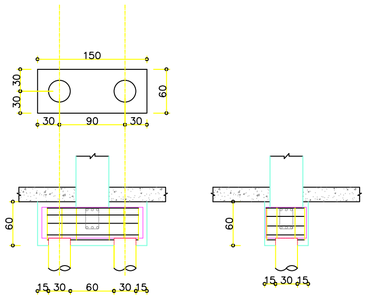
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:

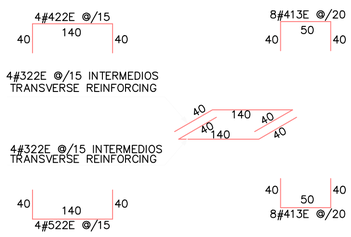


PLANTA DE DADOS
PILE CAP PLAN
ESC. 1:125 SCL. 1:125

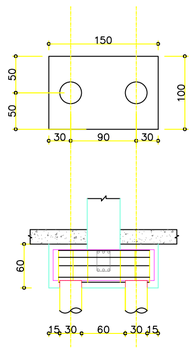
0 5 10 15m

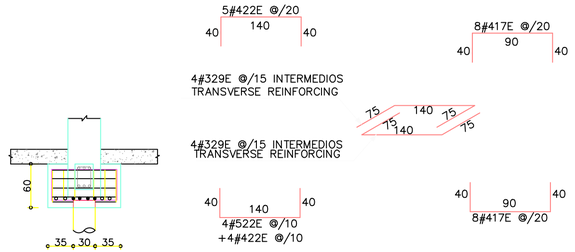
ESC: 1:125 SCL: 1:125





REFUERZO DADO 1 (D1)
PILE CAP 1 REINFORCING (D1)
ESC. 1:50 SCL. 1:50
SON: 34 QTY: 34





REFUERZO DADO 2 (D2)
PILE CAP 2 REINFORCING (D2)
ESC. 1:50 SCL. 1:50
SON: 2
QTY: 2

MATERIALES
MATERIALS

- CONCRETO f'c = 21.0 MPa DADOS
- CONCRETE f'c = 21.0 MPa, PILE CAPS
- REFUERZO Fy = 420 MPa NTC 2289
- REINFORCING STEEL Fy = 420 MPa NTC 2289

NOTAS
NOTES

- UNIDADES EN CENTÍMETROS A MENOS QUE SE ESPECIFIQUE DIFERENTE.
- UNITS IN CENTIMETERS UNLESS OTHERWISE SPECIFIED
- CONVENCIÓN DEL DESPIECE 4#522L
  - CANTIDAD
  - DIÁMETRO EN OCTAVOS DE PULGADA
  - LONGITUD EN DECIMETROS
  - FIGURADO
- REBAR LEGEND 4#522L
  - QUANTITY
  - DIAMETER 1/8"
  - LENGTH IN DECIMETERS
  - TYPE BENDING
- E = FIGURACIÓN ESPECIAL: COMO SE INDICA EN EL PLANO
- E = SPECIAL BENDING: AS INDICATED IN DRAWING

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EMBASSY OF THE UNITED STATES,
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COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

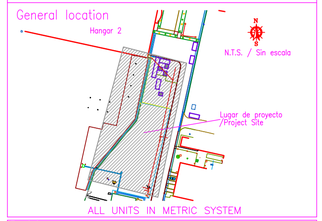
NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL

BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description		Date
1			
2			
3	90% Submittal		July 16
4	90% Submittal		Sep 11
5			
6			
7			
8			
9			
10			

AS-BUILT
FIRMA FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

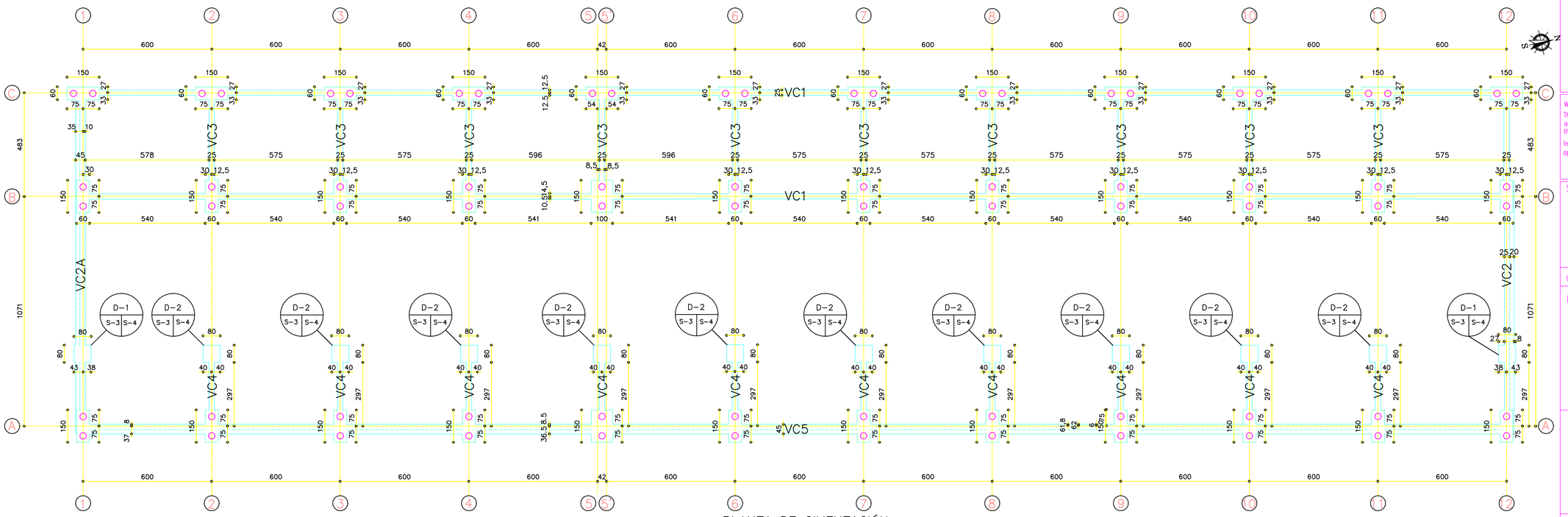
Drawing title:
PLANTA DE DADOS – PILE CAP PLAN
DETALLES DE DADOS
PILE CAP DETAILS

Drawing file: NEW SHOPS .DWG

Scale:
1:INDICADA
1:AS SHOWN

Code
S-2

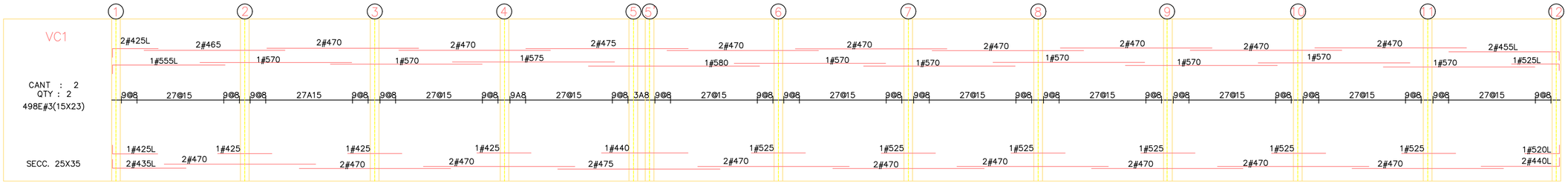
Drawing date: OCTOBER. 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:

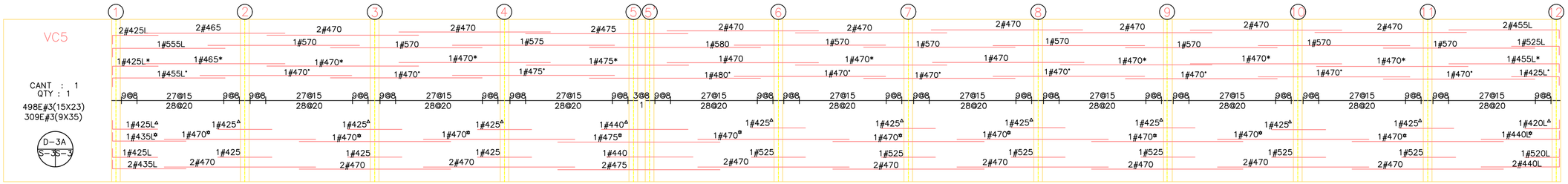


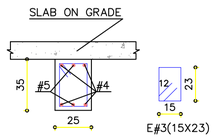
ESC: 1:125 SCL: 1:125

PLANTA DE CIMENTACIÓN
FOUNDATION PLAN

ESC. 1:125 SCL. 1:125

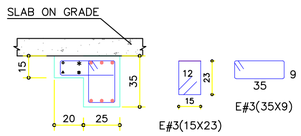






CORTE VIGA 25X35 VC1–VC3–VC4
BEAM SECTION 25X35 VC1–VC3–VC4

ESC. 1:25 SCL. 1:25



D-3A
S-3 S-3
S-4

CORTE VIGAS ESPECIALES VC2–VC2A–VC5
GRADE BEAM SECTION VC2–VC2A–VC5

ESC. 1:25 SCL. 1:25

MATERIALES
MATERIALS

- CONCRETO f'c = 21.0 MPa CIMENTACIÓN
- CONCRETE f'c = 21.0 MPa, FOUNDATION
- REFUERZO Fy = 420 MPa
- REINFORCING STEEL Fy = 420 MPa

NOTAS
NOTES

- UNIDADES EN CENTÍMETROS A MENOS QUE SE INDIQUE DIFERENTE
- UNITS IN CENTIMETERS UNLESS OTHERWISE SPECIFIED
- CONVENCIÓN DEL DESPIECE 4#522L
  - CANTIDAD
  - DIÁMETRO EN OCTAVOS DE PULGADA
  - LONGITUD EN DECIMETROS
  - FIGURADO
- REBAR LEGEND 4#522L
  - QUANTITY
  - DIAMETER /8"
  - LENGTH IN DECIMETERS
  - SHAPE OF BENDING
- L = UN GANCHO DE 30 cm.
- L = ONE 30 cm. HOOK
- U = DOS GANCHOS DE 30 cm.
- U = TWO 30 cm. HOOKS
- 01 REFUERZO SIN ESPECIFICACIÓN DE LONGITUD
- 01 UNSPECIFIED LENGTH REBAR

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I.N.L. SECTION
BOGOTÁ , COLOMBIA

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INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT SECTION
EMBASSY OF THE UNITED STATES,
BOGOTÁ, COLOMBIA

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

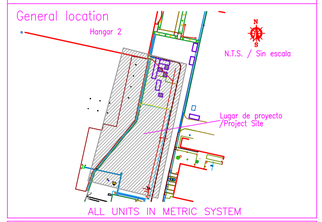
NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL

BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRM FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

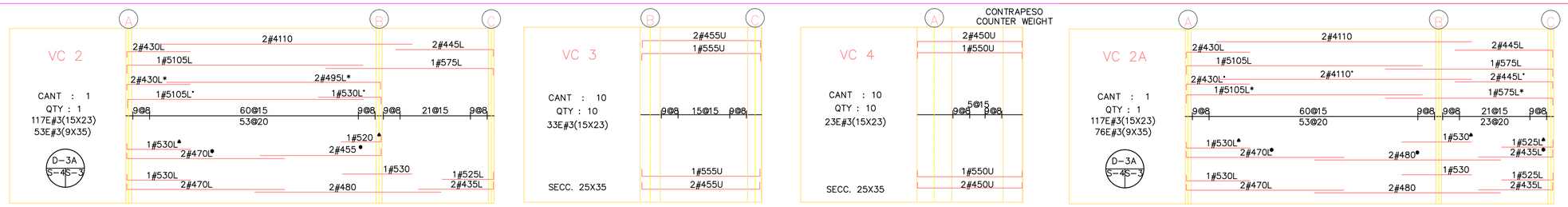
Drawing title:
PLANTA DE CIMENTACIÓN FOUNDATION PLAN
VIGAS DE CIMENTACIÓN
BEAMS REINFORCEMENT

Drawing file: NEW SHOPS .DWG

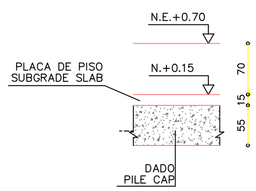
Scale: 1:INDICADA 1:AS SHOWN

Code: S-3

Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



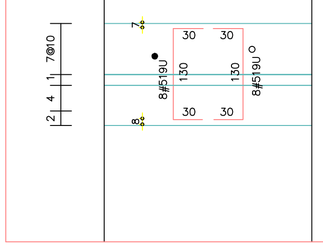
VIGAS DE CIMENTACIÓN
GRADE BEAMS
ESC. 1:125 SCL. 1:125

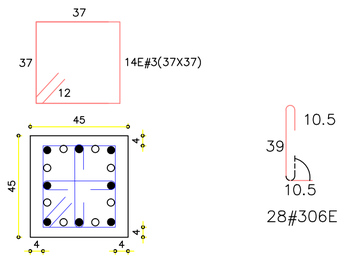


PEDESTAL TIPO
CANT: 36

TYP PEDESTAL
QTY: 36

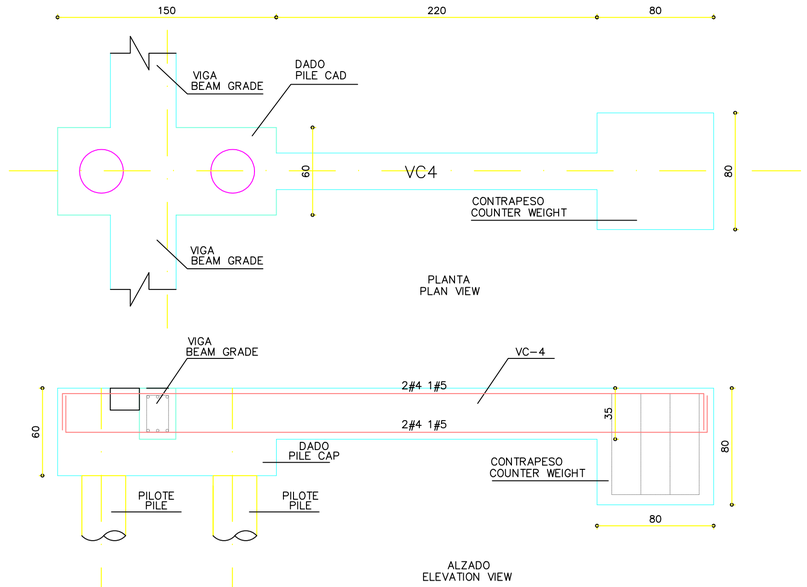
FLEJES STIRRUPS	REFUERZO REINFORCING STEEL	CORTE SECTION



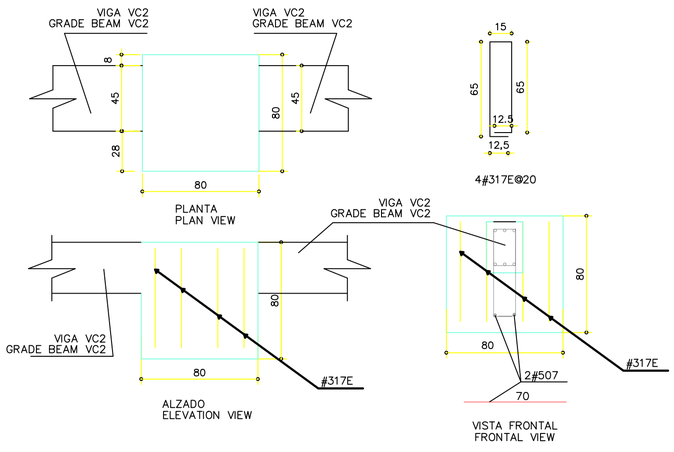


ARMADO PEDESTAL
PEDESTAL ASSEMBLY

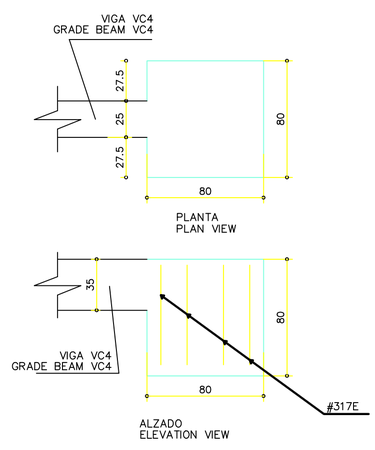
DESPIECE DE PEDESTAL
CONCRETE PEDESTAL DETAIL
ESC. 1:50 SCL. 1:50



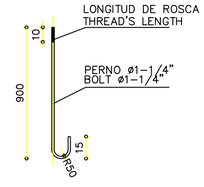
CORTE DE DADO Y CONTRA PESO
COUNTER WEIGHT AND PILE CAP SECTION
ESC. 1:25 SCL. 1:25



D-1
S-4S-3
REFUERZO CONTRAPESO VC-2
COUNTER WEIGHT REINFORCEMENT VC-2
ESC. 1:25 SCL. 1:25
SON: 12 QTY: 12



D-2
S-4S-3
REFUERZO CONTRAPESO
COUNTER WEIGHT REINFORCEMENT
ESC. 1:25 SCL. 1:25
SON: 12 QTY: 12



PERNOS DE ANCLAJE (DIM EN mm)
ANCHOR BOLTS (DIM IN mm)
ESC. 1:25 SCL. 1:25

MATERIALES
MATERIALS

- CONCRETO f'c = 21.0 MPa DADOS
- CONCRETE f'c = 21.0 MPa, PILE CAPS
- CONCRETO f'c = 28.0 MPa PEDESTALES
- CONCRETE f'c = 28.0 MPa, PEDESTALS
- REFUERZO Fy = 420 MPa NTC 2289
- REINFORCING STEEL Fy = 420 MPa NTC 2289
- PERNOS DE ANCLAJE: ASTM F-1554
- ANCHOR BOLTS: ASTM F-1554

NOTAS
NOTES

- UNIDADES EN CENTÍMETROS A MENOS QUE SE INDIQUE DIFERENTE
- UNITS IN CENTIMETERS UNLESS OTHERWISE SPECIFIED
- CONVENCIÓN DEL DESPIECE 4#522L
  - CANTIDAD
  - DIÁMETRO EN OCTAVOS DE PULGADA
  - LONGITUD EN DECIMETROS
  - FIGURADO
- REBAR LEGEND 4#522L
  - QUANTITY
  - DIAMETER /8 "
  - LENGTH IN DECIMETERS
  - SHAPE OF BENDING
- L = UN GANCHO DE 25 cm.
- L = ONE 25 cm HOOK
- U = DOS GANCHOS DE 25 cm
- U = TWO 25 cm HOOKS
- E = FIGURACIÓN ESPECIAL: COMO SE INDICA EN EL PLANO
- E = SPECIAL BENDING: AS INDICATED IN DRAWING

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I.N.L. SECTION
BOGOTÁ , COLOMBIA

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EMBASSY OF THE UNITED STATES,
BOGOTA, COLOMBIA

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

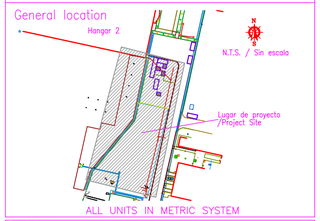
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description		Date
1			
2			
3	90% Submittal		July 16
4	90% Submittal		Sep 11
5			
6			
7			
8			
9			
10			

AS-BUILT
FIRM FECHA

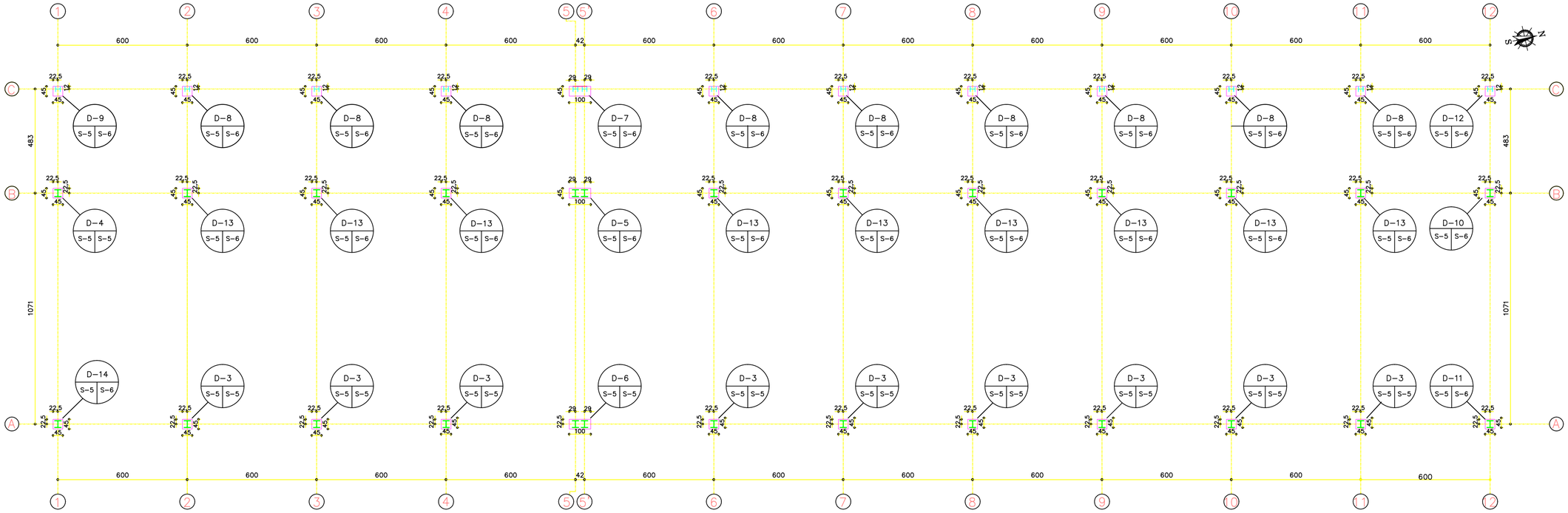
Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

Drawing title:
VIGAS DE CIMENTACION
BEAMS REINFORCEMENT
CONTRAPESO – COUNTER WEIGHT
PEDESTAL – PEDESTAL

Drawing file: NEW SHOPS .DWG
Scale: 1:INDICADA / 1:AS SHOWN

Code
S-4

Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:

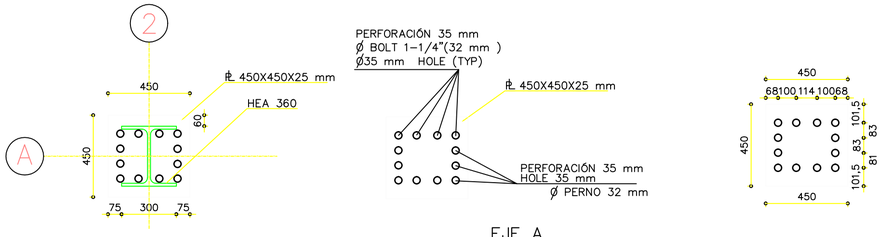


PLANTA DE EJES Y COLUMNAS
AXIS AND COLUMN PLAN

ESC. 1:125 SCL. 1:125

0 5 10 15m

ESC: 1:125 SCL: 1:125

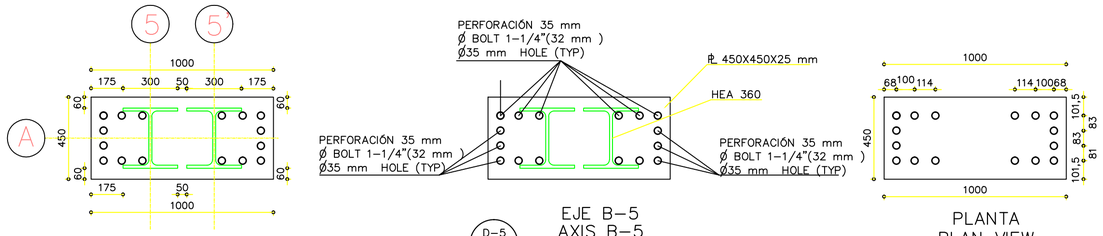


D-3 S-5 S-5

EJE A
AXIS A

ESC. 1:20 CANT. 9 SCL. 1:20 QTY. 9

PLANTA
PLAN VIEW

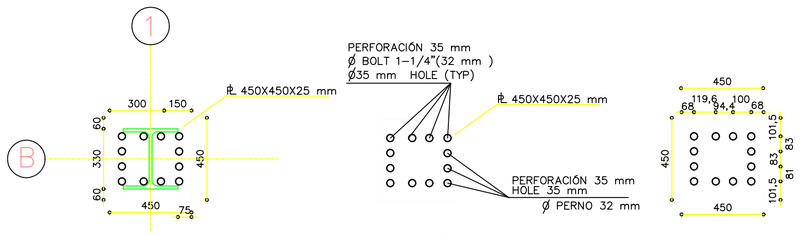


D-5 S-5 S-5

EJE B-5
AXIS B-5

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

PLANTA
PLAN VIEW

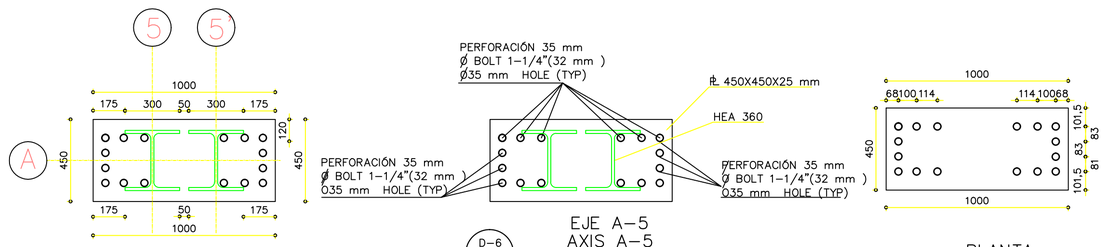


D-4 S-5 S-5

EJE B
AXIS B

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

PLANTA
PLAN VIEW



D-6 S-5 S-5

EJE A-5
AXIS A-5

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

PLANTA
PLAN VIEW

MATERIALES
MATERIALS

- SOLDADURA E70XX
- WELDING E70XX
- TORNILLOS: ASTM A-325M ASTM A-325 TIPO 1 FU = 740 MPA. SAE 2
- BOLTS: ASTM A-325M ASTM A-325 TYPE 1 FU = 740 MPA. SAE 2
- TUERCAS: ASTM A-563M ASTM A-563
- NUTS: ASTM A-563M ASTM A-563

NOTAS
NOTES

- UNIDADES EN CENTÍMETROS PARA ELEMENTOS EN CONCRETO
- UNITS IN CENTIMETERS CONCRETE STRUCTURAL MEMBERS
- UNIDADES EN MILÍMETROS PARA ELEMENTOS METÁLICOS
- UNITS IN MILLIMETERS STEEL MEMBERS

EMBASSY OF THE UNITED STATES
I.N.L. SECTION
BOGOTÁ , COLOMBIA

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

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

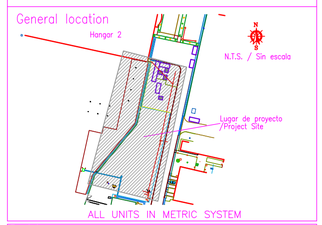
NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL

BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRM DATE

Phase:
☐ 35% ☐ 60% ☐ 90% ☒ 100% ☐ AS BUILT

Drawing title:
PLANTA DE EJES Y COLUMNAS
AXIS AND COLUMN PLAN
PLATINAS DE BASE – BASE PLATES

Drawing file: NEW SHOPS .DWG

Scale: 1:INDICADA 1:AS SHOWN

Code: S-5

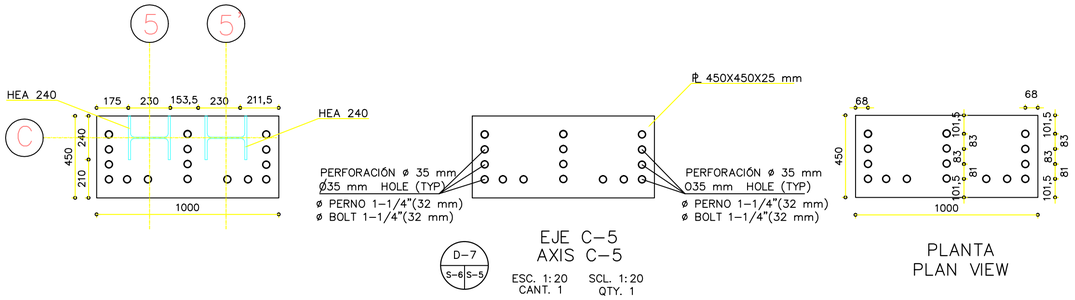
Drawing date: OCTOBER, 2013

Designed by: FREDERICK LANGEBECK

Profession: CIVIL ENGINEER

Professional ID: 2520246672CND

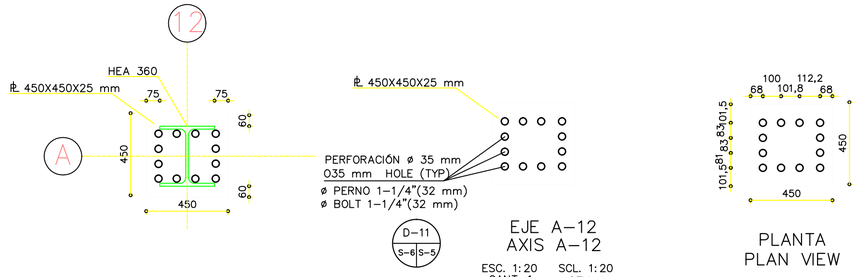
Signature:



EJE C–5
AXIS C–5

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

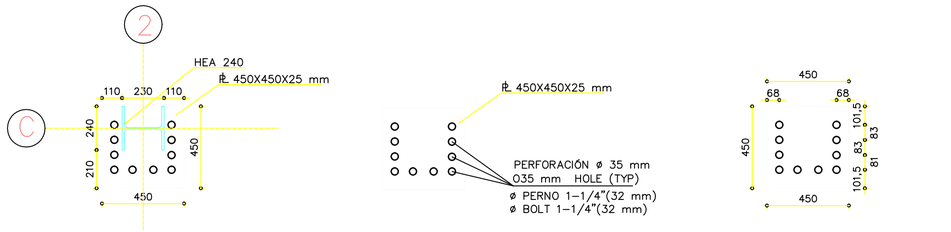
PLANTA
PLAN VIEW



EJE A–12
AXIS A–12

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

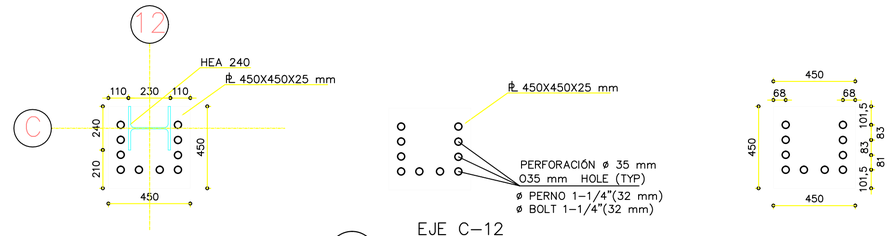
PLANTA
PLAN VIEW



EJE C
AXIS C

ESC. 1:20 CANT. 9 SCL. 1:20 QTY. 9

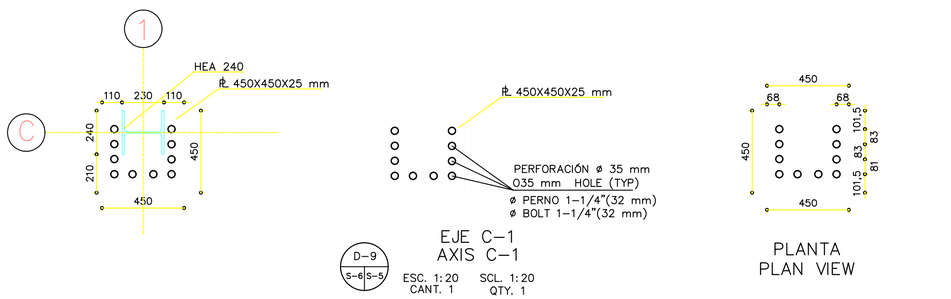
PLANTA
PLAN VIEW



EJE C–12
AXIS C–12

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

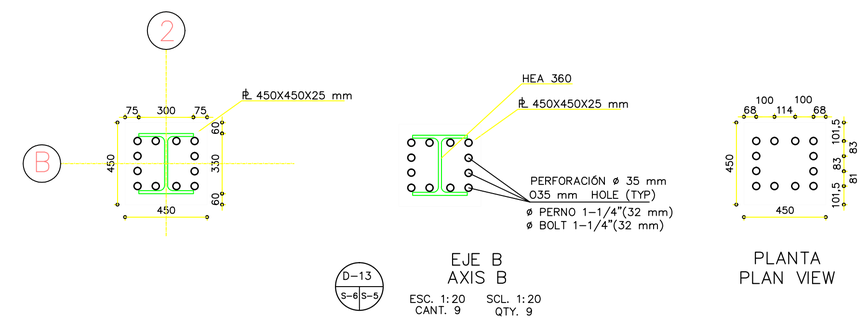
PLANTA
PLAN VIEW



EJE C–1
AXIS C–1

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

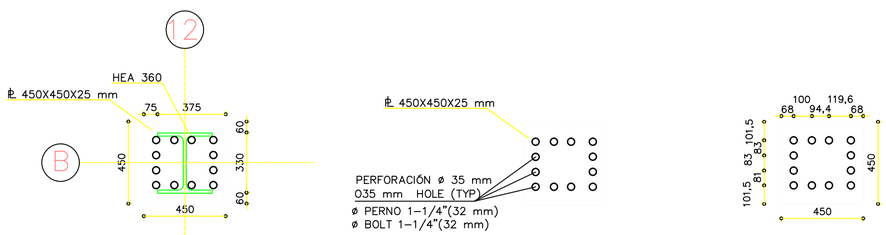
PLANTA
PLAN VIEW



EJE B
AXIS B

ESC. 1:20 CANT. 9 SCL. 1:20 QTY. 9

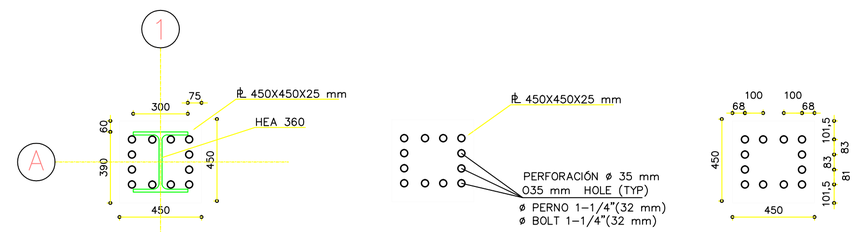
PLANTA
PLAN VIEW



EJE B–12
AXIS B–12

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

PLANTA
PLAN VIEW



EJE A–1
AXIS A–1

ESC. 1:20 CANT. 1 SCL. 1:20 QTY. 1

PLANTA
PLAN VIEW

NOTAS
NOTES

– UNIDADES EN MILÍMETROS A MENOS QUE SE INDIQUE DIFERENTE
– UNITS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

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I.N.L. SECTION
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EMBASSY OF THE UNITED STATES,
BOGOTÁ, COLOMBIA

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

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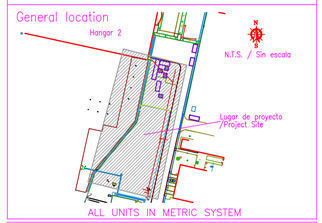
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRMA FECHA

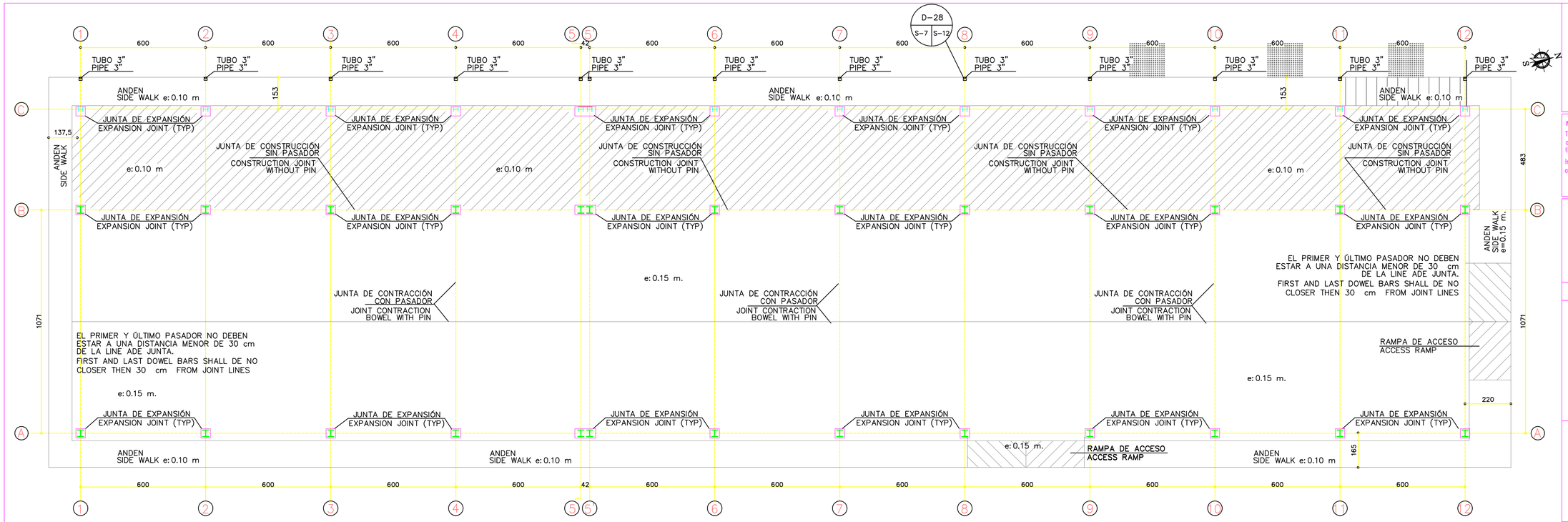
Phase:
☐ 35% ☐ 60% ☐ 90% ☒ 100% ☐ AS BUILT

Drawing title:
PLATINAS DE BASE – BASE PLATES

Drawing file: NEW SHOPS .DWG
Scale: 1:20

Code: S-6

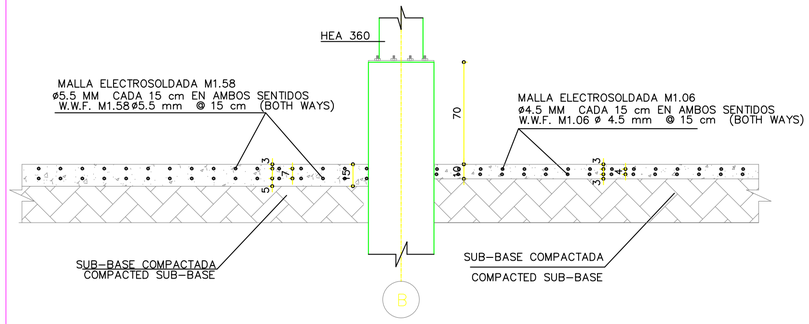
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



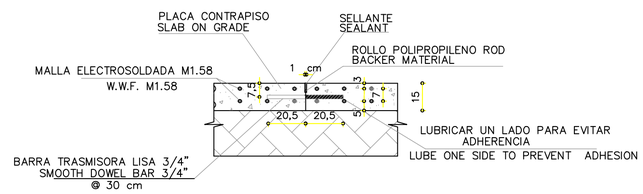
0 5 10 15m

ESC: 1:125 SCL: 1:125

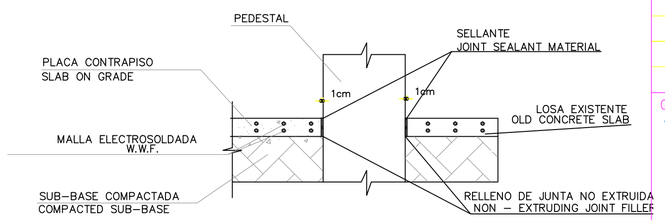
PLANTA PLACA DE CONTRAPISO
SLAB ON GRADE
Esc. 1:125 SCL. 1:125



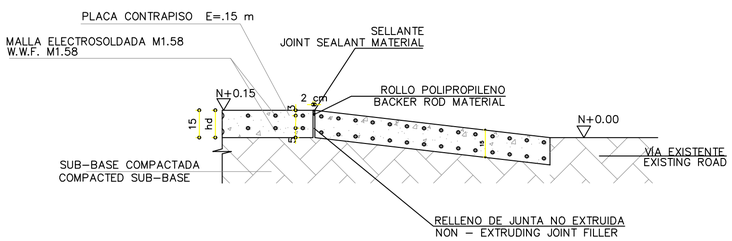
CORTE PLACA PISO TRANSVERSAL
TYP SLAB ON GRADE SECTION
ESC. 1:25 SCL. 1:25



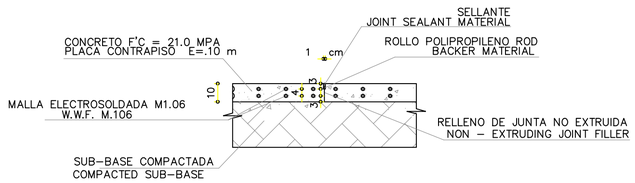
JUNTA DE CONTRACCIÓN CON PASADORES
CONTRACTION JOINT WIHT DOWEL
ESC. 1:20 SCL. 1:20



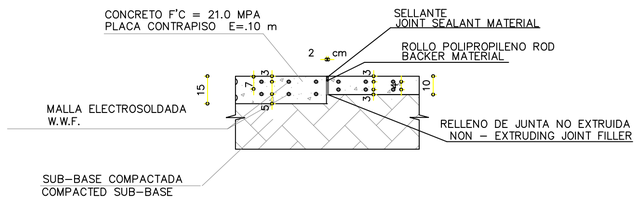
JUNTA DE EXPANSIÓN
EXPANSION JOINT
ESC. 1:20 SCL. 1:20



DETALLE RAMPA DE ACCESO
ACCESS RAMP DETAIL
ESC. 1:20 SCL. 1:20



JUNTA DE CONTRACCIÓN
CONTRACTION JOINT
ESC. 1:20 SCL. 1:20



JUNTA DE CONSTRUCCIÓN SIN PASADOR
CONSTRUTION JOINT WITHOUT PIN
ESC. 1:20 SCL. 1:20

CONVENCIÓN
CONVENTION

POSIBLE LOCALIZACIÓN PARA PONTÓN
POSSIBLE PONTÓN LOCALIZATION

LOS ANDENES DEBEN TENER UNA RELACIÓN LARGO/ANCHO MENOR QUE 1.25
CONCRETE SLABS FOR SIDEWALK SHALL HAVE A LENGTH/WIDTH RATIO LOWER THAN 1.25

EMBASSY OF THE UNITED STATES
I.N.L. SECTION
BOGOTÁ , COLOMBIA

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

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

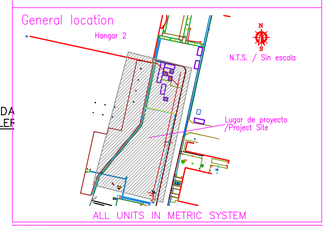
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRM FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

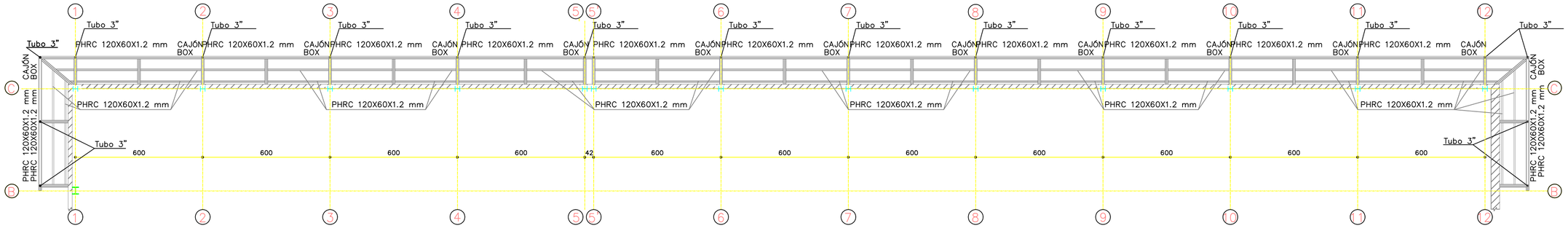
Drawing title:
PLACA DE CONTRAPISO-SLABS ON GRADE
JUNTAS – JOINTS

Drawing file: NEW SHOPS .DWG

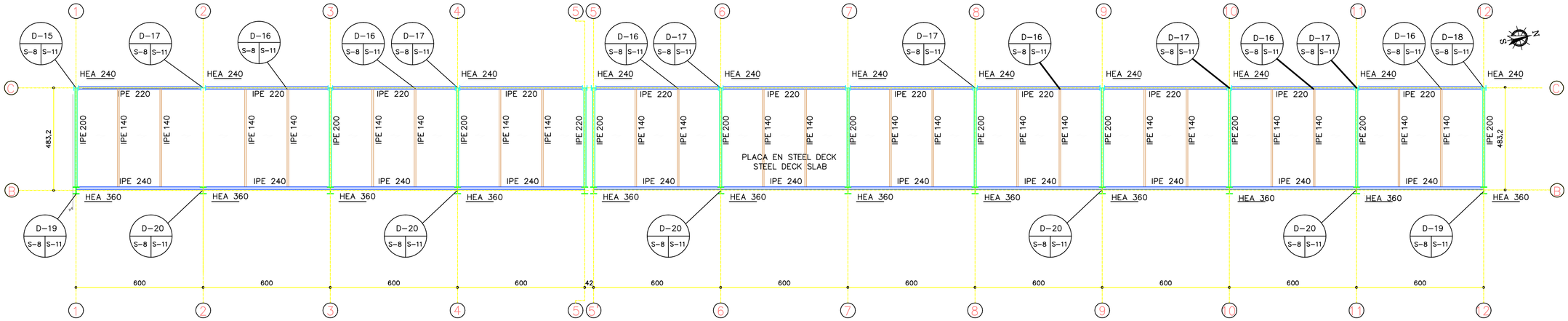
Scale: 1:INDICADA 1:AS SHOWN

Code: S-7

Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:

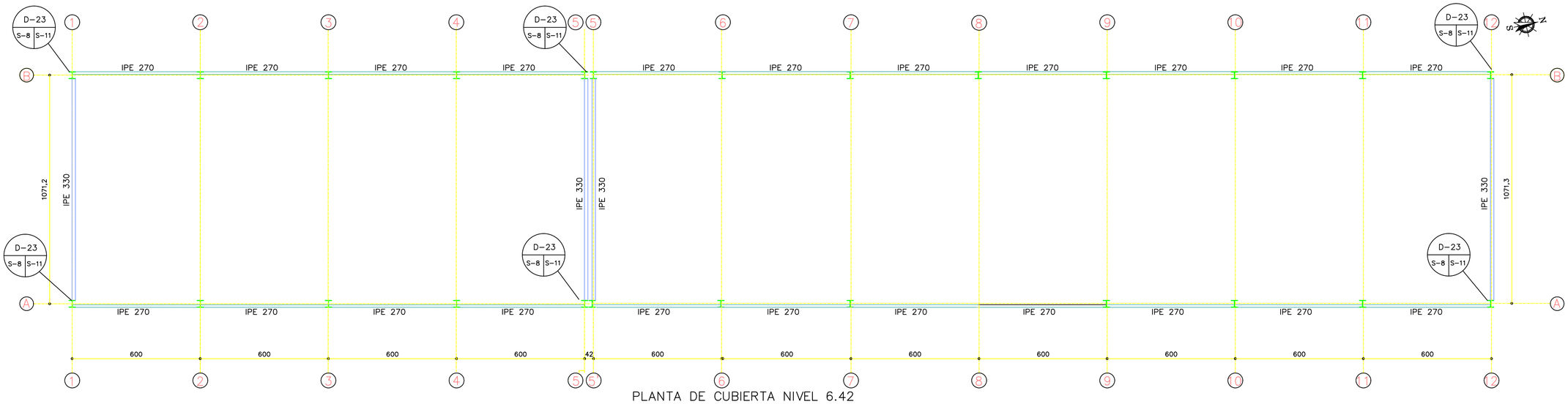


MARQUESINA
CANOPY
Esc. 1:125 SCL. 1:125



PLANTA DE CUBIERTA NIVEL 3.30
ROOF STRUCTURE PLAN AT LEVEL 3.30
ESC. 1:125 SCL. 1:125

– DIRECCION DE ARMADO
– STEERING ASSEMBLY



PLANTA DE CUBIERTA NIVEL 6.42
ROOF STRUCTURE PLAN AT LEVEL 6.42
ESC. 1:125 SCL. 1:125

0 5 10 15m
ESC: 1:125 SCL: 1:125

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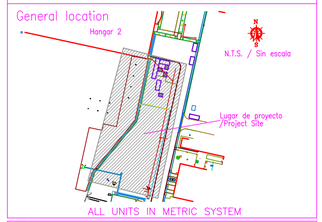
NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL

BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



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9		
10		

AS-BUILT
FIRMA FECHA

Phase:
☐ 35% ☐ 60% ☐ 90% ☒ 100% ☐ AS BUILT

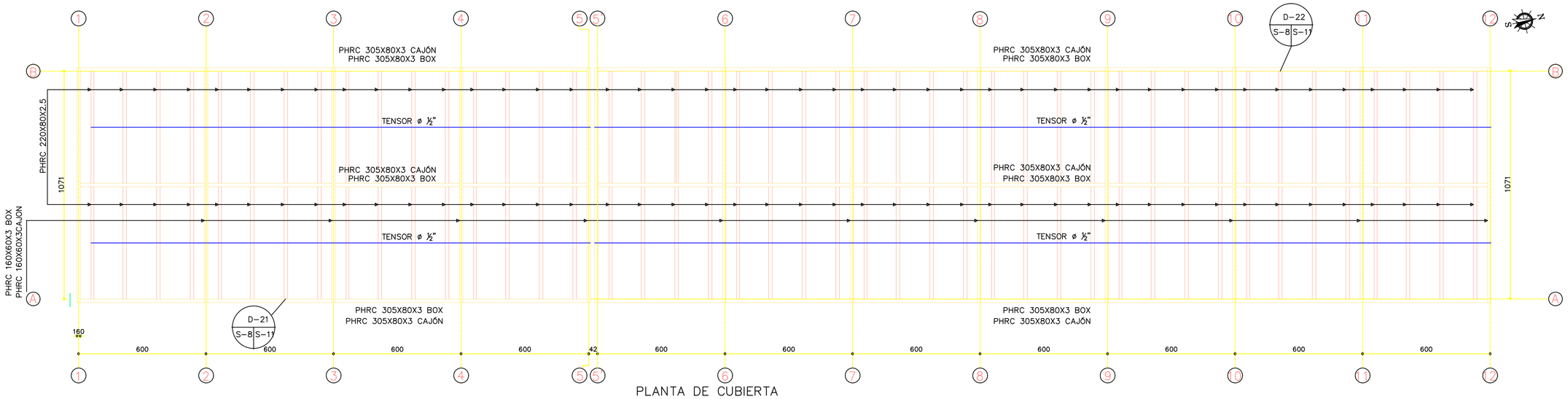
Drawing title:
PLANTAS DE CUBIERTA
ROOF STRUCTURE PLAN

Drawing file: NEW SHOPS .DWG

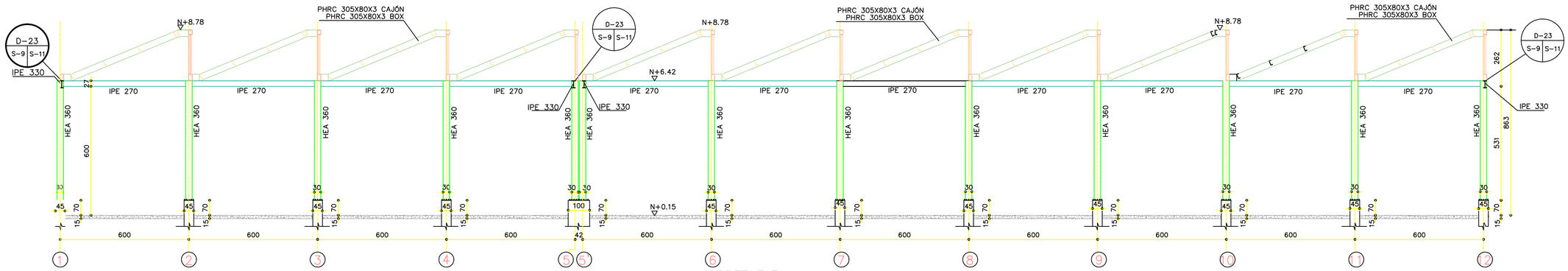
Scale: 1:125 1:125

Code: S-8

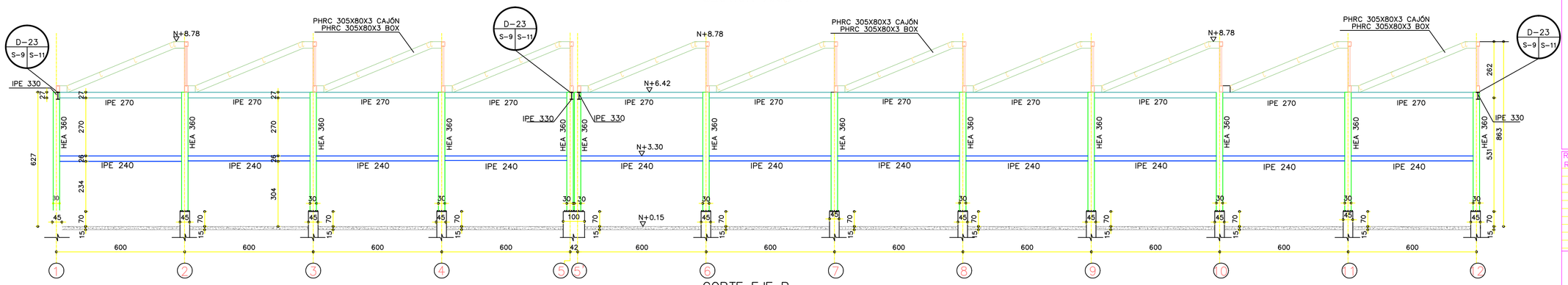
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



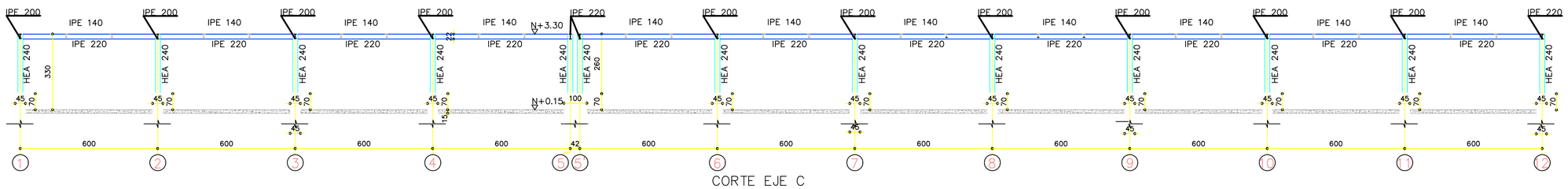
PLANTA DE CUBIERTA
ROOF STRUCTURE PLAN



CORTE EJE A
SECTION AXIS A



CORTE EJE B
SECTION AXIS B



CORTE EJE C
SECTION AXIS C
Esc. 1:125 SCL. 1:125

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BOGOTÁ , COLOMBIA

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EMBASSY OF THE UNITED STATES,
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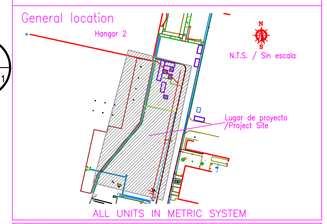
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



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9		
10		

AS-BUILT
FIRM: TECH:

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

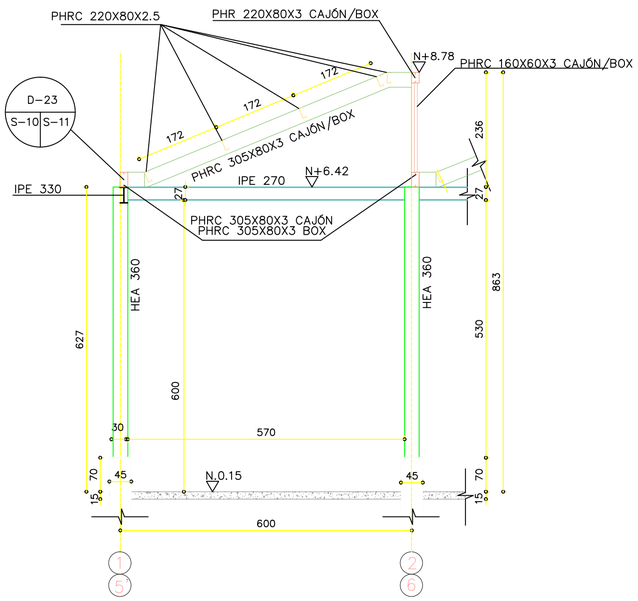
Drawing title:
PORTICOS LONGITUDINALES
LONGITUDINAL FRAMES
PERFILES ESTRUCTURALES
STRUCTURAL PROFILES

Drawing file: NEW SHOPS .DWG

Scale: 1:125 1:125

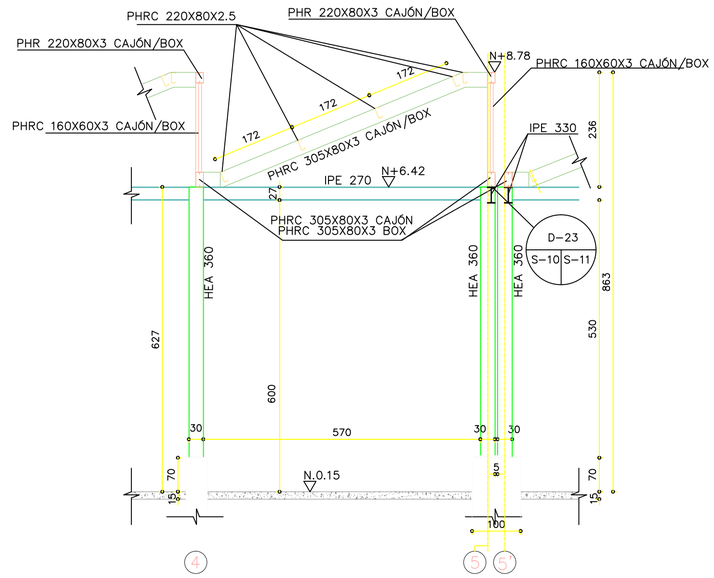
Code: S-9

Drawing date: OCTOBER. 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



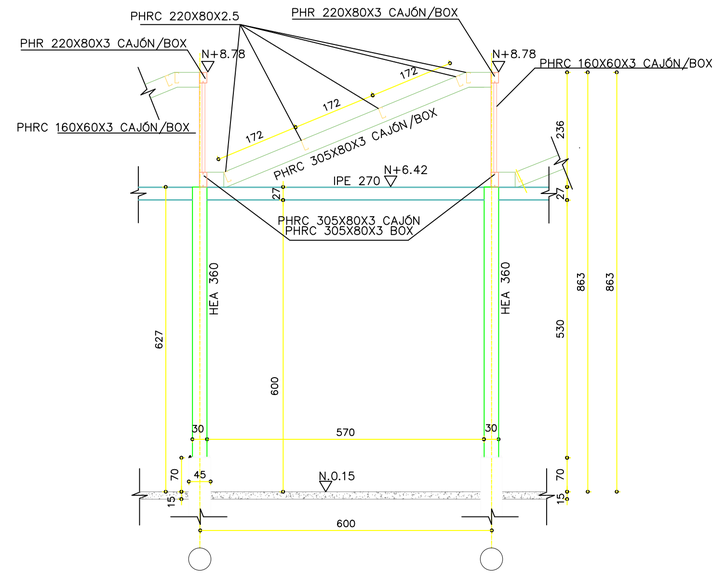
PORTICO EJE A ENTRE 1–2
FRAME AXIS A BETWEEN 1–2

ESC. 1:75 SCL. 1:75



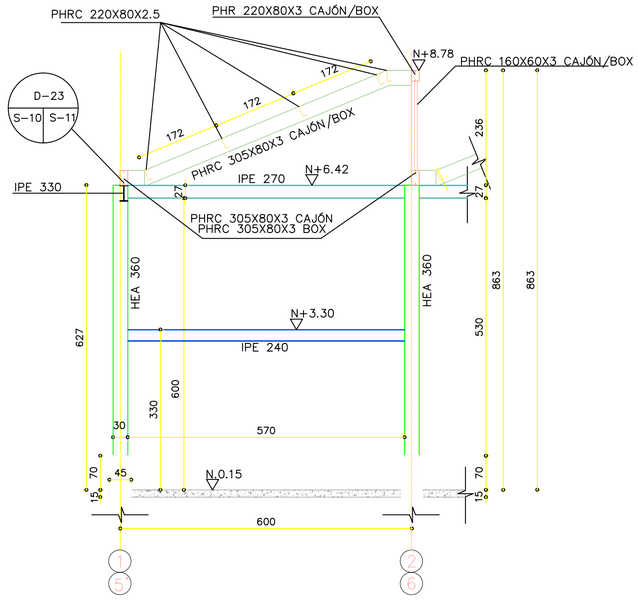
PÓRTICO LONGITUDINAL EJE A ENTRE 4 Y 6
LONGITUDINAL FRAME AXIS A BETWEEN AXES 4 AND 6

ESC. 1:75 SCL. 1:75



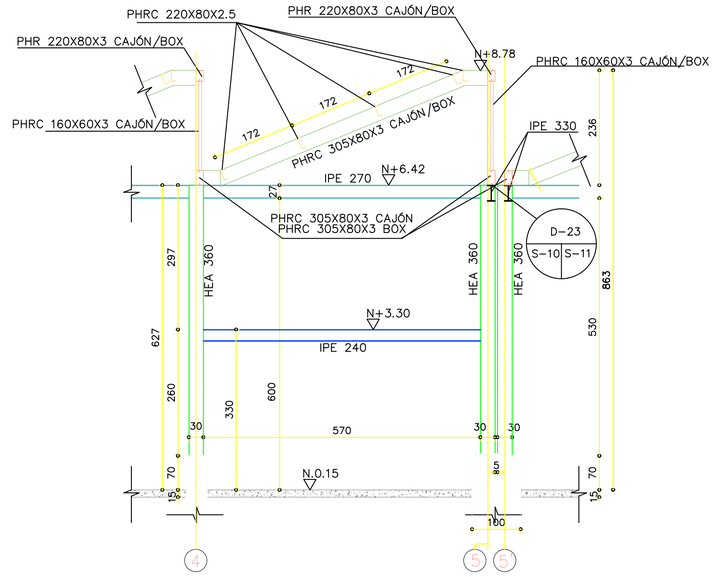
PORTICO LONGITUDINAL TIPO – EJE A
TYP LONGITUDINAL FRAME – AXIS A

ESC. 1:75 SCL. 1:75



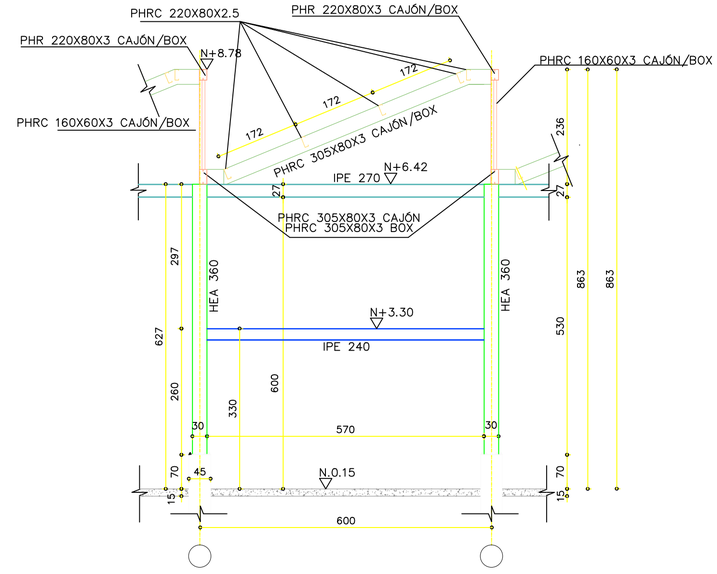
PORTICO EJE B ENTRE 1–2
FRAME AXIS B BETWEEN 1–2

ESC. 1:75 SCL. 1:75



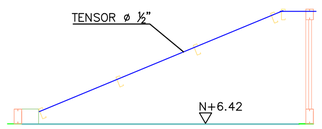
PÓRTICO LONGITUDINAL EJE B ENTRE 4 Y 6
LONGITUDINAL FRAME AXIS B BETWEEN AXES 4 AND 6

ESC. 1:75 SCL. 1:75



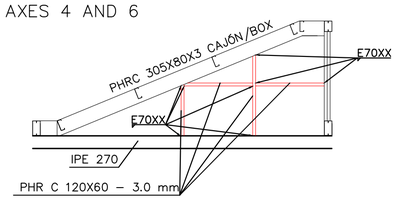
PORTICO LONGITUDINAL TIPO – EJE B
TYP LONGITUDINAL FRAME – AXIS B

ESC. 1:75 SCL. 1:75



TIRANTE PARA CORREAS
TYP PURLIN TENSOR

ESC. 1:75 SCL. 1:75



ESTRUCTURA PARA LUCARNA LATERAL
LUCARNE LATERAL COVER STRUCTURE

ESC. 1:75 SCL. 1:75

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EMBASSY OF THE UNITED STATES,
BOGOTA, COLOMBIA

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

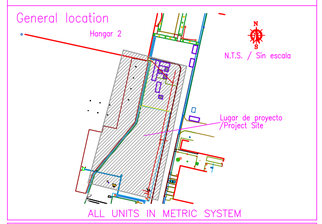
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRMA FECHA

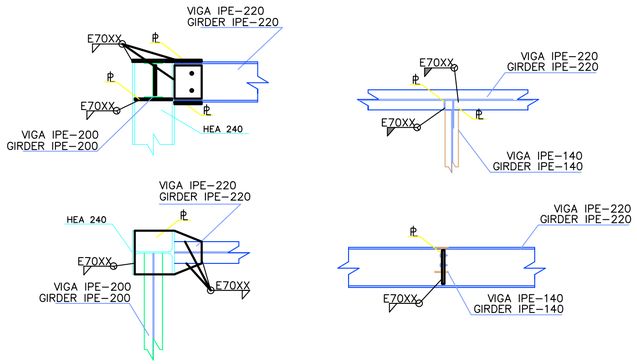
Phase:
☐ 35% ☐ 60% ☐ 90% ☒ 100% ☐ AS BUILT

Drawing title:
PORTICOS TRANSVERSALES
TYP TRANSVERSE FRAMES

Drawing file: NEW SHOPS .DWG
Scale: 1:75

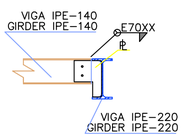
Code: S-10

Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



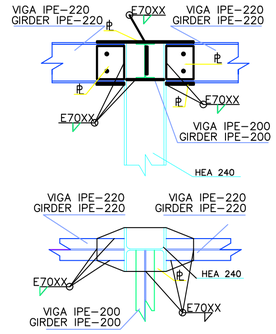
D-15
S-11|S-5

ESC. 1:20 SCL. 1:20



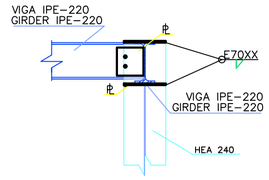
D-16
S-11|S-5

ESC. 1:20 SCL. 1:20



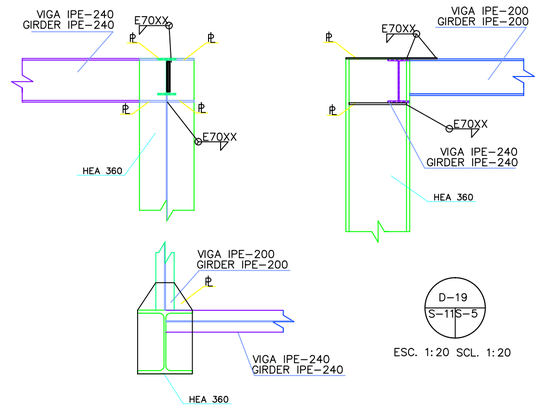
D-17
S-11|S-5

ESC. 1:20 SCL. 1:20



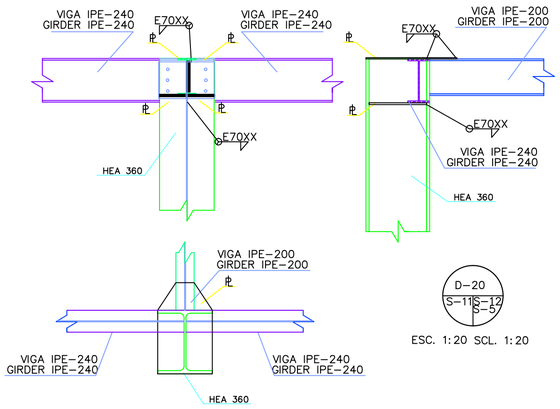
D-18
S-11|S-5

ESC. 1:20 SCL. 1:20



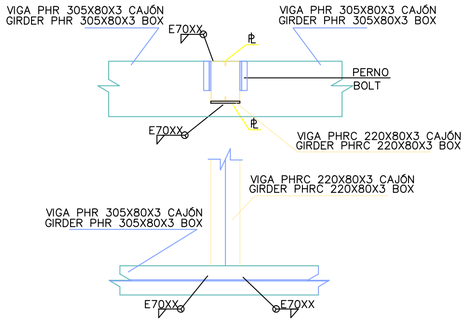
D-19
S-11|S-5

ESC. 1:20 SCL. 1:20



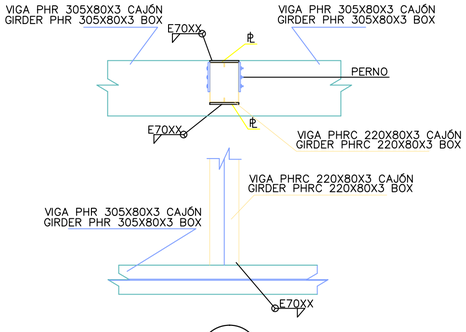
D-20
S-11|S-12
S-5

ESC. 1:20 SCL. 1:20



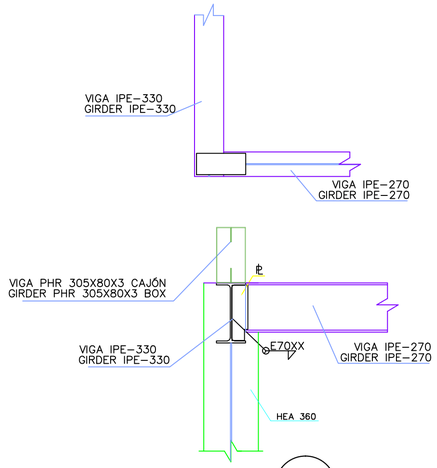
D-21
S-11|S-8

ESC. 1:20 SCL. 1:20



D-22
S-11|S-9

ESC. 1:20 SCL. 1:20



D-23
S-11|S-10

ESC. 1:20 SCL. 1:20

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BOGOTÁ , COLOMBIA

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COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

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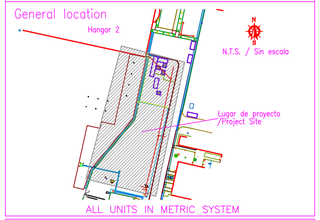
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



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AS-BUILT
FIRM FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

Drawing title:
CONEXIONES – STRUCTURAL JOINTS

Drawing file: NEW SHOPS .DWG

Scale: 1:20

Code: S-11

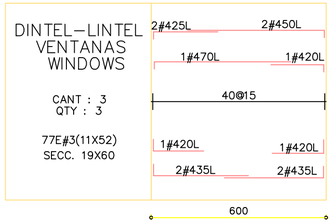
Drawing date: OCTOBER, 2013

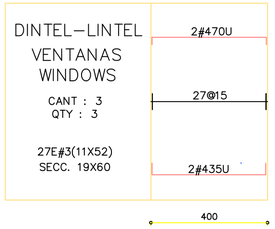
Designed by: FREDERICK LANGEBECK

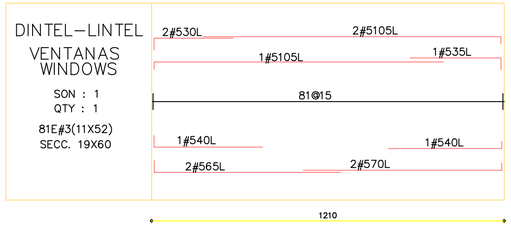
Profession: CIVIL ENGINEER

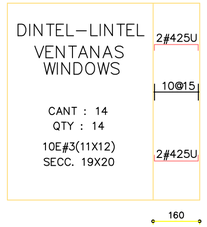
Professional ID: 2520246672CND

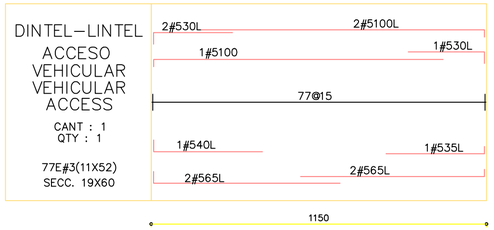
Signature:

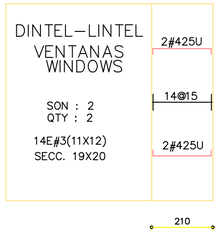


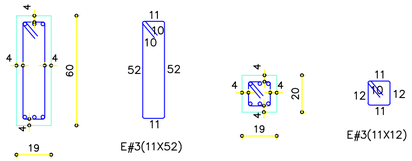




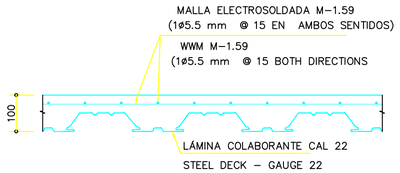




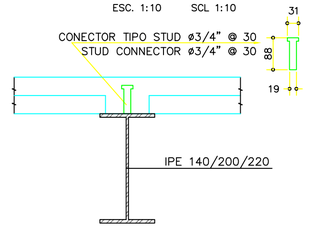




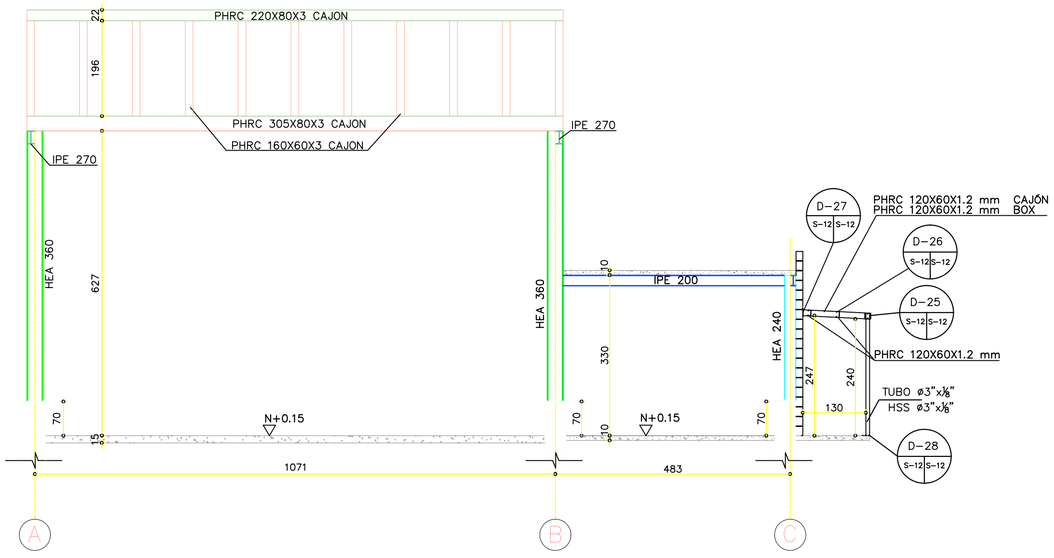
CORTE VIGA DINTEL VENTANAS
LINTEL WINDOW SECTION
ESC. 1:20 SCL. 1:20



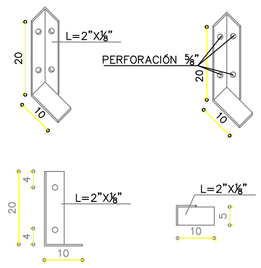
CORTE TÍPICO PLACA SISTEMA DE LÁMINA COLABORANTE
TYP SECTION STEEL DECK
ESC. 1:10 SCL 1:10



CONECTOR DE CORTANTE
SHEAR CONNECTOR
ESC. 1:10 SCL 1:10

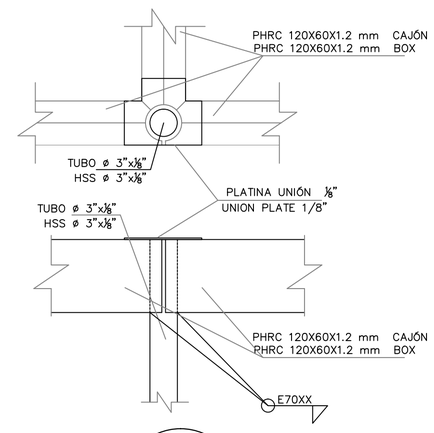


PÓRTICOS TÍPICOS EJES NUMÉRICOS
TYP FRAMES – NUMERIC AXES
ESC. 1:75 SCL. 1:75



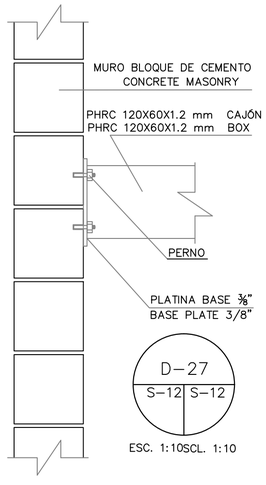
ALZADO
FRONTAL VIEW

PLANTA
PLAN VIEW

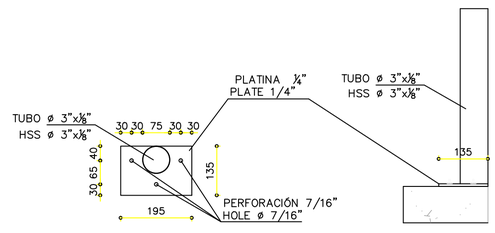


D–26
S–12 S–12
ESC. 1:10SCL. 1:10

D–25
S–12 S–12
ESC. 1:10 SCL. 1:10



D–27
S–12 S–12
ESC. 1:10SCL. 1:10



D–28
S–12 S–12
ESC. 1:10 SCL. 1:10

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I.N.L. SECTION
BOGOTÁ , COLOMBIA

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

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

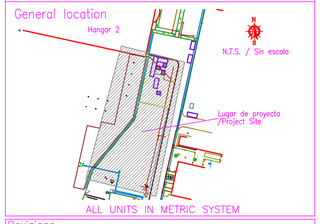
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRM FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

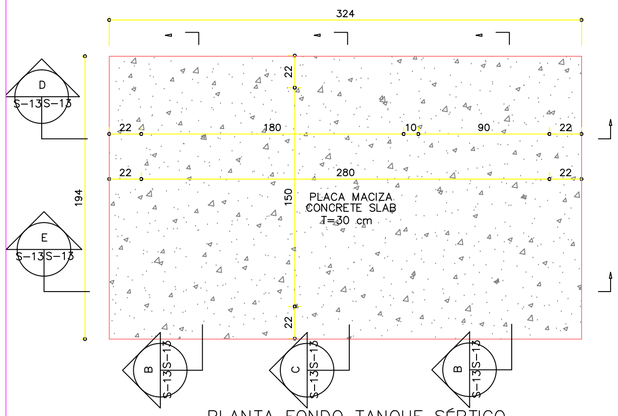
Drawing title:
CONEXIONES – STRUCTURAL JOINTS
PÓRTICOS TÍPICOS EJES NUMÉRICOS
TYP FRAMES – NUMERIC AXIS
CONECTOR DE CORTANTE–SHEAR CONNECTOR

Drawing file: NEW SHOPS .DWG

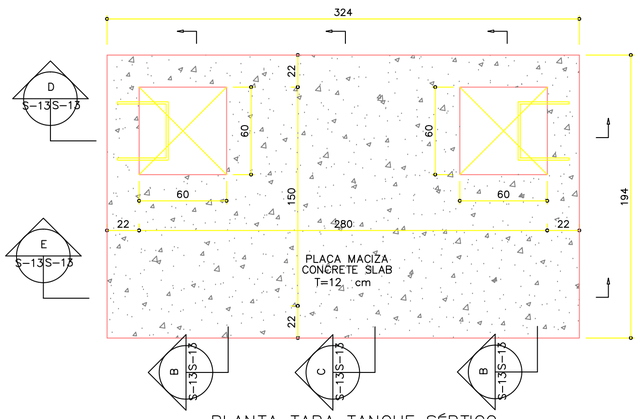
Scale: 1:INDICADA
1:AS SHOWN

Code: S-12

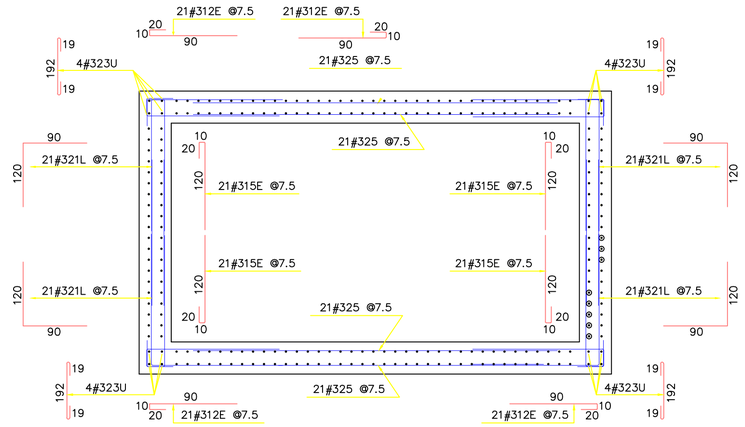
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



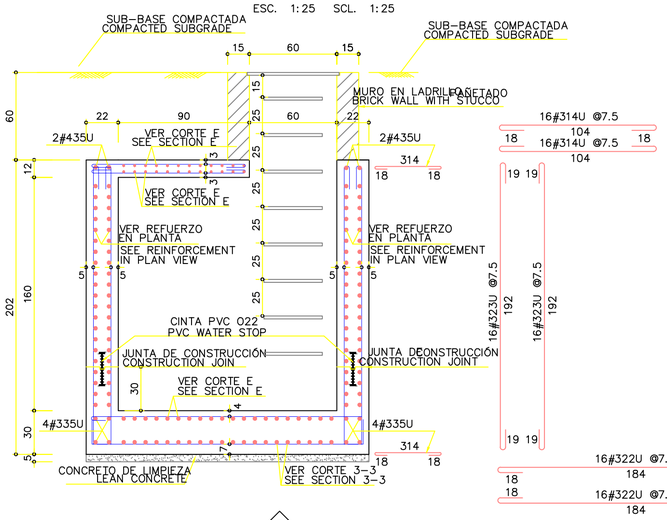
PLANTA FONDO TANQUE SÉPTICO
PLAN VIEW OF SEPTIC TANK BOTTOM
ESC. 1:25 SCL. 1:25



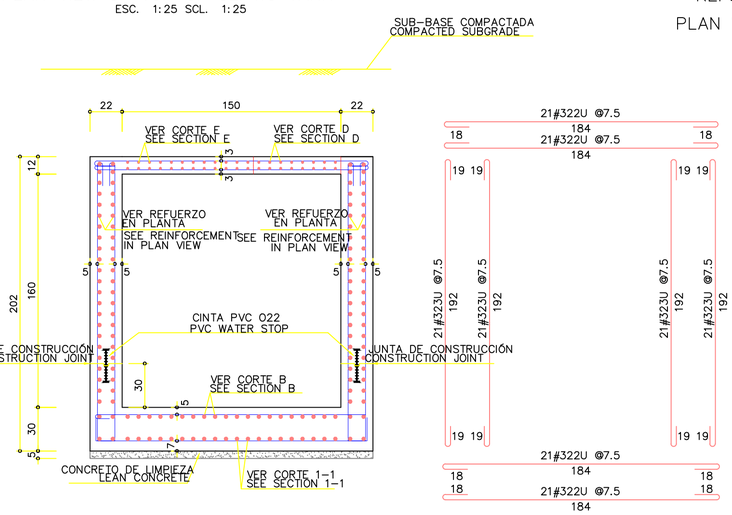
PLANTA TAPA TANQUE SÉPTICO
PLAN VIEW OF TOP OF SEPTIC TANK
ESC. 1:25 SCL. 1:25



REFUERZO HORIZONTAL MUROS TANQUE EN PLANTA
PLAN VIEW OF TANK WALL HORIZONTAL REINFORCEMENT
ESC. 1:25 SCL. 1:25



REFUERZO
REINFORCEMENT
ESC. 1:25



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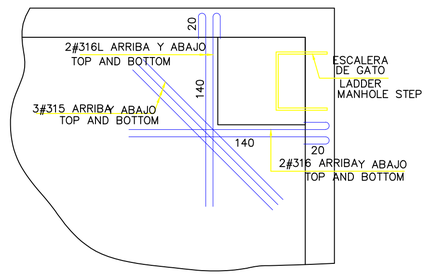
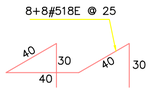
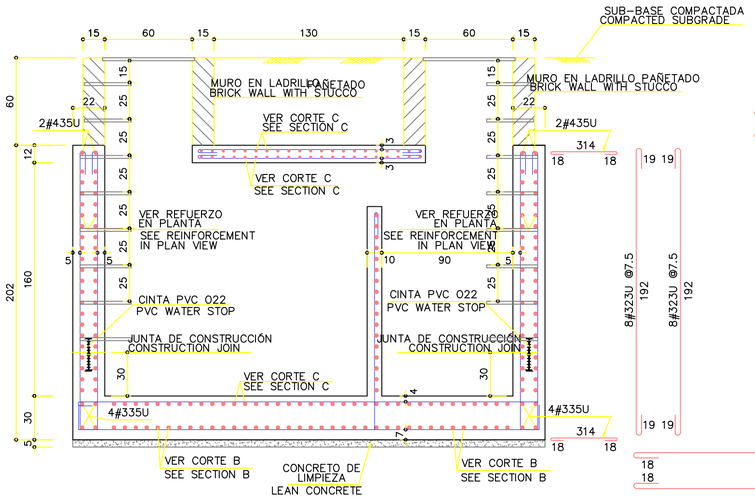
REINFORCEMENT SECTION
ESC. 1:25 CSL. 1:25



REFUERZO ADICIONAL EN PLANTA ZONA DE ACCESO
ADD. REINFORCEMENT AT ACCEESS AREA
ESC. 1:25 CSL. 1:25



ESCALERA DE GATO
LADDER MANHOLE STEP
ESC. 1:25 SCL. 1:25



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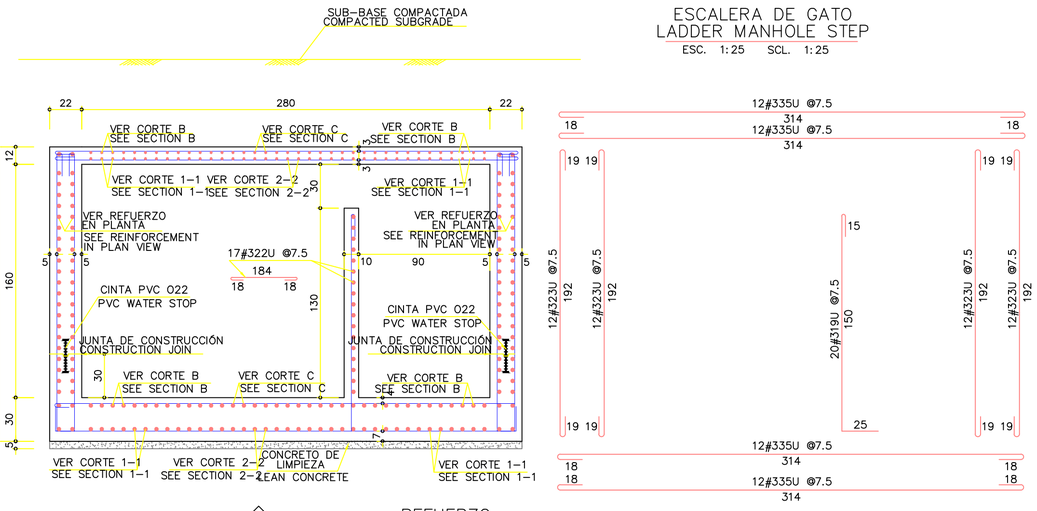
ESC. 1:25 SCL. 1:25



REFUERZO
REINFORCEMENT SECTION
ESC. 1:25 SCL. 1:25

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I.N.L. SECTION
BOGOTÁ , COLOMBIA

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INTERNATIONAL NARCOTICS AND LAW ENFORCEMENT SECTION
EMBASSY OF THE UNITED STATES,
BOGOTÁ, COLOMBIA

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

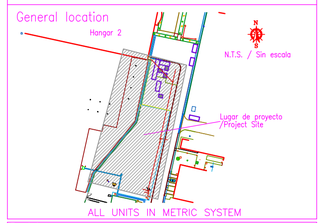
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT
FIRM FECHA

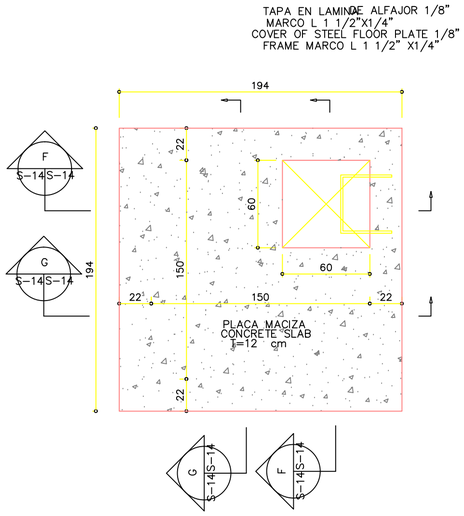
Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

Drawing title:
TANQUE SEPTICO
SEPTIC TANK

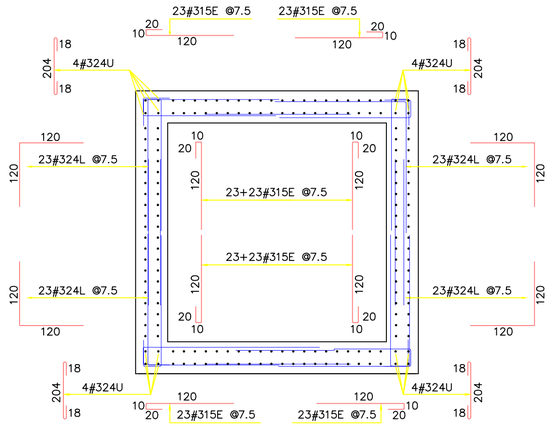
Drawing file: NEW SHOPS .DWG
Scale: 1:25

Code: S-13

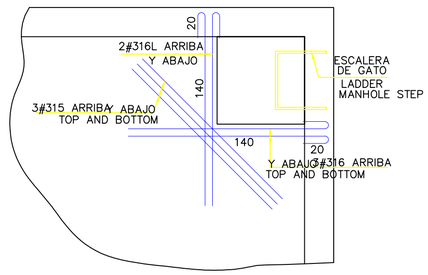
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



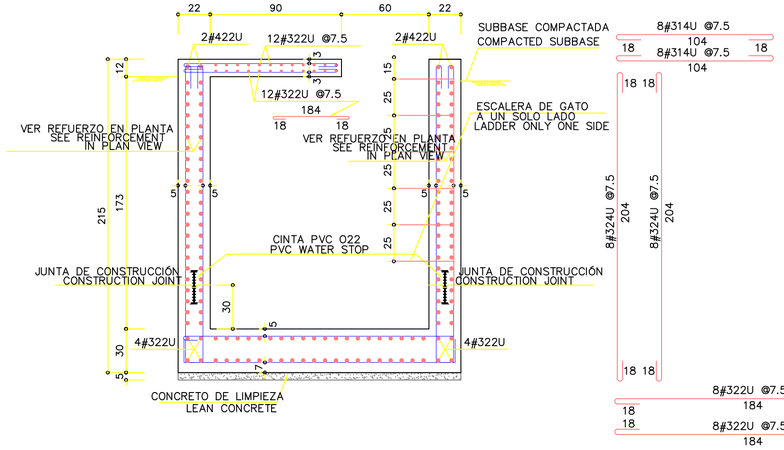
PLANTA POZO EYECTOR
PLAN VIEW OF PUMP STATION
ESC. 1:25 SCL. 1:25



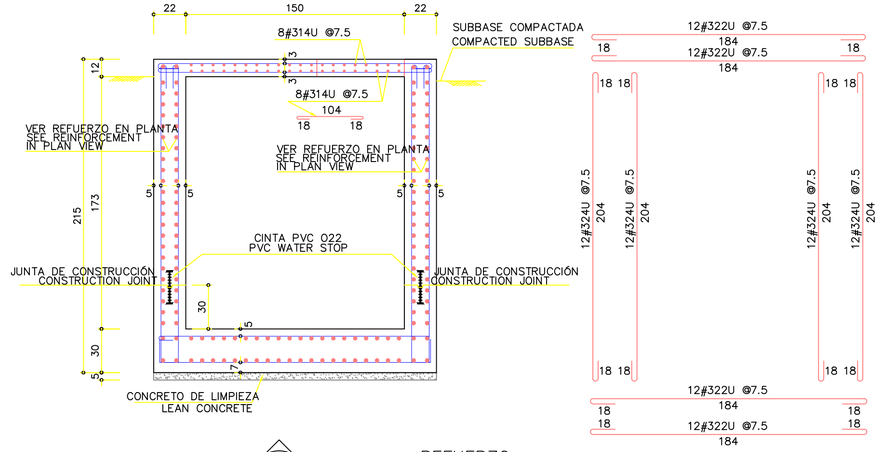
REFUERZO HORIZONTAL MUROS POZO EN PLANTA
PLAN VIEW OF PUMP STATIUM WALL HORIZONTAL REINFORCEMENT
ESC. 1:25 SCL. 1:25



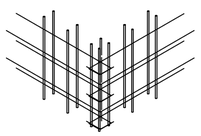
REFUERZO ADICIONAL EN PLANTA ZONA DE ACCESO
PLAN VIEW OF ADDITIONALREINFORCEMENT AT ACCESS AREA
ESC. 1:25 SCL. 1:25



REFUERZO
REINFORCEMENT
ESC. 1:25 SCL. 1:25



REFUERZO
REINFORCEMENT
ESC. 1:25 SCL. 1:25



ISOMETRICO ESQUINA REFUERZO
ISOMETRIC VIEW OF REINFORCEMENT
ESC. 1:20 SCL. 1:20

ESCALERA DE GATO
LADDER MANHOLE STEP
ESC. 1:25 SCL. 1:25

ESPECIFICACIONES TANQUE SÉPTICO
PUMP STATION SPECIFICATIONS

NOTAS: NOTES:

1. CONCRETO: FC = 28.0 MPA (280 KG/ cm^2). RELACION A/C <=0.45
1. CONCRETE: FC = 28.0 MPA (280 KG/ cm). WCC RATIO <=0.45
2. EL ACERO DE REFUERZO FY = 420 MPA. (4200 KG/ cm) NTC. 2289
2. REINFORCING STEEL FY = 420 MPA. (4200 KG/ cm) NTC. 2289
3. EL RECUBRIMIENTO MINIMO SERA DE 5 cm EN MUROS
3. MINIMUM CLEARANCE AT WALLS 5 cm
4. INCLUSOR DE AIRE 4%
4. AIR ENTRAINING 4%
5. CURADO MINIMO DE 7 DIAS CON HUMEDECIMIENTO PERMANENTE
5. MINIMUM CURING 7 DAYS WITH PERMANENT MOISTURE
6. γ = 16 KN/M3 KA = 0.5
6. γ = 16 KN/M3 KA = 0.5
7. LA ESTRUCTURA DEBE IR CIMENTADA SOBRE UN SOLADO DE CONCRETO DE LIMPIEZA DE 5 CENTIMETROS DE ESPESOR.
7. STRUCTURE SHALL BE FOUNDED ON 5 cm OF LEAN CONCRETE.
8. REFERIRSE A ESPECIFICACIONES PARA EXCAVACION
8. SEE SPECS FOR EXCAVATION
9. EL RECUBRIMIENTO INDICADO SERA A LA CARA EXTERIOR DEL REFUERZO.
9. CONCRETE COVER, AS SHOWN, SHALL BE MEAUSURED FROM THE OUTSIDE FACE OF THE OUTSIDE FACE OF REINFORCEMENT
10. TOMAR 6 CILINDROS PARA PRUEBA DE CALIDAD DEL CONCRETO. FALLAR 2 A 7 DIAS, 2 A 14 DIAS Y 2 A 28 DIAS.
10. TAKE 6 CYLINDER FOR CONCRETE QUALITY TEST, TEST 2 AT 7 DAYS, 2 AT 14 DAYS AND 2 AT 28 DAYS.

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EMBASSY OF THE UNITED STATES,
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COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

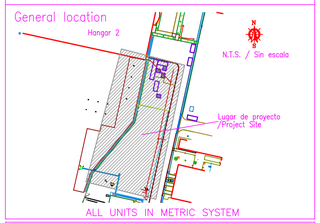
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
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8		
9		
10		

AS-BUILT
FIRMA FECHA

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

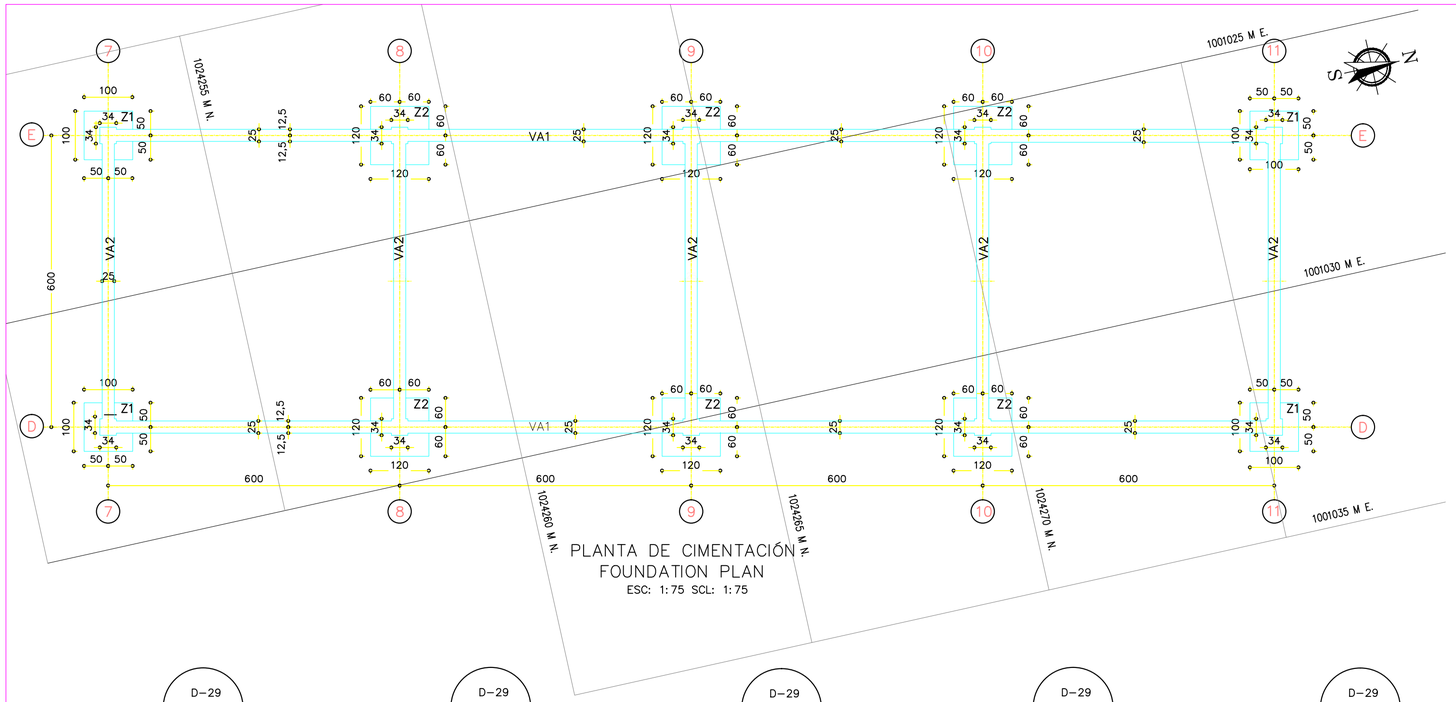
Drawing title:
PUMP STATION
TANQUE DE BOMBEO

Drawing file: NEW SHOPS .DWG

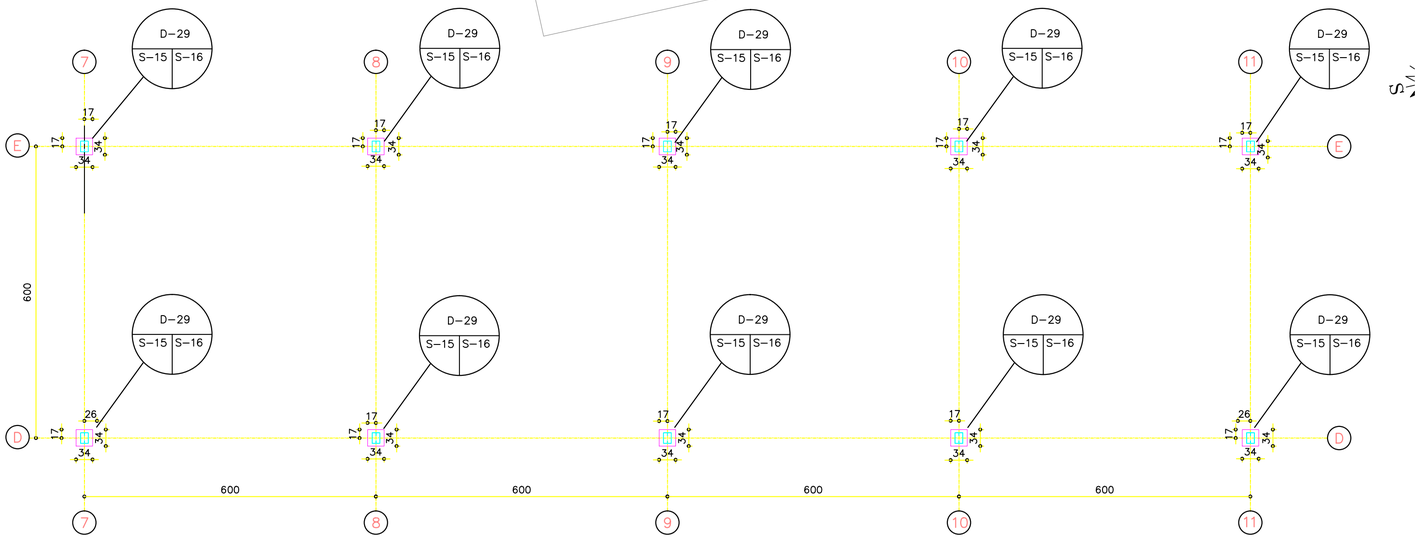
Scale: 1:INDICADA 1:AS SHOWN

Code: S-14

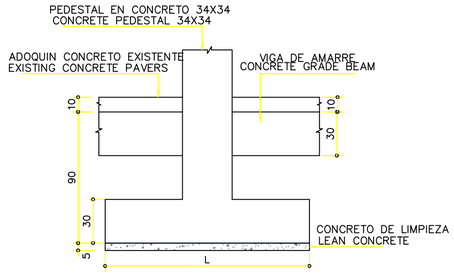
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



PLANTA DE CIMENTACIÓN
FOUNDATION PLAN
ESC: 1:75 SCL: 1:75



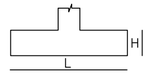
PLANTA DE EJES Y COLUMNAS
AXIS AND COLUMN PLAN
ESC: 1:75 SCL: 1:75

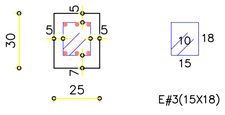


CORTE TIPICO CIMENTACIÓN
TYP FOUNDATION SECTION
ESC. 1:25 SCL. 1:25

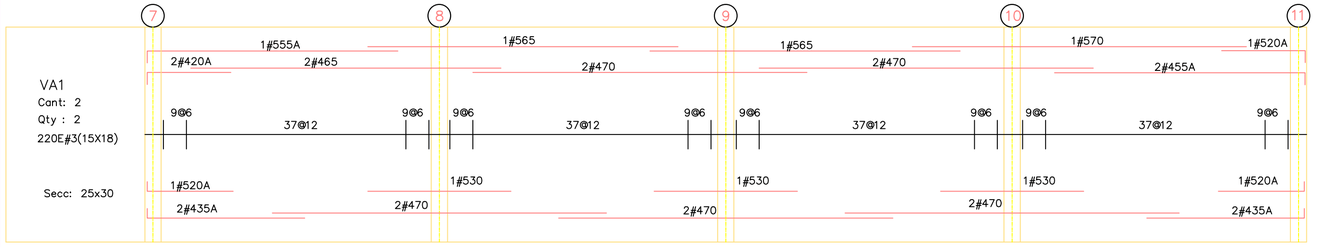
CUADRO DE ZAPATAS
FOOTING SCHEDULE

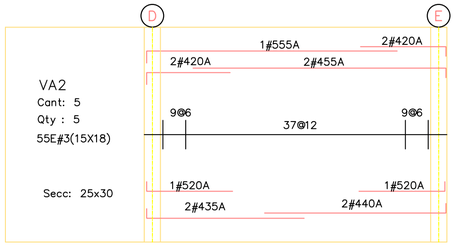
ZAPATA TIPO / FOOTING TYPE	L X L / L X L	H (cm) / H (cm)	CANT. / QTY.	REFUERZO / REINFORCEMENT
Z1	100 X 100	30	4	20 5#413E @20 20 / 90 EN AMBOS SENTIDO BOTH WAY
Z2	120 X 120	30	6	20 6#415E @20 20 / 110 EN AMBOS SENTIDO BOTH WAY





CORTE VIGA VA1–VA2
BEAMS VA1–VA2 SECTION
ESC. 1:20 SCL. 1:20





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I.N.L. SECTION
BOGOTÁ , COLOMBIA

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

COR: I.N.L. PROJECT ARCHITECT/ENGINEER

PROJECT DESIGN / MANAGEMENT

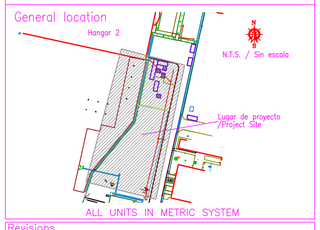
HCSgroup
Engineering and Technical Solutions
8401 Crossland Loop, Montg. AL 36117
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

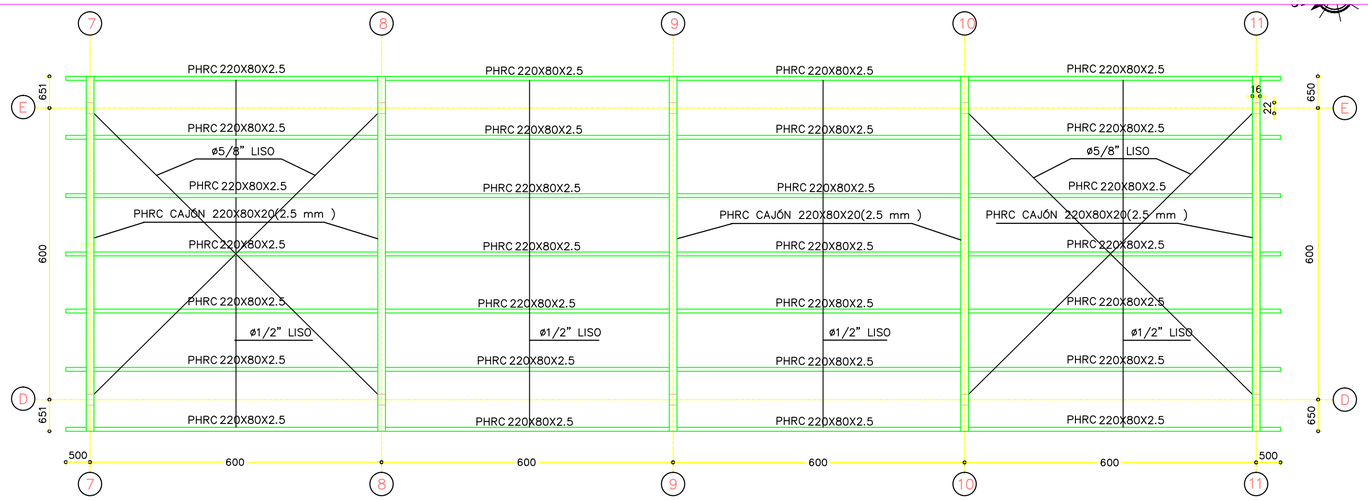
Drawing title:
HANGAR GSE – GSE SHED
PLANTA CIMENTACION–FOUNDATION PLANT
PLANTA EJES COLUMNAS–
AXIS AND COLUMN PLAN
CUADRO DE ZAPATAS – FOOTING SCHEDULE

Drawing file: NEW SHOPS .DWG

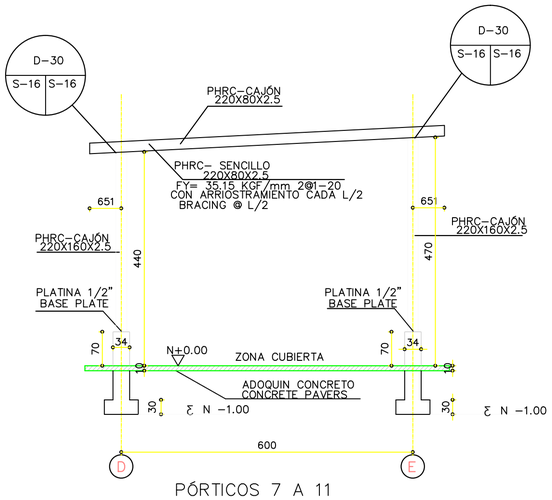
Scale: 1:INDICADA / 1:AS SHOWN

Code: S-15

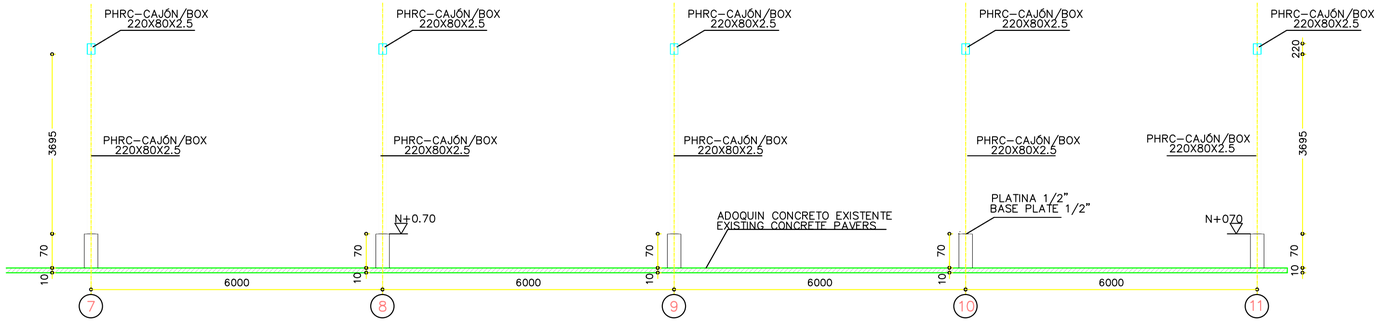
Drawing date: OCTOBER. 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



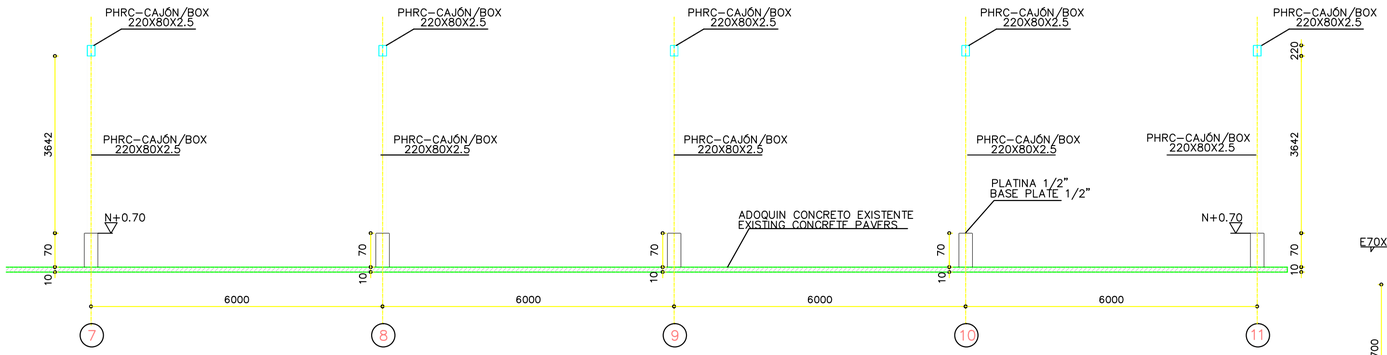
PLANTA DE CUBIERTA
ROOF PLAN
ESC: 1:75 SCL: 1:75



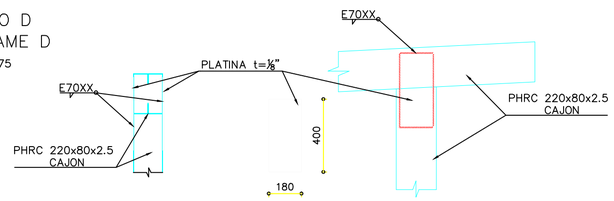
PÓRTICOS 7 A 11
FRAMES 7 TO 11
ESC: 1:75 SCL: 1:75



ALZADO PÓRTICO E
ELEVATION OF FRAME E
ESC: 1:75 SCL: 1:75

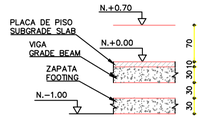


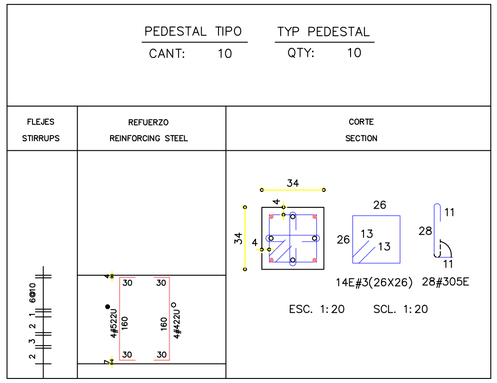
ALZADO PÓRTICO D
ELEVATION OF FRAME D
ESC: 1:75 SCL: 1:75



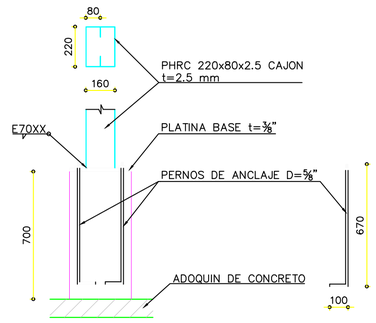
D-30
S-16 S-16

UNION VIGA COLUMNA
BEAMS – COLUMN JOINT
ESC. 1:20 SCL. 1:20



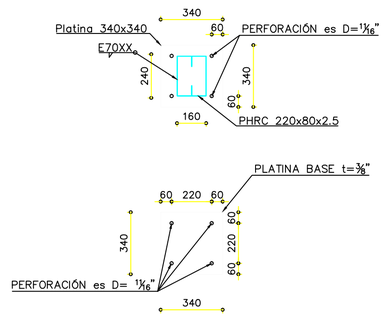


DESPIECE DE PEDESTAL
CONCRETE PEDESTAL REINFORCEMENT
ESC. 1:50 SCL. 1:50



CORTE PEDESTAL
PEDESTAL SECTION
ESC. 1:20 SCL. 1:20

D-29
S-16 S-15



PLANTA
PLAN VIEW
CANT: 10
QTY: 10

PLATINA BASE DE COLUMNA
BASE COLUMN PLATE
ESC. 1:20 SCL. 1:20

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BOGOTÁ , COLOMBIA

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PROJECT DESIGN / MANAGEMENT

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Engineering and Technical Solutions
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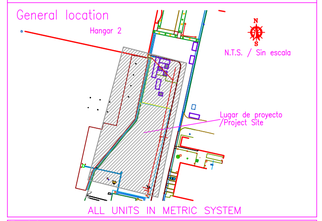
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.: SC015013M0030
Contract/PO date: OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
5		
6		
7		
8		
9		
10		

AS-BUILT

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

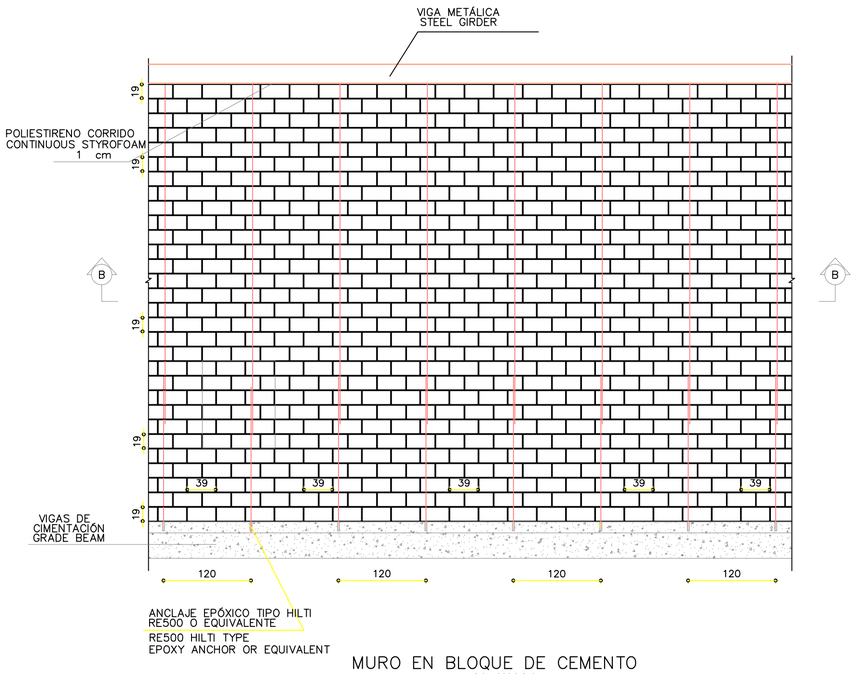
Drawing title:
HANGAR GSE – GSE SHED
PLANTA DE CUBIERTA – ROOF PLAN
ALZADO DE PORTICOS–FRAME ELEVATION

Drawing file: NEW SHOPS .DWG

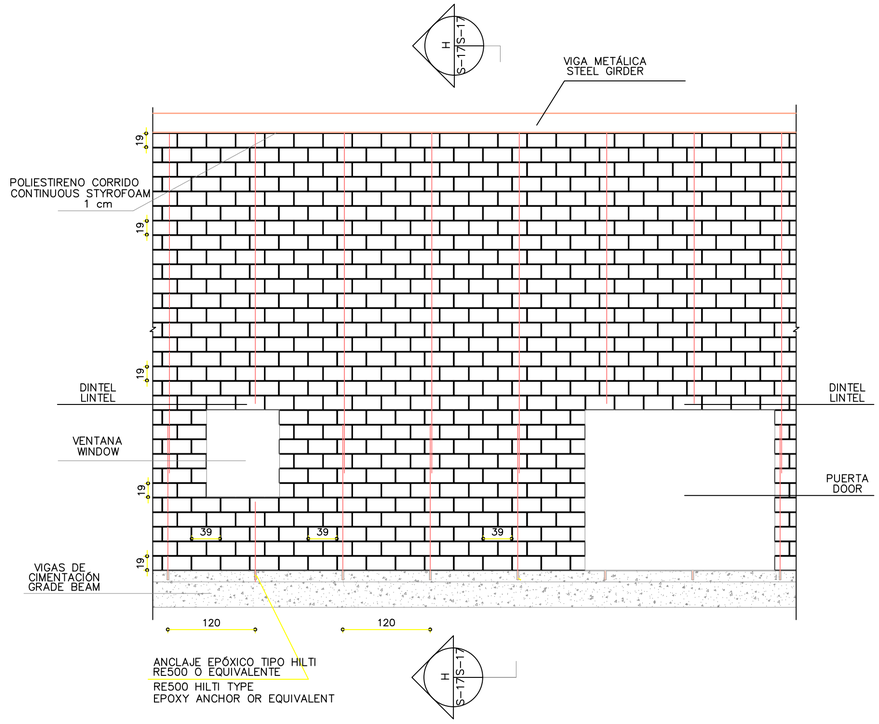
Scale: 1:INDICADA 1:AS SHOWN

Code: S-16

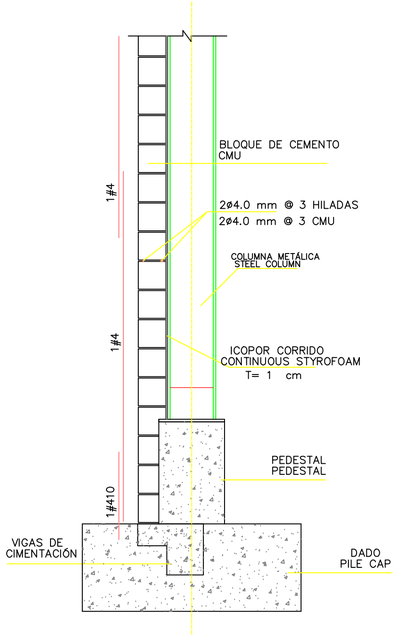
Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



MURO EN BLOQUE DE CEMENTO
cmU WALL
ESC. 1:50

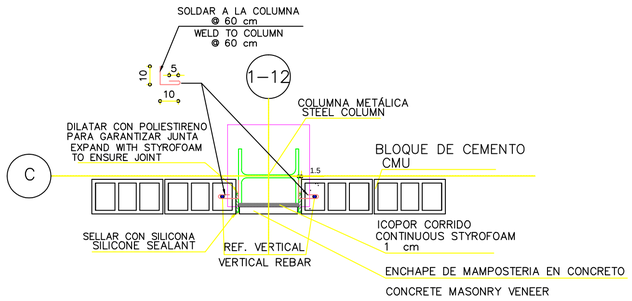


MURO EN BLOQUE DE CEMENTO
CMU WALL
ESC. 1:50

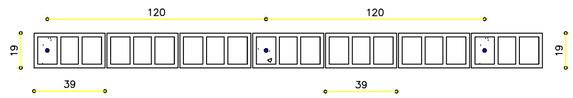


H
S-17 S-17

CORTE TÍPICO MURO EN BLOQUE DE CEMENTO
TYP cm U WALL SECTION
ESC. 1:25 SCL. 1:25

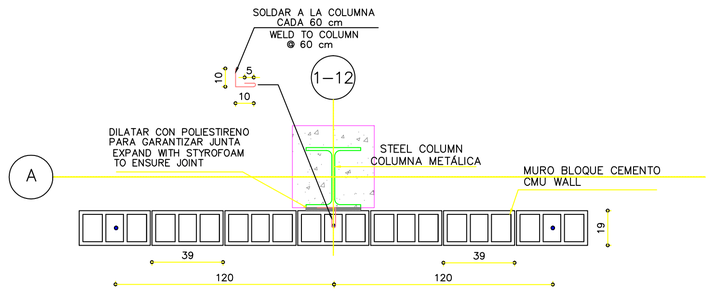


DETALLE DILATACION MUROS A COLUMNA
EXPANSION JOINT BETWEEN METAL COLUMN AND CMU
ESC. 1:20 SCL. 1:20



B

PLANTA EN BLOQUE DE CEMENTO
TYP cm U WALL PLAN VIEW
LLENAR CON GROUT CELDA DONDE EXISTA REFUERZO VERTICAL
FILL WITH GROUT CELL WITH VERTICAL REINFORCEMENT
ESC. 1:20 SCL. 1:20



DETALLE DILATACION MUROS A COLUMNA
DETAIL OF EXPANSION cm U WALL COLUMN
ESC. 1:20 SCL. 1:20

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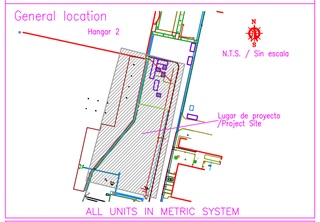
Phone: (334) 277-6737

NEW SHOPS BUILDING
CNP HANGAR 2, GUAYMARAL
BOGOTÁ, CUNDINAMARCA

Contract/PO No.:	Contract/PO date:
SC015013M0030	OCT. 2012

Legends/Remarks

General location



ALL UNITS IN METRIC SYSTEM

Revisions

Rev.No.	Description	Date
1		
2		
3	90% Submittal	July 16
4	90% Submittal	Sep 11
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AS-BUILT
FIRM PROF.

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

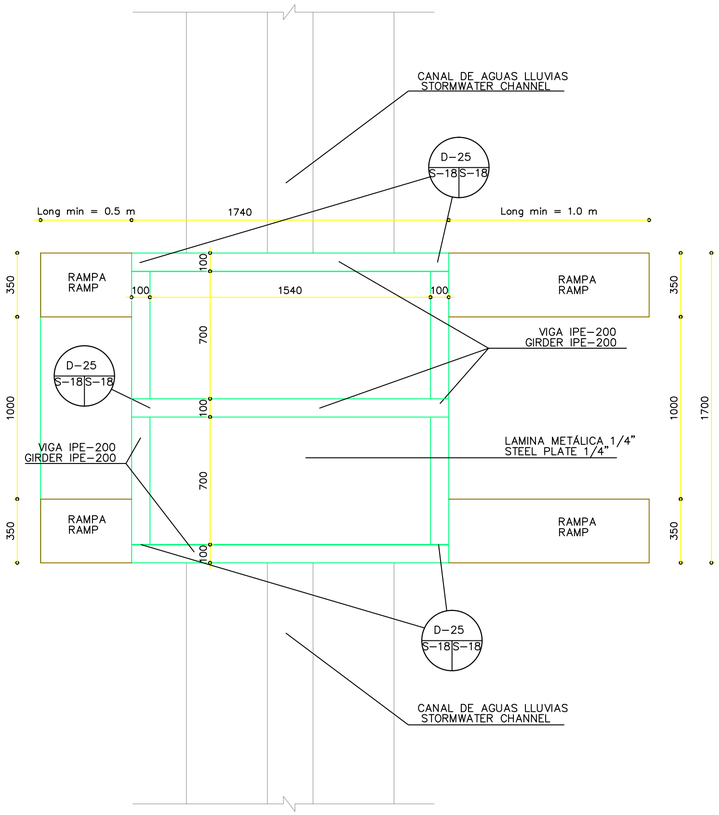
Drawing title:
DETALLE DE MUROS
WALL DETAILS

Drawing file: NEW SHOPS .DWG

Scale: 1:INDICADA 1:AS SHOWN

Code: S-17

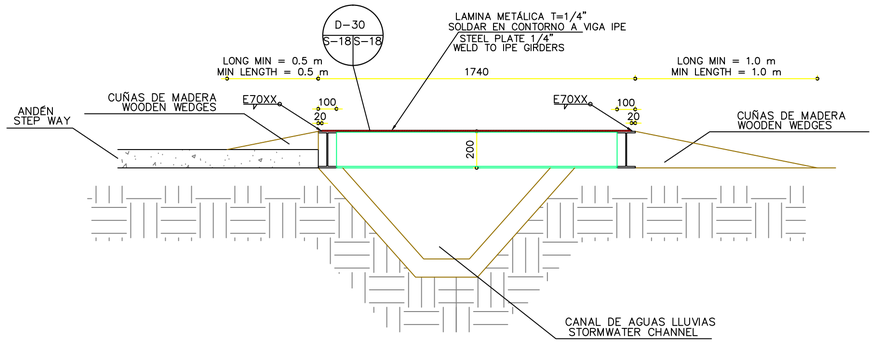
Drawing date: OCTOBER. 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature:



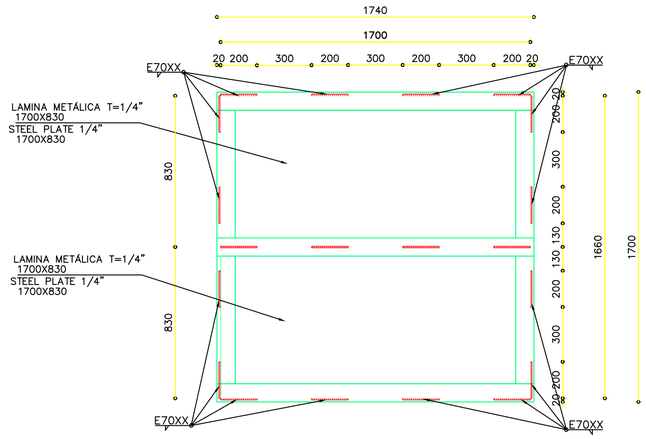
VISTA EN PLANTA
PLAN VIEW

PONTÓN PARA MONTACARGAS
FORKLIFT TRUCK PONTOON

ESC. 1:20 SCL. 1:20



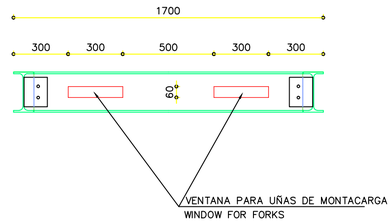
VISTA EN ALZADO
ELEVATION VIEW
ESC. 1:20 SCL. 1:20

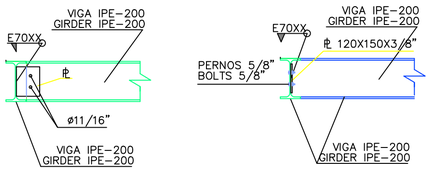


D-30
S-18 S-18

DETALLE LAMINA DE CUBIERTA PONTÓN
STEEL PLATE OVER PONTOON

ESC. 1:20 SCL. 1:20

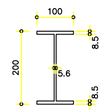




D-25
S-18 S-18

UNION ENTRE VIGAS
BEAMS JOINT

ESC. 1:20 SCL. 1:20



VIGA IPE-200

ESC. 1:10

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SC015013M0030	OCT. 2012

Legends/Remarks

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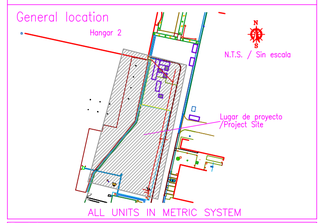

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AS-BUILT

Phase:
☐35% ☐60% ☐90% ☒100% ☐AS BUILT

Drawing title:
PONTÓN PARA MONTACARGAS
FORKLIFT TRUCK PONTOON

Drawing file: NEW SHOPS .DWG

Scale: 1:INDICADA / 1:AS SHOWN

Code: S-18

Drawing date: OCTOBER, 2013
Designed by: FREDERICK LANGEBECK
Profession: CIVIL ENGINEER
Professional ID: 2520246672CND
Signature: