

CAMANO
architecture
CALLE COSTA 391
OFFICE 201
SAN JUAN PR 00918
T/ 787 220 8633
E/ luiscamanos@gmail.com

CLIENT	INTERLINK CONSTRUCTION LLC
DESIGN	CARLOS M PEREZ RIVERA, PE
DRWN BY	CMR
CHK'D BY	CMR
DATE	SEPTEMBER 30, 2021

REVISIONS

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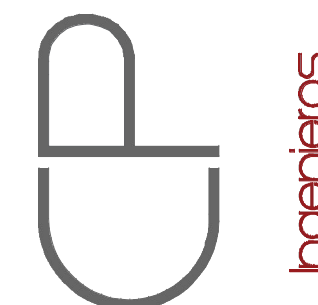
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Fecha de Expiración: 2026-07-14

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
ccpingenieros@outlook.com



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PROJECT
MIRADOR LAS CASAS
FULL REHABILITATION
SANTURCE, PR

TITLE

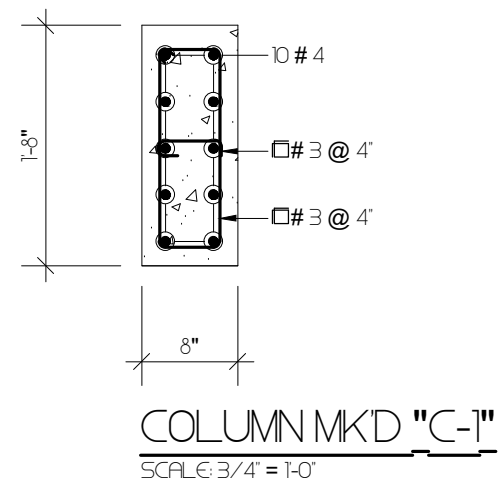
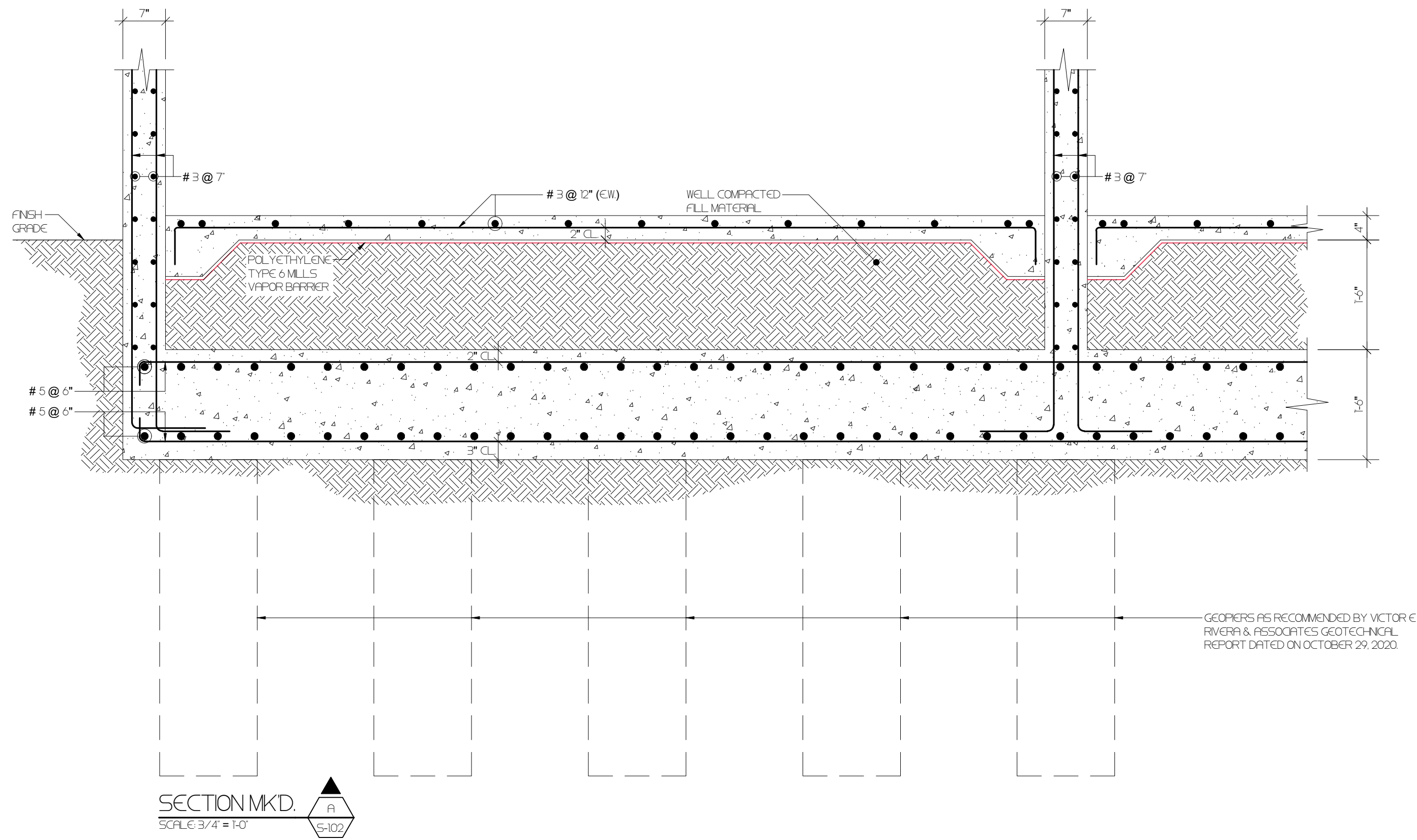
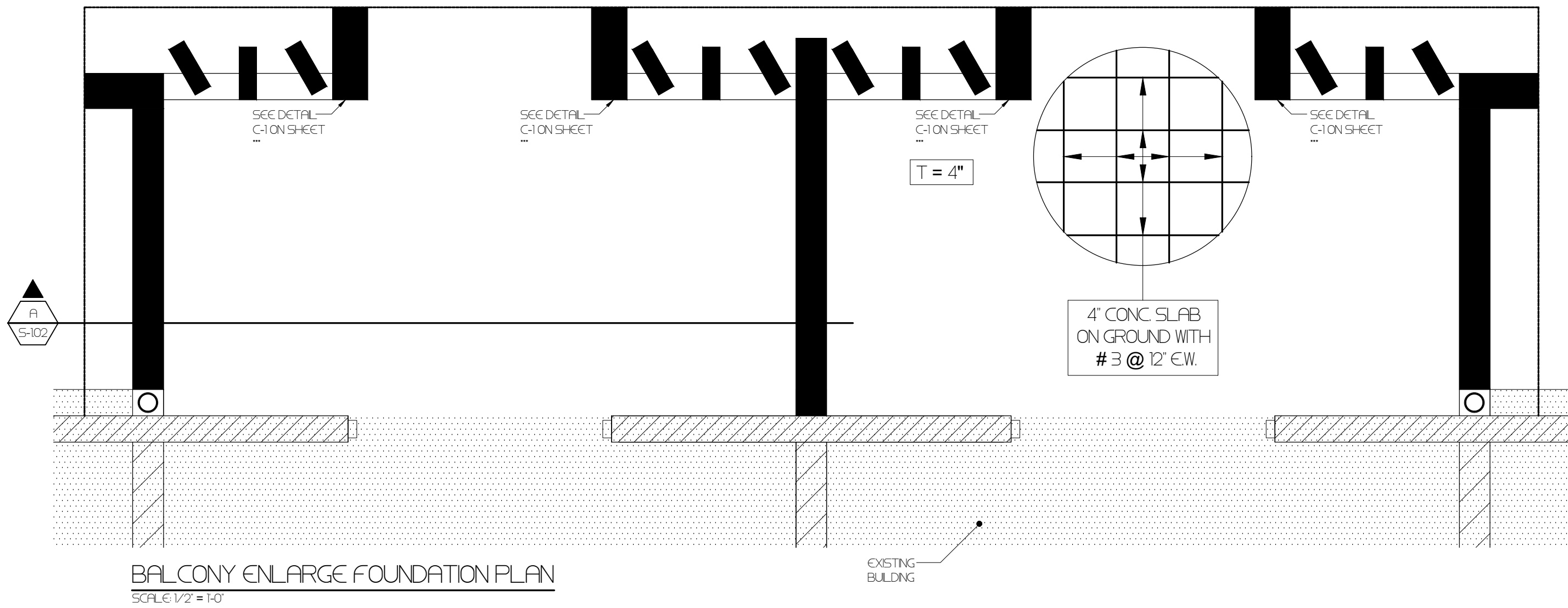
STRUCTURAL STAIR

PAGE

S-1.01

1 OF 1

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ARCHITECTS
CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
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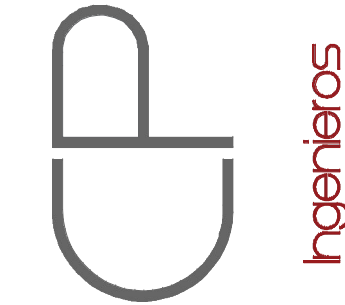
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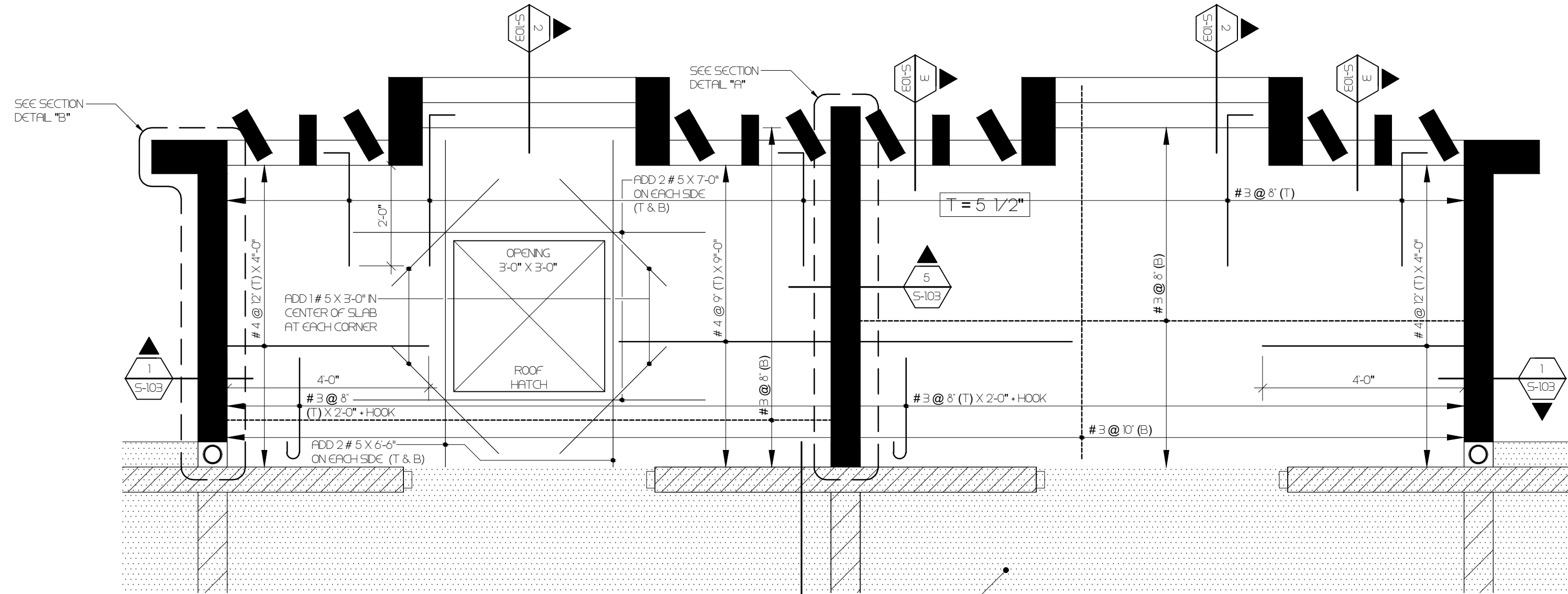
TITLE
STRUCTURAL
BALCONY FOUNDATION
PLAN

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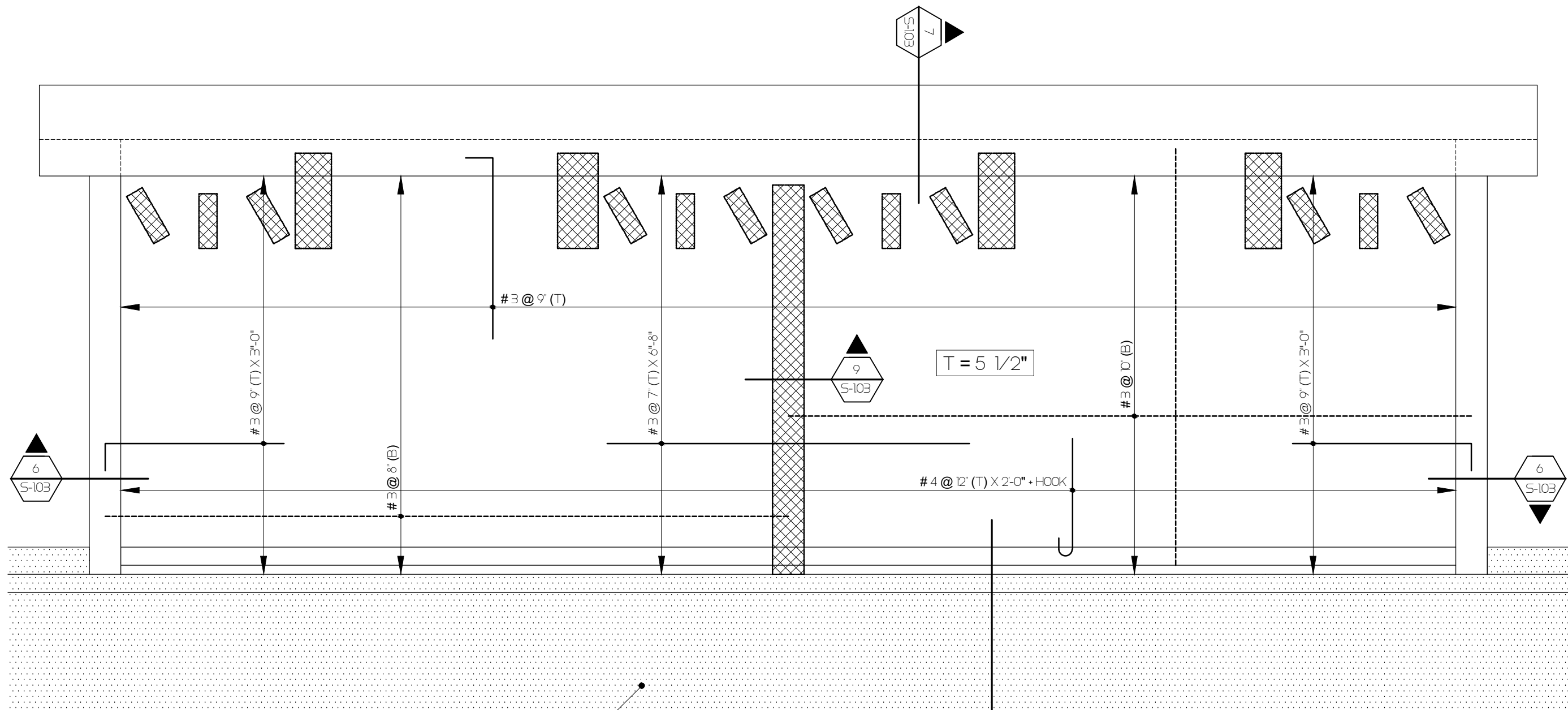
1 OF 1

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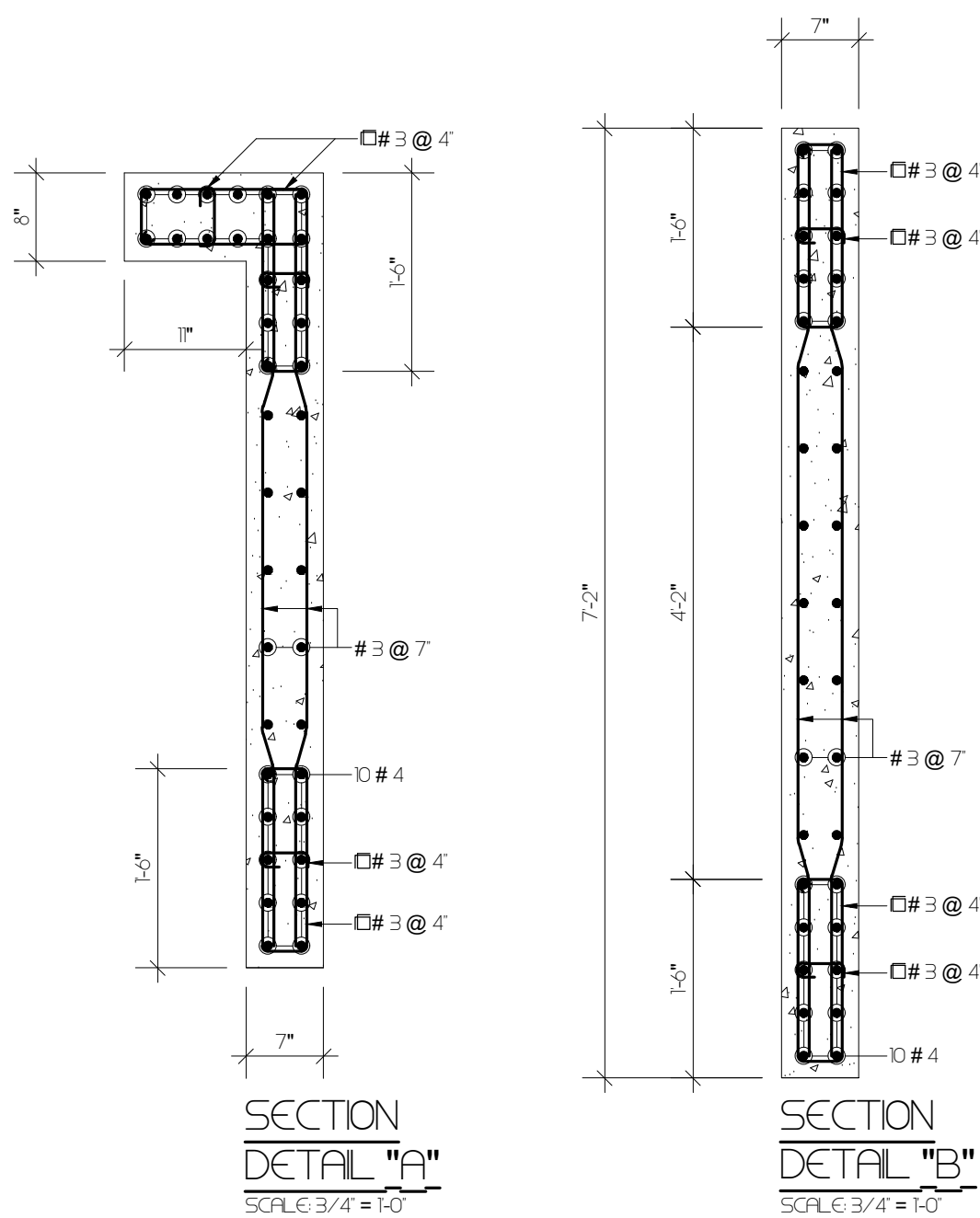


2ND & 3RD FLOOR BALCONY ENLARGE
STRUCTURAL SLAB
SCALE 1/2" = 1'-0"

NOTE:
SHALL BE CONSTRUCTED ONE ROOF HATCH
PER BUILDING.

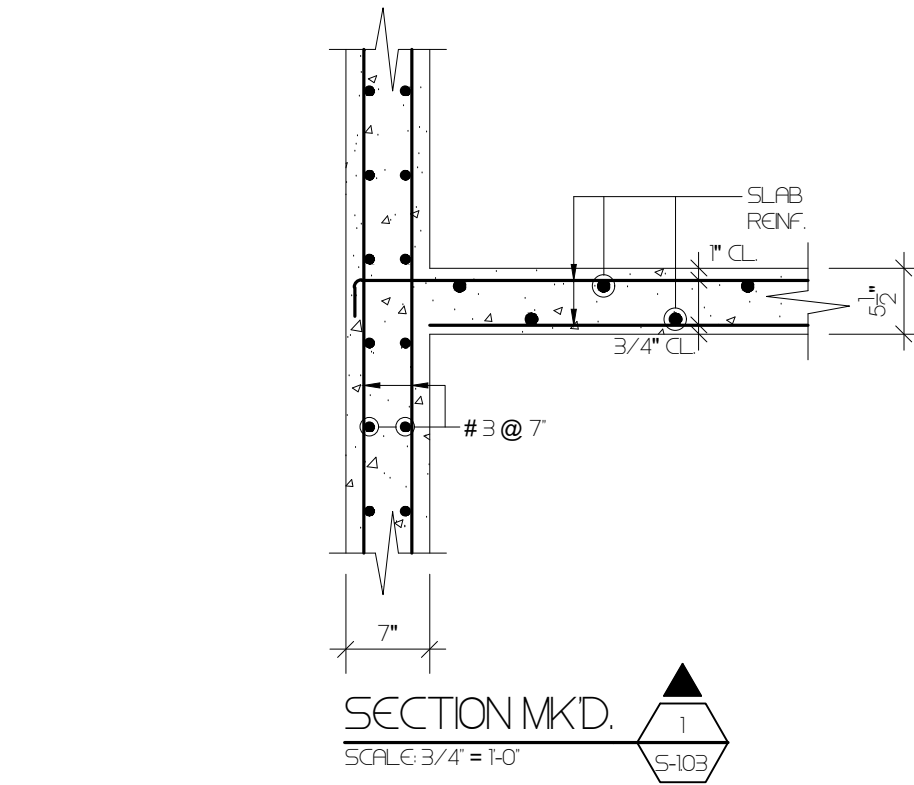


STRUCTURAL ROOF SLAB
SCALE 1/2" = 1'-0"

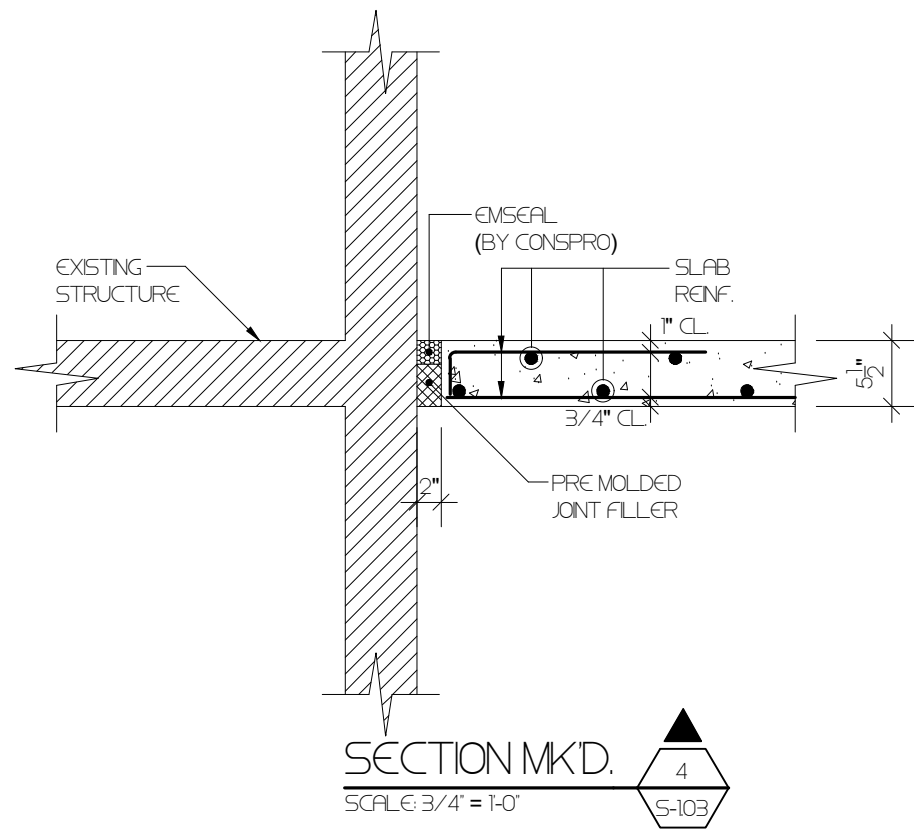


SECTION
DETAIL "A"
SCALE 3/4" = 1'-0"

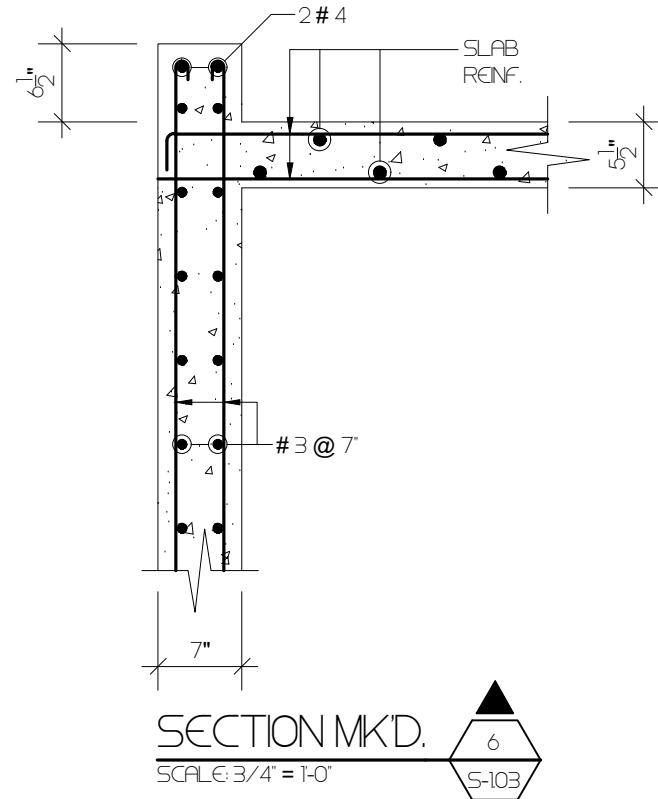
SECTION
DETAIL "B"
SCALE 3/4" = 1'-0"



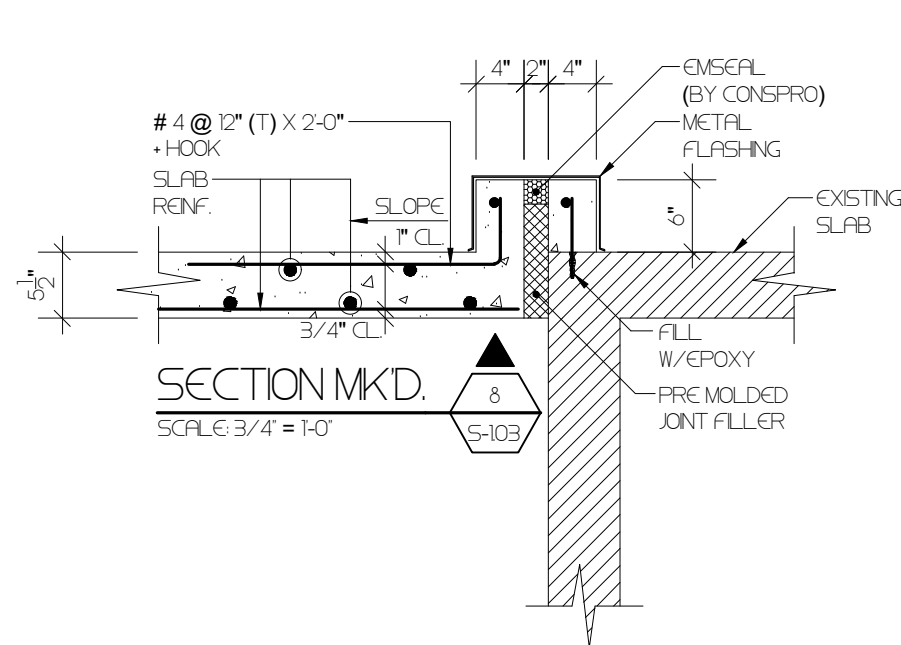
SECTION MKD. 1
SCALE 3/4" = 1'-0"



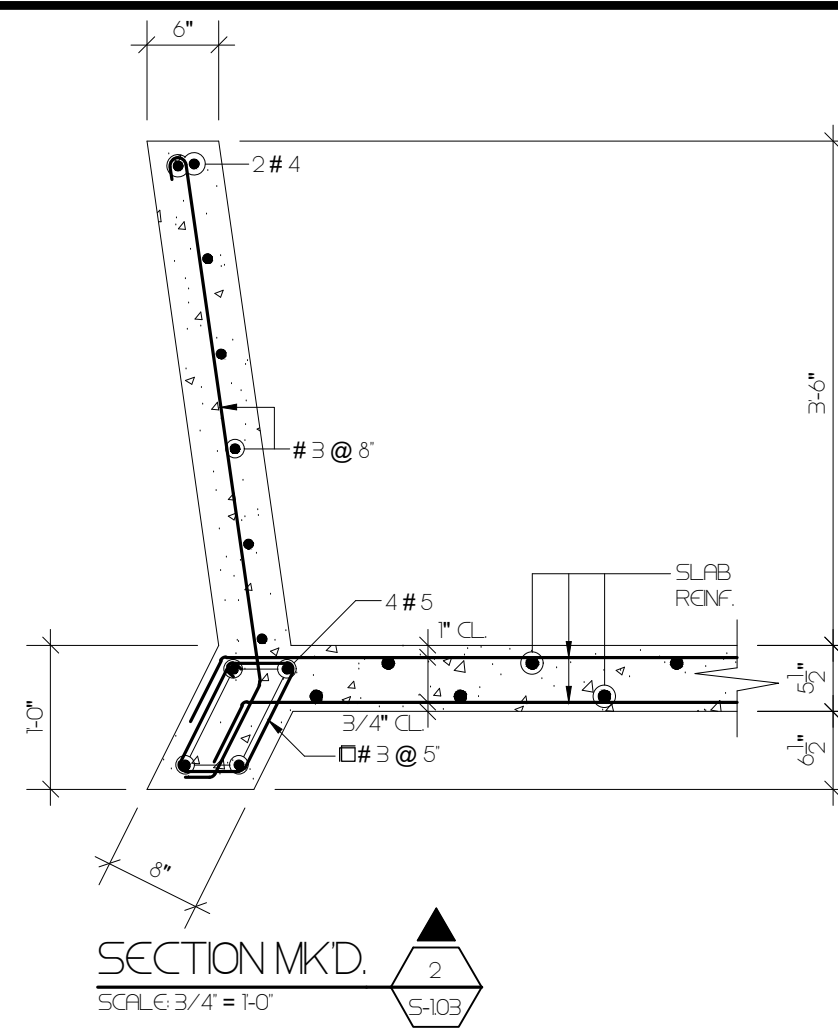
SECTION MKD. 4
SCALE 3/4" = 1'-0"



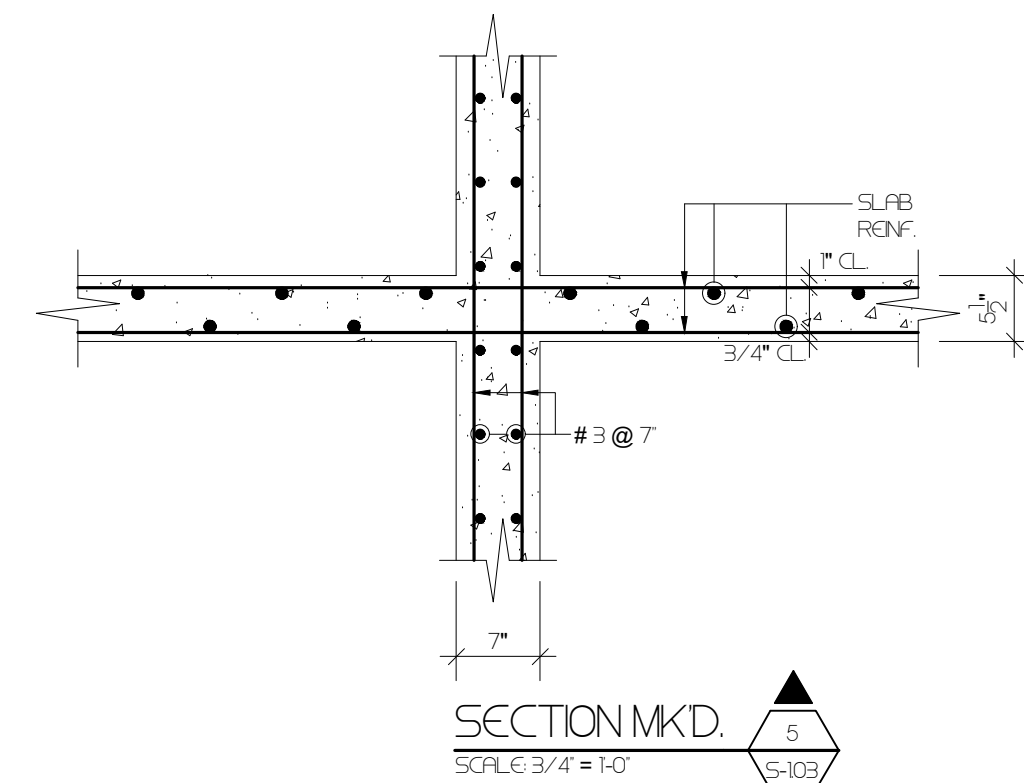
SECTION MKD. 6
SCALE 3/4" = 1'-0"



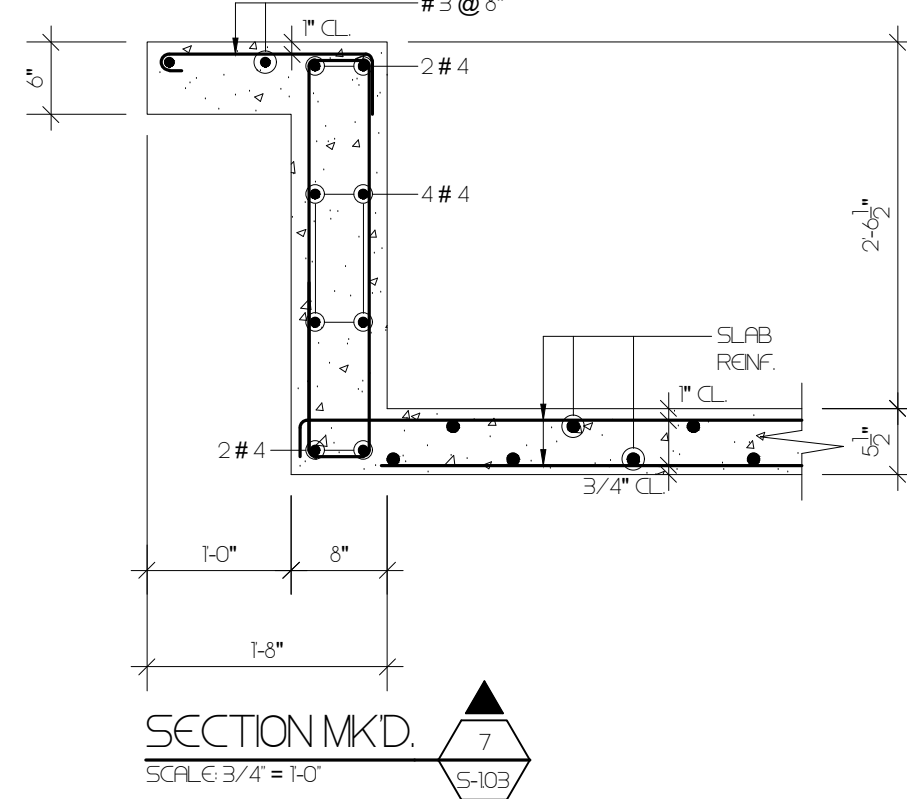
SECTION MKD. 8
SCALE 3/4" = 1'-0"



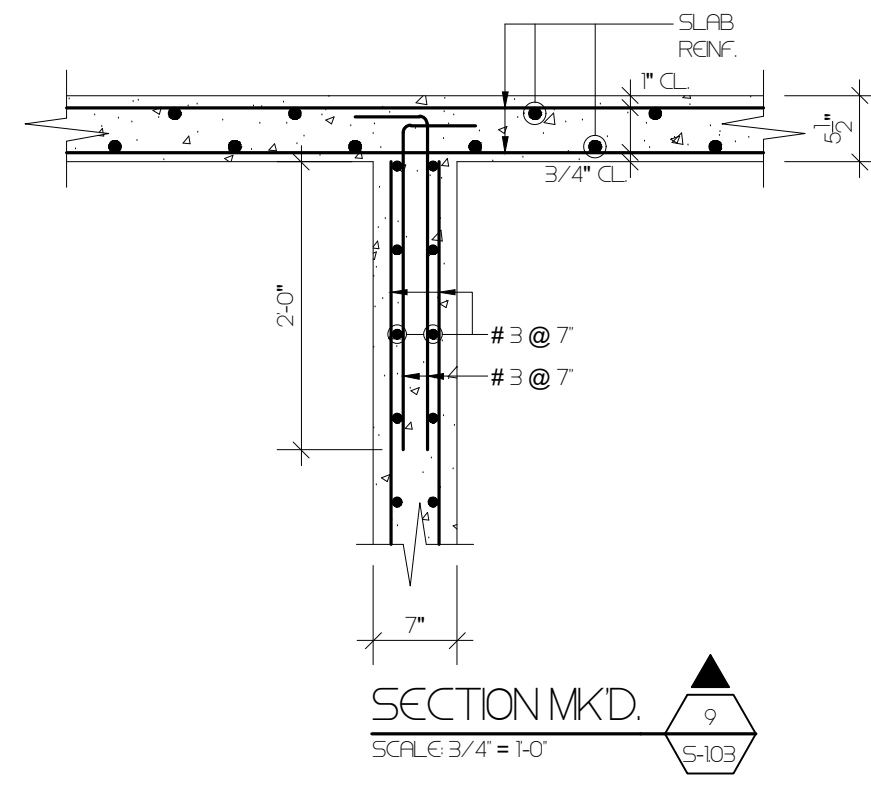
SECTION MKD. 2
SCALE 3/4" = 1'-0"



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



SECTION MKD. 7
SCALE 3/4" = 1'-0"



SECTION MKD. 9
SCALE 3/4" = 1'-0"

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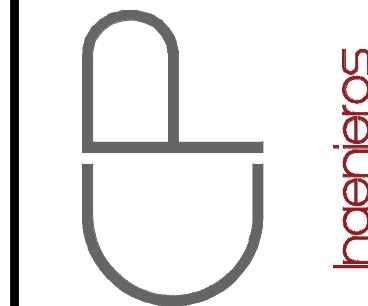
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PROJECT
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FULL REHABILITATION
SANTURCE, PR

TITLE
STRUCTURAL 2ND, 3RD AND
ROOF PLAN
AND DETAILS

PAGE

S-1.03

1 OF 1

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STRUCTURAL NOTES:

- ALL CONCRETE SHALL DEVELOP A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:
SLAB ON GRADE: 3,000 P.S.I.
FOOTINGS: 4,000 P.S.I.
COLUMNS AND WALLS: 3,000 P.S.I.
BEAMS: 3,000 P.S.I.
STRUCTURAL SLAB: 3,000 P.S.I.
MAXIMUM WATER/CEMENT RATIO (W/C) SHALL NOT EXCEED .50
- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET DEFORMED HIGH STRENGTH GRADE STEEL CONFORMING TO ASTM ASTM A-615 LATEST EDITION (F_y=60,000 psi), EXCEPT
(1) THE MAXIMUM YIELD STRENGTH SHALL BE 78,000 psi AND (2) THE TENSILE STRENGTH SHALL NOT BE LESS THAN 1.25 THE ACTUAL YIELD STRENGTH.
- REINFORCE WALLS (UNLESS OTHERWISE SHOWN ON PLANS) AS FOLLOWS:
WALL THICKNESS HORZ. REINF. VERT. REINF.
6" #4@12" #4@12"
- ALL BARS LAP SPLICES SHALL BE ACI 318-14 CLASS B. ALL HORIZONTAL BARS ON WALLS AND FOUNDATION WALLS SHALL BE BENT AT LEAST 2'-0" BEYOND CORNERS.
- DOWELS SHALL BE SAME SIZE & NUMBER AS VERTICAL REINFORCEMENT EMBEDDED INTO THE FOOTING WITH A 90° HOOK IN CONTACT WITH FOOTING BOTTOM REINFORCEMENT AND EXTENDING 48 BAR DIAMETERS ABOVE FOOTING TOP.
- ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2#5 BARS PLACED 2" FROM THE FACE AND EXTENDING 2'-0" BEYOND CORNERS U.O.
- STEEL PROTECTION SHALL BE AS FOLLOWS:
a) - SLABS AND WALLS-----3/4"
b) - RETAINING WALLS (FACE IN CONTACT WITH GR.)-----1-1/2"
c) - BEAMS AND COLS-----1-1/2"
d) - FOOTINGS-----3"
e) - SLABS ON GR. (FACE IN CONTACT WITH GR.)-----1-1/2"
- ALL SLAB ON GROUND SHALL BE 4" THICK REINFORCED WITH #3@14" EACH WAY UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS.
- ALL BARS SHALL BE SPACED AND SUPPORTED WITH THE USE OF APPROVED ADEQUATE DEVICES.
- ALL REINFORCING WELDED WIRE FABRIC (W.W.F.) SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 psi.

DESIGN DATA

- DESIGN LOADS:
a) LIVE LOADS: 30.0 PSF
1) ROOF 40.0 PSF
2) FLOORS
b) WIND LOADS:
1) BASIC WIND SPEED 167 MPH (3-SECOND GUST)
c) EARTHQUAKE LOADS:
1) OCCUPANCY CATEGORY II
2) SITE CLASS E
- CODES:
a) IBC 18
b) ASCE 7-16
c) AISC 360-16
- ALLOWABLE SOIL BEARING CAPACITY:
F_b = 3,000 PSF AS PER SOIL REPORT PREPARED FOR THIS PROJECT BY VICTOR E. RIVERA ASSOCIATES,LLC DATED OCTOBER 20, 2020. THIS REPORT FORMS PART OF THESE DRAWINGS AND ITS RECOMMENDATIONS SHALL STRICTLY FOLLOWED.

A. Structural Steel

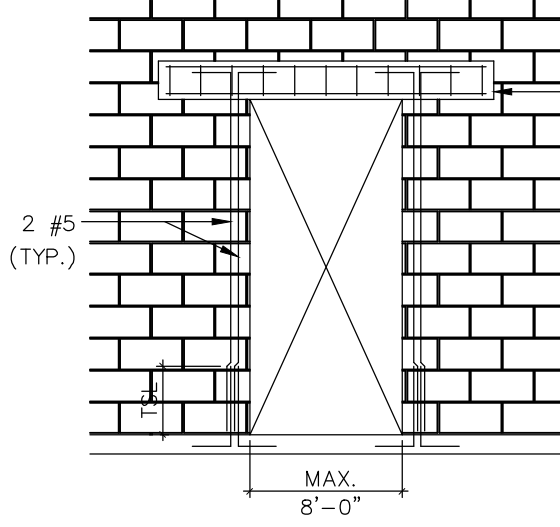
- All plates, M-shapes, S-shapes, HP-shapes, Channels and Angles structural steel sections shall be in accordance to ASTM A-36 Standard (F_y = 36 Ksi, F_u=58 Ksi). All W-shapes and WT-shapes structural sections shall be in accordance to ASTM A992 standard (F_y = 50 Ksi, F_u = 65 Ksi). These shall be erected in strict accordance with the latest "Specifications for the Design Fabrication and Erection of Structural Steel for Buildings" of the American Institute of Steel Construction. Submit shop drawings for approval.
- Structural tubular sections shall comply with ASTM A-500 Grade B (F_y = 45,000 psi).
- All welding electrodes shall consist of the E70-XX type.
- All steel deck type "C" shall be rolled-formed from not dipped galvanized steel G-90 coating conforming to ASTM A-446 with a minimum yield strength of f_y = 60,000 psi.
- All steel bolts shall conform to ASTM A-325 bolts. (Unless Noted)
- All Anchors and expansion bolts shall conform strictly to Manufacturers Specifications.
- Apply a rust inhibitor to all structural steel.

B. Masonry Walls

- Concrete masonry units shall be Type N-1 with compressive strength of 1,350 psi and shall meet the requirements of ASTM C140-75.
- Mortar shall be Type M and shall meet the requirements of ASTM C270-87a.
- Grout shall be meet the requirements of ASTM C476-83 with a slump of 9" with a compressive strength of 2,000 psi.
- All cells with vertical reinforcement shall be filled with grout.
- Horizontal reinforcement shall be Truss Type.
- Unless otherwise noted reinforce masonry walls as follows:
CMU Thick. Vertical Reinf. Horizontal Reinf.
4" #3@16" or #4@32" Dur-O-Wal STD E.O. Course
6" #3@16" or #4@32" Dur-O-Wal STD Every Course
6" #5@32" or #6@48" Dur-O-Wal Extra Heavy E.O. Course
- All wall corners shall be masonry bonded.

C. Special Notes

- Contractor to coordinate all dimensions and details with architectural and mechanical drawings. All conflicts or discrepancies are to be called to the attention of Engineer and/or Structural Engineer in timely manner so as to avoid work disruption.
- Shop Drawings shall not be reproductions, in whole or in part, of drawings prepared by engineer but shall be prepared entirely by manufacturer, fabricator or installer based on information within these drawings.

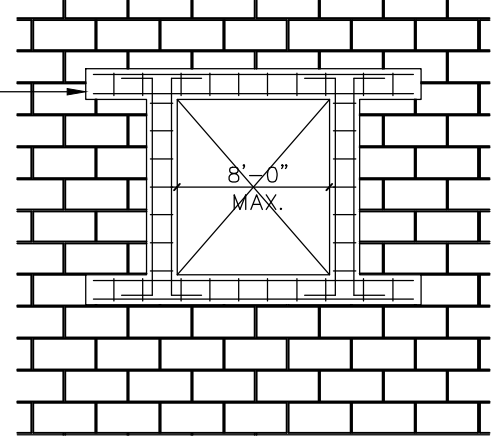


@ DOOR

OPENING NOTES:

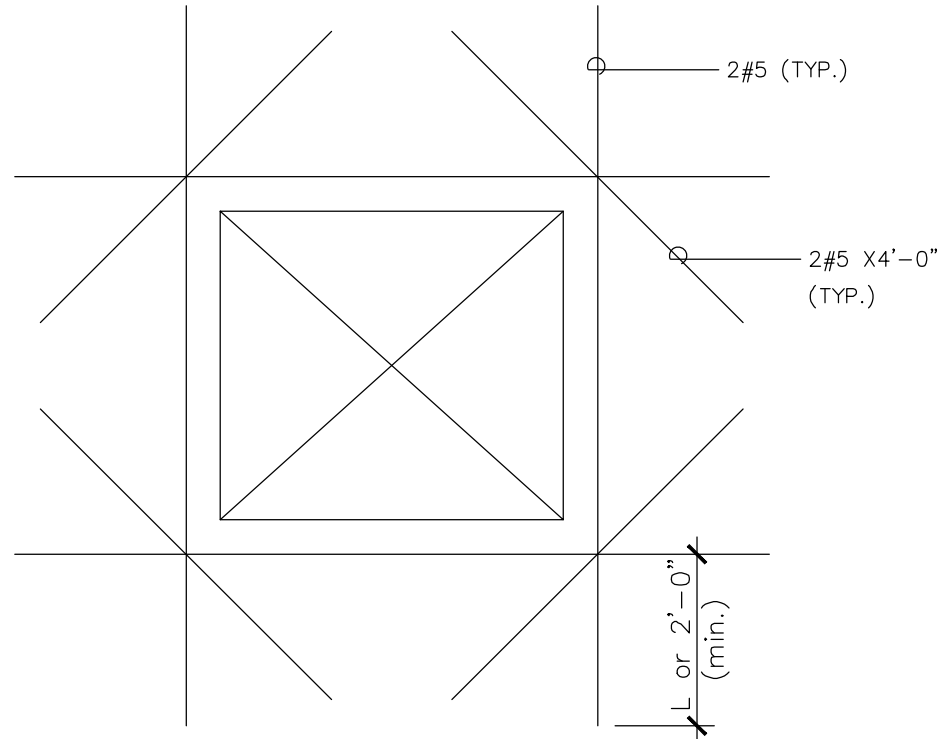
- INTEL SHALL EXTEND UNTIL IT BEARS ON 1/2 OF UNCUT CMU (MIN. 8").
- INTELS FOR OPENINGS LARGER THAN 6' SHALL BE SHORED.
- CMU CELL(S) ADJACENT TO OPENINGS SHALL BE FULLY GROUTED, AND REINFORCED.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE @ 8" IN 2 JOINTS ABOVE INTELS AND BELOW SILLS; ADDITIONAL REINFORCEMENT SHALL EXTEND 2' BEYOND OPENINGS.

(FOR DIMENSIONS REFER TO ARCH DWGS.)

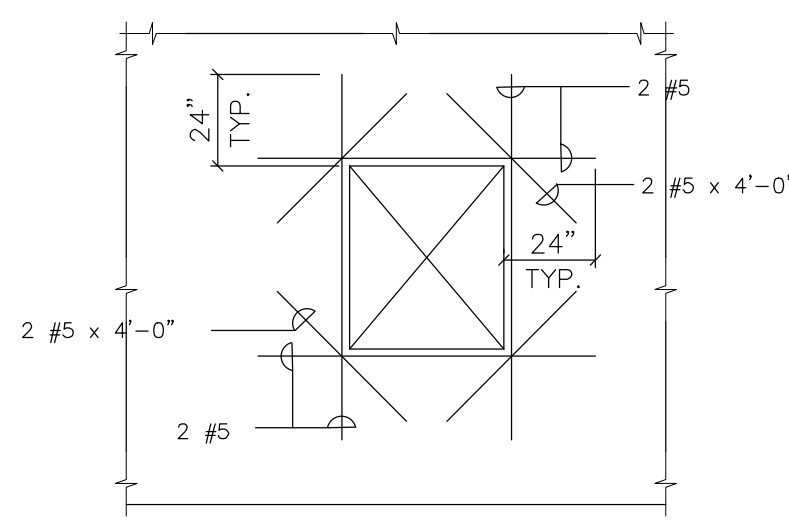


@ WINDOW

TYPICAL REINF. DETAIL @ CMU OPENINGS



@ DOOR

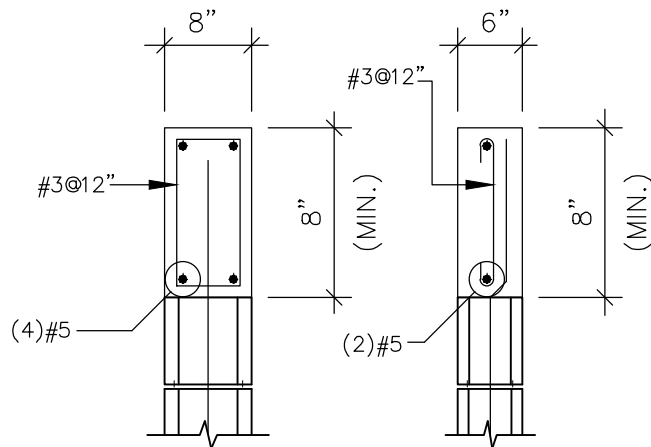


@ WINDOW

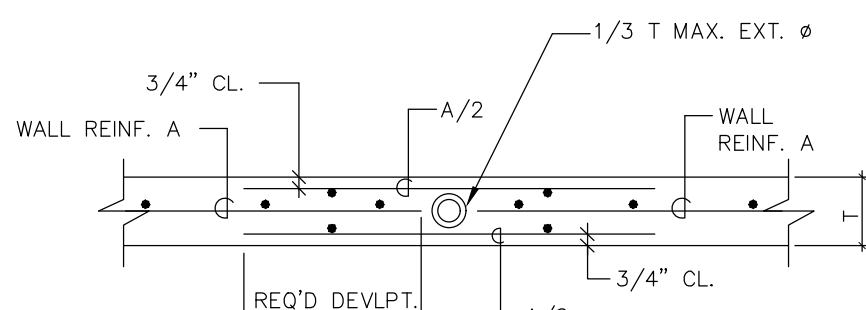
(FOR DIMENSIONS REFER TO ARCH DWGS.)

TYP. WALL OPENING REINF. DETAIL

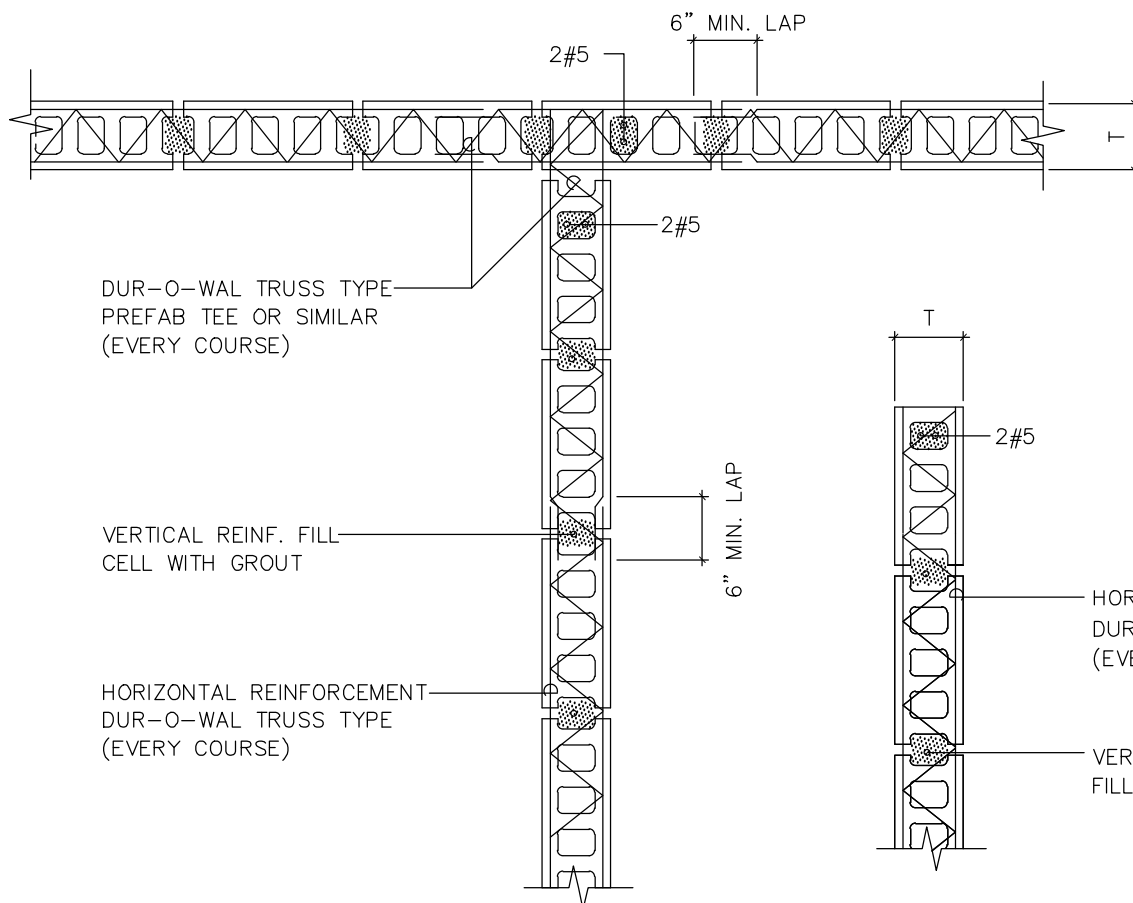
TYPICAL REINF. DETAIL @ CONC. OPENINGS



@ BOND BEAM



TYP. EMBEDDED CONDUIT DET.



AT INTERSECTION

AT END WALL

AT CORNER

TYPICAL CONC. BLOCK WALL REINFORCEMENT DETAILS

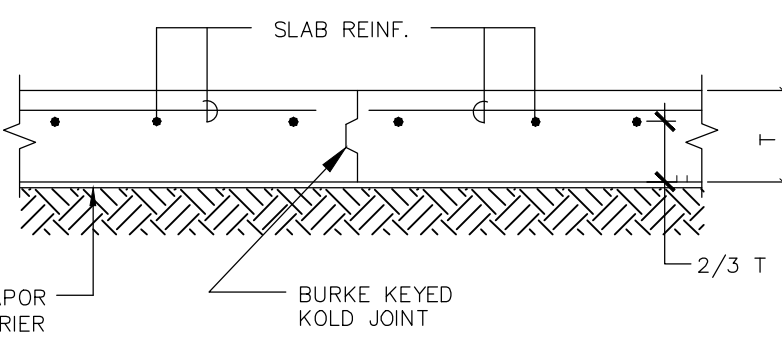
ACI 318-14 Class B required Lap splice Length

	f'c (psi)	No. 6 and smaller bars and deformed bars	No.7 and larger bars
Clear spacing of bars being developed or not less than 2 db clear cover not less than db, and beam stirrups or columns ties throughout. Id not less than code minimum or	3,000	58db	72db
	4,000	50db	61db
	5,000	45db	55db
	6,000	41db	51db
	8,000	36db	45db
	10,000	32db	39db
Clear spacing of bars being developed or spliced not less than 2 db and/or clear cover no less than db.	3,000	86db	107db
	4,000	75db	93db
	5,000	67db	84db
	6,000	60db	76db
	8,000	52db	65db
	10,000	47db	59db

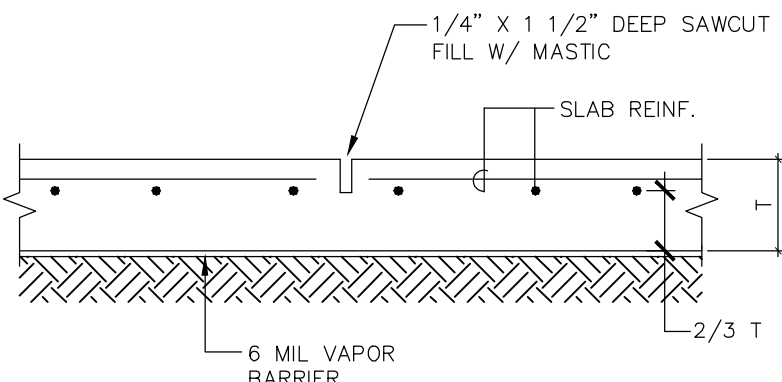
Note:

- All lap splices shall be considered case B unless otherwise noted.
- For class A lap splices divide the values given on table by 1.3.
- Rebar development length is equivalent to values in table divided by 1.3

STANDARD HOOK TENSION DEVELOPMENT LENGTH				
BAR SIZE		3,000	4,000	5,000
ENGLISH UNIT	METRIC UNIT			
#3	#10	8.2	7.1	6.4
#4	#13	11.0	9.5	8.5
#5	#16	13.7	11.9	10.6
#6	#19	16.4	14.2	12.7
#7	#22	19.2	16.6	14.8
#8	#25	21.9	19.0	17.0
#9	#29	24.7	21.4	19.1
#10	#32	27.8	24.1	21.6
#11	#36	30.9	26.8	23.9
#14	#43	37.1	32.1	28.7
#18	#57	49.4	42.8	38.3



SLAB CONSTRUCTION JOINT DETAIL



SAW-CUT CONTROL JOINT (S.C.J.)

STRUCTURAL CONCRETE BLOCK NOTES:

- THE DESIGN COMPRESSIVE STRENGTH OF ALL CMUS SHALL BE AT LEAST 1850 PSI.
- CMUS SHALL BE Laid IN FULL MORTAR BED AND IN A RUNNING BOND PATTERN.
- CELLS TO BE GROUTED SHALL ALIGN VERTICALLY AND PROVIDE MINIMUM UNOBSTRUCTED AREA OF 2" X 3".
- THE TOP OF WALLS SHALL BE BRACED OR ANCHORED TO THE FLOOR OR ROOF SLAB.
- VERTICAL JOINTS IN EXTERIOR MASONRY WALLS SHALL BE JOINED WITH MORTAR.
- UNLESS OTHERWISE INDICATED IN THE DRAWINGS ALL CMU WALLS SHALL BE REINFORCED AS FOLLOWS:
WALL THICKNESS 6" VERTICAL REINF. # 4 @ 12"

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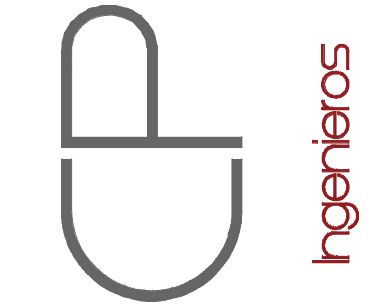
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TYPICAL STRUCTURAL DETAILS

PAGE

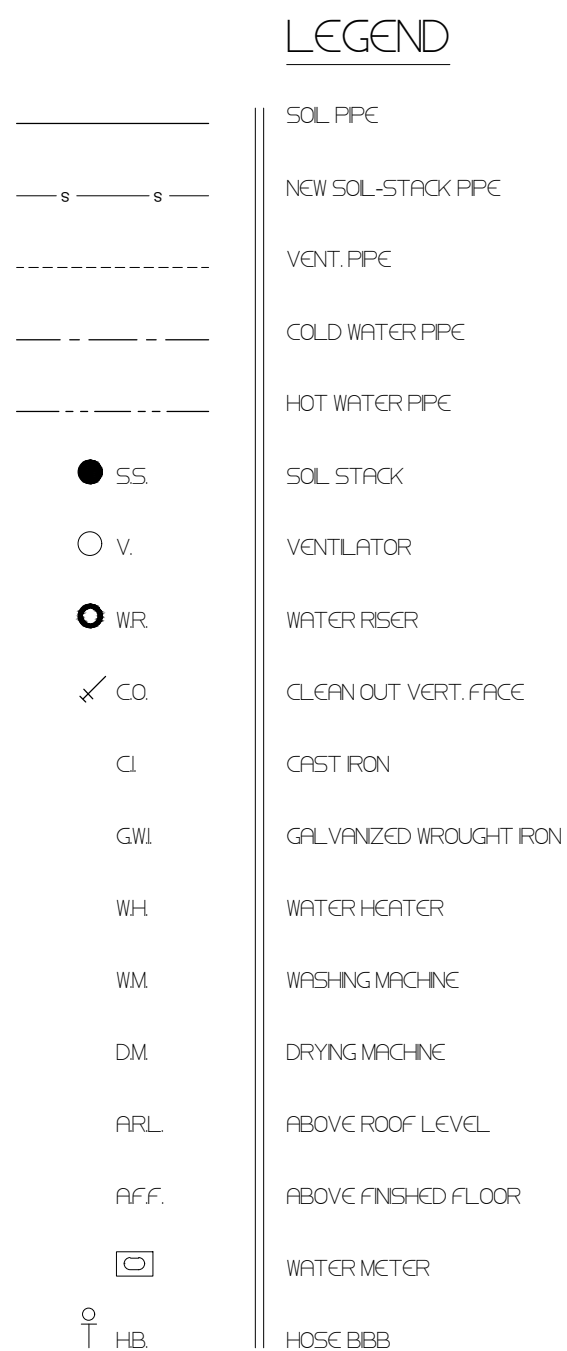
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1 OF 1

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PUMP SPECIFICATIONS SCHEDULE		PVC SDR 35	PVC SDR 40	PVC SDR 14	3/4" Ø CORRUGATE TYPE "A"	1/2" Ø CORRUGATE TYPE "L"
SERVICE	LOCATION					
SANITARY DRAINS	BRANCHES ABOVE GROUND		●			
	VERTICAL STACK		●			
	UNDERGROUND & OUTSIDE BLDG		●			
	UNDERGROUND & OUTSIDE BLDG		●			
VENTS	HORIZONTAL		●			
	VERTICAL		●			
STORMS DRAINS	ABOVE GROUND		●			
	UNDERGROUND BLDG	●				
WATER	UNDERGROUND OUTSIDE BLDG					●
	ABOVE GROUND					●
EX-HAUST VENT	UNDER GROUND		●			
	VERTICAL STACK		●			
AIR CONDITION	ABOVE GROUND					●
	VERTICAL STACK					●

ITEM	QTY.	DESCRIPTION	MANUFACT.	CATALOGNO.
P-1	VERIFIED IN-STORE	LAVATORY	KOHLER	KOHLER K-7228 / CORNERSTONE CR4028 2-BLAV W / 50/50 WASTE
P-2	VERIFIED IN-STORE	WATER CLOSET	STERLING	STERLING WINDMILL ONE HET-HIGH EFFICIENCY TOILET COLOR WHITE MODEL 404705
P-3	VERIFIED IN-STORE	SINK	DAYTON	KINGSFOR DOUBLE BOWL SINK K23822 / GLARY EVERYDAY LK2473CR 3-HOLE DECOR MOUNT KITCHEN FAUCET WITH SDE SPRAY
P-4	VERIFIED IN-STORE	SINK	MUSTEE	UTLITAL 24" X 20" - FAUCET K-85270-4-CP CORPUS
P-5	VERIFIED IN-STORE	PRESSURE BALANCING CYCLING INBALL VALVE	CORNERSTONE	PRESSURE BALANCING CYCLING INBALL VALVE MODEL 4532

FIXTURE	SYMBOLS	WASTE	VENTILATION	WATER	
				COLD	HOT
LAVATORY	P-1	3"	2"	3/4"	1/2"
WATER CLOSET	P-2	3"	2"	3/4"	
SNK	P-3	2"	1 1/2"	3/4"	1/2"
SNK	P-4	3"	1 1/2"	3/4"	1/2"

SOL. PIPE
NEW SOL.-STACK PIPE
VENT. PIPE
COLD WATER PIPE
HOT WATER PIPE
SOL. STACK
VENTILATOR
WATER RISER
CLEAN OUT VENT. FLACE
CAST IRON
GALVANIZED WROUGHT IRON
WATER HEATER
WASHING MACHINE
DRYING MACHINE
ABOVE ROOF LEVEL
ABOVE FINISHED FLOOR
WATER METER
HOSE BOB

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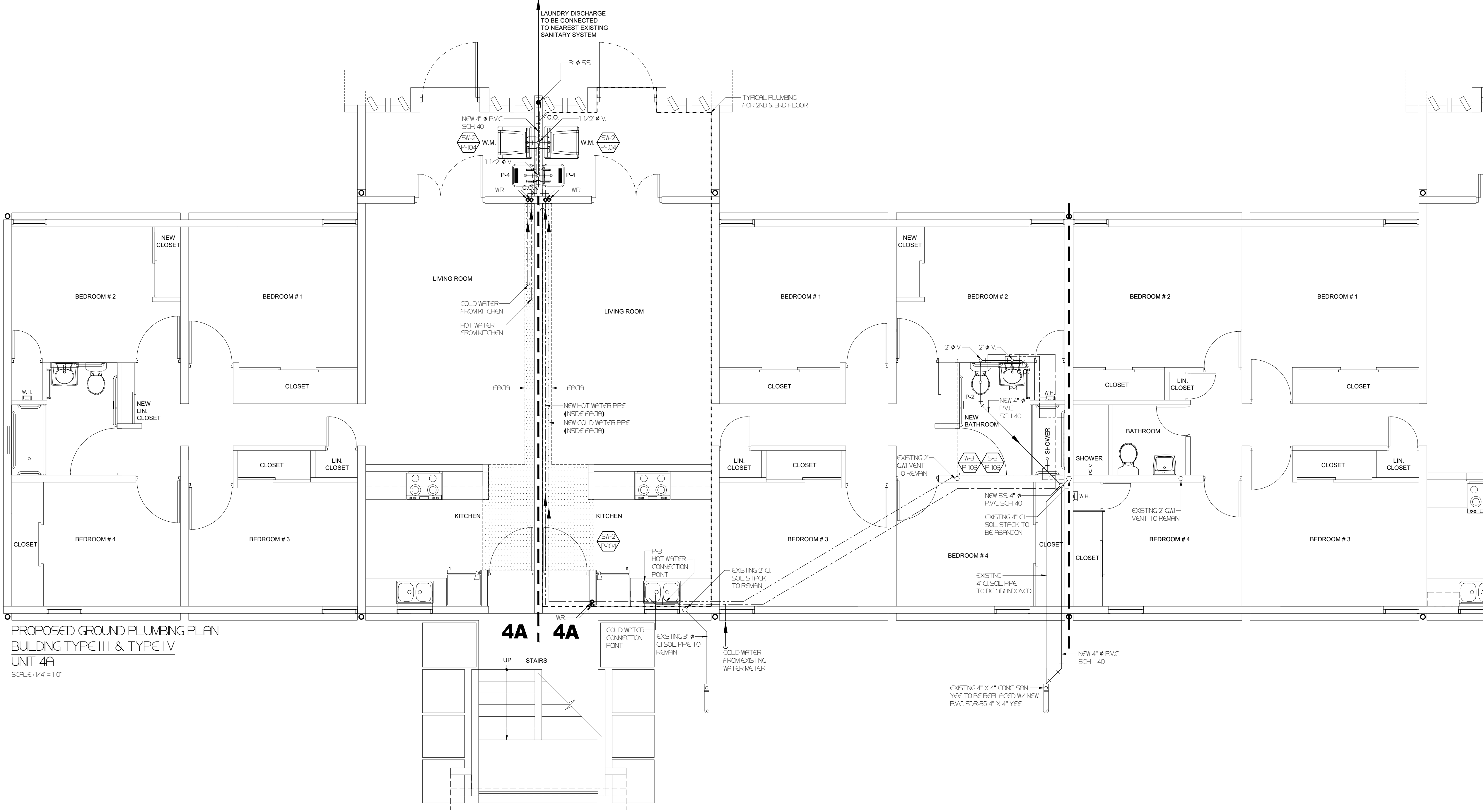
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CAMANO
architecture
CALLE COSTA 391
OFFICE 201
SAN JUAN PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com

[illegible]



PROPOSED GROUND PLUMBING PLAN
BUILDING TYPE III & TYPE IV
UNIT 4A
SCALE: 1/4" = 1'-0"

LEGEND

- SOL. PPE
- NEW SOL-STACK PPE
- VENT. PPE
- COLD WATER PPE
- HOT WATER PPE
- SOL. STACK
- VENTILATOR
- WATER RISER
- CLEAN OUT VERT. FACE
- CAST IRON
- GALV. WROUGHT IRON
- WATER HEATER
- WASHING MACHINE
- DRYING MACHINE
- ABOVE ROOF LEVEL
- ABOVE FINISHED FLOOR
- WATER METER
- HOSE BIBB

CLIENT
INTERLINK CONSTRUCTION LLC.
DESIGN
CARLOS M. PÉREZ RIVERA, PE
DRWN BY
CMPR
CHKD BY
CMPR
DATE
SEPTEMBER 30, 2021

REVISIONS

NO.	DESCRIPTION

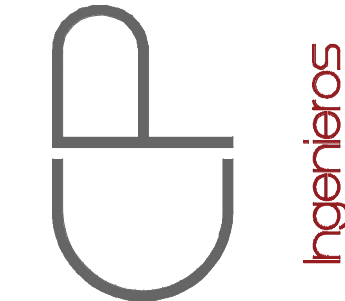
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CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438

cpingenieros@outlook.com



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PROJECT
MIRADOR LAS CASAS
FULL REHABILITATION
SANTURCE, PR

TITLE
PROPOSED GROUND PLUMBING
PLAN - BUILDINGS TYPE III & IV
UNIT 4A

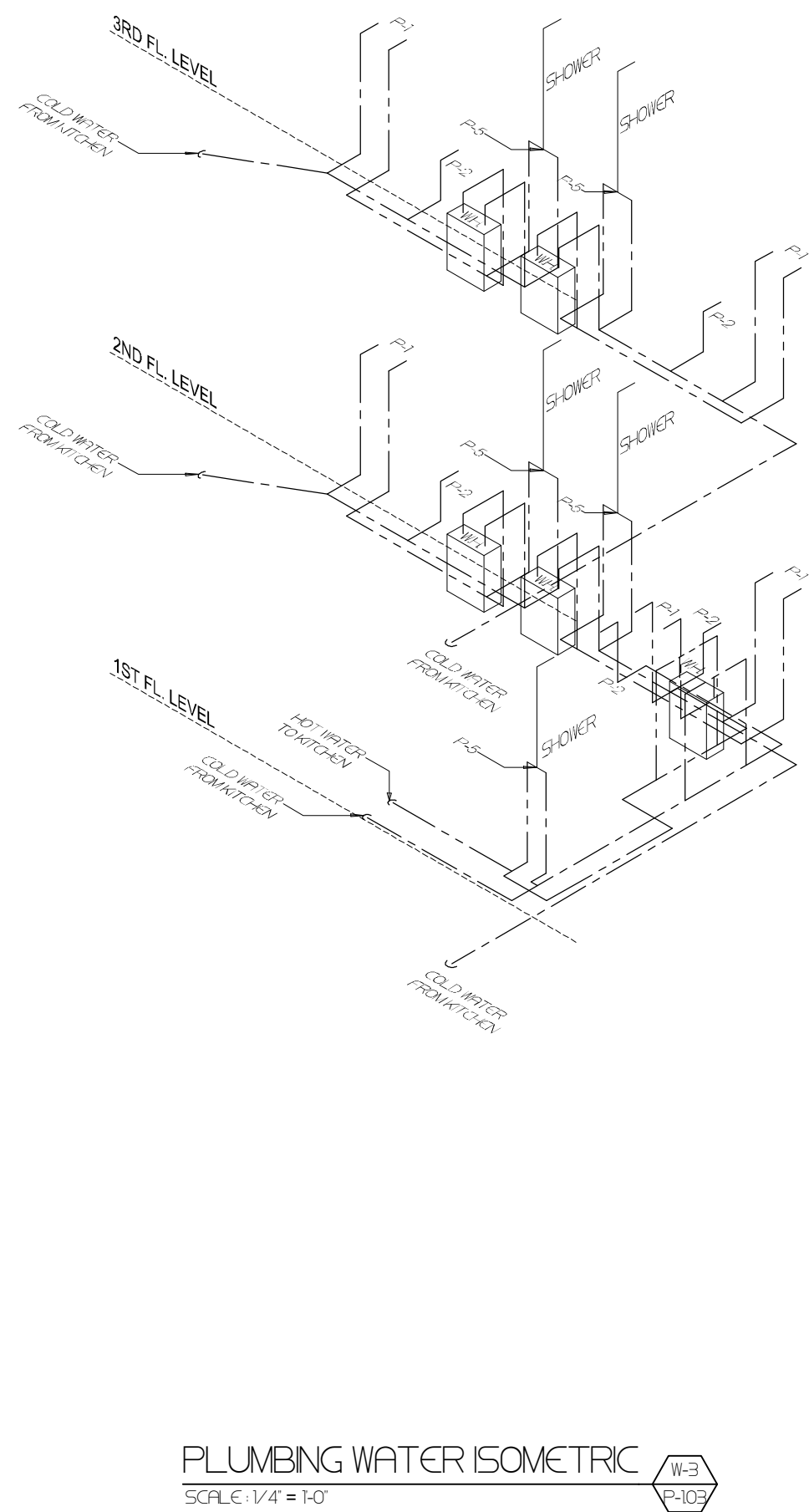
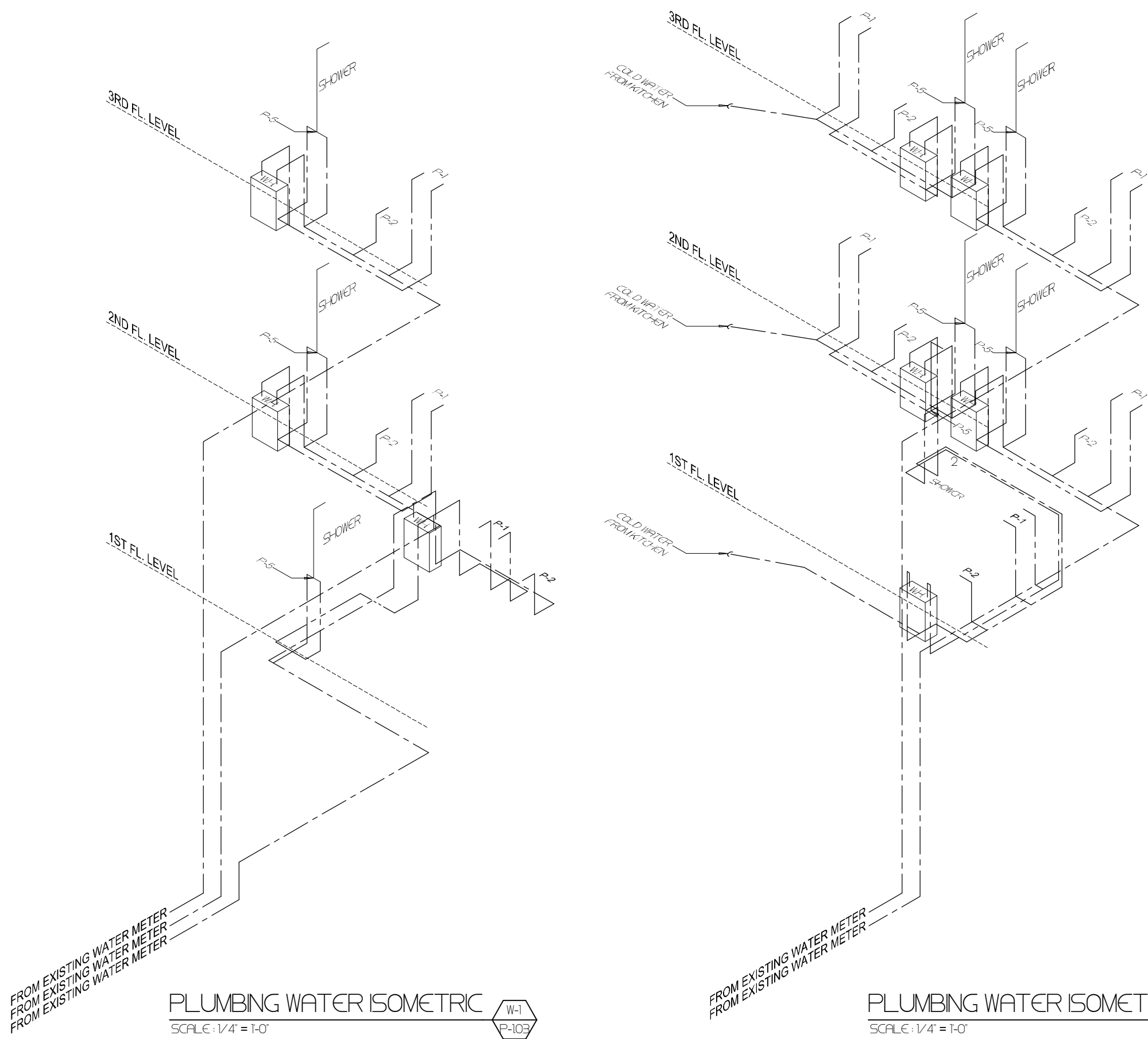
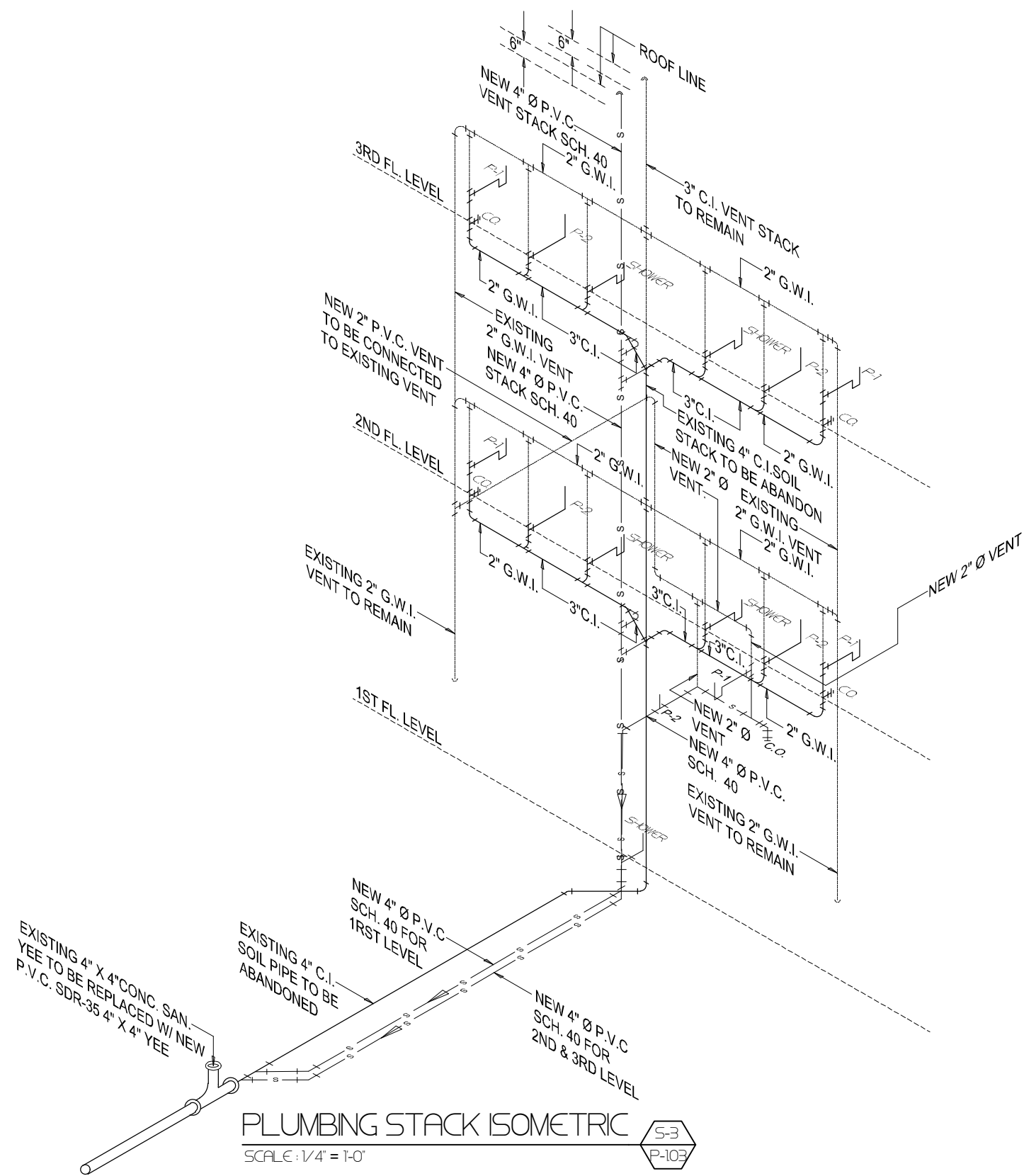
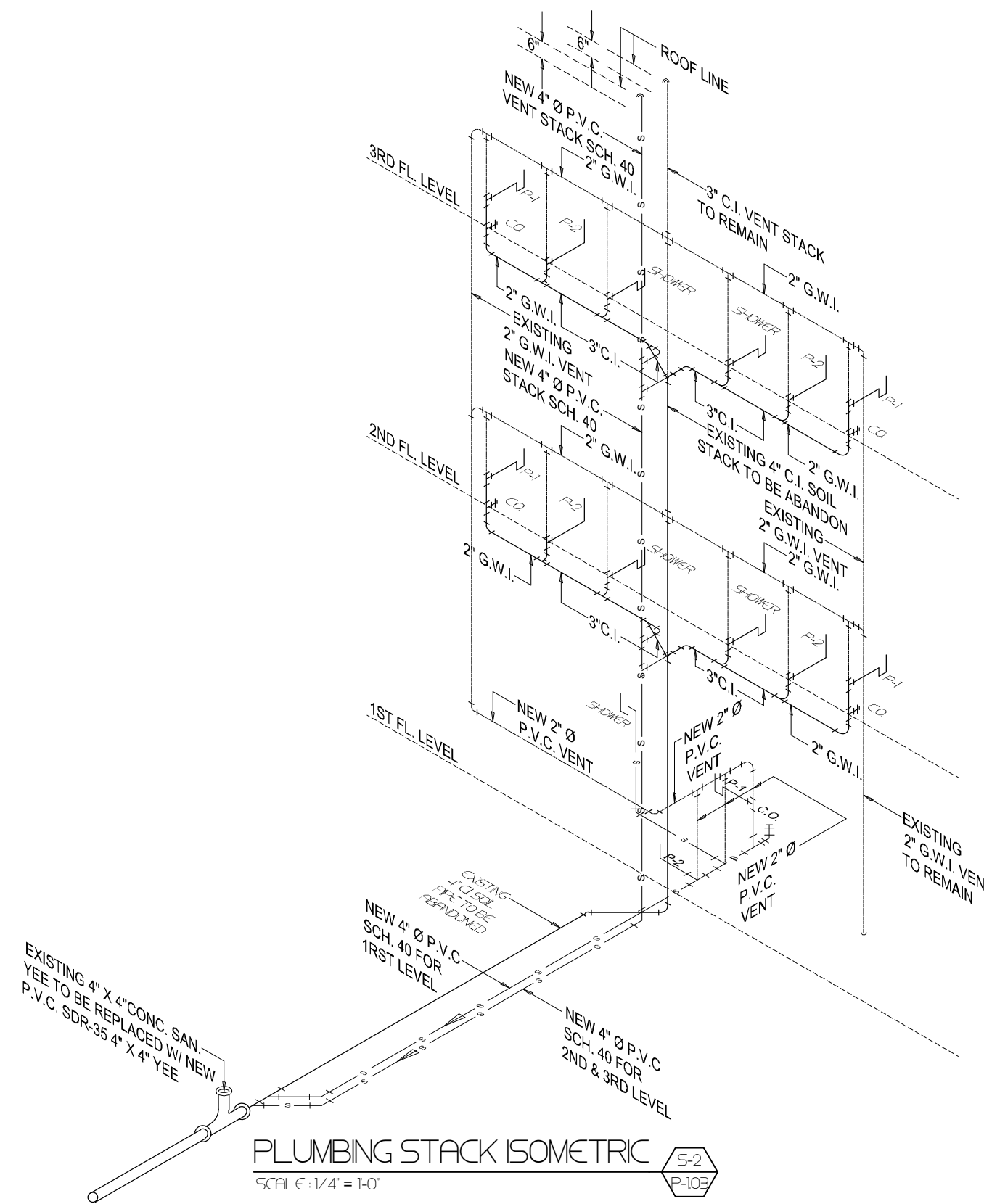
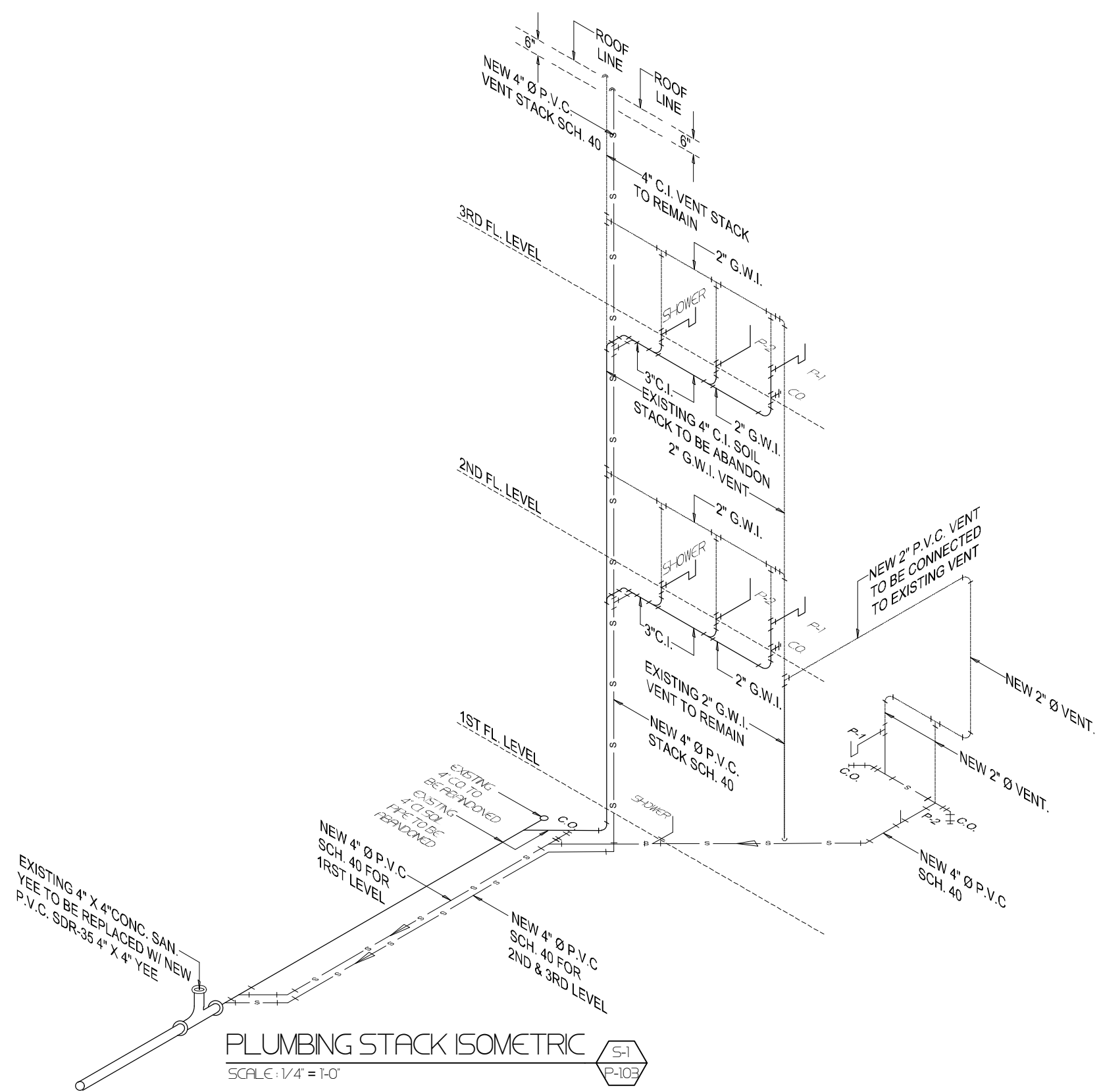
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CAMANO

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamanos@gmail.com



PLUMBING WATER ISOMETRIC
SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

ITEM	QTY.	DESCRIPTION	MANUFACT.	CATALOG NO.
P-1	VERIFIED IN SITE	LAVATORY	KOHLER	KOHLER K-1728 / CORNERSTONE CFA021 2-HLRY W/ 50/50 WASTE
P-2	VERIFIED IN SITE	WATER CLOSET	STERLING	STERLING WIND-UP FILL IN ONE PFT-HIGH EFFICIENCY TOILET COLOR WHITE / MODEL 404705
P-3	VERIFIED IN SITE	SINK	DAYTON	KINGSFORD DOUBLE BOWL SINK K23322 / ELKAY EVERYDAY LK2478ER 3-HOLE DECK MOUNT KITCHEN FAUCET WITH SIDE SPRAY
P-4	VERIFIED IN SITE	SINK	MUSTEE	UTLITUB 24" X 20" - FAUCET K-B270-4-CP CORRALAS
P-5	VERIFIED IN SITE	PRESSURE-BALANCING CYCLING IN-WALL VALVE	CORNERSTONE	PRESSURE-BALANCING CYCLING IN-WALL VALVE MODEL 4532

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VERIFIED
CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamanos@gmail.com

CLIENT
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DRAWN BY
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CHECKED BY
CMR
DATE
SEPTEMBER 30, 2021

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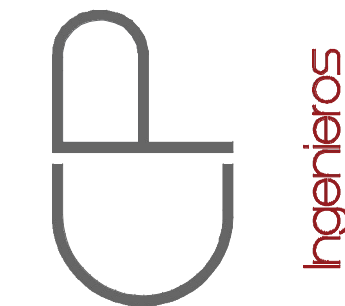
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CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
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Tel. 787-462-3438
cpingenieros@outlook.com



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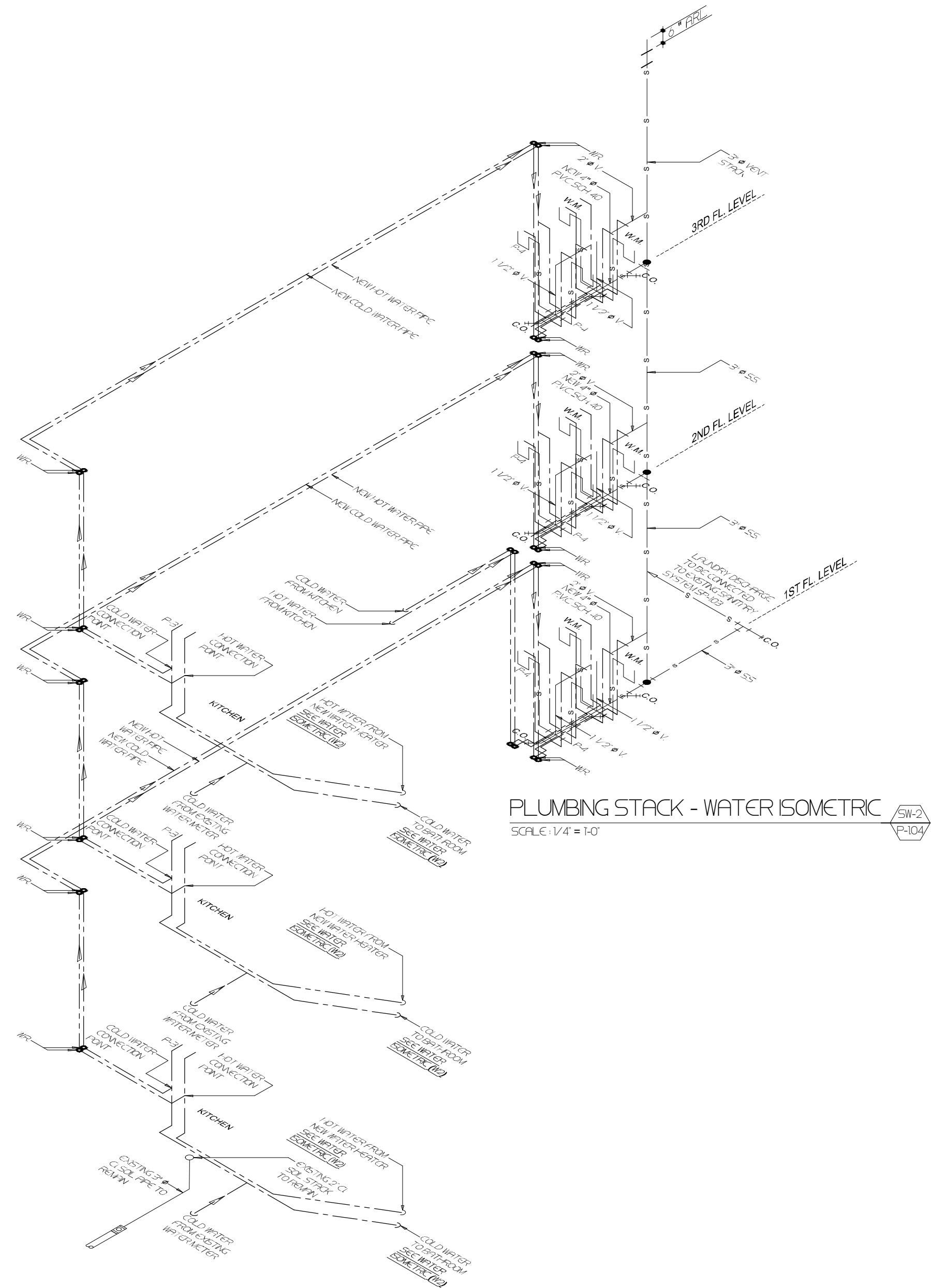
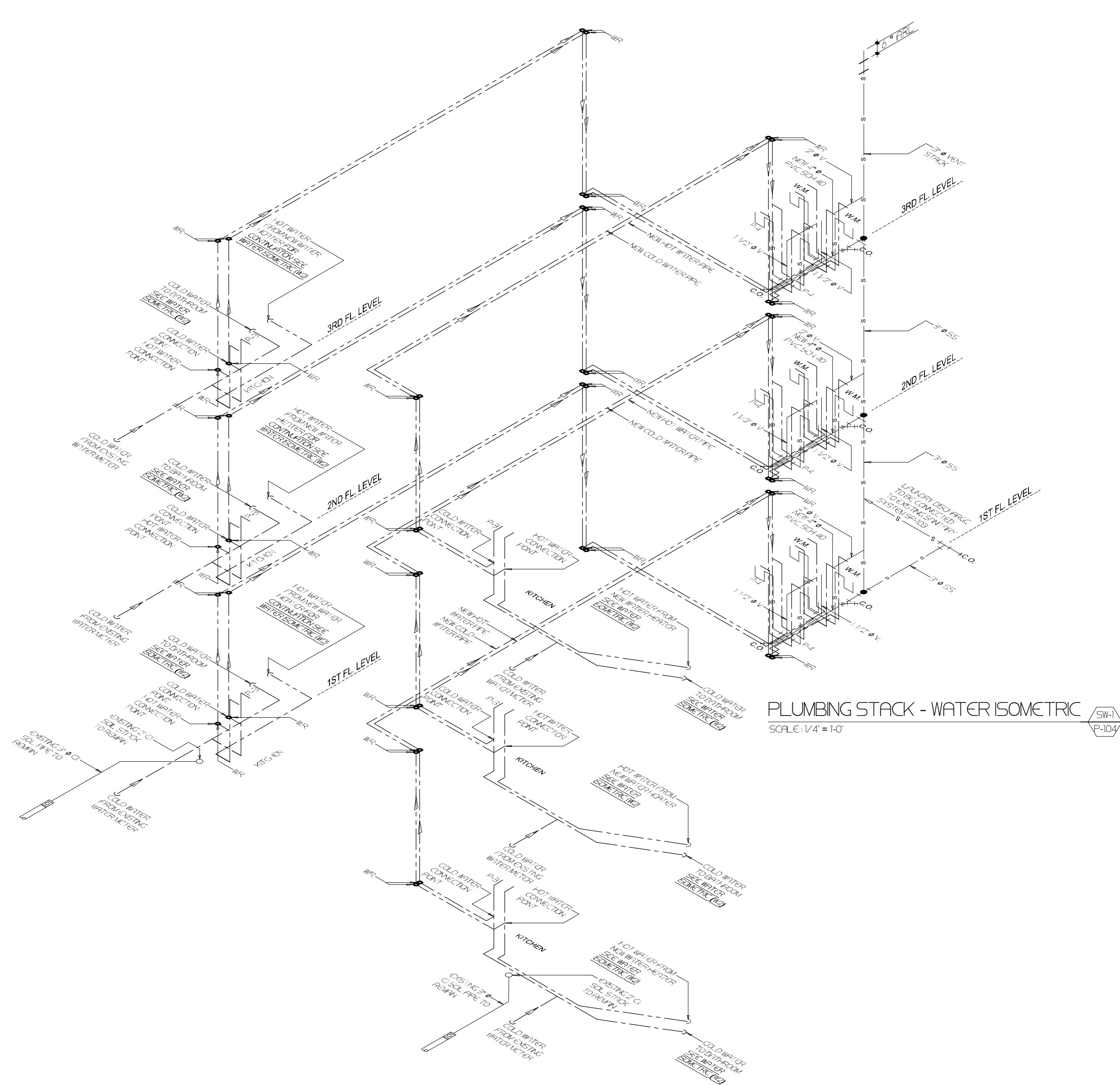
PROJECT
MIRADOR LAS CASAS
FULL REHABILITATION
SANTURCE, PR

TITLE
PLUMBING
STACK & WATER
ISOMETRIC

PAGE

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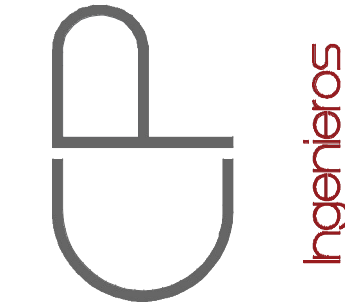
PROJECT
MIRADOR LAS CASAS
FULL REHABILITATION
SANTURCE, PR

TITLE
PLUMBING
STACK - WATER
ISOMETRIC

PAGE
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1 OF 1

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CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado
PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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CLIENT
INTERLINK CONSTRUCTION LLC.
DESIGN
CARLOS M PÉREZ RIVERA, PE
DRAWN BY
CMR
CHECKED BY
CMR
DATE
SEPTEMBER 30, 2021

Certification: Yo, Carlos M. Pérez Rivera, Ingeniero Licenciado, Núm. 10137, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los Reglamentos Conjuntos y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias Unidas Reguladoras o Comisiones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPR y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPR.