

# GENERAL STRUCTURAL NOTES

## GENERAL:

- A. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE, 2020 7TH EDITION, HVHZ, ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS, THE ACI 318-14 BUILDING CODE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.
- B. THESE DRAWINGS AND SPECIFICATIONS COMPLY, TO THE BEST OF MY KNOWLEDGE WITH THE 2020 FLORIDA BUILDING CODE, 7TH EDITION, HVHZ.
- C. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION BEFORE COMMENCING ANY WORK. ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP WORKING DRAWINGS FOR REVIEW.
- D. THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES, OMISSIONS OR VARIATIONS FOUND ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PHASE SHALL BE IMMEDIATELY COMMUNICATED TO ARCHITECT/ ENGINEER.
- E. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.
- F. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH THE REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATION SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.
- G. TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.
- H. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
- I. BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEM UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCUR.
- J. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.
- K. STRUCTURAL NOTES SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- L. GENERAL CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES AND CONDUITS FROM DAMAGE. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE. M. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, MEANS AND METHODS OF CONSTRUCTION AND CONSTRUCTION PROCEDURES. N. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS NOTED. IF DIMENSIONS ARE MISSING CONSULT ARCHITECT/ENGINEER FOR ADVISE.
- M. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE A/E IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- N. WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS, OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS AN IN-PLACE MATERIAL, CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO A/E BEFORE PROCEEDING WITH THE WORK.
- O. WHERE A LINE OF STRUCTURE, OPENING LOCATION, OR DIMENSION IS CRITICAL AND BASED ON THE REQUIREMENTS OF ANOTHER TRADE OR SUBCONTRACTOR, THAT SUBCONTRACTOR SHALL SUBMIT A SHOP DRAWING WITH THE REQUIRED DIMENSIONAL INFORMATION UPON WHICH THE CONTRACTOR SHALL BASE THE LAYOUT AND CONSTRUCTION. THIS PROCEDURE IS MANDATORY FOR CURTAIN WALL SYSTEMS, ARCHITECTURAL PRECAST SYSTEMS AND ALL MECHANICAL AND ELECTRICAL OPENINGS.
- P. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE STEPPED FOOTINGS, DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS SHALL BE COMMUNICATED TO THE A/E BEFORE PROCEEDING WITH THE WORK.

## WIND ANALYSIS DESIGN PARAMETERS:

- A. WIND DESIGN HAS BEEN DONE IN ACCORDANCE WITH ASCE 7-16 AND 2020 FBC (7TH EDITION), HVHZ.
- B. EXPOSURE "D"
- C. RISK CATEGORY: II
- D. INTERNAL PRESSURE COEFFICIENT, C<sub>pi</sub> = -0.18.
- E. ULTIMATE WIND VELOCITY, V = 175 MPH

## SCOPE OF WORK:

EXISTING PORTE COCHERE WAS FOUND NOT TO BE IN GOOD STRUCTURAL CONDITION. SLAB TO BE DEMOLISHED AND REBUILT AS SHOWN ON THE FOLLOWING DRAWING

## CONCRETE:

- A. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
- B. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:

EXIST. CONCRETE: 2 KSI  
NEW CONCRETE: 8 KSI

STRUCTURAL SLABS AND BEAMS ----- 6000 PSI MIN. SEE PLANS  
COLUMNS ----- 6000 PSI, SEE COLUMN SCHEDULE  
ALL OTHER CONCRETE ----- 3000 PSI

- C. FORMWORK SHALL COMPLY WITH ACI 347R-14, "RECOMMENDED PRACTICE FOR CONCRETE WORK."
- D. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK. SUBMIT STATISTICAL DATA FOR EACH CLASS OF CONCRETE.
- E. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
- F. THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: SIX CYLINDER TESTS FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY. ONE CYLINDER SHALL BE TESTED AT 3 DAYS AND 7 DAYS, THREE AT 28 DAYS, AND ONE RESERVED TO BE TESTED AT 56 DAYS IF REQUIRED. FOLLOW ASTM STANDARDS FOR SAMPLING AND TESTING. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS CAST. SLUMP TEST SHALL CONFORM WITH ASTM C 143. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
- G. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301-16: SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- H. CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE LOCATED AT 1/3 OF THE SPAN WITH REINFORCING CONTINUOUS ACROSS THE JOINT. PROVIDE A CONTINUOUS 2 X 4 SHEAR KEY AT SLABS. AT BEAMS PROVIDE A 1 1/2" DEEP SHEAR KEY WITH A WIDTH 8" SMALLER THAN THE BEAM WIDTH AND A DEPTH 8" SMALLER THAN THE BEAM DEPTH. LOCATIONS SHALL BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE POUR.
- I. CONCRETE USED AT BALCONIES AND TERRACES SHALL HAVE A WATER/ CEMENT RATIO OF 0.40.
- K. MAXIMUM WATER/CEMENT RATIO FOR CONCRETE CONTAINING A SUPERPLASTICIZER ADMIXTURE SHALL BE 0.40. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 6" +/- 1"
- L. MINIMUM CONCRETE COVER FOR REINFORCEMENT:
  - I. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
  - II. CONCRETE EXPOSED TO EARTH OR WEATHER #6 BARS AND LARGER.....2" #5 BARS AND SMALLER.....1 1/2"
  - III. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: SLABS AND WALLS.....3/4" BEAMS AND COLUMNS.....1 1/2" TO TIES OR STIRRUPS

## CONCRETE MASONRY WORK:

- A. CONCRETE MASONRY WALLS NOTED AS LOAD BEARING WALLS, SHALL BE IN PLACE BEFORE THE SLABS AND BEAMS SUPPORTED BY THEM ARE POURED AS WELL AS THE CONCRETE TIE COLUMNS FRAMING THEM.
- B. CONCRETE MASONRY WALLS NOTED AS NON-LOAD BEARING WALLS SHALL BE PLACED AFTER CONCRETE FRAME SUPPORTING THEM ARE 28 DAYS OLD AND ALL SHORING AND RE-SHORING IS COMPLETELY REMOVED FROM BELOW AND ABOVE. HOLD CLEAR OF CONCRETE ABOVE UNTIL ANTICIPATED DEAD LOAD DEFLECTION OF CONCRETE SLAB OR BEAM ABOVE HAS OCCURRED. FILL JOINT WITH MORTAR AND SEAL AS REQUIRED BY ARCHITECTURAL DRAWINGS TO PREVENT WATER INTRUSION.
- C. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C 90, "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS", WITH A NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS OF 1900 PSI.
- D. MORTAR SHALL CONFORM TO ASTM C 270, TYPE "M", WITH A MINIMUM AVERAGE STRENGTH OF 2500 PSI.
- E. CONCRETE MASONRY STRENGTH, f<sub>m</sub>, SHALL BE A MINIMUM OF 1500 PSI.
- F. VERTICAL REINFORCING IN CMU CELLS SHALL BE SPLICED WITH 48 BAR DIA- METER LAP SPLICES. PROVIDE CLEAN OUT HOLES AT BASE OF FILLED CELLS FOR LAP INSPECTION AND VERIFYING THAT THE CELLS HAVE BEEN FILLED SOLID WITH GROUT.
- G. FILLED CELLS SHALL BE FILLED WITH 3000 PSI GROUT AS PER ACI 530-11 AND ACI 530.1-13. FILLING OF CELLS SHALL BE DONE IN FOUR FOOT LIFTS WITH A MAXIMUM POUR OF 12 FEET. USE MECHANICAL VIBRATION TO ACHIEVE GROUT-FILLED SOLID CELLS. GROUT SHALL CONFORM TO ASTM C476. SLUMP SHALL BE BETWEEN 8" AND 11".
- H. ALL CMU WALLS SHALL BE HORIZONTALLY REINFORCED WITH STANDARD NO. 9 LADDER-TYPE GALVANIZED STEEL REINFORCING EVERY SECOND COURSE. EXTEND REINFORCING A MINIMUM OF 4 INCHES INTO TIE COLUMNS.
  - I. PROVIDE GALVANIZED STEEL DOVETAIL ANCHORS EVERY OTHER COURSE CONNECTING NON LOAD-BEARING WALLS TO CONCRETE COLUMNS AND SHEAR WALLS.
  - J. REINFORCING BARS IN GROUTED CELLS SHALL BE SECURED IN PLACE AT BASE OF BAR AND ABOVE BEFORE GROUTING OF CELL, WITH GALVANIZED POSITIONERS.
  - K. REINFORCING BARS BE SHALL CENTERED IN THE BLOCK CELL. DOWELS NOT LINED UP WITH THE BLOCK CELL SHALL NOT BE SLOPED MORE THAN 1 IN 6. HORIZONTAL DISTANCE BETWEEN DOWEL AND REINFORCING BAR MAY BE UP TO 8"(ONE BLOCK CELL APART)
  - L. ANCHOR BOLTS SHALL BE EMBEDDED IN WALLS IN GROUTED CELLS.
  - M. GROUTED CELLS WHERE WEDGE ANCHORS ARE TO BE INSTALLED SHALL HAVE THE BLOCK SHELL REMOVED SO THAT WEDGE ANCHOR IS EMBEDDED IN SOLID CONCRETE GROUT. FILL ONE COURSE BELOW AND ABOVE ANCHOR LOCATION.
  - N. ALL CONCRETE MASONRY WORK HAS BEEN DESIGNED AND DETAILED ASSUMING CONCRETE MASONRY WORK WILL BE COMPLETELY INSPECTED BY SPECIAL OR THRESHOLD INSPECTORS.
  - O. REINFORCING BARS SHALL BE LOCATED AS INDICATED IN PLAN OR CALLED OUT BY NOTES IN PLANS. WHERE PLANS AND NOTES DISAGREE CONSULT ENGINEER OF RECORD FOR CLARIFICATION.
  - P. LAY MASONRY UNITS IN RUNNING BOND.
  - Q. PROVIDE 30 LBS. FELT PAPER TO ISOLATE WOOD FROM MASONRY WALLS. USE PRESSURE TREATED WOOD FOR LEDGERS IN CONTACT WITH MASONRY WALL.

## DEMOLITION:

### SUBMITTALS:

- A. SUBMIT SCHEDULE INDICATING PROPOSED SEQUENCE OF OPERATION FOR SELECTIVE DEMOLITION WORK TO OWNER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. INCLUDE METHOD OF DEMOLITION AND PLAN FOR REMODELING WORK, COORDINATION FOR SHUT-OFF, COPPING, CONTINUATION OF UTILITY SERVICES AS REQUIRED, TOGETHER WITH DETAILS FOR DUST AND NOISE CONTROL PROTECTION.
- B. CERTIFICATION: SUBMIT COPY OF DEMOLITION FIRM CURRENT LICENSES.
- C. COORDINATE WITH OWNER'S CONTINUING OCCUPANCY OF PORTIONS OF EXISTING BUILDING.

### PROJECT RECORD DOCUMENTS

- A. ACCURATELY RECORD ACTUAL LOCATIONS OF CAPPED UTILITIES, SUBSURFACE OBSTRUCTIONS, AND UNANTICIPATED STRUCTURAL, MECHANICAL AND ELECTRICAL ELEMENTS UNCOVERED DURING DEMOLITION.

### QUALITY ASSURANCE

- A. ORGANIZE AND PERFORM DEMOLITION WORK TO AVOID DAMAGE TO CONSTRUCTION INTENDED TO REMAIN.
- B. DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS GOVERNING THESE OPERATIONS. FEES ARE PAID BY THE CONTRACTOR.
- C. CONDUCT DEMOLITION AND REMOVAL OPERATIONS IN AN EXPEDIENT MANNER, WITH PRECAUTIONS TAKEN TO PREVENT DEMOLITION SITE FROM BEING AN "ATTRACTIVE NUISANCE."
- D. NOTIFY THE OWNER AND A/E OF ANY CONDITIONS CAPABLE OF AFFECTING THE SAFETY OF OCCUPANTS OF ADJACENT BUILDINGS, THE NORMAL USE OF THESE FACILITIES, OR THE PHYSICAL CONDITION OF THE STRUCTURES.
  - IN CASE OF ACCIDENTAL DISRUPTION OF UTILITIES OR THE DISCOVERY OF PREVIOUSLY UNKNOWN UTILITIES, STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND A/E.
  - DO NOT CONTINUE WORK UNTIL OWNER, A/E AND CONTRACTOR AGREE ON A PLAN TO CORRECT THE SITUATION OR IDENTIFY UTILITY SERVICE LINE.

### REGULATORY REQUIREMENTS

- A. CONFORM TO FLORIDA BUILDING CODE 2014 FIFTH EDITION WITH LATEST REVISIONS, FOR DEMOLITION WORK. SAFETY OF STRUCTURES, DUST CONTROL AND SAFEGUARDS REQUIRED DURING CONSTRUCTION.
- B. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
- C. DO NOT CLOSE OR OBSTRUCT EGRESS WIDTH TO EXISTS.
- D. DO NOT DISABLE OR DISRUPT BUILDING FIRE OR LIFE SAFETY SYSTEMS WITHOUT THREE (3) DAY PRIOR WRITTEN NOTICE TO THE OWNER.

### JOB CONDITIONS

- A. OWNER WILL BE CONTINUOUSLY OCCUPYING AREAS OF BUILDING AND SITE IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE DEMOLITION. CONDUCT DEMOLITION WORK IN MANNER THAT WILL MINIMIZE DISRUPTION OF OWNER'S NORMAL OPERATIONS. PROVIDE MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE TO OWNER OF DEMOLITION ACTIVITIES, WHICH WILL SEVERELY IMPACT OWNER'S NORMAL OPERATIONS.
- B. EXISTING WORK NOT SPECIFIED FOR REMOVAL THAT IS TEMPORARILY REMOVED, DAMAGED EXPOSED OR IN ANY WAY DISTURBED OR ALTERED BY REMOVAL WORK SHALL BE REPAIRED, PATCHED OR REPLACED TO THE OWNER AND A/E SATISFACTION AT NO ADDITIONAL COST TO THE BOARD.
- C. PROVIDE BARRIERS AND WARNING DEVICES TO PROTECT THE PUBLIC AND USERS OF ADJACENT FACILITIES.

### PREPARATION

- A. WHERE SELECTIVE DEMOLITION WHICH WILL CREATE EXCESSIVE DUST OCCURS IMMEDIATELY ADJACENT TO OR WITHIN OCCUPIED PORTIONS OF BUILDING, CONSTRUCT DUST-PROOF PARTITIONS OR BARRIERS TO MITIGATE SPREAD OF AIRBORNE DUST OR DEBRIS.
- B. PROVIDE WEATHERPROOF CLOSURES FOR EXTERIOR OPENINGS RESULTING FROM SELECTIVE DEMOLITION WORK.
- C. IDENTIFY STUB OFF AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN. REMAINING UTILITIES SHALL BE KEPT ACTIVE

### DEMOLITION

- A. DISCONNECT, REMOVE, CAP AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
- B. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND ALL ITEMS TO REMAIN.
- C. PROMPTLY REMOVE DEBRIS TO AVOID IMPOSING EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS OR FRAMING.
- D. IF UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS WHICH CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED INVESTIGATE MEASURE BOTH NATURE EXTENT OF THE CONFLICT. SUBMIT REPORT TO OWNER IN WRITTEN ACCURATE DETAIL.

### DISPOSAL OF DEMOLISHED MATERIALS

- A. REMOVE DEBRIS, RUBBISH OTHER MATERIALS RESULTING FROM SELECTIVE DEMOLITION OPERATIONS FROM BUILDING SITE. LEGALLY TRANSPORT AND DISPOSE OF MATERIALS OFF SITE ON A REGULAR BASIS.
- B. ACCUMULATION OF DEBRIS ON THE SITE WILL NOT BE ALLOWED.
- C. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS LAWS, ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OF ANY ENVIRONMENTAL POLLUTION.
- D. BURNING OF REMOVED MATERIALS WILL NOT BE PERMITTED ON PROJECT SITE.

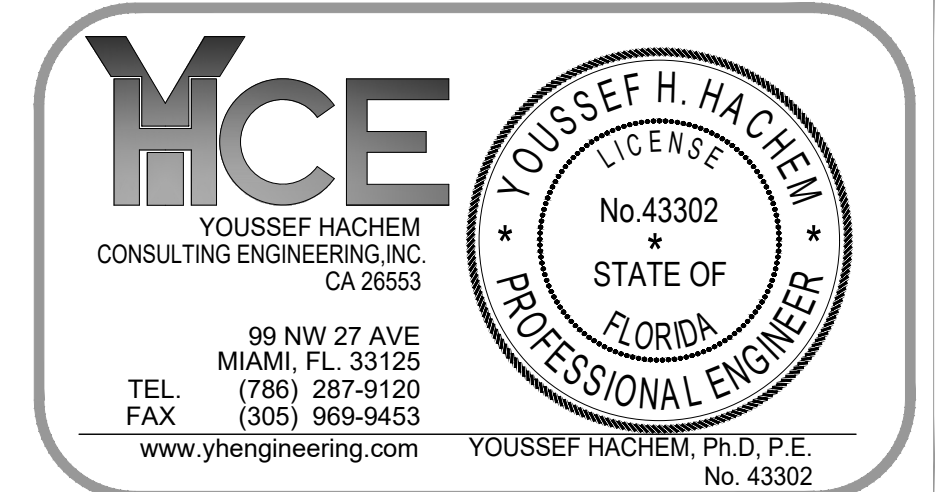
### REPAIR

- A. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN DAMAGED STRUCTURES, SURFACES TO REMAIN TO CONDITIONS EXISTING PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK, TO MATCH EXISTING.

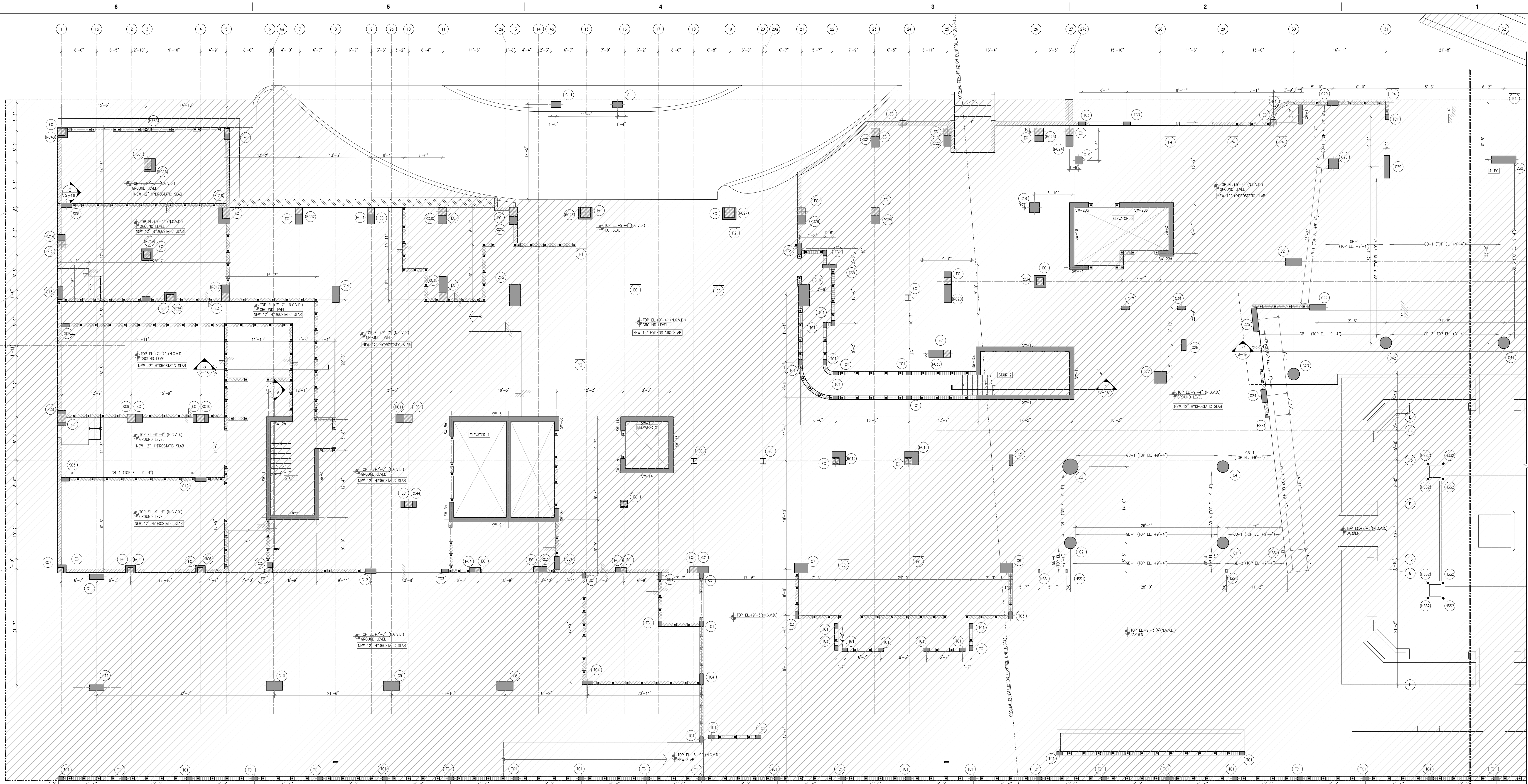
### CLEAN UP

- A. UPON COMPLETION OF SELECTIVE DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT, DEMOLISHED MATERIALS FROM SITE. REMOVE PROTECTIONS, LEAVE ROOF AREAS BROOM CLEAN.

STRUCTURAL DRAWING INDEX	
SHEET #	SHEET TITLE
S01	GENERAL NOTES & DRAWINGS INDEX
SD01	GROUND FLOOR DEMOLITION PLAN
SD02	SECOND FLOOR DEMOLITION PLAN
S02	GROUND FLOOR FRAMING PLAN
S03	SECOND FLOOR FRAMING PLAN



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**GROUND LEVEL (WEST) PROPOSED FRAMING PLAN**  
1/8"=1'-0"

**LEGEND**

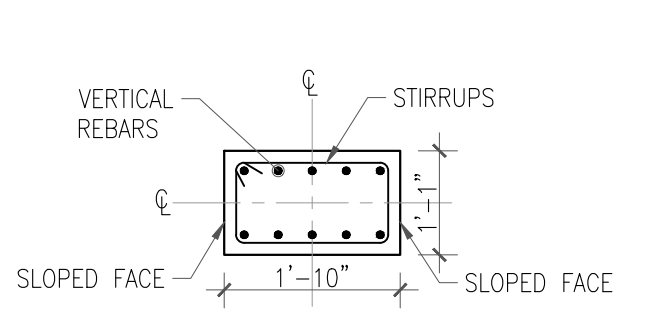
- DENOTES A CONCRETE COLUMN OR SHEAR WALL, STARTING OR CONTINUE A THIS LEVEL
- DENOTES A 8" LOAD-BEARING CONC. BLOCK WALL
- ▨ DENOTES AN EXIST. WALL TO REMAIN
- DENOTES A CONCRETE BEAM
- ▨ DENOTES AREA IN OTHER PERMIT
- XX DENOTES A COLUMN BELOW THIS LEVEL
- EC DENOTES AN EXIST. COLUMN LABEL

**NOTES:**

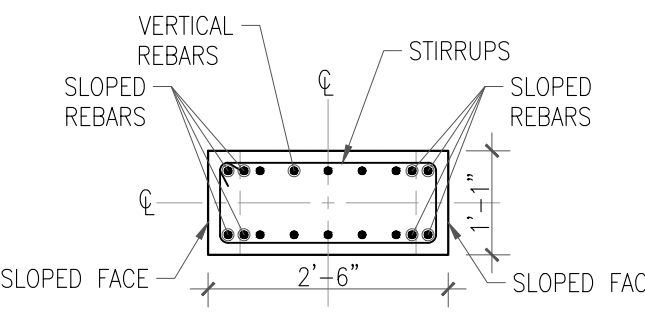
- 1-DIMENSIONS SHOWN SHALL BE FIELD-VERIFIED. ANY DISCREPANCIES SHALL BE NOTED AND THE ENGINEER OF RECORD NOTIFIED BEFORE CONTINUING WITH THE WORK.
- 2-TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES.

**COLUMN SCHEDULE**

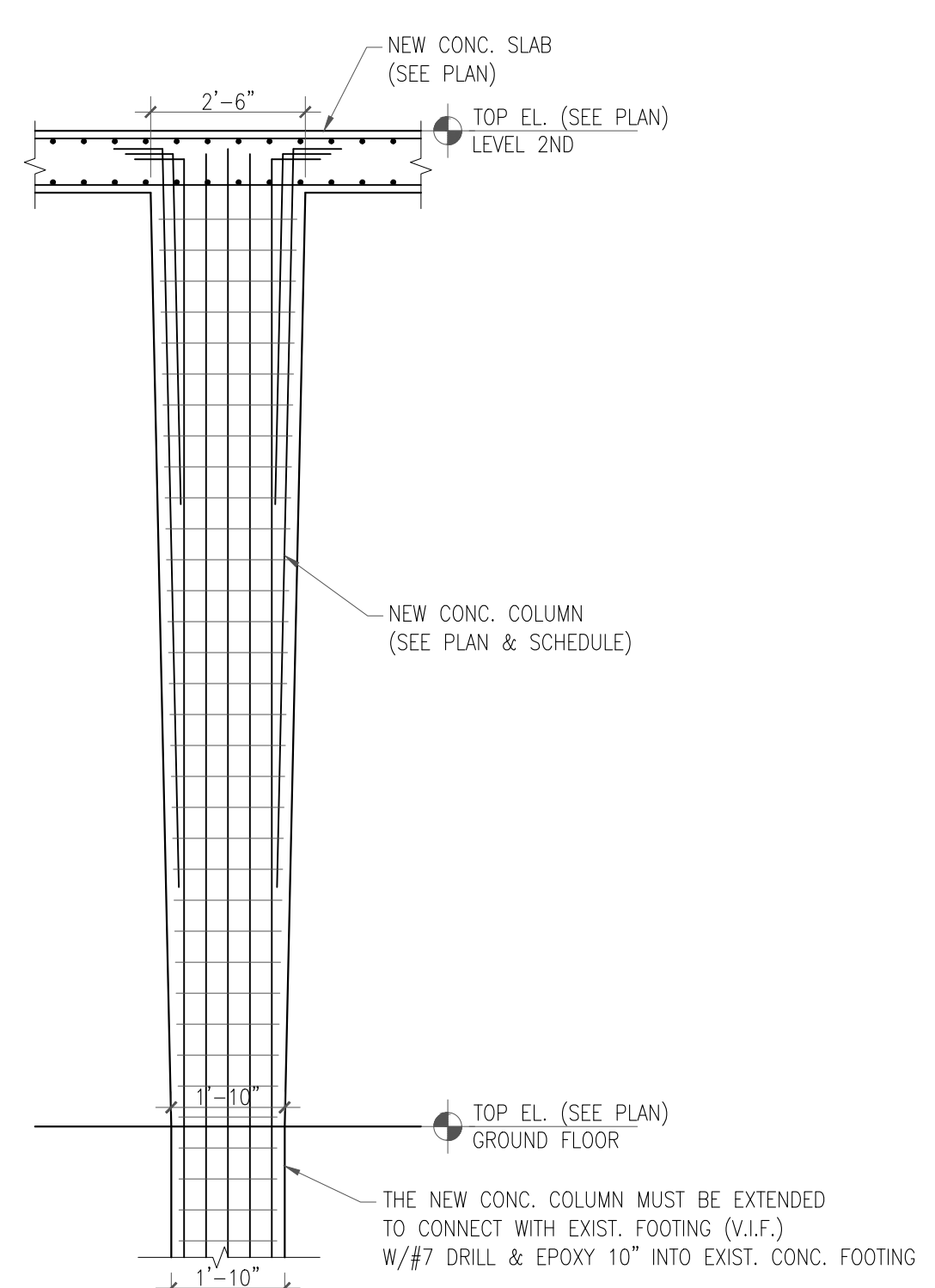
MARK	SIZE	REINFORCEMENT		REMARKS
		VERTICAL	TIES	
TC1	VARIABLE (SEE DETAILS)	18#7 (SEE DETAIL)	#3 □ 06" O.C.	



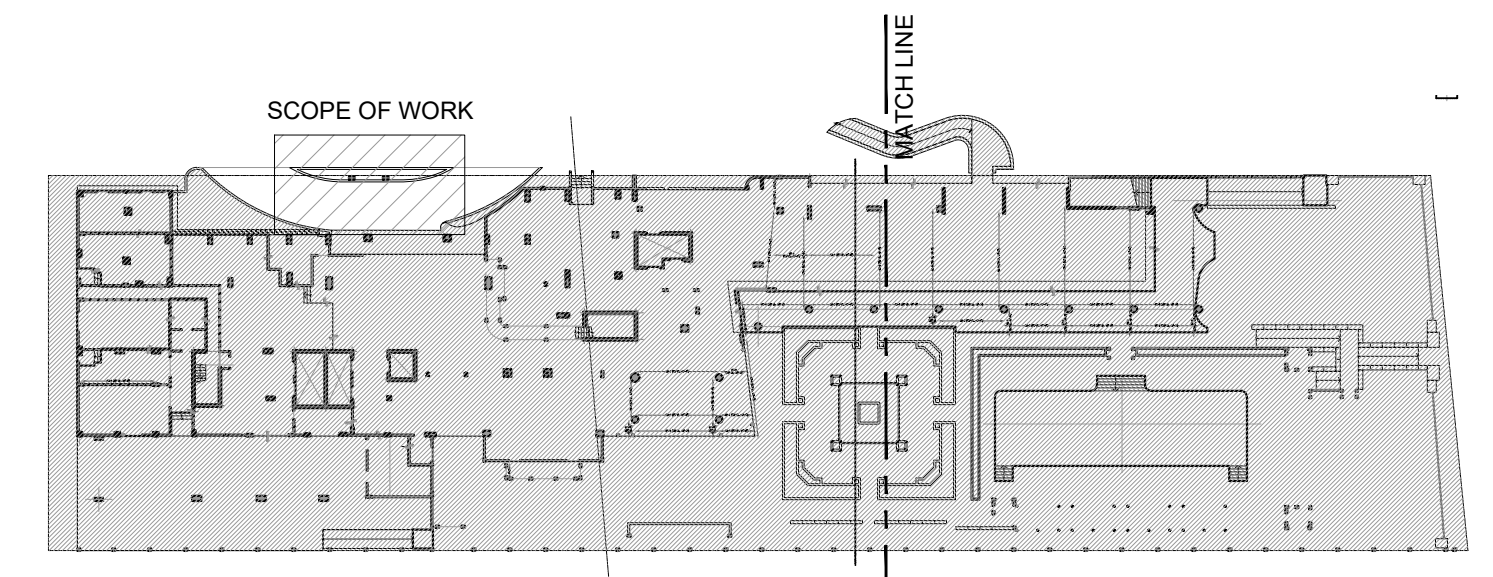
**DETAIL A (C-1) (BOTTOM SECTION)**  
1/2"=1'-0"



**DETAIL B (C-1) (TOP SECTION)**  
1/2"=1'-0"



**DETAIL C (C-1 VERT. SECTION)**  
3/8"=1'-0"



**KEY PLAN-GROUND LEVEL**  
N.T.S.

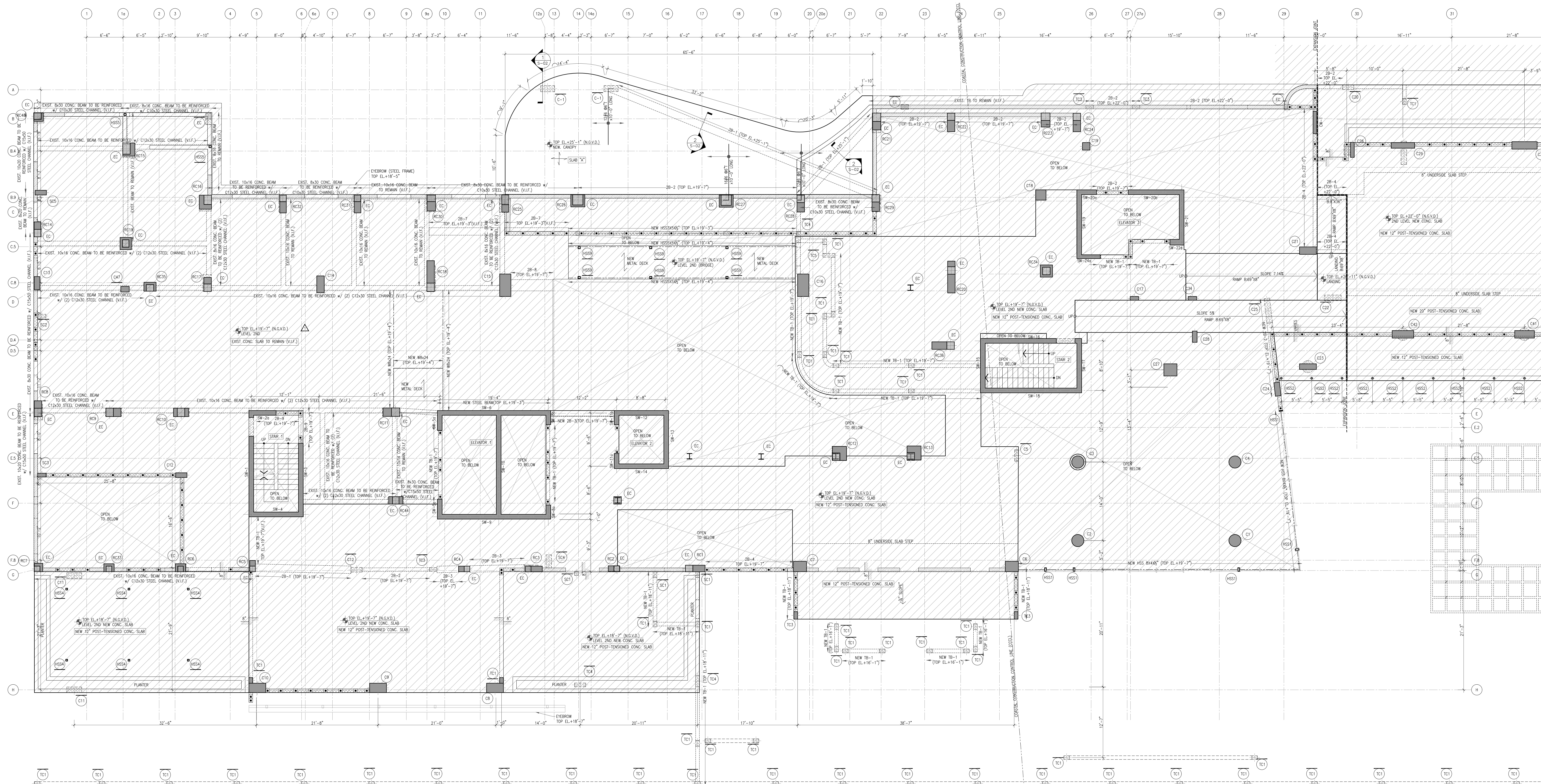
**MCE**  
YOUSSEF HACHEM  
CONSULTING ENGINEERING INC.  
CA 26553

**YOUSSEF H. HACHEM**  
LICENSE  
No 43302  
STATE OF  
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PROFESSIONAL ENGINEER

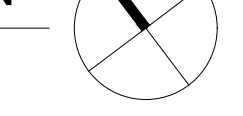
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**LEVEL 2ND (WEST) PROPOSED FRAMING PLAN**  
1/8"=1'-0"

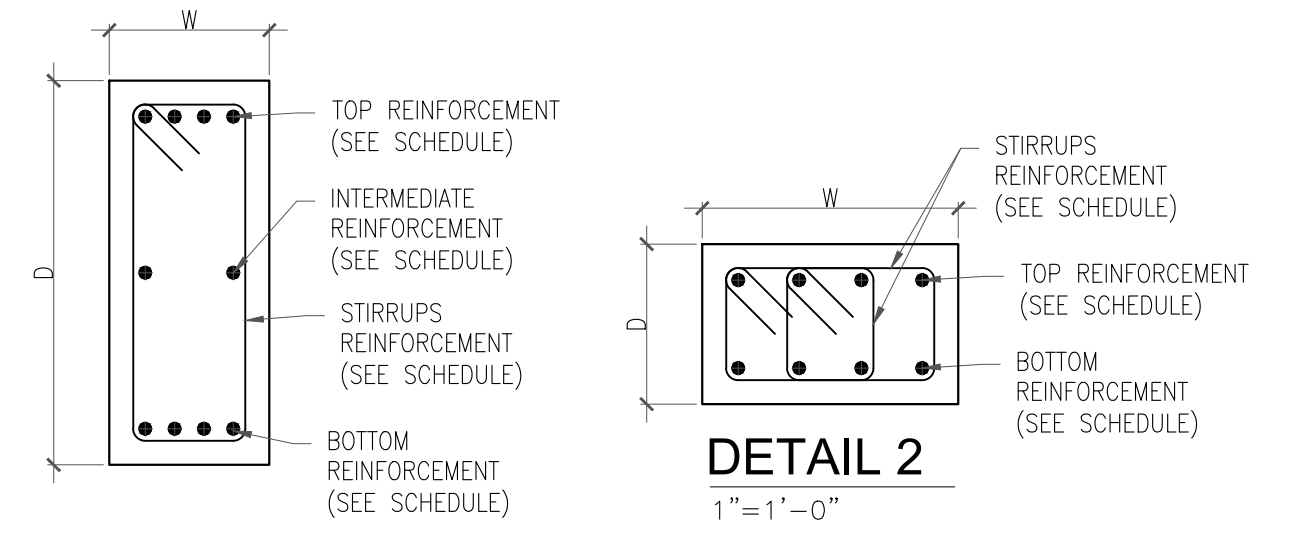


**LEGEND**

- Denotes a concrete column or shear wall below this level.
- Denotes a 8" load-bearing conc. block wall.
- Denotes an exist. wall to remain.
- Denotes a concrete beam.
- Denotes area in other permit.
- Denotes a column below this level.
- Denotes a new conc. column label.

**NOTES:**  
1-DIMENSIONS SHOWN SHALL BE FIELD-VERIFIED. ANY DISCREPANCIES SHALL BE NOTED AND THE ENGINEER OF RECORD NOTIFIED BEFORE CONTINUING WITH THE WORK.  
2-TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES.

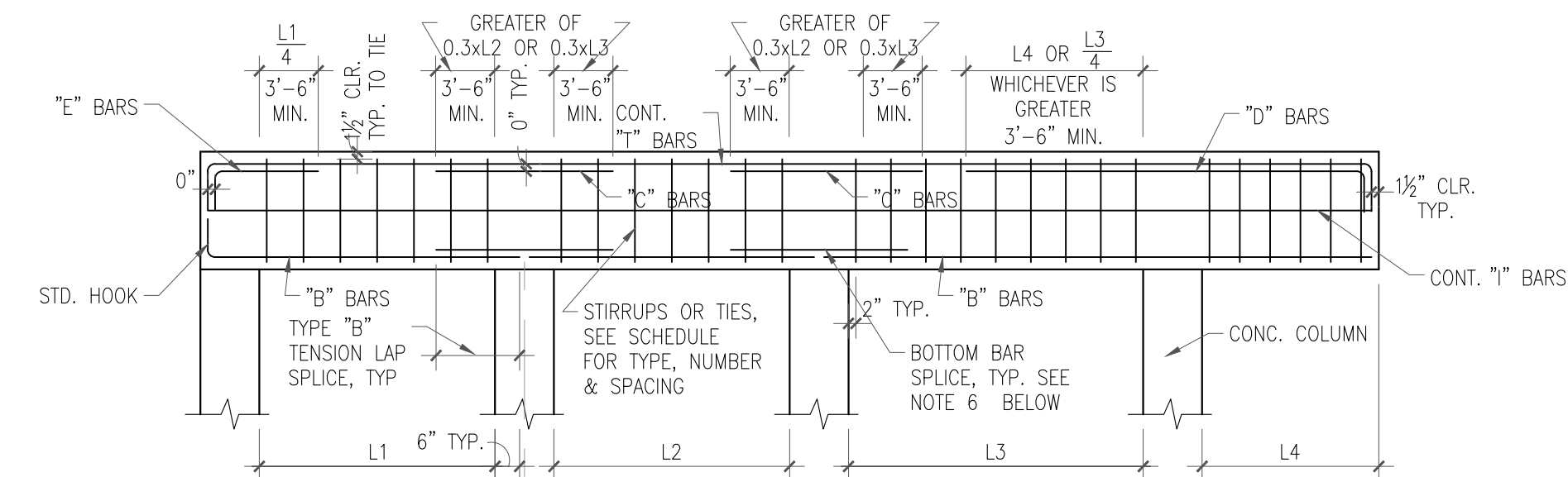
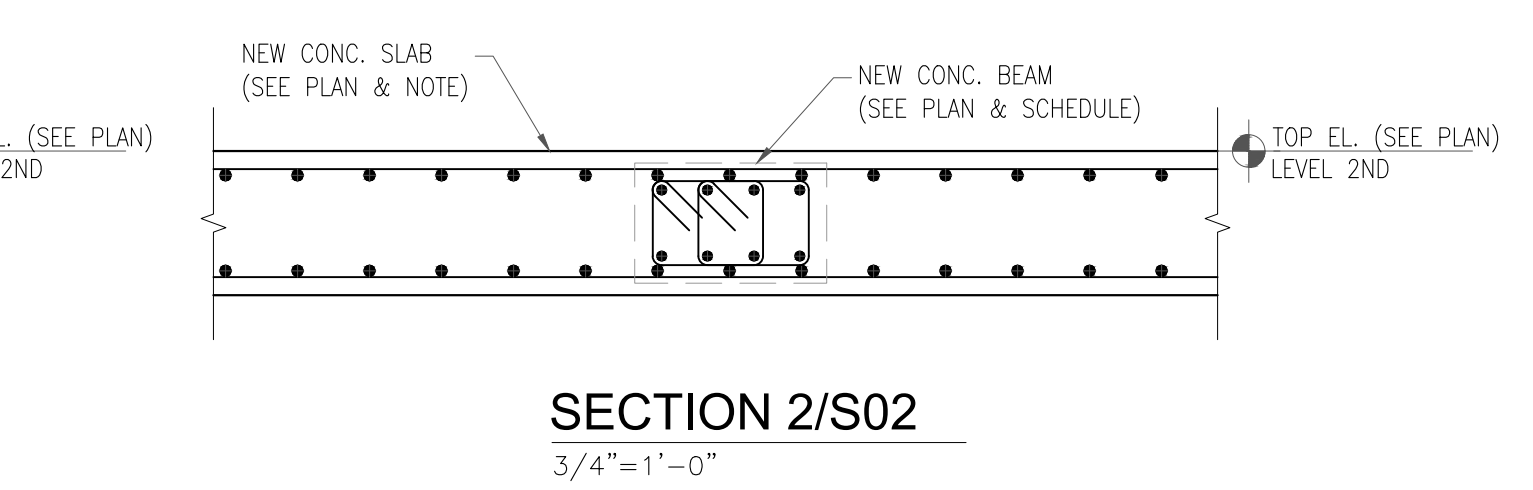
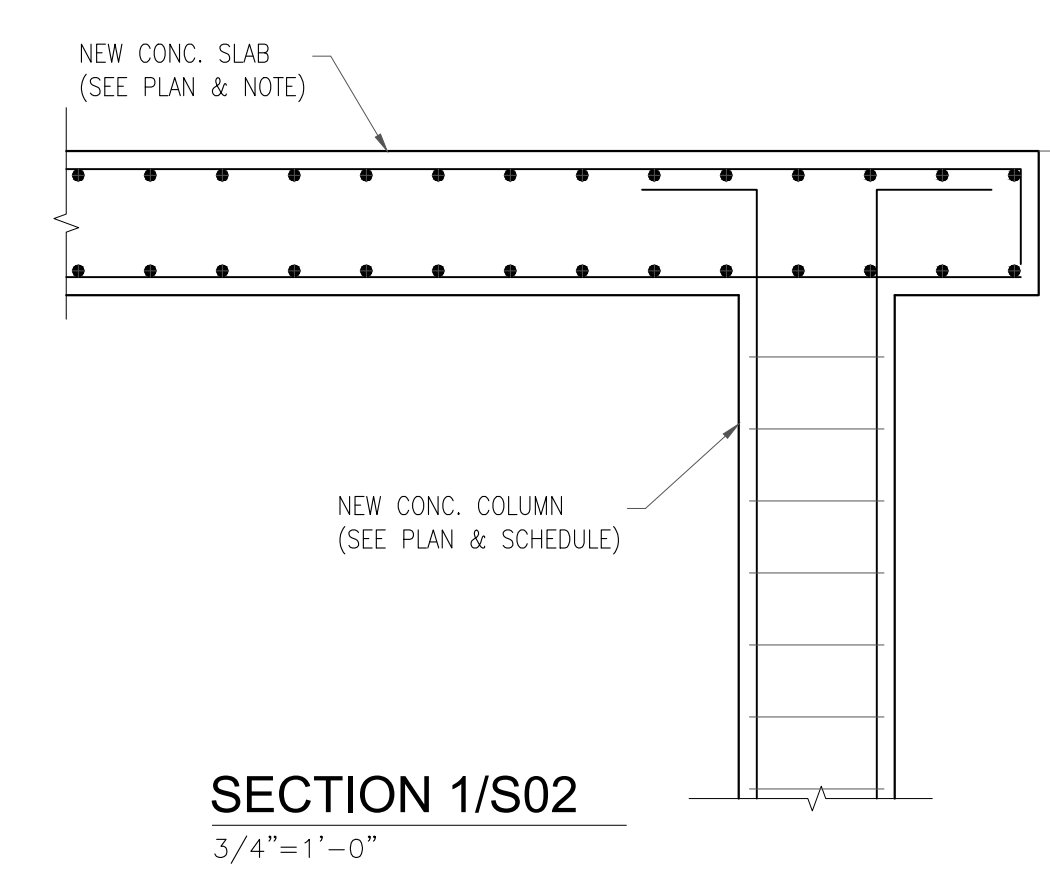
**NOTE:**  
EXISTING BEAM VERIFY IN FILL (V.I.F.) DIMENSION AND PROVIDE THE REINFORCEMENT



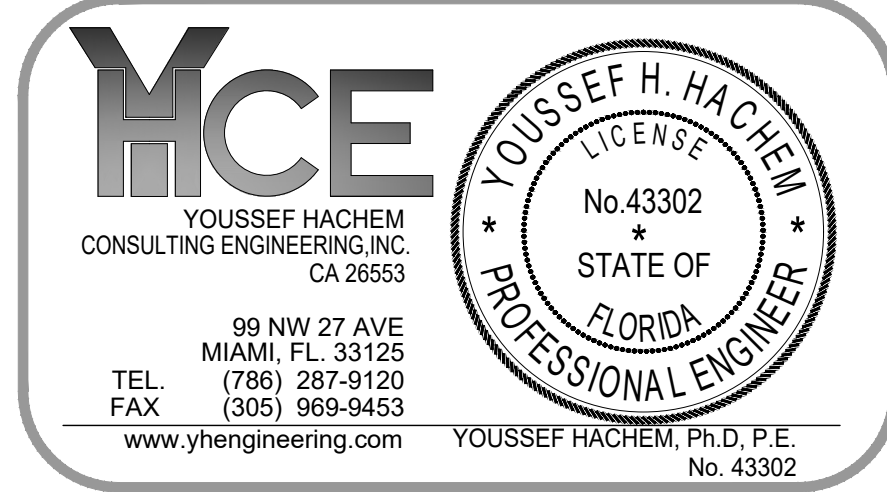
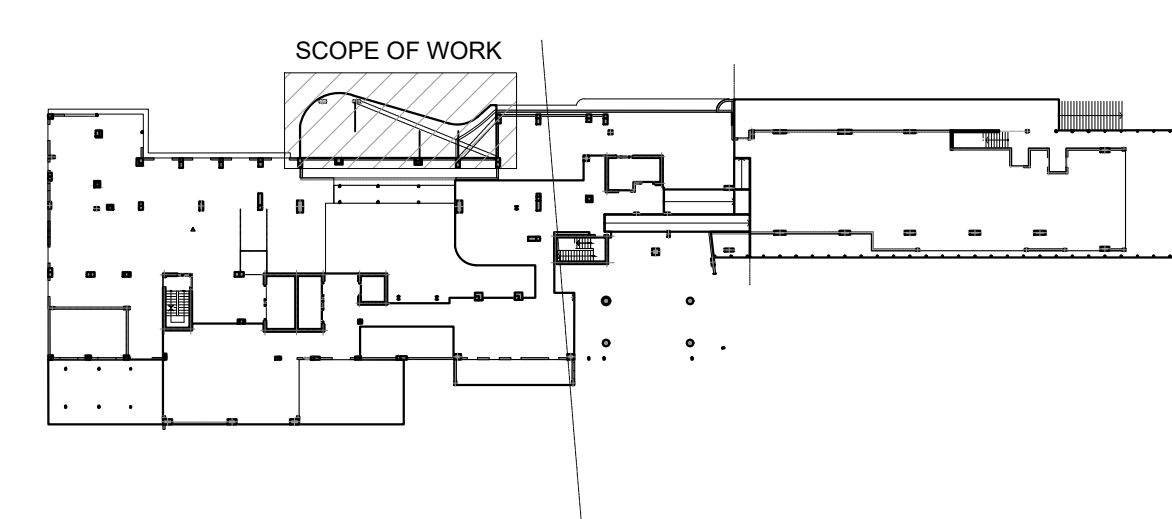
**BEAM SCHEDULE**

MARK	TOP ELEV.	SIZE		BOTT. BARS	TOP REINFORCING			STIRRUPS		REMARKS
		W	D		"A" BARS	"B" BARS	"C" BARS	SIZE	TYPE	
2B-1	SEE PLAN	16"	10"	4#7	4#6			2#3	6" O.C.	*TWO LEG (SEE DETAIL 2)
2B-2	SEE PLAN	8"	24"	4#7	4#7			1#7	4"	8" O.C. (SEE DETAIL 1)

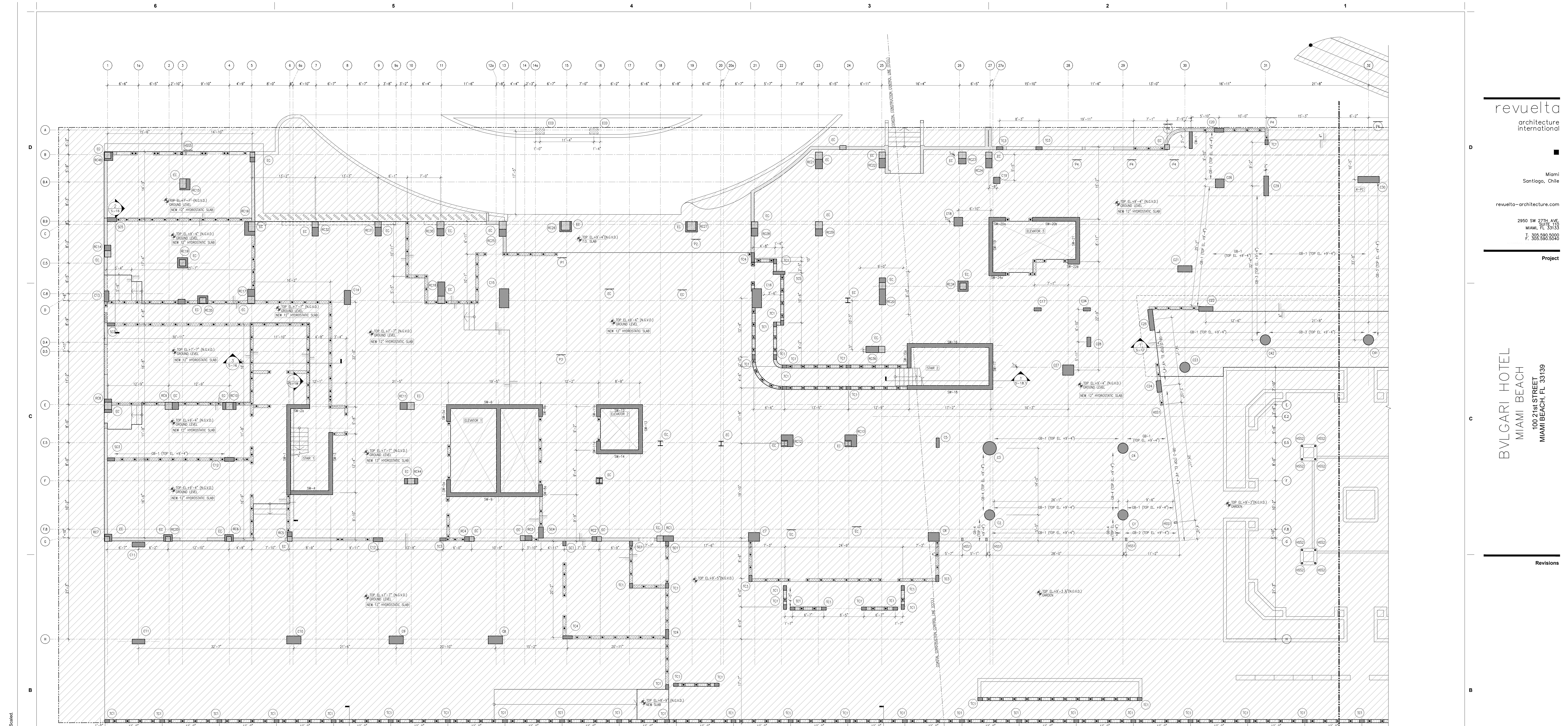
**BEAM NOTES:**  
1.-AT ALL BEAM CORNERS & INTERSECTIONS, PROVIDE 2 #5 L-SHAPED CORNER BARS WITH 30" LONG LEGS.  
2.-HOOK ALL TOP BARS AT ENDS.  
3.-DROP TB OVER OPENINGS & ADD 2 #6 BOTTOM. WHEN TB DEPTH EXCEEDS 36", PROVIDE 5 #4 @ 4/6 '1' BARS EACH FACE.



**NOTES:**  
1.-PLACE A MAXIMUM OF 2 BARS PER LAYER IN 8"-WIDE BEAMS.  
2.-ALL TOP & BOTTOM BARS SHALL BE CONT. WHERE NECESSARY. LAP SPUCE TOP BARS IN MIDDLE 3RD OF SPAN & LAP SPUCE BOTTOM BARS @ SUPPORTS. LAP SPUCE SHALL BE MIN. 3'-0". SPUCE TOP BARS AT MID SPAN W/ CLASS "B" TENSION LAP SPICES.  
3.-SPUCE "T" BARS AT SUPPORTS W/ CLASS "B" TENSION LAP SPICES.  
4.-PLACE "C" BARS OVER RIGHT-HAND SUPPORT, UNLESS NOTED IN REMARKS.  
5.-"T" BARS AS SCHEDULED SHALL BE PLACED EACH SIDE OF BEAM.  
6.-PROVIDE X OF THE AREA OF THE BOTTOM REINFORCING OF THE ADJACENT SPAN WITH THE HIGHEST AREA OF BOTTOM REINFORCING, BUT NOT LESS THAN TWO BARS. BAR SIZE NO LESS THAN A #5 BAR, WHERE ADJACENT BEAMS ARE DIFFERENT IN DEPTH PLACE THE SPUCE BAR AT THE LEVEL OF THE BOTTOM BARS OF THE SHALLOWEST BEAM.  
7.-ALL LAP SPUCE SHALL BE CLASS "B" TENSION LAP SPUCE, THE LONGER SPUCE LENGTH SHALL BE USED FOR BARS OF DIFFERENT SIZE.  
8.-"L" INDICATES THE LARGER OF ADJACENT SPANS.  
9.-WHERE BOTTOM BARS ARE INDICATED AS CONT. W/ADJACENT SPANS, SPICES, WHERE NEEDED, SHALL BE MADE AT SUPPORTS.  
10.-ALL TOP BARS TO BE HOOKED AT EA END WITH STANDARD HOOK SPECIFIED FOR TENSION, SEE SCHEDULE.



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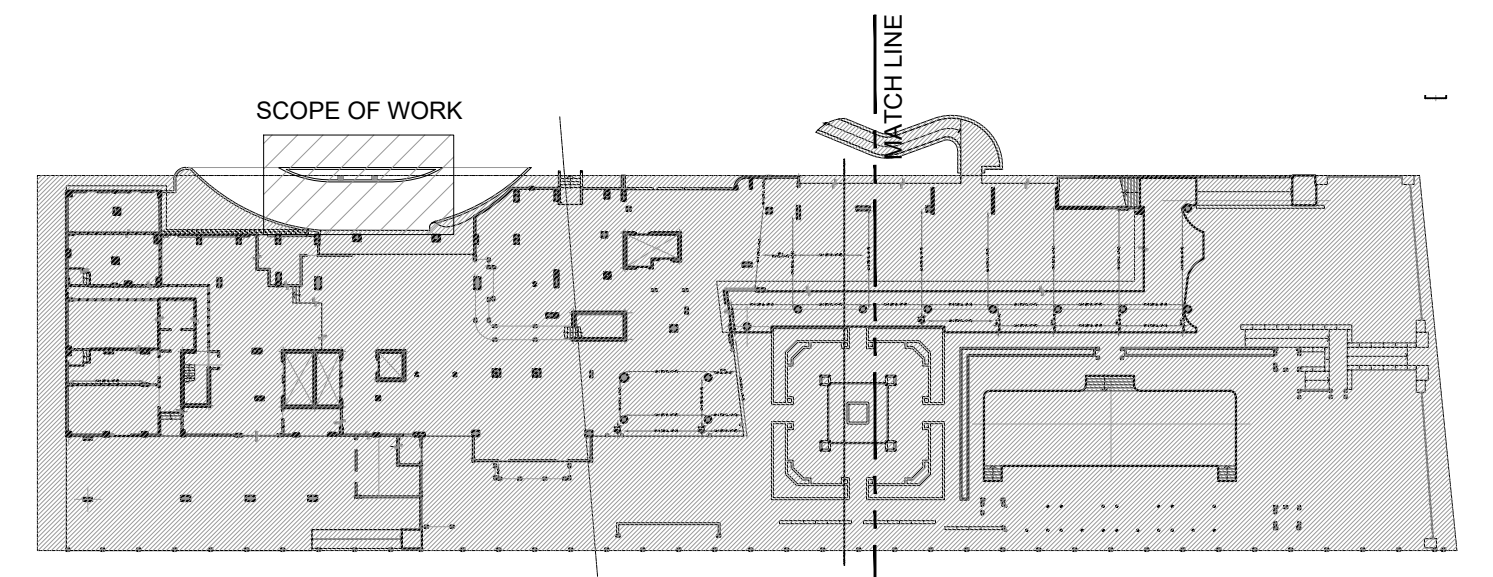
**GROUND LEVEL (WEST) DEMOLITION PLAN**  
 1/8"=1'-0"

**LEGEND**

	DENOTES A CONCRETE COLUMN OR SHEAR WALL STATION OR CONTINUE A THIS LEVEL.
	DENOTES A 8" LOAD-BEARING CONC. BLOCK WALL.
	DENOTES AN EXIST. WALL TO REMAIN.
	DENOTES AN EXIST. CONC. COLUMN TO BE DEMOLISH.
	DENOTES AREA IN OTHER PERMIT.
	DENOTES A COLUMN BELOW THIS LEVEL.
	DENOTES AN EXIST. COLUMN TO BE DEMOLISH LABEL.

**NOTES:**

- 1-DIMENSIONS SHOWN SHALL BE FIELD-VERIFIED. ANY DISCREPANCIES SHALL BE NOTED AND THE ENGINEER OF RECORD NOTIFIED BEFORE CONTINUING WITH THE WORK.
- 2-ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- 3-TOP OF GRADE BEAMS AND PILE CAPS TO BE AT FROM EXISTING GRADE, U.O.N.
- 4-CONTRACTOR TO SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR WINDOWS AND DOORS BY FLORIDA PROFESSIONAL ENGINEER BEFORE FABRICATION FOR APPROVAL BY THE ENGINEER OF RECORD TO SHOW COMPLIANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 (SEVENTH EDITION).
- 5-TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES.
- 6-A 6-MIL POLYETHYLENE OR APPROVED VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR THE PREPARED SUBGRADE WHERE NO BASE COURSE EXISTS PER RESIDENTIAL F.B.C. 2020 (SEVENTH EDITION), SECTION R506, R506.2.3.



**KEY PLAN-GROUND LEVEL**  
 N.T.S.

**MCE**  
 YOUSSEF HACHEM  
 CONSULTING ENGINEERING, INC.  
 CA 28553

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 (786) 785-6504

**Consultant**

Luis O. Revuelta  
 AR-007972

**PERMIT SET**

Date  
 11/10/2022

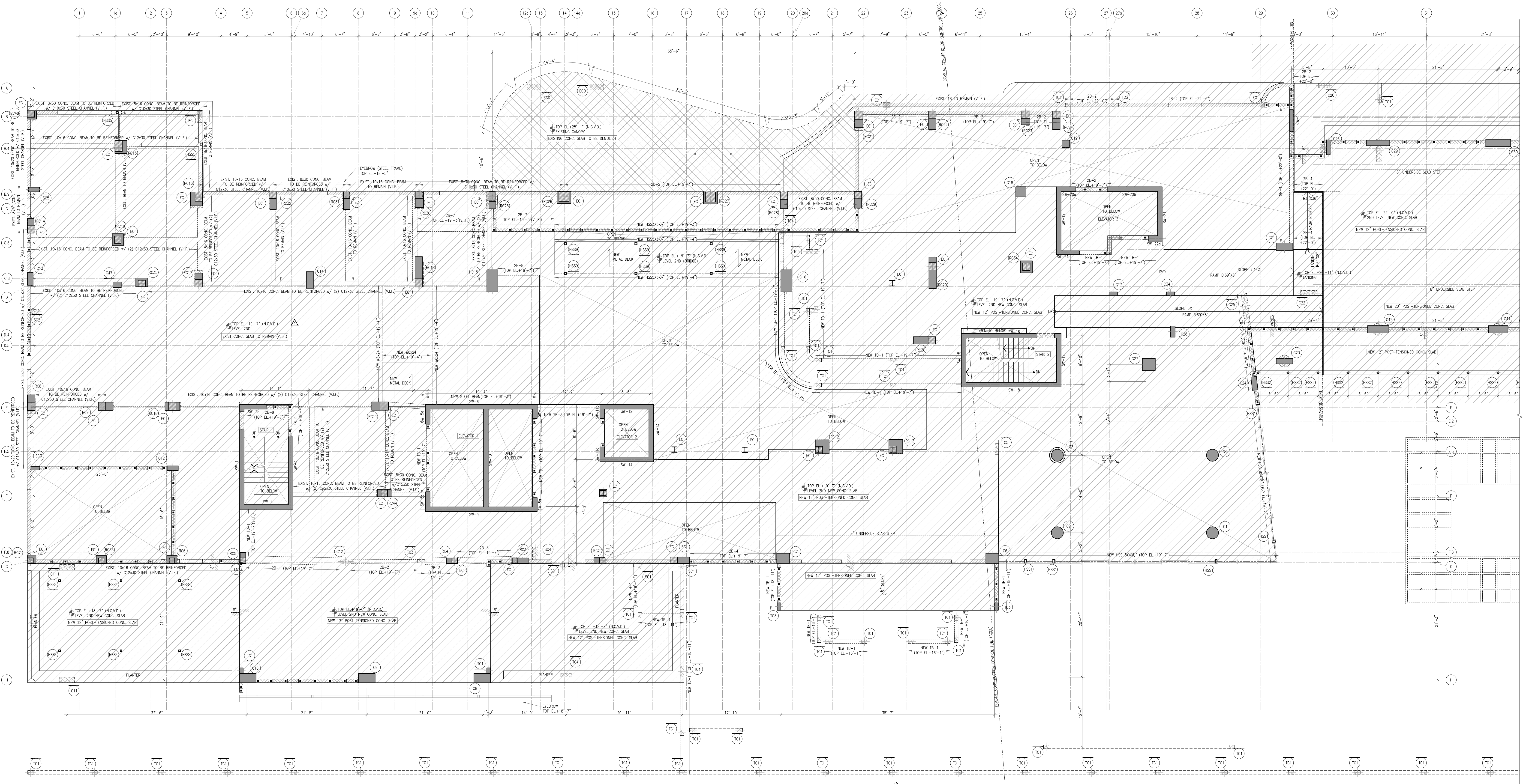
Scale  
 AS SHOWN

Project No.  
 2005

Sheet Name  
 GROUND LEVEL (WEST)  
 DEMOLITION PLAN

Sheet No.  
 SD-01

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**LEVEL 2ND (WEST) DEMOLITION PLAN**  
1/8" = 1'-0"

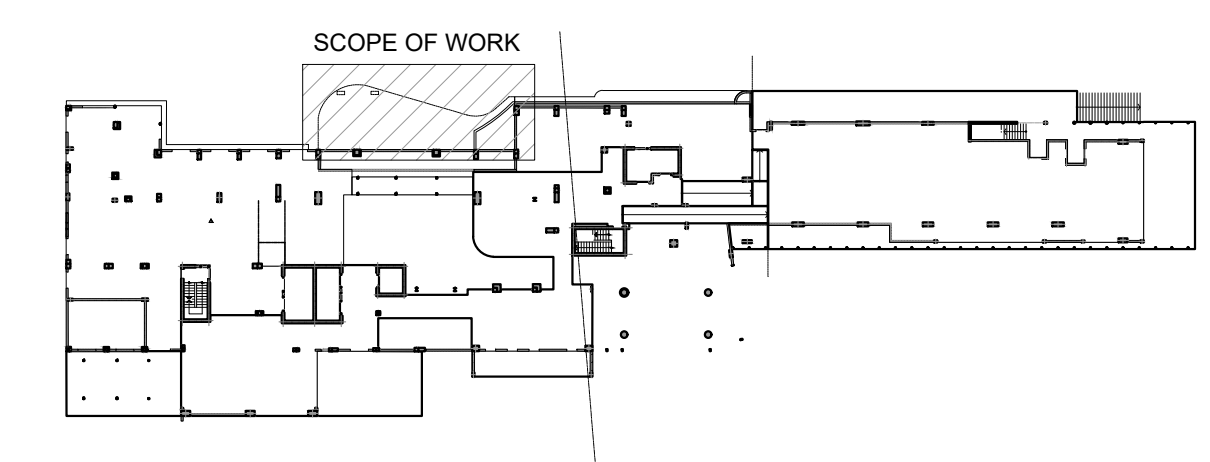
**LEGEND**

	DENOTES AN EXISTING CONCRETE COLUMN OR SHEAR WALL BELOW THIS LEVEL
	DENOTES A 8" LOAD-BEARING CONC. BLOCK WALL
	DENOTES AN EXIST. WALL TO REMAIN
	DENOTES AN EXIST. CONC. COLUMN TO BE DEMOLISH
	DENOTES AREA TO BE DEMOLISH
	DENOTES AREA IN OTHER PERMIT
	DENOTES A COLUMN BELOW THIS LEVEL
	DENOTES AN EXIST. COLUMN TO BE DEMOLISH LABEL

**NOTES:**

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- 2-ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- 3-TOP OF GRADE BEAMS AND PILE CAPS TO BE AT -1'-0" (+12.36' N.G.V.D.) FROM EXISTING GRADE, U.L.O.A.
- 4-CONTRACTOR TO SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR WINDOWS AND DOORS BY FLORIDA PROFESSIONAL ENGINEER BEFORE FABRICATION FOR APPROVAL BY THE ENGINEER OF RECORD TO SHOW COMPLIANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 (SEVENTH EDITION).
- 5-TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 631, FLORIDA STATUTES.
- 6-A 6-MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR THE PREPARED SUBGRADE WHERE NO BASE COURSE EXISTS PER RESIDENTIAL F.B.C. 2020 (SEVENTH EDITION), SECTION R506, R506.2.3.

**NOTE:**  
EXISTING BEAM VERIFY IN FILL (V.I.F.) DIMENSION AND PROVIDE THE REINFORCEMENT



**KEY PLAN-LEVEL 2**  
N.T.S.

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