

GENERAL NOTES

- Concrete shall be 3000 PSI for Caissons and 3500 PSI for the remaining work.
- The contractor shall be responsible to verify all dimensions, elevations and conditions in the field.
- All reinforcements detailing, fabrication and placement shall conform to the latest ACI Specifications and CRSI Manual.
- Reinforcing bars shall be ASTM-615, Grade 60.
- All caissons should be placed to exact location. No deviation over 2" can be permitted.
- The maximum design bearing capacity for caissons is 7,500 PSF on the base of a circular pier and shall be verified by a soils engineer in the field during drilling.
- Laps and splices shall be in conformation with ACI-318. Top bars shall be lapped or spliced at the mid-span and the bottom bars shall be lapped or spliced at the support.
- All top horizontal rebar shall be lapped a minimum of 24 diameter or 12" whichever is greater, and all bottom horizontal rebar shall be lapped a minimum of 36 diameter.
- Concrete cover for reinforcement shall be provided per the latest ACI code 318-05.
- Provide #5 rebar continuous in all footings.
- Provide 2 #5 rebar, 3' long with 6" bend at all quarter-points between caissons in all grade beams in the basement (see Detail E-E).
- All rebar in grade beams are continuous.
- Final 6" of fill beneath all concrete slabs should be crushed stone or gravel. A sheet of visqueen should be placed over granular fill before concrete is poured.
- Basement foundation walls should be backfilled with compacted granular fill to reduce lateral earth pressure.

GRADE BEAM SCHEDULE

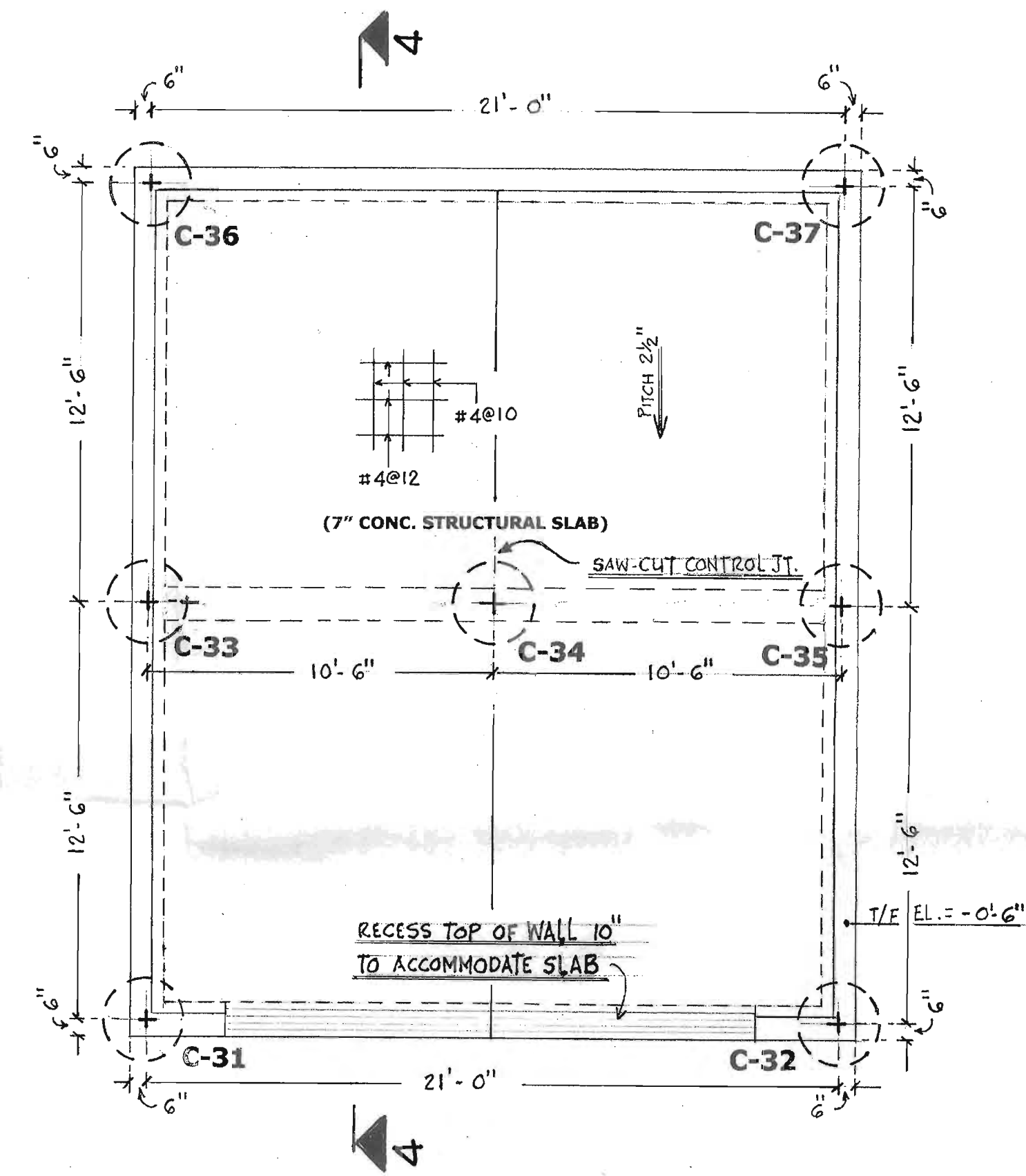
GRADE BEAM DESIGNATION	HORIZONTAL REINFORCEMENT		TYPE OF HORIZONTAL REINFORCEMENT	STIRRUPS		
	BOTTOM	TOP		SIZE	TYPE	SPACING
GB-1	2#5	2#5	CONTINUOUS	-	-	-
B-1	3#5	3#5	"	#4	□	15"

CAISSON SCHEDULE

BM: T/F ELEVATION = 0'-0" (SECTION 1-1) - 694.5

CAISSON DESIGNATION	SHAFT DIAMETER	BELL DIAMETER	ELEV. AT THE TOP OF CAISSON
RESIDENCE			
C-1 THRU C-13	2'-0"	-	-8'-6"
C-14 THRU C-21	2'-6"	-	-8'-6"
C-22 THRU C-25	3'-0"	-	-8'-6"
DECK & EXT. STAIRS			
C-26 THRU C-28	2'-0"	-	-8'-6"
C-29 & C-30	2'-0"	-	-1'-0"
GARAGE			
C-31 THRU C-37	2'-6"	-	-5'-0"

SPECIAL CAISSON NOTES: ALL THE CAISSONS SHALL BE FOUND ON VERY STIFF GRAY SILTY CLAY POSSESSING AN ALLOWABLE BEARING CAPACITY OF 7,500 PSF (9p = 2.5 TSF) ON THE BASE OF A CIRCULAR PIER. IT IS EXPECTED THAT THE DEPTH OF CAISSONS MAY BE IN THE RANGE OF 28'. BEARING CAPACITY SHALL BE VERIFIED IN THE FIELD BY A LICENSED GEOTECHNICAL ENGINEERING FIRM.

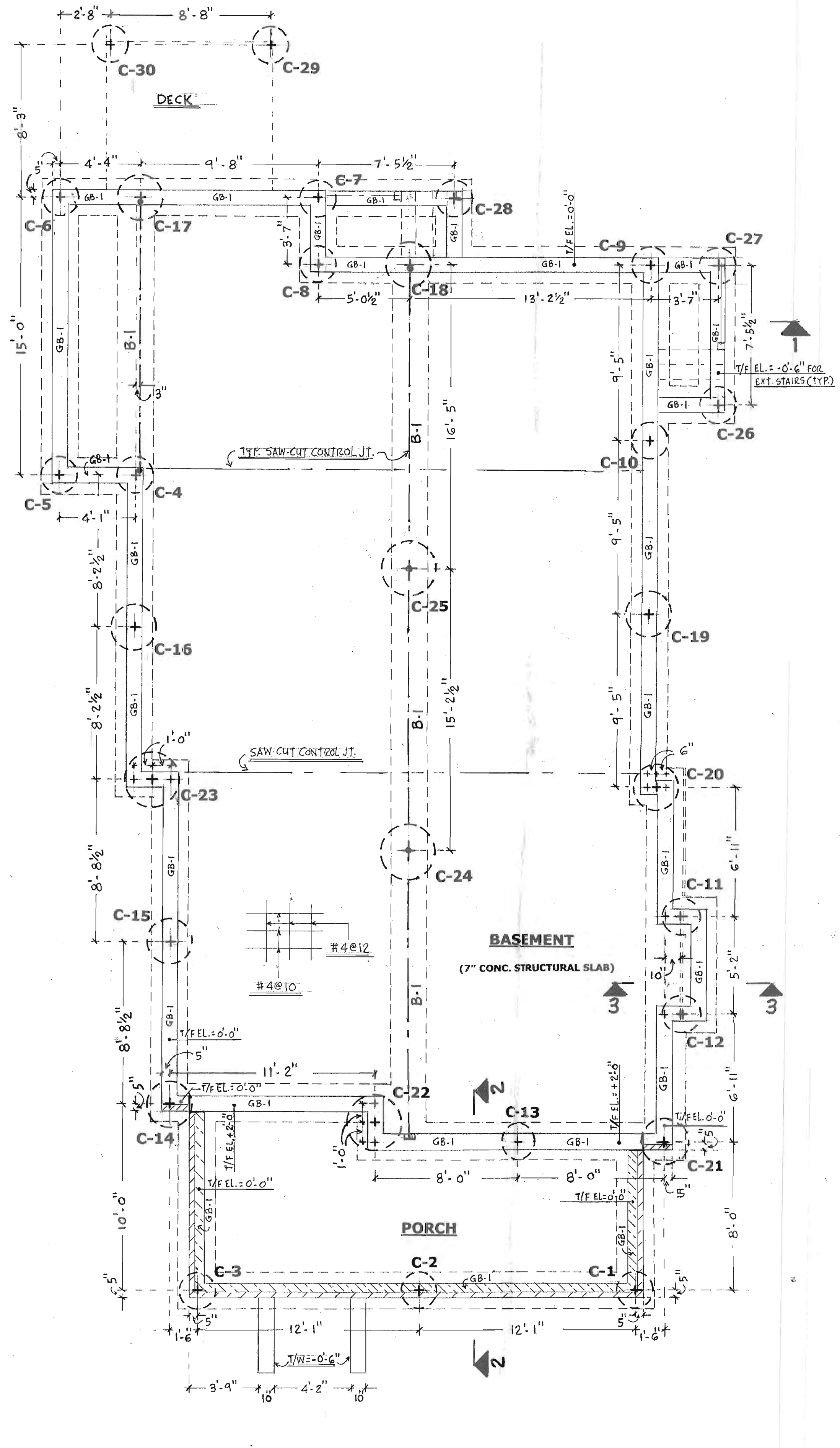
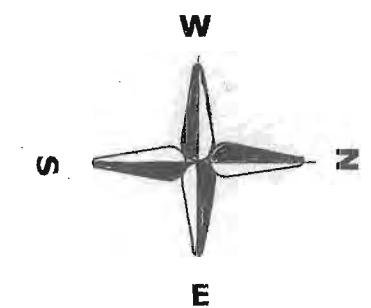


CAISSON FOUNDATION PLAN (GARAGE) SCALE: 1/4" = 1'

- ALL WALL FOOTINGS ARE 24" (W) X 12" (D).
- ALL FOUNDATION WALLS ARE 10" WIDE WITH AN EXCEPTION OF GARAGE WALL WHICH IS 12".
- PROVIDE ADEQUATE CONTROL JOINTS IN SLABS TO RESTRICT SHRINKAGE CRACKS.
- ALL CONDITIONS, DIMENSIONS, AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE WORK IS STARTED. IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING THE WORK.

A WATERPROOF COATING OR MEMBRANE SHALL BE APPLIED TO THE EXTERIOR OF ALL FOUNDATION WALLS BELOW FINISHED GRADE

5-14-13



CAISSON FOUNDATION PLAN (RESIDENCE) SCALE: 1/4" = 1'

BM: T/F ELEVATION = 0'-0" (694.5)

CAISSON FOUNDATION DESIGN

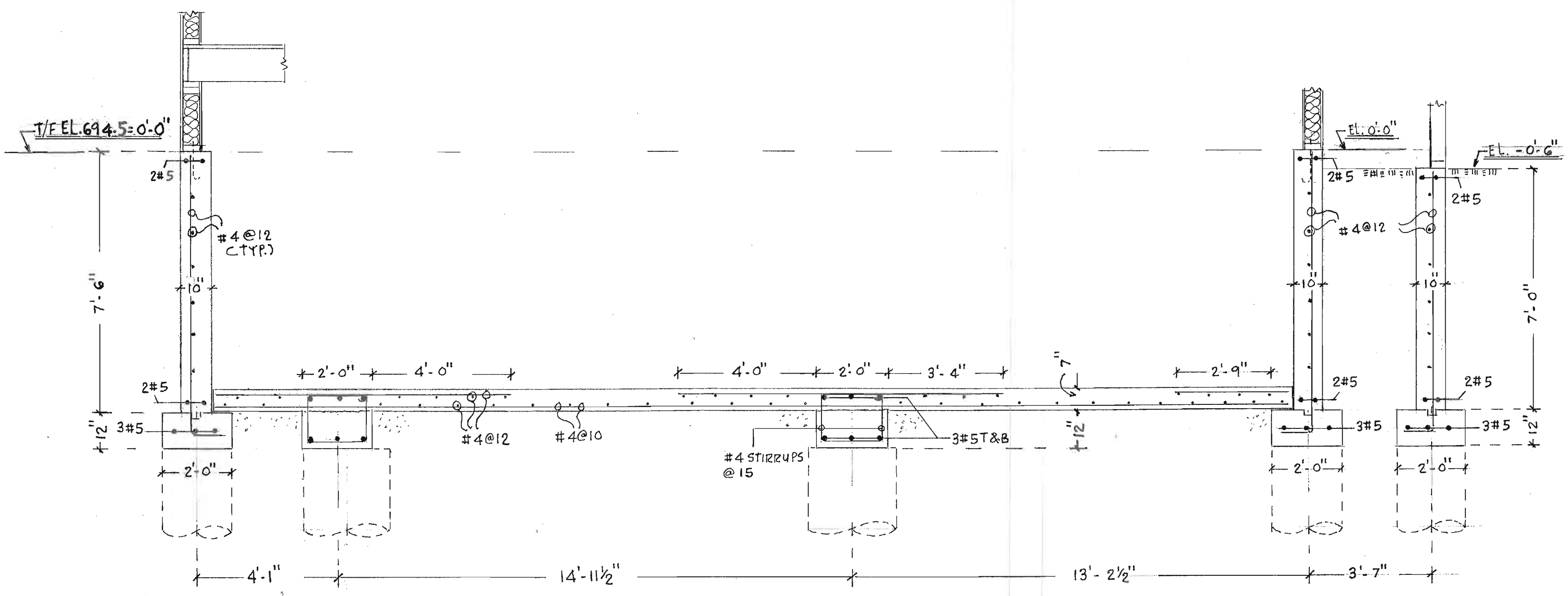
SINGLE FAMILY RESIDENCE
14620 S. WESTWOOD DR.
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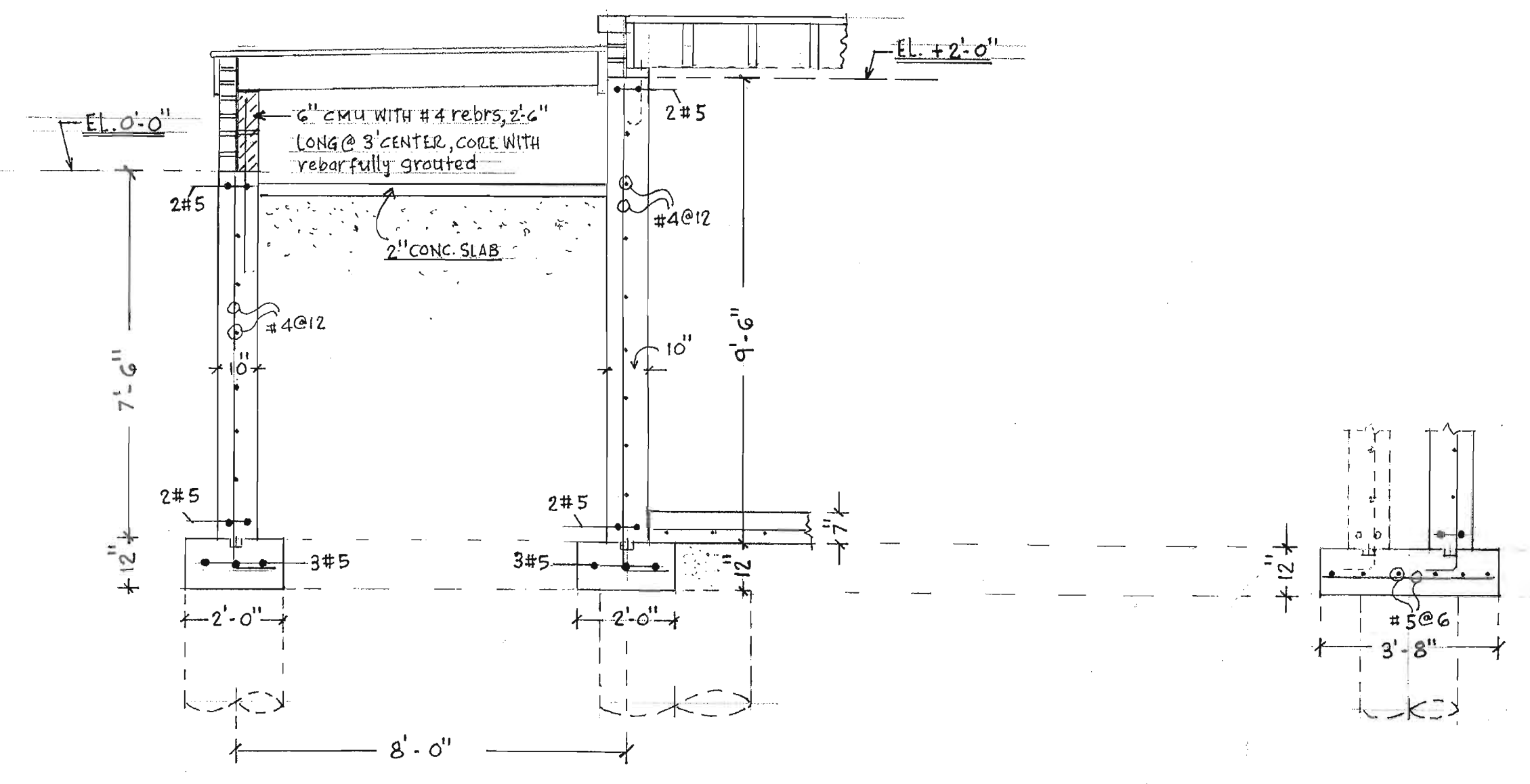


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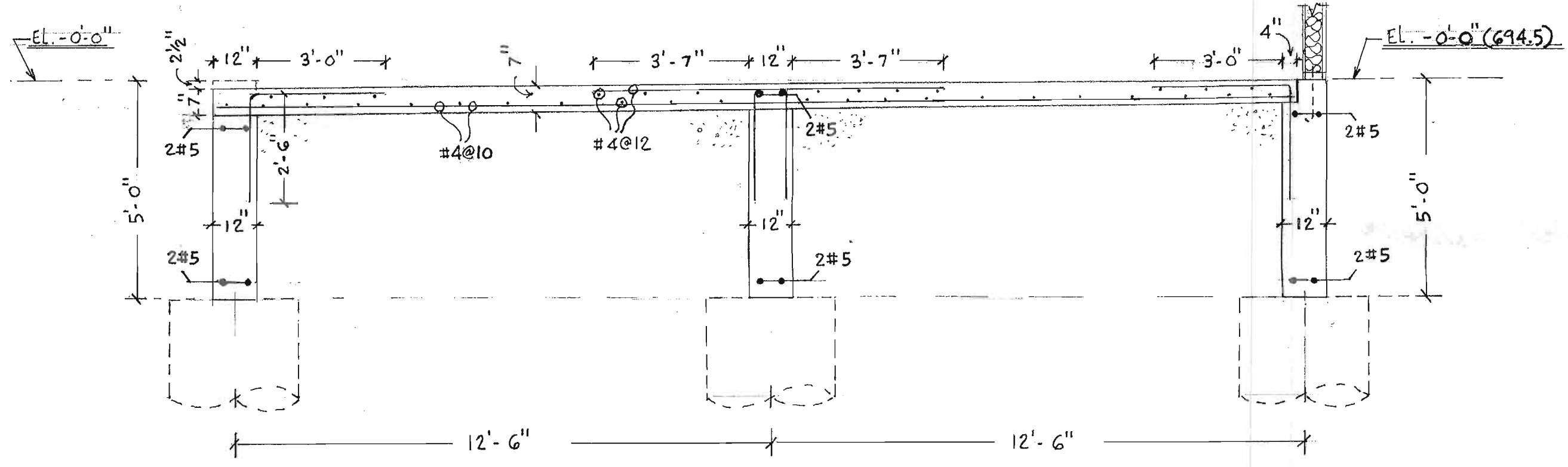


SECTION 1-1 SCALE: 3/8"=1'

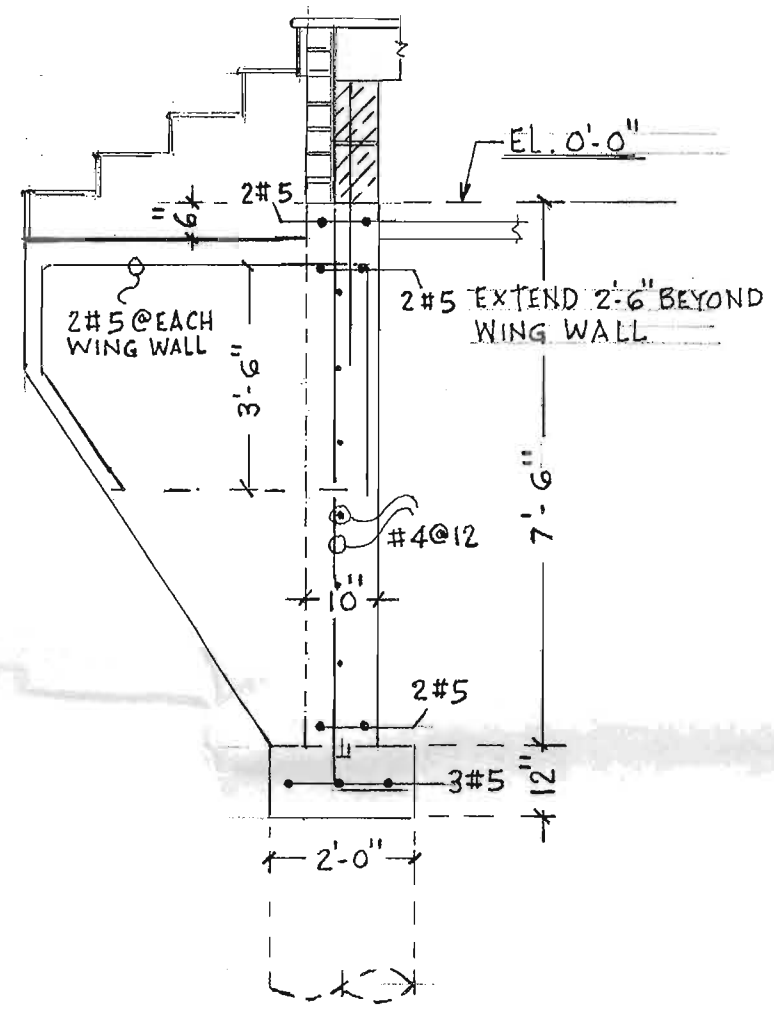


SECTION 2-2 SCALE: 3/8"=1'

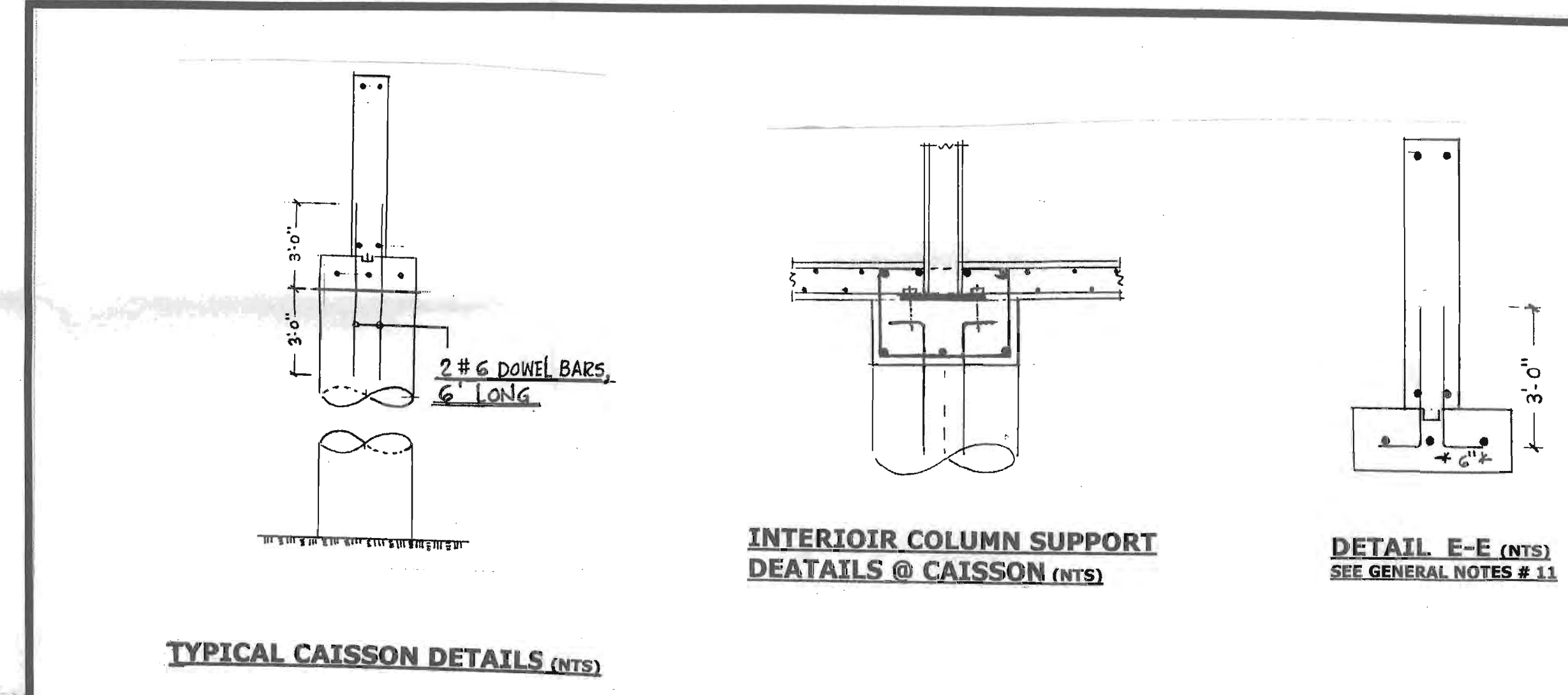
SECTION 3-3 SCALE: 3/8"=1'



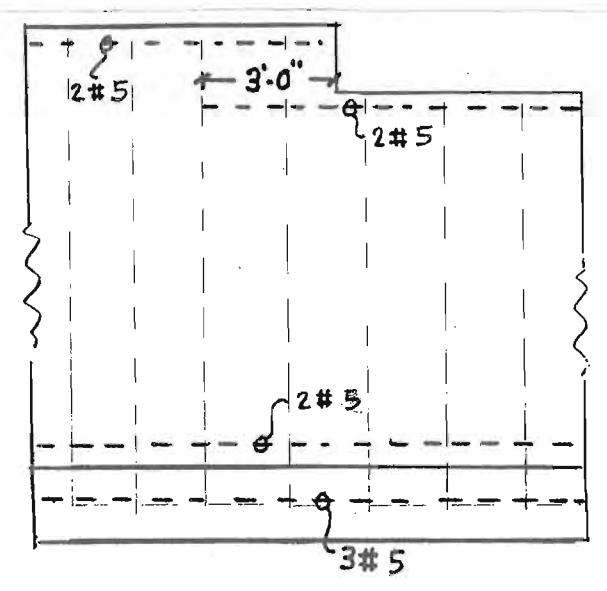
SECTION 4-4 SCALE: 3/8"=1' (GARAGE)



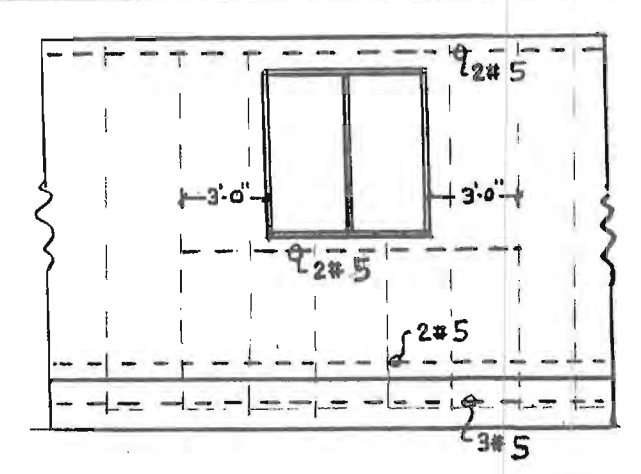
TYP. WING WALL DETAILS @ ENTRANCE SCALE: 3/8"=1'



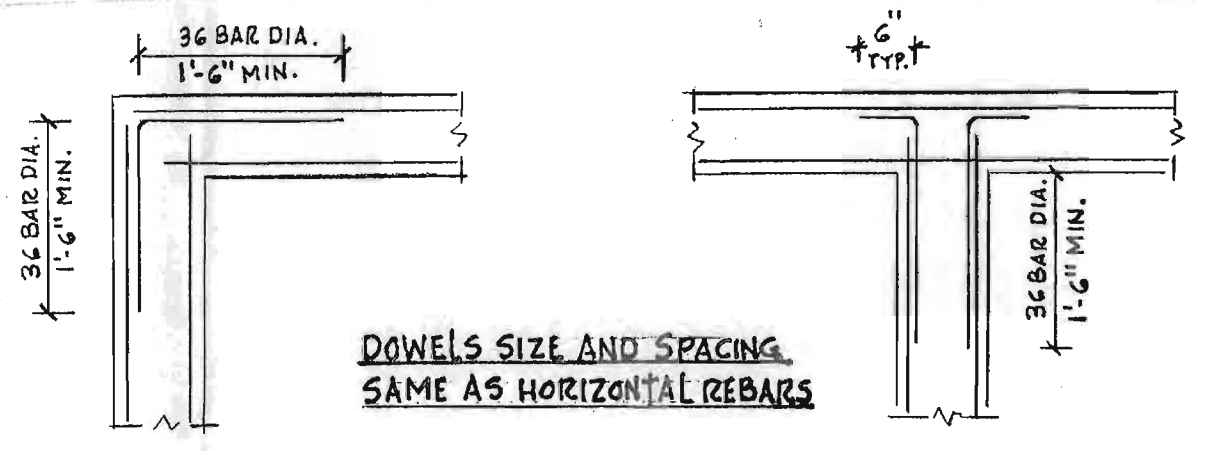
TYPICAL CAISSON DETAILS (NTS)



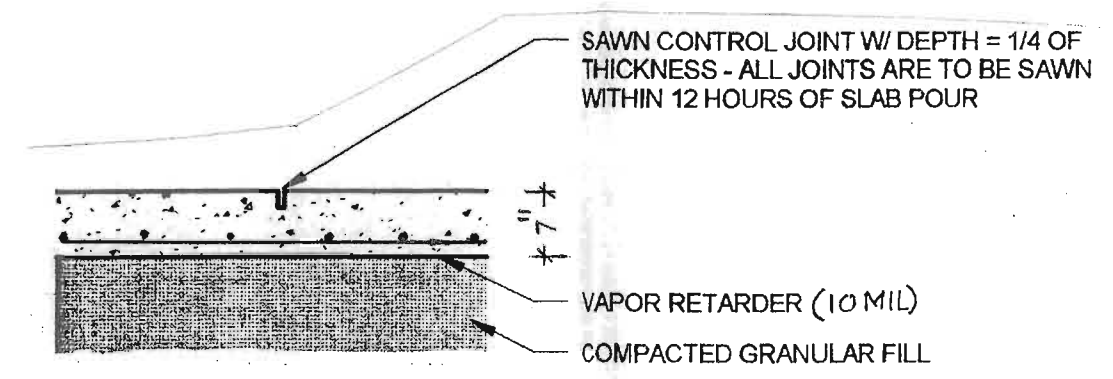
REBARS DETAIL @ THE STEPPING OF WALL (NTS)



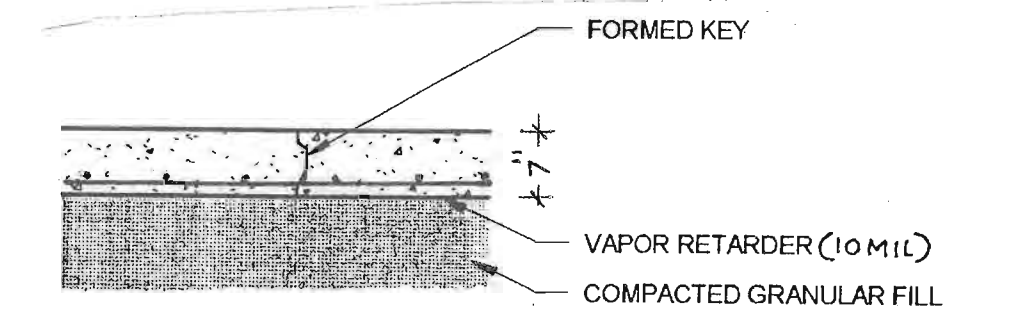
REBARS DETAIL @ WINDOW WELL (NTS)



TYP. REBARS DETAIL @ CORNERS & T-INTERSECTIONS (NTS)



TYP. SLAB CONTROL JOINT (NTS)



TYP. SLAB CONSTRUCTION JOINT (NTS)

CAISSON FOUNDATION DESIGN

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