



3679 S. Huron St., Suite 404  
 Englewood, CO 80110  
 Phone: (303) 789-4111 FAX: (303) 789-4310

## SUBMITTAL TRANSMITTAL

October 20, 2011  
**WGCM Submittal No. 03200 - 004.C**

**PROJECT:** **HAROLD D. THOMPSON W.R.F.**  
 9001 Birdsell Road.  
 Fountain, Colorado 80817

**ENGINEER:** **G.M.S. Inc.**  
 611 North Weber St. # 300  
 Colorado Springs, CO 80239  
 719-475-2935 Roger Sams

**OWNER:** **Lower Fountain Metropolitan Sewage Disposal District**  
 901 South Santa Fe Avenue  
 Fountain, CO 80817

**CONTRACTOR:** **DALCO Industries, Inc.**  
 3730 Salem St.  
 Denver, CO 80239  
 303-371-3950..

**SUBJECT** Dalco Drain Pipe Encasement Plan - Drawing P12A  
 Slab @ Headworks - Sec's. & Elev. @ headworks.  
 • Drawings: P5. P6. P7, P8, P9, P10, P11, & P12.

**SPEC SECTION:** 03200 - Concrete Reinforcement

**PREVIOUS SUBMISSION DATES:** (Sept. 21, 2011)

**DEVIATIONS FROM SPEC:** \_\_\_\_\_ YES \_\_\_\_\_ NO (See Attachment)

**CONTRACTOR'S STAMP:** This submittal has been reviewed by Weaver Construction Management and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto.

**Contractor's Stamp:**

**Engineer's Stamp:**

Date: 10-20-2011

Reviewed by: \_\_\_\_\_  
 Reviewed Without Comments  
 Reviewed With Comments

**ENGINEER'S  
 COMMENTS:** \_\_\_\_\_



**HAROLD D. THOMPSON REGIONAL  
RECLAMATION FACILITY  
9001 Birdsell Road  
Fountain, Colorado 80817**

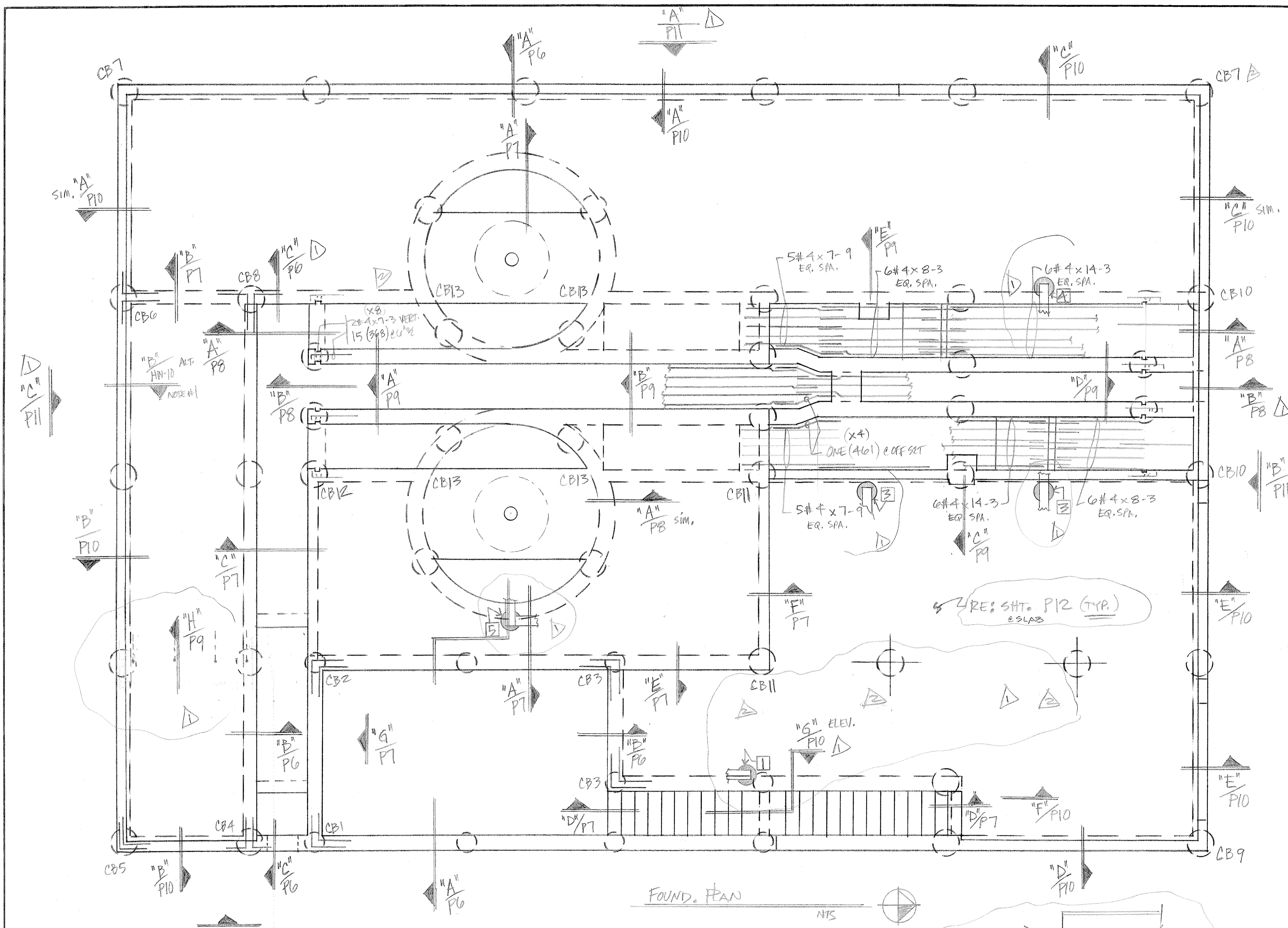
**Section # 03200 – Concrete Reinforcement**  
Submittal 03200-04.C - Dalco

Submitted by: DALCO Industries, Inc.  
Drain Pipe Encasement Plan – Drawing P12A  
Slab @ Headworks – Sec's. & Elev. @ Headworks  
Drawings P5, P6, P7, P8, P9, P10, P11 & P12.

Contractors Review Comments: Deviations from the Specification / Drawings,  
Engineer to verify:

\_\_\_\_\_

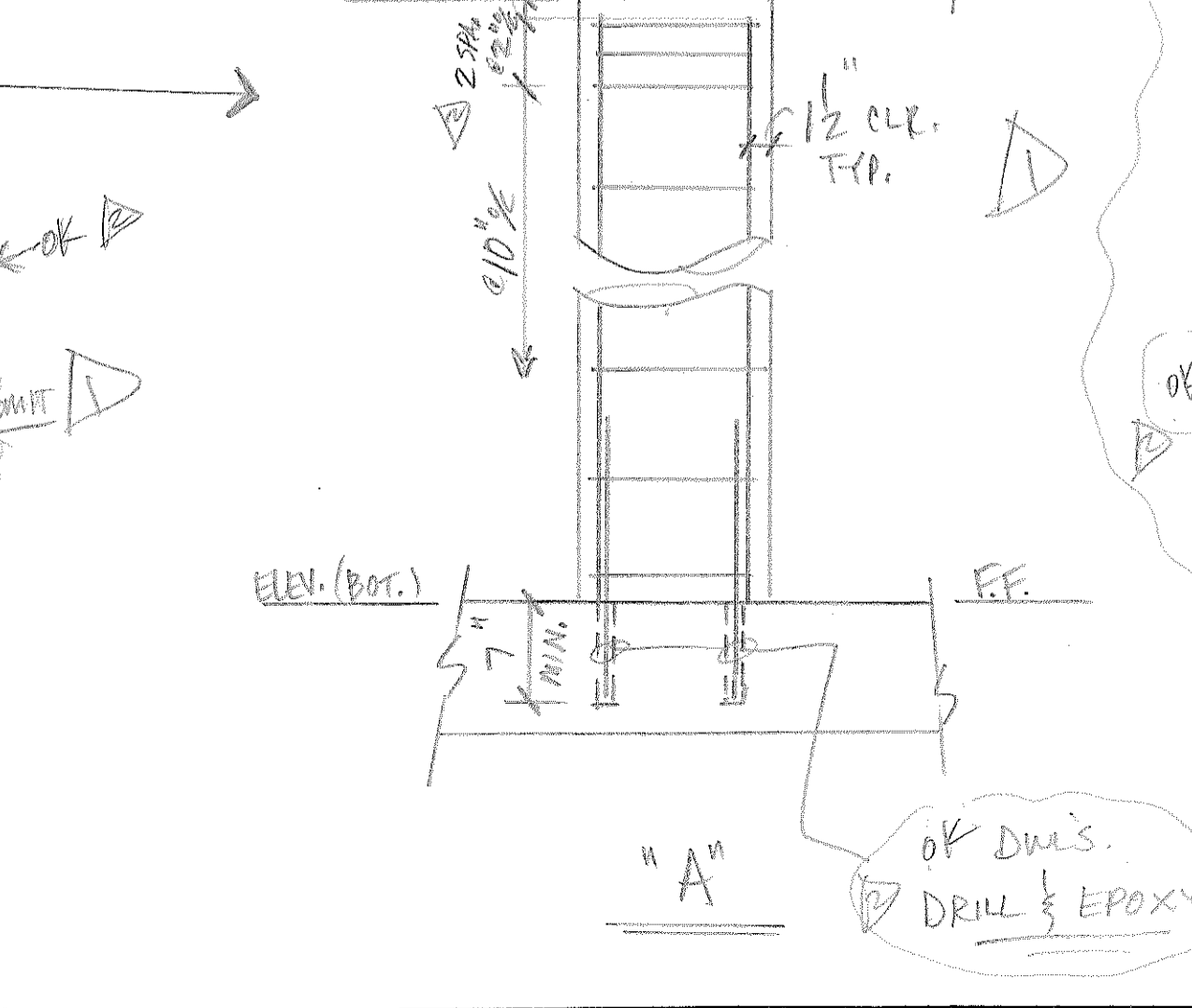
1. Dalco Drawing P12 Revision 3 Note
  - Remove: "Provide full length #5, #8, & #11 Bottom Slab Bars – Do not Splice"
2. Ref: e-mail September 26, 2011 – John Jacob – (attached).
  - *The #4 bottom bars, there was no markup comment on these bars, and therefore these can be spliced.*
  - *The no splice requirement is only for the #5, #8 and #11 bottom reinforcing bars which act as the primary reinforcing in the span (short) direction for the one-way slab design.,*
3. End of Review



QTY	SIZE	TYPE	LENGTH FT. - IN.	MARK	SKETCH	A	B	C	D	E	F/R	G	H	K	J	O
7	11		727	L			3-4	4-0								
4	11		428	L			3-0	3-0								
6	11		629	L			2-10	3-6								
5	17		530	L			2-6	2-6								
3	T2		331	□		+	1-0	0-10	+	+				+		
3	T2		332	□		+	1-0	0-4	+	+				+		
6	20		633	L			4-0	2-8	4-0							
6	20		634	L			4-0	1-0	4-0							
4	17		435	L			0-8	2-2								
8	17		836	L			1-4	5-0								
3	T2		337	□		+	0-8	0-8	+	+				+		
8	9		838	( )			18-6				6-9			+		+
8	9		839	( )			17-3				6-3			+		+
8	9		840	( )			16-2				5-9			+		+
8	17		841	□			1-4	13-8	1-4							
8	17		842	□			1-4	13-6	1-4							
8	17		843	□			1-4	13-1	1-4							
8	17		844	□			1-4	12-3	1-4							
8	17		845	□			1-4	11-1	1-4							
8	17		846	□			1-4	9-4	1-4							
4	17		447	□			0-8	2-6								
4	17		448	□			0-8	4-0	0-8							
4	17		449	□			0-8	3-10	0-8							
4	17		450	□			0-8	3-52	0-8							
4	17		451	□			0-8	2-82	0-8							
4	17		452	□			0-8	1-5	0-8							
7	9		753	( )			18-0				6-10			+		+
7	9		754	( )			17-3				6-6			+		+
7	9		755	( )			16-9				6-2			+		+
6	9		656	( )			17-0				6-10			+		+
6	9		657	( )			15-9				6-2			+		+
4	9		458	( )			16-6				6-10			+		+
4	9		459	( )			15-3				6-2			+		+
4	3		460	—			1-9	+	2-3					0-6	1-4	
4	3		461	—			2-3	+	2-3					0-6	1-4	
6	3		662	—			3-3	+	3-3					0-6	1-4	
4	17		463	□			0-8	5-6								
3	T2		364	□		+	0-4	0-8	+	+				+		
4	20		465	□			1-4	0-6	1-4							
4	17		466	□			0-10	3-8	0-10							
4	17		467	□			0-10	3-0	0-10							
3	17		368	□			0-6	2-6								
4	17		469	□			0-8	2-8								
4	17		470	□			2-8	1-8	2-8							
3	T2		371	□		+	0-6	2-8	+	+				+		
6	20		672	□			4-0	2-6	4-0							
6	3		673	—			3-0	+	4-0					2-10	10-9	
6	3		674	—			3-0	+	5-6					2-6	9-3	
4	17		475	□			1-4	2-2								
3	T2		376	□		+	1-8	1-8	+	+				+		
4	3		477	—			1-0	+	1-0					0-3 1/2	1-0	
4	3		478	—			1-0	1-0						0-3 1/2	+	
4	17		479	□			0-8	3-6								
4	17		480	□			1-0	2-4								

CORNER BAR SCHED.		NK.	QTY.	BAR	NK.	QTY.	BAR
CB1	ONE	6(7105) 3EF TOP 4(6106) 2MID. BOT. 33(4107) MATCH HR.	ONE	4(6106) 2T/B 2(4107) 1EF, M.	CB12	ONE	6(6106) 2T, M, B. 18(4107) 9EF
CB2	ONE	6(7105) 3EF (T.) 4(6106) 2M/B. 22(4107) 1EF	2	6(7105) 3T/B 7(4107) 3EF / 1 MATCH 2(530) CURB	CB13	4	4(6109) 1F 4(6110) 0F 6(4111) 1F ALT. 6(4112) 0F (4).
CB3	2	8(6106) 2EF TOP 2 MID. BOT. 12(4107) 1EF	ONE	6(8108) 3T/B 5(4107) 2EF, 1 MATCH 2(530) CURB	CB9	ONE	6(6106) 2T, M, B 12(4107) 6EF
CB4	ONE	6(6106) 2T, M, B. 20(4107) 10EF	ONE	6(8108) 3T/B 5(4107) 2EF, 1 MATCH 2(530) CURB	CB10	2	8(6106) 2T, M, B 12(4107) 6EF
CB5	ONE	6(6106) 5(4107) 2(530)	2	6(6106) 2T, M, B 3(4107) MID.	CB11	2	6(6106) 2T, M, B 3(4107) MID.

COL. SCHEDULE (RE: "A")				
NK.	QTY.	ELEV. TOP to BOT.	VERT.	TIES TO TOP DWLS.
1	1	5428.00 5417.92	6# 5 x 9-11	15(311) 6# 5 x 3-8 DRILL & EPOXY
2	2	5432.00 5417.92	6# 5 x 13-11	20(311) 6# 5 x 3-8 D. & E.
3	2	5432.00 5418.00	6# 5 x 13-10	20(311) 6# 5 x 3-8 D. & E.
4	ONE	5432.00 5421.33	6# 5 x 10-6	16(311) 6# 5 x 3-8 D. & E.
5	ONE	5433.43 5421.33	6# 5 x 11-11	17(311) 6# 5 x 3-8 D. & E.



NOTE: REF. P11  
BALANCE OF  
BENDINGS ...

(8bd) (3bd)  
TOP LAP (OTHER)  
1-6-#3-1-3  
2-0-4-1-7  
2-6-5-2-0  
3-0-6-2-5  
3-6-7-2-10  
4-0-8-3-2  
4-7-9-3-7  
5-1-10-4-0  
5-6-11-4-5

OK DWLS.  
DRILL & EPOXY

LEGEND  
O.F. - OUTSIDE FACE  
I.F. - INSIDE FACE  
E.F. - EACH FACE  
HORIZ. - HORIZONTAL  
VERT. - VERTICAL  
DWLS - DWELS  
FTG. - FOOTING  
ELEV. - ELEVATION  
E.W. - EACH WAY  
T.O.F. - TOP OF FOOTING  
B.O.F. - BOTTOM OF FOOTING  
T.O.W. - TOP OF WALL  
B.O.W. - BOTTOM OF WALL  
GRD. BM. - GRADE BEAM  
MK. - MARK  
MAS. - MASONRY  
DIAG. - DIAGONAL  
COL. - COLUMN  
PROJ. - PROJECTION  
T & B - TOP & BOTTOM  
N.F. - NEAR FACE  
F.F. - FAR FACE  
% - ON CENTER  
@ - AT EACH

REINFC. IS A615, GRD. 60 TYP.

10/20 ADDED NOTES PER ENGR'S. REQUEST

8/31 APPROV. FOR CONST.

3/11 REVISE & RESUBMIT

NO DATE ISSUED FOR

**DALCO** INDUSTRIES, INC.  
An Employee Owned Company

AREA CODE 303 371-3950 3730 SALEM ST. DENVER, CO. 80239

JOB HAROLD D. THOMPSON REG. WATER RECLAIM.

LOCATION FOUNTAIN, Co.

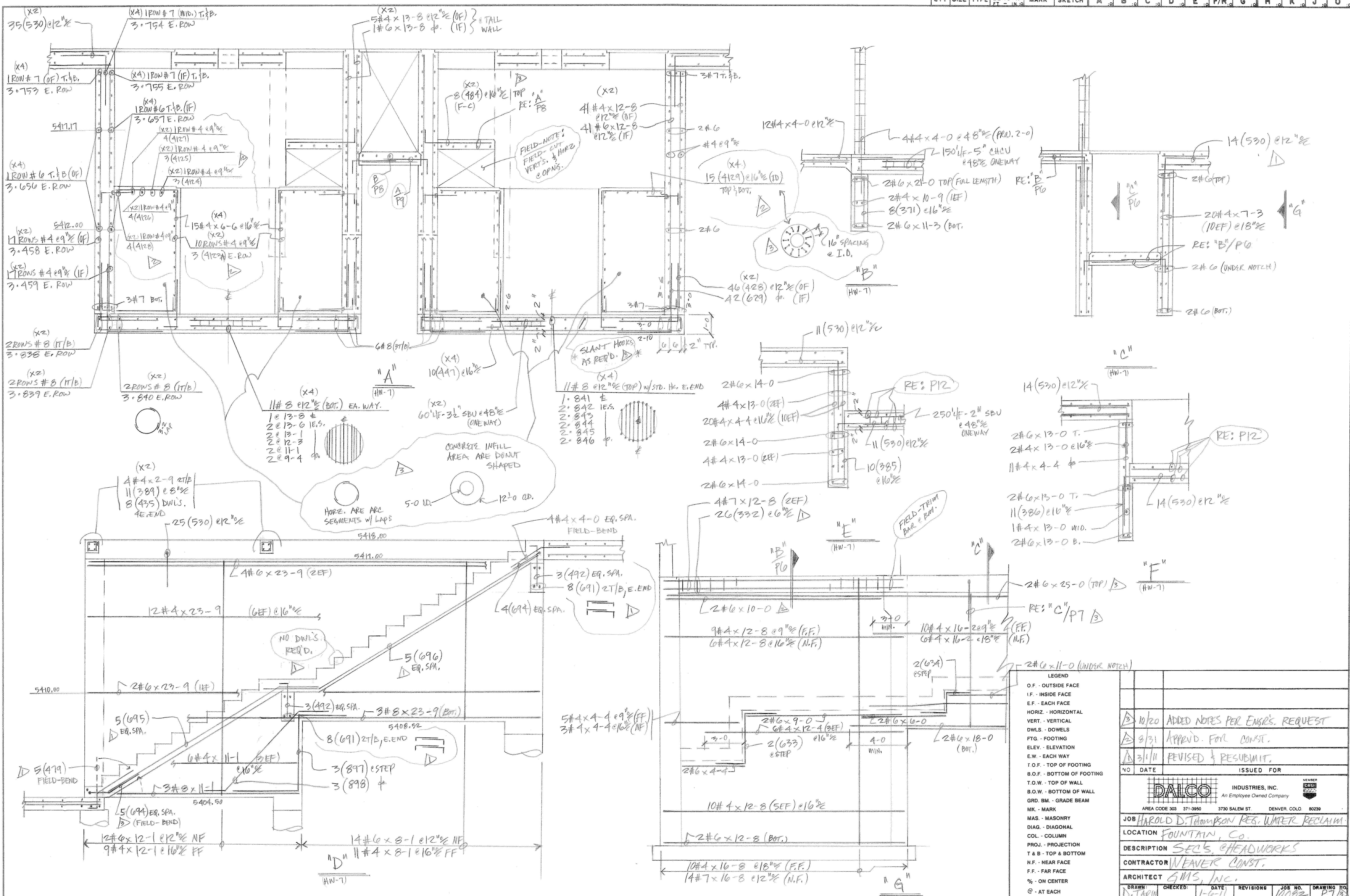
DESCRIPTION PLAN & HEADWORKS

CONTRACTOR WEAVER CONST.

ARCHITECT GMS, Inc.

DRAWN: D. TARIN CHECKED: DATE: 1-6-11 REVISIONS: JOB NO. 10082 DRAWING NO. P5/2



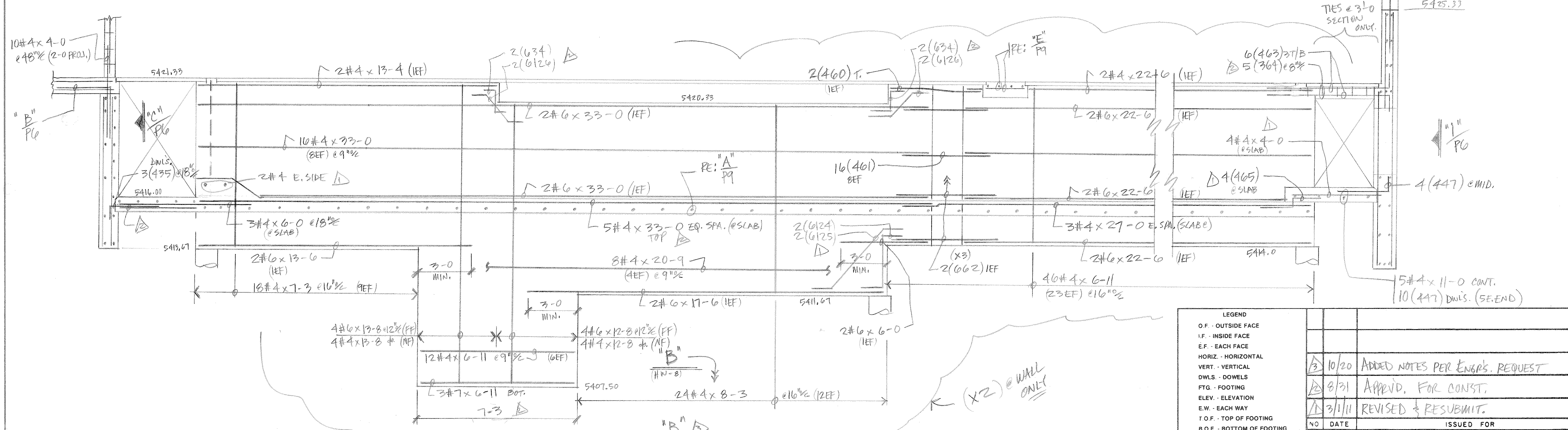
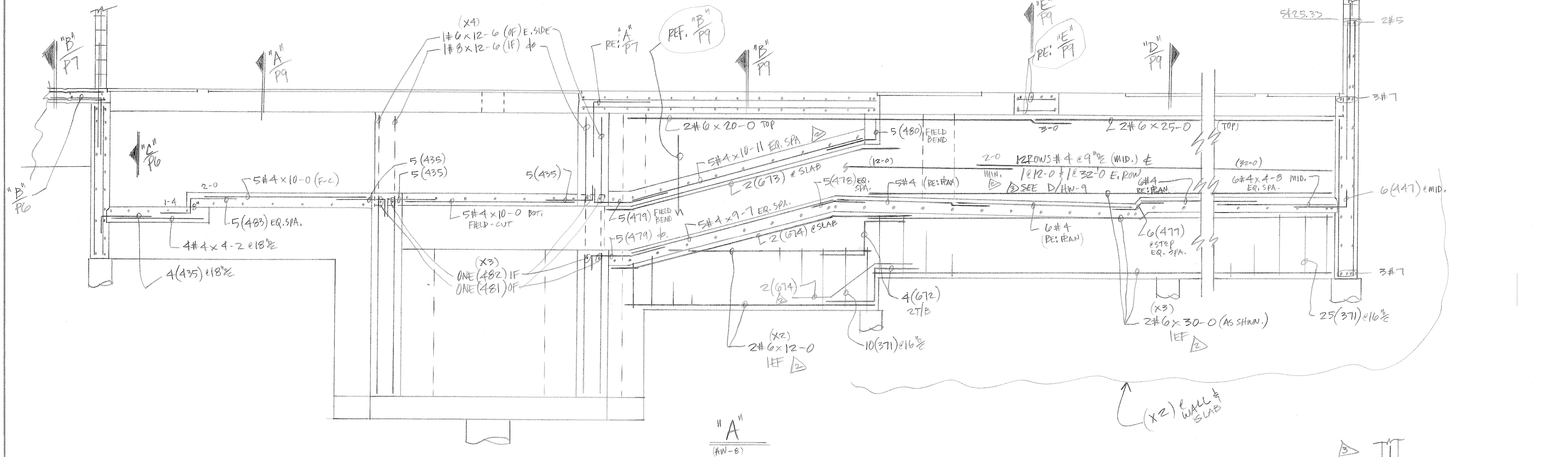


LEGEND

- O.F. - OUTSIDE FACE
- I.F. - INSIDE FACE
- E.F. - EACH FACE
- HORIZ. - HORIZONTAL
- VERT. - VERTICAL
- DWLS. - DOWELS
- FTG. - FOOTING
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- N.F. - NEAR FACE
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- % - ON CENTER
- @ - AT EACH

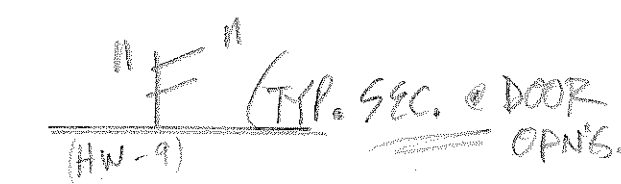
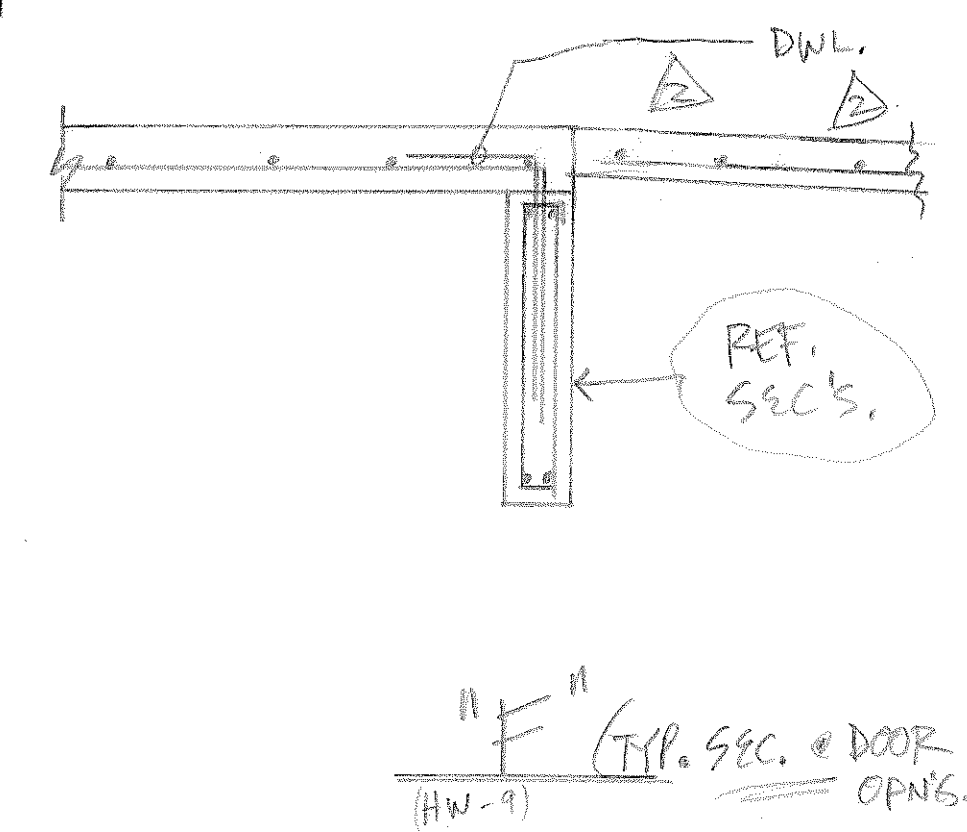
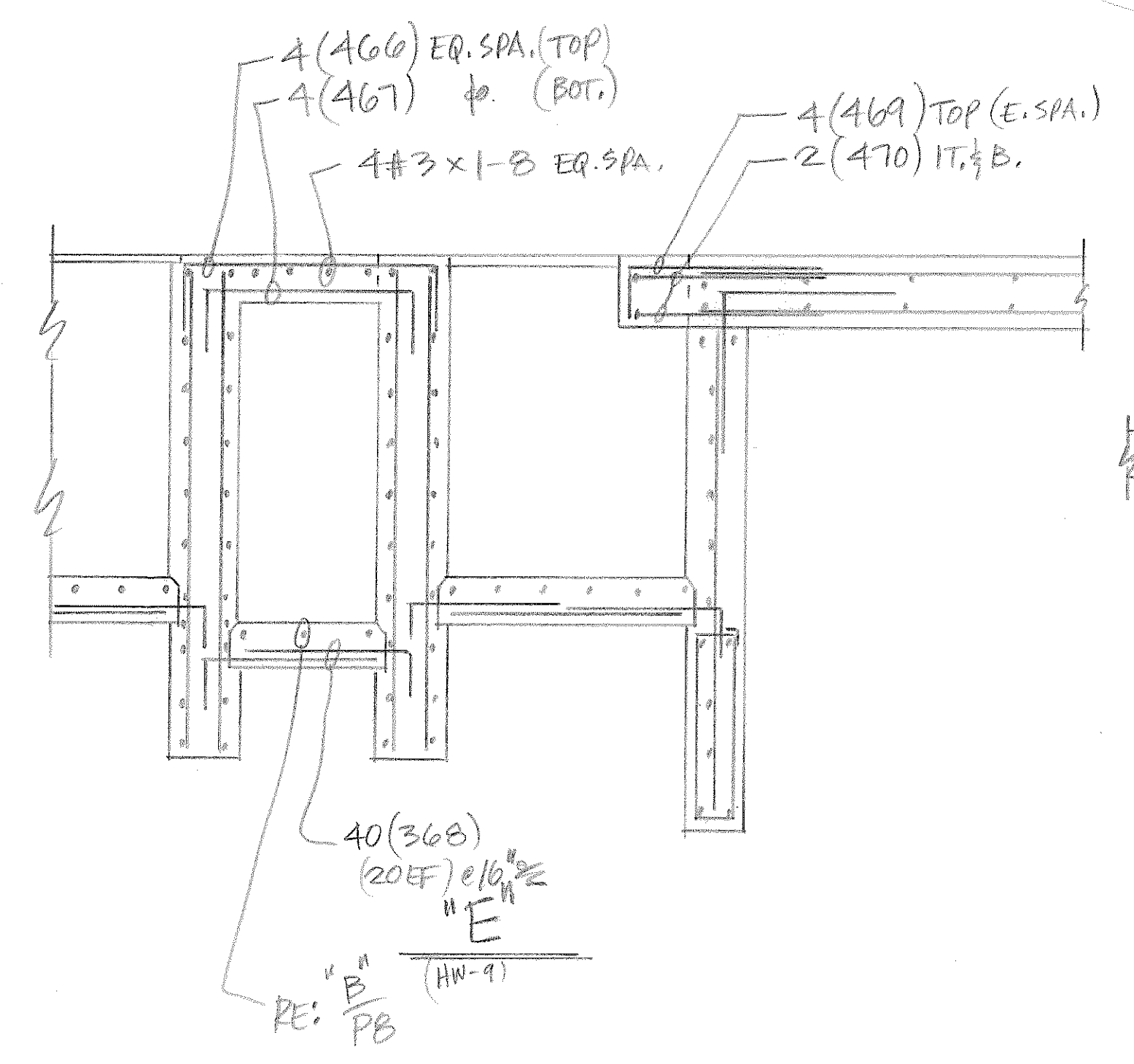
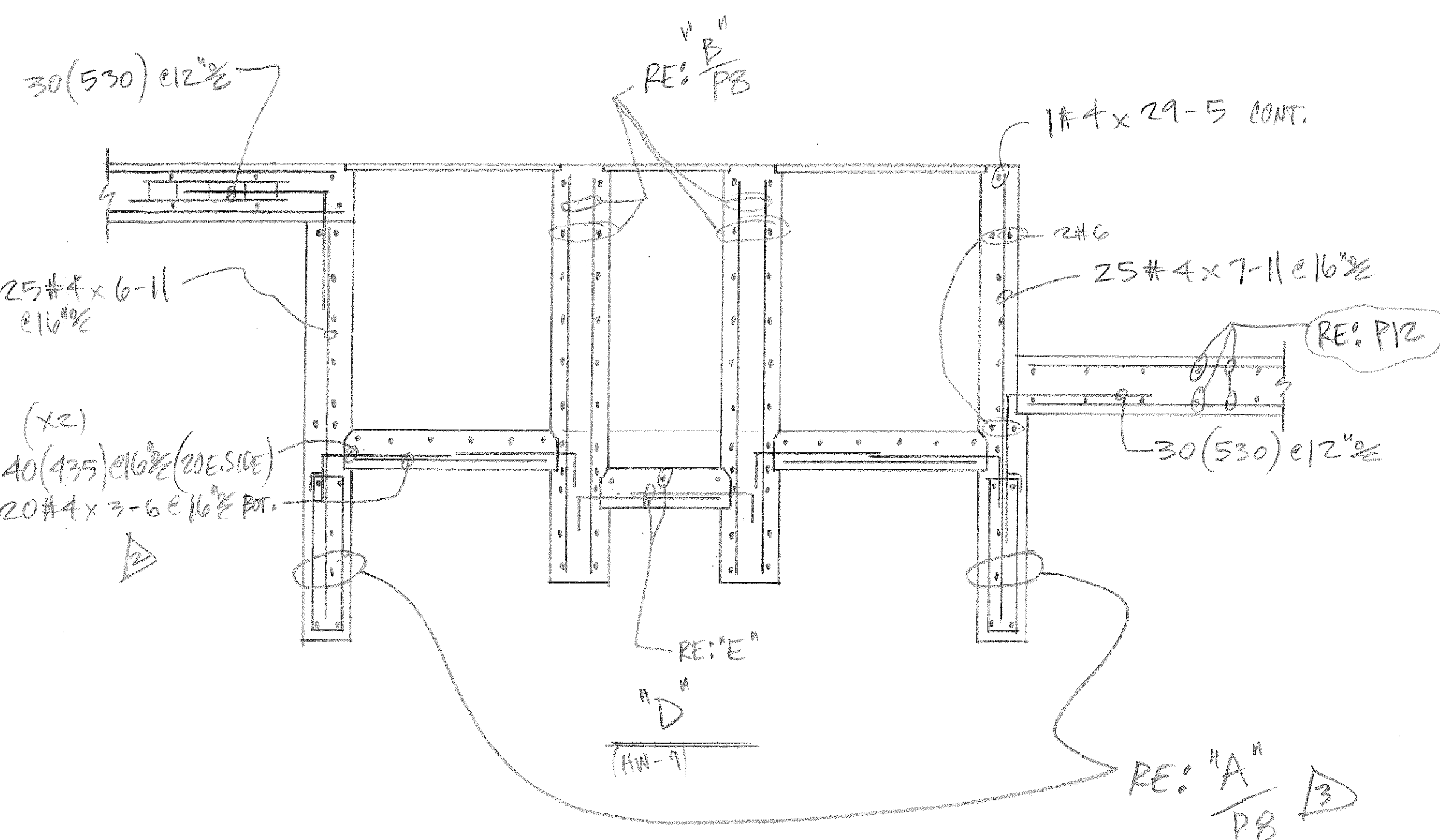
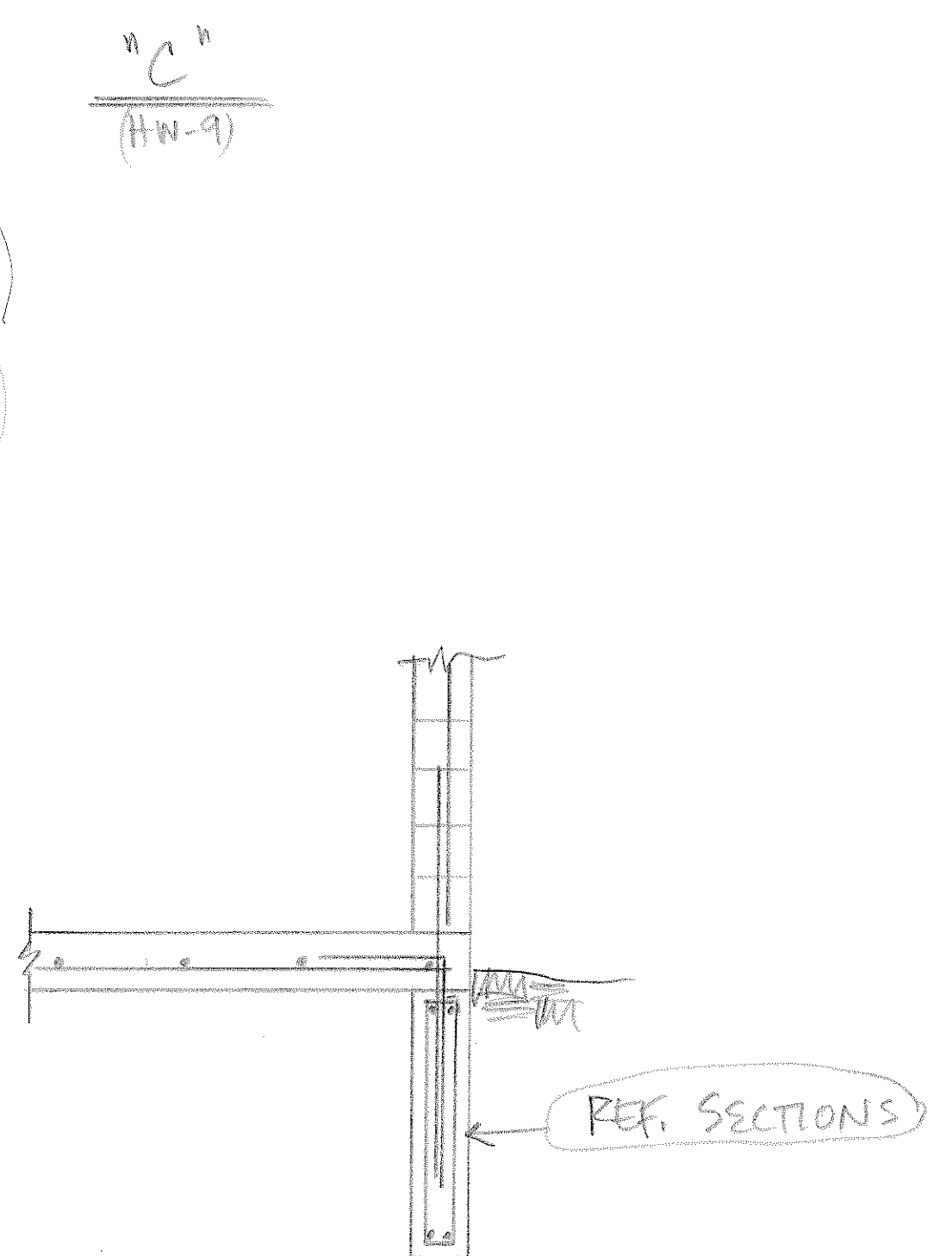
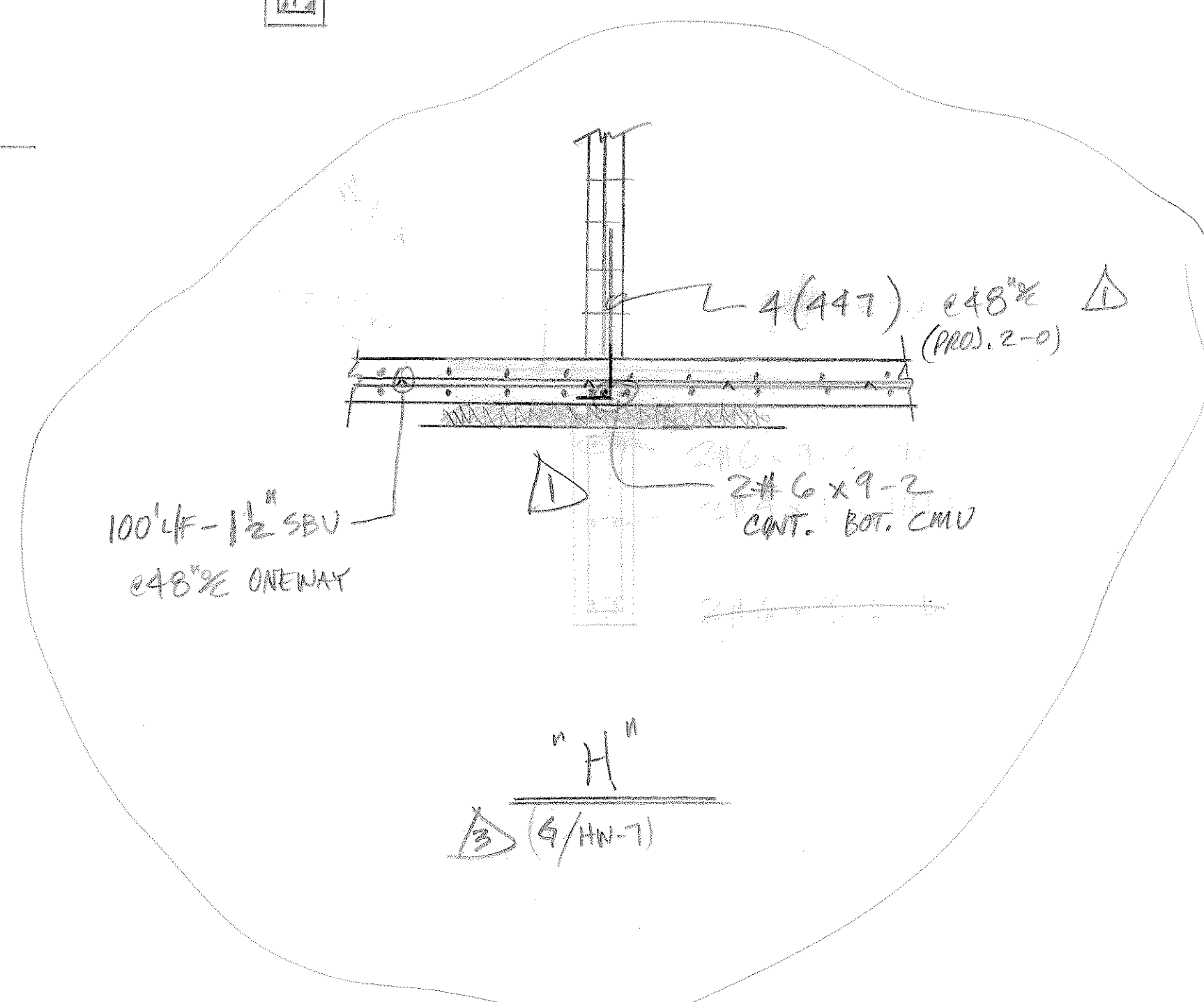
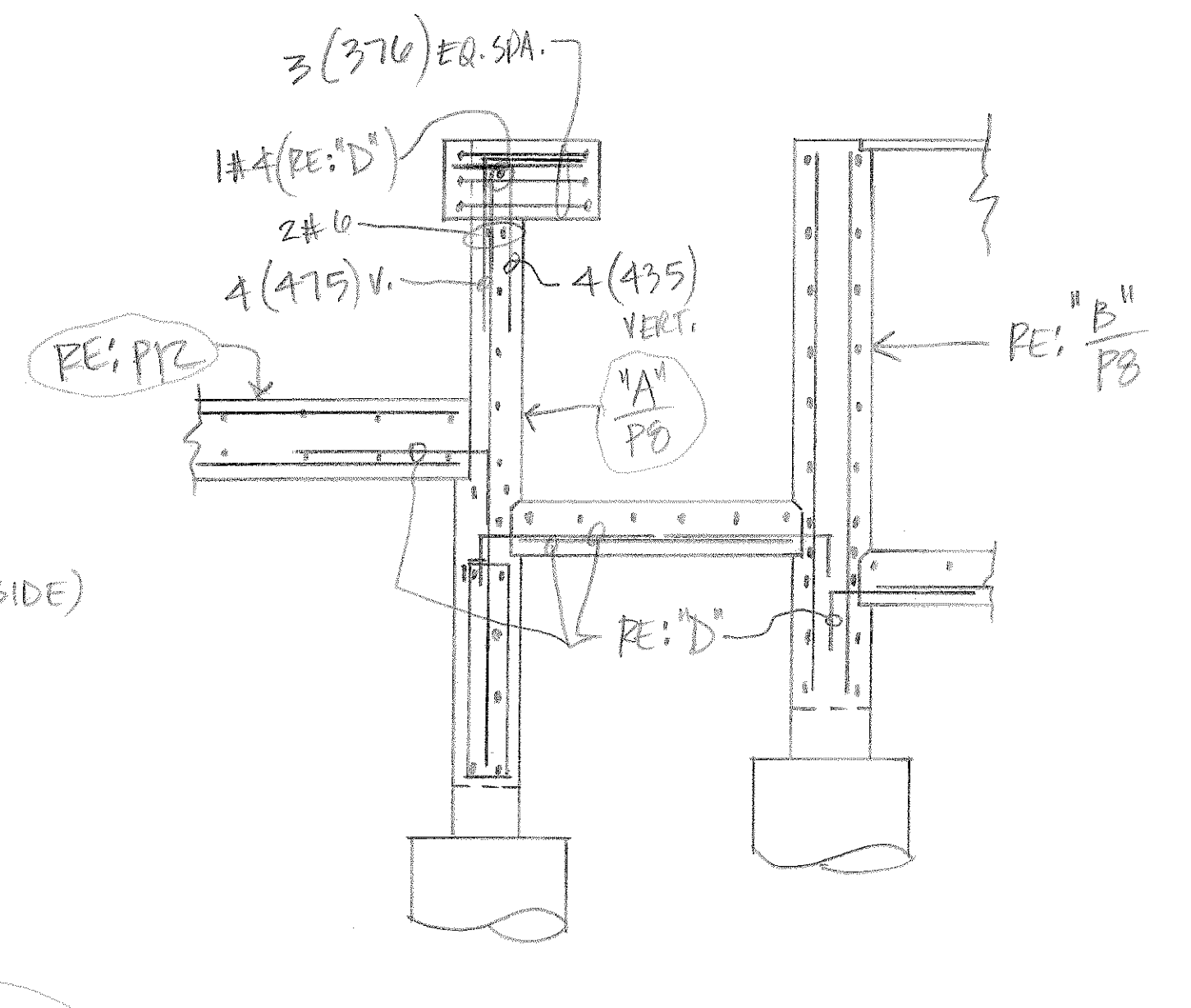
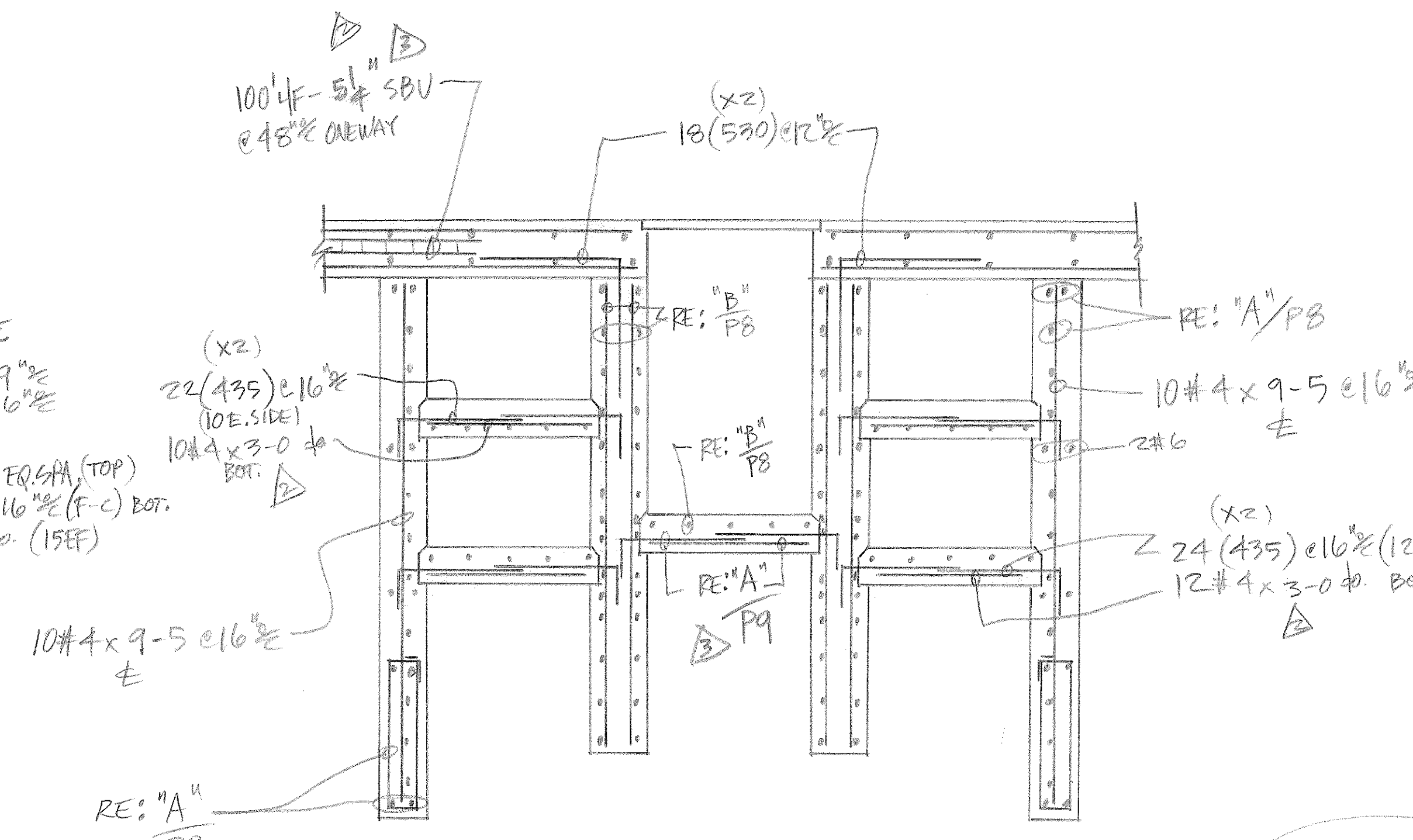
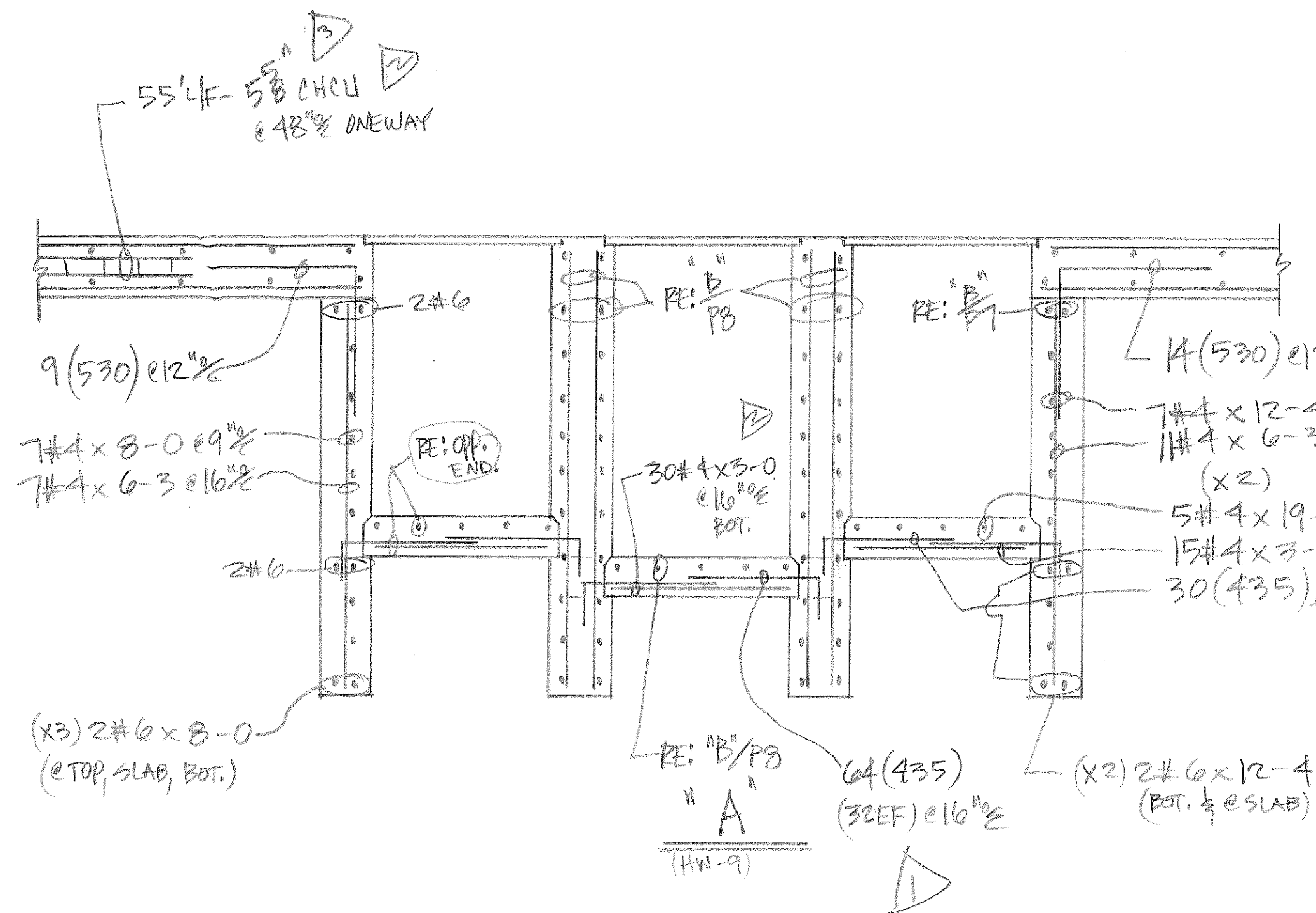
NO	DATE	ISSUED FOR
3	10/20	ADDED NOTES PER ENGR'S. REQUEST
4	8/31	APPROV. FOR CONST.
5	3/11	REVISED & RESUBMIT.

AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80239					
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.					
LOCATION FOUNTAIN, CO.					
DESCRIPTION SEC'S. @ HEADWORKS					
CONTRACTOR NEAVER CONST.					
ARCHITECT GMS, INC.					
DRAWN:	CHECKED:	DATE:	REVISIONS:	JOB NO.:	DRAWING NO.:
D. TARRIN		1-6-11		10082	P7/B



- LEGEND
- O.F. - OUTSIDE FACE
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  - E.F. - EACH FACE
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  - PROJ. - PROJECTION
  - T & B - TOP & BOTTOM
  - N.F. - NEAR FACE
  - F.F. - FAR FACE
  - % - ON CENTER
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NO	DATE	ISSUED FOR
AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80239		
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.		
LOCATION FOUNTAIN, CO.		
DESCRIPTION SEC'S. @ HEADWORKS		
CONTRACTOR WEAVER CONST.		
ARCHITECT GMS, INC.		
DRAWN	CHECKED	DATE
D. TARN		1-6-11
REVISIONS	JOB NO.	DRAWING NO.
	10082	P8/8



LEGEND

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INDUSTRIES, INC.  
An Employee Owned Company

AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80239

JOB HAROLD D. THOMPSON RES. WATER RECLAIM.

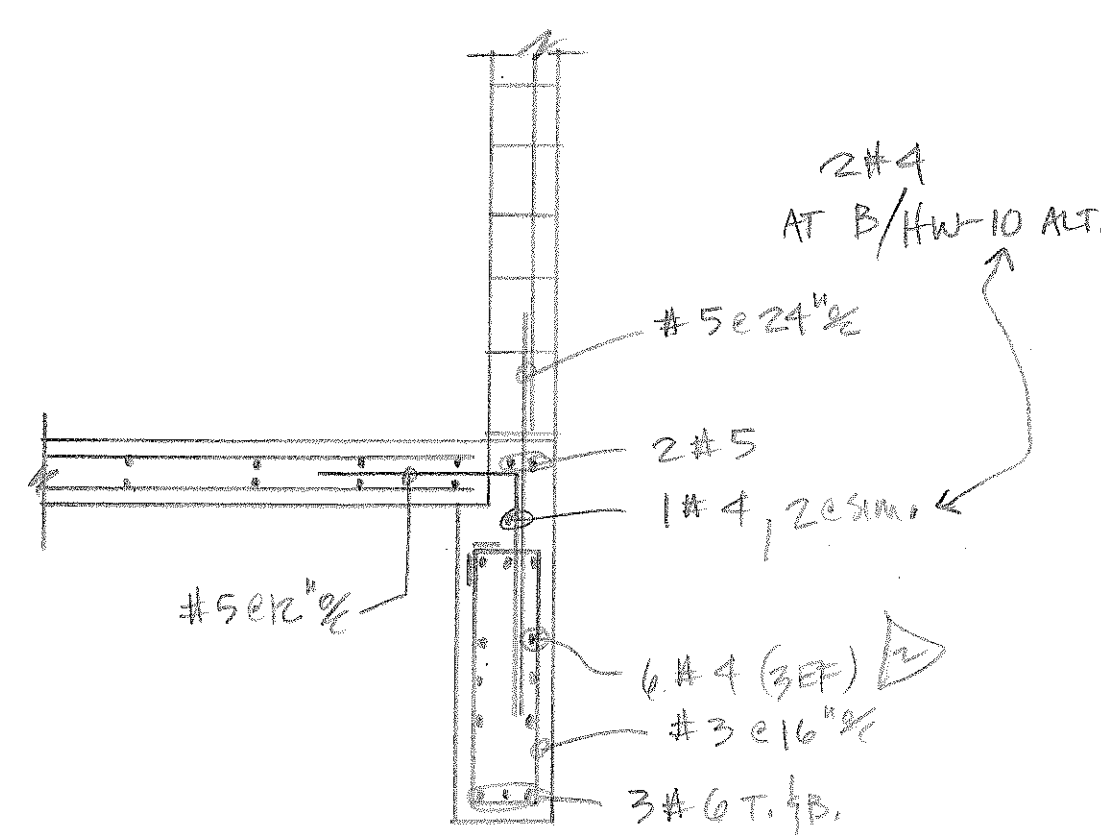
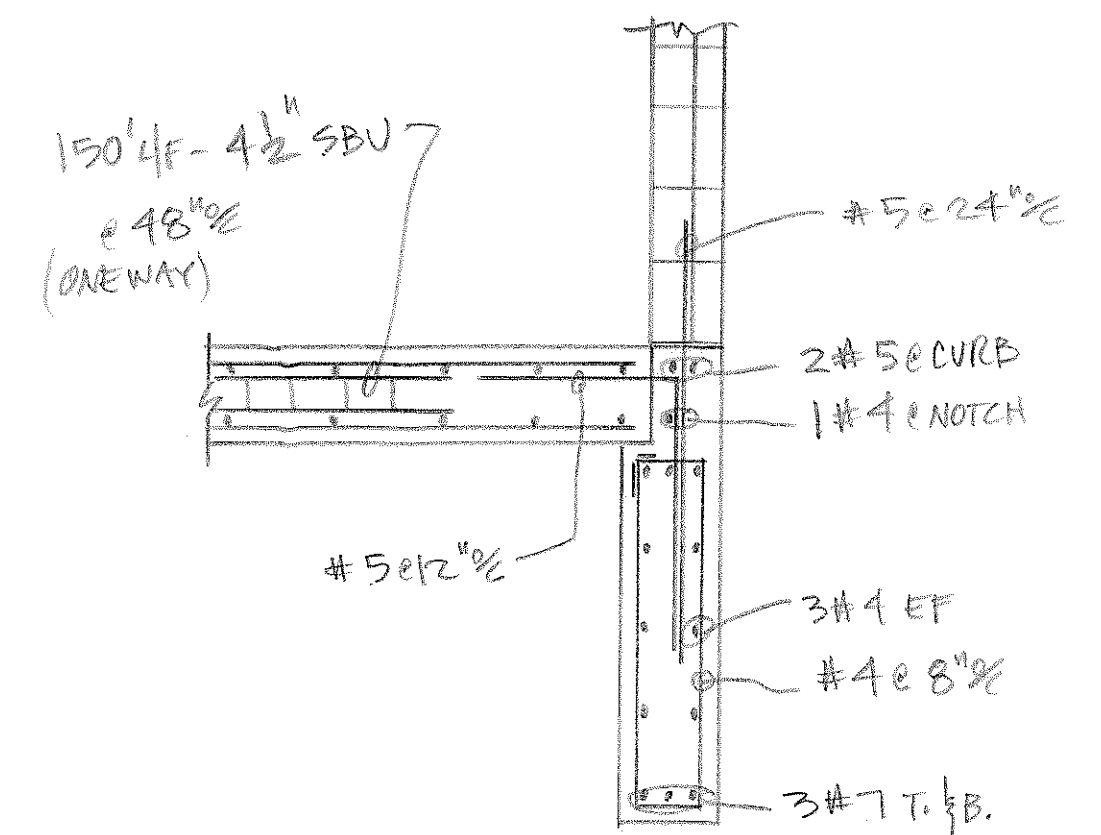
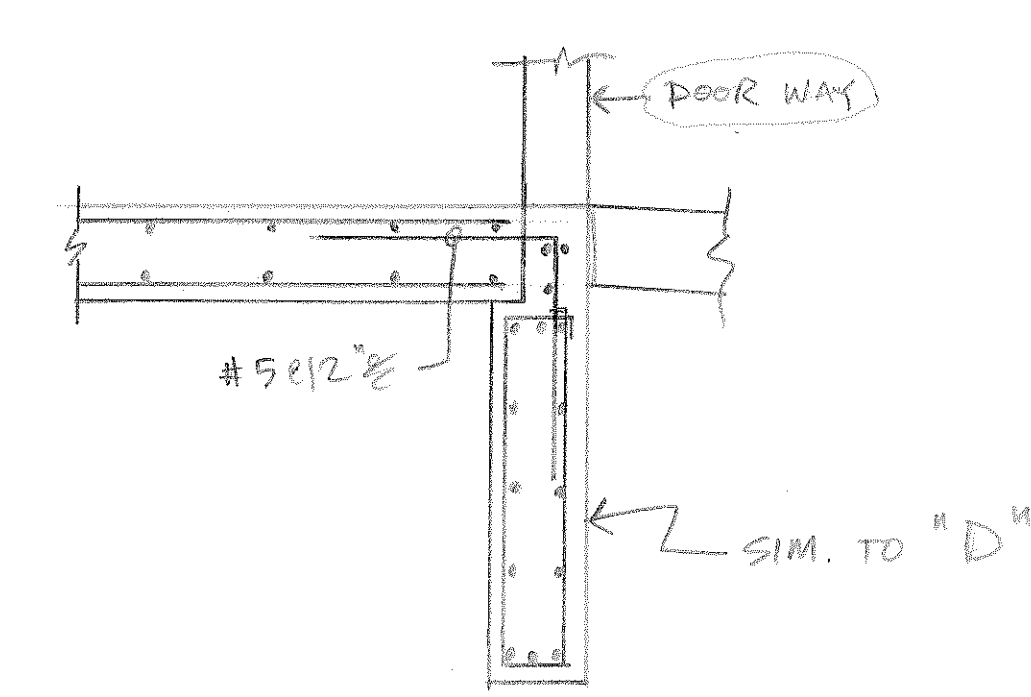
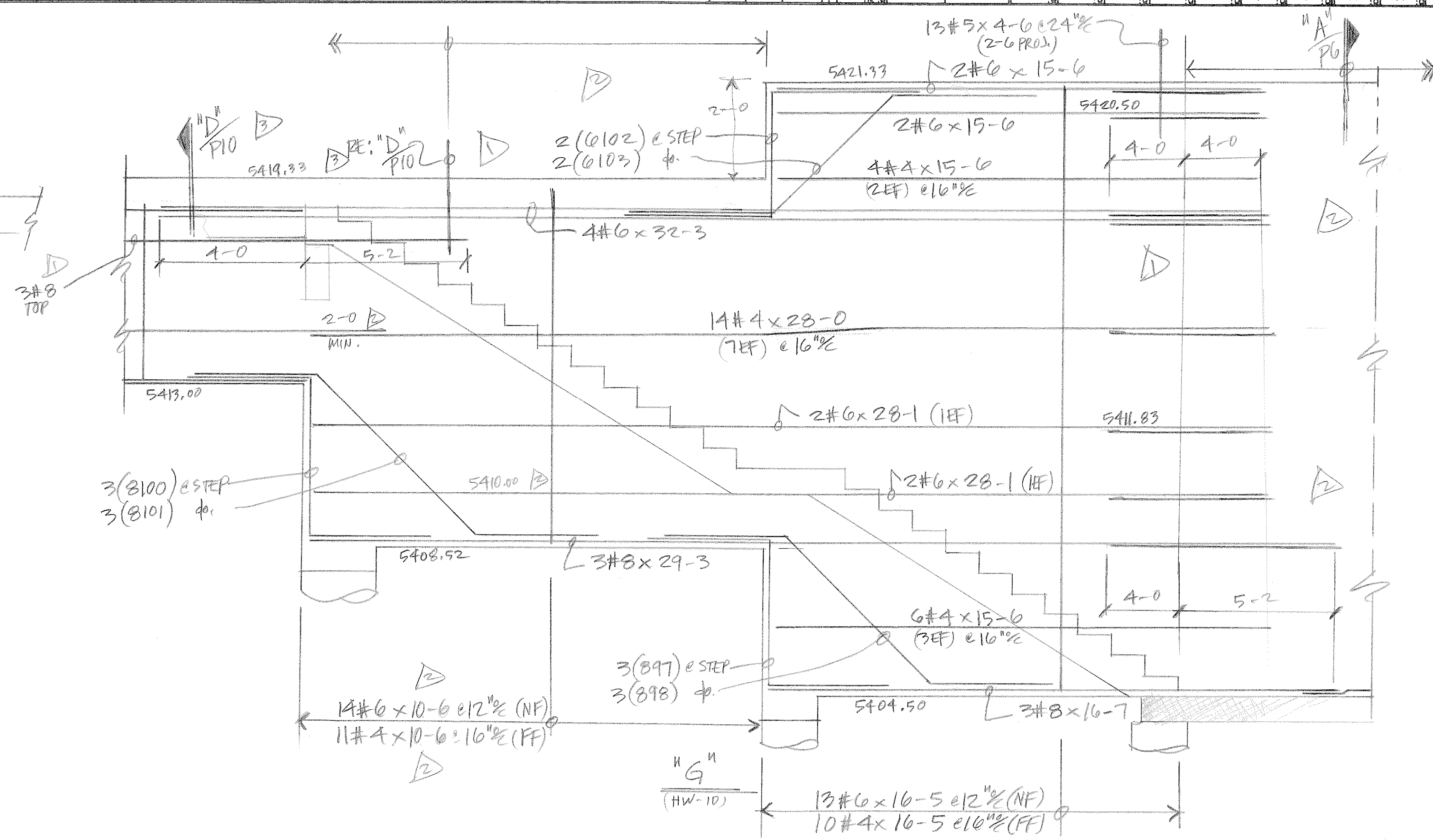
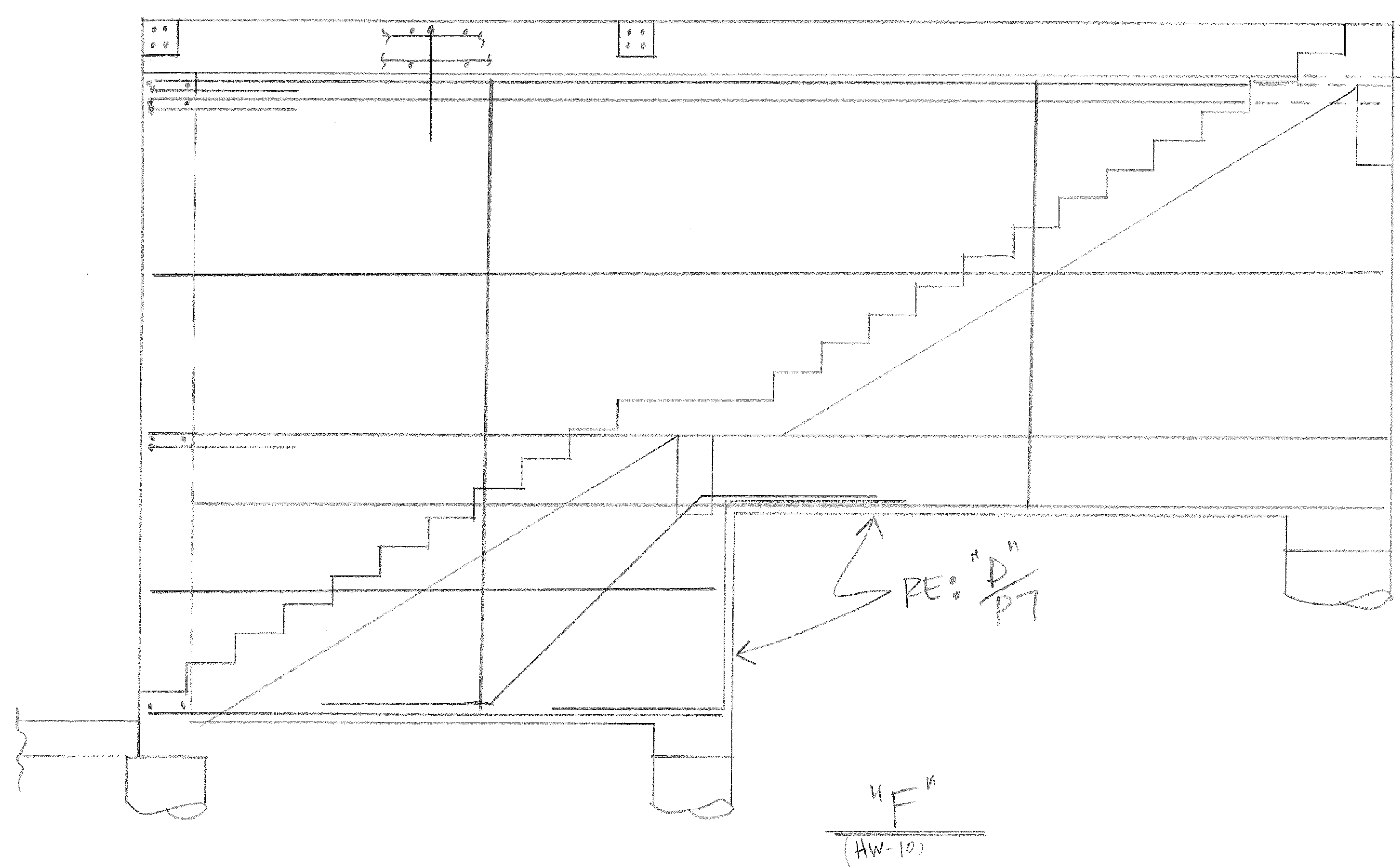
LOCATION FOUNTAIN CO.

DESCRIPTION SECS. & HEADWORKS

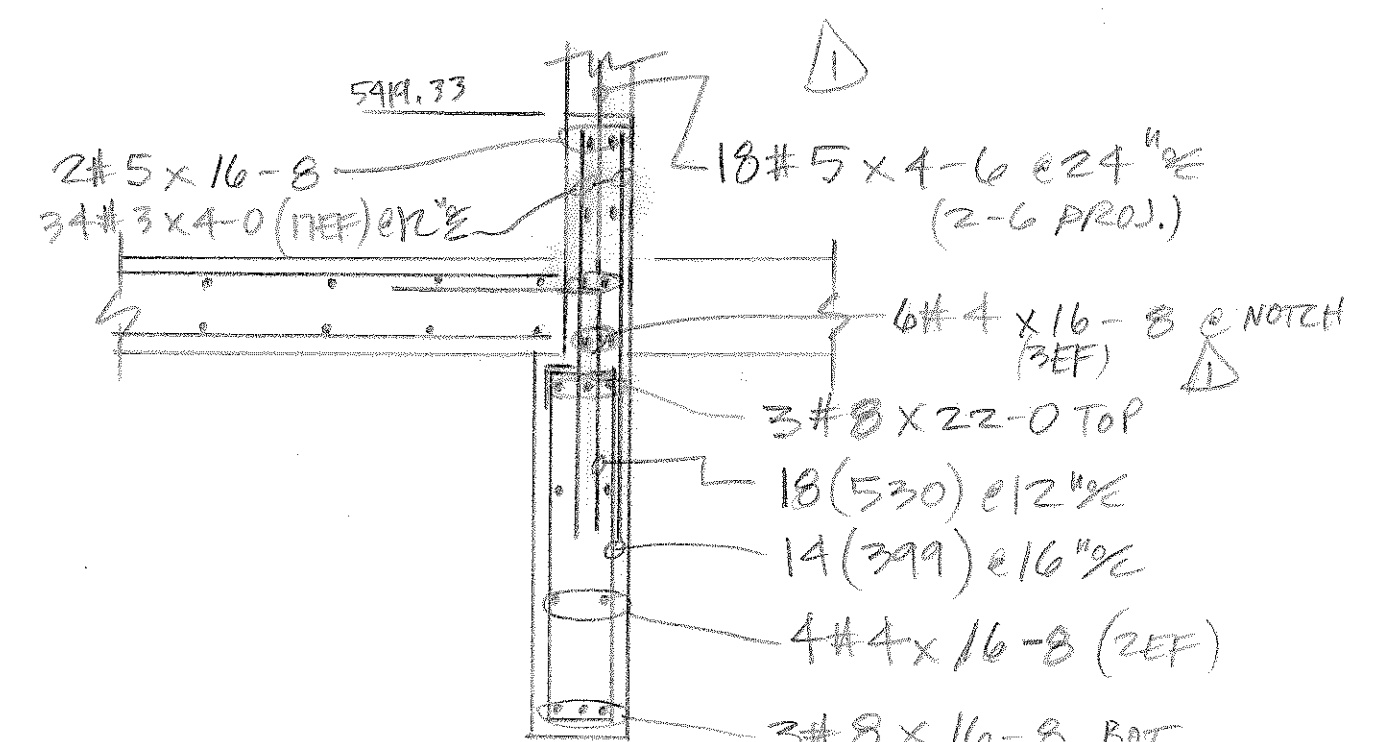
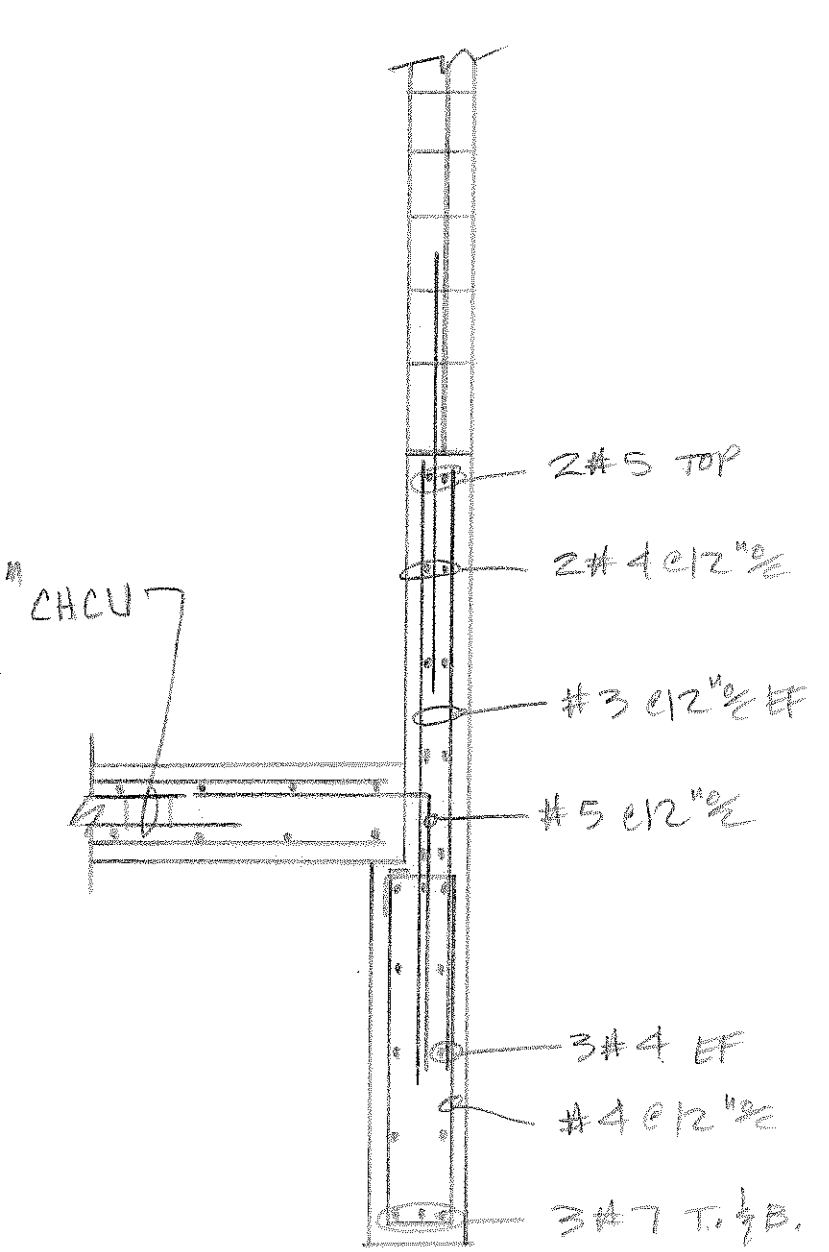
CONTRACTOR WEAVER CONST.

ARCHITECT GMS, INC.

DRAWN: D. TARIN CHECKED: DATE: 1-6-11 REVISIONS: JOB NO. 100892 DRAWING NO. P9



70' LF - 5" CHCU @ 48" ONEWAY



"A"  
(HW-10)

"B"  
(HW-10)

"C"  
(HW-10)

"D"  
(HW-10)

"E"  
(HW-10)

LEGEND	
O.F.	OUTSIDE FACE
I.F.	INSIDE FACE
E.F.	EACH FACE
HORIZ.	HORIZONTAL
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GRD. BM.	GRADE BEAM
MK.	MARK
MAS.	MASONRY
DIAG.	DIAGONAL
COL.	COLUMN
PROJ.	PROJECTION
T & B.	TOP & BOTTOM
N.F.	NEAR FACE
F.F.	FAR FACE
%	ON CENTER
@	AT EACH

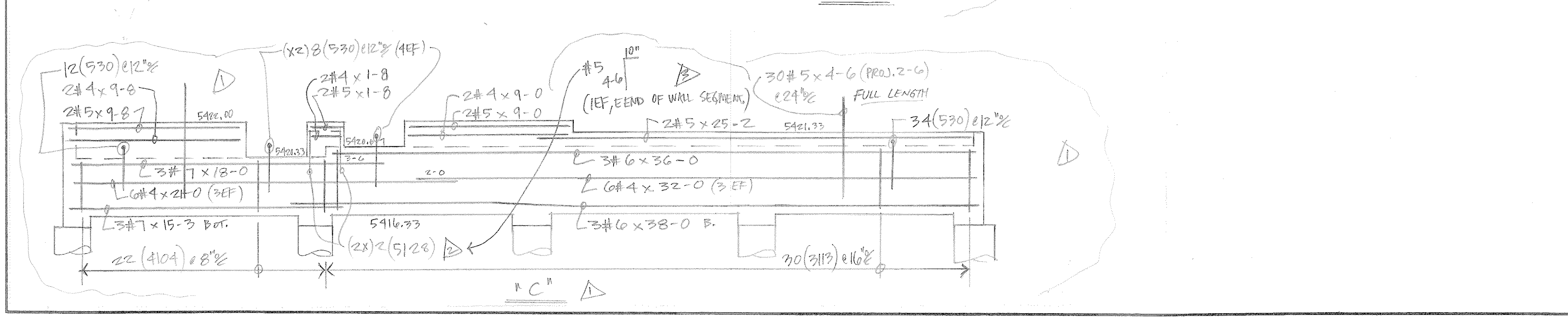
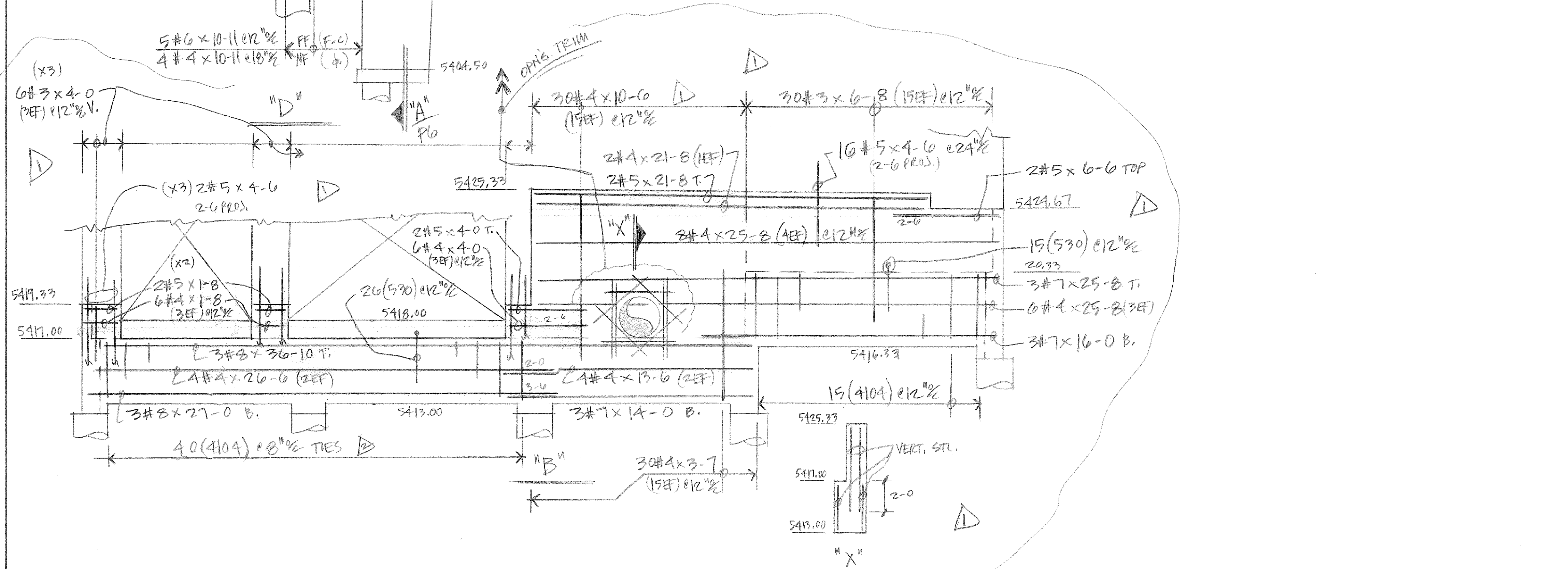
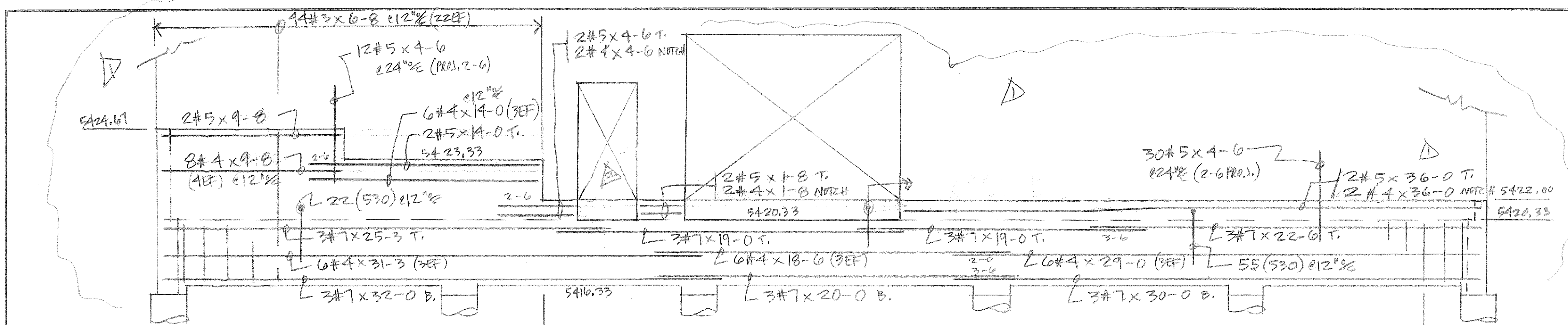
  

NO	DATE	ISSUED FOR
10/20		ADDED NOTES PER ENGR'S REQUEST
8/31		APPRVD. FOR CONST.
3/11/11		REVISE & RESUBMIT

<b>DALCO</b> INDUSTRIES, INC.		MEMBER
An Employee Owned Company		CRSI
AREA CODE 303 371-3950	3730 SALEM ST.	DENVER, COLO. 80239
JOB HAROLD D. THOMPSON RES. WATER RECLAIM.		
LOCATION FOUNTAIN CO.		
DESCRIPTION SEC 5.6 HEADWORKS		
CONTRACTOR WEAVER CONST.		
ARCHITECT GWS, INC.		
DRAWN: D. TARRIN	CHECKED: [ ]	DATE: 1-6-11
REVISIONS	JOB NO. 10092	DRAWING NO. P103





QTY	SIZE	TYPE	LENGTH FT. - IN.	MARK	SKETCH	A	B	C	D	E	F/R	G	H	K	J	O
4	9		181	—	6-6						6-10					+
4	9		182	—	6-6						6-2					+
4	20		183	—	1-4 0-8 2-0											
4	17		184	—	0-8 3-8											
3	12		385	□	+ 0-8 2-8 + +											+
3	12		386	□	+ 0-4 2-8 + +											+
4	20		487	—	2-0 1-0 2-0											
4	20		488	—	2-0 2-8 2-0											
3	12		389	□	+ 0-4 0-4 + +											+
4	17		190	—	0-8 7-0											
6	17		691	—	1-0 3-4											
4	17		192	—	0-8 1-10											
3	17		393	—	0-6 2-0											
6	17		694	—	1-0 5-0											
6	3		695	—	10-6 2-0									1-0		+
6	3		696	—	13-3 2-9									1-5		+
8	20		897	—	3-4 4-0 3-4											
8	3		898	—	3-4 5-8 3-4											+
3	12		399	□	+ 0-8 3-8 + +											+
8	20		8100	—	3-4 4-6 3-4											+
8	3		8101	—	3-4 6-4 3-4											+
6	20		6102	—	4-0 3-4 4-0											+
6	3		6103	—	4-0 4-8 4-0											+
4	12		4104	□	+ 0-8 3-8 + +											+
7	17		7105	—	3-6 3-6											
6	17		6106	—	3-0 3-0											
4	17		4107	—	2-0 2-0											
8	17		8108	—	4-0 4-0											
6	3		6109	—	3-0 3-0									2-7		+
6	30		6110	—	3-0 3-0									2-7		+
4	3		4111	—	2-0 2-0									1-9		+
4	30		4112	—	2-0 2-0									1-9		+
3	12		3113	□	+ 0-8 4-0 + +											+
4	9		4123	—	10-6						2-8					+
6	20		6124	—	4-0 2-4 4-0											
6	3		6125	—	4-0 + 4-0									2-4		+
6	3		6126	—	4-0 + 4-0									1-0		+
6	3		6127	—	4-0 + 4-0									2-8		+
5	17		5128	—	0-10 4-6											

LEGEND  
O.F. - OUTSIDE FACE  
I.F. - INSIDE FACE  
E.F. - EACH FACE  
HORIZ. - HORIZONTAL  
VERT. - VERTICAL  
DWLS. - DOWELS  
FTG. - FOOTING  
ELEV. - ELEVATION  
E.W. - EACH WAY  
T.O.F. - TOP OF FOOTING  
B.O.F. - BOTTOM OF FOOTING  
T.O.W. - TOP OF WALL  
B.O.W. - BOTTOM OF WALL  
GRD. BM. - GRADE BEAM  
MK. - MARK  
MAS. - MASONRY  
DIAG. - DIAGONAL  
COL. - COLUMN  
PROJ. - PROJECTION  
T & B - TOP & BOTTOM  
N.F. - NEAR FACE  
F.F. - FAR FACE  
% - ON CENTER  
@ - AT EACH

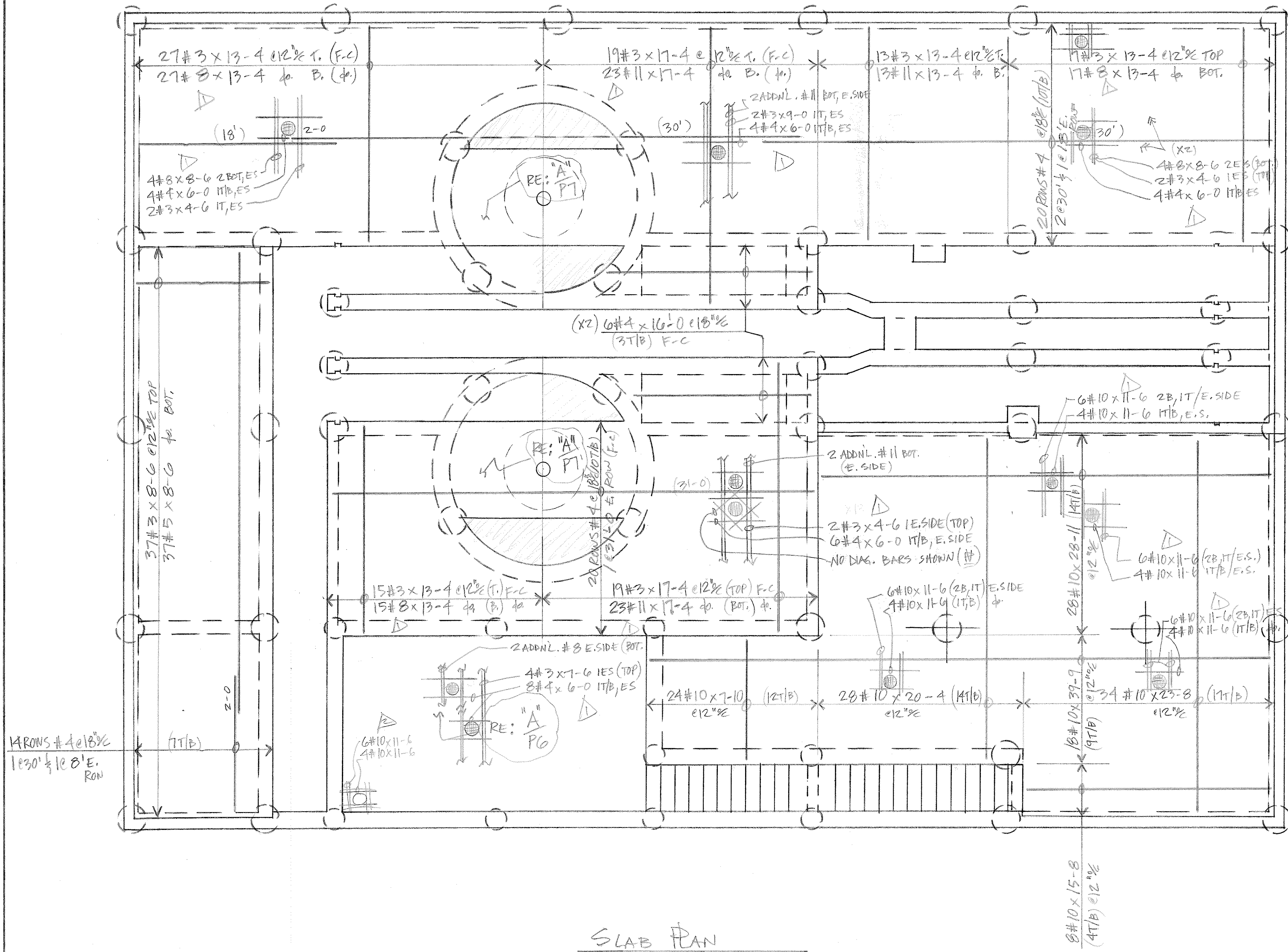
10/20 ADDED NOTES PER ENGR'S. REQUEST  
8/31 APPR'D. FOR CONST.  
3/11 REVISED & RESUBMIT

NO. DATE ISSUED FOR

**DALCO** INDUSTRIES, INC.  
An Employee Owned Company  
AREA CODE 303 371-3950 3730 SALEM ST. DENVER, COLO. 80239

JOB HAROLD D. THOMPSON RES. WATER RECLAIM.  
LOCATION FOUNTAIN CO.  
DESCRIPTION SECS. & ELEV. @ HEADWORKS  
CONTRACTOR WEAVER CONST.  
ARCHITECT GMS, INC.

DRAWN: D. TARIN CHECKED: DATE: 1-6-11 REVISIONS: JOB NO. 10082 DRAWING NO. P112



SLAB PLAN

PROVIDE FULL LENGTH  
#5, #8, 1/2 #11'S BOT.  
SLAB BARS - DO NOT SPICE

REF. WALL SECTIONS  
FOR BAR CHAIRS  
BTWN. WALLS...  
(TYP.)

(F.C.) = FIELD - CUT

LEGEND	
O.F.	OUTSIDE FACE
I.F.	INSIDE FACE
E.F.	EACH FACE
HORIZ.	HORIZONTAL
VERT.	VERTICAL
DWLS.	DOWELS
FTG.	FOOTING
ELEV.	ELEVATION
E.W.	EACH WAY
T.O.F.	TOP OF FOOTING
B.O.F.	BOTTOM OF FOOTING
T.O.W.	TOP OF WALL
B.O.W.	BOTTOM OF WALL
GRD. BM.	GRADE BEAM
MK.	MARK
MAS.	MASONRY
DIAG.	DIAGONAL
COL.	COLUMN
PROJ.	PROJECTION
T & B.	TOP & BOTTOM
N.F.	NEAR FACE
F.F.	FAR FACE
%	ON CENTER
@	AT EACH

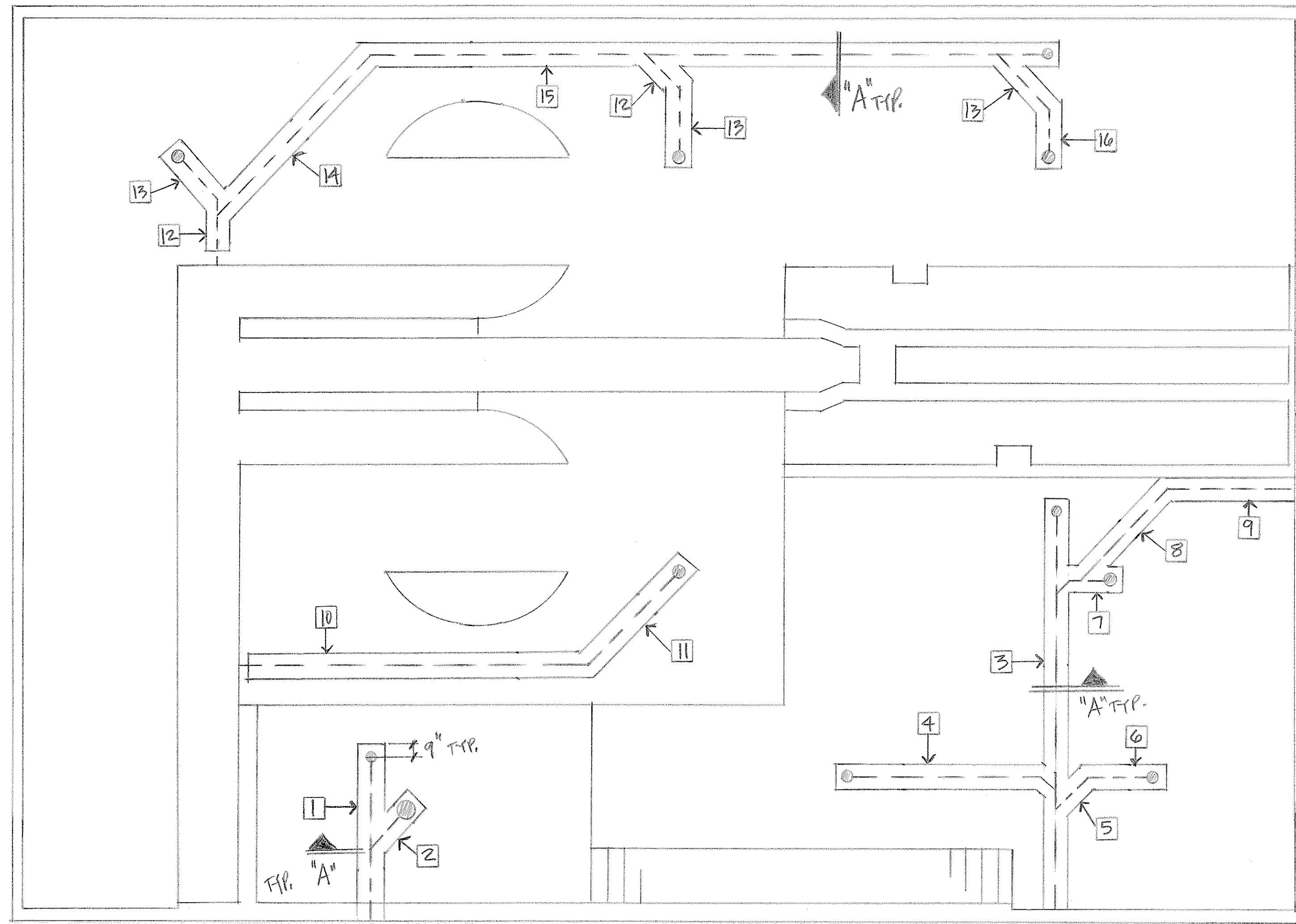
  

10/20	ADDED NOTES PER ENGR'S. REQUEST
8/31	APPROV. FOR CONST.
3/1/11	REVISED & RESUBMIT.

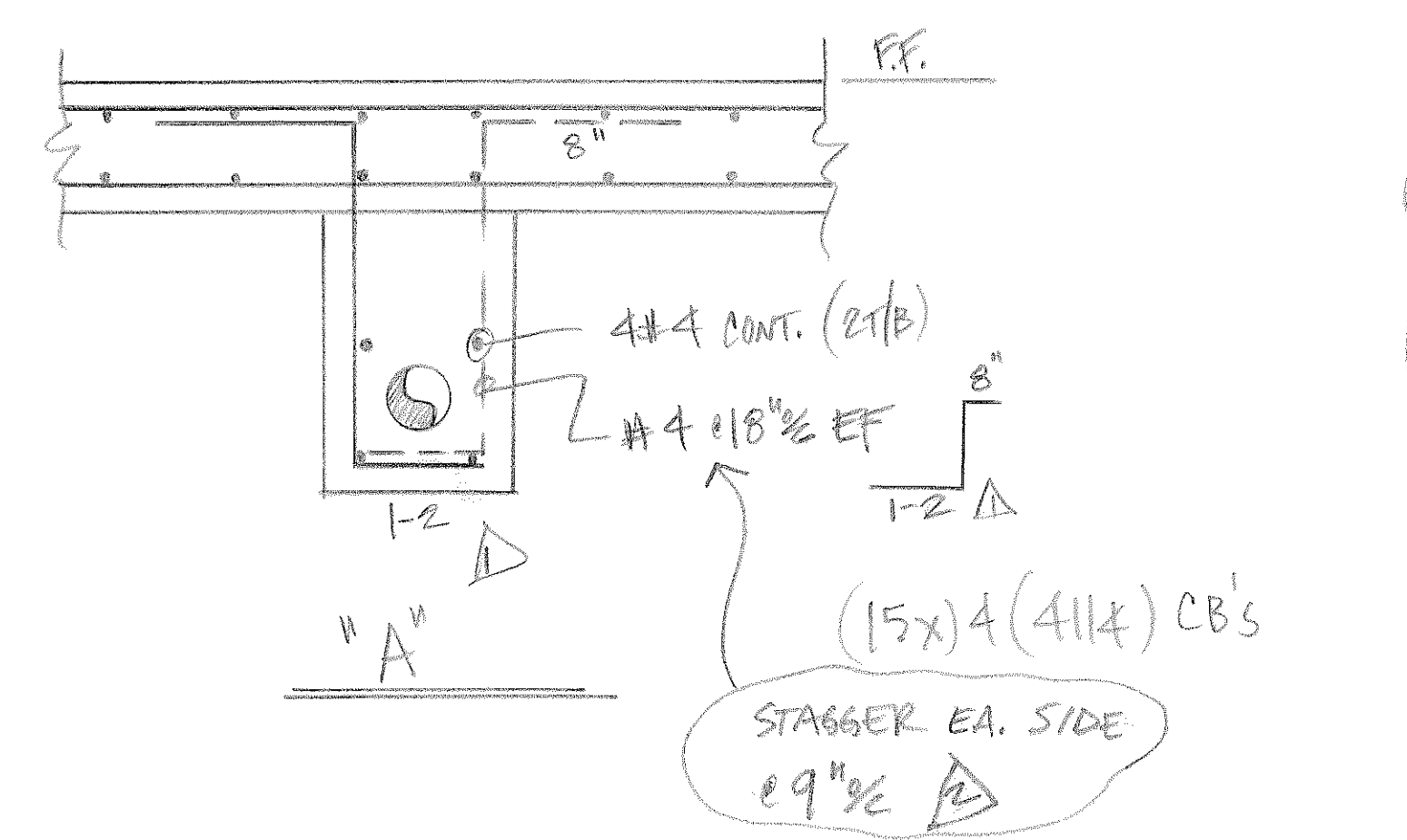
NO.	DATE	ISSUED FOR
AREA CODE 303 371-3950 3730 SALEM ST. DENVER, CO. 80239		
JOB HAROLD D. THOMPSON REG. WATER RECLAIM.		
LOCATION FOUNTAIN, Co.		
DESCRIPTION SLAB & HEADWORKS		
CONTRACTOR WEAVER CONST.		
ARCHITECT GMS, INC.		
DRAWN: D. TARIN	CHECKED:	DATE: 1-6-11
REVISIONS:	JOB NO. 10082	DRAWING NO. P12

QTY	SIZE	TYPE	LENGTH FT. - IN.	MARK	SKETCH	A	B	C	D	E	F/R	G	H	K	J	O
4	20		4 20	L			0-8	2-7	1-2							
4	20		4 21	L			0-8	3-10	1-2							
4	20		4 22	L			0-8	4-2	1-2							
3	T3		3 11	O				3-6				1-3				1-1
4	3		4 14	T			2-0	2-0					+	+		



PIPE ENCASUREMENT			
NK.	QTY.	(A) 4#4 CONT. (2T/B)	(B) 2#4 @ 18" (1EF)
1	ONE	4#4 x 9-3 (2T/B)	14 (4 22) 7EF
2	ONE	4#4 x 3-10 do.	8 (4 22) 4EF
3	ONE	4#4 x 23-1 do.	32 (4 21) 16EF
4	ONE	4#4 x 13-2 do.	20 (4 21) 10EF
5	ONE	4#4 x 3-11 do.	8 (4 21) 4EF
6	ONE	4#4 x 4-11 do.	8 (4 21) do.
7	ONE	4#4 x 4-5 do.	8 (4 21) do.
8	ONE	4#4 x 8-8 do.	14 (4 21) 7EF
9	ONE	4#4 x 7-11 do.	12 (4 21) 6EF
10	ONE	4#4 x 20-9 do.	30 (4 20) 15EF
11	ONE	4#4 x 8-6 do.	14 (4 20) 7EF
12	2	4#4 x 4-2 do.	8 (4 20) 4EF
13	3	4#4 x 4-8 do.	8 (4 20) do.
14	ONE	4#4 x 13-2 do.	20 (4 20) 10EF
15	ONE	4#4 x 36-11 do.	52 (4 20) 26EF
16	ONE	4#4 x 3-8 do.	6 (4 20) 3EF

DRAIN PIPE ENCASMENT. PLAN  
NTS



REF: A/HW-18 1/2 9 1/2 10/DL-4 FOR  
ADDL. ENCASED PIPING FROM GRIT  
CHAMBERS TO PUMP ROOM.

REF. A/HW-18 FOR ADDL. GRADE  
BEAM TO SUPPORT ENCASUREMENTS

LEGEND	
O.F.	OUTSIDE FACE
I.F.	INSIDE FACE
E.F.	EACH FACE
HORIZ.	HORIZONTAL
VERT.	VERTICAL
DWLS.	DOWELS
FTG.	FOOTING
ELEV.	ELEVATION
E.W.	EACH WAY
T.O.F.	TOP OF FOOTING
B.O.F.	BOTTOM OF FOOTING
T.O.W.	TOP OF WALL
B.O.W.	BOTTOM OF WALL
GRD. BM.	GRADE BEAM
MK.	MARK
MAS.	MASONRY
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COL.	COLUMN
PROJ.	PROJECTION
T & B	TOP & BOTTOM
N.F.	NEAR FACE
F.F.	FAR FACE
%	ON CENTER
@	AT EACH

NO	DATE	ISSUED FOR
10/20		ADDED NOTES PER ENGR'S. REQUEST
8/31		APPRVD. FOR CONST.

<b>DALCO</b> INDUSTRIES, INC. An Employee Owned Company		MEMBER CRSI
AREA CODE 303 371-3950	3730 SALEM ST.	DENVER, COLO. 80239
JOB: HAROLD D. THOMPSON REG. WATER RECLAIM.		
LOCATION: FOUNTAIN, CO.		
DESCRIPTION: DRAIN PIPE ENCASMENT. PLAN		
CONTRACTOR: WEAVER CONST.		
ARCHITECT: GMS, INC.		
DRAWN: D. TARIN	CHECKED:	DATE: 3-1-11
REVISIONS	JOB NO. 10082	DRAWING NO. P12A