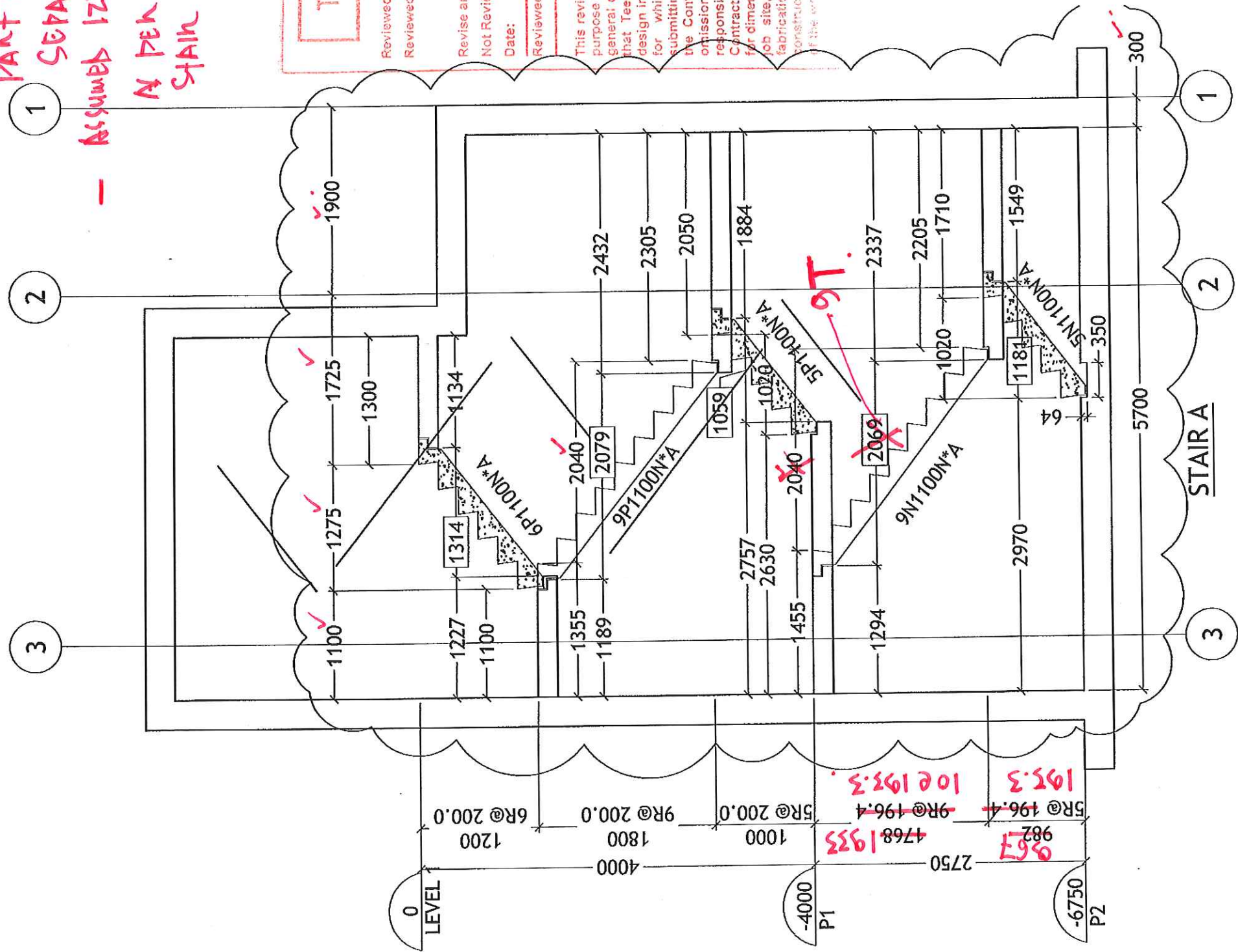


~~*A= 127mm (5") STAIR THROAT TO MEET 2-HR FIRE RATING.~~

~~- WHEN DOES THIS APPLY?
THERE IS NO AS-JERISK *
ON THROATS NOTED.~~

~~- THE STAIR IN THIS SECTION IS NOT PART OF A 2 HOUR FIRE SEPARATION.~~

~~- ASSUMED 127 THROAT ALL STAIRS AT PEN S-1S - TYPICAL STAIR SETTING DETAIL~~



Teepie Architects

Reviewed ()
Reviewed as noted ()

Revise and resubmit ()
Not Reviewed ()

Date: 15 04 10.

Reviewed by: *[Signature]*

This review by Teepie Architects Inc. is for the sole purpose of ascertaining performance for the general design concept. This review shall not constitute an approval of the design that Teepie Architects Inc. approves the design inherent in the shop drawings, revisions for which shall remain with the Contractor submitting same, and such review shall not be the Contractor of the responsibility for omissions in the shop drawings or responsibility for meeting all requirements of Contract Documents. The Contractor is responsible for dimensions to be confirmed and approved on job site, for information that may be used for fabrication processes or in construction and installation of the work.

NO.	REVISION	DATE
1	ISSUED FOR REVIEW	MAR 25/15
0	COMMENTS	JAN 29/15

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED IMMEDIATELY TO THE SUPPLIER.

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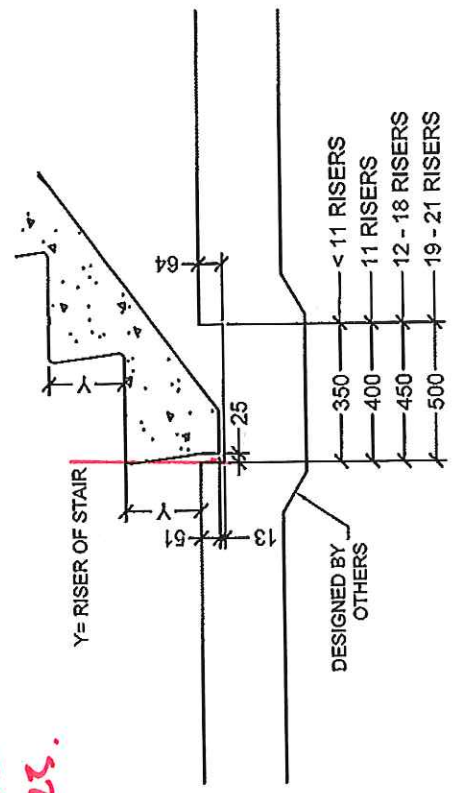


HY-GRADE
PRECAST CONCRETE
2411 FIRST STREET, R.R. #1
ST. CATHARINES, ONTARIO, L2R 6P7
T: 905-684-8568 F: 905-684-8560

FILE# 2508-15
PROJECT: SQ CONDO'S ALEXANDRA PARK
AVENUE BUILDING CORP.

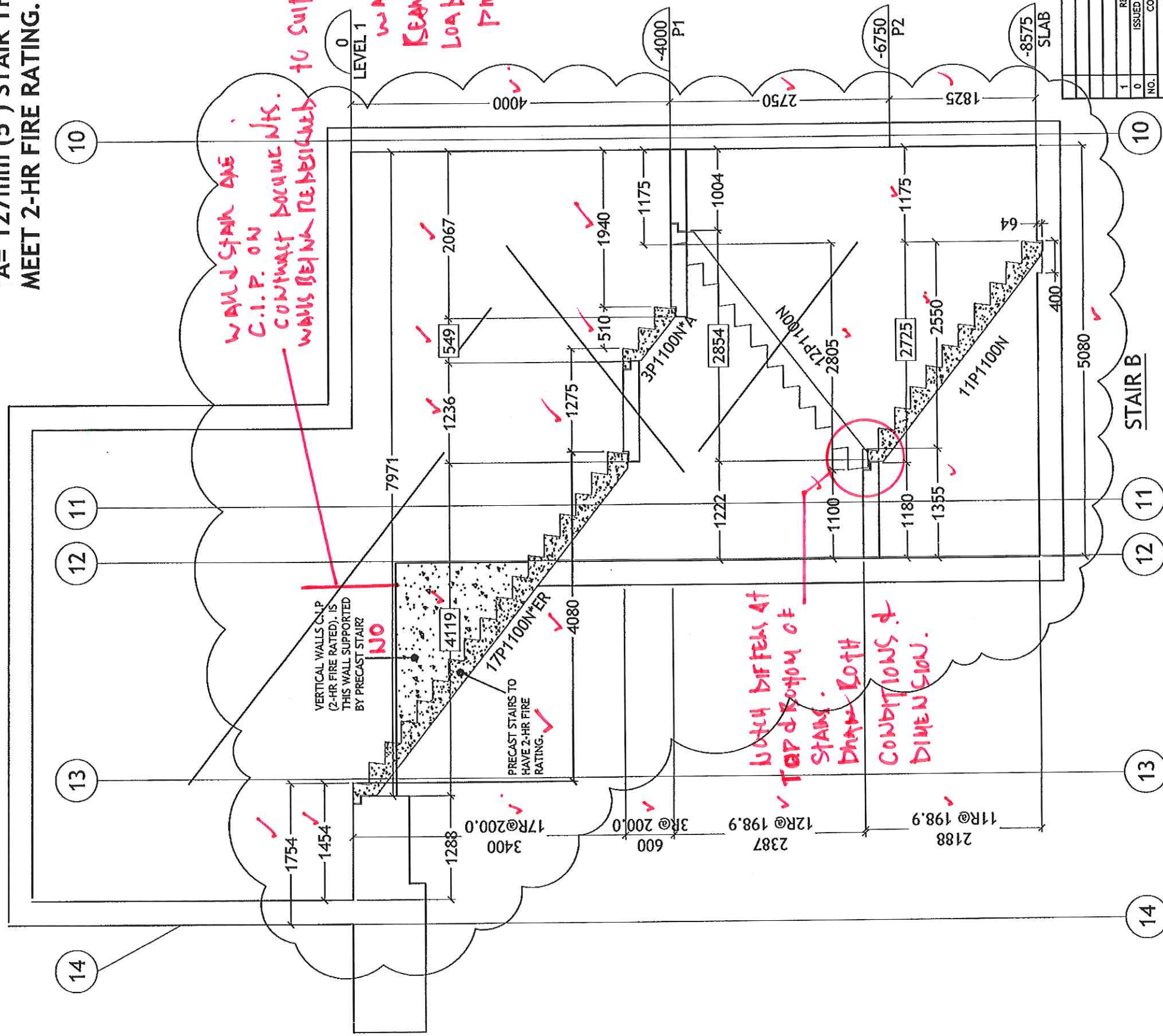
TITLE: SECTION STAIR A
DRAWN BY: R.G
SCALE: N.T.S
DWG. NO.: S-1

REVISE AS PER. AS 1-02
ISSUED. 2015-03-23.



SLAB ON GRADE DETAIL

***A= 127mm (5") STAIR THROAT TO MEET 2-HR FIRE RATING.**



SLAB ON GRADE DETAIL

Teepie Architects

Reviewed ()
 Reviewed as noted ()
 Revise and resubmit ()
 Not Reviewed ()
 Date: 15 04 10
 Reviewed by: [Signature]

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NO.	REVISION	DATE
1	ISSUED FOR REVIEW	MAR 25/15
0	COMMENTS	JAN 20/15

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PROJECT: SQ CONDO'S ALEXANDRA PARK
 AVENUE BUILDING CORP.
 TORONTO, ON

TITLE: SECTION STAIR B
 DRAWN BY: R.G
 SCALE: N.T.S
 DWG. NO.: S-2

GENERAL NOTES:

- PLEASE VERIFY ALL GRID LINE LOCATIONS.
- ALL STAIRS HAVE A STAIR HEADROOM CLEARANCE OF 2050mm. AS PER O.B.C-3.4.3.5 (2)
- ALL LANDINGS TO BE A MINIMUM OF 1100mm. AS PER O.B.C-3.4.6.4 (1)
- BOXED DIMENSIONS ARE FIXED DIMENSIONS, DUE TO STAIR TILTING AND PROPERLY FITTING THE STAIRS BETWEEN LANDINGS. (REFER TO DETAIL SHEET S-15)

Teple Architects^{INC}

Reviewed

Reviewed as noted

Revise and resubmit

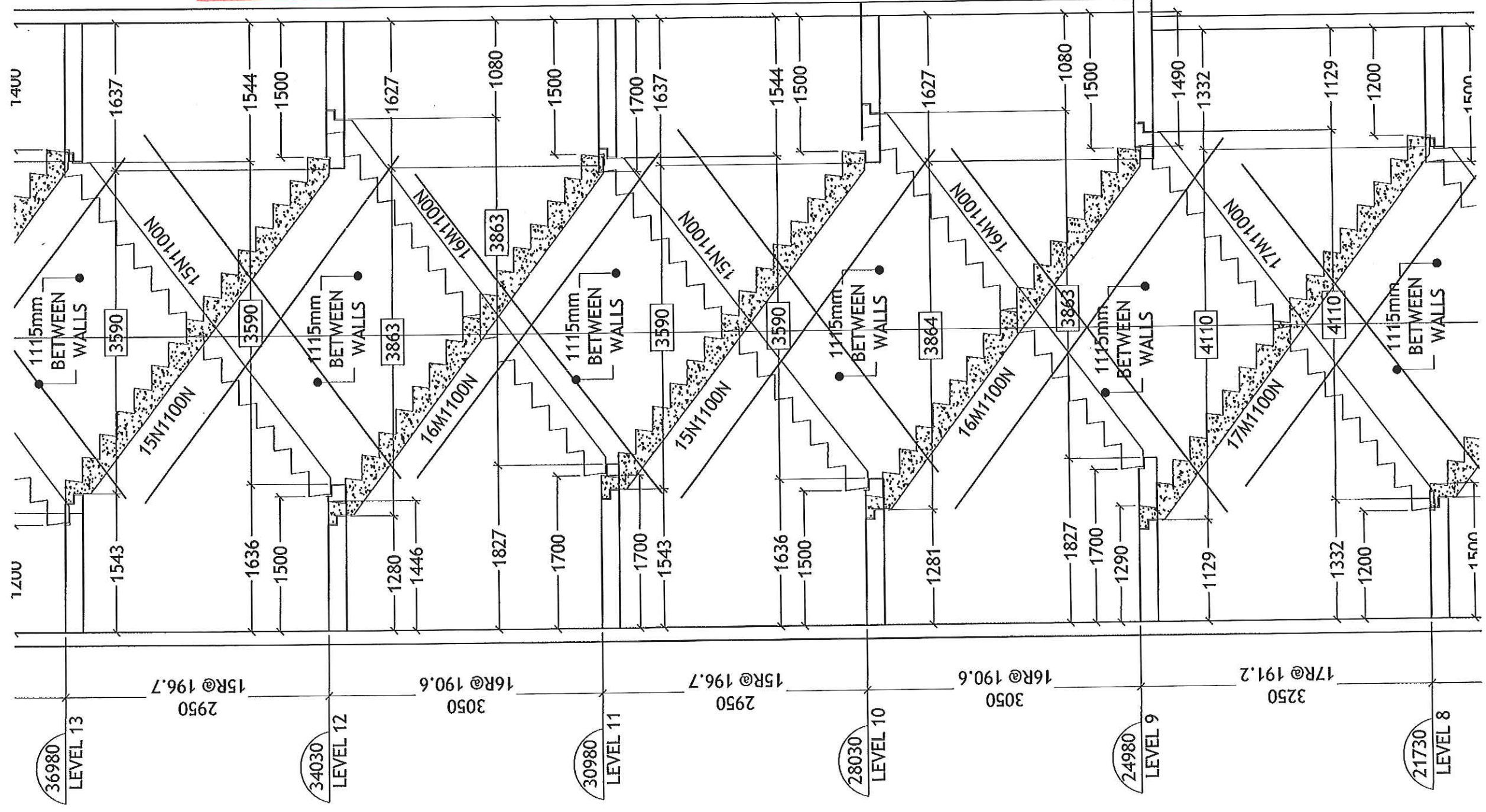
Not Reviewed

Date: **15 04 10**

Reviewed by:

This review by Teple Architects Inc. is for the sole purpose of ascertaining compliance with the general design concept. This review shall not mean that Teple Architects Inc. approves the actual design inherent in the shop drawings, responsibility for which shall remain with the Contractor.

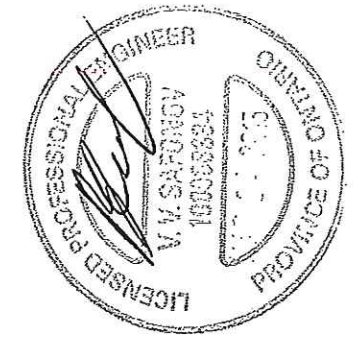
PLEASE PROVIDE ARCHITECTURAL PLAN VIEW DRAWINGS TO GIVE ACCURATE STAIR LOCATIONS.



NO.	REVISION	ISSUED FOR REVIEW	DATE
1		MAR 25/15	
0		JAN 20/15	

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED IMMEDIATELY TO THE SUPPLIER.

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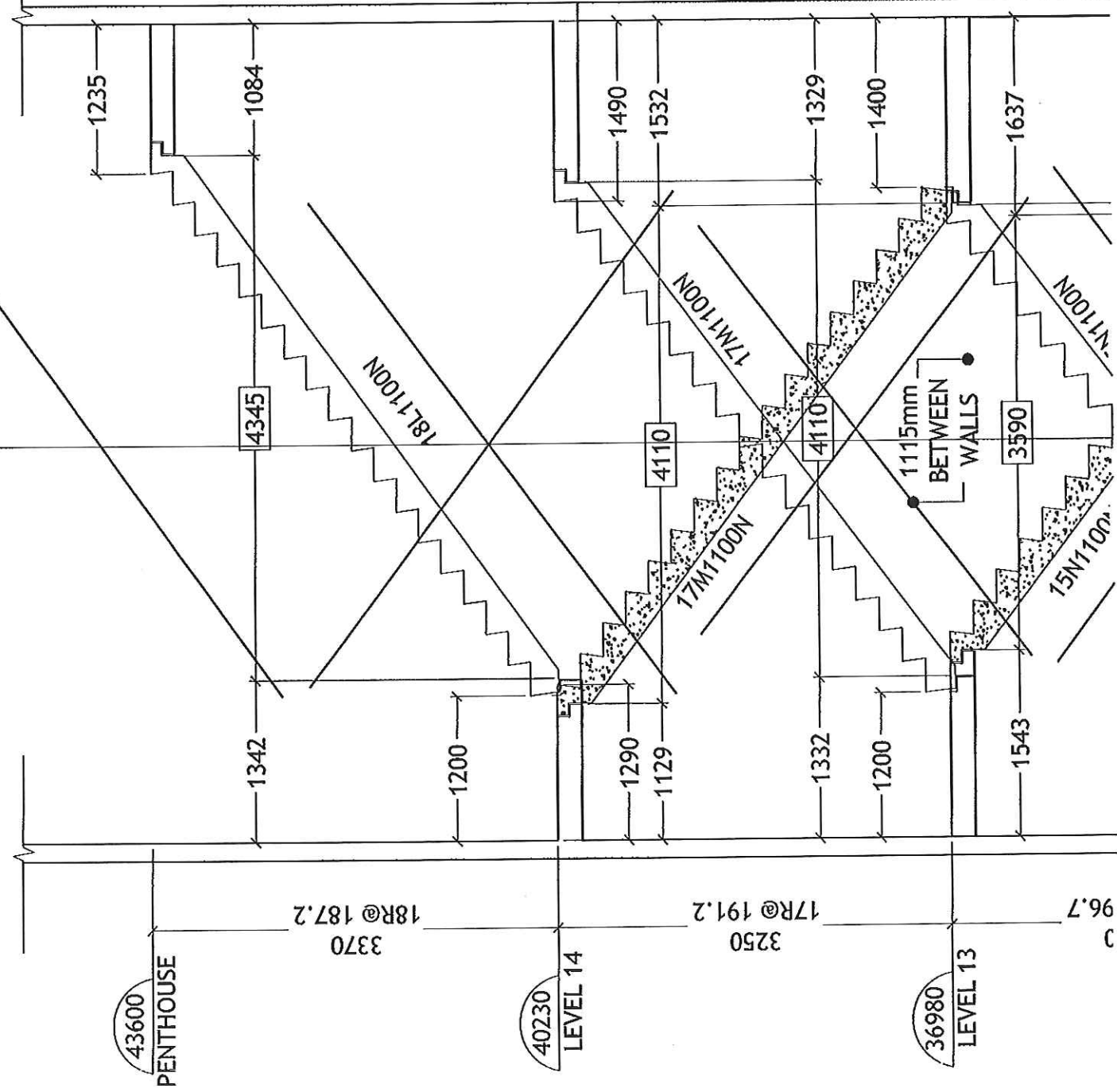
HY-GRADE
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 2411 FIRST STREET, R.R. #1
 ST. CATHARINES, ONTARIO, L2R 6P7
 T: 905-684-8568 F: 905-684-8550

FILE# 2508-15
 PROJECT: SQ CONDO'S ALEXANDRA PARK
 AVENUE BUILDING CORP.
 TORONTO, ON

TITLE: SECTION STAIR F & G
 DRAWN BY: R.G
 SCALE: N.T.S
 DWG. NO.: S-6

K

STAIR F & G



GENERAL NOTES:

- PLEASE VERIFY ALL GRID LINE LOCATIONS.
- ALL STAIRS HAVE A STAIR HEADROOM CLEARANCE OF 2050mm. AS PER O.B.C-3.4.3.5 (2)
- ALL LANDINGS TO BE A MINIMUM OF 1100mm. AS PER O.B.C-3.4.6.4 (1)
- BOXED DIMENSIONS ARE FIXED DIMENSIONS, DUE TO STAIR TILTING AND PROPERLY FITTING THE STAIRS BETWEEN LANDINGS. (REFER TO DETAIL SHEET S-15)

Teepie Architects INC.

Reviewed

Reviewed as noted

Revise and resubmit

Not Reviewed

15 04 10

Date: PLEASE PROVIDE

Reviewed By: ARCHITECTURAL PLAN

purpose: VIEW DRAWINGS TO

general: GIVE ACCURATE STAIR

design: LOCATIONS.

submitting same, and such review shall not release the Contractor of the responsibility for errors or omissions in the shop drawings or drawings submitted for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and maintained at the job site, for information that contains fabrication instructions.

3250

17R@191.2

3370

18R@187.2

96.7

36980

LEVEL 13

40230

LEVEL 14

43600

PENTHOUSE

NO.	ISSUED FOR REVIEW	DATE
1	REVISION	MAR 25/15
0	ISSUED FOR REVIEW	JAN 20/15

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FILE# 2508-15

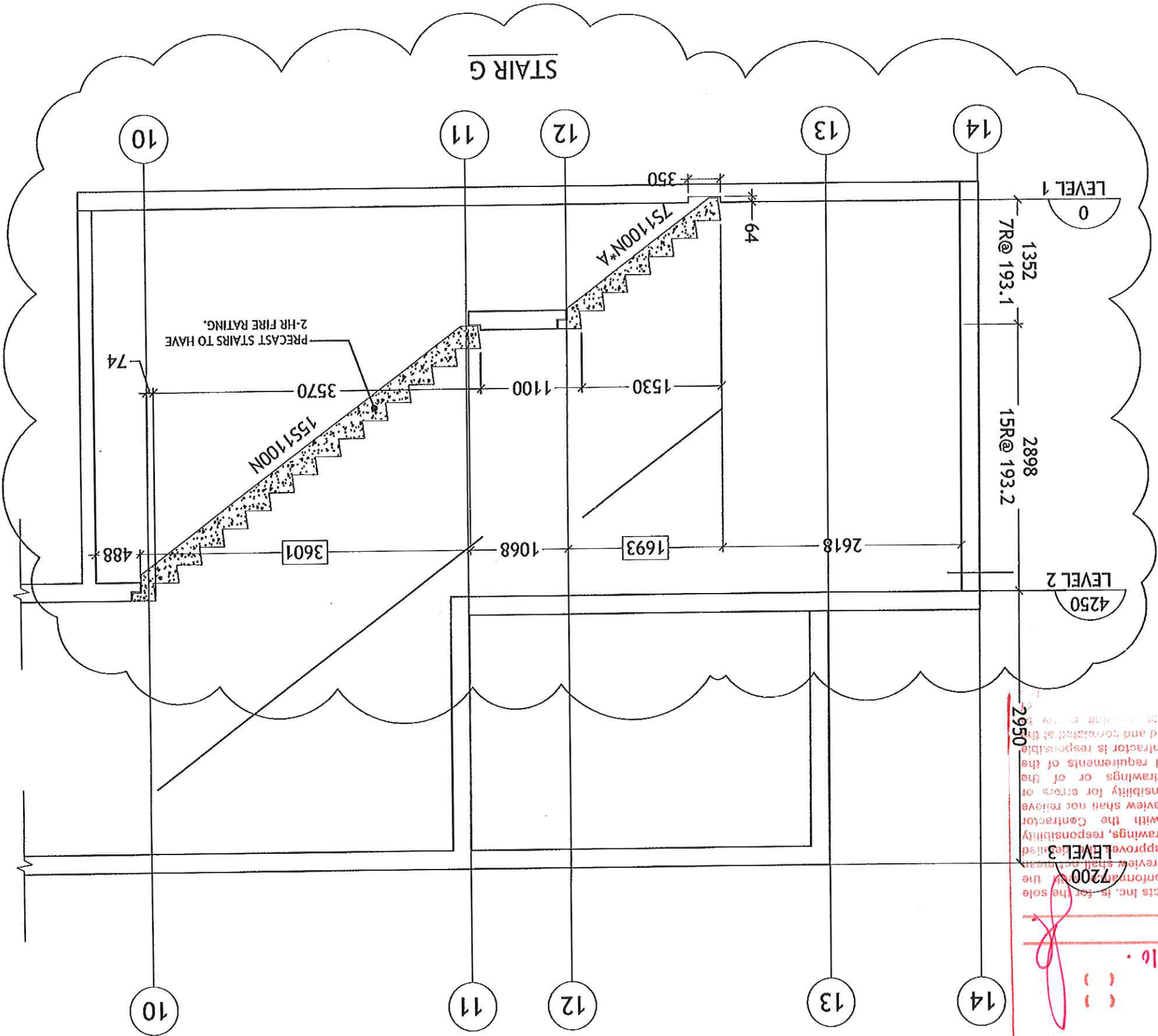
PROJECT: SQ CONDO'S ALEXANDRA PARK
 AVENUE BUILDING CORP.
 TORONTO, ON

TITLE: SECTION STAIR F & G

DRAWN BY: R.G

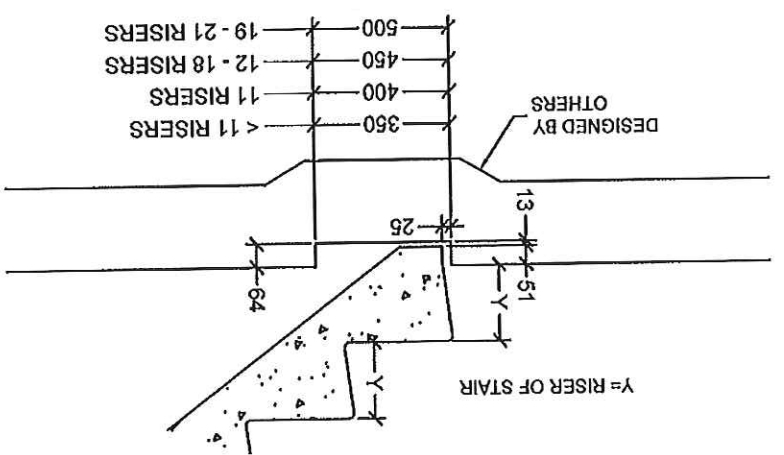
SCALE: N.T.S

DWG. NO. S-7



*A= 127mm (5") STAIR THROAT TO MEET 2-HR FIRE RATING.

SLAB ON GRADE DETAIL



HY-GRADE PRECAST CONCRETE
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 ST. CATHARINES, ONTARIO, L2R 6P7
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FILE# 2508-15
 PROJECT: SQ CONDOS ALEXANDRA PARK
 AVENUE BUILDING CORP.

TITLE: STAIR SECTION G
 DRAWN BY: SCALE: DWG. NO. 5-9
 R.G. N.T.S.

PROFESSIONAL ENGINEER
 V.A. SARONOV
 10000324
 PROVINCE OF ONTARIO

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NO.	COMMENTS	DATE
0	ISSUED FOR REVIEW	JAN 20/15
1	REVISION	MAR 25/15

SEE S-8 FOR COMMENTS

Teepie Architects INC.

Reviewed as noted

Not Reviewed

Date: 15 09 10.

Reviewed by:

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DRAWN BY: R.G. N.T.S. S-10
 SCALE: DVG. NO.
 TITLE: STAIR SECTION H
 PROJECT: SQ CONDOS ALEXANDRA PARK
 AVENUE BUILDING CORP.
 FILE# 2508-15
 2411 FIRST STREET, R.R. #1
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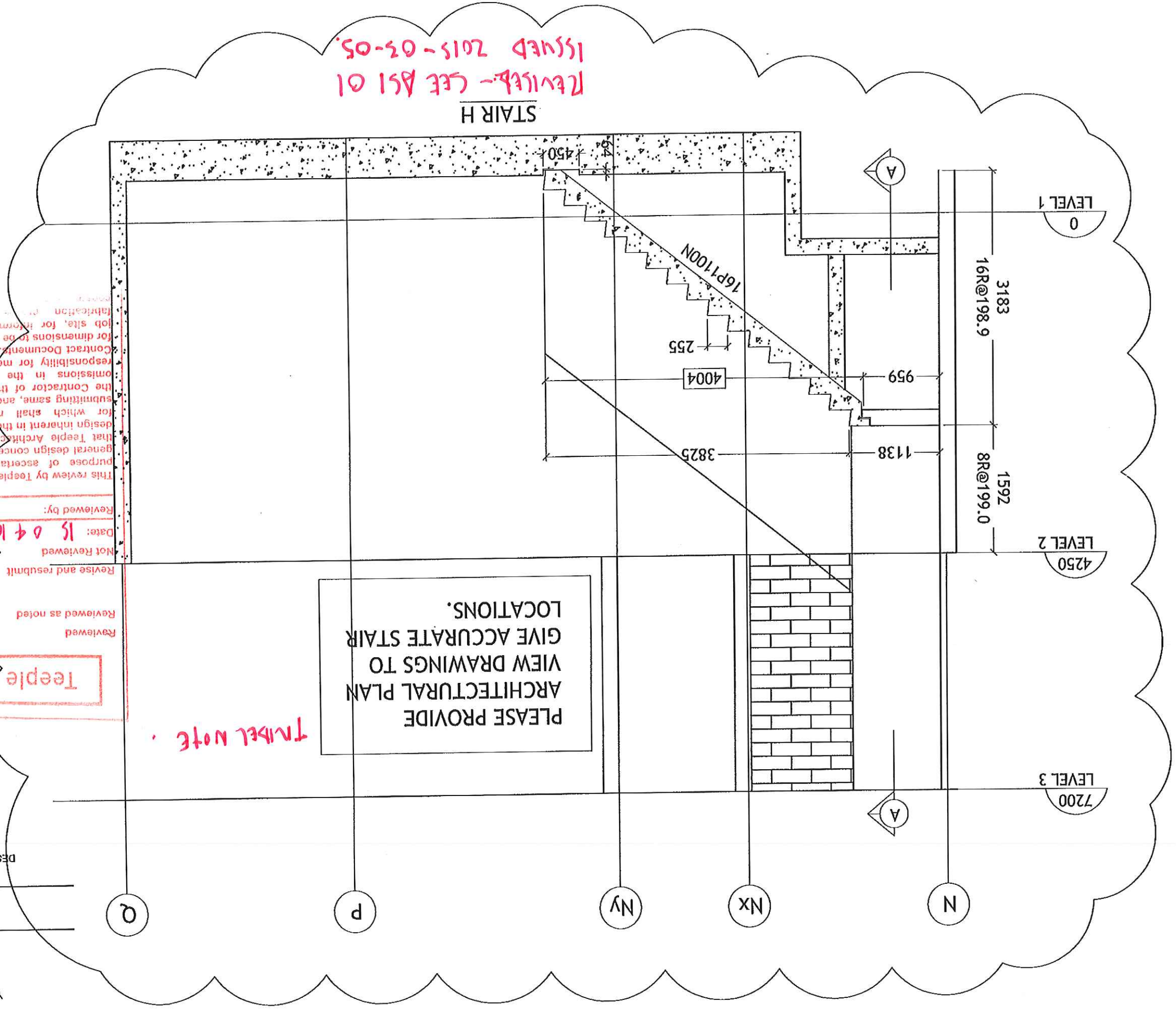
NO.	COMMENTS	DATE
0	ISSUED FOR REVIEW	MAR 25/15

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED IMMEDIATELY TO THE SUPPLIER.

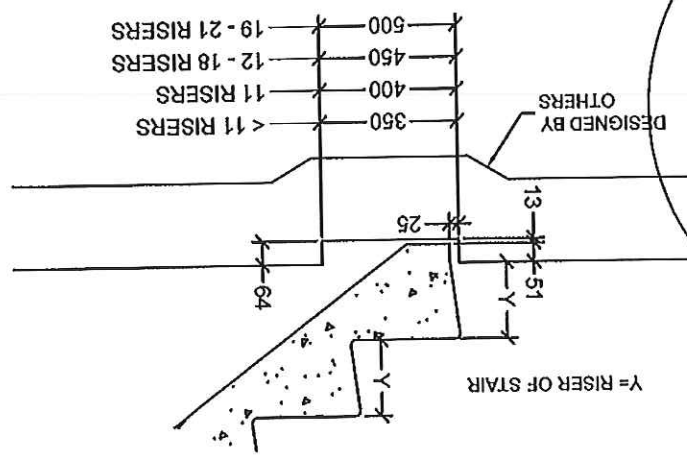
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Reviewed by: *[Signature]*
 Date: 15 04 10
 Not Reviewed
 Revise and resubmit
 Reviewed as noted
 Reviewed

STAIR H
 REVISÉ - CEE ASI Q1
 ISSUED 2015-03-05





SLAB ON GRADE DETAIL



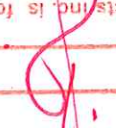
Teeple Architects Inc.

Trabel Note

DRAWN BY: R.G.		SCALE: N.T.S.	DWG. NO. S-11
TITLE: STAIR H SECTION A-A			
PROJECT: SQ CONDOS ALEXANDRA PARK			
FILE# 2508-15			
 HY-GRADE PRECAST CONCRETE 2411 FIRST STREET, R.R. #1 ST. CATHARINES, ONTARIO, L2R 6P7 T: 905-684-8568 F: 905-684-8560			
			
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NO.	COMMENTS	DATE	
0	ISSUED FOR REVIEW	MAR 25/15	

Reviews - SEE A1 01
 Issues 2015-03-05

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Reviewed by: 

Date: 15 04 10

Not Reviewed ()

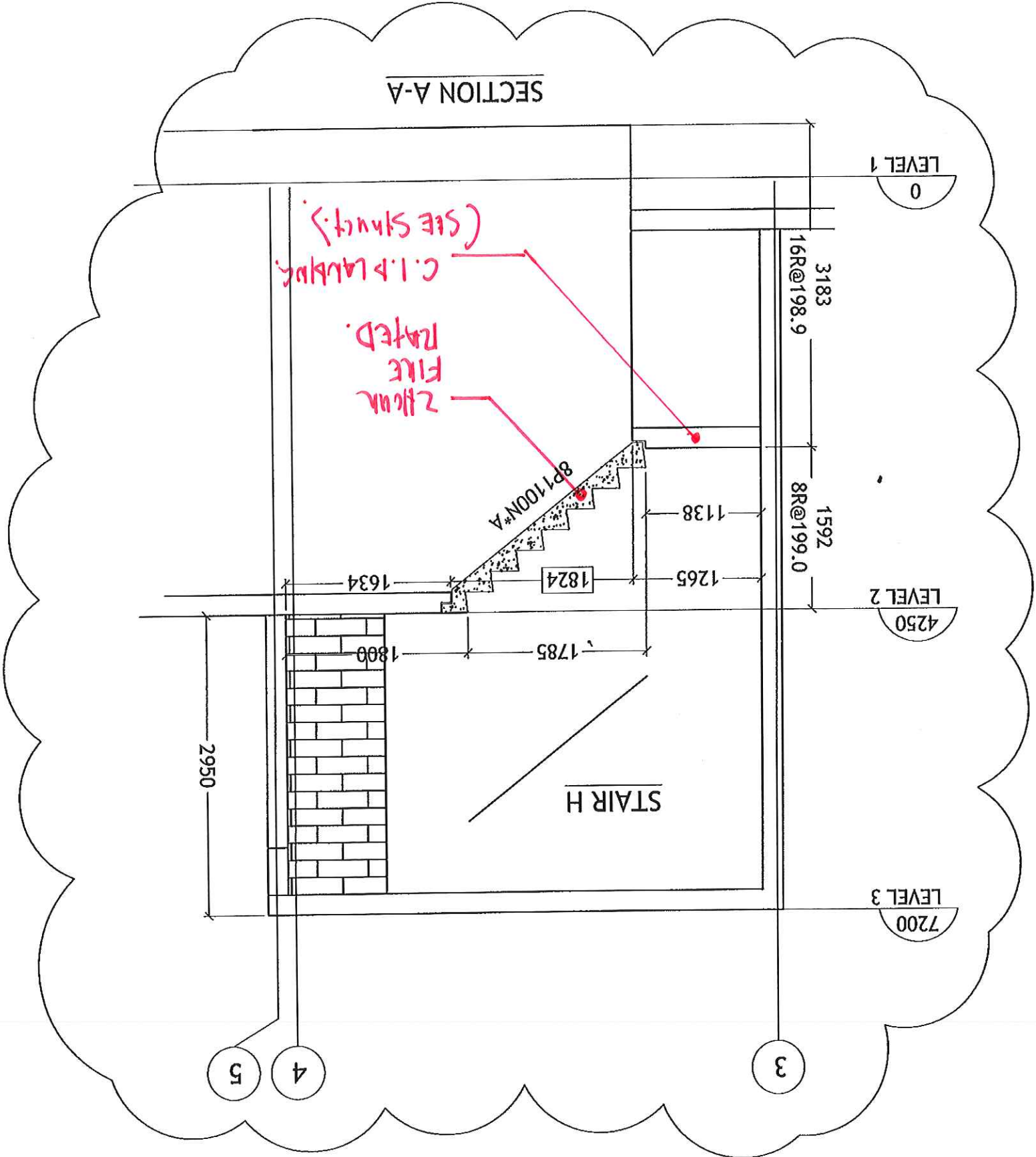
Revise and resubmit ()

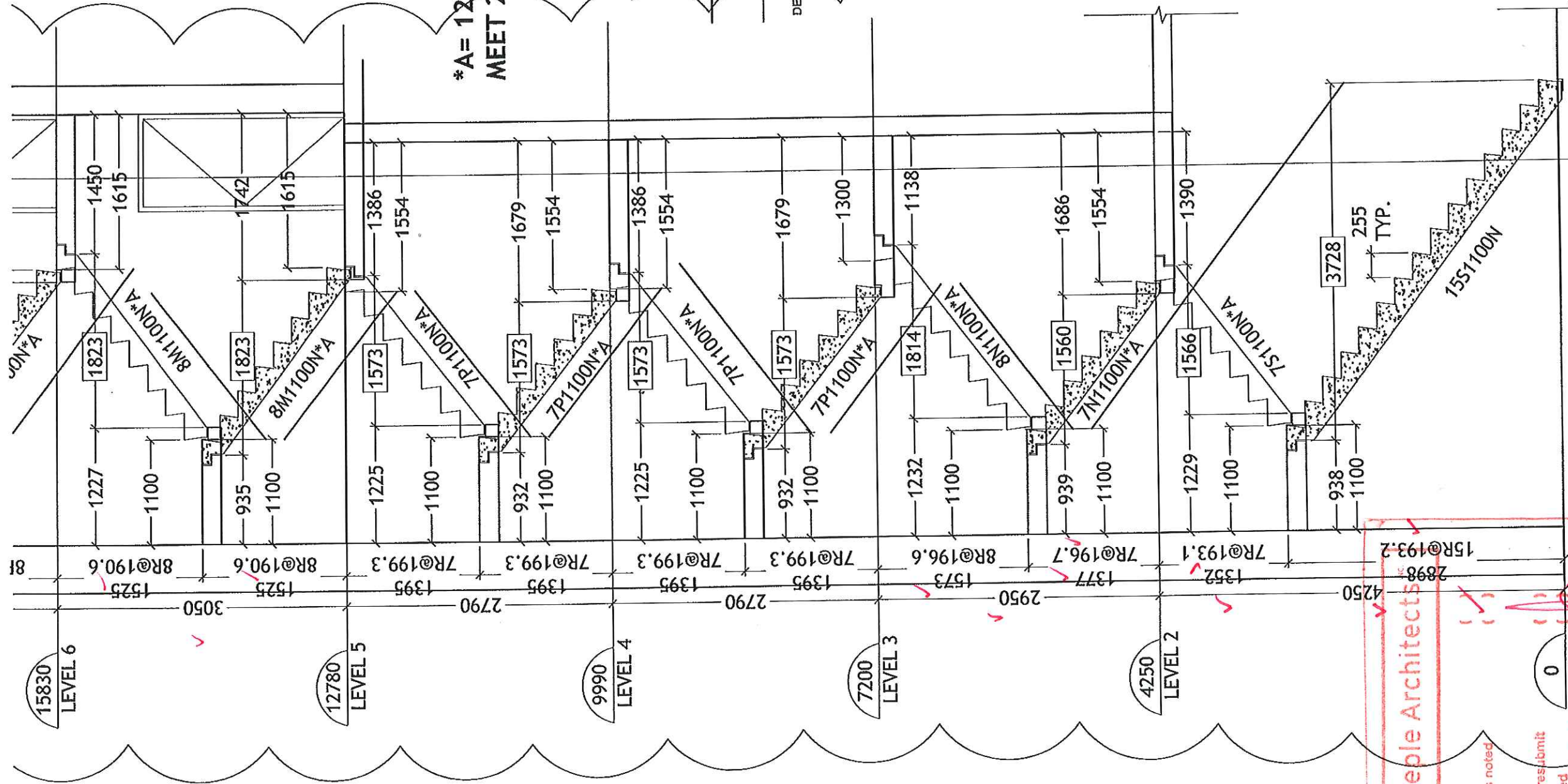
Reviewed as noted ()

Teeple Architects

PLEASE PROVIDE ARCHITECTURAL PLAN VIEW DRAWINGS TO GIVE ACCURATE STAIR LOCATIONS.
 LABEL NOTE.

*A= 127mm (5") STAIR THROAT TO MEET 2-HR FIRE RATING.



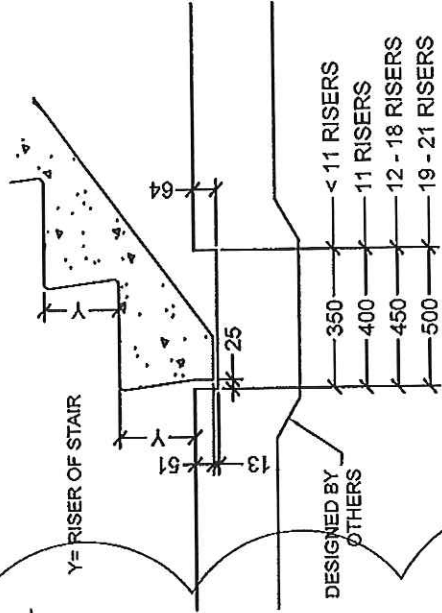


PLEASE PROVIDE ARCHITECTURAL PLAN VIEW DRAWINGS TO GIVE ACCURATE STAIR LOCATIONS.

TRIBEL NOTE.

INTERMEDIATE LANDINGS ARE 1100 AS SHOWN.

***A= 127mm (5") STAIR THROAT TO MEET 2-HR FIRE RATING.**



SLAB ON GRADE DETAIL

NO.	ISSUED FOR REVIEW	COMMENTS	DATE
0			MAR 25/15

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FILE# 2508-15
 PROJECT: SQ CONDOS ALEXANDRA PARK
 AVENUE BUILDING CORP.
 TORONTO, ON

TITLE: SECTION STAIR J
 DRAWN BY: R.G
 SCALE: N.T.S
 DWG. NO. S-13

Teepie Architects

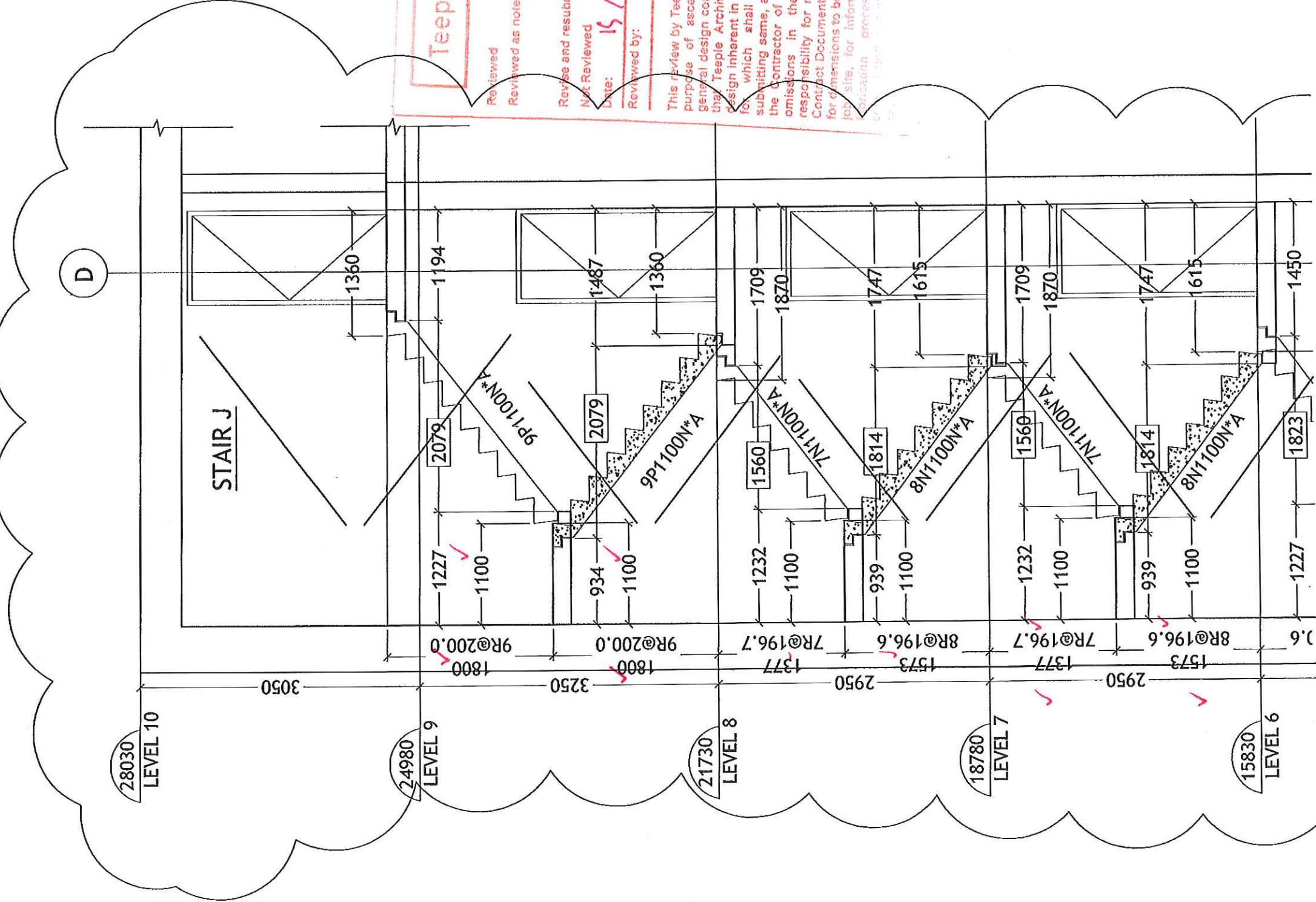
Reviewed
 Reviewed as noted
 Revise and resubmit
 Not Reviewed
 Date: **15 04 15**
 Reviewed by:

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STAIR J

(D)

*A= 127mm (5") STAIR THROAT TO MEET 2-HR FIRE RATING.



PLEASE PROVIDE ARCHITECTURAL PLAN VIEW DRAWINGS TO GIVE ACCURATE STAIR LOCATIONS.

*TRIAL NOTE:
± WITH MED IATE LAMBILLI ARE
1100 AS SHOWN.*

Teple Architects

Reviewed
Reviewed as noted

Revise and resubmit
Not Reviewed
Date: 15/04/16
Reviewed by:

This Review by Teple Architects Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Teple Architects Inc. approves the detailed design inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and such review shall not constitute an assumption of responsibility for any omissions in the shop drawings or omissions in the Contract Documents. The Contractor is responsible for dimensions to be confirmed and certified at the job site, for information that permits study of fabrication processes and for bearing of any responsibility for such matters.

NO.	ISSUED FOR REVIEW	DATE
0		MAR 25/15

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ST. CATHARINES, ONTARIO, L2R 6P7
T: 905-684-8568 F: 905-684-8560

FILE# 2508-15
PROJECT: SQ CONDO'S ALEXANDRA PARK
AVENUE BUILDING CORP.

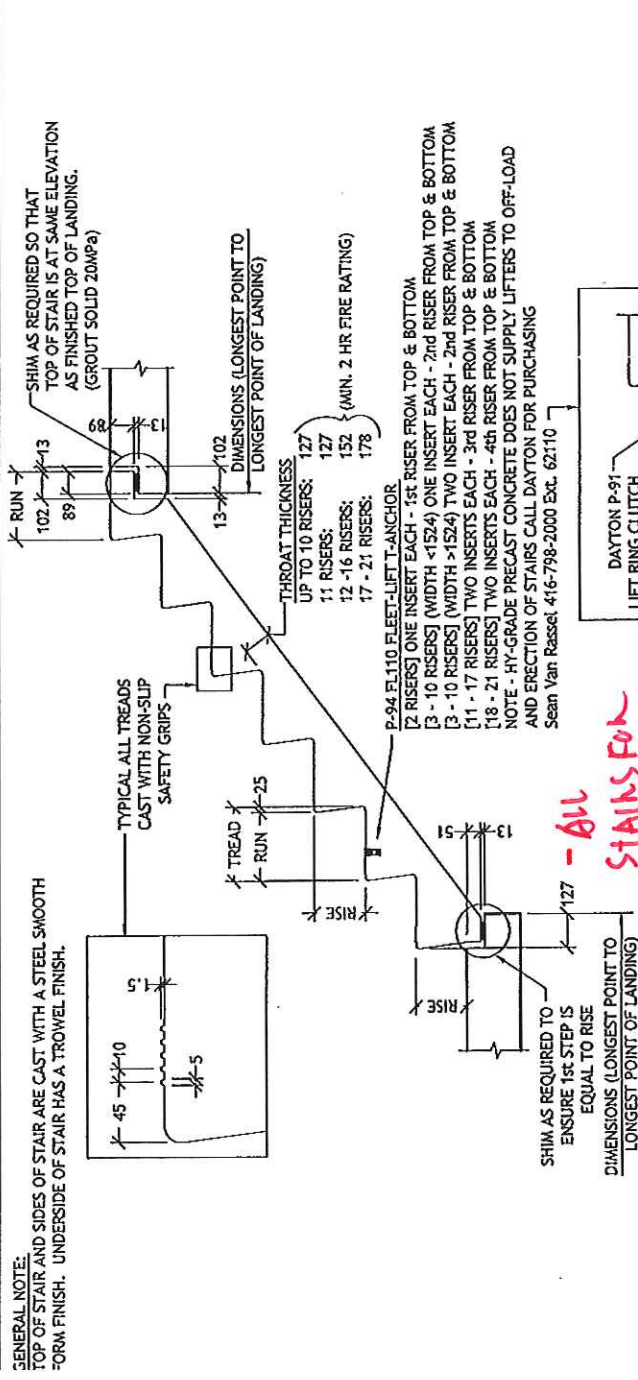
TITLE: SECTION STAIR J
DRAWN BY: R.G
SCALE: N.T.S
DWG. NO. S-14

WARNING

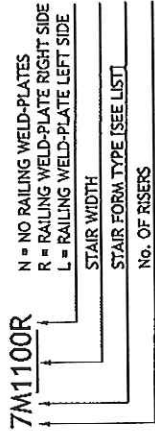
IMPROPER STACKING OF STAIRS CAN LEAD TO CRACKING. FOLLOW THIS DETAIL WHEN PLACING WOOD SLEEPER SUPPORTS AND CUSHIONS UNDER STAIR UNITS

HY-GRADE PRECAST CONCRETE WILL NOT BE RESPONSIBLE FOR DAMAGE RESULTING IN IMPROPER STACKING AND STORAGE

STACKING DETAIL



TYPICAL STAIR SETTING DETAIL (N.T.S.)



IF STAIR CODE IS FOLLOWED BY OTHER LETTERS SEE BELOW:

- PB PINNED BOTTOM (SEE DETAIL ON THIS PAGE)
- ER EXTRA REINFORCEMENT REQD TO SUPPORT ADDNL LOADS
- A, •B, •C... SPECIAL STAIR (NOT TYPICAL)
- CI CORROSION INHIBITOR ADDED TO CONCRETE MIXTURE
- EP REINFORCEMENT REQD EPOXY COATING
- NT NO NON-SLIP TREADS
- W REQD WOOSTER INSERTS

STAIR DESIGNATION

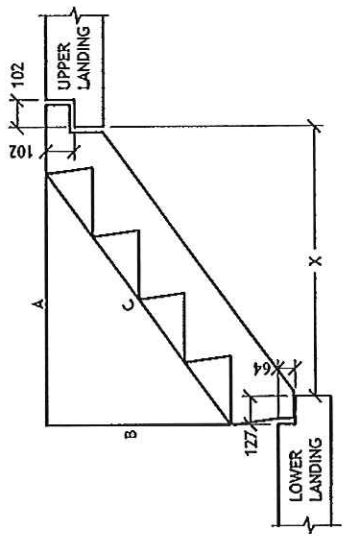
NOTE: ALL STAIR TREAD = RUN + 25mm NOSING
VALUES ACCORDING TO STAIR MOLD
(WITHOUT TILT TOLERANCE)

FORM ID	RISE		RUN	WIDTH MAX.
	NOMINAL	ACTUAL		
J	175	174.4	280	1980
K	180	180.0	255	1980
L	185	185.0	255	1980
M	190	190.5	255	1980
N	195	194.5	255	1980
P	200	200.0	255	1985
Q	180	179.0	280	1995
R	200	200.6	280	1520
S	192	192.5	255	1600
I	180	180.0	268	1805
G	171.0	171.5	280	1975
H	165	164.9	280	1974

GENERAL NOTES:

1. CONCRETE COMPRESSIVE STRENGTH (MIN.) 30 MPa AT 28 DAYS; F1 CONCRETE MIX; 5-8% AIR-ENTRAINMENT.
2. REINFORCEMENT STEEL TO CONFORM TO CSA G30 18M GRADE 400 (60ksi)
3. THE TOLERANCES FOR THE PRECAST CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CLAUSE 12.4 OF CSA A23.4-09
4. DESIGN LOADS:
LIVE LOADS = 48 kN/M
TOTAL DEAD LOAD = SELF WEIGHT
ALL STAIRS CONFORM TO OBC 2006 - PART 3 CLAUSE. 3.4-6.7
5. ALL STAIRS HAVE A 2-HR FIRE RATING UNLESS OTHERWISE SPECIFIED.

X'DIMENSION CANNOT BE VERIFIED BY CLEAR SPAN OPENING ARCH.



CLEAR SPAN OPENING (C)

CLEAR SPAN OPENING IS CALCULATED BY CREATING A RIGHT ANGLE TRIANGLE (ABC) FROM BOTTOM NOSING TO THE TOP NOSING.

C = (HYPOTENUSE DIM.) x (# OF TREADS - 1)

B = (LANDING-TO-LANDING DIM.) - (SINGLE ACTUAL RISER)

A = $\sqrt{C^2 + B^2}$

X = A + SINGLE ACTUAL TREAD

- 89mm (TOP LIP > 102-13gap)

- 127mm (BOTTOM LIP)

ROTATION IS REQUIRED WHEN STAIR NEEDS TO BE ROTATED SLIGHTLY TO FIT THE ACTUAL OVERALL VERTICAL RISE BETWEEN LANDINGS. IF THE STAIR NEEDS TO TILT FORWARD THAN 'X' WILL BE SLIGHTLY LARGER. IF THE STAIR NEEDS TO BE TILTED BACK THEN 'X' WILL BE SLIGHTLY SMALLER.

PRECAST SCHEDULE

TAG NO.	WEIGHT [LBS]	STAIR A	STAIR B	STAIR C	STAIR D	STAIR F&G	STAIR H	STAIR J	TOTAL	No. of Risers	Riser Height	Run (Nominal)
5 N 1100 N*A	1,691	1							1	5	194.5	255
9 N 1100 N*A	3,113	1							1	9	194.5	255
5 P 1100 N*A	1,691	1							1	5	200.0	254
6 P 1100 N*A	3,113	1							3	27	200.0	254
6 P 1100 N*A	2,046	1							1	6	200.0	254
11 P 1100 N	4,337	1							1	11	200.0	254
12 P 1100 N	5,302	1							1	12	200.0	254
3 P 1100 N*A	980	1							1	3	200.0	254
17 P 1100 N*ER	8,404	1							2	10	185.0	255
5 L 1200 N*A	1,845			2					1	9	190.5	255
9 M 1100 N*A	3,113				1				10	150	194.5	255
15 N 1100 N	6,659					10			4	56	200.0	254
14 P 1100 N	6,207					4			6	96	190.5	255
16 M 1100 N	7,111					4			4	68	190.5	255
17 M 1100 N	8,404					1			1	18	185.0	254
18 L 1100 N	8,906								1	16	200.0	254
16 P 1100 N	7,111								1	8	200.0	254
8 P 1100 N*A	2,758								4	28	194.5	255
7 N 1100 N*A	2,402								1	3	194.5	255
8 N 1100 N*A	2,758								4	32	194.5	255
7 P 1100 N*A	2,402								8	56	200.0	254
15 S 1100 N	6,659								1	15	192.5	255
7 S 1100 N*A	2,402								1	7	192.5	255
8 M 1100 N*A	2,758								2	16	190.5	255
TOTAL		5	4	2	1	25	8	16	61	680		

*A= 127mm (5") THROAT TO MEET 2-HR FIRE RATING

All stairs are Standard stairs - refer to typical stair dwg details

Mix Design: MD-36 or SCC

Teepie Architects

Reviewed as noted

Revise and resubmit

Not Reviewed

Date: 15 04 18

Reviewed by:

This review by Teepie Architects Inc. is for the purpose of ascertaining compliance with the general design concept. This review shall not constitute an approval of the design or the construction process. The Contractor shall remain responsible for meeting all requirements for dimensions to be confirmed and corrected on site, for information that pertains to the fabrication process or to the construction of the work of all trades.



HY-GRADE
PRECAST CONCRETE

2411 FIRST STREET, R.R. #1
ST. CATHARINES, ONTARIO, L2R 6P7
T: 905-684-8568 F: 905-684-8560

FILE# 2508-15

PROJECT: SQ CONDO'S ALEXANDRA PARK
AVENUE BUILDING CORP.
TORONTO, ON

TITLE: DETAILS AND SCHEDULE

DRAWN BY: R.G

SCALE: N.T.S

DWG. NO: S-15

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED IMMEDIATELY TO THE SUPPLIER.

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NO.	REVISION	DATE
1	ISSUED FOR REVIEW	MAR 25/15
0	COMMENTS	JAN 20/15