CITY OF PORTSMOUTH Zoning Board of Adjustment Application



Department Use Only Assessor Plan # 138 Zone _ C R C	
Fill in below t	
Applicant Neil Cohen	
Applicant Street Address 21-23 Langdon St. Owner Street Add	iress
Applicant City / State / Zip Portsmouth, NH 03801 Owner City / State	te / Zip
Applicant phone ()Owner phone (
Applicant e-mail zip3200@yahoo.com	
Location (street address) of proposed work: 21-23 Langdon St.	
Existing use: Duplex	
Undersigned hereby requests:	Article and Section
Appeal from an Administrative Decision See Article 2, Section 10.234.30	
Special Exception See Article 2, Section 10.232.20	
☐ Variance See Article 2, Section 10.233.20	see attached
Other See Article 2, Section 10.233.20	
To permit the following: Demolition and reconstruction of existing duplex structure, with reduced first floor footprint to	allow approved 2nd driveway in right side yard.
The undersigned alleges that the required conditions exist for granting of Ordinance as demonstrated in the attached submittals. Only complete applications will be accepted by the deadline date. A compfilled out application with original signatures, the application fee, and 12 padocuments or photos. Incomplete applications will not be accepted. Applications complete applications or his/her representative is above appeal. Signature of Owner Bernard Pelech	plete application shall consist of: a completely ackets of required plans and any supporting lications received after the deadline will be a required to attend the Public Hearing for the
January 2017	Page 1 of 2

Applicant's Responsibilities

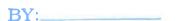
- 1. All applications for Variances and Special Exceptions must be submitted to the Planning Department prior to the published deadline. In the case of Appeals from an Administrative Decision, the appeal shall be filed no later than 30 days from the date of the action which is being appealed.
- 2. A Building Permit application must also be filed for the project for which zoning relief is being sought. The Building Permit application can be submitted with the Board of Adjustment application or filed prior. The Planning Department may waive this requirement when the application is for a substandard lot for subdivision purposes and no other zoning relief is required.
- 3. An applicant shall be one of the following: a) the owner of record of the property, or b) the holder of a valid purchase and sales agreement for the purchase of the subject property, or c) the holder of a valid option for the purchase of the subject property.
- 4. All applications shall include a written statement explaining how the request complies with the requirements of the Zoning Ordinance as provided in Article 2 (see Section 10.234.30 for Administrative Appeals, Section 10.233.20 for Variances, Section 10.232.20 for Special Exceptions).
- 5. It is the obligation of the applicant to submit adequate plans and exhibits in accordance with the terms of the Zoning Ordinance for all applications for Administrative Appeals, Variances, Special Exceptions, and Equitable Waivers.
- 6. One (1) orginal copy of a completed and signed "Board of Adjustment Application Check-List" shall accompany all applications.
- 7. For applications requesting dimensional relief, the minimum requirements for adequate plans shall include the following:
- □ Site Plan(s) showing existing and proposed conditions Scale of all drawings and plans (the scale is the ratio of the including: drawing's size relative to the actual size) - Front, side and rear setback / yard dimensions (this Labeled photo(s) of existing conditions is the distance from a structure to the lot line) Building plans and elevations of any proposed structures or - Lot dimensions additions - Abutting street(s) and street names Interior floor plans for any renovations or expansion to П - Driveways / accessways existing structures - Dimensions (size and height) of structures - Dimensions and location of parking spaces
- For applications requesting relief from land use requirements, the minimum requirements for adequate plans shall include the following:
- Site Plan showing dimensions and location of parking spaces including the scale (the scale is the ratio of the drawing's size relative to the actual size)
- □ Interior floor plans and/or exterior site plans showing the location of the proposed use(s)
- □ Labeled photo(s) of existing conditions
- 9. Plans should be 8 ½" x 11" in size, 11" x 17" plans may be used only if the plan would otherwise be unreadable.
- 10. The Planning Department is authorized by the Board of Adjustment to refuse applications which do not meet these minimum requirements. The Planning Department may also require additional information and/or exhibits as needed to illustrate the scope of the project. Public Hearings shall not be scheduled, advertised or held until such time as the minimum requirements for adequate plans have been submitted. The Board may postpone any application requiring more information prior to any action being taken.
- 11. The applicant shall submit one (1) original and eleven (11) copies of the application and any plans, exhibits, and supporting documents.
- 12. The applicant shall provide electronic files in Portable Document Format (PDF) of all submittals.

I have read the above list of responsibilities, have provided all required information, and such information is current, accurate, and complete to the best of my knowledge.

The Applicant is encouraged to consider the following when completing the application:

- applicant is encouraged to consider the following when completing the application:

 Provide neat and clear plans
- Use of color or highlights is encouraged in order to identify pertinent areas on plans
- Applicants are encouraged to review the application with a member of the Planning Department staff prior to submittal
- All applicants are encouraged to discuss the project with impacted neighbors



(Applicant's Signature, date)

STATEMENT OF AUTHORIZATION

The undersigned, Neil Cohen owner of property at 21-23 Langdon St. Portsmouth, NH, does hereby authorize Bernard W. Pelech, as attorney, to prepare and file any and all applications for the City of Portsmouth Zoning Board of Adjustment and Planning Board, and further authorizes Bernard W. Pelech to represent my interests before the Zoning Board and/or Planning Board for the City of Portsmouth with regard to the property located on Langdon Street.

D	ated:	January	1	2019
_			/	

Neil Cohen

21-23 Laugdon ST Applicant: Neil Cohon



VANCES REQUESTED:

- (1) 10.321 TO Allow RECONSTRUCTION of A NON CONFOUNDING
- (a) 10.521 TO ALLOW A LOT AREA / DWELLING UNIT of 1742.5 # WHERE 3500 # 15 REQUIRED
- (3) 10.521 TO Allow A LOT APEA of 3,485# whore 3,500# 15 REQUIRED
- (4) 10.521 TO Allow LOT from TAGE OF 65.71 feet whore 70' is REQUIRED
- (5) 10.521
 TO Allow Building Constange of 39.7% whore 35% is the MAXIMUM Allowed
- (6) 101521
 TO Allow A FIRST YARD Serback of o'
 Whope 5' is REQUIRED
 - (b) 10.501 TO Allow A Right Side Yard of 6' where loter 15 Required.
- (8) 10.521 A LEFT SIDE SETBACK OF 5.78'
 WHERE 10' IS TEQUIRED

VAREIANCE APPLICATION PIAN

VANANCES REQUESTED:

(1) 10.321 RECOUSINGTON OF STWOUND

(a) 10.531 LOT AVEN/ DWECKLYS UNIT OF 1742.5 # WHERE 3,500 # 15 FERRUTED

(3) 10.631 Let Aven of a 485 th where A 4,500 th 15 Requires A 55.21 " where (4) Frontage of 55.21" where

13 Building COURTAGE OF THE 394,790 Whore as the contracts

6) From You'd Gertonch of 6 unhone 6 is REQUITED

(7) Right side Yand of 5' where we is required.

9 £) (A) 36 D 14.5 DINE WAY 14" C. Sociate 146 W3 WW ED WW 8 W 178 W 19 EW 19 E 5 LANGTON

MAP 138 LOT 33 31-33 LANSDOW ST OWNER: NEIL COLON

RECEIVED

nrc 36 3013

BY:_____

CITY OF PORTSMOUTH

RE: APPLICATION OF NEIL COHEN 21-23 LANGDON STREET MAP 138 / LOT 32

APPLICANT'S NARRATIVE



I. THE PROPERTY

21-23 Langdon Street is an existing side-by-side 2 ½ story duplex which was built in 1910. The property consists of a 3,485 square feet, L-shaped lot with 55+/- feet of fronting on Langdon Street. The condition of the two-family structure is such that renovation and gutting, which was originally proposed by the Applicant, is not feasible and demolition (which has been applied for) is the only solution. The property is located in the General Residence C-Zone.

The lot is nonconforming as to frontage, lot size and lot area per dwelling unit.

The structure is non-conforming as to front setback, side setback and lot coverage.

II. THE PROPOSAL

The Applicant proposes to demolish the existing structure and to construct a new two-family structure on virtually the same footprint. The new structure will have a more conforming front setback; and building coverage and the side setback will remain as they now exist..

III. ARGUMENT

The Applicant believes that the five (5) criteria necessary for the Board to grant the required variances are met by the within Application. First and foremost, granting the requested variances will not result in a substantial change to the characteristics of the neighborhood nor will public health, safety and welfare be threatened. In essence, the proposal is to demolish the existing duplex and replace it with a more conforming structure in the approximate same location.

The new structure will be more conforming as to front yard; and building coverage and the right side yard setback will remain the same Because the essential characteristics of the neighborhood will not be substantially altered, and because the public health, safety and welfare will not be threatened, granting the requested variances would be within the spirit and intent of the ordinance and would not be contrary to the public interest.

Granting the requested variances would not result in any diminution in value of surrounding properties. As can be seen from the attached, the new structure and is in keeping with the characteristics of the existing structure as well as those of surrounding properties.

Granting the requested variances would result in substantial justice being done because the hardship upon the owner/applicant were the variances be denied is not outweighed by some benefit to the general public. The proposed structure is certainly in keeping with the characteristics of the neighborhood, is well thought out and attractive and will not in any way deter from the public interest. Thus, to balance the hardship upon the owners were the Application to be denied against a perceived benefit to the general public in denying the variance, it is clear that there is no benefit to the general public in denying the requested variance.

Finally, there is a hardship inherent in the land due to the special conditions of the lot. The lot does not meet the minimum lot size requirements for the District, nor does it meet the frontage requirements. The placement of the existing residence does not conform with setbacks required in today's zoning ordinance. Secondly, there is no fair and substantial relationship between the intent of the ordinance as it is applied to this particular lot. Because of the shape of the lot and the configuration of structures on the lot, the residences existing at 21-23 Langdon Street have adequate light, air and access for emergency vehicles and are situated at a considerable distance from other surrounding residences. The intent of the zoning ordinance in creating setbacks is clearly to provide for adequate light, air and emergency vehicle access and that is accomplished at 21-23 Langdon Street despite the encroachment into the front yard setback. The use is a reasonable use being allowed by the zoning ordinance.

IV. CONCLUSION

In conclusion, it is the Applicant's position that the variances requested meet the five (5) criteria necessary for the Board to grant the variances are met by the within Application and it is respectfully requested that the Application be granted as presented and advertised.

Respectfully submitted,

Dated: December 26, 2018

Bernard W. Pelech, Esq.

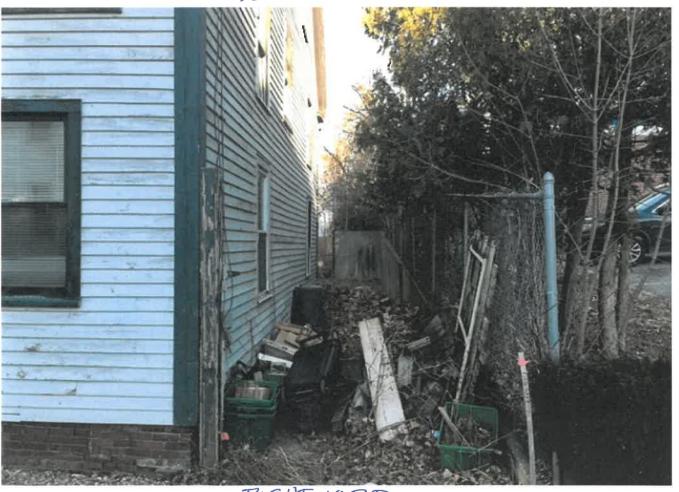
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Address NOTICE+



RIGHT YARD





REARYARD

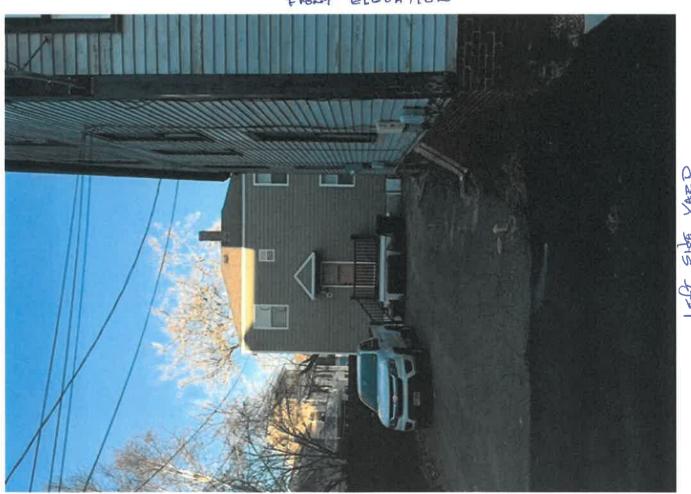




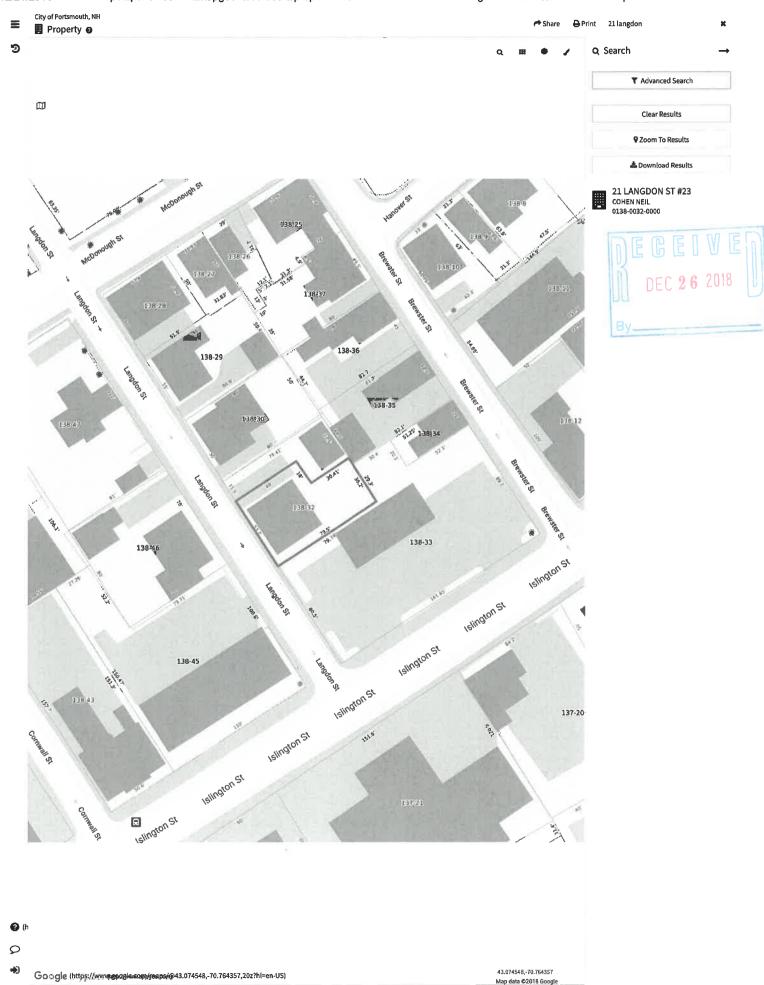
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CZW/ SPIS YED



21 LANGDON ST #23

Location 21 LANGDON ST #23

Mblu 0138/ 0032/ 0000/ /

Acct# 34189

Owner COHEN NEIL

PBN

Assessment \$420,400

Appraisal \$420,400

PID 34189



Current Value

	Appraisal		
Valuation Year	Improvements	Land	Total
2018	\$170,400	\$250,000	\$420,400
	Assessment		
Valuation Year	Improvements	Land	Total
2018	\$170,400	\$250,000	\$420,400

Owner of Record

Owner Co-Owner

COHEN NEIL

Address 21 LANGDON ST

PORTSMOUTH, NH 03801

Sale Price

Certificate

Book & Page 5373/2458

\$150,000

Sale Date 11/02/2012

Instrument 21

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
COHEN NEIL	\$150,000		5373/2458	21	11/02/2012
FINK GÖLDIE	\$0		2241/1961		

Building Information

Building 1 : Section 1

Year Built:

Living Area:

1910 2,590 \$334,162

Replacement Cost: **Building Percent**

Good:

Replacement Cost

Less Depreciation:

\$170,400

Building Attributes		
Field	Description	
Style	Duplex	
Model	Residential	
Grade:	С	
Stories:	2.5	
Occupancy	2	
Exterior Wall 1	Clapboard	
Exterior Wall 2		
Roof Structure:	Gable/Hip	
Roof Cover	Asph/F Gls/Cmp	
Interior Wall 1	Plastered	
interior Wall 2		
nterior Flr 1	Inlaid Sht Gds	
interior Flr 2	Carpet	
Heat Fuel	Gas	
Heat Type:	Warm Air	
AC Type:	None	
Total Bedrooms:	6 Bedrooms	
Total 8thrms:	2	
Total Haif Baths:	0	

Building Photo



(http://images.vgsi.com/photos2/PortsmouthNHPhotos//\00\02\1

Building Layout



(http://images.vgsl.com/photos2/PortsmouthNHPhotos//Sketche:

Building Sub-Areas (sq ft)

<u>Legend</u>



Total Xtra Fixtrs:	2	
Total Rooms:	16	
Bath Style:	Avg Quality	
Kitchen Style:	Avg Quality	
Kitchen Gr		
WB Fireplaces	0	
Extra Openings	0	
Metal Fireplaces	0	
Extra Openings	0	

Code	Description	Gross Area	Living Area
BAS	First Floor	1,295	1,295
FUS	Upper Story, Finished	1,295	1,295
FOP	Porch, Open	30	0
UBM	Basement, Unfinished	1,295	0
UHS	Half Story, Unfinished	1,295	0
		5,210	2,590

Extra Features

Extra Features	<u>Legend</u>
No Data for Extra Features	

Land

Land Use

Land Line Valuation

Use Code 1040
Description TWO FAMILY
Zone GRC

Size (Acres) 0.08 Frontage

Neighborhood 105
Alt Land Appr No

 Depth
 \$250,000

 Assessed Value
 \$250,000

 Appraised Value
 \$250,000

Category

Outbuildings

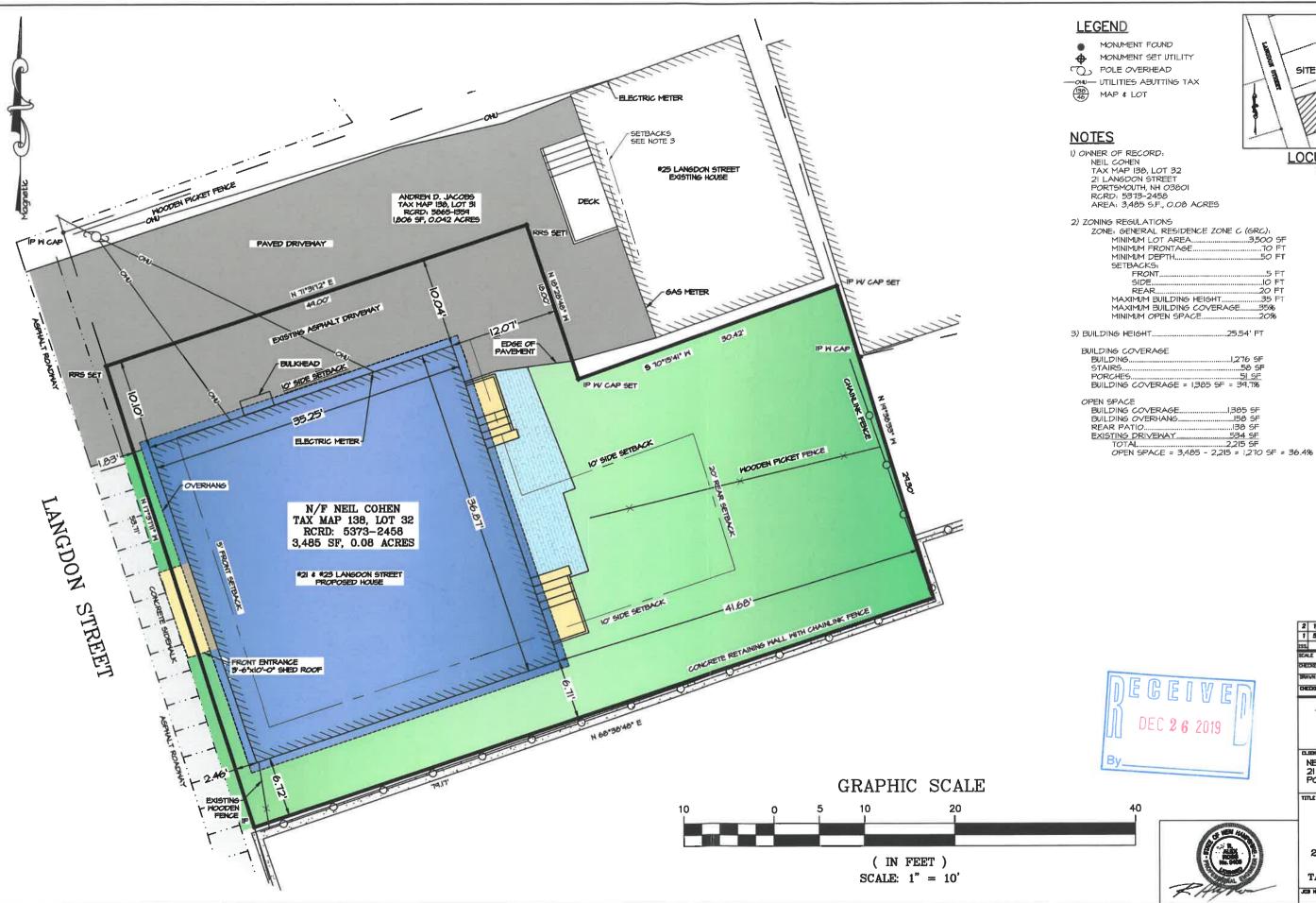
Outbuildings		<u>Legend</u>
No Data for Outbuildin	s	

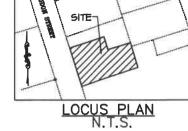
Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$170,400	\$250,000	\$420,400
2017	\$170,400	\$209,300	\$379,700
2016	\$150,700	\$158,100	\$308,800

Assessment				
Valuation Year	Improvements	Land	Total	
2018	\$170,400	\$250,000	\$420,400	
2017	\$170,400	\$209,300	\$379,700	
2016	\$150,700	\$158,100	\$308,800	

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ZONE: GENERAL RESIDENCE ZONE C (GRC):	
MINIMUM LOT AREA	.3,500	SF
MINIMUM FRONTAGE	70	FT
MINIMUM DEPTH	50	FT
SETBACKS:		
FRONT	,5	FT
SIDE		FT
RFAR	20	FT

E I DAUND:	
FRONT	
SIDE	IO F
REAR	20 F
AXIMUM BUILDING HEIGHT	35 F
AXIMUM BUILDING COVERAGE	35%
INIMUM OPEN SPACE	20%

BUILDING COVERAGE	
BUILDING	1,276 SF
STAIRS	58 SF
PORCHES	51 SF
BUILDING COVERAG	E - 1385 GE - 30 7%

Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560 NEIL COHEN 21 LANGDON STREET PORTSMOUTH, N.H. 03801

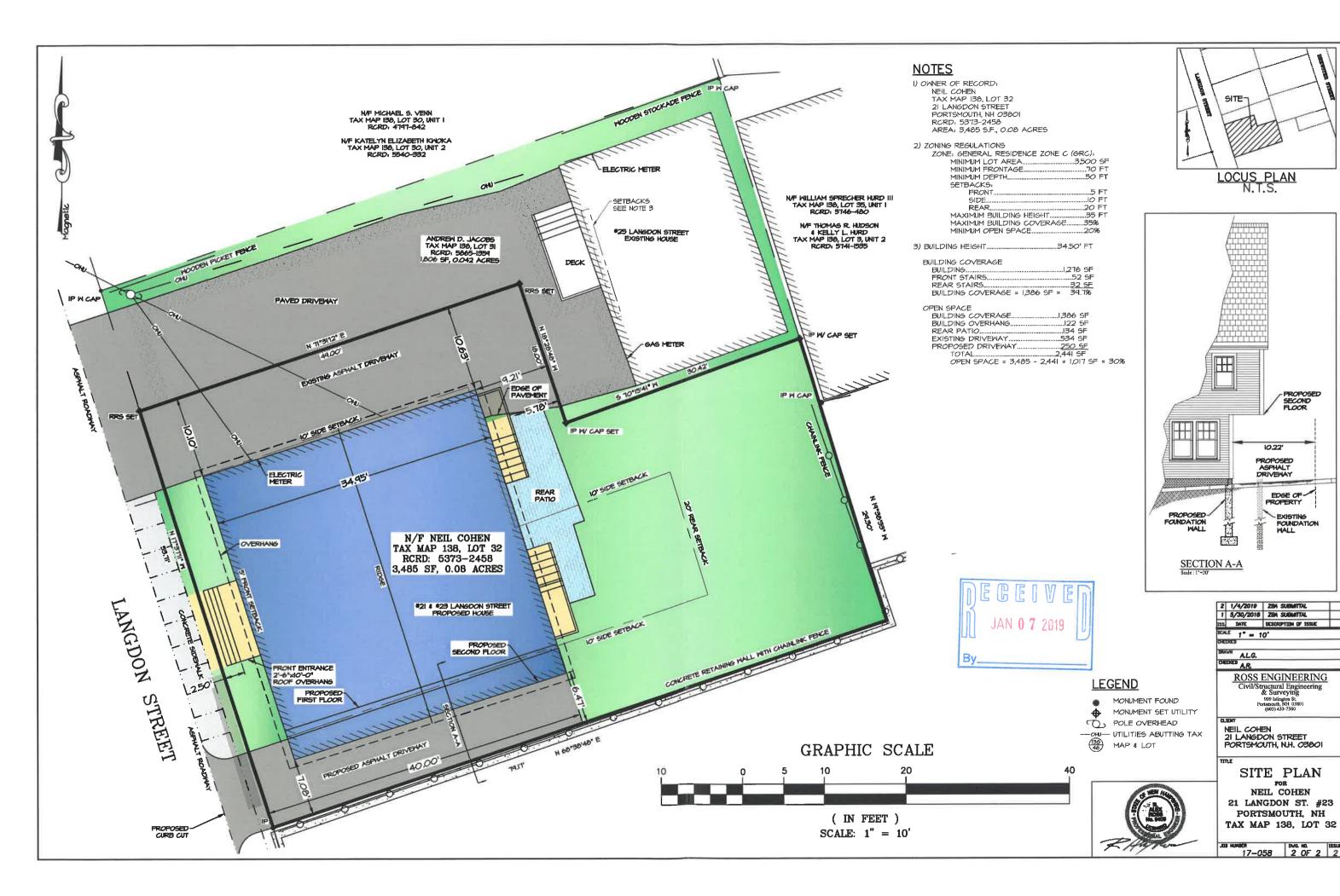
ROSS ENGINEERING

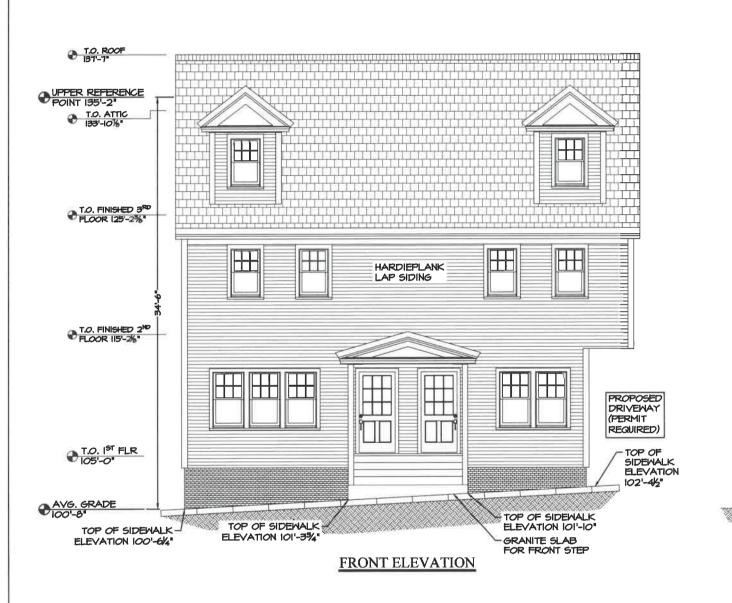
2 1/4/2019 ZBA SUBMITTAL 1 5/30/2018 ZBA SUBMITTAL S. DATE DESCRIPTION OF ISSUE

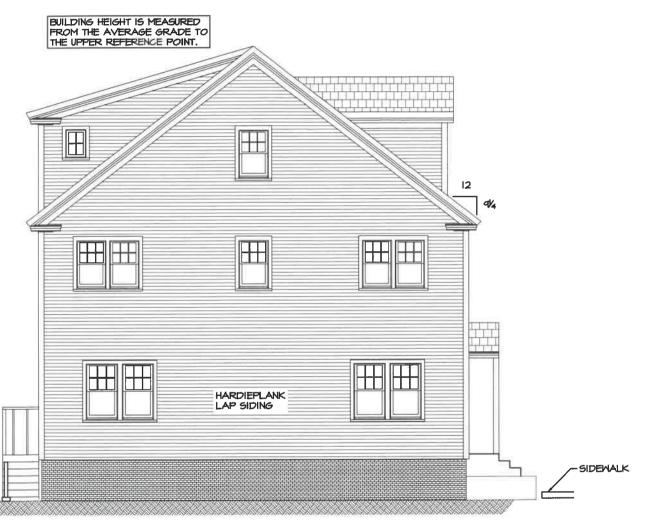
EXISTING

CONDITIONS FOR NEIL COHEN 21 LANGDON ST. #23 PORTSMOUTH, NH TAX MAP 138, LOT 32

17-058 | DWG MG | ISSUE | 1 OF 2 | 2







NORTH ELEVATION



	CHK				
REVISION HISTORY	DESCRIPTION	ZBA SUBMITTAL	ZBA SUBMITTAL		
REVI	DATE	5/30/2018	1/4/2019		
	REV	Ξ	2		

ROSS
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Civil/Structural Engineering
& Surveying
909 Islington St.
Portmouth, NH 03801
(603) 433-7560

NEW HAMPSHIRE PROPOSED ELEVATIONS
COHEN RESIDENCE
21 LANGDON STREET PORTSMOUTH

PREPARED FOR: NEIL COHEN 21 LANGDON STREET PORTSMOUTH, NH 03801

DESIGNED BY:
AG 5/29/2018 DESIGNATION 5/2-1/2

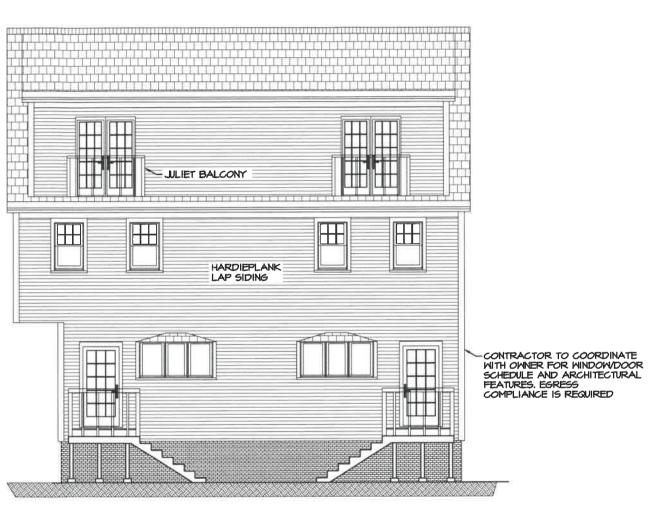
DRAFTED BY:
5/29/2018 A6 5/24/20|8 CHECKED BY: AR 5/30/20|8



JOB #: SCALE: SHEET: DRAWING: 場"=1'-O"



SOUTH ELEVATION



REAR ELEVATION





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COHEN RESIDENCE
21 LANGDON STREET
NEW HAMPSHIRE PROPOSED ELEVATIONS

PREPARED FOR: NEIL COHEN 21 LANGDON STREET PORTSMOUTH, NH 0360

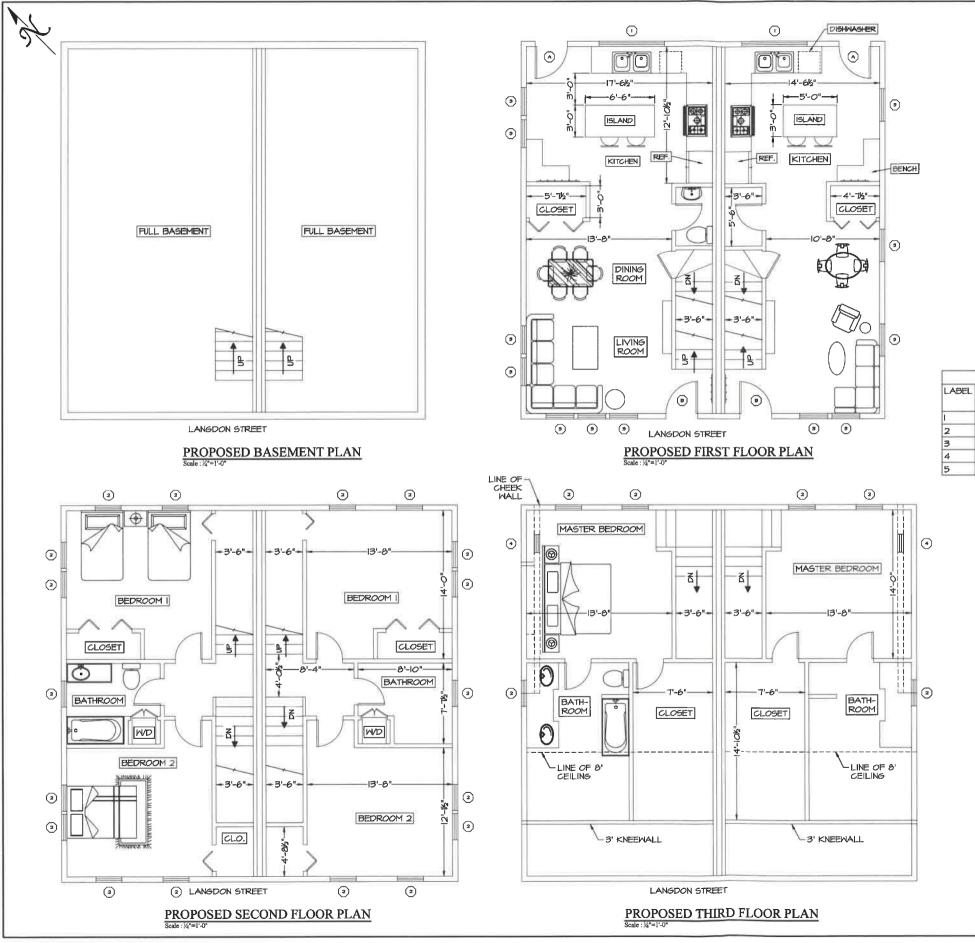
PORTSMOUTH

DESIGNED BY:
A6 5/24/2018
DRAFTED BY:
A6 5/24/2018 DRAr 1... A6 5/24/2... CHECKED BY: 5/30/2018



17-058
%"=1'-O"
2 OF 2

A2





			MINDOM S	SCHEDULE		
LABEL	QTY	DIMENSIONS	DESCRIPTION	MAUNFACT.	COMMENTS	
		R.O.			APARTMENT I	APARTMENT 2
	2	6'-1%"x3'-2"	C33 BOW	ANDERSEN	KITCHEN	KITCHEN
2	24	2'-6%"x4'-0%"	DOUBLE HUNG TM24310	ANDERSEN	2 ND /3 RD FLR	2 ND /3 RD FLR
3	9	2'-816"×4'-876"	DOUBLE HUNG TM2646	ANDERSEN	I ST FLR	I ST FLR
4	2	1'-9"x2'-4%"	CASEMENT CNI25	ANDERSEN	3 RD FLR	3 RD FLR
5	3	1'-4"x3'-05"	AWNING WINDOW ANSI	ANDERSEN		I ST FLR

PROPOSED FLOOR PLANS COHEN RESIDENCE 21 LANGDON STREET NEW HAMPSHIRE

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& Surveying
909 Islington St.
Porfamouth, Net 03801

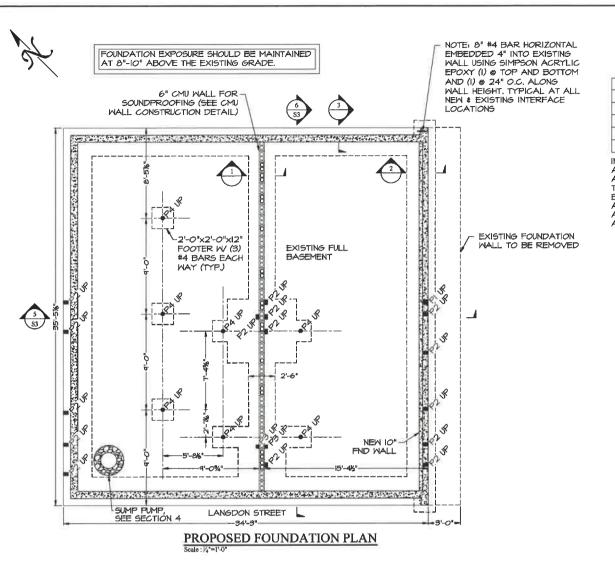
PREPARED FOR:
NEIL COHEN
21 LANGDON STREET
PORTSMOUTH, NH 0380

DESIGNED BY:
DC ||/1/2011
DRAFTED BY:
DC || 3/21/2016
CHECKED BY:
AR || 3/21/2016



JOB#:	17-058
SCALE:	AS NOTED
SHEET:	2 OF 6
DRAWING	3:

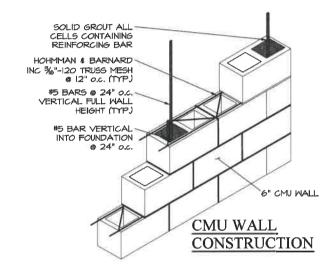
A2

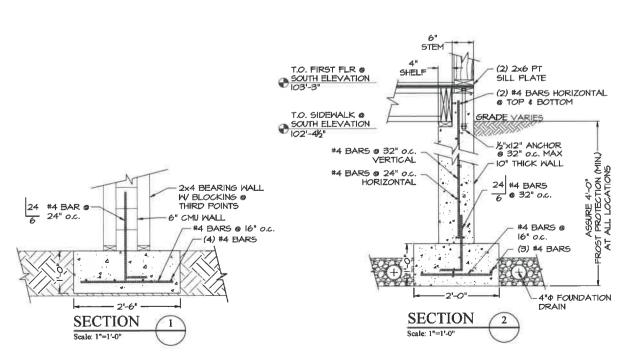


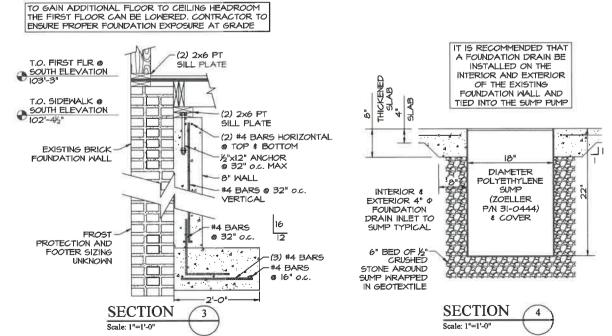
COL	JMN SCHEDULE
	TYPE OF POST
PI	514"x514" VERSA-LAM
P2	3½"x5¼" VERSA-LAM
P3	3½"x3½" VERSA-LAM
P4	4" \$ LALLY COLUMN

INSTALL SOLID BLOCKING BELOW ALL POSTS AT FLOOR CAVITIES. ALL POSTS SHALL BE FASTENED TO WALL SHEATHING OR SOLID BLOCKED AT 4'-O" INTERVALS ALONG THE HEIGHT OF POST. ALL POSTS SHALL HAVE POSITIVE ATTACHMENT









PROPOSED FOUNDATION
COHEN RESIDENCE
21 LANGDON STREET
NEW HAMPSHIRE

ROSS
ENGINEERING
Civil/Structural Engineering
& Surveying
909 Islington St.
Potsmouth, NH 03801

PREPARED FOR:
NEIL COHEN
21 LANGEON STREET
PORTSMOUTH, NH 038X

DESIGNED BY:
DC W/1/20I

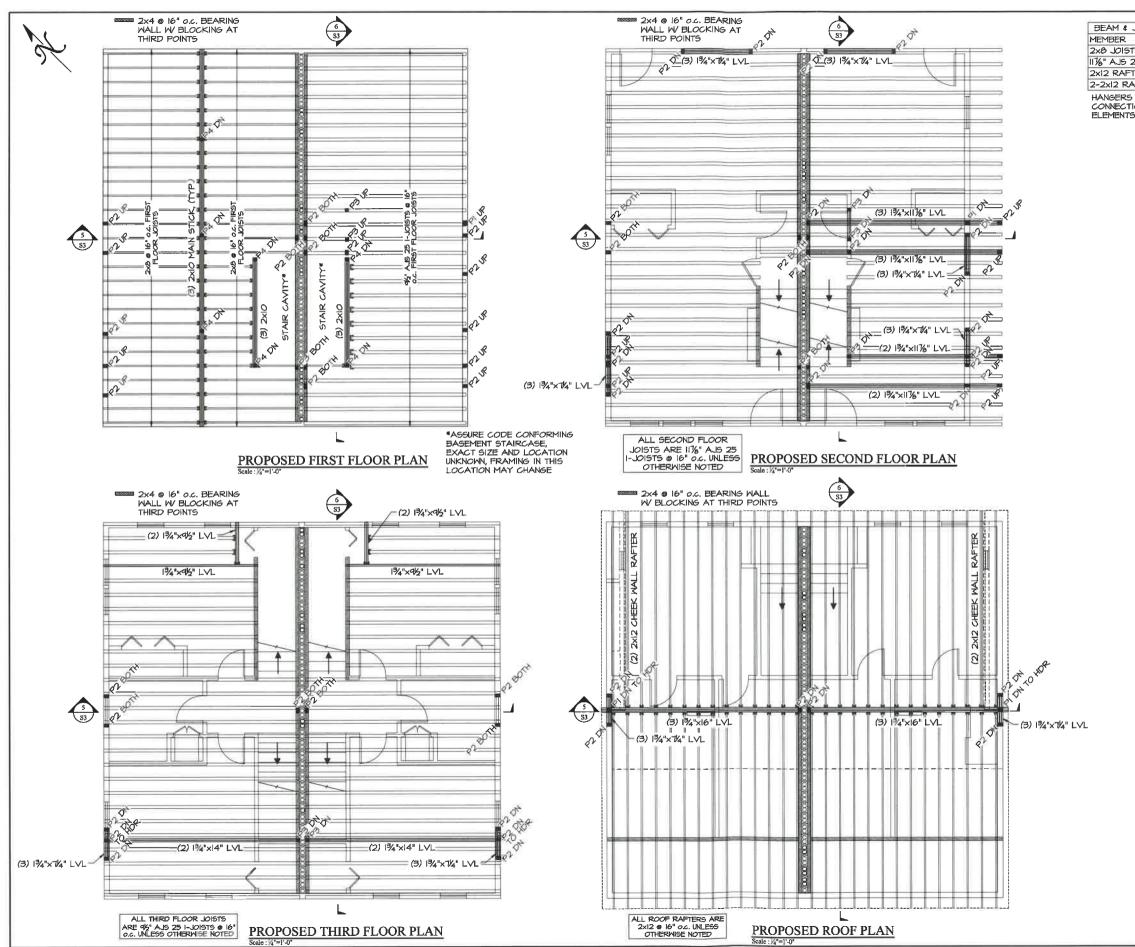
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DC 3/27/20I

CHECKED BY:
AR 3/27/20I



IOB #: IT-056
SCALE: AS NOTED
SHEET: 3 OF 6
DRAWING:

S1



BEAM & JOIST HANG	SER SCHEDULE	FASTENERS	5 REQ'D
MEMBER	SIMPSON HANGER	SUPPORT	MEMBER
2x8 JOISTS	LU528	6-10D	4-10D
11%" AJS 25 JOISTS	1053.56/11.88	12-IOD	
2xl2 RAFTERS	L55U2IO	IO-IOD	7-10Dx15"
2-2xl2 RAFTERS	L55U2!0-2	18-16D	12-IODx15

HANGERS SHALL BE INSTALLED AT ALL FLUSH FRAMED CONNECTIONS, ALL HANGERS & FASTENERS EXPOSED TO THE ELEMENTS SHALL BE STAINLESS STEEL.

COL	UMN SCHEDULE
	TYPE OF POST
PI	51/4"x51/4" VERSA-LAM
P2	36"x54" VERSA-LAM
P3	3½"x3½" VERSA-LAM
P4	4" & LALLY COLUMN

INSTALL SOLID BLOCKING BELOW ALL POSTS AT FLOOR CAVITIES. ALL POSTS SHALL BE FASTENED TO WALL SHEATHING OR SOLID BLOCKED AT 4'-O" INTERVALS ALONG THE HEIGHT OF POST. ALL POSTS SHALL HAVE POSITIVE ATTACHMENT

REVISION HISTORY	DESCRIPTI	FOR PERM			
REV	DATE	4/10/2018			
	REV.	-	1		

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Portsmouth, NH 03801
(603) 433-7560

PROPOSED FRAMING
COHEN RESIDENCE
21 LANGDON STREET
DUTH
NEW HAMPSHIRE

PREPARED FOR: NEIL COHEN 21 LANGDON STREET PORTSMOUTH, NH 0380

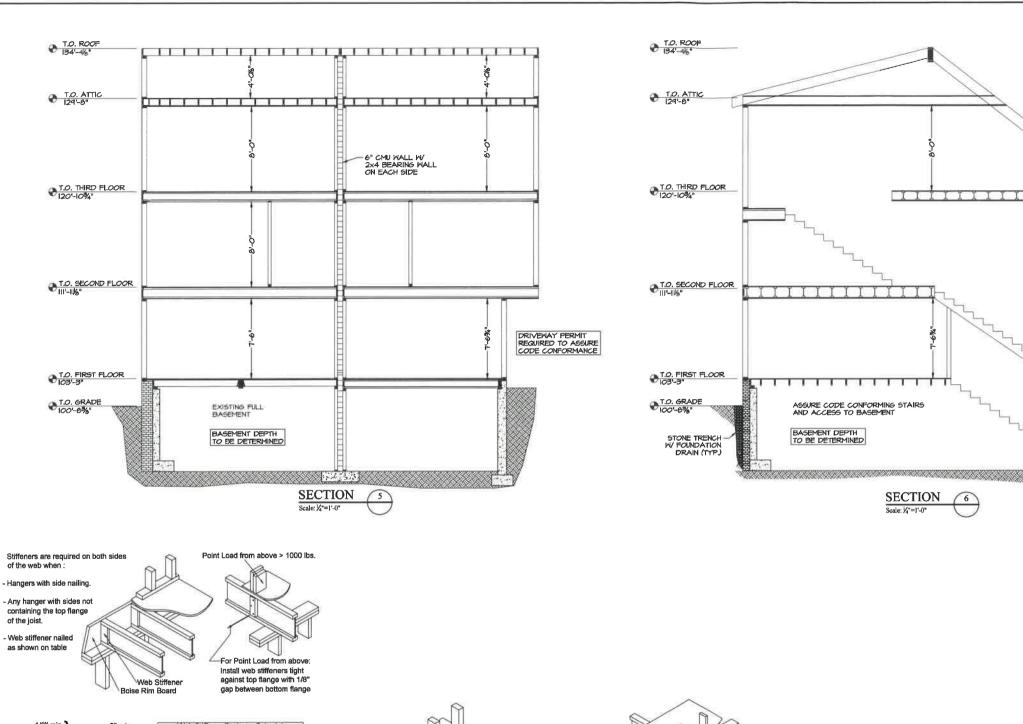
DESIGNED BY: DRAFTED BY: 11/1/2017

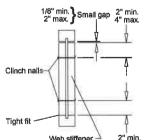
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CHECKED BY:
AR 3/21/2018



JOB #: 17-058 SCALE: AS NOTED SHEET: 4 OF 6 DRAWING:

S2

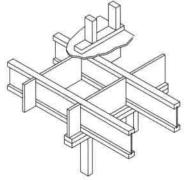




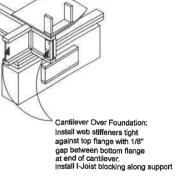
Joist	B	earing L	ocation
Series	Depth	End	Intermediate
AJS 20	9-1/2"	3-16d	3-16d
BCI 90s 2.0	11-7/8"	3-16d	3-16d
DCI 905 2.0	14"	5-16d	5-16d
Series	Stiffene	r Materi	al
Joist Series	Stiffene	r Materi	al
AJS 20	1" Struc	tural Pa	nel Both Side:
BCI 90s 2.0	2x4 SPI	Both S	Sides

Note: Web Stiffeners Required in all Joist that Sit Directly Below a Bearing Wall

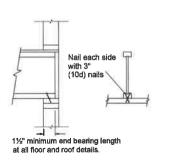
WEB STIFFENER DETAIL Scale: NTS



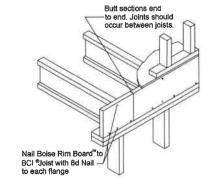
SOLID BLOCKING DETAIL
Scale: NTS



FLOOR JOIST CANTILEVER DETAIL



I-JOIST TO WALL DETAIL



RIM BOARD TO I-JOIST DETAIL

FINISHED FLOOR TO FINISHED FLOOR HEIGHT= 4'-1'%" RISE= 7%" RUN= 10'5%" TOTAL STEPS= 15

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	REV.	DATE	DESCRIPTION	E
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PROPOSED CROSS SECTIONS
COHEN RESIDENCE
21 LANGDON STREET
STSMOUTH
NEW HAMPSHIRE

PREPARED FOR: NEIL COHEN 21 LANGDON STREET PORTSMOUTH, NH 0380

DESIGNED BY: DC ||/1/2011
DRAFTED BY:
DC 3/21/2018
CHECKED BY:
AR 3/21/2018



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JOB #:		ı	1-0	58
SCALE:	AS	N	ОΤ	Ð
SHEET:	5	5	OF	6
DRAWING:				

GENERAL NOTES:

SCOPE OF ENGINEERING SERVICE:

ROSS ENGINEERING IS ONLY RESPONSIBLE FOR THE STRUCTURAL DESIGN AND ENG AS SHOWN ON THESE DRAMINGS.

THE INTENT OF THIS DRAWING SET IS TO DEPICT THE STRUCTURAL MEMBERS REQUIRED.

GENERAL:

- I. ALL WORK SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS.
- "INTERNATIONAL BUILDING CODE" 2009 EDITION.
 "MINIMIM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" ASCE T-10.
 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301-05.
 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 310-11.
- SPECIFICATIONS FURS TWO TO THE STATE OF REINFORCES CONCRETE" ACI 918-11. "NATIONAL DESIGN SPECIFICATION FOR REINFORCES CONSTRUCTION" AF4PA NDS-2005.
- 2. ALL CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS RELATED TO THIS PROJECT. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT BIGINEET PRIOR TO PROCEEDING HITH THE AFFECTED WORK, ANY CHANGES OR SUBSTITUTIONS OF MATERIALS OR DETAILS FROM THOSE INDICATED ON THE CONTRACT DOCUMENTS MAY DE MADE ONLY WITH PRIOR A PPROVAL OF THE PROJECT BIGINEETS.
- ALL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, COORDINATION OF OTHER TRADES AND THE TECHNIQUES TO PRODUCE A SOUND AND GUALITY PROJECT. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL JOB SAFETY DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHEETING, SHORING, AND GUYING STRUCTURES, BARRIERS AND SIGNAGE.
- 5. ALL DETAILS AND NOTES SHOWN ON THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE.
- 6. NO MAIN FRAMING OR STRUCTURAL MEMBERS ARE TO BE MODIFIED, ALTERED, OR CUT WITHOUT THE APPROVAL OF THE PROJECT ENGINEER.

STRUCTURAL LOADS:

- I. LIVE LOADS
 PER INTERNATIONAL BUILDING CODE 2004 EDITION
- ATTIC SPACE (WITHOUT STORAGE)...
- 2. SNOW LOADS
 PER INTERNATIONAL BUILDING CODE 2009 EDITION AND MINIMUM
 DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-05
 EXPOSURE......
- GROUND SNOW LOAD.
- FLAT ROOF SNOW LOAD (ADDITIONAL ALLOWANCES FOR DRIFTING AND SLIDING SNOW)

- MIND LOADS
 PER INTERNATIONAL BUILDING CODE 2009 EDITION AND MINIMUM
 DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-05
 OCCUPANCY CATAGORY
 STRUCTURE TYPE.
- INTERNAL PRESSURE COFFEIGIENT ...GCPI +/-.IB
- GUST EFFECT FACTOR... TOPOGRAPHY FACTOR.

FOUNDATIONS:

- I. FOUNDATION DESIGN IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2020 PSF. VARYING CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE PRO-ECT ENSINEER PRIOR TO WORK BEING CARRIED OUT, IT IS RECOMMENDED THAT THE OWNER HIRE A CONSULTANT TO PERFORM SOIL BORINGS AND ASSOCIATED TESTING TYERIPY THE ASSUMED VALUES. THE CONTRACTOR OR OWNER SHALL ASSUME ALL RESPONSIBILITY IF A GEOTECHNICAL ENGINEER IS NOT RETAINED.
- 2. FOUNDATIONS SHALL BE FOUNDED ON NATURALLY UNDISTURBED SOIL OR CONTROLLED STRUCTURAL FILL HAVING A NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.
- 3. MAINTAIN CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS IN DRY AND UNDISTURBED SUB-GRADE MATERIAL, AS APPLICABLE.
- 4. ALL FOOTINGS EXPOSED TO FROST TO BE PLACED AT A MINIMUM DEPTH OF 4'-O' BELOW FINISH GRADE. ANY DISCREPANCIES OR ADJUSTMENTS TO THE FOOTING ELEVATIONS TO BE BROWNETT TO THE PROJECT BY RICH TO PLACEMENT OF
- ALL FOOTINGS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 6. BACKFILL THE EXCAVATION WITH APPROVED GRANULAR MATERIAL PLACED IN 6 INC LIFTS AND COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT, AS DEFINED ASTM DISST, METHOD D AFTER BOTTOM OF EXCAVATION HAS BEEN APPROVED BY THE PROJECT ENGINEER.
- 7. BACKFILL SHALL BE PLACED TO EGIAL ELEVATIONS ON BOTH SIDES OF FOUNDATION WALLS, WERE BACKFILL IS ON ONE SIDE ONLY, WORK SHALL BE SHORED OR HAVE PERMANENT ADJACENT CONSTRICTION IN PLACE BEFORE BACKFILLING.

CONCRETE NOTES:

- I. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS.

 " INTERNATIONAL BUILDING CODE" 2 2004 EDITION.
 " SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301-05.
 " COLD WEATHER CONCRETINS" ACI 306.
 " "DETALING REINFORCHING STEEL" ACI 315-05.

- DELIALING REINFORCHES STEEL" ALI STOPPORCED CONCRETE" ALI 318-11.

 "BUILDING CODE REGUIREMENTS FOR PLAIN CONCRETE" ALI 322-05.

 "FORMMORK" ALI 347-05.

- 3. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60. EXCEPT O. NEITH OF THE STALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60. EXCEPT TIES AND STITRING MAY BE GRADE 40. MELDED WIRE FABRIC (MWF) SHALL BE SHEETS ONLY, IN ACCORDANCE WITH ASTM A185. LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3'-O' ON CENTER.
- 4. CEMENT MIXTURE FOR CONCRETE SHALL CONTAIN TYPE II CEMENT CONFORMING WITH ASTM-C 150. THE WATER CEMENT RATIO SHALL NOT EXCEED 0.45.
- 5. AGGREGATE SHALL BE SOUND AND CONFORM TO THE PROVISIONS OF ASTM C33. COARSE AGGREGATE SIZE SHALL NOT EXCEED %1". (NO. 67)
- 6. PLACING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 304-05 AND SHALL BE A CONTINUOUS OPERATION AVOIDING ANY HORIZONTAL JOINTS. FOR MYHORK SHALL BE ASMOOTH PLYMOOD FORMS FOR SPOSED SLABS OR VERTICAL SURFACES. BOARD FORMS FOR FOOTHINGS OR INEXPOSED CONCRETE SURFACES. NO EARTH FORMS SHALL BE PERMITTED. ALL CONCRETE SHALL BE VIBRATED.

CONCRETE (CONTINUED):

- PLACE REINFORCING USING STANDARD BAR SUPPORTS TO PROVIDE PROPER CLEARANCE AND PREVENT DISPLACEMENT DURING CONCRETE OPERATIONS, LAP
- REINFORCING BARS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST EDITION THE CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
- 9. PROPERLY BRACE AND SHORE FORMWORK TO MAINTAIN ALIGNMENT AND TOLERANCES IN ACCORDANCE WITH ACI 347-05.
- IO. PROVIDE THO \$5 BARS EACH SIDE OF ALL OPENINGS IN MALLS AND SLABS. BARS TO EXTEND 24" BEYOND EIGHE OF OPENINGS, (FOR SIZE AND LOCATION OF OPENINGS, SEE ARCHITECTRIAL, MECHANICAL AND ELECTRICAL DRAMINGS).
- . MINIMUM CONCRETE COVER REGUIREMENTS OVER REINFORCING STEEL ARE AS FOLLOWS:

 FORMED CONCRETE EXPOSED TO EARTH, MEATHER, OR WATER 2*

 UNFORMED CONCRETE PLACED AGAINST THE EARTH 3*

 UNFORMED CONCRETE PLACED AGAINST VAPOR BARRIER 2*

 SLABS ON GRADE 1* FROM TOP

 SLABS ON GRADE 1* FROM TOP

- 12. DETAILS NOT SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL (ACI 315-05).
- IS. CONTRACTOR TO NOTIFY THE OWNER'S ENGINEER 40 HOURS IN ADVANCE OF CONCRETE PLACEMENT SO THAT THE FORMWORK AND REINFORCING MAY BE INSPECTED PRIOR TO BEING CONTRED.
- 14. CONSULT PROJECT OWNER FOR SURFACE FINISHES REQUIRED FOR CONCRETE SLAB.
- IS. UNDERSLAB VAPOR BARRIER SHALL BE AS MANUFACTURED BY STEED INDUSTRIES OR EQUAL CONSISTING OF ID MILE OTEGO WRAP VAPOR BARRIER SEAMS SHALL BE OVERLAPPED A MINIMAY OF 6" AND TAPED MITH STEED VAPOR BARRIER TAPE OR EQUAL
- 16. QUALITY CONTROL SPECIFICATIONS ARE AS POLLOWS.

 18. CONTRACTOR SHALL MAKE PROVISIONS TO HAVE FOUR CYLINDERS CAST FOR EACH 50 CUBIC YARDS OR FOR ANY ONE DAYS OPERATION.

 18. TESTING LABORATORY SHALL BE RESPONSIBLE FOR MAKING AND CURING SPECIMENS IN CONFORMANCE TO ASTM CSI AND TESTING SPECIMENS IN ACCORDANCE WITH ASTM C24.

 19. ALL TESTING ASSOCIATED WITH CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER IT OF "INTERNATIONAL BUILDING CODE" 2004 EDITION.

 19. THE COSTS OF ALL TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE OWNER.

WOOD FRAMING:

- I. ALL MOOD FRAMING SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS..

 * "INTERNATIONAL BUILDING CODE 2009 EDITION"

 * "NATIONAL DESIGN SPECIFICATION FOR MOOD CONSTRUCTION" AF&PA
- ALL FRAMING MEMBERS SHALL BE No.1 / No. 2 OR BETTER SPRUCE-PINE-FIR WITH A AXIMUM MOISTURE CONTENT OF 19% UNLESS NOTED OTHERWISE. -- BASE DESIGN VALUES.
- Pb=875 (1,000 REP) PSI, Fv=70 PSI, E=1,400 KSI
- 3. ALL LIMBER AND PLYMOOD SHALL BE GRADE-STAMPED BY THE APPROPRIATE MANIFACTURER'S ASSOCIATION FOR THE APPROPRIATE USE.
- UND THE APPROPRIATE USE.

 ROOF: ¹²⁵₂₂ SQUARE EDGE PLYWOOD W FRAMING CLIPS

 FLOORS: ²³₂₂ TONGUE & GROOVE PLYWOOD

 WALLS: ¹⁵₂₂ PLYWOOD

- 4. ROOF AND MALL SHEATHING SHALL COMPLY WITH THE FOLLOWING:

 APA RATED SHEATHING, EXPOSURE I OR 2

 ROOF SHEATHING SHALL HAVE A 40/20 SPAN RATING

 ROOF SHEATHING SHALL HAVE (I) PANEL EDGE CLIP BETWEEN EACH SUPPORT
- A & EXPANSION GAP SHALL BE LEFT BETWEEN ALL PANELS AS REQUIRED BY APA
- SHEETS SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS
- 5. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR EARTH SHALL BE PRESSURE TREATED (PT) WITH A CCA-C 0.40 PROCESS.
- $\bf 6.$ ALL FRAMING SHALL BE PLIMB, TRUE, AND ADEQUATELY BRACED SUCH THAT THE STRUCTURE IS RIGID AND BEARS FULLY WITHOUT THE USE OF SHIMS.
- 7. SPIKE TOSETHER ALL FRAMING MEMBERS WHICH ARE BUILT UP WITH I6d NAILS AT I6' O.C. MAX. WILESS NOTED OTHERWISE. PROVIDE PLYMOOD FILLERS BETMEEN 2x MEMBERS TO MATCH NAULT THICKNESS.
- $\delta.$ PROVIDE A MINIMUM OF TWO 2x STUDS AT THE END OF ALL BUILT-UP 2x BEAMS AND LVL BEAMS, UNLESS NOTED OTHERWISE.
- 9. CORNERS OF EXTERIOR WALLS SHALL HAVE A MINIMUM OF (3) 2x STUDS
- IO. PROVIDE SOLID BLOCKING INDER ALL CONCENTRATED LOADS, PROVIDE CONTINUITY TO TOP OF FOUNDATION WALL OR FOOTING.
- II. PROVIDE A DOUBLE TOP PLATE FOR ALL EXTERIOR WALLS W/ SPLICES STAGGERED BY 4'-O" MIN.
- 12. NON-STRUCTURAL INTERIOR WALLS SHALL BE CONSTRUCTED W/ 2x4 STUDS.

- B. ENGINEERED LIMBER PRODUCTS SHALL BE MANIFACTURED BY BOISE CASCADE OR APPROVED BOJAL, INCLIDING ALL I-JOISTS AND LVL'S. ALL BOISE CASCADE PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARD DETAILS AS PUBLISHED BY BOISE CASCADE.

 BASE DESIGN VALUES:

 IN; MIDTE VERSA-LAM BEAMS GRADE 3100 Fb SP Fb=3100 Fb; Fv=205 FSI, E=2000 KSI

 34; AND WIDTE VERSA-LAM DEAMS GRADE 3100 Fb SP Fb=3100 FSI, Fv=205 FSI, E=2000 KSI

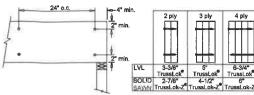
 VERSA-LAM COLUMNS GRADE 3100 Fb SP Fb=3100 PSI, Fv=105 FSI, E=2000 KSI
- 14. FASTENERS SHALL COMPLY WITH THE FOLLOWING.

 NAILS SHALL BE COMMON WIRE NAILS, GALVANIZED @ EXPOSED FRAMING.

 BOLTS, NUTS AND WASHERS SHALL BE ASTM A-307, HOT DIP GALVANIZED AT EXTERIOR EXPOSED FRAMING CONPORTING TO ASTM A153.

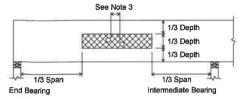
 METAL CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON OR APPROVED FOILID.
- STAINLESS STEEL NAILS FOR ATTACHING EXTERIOR TRIM AND SIDING

 ALL WOOD MEMBERS TO BE NAILED IN ACCORDANCE WITH THE INTERNATIONAL
 BUILDING CODE 2009 EDITION APPENDIX C
- IS, PLYWOOD SHALL BE NAILED AT 6° OC AT ALL JOINTS AND EDGES (AT IO" OC AT OTHER SUPPORTS, PLYMOOD SUB-FLOORS SHALL BE GLUED TO JOISTS, BEFORE NAILING WITH CONSTRUCTION ADDIESIVE.
- I6. LIGHTNEIGHT LALLY COLUMNS 4" OUTER DIAMETER I6 GAGE STEEL PIPE CONFORMING OR SIMPSON 14" X4"2" SDS TO ASTM ASIS FILLED WITH CONCRETE HAVING A MINIMAM COMPRESSIVE STRENGTH OF STRONG DRIVE SCREINS 2000 PSI AT 28 DAYS. (NULESS OTHERWISE NOTED.)
- 17. PROVIDE DOUBLE JOISTS UNDER PARALLEL PARTITION WALLS AT ALL FLOORS UNLESS
- I.O. NEA PRESSURE TREATING PROCESSES REQUIRED FOR WOOD ARE HIGHLY CORROSEE NOTE 5, AND MANUFACTURER'S RECOMMENDATIONS FOR FASTENING TO PT WOOD



- All TrussLok[®] screws may be installed from one side of multi-ply Versa-Lam beams - Bring underside of washer-head flush with wood surface. Do not countersink.

BUILT UP BEAM DETAIL



- Square and rectangular holes are NOT permitted.
- Round holes may be drilled or cut with a hole saw anywhere within the hatched area of the beam.

 The horizontal distance between adjacent holes must be at least two times the
- diameter of the larger hole.
- Do not drill more than three access holes in any four foot long section of beam

Beam Depth	5 1/2"	7 1/4"	9 1/4" +
Maximum Hole Diameter	3/4"	1"	2"

- These limitations apply to holes drilled for plumbing or wiring access only. The size and location of holes drilled for fasteners are governed by the provisions of the National Design Specification® for Wood Construction. the National Design Specification® for Wood Construction.

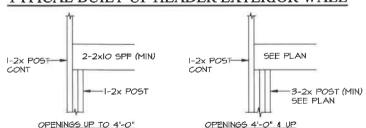
 Beams deflect under load. Size holes to provide clearance where required
- This hole chart is valid for beams supporting uniform load only. For beams porting concentrated loads or for beams with larger holes, contact Boise

ALLOWABLE HOLES IN LVL BEAMS



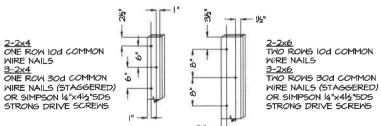
UNLESS OTHERWISE NOTED

TYPICAL BUILT-UP HEADER EXTERIOR WALL

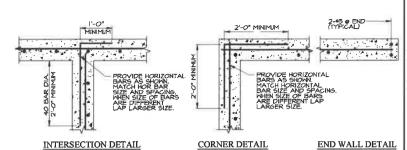


UNLESS OTHERWISE NOTED

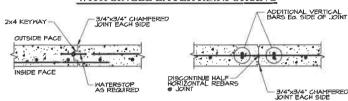
TYPICAL BUILT-UP HEADER INTERIOR WALL



TYPICAL BUILT-UP POST

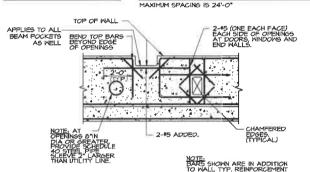


TYPICAL CONCRETE WALL DETAIL WITH SINGLE LAYER REINFORCING



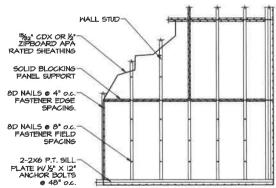
CONSTRUCTION JOINT AT CONCRETE WALL

CONTROL JOINT W/ SINGLE REINFORCING AT CONCRETE WALL



TYPICAL ADDITIONAL REINFORCING AT OPENINGS AND BREAKS IN CONCRETE WALLS





NO PLYMOOD JOINTS SHALL OCCUR WITHIN 2 FT OF PLATE LINE. ALL NAILS TO BE DRIVEN IN FLUSH W PLYWOOD SURFACE. DO NOT FRACTURE SURFACE OF SHEATHING W NAIL HEADS.

APPLIES TO ALL EXTERIOR WALLS AND SPECIFIED INTERIOR WALLS

WALL SHEATHING NAILING PATTERN Scale: 1/2"=1'-0"

ROSS
ENGINEERING
Civil/Structural Engineering
& Surveying
909 Islington St.
Portsmouth, 17460

NOTE SIDENCE STREET

STRUCTURAL RE COHEN 21

NEIL COHEN 21 LANSDON STREET PORTSMOUTH, NH 030 DESIGNED BY: DRAFTED BY: 3/27/201

PREPARED FOR:

CHECKED BY: 3/27/20



17-05 SCALE: AS NOTED SHEET: 6 OF 6 DRAWING