

DRAWING LEGEND	
DRAWN AS	DESCRIPTION
	(E) STUD WALL TO REMAIN
	(N) DECKING
(N)	NEW
(E)	EXISTING
TYP.	TYPICAL

**IMPORTANT NOTE** :-  
 CONTRACTOR TO FIELD VERIFY EXISTING FRAMING CONDITION PRIOR TO COMMENCEMENT OF WORK. CONTACT SOIL & STRUCTURE CONSULTING, INC. FOR CONSULTATION IF ANY DISCREPANCY IS FOUND BETWEEN ACTUAL CONDITION AND THAT SHOWN IN THESE DRAWINGS. REVISED DRAWINGS WILL BE ISSUED BASED ON THAT.

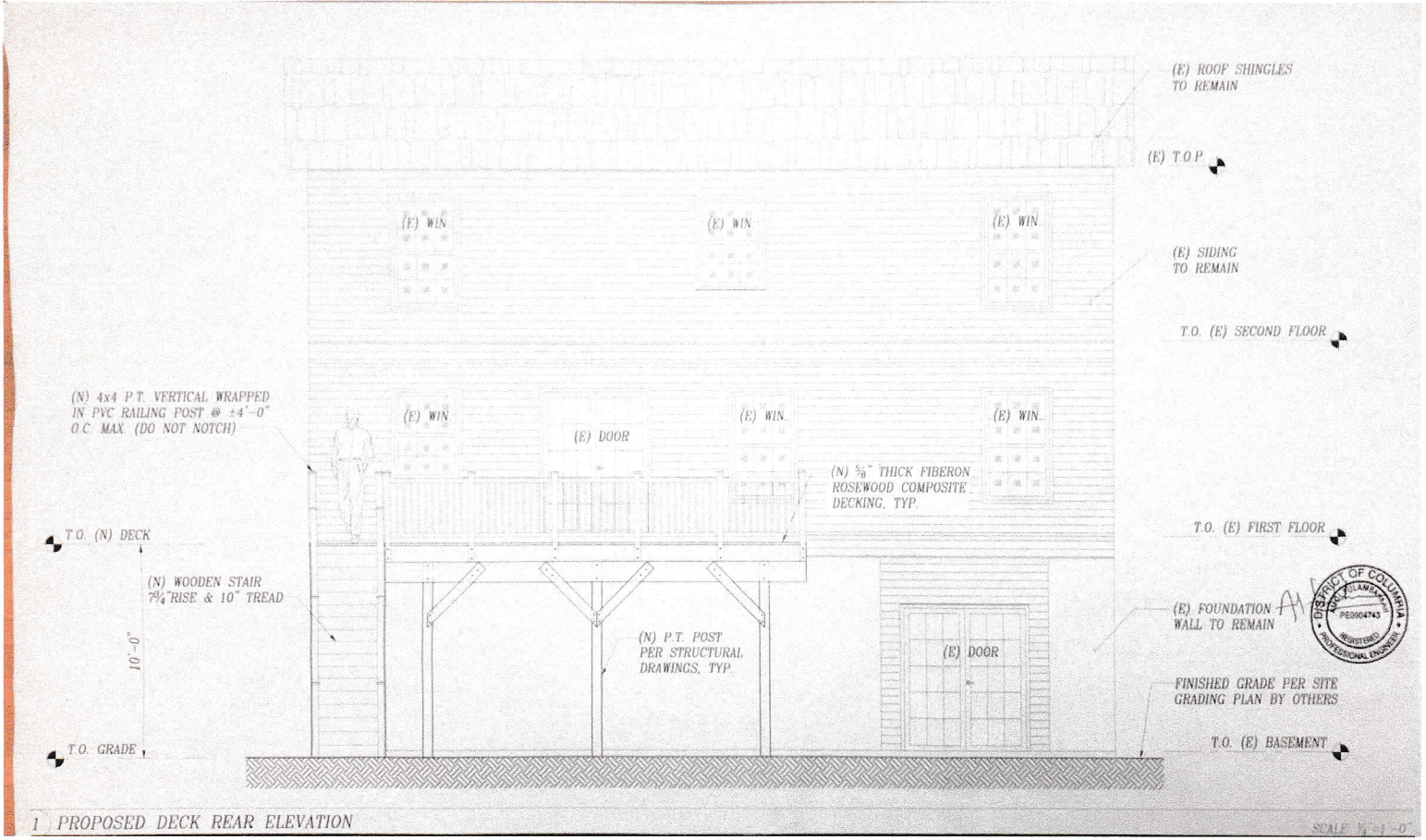
PARTIAL PROPOSED DECK PLAN

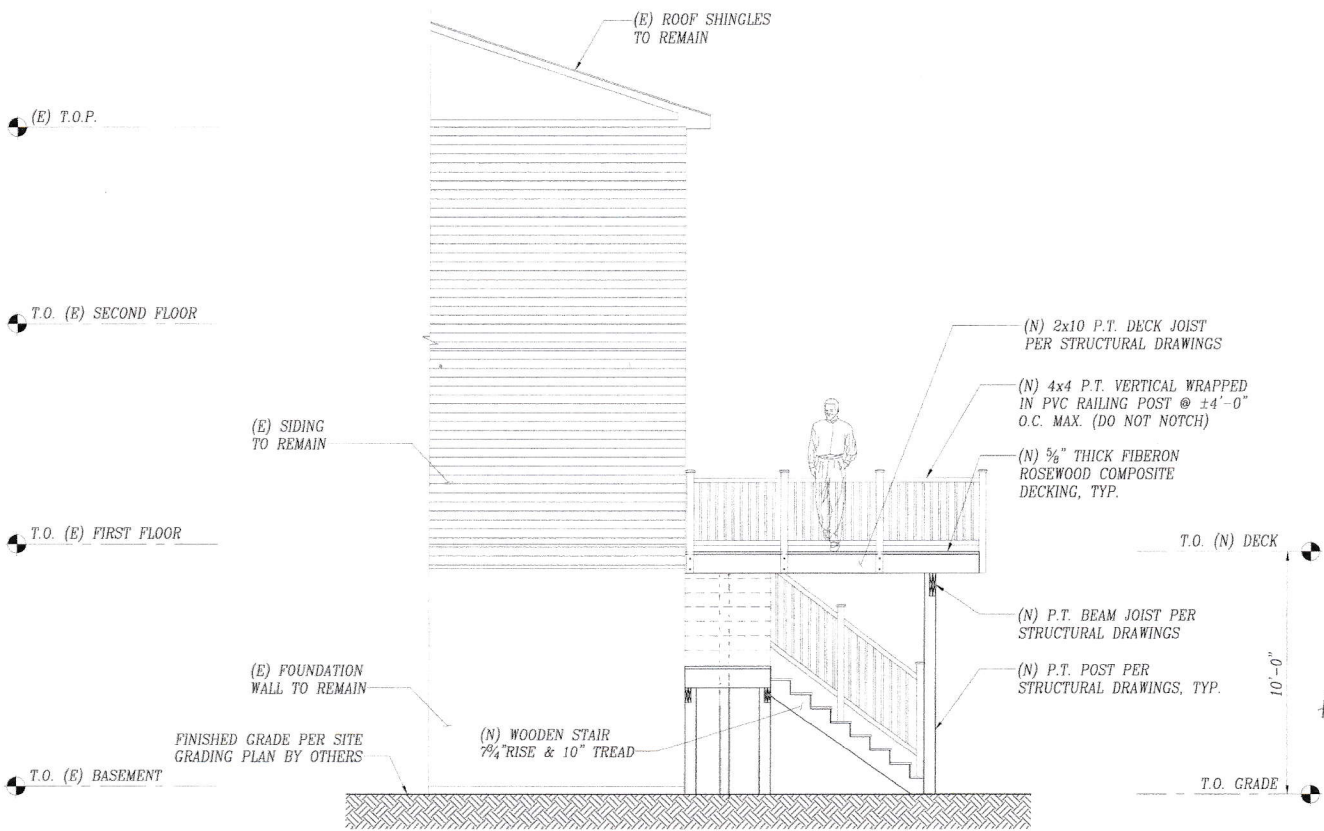
SCALE: 1/4" = 1'-0"



SHEET NO	DATE	REVISION		PARTIAL PROPOSED DECK PLAN
		REV. NO.	DATE	
A.01	07/24/18			ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC CLIENT: KEVIN THOMAS
	AS NOTED	1	09/14/18	
	DRAWN BY ANDY			
	CHECKED BY ANDY			

**SOIL & STRUCTURE CONSULTING, INC.**  
 STRUCTURAL - GEOTECHNICAL - CIVIL  
 1889 PRESTON WHITE DRIVE, SUITE 11  
 RESTON, VA 20191  
 (703) 391-8911 (703) 995-4680 FAX  
 www.soilandstructure.com





PROPOSED DECK RIGHT SIDE ELEVATION

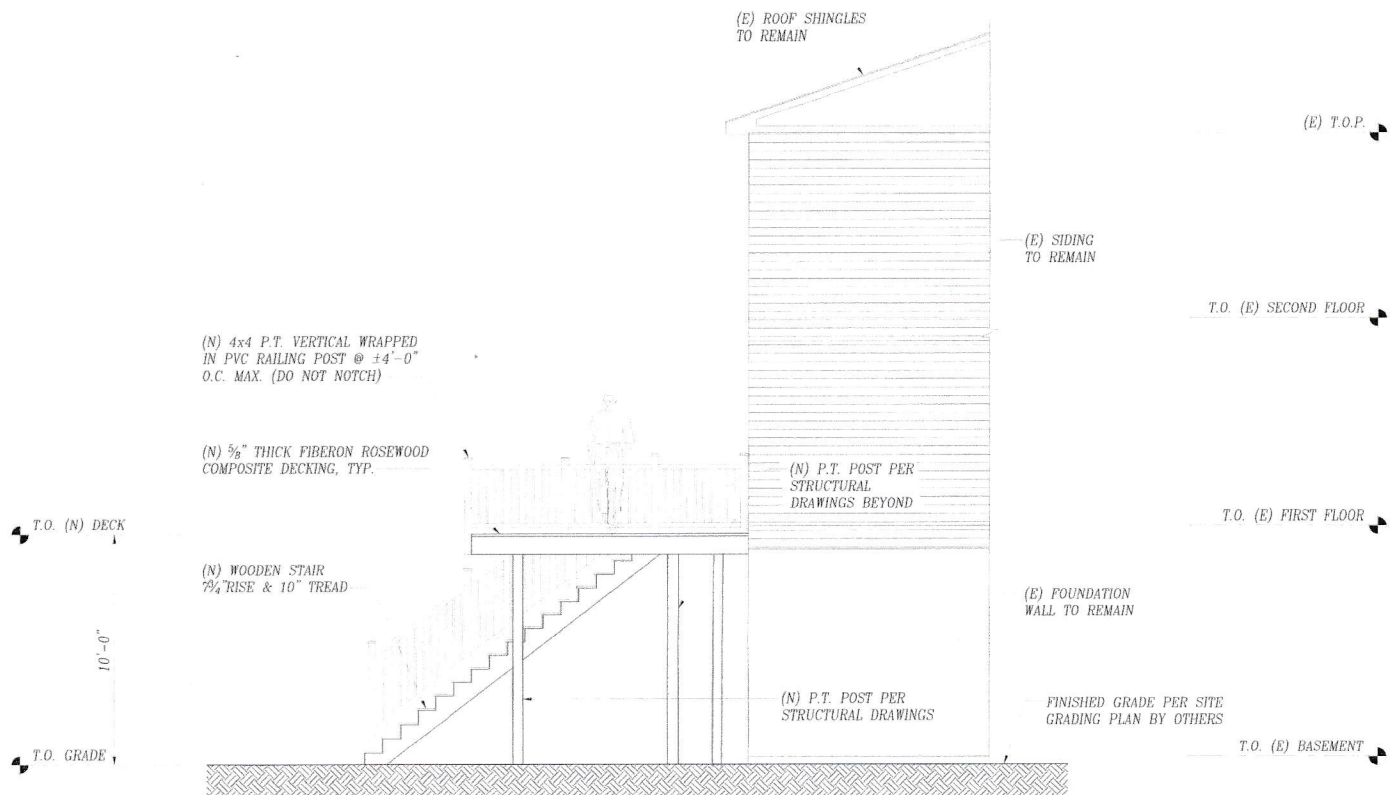
SCALE: 1/8"=1'

T NO	DATE	06/19/18	REVISION	
	SCALE	AS NOTED	REV. NO.	DATE
03	DRAWN BY	ANDY	-	-
	CHECKED BY	ANDY	-	-

PROPOSED DECK RIGHT SIDE ELEVATION	
ADDRESS: 1023 COOK DRIVE SE., WASHINGTON, DC	
CLIENT: KEVIN THOMAS	

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1 PROPOSED DECK LEFT SIDE ELEVATION

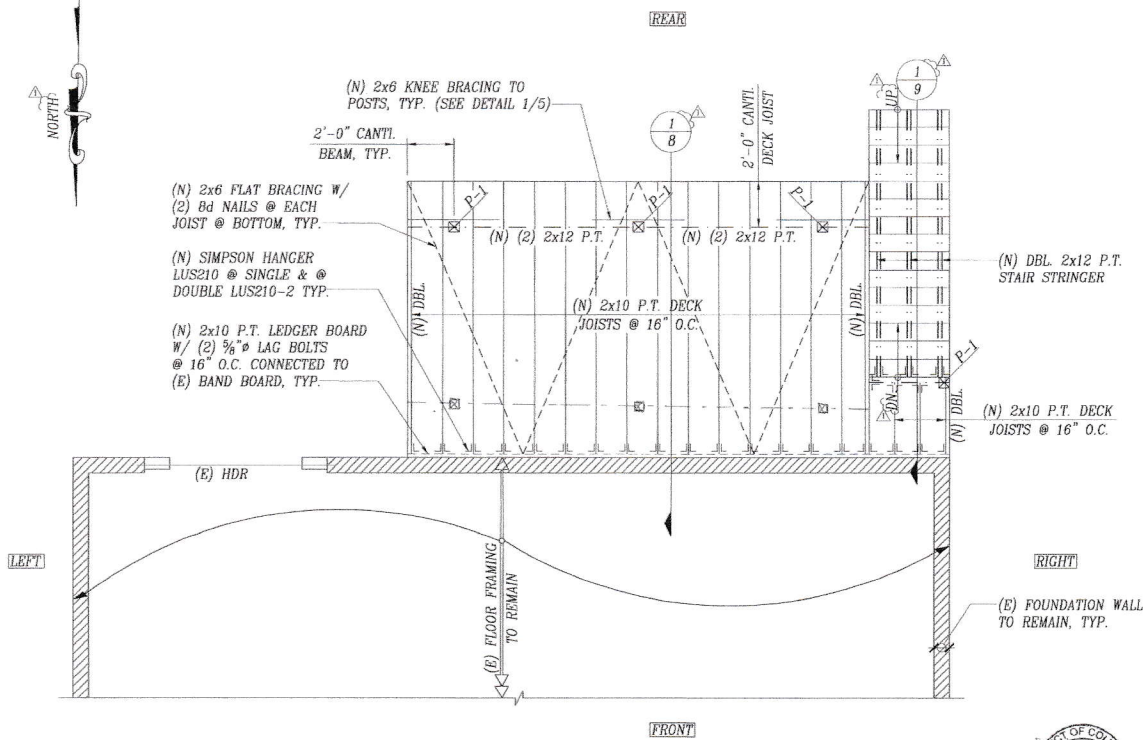
SCALE: 1/4" = 1'-0"

SHEET NO	DATE	07/24/18	REVISION	
	SCALE	AS NOTED	REV. NO.	DATE
A.04	DRAWN BY	ANDY	-	-
	CHECKED BY	ANDY	-	-
			-	-

PROPOSED DECK LEFT SIDE ELEVATION	
ADDRESS:	1021 COOK DRIVE SE., WASHINGTON, DC
CLIENT:	KEVIN THOMAS


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**PROPOSED DECK FRAMING PLAN NOTES :-**

- \* THE GOVERNING CODE IS INTERNATIONAL REBUILDING CODE (IBC)-2012 W/ DISTRICT OF COLUMBIA BUILDING CODE (DC)-2013 EDITION AND/OR LOCAL COUNTY CODE AMMENDMENTS AND/OR ORDINANCES.
- \* PROPOSED DECK FRAMING SHALL BE DESIGNED FOR FOLLOWING PARAMETER:-

**DESIGN LOADS :-**  
 DECK LIVE LOAD = 50 PSF  
 DECK DEAD LOAD = 10 PSF

**DEFLECTION :-**  
 LIVE LOAD DEFLECTION = L/360  
 TOTAL LOAD DEFLECTION = L/240

DRAWING LEGEND	
DRAWN AS	DESCRIPTION
	(E) FOUNDATION WALL TO REMAIN
	(N) BEAM
	(N) DECK JOISTS
	(N) 6x6 P.T. POST
(N)	NEW
(E)	EXISTING
DBL	(N) DOUBLE
TYP.	TYPICAL

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POST SCHEDULE	
P-1	(N) 6x6 P.T. SP #2

PARTIAL PROPOSED DECK FLOOR FRAMING PLAN

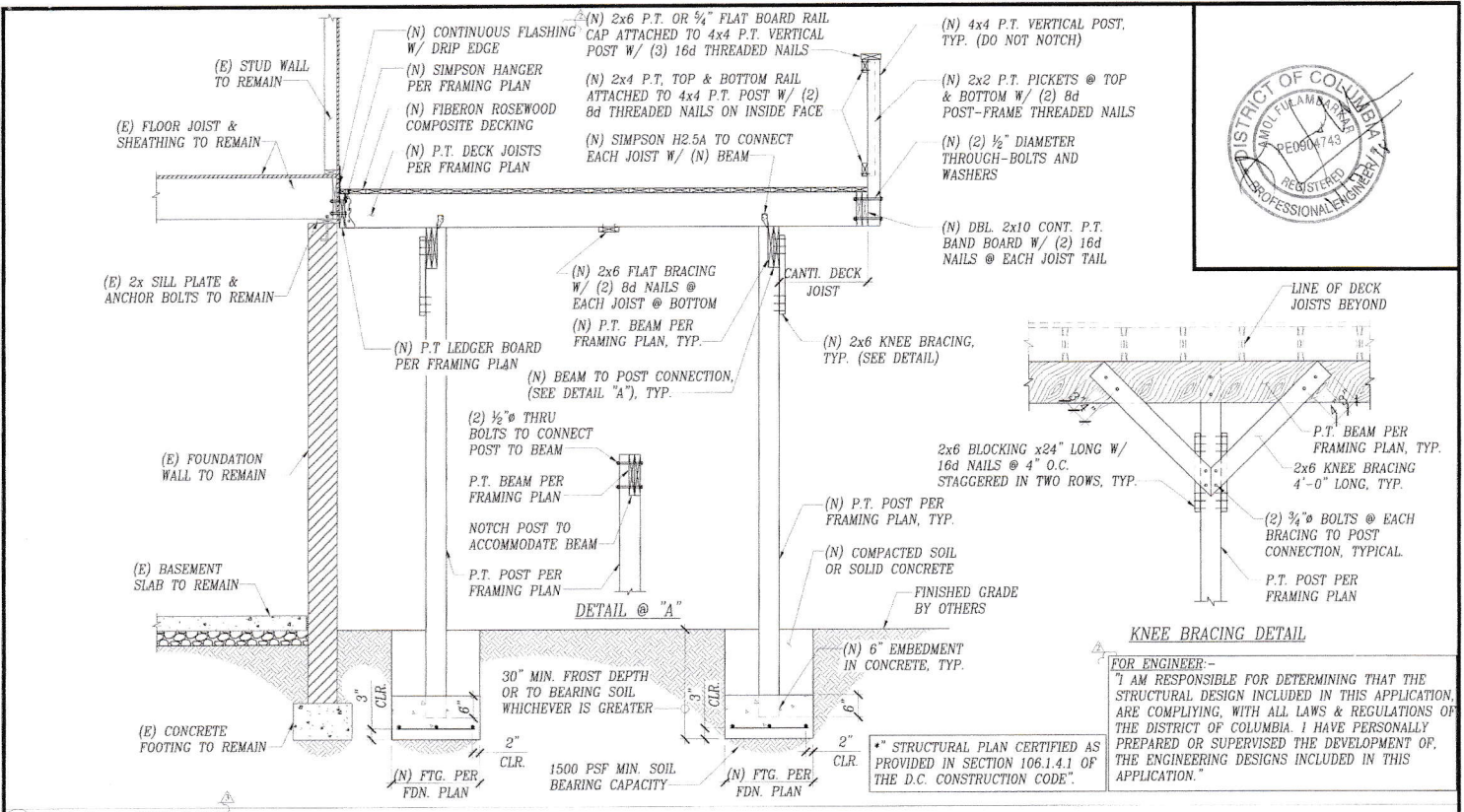
SCALE: 1/4" = 1'-0"



SHEET NO	DATE	07/24/18	REVISION		PARTIAL PROPOSED DECK FLOOR FRAMING PLAN
			REV. NO.	DATE	
A.06	SCALE	AS NOTED	-	-	ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC
	DRAWN BY	ANDY	09/14/18	-	
	CHECKED BY	ANDY	-	-	

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FOR ENGINEER -  
 I AM RESPONSIBLE FOR DETERMINING THAT THE STRUCTURAL DESIGN INCLUDED IN THIS APPLICATION, ARE COMPLYING, WITH ALL LAWS & REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED OR SUPERVISED THE DEVELOPMENT OF THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION.

\* STRUCTURAL PLAN CERTIFIED AS PROVIDED IN SECTION 106.1.4.1 OF THE D.C. CONSTRUCTION CODE.

1) DETAIL @ NEW DECK

DATE	07/24/18	REVISION
SCALE	AS NOTED	REV. NO. DATE
DRAWN BY	ANDY	1 09/14/18
CHECKED BY	ANDY	2 10/29/18
		3 11/05/18

DETAIL @ NEW DECK	
ADDRESS:	1021 COOK DRIVE SE, WASHINGTON, DC
CLIENT:	KEVIN THOMAS



1889 PRESTON WHITE DRIVE, SUITE 104  
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SHEET NO  
 A.07

SCALE: 3/4" = 1'-0"





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SUITE 104  
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FAX (703) 995-4680  
www.soilandstructure.com  
andy@soilandstructure.com

October 18<sup>th</sup>, 2018

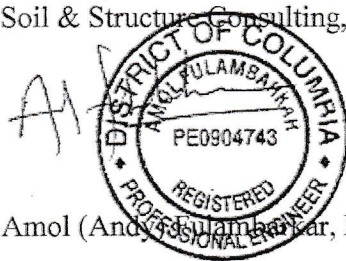
Building Plan Reviewer,  
District Department of Consumer and Regulatory Affairs  
1100 4<sup>th</sup> Street SW,  
Washington, DC 20024

RE: Statement of Attestation for **"1021 COOK Dr. SE, Washington, DC 20002"**

Dear Sir/Madam,

"I am responsible for determining that the structural design included in this application, are complying, with all laws and regulations of the District of Columbia. I have personally prepared or supervised the development of the engineering designs included in this application".

Sincerely,  
Soil & Structure Consulting, Inc.



Amol (Andy) Fulambhar, P.E.

Soil & Structure Consulting, Inc.  
Project: Design of proposed deck addition over existing house  
Address: 1021 Cook Drive SE Washington, DC  
Client: Kevin Thomas

Designed by: Andy Date: 07/24/18  
Designed by: Andy Date: 07/24/18

**STAIR STRINGER**

L = 11'-6"

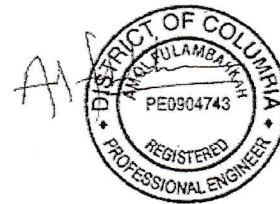
Load Data

W = Stair load  
= (1/3) x 3 x 60  
= 60 plf

**Use DBL 2x12 SP #2 P.T. Stair Stringer.**

For calculation effective depth of 6" has been considered

Reaction @ Left Support = 345 lb  
Reaction @ Right Support = 345 lb



Soil & Structure Consulting, Inc.  
 Project: Design of proposed deck addition over existing house  
 Address: 1021 Cook Drive SE Washington, DC  
 Client: Kevin Thomas

Designed by: Andy Date: 07/24/18  
 Designed by: Andy Date: 07/24/18

BENDING DESIGN	TITLE	Stair Stringer	
Type of structural Member		Beam	
Beam Type		LUMBER	
Beam Specification		SYP #2	
Beam Width		2 in	
Beam Depth		6 in	
No. of pieces		2	
LDF		1	
ADF		240	
Effective Span of Beam		11.5 ft	
Left Support located at		0 ft	
Right support located at		11.5 ft	
Full Span UDL 1		60 plf	
Start of UDL 1		0 ft	
End of UDL 1		11.5 ft	
Additional UDL 2		0 plf	
Start of UDL 2		0 ft	
End of UDL 2		0 ft	
1st Point Load P1		0 lb	
Location of 1st Point Load P1		0 ft	
2nd Point Load P2		0 lb	
Location of 2nd Point Load P2		0 ft	
3rd Point Load P3		0 lb	
Location of 3rd Point Load P3		0 ft	
4th Point Load P4		0 lb	
Location of 1st Point Load P4		0 ft	
Reaction at Left support		345 lb	
Reaction at Right support		345 lb	
Maximum Shear Force		345 lb	
Maximum Moment		992 ft-lb	
Actual Shear Stress		32 psi	
Allowable Shear Stress		175 psi	OK
Actual Bending Stress		788 psi	
Allowable Bending Stress		1268 psi	OK
Actual Deflection		0.354 in	
Allowable Deflection		0.575 in	OK

Not Available

ARCHITECTURAL & STRUCTURAL DESIGN FOUNDRY  
 ADDRESS : 1021 COOK DRIVE SE., WASHINGTON, DC  
 CLIENT : KEVIN THOMAS, CONTRACTING 1

ABBREVIATIONS			
A.B.	ANCHOR BOLT	SCHEID	SCHEDULE
ABW	ABOVE	SQ. FT.	SQUARE FEET
ACT	ACCUSTIONAL CEILING TILE	S.S.	STAINLESS STEEL
AFP	ABOVE FINISHED FLOOR	STD.	STANDARD
ARCH.	ARCHITECT, ARCHITECTURAL	STL.	STEEL
APPROX.	APPROXIMATELY	TEL.	TELEPHONE
BLDG.	BUILDING	T/L	TOLIST
CLC	CEILING	T.O.B.	TOP OF BEAM
CMU	CONCRETE MASONRY UNIT	T.O.W.	TOP OF WALL
COL.	COLUMN	T.O.S.	TOP OF SLAB
CONT.	CONTIGUOUS	TYP.	TYPICAL
DTL.	DETAIL	U.N.C.	UNLESS NOTED OTHERWISE
DWG.	DRAWING	VERT.	VERTICAL
EA.	EACH	W/	WOOD
EL.	ELEVATION	W/D.	WITHOUT
EXT.	EXTERIOR	WT.	WEIGHT
DBL.	DOUBLE	W.W.F.	WELDED WIRE FABRIC
DM.	DIMENSION	PL.	PLATE
DN.	DOWN	PLYWD.	PLYWOOD
DN.	DOWN	PTD.	PAINTED
COMP.	COMPRESSIBLE	RAD.	RADIUS
CRES.	COURSES	RECEP.	RECEPTACLE
DS.	DOWN SPOUT	REINF.	REINFORCED
EL.	ELECTRICAL	REQ'D	REQUIRED
EL.	EXPANSION JOINT	OPG.	OPENING
EL.	ELEVATOR		
F.E.	FIRE EXTINGUISHER		
HORIZ.	HORIZONTAL		
HTG.	HEIGHT		
HR.	HOOR		
IN.	INCH		
INCL.	INCLUDING		
INT.	INTERIOR		
	OPENING		

SCOPE OF WORK	BUILDING CODE
DESIGN OF FRAMING FOR PROPOSED NEW DECK ADDITION	INTERNATIONAL BUILDING CODE (IBC)-2012 INTERNATIONAL RESIDENTIAL CODE (IRC)-2012 INTERNATIONAL DISTRICT OF COLUMBIA CODE (IDCM)-2013 INTERNATIONAL EXISTING BUILDING CODE (IEBC)-2012 INTERNATIONAL MECHANICAL CODE (IMC)-2012 INTERNATIONAL PLUMBING CODE (IPC)-2012 INTERNATIONAL FIRE CODE (IFC)-2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)-2012 NATIONAL ELECTRICAL CODE (NEC)-2011

ZONING DATA
ZONE: RP-1 LOT: 1021 LOT AREA: 0139 SF TYPE OF CONSTRUCTION: VB TYPE OF OCCUPANCY: RESIDENTIAL

MATERIAL SCHEDULE & SYMBOL	
	(W) WALL
	(F) FOUNDATION WALL & FOOTING TO REMAIN
	(I) INTERIOR WALL
	(S) INTERIOR NON BEARING STUD WALL
	(H) HEADER TO REMAIN
	(R) ROOF RAFTERS/FLOOR JOISTS
	(D) DECK JOISTS
	JL SIMPSON HANGER
	(A) STUD WALL TO REMAIN
	(M) DECKING
	(P) 6x8 P.T. POST
	(B) BEAM
(E)	EXISTING
(N)	NEW
TYP.	TYPICAL

CODE SUMMARY			
USE GROUP: R-2	FIRE PROTECTION		
TYPE OF CONSTRUCTION: V-B	SPRINKLER:	NO	
ALLOWABLE NUMBER OF STORES: 3	STANDPIPS:	NO	
PROPOSED NUMBER OF STORES: 2	FIRE EXTINGUISHER:	NO	
ALLOWABLE HEIGHT: 40 FT	FIRE ALARM:	NO	
PROPOSED HEIGHT: 129.25 FT	SMOKES ALARM:	YES	
PROPOSED DECK AREA: ± 852.25 SQ. FT	CARBON MONOXIDE:	YES	

VICINITY MAP			

- GENERAL NOTES**
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES & REGULATIONS. CONSTRUCTION SHALL ALSO COMPLY WITH LABORERS CRITERIA (UNLESS PRECLUDED BY CODE)
  - ALL WOOD FRAMEWORK, WOOD BLOCKING AND PLYWOOD SHALL BE FIRE RATING TREATED PER CODE
  - ALL FINISH MATERIALS SHALL MEET FLAME SPREAD & SMOKE DEVELOPMENT RATING CLASS C
  - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS PRIOR TO BID TO DETERMINE THE EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER & THE OWNER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
  - ALL MATERIAL INDICATED ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING & SHALL BE PROVIDED & INSTALLED BY CONTRACTOR. ITEM INDICATED AS TENANT SUPPLIED SHALL BE INSTALLED BY CONTRACTOR PER TENANT REQUIREMENTS AND/OR MANUFACTURER'S PUBLISH STANDARDS.
  - ALL EXISTING MATERIAL TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH THE EXISTING ADJACENT MATERIAL, SO THAT THE REPAIR IS IMPERCEPTIBLE
  - DURING THE COURSE OF CONSTRUCTION IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF SUCH IMMEDIATELY.
  - CONTRACTOR SHALL ASSEMBLE & INSTALL MATERIALS/PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS & INDUSTRIAL/ASSOCIATION STANDARD.
  - FIELD VERIFY AND /OR REPORT ASBESTOS-CONTAINING MATERIAL TO ARCHITECT & OWNER UPON DISCOVERY.
  - SMOKE & FIRE PARTITIONS SHALL BE CONSTRUCTED PER THE DESIGNATED UL DESIGN & SHALL BE EXTENDED VERTICALLY TO THE BOTTOM OF THE STRUCTURE ABOVE. PROVIDES FIRE STOP & SEAL ALL PIPE & CONDUIT PENETRATIONS FOR THIS SEALANT THAT COMPLES WITH THE MINIMUM FIRE RATED REQUIREMENTS FOR THE PARTITIONS. DUCT PENETRATIONS SHALL BE PROTECTED SMOKS AND /OR FIRE DAMPERS.
  - ALL INTERIOR CONCRETE SHALL BE PORTLAND CEMENT BASED TO INCLUDE PATCHING, FLOATING/LEVELING OF FLOORS AND FINISHING.
  - THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS (WITH THEIR STAMP OF APPROVAL) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR APPROVAL BY THE ARCHITECT/ENGINEER OF RECORD

SHEET INDEX

DRAWING INDEX	
SHEET NO.	DESCRIPTION
C01	COVER SHEET
A.01	PARTIAL PROPOSED DECK PLAN
A.02	PROPOSED DECK REAR ELEVATION
A.03	PROPOSED DECK RIGHT SIDE ELEVATION
A.04	PROPOSED DECK LEFT SIDE ELEVATION
A.05	PARTIAL PROPOSED DECK FOUNDATION PLAN
A.06	PARTIAL PROPOSED DECK FLOOR FRAMING PLAN
A.07	DETAIL @ NEW DECK
A.08	DETAIL @ NEW STAIR

FOR ENGINEER:-  
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 \* STRUCTURAL PLAN CERTIFIED AS PROVIDED IN SECTION 106.1.1.1 OF THE D.C. CONSTRUCTION CODE.



DATE	REVISION
07/24/18	REV. NO. DATE
AS NOTED	09/14/18
ANDY	10/29/18
ANDY	

**COVER SHEET**  
 ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC  
 CLIENT: KEVIN THOMAS

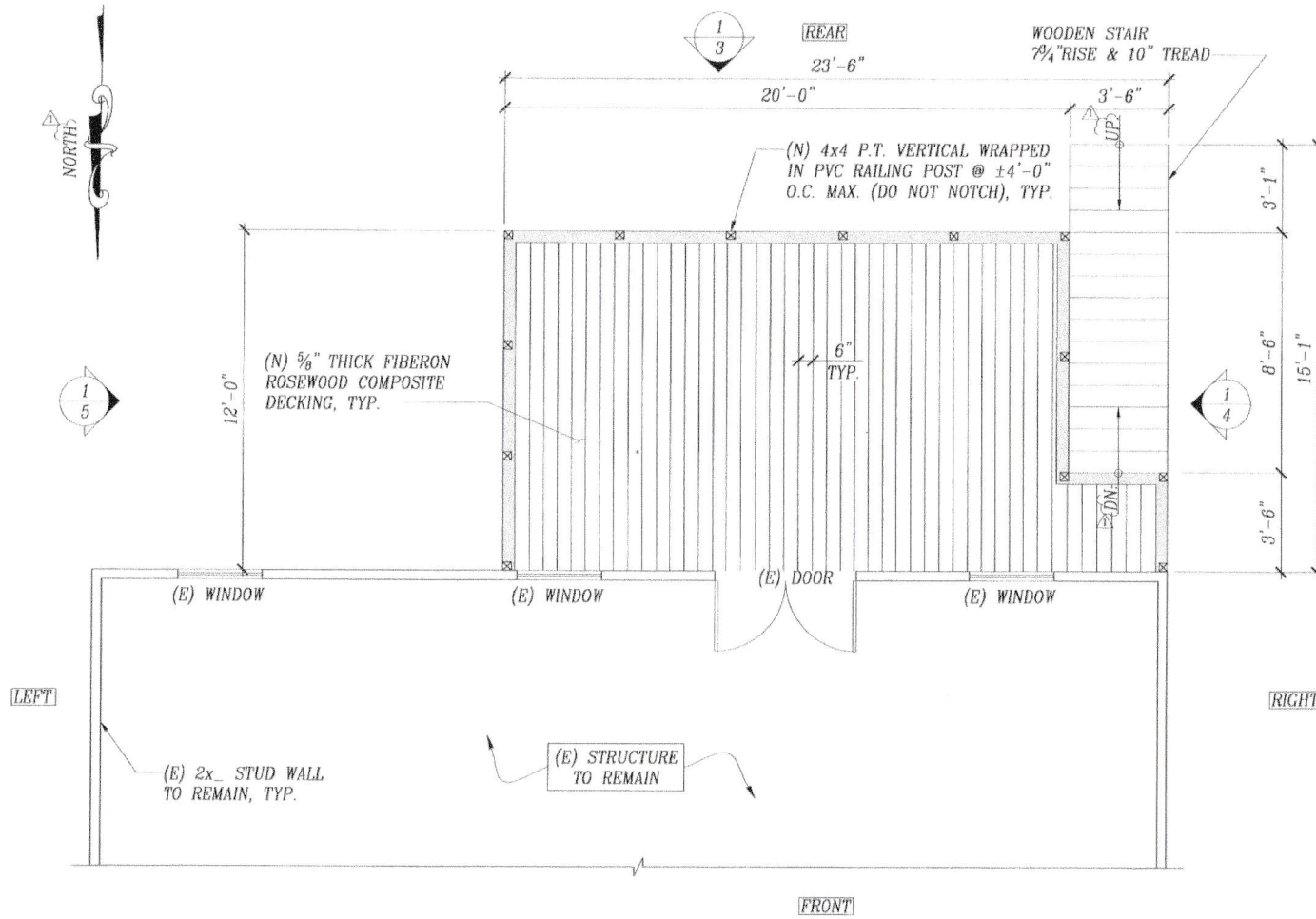


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SHEET NO  
 C.01

Not Available



DRAWING LEGEND	
DRAWN AS	DESCRIPTION
	(E) STUD WALL TO REMAIN
	(N) DECKING
(N)	NEW
(E)	EXISTING
TYP.	TYPICAL

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PARTIAL PROPOSED DECK PLAN

SCALE: 1/4" = 1'-0"

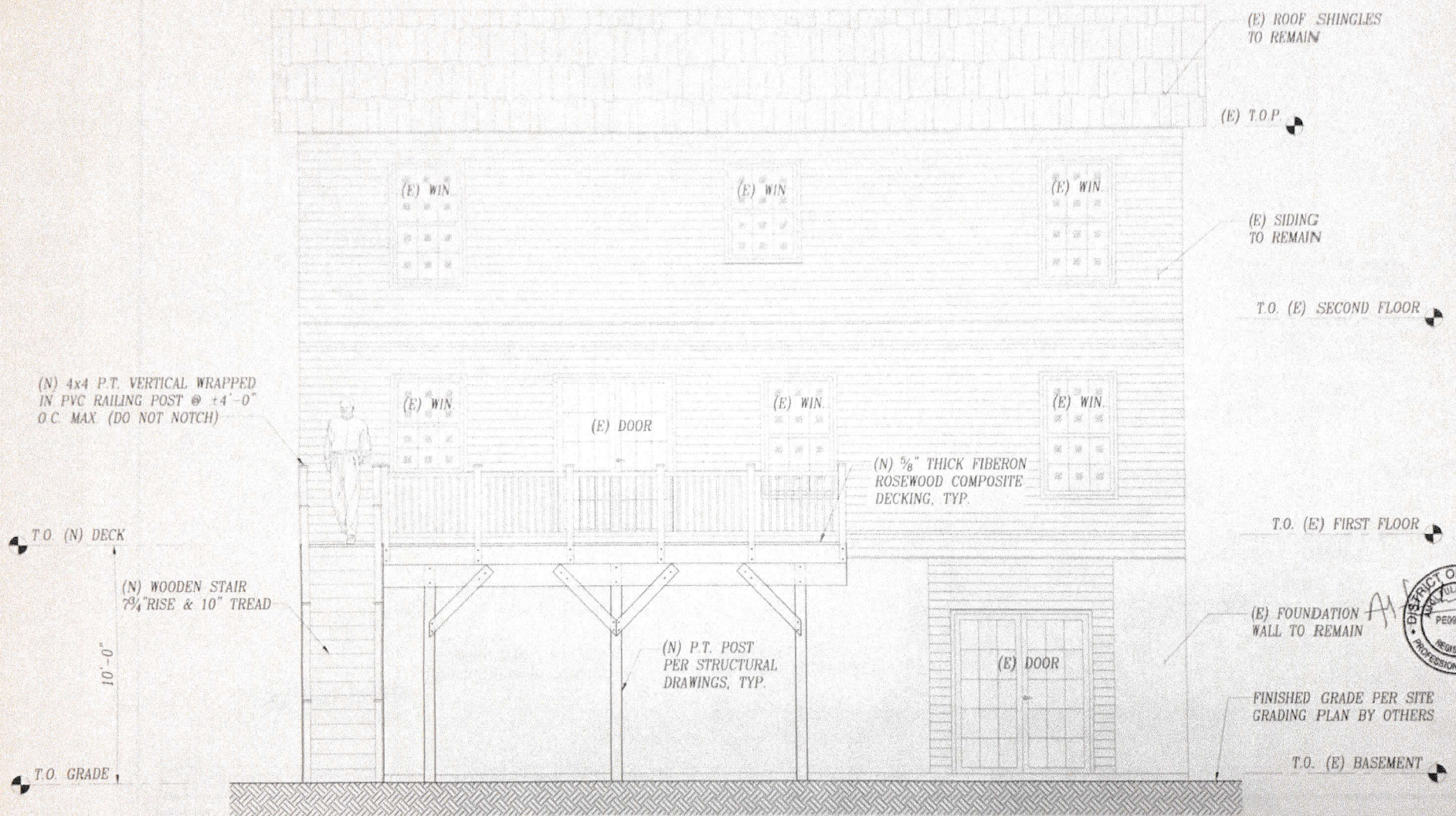
SHEET NO <i>A.01</i>	DATE	07/24/18	REVISION		PARTIAL PROPOSED DECK PLAN
	SCALE	AS NOTED	REV. NO.	DATE	
	DRAWN BY	ANDY	09/14/18		ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC
	CHECKED BY	ANDY			CLIENT: KEVIN THOMAS



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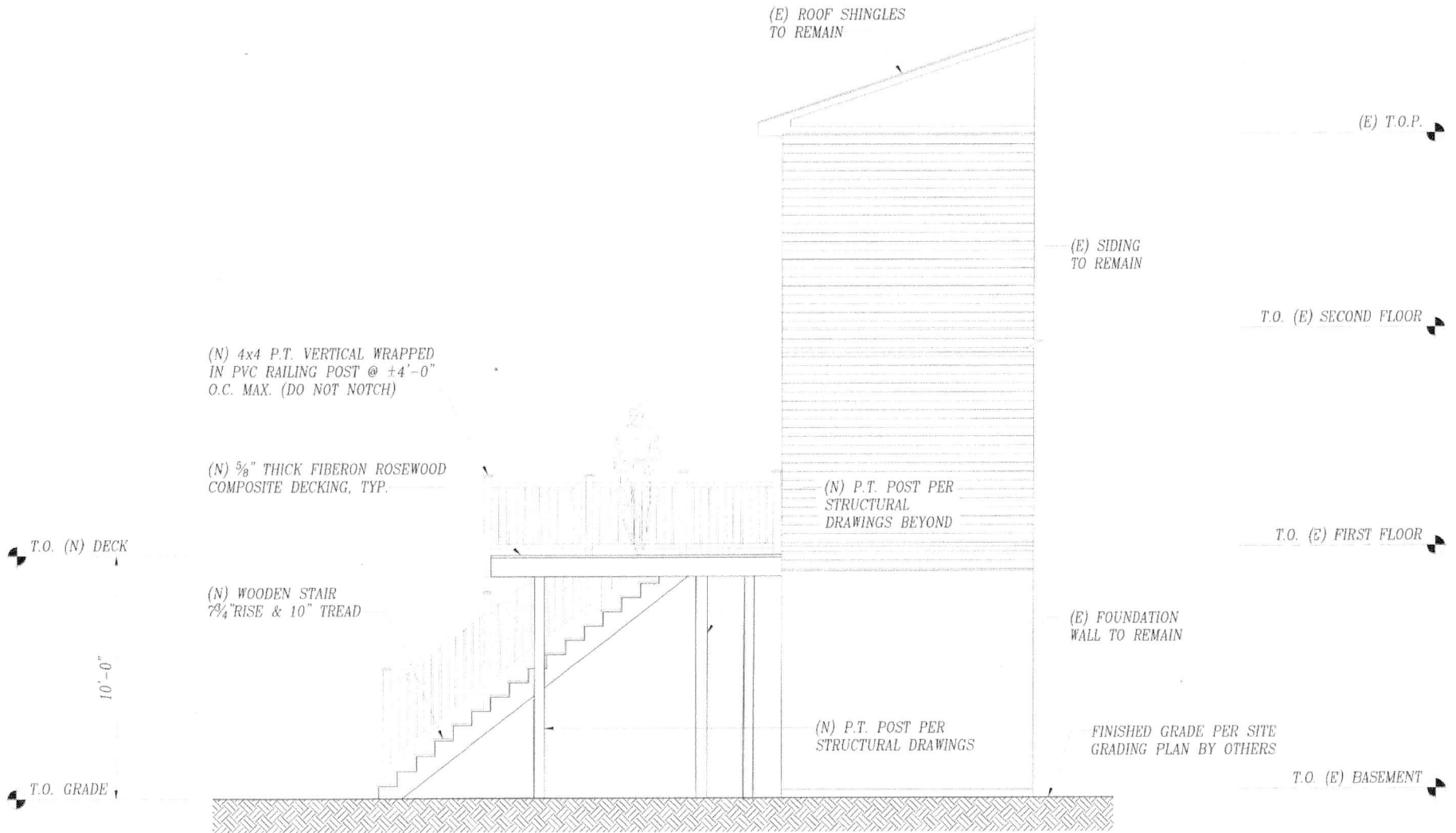
Not Available



1 PROPOSED DECK REAR ELEVATION

SCALE 1/4" = 1'-0"

Not Available



1 PROPOSED DECK LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"

SHEET NO  A.04	DATE	07/24/18	REVISION	
	SCALE	AS NOTED	REV. NO.	DATE
	DRAWN BY	ANDY	-	-

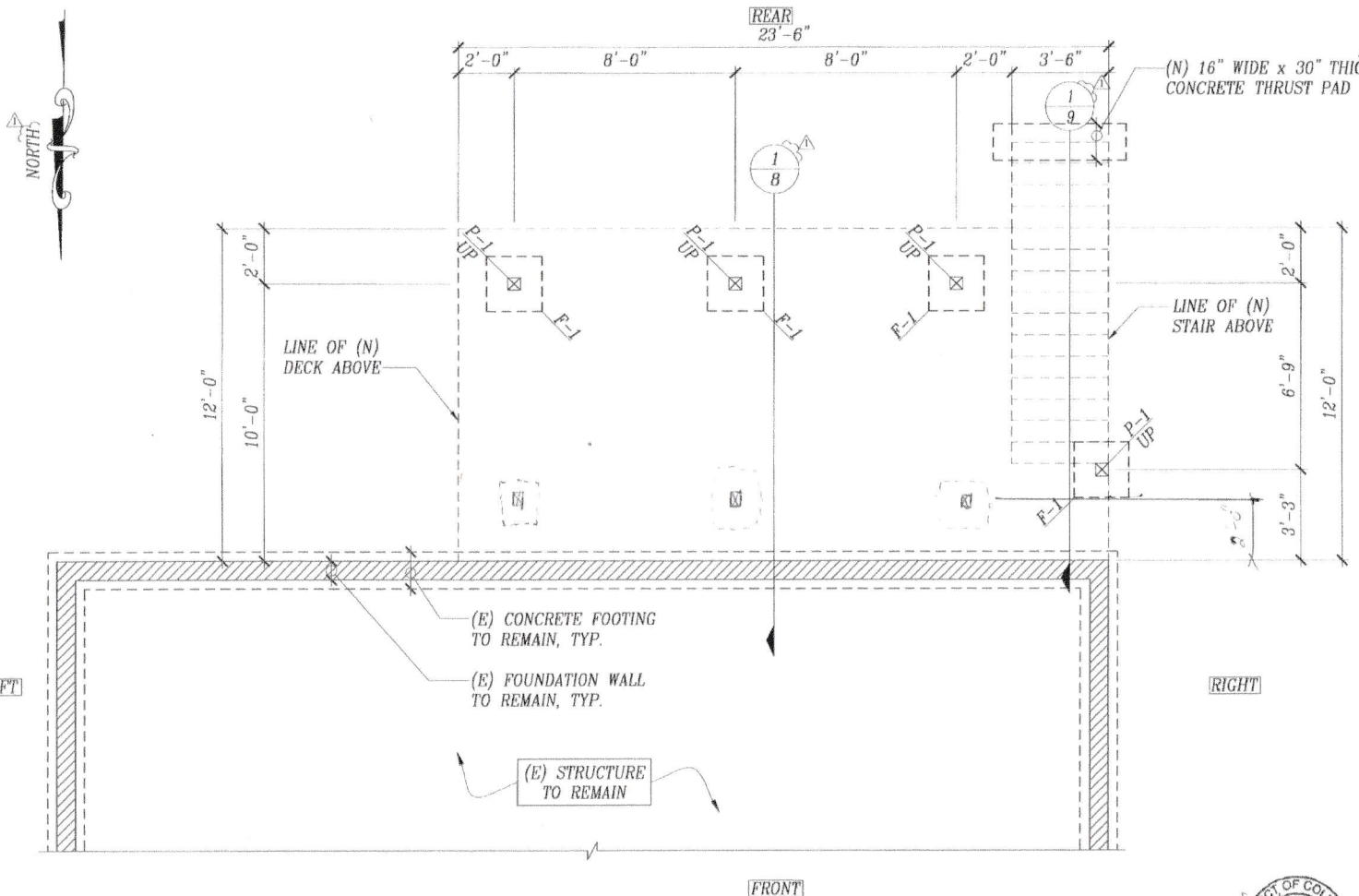
PROPOSED DECK LEFT SIDE ELEVATION	
ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC	



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A.05 deck plan 1021 cook dr.pdf V1

Not Available



**PROPOSED FOUNDATION NOTES :-**

- \* PROPOSED FOUNDATION DESIGN BASED ON: MATERIAL PROPERTIES:-  
 $f'_c = 3000$  psi FOR CONCRETE.  
 $F_y = 60$  ksi FOR REINFORCEMENT
- \* MIN SOIL BEARING CAPACITY - 1500 psf
- \* PROVIDE 3" MIN. CLEAR COVER TO REINFORCEMENT IN FOOTING.
- \* PROVIDE 30" MIN. FROST DEPTH WHERE REQUIRED.

**DRAWING LEGEND**

DRAWN AS	DESCRIPTION
	(E) FOUNDATION WALL & FOOTING TO REMAIN
	(N) 6x6 P.T. POST
(N)	NEW
(E)	EXISTING
TYP.	TYPICAL

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**FOOTING SCHEDULE**

F-1	(N) 24"x24"x12" DEEP CONCRETE FOOTING w/ (3) #4 REBAR EACH WAY @ BOTTOM
-----	---

**POST SCHEDULE**

P-1	(N) 6x6 P.T. SP #2
-----	--------------------



PARTIAL PROPOSED DECK FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

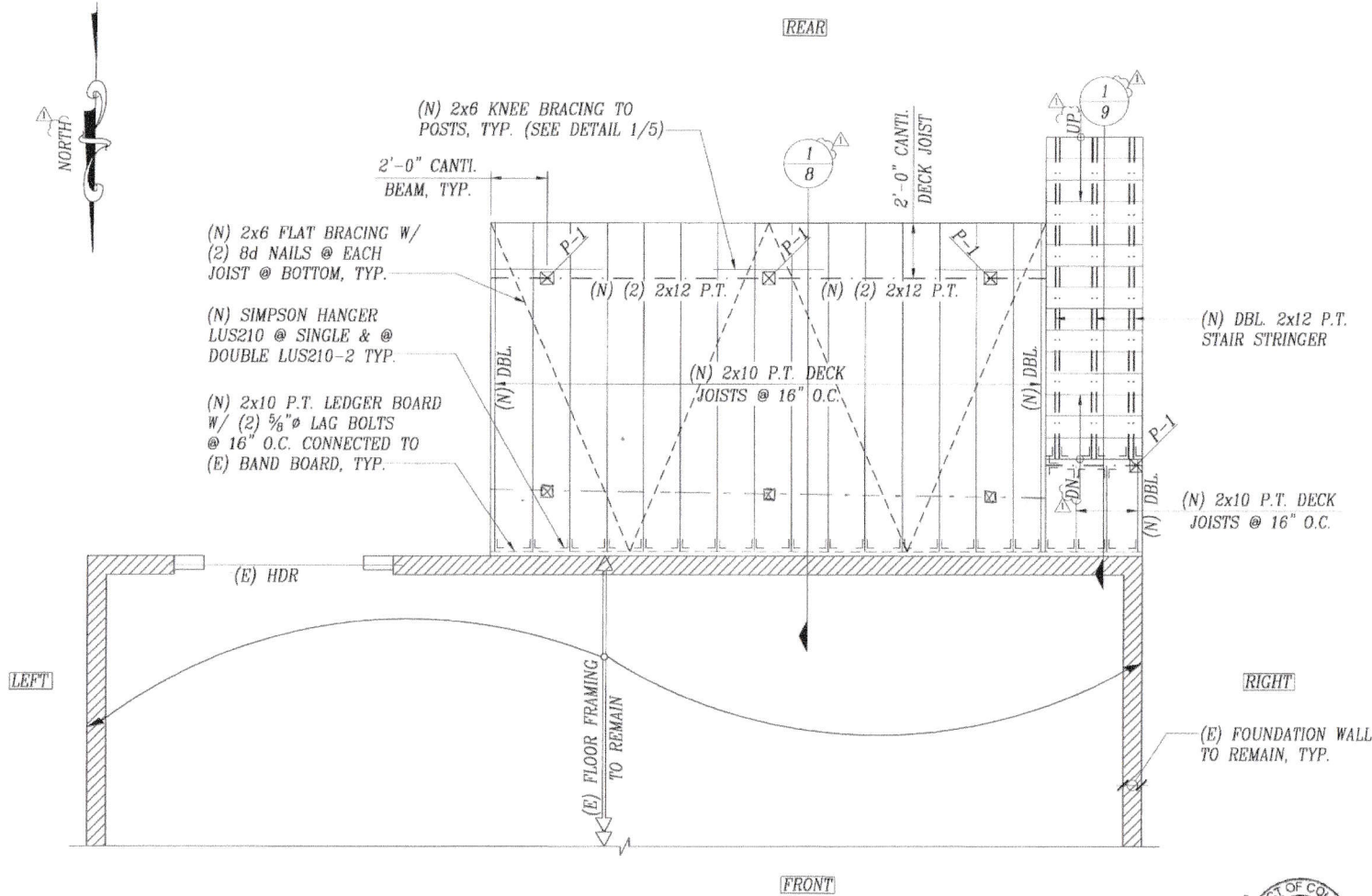
SHEET NO	DATE	07/24/18	REVISION		PARTIAL PROPOSED DECK FOUNDATION PLAN
	SCALE	AS NOTED	REV. NO.	DATE	
A.05	DRAWN BY	ANDY	1	09/14/18	ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC
	CHECKED BY	ANDY	-	-	CLIENT: KEVIN THOMAS

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A.06 framing plan 1021 cook dr.pdf V1

Not Available



PROPOSED DECK FRAMING PLAN NOTES :-

\* THE GOVERNING CODE IS INTERNATIONAL REBUILDING CODE (IBC)-2012 W/ DISTRICT OF COLUMBIA BUILDING CODE (DC)-2013 EDITION AND/OR LOCAL COUNTY CODE AMMENDMENTS AND/OR ORDINANCES.

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DESIGN LOADS :-  
 DECK LIVE LOAD = 50 PSF  
 DECK DEAD LOAD = 10 PSF

DEFLECTION :-  
 LIVE LOAD DEFLECTION = L/360  
 TOTAL LOAD DEFLECTION = L/240

DRAWING LEGEND

DRAWN AS	DESCRIPTION
	(E) FOUNDATION WALL TO REMAIN
	(N) BEAM
	(N) DECK JOISTS
	(N) 6x6 P.T. POST
(N)	NEW
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DBL.	(N) DOUBLE
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IMPORTANT NOTE :-

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POST SCHEDULE

P-1	(N) 6x6 P.T. SP #2
-----	--------------------

PARTIAL PROPOSED DECK FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

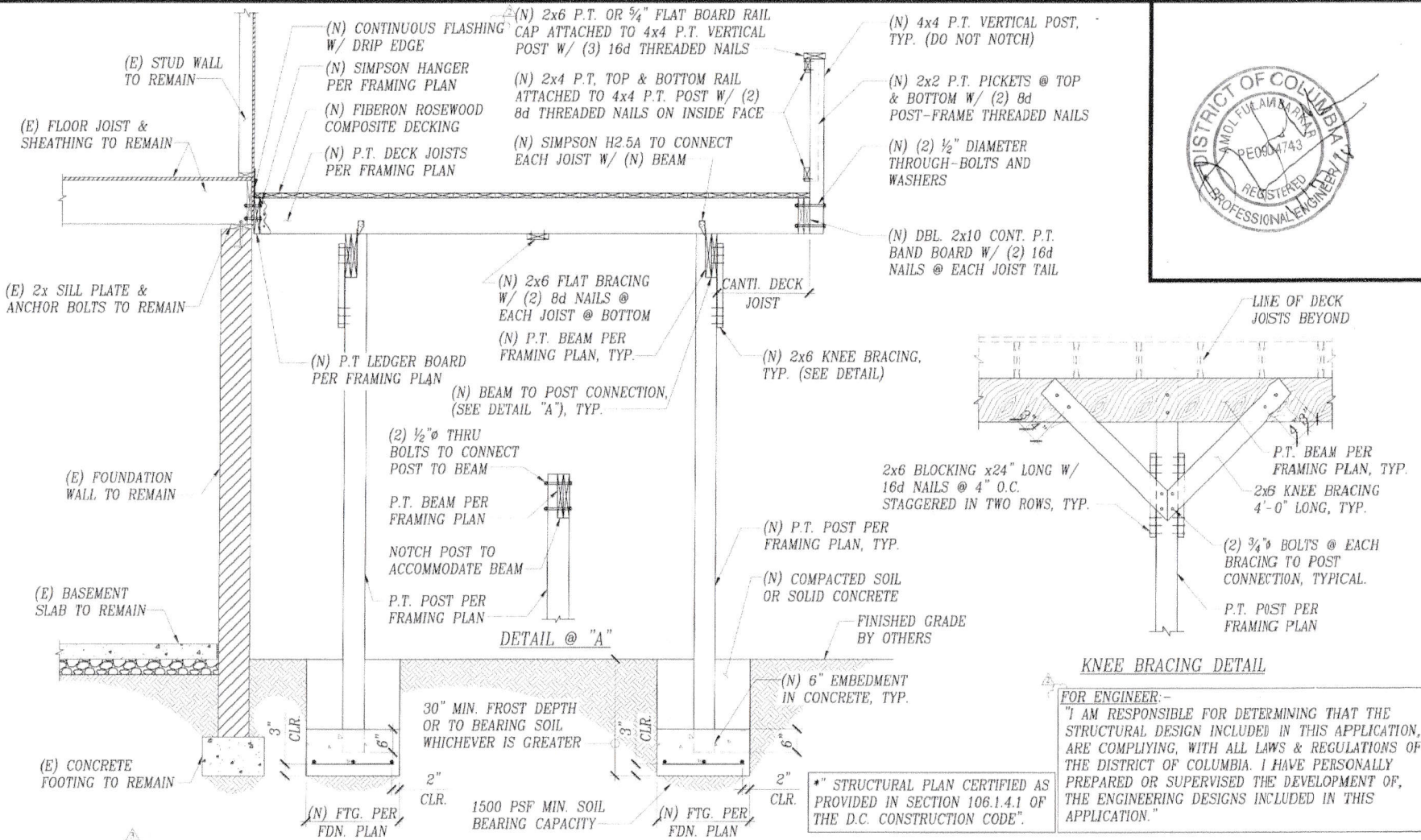
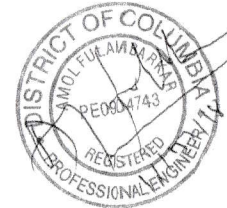


SHEET NO	DATE	07/24/18	REVISION	
	SCALE	AS NOTED	REV. NO.	DATE
	DRAWN BY	ANDY	1	09/14/18

PARTIAL PROPOSED DECK FLOOR FRAMING PLAN	
ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC	



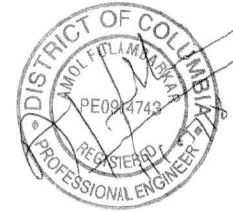
1889 PRESTON WHITE DRIVE, SUITE 104  
 RESTON, VA 20191  
 (703) 391-8911 (703) 995-4680 FAX  
 www.soilandstructure.com



1) DETAIL @ NEW DECK

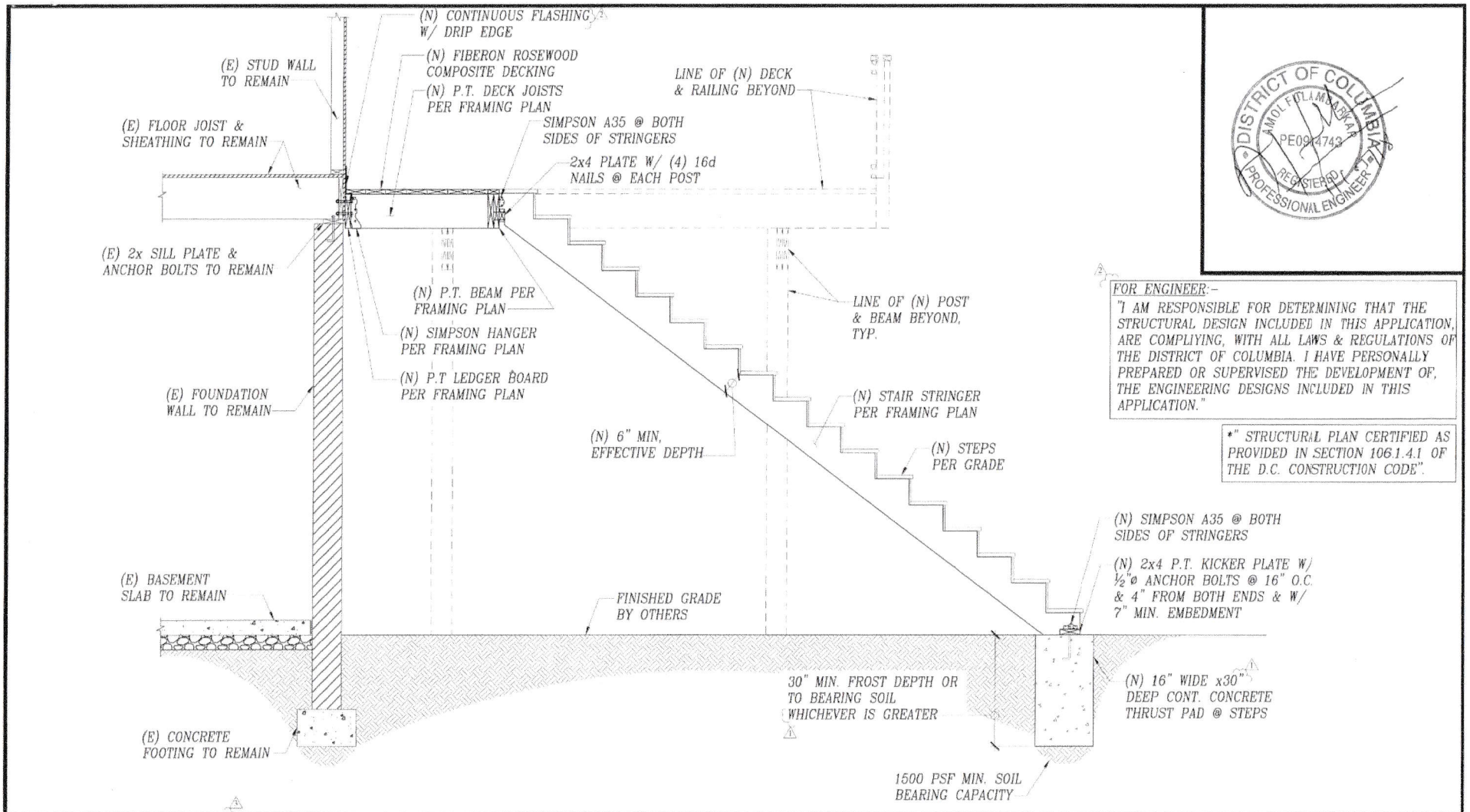
SCALE 3/4"=1'-0"

DATE	07/24/18	REVISION		DETAIL @ NEW DECK	1889 PRESTON WHITE DRIVE, SUITE 104 RESTON, VA 20191 (703) 391-8911 (703) 995-4680 FAX www.soilandstructure.com	SHEET NO  A.07
SCALE	AS NOTED	REV. NO.	DATE			
DRAWN BY	ANDY	1	09/14/18	ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC		
CHECKED BY	ANDY	2	10/29/18	CLIENT: KEVIN THOMAS		
		3	11/05/18			



FOR ENGINEER:-  
 "I AM RESPONSIBLE FOR DETERMINING THAT THE STRUCTURAL DESIGN INCLUDED IN THIS APPLICATION, ARE COMPLYING, WITH ALL LAWS & REGULATIONS OF THE DISTRICT OF COLUMBIA. I HAVE PERSONALLY PREPARED OR SUPERVISED THE DEVELOPMENT OF, THE ENGINEERING DESIGNS INCLUDED IN THIS APPLICATION."

\*" STRUCTURAL PLAN CERTIFIED AS PROVIDED IN SECTION 106.1.4.1 OF THE D.C. CONSTRUCTION CODE".



1) DETAIL @ NEW STAIR

SCALE: 3/4"=1'-0"

DATE	07/24/18	REVISION	DETAIL @ NEW STAIR	<p><b>SOIL &amp; STRUCTURE CONSULTING, INC.</b>                  STRUCTURAL - GEOTECHNICAL - CIVIL</p>	1889 PRESTON WHITE DRIVE, SUITE 104 RESTON, VA 20191 (703) 391-8911 (703) 995-4680 FAX www.soilandstructure.com	SHEET NO
SCALE	AS NOTED	REV. NO. DATE	ADDRESS: 1021 COOK DRIVE SE., WASHINGTON, DC			A.08
DRAWN BY	ANDY	↑ 09/14/18	CLIENT: KEVIN THOMAS			
CHECKED BY	ANDY	↑ 10/29/18 ↑ 11/05/18				