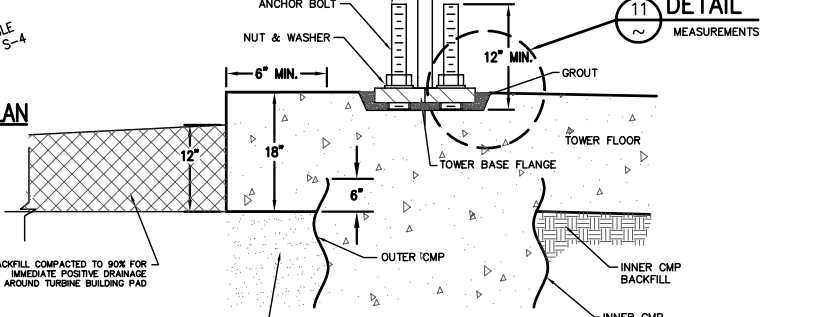


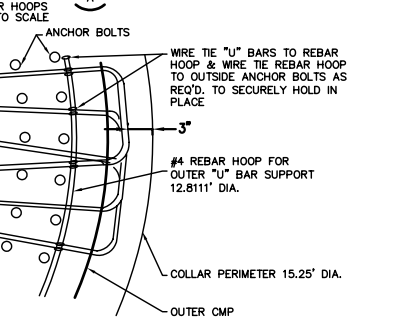
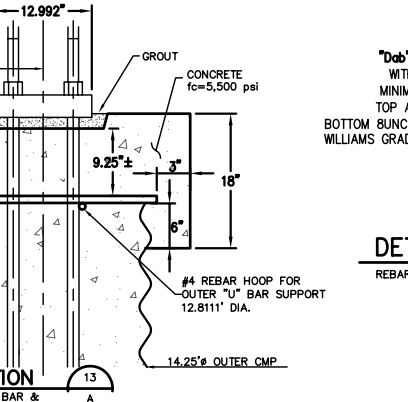
GROUT TROUGH NOTE:
GROUT TROUGH, FILLED WITH NON SHRINK GROUT, SHALL BE 1" BEYOND INSIDE AND OUTSIDE EDGE OF BASE FLANGE. TROUGH MAY NEED TO BE DEEPENED WITH 1/2"x16" PIECE OF STYROFOAM OR EQUAL

NOTE:
TRENCHES FOR GROUNDING AND SECONDARY ELECTRICAL CONDUIT SHALL BE SLURRY BACKFILL

NOTE:
EXPOSED BOLTS SHALL BE PAINTED SAME COLOR AS TOWER OR COVERED WITH TOOMAN'S ABS PLASTIC BOLT & NUT COVER.

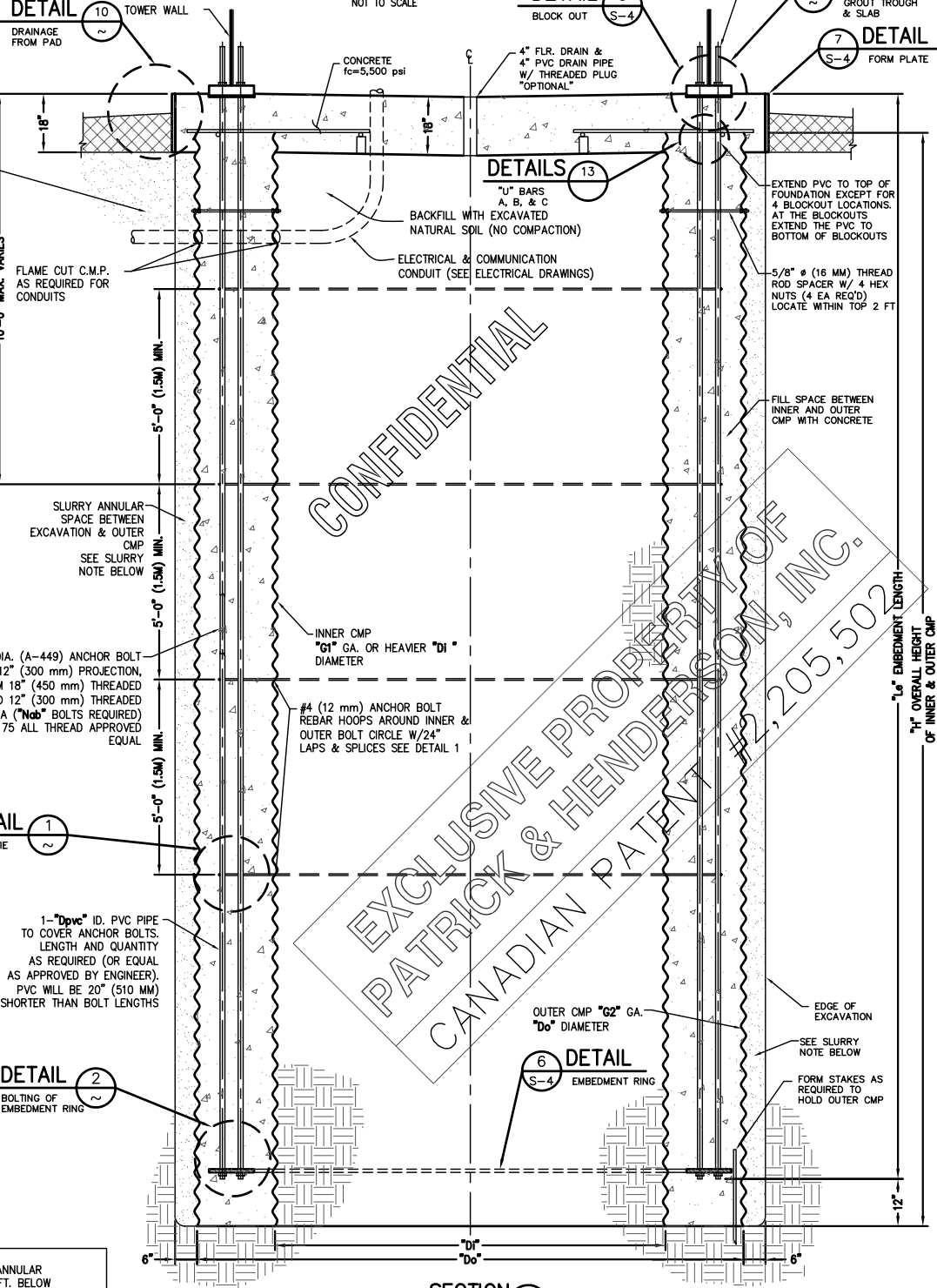


NOTE:
PVC SLEEVES AT TOP OF FOUNDATION SHALL BE TAPPED OR SEALED, UNLESS CONTRACTOR COVERS FOUNDATION TO PREVENT CONCRETE OR MOISTURE FROM ENTERING PVC SLEEVES.

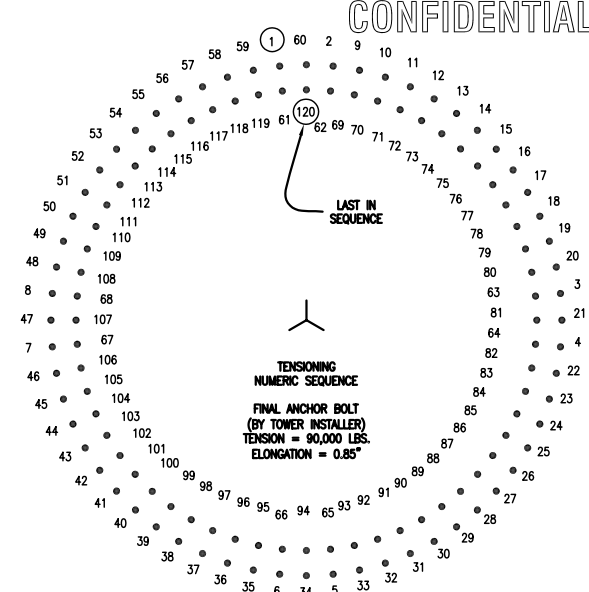


SLURRY NOTE:
USE 3-SACK CEMENT SAND SLURRY TO FILL ANNULAR SPACE FROM BOTTOM OF EXCAVATION TO 4 FT. BELOW FINISH GRADE. TOP 4 FT SHALL BE 1 SACK CEMENT SAND SLURRY, MINIMUM 30 PSI AT 28 DAYS. CONTACT ENGINEER FOR CLARIFICATION.

PROPRIETARY WARNING
SEE THE CONFIDENTIALITY STATEMENT. THIS DESIGN AND THESE DRAWINGS ARE CONFIDENTIAL AND PROPRIETARY. IF YOU DO NOT HAVE A SET ASSIGNED AND NUMBERED SPECIFICALLY TO YOU, RETURN THESE IMMEDIATELY TO PATRICK & HENDERSON, INC.



SECTION A
FOUNDATION NOT TO SCALE



BOLT TENSIONING SEQUENCE
ANCHOR BOLT TIGHTENING NOT TO SCALE
NOTE: BOLT TENSIONING PROCEDURES ARE UNDER SEPARATE DOCUMENT AND ARE AVAILABLE UPON REQUEST FROM PATRICK AND HENDERSON INC.

FOUNDATION DIMENSIONS			
MARK	VALUE	UNITS	DESCRIPTION
Dob	1.50	IN.	DIAMETER OF ANCHOR BOLTS (OUTSIDE DIAMETER)
Lab	30.0	FT	LENGTH OF ANCHOR BOLTS
Nab	120	EA	NUMBER OF ANCHOR BOLTS
Le	29.0	FT	BOLT EMBEDMENT LENGTH
Dpvc	1.5	IN	DIAMETER OF PVC PIPE SLEEVE
Di	9.75	FT	DIAMETER OF THE INNER CORRUGATED METAL PIPE
Do	14.25	FT	DIAMETER OF THE OUTER CORRUGATED METAL PIPE
H	30.0 *	FT	OVERALL HEIGHT OF INNER / OUTER CMP
G1	12	Ga	GAUGE OF INNER CMP
G2	12	Ga	GAUGE OF OUTER CMP

*FOUNDATION DEPTH BASED ON SOIL CONDITIONS PROVIDED ARE SUBJECT TO REVIEW AND MODIFICATION OF DEPTH ON SITE OR IF ADDITIONAL SOIL INFORMATION IS PROVIDED

- NOTES:**
- POUR SAND CEMENT SLURRY (MIX DESIGN BY ENGINEER) AROUND OUTER C.M.P. BETWEEN C.M.P. & EXCAVATION.
 - POUR MONOLITHICALLY A EIGHTEEN (18) INCH (300 MM) CONCRETE SLAB W/ 2 LAYERS OF 10M (#4 REBAR) AT 8" O.C. & A FOUR (4) INCH #4 PVC FLOOR DRAIN, IF FLOOR DRAINS TO CENTER, SHALL BE CONSTRUCTED INSIDE THE INNER C.M.P.
 - THREE (3) SACK SAND CEMENT SLURRY SHALL HAVE A 300 PSI MIN. 28 DAYS COMPRESSION STRENGTH.
 - ONE (1) SACK SAND CEMENT SLURRY SHALL HAVE A 30 PSI MIN. 28 DAY COMPRESSION STRENGTH.

ALLAN P. HENDERSON
NOVA SCOTIA #15788
DATE:

CONFIDENTIAL

PATRICK & HENDERSON INC.
CIVIL & GEOTECHNICAL ENGINEERING

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(661) 391-9854
FAX: (661) 391-9926

Consulting Engineers
Foundation & Structural Engineering
Land Planning
Land Surveying
Soils Testing

DATE:	01/06/04	DATE:	02/25/04	REVISION:	REMOVED DECON STUD. REPLACED WITH "U" BARS	BY:	JK
SCALE:	AS SHOWN	APPROVED:		PREPARED FOR:	VESTAS AMERICAN WIND TECHNOLOGY	DESCRIPTION:	
DRAWN BY:	JK				111 SW COLUMBIA STREET		
					SUITE 480		
					PORTLAND, OR 97201		
					TELEPHONE: 503-327-2000		

VESTAS AMERICAN WIND TECHNOLOGY
111 SW COLUMBIA STREET
SUITE 480
PORTLAND, OR 97201
TELEPHONE: 503-327-2000

NOT FOR CONSTRUCTION

FOUNDATION PLAN & SECTION

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SHEET:
S-3
4 SHEETS
JOB NO.: