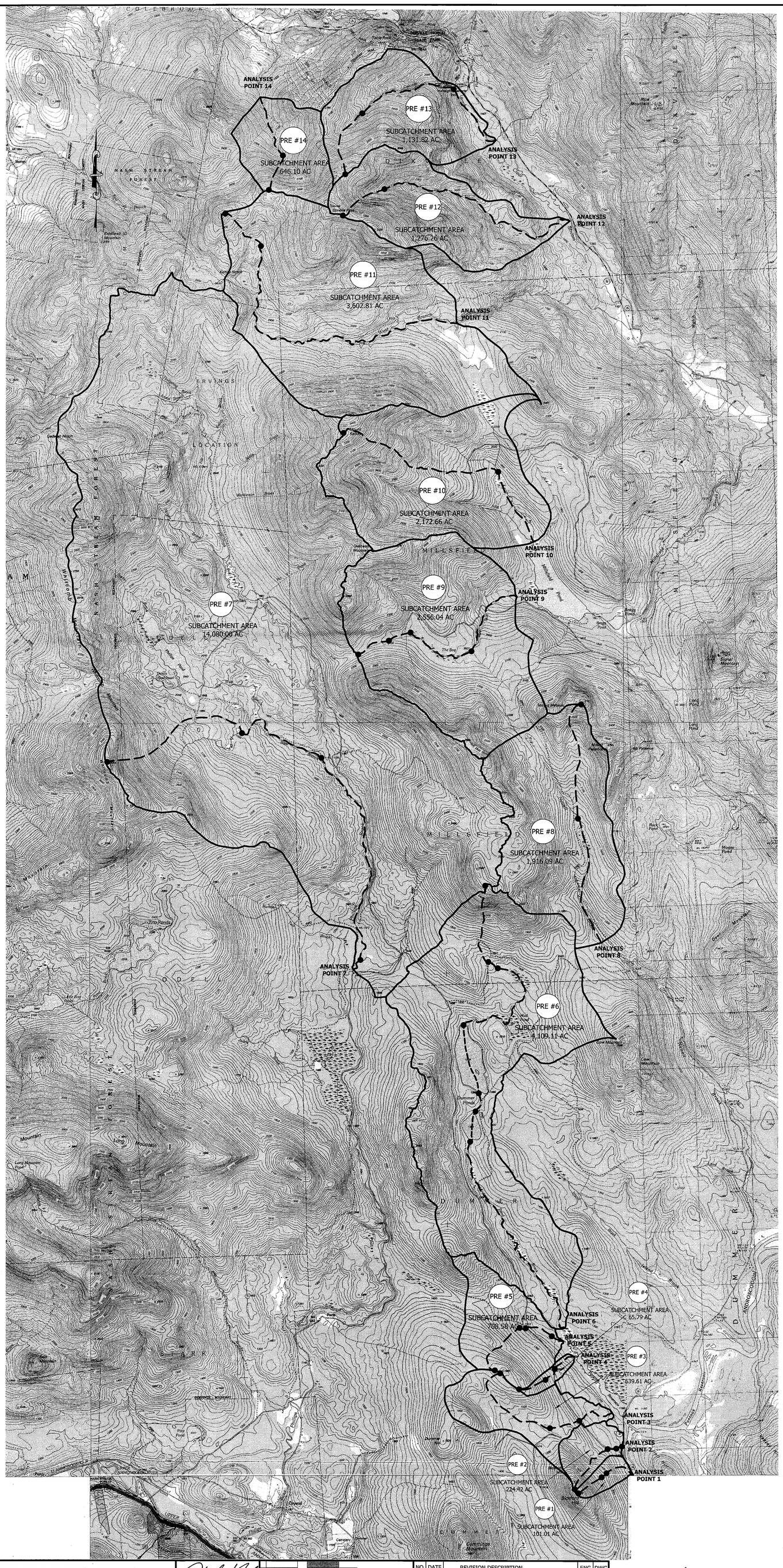

PROJECT SPECIFIC SOILS SUMMARY

Map Symbol	Soil Name	Hydrologic Soil Grou
22	COLTON	A
36	ADAMS	A
55	HERMON	A
14	SHEEPSCOT	B
28	MADAWASKA	B
73	BERKSHIRE	B
169	SUNAPEE	B
523	STETSON	B
711	MONADNOCK-HERMON ASSOCIATION	B
803	BERKSHIRE-MONADNOCK ASSOCIATION	B
803	BERKSHIRE-MONADNOCK ASSOCIATION	B
143	MONADNOCK	B
61	TUNBRIDGE-LYMAN-ROCK OUTCROP COMPLEX	C
76	MARLOW	C
77	MARLOW	C
78	PERU	C
79	PERU	C
105	RUMNEY	C
209	CHARLES	C
214	NAUMBURG	C
247	LYME	C
433	GRANGE	C
559	SKERRY	C
561	TUNBRIDGE-PLAISTED-LYMAN COMPLEX	C
567	HOWLAND	C
632	NICHOLVILLE	C
633	PEMI	C
647	PILLSBURY	C
701	BECKET-SKERRY ASSOCIATION	C
719	MARLOW-TUNBRIDGE ASSOCIATION	C
721	PERU-MARLOW ASSOCIATION	C
734	SURPLUS-SISK ASSOCIATION	C
736	SISK-GLEBE ASSOCIATION	C
760	TUNBRIDGE-PLAISTED ASSOCIATION	C
762	PLAISTED-HOWLAND ASSOCIATION	C
773	BANGOR-DIXMONT ASSOCIATION	C
779	DIXMONT-BANGOR ASSOCIATION	C
801	BECKET-MARLOW ASSOCIATION	C
821	MARLOW-PERU ASSOCIATION	C
828	SKERRY-PERU ASSOCIATION	C
834	SISK-SURPLUS ASSOCIATION	C
862	PLAISTED-TUNBRIDGE ASSOCIATION	C
864	HOWLAND-PLAISTED ASSOCIATION	C
869	SUNAPEE-MOOSILAUKE-MONADNOCK ASSOCIATION	C
919	TUNBRIDGE-LYMAN-MARLOW ASSOCIATION	C
923	MARLOW-PERU ASSOCIATION	C
737	SURPLUS-BEMIS ASSOCIATION	C
560	TUNBRIDGE-PLAISTED-LYMAN COMPLEX	D
670	TUNBRIDGE-BERKSHIRE-LYMAN COMPLEX	D
723	PERU-PILLSBURY ASSOCIATION	D
726	ROCK OUTCROP-LYMAN COMPLEX	D
738	GLEBE-SADDLEBACK-SISK ASSOCIATION	D
750	SADDLEBACK-GLEBE-RICKER ASSOCIATION	D
764	HOWLAND-MONARDA ASSOCIATION	D
765	MONARDA-HOWLAND ASSOCIATION	D
768	PEACHAM-WONSQUEAK-CABOT ASSOCIATION	D
820	LYMAN-TUNBRIDGE-ROCK OUTCROP COMPLEX	D
825	PILLSBURY-PEACHAM-PERU ASSOCIATION	D
832	PEACHAM-WONSQUEAK-PILLSBURY ASSOCIATION	D
835	RICKER-ROCK OUTCROP COMPLEX	D
860	TUNBRIDGE-LYMAN-ROCK OUTCROP COMPLEX	D
895	BUCKSPORT MUCK	D
897	PEACHAM, BUCKSPORT, AND RUMNEY	D
995	WONSQUEAK MUCK	D
549	PEACHAM	D

Analysis Pont	Contributing Area (acres) Pre	Pre-Dev. 2-yr peak flow (cfs)	Post-Dev. 2-yr peak flow (cfs)	Contributing Area (acres) Post	Pre-Dev. 10-yr peak flow (cfs)	Post-Dev. 10-yr peak flow (cfs)
1	101.01	0.48	0.48	101.01	8.53	8.53
2	224.42	2.45	2.45	224.42	31.98	32.56
3	639.61	7.04	7.04	639.61	47.84	47.84
4	65.79	0.53	0.53	65.79	7.63	7.63
5	708.58	8.49	8.49	708.58	64.92	64.92
6	4,109.11	50.14	50.14	4,109.06	218.50	218.49
7	14,080.00	209.91	209.94	14,081.83	1407.57	1407.75
8	1,916.09	29.89	29.88	1,915.73	206.50	206.46
9	2,556.04	19.08	19.07	2,554.91	178.13	178.05
10	2,172.66	32.35	32.33	2,171.34	218.83	218.70
11	3,602.81	94.10	94.10	3,602.96	565.54	565.57
12	1,276.26	31.75	31.75	1,276.26	259.15	259.15
13	1,131.82	19.87	19.78	1,131.82	163.82	165.18
14	646.10	16.26	16.28	647.05	135.44	135.64

DATE: MAR 2008	PROJECT #: 07090
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SHEET 1	

GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

OVERALL PRE-DRAINAGE ANALYSIS

STATE OF NEW HAMPSHIRE PHILIP L. BEAULIEU No. 11809 LICENSED PROFESSIONAL ENGINEER
7-11-08

horizons Engineering PLLC
34 School Street
Littleton, NH 03561
Phone 603.444.4111 - Fax 603.444.1343

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

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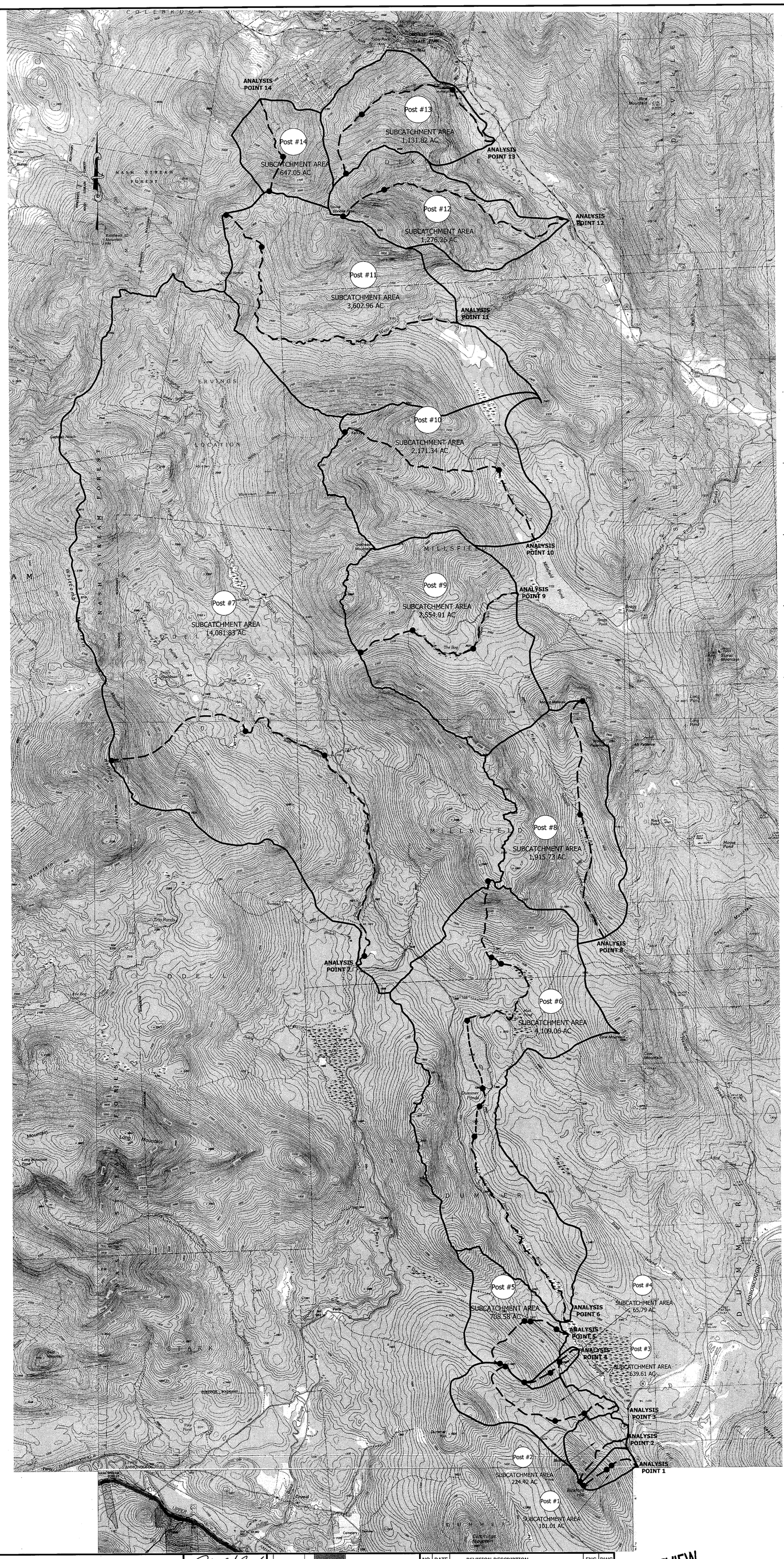

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SHEET 2	

GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

OVERALL POST-DRAINAGE ANALYSIS

STATE OF NEW HAMPSHIRE - PHILIP L. BEAULIEU No. 11909 - LICENSED PROFESSIONAL ENGINEER
7-11-08

horizons Engineering PLLC
34 School Street
Littleton, NH 03561
Phone 603.444.4111 - Fax 603.444.1343

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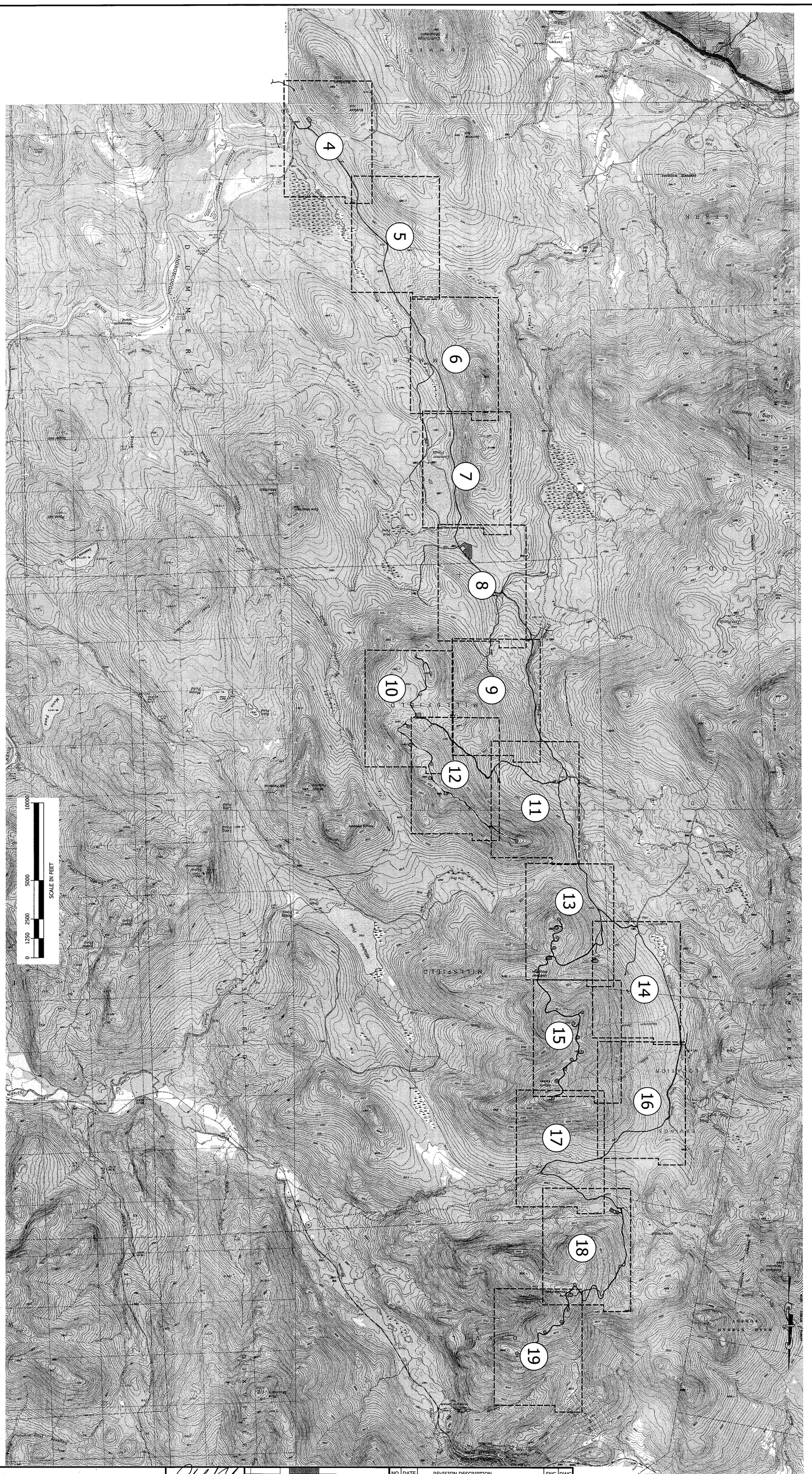

DATE: MAR 2008	PROJECT #: 07090
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CHECK'D BY: SML	ARCHIVE #: H-4498
SHEET 3	

GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK

COOS COUNTY, NEW HAMPSHIRE

SHEET INDEX

STATE OF NEW HAMPSHIRE PHILIP L. BEAULIEU No. 11909 LICENSED PROFESSIONAL ENGINEER

7-11-08

horizons Engineering PLLC
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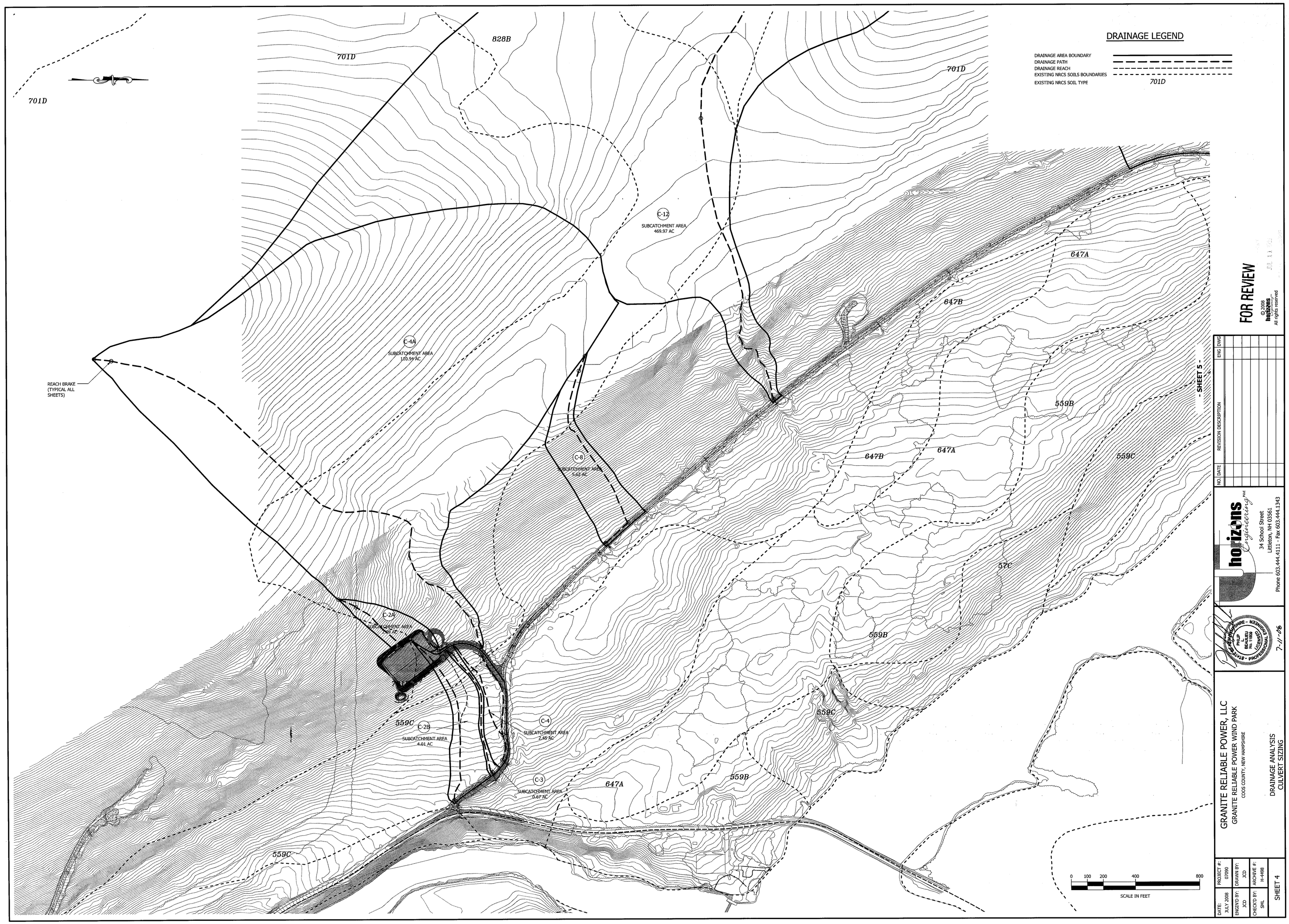

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PHILIP L. BEAUDEU No. 11800 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE

7-11-08

GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

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CHECK'D BY: SAL	ARCHIVE #: H-4198		

SHEET 4

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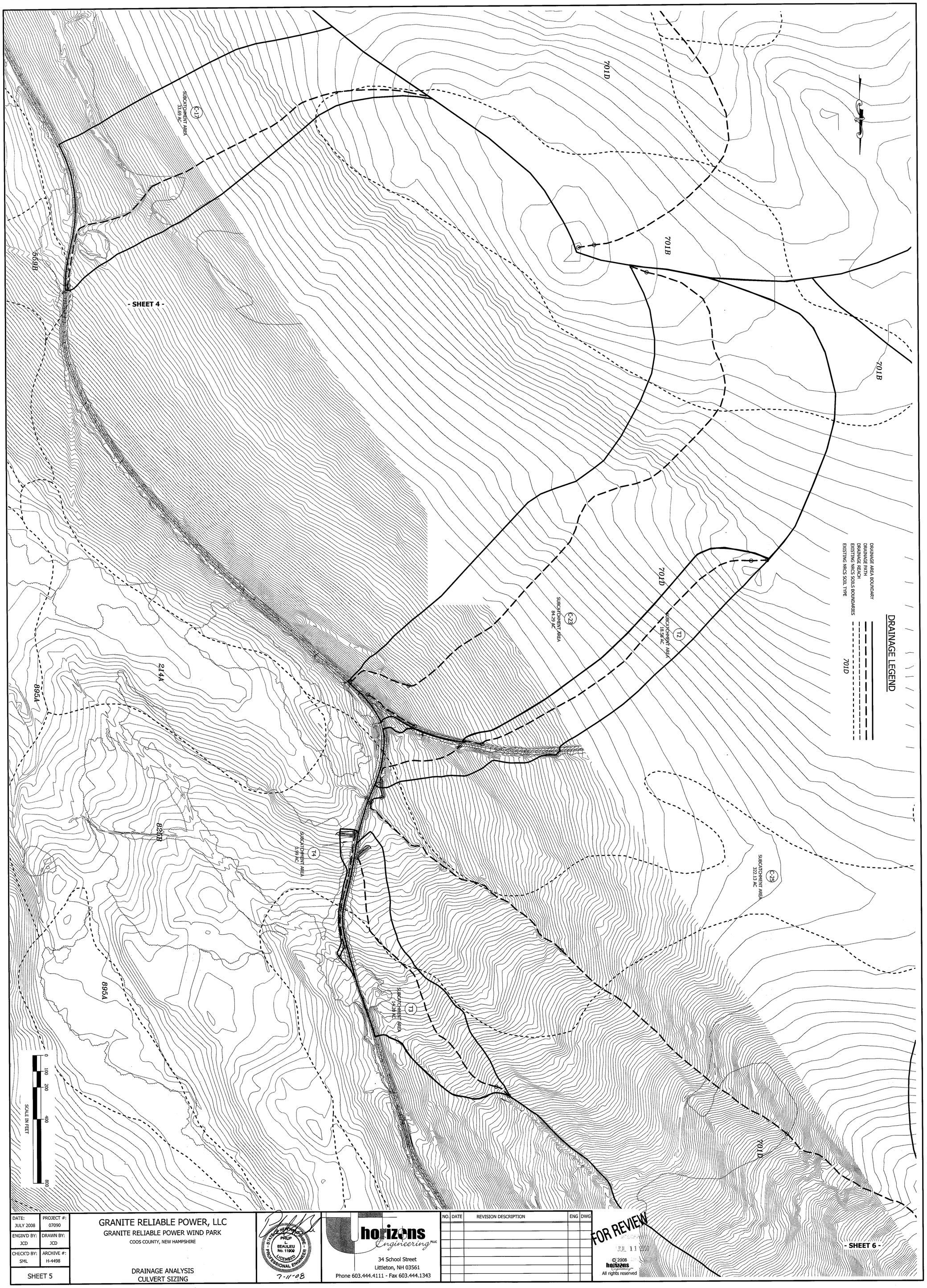

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SHEET 5	

GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE
PHILIP L. BEAULIEU
No. 11909
LICENSED
PROFESSIONAL ENGINEER
7-11-08

horizons Engineering PLLC
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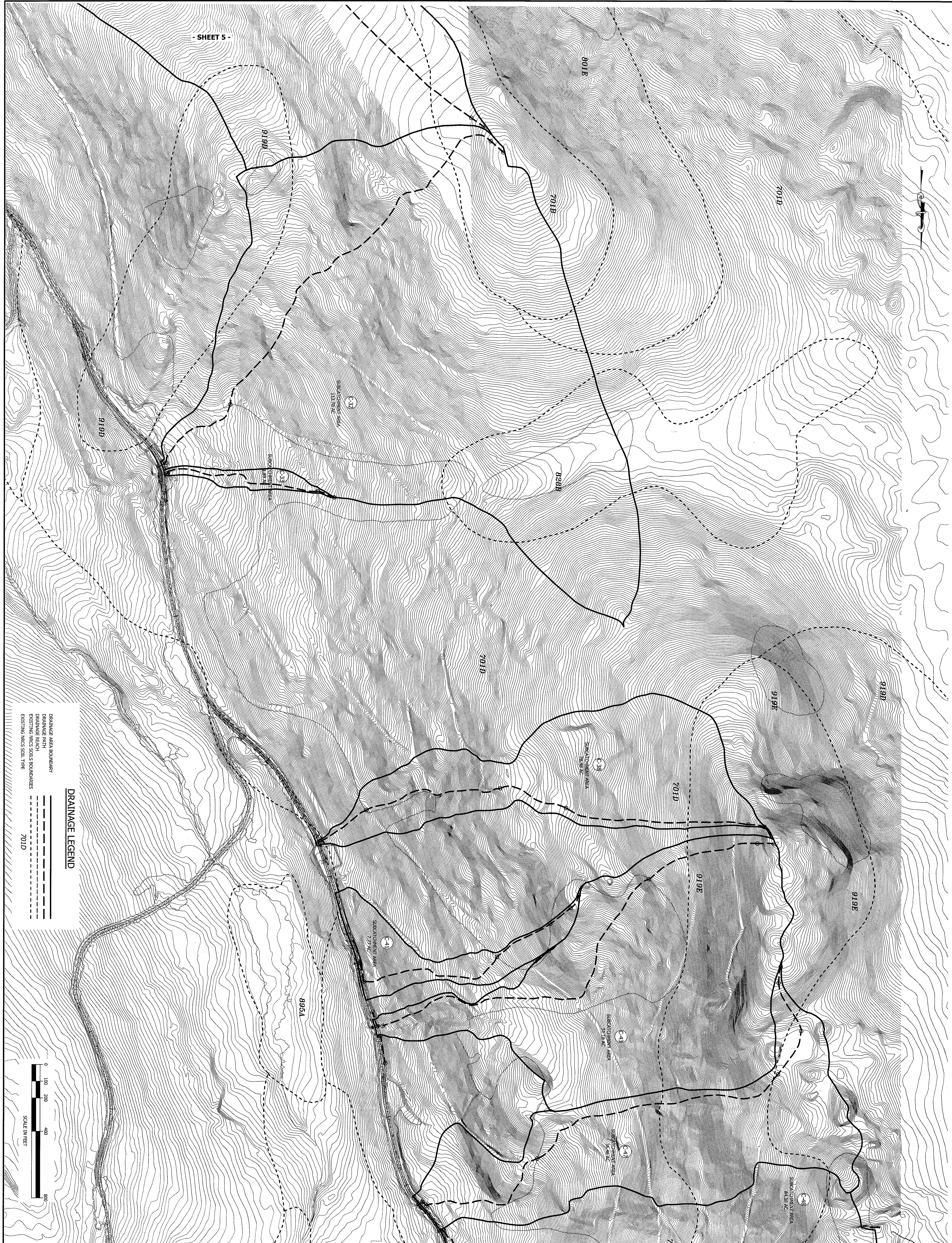

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CHECK'D BY: SML	ARCHIVE #: H-4498
SHEET 6	

GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE — PHILIP L. BEAULIEU No. 11909 — LICENSED PROFESSIONAL ENGINEER
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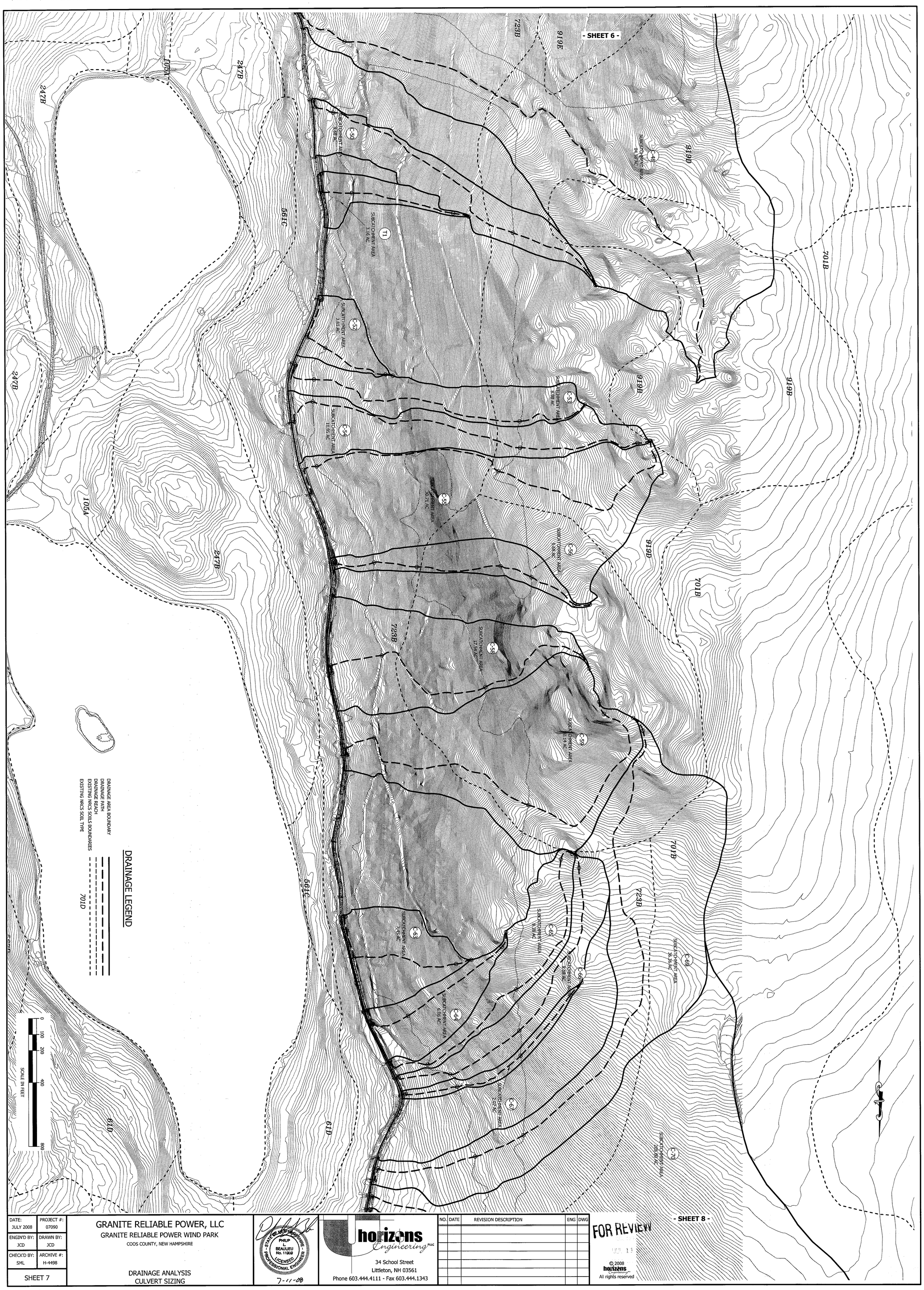

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SHEET 7	

GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK

COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE - PHILIP L. BEAULIEU No. 11909 - LICENSED PROFESSIONAL ENGINEER

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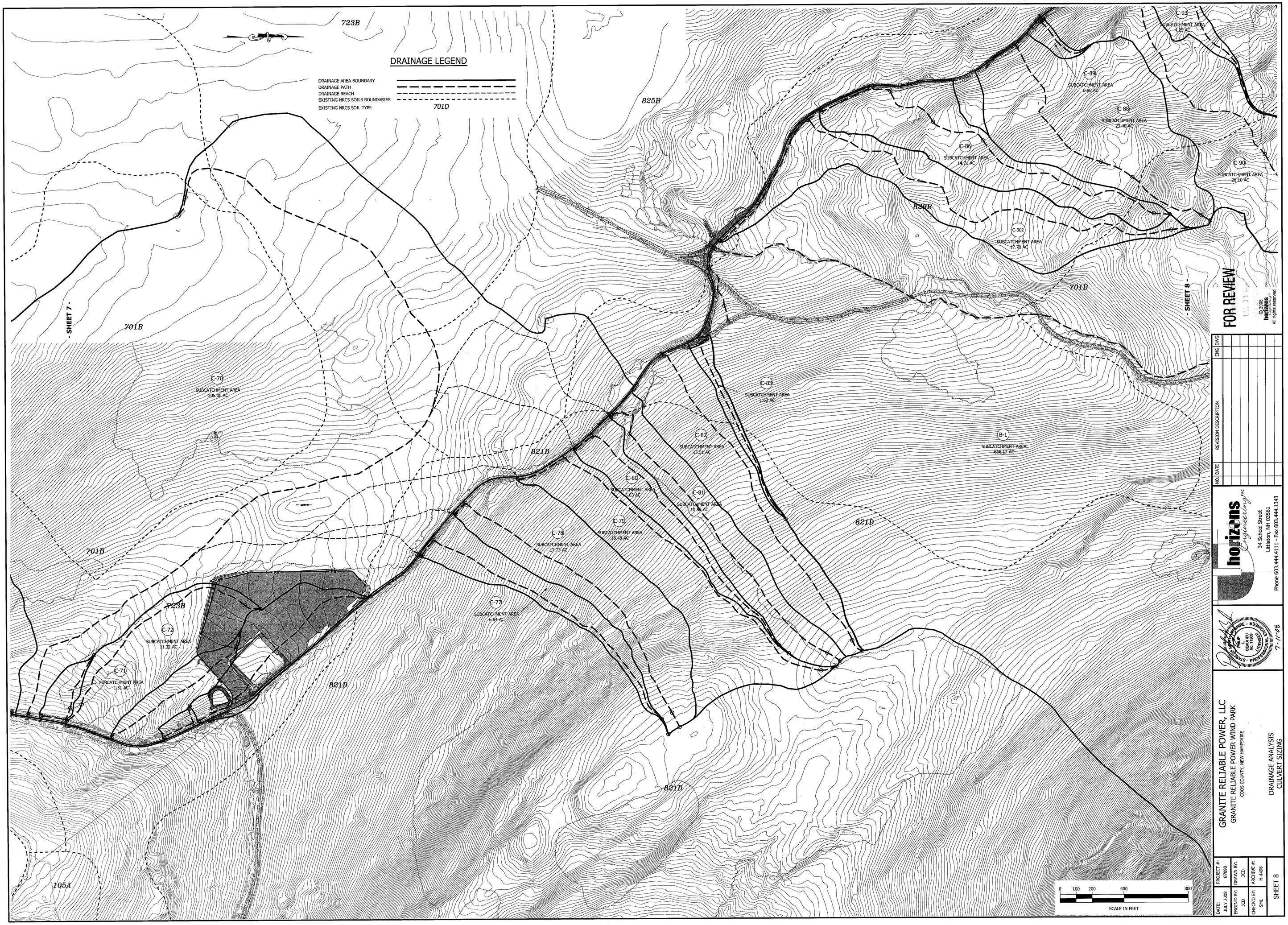

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GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
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DATE: JULY 2008	PROJECT #: 07050
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SHEET 8	

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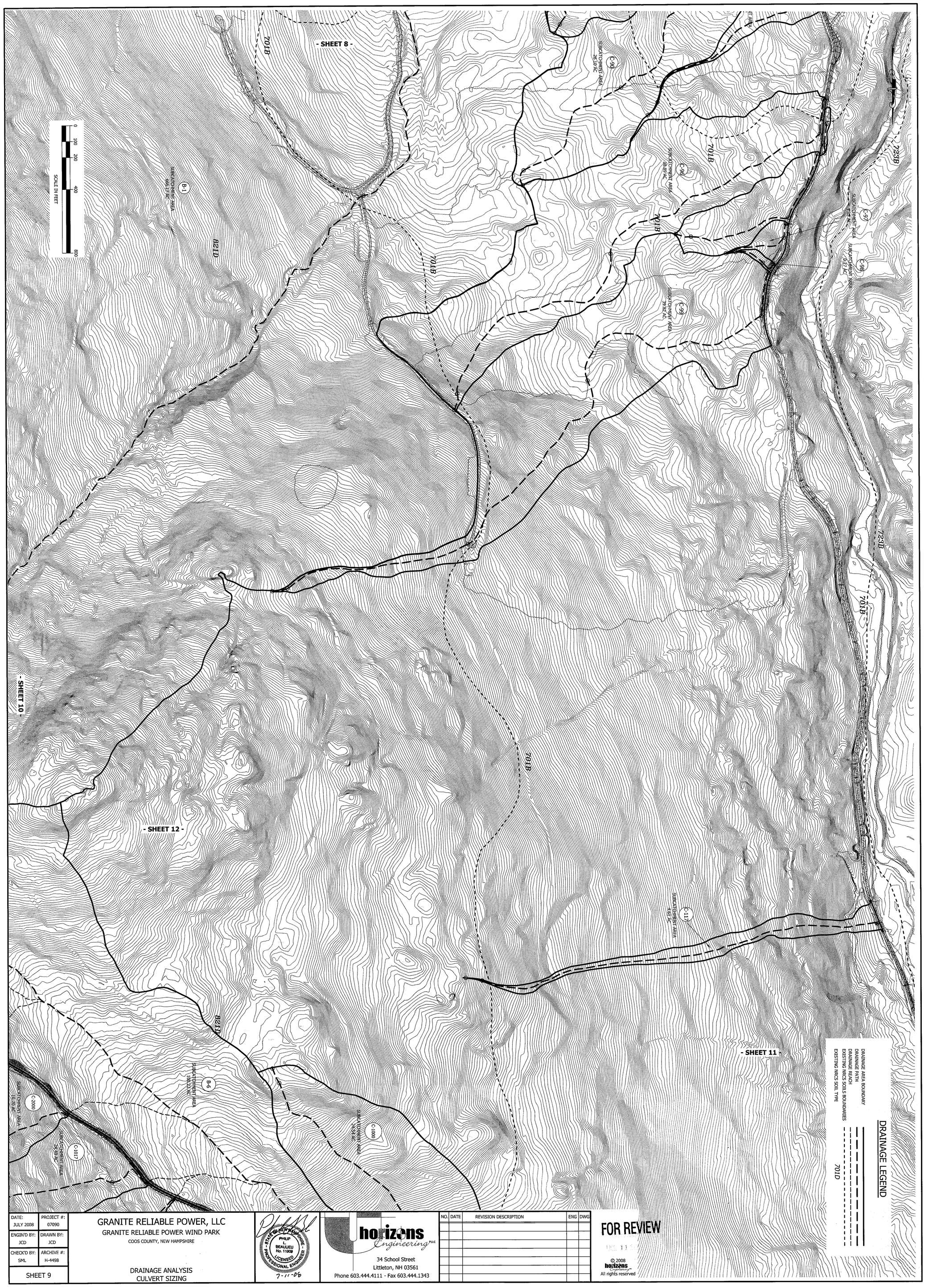

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SHEET 9	

GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK

COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE
PHILIP L. BEAULIEU No. 11009
LICENSED PROFESSIONAL ENGINEER
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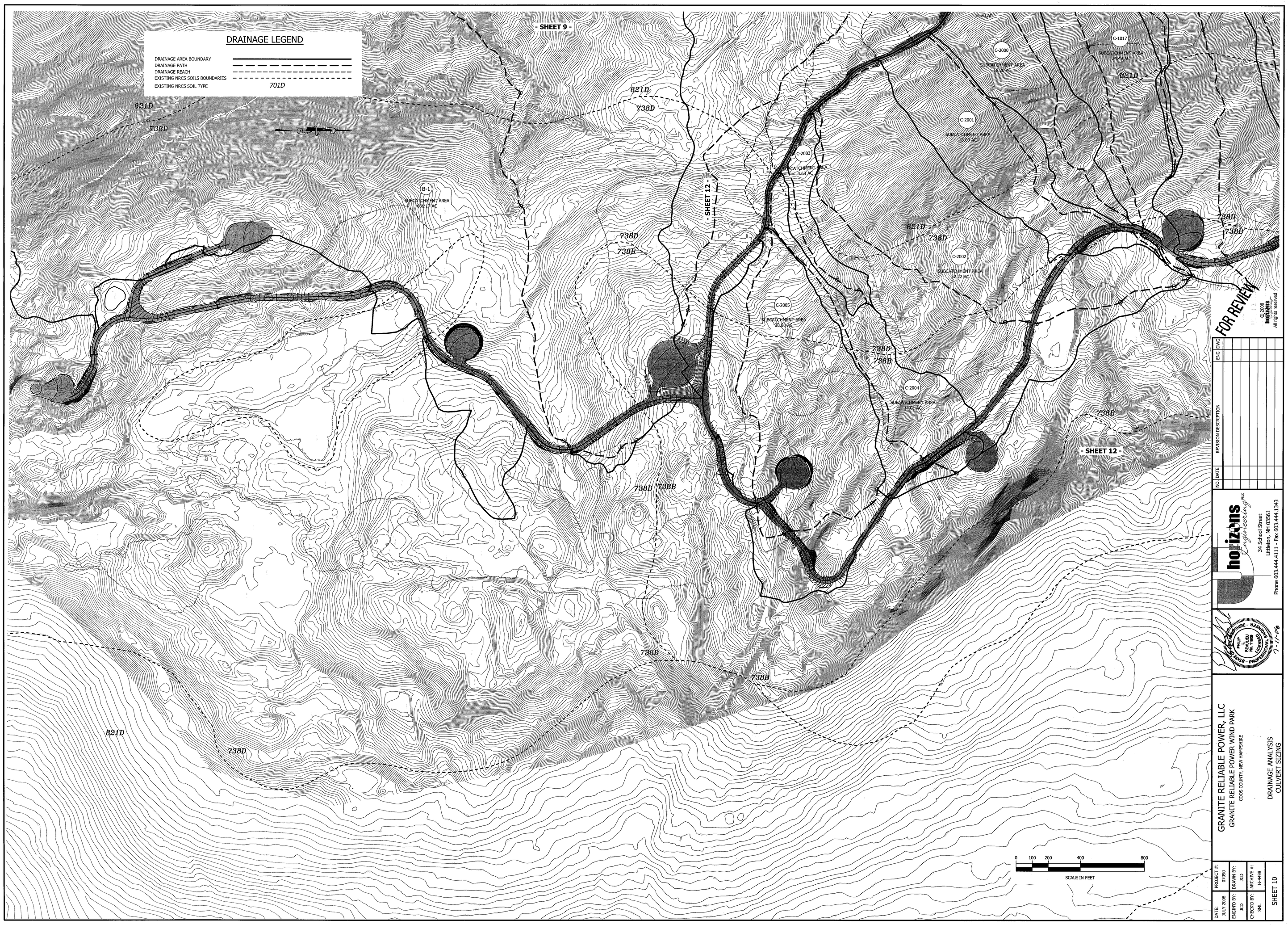

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STATE OF NEW HAMPSHIRE - PROFESSIONAL ENGINEER
PHILIP L. BEAULIEU
No. 11008
LICENSED
7-11-08

GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
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CHECK'D BY: SML	ARCHIVE #: H-4498

SHEET 10

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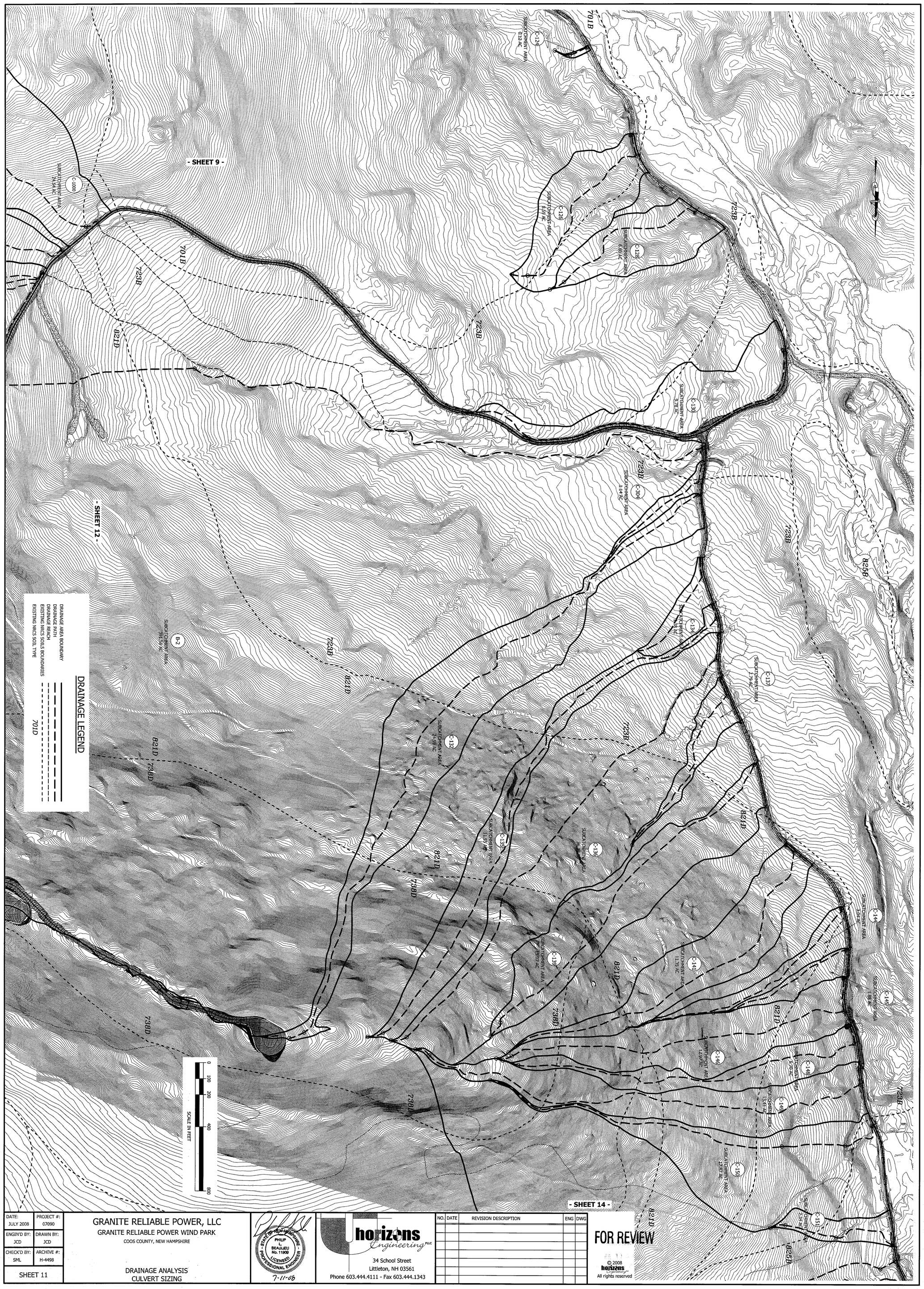

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SHEET 11	

GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK

COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE
PHILIP L BEAULIEU No. 11908 LICENSED
PROFESSIONAL ENGINEER
7-11-08

horizons Engineering PLLC
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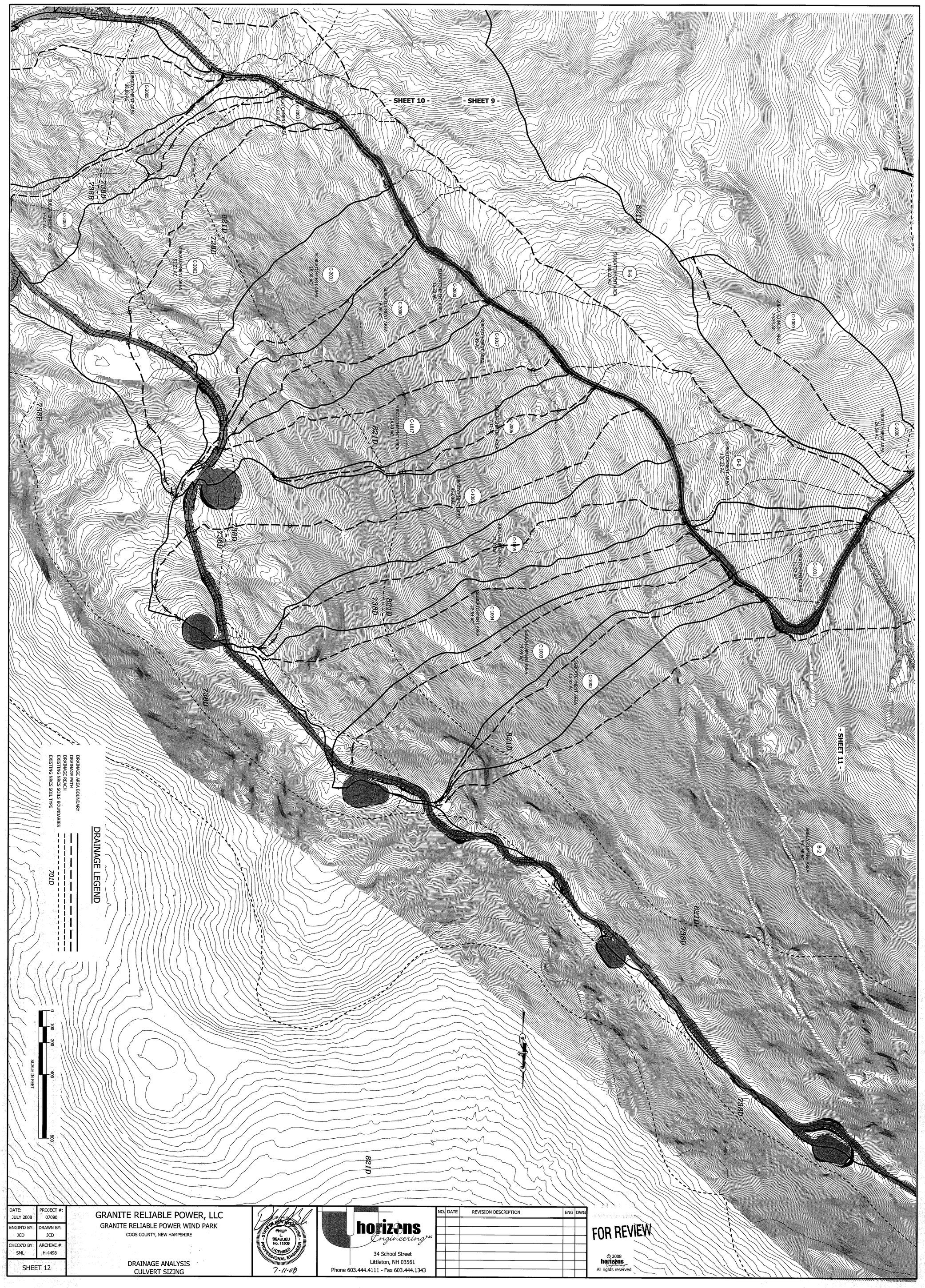

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SHEET 12	

GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK

COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE
PHILIP L. BEAULIEU No. 11909
LICENSED PROFESSIONAL ENGINEER
7-11-08

horizons Engineering LLC
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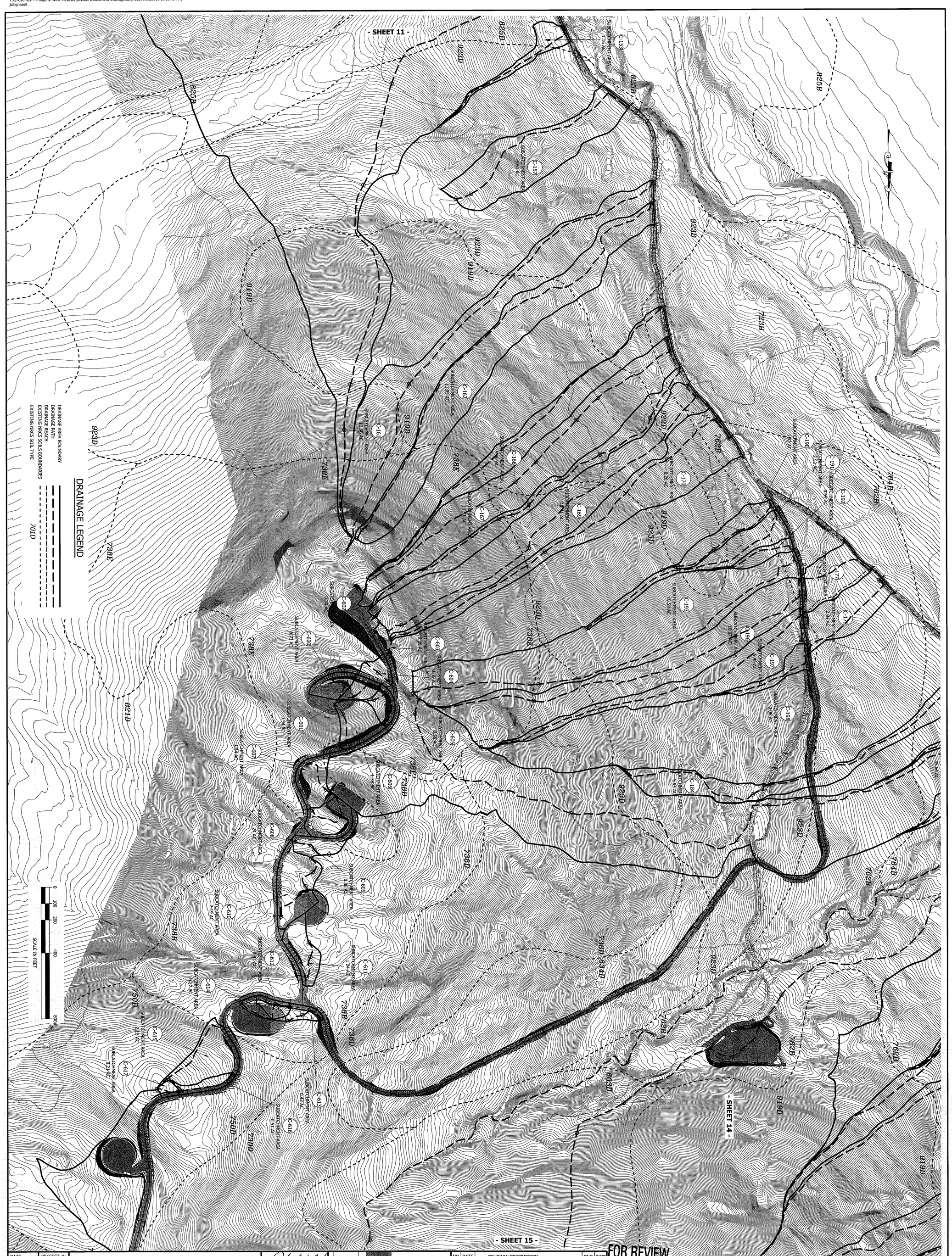

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GRANITE RELIABLE POWER, LLC

GRANITE RELIABLE POWER WIND PARK

COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

PHILIP L. BEAULIEU No. 11439 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

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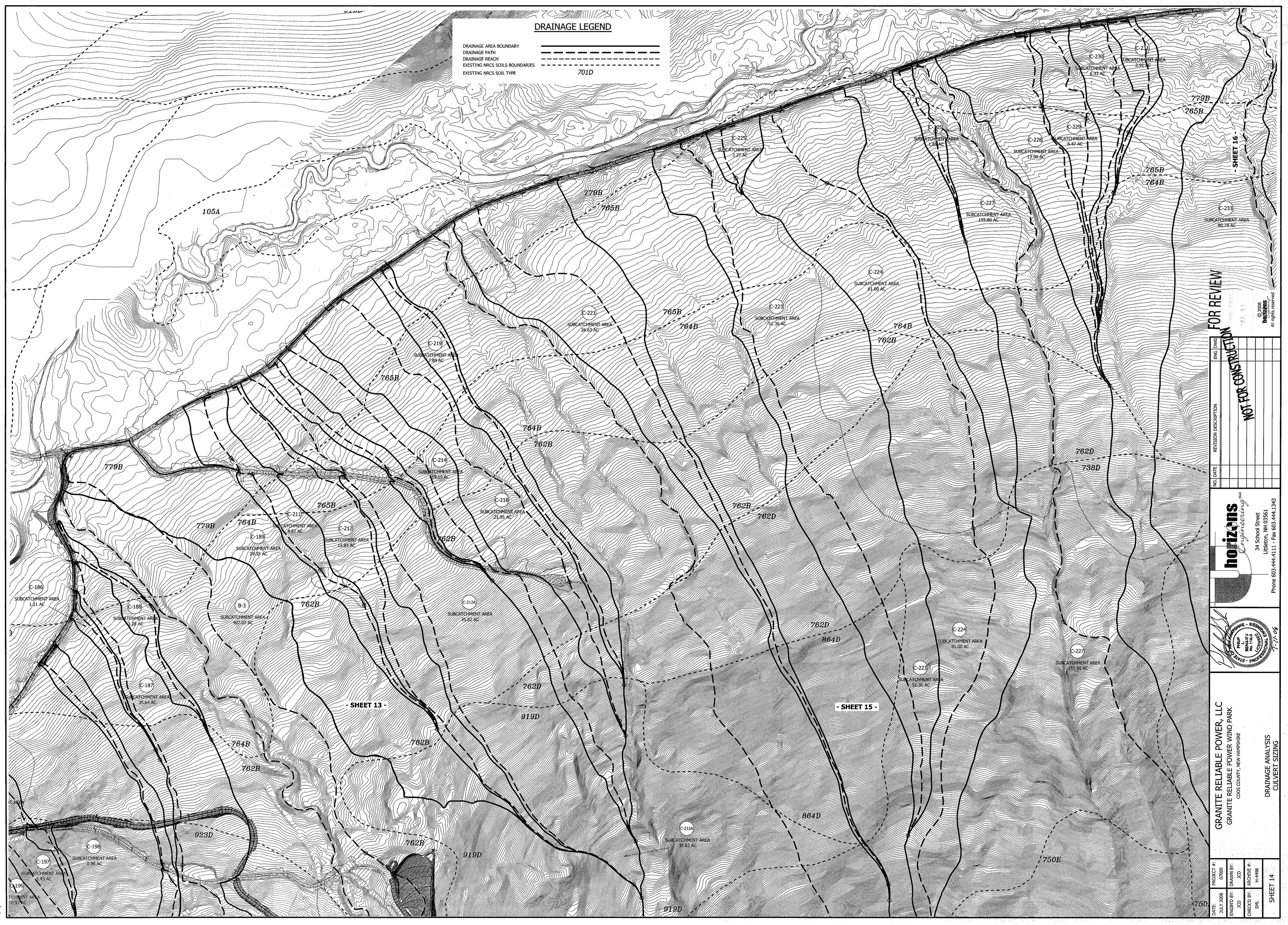

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34 School Street
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Phone 603.444.4111 - Fax 603.444.1343

STATE OF NEW HAMPSHIRE - PROFESSIONAL ENGINEER
PHILIP L. BEAULIEU No. 11903 LICENSED
7-11-08

GRANITE RELIABLE POWER, LLC
GRANITE RELIABLE POWER WIND PARK
COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

DATE: JULY 2008	PROJECT #: 07090
ENGIN'D BY: JCD	DRAWN BY: JCD
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SHEET 14

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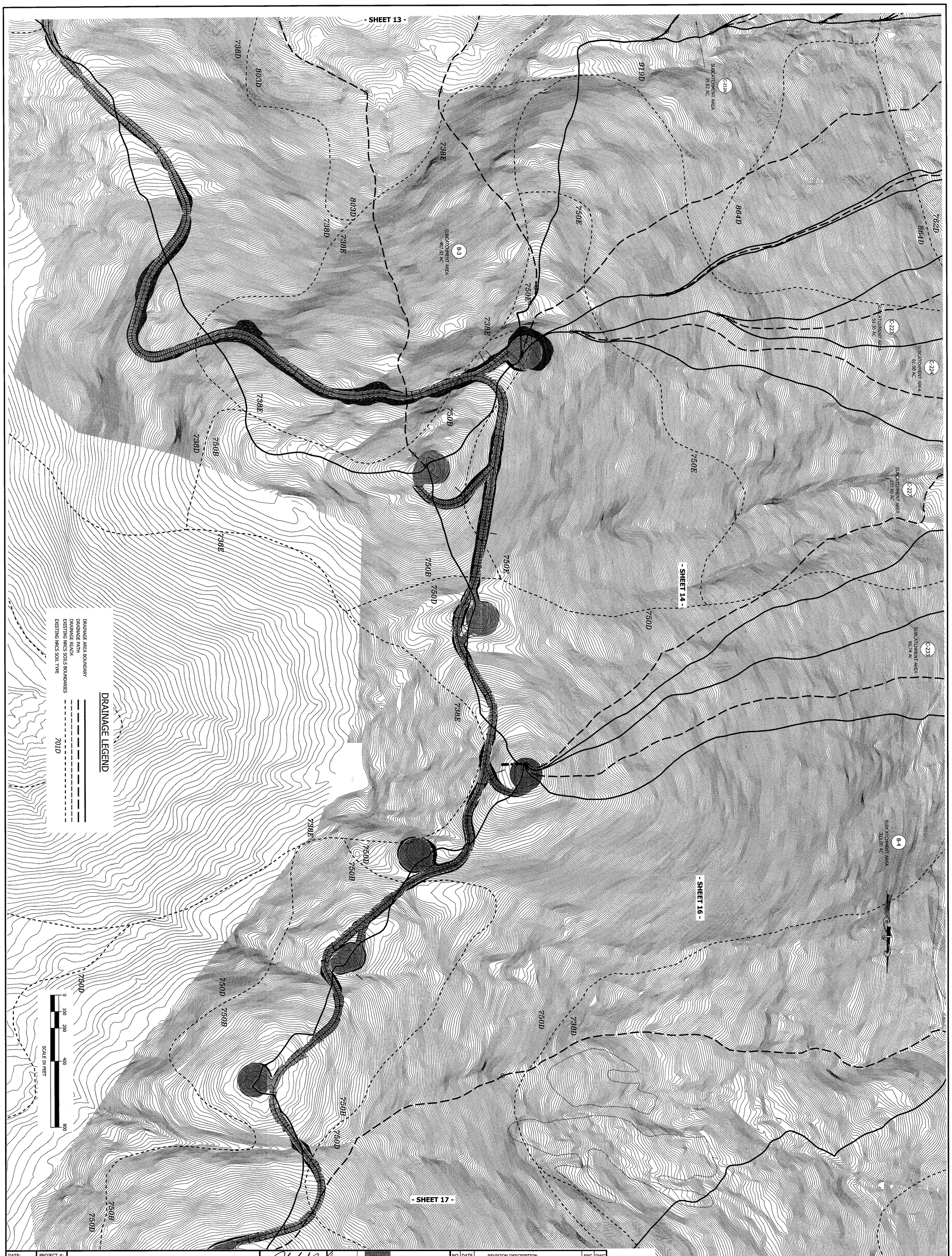

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COOS COUNTY, NEW HAMPSHIRE

DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE
PHILIP L. BEAUJEU
No. 11809
LICENSED
PROFESSIONAL ENGINEER
7-11-08

horizons Engineering LLC
34 School Street
Littleton, NH 03561
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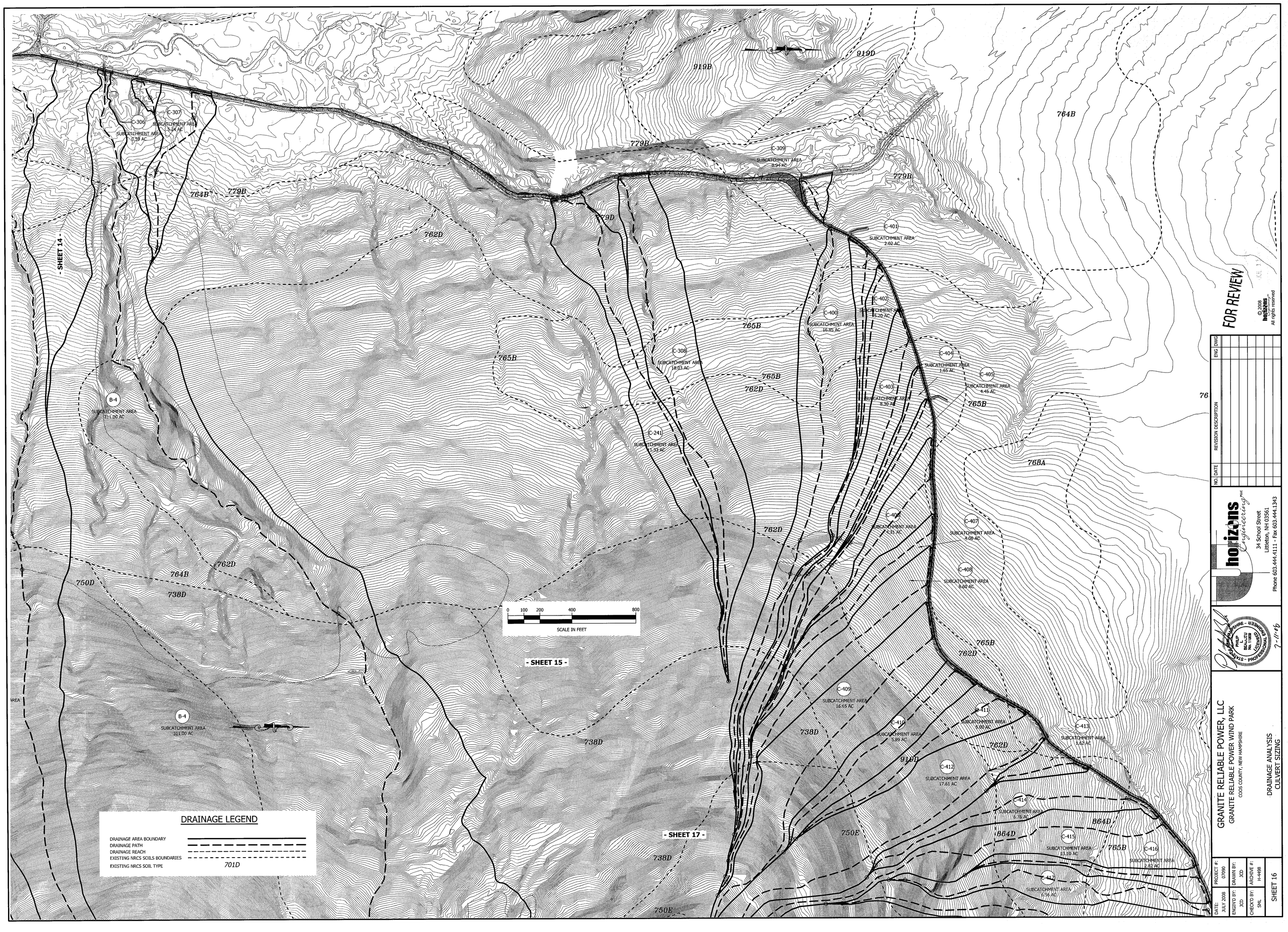

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DRAINAGE ANALYSIS
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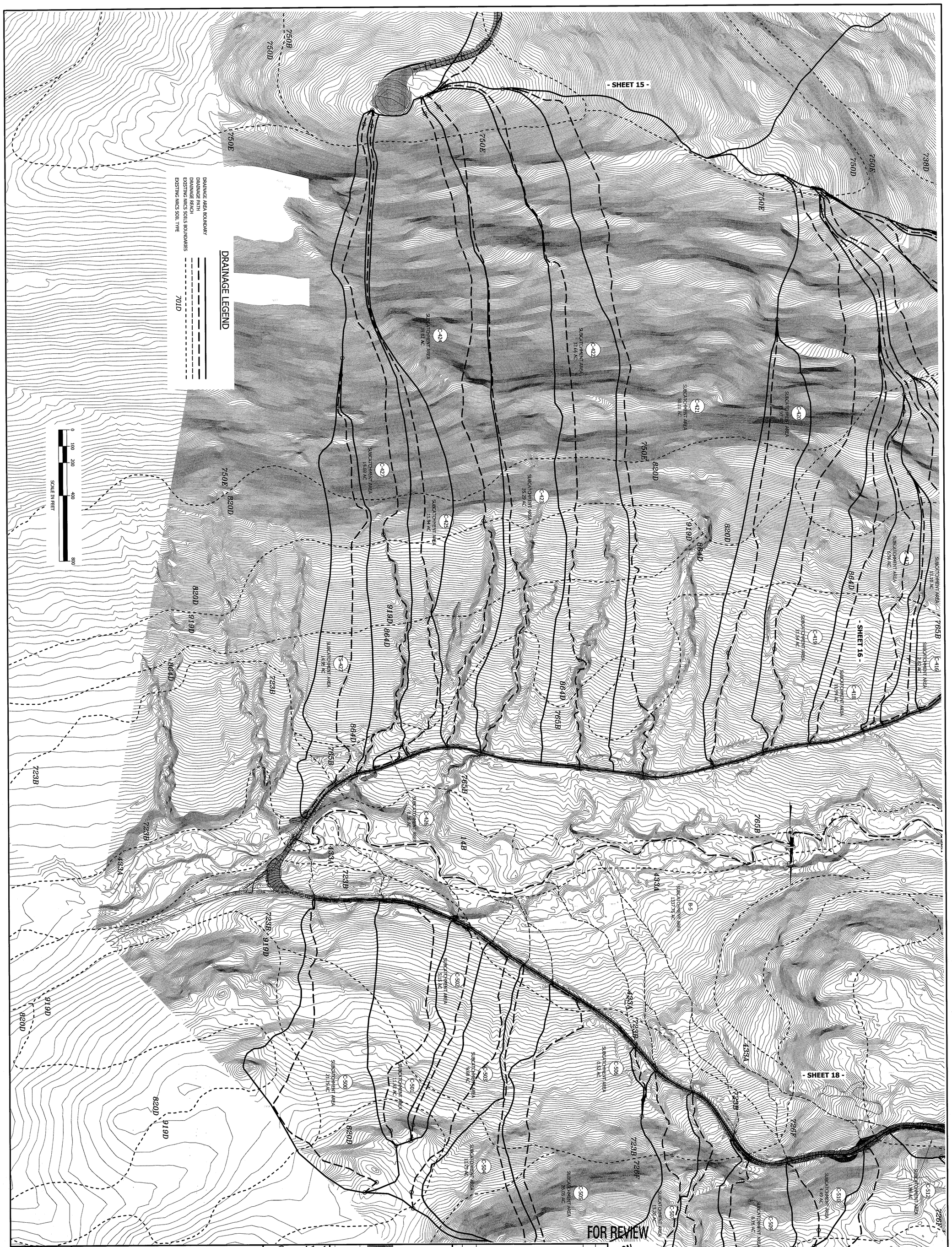

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DRAINAGE ANALYSIS
CULVERT SIZING

STATE OF NEW HAMPSHIRE PHILIP J. BEAULIEU No. 11963 LICENSED PROFESSIONAL ENGINEER
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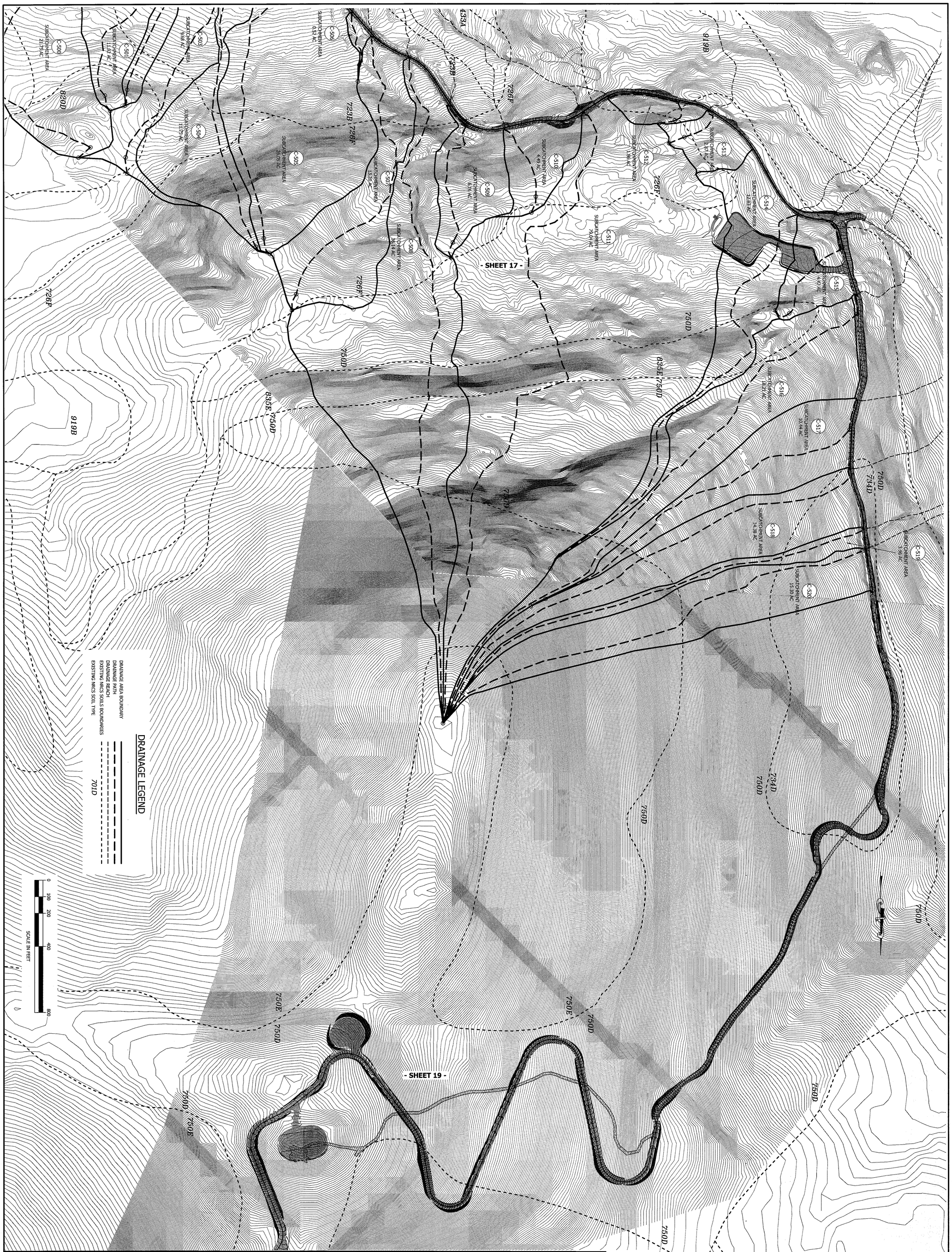

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DRAINAGE ANALYSIS
CULVERT SIZING

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