SUBDIVISION É CONSTRUCTION PLANS

THE HOMES AT

HAYES HILL

OLD DOVER ROAD ROCHESTER, NEW HAMPSHIRE



LIST OF PLANS

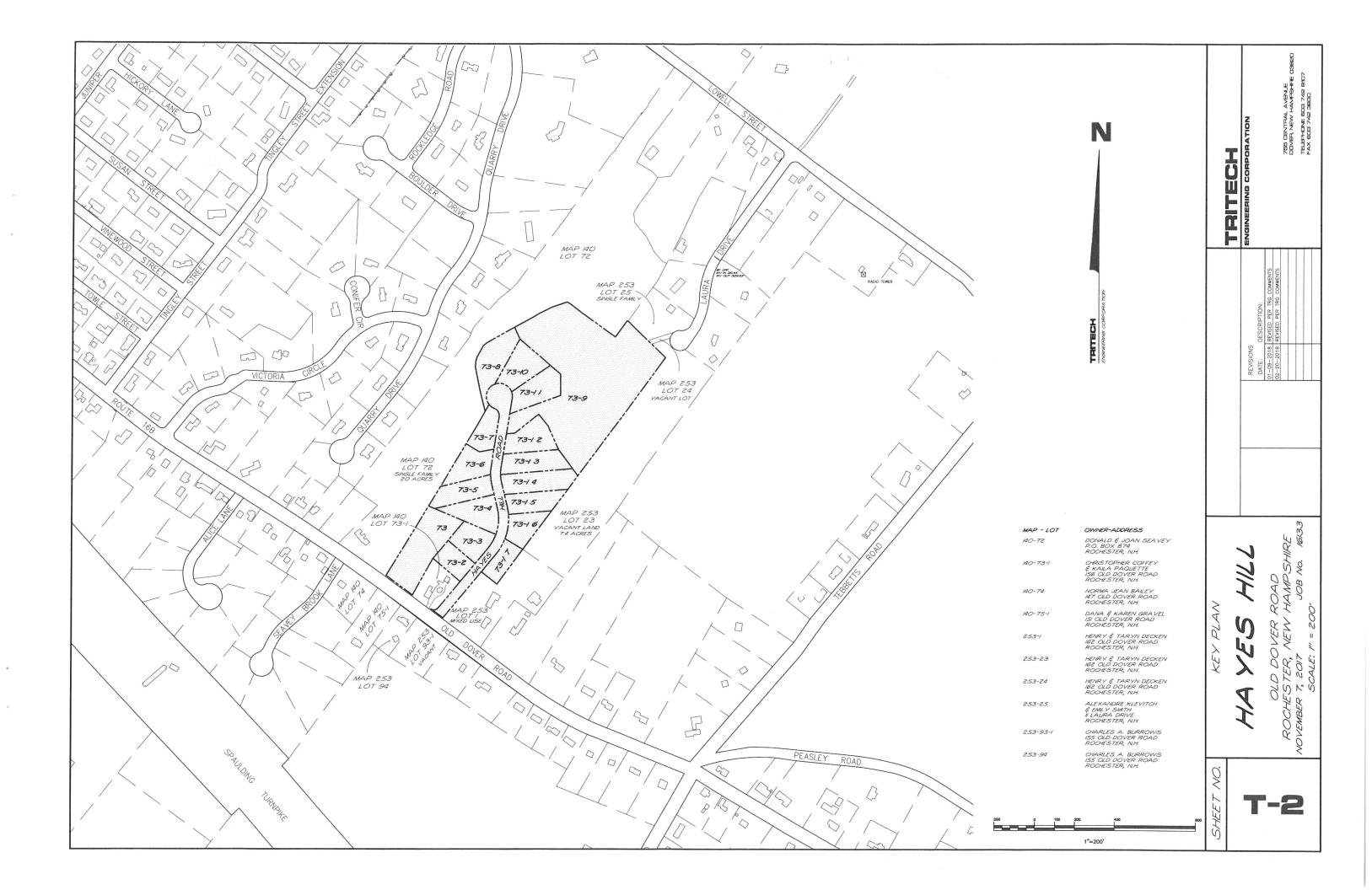
PREPARED BY

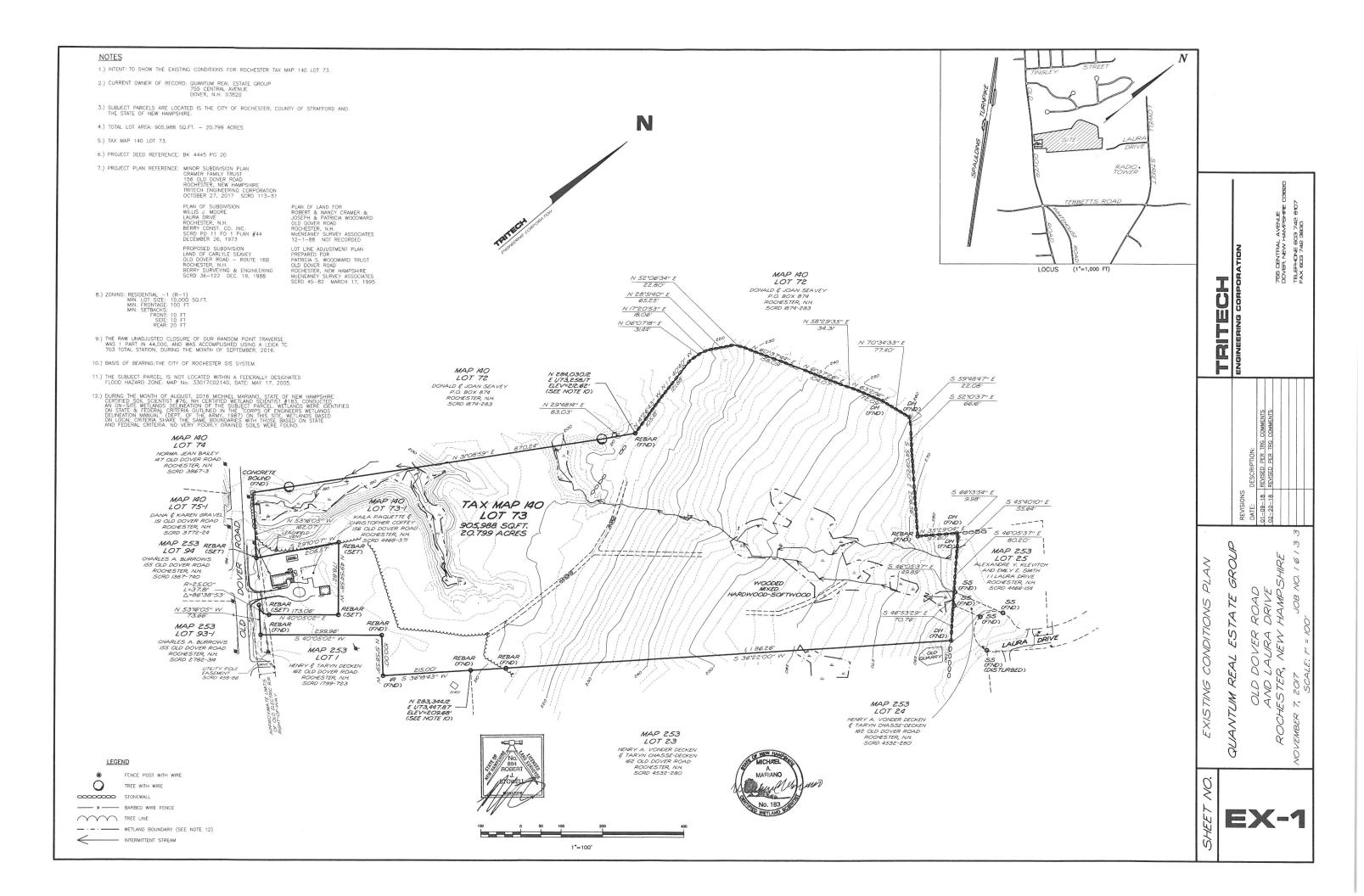


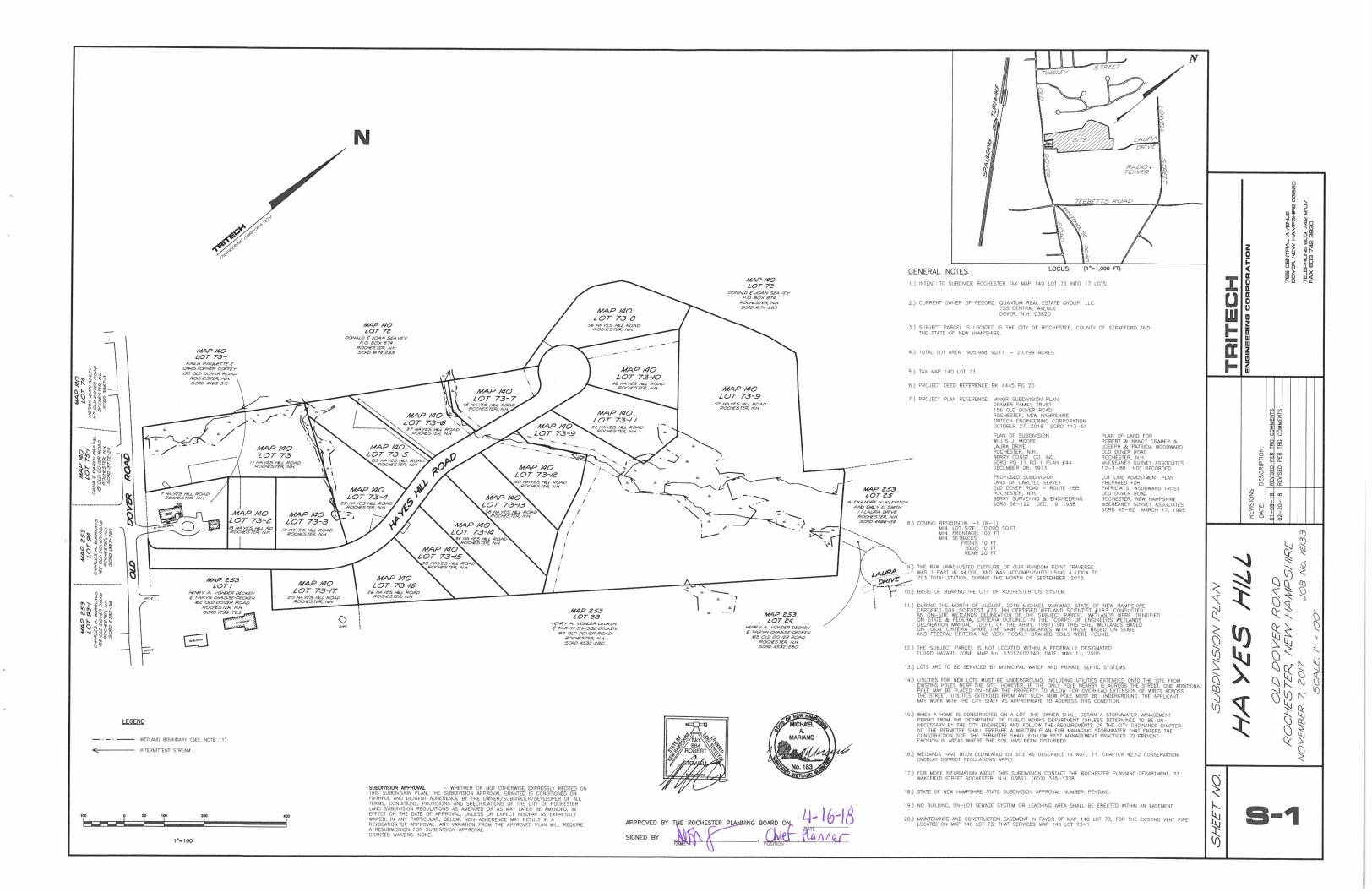
ENGINEERING CORPORATION

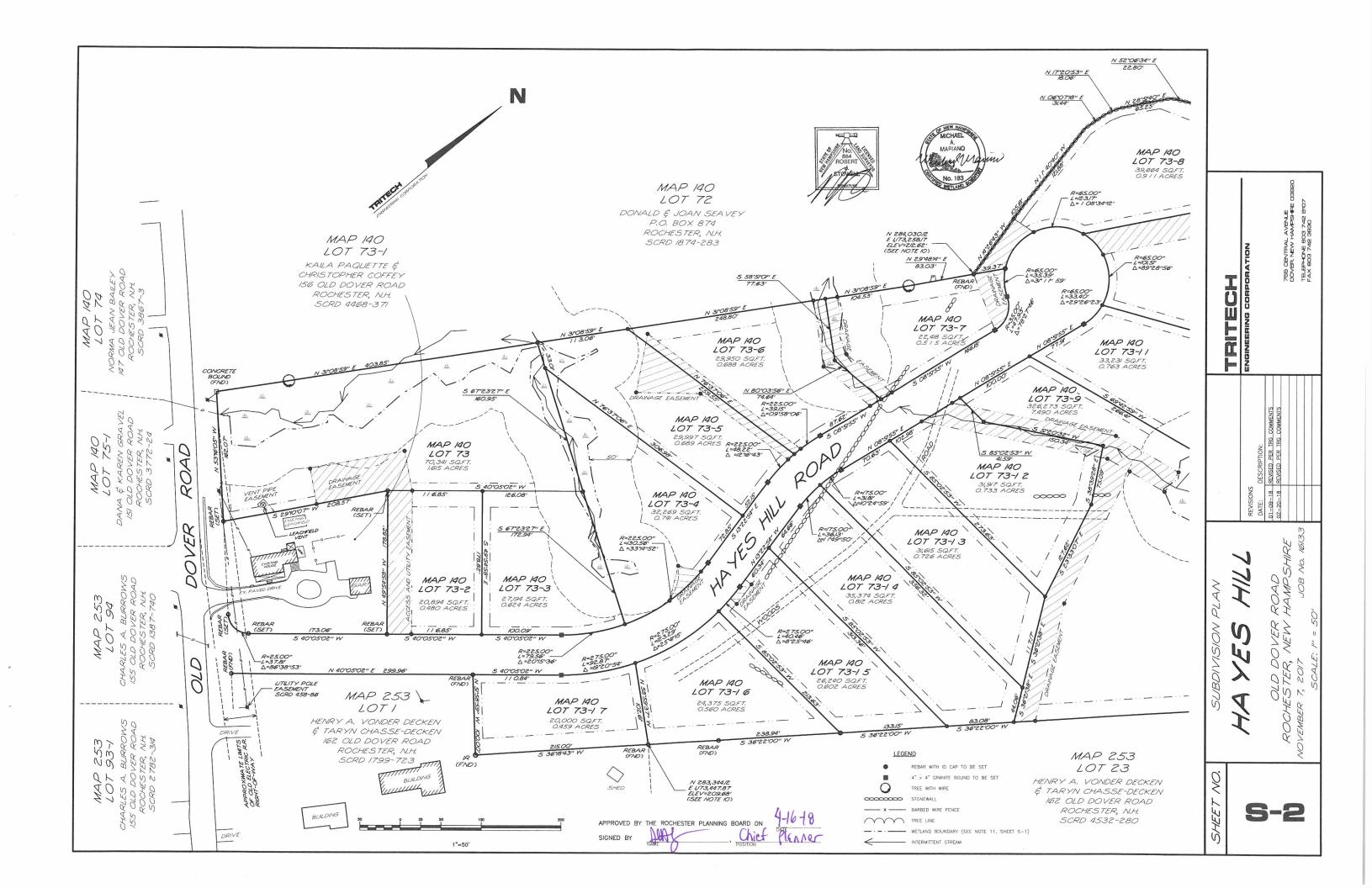


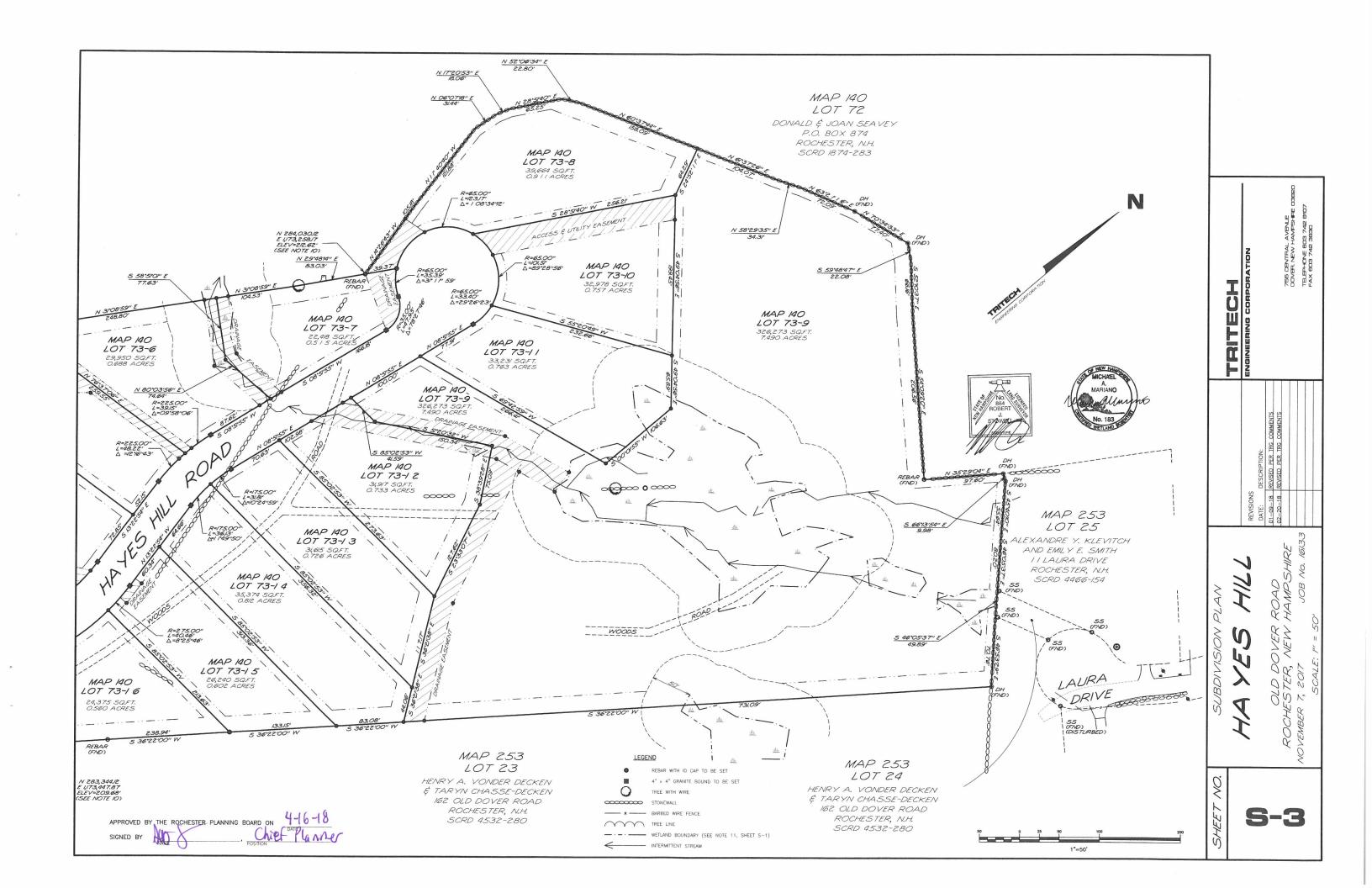


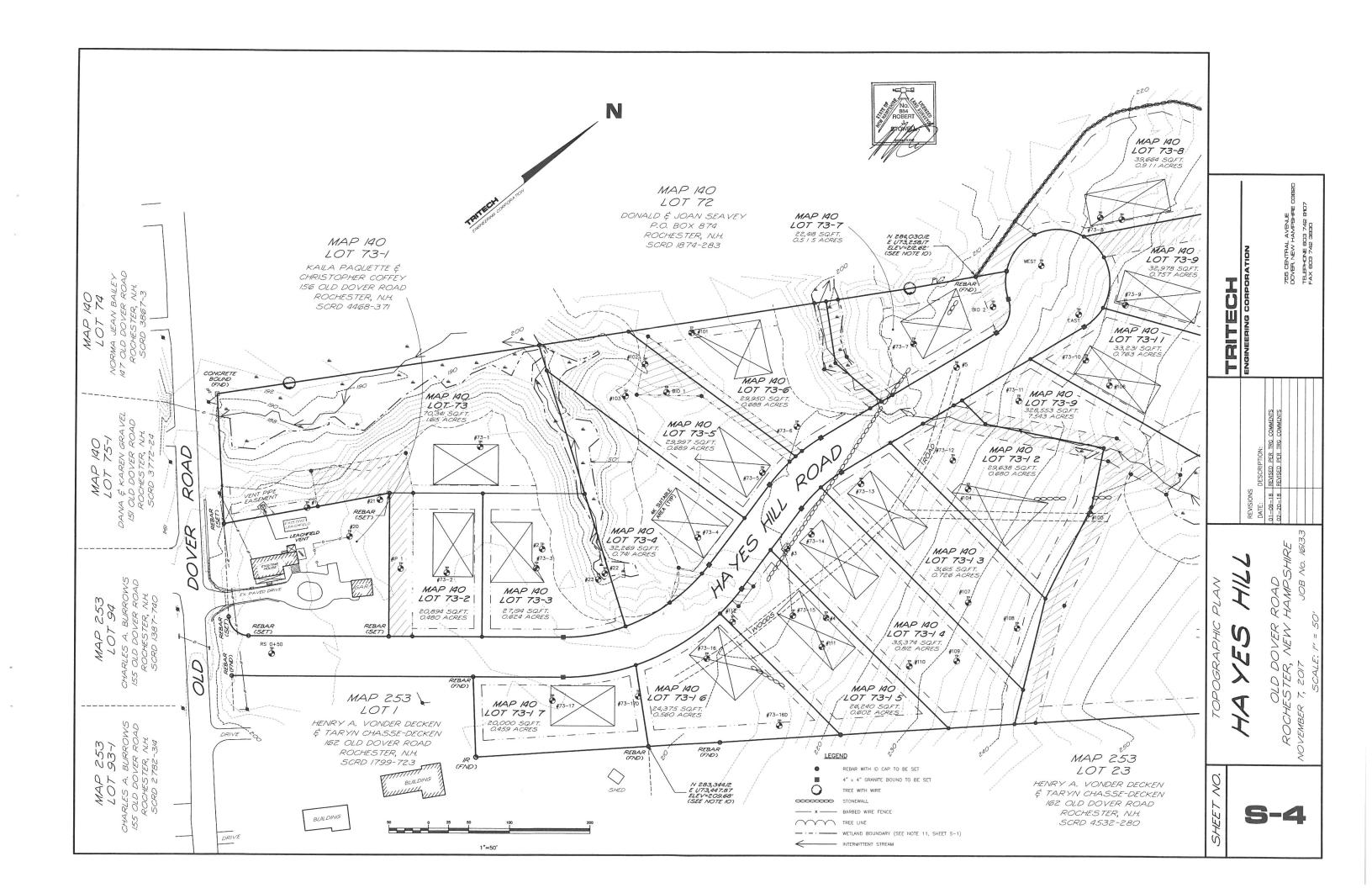


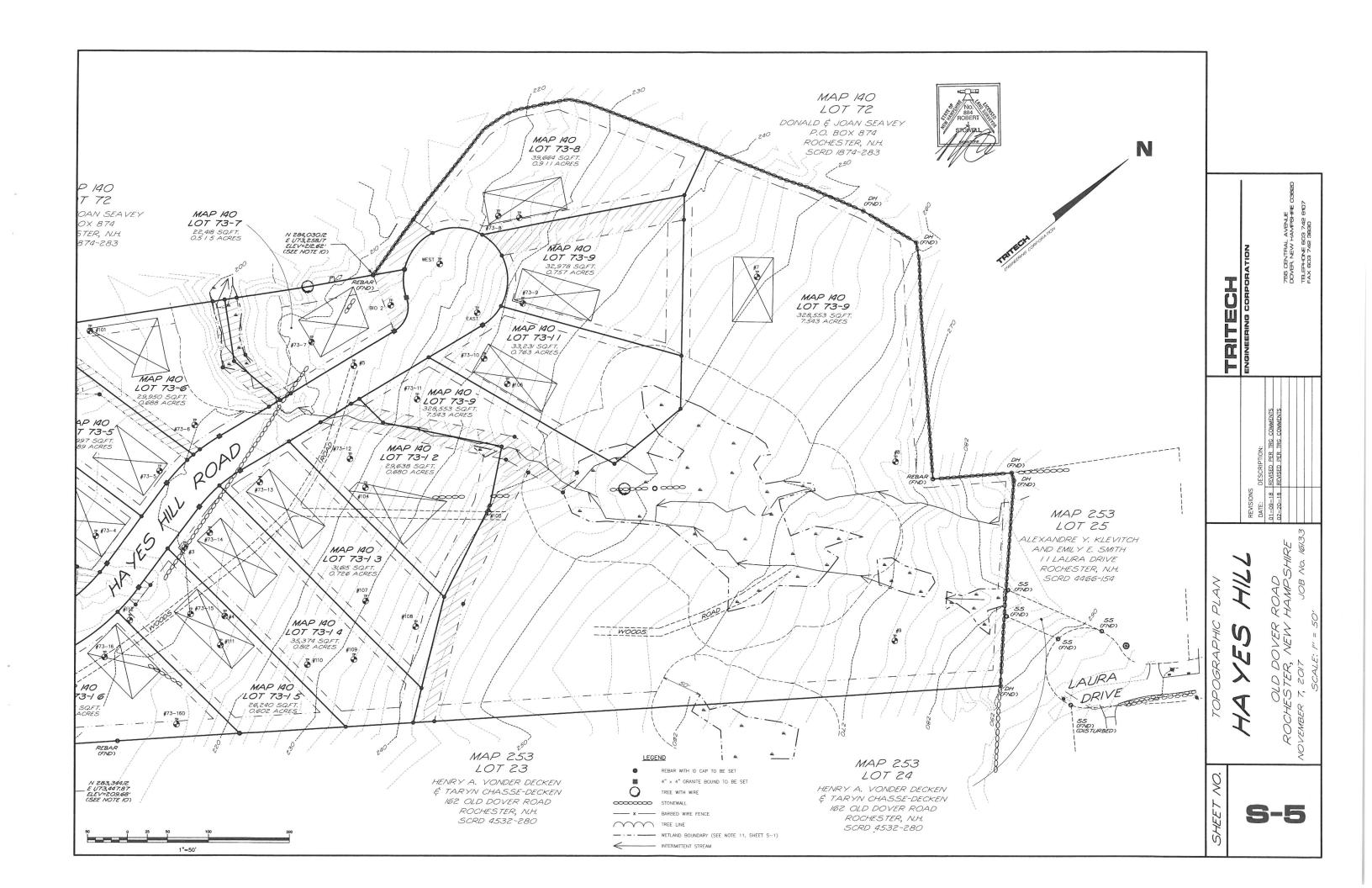


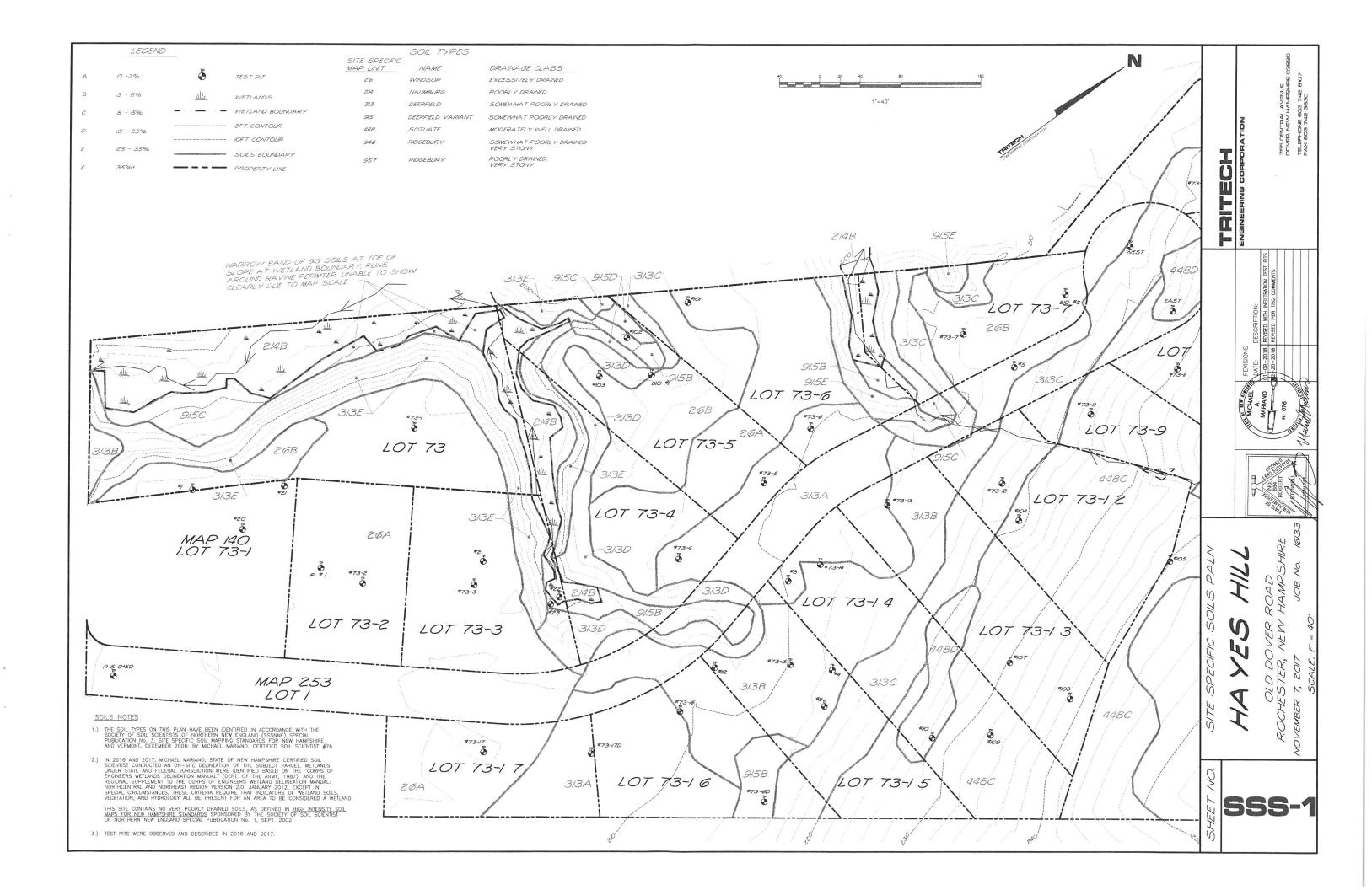


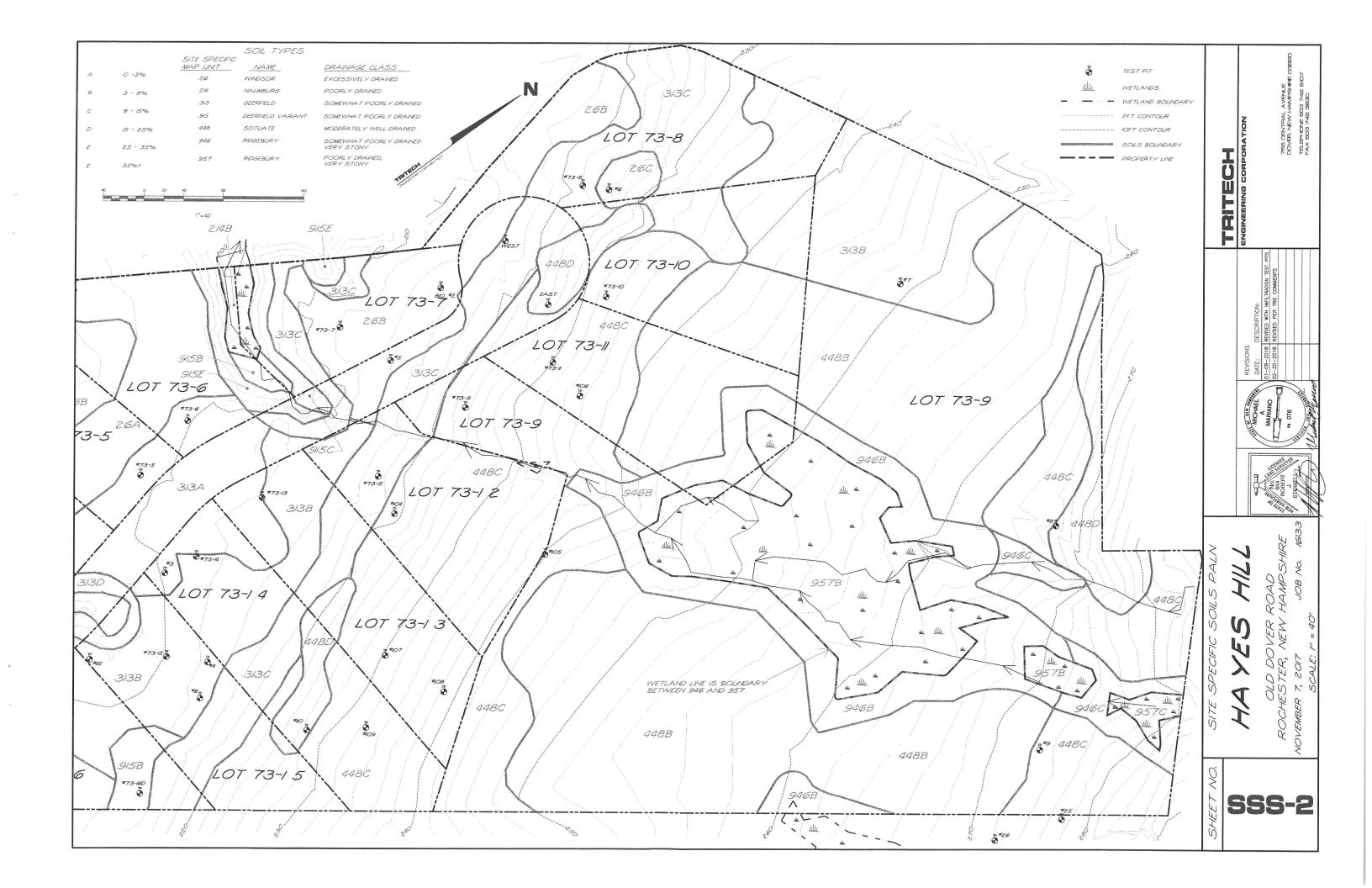






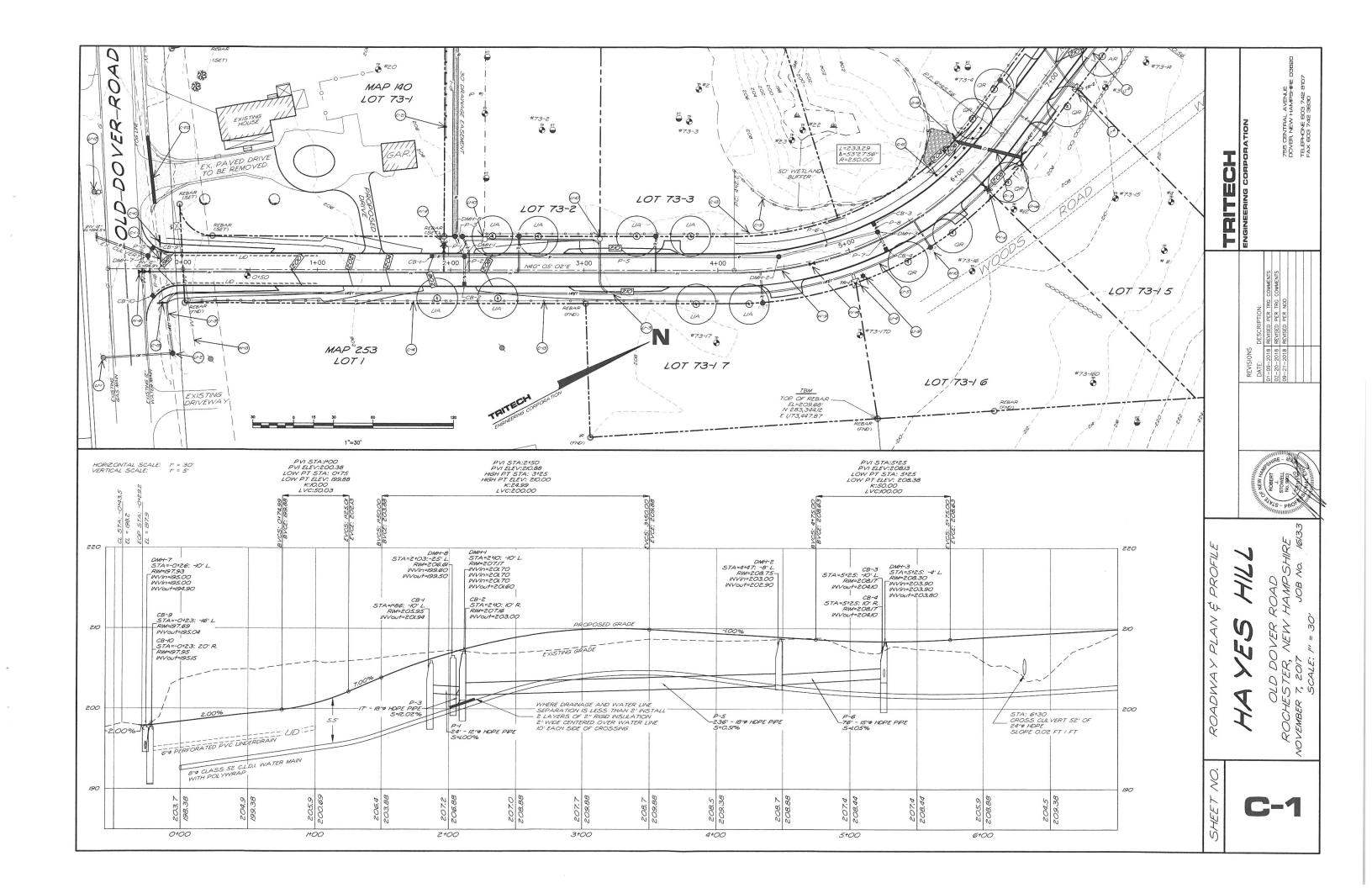


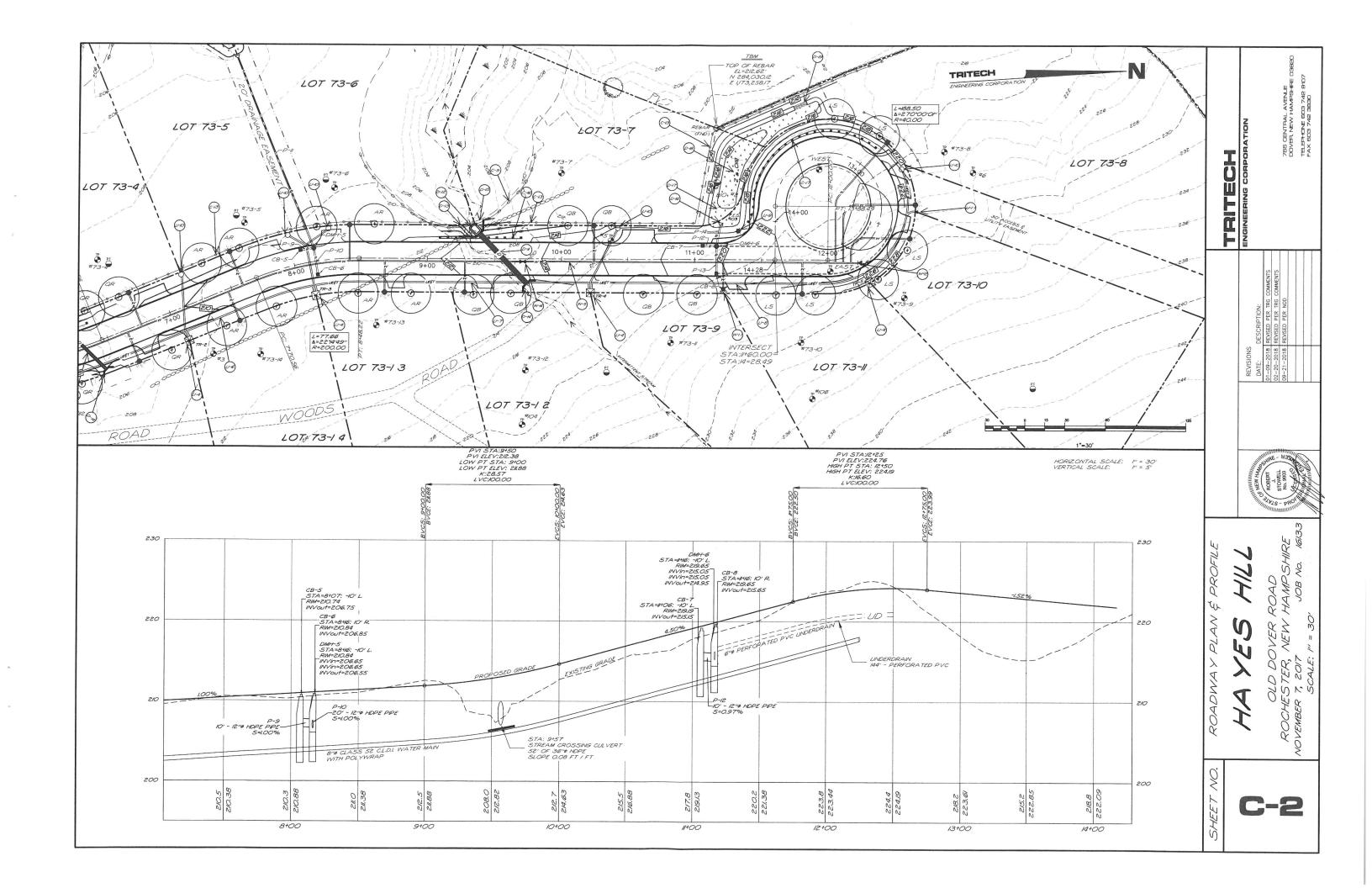




TEST_PIT_1	TEST PIT 2	TEST PIT 3	TEST PIT 4	TEST PIT 5	TEST PIT 6	TEST PIT 7	TEST PIT 8	TEST PIT 9	T T
TEST_PIT_1 OD - 08* DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. OB - 16* YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY LOGSE. 16 - 30* LIGHT YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY LOGSE. 30 - 66* BROWN (10YR5/3) SAND; SINGLE GRAIN; DRY, LOGSE. 30 - 66* BROWN (10YR5/3) SAND; SINGLE GRAIN; DRY, LOGSE. SERIES: WINDSOR LETTER OF YELLOWSH BROWN (10YR5/6) AND PROMINENT STRONG BROWN (10YR5/6) AND PROMINENT STRONG BROWN (10YR5/8) RELICT MOTTALES; SINGLE GRAIN; DRY, LOGSE. SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >66* OBSERVED WATER. NONE RESTRICTIVE LAYER NONE.	TEST PIT 2 00 - 09" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 09 - 12" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, LOOSE. 12 - 27" LIGHT YELLOWISH BROWN (10YR6/4) SAND; SINGLE GRAIN; DRY, LOOSE. 27 - 66" BROWN (10YR6/4) SAND; SINGLE GRAIN; DRY, LOOSE. SERIES: WINDSOR ESTIMATES SEASONAL HIGH WATER TABLE: >66" OR STENCTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A	TEST_PIT_3 00 - 09* DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 09 - 27* YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 27 - 60* PALE BROWN (10YR6/3) AND BROWN (2.5*Y5/3) SAND; SINGLE GRAIN, DRY, LOOSE. SERIES: WINDSOR FESTIMATED SEASONAL HIGH WATER TABLE: >60* OBSERVED WATER NOWE RESTRICTIVE LAYER: NOME SOIL HYDROLOGIC GROUP: A	TEST PIT 4 00 - 12" DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; DRY, SOFT 12 - 24" YELLOWSH BROWN (10YR5/6) LOAMY SAND, WEAK MEDIUM GRANULAR STRUCTURE; DRY, SOFT. 24 - 32" OLIVE (SY4/4) SAND: SINGLE GRANK MODERATELY CEMENTED; DRY, VERY HARD. 32 - 60" LIGHT GLIVE BROWN (2.5YS/4) GRAVELLY AND COBBILY LOAMY SAND; MODERATE MEDIUM GRAVELLY AND COBBILY LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD. SERIES: WINDSOR NOTE: ORTSTEIN DISCONTINUOUS MAPPED WITH DEERFIELD CSTRUCTURE LAYER 24" SOBSERVED WATER NONE RESTRICTIVE LAYER 24" SOIL HYDRULAYER 24" SOIL HYDRULAYE	TEST_PIT_5 00 - 08" DARK BROWN (10YR4/3) SANDY LOAK: WEAK FINE GRANULAR STRUCTURE; DRY, SOFT 08 - 24" STRONG BROWN (7.5YR5/8) LOAMY SAND; WEAK MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD. 24 - 40" STRONG BROWN (7.5YR5/8) STONY SAND; SINGLE GRAIN, DRY, LOOSE, STRUE FRAGMENTS ON DRE PIT FACE 40 - 48" YELLOWSH BROWN (10YR5/6) STONY SAND; SINGLE GRAIN; DRY, LOOSE, SINGLE GRAIN; DRY, LOOSE, DRY, SAND; SINGLE GRAIN; DRY, LOOSE, DRY, SAND; SINGLE GRAIN; STRONG SROWN (7.5YR5/8) AND DISTINCT YELLOWSH BROWN (10YR5/6) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT GRAY (10YR6/7), REDOX DEPLETIONS; SINGLE GRAIN, BORY, LOOSE REALD TO THE TOWN OF THE TOWN	TEST PIT 6 00 - 10* DARK BROWN (10YR4/4) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 10 - 38* SIROND BROWN (7.5YR5/8) SAND; SINGLE GRAIN; DRY, LOOSE 38 - 42* YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, LOOSE. 42 - 54* YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; MODERATELY CEMENTED; DRY, VERY HARD. 54* - 65* LIGHT OLIVE BROWN (2.5Y5/4) SAND; COMMON MEDIUM PROMINISTY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; DRY, SLIGHTLY HARD.	TEST PIT Z 00 - 08" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 08 - 30" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; DRY, LOOSE. 30 - 38" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW MEDIUM DISTINCT GRAY (10YR6/1) REDOX DEPLETIONS; SINGLE GRAIN; DRY, LOOSE. 38 - 45" SAME AS ABOVE BUT WEAKLY CEMENTED, DRY, HARD. 45" - 55" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND, MANY MEDIUM DISTINCT GRAY (10YR6/1) REDOX DEPLETIONS AND COMMON MEDIUM PROMINENT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.	TEST PIT 8 00 - 07' DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 07 - 14" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD 14 - 20' STRUNG BROWN (7.5YR5/8) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD. 20 - 32" LIGHT OLIVE BROWN (2.5YS/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD. 32" - 50" LIGHT OLIVE BROWN (2.5YS/4) LOAMY SAND; MODERATE MEDIUM PROMINENT STRONG BROWN (7.5YB5/6) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT ORDEROWN (7.5YB5/6) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT ORDEROWN (1.5YB5/6) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT ORDEROWN (1.5YB6/6) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT ORDEROWN (1.5YB6/6) REDOX DEPLETIONS; DRY, SLIGHTLY HARD.	TEST_PIT_9 00 - 08" DARK BROWN (10/R4/4) SANDY LOAM: WEAK FINE GRANULAR STRUCTURE; DRY, SOFT. 08 - 36" YELLOWISH BROWN (10/R5/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLOPHITY HARD 6 36" BEDROCK SERIES: TUNBRIDGE ESTIMATED SEASONAL HIGH WATER TABLE: NONE GBSERVED WATER: NONE RESTRICTIVE LAYER: NONE BEDROCK AT 36" SOIL HYDROLOGIC GROUP: C	FRING CORPORATION 755 GENTRAL AVENJE DOVER, NEW HANK-18-FE CI3820 TELEPHONE 603 742 8107 FAX 603 742 3830
TEST PIT 10 100 - 104* DARK BROWN (10YR4/4) SANDY LOAM, WEAK FINE GRANDLAR STRUCTURE, DRY, SOFT 104 - 49* YELLOWISH BROWN (10YR5/6) SAND, FEW THISH MORTZONTAL MANUAL STRUCK STRUCK SAND, BROWN (2.5Y8/6) SAND, GROWN (2.5Y8/2) REPSY LORE TIONS, SINGLE GRAND, DRY, DOSE. SERIES: WINSOR ESTIMATED SEASONAL HIGH WATER TABLE: 49* OBSERVED WATER. NONE RESTRIGITE LAYER. NONE SOIL AYDROLOGIC GROUP: A	DARK BROWN (10/Rs/A) SANDY LOAM, WEAK FINE GRANDLAR STRUCTURE; DRY, SOE 08 – 42" YELLOWISH BROWN (10/Rs/6) DOAMY SAND, SINGLE GRAIN; DRY, LOOSE 42 – 54" LIGHE DLIVE BROWN (2.5YS/A) SAND, STRONG BROWN (7.5YB /8) RELICT MOTILES; SINGLE GRAIN, STRONG BROWN (7.5YB /8) RELICT MOTILES; SINGLE GRAIN, DRY, LOOSE. 54 – 60" SRONG BROWN (10/Rs/6) SAND, SINGLE GRAIN, DRY, LOOSE. SERIES, WINDSOR ESTILIATED SEASONAL HIGH WATER TABLE NONE OBSTRVED WATER: NONE RESTILIATED SEASONAL HIGH WATER TABLE NONE OBSTRVED WATER: NONE SOIL HYDROLOGIC GROUP: A	TEST_PIT_12 OD — 06: DARK BROWN (10)YRA/3/SANDY LOAM; WEAK FINE GRAMULAR STRUCTURE, DRY, SQ.*. O6 — 24: YELLOWSH BROWN (10)YRA/6) OAMY SAND; WAK FINE GRANULAR STB/CTURE; DRY, SBGHTLY HAJBO 24 — 45: LOAMS LIVE BROWN (25/5/4) OAMY SAND; GROWN GRANULAR STRUCTURE; DRY, SLGHTLY YARD. LOAMS SAND, WOODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLGHTLY YARD. LOAMY SAND, COMMON MEDIUM PROWN (25/5/4) OAMY SAND, COMMON MEDIUM PROWNERT SAND, FIRE PINE AND MIN CONCENTRATIONS, FIRE PINE PINE AND MIN CONCENTRATIONS, FIRE PINE PINE AND MIN CONCENTRATIONS, FIRE PINE PINE PINE PINE PINE PINE PINE PIN	IEST PIT 20 OO - 17* DARK BROWN (10YR4/3) LOAMY SAND, WEAK FINE GRANULAR STRUCTURE: MOIST, FRIABLE. 17 - 36* LIGHT OLIVE BROWN (2.5Y5/6) SAND, SINCLE GRAIN; MOIST, LOOSE. 36 - 55* YELLOWISH BROWN (10YR5/6) SAND, SINCLE GRAIN; MOIST, LOOSE. 55 - 90* LIGHT OLIVE BROWN (2.5Y5/4) SAND, FIRM FRIELCT STREAMS OF STRONG BROWN (7.5YR5/8) SINCLE GRAIN: MOIST, LOOSE. SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >90* OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A	SERIES: WINDSOR NOTE: ORSTEIN — DISCONTINUOUS ESTIMATED SEASONAL HIGH WATER TABLE: 48" OBSERVED WATER: NONE RESTRICTIVE LAYER: 24" (DISCONTINUOUS) SOIL HYDROLOGIC GROUP: A TEST PIT 21 OO — 20" DARK BROWN (LOYR 4/3) LOAMY SAND, WEAK FINE GRANULAR STRUCTURE; MOIST, FRABLE. 20 — 29" YELLOWISH BROWN (LOYR5/6) SAND: SINGLE GRAIN; MOIST, LOOSE. 29 — 90" LIGHT OLIVE BROWN (2.5Y5/4) SAND SINGLE GRAIN; MOIST, LOOSE. SERIES: WINDSOR ESTINATED SEASONAL HIGH WATER TABLE: >90" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A	OBSERVED WATER. NONE RESTRICTURE LAYER: 42° SOIL HYDROLOGIC GROUP: B TEST PIT 22 00 – 15" DARK BROWN (10YR4/3) AND LIGHT OLIVE BROWN (2 5Y5/4) LILUVAL SAND: FEW REDOX DEPLETIONS; SINCLE GRAIN: MOIST LOOSE. 15 – 18" BLACK (10YR2/L) MUCKY PEAT 18 – 25" BLACK (10YR2/L) SAND: COMMON BROWN (10YR4/3) STAINS: SINGLE GRAIN; WET NON- STICKY, NON-PLASTIC SERIES: NAUMBURG ESTIMATED SEASONAL HIGH WATER TABLE: 4" OBSERVED WATER: 18" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: D	SERIES: DEERFIELD SERIES SASONAL HIGH WATER TABLE: 30" OBSERVED WATER: NONE RESTRICTIVE LAYER: 38" SOIL HYDROLOGIC GROUP: C IEST PIT 23 DAR: BROWN (10'R4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; DRY, SOFT OB = 12" LIGHT QUIVE BROWN (2.5Y5/4) SAND, SINGLE GRAIN: MOIST, LOOSE 12 - 20" GRAYISH BROWN (2.5Y5/2) SAND: MANY MEDIUM AND COARSE MANY MEDIUM AND COARSE PROWN CONCENTRATIONS, FEW MEDIUM RED (2.5Y4/6) FE/AM CONCENTRATIONS, FEW MEDIUM RED (2.5Y4/6) FE/AM MOIST, LOOSE 20 - 24" GRAY (10'YB6/1) SAND: SINGLE GRAIN: WET, NON-STICKY, NON- PLASTIC. 24 - 48" LIGHT OLIVE BROWN (2.5Y5/4), GRAY (10'YB6/1), AND STRONG BROWN (7.5YR5/8) SAND, MOIST, VERY HARD SERIES: NAUMBURG ESTIMATED SEASONAL HIGH WATER TABLE: 12" OBSERVED WATER: 24" SOIL HYDROLOGIC GROUP: D	SERIES. NEWFIELDS ESTIMATED SEASONAL HIGH WATER TABLE: 32" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B TEST PIT 24 OO - YO4" DARK BROWN (IOYRA/3) SANDY LOAM, WEAK FINE GRANDLAR STRUCTURE; MOIST, PINABLE O4 - 36" YELLOWSH BROWN (IOYRA/3) SANDY LOAM, WEAK MEDIUM GRANULAR STRUCTURE; MOIST, FRABLE 36 - 42" LICHT SELOWSH BROWN (IOYRA/3) LOAMY FINE SAND; MASSIVE TINICTURE; MOIST, FRABLE O 42" SEDROCK SERIES: TURBRIDGE ESTIMATED SEASONAL HIGH WATER TABLE: NONE OBSERVED WATER: NONE RESTRICTURE LAYER: NONE BEDROCK AT 'Q2" SG\$" HYDROLOGIC GROUP: C	TEST PIT 25. DARK BROWN (10/P4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE D8 – 18" YELLOWSH BROWN (10/P5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 18 – 32" DARK YELLOWSH BROWN (10/P5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 32 – 50" DARK YELLOWSH BROWN (10/P5/6) AND STROND SROWN (7.5/P5.5/8) REDDX (CONCENTRATIONS: MANY YELLOWSH BROWN (10/P5/6) AND STROND BROWN (7.5/P5.5/8) REDDX CONCENTRATIONS: STROND MEDIUM BLOCKY STRUCTURE; MOIST, VERY FIRM. © 50" BEDROCK SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 32" OBSERVED WATER: NOWE RESTRICTUR LAYER: 32" BEDROCK AT 50" SOIL HYDROLOGIC GROUP: C	REVISIONS DATE: DESCRIPTION: 02-20-2018 REVISED PER TRG COMMENTS
JEST PIT 26 DARK BROWN (L OYR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE TO ARK YELLOWISH BROWN (LOYR4/6) LOAMY SAND: MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. THE STRUCTURE; MOST, VERY FIRM. THE STRUCTURE STRUCTURE STRUCTURE; MOST, VERY FIRM. THE STRUCTURE STRUCTURE STRUCTURE; MOST, VERY FIRM. THE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE. THE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE. THE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE. THE STRUCTURE STRUCTURE STRUCTURE. THE STRUCTURE STRUCTURE STRUCTURE. THE STRUC	TEST PIT 27 DAPK BROWN (10YR4/4) AADY LOAM, WEAK FIRE GRAND AR STRUCTURE; MOIST, FRISHLE 04 – 16* STRONG BROWN (7.5/R5/8) SANDY LOAM; MOGRATE MEDIUM GRANDLAR STRUCTURE; MOIST, FRISHLE 16 – 27* SELOMSH BROWN (10YR5/6) LOAMY SAND; MOGRATE MEDIUM GRANDLAR STRUCTURE; MOIST, FRISHLE 27 – 38** YELLOMSH BROWN (10YR5/6) LOAMY SAND; MANY MEDIUM TO COARS STRUCTURE; MOIST, FRISHLE 27 – 38** YELLOMSH BROWN (10YR5/6) LOAMY SAND; MANY MEDIUM TO COARS STRUCTURE; MOIST, FRISHLE EDD (2.5/R4/6) FE/MN GREY FIRM GR	TEST PIT 73—1 OD — 08" DARK BROWN (10YR3/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE OB — 16" YELLOWSH BROWN (10YS/6) LOAMY SAND, WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 16 — 44" LIGHT OLIVE BROWN (2.5YS/4) SAND, SINGLE GRAIN, MOIST, LOOSE. 44 — 66" LIGHT OLIVE BROWN (2.5YS/4) AND (2.5YS/3) SAND; FEW BROWN (7.5YS/8) SINGLE GRAIN; MOIST, LOOSE SERIES: WINDOR BROWN (2.5YS/4) SAND; FEW BROWN (7.5YS/8) SINGLE GRAIN; MOIST, LOOSE SERIES: WINDOR BROWN (2.5YS/8) SAND; FEW BROWN (7.5YS/8) SINGLE GRAIN; MOIST, LOOSE SERIES: WINDOR BROWN (2.5YS/8) SINGLE GRAIN; MOIST, LOOSE SOIL HYDROLOGIC GROUP: A	IESI_73=2 00 - 09" DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE, MOST, FRIABLE 09 - 14" YELLOWSH BROWN (10YR5/6) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 14 - 40" LIGHT OLUVE BROWN (2.5Y5/4) AND LIGHT YELLOWSH BROWN (2.5Y5/3) SAND, SINGLE GRAIN, MOIST, LOOSE. 40 - 66" LIGHT YELLOWSH BROWN (2.5Y6/3) SAND, SINGLE GRAIN, MOIST, LOOSE. SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >66" GRESTRICTIVE LAYTE NOWE SOIL HYDROLOGIC GROUP: A	IEST PIT 73-3 OO - 09" DARK BROWN (10YR3/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; MOST, FRABLE. O9 - 15" YELLOWSH BROWN (10YR5/6) LOAMY SAND, WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE. 15 - 21" LIGHT OLIVE BROWN (2.5Y5/4) SAND, FEW MEDIUM PROMINENT RELOT WOTTLES IN STRONG BROWN (7.5YR5/8) SINGLE GRAIN, MOST, LOOSE. 21 - 66" LIGHT OLIVE BROWN (2.5Y5/4) SAND, SINGLE GRAIN, MOST, LOOSE. SEPILES: WINDSOR SERVED WATER NOWE STIMLATED SASSONAL MICH WATER TABLE: >66" OSSERVED WATER. NOWE RESTINCTURE LAYER: NOWE SOIL HYDROLOGIC GROUP: A	DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE, MOIST, FRIABLE 10 – 18" STRONG BROWN (7.5YR5/8) SAND, SINGLE GRAIN, MOIST, LOOSE. 18 – 36" YELLOWSH, BROWN (10YR5/8) SAND, SINGLE GRAIN, MOIST, LOOSE. 36 – 60" LIGHT OLIVE BROWN (2.5YS/4) STONS, SINGLE GRAIN, MOIST, LOOSE. 36 – 60" LIGHT OLIVE BROWN (2.5YS/4) STONY SAND, MANY STRONG BROWN (7.5YR5/8) REDOX OLOYBE/PTONS SOME BLACK (10YR2/1) SAND AT 36"; MOIST WEAKLY CEMENTED, EXTREMELY FIRM. SERIES. DEERFELD ESTIMATED SEASONAL HIGH WATER TABLE: 36" OBSERVED WATER: 36 RESTRICTURE LAYER: 36 SOIL HYDROLOGIC GROUP: C	10 - 10" DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE, MOIST, FRABLE 10 - 20" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND, WEAK MEDIUM GRANULAR STRUCTURE; MOIST, FRABLE 20 - 36" LIGHT OLIVE BROWN (2.5Y5/4) SAND, SINGLE GRAIN; MOIST, LOOSE. 36 - 60" GRAYISH BROWN (2.5Y5/2) AND LIGHT OLIVE BROWN (2.5Y5/4) SAND, SINGLE GRAIN; MOIST, LOOSE. 36 - 60" GRAYISH BROWN (2.5Y5/2) AND LIGHT OLIVE BROWN (2.5Y5/4) SAND, SIRNOR BROWN (CONCENTRADOR AND GRAY (CONCENTRADOR AND GR	Disposal A. Mariano Mariano Mariano Mariano Mariano	Designer Subsurface Disposal Systems Page 19 Subsurface Disposal Systems Page 19 Subsurface Disposal Systems Raber Systems	SHEET NO. SITE SPECIFIC SOILS, TEST PITS HAYES HILL OLD DOVER ROAD ROCHESTER, NEW HAMPSHIRE NOVEMBER 7, 2017 SOB NO. 1633

TEST PIT 73-8	TEST PIT 73-9	TEST PIT 73-10	TEST PIT 73-11	TEST PIT 73-12	TEST PIT 73-13	IEST PIT 73-14	TEST_PIT_73-15	TEST PIT 73-16	
00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOST, FRIBABE 10 - 24" STRONG BROWN (7.5YR5/6) SAND: SINGLE GRAIN; MOST, LOOSE. 24 - 26" BLACK (10YR2/1) SAND; STRONG MEDIUM BLOCKY STRUCTURE; MOST, EXTREMELY FIRM. 26 - 31" LIGHT OLUE BROWN (2.5Y5/4) VERY STROYS BROWN (7.5YR5/8) REDOX CONCENITATIONS AND MANY GRAY (10YR6/1) REDOX DEPLETIONS; SINGLE GRAIN; WET, NON-STROY, NON-FASTIC GRAIN; WET, NON-STROY, NON-FASTIC DESTINATIONS AND MANY GRAY (10YR6/1) REDOX DESTINATIONS AND MANY GRAY (10YR6/1) REDOX DESTINATIONS SINGLE GRAIN; WET, NON-STROY, NON-FASTIC GRAYS (10YR6/1) REDOX DESTINATIONS AND MANY GRAY (10YR6/1) REDOX DESTINATIONS AND MANY GRAY (10YR6/1) REDOX DESTINATIONS SINGLE GRAIN; WET, NON-STROYS MOSTIVE GRAYS (10YR6/1) REDOX DESTINATIONS AND MANY GRAY (10YR6/1	00 - 08" DARK BROWN (10Y84/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE, MOST, FRIABLE 08 - 18" REDDISH BROWN (5YR4/4) SANDY LOAW, MODERATE MEDIUM GRANULAR STRUCTURE, MOST, FRIABLE. 18 - 25" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. 25 - 35" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE, 100 BROWN (7.5Y85/8) REDGAY (10Y86/1) REDGAY GRANULAR STRUCTURE; MOST, FRIABLE. 35 - 60" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANN; GRANULAR STRUCTURE; MOST, FRIABLE. 35 - 60" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANN; GRANULAR STRUCTURE; MOST, FRIABLE. STRUCTURE MOST, FRIABLE. STRUCTURE; MOST, FRIABLE. STRUCTURE; MOST, FRIABLE. SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 25" OBSERVE WATER: 30" RESTRICTIVE LAYER: 35" SOIL HYDROLOGIC GROUP: C	00 - 10" DARK BROWN (10YE4/3) SANDY LOAM; WEAK FIRE GRANULAR STRUCTURE; MOIST, FRIABLE 10 - 18" STRONG BROWN (7.5YR5/8) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE. 18 - 32" OLIVE BROWN (2.5Y4/4) LOAMY SAND; COMMON STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE. 32 - 60" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANN STRONG BROWN (2.5Y5/4) LOAMY SAND; MANN STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY GROXY CONCENTRATIONS; MANY GROXY STRUCTURE; MOIST, FIRM SERIES, SCITUATE; MOIST, FIRM SERIES, SCITUATE; 24" SERIES SOIL HYDROLOGIC GROUP: C	00 – 06" DARK BROWN (10/R3/3) STONY SANDY LOAM, WEAK FINE GRANULAS STRUCTURE; MOIST, FRIABLE 06 – 25" YELLOWSH RED (\$1874/6) STONY SANDY LOAM, MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE 25 – 31" LIGHT CLIVE BROWN (2.575/4) STONY LOAMY SAND, MANY STRONG BROWN (7.5782/8) REDDY CONCENTRATIONS, MANY STRONG BROWN (7.5782/8) STONY LOAMY SAND, MANY STRONG BROWN (7.5782/8) STONY LOAMY SAND, MANY STRONG BROWN (7.5782/8) COMMON GRAY (10/R6/1) REDDY COMMON GRAY (10/R6/1) REDDY COMMON GRAY (10/R6/1) REDDY COMMON GRAY (10/R6/1) REDDY DEPT. STONY LOAMY STRUCTURE; MOIST, FIRM. SERIES: SOTUATE ESTIMATED SEASONAL HIGH WATER TABLE: 25" GBSERVE WATER: 28" RESTRICTIVE LAYER: 31" SOIL HYDROLOGIC GROUP: C	00 – 13" DARK BROWN (10YR4/3) STONY SANDY LOAM: WEAK FINE GRANULAS STRUCTURE; MOST, FRIABLE 13 – 18" STRONG BROWN (7.5YR5/8) STRONG BROWN (7.5YR5/8) STONY LOAMY SAND: MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE 18 – 22" YELLOWISH BROWN (10YR5/6) LOAMY SAND: MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. 22 – 31" LIGHT DILVE BROWN (2.5Y5/4) LOAMY SAND: COMMON STRONG BROWN (7.5Y85/8) REDOX CONCENTRATIONS, COMMON GRAY (10YR6/1) REDOX DEPLETIONS: MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. 31 – 60" STRONG BROWN (7.5Y85/8) GRAVELLY SAND; MANY RED (2.5YR4/6) REDOX CONCENTRATIONS, MANY MEDIUM CONCENTRATIONS, SINGLE GRAIN: WET, NON-STICKY, NON-PLASTIC. SERIES: DEERBING STRONG, SINGLE GRAIN: WET, NON-STICKY, NON-PLASTIC. SERIES: DEERBING STRONG, SINGLE GRAIN: WET, NON-STICKY, NON-PLASTIC. SERIES: DEERBING LIFER SOT RESTRICTURE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 – 09" DARK BROWN (10YR4/3) LOAMY SAND, MEAK FINE GRANLLAR STRUCTURE; MOST, FRIABLE VELLOWSHER BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 13 – 24" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE, SAND; COMMON (2.5Y5/4) SAND; COMMON (2.5Y5/8) SAND; COMMON (2.5Y5/8) SAND; COMMON (2.5Y5/8) SAND; COMMON STRONO BROWN (7.5Y85/8) REDON GRAY (10YR6/1) REDON GRAY (10YR6/1) REDON GRAY (10YR6/1) REDON WET, NON-STICKY, NON-PLASTIC. SERIES: DEERFIELD STRUCTURE STRUCTURE SERIES: DEERFIELD SEASONAL HIGH WATER TABLE: 24" OBSERVED WATER: 30" ONE RESTRICTIVE LACES.	00 – 08" DARK BROWN (10/R3/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE, MOIST, FRIABLE 108 – 27" LIGHT DLIVE BROWN (2.5°5/4) SAND; SINGLE GRAIN; MOIST, LOOSE 27 – 60" LIGHT DLIVE BROWN (2.5°5/4) SAND; MANY STRONG BROWN (7.5°R5/8) REDOX CONCENTRATIONS, SINGLE GRAIN; MOIST, LOOSE TO 35" THEN WET, NON-STICKY, NON-PLASTIC. SERIES: DEERFIELD SERIES SERIES WATER 30 CHESTINGLE GRAIN; MOIST, LOOSE TO 35" THEN WET, NON-STICKY, OBSERVED WATER 30" CHESTINGLE GRAIN; MOIST, LOOSE TO 35" THEN STICKY OBSERVED WATER 30" CHESTINGLE SASONAL HIGH WATER TABLE: 24" OBSERVED WATER 30" CHESTINGLE SOIL HYDROLOGIC GROUP: C	DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANDLAR STRUCTURE; MOST, FRIABLE OB - 18" YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 18 - 48" YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, CONCENTRATIONS, GRAY (10YR6/1 REDOX DEPLETIONS, BOTH INCERSING WITH DEPTH; SINGLE GRAIN; MOST, LOOSE TO 20 NOT STRUCTURE STRUCTUR	00 – 09" DARK BROWN (10YR3/3) LOAMY SAND, WEAK FINE GRANULAR STRUCTURE, MOIST, FRIABLE 19 TYPELOWISH BROWN (10YR5/6) LOAMY SAND, WEAK FINE GRANULAR STRUCTURE; MOIST, FRABEL 18 – 24" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 24 – 28" LIGHT OLIVE BROWN (2.5YS/4) SAND; SINGLE GRAIN; MOIST, LOOSE. 28 – 60" LIGHT OLIVE BROWN (2.5YS/4) SAND; SINGLE GRAIN; MOIST, LOOSE CONCENTRATIONS, GRAY CO	ENGINEERING CORPORATION TES CENTRAL AVENLE TOWNERS NEW HAMPSHE G3820 TELEPHONE 603 742 6107 FAX 603 742 6300
TEST PIT 73–12 00 – 09" DARK BROWN (10YR3/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 09 – 24" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN MOIST, LOOSE. 24 – 46" LIGHT OLIVE BROWN (2.5Y5/3) SAND; SINGLE GRAIN; MOIST, LOOSE. 46 – 72" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FINE STRONG BROWN (7.5Y85/8) REDOC CONCENTRATIONS; SINGLE GRAIN; MOIST, LOOSE. SERIES: WINDS. SERIES: WINDS.	TEST_PIT_73=17D. DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 99 - 21" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE. 21 - 31" LIGHT OLIVE BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE. 31 - 39" LIGHT OLIVE BROWN (2.575/4) SAND; FEW GRAYSH BROWN (2.575/2) REDOX DEPLETIONS; SINGLE GRAIN; MOIST, LOOSE. 39 - 60" OLIVE BROWN (2.574/4) SAND; GRAY (10YR6/1) REDOX DEPLETIONS; GRAY (10YR6/1) REDOX DEPLETIONS; DINCE SAND; GRAY (10YR6/1) REDOX DEPLETIONS (10YR6/	TEST PIT CUL—DE—SAC (EAST) 00 — 08" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 08 — 22" YELLOWSH RED (5YR4/6) STONY LOAMY SAND: MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. 22 — 48" LIGHT OLIVE BROWN (2.5Y5/4) STONY LOAMY SAND: MANY SITRON BROWN (7.5YR5/8) AND YELLOWSH BROWN (17.5YR5/8) AND YELLOWSH BROWN (17.5YR5/8) AND YELLOWSH BROWN (17.5YR5/8) AND YELLOWSH BROWN (17.5YR5/8) AND YELLOWSH BROWN (10.7SYR5/8) AND YELLOWSH BROWN (17.5YR5/8) AND YELLOWSH	100 - 07" DARK BROWN (10YR3/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 107 - 19" YELLOWSH RED (5YR4/6) LOAMY SAND: MOGRATI MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE 19 - 30" YELLOWSH RED (5YR4/6) YEN STONY SAND: MADY STRON'S GROWN (7.5YR5/6) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLETIONS; SINGLE GRANI, MOIST, LOOSE. 30 - 48" LICHT GLUE BROWN (2.5YS/4) YERY STONY LOAWY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND MANY GRAY (10YR6/1) REDOX CHOCKENTRATIONS AND MANY GRAY (10YR6/1) REDOX CHOCKENTRATIONS AND MANY GRAY (10YR6/1) STANS; MODERATE WEIT, MORAULAR STRUCTURE; WEIT, MON-STICKY. 448" REFUSAL - BOULDERS SERIES: DEERFIELD ESTINATED SEASONAL HICH WATER TABLE: 19" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	TEST PIT 101. OD - 07" DARK YELLOWSH BROWN (10YR4/4) LOAMY SAND, WEAK FINE GRANLLAR STRUCTURE; WOIST, FRIABE. OT - 18" DARK YELLOWSH BROWN (10YR5/4) LOAMY SAND; WEAK FINE GRANLLAR STRUCTURE; WOIST, FRIABE. 18 - 96" YELLOWSH BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >96" OBSERVED WATER. NONE SOIL HYDROLOGIC GROUP; A	TEST PIT 102 00 - 0.3" VERY DARK GRAYISH BROWN (2.5Y3/2) SANDY LOAM: WEAK PINE GRANULAR STRUCTURE; MOST, FRIABEL. 03 - 10" YELLOWSH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABEL. 10 - 15" YELLOWSH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE. 10 - 15" YELLOWSH BROWN (10YR5/6) LOAMY SAND; MANY RELICT MOTILES IN STRONG BROWN (7.5YR5/6, GRAY (10YR6/1) AND RED (2.5YR4/6); MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. 15 - 24" MIXED QUEUE BROWN (2.5Y4/4 AND YELLOWSH BROWN (10YR5/6) FINE SANDY LOAM; MANY GRAY (10YR5/6) FINE SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE. 24 - 36" BLACK (10YR5/1) SAND; SNOLE GRAN; WET, NON-STICKY, NON-PLASTIC. SERIES, RECENT ILLIVUM OVER NAUMBURG ESTINATED SCASONAL HIGH WATER TABLE: 15" OBSERVED WATER. 36 RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	TEST PIT 103 OD - 07" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE. O7 - 14" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE. 14 - 26" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRANI, MOIST, LOOSE. 26 - 59" YELLOWISH BROWN (10YR5/4) SAND STRATIFIED WITH THIN HORZONTAL LAYERS OF STRONG BROWN (7.5YR5/3) SAND; SINGLE GRAIN; MOIST, LOOSE. 59 - 96" YELLOWISH BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE. SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >96" OBSERVED WATER: NONE SOIL HYDNOLOGIC GROUP: A	TEST_PIT_104 BOULDERS ON SURFACE 00 - 10" DARK BROWN (107R4/3) STONY SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 10 - 25" STRONG BROWN (7.5YR4/6) STONY SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE 25 - 36" YELLOWISH BROWN (10YR5/6) SANDY LOAM; FEW STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE 36 - 66" YELLOWISH BROWN (10YR5/6) REDOX CONCENTRATIONS; COMMON GRAY (10YR6/1) REDOX DECKY STRUCTURE; MOIST, FIRM. SERIES, SCITUATE STRUCTURE; MOIST, FIRM. SERIES, SCITUATE STRUCTURE; MOIST, FIRM. ESTRICTIVE LAYER: 38" SOIL HYDROLOGIC GROUP: C	TEST_PIT_105 OD - 09" DARK BROWN (107R4/3) FINE SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRABELE OP - 18" STRONG BROWN (7.5YR5/6) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRABELE 18 - 33" YELLOWISH BROWN (10785/6) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRABELE 33 - 60" LIGHT OLIVE BROWN (2.4Y5/4) SANDY LOAM; MODERATE MEDIUM (7.5YR6/8) REDOX CONCENTRATIONS AND GRAY (10786/1) REDOX DEPLETIONS INCREASING WITH DEPTH; STRONG MEDIUM BLOWN BUST, FIRM. SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 33" OBSERVED WATER; NOWE RESIMEDIE LOAVE; SOWE	REVISIONS DATE: DESCRIPTION: 01-09-2018 REVISED WITH INFILTRATION TEST PI
TEST PIT 108 00 - 12" DARK BROWN (10YR3/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE, MOIST, FRIABLE 12 - 27" DARK YELLOWSH BROWN (10YR3/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE, MOIST, FRIABLE 27 - 54" OLIVE BROWN (2.5'Y4/3) LOAMY SAND; BUDIDER AND STONY AT 36"; MANY STRONG BROWN (7.5'Y8/5/8) REDOX CONCENTRATIONS AND GRAY (10Y8/4) REDOX DEPLETIONS); STRONG MEDIUM BLOCKY STRUCTURE, MOIST, FRIM. SERIES: SCITUATE ESTIMATED SCASDINAL HIGH WATER TABLE: 27" SOIL HYDROLOGIC GROUP: C	TEST PIT 107 DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE TO - 22" YELLOWSH BROWN (10YR5/8) SANDY LOAM; MODERATE MEDINING RANULAR STRUCTURE; MOIST, FRIABLE DE - 30" LICHT CLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDINING RANULAR STRUCTURE; MOIST, FRIABLE LICHT CLIVE BROWN (2.4Y5/4) LOAMY SAND; MODERATE MEDINING ROWN (1.0YR6/1) REDOX DEPLETIONS; STRONG BROWN (1.0YR6/1) SANDY DARK BROWN (1.0YR6/2) SANDY DARK BROWN	TEST PIT 108 OO - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 10 - 31" YELLOWSH BROWN (7.5YR5/8) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE 31 - 37" LIGHT OLIVE BROWN (2.5YS/4) LOAMY SAND; MODERATE MEDIUM FRIABLE, STRUCTURE; MOIST, FRIABLE, STRONG BROWN (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE MEDIUM BLOCKY STRONG MEDIUM BLOCKY STRONG MEDIUM BLOCKY STRUCTURE MEDIUM BLOCKY STRONG MEDIUM BLOCKY STRONG MEDIUM BLOCKY STRUCTURE MEDIUM BLOCKY STRONG MEDIUM BLOCKY STRUCTURE MEDIUM BLOCKY	DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 10 – 36" YELLOWSH BROWN (2.5WS,9) SANDY LOAM, MODERATE MEDIUM GRANULAR STRUCTURE; MOST, FRIABLE 36 – 60" LIGHT OLIVE BROWN (2.4YS/4) LOAM'S SAND; STRONG BROWN (2.4YS/4) LOAM'S SAND; STRONG BROWN (10YR6/1) REDOX DEPLETIONS; STRONG BROWN (10YR6/1) REDOX DEPLETIONS; STRONG BROWN STRONG BEDIUM BLOCKY STRUCTURE; MOIST, FIRM. SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 36" OBSERVED WATER: NONE RESTRICTIVE LAYER: 36" SOIL HYDROLOGIC GROUP; C	IEST PIT 110. 10 — 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 10 — 32" YELLOWSH BROWN (7.5YR5/8) SANDY LOAM; MODERATE MEDIUM FRIABLE STRUCTURE; MOST, FRIABLE STRUCTURE; MOST, FRIABLE STRUCTURE; MOST, CONCENTRY MOST, CONCENTRY MOST, CONCENTRY MOST, CONCENTRY MOST, FIRM. SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 32" OBSERVED WATER: NONE RESTRICTURE LAYER: 32" SOIL HYDROLOGIC GROUP: C	DARK BROWN (10YR4/3) SANDY LOAM, WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 04 - 20" YELLOWSH BROWN (10YR5/6) LOAM; SAND; WEAK FINE FRIABLE. 20 - 30" LIGHT OLIVE BROWN (10YR5/6) SAND; SINGLE GRAN; MOIST, LOOSE. 30 - 66" LIGHT OLIVE BROWN (2.5Y5/4) BROWN (2.5Y5/4) BROWN (2.5Y5/4) BROWN (2.5Y5/4) BROWN (2.5Y5/4) BROWN (2.5Y5/2) REDOX GPHETIONS; SINGLE GRAN; MOIST, LOOSE. SERIES: DEERFIELD ESTIMATED SKASONAL HIGH WATER TABLE: 30" GRESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B	DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 12 – 17" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR FINE GRANULAR STRUCTURE; MOST, FRIABLE. 17 – 34" LIGHT OLIVE BROWN (10YR5/4) SAND; SINGLE GRAIN; MOST, LOOSE. 34 –60" LIGHT OLIVE BROWN (2.5Y5/4) SAND; EVEW GRAYISH BROWN (2.5Y5/2) REDOX DEPLETIONS; SINGLE GRAIN; MOST, LOOSE. SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 34" OBSERVED WATER: NONE RESTRICTIVE LAYER NONE SOIL HYDROLIGIC GROUP: B	TEST PIT 73–16D OO - 07" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE O7 - 15" YELLOWSH BROWN (10YR5/6) LOAMY SAND; WEAK FINE FRIABLE. STRUCTURE; MOST, FRIABLE. STRUCTURE; MOST, FRIABLE. STRUCTURE; MOST, FRIABLE. STRUCTURE; MOST, WETLESS; WET, NON-STICKY, NON-PLASTIC. 930" REPUSAL MAY BE BEDROCK OR BOULDER - COULD NOT DETERMINE WITH SMALL EXCAVATOR. SERIES: DEERFIELD ESTIMATEO SEASONAL HIGH WATER TABLE: 15" OBSERVED WATER: 15" RESTRICTIVE LAYER: NONE REPUSALS 30° SOIL HYDROLOGIC GROUP: B	TEST_PIT_AT_ROAD_STA_0+50 OO = 10" DARK BROWN (10YR3/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOST, FRIBBLE 10 = 30" LIGHT OLIVE BROWN (10YR4/3) LOAMS SAND; WEAK FINE GROUNDS STRUCTURE; MOST, LOOSE. 30 = 84" YELLOWSH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 84 = 108" LIGHT OLIVE BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 84 = 108" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FOW REDOX DEPLETIONS AND CONCENTRATIONS; SINGLE GRAIN; WET, NON—STICKY, MON—PLASTIC. SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: 84" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP; A	SPECIFIC SOILS, TEST PITS 4 YES HILL OLD DOVER ROAD CHESTER, NEW HAMPSHIRE BER 7, 2017 JOB NO. 1833
LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 09 - 20" STRONG BROWN (7.5YR5/8) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 20 - 49" YELLOWSH BROWN (10YR5/6)	LOAM, WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 06 - 24" YELLOWSH BROWN (10/R5/6) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE 24 - 70" LIGHT OLIVE BROWN (2.575/6) SAND; SINGLE GRAIN; MOIST, LOOSE. 70 - 98" GRAY (10/R6/1) SAND; SINGLE GRAIN; MOIST, LOOSE, AT 84" - SINGLE GRAIN WET, NON-STICKY, NON-PLASTIC. SERIES: WINDSOR ESTINIATED SACSONAL HIGH WATER TABLE: 70" OBSERVED WATER: 84" RESTINICTURE LAYER: NONE	LOAM. WEAK FINE GRANULAR STRUCTURE; MOST, FRIABLE 11 – 56" YELLOWISH BROWN (7.5YR5/6) STONY SAND; SNOLE GRAIN; MOST, LOOSE 56 – 71" YELLOWISH BROWN (107R5/6) STONY SAND; COMMON REDOX CONCENTRATIONS IN 7.5YR5/8; FEW MEDIUM BLACK (10787/1) MANGANESE CONCERIONS; SINGLE GRAIN; MOST, LOOSE 71 – 96" LIGHT OLIVE BROWN (2.4Y5/4) STONY LOAMY SAND; COMMON REDOX CONCENTRATIONS IN 7.5YR6/26 AND IOTRE/TAULAR STRUCTURE; MOIST, FRIABLE SERIES: WINDSOR ESTIMATED SEASONAL MICH WATER TABLE: 56" MINTER SERIES WINDSOR ESTIMATED SEASONAL MICH WATER TABLE: 56" RESTIMICTURE LAYER: NONE SOIL HYDROLOGIC GROUP: A				Sub- Sulva Su Sulva Sulva Sulva Sulva Sulva Sulva Sulva Su Sulva Sulva Sulva S	Designer Systems Systems No. 941	Designer of Subsurface Disposal Systems Subsurface Disposal Systems Subsurface Disposal Systems Subsurface Disposal Subsurface	SHEET NO. SITE ROC ROC NOVEMB





		DRAINAGE	STRUCTURE	TABLE	
STRUCTURE	RIM ELEV.	INVERT IN	INVERT OUT	SUMP	NOTES
CB-/	205.95		201.94	197.94	
CB-Z	207.16		203.00	199.00	
CB-3	208.17		204.10	200.10	DOUBLE GRATE WI 6'0 C
CB-4	208.17		204.10	200.10	DOUBLE GRATE WI 60 C
CB-5	210.74		206.75	202.75	
CB-6	210.84		206.85	202.85	
CB-7	219.19		215.15	211.15	
CB-8	219.65		215.65	211.65	
CB-9	197.69		195.04	191.04	
CB-IO	197.95		195.15	191.15	
DMH-I	207.17	201.70 (P-2) 201.70 (P-1) 201.70 (P-5)	201.60		
DMH-2	208.75	203.00 (P-6)	202.90		
DMH-3	208.30	203.90 (P-7) 203.90 (P-8)	203.80		
DMH-4	206.04	199.50 (IP-1)	199.40		
DMH-5	210.84	206.65 (P-10) 206.65 (P-9)	206.55		
DMH-6	219.65	215.05 (P-13) 215.05 (P-12)	214.95		
DMH-7	197.93	195.00 (P-15) 195.00 (P-16)	194.90		
DMH-8	206.61	199.60 (P-3)	199.50		
F.E.S. #101		204.31 (P-II)			
F.E.S. #102		199.09 (P-4)			
F.E.S. #103		214.75 (P-14)			

	DRA	IN PIPE T	ABLE				
PIPE	START	IVV.	END	WV.	SIZE	L.F.	54
CROSS CULVERT		204.75		203.72	24"	52'	1.9
EX. CULVERT	DMH-7	194.90		194.50	12"	42'	0.5
IP-1	DMH-8	199.50	DMH-4	199.50	18"	200'	0.0
P-1	CB-/	201.94	DMH-I	201.70	12"	24'	1.0
P-2	CB-2	203.00	DMH-I	201.70	12"	20'	6.4
P-3	DMH-1	201.60	DMH-8	199.60	18"	17'	12.0
P-4	DMH-4	199.40	FES IOZ	199.09	18"	20'	1.5
P-5	DMH-2	202.90	DMH-I	201.70	18"	236'	0.5
P-6	DMH-3	203.80	DMH-2	203.00	15"	76'	1.0
P-7	CB-4	204.10	DMH-3	203.90	15"	14'	1.4
P-8	DMH-3	203.90	CB-3	204.10	12"	6'	3./
P-9	CB-5	206.75	DMH-5	206.65	12"	10'	1.0
P-10	CB-6	206.85	DMH-5	206.65	12"	20'	1.0
P-11	DMH-5	206.55	FES 101	204.3/	12"	153'	1.4
P-12	DMH-6	215.05	CB-7	215.15	12"	10'	0.5
P-13	CB-8	215.65	DMH-6	215.05	12"	20'	2.5
P-14	DMH-6	214.95	FES 103	214.75	12"	16'	1.2.
P-15	DMH-7	195.00	CB-9	195.04	12"	7'	0.5
P-16	DMH-7	195.00	CB-IO	195.15	12"	30'	0.5
REAM-CROSSING-CULVERT		209.05		204.90	36"	52'	8.0

LEGEND WETLAND UEET = PROPOSED UNDERGROUND ELECTRIC & TELEPHONE - WETLAND BOUNDAR X= PROPOSED ELECTRICAL TRANSFORMER 0 IRON PIPE 0= PROPOSED ELECTRICAL JUNCTION BOX -0 UTILITY POLE PROPOSED STREET LIGHT 本 TEST PIT _____ = PROPOSED DRAIN LINE EXISTING STREET LIGHT A 10 PROPOSED CATCH BASIN EXISTING STONE WALL . -----EXISTING 2 FOOT CONTOUR ===UD=== PROPOSED UNDERDRAIN LINE -----EXISTING 10 FT CONTOUR \wedge PROPOSED FLARED END SECTION ---- EXISTING GAS LINE --- EXISTING WATER LINE OR SERVICE EXISTING WATER SHUTOFF \bowtie EXISTING WATER GATE VALVE PROPOSED GUARDRAIL PROPOSED PROPERTY LINE O O O PROPOSED SILT FENCE OR SILT SOCK - PROPOSED EDGE OF PAVEMENT B PROPOSED CONSTRUCTION FENCE PROPOSED SILT SOCK WITH ORANGE CONSTRUCTION FENCE OR ORANGE SILT FENCE 200 - PROPOSED CONTOUR 黑 PROPOSED HYDRANT PROPOSED STREET SIGN PROPOSED END CAP WITH THRUST BLOCK _ PROPOSED STOP SIGN PROPOSED WATER GATE VALVE • PROPOSED STREET TREE PROPOSED WATER LINE OR SERVICE PROPOSED VINYL STOCKADE FENCE PROPOSED TREELINE



- INSTALL FES 101 @ ELEV = 204.31. SEE DETAIL 10, SHEET C-9.
- INSTALL RIP-RAP PER DETAIL 9, SHEET C-9 Wo=3', We=10', La=10', D=6", D50=2.5".
- 3. INSTALL BIORETENTION BASIN AREA #1.
- CONSTRUCT 10' WIDE SPILLWAY IN BERM @ ELEVATION 203.50'.
- INSTALL RIP-RAP PER DETAIL 9, SHEET C-9 Wo=10', We=10', La=10', D=6", D50=3".
- 6. CONSTRUCT 300'± LONG SWALE BOTTOM = 4', 2 TO 1 SIDE SLOPES, MIN. DEPTH = 1.5' SLOPE = 0.01 FT/FT, INVERT \odot START = 242.0', TO INVERT @ END = 239.0'.
- 7. INSTALL CROSS CULVERT. 24"Ø HDPE, L = 52' @STA. 6+30. S=0.02 FT/FT INVERT IN EL = 204.75 INVERT OUT EL = 203.70.
- INSTALL FES 102 ⊕ ELEV = 199.09. SEE DETAIL 10, SHEET C-9.
- INSTALL RIP-RAP PER DETAIL 9 SHEET C-9 Wo=3', We=10', Lo=10', D=6", D50=2.5".
- 10. CONSTRUCT BERM (TOP OF BERM 202.25) WITH 6' WIDE OUTLET WEIR. OUTLET EL = 201.75.
- 11. INSTALL STREAM CROSSING CULVERT 36" HDPF L=52', SLOPE=0.1 FT/FT INVERT IN EL = 209.56 INVERT OUT EL = 204.90.
- 12. CONSTRUCT PLUNGE POOL PER DETAIL 5, SHEET C-8.
- INSTALL RIP-RAP ON 1 TO 1 SLOPE AS SHOWN, SEE DETAIL 9, SHEET C-9 D=6", D50=2".
- INSTALL PRE-CAST HEADWALL PER DETAIL 1, SHEET C-8.
- 15. INSTALL READY ROCK RETAINING WALL/HEADWALL
- 16. INSTALL FES 103 ⊕ ELEV = 214.75. SEE DETAIL 10, SHEET C-9.
- INSTALL RIP-RAP PER DETAIL 9 SHEET C-9 Wo=3', We=10', La=10', D=6", D50=2.5".
- 18. INSTALL BIORETENTION BASIN AREA #2.
- CONSTRUCT 10' WIDE SPILLWAY IN BERM
 ELEVATION 215.50'.
- 20. AS ROOF RUNOFF MITIGATION, ALL NEW HOUSES AND ACCESSORY STRUCTURES SHALL BE CONSTRUCTED WITH 2 FOOT MDE, 1 FOOT DEEP STONE DRIP EDGES AT ALL EAVES TO COLLECT & INFILTRATE ROOF RUNOFF, (SEE DETAIL 11. & INFLITANTE NOUR KONDUF. (SEE DETAIL II), SHEET C-9). THE DRIP EDGES ARE TO BE INSPECTED AT THE TIME OF INSTALLATION, AND WITHIN THE FIRST SIX MONTHS AFTER CONSTRUCTION; THEREAFTER THE DRIP EDGES SHALL BE INSPECTED 2 TIMES PER YEAR TO ENSURE THAT THEY ARE FREE OF DEBRIS AND SEDIMENT. REMOVE AND DISPOSE OF SEDIMENT AND DEBRIS AS NEEDED.
- 21. WHERE HIGH WATER TABLES ARE ENCOUNTERED DURING HOUSE CONSTRUCTION, HOUSES WILL BE CONSTRUCTED WITH DAMP PROOF FOUNDATIONS AND FOUNDATION DRAINS TO DRAIN THE GROUNDWATER.

(U-1)UTILITY NOTES:

- 1. EXISTING POLE, TO REMAIN AS RISER POLE.
- INSTALL 530 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH EVERSOURCE STANDARDS & DETAIL
 SHEET C-7 FROM RISER POLE TO TRANSFORMER 1 (TR-1).
- INSTALL TRANSFORMER AND CONCRETE PAD (SUITABLE FOR A 100 KW TRANSFORMER), IN ACCORDANCE WITH PSNH STANDARDS.
- INSTALL 220 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-7 FROM TRANSFORMER NUMBER 1 (TR-1) TO TRANSFORMER NUMBER 2 (TR-2).
- INSTALL 205 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-7 FROM TRANSFORMER NUMBER 2 (TR-2) TO TRANSFORMER NUMBER 3 (TR-3).
- 6. INSTALL 310 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-7 FROM TRANSFORMER NUMBER 3 (TR-3) TO TRANSFORMER NUMBER 4 (TR-4).
- 7. EXISTING POLE WITH PSNH COBRA STYLE LIGHT.
- 8. INSTALL CONDUIT FOR UNDERGROUND UTILITIES, CABLE INSTALLED BY OTHERS. COORDINATE LOCATION & SIZE WITH INDIVIDUAL UTILITY.
- INSTALL CONCRETE POLE BASE AND LIGHTS WHERE SHOWN (2), LIGHTS SHALL BE MOUNTED 15' ABOVE FINISH GRADE. SUN VALLEY LIGHTING 250 WATT SIGMA 1 LED. SEE DETAIL 3 & 7, SHEET C-8. LIGHTS TO BE BACK SHELDED TO DIRECT LIGHT FORWARD. ALTERNATIVE POLE INSTALLATION: DIRECT BURIAL ROUND FIBERGLASS POLE, EVERSOURCE ENERGY DETAIL SPC P-631.
- 10. INSTALL JUNCTION BOX PER EVERSOURCE REQUIREMENTS.

(C-1)CONSTRUCTION NOTES:

ALL CONSTRUCTION SHALL CONFORM WITH THE 2010 STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDDT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"; HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS".

- THE CONTRACTOR IS REQUIRED UNDER NEW HAMPSHIRE LAW TO CONTACT "DIG SAFE" AT 1-888-344-7233, 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE "DIG SAFE" LOCATIONS THROUGH OUT THE DURATION OF THE PROJECT.
- AS-BUILT PLANS OF THE SITE SHALL BE SUBMITTED ON A REPRODUCIBLE MYLAR MEDIUM AND IN A DIGITAL DXF FORMAT TO THE CITY OF ROCHESTER ENGINEER'S OFFICE UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED CORRECT BY A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
- A PRE-CONSTRUCTION MEETING WITH THE CITY, THE ENGINEER, THE APPLICANT, AND THE APPLICANTS SITE CONTRACTOR SHALL OCCUR PRIOR TO ANY SITE WORK COMMENCING.
- ALL DISTURBED AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION BY THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PRACTICES WHICH ARE GIVEN IN DETAIL 12, SHEET C-8. INSTALL TEMPORARY SILT FENCE PRIOR TO ABY EARTHWORK ACTIVITIES PER DETAIL 6, SHEET C-8.
- 6. INSTALL STABILIZED CONSTRUCTION ENTRANCE AT PROJECT ENTRANCE, PER DETAIL 10, SHEET C-8.
- ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS, THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ASSESS REQUIREMENTS.
- 9. PRIOR TO THE START OF CONSTRUCTION, AN ORANGE CONSTRUCTION FENCE WITH SILT SOCK, SEE DETAIL 6, SHEET C-9, OR ORANGE SILT FENCE, SEE DETAIL 6, SHEET C-8, MUST BE PLACED AT WETLANDS UNDER 1/2 ACRE IN SIZE AND THE WETLAND BUFFER WITHIN 50 FEET OF CONSTRUCTION. THESE LOCATIONS WILL BE MARKED IN THE FIELD BY A LICENSED LAND SUPEYOR & SHALL BE MONITORED AS PART OF THE SWPPP INSPECTION. THIS FENCING SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL FULL STABILIZATION IS ESTABLISHED.
- INSTALL STOP SIGN IN ACCORDANCE WITH THE 2010 STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
- INSTALL 18" STOP BAR IN ACCORDANCE WITH THE 2010 STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
- 12. INSTALL STREET SIGN "HAYES HILL ROAD" IN ACCORDANCE WITH THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS.
- 13. INSTALL SILT FENCE. SEE DETAIL 6, SHEET C-8, OR SILT SOCK SEE DETAIL 6, SHEET C-9,
- 14. INSTALL ORANGE CONSTRUCTION FENCE.
- 15. INSTALL 50' OF GUARD RAIL FROM STA 5+90 TO STA 6+40. SEE DETAIL 3, SHEET C-7.
- 16. INSTALL 60' OF GUARD RAIL FROM STA 9+10 TO STA 9+70. SEE DETAIL 3, SHEET C-7.
- 17. INSTALL 100' OF GUARD RAIL FROM STA 13+00 TO STA 14+00. SEE DETAIL 3, SHEET C-7.
- 18. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS
- INSTALL STREET ACCEPTANCE SIGNS WITH THE FOLLOWING LANGUAGE." POSTED. THIS SUBDIVISION IS UNDER CONSTRUCTION. THESE STREETS HAVE NOT YET BEEN ACCEPTED BY THE CITY OF ROCHESTER AND ARE NOT ELIGIBLE FOR CITY SERVICES. TRAVEL AT YOUR OWN RISK, CPER ORDER OF PLANNING BOARD)"
- 20. EXISTING DRIVEWAY TO BE RELOCATED TO HAYES HILL ROAD STA. 1+42. REMOVE EXISTING PAVEMENT, REGRADE TO MATCH EXISTING GRADE INCLUDING THE CONSTRUCTION OF A STOKE RETAINING WALL TO FILL THE GAP IN THE STONE WALL AND MATCH THE EXISTING WALL. LOAM AND SEED THE DISTURBED AREA.
- 21. INSTALL 104' OF 6' HIGH WHITE VINYL STOCKADE FENCE. (SEE DETAIL 5, SHEET C-9)

WATER NOTES:

- PRIOR TO WATER SYSTEM CONSTRUCTION A PERMIT SHALL BE OBTAINED FROM THE CITY OF ROCHESTER DPW.
- ALL WATER SYSTEM TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF ROCHESTER "STANDARDS OF INFRASTRUCTURE DESIGN".
- WATERLINE AND APPENDITURES, INSTALLATION, AND MATERIALS SHALL CONFORM WITH THE CITY OF ROCHESTER, N.H. AND AMERICAN WATER WORKS STANDARDS. ALL VALVES SHALL REQUIRE RESTRAINED MECHANICAL JOINTS USING EITHER MEGA-LUG, GRIP RINGS, OR OTHER METHODS OF RESTRAIN ACCEPTABLE TO THE CITY OF ROCHESTER WATER DEPARTMENT, IN ADDITION TO USE OF CONCRETE THRUST BLOCKS.
- PRESSURE AND LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS OF AAWA. CHLORINATING AND FLUSHING SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS OF AAWA, STATE AND LOCAL REQULATIONS.
- 5. INSTALL BACKFLOW PREVENTER FOR ALL WATER SERVICES.
- 6. DOMESTIC WATER AND LANDSCAPING WATER MAY BE METERED SEPARATELY.
- 7. INSTALL CONCRETE THRUST BLOCKS WHERE SHOWN. SEE DETAIL 6, SHEET C-7.
- 8. INSTALL 8" TAPPING SLEEVE WITH 8" GATE VALVE AND THRUST BLOCK. ONLY APPROVED CONTRACTORS (BY THE CITY OF ROCHESTER DPW) ARE ALLOWED TO CONDUCT A TAP ON THE EXISTING WATER MAIN. THE CITY OF ROCHESTER DPW MUST BE PRESENT FOR THE TAP.
- 9. INSTALL 1,255' 8" CONCRETE LINED DUCTILE IRON CLASS 52 (C.L.D.I.) WATER MAIN WITH POLYWRAP. MINIMUM DEPTH OF COVER OVER PIPE = 5.5'. FROM STATION -0+30 TO 12+25.
- 10. INSTALL 1" TYPE "K" COPPER OR APPROVED EQUAL WATER SERVICE. MINIMUM DEPTH OF COVER OVER PIPE = 5.5' (17).
- INSTALL HYDRANT AND GATE VALVE (AMERICAN DARLING OR KENNEDY) PER CITY REQUIREMENTS, SEE DETAIL 5, SHEET C-7 (3).
- 12. INSTALL 8"Ø END CAP WITH THRUST BLOCK.
- 13. EXISTING 3"0 WATER LINE. TO BE TAKEN OUT OF SERVICE BY THE CITY OF ROCHESTER DPW. COORDINATE WITH THE DPW TO ENSURE THERE IS NO LOSS OF SERVICE FOR THE ABUTTERS. CONTRACTOR MAY NEED TO PROVIDE TEMPORARY SERVICE DURING CONSTRUCTION.
- 14. INSTALL 8" GATE VALVE (2).



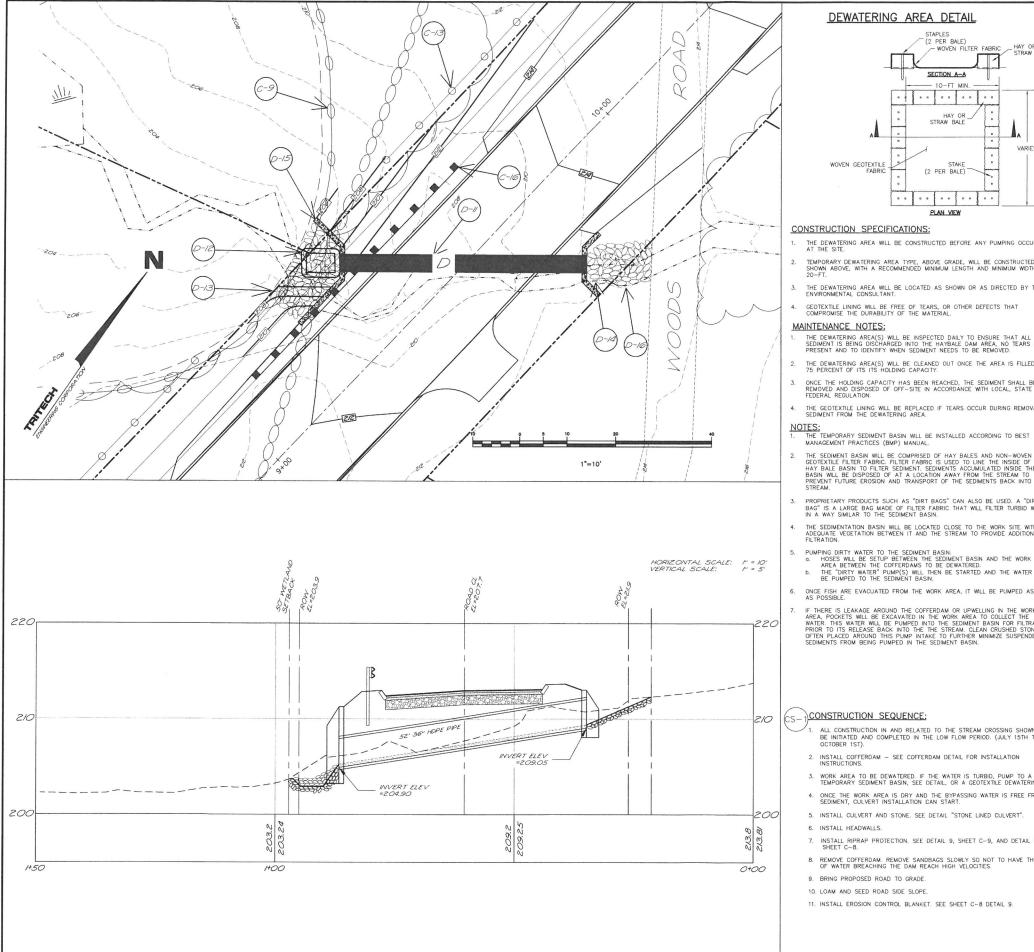
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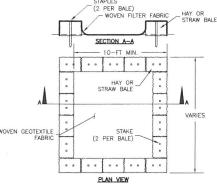
ROAD HAMP JOB N

755 CENTRAL AVENU DOVER, NEW HAMPSH TELEPHONE 603 742 FAX 603 742 3830





DEWATERING AREA DETAIL



CONSTRUCTION SPECIFICATIONS:

- THE DEWATERING AREA WILL BE CONSTRUCTED BEFORE ANY PUMPING OCCURS AT THE SITE.
- TEMPORARY DEWATERING AREA TYPE, ABOVE GRADE, WILL BE CONSTRUCTED AS SHOWN ABOVE, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF $20\mbox{-}\mathrm{FI}$.
- THE DEWATERING AREA WILL BE LOCATED AS SHOWN OR AS DIRECTED BY THE ENVIRONMENTAL CONSULTANT.
- THE DEWATERING AREA(S) WILL BE INSPECTED DAILY TO ENSURE THAT ALL SEDIMENT IS BEING DISCHARGED INTO THE HAYBALE DAM AREA. NO TEARS ARE PRESENT A BOD TO IDENTIFY WHEN SEDIMENT NEEDS TO BE REMOVED.
- THE DEWATERING AREA(S) WILL BE CLEANED OUT ONCE THE AREA IS FILLED TO 75 PERCENT OF ITS ITS HOLDING CAPACITY.
- ONCE THE HOLDING CAPACITY HAS BEEN REACHED. THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATION.
- THE GEOTEXTILE LINING WILL BE REPLACED IF TEARS OCCUR DURING REMOVAL OF SEDIMENT FROM THE DEWATERING AREA.

MANAGEMENT PRACTICES (BMP) MANUAL.

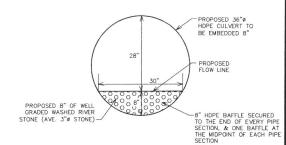
- THE SEDIMENT BASIN WILL BE COMPRISED OF HAY BALES AND NON-WOVEN GEOTEXTILE FILTER FABRIC. FILTER FABRIC IS USED TO LINE THE INSIDE OF THE HAY BALE BASIN TO FILTER SEDIMENTS. SEDIMENTS ACCUMULATED INSIDE THE BASIN WILL BE DISPOSED OF AT A LOCATION AWAY FROM THE STREAM TO PREVENT FUTURE EROSION AND TRANSPORT OF THE SEDIMENTS BACK INTO THE
- PROPRIETARY PRODUCTS SUCH AS "DIRT BAGS" CAN ALSO BE USED. A "DIRT BAG" IS A LARGE BAG MADE OF FILTER FABRIC THAT WILL FILTER TURBID WATER IN A WAY SIMILAR TO THE SEDIMENT BASIN.
- THE SEDIMENTATION BASIN WILL BE LOCATED CLOSE TO THE WORK SITE WITH ADEQUATE VEGETATION BETWEEN IT AND THE STREAM TO PROVIDE ADDITIONAL FILTRATION.
- PUMPING DIRTY WATER TO THE SEDIMENT BASIN:

 0. HOSES WILL BE SETUP BETWEEN THE SEDIMENT BASIN AND THE WORK
 AREA BETWEEN THE COFFERDAMS TO BE DEWATERED.

 b. THE "DIRTY WATER" PUMP(S) WILL THEN BE STARTED AND THE WATER WILL
 BE PUMPED TO THE SEDIMENT BASIN.
- ONCE FISH ARE EVACUATED FROM THE WORK AREA, IT WILL BE PUMPED AS DRY AS POSSIBLE.
- IF THERE IS LEAKAGE AROUND THE COFFERDAM OR UPWELLING IN THE WORK AREA, POCKETS WILL BE EXCAVATED IN THE WORK AREA TO COLLECT THE WATER. THIS WATER WILL BE PUMPED INTO THE SEDIMENT BASIN FOR FILTRATION, PRIOR TO ITS RELEASE BACK INTO THE THE STREAM. CLEAN CRUSHED STONE IS OFTEN PLACED AROUND THIS PUMP INTAKE TO FURTHER MINIMIZE SUSPENDED SEDIMENTS FROM BEING PUMPED IN THE SEDIMENT BASIN.

- ALL CONSTRUCTION IN AND RELATED TO THE STREAM CROSSING SHOWN SHALL BE INITIATED AND COMPLETED IN THE LOW FLOW PERIOD. (JULY 15TH TO
- INSTALL COFFERDAM SEE COFFERDAM DETAIL FOR INSTALLATION INSTRUCTIONS.
- 3. WORK AREA TO BE DEWATERED. IF THE WATER IS TURBID, PUMP TO A TEMPORARY SEDIMENT BASIN, SEE DETAIL, OR A GEOTEXTILE DEWATERING BAG.
- ONCE THE WORK AREA IS DRY AND THE BYPASSING WATER IS FREE FROM SEDIMENT, CULVERT INSTALLATION CAN START.
- 5. INSTALL CULVERT AND STONE. SEE DETAIL "STONE LINED CULVERT".
- INSTALL RIPRAP PROTECTION. SEE DETAIL 9, SHEET C-9, AND DETAIL 5, SHEET C-8.

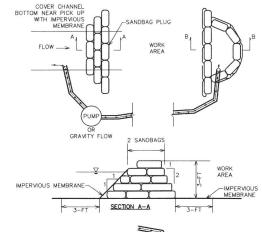
- 10. LOAM AND SEED ROAD SIDE SLOPE.
- 11. INSTALL EROSION CONTROL BLANKET. SEE SHEET C-8 DETAIL 9.

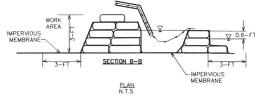


RIVER STONE GRADATION

<u>d50</u> =	= 3"	1500			
% OF WEIGHT SMALLER THAN THE GIVEN SIZE	R SIZE OF STONE E (INCHES)				
100	3	TO	4		
85	3	ТО	4		
50	2	TO	3		
15	1	TO	1		

STONE LINED CULVERT DETAIL





1. THE UPSTREAM COFFERDAM IS INSTALLED FIRST. THICK MIL POLY SHEETING IS LAID ALONG THE STREAMBED BEFORE THE SANDBAGS ARE PLACED.

2. THE EXCESS PLASTIC IS THEN FOLDED OVER THE SANDBAGS IN THE UPSTREAM DIRECTION AND ANOTHER LAYER OF SANDBAGS IS PLACED ON THE PLASTIC TO HELP SEAL. THE DAM FROM INFILTRATION. THE PLASTIC IS THEN EXTENDED ALONG THE STREAM BOTTOM AS FAR UPSTREAM AS PRACTICABLE TO INCREASE THE FLOW LENGTH OF THE SUBSURFACE FLOW. THIS HELPS PREVENT FLOW FROM GOING BENEATH THE SANDBAG COFFERDAM.

3. WHEN INDUSTRIAL SANDBAGS ARE USED, ADDITIONAL SMALL SANDBAGS MAY BE PLACED BETWEEN THE LARGE SANDBAGS TO HELP SEAL THE WORK AREA.

A. ONCE THE UPSTREAM COFFERDAM IS SECURED, THE CONTRACTOR WILL BEGIN DIVERTING UPSTREAM FLOWS AROUND THE COFFERDAM AREA USING A BYPASS PUMP. THIS WATER WILL BE DISCHARGED DISCLITY INTO THE STREAM CANNEL BELOW THE DOWNSTREAM COFFERDAM. AT THE OUTLET OF THE PUMPS, HIGH VELOCITY (55 FPS) WATER IS BEING DISCHARGED BACK INTO THE STREAM. THIS WATER HAS THE POTENTIAL TO ERROP THE STREAM SUBSTRATE AND CAUSE A TURBIDITY RELEASE. THE CONTRACTOR WILL IMPLEMENT SCOUR PREVENTION MEASURES AT THE DISCHARGE SITE TO REDUCE EINERY AT THE POINT OF DISCHARGE AND PREVENT ELEVATED TURBIDITY LEVELS.

5. THE DOWNSTREAM COFFERDAM WILL THEN BE INSTALLED IN THE SAME MANNER AS THE UPSTREAM COFFERDAM. THE DOWNSTREAM COFFERDAM ACTS AS A SAFEGUARD AGAINST A FAILURE OF THE UPSTREAM COFFERDAM AND TO CONTROL DOWNSTREAM BACKWAITER SITUATIONS.

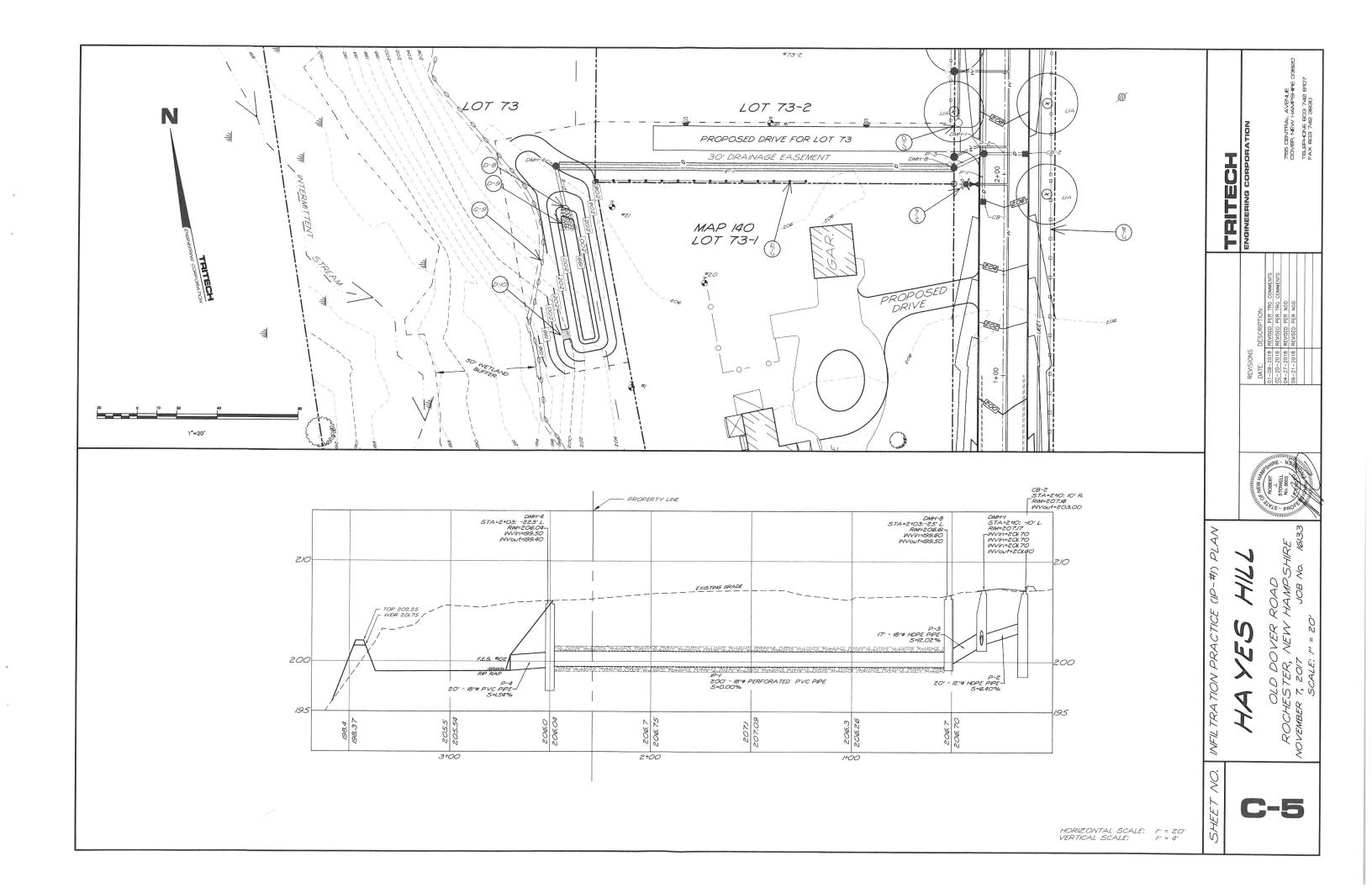
6. ONCE BOTH COFFERDAMS HAVE BEEN INSTALLED, THE CONTRACTOR WILL BEGIN TO DEWATER THE AREA BETWEEN THE COFFERDAMS IF THE WATER IS TURBID FROM DISTURBANCE CAUSED BY THE INSTALLATION OF THE COFFERDAMS, THE WATER WILL BE PUMPED TO A TEMPORARY SEDIMENT BASIN TO ALLOW FILTRATION TO OCCUR. IF THE WATER INSDE OF THE COFFERDAM MYSIALLY APPEARS TO BE AS TURBID AS THE WATER FLOWING NITO THE LIPSTERAM COFFERDAM IT WILL BE PUMPED TO DOWNSTREAM OF THE DOWNSTREAM COFFERDAM.

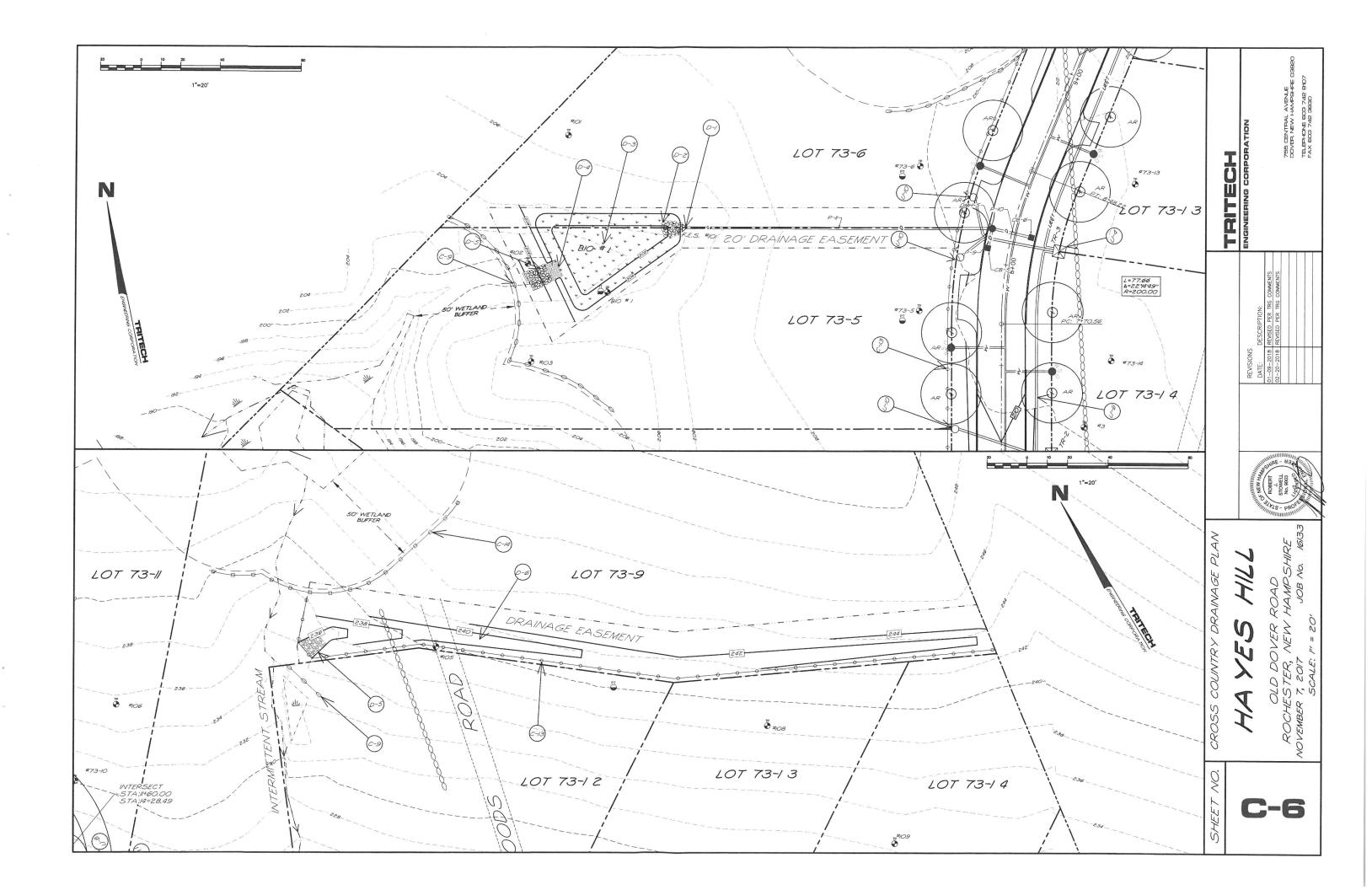
COFFERDAM STREAM DIVERSION DETAIL NOT TO SCALE

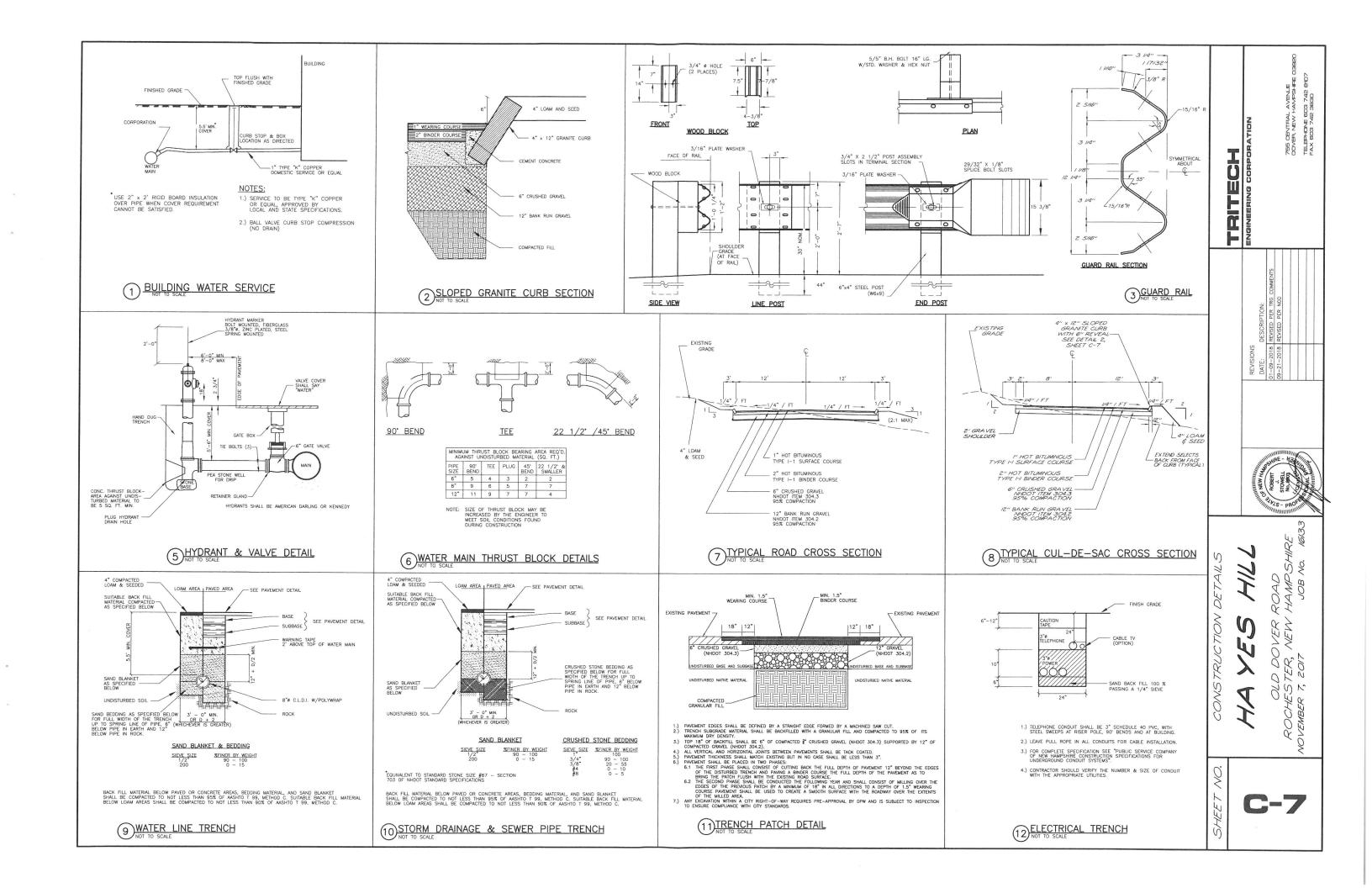
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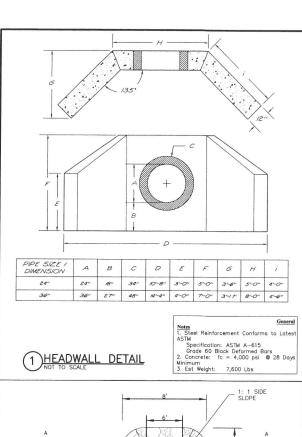
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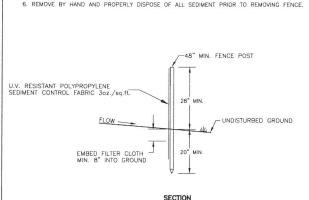
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PERSPECTIVE VIEW

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR BEST MANAGEMENT PRACTICE FOR SILT FENCES, OF THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, DATED AUGUST 1992.

2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.

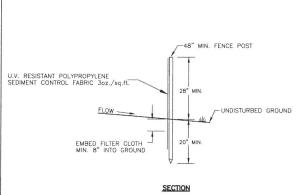
WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.

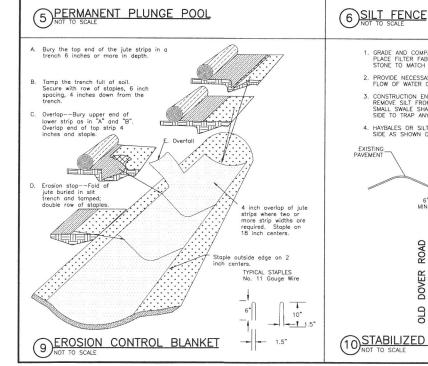
FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 20 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ.IN.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

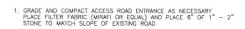
U.V. RESISTANT POLYPROPYLENE SEDIMENT CONTROL FABRIC 3oz./sq.ft.

48" MIN. FENCE POSTS, DRIVEN 20" MIN. INTO GROUND

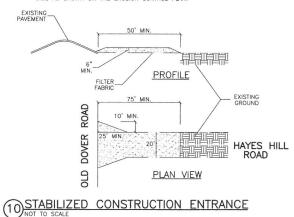




NONWOVEN GEOTEXTILE



- 2. PROVIDE NECESSARY SWALES OR DIVERSIONS TO MINIMIZE DIRECT FLOW OF WATER ONTO STONE AREA.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AS NECESSARY TO REMOVE SILT FROM TIRES PRIOR TO ENTERING PUBLIC ROADS, A SMALL SWALLE SHALL BE CONSTRUCTED ON THE DOWN GRADIENT SIDE TO TRAP ANY SILT WASHED FROM THE STONE.
- 4. HAYBALES OR SILT FENCE SHALL BE PLACED ON THE DOWN GRADIENT SIDE AS SHOWN ON THE EROSION CONTROL PLAN.



11 Hi Vis Hi Flow Silt Sack

4 EA. ANCHOR BOLTS W/LEVELING NUTS (SIZE AS REQ'D FOR WIND LOAD CONDITION) FINISH GRADE $3/4\ensuremath{^{\circ}}$ DIA. ELECT. CONDUIT FROM BLDG. STUB- UP 12 ABOVE TOP OF FTG. 4 #7 RODS VERTICAL W #3 TIES AT 12" O.C. 8' x 5/8" DIA. GROUND ROD

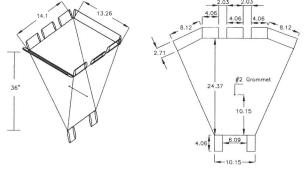
18" DIA. REINFORCED CONCRETE BASE

3 SITE LIGHTING BASE



SUN VALLEY LED

7 STREET LIGHT DETAIL



A) FABRIC USED SHOULD NOT BE LAMINATED

B) SILT SACK TO HAVE TWO #2 GROWNETS, ONE ON EACH OF THE TWO SIDES, 15"
FROM THE BOTTOM OF THE SILT SACK

C) TIE 1/4" WIDE YELLOW ROPE 19" LONG THROUGH THE GROMMETS ON TWO SIDES OF THE SILT SACK

CRITICAL AREAS
Anywhere on the site that existing vegetation is to be removed will require immediate erosion control treatment. Special care should be taken where runoff enters wetlands. All storm water practices areas shall be stabilized prior to directing storm water to them; specifically all bioretention basins and all infiltration practices.

EROSION AND SEDIMENT CONTROL PRACTICES

Trosion and sediment control practices will include the use of rip—rap, and silt fence check dams. All erosion and sediment control practices will be constructed and maintained according to the minimum standards and specifications contained in the "New Hampshire Starmwater Manual, Volume 2".

- Erosion and Sediment Control Measures
 The erosion control procedures shall conform to Section 645 of the "Standard Specifications for Road and Bridge Construction" of the NH DDT, and the "New Hampshire Stormwater Manual."
 During Construction and thereafter, erosion control measures are to be implemented as noted. The smallest practical area of land should be exposed at any one time during development. The amount of exposed areas which are temporarily stabilized without permanent stabilization shall be limited to 5 acres.
- or exposed areas which are temporarily stabilized without permanent stabilization shall be limited to 5 acres.

 During grading operations, install stane check dams at 50 foot intervals in drainage swales and at drain inlets where shown. Barriers are to be be maintained and cleaned until disturbed areas are stabilized. Any disturbed areas which are to be left temporarily, and which will be regraded later during construction shall be machine hay mulched and seeded with rye grass to prevent erosion.

 Silt fences and other erosion control measures shall be inspected weekly and after every 0.25° rainfall event during the life of the project. All damaged silt fences shall be repaired. Sediment deposits shall periodically be removed.

 Avoid the use of future open spaces (loam and seed areas) wherever possible during the construction. Construction traffic shall use the roadbeds of future roads and parking areas.

 Topsoil required for the establishment of vegetation shall be stock piled in amounts necessary to complete finished grading of all exposed areas.

 Areas to be filled shall be cleared, grabbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. Sturnps shall be disposed by grinding or fill in an approved facility.

 All fills shall be placed and compacted to reduce erosion, slippage settlement, subsidence or other related problems.

- All fills shall be placed and compacted to reduce erosion, slippage settlement, subsidence or other related problems.

 All fill shall be placed and compacted in layers not to exceed 8 inches in thickness. Frozen material or soft, mucky or highly compressible material shall not be incorporated into fills. Fill material shall not be placed on a frozen foundation subgrade. Disturbed areas shall be seeded immediately following finished grading. Limit of exposed area that is temporarily stabilized without permanent stabilization is 5 acres or less. All areas not stabilized by Nov. 1st must be protected by Erosion Control Blankets or equivalent and mulched/seeded with winter rye or oats.

 All disturbed areas must be seed and mulched within 3 days of final grading, permanently stabilized within 15 days of final grading or temporarily stabilized within 45 days of initial disturbance.

 All all disturbed and swelles are to be stabilized prior to directing runoff to these features.

 All act and fill slopes shall be seeded immediately.

 An area shall be considered stable if one of the following has occurred:

 a.) Base course gravels are installed in areas to be paved

 b.) A minimum of 85% vegetacted growth has been established

 c.) A minimum of 85% vegetacted growth has been established

 d.) Erosion control blankets have been properly installed.

B. Vegetative Practice
All ground areas opened up for construction will be regraded, loamed, seeded and mulched in the shortest
practical time. All Temporary and Permanent Seeding must be applied prior to October 1st. Employ
temporary erosion and sedimentation control devices as detailed in this plan as necessary until adequate

A. Temporary Seeding & Hay Mulching

1. At no time shall any disturbed area remain unstabilized for longer than 30 days. All areas where construction is not completed within 30 days of the initial disturbance shall receive temporary seeding

- construction is not completed within 30 days of the initial disturbance shall receive temporary seeding measures.

 2. Fertilizer shall be spread on the top layer of loam and worked into the surface. Fertilizer application rate shall be 300 pounds per acre of 10-10-10 fertilizer.

 3. Seed shall be Winter Rye, 112 LBS, per acre.

 4. Remove stones and trash that will interfere with seeding the area. Where feasible, till the soil to a depth of about 3 inches to prepare a seedbed and mix fertilizer into the soil. The seedbed should be left in a firm and smooth condition. The last tillage operation should be performed across the slope whenever practical.
- whenever practical.

 If seeding between May 15th and August 15th, hay mulch shall be applied immediately after seeding a rate of 1.5 to 2 tons per acre and shall be held in place using appropriate techniques from the Erosion and Sediment Control Handbook 1
- 6. The surface shall be watered and kept moist with a fine spray as required without washing away the soil, until the grass is well established. Any areas which are not satisfactorily covered with grass shall be reseeded, and all noxious weeds are removed.

- B. Permanent Seeding & Hay Mulching

 All disturbed areas shall be loamed (4") and limed. Lime shall be thoroughly incorporated into the loam layer at a rate of 2 tons per acre.

 Fertilizer shall be spread on the top layer of loam and worked into then surface. Fertilizer application rate shall be 500 pounds per acre of 10-20-20 fertilizer.

 Seed shall be 48 lbs. per acre, SCS mixture "c" (20 lbs tall fescue, 20 lbs. creeping red fescue and 8 lbs. birds foot trefoil = 48 lbs total.) The soil shall be lightly raked immediately before seeding. One half the seed shall be sown in one direction and the other half at right angles to the original direction. It shall be lightly raked in to the soil to a depth not over 1/4 inch and rolled with hand roller weighing not over 100 points per linear foot to width.

 Hay mulch shall be applied immediately ofter seeding at a rate of 1.5 to 2 tons per acre and shall be held in place using appropriate techniques from the Erosian and Sediment Control Handbook. The surface shall be watered and kept moist with a fine spray as required, without washing away the soil, until the grass is well established. Any areas which are not satisfactorily covered with grass shall be reseaded, and all noxious weeds removed.

CONSTRUCTION SEQUENCE

- Do not begin construction until all local, state and federal permits have been applied for and received.

 Install silt fences and hay bale barriers necessary to control erosion and prevent sediment contamination of wetlands prior to any earth moving activities.

 Cut and remove trees, shrubs, saplings, brush, vines and other debris and rubbish as required for drainage construction.

 Care shall be taken to preserve the infiltration capacity of the infiltrating soil. See the New Hampshire Stormwater Manual for additional information.

 Construct stormwater Bioretention areas #1 & #2 and Infiltration Practice #1. Do not direct runoff to these practices until the practice and contributing areas are fully stabilized.

 Cut and remove trees, shrubs, soplings, brush, vines and other debris and rubbish as required for remaining site.

- Cut and remove trees, snruws, supringer, whence, including site.
 Construct roadway and utilities.
 Loam and seed disturbed areas in accordance with vegetative practice and general construction notes. Cut and fill slopes shall be seeded immediately after their construction.
 All areas receiving runoff, including but not limited to the stormwater infiltration and bioretention areas, shall be stabilized prior to directing runoff to them.
 All areas that are finish graded must be stabilized within 72 hours of disturbance.
 Maintain disturbed areas as necessary.

- MAINICINATURE
 During the period of construction and/or until long term vegetation is established:

 1. Seeded areas will be fertilized and reseeded as necessary to insure vegetative establishment.

 2. The side slopes will be checked after each significant rainfall.

 3. The side slopes will be checked there each significant rainfall.

 3. The side slopes will be checked weekly and repaired when necessary until adequate vegetation is catalished.
- established.

 The silt fence barriers will be checked regularly. Necessary repairs will be made to correct undermining or deterioration of the structures.

WINTER CONSTRUCTION NOTES

- All proposed vegetated areas which do not exhibit a minimum of 85% vegetation growth by October 15th, or which are disturbed after October 15th, shall be stabilized by seeding and installing erasion control blankets on slopes greater than 3:1, and seeding and placing 3 to 4 tons of multiple per acre, secured with anchored netting, elsewhere. The installation of erasion control blankets or mulch and netting shall not occur over accumulated snow or on frozen ground and shall be completed in advance of thaw or spring melts.
- or traw or spring mets.
 All ditches or swoles which do not exhibit a minimum of 85% vegetation growth by October 15th, or which are disturbed after October 15th, shall be stabilized temporarily with stone or erosion control blankets appropriate for the design flow conditions.
- After November 15th, incomplete road or parking surfaces, where work has stopped for the winter season, shall be protected with a minimum of 3 inches of crushed gravel per NHDOT item 304.3.

(12) EROSION AND SEDIMENT CONTROL NOTES

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C-8

