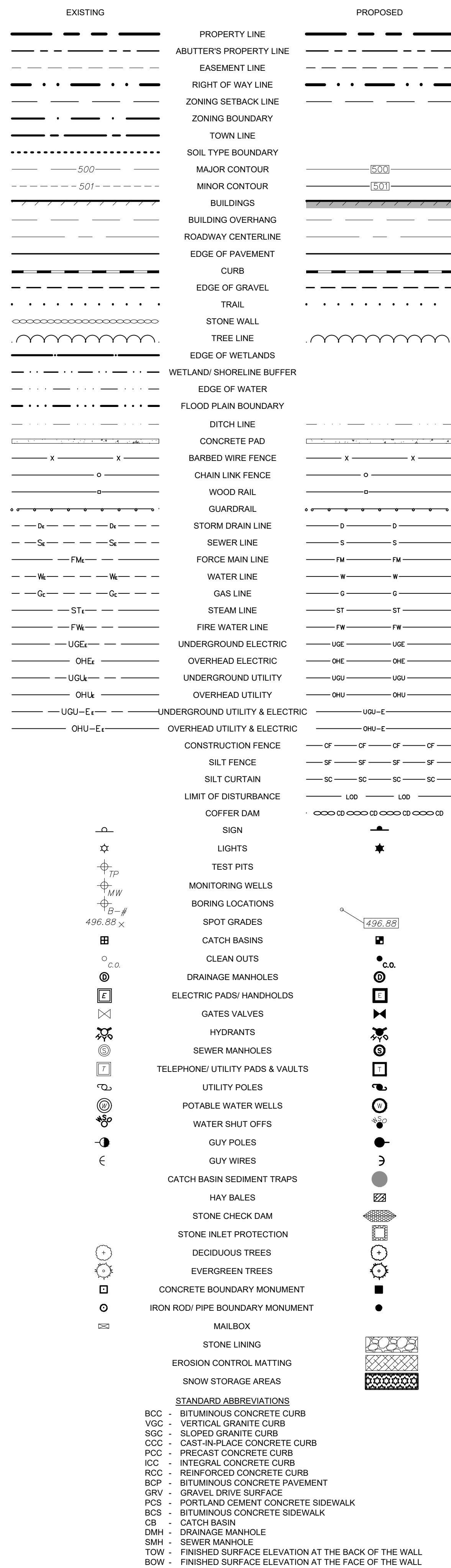


LEGEND



PROJECT NOTES

- 1 GENERAL:**
1. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER, AND IN ACCORDANCE WITH STATE CODE (BC 2015 WITH LATEST SUPPLEMENTS), AND LOCAL CODES AND ORDINANCES.
 2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT DIG-SAFE (1-888-DIG-SAFE) AT LEAST 48 HOURS AND LESS THAN 30 DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD.
 3. THE LIMITS OF SITE WATER AND SEWER WORK SHALL TERMINATE 2'-0" INSIDE THE BUILDING. THE SITE CONTRACTOR SHALL PROVIDE PIPING. GENERAL CONTRACTOR SHALL PROVIDE SLEEVES AS NECESSARY.
 4. GAS AND ELECTRIC LINES SHALL BE EXCAVATED AND BACKFILLED BY THE SITE CONTRACTOR. PIPING SHALL BE PROVIDED AND INSTALLED BY THE APPROPRIATE SUBCONTRACTOR.
 5. USE THESE CIVIL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, LANDSCAPING & MECHANICAL DRAWINGS. SHOULD A CONFLICT DEVELOP, NOTIFY THE ENGINEER BEFORE PROCEEDING.
 6. ALL DIMENSIONS AND ELEVATIONS SHOWN MUST BE VERIFIED BY THE CONTRACTOR DURING CONSTRUCTION BY THE AID OF DRAWINGS, FIELD CHECKS, AND SUBCONTRACTORS SHOP DRAWINGS.
 7. CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ALL DAMAGE.
 8. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF WALLS AND/OR SHORING OF EXCAVATIONS DURING CONSTRUCTION.
 9. THE CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS AND SUBMITTALS BEFORE SUBMISSION TO THE ENGINEER. THIS, PROVIDING ANY INFORMATION REQUIRED OF THE FABRICATOR SUCH AS FIELD DIMENSIONS, ELEVATIONS, ETC. WITHOUT THE APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS WILL BE REJECTED UNTIL SUCH INFORMATION IS FURNISHED BY THE CONTRACTOR.
 10. BACKFILL INSIDE OF FOUNDATION WALLS, UNDER CONCRETE SURFACES, AND UNDER PAVED SURFACES WITH IMPORTED GRAVEL FOR SUBBASE, OR SELECT ON-SITE MATERIAL, THAT WILL MEET STRUCTURAL, BACKFILL SIEVE ANALYSIS AND COMPACTION CRITERIA, AS DETERMINED BY THE TESTING LABORATORY. IN 6" LIFTS TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, ASTM D1557.
 11. GENERAL BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, ASTM D1557.
 12. ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, TO BE TOPSOILED, SEEDED, AND MULCHED.
- 2 CONCRETE:**
1. ALL CONCRETE AND REINFORCING WORK SHALL BE IN STRICT ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)". EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED WITH AIR CONTENT OF 6% - 8%. REINFORCED EXTERIOR SLAB CONCRETE SHALL HAVE A CORROSION INHIBITIVE ADMIXTURE. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. SUBMIT CONCRETE MIX DESIGN FOLLOWING PROCEDURES OUTLINED IN THE FLOW CHART IN CHAPTERS 5 OF ACI 301 FOR REVIEW OF ENGINEER. CONTRACTOR SHALL TAKE 4 TEST CYLINDERS OF CONCRETE FOR EACH 50 CUBIC YARDS OF CONCRETE OR FOR EACH DAYS POUR IF LESS THAN 50 C.Y. TESTING WILL BE AT OWNERS EXPENSE.
 2. MAXIMUM W/C RATIO FOR 4000 PSI CONCRETE: 0.44
 3. ALL CONCRETE SHALL BE PROTECTED FROM FREEZING. CONTRACTOR SHALL FOLLOW THE "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING (ACI 306, LATEST EDITION).
 4. ALL CONCRETE SHALL BE PLACED IN THE DRY. PUMP WATER FROM EXCAVATIONS AS NECESSARY.
 5. USE A PLASTICIZER ADDITIVE FOR SLAB ON GRADE CONCRETE. PROVIDE THE STANDARD MIX, EXCEPT THE SLUMP BEFORE ADDING THE MID-RANGE PLASTICIZER SHALL BE 2" -OR- 1". SLUMP SHALL NOT EXCEED 6". DO NOT EXCEED SPECIFIED WATER CEMENT RATIOS.
 6. CONCRETE SHALL BE SO PROPORTIONED SO AS TO HAVE A MAXIMUM SLUMP OF 4". EXCEPT CONCRETE SPECIFIED TO HAVE A PLASTICIZER SHALL HAVE A SLUMP OF 2" -OR- 1".
 7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE SETTING SCREEDS AND FORMS. FORM RELEASE OIL SHALL BE AN APPROVED NON-TOXIC LIQUID.
 8. SLABS SHALL BE WET CURED USING BURLAP COVER TO KEEP ENTIRE SURFACE CONTINUOUSLY MOIST FOR A MINIMUM OF SEVEN DAYS.
 9. DURING PLACEMENT OF CONCRETE, USE TREMIE OR OTHER MEANS TO LIMIT FREE-FALL OF CONCRETE TO 5 FEET.
 10. CONCRETE SHALL BE CONSOLIDATED BY VIBRATION, SPADING, OR RODDING SO THE CONCRETE IS THOROUGHLY WORKED AROUND THE REINFORCEMENT, EMBEDDED ITEMS, AND INTO CORNERS OF FORMS, ELIMINATING ALL AIR OR STONE POCKETS WHICH MAY CAUSE HONEYCOMBING. (CARE SHALL BE TAKEN NOT TO OVER VIBRATE AND CAUSE SEGREGATION).
- 3 REINFORCING STEEL:**
1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, ASTM A615, Fy=60 KSI.
 2. THE MINIMUM CLEAR DISTANCE FROM REINFORCING STEEL TO ADJACENT SURFACE SHALL BE: 3" FROM BOTTOM OF SLAB ON GRADE AND 2" FROM EDGES OF SLAB ON GRADE.
 3. PROVIDE LAP SPICES OF ALL SLAB REINFORCEMENT AS FOLLOWS: #5 BAR - 2'-4" MINIMUM, #7 BAR - 3'-8" MINIMUM, AT CHANGES IN DIRECTION OF SLAB. PROVIDE CORNER BARS WITH LEGS EQUAL TO BAR LAP SPICE LENGTH (MINIMUM).
 4. REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING CONCRETE PLACEMENT OPERATIONS USING APPROVED TIES, CHAIRS, AND SPACERS AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER. USE PLASTIC TYPED ACCESSORIES IN CONCRETE EXPOSED TO WEATHER, WATER, OR VIEW.
- 4 PRECAST CONCRETE:**
1. PRECAST CONCRETE SHALL BE THE PRODUCT OF A MANUFACTURER WHO HAS DEMONSTRATED THE ABILITY TO PRODUCE PRECAST PRODUCTS AND HAS BEEN IN BUSINESS FOR AT LEAST THE LAST THREE YEARS. THE MANUFACTURING PLANT AND METHODS SHALL CONFORM TO THE LATEST STANDARDS OF THE PRECAST CONCRETE INSTITUTE. THE DESIGN OF THE PRECAST MEMBERS SHALL BE BY A REGISTERED ENGINEER EXPERIENCED IN THE DESIGN OF PRECAST, PRESTRESSED CONCRETE DESIGN. PRECAST CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS OR HIGHER STRENGTH AS DEMAND NECESSARY BY DESIGN. ALL STEEL CONNECTION MATERIAL SHALL BE HOT-DIPPED GALVANIZED.
 - 1.1 THE SUPERIMPOSED DESIGN LOADS ON ALL BURIED STRUCTURES SHALL MEET OR EXCEED ASHSTO HS-20 LOADING UNLESS OTHERWISE NOTED.
- 5 MATERIAL SPECIFICATIONS:**
1. CONTRACTOR TO PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS SHOWN ON THE DESIGN PLANS AND/OR ANY MATERIALS WHICH ARE TO BE SUBSTITUTED FOR USE ON SITE FOR APPROVAL PRIOR TO CONSTRUCTION.
 2. MATERIALS NOT SPECIFIED HEREIN SHALL MEET OR EXCEED VERMONT AGENCY OF TRANSPORTATION (VADOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 3. GENERAL FILL SHALL BE A COMPACTABLE SAND OR GRAVEL REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 0-20 PERCENT PASSING THE NO. 100 SIEVE AND 40-100 PERCENT PASSING THE NO. 4 SIEVE.
 4. GRAVEL FOR SUBBASE SHALL BE FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 20-60 PERCENT PASSING A NO. 4 SIEVE, 0-12 PERCENT PASSING A NO. 100 SIEVE AND 0-4 PERCENT PASSING A NO. 200 SIEVE.
 5. CRUSHED GRAVEL FOR SUBBASE SHALL BE FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 100 PERCENT PASSING A 2 INCH SIEVE, 90-100 PERCENT PASSING A 1/2 INCH SIEVE 30-60 PERCENT PASSING A NO. 4 SIEVE, 0-12 PERCENT PASSING A NO. 100 SIEVE AND 0-4 PERCENT PASSING A NO. 200 SIEVE.
 6. DENSE GRADED CRUSHED STONE SHALL BE FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 100 PERCENT PASSING A 3/4" SIEVE, 90-100 PERCENT PASSING A 3 INCH SIEVE, 75-100 PERCENT PASSING A 2 INCH SIEVE, 50-80 PERCENT PASSING A 1 INCH SIEVE, 30-60 PERCENT PASSING A 1/2" SIEVE, 15-40 PERCENT PASSING A NO. 4 SIEVE, AND 0-6 PERCENT PASSING A NO. 200 SIEVE.
- 6 PROJECT PERMITS:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN COPIES OF AND ABIDE BY THE CONDITIONS OF THE PERMITS LISTED.
- 6.1 LOCAL APPROVALS
 - 6.2 VERMONT NATURAL RESOURCES BOARD: ACT 250 LAND USE PERMIT
 - 6.3 VERMONT STORMWATER MANAGEMENT DIVISION OPERATIONAL STORMWATER PERMIT 34010 CONSTRUCTION EROSION CONTROL PERMIT 34020
 - 6.4 VERMONT DRINKING WATER AND GROUNDWATER PROTECTION DIVISION WASTE WATER SYSTEM AND POTABLE WATER SUPPLY PERMIT PERMIT TO CONSTRUCT SOURCE AND CONSTRUCTION PERMIT
 - 6.5 VERMONT DIVISION OF FIRE SAFETY SOURCE AND CONSTRUCTION PERMIT
 - 6.6 UNDERGROUND SPRINKLER SYSTEM PIPING
 - 6.7 VERMONT AGENCY OF TRANSPORTATION HIGHWAY PERMIT

EROSION CONTROL DURING CONSTRUCTION

1. BEFORE ANY CLEARING, GRUBBING, OR DEMOLITION OF THE SITE IS INITIATED, AND DURING ALL EARTHWORK PHASES, EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AT THE INLET OF ALL STORM DRAINS, SWALES, AND DITCHES RECEIVING WATER FROM THE PROJECT. SEE TYPICAL DETAILS AND PLANS FOR TYPES AND LOCATIONS.
 2. SILT FENCE SHALL BE PLACED DOWN GRADIENT OF ALL DISTURBED AREAS. IF THE DISTURBED AREA IS 100' OR LESS FROM THE WATERS OF THE STATE THE SILT FENCE SHALL BE WIRE MESH REINFORCED.
 3. ALL STOCKPILED SOIL SHALL BE ENCRUIED WITH SILT FENCE. UNLESS AN EXISTING BARRIER WILL ENTRAP ALL EROSION FROM SUCH A STOCKPILE OR THE STOCKPILE IS COMPLETELY COVERED WITH VEGETATION THAT PREVENTS EROSION.
 4. NO MORE THAN 500 FEET OF TRENCH SHALL BE OPEN AT ONE TIME AND EXCAVATED MATERIAL TO BE USED FOR BACKFILL SHALL BE PLACED ON THE UPWIND SIDE OF THE TRENCH. ALL OTHER EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.
 5. STONE CHECK DAMS SHALL BE PLACED IN NEWLY CONSTRUCTED SWALES, DITCHES, OR OTHER WATERWAYS DURING THE CONSTRUCTION PERIOD. STONE INLET PROTECTION OR SEDIMENT CATCH BASIN INSERTS SHALL BE PLACED IN ALL NEW AND EXISTING CATCH BASIN WHICH RECEIVE RUNOFF FROM DISTURBED AREAS. THE PLACING OF THESE TRAPS AND DAMS SHALL BE AS SHOWN ON THE PLANS. MAINTENANCE SHALL BE AS IN #5 ABOVE.
 6. EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM NUMBER REQUIRED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE ADDITIONAL BARRIERS AS FIELD CONDITIONS DICTATE AND TO INSURE THAT ANY EROSION CREATED BY THIS PROJECT DOES NOT REACH THE STATES WATERWAYS OR LEAVE THE SITE.
 7. NEW SWALES AND DITCHES (AND ANY OTHER AREA SUBJECT TO CONCENTRATED STORM RUNOFF) SHALL BE FERTILIZED AND SEEDED WITH THE WET AREA SEED MIXTURE AS IN #10 TO AT LEAST TWO (2) FEET ABOVE THE CHANNEL BOTTOM AND SHALL HAVE MULCH APPLIED AT THE RATES OF 2 TONS PER ACRE.
 8. IN ALL NEW SWALES AND DITCHES AND WHERE SLOPE GRADIENTS EXCEEDS 25 PERCENT (1 ON 4 SLOPE), JUTE MATTING SECURELY ATTACHED TO THE GROUND SHALL BE PLACED OVER MULCH AND MAINTAINED UNTIL A PERMANENT GRASS COVER IS ESTABLISHED.
 9. ALL DISTURBED TERRAIN AT FINAL GRADE SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS OF COMPLETION, AND BY SEPTEMBER 15TH AT THE LATEST, BEFORE APPLYING FINAL SEEDING. A 1/4" DEPTH OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS TO BE SEEDED. SEED MIXTURES SHALL BE ONE AS SPECIFIED ON LANDSCAPING PLAN. IF NO SEED MIXTURE IS SPECIFIED IT SHALL BE ONE OF THE FOLLOWING, AS APPROPRIATE.

URBAN AREAS CONSERVATION MIX			WET AREA SEED MIX			GRAVEL SITES CONSERVATION MIX		
NAME	LBS/ACRE	% MIX	NAME	LBS/ACRE	% MIX	NAME	LBS/ACRE	% MIX
CREeping RED FESCUE	34.0	42.5	VIRGINIA WILD RYE	20		SWITCH GRASS	4.0	32.0
PERENNIAL RYE GRASS	8.0	10.0	GRASS			BIG BLUESTEM	4.0	32.0
KENTUCKY BLUE GRASS	34.0	42.5	FOX SEDGE	10		LITTLE BLUESTEM	2.0	16.0
ANNUAL RYEGRASS	4.0	5.0	AMERICAN MANNAGRASS	20		SAND LOVEGRASS	2.0	16.0
	80.0	100%	GIANT BURGRASS	10		BLACKVEED SUSAN	1.0	8.0
			COMMON THREE-SQUARE	20			13.0	100.0

RURAL AREAS CONSERVATION MIX			UPLAND NATIVE MIX FOR DRY SITES		
NAME	LBS/ACRE	% MIX	NAME	LBS/ACRE	% MIX
CREeping RED FESCUE	22.5	37.5	SOFT-STEM BULRUSH	10	
TALL FESCUE	22.5	37.5	CANADA RUSH	10	
RED TOP	3.0	5.0		100	
BIRDFOOT TREFOIL	9.0	15.0	RETENTION BASIN MIX		
ANNUAL RYEGRASS	3.0	5.0	NAME	LBS/ACRE	% WT.
	60.0	100%	RED TOP	5.0	20.0
			CREeping BENTGRASS	5.0	20.0
			RIVERBANK WILD RYE	5.0	20.0
			POWL BLUEGRASS	5.0	20.0
			ALKALIGRASS	5.0	20.0
				25.0	100%
 10. ALL NEWLY SEEDED AREAS SHALL BE MULCHED AT A RATE OF TWO (2) TONS PER ACRE OF HAY OR STRAW DURING WINTER CONSTRUCTION. MULCH SHALL BE APPLIED AT A RATE OF 4 TONS PER ACRE. JUTE OR OTHER EQUIV. NETTING SHALL BE USED WHERE WIND OR WATER MAY ERODE NEWLY-PLACED SEED OR MULCH OR WHERE GRADE EXCEEDS 25% (1:4). ALL NETTING, WHERE USED, SHALL BE STAKED TO THE GROUND IN COMPLIANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 11. ALL AREAS THAT REACH FINISHED GRADE DURING THE WINTER CONSTRUCTION SEASON SHALL BE MULCHED AT A RATE OF 4 TONS/ACRE AND TACKED DOWN TO PREVENT WINDTHROW WITHIN 24 HOURS OF REACHING FINAL GRADE. THESE AREAS SHALL BE SEEDED AS SPECIFIED IN NOTE 10 IN THE SPRING AS SOON AS WEATHER ALLOWS.
 12. ALL HAY MULCH SHALL BE TACKED DOWN TO PREVENT WINDTHROW. JUTE MATTING OR EQUIVALENT SHALL BE USED WHERE INDICATED ON PLANS. IN ALL OTHER AREAS MULCHED SHALL BE TRACKED WITH A BULLDOZER. THE CLEATS OF THE BULLDOZER SHALL BE PARALLEL TO THE CONTOURS. DURING THE WINTER CONSTRUCTION SEASON NETTING OR JUTE MATTING SHALL BE USED TO TACK DOWN ALL MULCH.
 13. ALL DISTURBED AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED AGAIN FOR A PERIOD OF GREATER THAN THIRTY (30) DAYS, SHALL BE SEEDED WITH A TEMPORARY, RAPID-GROWING COVER CROP SUCH AS RYE GRASS AND MILLET, AND SHALL BE MULCHED. NETTING SHALL ALSO BE APPLIED, AS SPECIFIED IN ITEM 13, TO STABILIZE THE MULCH AND SEED.
 14. ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: 1) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. 2) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES).
 15. DURING WINTER CONSTRUCTION ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: 1) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS; 2) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES).
 16. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION OF THE SITE.
 17. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AS WELL AS BEFORE AND AFTER ANY RAIN EVENT BY THE ON-SITE COORDINATOR WHO WILL BE RESPONSIBLE FOR RECTIFYING ANY PROBLEMS FOUND. ALL INSPECTION FORMS SHALL BE KEPT ON-SITE AS RECORDS OF THE CONDITION OF THE EROSION CONTROL MEASURES. TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT SITE STABILIZATION. DURING THE WINTER CONSTRUCTION SEASON SPECIAL ATTENTION SHALL BE PAID TO THE CHANGES IN WEATHER THAT COULD CAUSE SIGNIFICANT SNOW MELT AND RUNOFF.
 18. NO MORE THAN 3 ACRES SHALL BE DISTURBED (WITHOUT TEMPORARY OR FINAL STABILIZATION) AT ANY ONE TIME.
 19. SEEDING MUST BE COMPLETED BY SEPTEMBER 15.
 20. CONTRACTOR SHALL APPLY DUST CONTROL MEASURES AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO PREVENT THE AIR MOVEMENT OF DUST. ACCEPTABLE METHODS OF DUST CONTROL ARE: VEGETATIVE COVER, MULCHING, SPRINKLING OF WATER, OR THE USE OF CALCIUM CHLORIDE.
- LEAKAGE TESTING OF WATER DISTRIBUTION PIPING**
1. USE LEAKAGE/ PRESSURE TESTING PROCEDURE DESCRIBED IN NFPA 24 OR AWWA C600 AS APPROPRIATE.
 2. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO TESTING. ENGINEER MUST BE PRESENT AT TEST FOR ACCEPTANCE.
 3. AFTER TESTING AND PRIOR TO ACCEPTANCE THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH AS-BUILT DRAWINGS.
 - A. AFTER PIPE HAS BEEN LAID, ALL NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF AT LEAST 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICH EVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE FOR NOT LESS THAN 2 HOURS.
 - B. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE REMOVED FROM THE TEST SECTION.
 - D. TESTING ALLOWANCE SHALL BE DEFINED AS THE QUANTITY OF MAKEUP WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF TO MAINTAIN PRESSURE WITHIN 8 PSI OF THE SPECIFIED TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED.
 - E. NO PIPE INSTALLATION SHALL BE ACCEPTED IF THE AMOUNT OF MAKEUP WATER IS GREATER THAN THAT ALLOWED BY NFPA 24 OR AWWA C600.
 - F. PREPARE REPORTS FOR PRESSURE TESTING RESULTS.

CLEANING AND DISINFECTION OF WATER DISTRIBUTION PIPING

1. PURGE NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USE.
 2. USE PURGING AND DISINFECTING PROCEDURE DESCRIBED BY AUTHORITY HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C601 AS DESCRIBED BELOW.
 1. DISINFECTION OF WATER LINES PER AWWA C601 IS TO BE BY THE CONTINUOUS FLEET METHOD OR THE SLUG METHOD. THE TABLET METHOD DESCRIBED IN AWWA C601 NOT ACCEPTABLE AND IS HEREBY STRICTLY PROHIBITED.
 2. COMPLY WITH NFPA 24 FOR FLUSHING OF PIPING. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT POINTS OF OUTLET.
 3. FILL SYSTEM OR PART OF SYSTEM WITH WATER/CHLORINE SOLUTION CONTAINING AT LEAST 25 PARTS PER MILLION OF CHLORINE. ISOLATE (VALVE OFF) SYSTEM OR PART THEREOF AND ALLOW TO STAND FOR 24 HOURS.
 24. MEASURE FREE CHLORINE RESIDUAL AFTER 24 HOUR STANDING PERIOD. IF THE FREE CHLORINE RESIDUAL IS LESS THAN 10 mg/L, FLUSH AND REFILL THE LINE AND REPEAT CHLORINATION FOR AN ADDITIONAL 24 HOURS.
 25. FOLLOWING ALLOWED STANDING TIME. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE DOES NOT REMAIN IN WATER COMING FROM SYSTEM.
 26. A MINIMUM OF TWO WATER SAMPLES MUST BE COLLECTED A MINIMUM OF 24 HOURS APART FOR BACTERIOLOGICAL TESTING. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO A LABORATORY APPROVED BY THE VERMONT DEPARTMENT OF HEALTH (OR AUTHORITY HAVING JURISDICTION) FOR DRINKING WATER ANALYSIS. REPEAT PROCEDURE IF BIOLOGICAL EXAMINATION MADE BY AUTHORITY SHOWS EVIDENCE OF CONTAMINATION.
 27. PREPARE REPORTS FOR PURGING AND DISINFECTING ACTIVITIES. CONTRACTOR SHALL SEND ENGINEER TEST RESULTS.
- 3. DECHLORINATION**
1. DO NOT KEEP HEAVILY CHLORINATED WATER IN CONTACT WITH PIPE FOR MORE THAN 48 HOURS AFTER THE APPLICABLE RETENTION PERIOD. IN ORDER TO PREVENT DAMAGE TO THE PIPE LING OR CORROSION DAMAGE TO THE PIPE ITSELF, FLUSH THE HEAVILY CHLORINATED WATER FROM THE MAIN FITTINGS, VALVES, AND BRANCHES UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE DISTRIBUTION SYSTEM OR IS ACCEPTABLE FOR DOMESTIC USE. TAKE ALL STEPS NECESSARY TO DECHLORINATE WATER PER PARAGRAPH 3.2 AND 3.3 BELOW.
 2. NEUTRALIZE THE CHLORINE RESIDUAL OF THE WATER BEING DISPOSED OF BY TREATING WITH ONE OF THE CHEMICALS LISTED IN TABLE 4 BELOW. SELECT AN ALTERNATIVE DISPOSAL SITE IF A SANITARY SEWER SYSTEM IS UNAVAILABLE FOR DISPOSAL OF THE CHLORINATED WATER.
 - 3.3 THE PROPOSED ALTERNATIVE DISPOSAL SITE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER. A REDUCING AGENT TO THE CHLORINATED WATER TO BE WASTED TO COMPLETELY NEUTRALIZE THE CHLORINE RESIDUAL REMAINING IN THE WATER. (SEE TABLE A FOR NEUTRALIZING CHEMICALS. DO NOT OVERDOSE NEUTRALIZING CHEMICALS AS THIS MAY RESULT IN ADVERSE ENVIRONMENTAL IMPACTS. ONLY DOSE THE AMOUNT REQUIRED TO NEUTRALIZE THE AMOUNT OF CHLORINE PRESENT). CONTACT FEDERAL, STATE AND LOCAL REGULATORY AGENCIES, WHERE NECESSARY, TO DETERMINE SPECIAL PROVISIONS FOR THE DISPOSAL OF HEAVILY CHLORINATED WATER.
- | RESIDUAL CHLORINE CONCENTRATION (MG/L) | SULFUR DIOXIDE (LBS) | SODIUM BISULFATE (LBS) | SODIUM SULFITE (LBS) | SODIUM THIOSULFATE (LBS) | ASCORBIC ACID (LBS) |
|--|----------------------|------------------------|----------------------|--------------------------|---------------------|
| 1 | 0.8 | 1.2 | 1.4 | 1.2 | 2.1 |
| 2 | 1.7 | 2.5 | 2.9 | 2.4 | 4.2 |
| 10 | 8.3 | 12.5 | 14.6 | 12.0 | 20.9 |
| 50 | 41.7 | 62.6 | 73.0 | 60.0 | 104.0 |
- 3.4. TEST FOR CHLORINE RESIDUAL THROUGHOUT THE DISPOSAL PROCESS TO BE SURE THAT THE CHLORINE IS NEUTRALIZED.
 - 3.5. SUBMIT A PLAN OF DISPOSAL OF FLUSHED WATER TO ENGINEER FOR APPROVAL.
 - 3.6. DISCHARGE OF CHLORINATED WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED.
- LEAKAGE TESTING OF SEWER PIPING AND MANHOLES**
1. USE LEAKAGE TESTING PROCEDURE DESCRIBED BY AUTHORITY HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE PROCEDURE DESCRIBED IN VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, EFFECTIVE SEPTEMBER 28, 2007, APPENDIX 1A, DESIGN GUIDELINES, SECTION 1.4.0-2.
 2. CONTRACTOR SHALL NOTIFY ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO TESTING. ENGINEER MUST BE PRESENT AT TEST FOR ACCEPTANCE.
 3. AFTER TESTING AND PRIOR TO ACCEPTANCE THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH AS-BUILT DRAWINGS.
- MANHOLE TESTING**
- A. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRAVITY SEWERS UTILIZING THE VACUUM OR HYDROSTATIC TESTING PROCEDURE WHICH TAKE INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE IN THE TEST SECTION. OTHER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THIS PROCEDURE.
 - B. FOR THE VACUUM TEST ALL INFLOW AND OUTFLOW PIPES SHALL BE PLUGGED AND THE MANHOLE SHALL NOT BE BACKFILLED PRIOR TO TESTING. MANHOLES THAT HAVE BEEN BACKFILLED SHALL BE EXCAVATED TO EXPOSE THE ENTIRE EXTERIOR OF THE MANHOLE SHALL BE HYDROSTATICALLY TESTED. A INFLATABLE RUBBER RING SHALL BE FITTED TO THE TOP OF THE MANHOLE AND INFLATED WITH AIR TO A PRESSURE ADEQUATE TO PREVENT LEAKAGE OF AIR. AIR SHALL THEN BE PUMPED OUT OF THE MANHOLE TO CREATE A VACUUM EQUAL TO 10 INCHES OF MERCURY. ONCE COMPLETE THE TEST WILL BEGIN AND THE PRESSURE MUST NOT DROP BELOW 9 INCHES OF MERCURY DURING THE 2 MINUTE TEST TIME.
 - C. FOR THE HYDROSTATIC TEST ALL INFLOW AND OUTFLOW PIPES SHALL BE PLUGGED AND THE MANHOLE FILLED WITH WATER TO THE TOP OF THE CONE CONE. A STABILIZATION PERIOD OF ONE HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE. IF NECESSARY, AND THE TEST TIME OF AT LEAST 6 HOURS BEGIN AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE. MEASURING THE VOLUME OF WATER ADDED, THE LEAKAGE FOR EACH MANHOLE SHALL NOT EXCEED ONE GALLON PER VERTICAL FOOT FOR A 24 HOUR PERIOD AND THERE SHALL BE NO VISIBLE INFILTRATION.
- PIPING TESTING**
- A. ALL NEWLY LAID SANITARY SEWERS SHALL BE TESTED FOR LEAKAGE EITHER THE WATER METHOD OR THE AIR METHOD AS SPECIFIED IN THE VERMONT ENVIRONMENTAL PROTECTION RULES IS ACCEPTABLE AT THE OPTION OF THE CONTRACTOR.
 - B. THE MAXIMUM LEAKAGE SHALL BE 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE PER DAY FOR THE WATER TEST METHOD. THE WATER TEST SHALL BE CONDUCTED UNDER 2 FEET OF HEAD ABOVE THE HIGHEST POINT TESTED OR ABOVE THE HIGHEST KNOWN WATER TABLE, WHICH EVER IS HIGHER.
 - C. AIR TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM STANDARD C828-80. THE MINIMUM ALLOWED TIME FOR A PRESSURE DROP FROM 3.5 PSI TO 2.5 PSI SHALL BE 12 MINUTES PER 100 FEET OF 8" PIPE AND 17 MINUTES PER 100 FEET OF 6" PIPE. SEE VERMONT ENVIRONMENTAL PROTECTION RULES, APPENDIX 1, TABLE 1.4-3 FOR OTHER PIPE SIZES.
- LANDSCAPING NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
 2. LANDSCAPING CONTRACTOR SHALL RECEIVE SITE GRADE TO +/- 0.10 FOOT.
 3. ALL PLANT MATERIALS AND FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
 4. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR SHALL CONTACT OWNERS REPRESENTATIVE FOR IMMEDIATE RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE OWNERS REPRESENTATIVE WILL RESULT IN CONTRACTORS LIABILITY TO RELOCATE THE MATERIALS.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS DAMAGED DURING PLANTING OPERATIONS.
 6. FINAL PLACEMENT OF ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OF OWNERS REPRESENTATIVE PRIOR TO FINAL PLACEMENT AND BACKFILL. CONTACT OWNERS REPRESENTATIVE 24-HOURS PRIOR TO PLACEMENT FOR APPROVAL.

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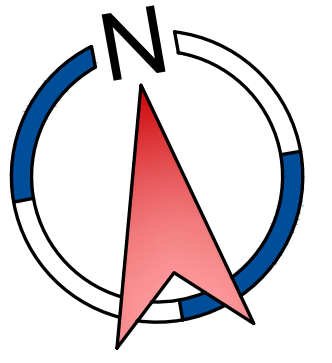
Hampton Inn
18-730ND / MPVWTH-ID#55126
VERMONT
RANDOLPH

NO	DATE	REVISION:
1	8/14/17	SOS DD REVIEW
1	10/24/15	DESIGN DEVELOPMENT

DATE: April 26, 2018
SCALE: N/A
PROJECT NO: 18283
DRAWN BY: RJC
CHECKED BY: BMLK

LEGEND AND GENERAL NOTES

SHEET NUMBER:
CO.01



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NO.	DATE	REVISION:
1	8/14/19	SOI D0 REVIEW
2	10/24/19	DESIGN DEVELOPMENT

DATE: April 26, 2018

SCALE: 1" = 50'

PROJECT NO: 18289

DRAWN BY: RBC

CHECKED BY: BMLK

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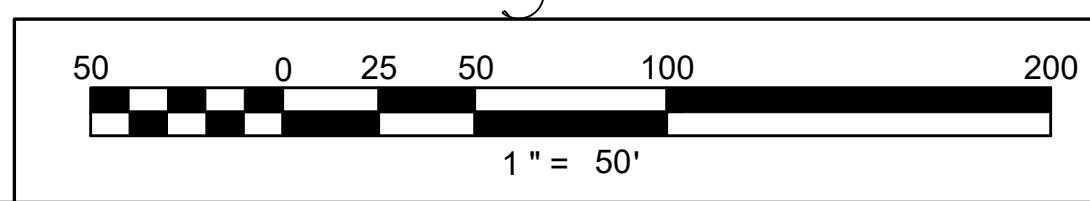
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SHEET NUMBER:

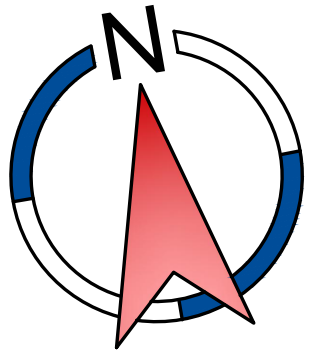
C1.01



- NOTES:
1. Topographic survey completed by Vermont Survey and Engineering, Inc. December 2018.
 2. This is not a boundary survey, property lines are from a plan titled "Survey and Subdivision of a Portion of the Lands of the Estate of Alice E. LaFrance" dated August 15, 2006 by McCain Consulting, Inc.
 3. Survey completed on NAD 83 horizontal and NAVD 88 vertical datums.
 4. Utility locations are approximate, contractor to contact dig-safe prior to commencing work in order to verify the utility locations.



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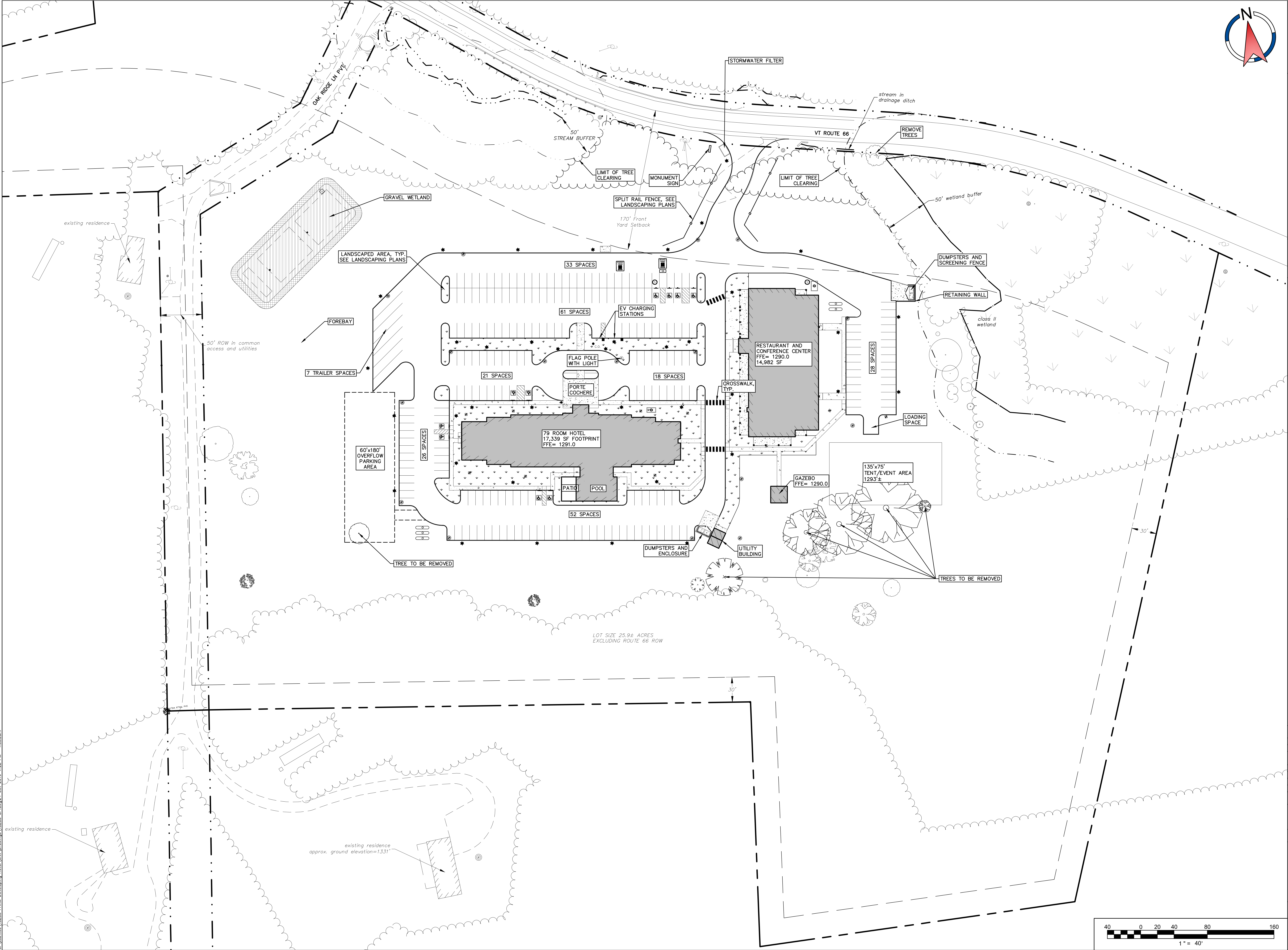
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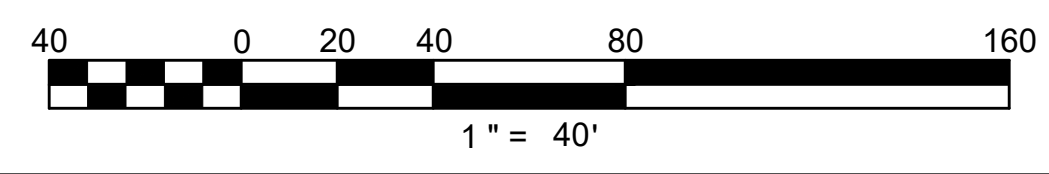


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LOT SIZE 25.9± ACRES
EXCLUDING ROUTE 66 ROW



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NO.	DATE	REVISION
1	8/14/19	50% DD REVIEW
2	9/27/19	STREAM BUFFER
3	10/24/19	DESIGN DEVELOPMENT

DATE: April 26, 2018

SCALE: 1" = 40'
PROJECT NO.: 18283

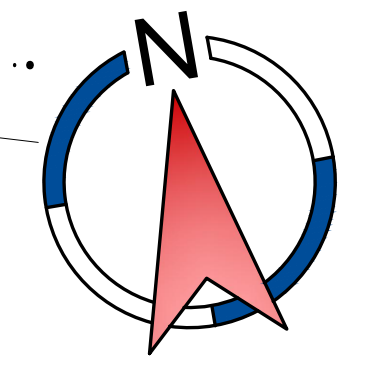
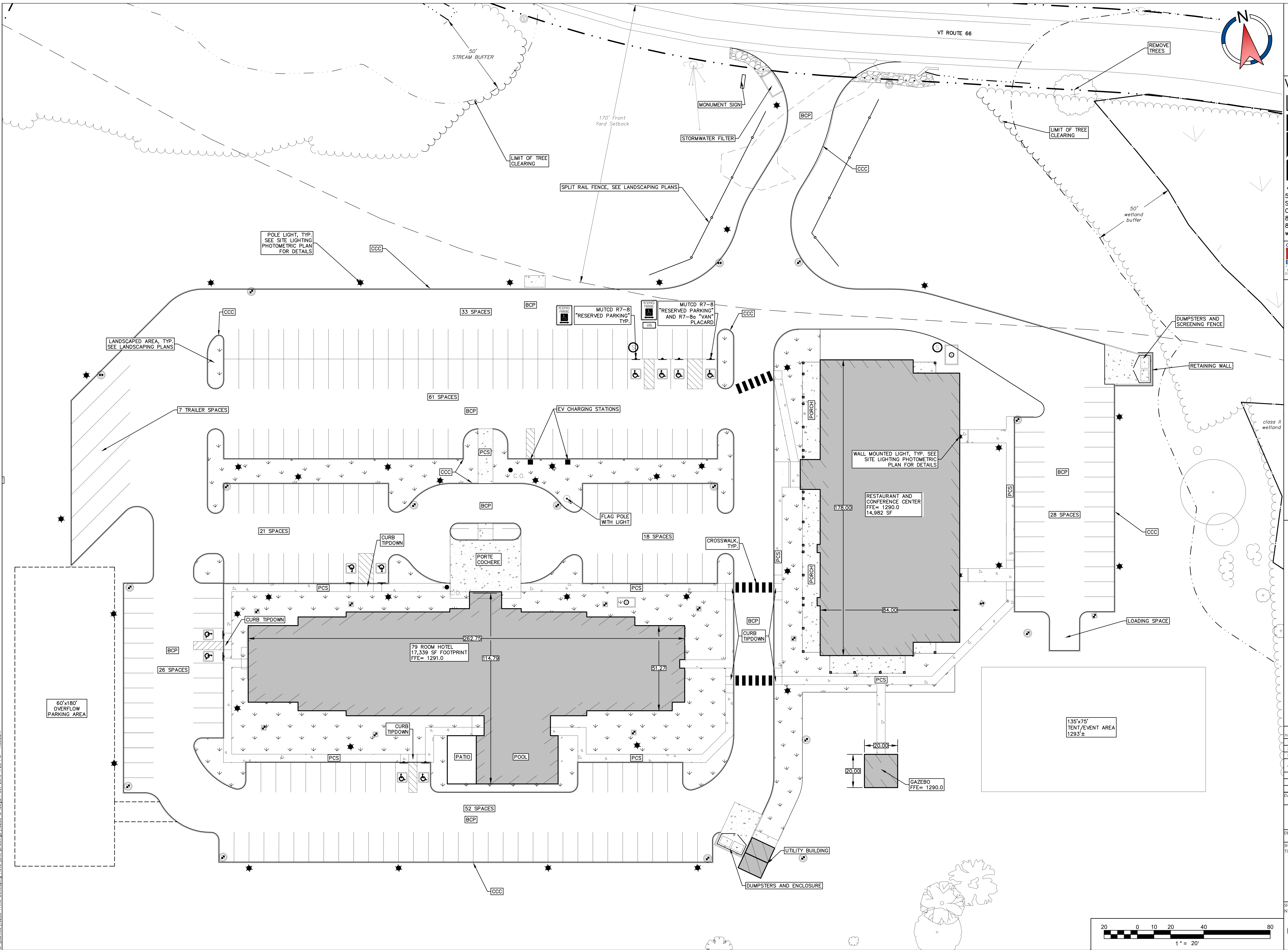
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SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:

C1.02

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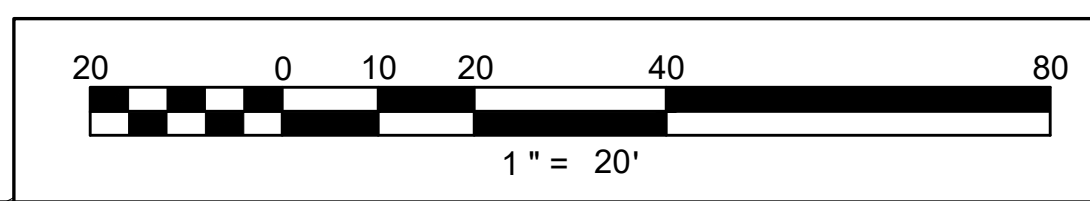
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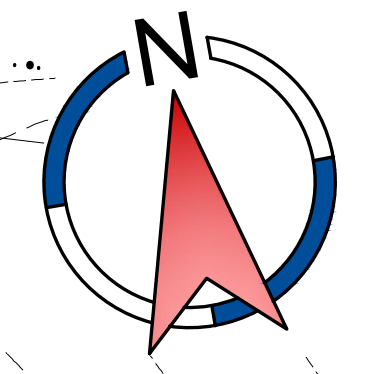
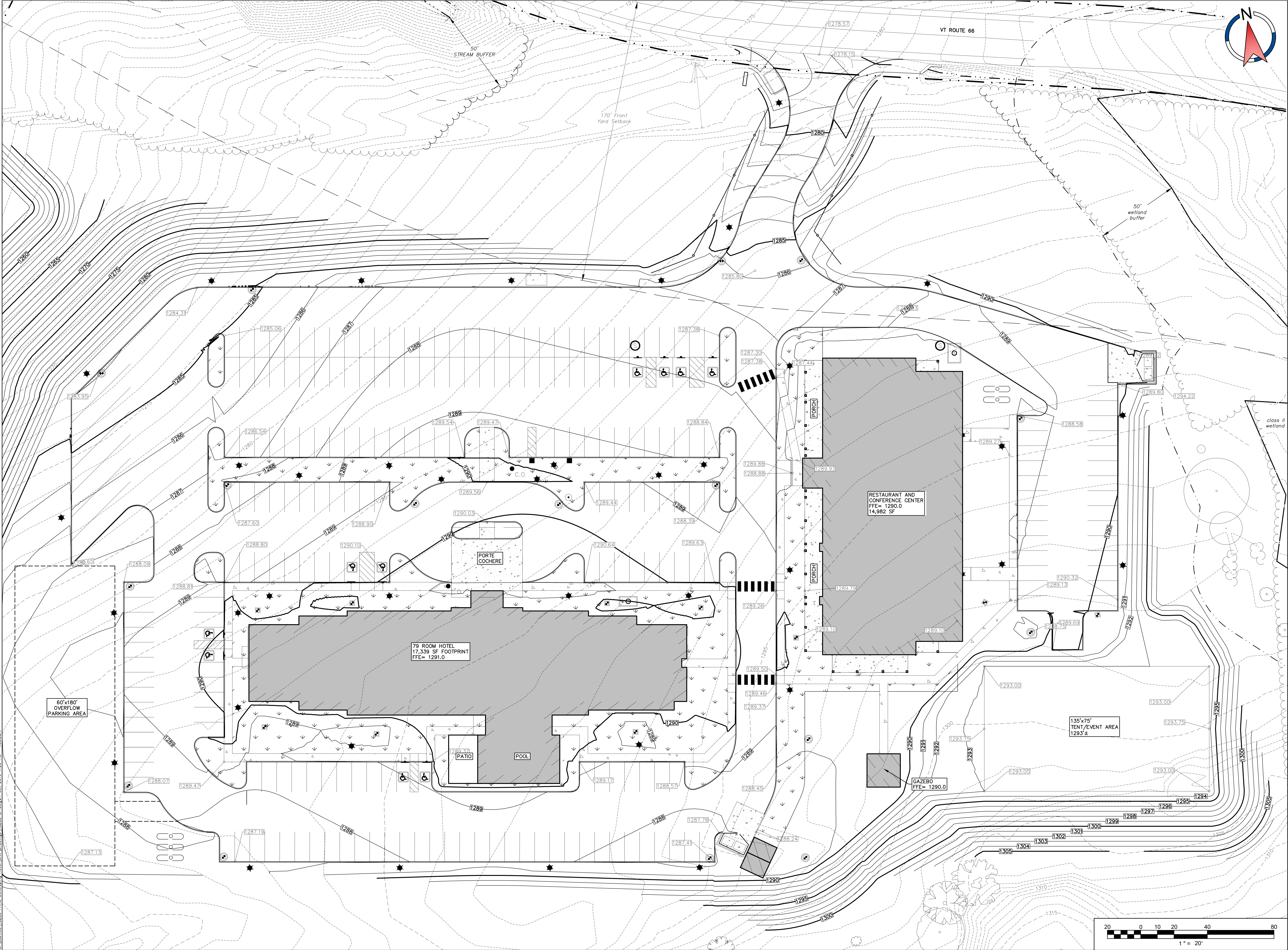
NO.	DATE	REVISION:
1	5/21/17	ROADWAY TREE
2	6/16/17	SOB DRAINAGE
3	9/27/17	STREAM BUFFER
4	10/24/18	DESIGN DEVELOPMENT

DATE: April 15, 2018
SCALE: 1" = 20'
PROJECT NO.: 18283
DRAWN BY: RBC
CHECKED BY: BMLK

SHEET NUMBER:
C1.03



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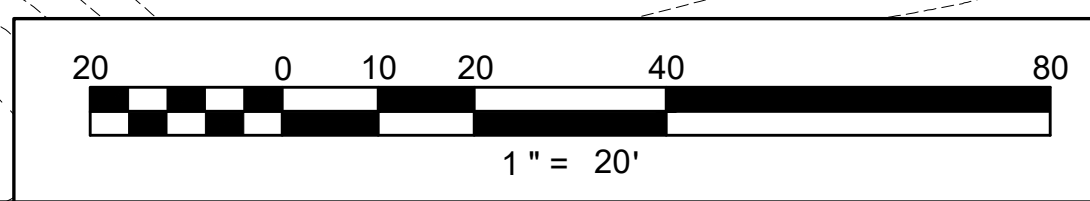
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NO.	DATE	REVISION:
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2	10/24/19	DESIGN DEVELOPMENT

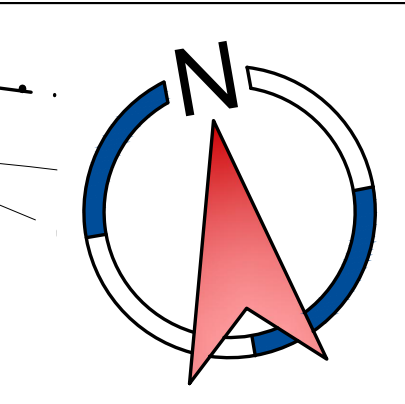
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 SCALE: 1" = 20'
 PROJECT NO: 20180069
 DRAWN BY: RBC
 CHECKED BY: BMLK

SHEET TITLE:
 GRADING PLAN

SHEET NUMBER:
 C1.04



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PERSONS TO BE EMPLOYED SHALL BE 50% VERMONT AND 50% OUT OF STATE

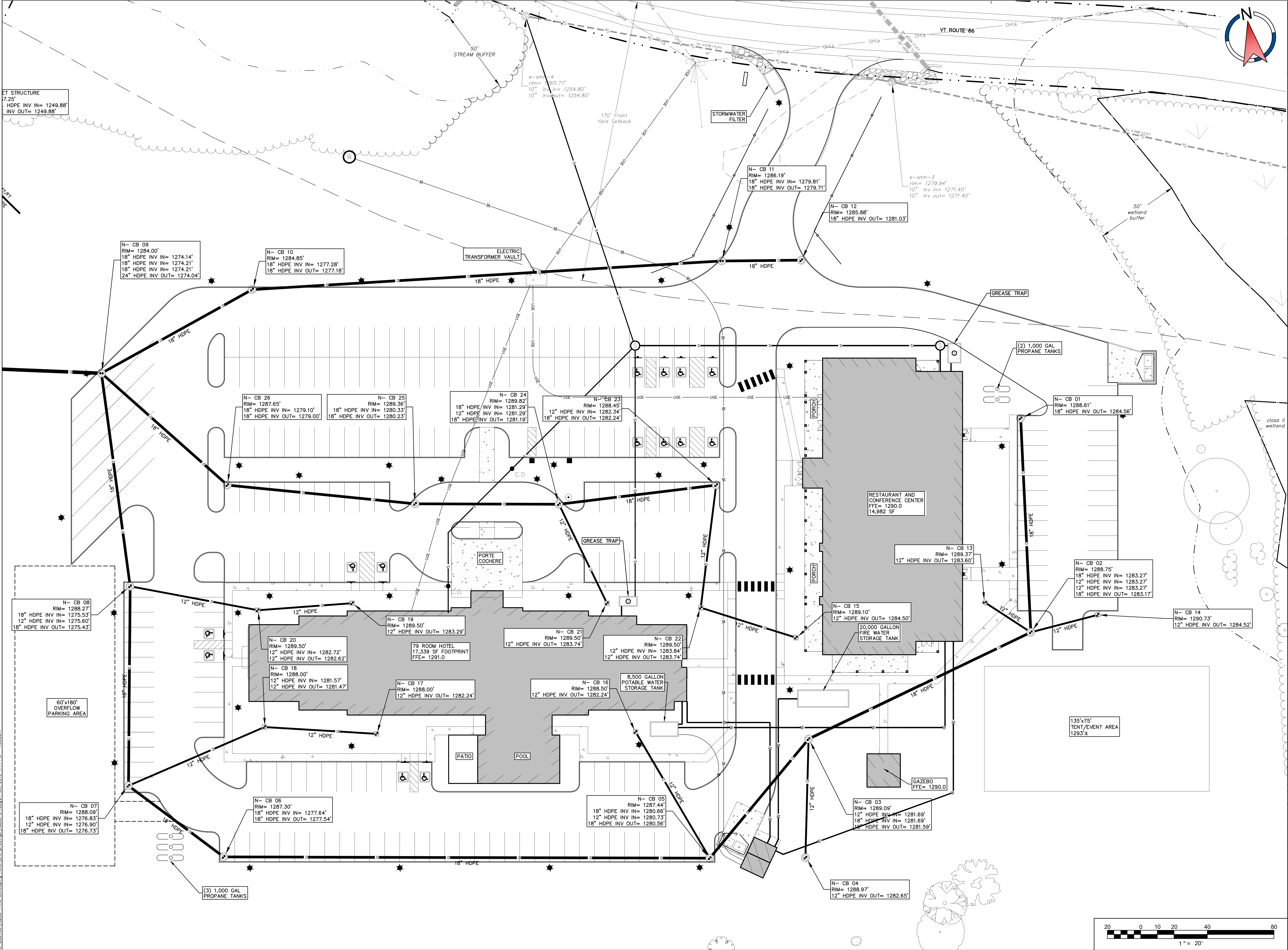
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ET STRUCTURE
7.25'
18" HDPE INV IN= 1249.88'
18" HDPE INV OUT= 1249.88'



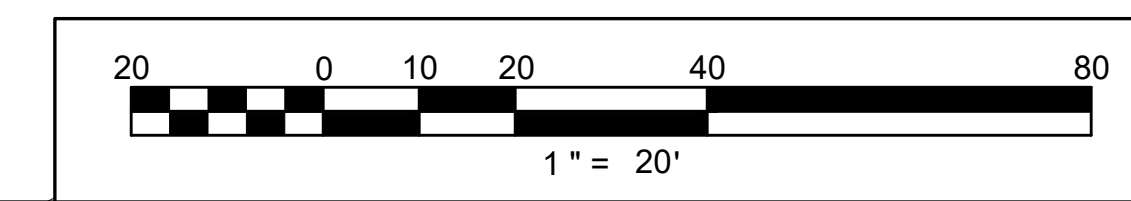
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NO.	DATE	REVISION:
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2	9/27/19	STREAM BUFFER
3	10/24/19	DESIGN DEVELOPMENT

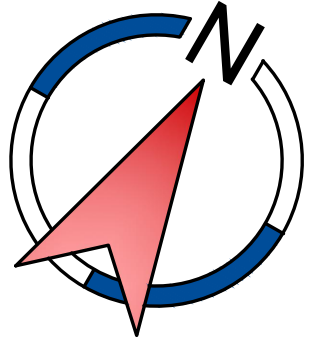
DATE: April 26, 2018
SCALE: 1" = 20'
PROJECT NO.: 18285
DRAWN BY: RRC
CHECKED BY: BMLK

SHEET TITLE: UTILITY PLAN

SHEET NUMBER: C1.05



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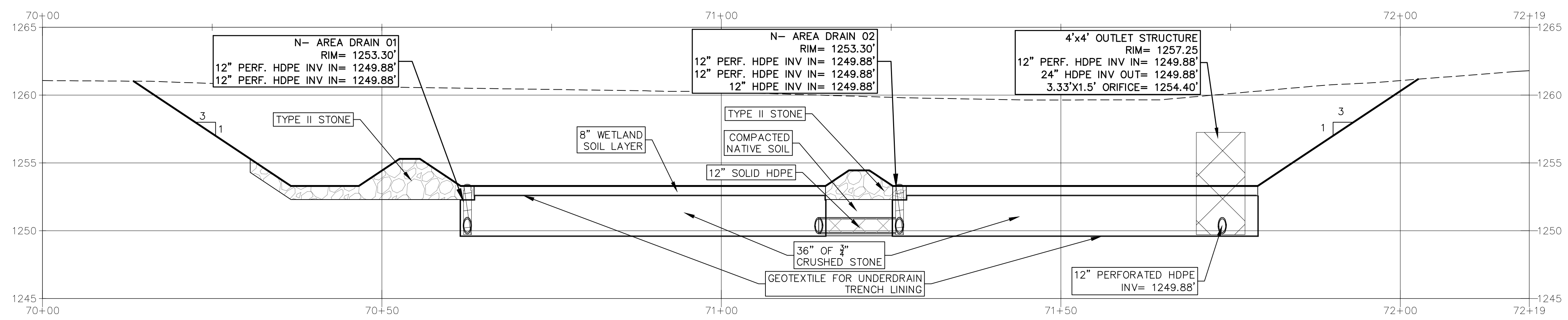
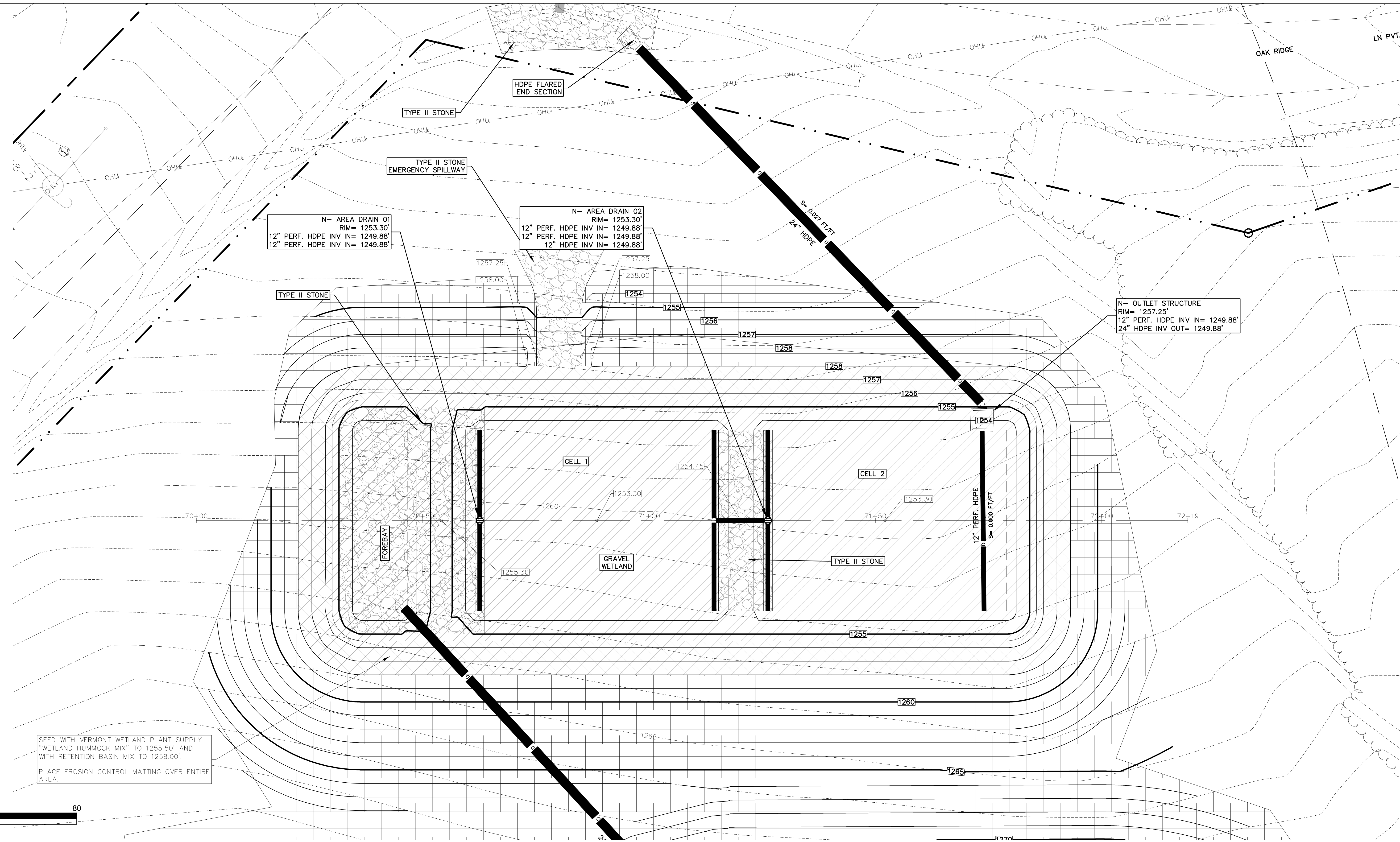
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GRAVEL WETLAND PROFILE
SEE DETAIL ON SHEET C5.03 FOR ADDITIONAL DETAILS

NO.	DATE	REVISION

DATE: October 24, 2018
SCALE: As Noted
PROJECT NO.: 2018069
DRAWN BY: RJC
CHECKED BY: BMLK

SHEET TITLE:
Gravel Wetland
Plan and Profile

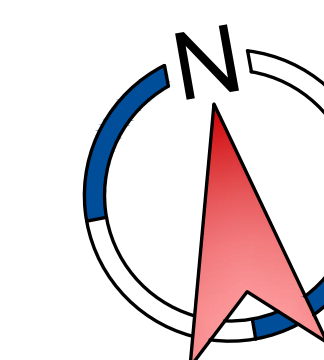
SHEET NUMBER:

C3.01

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VERTICAL SCALE
1" = 5'

HORIZONTAL SCALE
1" = 10'



PERSONS TO REMOVAL PLANS
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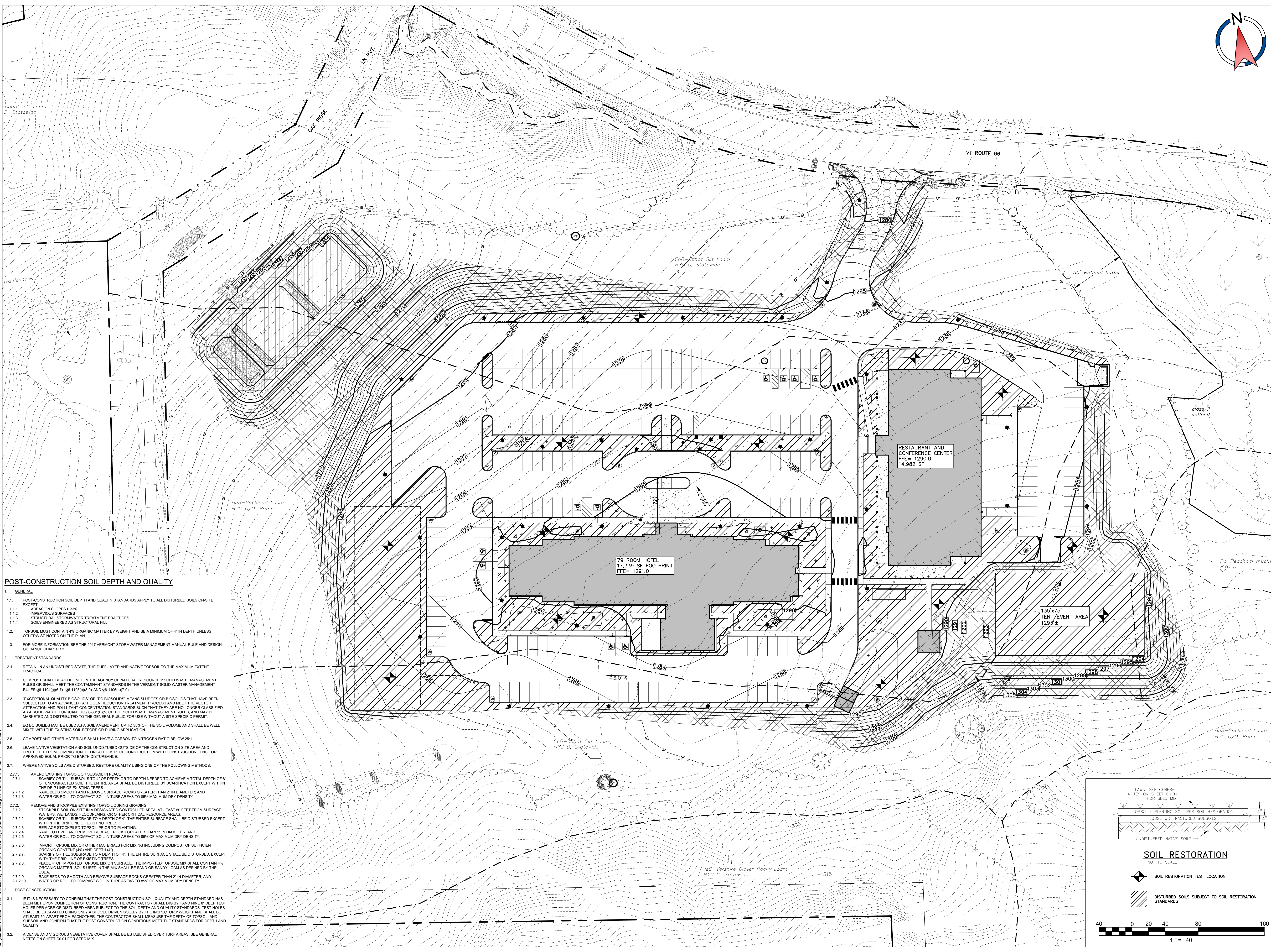
NO.	DATE	REVISION:

DATE: October 24, 2018
SCALE: 1" = 20'
PROJECT NO.: 2018069

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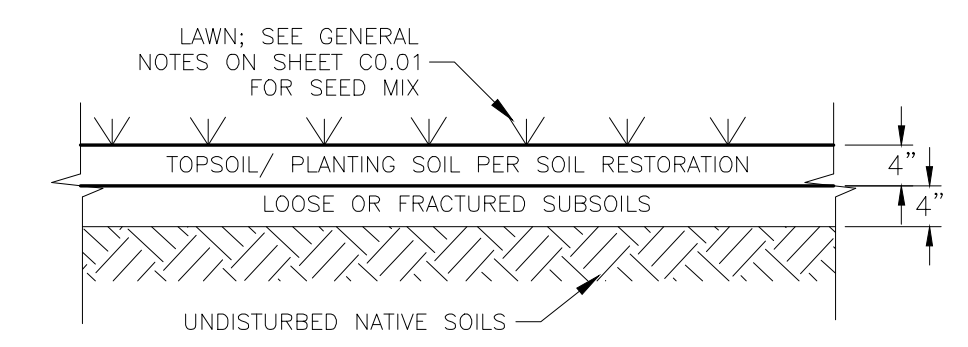
SHEET TITLE:
Erosion Control
and Soil Quality

SHEET NUMBER:
EC.01



POST-CONSTRUCTION SOIL DEPTH AND QUALITY

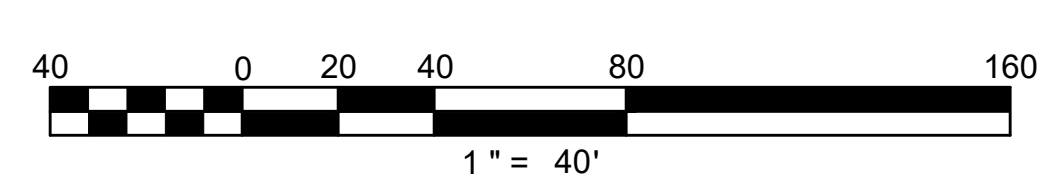
1. GENERAL:
 - 1.1. POST-CONSTRUCTION SOIL DEPTH AND QUALITY STANDARDS APPLY TO ALL DISTURBED SOILS ON-SITE EXCEPT:
 - 1.1.1. AREAS ON SLOPES > 33%
 - 1.1.2. IMPERVIOUS SURFACES
 - 1.1.3. STRUCTURAL STORMWATER TREATMENT PRACTICES
 - 1.1.4. SOILS ENGINEERED AS STRUCTURAL FILL
 - 1.2. TOPSOIL MUST CONTAIN 4% ORGANIC MATTER BY WEIGHT AND BE A MINIMUM OF 4" IN DEPTH UNLESS OTHERWISE NOTED ON THE PLAN.
 - 1.3. FOR MORE INFORMATION SEE THE 2017 VERMONT STORMWATER MANAGEMENT MANUAL RULE AND DESIGN GUIDANCE CHAPTER 3.
2. TREATMENT STANDARDS
 - 2.1. RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICAL.
 - 2.2. COMPOST SHALL BE AS DEFINED IN THE AGENCY OF NATURAL RESOURCES' SOLID WASTE MANAGEMENT RULES OR SHALL MEET THE CONTAMINANT STANDARDS IN THE VERMONT SOLID WASTE MANAGEMENT RULES §6-1104(g)(6-7), §6-1105(e)(8-9), AND §6-1106(e)(7-9).
 - 2.3. "EXCEPTIONAL QUALITY BIOSOLIDS" OR "EQ BIOSOLIDS" MEANS SLUDGES OR BIOSOLIDS THAT HAVE BEEN SUBJECTED TO AN ADVANCED PATHOGEN REDUCTION TREATMENT PROCESS AND MEET THE VECTOR ATTRACTION AND POLLUTANT CONCENTRATION STANDARDS SUCH THAT THEY ARE NO LONGER CLASSIFIED AS A SOLID WASTE PURSUANT TO §6-3018(5) OF THE SOLID WASTE MANAGEMENT RULES, AND MAY BE MARKETED AND DISTRIBUTED TO THE GENERAL PUBLIC FOR USE WITHOUT A SITE-SPECIFIC PERMIT.
 - 2.4. EQ BIOSOLIDS MAY BE USED AS A SOIL AMENDMENT UP TO 35% OF THE SOIL VOLUME AND SHALL BE WELL MIXED WITH THE EXISTING SOIL BEFORE OR DURING APPLICATION.
 - 2.5. COMPOST AND OTHER MATERIALS SHALL HAVE A CARBON TO NITROGEN RATIO BELOW 25:1.
 - 2.6. LEAVE NATIVE VEGETATION AND SOIL UNDISTURBED OUTSIDE OF THE CONSTRUCTION SITE AREA AND PROTECT IT FROM COMPACTION. DELINEATE LIMITS OF CONSTRUCTION WITH CONSTRUCTION FENCE OR APPROVED EQUIVALENT PRIOR TO EARTH DISTURBANCE.
 - 2.7. WHERE NATIVE SOILS ARE DISTURBED, RESTORE QUALITY USING ONE OF THE FOLLOWING METHODS:
 - 2.7.1. AMEND EXISTING TOPSOIL OR SUBSOIL IN PLACE
 - 2.7.1.1. SCARIFY OR TILL SUBSOILS TO 4" OF DEPTH OR TO DEPTH NEEDED TO ACHIEVE A TOTAL DEPTH OF 8" OF UNCOMPACTED SOIL. THE ENTIRE AREA SHALL BE DISTURBED BY SCARIFICATION EXCEPT WITHIN THE DRIP LINE OF EXISTING TREES.
 - 2.7.1.2. RAKE BEDS SMOOTH AND REMOVE SURFACE ROCKS GREATER THAN 2" IN DIAMETER, AND WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
 - 2.7.2. REMOVE AND STOCKPILE EXISTING TOPSOIL DURING GRADING
 - 2.7.2.1. STOCKPILE SOIL ON-SITE IN A DESIGNATED CONTROLLED AREA, AT LEAST 50 FEET FROM SURFACE WATERS, WETLANDS, FLOODING, OR OTHER CRITICAL RESOURCE AREAS.
 - 2.7.2.2. SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4". THE ENTIRE SURFACE SHALL BE DISTURBED EXCEPT WITHIN THE DRIP LINE OF EXISTING TREES.
 - 2.7.2.3. REPLACE STOCKPILED TOPSOIL PRIOR TO PLANTING.
 - 2.7.2.4. RAKE TO LEVEL AND REMOVE SURFACE ROCKS GREATER THAN 2" IN DIAMETER, AND WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
 - 2.7.2.5. WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
 - 2.7.2.6. IMPORT TOPSOIL MIX OR OTHER MATERIALS FOR MIXING INCLUDING COMPOST OF SUFFICIENT ORGANIC CONTENT (4%) AND DEPTH (4").
 - 2.7.2.7. SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4". THE ENTIRE SURFACE SHALL BE DISTURBED, EXCEPT WITHIN THE DRIP LINE OF EXISTING TREES.
 - 2.7.2.8. PLACE 4" OF IMPORTED TOPSOIL MIX ON SURFACE. THE IMPORTED TOPSOIL MIX SHALL CONTAIN 4% ORGANIC MATTER. SOILS USED IN THE MIX SHALL BE SAND OR SANDY LOAM AS DEFINED BY THE USDA.
 - 2.7.2.9. RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS GREATER THAN 2" IN DIAMETER, AND WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
 - 2.7.2.10. WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
3. POST-CONSTRUCTION
 - 3.1. IF IT IS NECESSARY TO CONFIRM THAT THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH STANDARD HAS BEEN MET UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL DIG BY HAND NINE (9) DEEP TEST HOLES PER ACRE OF DISTURBED AREA SUBJECT TO THE SOIL DEPTH AND QUALITY STANDARDS. TEST HOLES SHALL BE EXCAVATED USING ONLY A SHOVEL, AND SOILS SHALL BE INSPECTED VISUALLY AND SHALL BE AT LEAST 50' APART FROM EACH OTHER. THE CONTRACTOR SHALL MEASURE THE DEPTH OF TOPSOIL AND SUBSOIL AND CONFIRM THAT THE POST-CONSTRUCTION CONDITIONS MEET THE STANDARDS FOR DEPTH AND QUALITY.
 - 3.2. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER TURF AREAS. SEE GENERAL NOTES ON SHEET C0.01 FOR SEED MIX.

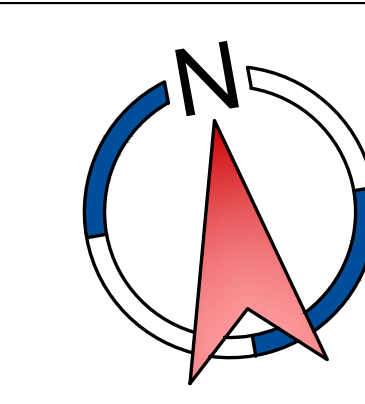


SOIL RESTORATION
NOT TO SCALE

◆ SOIL RESTORATION TEST LOCATION

▨ DISTURBED SOILS SUBJECT TO SOIL RESTORATION STANDARDS





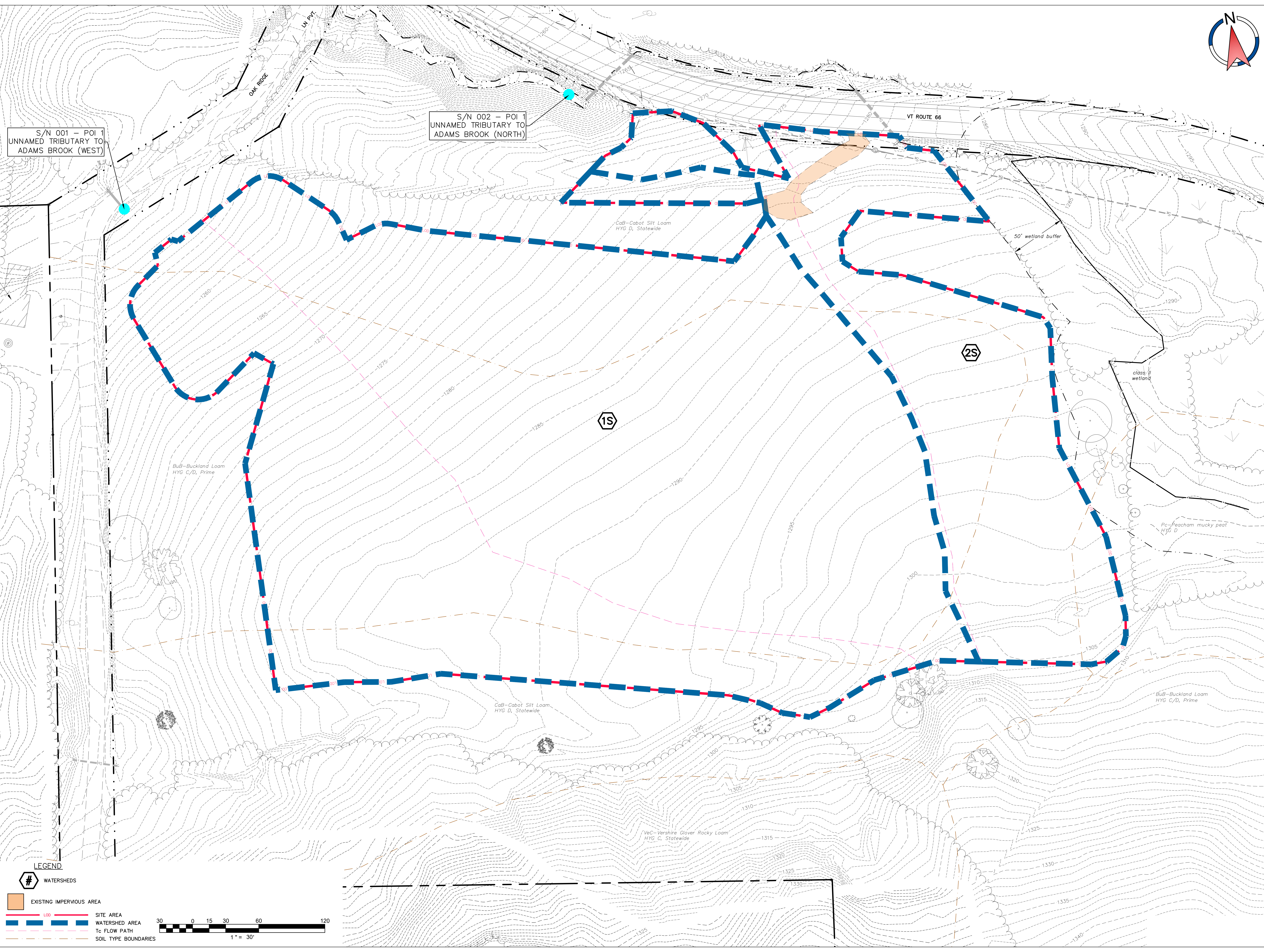
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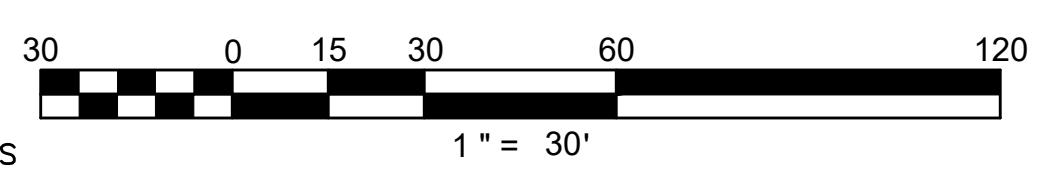


S/N 001 - POI 1
UNNAMED TRIBUTARY TO
ADAMS BROOK (WEST)

S/N 002 - POI 1
UNNAMED TRIBUTARY TO
ADAMS BROOK (NORTH)

LEGEND

- WATERSHEDS
- EXISTING IMPERVIOUS AREA
- SITE AREA
- WATERSHED AREA
- FLOW PATH
- SOIL TYPE BOUNDARIES



Hampton Inn
18-730ND / MPVTHX - ID#55126
VERMONT
RANDOLPH

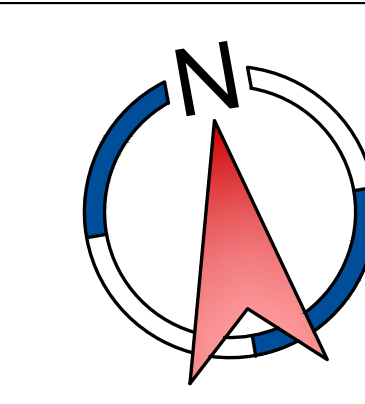
NO.	DATE	REVISION

DATE: October 24, 2018
SCALE: 1" = 30'
PROJECT NO: 2018069
DRAWN BY: RJC
CHECKED BY: BMLK

SHEET TITLE:
Existing Stormwater Plan

SHEET NUMBER:
SW.01

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PERSONS REPRESENTING PLANS
SOILS REVIEWED FOR
CONSTRUCTION

Wiemann
Lamphere



ARCHITECTS

525 Hercules Drive
Suite Two
Colchester, VT 05446
802.655.5020
802.622.6567
wiemannlamphere.com

Civil & Structural Engineers

DeWolfe
ENGINEERING ASSOCIATES

1177 New St., P.O. Box 1076, Weybridge, VT 05691-1076

Hampton Inn
18-730ND / MPVVTHX - ID#551126
RANDOLPH VERMONT

NO.	DATE	REVISION

DATE: October 24, 2018

SCALE: 1" = 30'

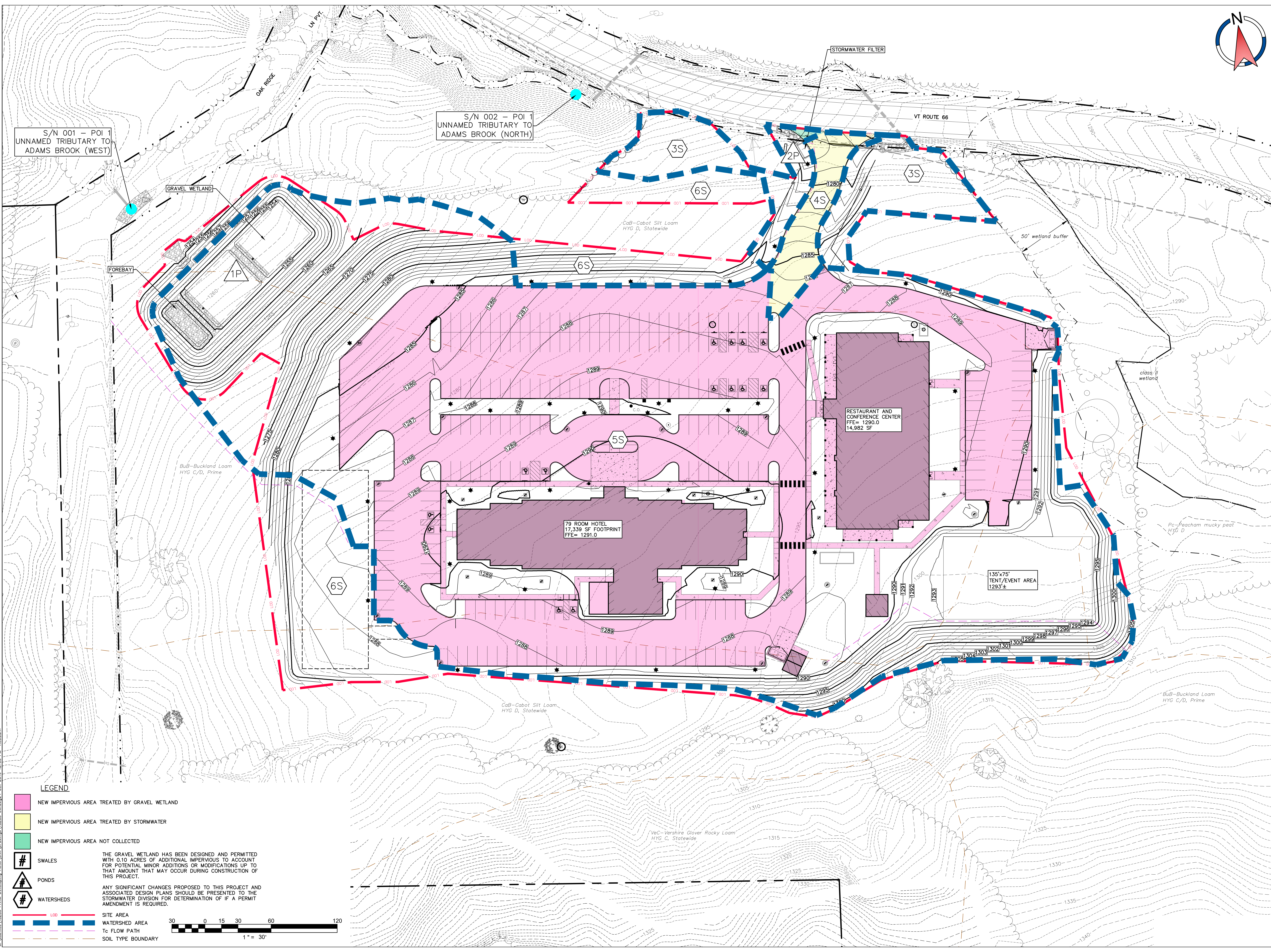
PROJECT NO: 2018069

DRAWN BY: RBC CHECKED BY: BMLK

SHEET TITLE:
Proposed
Stormwater
Plan

SHEET NUMBER:

SW.02



S/N 001 - POI 1
UNNAMED TRIBUTARY TO
ADAMS BROOK (WEST)

S/N 002 - POI 1
UNNAMED TRIBUTARY TO
ADAMS BROOK (NORTH)

STORMWATER FILTER

VT ROUTE 66

GRAVEL WETLAND

FOREBAY

1P

3S

6S

4S

3S

6S

5S

6S

6S

BuB-Buckland Loom
HYG C/D, Prime

Cab-Cabot Silt Loom
HYG D, Statewide

RESTAURANT AND
CONFERENCE CENTER
FFE= 1290.0
14,982 SF

79 ROOM HOTEL
17,339 SF FOOTPRINT
FFE= 1291.0

135'x75'
TENT/EVENT AREA
1293'±

Pc-Peacham mucky peat
HYG D

BuB-Buckland Loom
HYG C/D, Prime

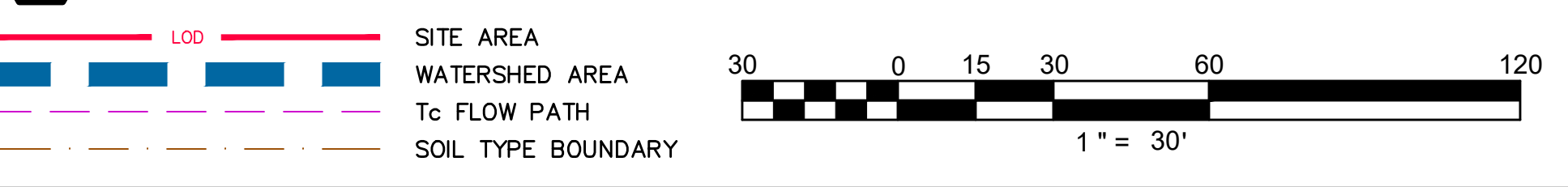
VeC-Vershire Glover Rocky Loom
HYG C, Statewide

LEGEND

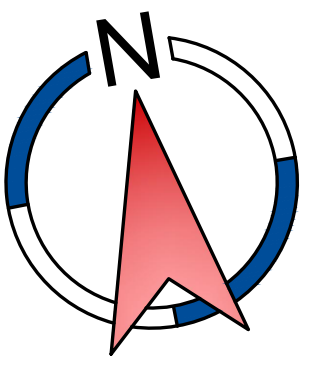
- NEW IMPERVIOUS AREA TREATED BY GRAVEL WETLAND
- NEW IMPERVIOUS AREA TREATED BY STORMWATER
- NEW IMPERVIOUS AREA NOT COLLECTED
- SWALES
- PONDS
- WATERSHEDS

THE GRAVEL WETLAND HAS BEEN DESIGNED AND PERMITTED WITH 0.10 ACRES OF ADDITIONAL IMPERVIOUS TO ACCOUNT FOR POTENTIAL MINOR ADDITIONS OR MODIFICATIONS UP TO THAT AMOUNT THAT MAY OCCUR DURING CONSTRUCTION OF THIS PROJECT.

ANY SIGNIFICANT CHANGES PROPOSED TO THIS PROJECT AND ASSOCIATED DESIGN PLANS SHOULD BE PRESENTED TO THE STORMWATER DIVISION FOR DETERMINATION OF IF A PERMIT AMENDMENT IS REQUIRED.



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PERSONS TO BE DELETED FROM
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CONSTRUCTION



525 Hercules Drive
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wiemannlamphere.com

Civil & Structural Engineers
DeWolfe
ENGINEERING ASSOCIATES
1.800.225.4727 1.800.925.4740 www.dewolfe.com
317 New St., P.O. Box 1576, Montpelier, VT 05601-1576

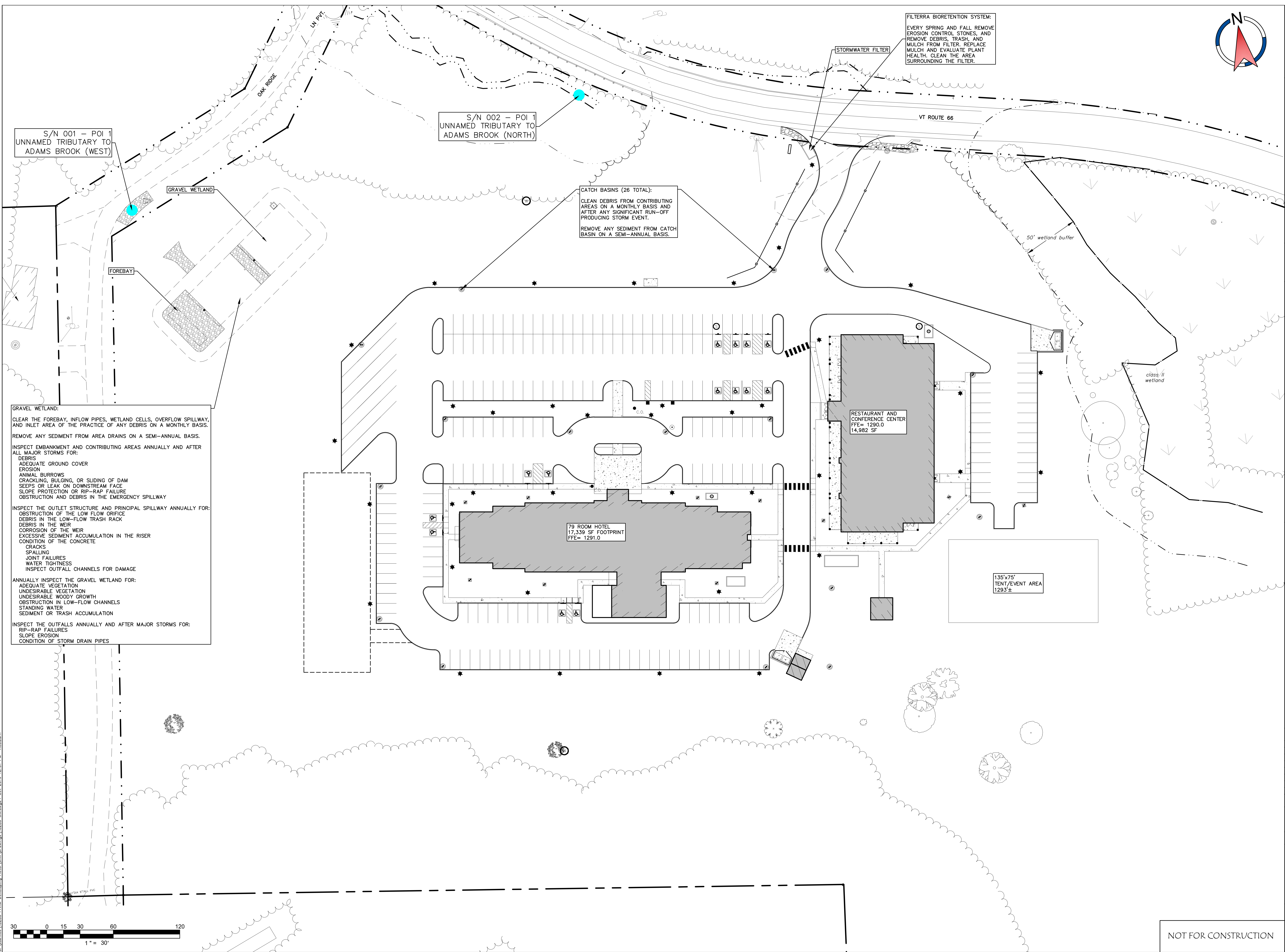
Hampton Inn
18-730ND / MPVVTHX - ID#55126
VERMONT
RANDOLPH

NO.	DATE	REVISION

DATE: October 24, 2018
SCALE: 1" = 30'
PROJECT NO: 2018069

DRAWN BY: RJC
CHECKED BY: BMLK
SHEET TITLE: Stormwater Maintenance Plan

SHEET NUMBER: SW.03



GRAVEL WETLAND:
CLEAR THE FOREBAY, INFLOW PIPES, WETLAND CELLS, OVERFLOW SPILLWAY, AND INLET AREA OF THE PRACTICE OF ANY DEBRIS ON A MONTHLY BASIS.
REMOVE ANY SEDIMENT FROM AREA DRAINS ON A SEMI-ANNUAL BASIS.
INSPECT EMBANKMENT AND CONTRIBUTING AREAS ANNUALLY AND AFTER ALL MAJOR STORMS FOR:
DEBRIS
ADEQUATE GROUND COVER
EROSION
ANIMAL BURROWS
CRACKLING, BULGING, OR SIDDING OF DAM
SEEPS OR LEAK ON DOWNSTREAM FACE
SLOPE PROTECTION OR RIP-RAP FAILURE
OBSTRUCTION AND DEBRIS IN THE EMERGENCY SPILLWAY
INSPECT THE OUTLET STRUCTURE AND PRINCIPAL SPILLWAY ANNUALLY FOR:
OBSTRUCTION OF THE LOW FLOW ORIFICE
DEBRIS IN THE LOW-FLOW TRASH RACK
DEBRIS IN THE WEIR
CORROSION OF THE WEIR
EXCESSIVE SEDIMENT ACCUMULATION IN THE RISER
CONDITION OF THE CONCRETE
CRACKS
SPALLING
JOINT FAILURES
WATER TIGHTNESS
INSPECT OUTFALL CHANNELS FOR DAMAGE
ANNUALLY INSPECT THE GRAVEL WETLAND FOR:
ADEQUATE VEGETATION
UNDESIRABLE VEGETATION
UNDESIRABLE WOODY GROWTH
OBSTRUCTION IN LOW-FLOW CHANNELS
STANDING WATER
SEDIMENT OR TRASH ACCUMULATION
INSPECT THE OUTFALLS ANNUALLY AND AFTER MAJOR STORMS FOR:
RIP-RAP FAILURES
SLOPE EROSION
CONDITION OF STORM DRAIN PIPES

FILTERRA BIORETENTION SYSTEM:
EVERY SPRING AND FALL REMOVE EROSION CONTROL STONES, AND REMOVE DEBRIS, TRASH, AND MULCH FROM FILTER. REPLACE MULCH AND EVALUATE PLANT HEALTH. CLEAN THE AREA SURROUNDING THE FILTER.

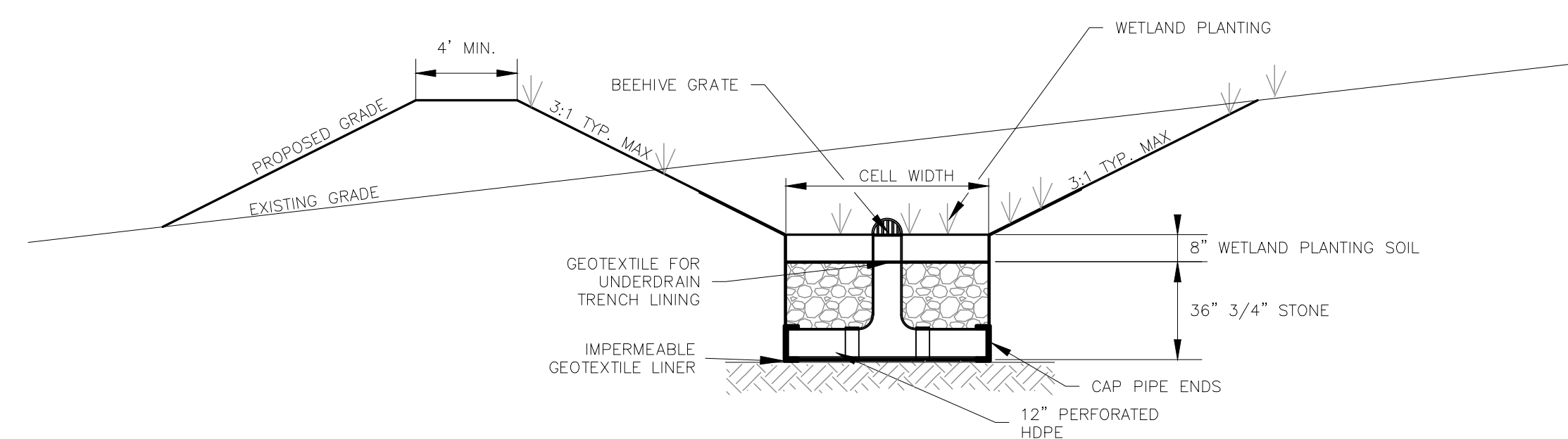
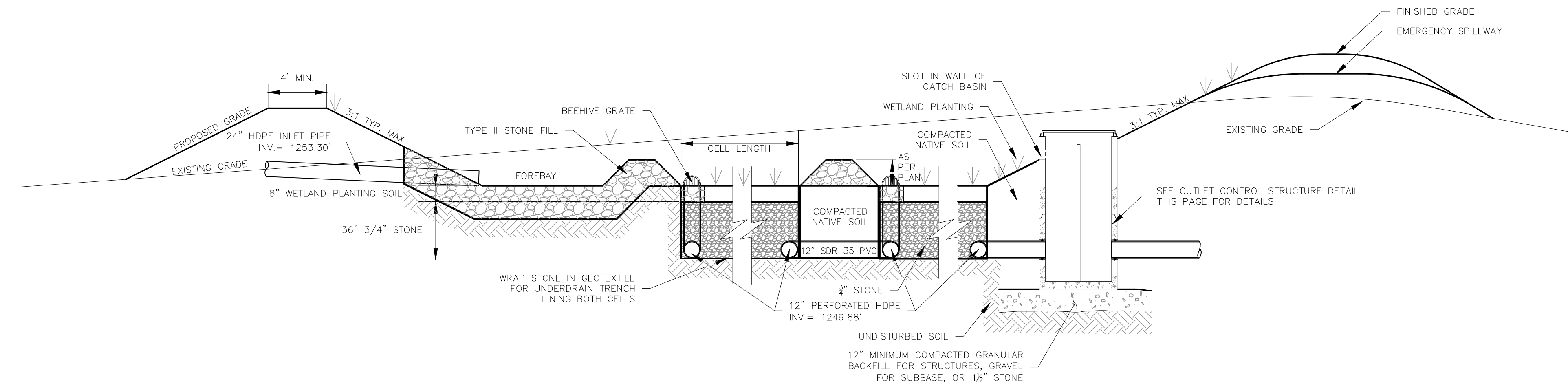
CATCH BASINS (26 TOTAL):
CLEAN DEBRIS FROM CONTRIBUTING AREAS ON A MONTHLY BASIS AND AFTER ANY SIGNIFICANT RUN-OFF PRODUCING STORM EVENT.
REMOVE ANY SEDIMENT FROM CATCH BASIN ON A SEMI-ANNUAL BASIS.

S/N 002 - POI 1
UNNAMED TRIBUTARY TO
ADAMS BROOK (NORTH)

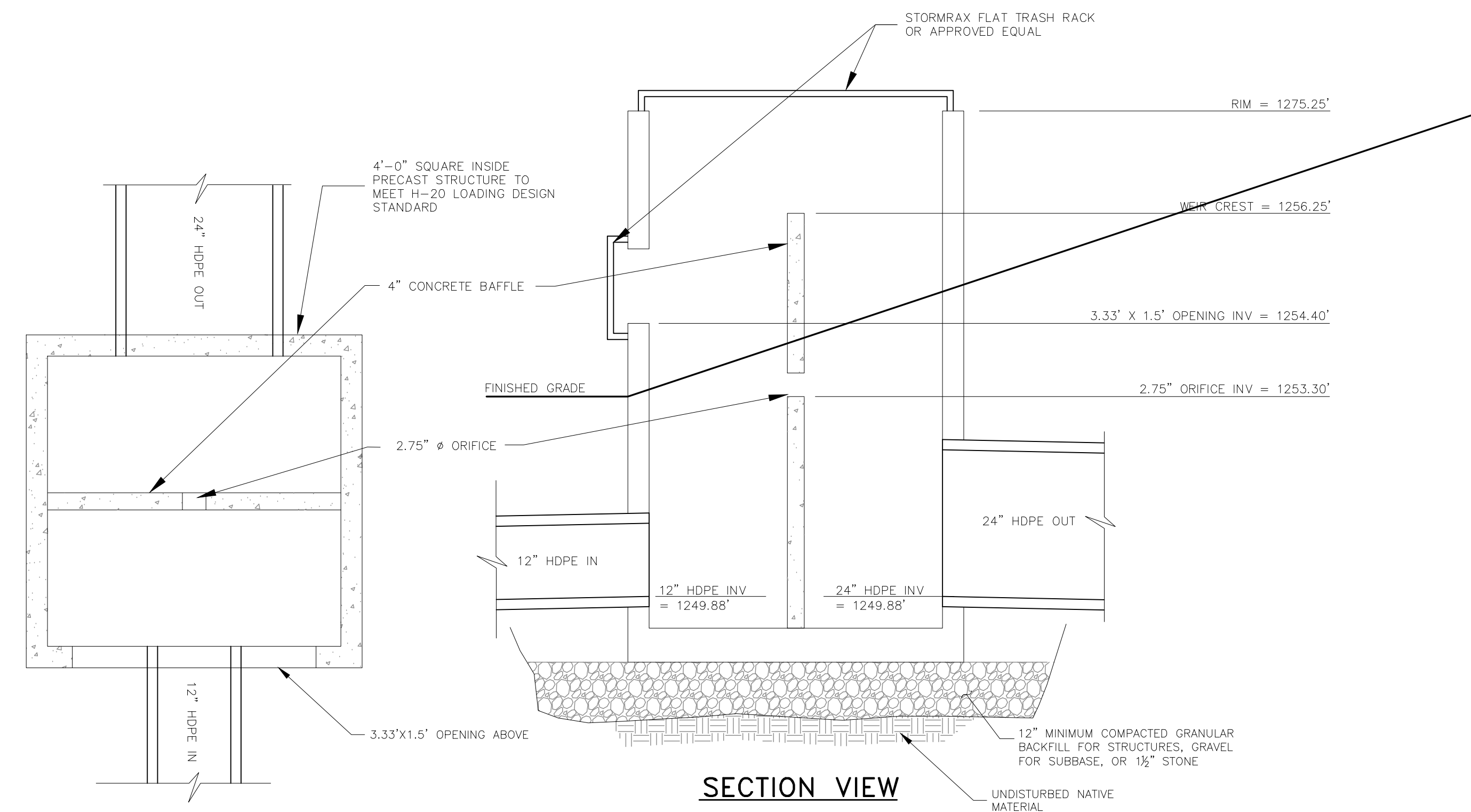
S/N 001 - POI 1
UNNAMED TRIBUTARY TO
ADAMS BROOK (WEST)

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NOT FOR CONSTRUCTION



NOTES:
 1. SEE SHEET C0.01 FOR SEED MIXTURES AND APPROVED PLANT LIST.
 2. SEE PLAN FOR CELL WIDTH AND LENGTH.
TYPICAL GRAVEL WETLAND
 NOT TO SCALE



PLAN VIEW
SECTION VIEW
STORMWATER OUTLET CONTROL STRUCTURE
 NOT TO SCALE

NO.	DATE	REVISION

DATE: October 24, 2018
 SCALE: As Noted
 PROJECT NO: 2018069

DRAWN BY: RJC
 CHECKED BY: BMLK

SHEET TITLE:
 Stormwater Construction Details

SHEET NUMBER:
 SW.04