

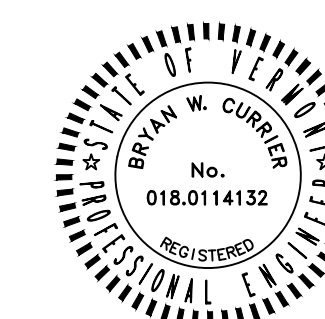
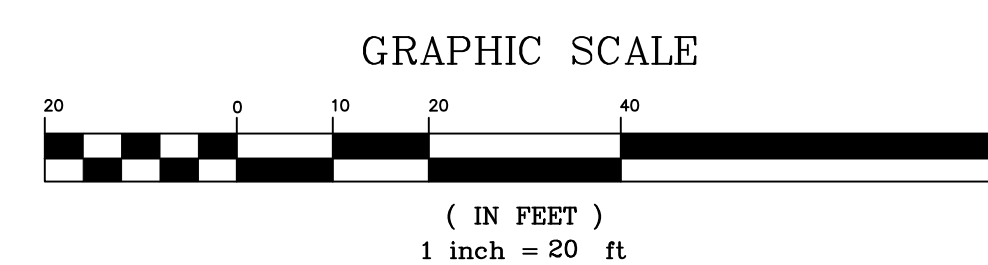
Location Map
Scale: 1" = 500'

Legend

- PROJECT PROPERTY LINE
- ABUTTING PROPERTY LINE
- SETBACK
- SIDELINE OF EASEMENT
- CONTOUR LINE (U.S.G.S. DATUM)
- PROPOSED FINISH GRADE CONTOUR
- EDGE OF WOODED AREA
- CLASS II WETLAND
- 50 FOOT WETLAND BUFFER
- EXISTING SEWERLINE
- PROPOSED SEWER SERVICE
- PROPOSED SEWER FORCE MAIN
- EXISTING WATERLINE
- PROPOSED WATER SERVICE
- EXISTING STORMWATER LINE
- EXISTING OVERHEAD POWER

OWNER/APPLICANT

161 CHEESEMAN, LLC
268 BUCKINGHAM DRIVE
COLCHESTER, VT 05446

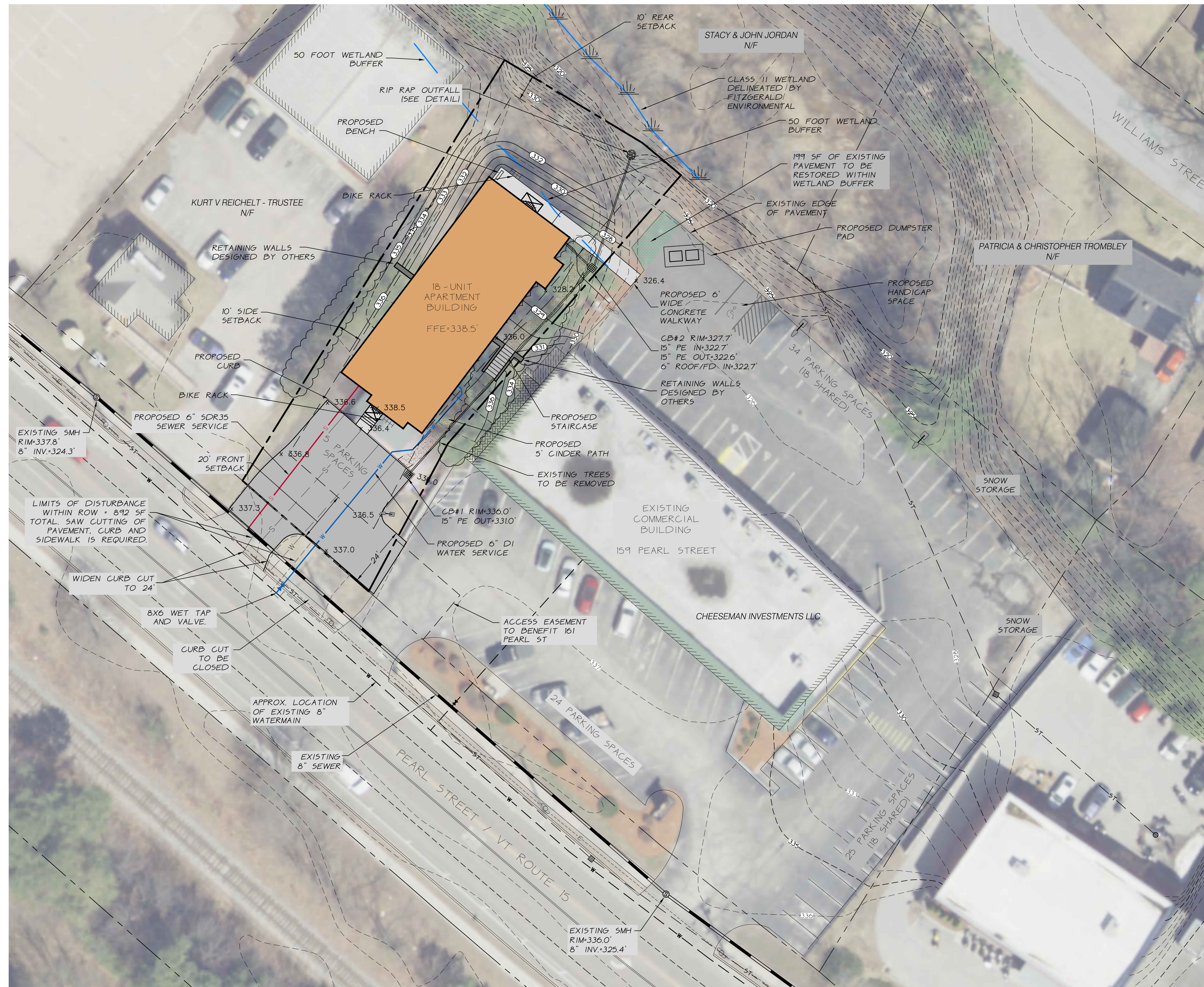
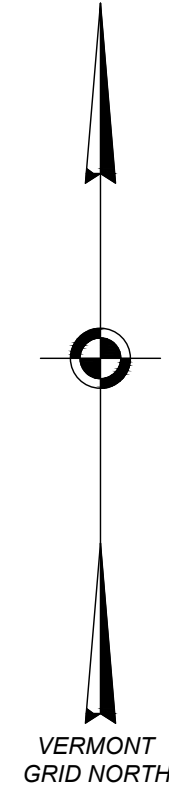


DATE: 3-17-23	REVISION: Revised for Site Plan Application	BY: BWC
SURVEY: OBCA	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE: 9-5-22
DESIGN: OBCA	<input checked="" type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB#: 2021-141
DRAWN: OBCA	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	FILE: 2021-141-SB
CHECKED: BWC	13 CORPORATE DRIVE ESSEX JCT., VT PHONE: 878-9589 FAX: 878-9589 E-MAIL: obca@olearyburke.com	PLAN SHEET #
SCALE: 1"=20'		1

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

161 Pearl Street

Existing Conditions Plan



Location Map
Scale: 1" = 500'

Legend

- PROJECT PROPERTY LINE
- ADJUTING PROPERTY LINE
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- EXISTING WATERLINE
- PROPOSED WATER SERVICE
- EXISTING STORMWATER LINE
- EXISTING OVERHEAD POWER
- PROPOSED LIGHTING

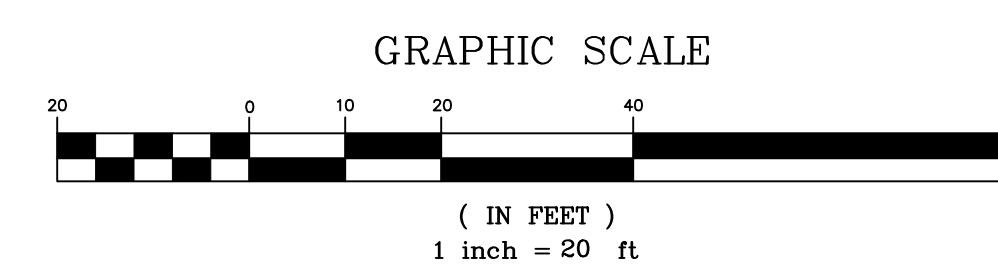
ZONING SUMMARY

ZONING DISTRICT: HIGHWAY-ARTERIAL DISTRICT (HA)
 PARCEL: TAX MAP 40, LOT 89 (I.D.: 1040089000, SPAN: 207-066-13755)
 PROPOSED USE: MULTI-FAMILY DWELLING

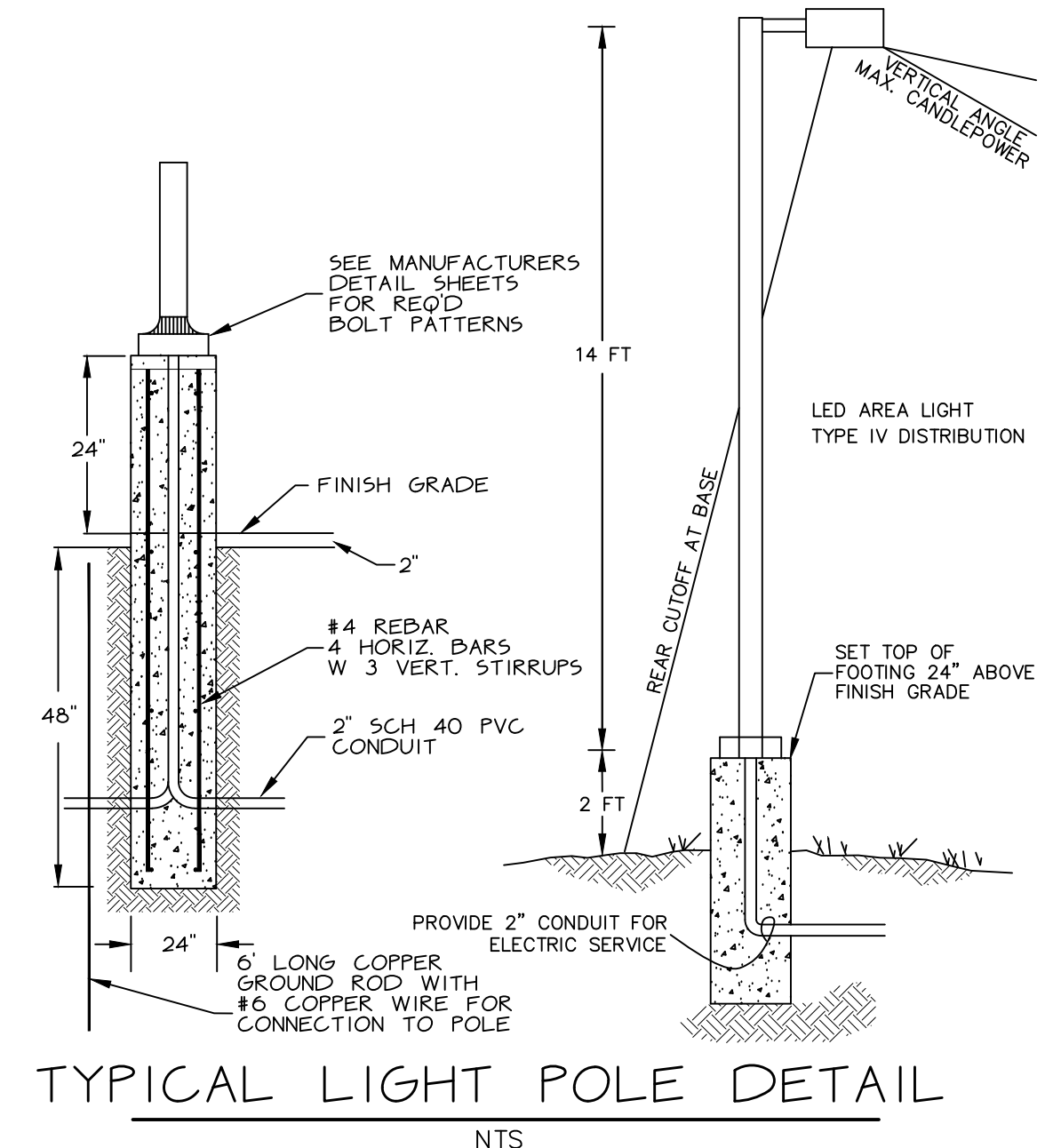
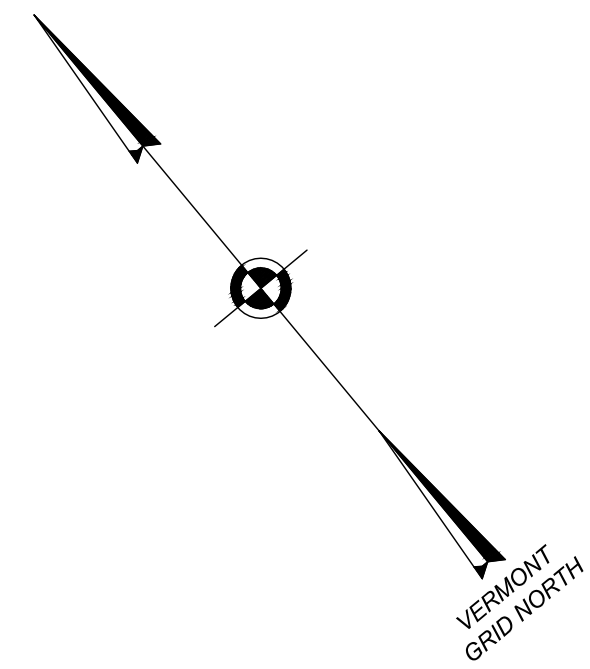
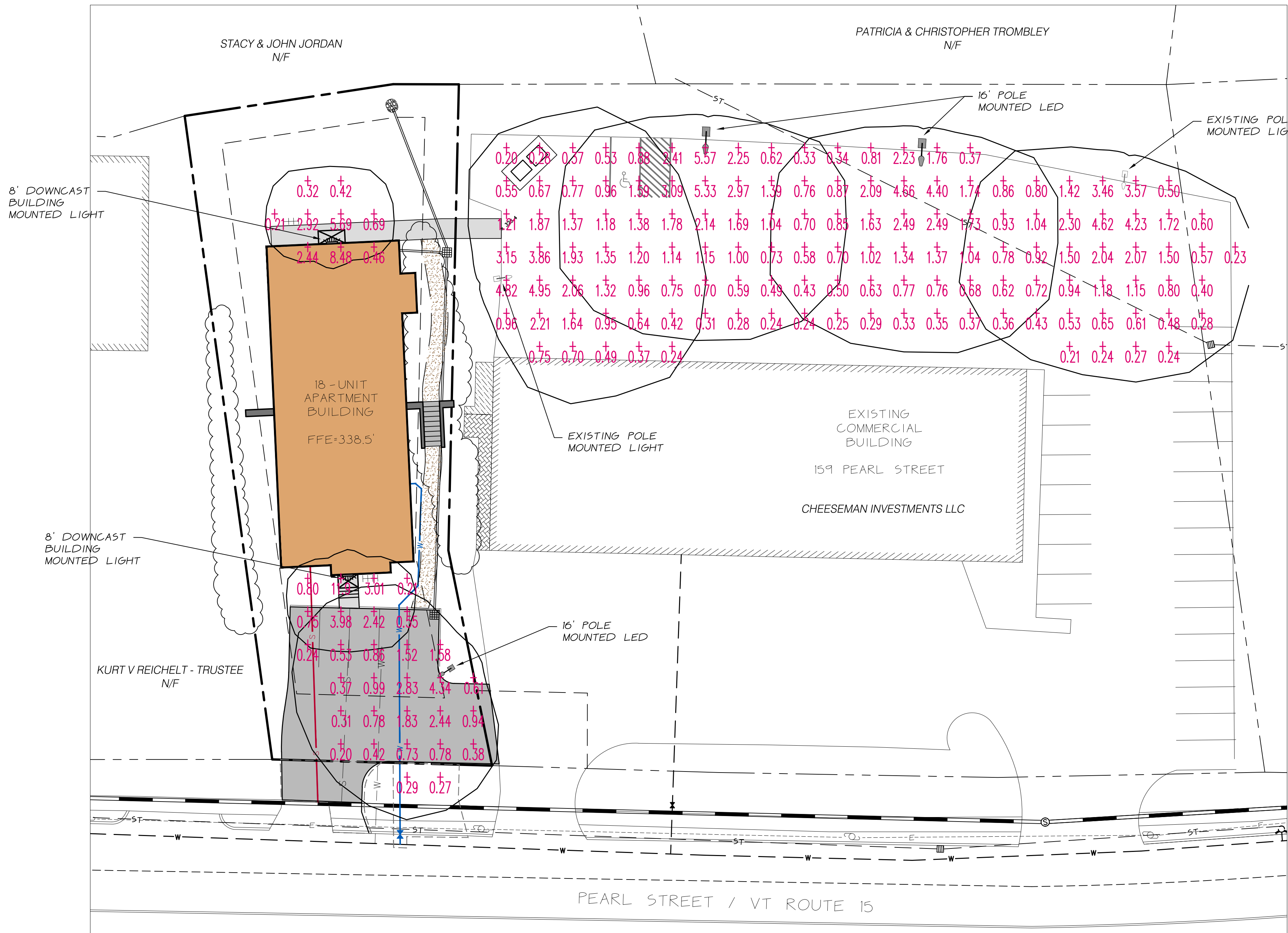
CRITERIA	MINIMUM	PROPOSED
LOT AREA	10,000 SF	14,047 SF (EXISTING)
LOT COVERAGE (MAX)	65%	49%
BUILDING HEIGHT (MAX)	58 FT	< 58 FT
FRONT YARD SETBACK	20 FT	58 FT
SIDE YARD SETBACK	10 FT	10 FT
REAR YARD SETBACK	10 FT	42 FT

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OWNER/APPLICANT
 161 CHEESEMAN, LLC
 268 BUCKINGHAM DRIVE
 COLCHESTER, VT 05446



DATE: 4-26-23	REVISION: Revised for Site Plan Application	BY: BWC
SURVEY: OBCA	RECORD DRAWING	DATE: 9-5-22
DESIGN: OBCA	PRELIMINARY	JOB#: 2021-141
DRAWN: OBCA	SKETCH/CONCEPT	FILE: 2021-141-SB
CHECKED: BWC	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	PLAN SHEET #
SCALE: 1"=20'	13 CORPORATE DRIVE ESSEX JCT., VT PHONE: 878-9589 FAX: 878-9589 E-MAIL: obca@olearyburke.com	161 Pearl Street Pearl Street Essex Jct., Vermont
		Site Plan
		2



CALCULATION SUMMARY						
AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN	MAX/MIN/AVE/MIN
SITE PLAN	338' X 275'	NEW GRID	<+> 1.4	11.9	0.20	59.3 6.9

LUMINAIRE SCHEDULE						
TYP	SYMB	DESCRIPTION	LAMP	LUMENS	MOUNTING	LLF QTY
BLDG	☛	RAB SLIM 12N WALLPACK	12W	2,106	8' BUILDING MOUNT	1.00 2
POLE	☛	RAB ALED 4T 50N	50W	4,559	16' POLE MOUNT	1.00 2
POLE	☛	RAB ALED 26N	26W	2,660	16' POLE MOUNT	1.00 1
POLE	☛	EXISTING POLE MOUNTED LIGHT	40W	4,000	16' POLE MOUNT	1.00 2

SLIM12N RAB

Project: _____ Type: _____

Prepared By: _____ Date: _____

Driver Info

Type	Constant Current	Watts	12W
Input	0.15A	Color Temp	4000K (Recessed)
Output	0.05A	Color Accuracy	70 CRI
Input Voltage	277V	L70 Beam Spread	100/200
Input Power	1.65W	Beam Angle	12.5°

LED Info

Type	SLIM 12N
Watts	12W
Color Temp	4000K (Recessed)
Color Accuracy	70 CRI
L70 Beam Spread	100/200
Beam Angle	12.5°

Technical Specifications

Compliance: Meets or exceeds all applicable codes and standards.

UL Listed: UL Listed for use in wet locations.

IP Rating: IP65 (Ingress Protection).

ADA Compliant: Meets ADA requirements for mounting height and glare.

SLIM 12N Wallpack: Slim design for recessed or surface mounting.

SLIM 12N LED Components: High quality LED components for long life.

SLIM 12N LED Driver: High quality LED driver for long life.

SLIM 12N LED Housing: High quality LED housing for long life.

SLIM 12N LED Lens: High quality LED lens for long life.

SLIM 12N LED Mounting: High quality LED mounting for long life.

SLIM 12N LED Finish: High quality LED finish for long life.

ALED4T50NK RAB

Project: _____ Type: _____

Prepared By: _____ Date: _____

Driver Info

Type	Constant Current	Watts	50W
Input	0.15A	Color Temp	4000K (Recessed)
Output	0.05A	Color Accuracy	70 CRI
Input Voltage	277V	L70 Beam Spread	100/200
Input Power	16.5W	Beam Angle	12.5°

LED Info

Type	ALED 4T 50N
Watts	50W
Color Temp	4000K (Recessed)
Color Accuracy	70 CRI
L70 Beam Spread	100/200
Beam Angle	12.5°

Technical Specifications

Compliance: Meets or exceeds all applicable codes and standards.

UL Listed: UL Listed for use in wet locations.

IP Rating: IP65 (Ingress Protection).

ADA Compliant: Meets ADA requirements for mounting height and glare.

ALED 4T 50N Pole Mount: Pole mount design for long life.

ALED 4T 50N LED Components: High quality LED components for long life.

ALED 4T 50N LED Driver: High quality LED driver for long life.

ALED 4T 50N LED Housing: High quality LED housing for long life.

ALED 4T 50N LED Lens: High quality LED lens for long life.

ALED 4T 50N LED Mounting: High quality LED mounting for long life.

ALED 4T 50N LED Finish: High quality LED finish for long life.

ALED26N RAB

Project: _____ Type: _____

Prepared By: _____ Date: _____

Driver Info

Type	Constant Current	Watts	26W
Input	0.15A	Color Temp	4000K (Recessed)
Output	0.05A	Color Accuracy	70 CRI
Input Voltage	277V	L70 Beam Spread	100/200
Input Power	10.4W	Beam Angle	12.5°

LED Info

Type	ALED 26N
Watts	26W
Color Temp	4000K (Recessed)
Color Accuracy	70 CRI
L70 Beam Spread	100/200
Beam Angle	12.5°

Technical Specifications

Compliance: Meets or exceeds all applicable codes and standards.

UL Listed: UL Listed for use in wet locations.

IP Rating: IP65 (Ingress Protection).

ADA Compliant: Meets ADA requirements for mounting height and glare.

ALED 26N Pole Mount: Pole mount design for long life.

ALED 26N LED Components: High quality LED components for long life.

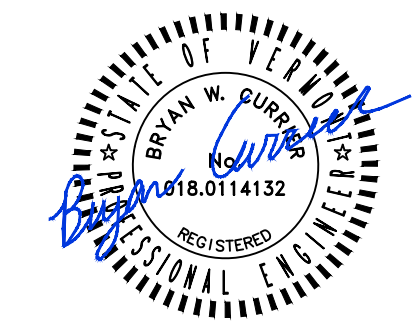
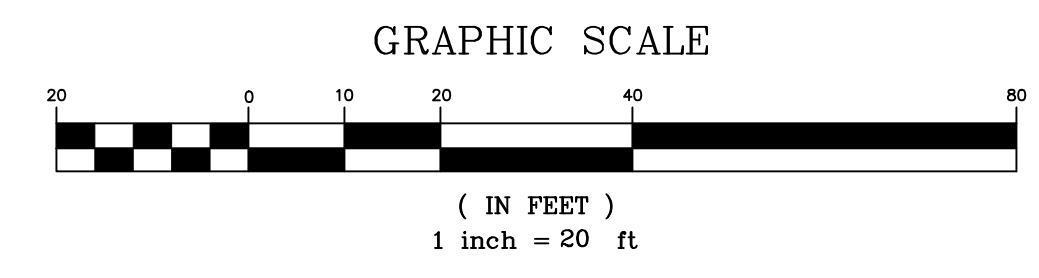
ALED 26N LED Driver: High quality LED driver for long life.

ALED 26N LED Housing: High quality LED housing for long life.

ALED 26N LED Lens: High quality LED lens for long life.

ALED 26N LED Mounting: High quality LED mounting for long life.

ALED 26N LED Finish: High quality LED finish for long life.



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DRAWN: OBCA	<input type="checkbox"/> PRELIMINARY	DATE: 2021-141
CHECKED: BWC	<input type="checkbox"/> SKETCH/CONCEPT	FILE: 2021-141-SB
SCALE: 1"=20'	PLAN SHEET #	

161 Pearl Street

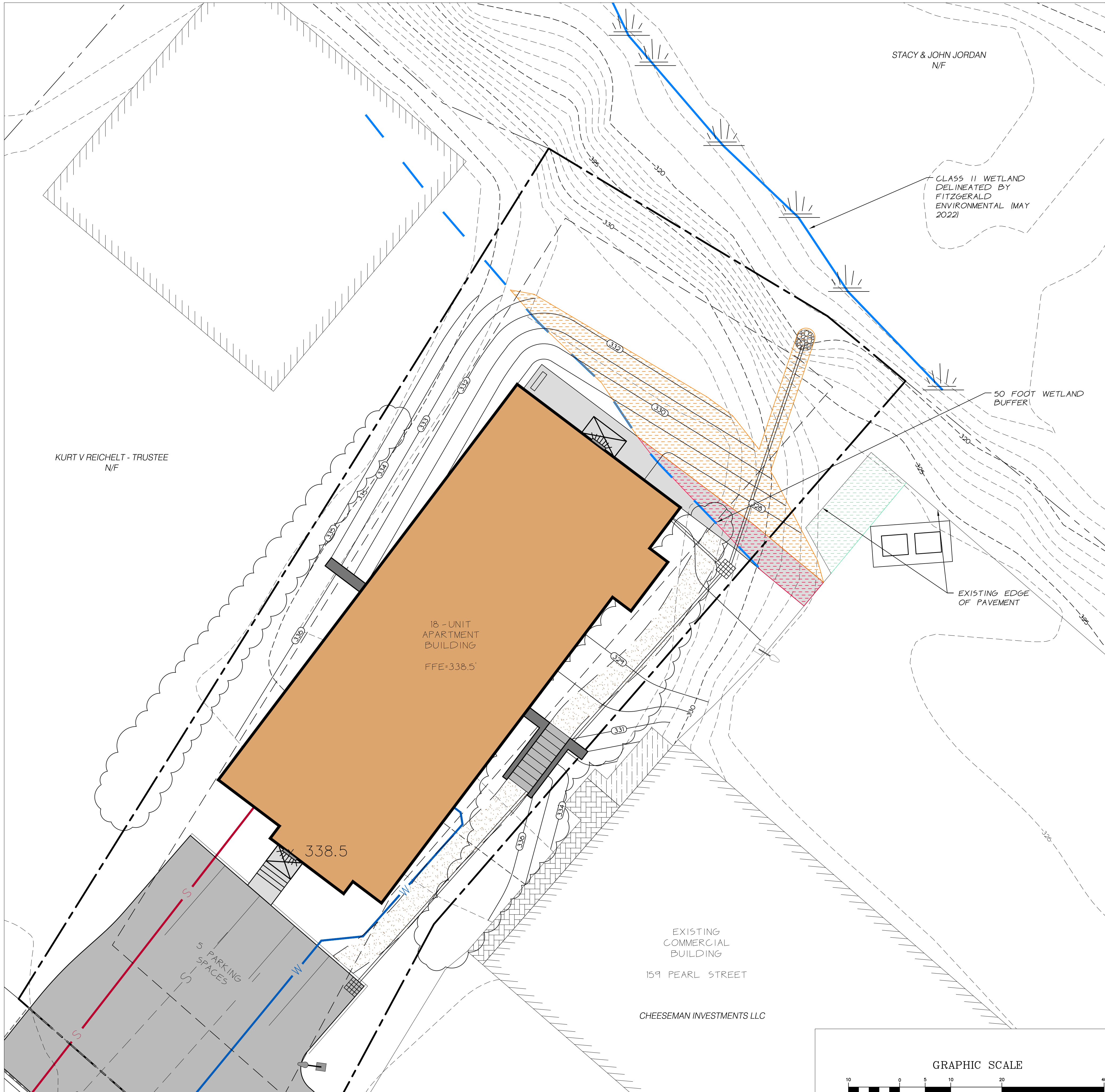
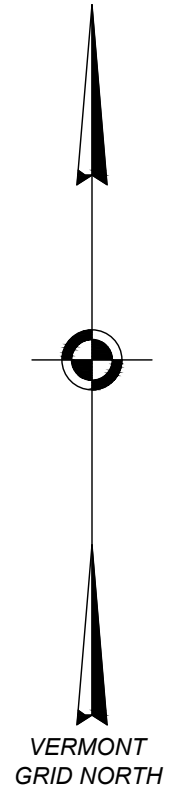
Essex Jct., Vermont

Lighting Plan

O'LEARY-BURKE CIVIL ASSOCIATES, PLC

13 CORPORATE DRIVE
ESSEX JCT., VT
PHONE: 878-9590
FAX: 878-9589
E-MAIL: ocb@olearyburke.com

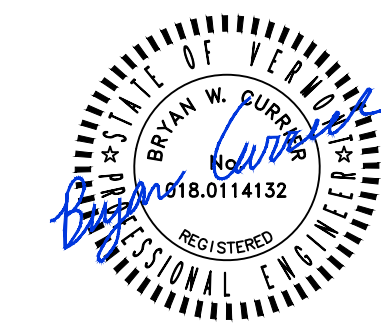
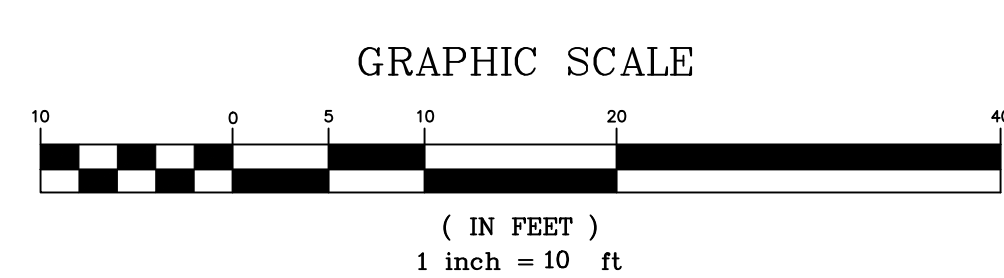
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Legend

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	PROPOSED SEWER FORCE MAIN
	EXISTING WATERLINE
	PROPOSED WATER SERVICE
	EXISTING STORMWATER LINE
	EXISTING OVERHEAD POWER
	PROPOSED LIGHTING
	PROPOSED TEMPORARY BUFFER IMPACTS: 806 SF
	PROPOSED PERMANENT BUFFER IMPACTS: 184 SF
	PROPOSED REMOVAL OF PAVEMENT AND EARTH RESTORATION WITHIN WETLAND BUFFER: 144 SF

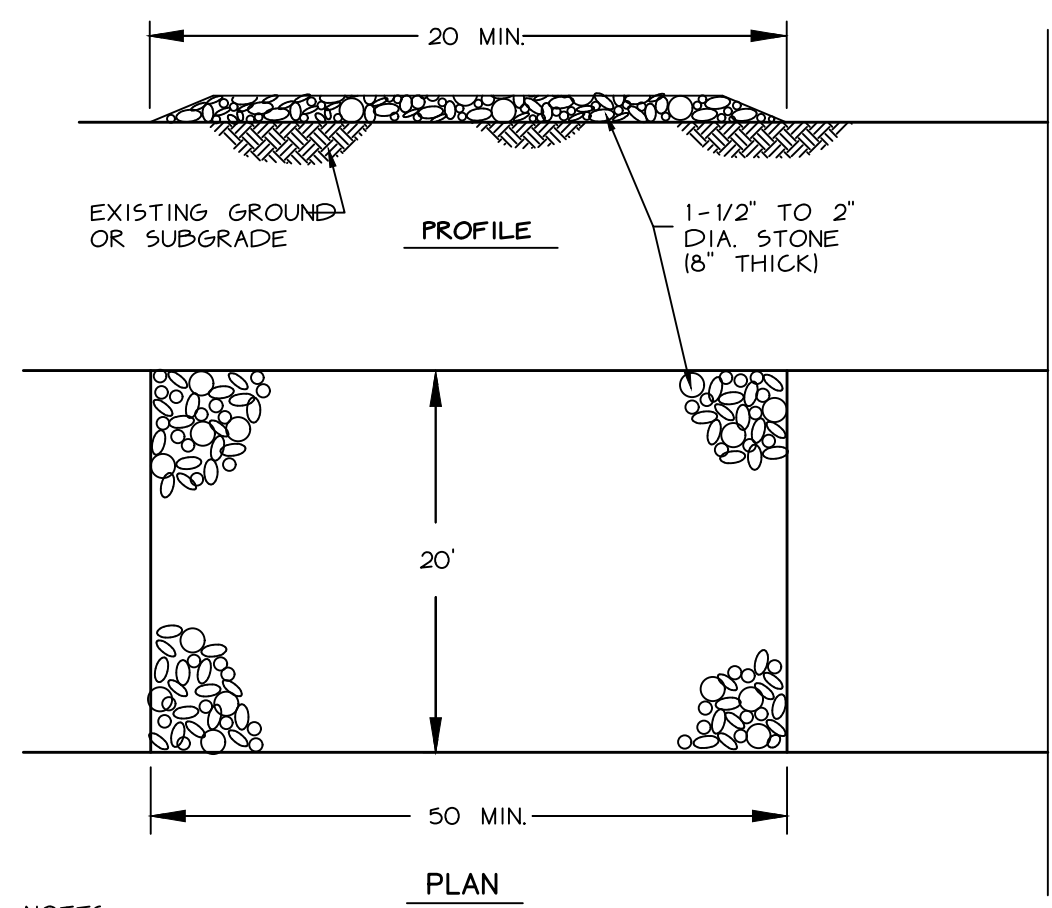
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SCALE: 1"=10'		4

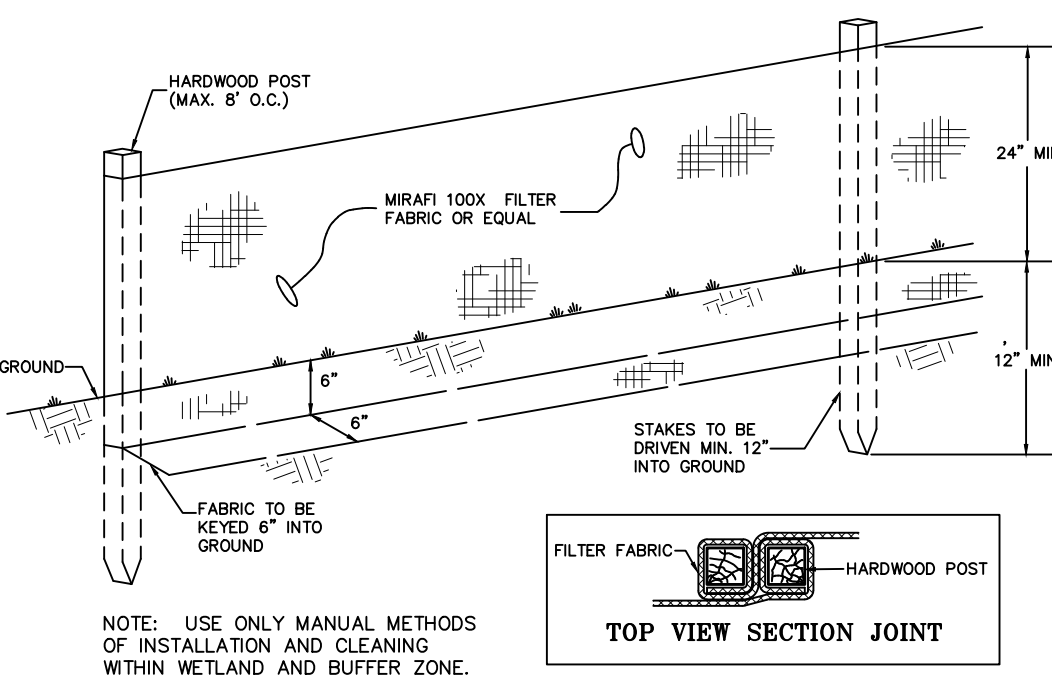
161 Pearl Street

Wetland Impact Plan



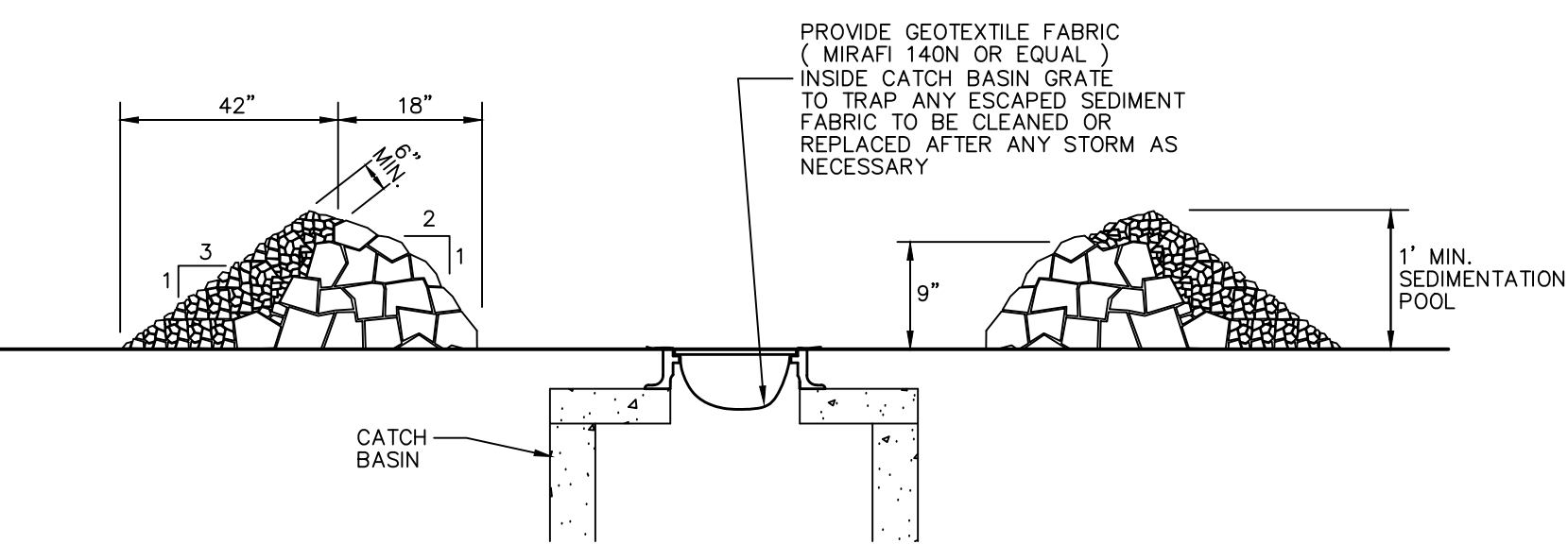
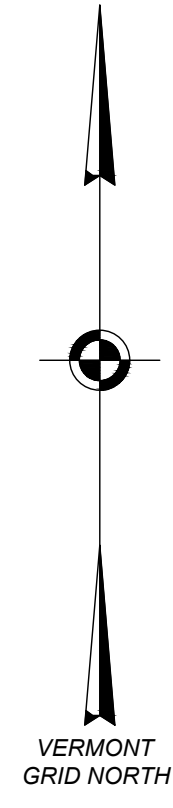
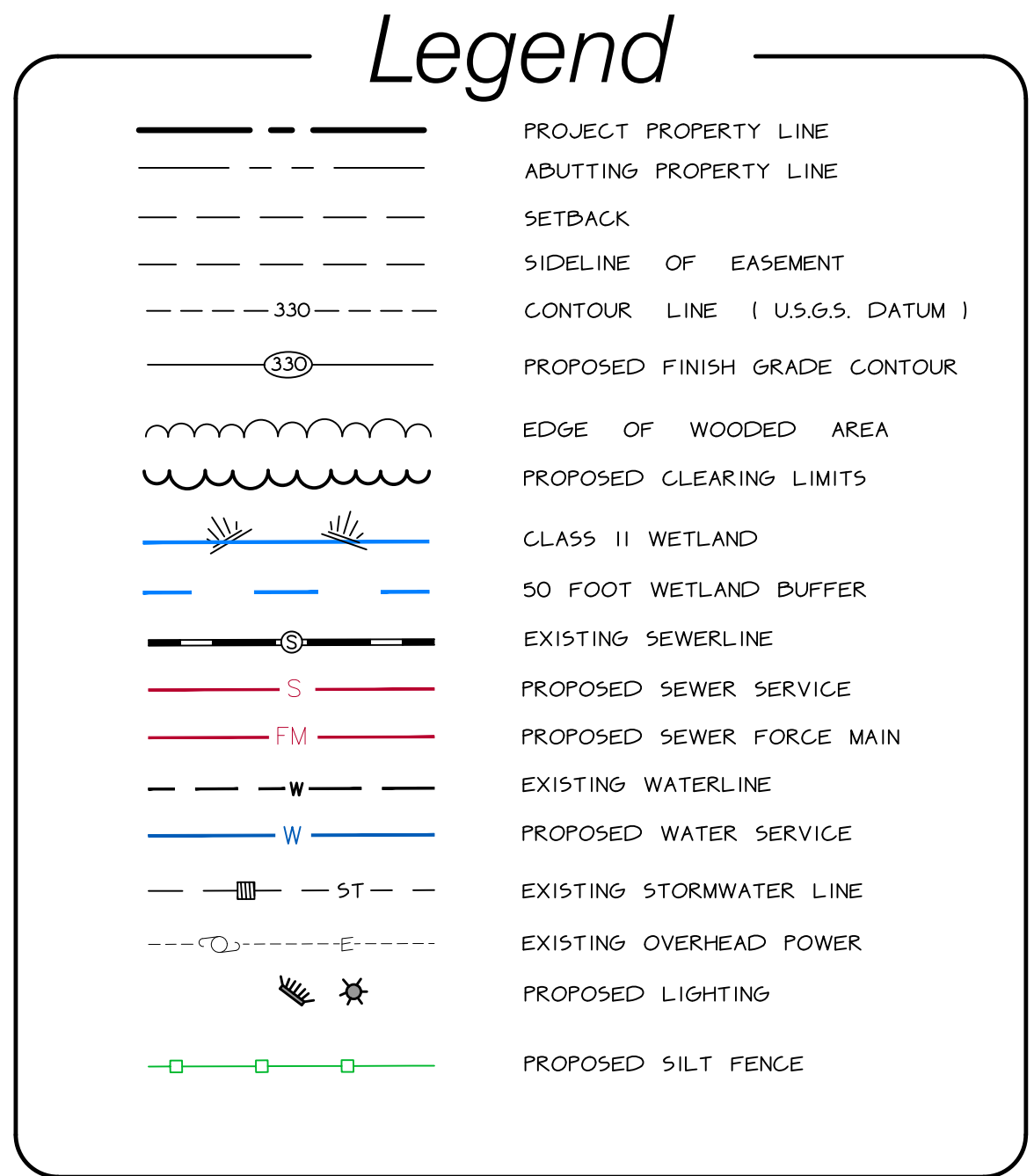
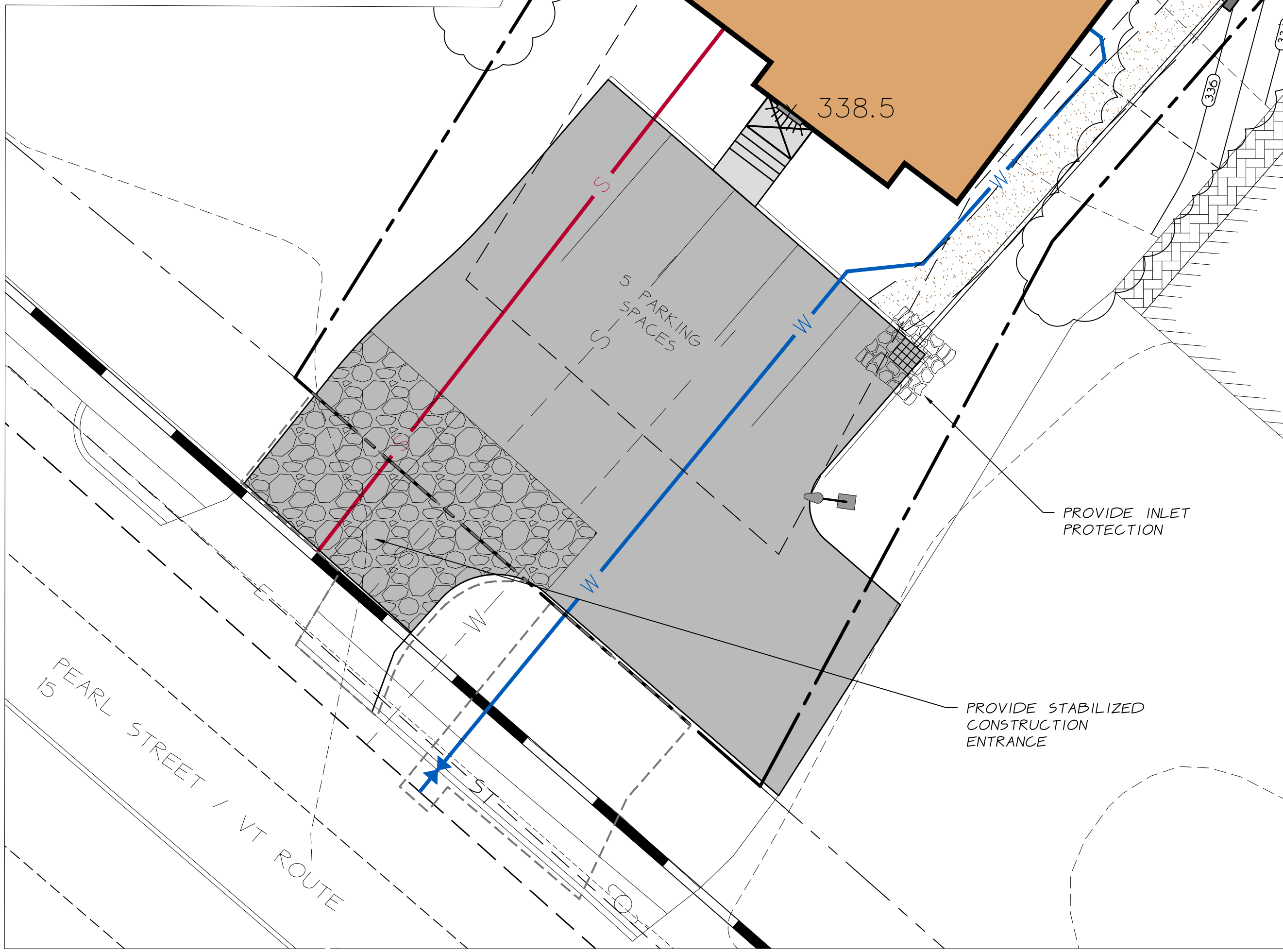
NOTES:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT TRACKED, SPILLED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY BY CONTRACTOR.
 2. THE USE OF CALCIUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL DUST DURING THE SUMMER.
 3. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY.

STABILIZED CONSTRUCTION ENTRANCE



SILT FENCE DETAIL

NT5



INLET PROTECTION

NT5

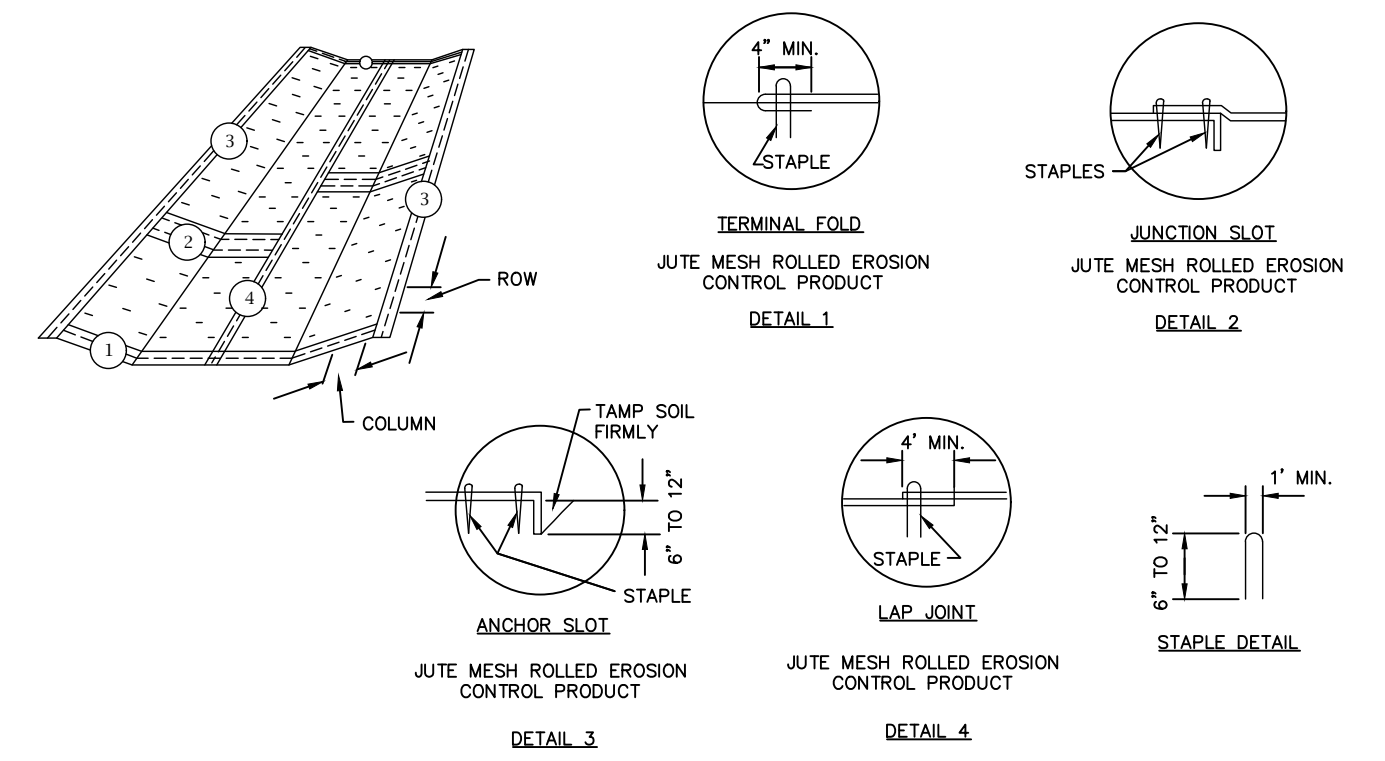
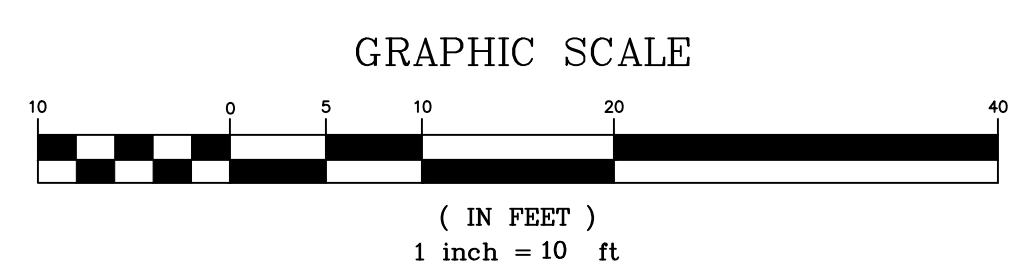
EROSION CONTROL SPECIFICATIONS

- SEE OTHER DRAWINGS OF THESE PLANS FOR ADDITIONAL STORMWATER AND EROSION CONTROL SPECIFICATIONS AND DETAILS.
- THE ROADWAY AND YARD FINISH GRADE SLOPES SHALL NOT BE STEEPER THAN 3 ON 1. THE FINISHED GRADE SLOPES SHALL BE IMMEDIATELY GRADED AND MULCHED.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO SEPTEMBER 15 OF EACH YEAR. ANY DISTURBED AREAS OUTSIDE OF THE ROADWAY SHALL BE IMMEDIATELY SEEDED AND MULCHED WITHIN 15 DAYS.
- THE EROSION CONTROL METHODS USED DURING CONSTRUCTION OF THE DEVELOPMENT SHALL PROCEED IN THE FOLLOWING SEQUENCE:
 - THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCES, INLET PROTECTION AND OTHER EROSION CONTROL MEASURES, IF REQUIRED, AS ORDERED BY THE ENGINEER. THE EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AFTER EVERY RAINFALL UNTIL THE NEW IMPROVEMENTS ARE PAVED AND ALL DISTURBED AREAS HAVE BEEN GRASSED. THE REPAIR OF THE EROSION CONTROL MEASURES WILL INCLUDE REMOVING ANY SEDIMENTATION. THE SEDIMENT MAY BE PLACED AS FILL IN THE LOW AREAS, IF APPROVED BY THE ENGINEER.
 - THE TOPSOIL SHALL BE REMOVED FROM THE AREAS TO BE GRADED AND STOCKPILED. A SILT FENCE SHALL BE PLACED CONTINUOUSLY AROUND THE BOTTOM OF THE PILE.
 - IN AREAS NEAR THE NEW CONSTRUCTION THE CONTRACTOR SHALL PROTECT THE TRUNKS OF TREES TO BE SAVED WITH WOODEN SNOW FENCING ALONG THE DRIFLINE TO PROTECT THEM FROM INJURY. IN THESE PROTECTED AREAS NO CONSTRUCTION ACTIVITIES SHALL OCCUR. NO STORAGE OF MATERIALS, RUNNING OF MACHINERY, PORTO-LETS ETC. PLACE STAY OUT SIGNS. THESE INSTRUCTIONS MUST BE CONVEYED TO THE CONSTRUCTION CREW.
 - THE SITE GRADING WILL THEN BE DONE, AND THE PIPELINES WILL BE INSTALLED IMMEDIATELY FOLLOWING GRADING. THE CONTRACTOR WILL INSTALL AND MAINTAIN INLET PROTECTION AROUND THE CATCH BASINS UNTIL THE ROADWAY HAS BEEN PAVED AND GRASS HAS BEEN ESTABLISHED ON THE SLOPES.
 - THE CONTRACTOR WILL TOPSOIL, SEED, AND MULCH THE DISTURBED AREAS AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ADJACENT CONSTRUCTION.

WINTER GUIDELINES FOR EROSION PREVENTION + SEDIMENT CONTROL (OCTOBER 15-APRIL 15)

- ALL DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- ALL SILT FENCE OR OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE IN PLACE PRIOR TO GROUND FREEZING.
- WHEN MULCH IS REQUIRED FOR STABILIZATION DOUBLE THE STANDARD RATE SHALL BE APPLIED.
- TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
 - PERFORMING DRILLING AND BLASTING WHERE SITE IS IN A DEPRESSION AND STORMWATER IS TRAPPED.
- PRIOR TO STABILIZATION SNOW AND ICE MUST BE REMOVED TO DEPTH OF NO LESS THAN 1 IN.
- ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF BEING BROUGHT TO FINISH GRADE.
- DURING WINTER EROSION MULCH SHALL BE APPLIED AT DOUBLE THE RATE OR NETTING OR OTHER APPROACH SHALL BE USED TO PREVENT REMOVAL BY WIND.

URBAN MIX GRASS SEED		
% BY WEIGHT	LBS. LIVE SEED PER ACRE	TYPE OF SEED
37.5	45	CREeping RED FESCUE
37.25	37.5	KENTUCKY BLUEGRASS
31.25	37.5	WINTER HARDY, PERENNIAL RYE
100	120 # LIVE SEED PER ACRE	



ROLLED EROSION CONTROL PRODUCT

NT5

- CONSTRUCTION SPECIFICATIONS**
- JUTE MESH ROLLED EROSION CONTROL PRODUCT TO BE USED.
 - SPACING: INSTALL REEF EVERY 50' ON SLOPES MORE THAN 4% AND LESS THAN 6% ON SLOPES OF 6% OR MORE. THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
 - STAPLES ARE TO BE PLACED ALTERNATELY IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
 - DISTURBED AREA SHALL BE SMOOTHLY GRADED TO ENSURE CLOSE CONTACT BETWEEN REEF AND GROUND.
 - EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
 - ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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DATE: 4-26-23	REVISION: Revised for Site Plan Application	BY: BWC
SURVEY: OBCA	RECORD DRAWING: [] PRELIMINARY [] SKETCH/CONCEPT	DATE: 9-5-22
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SCALE: 1"=10'		5

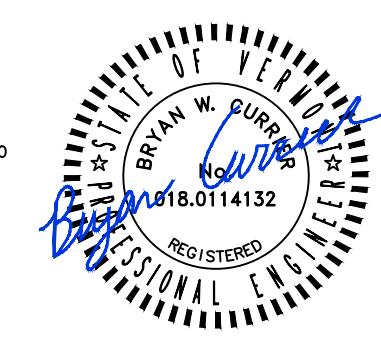
161 Pearl Street

Essex Jct., Vermont

Erosion Prevention & Sediment Control Plan

O'LEARY-BURKE CIVIL ASSOCIATES, PLC

13 CORPORATE DRIVE
 ESSEX JCT., VT
 PHONE: 878-9589
 FAX: 878-9589
 E-MAIL: ocb@olearyburke.com



GENERAL SEWER SPECIFICATIONS

GENERAL:
 THIS ITEM SHALL CONSIST OF THE EXCAVATION AND BACKFILLING REQUIRED FOR THE COMPLETE CONSTRUCTION OF GRAVITY SANITARY SEWERS, FORCE MAINS, AND ALL APPURTENANCE CONSTRUCTION RELATED THEREOF, INCLUDING CHIMNEYS, SERVICE CONNECTIONS, THURST BLOCKS, AND OTHER ITEMS NECESSARY FOR A COMPLETE SANITARY SEWER SYSTEM AS INDICATED ON THE DRAWINGS.

MATERIALS:
A. TYPES OF PIPE
 TYPES OF PIPE WHICH SHALL BE USED FOR THE VARIOUS PARTS OF WORK ARE AS FOLLOWS:
 GRAVITY SEWERS SHALL BE PVC SOLID WALL PIPE MEETING ASTM SPECIFICATIONS D-3034 OR F679.

B. PVC SEWER PIPE
 PVC SEWER PIPE SHALL CONFORM IN ALL RESPECTS TO THE LATEST VERSION OF ASTM SPECIFICATIONS D-3034 OR F679. TYPE P20 POLYVINYLS CHLORIDE (PVC) SEWER PIPE AND FITTINGS, SOCKS, WALL THICKNESS OF ALL PVC SHALL MEET ASTM SPECIFICATIONS FOR SDR35 PIPE. ALL PIPE AND FITTINGS SHALL BE CLEARLY MARKED AS FOLLOWS:

MANUFACTURER'S NAME AND TRADEMARK
 NOMINAL PIPE SIZE
 MATERIAL DESIGNATION 12454C PVC
 LEGEND "TYPE P20 SDR35 PVC SEWER PIPE" OR
 "TYPE 48 PVC SEWER PIPE"
 DESIGNATION ASTM D-3034 OR F679

JOINTS SHALL BE PUSH-ON TYPE USING ELASTOMERIC GASKETS AND SHALL CONFORM TO ASTM D-3212. THE GASKETS SHALL BE FACTORY INSTALLED.
 THE PIPE SHALL BE FURNISHED IN NOMINAL 13 FOOT LENGTHS. SUFFICIENT NUMBERS OF SHORT LENGTHS AND FULL MACHINE FITTINGS SHALL BE PROVIDED FOR USE AT MANHOLES, CHIMNEYS, AND CONNECTIONS. ALL CONNECTIONS WILL REQUIRE THE USE OF MANUFACTURED FITTINGS. FIELD FABRICATED, SADDLE-TYPE CONNECTIONS WILL NOT BE CONSIDERED ACCEPTABLE.

ANY PIPE OR FITTING HAVING A CRACK OR OTHER DEFECT OR WHICH HAS RECEIVED A SEVERE BLOW SHALL BE MARKED REJECTED AND REMOVED AT ONCE FROM THE WORK SITE. ALL FIELD CUTS ARE TO BE MADE WITH SAW AND 90 DEGREE MITER BOX. BEVEL THE CUT END TO THE SAME AS THE FACTORY BEVEL AND REMOVE ALL INTERIOR BURRS, MEASURE AND PLACE A HONING MARK ON THE PIPE BEFORE ASSEMBLING.

THE PIPE INSTALLED UNDER THIS SPECIFICATION SHALL BE INSTALLED SO THAT THE INITIAL DEFLECTION, MEASURED AS DESCRIBED BELOW, SHALL BE LESS THAN FIVE PERCENT (5%).

DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. INVERTS FOR SEWER MANHOLES SHALL BE AS SHOWN ON THE PLANS AND DETAILS. INVERTS SHALL HAVE THE EXACT SHAPE OF THE SEWER TO WHICH THEY ARE CONNECTED, AND ANY CHANGE IN SIZE OR DIRECTION SHALL BE GRADUAL AND EVEN.

THE MANHOLE WATER STOP GASKET AND STAINLESS STEEL CLAMP ASSEMBLY MUST BE APPROVED BY THE ENGINEER PRIOR TO THE INSTALLATION OF ANY PIPE.

THE CONTRACTOR WILL SUBMIT CERTIFICATION THAT THE MATERIALS OF CONSTRUCTION HAVE BEEN SAMPLED, TESTED, AND INSPECTED, AND THAT THEY MEET ALL THE REQUIREMENTS--INCLUDING WALL THICKNESS--IN ACCORDANCE WITH ASTM C-3034 OR ASTM F679 FOR ALL PIPE AND FITTINGS TO BE INCLUDED IN THE PROJECT WORK.

PVC PIPE SHALL NOT BE INSTALLED WHEN THE TEMPERATURE DROPS BELOW 32 DEGREES FAHRENHEIT OR GOES ABOVE 100 DEGREES FAHRENHEIT. DURING COLD WEATHER, THE FLEXIBILITY AND IMPACT RESISTANCE OF PVC PIPE IS REDUCED.

EXTRA CARE IS REQUIRED WHEN HANDLING PVC PIPE DURING COLD WEATHER. PVC PIPE SHALL NOT BE STORED OUTSIDE AND PROTECTED FROM UV RADIATION AND REDUCTION IN PIPE IMPACT STRENGTH WILL OCCUR. CANVAS OR OTHER OPAQUE MATERIAL SHALL BE USED TO COVER PVC PIPE STORED ON-SITE.

COMPACTED BEDDING MATERIAL IS TO BE INSTALLED 6" ABOVE THE TOP OF THE PIPE FOR THE FULL WIDTH OF THE EXCAVATED TRENCH.

E. MANHOLES
 THE CONTRACTOR SHALL CONSTRUCT REINFORCED CONCRETE MANHOLES AND DROP MANHOLES TO THE DIMENSIONS AT THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS. ALL PRECAST REINFORCED CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST VERSION OF THE ASTM SPECIFICATIONS C478. THE EXTERIOR OF THE MANHOLE SHALL BE COATED WITH A WATERPROOF SEALANT.

THE FOOTING SHALL BE CLASS B PRECAST CONCRETE AND SHALL CONFORM TO THE DIMENSIONS INDICATED ON THE PLANS.

SHELVES SHALL BE CONSTRUCTED WITH HARDENED RED SEWER BRICK. ALL BRICK SHALL BE TYPE SS MEETING THE STANDARDS IN ASTM C222. INVERTS FOR SEWER MANHOLES SHALL BE AS SHOWN ON THE PLANS AND DETAILS.

INVERTS SHALL HAVE THE EXACT SHAPE OF THE SEWER TO WHICH THEY ARE CONNECTED, AND ANY CHANGE IN SIZE OR DIRECTION SHALL BE GRADUAL AND EVEN.

ALL CONSTRUCTION OF SEWER MANHOLES MUST BE CARRIED OUT TO ENSURE WATERTIGHT WORK. ANY LEAKS IN MANHOLES SHALL BE CAULKED AND COMPLETELY REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE ENTIRE STRUCTURE SHALL BE REMOVED AND REBUILT. REPAIRS SHALL ONLY BE ALLOWED TO THE EXTERIOR OF THE MANHOLE.

ALL MANHOLES ARE TO BE PROVIDED WITH COPOLYMER POLYPROPYLENE PLASTIC RINGS WITH STEEL REINFORCEMENT TWELVE INCHES (12") ON CENTER. ALL MANHOLES SHALL BE PROVIDED WITH TONGUE, GRAY, CAST IRON MANHOLE FRAMES AND COVERS. ALL IRON CASTINGS SHALL BE THOROUGHLY CLEANED AND THEN COATED WITH HOT COAL TAR BEFORE BEING DELIVERED. FRAMES AND COVERS SHALL BE LEANED TO 266 PIPE C, OR AN APPROVED EQUAL, AND HAVE A MINIMUM WEIGHT OF 400 POUNDS. MANHOLE COVERS SHALL HAVE THE WORD SEWER PRINTED ON THEM.

PRECAST RISERS AND BASES FOR MANHOLES SHALL CONFORM TO ASTM SPECIFICATIONS C-361. THE PIPE OPENING IN THE PRECAST MANHOLE RISER SHALL HAVE A CAST-IN-PLACE FLEXIBLE GASKET OR AN EQUIVALENT SYSTEM FOR PIPE INSTALLATION AS APPROVED BY THE ENGINEER. JOINTS BETWEEN MANHOLE RISERS SHALL BE RUBBER TO RING SEALS OR SOFT BUTYL JOINT SEALS (ROSE FORM).

THE MANHOLE COVER FRAMES SHALL BE SET TO FINAL GRADE ONLY AFTER THE BASE COURSE PAVING HAS BEEN COMPLETED. PRECAST OR CAST-IN-PLACE CONCRETE RISER RINGS SHALL BE USED FOR FRAME ADJUSTMENT; THE USE OF BRICKS IS NOT ALLOWED.

MANHOLES SHALL BE PLACED AT ALL CHANGES IN SLOPE, SIZE, ALIGNMENT OF PIPE, AT THE ENDS OF EACH LINE, AND AT LEAST EVERY 300 FEET.

F. MASONRY
 EACH BRICK SHALL BE WETTED AND COMPLETELY BEDDED IN MORTAR AT ITS BOTTOM, SIDES, AND ENDS IN ONE OPERATION WITH CARE BEING TAKEN TO FILL EVERY JOINT. BRICKWORK SHALL BE WELL-BONDED, AND JOINTS SHALL BE AS CLOSE AS PRACTICABLE. NO BRICK MASONRY SHALL BE LAID IN WATER NOR SHALL ANY WATER BE ALLOWED TO RISE ON OR AROUND ANY BRICK MASONRY UNTIL IT HAS SET AT LEAST 24 HOURS. NO MASONRY SHALL BE LAID IN FREEZING WEATHER.

THE BRICK FOR ORDINARY BRICKWORK SHALL BE COMMON HARD-BURNED CLAY BRICK. ALL BRICK SHALL BE REGULAR AND UNIFORM IN SHAPE AND SIZE WITH FLARE, PARALLEL BEDS, AND FACED. ORDINARY BRICK SHALL CONFORM TO ASTM SPECIFICATION C-32, LATEST VERSION, AND SHALL BE GRADE SS.

BRICK MASONRY SHALL BE LAID IN PORTLAND CEMENT MORTAR COMPOSED OF ONE PART PORTLAND CEMENT AND TWO PARTS OF SAND MEASURED BY VOLUME, TO WHICH NOT MORE THAN TEN POUNDS OF LIME SHALL BE ADDED FOR EACH BAG OF CEMENT. WATER FOR MORTAR SHALL BE CLEAN AND ONLY AN AMOUNT SUFFICIENT TO PRODUCE A WORKABLE MORTAR SHALL BE USED. MORTAR SHALL BE USED WITHIN ONE HOUR FROM THE TIME THE CEMENT WAS ADDED TO THE MIX.

THE SAND FOR MORTAR FOR BRICK MASONRY SHALL BE UNIFORMLY GRADED, CLEAN, SHARP, AND CONTAIN NO GRADES LARGER THAN WILL PASS A ONE-EIGHTH INCH (1/8") MESH SIEVE.

CONSTRUCTION METHODS:
A. EXCAVATION:
 EXCAVATIONS MADE TO A POINT AT LEAST SIX INCHES (6") BELOW THE PIPE INVERT TO ACCOMMODATE THE BEDDING MATERIAL. ALL EXCAVATIONS ARE TO BE KEPT DRY WHILE PIPE IS BEING LAID AND UNTIL EACH JOINT AND PIPE HAS BEEN INSPECTED BY THE ENGINEER AND APPROVAL GIVEN TO COMMENCE BACKFILLING OPERATIONS.

B. LAYING SEWER PIPE:
 THE BELL END OF THE PIPE SHALL FACE UPGRADE AT ALL TIMES AND BE PLACED IN SUCH A POSITION AS TO MAKE THE INVERT EVEN WHEN THE SUCCEEDING SECTION IS INSERTED. WHERE REQUIRED BY AVERAGE GRAVITY CONDITIONS, THE CONTRACTOR SHALL FILL ANY GULLY TO MAKE A SUITABLE BEDDING FOR THE SEWER PIPE. THE FILL SHALL BE PNEUMATICALLY COMPACTED TO A 95 PERCENT DRY DENSITY BY THE SAND-1-B METHOD (A STANDARD PROCTOR) TEST, UPON WHICH THE SIX INCHES (6") OF BEDDING MATERIAL SHALL BE PLACED.
 ANY PIPE WHICH IS NOT LAID TO GRADE AND ALIGNMENT SHALL BE RELIED TO THE SATISFACTION OF THE ENGINEER. THE BEDDING MATERIAL SHALL BE PLACED AND COMPACTED ON EACH SIDE OF THE PIPE TO A HEIGHT OF 6" ABOVE THE TOP OF THE PIPE AND FOR THE FULL WIDTH OF THE EXCAVATED TRENCH AND AS SHOWN ON THE ACCEPTED PLANS.

C. BACKFILL:
 BACKFILL SHALL CONSIST OF APPROVED MATERIAL PLACED IN SIX INCH (6") LAYERS WITH EACH LAYER BEING THOROUGHLY COMPACTED TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE SAND-1-B STANDARD PROCTOR BY MEANS APPROVED BY THE ENGINEER.
 THE BACKFILL SHALL BE BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE FOR ITS FULL LENGTH, WALKING OR WORKING ON THE COMPLETED PIPELINE, EXCEPT AS MAY BE NECESSARY IN TAMPING OR BACKFILLING, SHALL NOT BE PERMITTED UNTIL THE TRENCH HAS BEEN BACKFILLED TO A HEIGHT OF AT LEAST TWO FEET (2') OVER THE TOP OF THE PIPES. DURING CONSTRUCTION, ALL OPENINGS TO THE PIPELINES SHALL BE PROTECTED FROM THE ENTERING OF EARTH OR OTHER MATERIALS.

D. CONCRETE CRADLE AND ENCASEMENT FOR PIPE:
 WHERE REQUIRED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, A CONCRETE CRADLE SHALL BE USED TO BOLSTER AND STRENGTHEN PIPE. WHERE REQUIRED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, CONCRETE ENCASEMENT OR SEWER WILL BE MADE TO PROTECT NEARBY WELLS OR WATERLINES FOR STREAM CROSSINGS OR FOR SIMILAR PURPOSES. CONCRETE WILL BE CLASS B AS DEFINED IN THE VERMONT STANDARDS SPECIFICATIONS FOR CONSTRUCTION, SECTION 501, AND WILL MEET THE REQUIREMENTS OF THAT SECTION.

E. FROST PROTECTION FOR SHALLOW SEWERS:
 SEWERS WITH LESS THAN FIVE AND ONE-HALF FEET (5 1/2') OF COVER OVER THE CROWN OR WHERE INDICATED ON THE PLANS SHALL BE PROTECTED AGAINST FREEZING BY INSTALLATION OF TWO, 2" THICK (4" TOTAL) STYROFOAM INSULATING SHEETS WITH A TOTAL WIDTH OF FOUR FEET (4') OVER THE PIPE. THE SHEETS, WHICHEVER IS GREATER, SHALL BE LAYED SIX INCHES (6") ABOVE THE PIPE. CARE SHALL BE EXERCISED BY THE CONTRACTOR DURING BACKFILL AND COMPACTON OVER THE STYROFOAM SHEETS SHALL MEET THE COMPRESSIVE STRENGTH REQUIREMENTS OF ASTM D1621-73 AND SHALL BE AS MANUFACTURED BY DOW CHEMICAL COMPANY, MIDLAND, MICHIGAN, OR EQUIVALENT IN NO CASE SHALL THE SEWER LINES HAVE LESS THAN FOUR (4") FEET OF COVER OVER THE TOP OF THE PIPE.

F. LEAKAGE TESTS AND ALLOWANCES FOR GRAVITY SEWERS:
 THE LOW PRESSURE AIR TEST WILL BE USED TO SIMULATE INFILTRATION OR EXFILTRATION RATES INTO OR OUT OF ALL GRAVITY SEWERS. THE CONTRACTOR WILL FURNISH ALL FACILITIES AND PERSONNEL FOR CONDUCTING THE TEST.
 FINAL ACCEPTANCE OF THE SEWER SHALL DEPEND UPON THE SATISFACTORY PERFORMANCE OF THE SEWER UNDER TEST CONDITIONS. THE TEST SHALL BE PERFORMED ON PIPE BETWEEN ADJACENT MANHOLES AFTER BACKFILLING HAS BEEN COMPLETED AND COMPACTED.
 ALL WYES, TEES, LATERALS, OR END-OF-SIDE SEWER STUBS SHALL BE PLUGGED WITH FLEXIBLE-JOINT CAPS, OR AN ACCEPTABLE ALTERNATE, WHICH IS TESTED TO WITHSTAND THE INTERNAL TEST PRESSURE. SUCH PLUGS OR CAPS SHALL BE READILY REMOVABLE, AND THEIR REMOVAL SHALL PROVIDE A SOCKET SUITABLE FOR MAKING A FLEXIBLE-JOINTED LATERAL CONNECTION OR EXTENSION.

PRIOR TO TESTING FOR ACCEPTANCE, THE PIPE SHOULD BE CLEANED BY PASSING THROUGH THE PIPE A FULL GAUGE SQUEEGE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE PIPE CLEANED. IMMEDIATELY FOLLOWING THE PIPE CLEANING, THE PIPE INSTALLATION SHALL BE TESTED WITH LOW-PRESSURE AIR.

AIR SHALL BE SLOWLY SUPPLIED TO THE PLUGGED AIR INSTALLATION UNTIL THE INTERNAL AIR PRESSURE REACHES FOUR POUNDS PER SQUARE INCH (4.0 PSI) GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY SUBMERGE THE PIPE. AT LEAST TWO MINUTES SHALL BE ALLOWED FOR TEMPERATURE STABILIZATION BEFORE PROCEEDING FURTHER.
 THE PIPELINE SHALL BE CONSIDERED ACCEPTABLE WHEN TESTED AT AN AVERAGE PRESSURE OF THREE POUNDS PER SQUARE INCH (3.0 PSI) GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY SUBMERGE THE PIPE IF:

1. THE TOTAL RATE OF AIR LOSS FROM ANY SECTION TESTED IN ITS ENTIRETY BETWEEN MANHOLE AND CLEANOUT STRUCTURES DOES NOT EXCEED 2.0 CUBIC FEET PER MINUTE; OR
2. THE SECTION UNDER TEST DOES NOT LOSE AIR AT A RATE GREATER THAN 0.0030 CUBIC FEET PER MINUTE PER SQUARE FOOT OF INTERNAL PIPE SURFACE.

THE REQUIREMENTS OF THIS SPECIFICATION SHALL BE CONSIDERED SATISFIED IF THE TIME REQUIRED IN SECONDS FOR THE PRESSURE TO DECREASE FROM 3.0 OR 2.5 PSI GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY SUBMERGE THE PIPE IS NOT LESS THAN THAT COMPUTED ACCORDING TO THE FOLLOWING TABLE:

MINIMUM TEST TIME FOR VARIOUS PIPE SIZES		
NOMINAL PIPE SIZE (INCHES)	TIME (MIN/100 FT.)	
3	0.2	
4	0.3	
6	0.7	
8	1.2	
10	1.6	
12	1.8	
15	2.1	
18	2.3	
24	3.6	
30	4.4	
36	5.2	
42	6.6	
	7.3	

THE TABLE GIVES THE REQUIRED TEST TIME IN MINUTES PER 100 FOOT LENGTHS OF PIPE FOR A GIVEN DIAMETER. IF THERE IS MORE THAN ONE PIPE SIZE IN THE SECTION OF LINE BEING TESTED, COMPUTE THE TIME FOR EACH DIAMETER, AND SUM THE TIMES TO FIND THE TOTAL REQUIRED TEST TIME.

IF THE PIPE INSTALLATION FAILS TO MEET THESE REQUIREMENTS, THE CONTRACTOR SHALL DETERMINE AT HIS OR HER OWN EXPENSE THE SOURCE OR SOURCES OF LEAKAGE AND SHALL REPAIR OF THE EXTENT AND TYPE OF REPAIRS PROPOSED BY THE CONTRACTOR APPEAR REASONABLE TO THE ENGINEER OR REPLACE ALL DEFECTIVE MATERIALS OR WORKMANSHIP. THE COMPLETED PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF THIS TEST BEFORE BEING CONSIDERED ACCEPTABLE.

SINCE THIS TEST DOES NOT DETERMINE THE TIGHTNESS OF MANHOLES, THEY SHALL BE TESTED SEPARATELY. THE EXFILTRATION LEAKAGE ALLOWANCE OUT OF MANHOLES SHALL BE NO GREATER THAN ONE GALLON PER DAY PER VERTICAL FOOT TO DEPTH. THE MANHOLE SHALL BE FILLED WITH WATER TO A POINT ONE FOOT (1') ABOVE THE HIGHEST POINT BETWEEN MANHOLE SECTIONS. IN AREAS OF HIGH GROUNDWATER, THERE SHALL BE NO VISIBLE LEAKAGE DUE TO INFILTRATION. IF A VACUUM TEST IS DESIRED, THE FOLLOWING PROCEDURE SHALL BE FOLLOWED: THIS PREFERRED METHOD OF TESTING MANHOLES FOR LEAKAGE INVOLVES THE USE OF A DEVICE FOR SEALING THE TOP OF THE MANHOLE ONE SECTION AND PUMPING AIR OUT OF THE MANHOLE, CREATING A VACUUM AND HOLDING THIS VACUUM FOR A PRESCRIBED PERIOD OF TIME.

1. ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. THE COMPLETED MANHOLE SHALL NOT BE BACKFILLED PRIOR TO TESTING. MANHOLES WHICH HAVE BEEN BACKFILLED SHALL BE EXCAVATED TO EXPOSE THE ENTIRE EXTERIOR PRIOR TO VACUUM TESTING OR THE MANHOLE SHALL BE TESTED FOR LEAKAGE BY MEANS OF A HYDROSTATIC TEST. REPAIRS SHALL ONLY BE MADE TO THE EXTERIOR OF THE MANHOLE.

2. ALL PIPE AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED IN A MANNER TO PREVENT DISPLACEMENT.

3. A PLATE WITH AN INFLATABLE RUBBER RING THE SIZE OF THE TOP OF THE MANHOLE SHALL BE INSTALLED BY INFLATING THE RING WITH AIR TO PRESSURE ADEQUATE TO PREVENT LEAKAGE OF AIR BETWEEN THE RUBBER RING AND MANHOLE WALL.

4. AIR SHALL THEN BE PUMPED OUT OF THE MANHOLE THROUGH AN OPENING IN THE PLATE UNTIL A VACUUM IS CREATED INSIDE OF THE MANHOLE EQUAL TO TEN INCHES (10") OF MERCURY ON AN APPROVED VACUUM GAUGE. THE REMOVAL OF AIR SHALL THEN BE STOPPED AND THE TEST TIME BEGUN.

5. THE VACUUM MUST NOT DROP TO BELOW NINE INCHES (9") OF MERCURY WITH A TWO MINUTE TEST PERIOD. IF MORE THAN ONE INCH (1") DROP IN VACUUM OCCURS WITHIN THE TWO MINUTE TEST PERIOD, THE MANHOLE HAS FAILED AND SHALL BE REPAIRED OR RECONSTRUCTED AND THEN RETESTED.

6. FOLLOWING SATISFACTORY TEST RESULTS, THE MANHOLE MAY BE BACKFILLED.

IT IS NOTED THAT ALL EXISTING SANITARY SEWERS SHALL BE KEPT OPERATIONAL UNTIL NEW WORK HAS BEEN TESTED AND APPROVED BY THE ENGINEER. AT SUCH TIME, EXISTING SEWERS AND SEWER SERVICES SHALL BE CONNECTED TO THE NEW SEWERS.

G. LEAKAGE AND PRESSURE TESTING FOR FORCE MAIN
 ALL PIPELINES SHALL BE TESTED IN ACCORDANCE WITH THE VERMONT DEPARTMENT OF WATER RESOURCES ENVIRONMENTAL PROTECTION RULES, LATEST EDITION. A LEAKAGE AND PRESSURE TEST SHALL BE PERFORMED CONCURRENTLY.

THE HYDROSTATIC TEST PRESSURE SHALL BE A MINIMUM OF 50 PSI AT THE HIGHEST POINT ALONG THE TEST SECTION AND SHALL NOT VARY BY MORE THAN FIVE PSI DURING THE ENTIRE TWO HOUR TEST. IF AND WHEN DURING THE TEST THE PRESSURE DROPS BY FIVE PSI, THE QUANTITY OF WATER REQUIRED TO RESTORE THE TEST PRESSURE SHALL BE MEASURED.

AT THE END OF THE TWO HOUR TEST, THE PRESSURE SHALL BE RETURNED TO THE TEST PRESSURE AND THE ADDITIONAL VOLUME OF WATER MEASURED. THE TOTAL AMOUNT OF WATER USED DURING AND AT THE END OF THE TEST SHALL CONSTITUTE THE ACTUAL LEAKAGE. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$L = \{(N)(D)(P)\} / 7,400$$

WHERE:

- L = LEAKAGE IN GALLONS PER HOUR
- N = NUMBER OF JOINTS IN PIPELINE TESTED
- D = NOMINAL DIAMETER OF PIPE, IN INCHES
- P = AVERAGE TEST PRESSURE, IN PSI

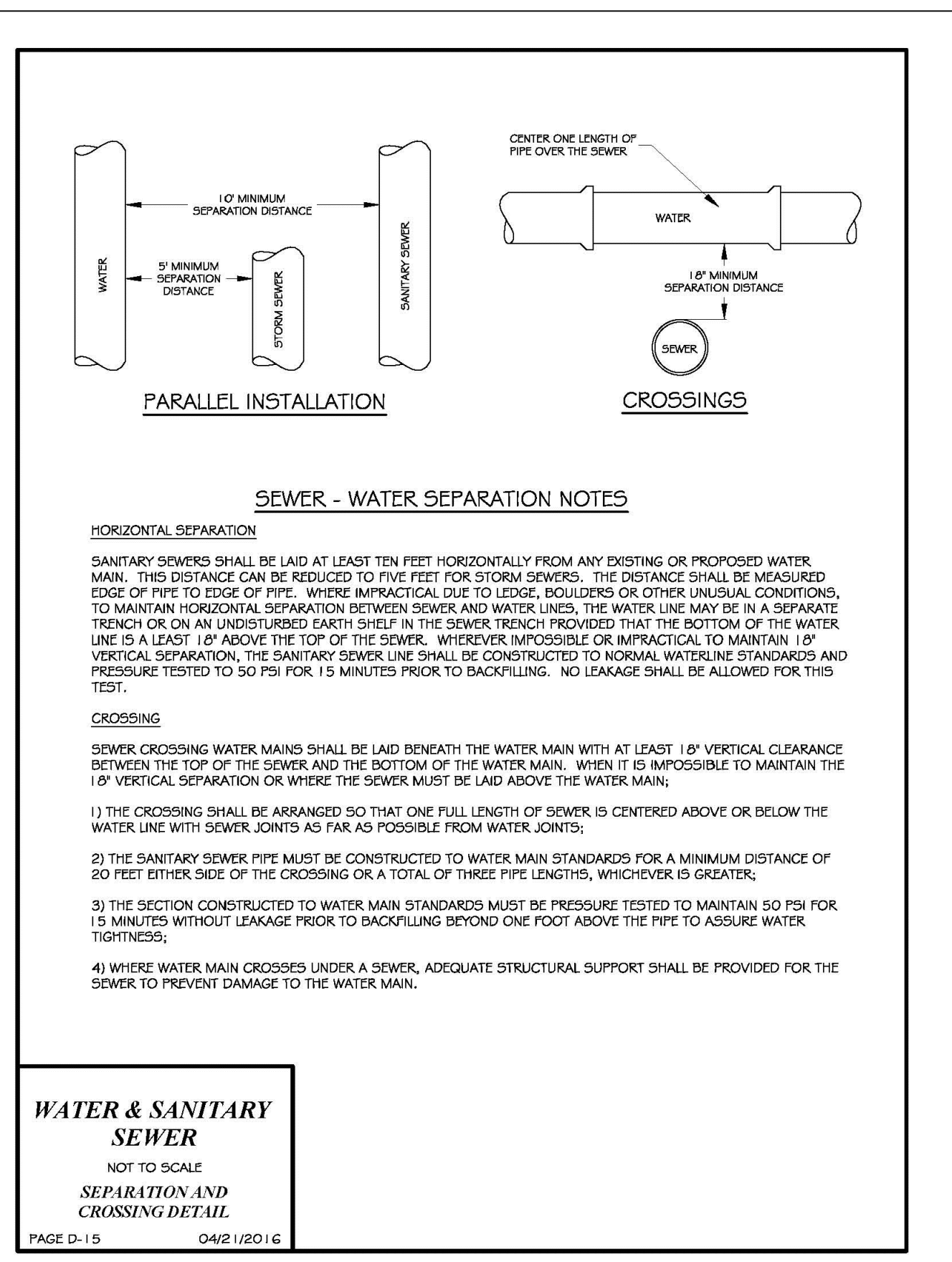
H. CLEANING PIPELINES AND APPURTENANCES:
 UPON COMPLETION OF CONSTRUCTION, ALL DIRT AND OTHER FOREIGN MATERIAL SHALL BE REMOVED FROM PIPELINES AND THEIR APPURTENANCE CONSTRUCTIONS. NO MATERIALS SHALL BE LEFT IN THE PIPELINES TO IMPEDIE NORMAL FLOW THROUGH THEM.

I. SEWER SERVICE CONNECTIONS:
 WHERE REQUIRED ON THE PLANS, SEWER SERVICE CONNECTIONS FOR ONE HOUSE SHALL BE CONSTRUCTED OF SIX INCH (6") PIPE UNLESS OTHERWISE NOTED ON THE PLANS OF THE TYPE MATERIAL SPECIFIED UNDER THIS SECTION. THE PIPE SHALL BE LAID AND ITS JOINTS MADE AS REQUIRED FOR SEWER CONSTRUCTION IN THIS SPECIFICATION.

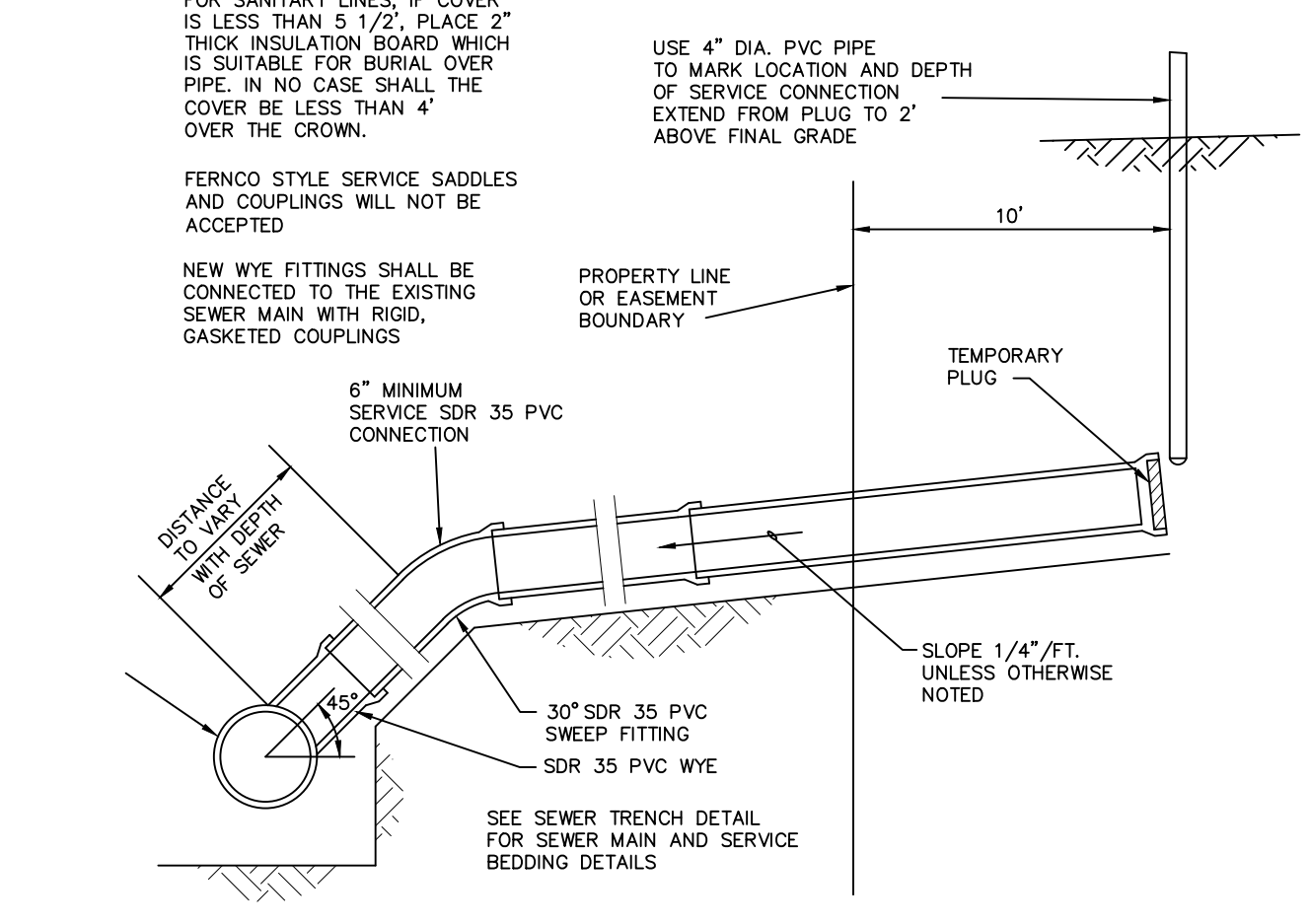
OPEN ENDS OF PIPES SHALL BE PROPERLY SEALED TO PREVENT DAMAGE AND INTRUSION OF FOREIGN WATER WHERE HOOKUP TO THE BUILDING SEWER IS NOT CONCURRENT WITH SEWER MAIN CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR WILL PROVIDE A PVC PIPE, TEMPORARY MARKER APPROVED BY THE ENGINEER FROM THE SEWER SERVICE INVERT UP TO TWENTY-FOUR INCHES (24") ABOVE THE FINISHED GRADE. THE MARKER SHALL BE SEATED SECURELY INTO THE GROUND FOR EASE IN RELOCATING THE END OF SEWER SERVICE CONNECTION FOR HOOKUP TO THE BUILDING SEWER.

IN THE CASE OF RECONNECTION OF EXISTING SERVICES, SUCH RECONNECTIONS WILL BE MADE ONLY AFTER THE NEW SEWER MAIN HAS BEEN COMPLETED, TESTED, AND ACCEPTED. THE EXCAVATION, BEDDING MATERIAL, INSTALLATION, AND BACKFILL FOR SERVICE CONNECTIONS SHALL BE THE SAME AS FOR SEWER MAINS.

J. CLEANOUTS FOR SEWERS:
 CLEANOUTS FOR GRAVITY SEWERS AND FORCE MAINS SHALL BE PROVIDED EVERY 100 FT OR WHERE THE SUM OF BENDS = 45 DEGREES. CLEANOUT FRAMES AND COVERS SHALL BE OF TOUGH GRAY CAST IRON. CASTINGS SHALL BE TRUE TO PATTERN AND FREE FROM FLAWS. THE BEARING SURFACE OF CLEANOUT FRAMES AND COVERS AGAINST EACH OTHER SHALL BE MACHINED TO GIVE CONTINUOUS CONTACT THROUGHOUT THEIR CIRCUMFERENCE. ALL IRON CASTINGS SHALL BE THOROUGHLY CLEANED AND THEN COATED WITH HOT COAL TAR BEFORE BEING DELIVERED.

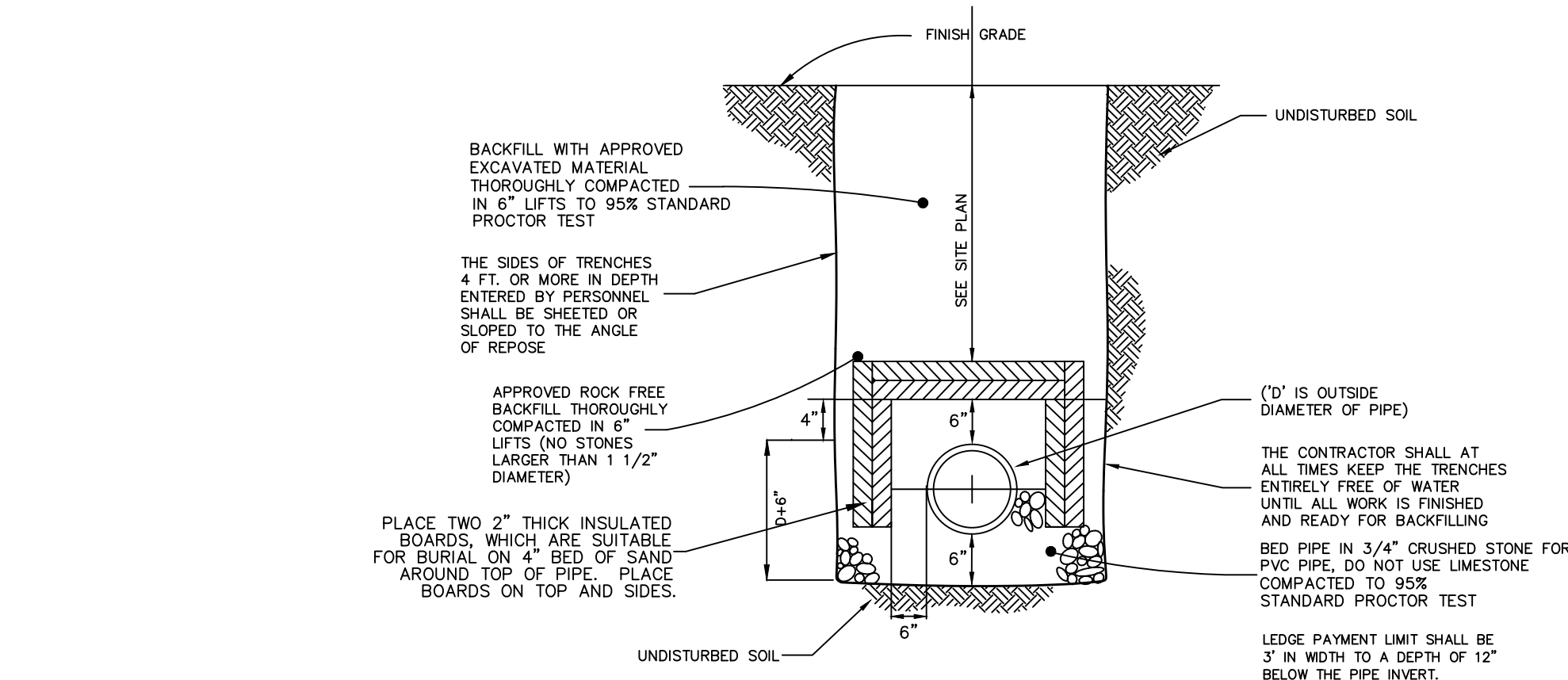


SEWER/WATER SEPARATION DETAIL FOR CROSSINGS
 NTS
A. CROSSINGS
 SEWER CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18" VERTICAL CLEARANCE BETWEEN THE TOP OF THE SEWER AND THE BOTTOM OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN;
 1) THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS;
 2) THE SANITARY SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER;
 3) THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS;
 4) WHERE WATER MAIN CROSSINGS UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
B. CROSSING
 SEWER CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18" VERTICAL CLEARANCE BETWEEN THE TOP OF THE SEWER AND THE BOTTOM OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN;
 1) THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS;
 2) THE SANITARY SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER;
 3) THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS;
 4) WHERE WATER MAIN CROSSINGS UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

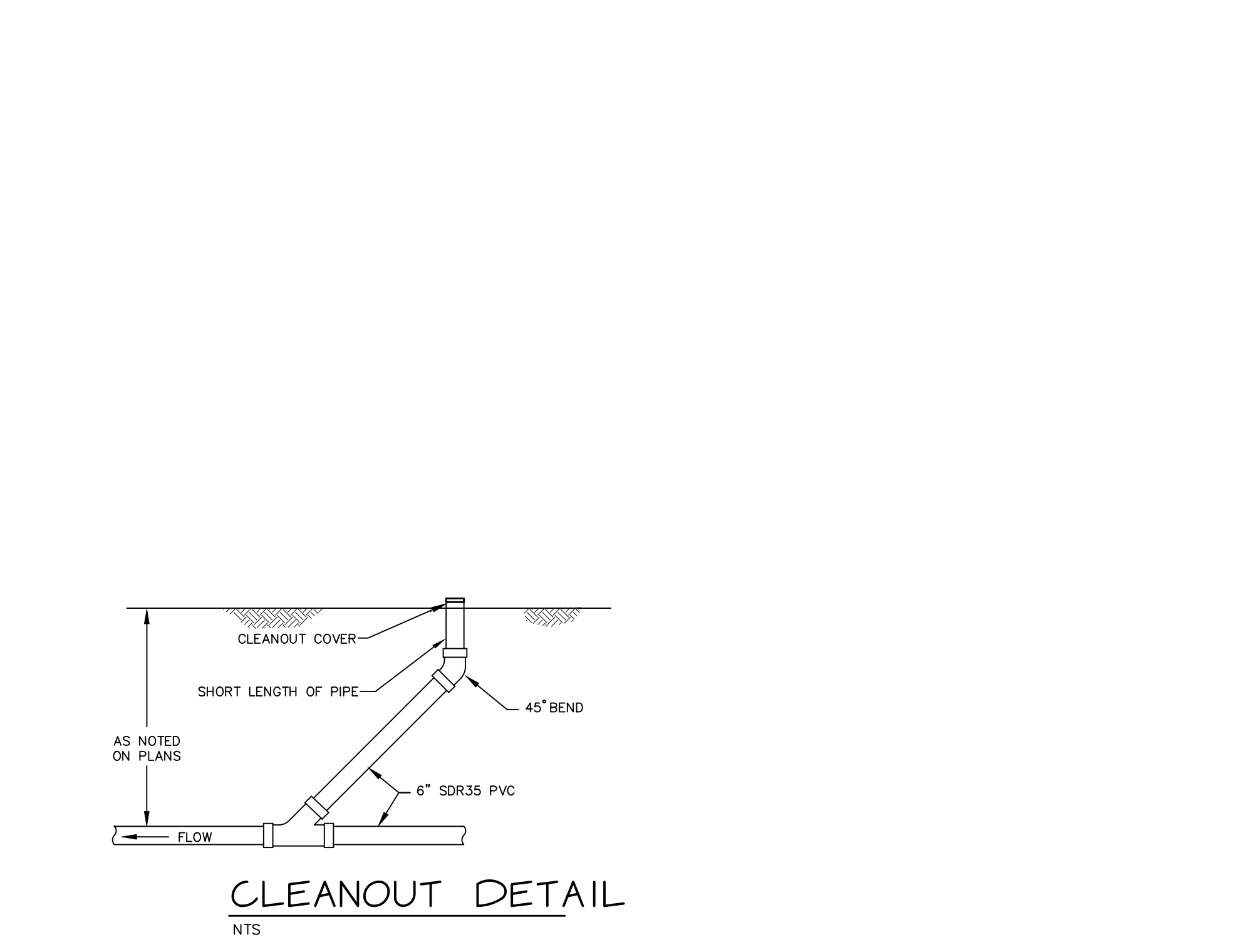


SANITARY SEWER SERVICE CONNECTION
 NTS

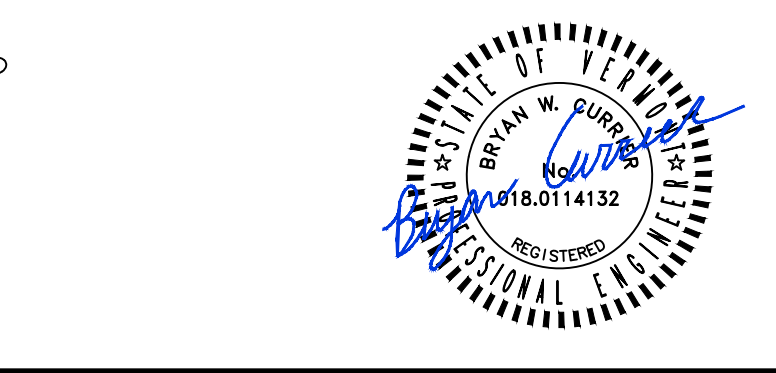
NOTES:
 • CONNECTIONS TO EXISTING MUNICIPAL WATER AND SEWER MAIN ARE TO BE PERFORMED IN THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF THE CITY OF ESSEX JUNCTION AFTER A MINIMUM OF 48 HOURS ADVANCE NOTICE.
 • ALL SEWER, WATER, AND STORM DRAINAGE UTILITIES INSTALLED ARE TO BE OBSERVED BY AN AUTHORIZED REPRESENTATIVE OF THE CITY OF ESSEX JUNCTION PRIOR TO BACKFILLING.
 • NOTIFY CITY OF ESSEX JUNCTION A MINIMUM OF 48 HOURS IN ADVANCE OF WORK PERFORMED INSIDE CITY RIGHT-OF-WAY OR UTILITIES OWNED OR TO BE OWNED BY THE CITY.



SEWER TRENCH
 NTS



CLEANOUT DETAIL
 NTS



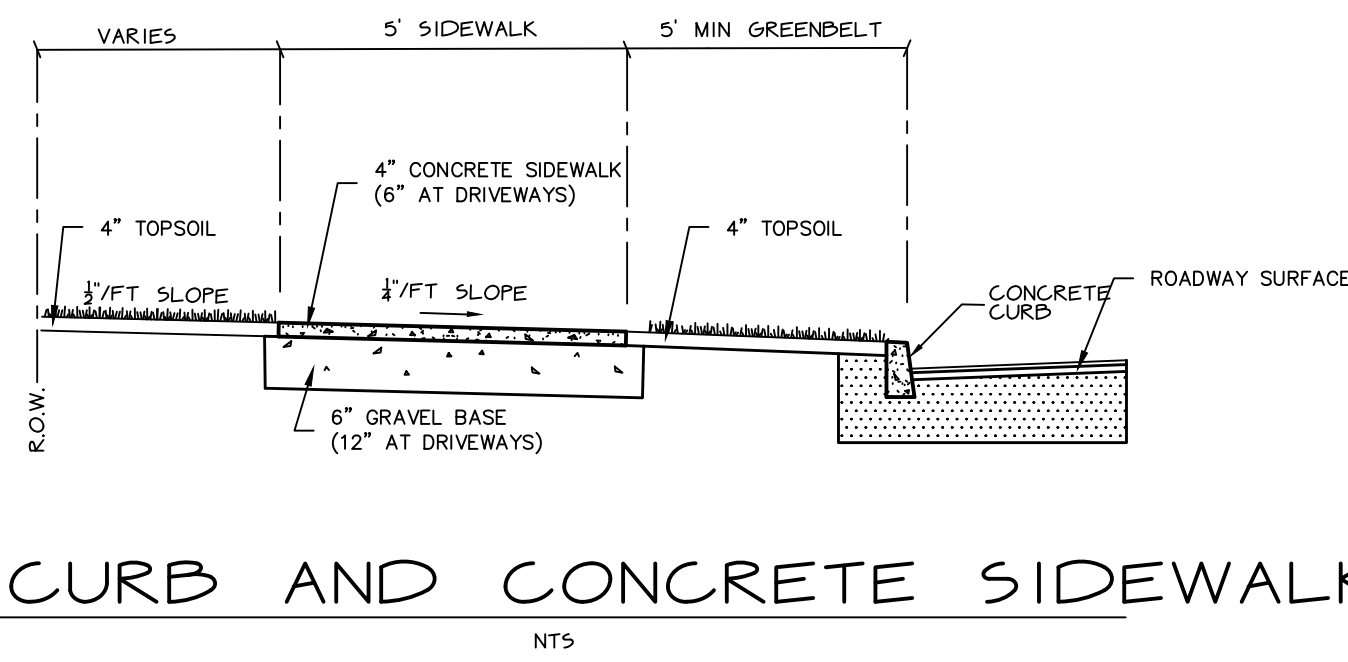
REVISION		Revised for Site Plan Application	
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DESIGN	OBCA	FINAL	<input checked="" type="checkbox"/> SKETCH/CONCEPT
DRAWN	OBCA	DATE	9-5-22
CHECKED	BWC	DESIGNER	JOB#
SCALE	1"=20'	DRAWING NO.	2021-141
		FILE	2021-141-58
		PLAN SHEET #	7

THE CONTRACTOR SHALL NOTIFY "DISSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

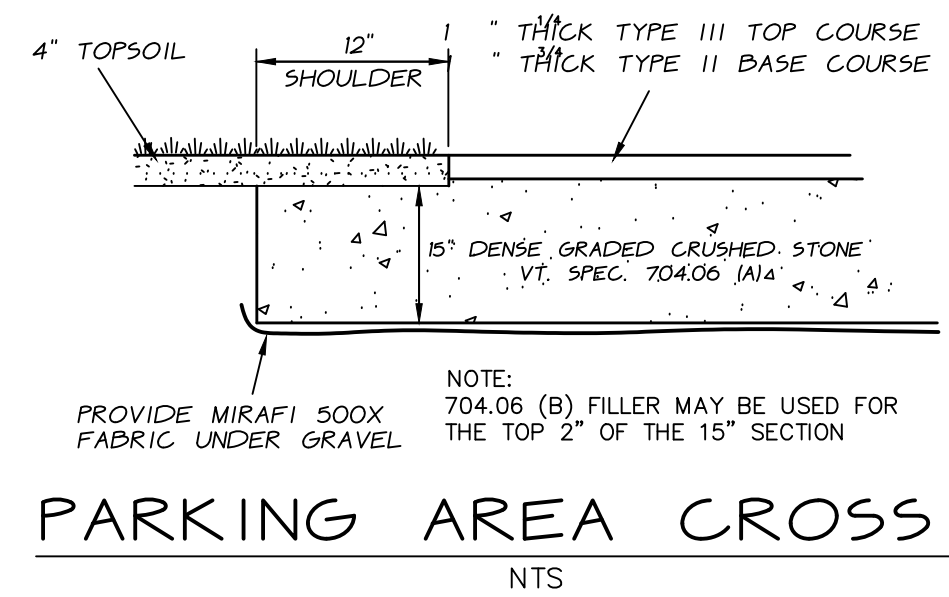
161 Pearl Street

O'LEARY-BURKE
 CIVIL ASSOCIATES, PLC

Sewer Details



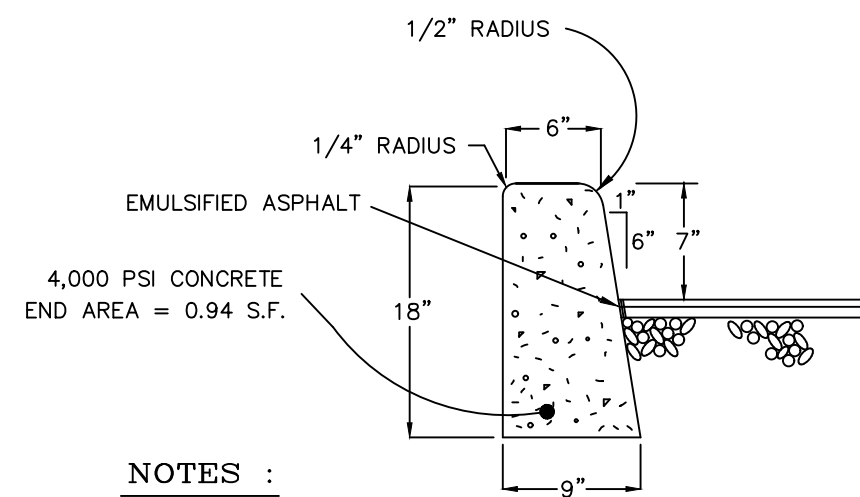
CURB AND CONCRETE SIDEWALK
NTS



PARKING AREA CROSS-SECTION
NTS



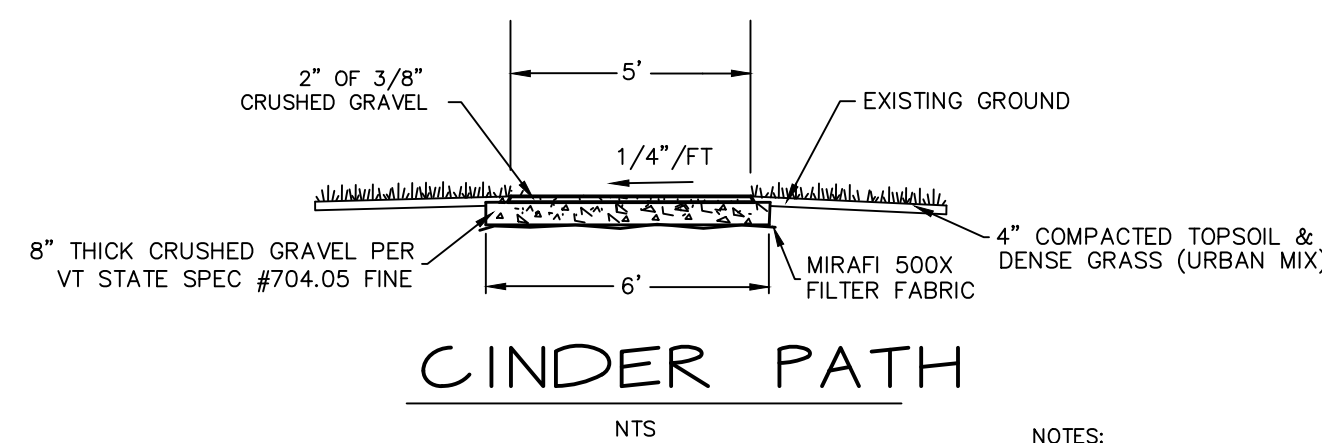
FENCE DETAIL/DUMPSTER ENCLOSURE
NTS



NOTES :

1. ALL CURB RADII LESS THEN 200' SHALL BE FORMED USING FLEXIBLE FORMS.
2. CURB REVEAL AT DRIVEWAYS SHALL BE 1" MAX. AND 1/4" MAX. AT HANDICAP ACCESS RAMPS.
3. CURBING SHALL BE CONSTRUCTED IN 10 FOOT SECTIONS WITH 1/8" JOINTS BETWEEN SECTIONS.
4. ALL MATERIALS AND CONSTRUCTION TO BE ACCORDING TO SPECIFICATIONS.
5. CURBING EXPANSION JOINTS SHALL BE CONSTRUCTED EVERY 20' AND SHALL BE CONSTRUCTED OF MATERIAL CONFORMING TO AASHTO DESIGNATION M-153 (1/2" SPONGE RUBBER OR CORK).
6. ALL EXPOSED SURFACES TO RECEIVE 2 COATS OF AN ANTI-SPALLING COMPOUND.

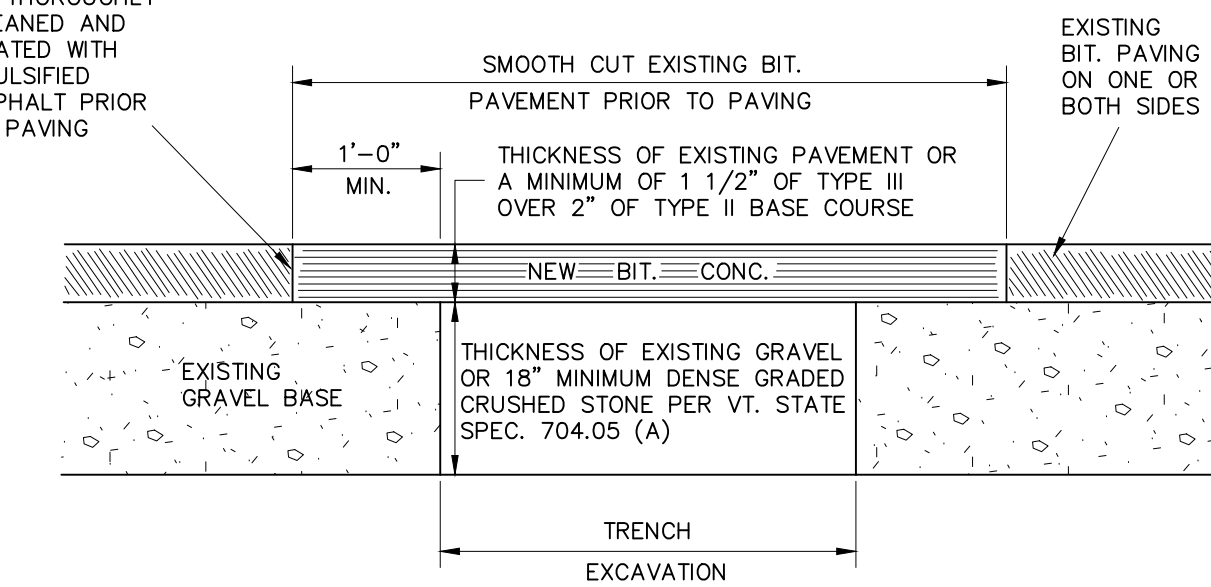
CONCRETE CURB
NTS



CINDER PATH
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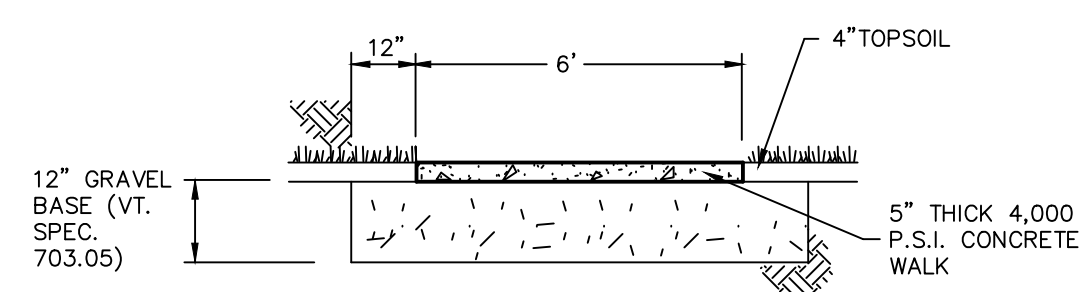
- NOTES:
- 1.) VERTICAL CLEARANCE 8" MIN. FROM HIGHEST SECTION OF PATH
 - 2.) ANY TREE ROOTS ENCOUNTERED WITHIN THE EXCAVATION LIMITS SHALL BE SAWCUT AND REMOVED.

ALL JOINTS SHALL BE THOROUGHLY CLEANED AND COATED WITH EMULSIFIED ASPHALT PRIOR TO PAVING



1. SETUP AND MAINTAIN SIGNS AND OTHER SAFETY CONTROL DEVICES.
2. RESHAPE HOLE AND PATCH AREA BY CUTTING WITH CONCRETE SAW INTO A SQUARE OR RECTANGULAR SHAPE. CUT SIDE FACES VERTICALLY. RESHAPE DOWNWARD TO SOLID MATERIAL AND AROUND HOLE TO SOLID PAVEMENT.
3. BACKFILL TRENCH IN 6" LIFTS AND COMPACT EACH LIFT TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
4. REMOVE ALL LOOSE MATERIAL AND THOROUGHLY SWEEP THE HOLE AREA CLEAN OF MUD AND STANDING WATER.
5. APPLY LIQUID EMULSION (RS-1) TO VERTICAL FACES IN A UNIFORM MANNER. DO NOT PUDDLE EMULSION ON BOTTOM OF THE HOLE.
6. PLACE TYPE II BASE COURSE OF PAVEMENT A MINIMUM OF 2" THICK.
7. FILL TOP OF HOLE WITH TYPE III BITUMINOUS CONCRETE AND COMPACT IN LIFTS OF NO MORE THAN 2". FINAL LIFT SHOULD BE 1/2" TO 1" ABOVE ADJOINING PAVEMENT BEFORE COMPACTION SO THAT AFTER COMPACTION THE PATCH IS LEVEL WITH THE EXISTING PAVEMENT. EACH LIFT SHOULD BE THOROUGHLY COMPACTED WITH A VIBRATORY PLATE COMPACTOR OR A VIBRATORY PORTABLE ROLLER. EXPERIENCE HAS SHOWN THAT 15 TO 20 PASSES ARE REQUIRED WITH A VIBRATORY ROLLER AND A MIX TEMPERATURE ABOVE 250 DEGREES F ARE NECESSARY TO ENSURE GOOD COMPACTION. HAND TAMP SHOULD ONLY BE USES FOR SMALL AREAS (LESS THAN 1 S.F.).
8. CLEANUP AREA. DO NOT LEAVE EXCESS FILL OR EXCAVATED MATERIAL ON THE PAVEMENT. REMOVE SAFETY SIGNS AND DEVICES.

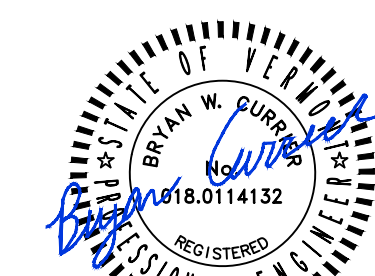
REPLACEMENT OF EXISTING PAVEMENT
NTS



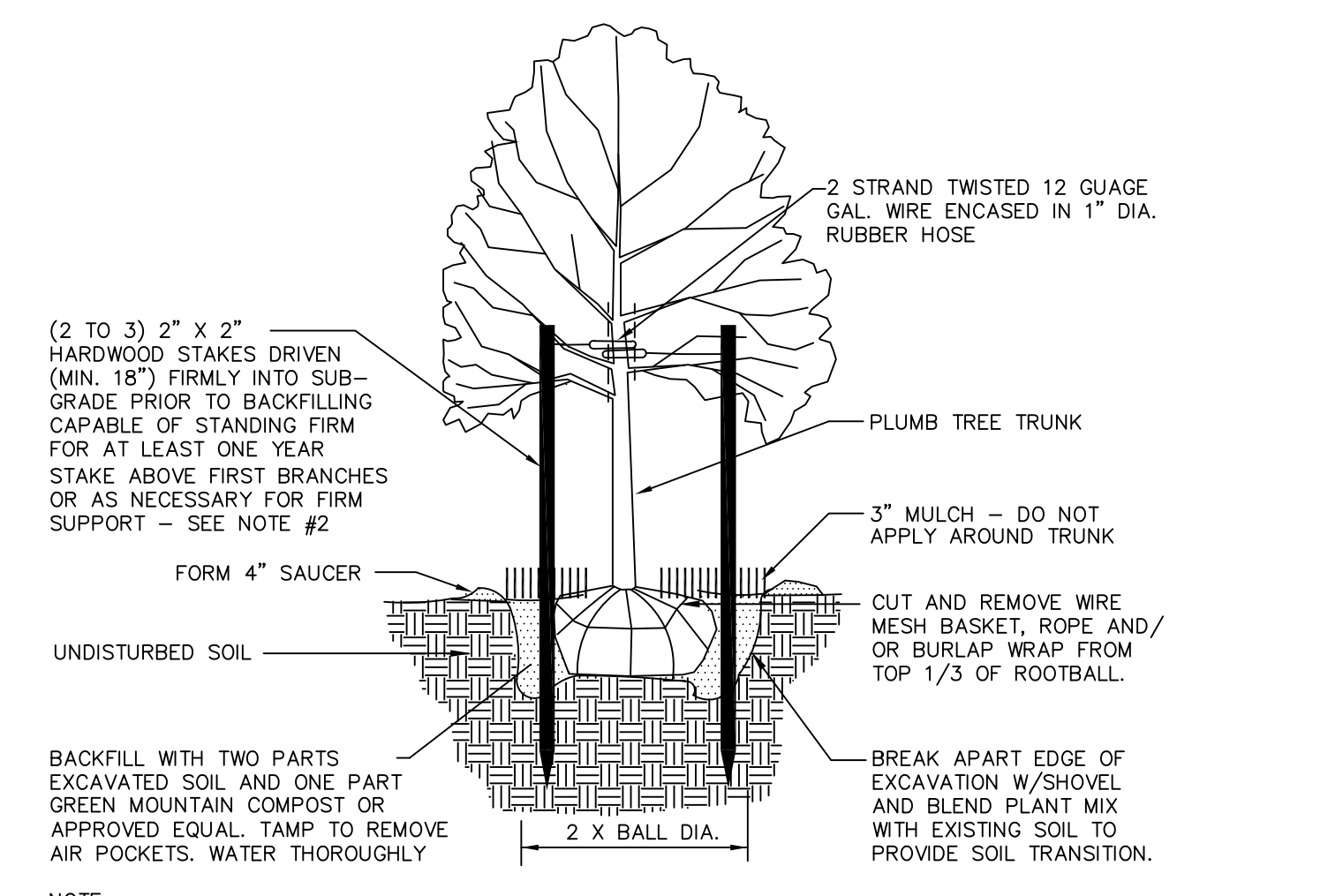
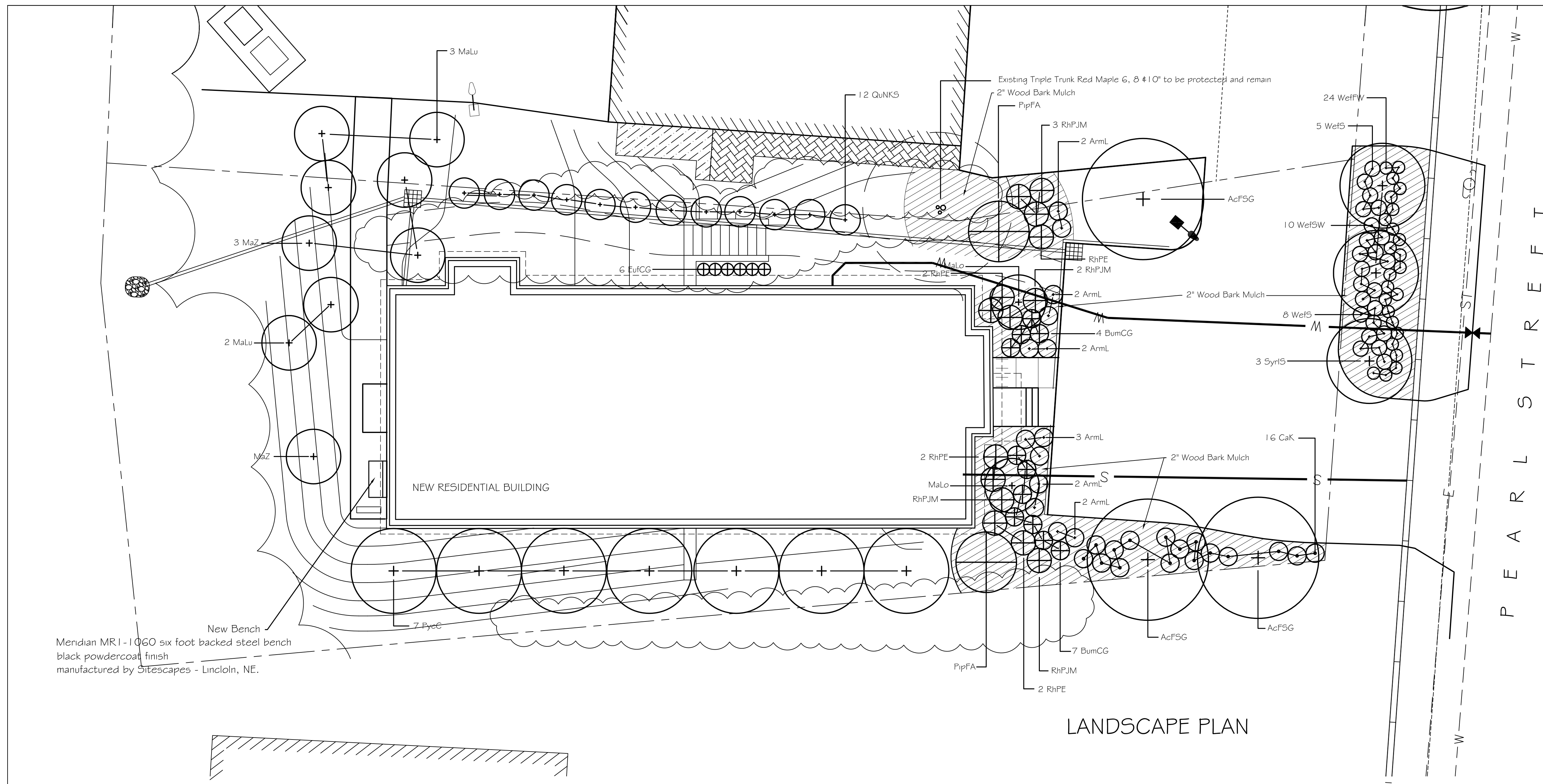
1. SIDEWALK SHALL BE CAST IN 100' SECTIONS WITH NO EXPANSION JOINTS. CONNECTION TO EXISTING SIDEWALK AND BETWEEN 100 FOOT SECTIONS SHALL BE ACCOMPLISHED WITH STEEL DOWELS, SPACED 12" ON CENTER. SIDEWALK ADJACENT TO CURB SHALL BE SEPARATED BY 4 MIL POLYETHYLENE. SIDEWALK JOINTS SHALL BE SAW CUT AT 5' INTERVALS TO 1/3 THE SIDEWALK DEPTH. STRUCK TRANSVERSE FALSE JOINTS SHALL NOT BE UTILIZED.
2. ALL MATERIALS AND CONSTRUCTION TO BE ACCORDING TO SPECIFICATIONS.
3. SOME AREAS REQUIRE WALKS OF GREATER WIDTH OF THE DISCRETION OF THE VILLAGE.
4. CONCRETE WALKS SHALL BE 6" THICKNESS ACROSS DRIVES.
5. ALL SIDEWALKS SHALL BE TREATED WITH CERTI-VEX AC 1315, PER THE MANUFACTURER.
6. ALL EXPOSED SURFACES TO RECEIVE 2 COATS OF AN ANTI-SPALLING COMPOUND.

TYPICAL SIDEWALK SECTION
NTS

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

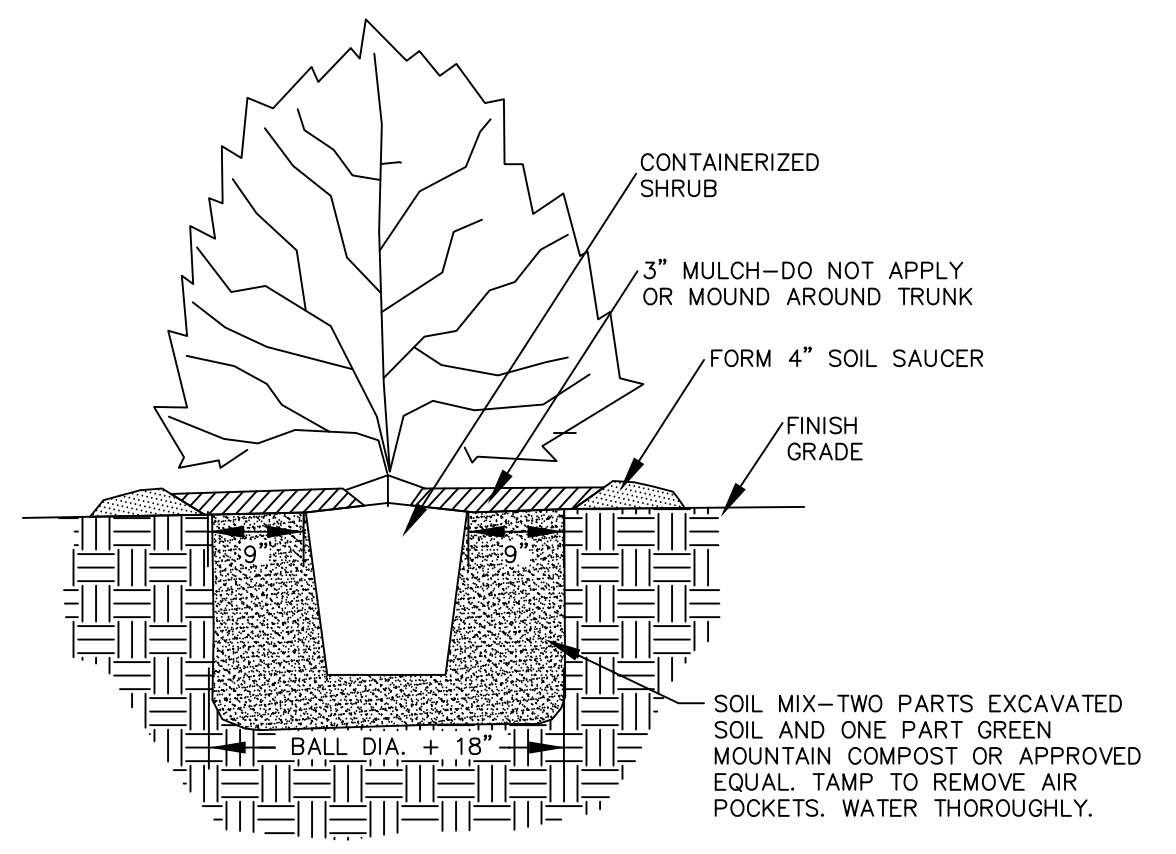


DATE: 4-26-23	REVISION: Revised for Site Plan Application	BY: BWC
SURVEY: OB/CA	<input type="checkbox"/> RECORD DRAWING <input type="checkbox"/> PRELIMINARY	DATE: 9-5-22
DESIGN: OB/CA	<input checked="" type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB#: 2021-141
DRAWN: OB/CA	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	FILE: 2021-141-SB
CHECKED: BWC		PLAN SHEET #
SCALE: 1"=20'	13 CORPORATE DRIVE ESSEX JCT., VT. PHONE: 878-9580 FAX: 878-9589 E-MAIL: obca@olearyburke.com	161 Pearl Street Pearl Street Essex Jct., Vermont
		Roadway Details
		8



- NOTE:
1. PLANT TREE SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.
 2. STAKING AS REQUIRED ONLY IN SITUATIONS WHERE TREES WILL BE SUBJECTED TO WINDY CONDITIONS AS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT.
 3. TREES SHALL BE GUARANTEED FOR A PERIOD OF THREE YEARS AFTER PLANTING.
 4. EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING AND SURVEYORS TAPE PRIOR TO PLANTING TO PREVENT GIRDLING.

TREE PLANTING
NTS



SHRUB PLANTING
DETAIL
NTS

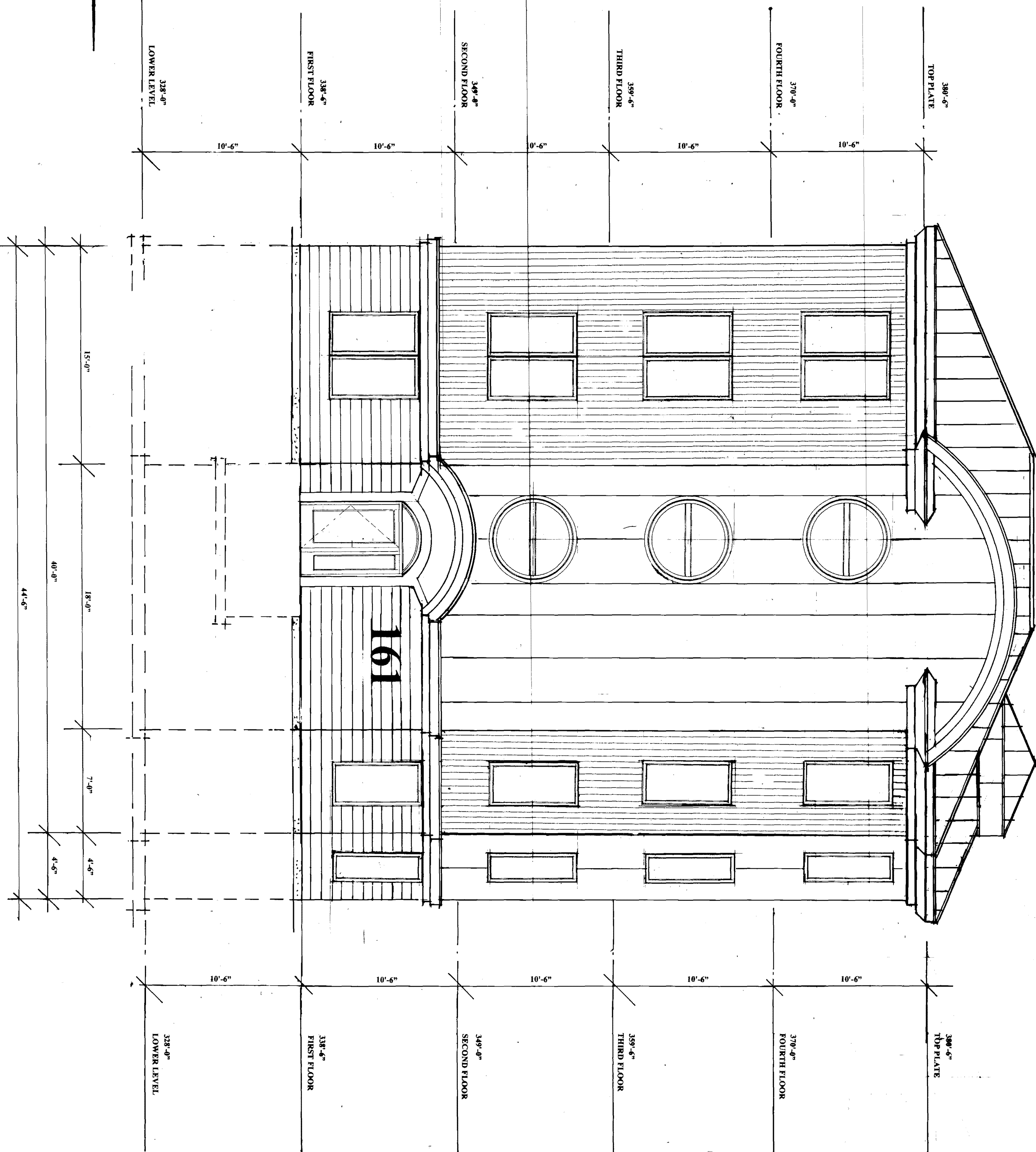
PLANTING SPECIFICATIONS

1. Plant names indicated shall comply with "Standardized Plant Names" as adopted by the latest edition of the latest edition of the American Joint Commission of Horticulture Nomenclature. Attach legible tag with botanical name to each or representative plant.
2. Comply with sizing and grading standards of the latest edition of "American Standards for Nursery Stock".
3. All plants shall be nursery grown.
4. Provide plants typical of their species and variety with normal, densely developed branches and vigorous, fibrous root systems.
5. Provide sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasions to the bark, crooked leaders, pruning wounds greater than one inch in diameter, insects and eggs.
6. Evergreen trees shall be branched to the ground.
7. Provide freshly-dug plants.
8. Do not prune plants before delivery.
9. All plants shall be larger than the minimum size specified. Fifty percent of the plants shall be in the upper half of the range specified.
10. Place protective covering over plants transported in open vehicles to protect from windburn.
11. Balled and burlapped plants - provide firm, natural balls of earth. Cracked or mushroomed rootballs are unacceptable.
12. Container-grown plants - shall have been grown in container for a sufficient length of time for the root system to have developed to hold its soil together. Firm and whole plants shall neither be loose in their container nor pot-bound.
13. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant list. Single stemmed or thin plants are unacceptable.
14. Time of planting - April 15th to October 15th.
15. Before starting work, report any defects on the site, such as incorrect grading, to the Landscape Architect. Commencement of work by the Landscape Contractor shall indicate his/her acceptance of the areas to be planted and he/she shall assume full responsibility for the work of planting.
16. Locate plants indicated on the plan in the field. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until the Landscape Architect has selected alternate plant locations.
17. Contractor shall contact Landscape Architect to inspect all plant material on site to review quality, size, species and variety before planting operations commence.
18. Plant substitutions will be permitted if authorized by Landscape Architect.
19. If plants cannot be planted immediately upon delivery to the site, protect with soil, wet peat moss, bark mulch or in a manner acceptable to the Landscape Architect.
20. Stake plant locations as shown on drawings before planting. Staking locations are subject to approval of Landscape Architect.
21. The Contractor shall perform all work in accordance with "American Association of Nurserymen Standards for Materials, Installation and Maintenance".
22. Dig planting pits at a depth to set top of root flare slightly above finish grade and a width twice the diameter of the plant's root ball.
23. Set plants in planting pit so trunks are straight.
24. Place topsoil mix in planting pits and compact. When pit is nearly filled, water thoroughly. Fill remainder of hole with topsoil mix, build four inch height saucer at top edge of pit. Flood saucer with water.
25. Drive four, two foot long, 2inch by 2 inch hardwood stakes into undisturbed soil one foot beyond edge of plant pit. Tie arbutic material to opposite stakes over root ball with one twist around tree trunk.
26. Mulch trees and planting beds within 48 hours of planting.
27. Saturate installed plants with water during maintenance period as often as necessary to insure proper plant moisture.
28. Prune trees as necessary to remove dead or injured twigs and branches. Make cuts just outside of branch collar.
29. Maintain new planting and continue until acceptance. Maintenance includes: pruning, watering, weeding, mulching, resetting plants to finish grade and vertical position, restoring plant saucers.
30. Correct defective work as soon as possible as deficiencies become apparent and weather and season permit.
31. Remove and immediately replace all plants determined by the Landscape Architect to be unsatisfactory during the initial planting installation.
32. Notify the Landscape Architect to inspect the work for substantial completion. When inspection is approved the owner's representative will confirm with written acceptance.
33. The Contractor is responsible to guarantee all plant material to be healthy and flourishing for a period of two years from date of planting or written acceptance.
34. Plant replacements shall closely match adjacent plants of the same species.
35. Contractor shall replace failed or unsatisfactory plants at no cost to the owner.

PLANTING LIST

TREES	KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE/SPEC.
	AcF5G	3	<i>Acer x freemanii</i> 'Sienna Glen'	Sienna Glen Freeman Maple	3-3.5 in.
	MaLo	2	<i>Malus x lallopip</i>	Lollipop Crabapple	2-2.5 in.
	MaLu	5	<i>Malus x Louisa</i>	Louisa Crabapple	2-2.5 in.
	MaZ	4	<i>Malus x Zumi</i>	Zumi Crabapple	2-2.5 in.
	PipFA	2	<i>Picea pungens</i> 'Fat Albert'	Fat Albert Colorado Spruce	6-7 ft.
	PycC	7	<i>Pyrus calleryana</i> 'Chanticleer'	Chanticleer Pear	8-10 ft.
	QuNK5	12	<i>Quercus x Nadler</i> 'Kindred Spirit'	Kindred Spirit Oak	2.5-3 in.
	Syr15	3	<i>Syringa reticulata</i> 'Ivory Silk'	Ivory Silk Lilac	2-2.5 in.
SHRUBS					
	ArML	13	<i>Aronia melanocarpa</i> 'Low Scape Hedger'	Low Scape Chokeberry	3 gal.
	BumCG	11	<i>Buxus microphylla</i> 'Chicagoland Green'	Chicagoland Green Boxwood	5 gal.
	EufCG	6	<i>Euonymus fortunei</i> 'Canadale Gold'	Canadale Gold Wintercreeper	3 gal.
	RhPJM	7	<i>Rhododendron</i> 'PJM Elite'	Elite PJM Rhododendron	5 gal.
	RhPE	7	<i>Rhododendron</i> 'Purple Elegans'	Purple Elegans Rhododendron	10 gal.
	WeifW	24	<i>Weigela florida</i> 'Fine Wine'	Fine Wine Weigela	3 gal.
	WeifSW	13	<i>Weigela florida</i> 'Spilled Wine'	Spilled Wine Weigela	3 gal.
	WeifS	8	<i>Weigela florida</i> 'Strobe'	Strobe Weigela	3 gal.
ORNAMENTAL GRASSES					
	CaK	16	<i>Calamagrostis x acut.</i> 'Karl Foerster'	Karl Foerster Fr. Reed Grass	3 gal.

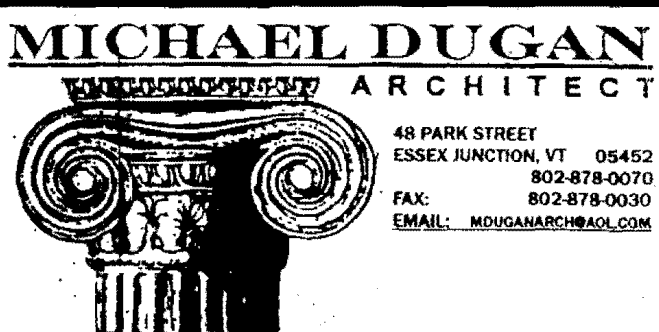
SOUTH ELEVATION
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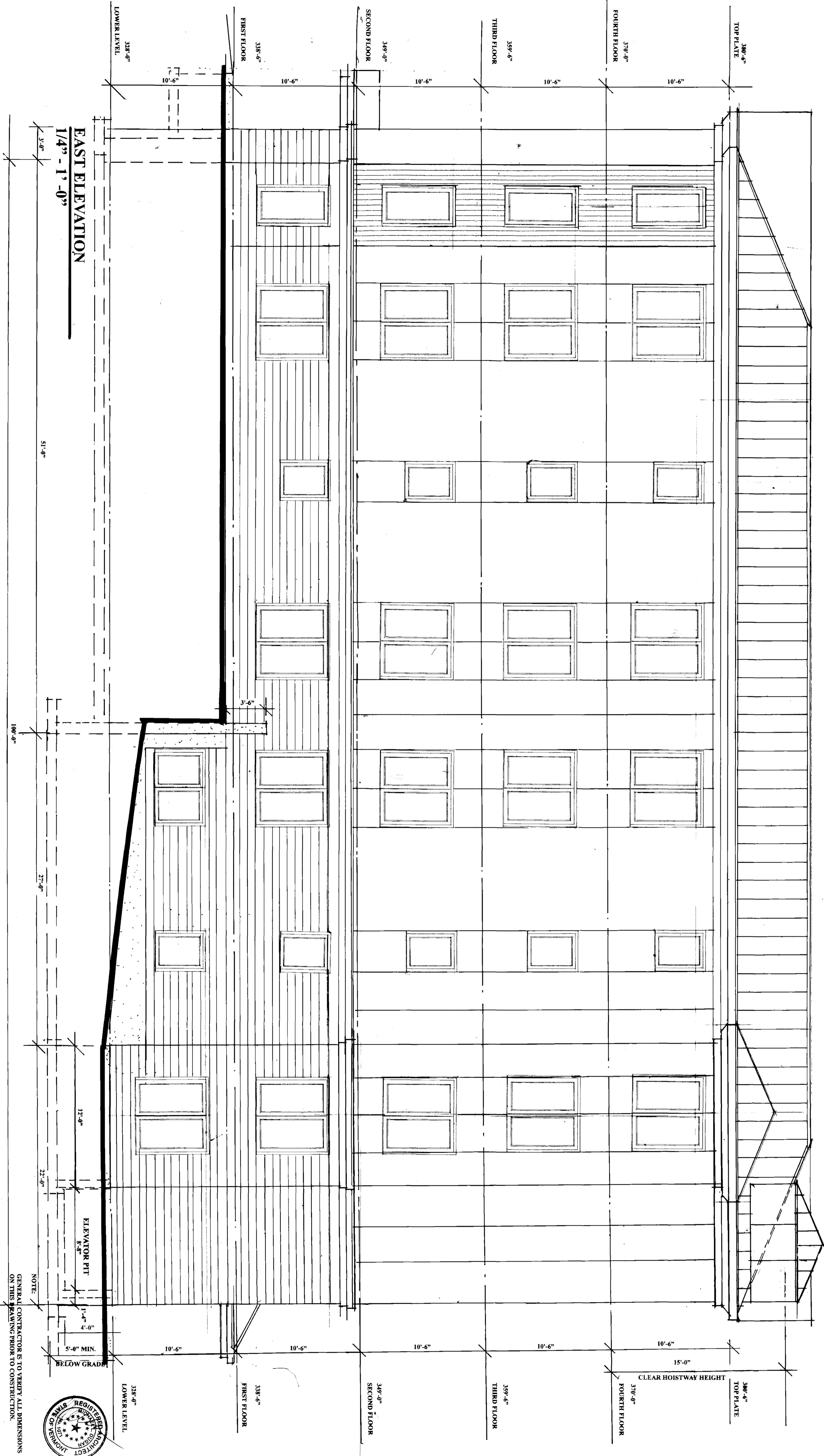


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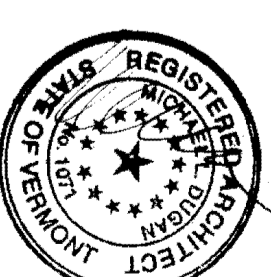
SOUTH ELEVATION

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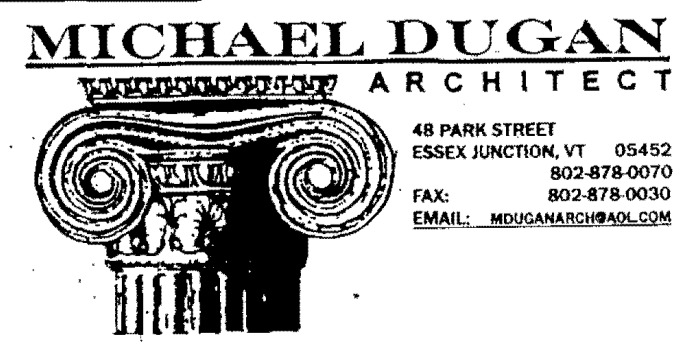


EAST ELEVATION
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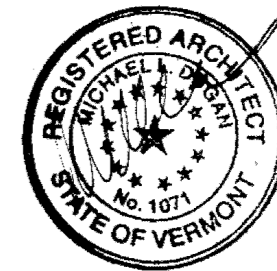
EAST ELEVATION

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NORTH ELEVATION
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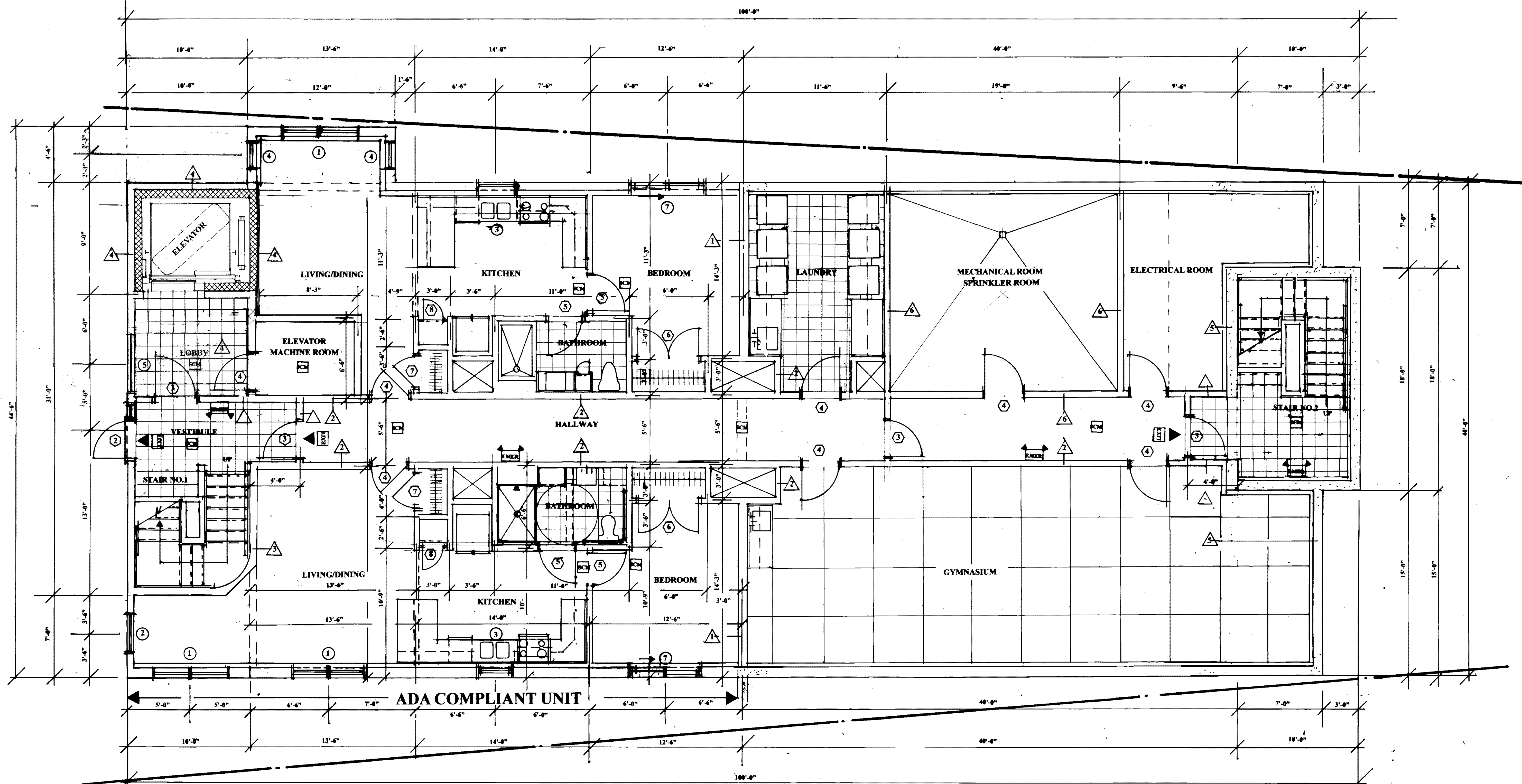
NORTH ELEVATION

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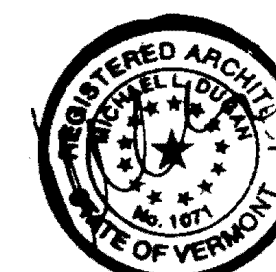
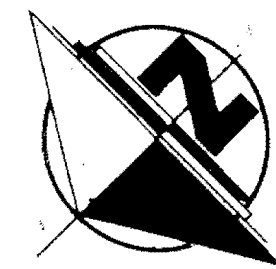
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A8



LOWER ENTRANCE LEVEL
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LOWER ENTRANCE LEVEL

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UPPER ENTRANCE LEVEL

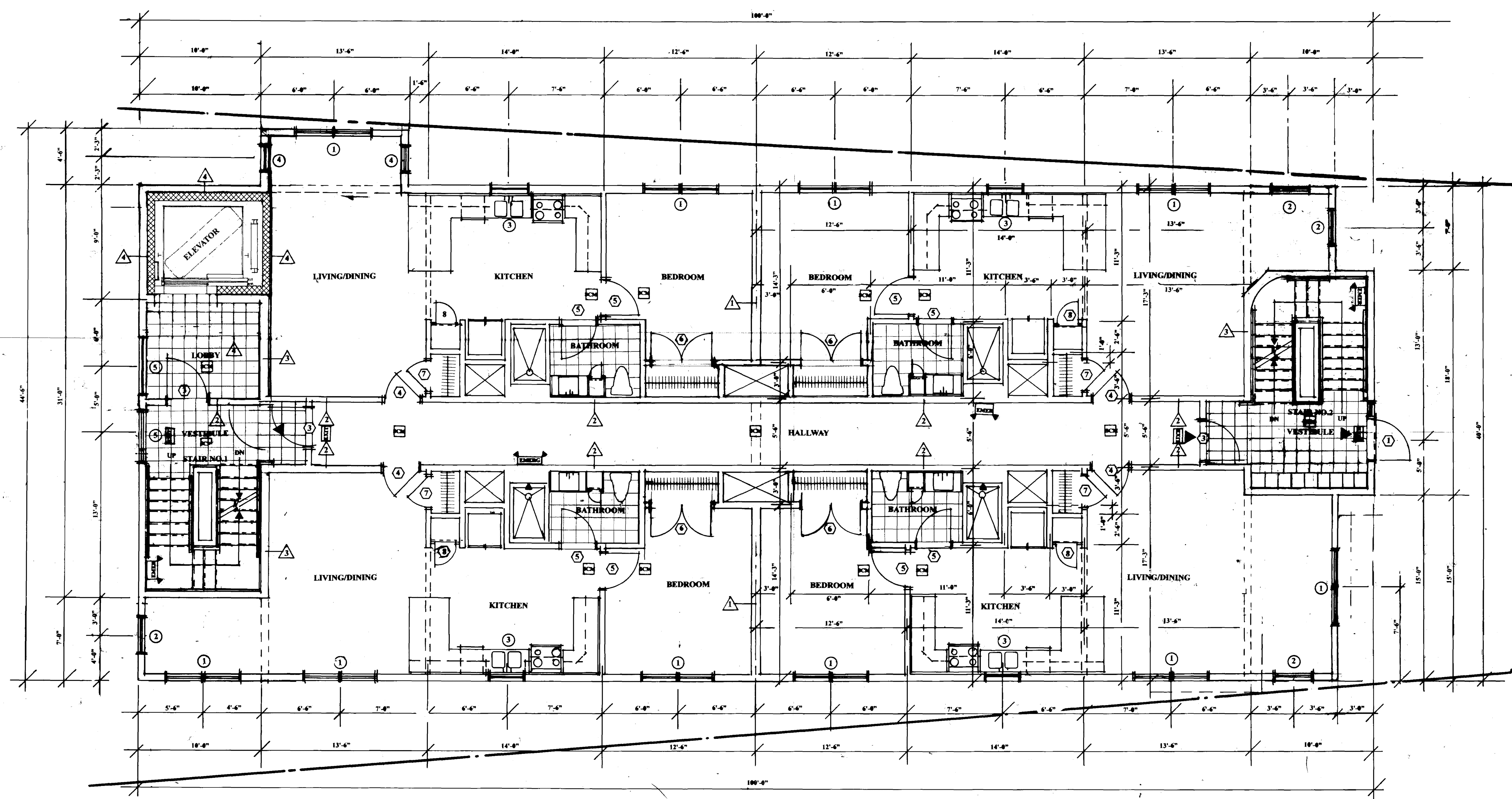
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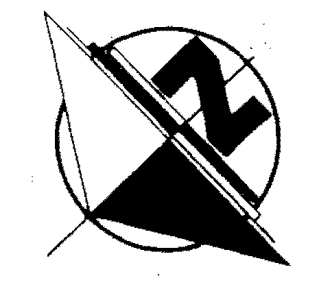
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UPPER ENTRANCE LEVEL
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