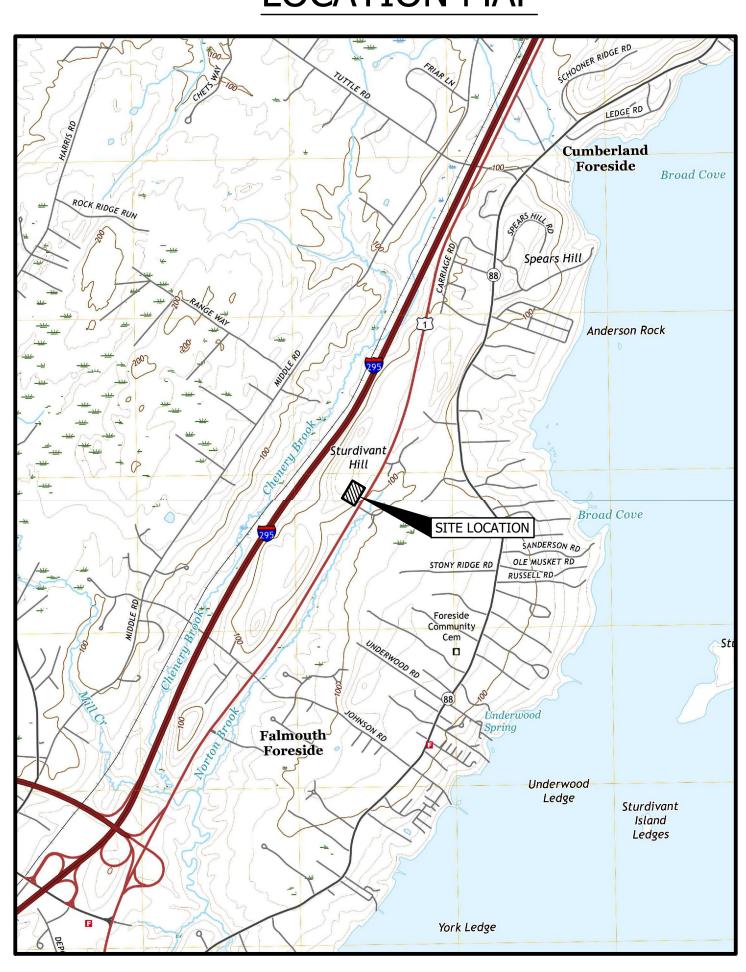
YARMOUTH VETERINARY CENTER U.S. ROUTE 1 CUMBERLAND, MAINE

LOCATION MAP



TITLE DWG NO **COVER SHEET** C-100 GENERAL NOTES, LEGEND, AND ABBREVIATIONS **EXISTING CONDITIONS AND CLEARING PLAN** C-101 SITE LAYOUT PLAN C-102 SITE UTILITIES PLAN C-103 SITE GRADING, DRAINAGE, AND EROSION CONTROL PLAN C-104 C-200 UNDERDRAINED SOIL FILTER PLAN AND SECTION C-300 EROSION CONTROL NOTES AND DETAILS C-301 SECTIONS AND DETAILS C-302 SECTIONS AND DETAILS C-303 SECTIONS AND DETAILS STORMWATER MANAGEMENT PLAN - PRE-DEVELOPMENT CONDITIONS D-100 STORMWATER MANAGEMENT PLAN - POST-DEVELOPMENT CONDITIONS D-101 FOURTH AMENDED SUBDIVISION PLAN - CUMBERLAND FORESIDE VILLAGE 1-SD PLANTING PLAN S1 PLANTING PLAN S2 PHOTOMETRIC PLAN 1 OF 1

OCTOBER 2023 REISSUED FOR CONSTRUCTION



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com



GENERAL SITE NOTES:

1. BASE MAP FROM CADD DRAWING PROVIDED BY OWEN HASKELL, INC., DATED JANUARY 12, 2022. HORIZONTAL DATUM: MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83.

BUILDING, ROUTE 1 CUMBERLAND, MAINE" BY SITELINES OF BRUNSWICK, MAINE, DATED 3/8/2021.

- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 2. CONDITIONS SHOWN ON EAST ABUTTING PROPERTY ARE PROPOSED FROM PLAN TITLED "COMMERCIAL/OFFICE
- 3. WETLANDS DELINEATED BY ALBERT FRICK ASSOCIATES, INC, DATED APRIL 2022.
- 4. EXCAVATE AND STOCKPILE ON-SITE TOPSOIL. TOPSOIL IS TO REMAIN THE PROPERTY OF THE OWNER DURING
- CONSTRUCTION, AND SHALL NOT BE REMOVED FROM THE SITE. RESPREAD EXCESS MATERIAL OVER SITE. 5. CULVERT LOCATIONS IN U.S. ROUTE 1 FROM DRAWING D1.0 "DRAINAGE ANALYSIS EXISTING CONDITIONS", BY
- 6. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO ENGINEER. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION IS NOT GUARANTEED. VERIFY SITE CONDITIONS INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO

GRADING NOTES:

PINKHAM & GREER, DATED 6/2/18.

PROCEEDING WITH THAT PORTION OF THE WORK.

- 1. PROVIDE EROSION CONTROL MESH ON ALL SLOPES 6:1 OR STEEPER, AND ALONG DITCH CHANNELS.
- 2. GRADE SURFACES TO DRAIN AWAY FROM BUILDINGS AND STRUCTURES. PUDDLING OF WATER IN PAVED OR UNPAVED AREAS WILL NOT BE ACCEPTABLE, EXCEPT FOR AREAS DESIGNATED AS PONDS.
- 3. MAINTAIN TEMPORARY EROSION CONTROL MEASURES FOR THE FULL DURATION OF CONSTRUCTION. INSPECT WEEKLY AND AFTER EACH STORM AND REPAIR AS NEEDED. PLACE IN AREA OF LOW EROSION POTENTIAL, AND STABILIZE WITH SEED AND MULCH. REMOVE SEDIMENTS FROM THE SITE.
- 4. PLACE TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS OF INITIAL DISTURBANCE. PLACE PERMANENT SOIL STABILIZATION WITHIN 7 DAYS OF FINAL GRADING.

UTILITY NOTES:

- 1. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION IS NOT GUARANTEED. VERIFY SITE CONDITIONS INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
- 2. PLACE 4 FOOT WIDE BY 2 INCH THICK TRENCH INSULATION OVER SEWER LINES WHERE DEPTH OF COVER OVER TOP OF PIPE IS LESS THAN 5 FEET.
- 3. COORDINATE WORK ON UTILITY LINES OR WITHIN ROAD RIGHT-OF-WAY WITH THE UTILITY COMPANIES AND TOWN ROAD DEPARTMENT AND STATE MOOT.
- 4. SLOPE CONDUITS AWAY FROM BUILDING TO HANDHOLE OR UTILITY POLE TO AVOID GROUND WATER SEEPAGE INTO
- 5. CONSTRUCT WATER MAINS AND SERVICES IN ACCORDANCE WITH PORTLAND WATER DISTRICT STANDARD SPECIFICIATIONS.
- 6. ALL PIPING AND DRAINAGE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF CUMBERLAND AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARDS.

SURVEY NOTES:

- 1. OWNERS OF RECORD:
- CUMBERLAND FORESIDE VILLAGE, LLC, 50 GRAY ROAD, FALMOUTH, MAINE
- BOOK 23549, PAGE 231 BOOK 23628, PAGE 23
- BOOK 29433, PAGE 72
- BOOK 31615, PAGE 105 BOOK 32477, PAGE 266
- BOOK 32827, PAGE 24
- 2. MARKERS TO BE SET AT ALL CORNERS.
- THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD DOES NOT CONSTITUTE ACCEPTANCE BY THE TOWN OF ANY STREET, EASEMENT, OPEN SPACE AREA, PARK, PLAYGROUND, OR OTHER RECREATION AREA THEREON.
- 4. PROJECT HAS AN APPROVED DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT. PERMIT NO. L-21578-39-L-A.
- 5. PROJECT HAS AN APPROVED MAINE DEPARTMENT OF TRANSPORTATION PERMIT. PERMIT ID NO. 01-00070-A-M.

DIG SAFE NOTES:

PRIOR TO EXCAVATION, VERIFY THE UNDERGROUND UTILITIES, PIPES, STRUCTURES AND FACILITIES. PROVIDE THE FOLLOWING MINIMUM MEASURES:

- 1. PRE-MARK THE BOUNDARIES OF YOUR PLANNED EXCAVATION WITH WHITE PAINT, FLAGS OR STAKES, SO UTILITY CREWS KNOW WHERE TO MARK THEIR LINES.
- 2. CALL DIG SAFE, AT 811, AT LEAST THREE BUSINESS DAYS BUT NO MORE THAN 30 CALENDAR DAYS BEFORE STARTING WORK. DO NOT ASSUME SOMEONE ELSE WILL MAKE THE CALL.
- 3. IF BLASTING, NOTIFY DIG SAFE AT LEAST ONE BUSINESS DAY IN ADVANCE.
- 4. WAIT THREE BUSINESS DAYS FOR LINES TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES. NOTE THE COLOR OF THE MARKS AND THE TYPE OF UTILITIES THEY INDICATE. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
- 5. CONTACT THE LANDOWNER AND OTHER "NON-MEMBER" UTILITIES (WATER, SEWER, GAS, ETC.). FOR THEM TO MARK THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
- 6. RE-NOTIFY DIG SAFE AND THE NON-MEMBER UTILITIES IF THE DIGGING, DRILLING OR BLASTING DOES NOT OCCUR WITHIN 30 CALENDAR DAYS, OR IF THE MARKS ARE LOST DUE TO WEATHER CONDITIONS, SITE WORK ACTIVITY OR ANY OTHER REASON.
- 7. HAND DIG WITHIN 18 INCHES IN ANY DIRECTION OF ANY UNDERGROUND LINE UNTIL THE LINE IS EXPOSED.
- MECHANICAL METHODS MAY BE USED FOR INITIAL SITE PENETRATION, SUCH AS REMOVAL OF PAVEMENT OR ROCK. 8. DIG SAFE REQUIREMENTS ARE IN ADDITION TO TOWN, CITY AND/OR STATE DOT STREET OPENING PERMIT REQUIREMENTS.
- 9. FOR COMPLETE DIG SAFE REQUIREMENTS, CALL THE PUBLIC UTILITIES COMMISSION (PUC) AT 1-800-452-4699 OR VISIT WWW.STATE.ME.US/MPUC
- 10. IF YOU DAMAGE, DISLOCATE OR DISTURB ANY UNDERGROUND UTILITY LINE, IMMEDIATELY NOTIFY THE AFFECTED UTILITY. IF DAMAGE CREATES SAFETY CONCERNS, CALL THE FIRE DEPARTMENT AND TAKE IMMEDIATE STEPS TO SAFEGUARD HEALTH AND PROPERTY.
- 11. ANY TIME AN UNDERGROUND LINE IS DAMAGED OR DISTURBED OR IF LINES ARE IMPROPERLY MARKED, YOU MUST FILE AN INCIDENT REPORT WITH THE PUC FOR AN INCIDENT REPORT FORM VISIT WWW.STATE.ME.US/MPUC OR CALL THE PUC AT 1-800-452-4699.

APPROVAL NOTES:

POINT OF TANGENT

YD

YARD

CONTRACTOR SHALL REVIEW ALL CONDITIONS OF THE FOLLOWING PERMITS AND MAINTAIN COPIES ON SITE FOR REFERENCES:

- 1. MAINE DEP SLODA MINOR AMENDMENT
- 2. TOWN OF CUMBERLAND SITE PLAN APPLICATION

ZONING NOTES:

- 1. PROPERTY OWNER:
- APPLICANT:
 - YARMOUTH VETERINARY CENTER

WILLOW STREET REALTY, LLC

- PROPOSED USE:
- VETERINARY CENTER 4. LOT INFORMATION:
 - TAX MAP R01 LOT 11-4
 - PARCEL ID: 0R01 0011 0004
- 5. ZONING DISTRICT: OFFICE COMMERCIAL SOUTH (OC-S)
- 6. ZONING REQUIREMENTS: DIMENSIONAL STANDARDS TO BE IN ACCORDANCE WITH THE APPROVED CONTRACT ZONE FOR COMMERCIAL CONSTRUCTION AS SHOWN BELOW:

	REQUIRED	PROVIDED
MINIMUM LOT SIZE	1 ACRE	2.95 ACRES
MINIMUM STREET FRONTAGE	150 FEET	427 FEET
MINIMUM FRONT YARD SETBACK	25 FEET*	>25 FEET
MINIMUM SIDE SETBACK	20 FEET	>20 FEET
MINIMUM REAR SETBACK	40 FEET	>65 FEET
MAXIMUM BUILDING HEIGHT	40 FEET	<40 FEET
OPEN SPACE	10%	75%

- * THE FOURTH AMENDED SUBDIVISION PLAN SHOWS A 65' U.S. ROUTE 1 BUFFER STRIP.
- 7. PROPOSED IMPERVIOUS AREA: 41,964 SF (0.96 ACRES) 8. SITE UTILITIES WILL BE PROVIDED AS FOLLOWS:

NATURAL GAS:

- **ELECTRIC:** CENTRAL MAINE POWER (CMP) WATER SUPPLY: PORTLAND WATER DISTRICT SEWER SERVICE: PUBLIC (TOWN OF CUMBERLAND)
- 9. THE PROPERTY IS NOT WITHIN A FLOODPLAIN PER FEMA COMMUNITY PANEL 230162 0018 C, REVISED OCTOBER 15, 1985.

SUMMIT NATURAL GAS

DPD | 10/2023 | REISSUED FOR CONSTRUCTION

DPD 7/2023 ISSUED FOR CONSTRUCTION

DPD 8/2022 ISSUED FOR PERMIT REVIEW

DPD 3/2023 ISSUED FOR BID

REV. BY DATE STATUS

10. PARKING SUMMARY: 1 SPACE FOR EACH 250 SQUARE FEET OF GROSS LEASABLE AREA. REQUIRED: 52 SPACES / PROVIDED: 57 SPACES.

EXISTING

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PROPERTY LINE DRAINAGE EASEMENT BUILDING **EDGE OF PAVEMENT** EDGE OF GRAVEL

LEGEND

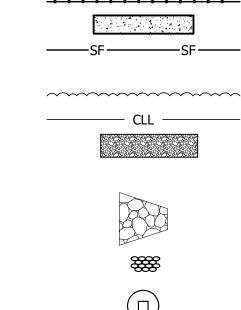
- CONTOUR SPOT GRADE **SEWER MANHOLE** CATCHBASIN SEWER LINE WATER LINE STORM DRAIN UNDERDRAIN
- LIGHT POLE UTILITY POLE **OVERHEAD UTILITIES** UNDERGROUND UTILITIES
- CHAIN LINK FENCE CONCRETE SILT FENCE
- WETLANDS TREELINE CLEARING LIMIT **GRAVEL FOREBAY**



STONE CHECK DAM

SILT SACK CATCH BASIN PROTECTION

STABILIZED CONSTRUCTION ENTRANCE



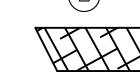
PROPOSED

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TYPICAL ABBREVIATIONS:

CUBIC YARD

ACCMP	ACDUALT COATED CMD	D	DECDEE OF CUDVE	HDPE	LITCH DENCITY DOLVETHY ENE	DEDE	DEDECRATED
	ASPHALT COATED CMP	D DBL	DEGREE OF CURVE		HIGH DENSITY POLYETHYLENE	PERF PP	PERFORATED POWER POLE
ACP	ASBESTOS CEMENT PIPE		DOUBLE	HORIZ	HORIZONTAL		
AC	ACRE	DEG OR °	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
AGG	AGGREGATE	DEPT	DEPARTMENT	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	DI	DUCTILE IRON			PVMT	PAVEMENT
APPD	APPROVED	DIA OR	DIAMETER	ID	INSIDE DIAMETER		
APPROX	APPROXIMATE	DIM	DIMENSION	IN OR "	INCHES	QTY	QUANTITY
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	INV	INVERT	4	Q 07.11.12.1
ASB	ASBESTOS	DN	DOWN	INV EL	INVERT ELEVATION	RCP	REINFORCED CONCRETE PIPE
ASP	ASPHALT	DR	DRAIN			ROW	RIGHT OF WAY
AUTO	AUTOMATIC	DWG	DRAWING	LB	POUND	RAD	RADIUS
AUX	AUXILIARY			LC	LEACHATE COLLECTION	REQD	REQUIRED
AVE	AVENUE	EA	EACH	LD	LEAK DETECTION	RT	RIGHT
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LF	LINEAR FEET	RTE	ROUTE
		ELEC	ELECTRIC	LOC	LOCATION	KIL	ROUTE
BCCMP	BITUMINOUS COATED CMP	EL	ELEVATION	LT	LEACHATE TRANSPORT	S	SLOPE
BM	BENCH MARK	ELB	ELBOW			SCH	SCHEDULE
BIT	BITUMINOUS	EOP	EDGE OF PAVEMENT	MH	MANHOLE	SF	SQUARE FEET
BLDG	BUILDING	EQUIP	EQUIPMENT	MJ	MECHANICAL JOINT	SHT	SHEET
BOT	BOTTOM	EST	ESTIMATED	MATL	MATERIAL	SMH	SANITARY MANHOLE
BRG	BEARING	EXC	EXCAVATE	MAX	MAXIMUM	ST	STREET
BV	BALL VALVE	EXIST	EXISTING	MFR	MANUFACTURE	STA	STATION
DV	DALL VALVE			MIN	MINIMUM	SY	SQUARE YARD
СВ	CATCH BASIN	FI	FIELD INLET	MISC	MISCELLANEOUS		-
CEN	CENTER	FG	FINISH GRADE	MON	MONUMENT	TAN	TANGENT
CEM LIN	CEMENT LINED	FBRGL	FIBERGLASS	11011	PIONOPILINI	TDH	TOTAL DYNAMIC HEAD
CMP	CORRUGATED METAL PIPE	FDN	FOUNDATION	NITC	NOT IN THIS CONTRACT	TEMP	TEMPORARY
CO	CLEAN OUT	FLEX	FLEXIBLE	NTS	NOT TO SCALE	TYP	TYPICAL
CF	CUBIC FEET	FLG	FLANGE	N/F	NOW OR FORMERLY	UD	LINDEDDDAIN
CFS	CUBIC FEET PER SECOND	FLR	FLOOR	NO OR #	NUMBER	UD	UNDERDRAIN
CI	CAST IRON	FPS	FEET PER SECOND	NO OK #	NUMBER	V	VOLTS
CL	CLASS	FT OR '	FEET	OC	ON CENTER	VA TEE	VALVE ANCHORING TEE
CONC	CONCRETE	FTG	FOOTING	OD	OUTSIDE DIAMETER	VERT	VERTICAL
CONST	CONSTRUCTION	FIG	FOOTING	OD	OUTSIDE DIAMETER		1
		CA	CALICE	DC	DOINT OF CURVE	WC	MATER CATE
CONTR	CONTRACTOR	GA GAL	GAUGE GALLON	PC	POINT OF CURVE	WG	WATER GATE
CS	CURB STOP			PD	PERIMETER DRAIN	W/	WITH
CTR	CENTER	GALV	GALLONG PER DAY	PI	POINT OF INTERSECTION	W/O	WITHOUT
CU	COPPER	GPD	GALLONS PER DAY	PIV	POST INDICATOR VALVE		

GALLONS PER MINUTE

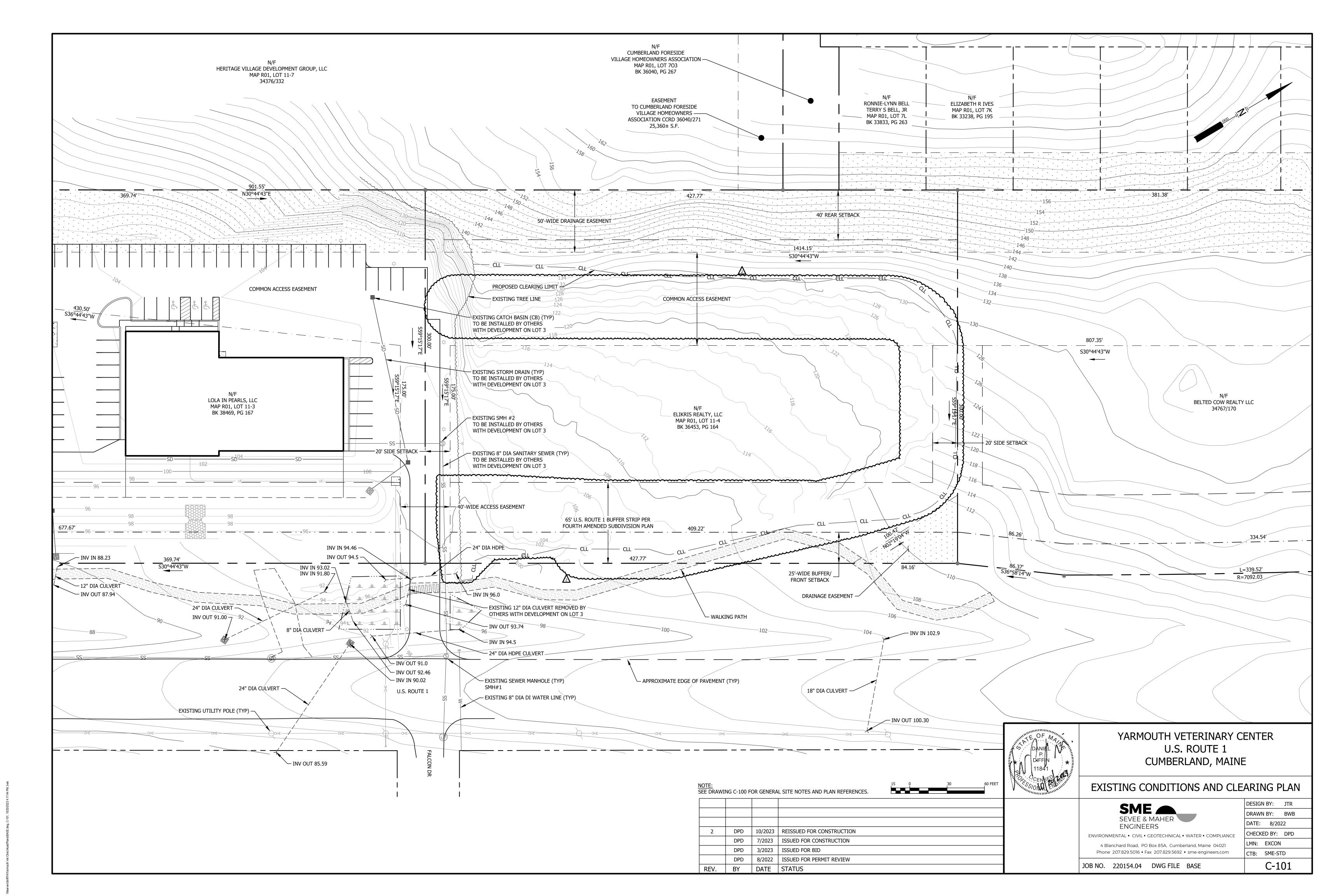
YARMOUTH VETERINARY CENTER U.S. ROUTE 1 CUMBERLAND, MAINE

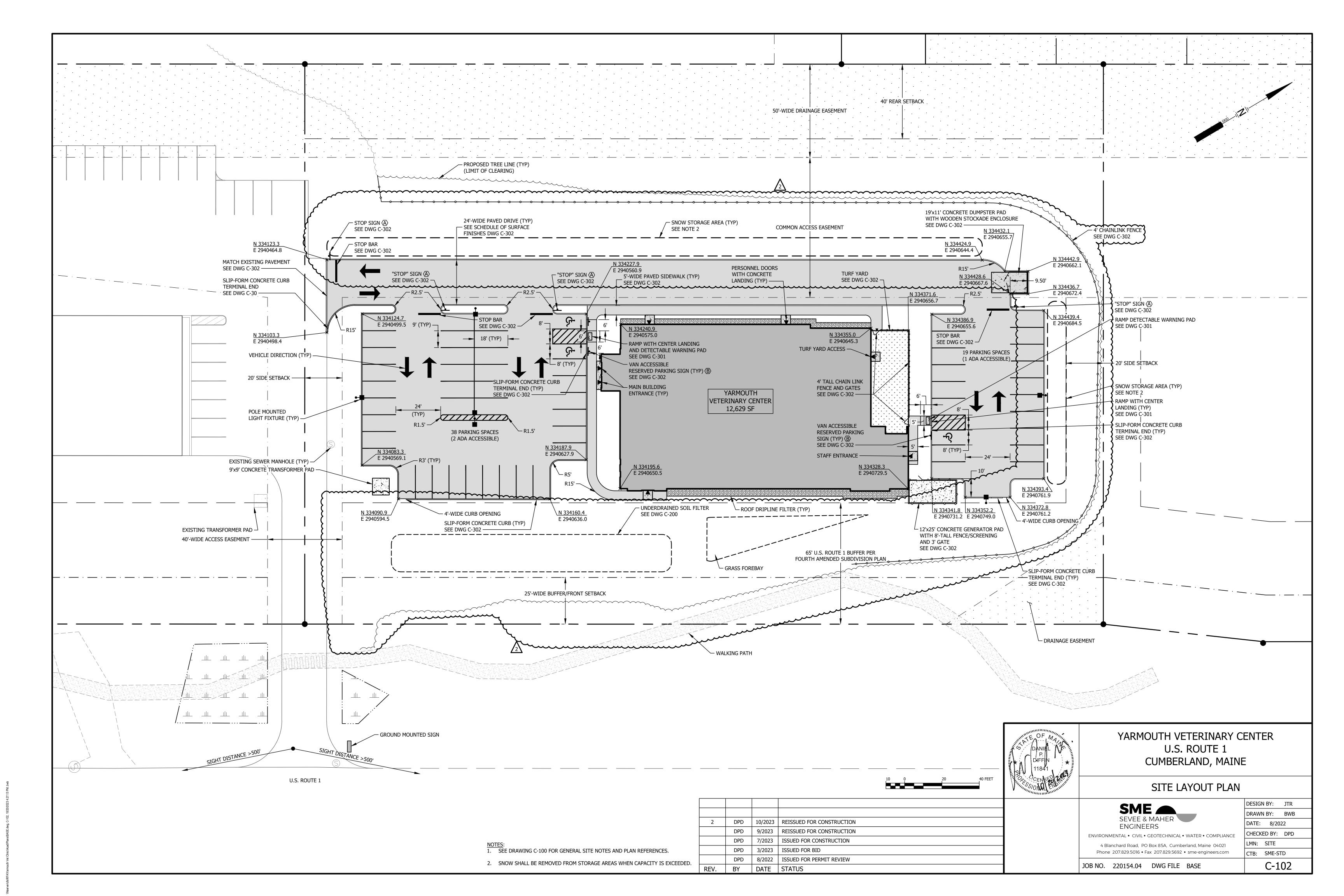
GENERAL NOTES, LEGEND, AND ABBREVIATIONS

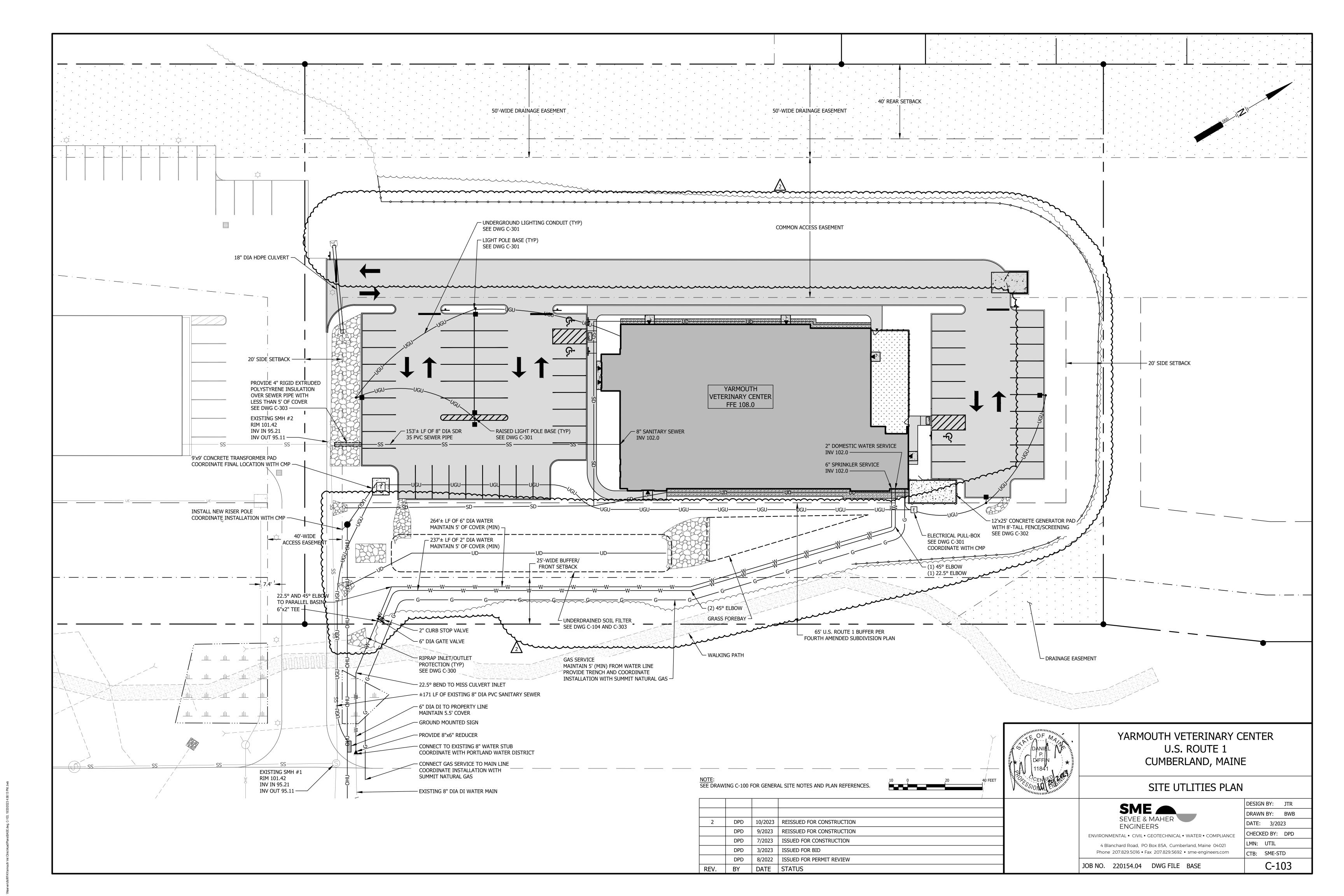


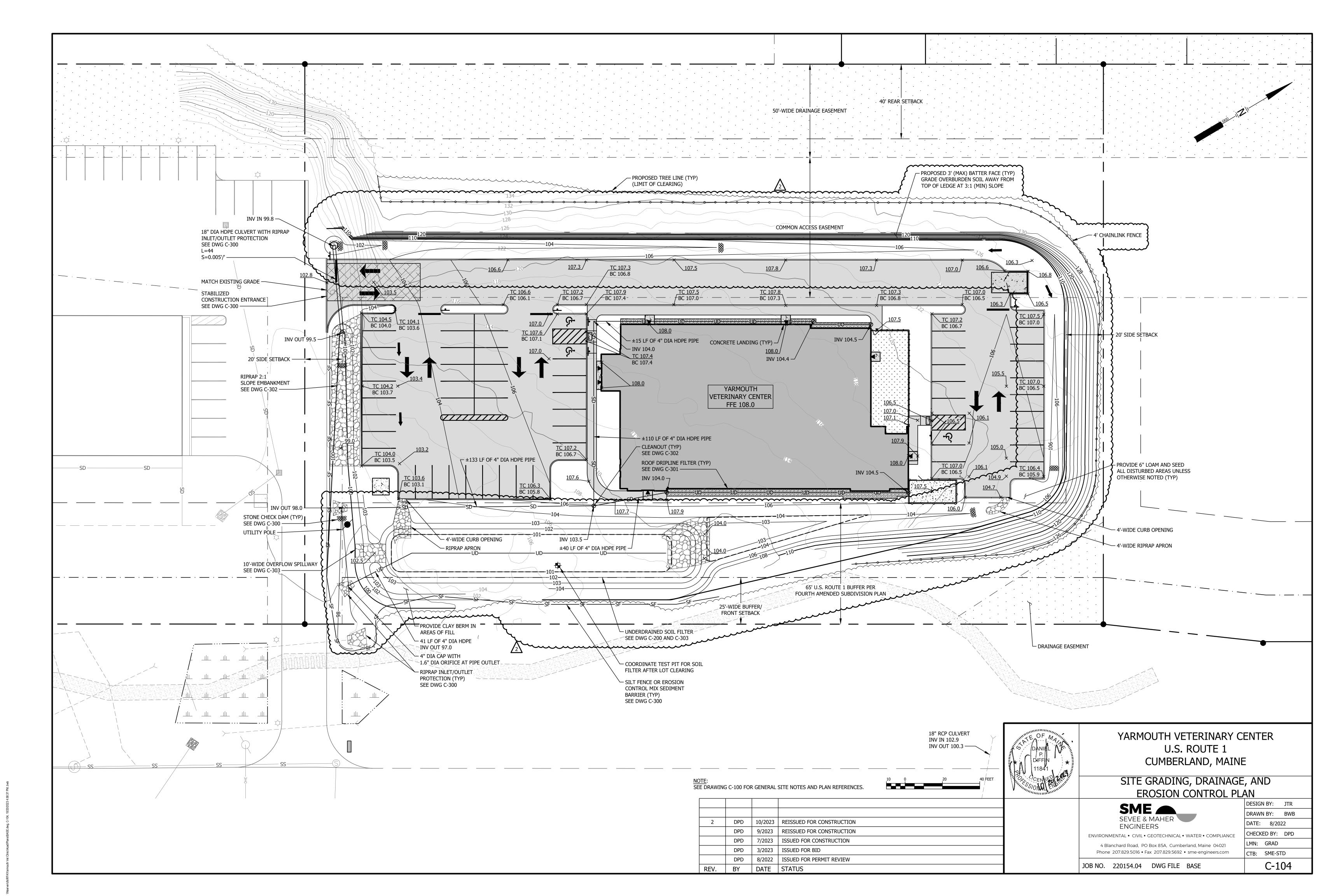
DESIGN BY: JTR DRAWN BY: BWB DATE: 8/2022 CHECKED BY: DPD ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE _MN: EXCON

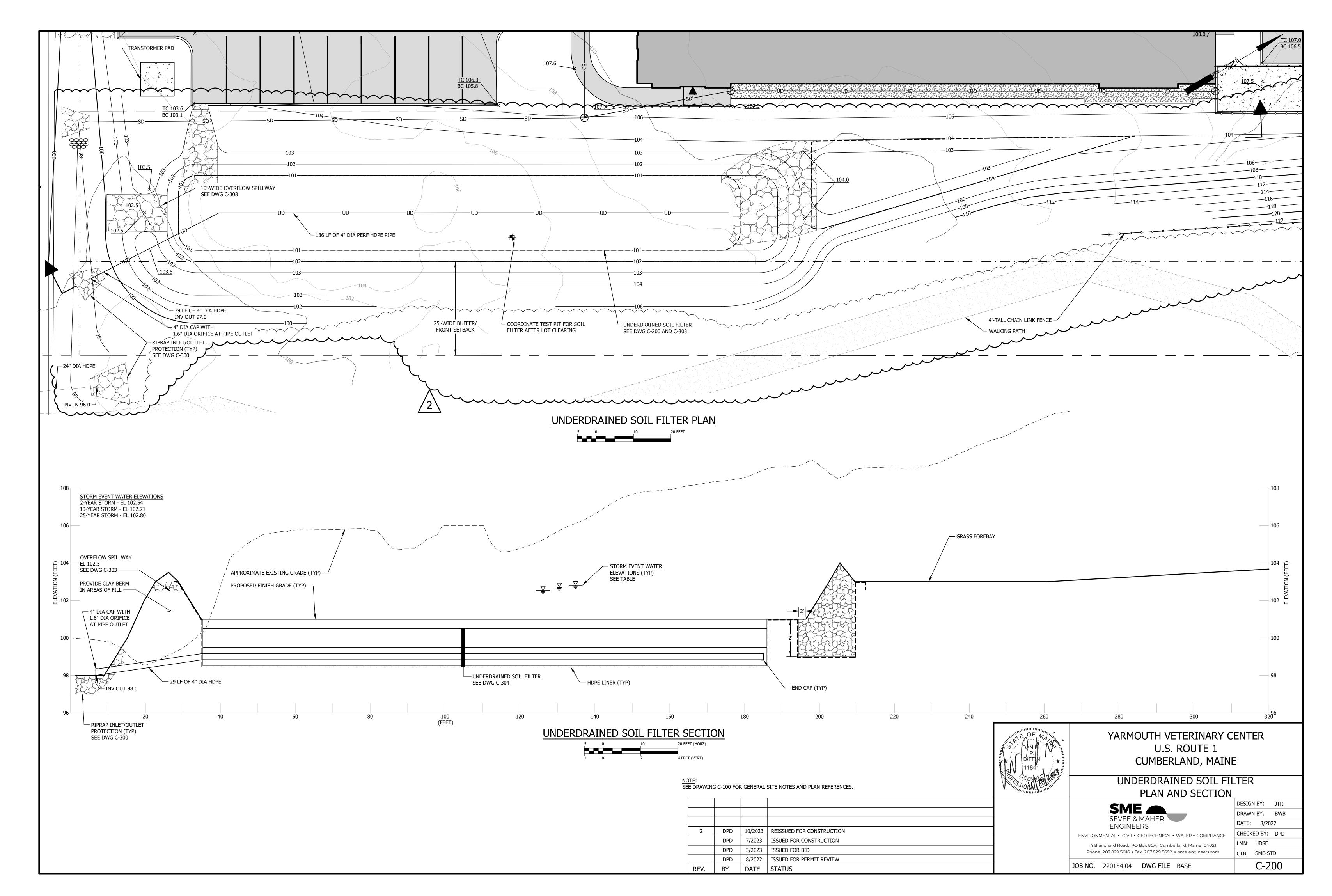
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com CTB: SME-STD C-100 JOB NO. 220154.04 DWG FILE BASE











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EROSION CONTROL NOTES:

A. GENERAL

- 1. All soil erosion and sediment control will be done in accordance with: (1) the Maine Erosion and Sediment Control Handbook: Best Management Practices, Maine Department of Environmental Protection (MEDEP), October 2016.
- . The site Contractor (to be determined) will be responsible for the inspection and repair/replacement/maintenance of all erosion control measures, disturbed areas, material storage areas, and vehicle access points until all disturbed areas are stabilized.
- 3. Disturbed areas will be permanently stabilized within 7 days of final grading. Disturbed areas not to be worked upon within 14 days of disturbance will be temporarily stabilized within 7 days of the disturbance.
- 4. In all areas, removal of trees, bushes and other vegetation, as well as disturbance of topsoil will be kept to a minimum while allowing proper site operations.
- 5. Any suitable topsoil will be stripped and stockpiled for reuse as directed by the Owner. Topsoil will be stockpiled in a manner such that natural drainage is not obstructed and no off-site sediment damage will result. In any event, stockpiles will not be located within 100 feet of wetlands and will be at least 50 feet upgradient of the stockpile's perimeter silt fence. The sideslopes of the topsoil stockpile will not exceed 2:1. Silt fence will be installed around the perimeter of all topsoil stockpiles. Topsoil stockpiles will be surrounded with siltation fencing and will be temporarily seeded with Aroostook rye, annual or perennial ryegrass within 7 days of formation, or temporarily mulched.
- 6. Winter excavation and earthwork will be completed so as to minimize exposed areas while satisfactorily completing the project. Limit exposed areas to those areas in which work is to occur during the following 15 days and that can be mulched in one day. All areas will be considered denuded until the subbase gravel is installed in roadway areas or the areas of future loam and seed have been loamed, seeded, and mulched.
- Install any added measures necessary to control erosion/sedimentation. The particular measure used will be dependent upon site conditions, the size of the area to be protected, and weather conditions.
- To minimize areas without erosion control protection, continuation of earthwork operations on additional areas will not begin until the exposed soil surface on the area being worked has been stabilized.

B. TEMPORARY MEASURES

1. STABILIZED CONSTRUCTION ENTRANCE/EXIT

A crushed stone stabilized construction entrance/exit will be placed at any point of vehicular access to the site, in accordance with the detail shown on this sheet.

2. SILT FENCE

- a. Silt fence will be installed prior to all construction activity, where soil disturbance may result in erosion. Silt fence will be erected at locations shown on the plans and/or downgradient of all construction activity.
- b. Silt fences will be removed when they have served their useful purpose, but not before the upgradient areas have been permanently stabilized.
- c. Silt fences will be inspected immediately after each rainfall and at least daily during prolonged rainfall. They will be inspected if there are any signs of erosion or sedimentation below them. Any required repairs will be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, they will be replaced with a temporary crushed stone check
- d. Sediment deposits will be removed after each storm event if significant build-up has occurred or if deposits exceed half the height of the barrier.

3. STONE CHECK DAMS

Stone check dams should be installed before runoff is directed to the swale. Stone check dams will be installed in grass-lined swales and ditches during construction. Remove stone check dams when they have served their useful purpose, but not before upgradient areas have been permanently stabilized.

4. EROSION CONTROL MIX SEDIMENT BARRIER

- a. It may be necessary to cut, pack down, or remove tall grasses, brush, or woody vegetation to avoid voids and bridges that allow the washing away of fine soil
- b. Where approved, erosion control mix sediment barriers may be used as a substitute for silt fence. See the details in this drawing set for specifications.
- b. Rock Filter Berms: To provide more filtering capacity or to act as a velocity check dam, a berm's center can be composed of clean crushed rock ranging in size from the french drain stone to riprap.

5. TEMPORARY SEEDING

Stabilize disturbed areas that will not be brought to final grade and reduce problems associated with mud and dust production from exposed soil surface during construction with temporary vegetation.

6. TEMPORARY MULCHING

Use temporary mulch in the following locations and/or circumstances:

- In sensitive areas (within 100 feet of streams, wetlands and in lake watersheds) temporary mulch will be applied within 7 days of exposing spill or prior to any
- Apply temporary mulch within 14 days of disturbance or prior to any storm event in all other areas
- Areas which have been temporarily or permanently seeded will be mulched
- immediately following seeding.
- Areas which cannot be seeded within the growing season will be mulched for over-winter protection and the area will be seeded at the beginning of the growing season.
- Mulch can be used in conjunction with tree, shrub, vine, and ground cover
- Mulch anchoring will be used on slopes greater than 5 percent in late fall (past October 15), and over-winter (October 15 - April 15).

The following materials may be used for temporary mulch:

- a. Hay or Straw material shall be air-dried, free of seeds and coarse material. Apply 2 bales/1,000 sf or 1.5 to 2 tons/acre to cover 90% of ground surface.
- b. Erosion Control Mix: It can be used as a stand-alone reinforcement: 2-inches thick for slopes flatter than 3H:1V;
- 4-inches thick for slopes greater than 3H:1V;
- on slopes 2 horizontal to 1 vertical or less;
- on frozen ground or forested areas; and
- c. Erosion control mix alone is not suitable: on slopes with groundwater seepage;

at the edge of gravel parking areas and areas under construction.

- at low points with concentrated flows and in gullies;
- at the bottom of steep perimeter slopes exceeding 100 feet in length; • below culvert outlet aprons; and around catch basins and closed storm systems.

- d. Chemical Mulches and Soil Binders: Wide ranges of synthetic spray-on materials are G. OVER-WINTER CONSTRUCTION EROSION CONTROL MEASURES marketed to protect the soil surface. These are emulsions that are mixed with water and applied to the soil. They may be used alone, but most often are used to hold wood fiber, hydro-mulches or straw to the soil surface.
- e. Erosion Control Blankets and Mats: Mats are manufactured combinations of mulch and netting designed to retain soil moisture and modify soil temperature. During the growing season (April 15th to November 1st) use mats indicated on drawings or North American Green (NAG) S75 (or mulch and netting) on:
- the base of grassed waterways;
- steep slopes (15 percent or greater); and • any disturbed soil within 100 feet of lakes, streams, or wetlands.

During the late fall and winter (November 1st to April 15th) use heavy grade mats indicated on drawings for NAG SC250 on all areas noted above plus use lighter grade mats NAG S75 (or mulch and netting) on:

• sideslopes of grassed waterways; and moderate slopes (between 8 and 15

C. TEMPORARY DUST CONTROL

To prevent the blowing and movement of dust from exposed soil surfaces, and reduce the presence of dust, use water or calcium chloride to control dusting by preserving the moisture level in the road surface materials.

D. CONSTRUCTION DE-WATERING

- 1. Water from construction de-watering operations shall be cleaned of sediment before reaching wetlands, water bodies, streams or site boundaries. Utilize temporary sediment basins, erosion control soil filter berms backed by staked hav bales, A Dirt Bag 55" sediment filter bag by ACF Environmental, or other approved Best Management Practices
- 2. In sensitive areas near streams or ponds, discharge the water from the de-watering operation into a temporary sediment basin created by a surrounding filter berm of uncompacted erosion control mix immediately backed by staked hay bales (see the site details). Locate the temporary sediment basin at lease 100 feet from the nearest water body, such that the filtered water will flow through undisturbed vegetated soil areas prior to reaching the water body or property line.

E. PERMANENT MEASURES

- 1. Riprapped Aprons: All storm drain pipe outlets and the inlet and outlet of culverts will have riprap aprons to protect against scour and deterioration.
- 2. Topsoil, Seed, and Mulch: All areas disturbed during construction, but not subject to other restoration (paving, riprap, etc.) will be loamed, limed, fertilized, seeded, and

Seeded Preparation: Use stockpiled materials spread to the depths shown on the plans, if 4. Debris and other materials. Litter, construction debris, and chemicals exposed to available. Approved topsoil substitutes may be used. Grade the site as needed.

a. Seeding will be completed by August 15 of each year. Late season seeding may be done between August 15 and October 15. Areas not seeded or which do not obtain satisfactory growth by October 15, will be seeded with Aroostook Rye or mulched. After November 1, or the first killing frost, disturbed areas will be seeded at double the specified application rates, mulched, and anchored.

PERMANENT SEEDING SPECIFICATIONS OUTSIDE OF SOLAR ARRAY FOOTPRINT

Mixture:	Roadside (lbs/acre)	Lawn (lbs/acre)
Kentucky Bluegrass	20	55
White Clover	5	0
Creeping Red Fescue	20	55
Perennial Ryegrass	5	15

- b. Provide New England Meadow mix seed in areas of solar array
- c. Mulch in accordance with specifications for temporary mulching.
- d. If permanent vegetated stabilization cannot be established due to the season of the year, all exposed and disturbed areas not to undergo further disturbance are to have dormant seeding applied and be temporarily mulched to protect the site.
- 3. Ditches and Channels: All ditches on-site will be lined with North American Green S75 erosion control mesh (or an approved equal) upon installation of loam and seed.

F. WINTER CONSTRUCTION AND STABILIZATION

- 1. Natural Resource Protection: During winter construction, a double-row of sediment barriers (i.e., silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area. Projects crossing the natural resource will be protected a minimum distance of 100 feet on either side from the resource.
- 2. Sediment Barriers: During frozen conditions, sediment barriers may consist of erosion control mix berms or any other recognized sediment barriers as frozen soil prevents the proper installation of hay bales or silt fences.

3. Mulching:

- All areas will be considered to be denuded until seeded and mulched. Hay and
- straw mulch will be applied at a rate of twice the normal accepted rate. Mulch will not be spread on top of snow.
- After each day of final grading, the area will be properly stabilized with anchored
- hay or straw or erosion control matting.
- Between the dates of November 1 and April 15, all mulch will be anchored by either mulch netting, emulsion chemical, tracking or wood cellulose fiber.
- 5. Soil Stockpiling: Stockpiles of soil or subsoil will be mulched for over-winter protection with hay or straw at twice the normal rate or with a 4-inch layer of erosion control mix. This will be done within 24 hours of stocking and re-established prior to any rainfall or snowfall. Any soil stockpiles shall not be placed (even covered with mulch) within 100 feet from any natural resources. Sediment barriers should be installed downgradient of stockpiles. Stormwater shall be directed away from stockpiles.
- 6. Seeding: Dormant seeding may be placed prior to the placement of mulch or erosion control blankets. If dormant seeding is used for the site, all disturbed areas will receive 4 inches of loam and seed at an application rate of three times the rate for permanent seeding. All areas seeded during the winter will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 75 percent catch) will be revegetated by replacing loam, seed, and mulch.

If dormant seeding is not used for the site, all disturbed areas will be revegetated in the spring.

- 7. Maintenance: Maintenance measures will be applied as needed during the entire construction season. After each rainfall, snow storm, or period of thawing and runoff, and at least once a week, the site Contractor will perform a visual inspection of all installed erosion control measures and perform repairs as needed to ensure their continuous function.
- 8. Identified repairs will be started no later than the end of the net work day and be completed within seven (7) calendar days.
- Following the temporary and/or final seeding and mulching, the Contractor will, in the spring, inspect and repair any damages and/or bare spots. An established vegetative cover means a minimum of 85 to 90 percent of areas vegetated with vigorous growth.

- 1. Stabilization of Disturbed Soil: By October 15, all disturbed soils on areas having a slope less than 15 percent will be seeded and mulched. If the Contractor fails to stabilize these soils by this date, then the Contractor shall stabilize the soil for late fall and winter, by using either temporary seeding or mulching.
- 2. Stabilization of Disturbed Slopes: All slopes to be vegetated will be completed by October 15. The Owner will consider any area having a grade greater than 15 percent (6.5H:1V) to be a slope. Slopes not vegetated by October 15 will receive one of the following actions to stabilize the slope for late fall and winter:
- a. Stabilize the soil with temporary vegetation and erosion control mesh.
- b. Stabilize the slope with erosion control mix. c. Stabilize the slope with stone riprap.
- d. Slopes steeper than 1.5:1 are prohibited.
- 3. Stabilization of Ditches and Channels: All stone-lined ditches and channels to be used to convey runoff through the winter will be constructed and stabilized by November 15. Grass-lined ditches and channels will be complete by September 15. Grass-lined ditches not stabilized by September 15 shall be lined with either sod or riprap.

H. MAINTENANCE PLAN

1. Routine Maintenance: Inspection will be performed as outlined in the project's Erosion Control Plan. Inspection will be by a qualified person during wet weather to ensure that the facility performs as intended. Inspection priorities will include checking erosion controls for accumulation of sediments.

Housekeeping

- 1. Spill prevention. Controls must be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
- 2. Groundwater protection. During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.
- 3. Fugitive sediment and dust. Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control. If off-site tracking occurs roadways should be swept immediately and no loss once a week and prior to significant storm events.
- stormwater must be prevented from becoming a pollutant source.
- 5. Trench or foundation de-watering. Trench de-watering is the removal of water from trenches, foundations, coffer dams, ponds, and other areas within the construction area that retain water after excavation. In most cases the collected water is heavily silted and hinders correct and safe construction practices. The collected water must be removed from the ponded area, either through gravity or pumping, and must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved by the department.
- 6. Authorized Non-stormwater discharges. Identify and prevent contamination by non-stormwater discharges. Where allowed non-stormwater discharges exist, they must be identified and steps should be taken to ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.
- (a) Discharges from firefighting activity;

Authorized non-stormwater discharges are:

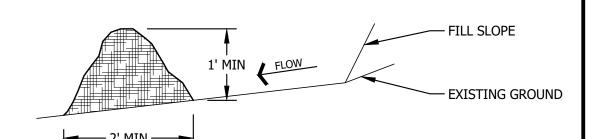
- (b) Fire hydrant flushings;
- (c) Vehicle washwater if detergents are not used and washing is limited to the exterior of vehicles (engine, undercarriage and transmission washing is prohibited);
- (d) Dust control runoff in accordance with permit conditions and section I3;
- (e) Routine external building washdown, not including surface paint removal, that does not involve detergents;
- (f) Pavement washwater (where spills/leaks of toxic or hazardous materials have not occurred, unless all spilled material had been removed) if detergents are not used;
- (g) Uncontaminated air conditioning or compressor condensate;
- (h) Uncontaminated groundwater or spring water; (i) Foundation or footer drain-water where flows are not contaminated;
- (j) Uncontaminated excavation dewatering (see requirements in section I5);
- (k) Potable water sources including waterline flushings; and
- (l) Landscape irrigation.
- Unauthorized non-stormwater discharges. The Department's approval under this Chapter does not authorize a discharge that is mixed with a source of non stormwater, other than those discharges in compliance with section I6. Specifically, the Department's approval does not authorize discharges of the following:
- (a) Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds or other construction materials;
- (b) Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance;
- (c) Soaps, solvents, or detergents used in vehicle and equipment washing; and
- (d) Toxic or hazardous substances from a spill or other release.
- 8. Additional requirements. Additional requirements may be applied on a site-specific basis.

J. CONSTRUCTION SEQUENCE

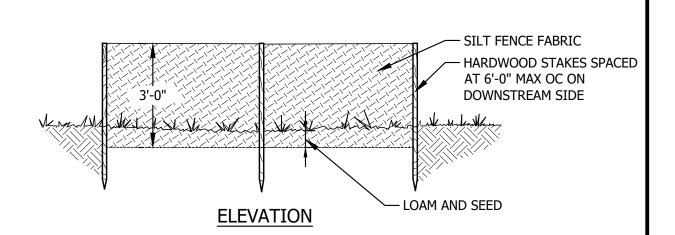
In general, the expected sequence of construction for each phase is provided below. Construction is proposed to start in Fall 2023 and end in 2024.

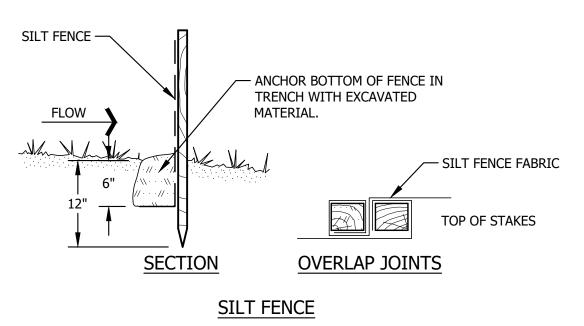
- Mobilization Install temporary erosion control measures Clearing and grubbing
- Site Grading Install gravel access road
- Install site utilities and solar panels
- Site stabilization, loam and seed, and landscaping

- 1. EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE SITE. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, REPROCESSED WOOD PRODUCTS OR BARK CHIPS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH.
- THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
- A. ORGANIC MATERIAL: BETWEEN 20% 100% (DRY WEIGHT BASIS) B. PARTICLE SIZE: BY WEIGHT, 100% PASSING 6" SCREEN, 70-85% PASSING 0.75" SCREEN
- C. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED. D. LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
- E. SOLUBLE SALTS CONTENT SHALL BE LESS THAN 4.0 MMHOS/CM.
- F. PH: 5.0 8.0
- 2. ON SLOPES LESS THAN 5% OR AT THE BOTTOM OF SLOPES 2:1 OR LESS UP TO 20 FEET LONG, THE BARRIER MUST CONFORM TO THE ABOVE DIMENSIONS. ON THE LONGER OR STEEPER SLOPES, THE BARRIER SHOULD BE WIDER TO ACCOMMODATE THE ADDITIONAL
- 3. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL ELEVATION. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
- 4. LOCATIONS WHERE OTHER BMP'S SHOULD BE USED:
 - A. AT LOW POINTS OF CONCENTRATED FLOW
 - B. BELOW CULVERT OUTLET APRONS C. WHERE A PREVIOUS STAND-ALONE EROSION CONTROL MIX APPLICATION HAS FAILED
 - D. AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM (LARGE UPGRADIENT WATERSHED)
- E. AROUND CATCH BASINS AND CLOSED STORM DRAIN SYSTEMS.
- THE EROSION CONTROL MIX BARRIERS SHOULD BE INSPECTED REGULARLY AND AFTER EACH LARGE RAINFALL. REPAIR ALL DAMAGED SECTIONS OF BERM IMMEDIATELY BY REPLACING OR ADDING ADDITIONAL MATERIAL PLACED ON THE BERM TO THE DESIRED HEIGHT AND WIDTH.
- 6. IT MAY BE NECESSARY TO REINFORCE THE BARRIER WITH SILT FENCE OR STONE CHECK DAMS IF THERE ARE SIGNS OF UNDERCUTTING OR THE IMPOUNDMENT OF LARGE VOLUMES OF WATER
- 7. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 8. REPLACE SECTIONS OF BERM THAT DECOMPOSE, BECOME CLOGGED WITH SEDIMENT OR OTHERWISE BECOME INEFFECTIVE. THE BARRIER SHOULD BE RESHAPED AS NEEDED.
- 9. EROSION CONTROL MIX BARRIERS CAN BE LEFT IN PLACE AFTER CONSTRUCTION. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER BARRIER IS NO LONGER REQUIRED SHOULD BE SPREAD TO CONFORM TO THE EXISTING GRADE AND BE SEEDED AND MULCHED. WOODY VEGETATION CAN BE PLANTED INTO THE BARRIERS, OR THEY CAN BE OVER-SEEDED WITH LEGUMES. IF THE BARRIER NEEDS TO BE REMOVED, IT CAN BE SPREAD OUT INTO THE LANDSCAPE.



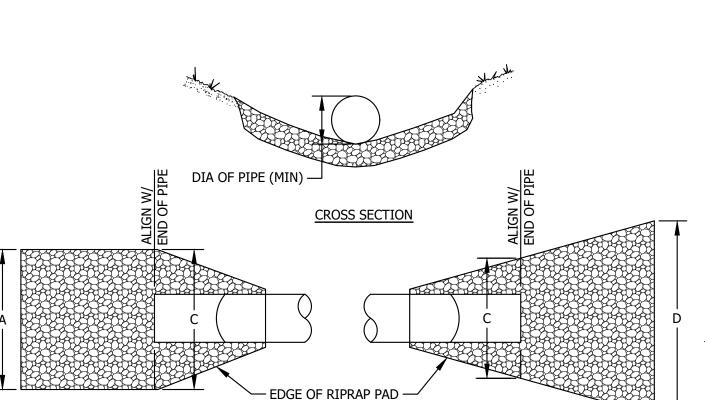
EROSION CONTROL MIX SEDIMENT BARRIER

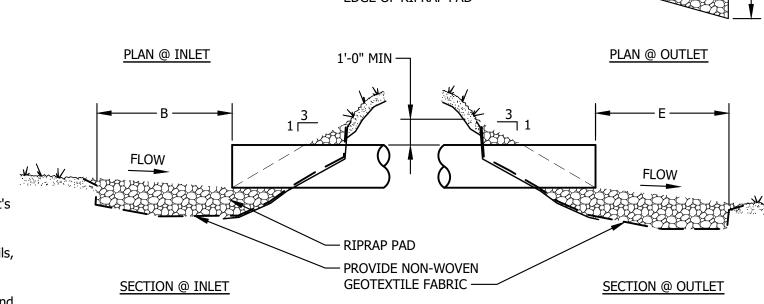


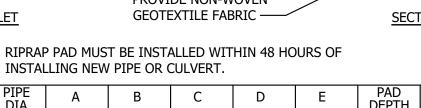


CONTRACTORS OPTION TO USE SEDIMENT BARRIER OR SILT FENCE FOR SLOPE PROTECTION.

SURFACE DRAINAGE SEDIMENT CONTROL







4 FT.

8 FT.

10 FT

10"

16"

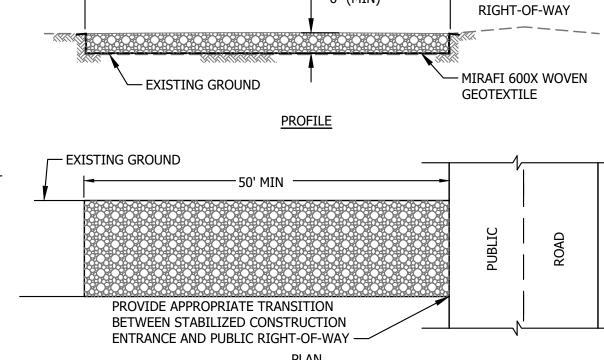
RIPRAP INLET/OUTLET PROTECTION

			NTS	ı
			1110	L
				1
				1
2	DPD	10/2023	REISSUED FOR CONSTRUCTION	1
	DPD	7/2023	ISSUED FOR CONSTRUCTION	1
	DPD	3/2023	ISSUED FOR BID	1
	DPD	8/2022	ISSUED FOR PERMIT REVIEW	1
REV.	BY	DATE	STATUS	1

3 FT. | 2 FT. | 3 FT.

15" | 3.75 FT. | 2.5 FT. | 3.75 FT. | 5 FT.

18" | 4.5 FT | 3 FT | 4.5 FT | 8 FT

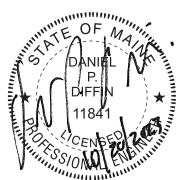


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - 2" TO 3" STONE OR RECLAIMED OR RECYCLED CONCRETE, OR EQUIVALENT.

- 3. LENGTH AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- 4. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 5. WIDTH 10 FEET MINIMUM, OR NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC REPAIR AND TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED

ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. STABILIZED CONSTRUCTION ENTRANCE/EXIT

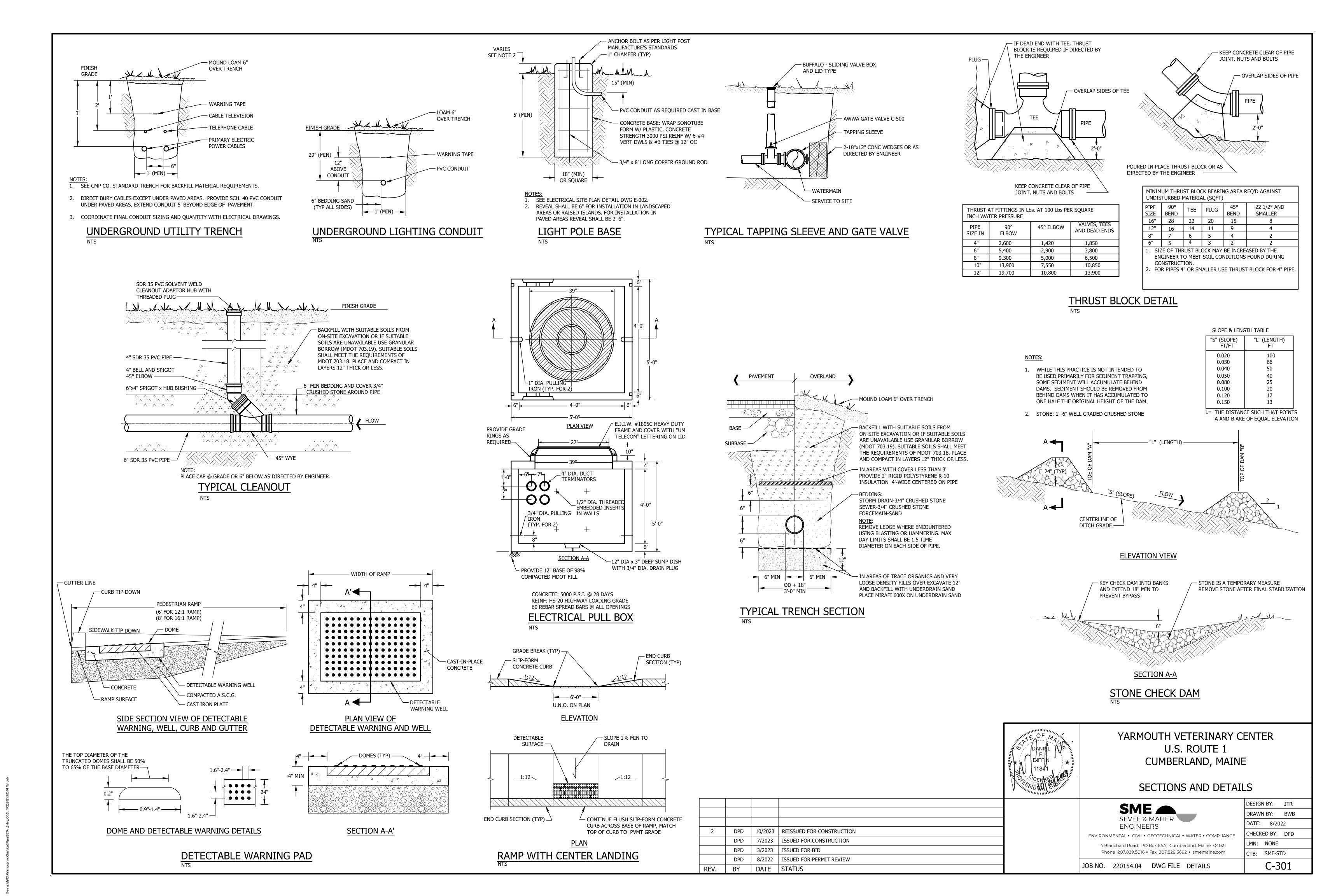


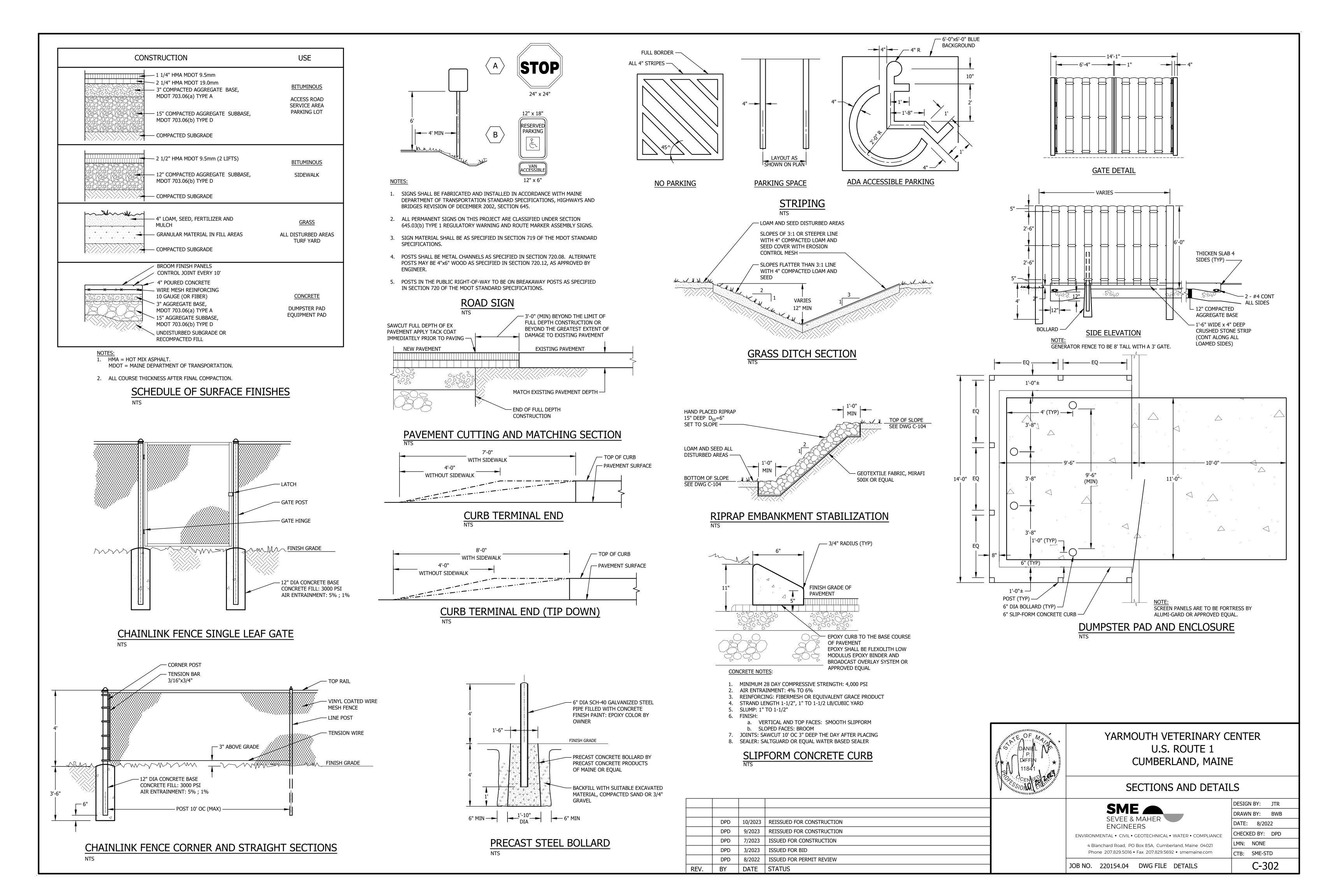
YARMOUTH VETERINARY CENTER U.S. ROUTE 1 CUMBERLAND, MAINE

EROSION CONTROL NOTES AND DETAILS

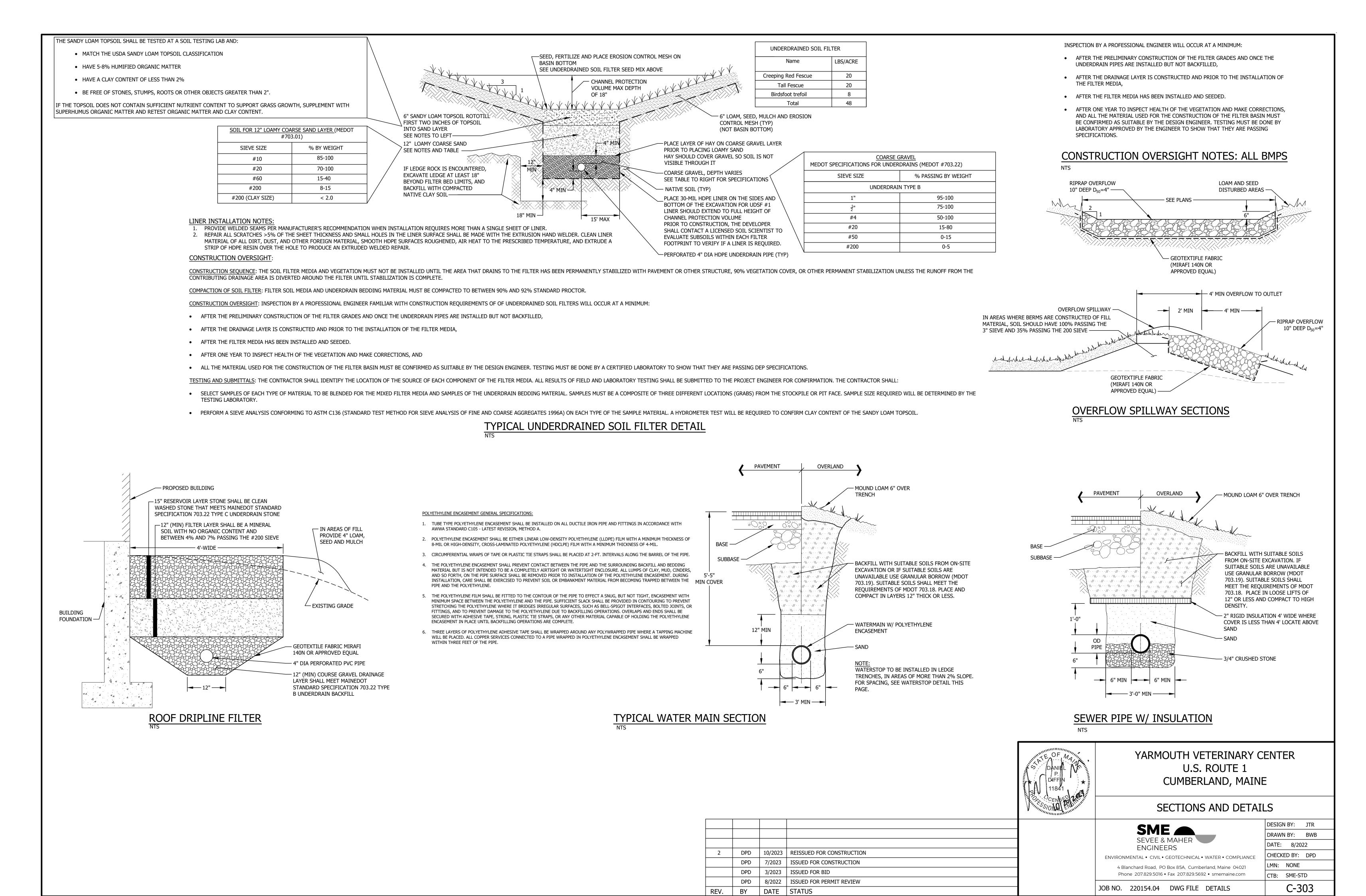


_MN: NONE Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com CTB: SME-STD C-300 JOB NO. 220154.04 DWG FILE DETAILS

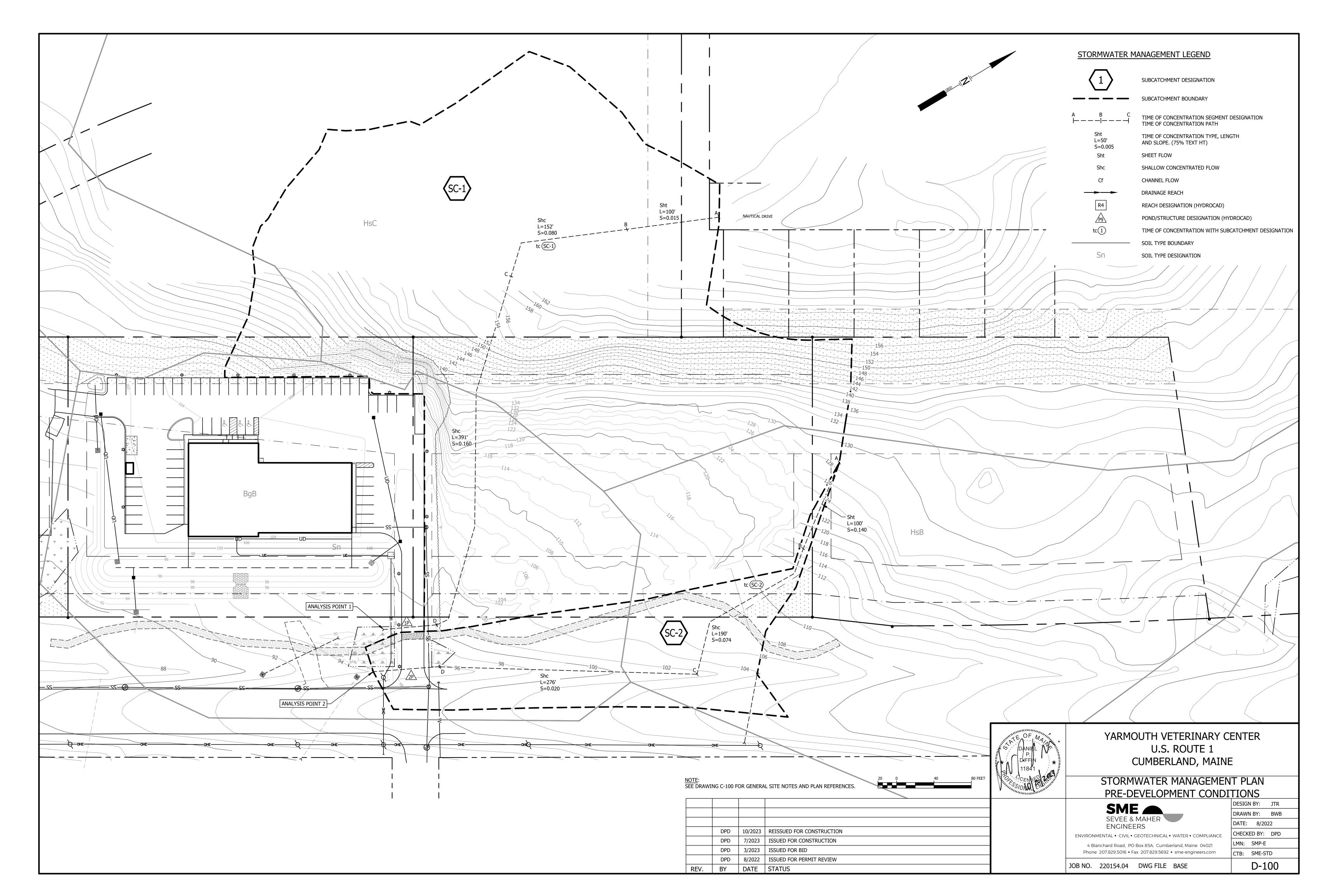


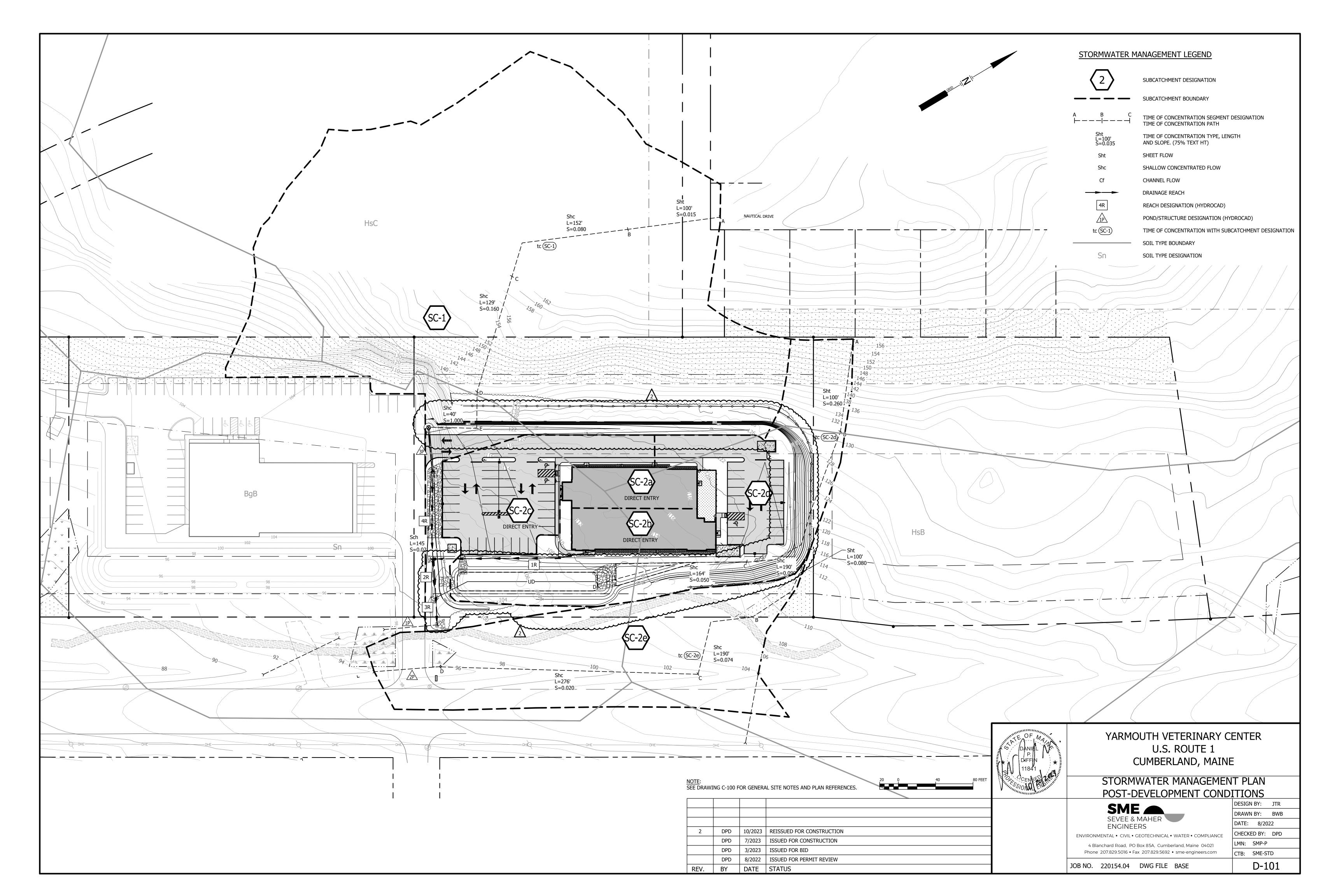


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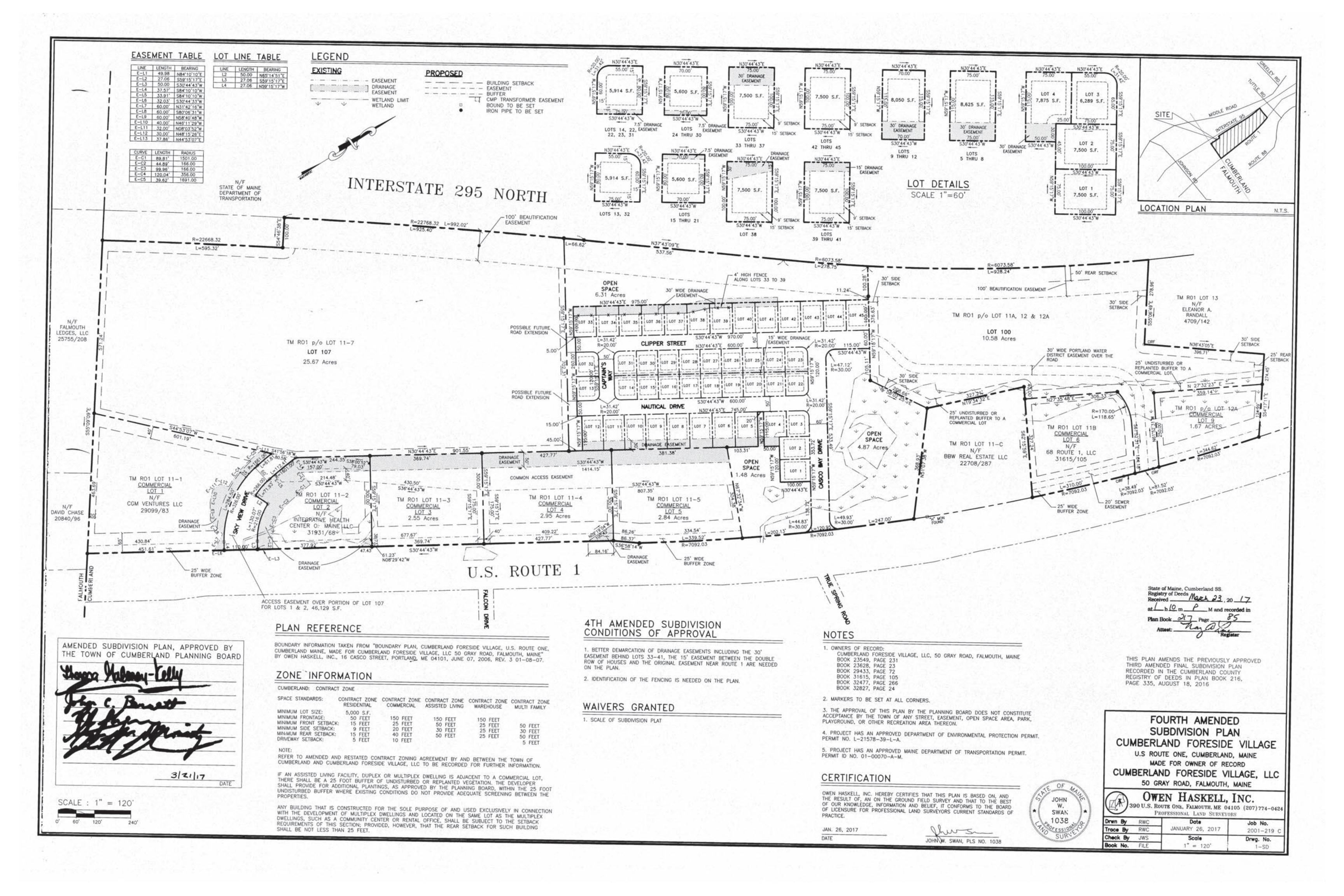


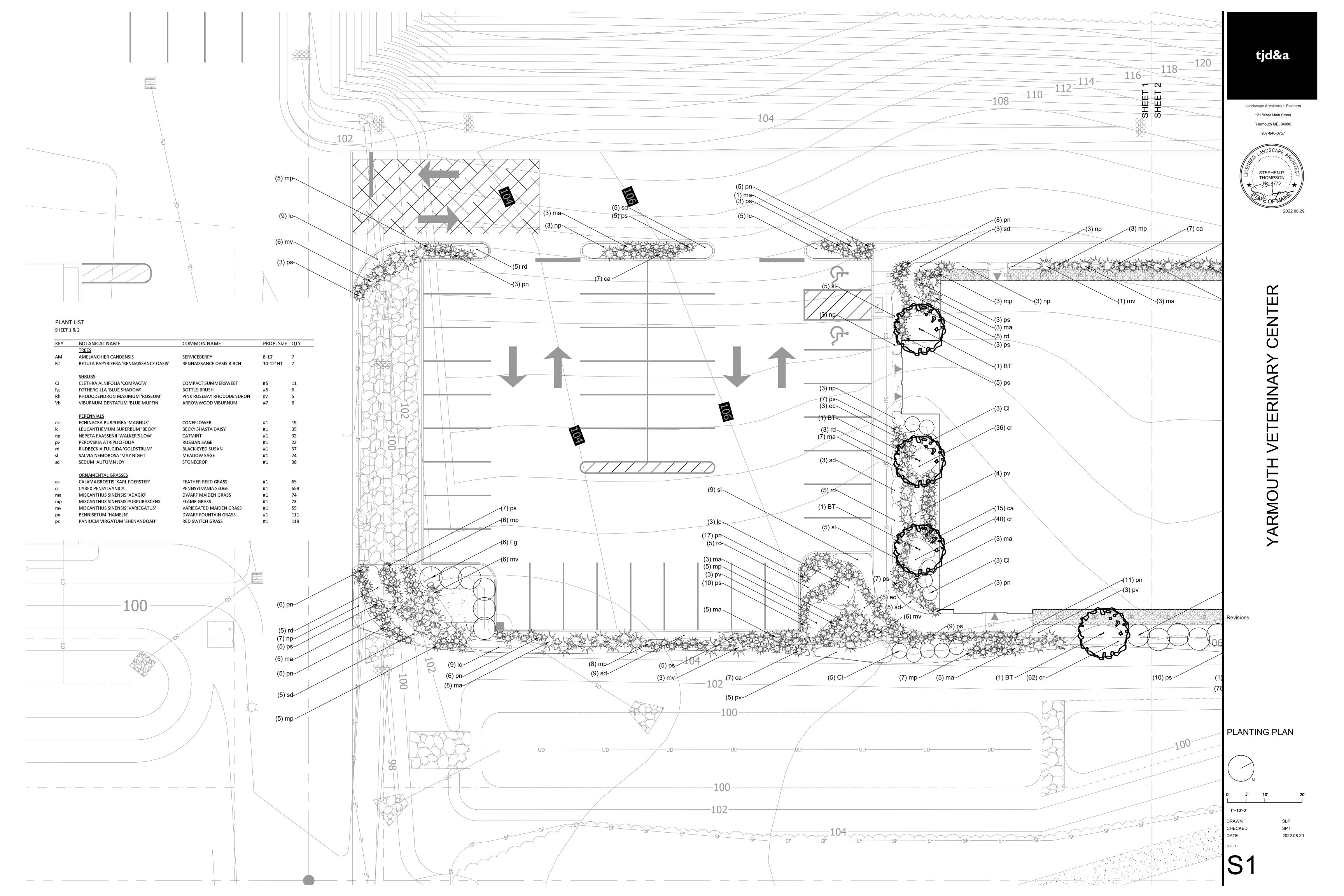
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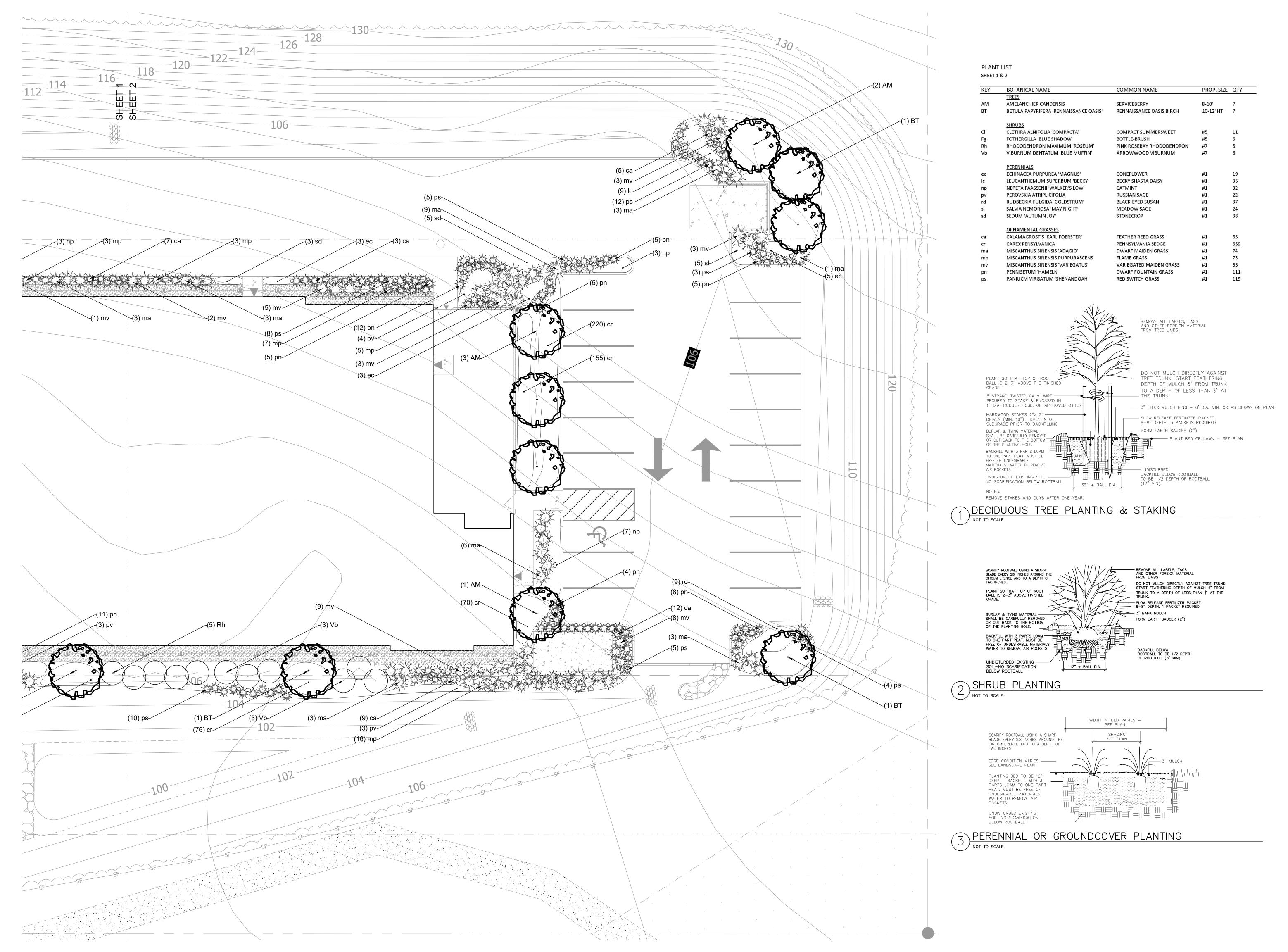




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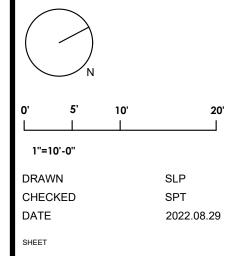
Landscape Architects + Planners 121 West Main Street Yarmouth ME, 04096 207-846-0757



RINA

Revisions

PLANTING PLAN



 $^+$ 00 * $^{+}$ 0 1 $^{+}$ 0 0 1 0 0 1 0 0 0 1 0 $^{+}0.9$ $^{+}1.1$ $^{-}1.4$ $^{-}1.7$ $^{-}1.9$ $^{-}2.2$ $^{+}2.7$ $^{+}3.0$ $^{+}3.1$ $^{+}3.0$ $^{+}2.6$ $^{-}2.3$ $^{-}2.0$ $^{-}1.8$ $^{+}1.5$ $^{+}1.1$ $^{+}0.8$ $^{+}0.5$ $^{+}0.4$ $^{+}0.3$ $^{+}0.2$ $^{+}0.1$ $^{+}0.1$ $^{+}0.1$ $^{+}0.1$ $^+0.0$ $^+0.$

Plan View

Scale - 1" = 12ft

NOTES

-REFLECTANCES ASSUMED: GROUND: 20

- MOUNTING HEIGHTS: 20'-0" AFG

- TASK HEIGHT: AFG - CALCULATION POINT SPACING: 5'X5' OC DISCLAIMER:

-THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION. VALUES REPRESENTED ARE AN APPROXIMATION GENERATED FROM MANUFACTURERS PHOTOMETRIC IN-HOUSE OR INDEPENDANT LAB TEST WITH DATA SUPPLIED BY LAMP MANUFACTURERS.

SCHEDULE							
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Light Loss Factor	Wattage
	SL1	2	Lithonia Lighting	DSX0 LED P5 30K T3M VOLTAGE MOUNTING XX XX FINISH *Single Head Pole Mounted @ 25'*	DSXO LED P5 30K T3M VOLTAGE MOUNTING XX XX FINISH *Single Head Pole Mounted @ 25'*	0.9	89
	SL1A	1	Lithonia Lighting	DSX0 LED P5 30K T3M VOLTAGE MOUNTING XX XX FINISH *Twin Head Pole Mounted @ 25'*	DSX0 LED P5 30K T3M VOLTAGE MOUNTING XX XX FINISH *Twin Head Pole Mounted @ 25'*	0.9	178
	SL2	2	Lithonia Lighting	DSX0 LED P5 30K TFTM VOLTAGE MOUNTING XX XX FINISH *Single Head Pole Mounted @ 25'*	DSXO LED P5 30K TFTM VOLTAGE MOUNTING XX XX FINISH *Single Head Pole Mounted @ 25'*	0.9	89

STATISTICS								
DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN		
Calc Zone #1	+	0.6 fc	5.6 fc	0.0 fc	N/A	N/A		
Left Parking Area	+	2.5 fc	5.6 fc	0.6 fc	9.3:1	4.2:1		
Right Parking Area	+	1.8 fc	3.4 fc	0.3 fc	11.3:1	6.0:1		

