

**TEMPORARY SEEDING SPECIFICATIONS:**  
 USE JONATHAN GREEN "CONTRACTOR'S" MIXTURE  
 75% ANNUAL RYGRASS  
 13% PERENNIAL RYGRASS  
 6% CREEPING RED FESCUE  
 6% KENTUCKY BLUEGRASS  
 ESTABLISH TEMPORARY VEGETATION:  
 1. ON ALL TEMPORARY TOPSOIL STOCKPILES  
 2. WITHIN 7 DAYS OF SUSPENDING WORK ON A GRADING OPERATION THAT EXPOSES ERODIBLE SOILS WHERE SUCH SUSPENSION IS EXPECTED TO LAST FOR 1 TO 12 MONTHS.

**GENERAL GRADING NOTES:**  
 1. SET/RAISE FRAMES OF ALL MANHOLES, CATCH BASINS, GAS AND WATER GATES, HAND HOLES, METER BOXES, AND ALL OTHER UTILITY APPURTENANCES TO MATCH PROPOSED FINISH GRADE.  
 2. MILL AND SAW CUT EXISTING PAVEMENT ALONG LIMITS OF WORK. BLEND ALL NEW WORK TO MATCH EXISTING. CONSTRUCT PAVEMENT MATCH DETAIL.  
 3. GRADE ALL AREAS TO PRECLUDE PONDING.  
 4. ALL WORK WITHIN HIGHWAY R.O.W. WILL REQUIRE AN ENCROACHMENT PERMIT FROM CT DOT.

**CONSTRUCTION SEQUENCE/PHASING:**

- In general, the overall project will follow the sequence below:
- Contact "call before you dig" at 1-800-922-4465 at least 48 hours prior to the start of construction to have existing utilities marked.
  - Attend a pre-construction meeting with the Owner, Project Engineer, and Town of Ellington staff.
  - Place sediment fence and combination sediment fence/sediment logs barriers as shown to establish perimeter controls, prior to the start of any excavation or topsoil stripping activities.
  - Install construction entrance/exit to West Road.
  - Strip topsoil for water quality basin and perimeter swale/berm construction. Stockpile and stabilize topsoil piles with perimeter silt fencing and temporary seeding.
  - Rough grade water quality basin, construct containment berm, install outlet structures and piping. Stockpile and stabilize excavated subsoil stockpiles with perimeter silt fencing.
  - Construct drainage inlets and storm drain structures that drain to water quality basin. Install erosion control outlet protections.
  - Topsoil, seed and mulch detention basin berms, side slopes and bottom. Install erosion control blankets.
  - Construct vegetated perimeter swales, stabilize with topsoil and seed.
  - Rough grade for drive construction. Construct subbase, processed base course, and fill slopes. Stabilize fill slopes by topsoil and seeding and installing erosion control blankets.
  - Construct foundations for bridge crossing. Install bridge.
  - Construct gravel drive sections for main drive (24-foot), access drive to rear parcel (20-foot), perimeter drive around water quality basin (18-foot), and 10-foot golf cart path.
  - Install pavement binder course and wearing course to form driveway apron adjacent to West Road. Install pavement markings and signs.
  - Construct gravel drive section in Storage Yard. Provide gravel section connections between main gravel drive and storage yard to facilitate truck access.
  - Place topsoil and establish lawns along all disturbed areas.
  - Remove erosion controls after disturbed areas are landscaped and mulched or new lawn areas are stabilized. Complete final cleaning of storm sewer system.

**LEGEND**

	PROPOSED SPOT GRADE
	PROPOSED ELEVATION CONTOUR
	EXISTING ELEVATION CONTOUR
	EXISTING SPOT GRADE
	PROP. CONSTRUCTION EXIT (CE)
	PROP. SEDIMENT FENCE EROSION CONTROL (SFEC)
	PROP. INLET PROTECTION (IP) [SILT SACK INSERT]
	PROP. SEDIMENT LOG (SL)
	PROP. CATCH BASIN

The approximate date for start of construction is spring 2020. The estimated completion date is fall of 2020.

**PERMANENT SEED TYPES**

Seed Type A	Seed Type B
New England Conservation / Wildlife Mix	New England Wetland
By: New England Wetland Plants, Inc. or approved equal	By: New England Wetland Plants, Inc. or approved equal
Seed rate: 25 pounds per Acre	Seed rate: 1 pound per 5,000 square feet
Big Bluestem ( <i>Andropogon gerardii</i> ), Little Bluestem ( <i>Schizochyrium scoparium</i> ), Switchgrass ( <i>Panicum virgatum</i> ), Dactyloctenium ( <i>Panicum clandestinum</i> ), Fowl Bluegrass ( <i>Poa palustris</i> ), Canada Wild-rice ( <i>Elymus canadensis</i> ), Pennsylvanian Smartweed ( <i>Polygonum persicivivum</i> ), Partridge Pea ( <i>Chamaecrista fasciculata</i> ), Annual Sunflower ( <i>Helianthus annuus</i> ), Shovel Tick-bell ( <i>Desmodium canadense</i> ), Common Milkweed ( <i>Asclepias syriaca</i> ), New York Aster ( <i>Aster novi-belgii</i> ), Wooding Blue-marigold ( <i>Bidens cernua</i> )	Ford Bluegrass ( <i>Poa palustris</i> ), Flunged Sedge ( <i>Carex stricta</i> ), Water Plantain ( <i>Alisma plantago-aquatica</i> ), Chufa ( <i>Cyperus esculentus</i> ), Green Bulrush ( <i>Scirpus atrovirens</i> ), Soft Rush ( <i>Juncus effusus</i> ), Broadleaf Sedges ( <i>Carex comosa</i> ), Leaf Sedge ( <i>Carex lasiocarpa</i> ), Hair Sedge ( <i>Carex lasiocarpa</i> ), Borealis ( <i>Elymus perfoliatus</i> ), New York Aster ( <i>Aster novi-belgii</i> ), Swamp Aster ( <i>Aster punctatus</i> ), Spotted Joe-Pye Weed ( <i>Eupatorium maculatum</i> ), Blue Vervain ( <i>Verbena hastata</i> ), Woodruff ( <i>Galium aparine</i> )

**WETLAND IMPACTS:**  
 NORTH: 10.38% DISTURBED - 10,900 S.F. TOTAL - 95,545 S.F. (2.2 AC.)  
 SOUTH: 10.38% DISTURBED - 10,900 S.F. TOTAL - 105,000 S.F. (2.4 AC.)

**RIP RAP PLUNGE POOL NOTE:**  
 AT ALL STORMWATER OUTFALLS WHERE RIP RAP PLUNGE POOLS ARE SHOWN SUPPLEMENT WITH ADDITIONAL RIP RAP LINING (MODIFIED RIP RAP) TO PROVIDE EROSION CONTROL PROTECTION IN THE FORM OF AN APRON FROM THE LIMITS OF THE OUTER SIDE EDGES OF THE PLUNGE POOL TO THE BOTTOM OF THE BASIN FOR THE APPROXIMATE LIMITS SHOWN. SHAPE TO SPREAD FLOW EVENLY. CONTRACTOR TO COORDINATE THE LIMITS WITH THE DESIGN ENGINEER DURING CONSTRUCTION.

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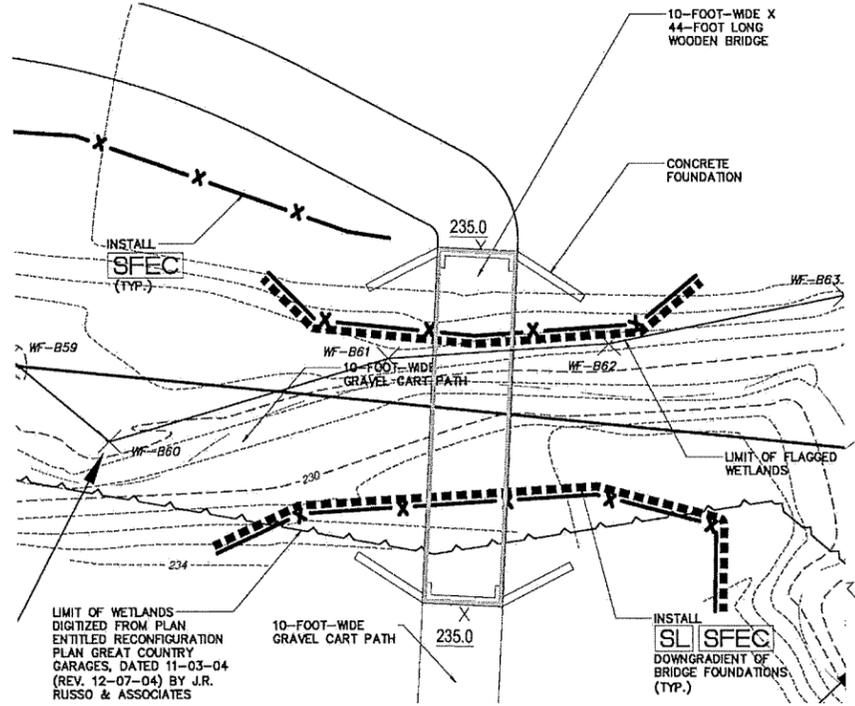
Revisions:

No.	Date	Description
1	01-24-2020	EPC Submittal
2	02-07-2020	Town Comments

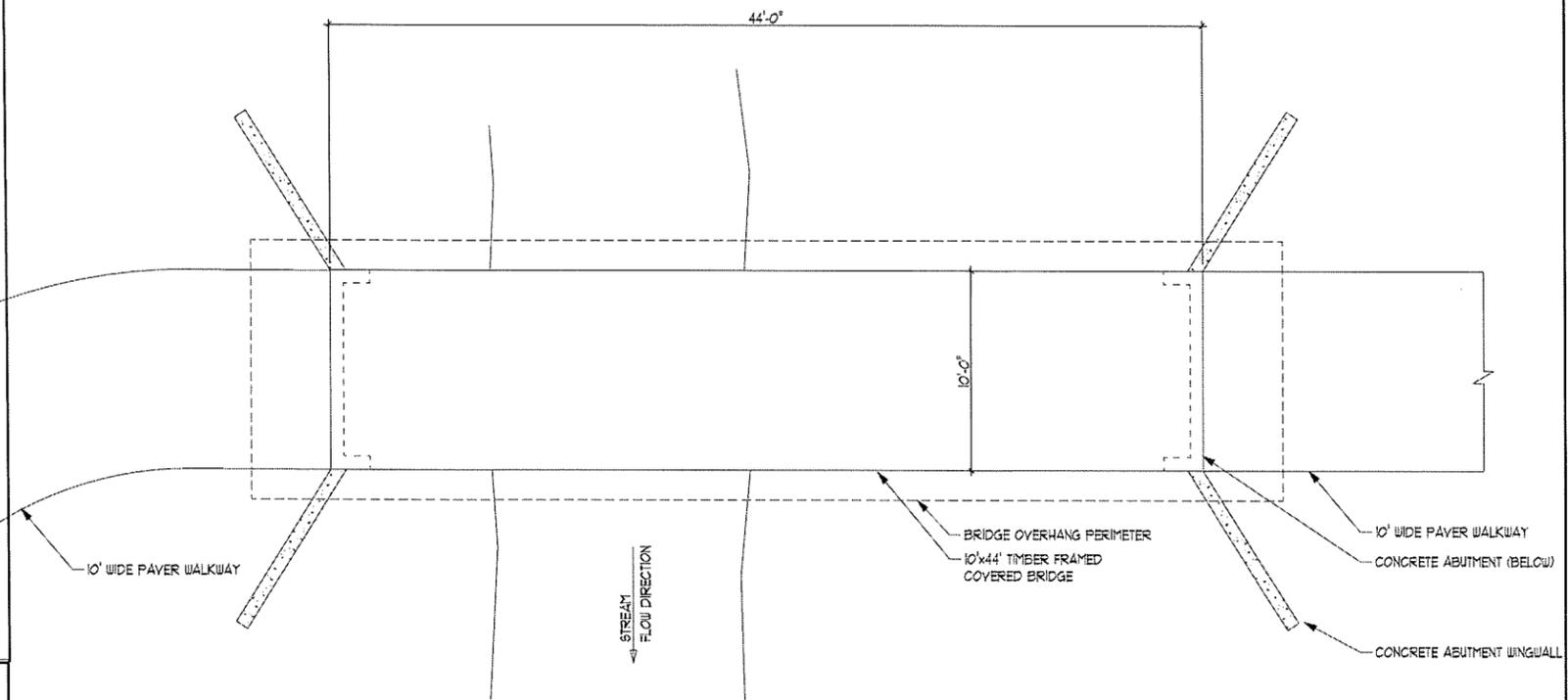
GRADING, DRAINAGE & SOIL EROSION AND SEDIMENT CONTROL PLAN  
 PREPARED FOR  
**SKINNER & SCHNEIDER PARTIES**  
 130 WEST ROAD  
 ELLINGTON, CONNECTICUT  
 Date: 01-10-2020 Drawn by: DRT Job no.: 19171  
 Scale: 1" = 60' Checked by: GGH Sheet no.: 1 OF 1

**GR-1**

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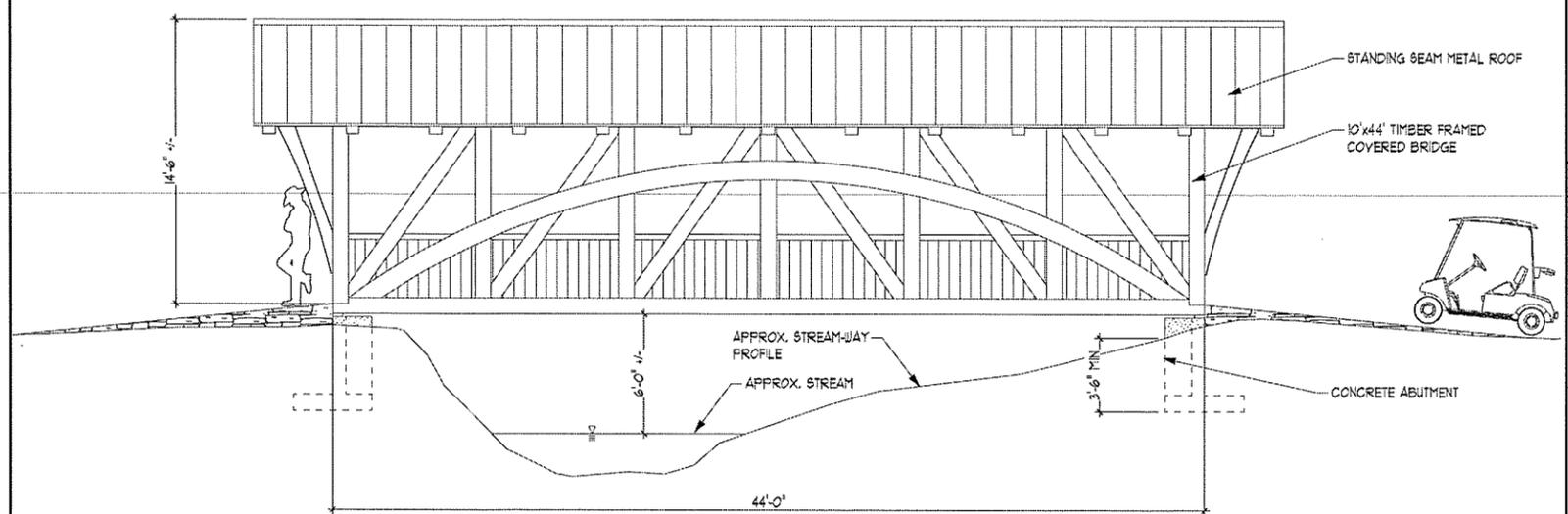
**BRIDGE CROSSING DETAIL 1"=10'**



**COVERED BRIDGE - PLAN VIEW**  
SCALE 1/4"=1'-0"



**COVERED BRIDGE - RENDERING**



**COVERED BRIDGE - ELEVATION**  
SCALE 1/4"=1'-0"

No.	Date	Description
1	01-24-2020	P20-Submittal

Revisions:

**SKINNER & SCHNEIDER PARTIES**  
130 WEST ROAD  
ELLINGTON, CONNECTICUT

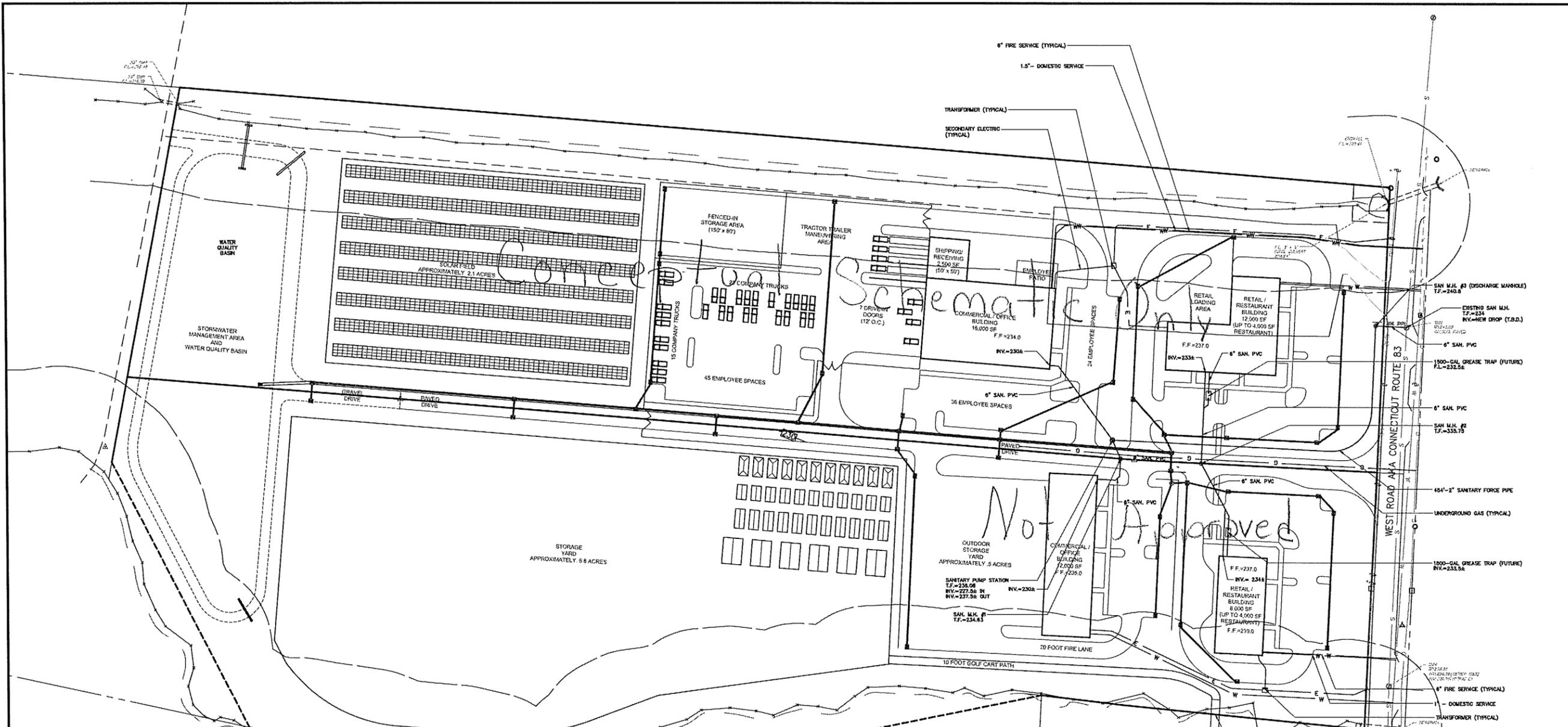
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Checked by: GAH Sheet no: 1 OF 1  
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**FAH**

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Civil & Traffic Engineers - Surveyors - Planners - Landscape Architects

**SD-3**



**UTILITY NOTES:**

- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE BASED ON AVAILABLE AS-BUILT INFORMATION FROM UTILITY COMPANY RECORDS, THE PROPERTY OWNER, AND LIMITED SURVEY DATA. ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THOSE SHOWN MAY NOT BE ACCURATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES ON THE SITE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY AND NOTIFYING THE DESIGN SITE ENGINEER OF POTENTIAL CONFLICTS WITH PROPOSED ALIGNMENT AND GRADE AND/OR ANY ADJUSTMENTS TO THE PLANS WHICH ARE NECESSARY. TEST PITS WILL BE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS IN ORDER TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND TO IDENTIFY POTENTIAL CONFLICTS WITH VERTICAL AND HORIZONTAL ALIGNMENTS SHOWN ON THE PLANS. TEST PITS SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
- CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 TO MARK THE LOCATION OF ALL UNDERGROUND UTILITIES AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- A PRE-CONSTRUCTION MEETING WITH TOWN STAFF SHALL BE HELD PRIOR TO START OF CONSTRUCTION.
- REMOVE/ABANDON ALL EXISTING UTILITIES REQUIRED FOR CONSTRUCTION OF SITE IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. ALL WORK SHALL BE IN ACCORDANCE WITH CUSTODIAL UTILITY COMPANY REQUIREMENTS. CONSULT WITH CUSTODIAL UTILITY COMPANY AND ENGINEER PRIOR TO ABANDONING UTILITIES.
- ALL MATERIALS AND INSTALLATION ARE TO BE IN ACCORDANCE WITH THE TOWN OF ELLINGTON, CT, D.O.T. FORM B17, OR CUSTODIAL UTILITY COMPANY SPECIFICATION, AS APPROPRIATE.
- ALL NEW SITE UTILITIES ARE TO BE INSTALLED UNDERGROUND, UNLESS INDICATED OTHERWISE.
- ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY APPLICABLE REQUIREMENTS. FINAL LOCATION OF UTILITY CONNECTIONS IS SUBJECT TO REVISION BY INDIVIDUAL UTILITY COMPANIES PRIOR TO THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK WITH THE APPLICABLE UTILITY COMPANIES.
- FLOW LINE AND INVERT ELEVATIONS OF ALL STORM AND SANITARY SEWERS MUST BE COORDINATED WITH FINAL ARCHITECTURAL DRAWINGS. NOTIFY DESIGN ENGINEER OF CONFLICTS PRIOR TO START OF CONSTRUCTION.
- CONNECT ALL ROOF LEADERS AND FOOTING DRAINS INTO NEW STORM DRAINAGE SYSTEMS DRAINING TO WATER QUALITY BASIN, AS SHOWN.
- WATER SERVICE AND FIRE SERVICE INSTALLATION IS TO BE COORDINATED WITH THE CONNECTICUT WATER COMPANY (CWC) OFFICIALS PRIOR TO THE START OF WORK BY THE CONTRACTOR.
- BEFORE THE WATER MAIN OR WATER SERVICE LINES ARE PLACED INTO SERVICE, THEY SHALL BE INSPECTED, FLUSHED, SANITIZED, AND TESTED AND FOUND TO BE IN COMPLIANCE WITH CWC STANDARDS AND SPECIFICATIONS.
- ALL WORK ON THE SANITARY SEWER SHALL BE IN ACCORDANCE WITH THE TOWN OF ELLINGTON WATER POLLUTION CONTROL AUTHORITY (WPCA).
- BEFORE THE SANITARY SEWER SYSTEM IS PLACED INTO SERVICE, IT IS TO BE INSPECTED, TESTED AND FOUND TO BE IN COMPLIANCE WITH THE TOWN OF ELLINGTON WPCA STANDARDS AND SPECIFICATIONS.
- ALL WORK RELATED TO GAS, ELECTRIC, TELEPHONE AND COMMUNICATION SERVICE SHALL BE IN ACCORDANCE WITH THE CUSTODIAL UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
- WHEN TRENCHING IS REQUIRED IN THE STATE R.O.W., BACKFILL AND COMPACT FILL AND CONSTRUCT PAVEMENT REPAIR IN ACCORDANCE WITH CT DOT STANDARDS AND SPECIFICATIONS.
- COORDINATE PLACEMENT OF TRANSFORMER AND ROUTING OF UTILITY SERVICE WITH EVERSOURCE OFFICIALS.
- RELOCATE OR RESET, AS APPROPRIATE, ALL ELECTRIC, TELEPHONE, COMMUNICATION SERVICE HANDHOLES, MANHOLES, PULL BOXES, ETC., AS REQUIRED, FOR COMPLETION OF WORK. COORDINATE RELOCATIONS OR RESETTING WITH CUSTODIAL UTILITY COMPANY REPRESENTATIVES.
- RCP = REINFORCED CONCRETE PIPE (CLASS IV OR V AS SHOWN ON THE PLANS) CONFORMING TO CT DOT FORM B17, M.08.01-7.
- RCFES = REINFORCED CONCRETE FLARED END SECTION (CLASS IV OR V AS SHOWN ON THE PLANS) CONFORMING TO CT DOT FORM B17, M.08.01-11.
- PVC: DRAIN PIPE = SCH. 40 PVC PIPE CONFORMING TO CT DOT FORM B17, M.08.01-21
- CPE = CORRUGATED POLYETHYLENE PIPE CONFORMING TO CT DOT B17, M.08.01-18, TYPE S.
- CATCH BASINS, MANHOLES, AND OTHER DRAINAGE STRUCTURES SHALL CONFORM TO CONN. D.O.T. FORM B17 SECTION M.08.02.
- WATER MAIN, WATER SERVICE PIPING, FITTINGS, VALVES, HYDRANTS, CORPORATIONS, ETC. SHALL CONFORM TO THE CONNECTICUT WATER COMPANY (CWC) STANDARDS AND SPECIFICATIONS.
- ALL WATER AND FIRE MAIN AND SERVICE PIPING SHALL BE ANSI/AWWA C151/A21.51 C.L.D.I.P. CLASS 52, UNLESS OTHERWISE SPECIFIED. ALL WATER SERVICE SHALL HAVE A MINIMUM COVER OF 4 1/2 FEET.
- ALL WATER AND FIRE SERVICE FITTINGS AND VALVES SHALL BE MECHANICAL JOINT AND SHALL BE RESTRAINED USING JOINT RETAINER GLANDS AND RODS, UNLESS OTHERWISE SPECIFIED. ALL VALVES SHALL OPEN LEFT.
- PVC SAN. SEWER PIPE = SDR 35 PVC PIPE W/ PUSH-ON GASKETED JOINTS.
- C.L.D.I.P. = CLASS 52 CEMENT-LINED DUCTILE IRON PIPE.
- ALL SANITARY SEWER PIPES, FITTINGS, MANHOLES AND ACCESSORIES SHALL CONFORM TO THE TOWN OF ELLINGTON WPCA STANDARDS AND SPECIFICATIONS.
- WORK WITHIN THE STATE HIGHWAY RIGHT OF WAY WILL REQUIRE AN ENCROACHMENT PERMIT FROM THE CT DOT DISTRICT 1 OFFICE. THE CONTRACTOR SHALL OBTAIN SAID PERMIT PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES. ALL WORK WITHIN THE STATE HIGHWAY RIGHT OF WAY SHALL CONFORM TO THE CONDITIONS OF THE CT DOT ENCROACHMENT PERMIT.

**LEGEND**

- ☐ = PROPOSED CATCH BASIN
- ⊙ = PROPOSED SANITARY MANHOLE
- ⊙ = PROPOSED DRAINAGE MANHOLE
- ▶ = PROPOSED FLARED END SECTION
- = PROPOSED STORM DRAIN CULVERT
- W — = PROPOSED WATER LINE
- E — = PROPOSED ELECTRIC LINE
- T — = PROPOSED TEL., COMM. LINE
- RL — = PROPOSED ROOF LEADER
- ★ = PROPOSED LIGHT STANDARD
- ⊙ = PROPOSED SANITARY PUMP STATION
- ↗ = PROPOSED WATER LINE BEND
- = PROPOSED WATER GATE VALVE
- X — = PROPOSED STORM DRAINAGE
- ⊙ — = PROPOSED SANITARY SEWER
- G — = PROPOSED GAS LINE

**For Reference Only**

No.	Date	Description

PRELIMINARY UTILITY PLAN  
 PREPARED FOR  
**SKINNER & SCHNEIDER PARTIES**  
 130 WEST ROAD  
 ELLINGTON, CONNECTICUT  
 Date: 01-10-2020 Drawn by: DRT Job no.: 19171  
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**UT-1**

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