

LEGEND

- 3.36 --- EXISTING CONTOUR
- --- APPROXIMATE PROPERTY LINE
- o IRON PIN
- SS --- GRAVITY SEWER LINE
- FM --- FORCE MAIN
- W --- WATER LINE
- OE --- OVERHEAD ELECTRIC
- UE --- UNDERGROUND ELECTRIC
- ST --- STORM DRAINAGE LINE
- ⊙ SEWER MANHOLE
- ⊙ STORM MANHOLE
- ⊙ HYDRANT
- ⊙ SHUT-OFF
- ⊙ POWER POLE
- ⊙ CATCH BASIN
- ⊙ LIGHT POLE
- ⊙ SIGN
- ⊙ DECIDUOUS TREE
- ⊙ CONIFEROUS TREE
- EDGE OF BRUSH/WOODS
- FENCE
- DRAINAGE SWALE

PUMP STATION DESIGN DATA

Design Daily Flow:
 Existing Garage 12 employees @ 15gpd = 180 gallons/day
 Future Employees 3 employees @ 15gpd = 45 gallons/day
 20% reduction for connection to municipal system = -45 gallons/day
 Wastewater design flow = 180 gallons/day

Average daily flow:
 180 gallons/day/(16 hrs/day)(60 min/hr) = 0.19 gpm

Peak flow:
 0.19 gpm x 5.0 = 0.95 gpm

Required storage:
 1 day of design flow = 180 gallons

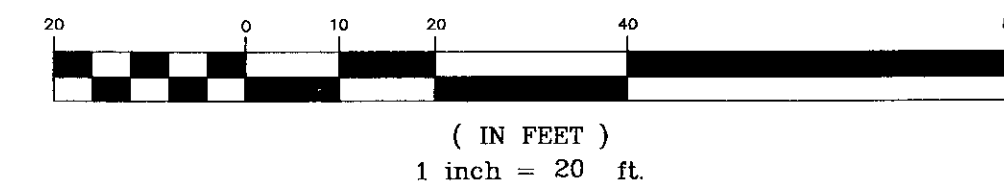
Minimum Pump Requirements:
 3/4" minimum diameters solids
 2.5 fps = 25 gpm (2" force main)
 TDH @ 25 gpm

Hloss 2" at 25 gpm = 1.3ft/100ft = 6'
 = 450 x 0.13'/100' = 13'
 Elevation = 412-399 = 1'
 Minor headlosses = 20'

NOTES:

1. Underground utilities shown hereon are based on utility evidence visible at ground surface and are subject to field verification by excavation. Utilities shown do not purport to constitute or represent all utilities located upon or adjacent to the surveyed premises. All discrepancies shall be reported to the Engineer. The Contractor shall contact Dig Safe (800-225-4977) prior to any construction.
2. The Contractor shall maintain as-built plans (with ties) for all underground utilities. Those plans shall be submitted to the Owner at the completion of the project.
3. The Contractor shall be responsible for conforming to all OSHA (State/Federal) regulations including trenching and confined space requirements.
4. The Contractor shall repair/restore all disturbed areas (on or off the site) as a direct or indirect result of the construction.
5. All grassed areas shall be maintained until full vegetation is established.
6. Maintain all trees outside the construction limits.
7. The Contractor shall be responsible for all work necessary for complete and operable facilities and utilities.
8. The tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet.
9. Any dewatering necessary for the completion of the sitework shall be considered as part of the contract and shall be the Contractor's responsibility.
10. For underground electrical service, the contractor shall trench, place bedding, place conduit, and backfill in accordance with utility company's requirements.
11. If there are any conflicts or inconsistencies with the plans or specifications, the Contractor shall contact the Engineer for verification before work continues on the item in question.
12. In addition to the requirements set in these plans and specifications, the Contractor shall complete the work in accordance with all permit conditions and any local Public Works Standards.
13. All existing utilities not incorporated into the final design shall be removed or abandoned as indicated on the plans or directed by the Engineer.

GRAPHIC SCALE



SITE ENGINEER:

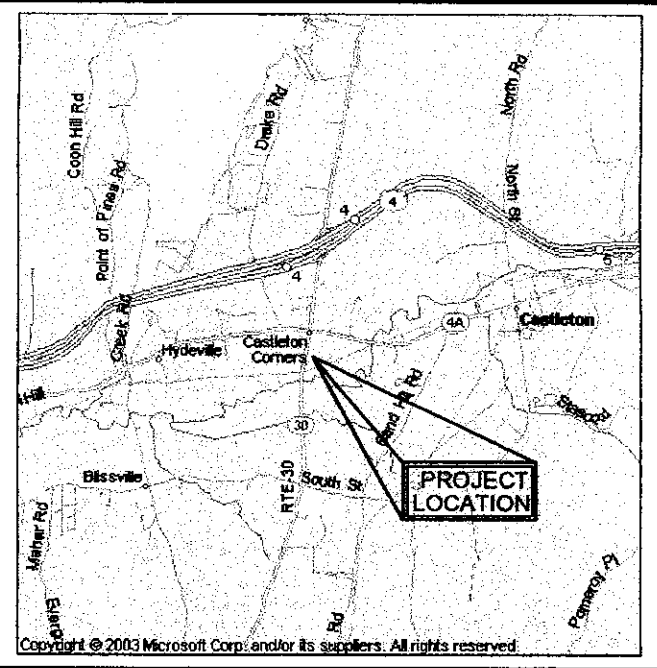
CIVIL ENGINEERING ASSOCIATES, INC.
 P.O. BOX 485 SHELburnE, VT 05482
 802-985-2323 FAX: 802-985-2271 web: www.cae-vt.com
 COPYRIGHT © 2004 - ALL RIGHTS RESERVED

DRAWN: ACL
 CHECKED: BCE
 APPROVED: BCE

OWNER:

STATE OF VERMONT
 VERMONT AGENCY OF TRANSPORTATION
 MONTPELIER, VERMONT

PROJECT:
DISTRICT 3 CASTLETON GARAGE
 MUNICIPAL WASTEWATER CONNECTION
 ROUTE 30 CASTLETON, VERMONT



LOCATION MAP
 1" = 1.25 ± miles

DATE	CHECKED	REVISION

SITE PLAN

DATE: JAN., 2005
 SCALE: 1" = 20'
 PROJ. NO. 04128.10

DRAWING NUMBER: **C1**
 002