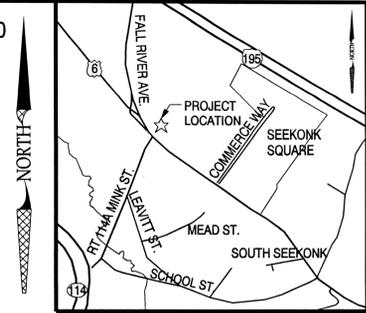
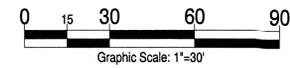


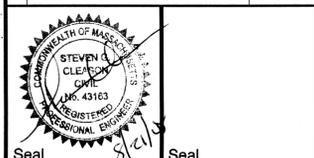
LEGEND:

- EXISTING FEATURES
- W - EXISTING WATER LINE
- S - EXISTING SANITARY SEWER
- UGE - EXISTING BURIED POWER
- D - EXISTING STORM SEWER
- [Symbol] - EXISTING GREASE TRAP
- [Symbol] - EXISTING STORM SEWER INLET
- [Symbol] - EXISTING SEWER CLEANOUT

- PROPOSED FEATURES
- [Symbol] - PROPOSED STORM SEWER
- [Symbol] - PROPOSED SANITARY SEWER
- [Symbol] - PROPOSED WATERMAIN
- [Symbol] - PROPOSED SANITARY SEWER MANHOLE
- [Symbol] - PROPOSED SANITARY OR STORM CLEANOUT
- [Symbol] - PROPOSED FIRE HYDRANT
- [Symbol] - PROPOSED WATER VALVE
- [Symbol] - PROPOSED/RELOCATED LIGHT POLE



Revisions table with columns for Revisions, Date, and Description. Row 1: Revised per City Comments, 8/21/08.



Project Management table with columns for Role and Date. Includes Project Manager, Project Engineer / Architect, and Project Designer.

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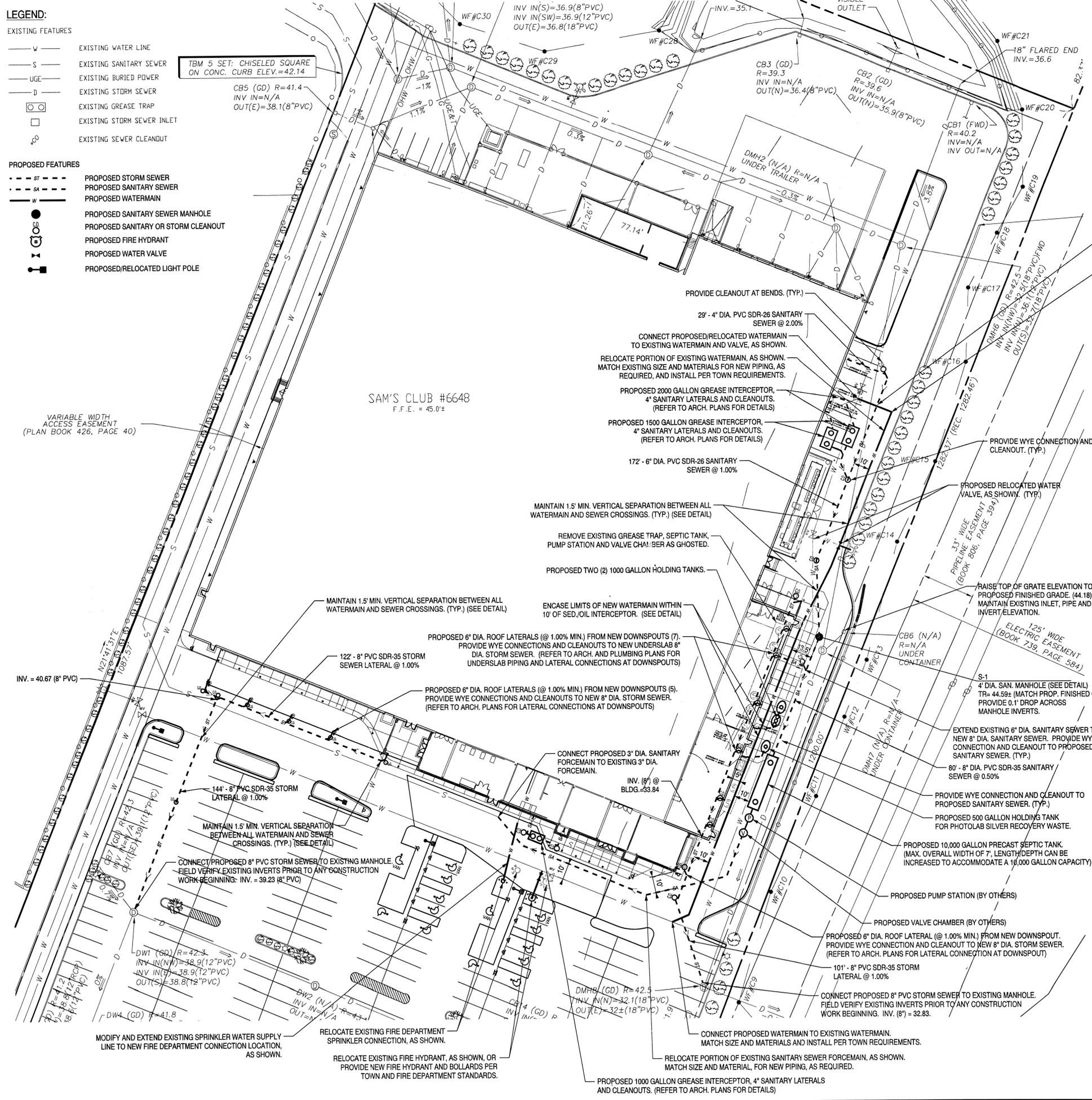
APD Engineering logo and contact information: 615 Fishers Run, Victor, NY 14564. Phone: 585.742.2222. Fax: 585.924.4914. Website: www.apd.com

Sam's Club Expansion

Club #6648
1110 Fall River Ave.
Seekonk, MA 02771
Bristol County

Utility Plan

Project Information table with fields for Drawing Name, Date (12/21/07), Type, Drawn By (JED), Scale (1"=30'), Project No. (07-0205), and Drawing No. (C 2).



MAINTAIN 1.5' MIN. VERTICAL SEPARATION BETWEEN ALL WATERMAIN AND SEWER CROSSINGS. (TYP.) (SEE DETAIL)

CONTRACTOR SHALL VERIFY THAT THE EXISTING WATER LINE (TO BE RELOCATED) CAN BE SHUT OFF PRIOR TO BEGINNING ANY CONSTRUCTION WORK, AND THAT THE SHUT DOWN WILL NOT INTERFERE WITH ANY FIRE OR OPERATIONAL FLOWS. IF INTERRUPTIONS CANNOT BE AVOIDED, CONTRACTOR SHALL COORDINATE WITH ALL NECESSARY AGENCIES, FIRE DEPARTMENTS, STORE MANAGER, STORE OPERATIONS AND ANY OTHER GROUP/AGENCY OR OTHER PROPERTIES/BUSINESS AFFECTED BY THE SHUT DOWN.

UTILITY AND GRADING NOTES:

- 1. ALL EXISTING BUILDING, SITE, GRADING AND UTILITY INFORMATION SHOWN ON THIS PLAN IS REPRESENTED BASED ON USE OF THE LISTED REFERENCES.
2. NO IMPROVEMENTS TO THE EXISTING SITE GAS, ELECTRIC OR TELEPHONE SERVICES ARE ANTICIPATED FOR THIS EXPANSION PROJECT. UTILITY IMPROVEMENTS INCLUDE A WATERMAIN RELOCATION, FIRE HYDRANT AND FIRE DEPARTMENT CONNECTION RELOCATIONS AND SANITARY SEWER/SEPTIC SYSTEM MODIFICATIONS. OTHER IMPROVEMENTS INCLUDE STORM SEWER MODIFICATIONS. ALL PROPOSED STORM SEWERS AND LATERALS SHALL HAVE 2'-0" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE.
3. FOR THE PROPOSED WATERMAIN RELOCATION, THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY AND STORE MANAGER TO MAINTAIN WATER SERVICE AND FIRE PROTECTION.
4. EXISTING UTILITIES AND GRADES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS, INVERTS AND PERTINENT FINISHED GRADE ELEVATIONS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY CONSTRUCTION WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE OWNER OR OWNER'S REPRESENTATIVE'S ATTENTION WITHIN SUFFICIENT TIME TO ALLOW FOR ANY NECESSARY RE-DESIGN BY THE PROJECT ENGINEER OR ARCHITECT.
5. ALL WORK ASSOCIATED WITH THE MODIFICATIONS TO SAID UTILITIES SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL GOVERNING AUTHORITIES' AND/OR AGENCIES' REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY APPROVALS, CONNECTIONS, INSPECTIONS, AND FEES REQUIRED FOR INSTALLATION OR RELOCATION OF UTILITIES.
6. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. IF SAID UTILITIES BECOME DISTURBED OR DAMAGED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE SAID UTILITIES AT THE CONTRACTOR'S EXPENSE AND PER THE LOCAL GOVERNING AUTHORITIES' AND/OR AGENCIES' REQUIREMENTS AND SPECIFICATIONS.
7. CONTRACTOR TO PROVIDE AND MAINTAIN ALL EROSION AND SILT CONTROL DEVICES, AS NECESSARY PER THE LOCAL GOVERNING AUTHORITIES' AND/OR AGENCIES' REQUIREMENTS AND SPECIFICATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTENCE OF ANY IRRIGATION LINES AND SPRINKLER HEADS WITHIN THE LIMITS OF WORK. IF FOUND ANY IRRIGATION LINES OR SPRINKLER HEADS SHALL BE RELOCATED/REPLACED TO MAINTAIN COVERAGE OF LAWN AND LANDSCAPED AREAS.
9. APD ENGINEERING IS ONLY RESPONSIBLE FOR THE PROPOSED SITE IMPROVEMENTS RELATED TO THIS EXPANSION PROJECT. APD ENGINEERING DID NOT PERFORM THE ORIGINAL SITE DESIGN OR SURVEY AND ACCEPTS NO RESPONSIBILITY FOR EXISTING SITE CONDITIONS OR FEATURES THAT WERE DESIGNED AND BUILT PREVIOUS TO THE PREPARATION OF THESE PLANS.
10. CONTRACTOR TO PROVIDE AND MAINTAIN EROSION AND SILT CONTROL DEVICES IN ALL AREAS OF TRENCHING, REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
11. WATER LINES SHALL KEEP A MINIMUM SEPARATION OF 18" VERTICALLY AND 10' HORIZONTALLY, MEASURED FROM OUTSIDE OF PIPES/STRUCTURES, FROM ALL STORM SEWERS AND SANITARY SEWERS. CLEARANCE REQUIREMENTS FROM OTHER UTILITIES SHALL BE VERIFIED WITH THE APPROPRIATE UTILITY AUTHORITY.
12. THE CONTRACTOR IS CAUTIONED THAT LIGHTING CONDUIT AND/OR WIRING MAY EXIST WITHIN THE WORK AREA. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING LIGHTING.
13. CONTRACTOR SHALL TEST ENTIRE LENGTH OF EXISTING AND NEW FORCEMAIN AFTER ALL PROPOSED CONNECTIONS AND RELOCATIONS HAVE BEEN COMPLETED. SYSTEM SHALL BE TESTED TO 1-1/2 TIMES THE PEAK SYSTEM OPERATING PRESSURE. CONTRACTOR SHALL COORDINATE WITH THE PUMP INSTALLER TO ENSURE COMPLETE SYSTEM TESTING.
14. ALL NEW AND RELOCATED WATERMANS SHALL BE TESTED, DISINFECTED AND SAMPLED PER THE SPECIFICATIONS. CONTRACTOR SHALL ALSO ADHERE TO THE LOCAL GOVERNING AUTHORITIES' AND/OR AGENCIES' REQUIREMENTS AND SPECIFICATIONS.

REFERENCES:

- 1. EXISTING SITE, BOUNDARY, UTILITY AND TOPOGRAPHIC SURVEY (SHEETS 1 OF 3, 2 OF 3 AND 3 OF 3) PREPARED BY COLER & COLANTONIO INC., DATED 5/27/05, AND LAST REVISED ON 8/5/05.
2. ARCHITECTURAL BUILDING PLANS PREPARED BY BRR ARCHITECTURE, HAVING DRAWING NAMES: "EXTERIOR BUILDING PLAN (SP1)", "EXTERIOR DETAILS (SP2)", "EXTERIOR BUILDING PLANS (SP2.1)", "DEMOLITION PLAN (D1)", "FLOOR PLAN (A1)", "EXTERIOR ELEVATIONS (A2)", "ENLARGED FLOOR PLANS (A5.1)", "TIRE AND BATTERY CENTER (TBC)", AND "CUSTOMER LOADING CANOPY (LC1)". ALL DRAWINGS DATED 12/12/07.
3. PLUMBING PLANS PREPARED BY HENDERSON ENGINEERS, INC., HAVING DRAWING NAMES: "PLUMBING PLAN (P1)", "GROCERY WASTE AND VENT PLANS (P2)", "SNACK BAR PLUMBING PLANS (P2.4)", AND "TBC AND VESTIBULE PLUMBING PLANS (P2.6)". ALL DRAWINGS DATED 11/5/07.
4. PHOTOGRAPHS TAKEN BY APD ENGINEERING DURING SCOPING TRIP ON 10/23/07.

SAM'S CLUB #6648
F.F.E. = 45.0 ±

VARIABLE WIDTH ACCESS EASEMENT (PLAN BOOK 426, PAGE 40)

REMOVE EXISTING GREASE TRAP, SEPTIC TANK, PUMP STATION AND VALVE CHAMBER AS GHOSTED.

PROPOSED TWO (2) 1000 GALLON HOLDING TANKS.

MAINTAIN 1.5' MIN. VERTICAL SEPARATION BETWEEN ALL WATERMAIN AND SEWER CROSSINGS. (TYP.) (SEE DETAIL)

PROPOSED 6" DIA. ROOF LATERALS (@ 1.00% MIN.) FROM NEW DOWNSPOUTS (7). PROVIDE WYE CONNECTIONS AND CLEANOUTS TO NEW 8" DIA. STORM SEWER. (REFER TO ARCH. PLANS FOR LATERAL CONNECTIONS AT DOWNSPOUTS)

PROPOSED 6" DIA. ROOF LATERALS (@ 1.00% MIN.) FROM NEW DOWNSPOUTS (5). PROVIDE WYE CONNECTIONS AND CLEANOUTS TO NEW 8" DIA. STORM SEWER. (REFER TO ARCH. PLANS FOR LATERAL CONNECTIONS AT DOWNSPOUTS)

MAINTAIN 1.5' MIN. VERTICAL SEPARATION BETWEEN ALL WATERMAIN AND SEWER CROSSINGS. (TYP.) (SEE DETAIL)

CONNECT PROPOSED 8" PVC STORM SEWER TO EXISTING MANHOLE. FIELD VERIFY EXISTING INVERTS PRIOR TO ANY CONSTRUCTION WORK BEGINNING. INV. = 39.23 (8" PVC)

CONNECT PROPOSED 3" DIA. SANITARY FORCEMAIN TO EXISTING 3" DIA. FORCEMAIN.

EXTEND EXISTING 6" DIA. SANITARY SEWER TO NEW 8" DIA. SANITARY SEWER. PROVIDE WYE CONNECTION AND CLEANOUT TO PROPOSED SANITARY SEWER. (TYP.)

PROVIDE WYE CONNECTION AND CLEANOUT TO PROPOSED SANITARY SEWER. (TYP.)

PROPOSED 10,000 GALLON PRECAST SEPTIC TANK (MAX. OVERALL WIDTH OF 7', LENGTH/DEPTH CAN BE INCREASED TO ACCOMMODATE A 10,000 GALLON CAPACITY)

PROPOSED PUMP STATION (BY OTHERS)

PROPOSED VALVE CHAMBER (BY OTHERS)

PROPOSED 6" DIA. ROOF LATERAL (@ 1.00% MIN.) FROM NEW DOWNSPOUT. PROVIDE WYE CONNECTION AND CLEANOUT TO NEW 8" DIA. STORM SEWER. (REFER TO ARCH. PLANS FOR LATERAL CONNECTION AT DOWNSPOUT)

101" - 8" PVC SDR-35 STORM LATERAL @ 1.00%

CONNECT PROPOSED 8" PVC STORM SEWER TO EXISTING MANHOLE. FIELD VERIFY EXISTING INVERTS PRIOR TO ANY CONSTRUCTION WORK BEGINNING. INV. (8") = 32.83.

RELOCATE PORTION OF EXISTING SANITARY SEWER FORCEMAIN, AS SHOWN. MATCH SIZE AND MATERIAL, FOR NEW PIPING, AS REQUIRED.

PROPOSED 1000 GALLON GREASE INTERCEPTOR, 4" SANITARY LATERALS AND CLEANOUTS. (REFER TO ARCH. PLANS FOR DETAILS)

RELOCATE EXISTING FIRE HYDRANT, AS SHOWN, OR PROVIDE NEW FIRE HYDRANT AND BOLLARDS PER TOWN AND FIRE DEPARTMENT STANDARDS.

MODIFY AND EXTEND EXISTING SPRINKLER WATER SUPPLY LINE TO NEW FIRE DEPARTMENT CONNECTION LOCATION, AS SHOWN.

RELOCATE EXISTING FIRE DEPARTMENT SPRINKLER CONNECTION, AS SHOWN.