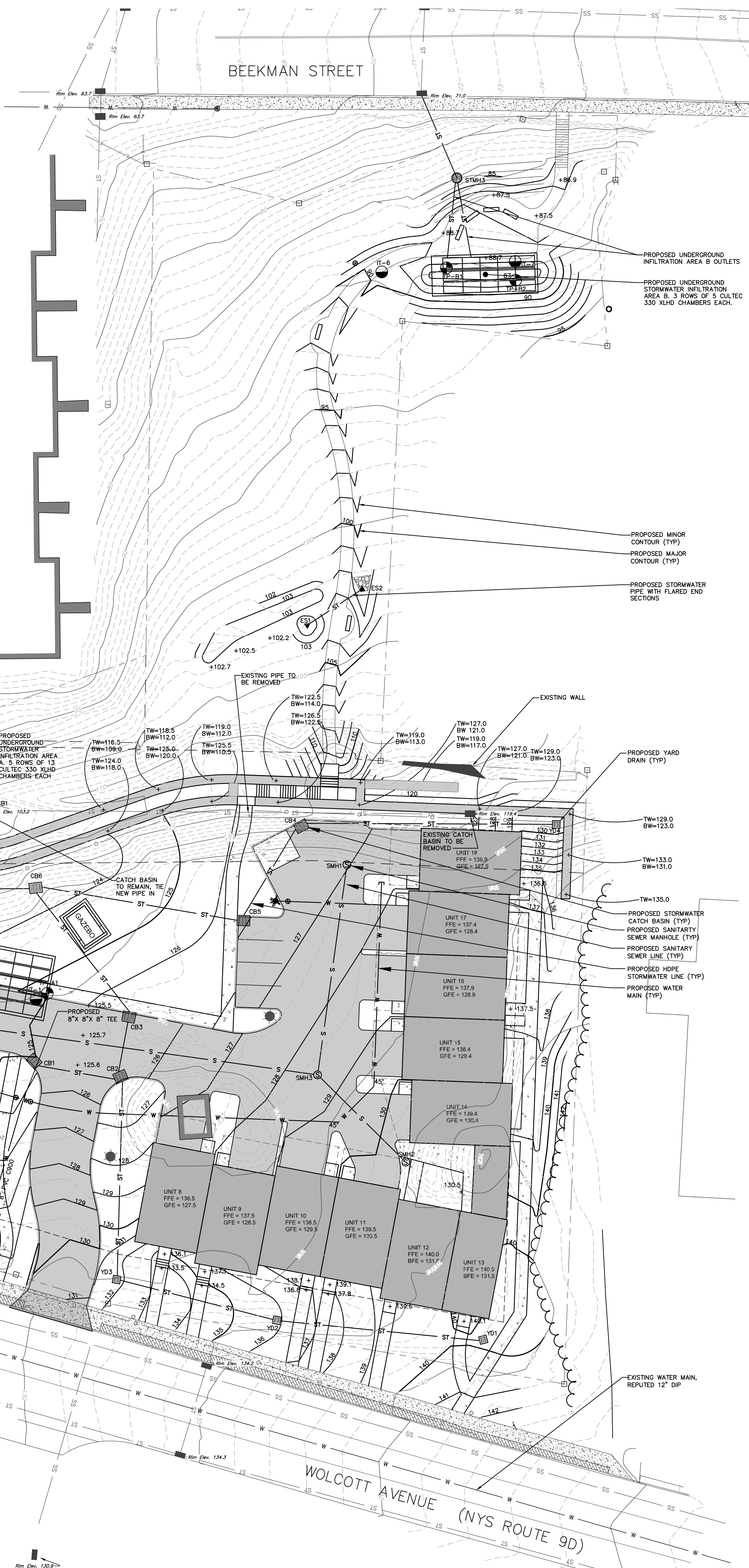


LEGEND

| | |
|-----|---|
| --- | EXISTING PROPERTY LINE |
| --- | EXISTING ADJONER LINE |
| ○ | EXISTING TREE |
| --- | PROPOSED MAJOR CONTOUR |
| --- | EXISTING MINOR CONTOUR |
| --- | PROPOSED MAJOR CONTOUR |
| --- | PROPOSED MINOR CONTOUR |
| --- | PROPOSED SALT FENCE |
| X | EXISTING FENCE |
| WS | EXISTING WATER MAIN |
| WS | EXISTING WATER SERVICE LINE |
| WS | PROPOSED WATER SERVICE LINE |
| ○ | SEWER MANHOLE |
| ○ | UTILITY POLE |
| ○ | HYDRANT |
| ○ | WATER VALVE |
| ○ | ROUND DROP INLET |
| ○ | ELECTRIC METER |
| ○ | UTILITY POLE WITH LIGHT |
| --- | EXISTING OVERHEAD WIRES |
| ○ | DROP INLET |
| ○ | GAS METER |
| ○ | PROPOSED CATCH BASIN WITH REEL PROTECTION |
| --- | PROPOSED RETAINING WALL |
| --- | EXISTING CATCH BASIN |
| --- | PROPOSED SALT FENCE |
| --- | IMPERVIOUS SURFACE |
| --- | PROPOSED RIP RAP |
| ST | PROPOSED STORMWATER LINE |
| S | PROPOSED SEWER LINE |
| W | PROPOSED WATER LINE |

GENERAL CONSTRUCTION SCHEDULE:
 THE FOLLOWING SCHEDULE IS SUBJECT TO CHANGE BASED ON ENCOUNTERED FIELD CONDITIONS AND/OR THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
 1. PREPARE THE SITE FOR CONSTRUCTION BY INSTALLING THE PRELIMINARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
 2. CLEAR AND GRUB NORTHERN PORTION OF THE SITE FROM THE ACCESS ROAD TO THE RETAINING WALL TO THE WEST AND UP TO THE LIMITS OF CONSTRUCTION ON THE NORTH.
 3. CONSTRUCT PORTION OF RETAINING WALL FROM THE POURED CONCRETE SECTION (STAIRS) AND TO THE NORTH. FILL BEHIND WALL (EAST SIDE) AS WALL IS BUILT.
 4. MASS EARTHWORK AND UTILITY INSTALLATION ON THE NORTHERN PORTION OF THE SITE (FROM THE ACCESS ROAD NORTH, INCLUDING THE ROAD, PARKING AREAS, FOUNDATION AREAS FOR UNITS 8-18), UTILITIES TO INCLUDE METER PIT, THAT PORTION OF WATER MAIN TO THE NORTH (SUB AND CAP SECTION) TO THE SOUTH OF THE TEE). INDIVIDUAL WATER SERVICES UNITS 8-18, SANITARY SEWER TO THE CONNECTION POINT ON THE SOUTH SIDE OF THE SITE, SANITARY SEWER MAIN AND MANHOLES, SANITARY SEWER SERVICE CONNECTIONS UNITS 8-18; STORMWATER CATCH BASINS AND BRING ON NORTHERN PORTION OF SITE AND STORM MANHOLES 1 & 2 TO THE EXISTING CATCH BASIN ON THE SOUTH SIDE OF THE SITE (STORM SYSTEM ON NORTH TO DISCHARGE TO TEMPORARY SEDIMENT TRAPS ON THE SOUTH PORTION OF THE SITE, WITH TEMPORARY OVERFLOW TO THE STORM MANHOLE 2).
 5. CONSTRUCT BUILDING FOUNDATIONS FOR UNITS 8-18, AND BRING PARKING/ROADWAY TO BINDER COURSE.
 6. CONSTRUCT UNITS 8-18.
 7. CLEAR AND GRUB SOUTHERN PORTION OF THE SITE FROM THE ACCESS ROAD TO THE RETAINING WALL TO THE WEST AND UP TO THE LIMITS OF CONSTRUCTION ON THE SOUTH.
 8. INSTALL STAIRS FROM FERRY STREET TO WOLCOTT AVENUE.
 9. CONSTRUCT RETAINING WALL FROM THE SOUTH UP TO THE POURED WALL SECTION. FILL BEHIND WALL (EAST SIDE) AS WALL IS BUILT.
 10. MASS EARTHWORK AND UTILITY INSTALLATION ON THE SOUTHERN PORTION OF THE SITE (FROM THE ACCESS ROAD SOUTH, INCLUDING THE ROAD, PARKING AREAS, FOUNDATION AREAS FOR UNITS 1-7), UTILITIES TO INCLUDE THAT PORTION OF WATER MAIN TO THE SOUTH, INDIVIDUAL WATER SERVICES UNITS 1-7, SANITARY SEWER SERVICE CONNECTIONS UNITS 1-7, STORMWATER CATCH BASINS AND PIPING ON SOUTHERN PORTION OF SITE, UNDERGROUND INFILTRATION SYSTEM.
 11. CONSTRUCT BUILDING FOUNDATIONS FOR UNITS 1-7, AND BRING PARKING/ROADWAY TO BINDER COURSE.
 12. FINALIZE SITE LANDSCAPING AND INSTALL TOP ASPHALT COURSE.
 13. CONSTRUCT PATH TO THE WEST AND THE POCKET PARK, INCLUDING STORMWATER MANAGEMENT PRACTICE ON THE WEST SIDE OF THE SITE.



INSPECTION SCHEDULE & LONG TERM MAINTENANCE OF STORMWATER STRUCTURES

CATCH BASINS AND PIPING:
 ALL CATCH BASINS SHALL BE INSPECTED AFTER EACH STORM EVENT FOR SEDIMENT ACCUMULATION AND DEBRIS, AND REMOVE AS NECESSARY. WHEN SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN REACHES 1/2 OF THE PUMP DEPTH, IT SHALL BE REMOVED. ASSOCIATED PIPING SHALL BE INSPECTED ANNUALLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED.
UNDERGROUND INFILTRATION:
 THE UNDERGROUND INFILTRATION AREA SHALL BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION. THE MANUFACTURER'S RECOMMENDATIONS THAT THE CDS UNITS BE INSPECTED BI-ANNUALLY (ONCE IN THE SPRING AND ONCE IN THE FALL). THE STRUCTURE SHALL BE VISUALLY INSPECTED FOR BLOCKAGES OR OBSTRUCTIONS IN THE INLET OR SEPARATION SCREEN. THE INSPECTION SHOULD ALSO QUANTIFY ACCUMULATION OF HYDROCARBONS, SEDIMENT AND TRASH WITHIN THE SYSTEM. INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED PERSONNEL WITH ADEQUATE TRAINING IN THESE TYPES OF UNITS. THE UNITS SHALL BE CLEANED BY VACUUM TRUCK ONCE A YEAR (EXCEPT FOR THE FIRST YEAR WHERE MORE FREQUENT CLEANINGS MAY BE REQUIRED).

EXISTING UNDERGROUND UTILITY NOTES:

1. CONTRACTOR SHALL DIG TEST PITS TO VERIFY LOCATION, SIZE AND PIPE MATERIAL OF EXISTING UNDERGROUND UTILITIES. IF ANY EXISTING UTILITIES ARE NOT IN THE LOCATION WHERE THEY ARE SHOWN ON THE PLAN, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
GENERAL CONSTRUCTION NOTES:
 1. ALL OTHER UTILITIES (TELEPHONE, ELECTRIC, GAS, CABLE, ETC.) SHALL BE INCORPORATED PRIOR TO CONSTRUCTION. ALL SUCH UTILITY DESIGNS SHALL BE DEVELOPED IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANIES.
 2. THE CONTRACTOR SHALL PERFORM A UTILITIES CALL-OUT PRIOR TO CONSTRUCTION TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS BY CONTACTING UPD @ 1-800-962-7962.
 3. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL CATCH BASINS & STORM SEWER LINES, SANITARY MANHOLES & SEWER LINES, WATERLINES AND OTHER UNDERGROUND UTILITY LINES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT ASSUME THAT ALL LOCATIONS AS SHOWN ON THE PLAN ARE CORRECT. INVESTIGATIVE TEST PITS MAY BE REQUIRED TO VERIFY LOCATIONS.
 4. PIPE CONNECTIONS TO ALL CATCH BASINS SHALL BE MADE WATER-TIGHT, WITH PARTICULAR ATTENTION BEING PAID TO CONNECTIONS LOCATED WITHIN 10 FEET OF SEWER MAINS (AND SERVICE LATERALS).

POST CONSTRUCTION NOTES:

1. UPON COMPLETION OF CONSTRUCTION OF THE STORMWATER FACILITIES, AS-BUILT DRAWINGS OF ALL STORMWATER PRACTICES AND AN OPERATION AND MAINTENANCE PLAN MANUAL SHALL BE PROVIDED TO THE CITY OF BEACON.

STORM SEWER STRUCTURE TABLE

| STRUCTURE | STRUCTURE DETAILS |
|-----------|---|
| CB1 | RIM = 125.10 SUMP = 121.10 CB1-CB2 INV OUT = 122.10 |
| CB3 | RIM = 125.70 SUMP = 120.60 CB2-CB3 INV IN = 121.30 CB3-CB5 INV OUT = 121.20 |
| CB4 | RIM = 126.00 SUMP = 121.80 YD4-CB4 INV IN = 123.10 CB4-CB5 INV OUT = 123.00 |
| CB5 | RIM = 125.90 SUMP = 120.10 CB4-CB5 INV IN = 122.50 CB5-CB6 INV OUT = 122.40 |
| CB6 | RIM = 123.50 SUMP = 118.00 CB5-CB6 INV IN = 120.60 CB3-CB5 INV IN = 120.60 CB6-CB7 INV OUT = 120.50 |
| CB7 | RIM = 121.08 SUMP = 117.00 CB6-CB7 INV IN = 118.10 CB7-WQ1 INV OUT = 118.00 |
| CB8 | RIM = 118.40 SUMP = 112.50 YD6-CB8 INV IN = 113.60 CB8-WQ1 INV OUT = 113.50 |

STORM SEWER STRUCTURE TABLE

| STRUCTURE | STRUCTURE DETAILS |
|-----------|---|
| EX CB1 | RIM = 103.16 SUMP = 98.92 EX CB1-YD7 INV OUT = 98.90 |
| EX CB3 | RIM = 81.86 SUMP = 76.94 STMH3-EX CB3 INV IN = 67.80 EX CB3 OUT INV OUT = 67.09 |
| STMH1 | RIM = 121.00 SUMP = 110.60 INF A OUT-STMH1 INV IN = 111.90 STMH1-STMH2 INV IN = 111.60 |
| STMH2 | RIM = 100.07 SUMP = 88.60 YD8-STMH2 INV IN = 89.60 STMH1-STMH2 INV IN = 89.70 STMH2-EX CB2 INV OUT = 89.60 |
| STMH3 | RIM = 84.89 SUMP = 77.50 INF B(1)-STMH3 INV IN = 79.50 INF B(2)-STMH3 INV IN = 80.30 STMH3-EX CB3 INV OUT = 73.30 |
| WQ1 | RIM = 120.50 SUMP = 111.80 CB7-WQ1 INV IN = 117.60 CB8-WQ1 INV IN = 112.90 WQ1-CULTEC INV OUT = 112.80 |
| YD1 | RIM = 139.00 SUMP = 133.80 YD1-YD2 INV OUT = 136.00 |

STORM SEWER STRUCTURE TABLE

| STRUCTURE | STRUCTURE DETAILS |
|-----------|--|
| YD2 | RIM = 135.90 SUMP = 131.90 YD1-YD2 INV IN = 133.00 YD2-YD3 INV OUT = 132.90 |
| YD3 | RIM = 131.76 SUMP = 127.70 YD2-YD3 INV IN = 128.80 YD3-CB2 INV OUT = 128.70 |
| YD4 | RIM = 129.00 SUMP = 125.10 YD4-CB4 INV OUT = 126.10 |
| YD5 | RIM = 117.20 SUMP = 113.30 YD5-YD6 INV OUT = 114.30 |
| YD7 | RIM = 94.50 SUMP = 90.50 EX CB1-YD7 INV IN = 91.60 YD7-YD8 INV OUT = 91.50 |
| YD8 | RIM = 92.20 SUMP = 85.34 YD7-YD8 INV IN = 89.80 YD8-STMH2 INV OUT = 89.80 |

STORM SEWER PIPE TABLE

| PIPE NAME | LENGTH | SIZE AND MATERIAL | SLOPE |
|-----------|--------|-------------------|-------|
| CB1-CB2 | 35 LF | 15" CORR HDPE | 1.15% |
| CB2-CB3 | 24 LF | 15" CORR HDPE | 1.26% |
| CB3-CB5 | 63 LF | 15" CORR HDPE | 0.95% |
| CB4-CB5 | 44 LF | 15" CORR HDPE | 1.14% |
| CB5-CB6 | 84 LF | 15" CORR HDPE | 2.15% |
| CB6-CB7 | 93 LF | 15" CORR HDPE | 2.59% |
| CB7-WQ1 | 8 LF | 15" CORR HDPE | 5.07% |
| CB8-WQ1 | 56 LF | 15" CORR HDPE | 1.07% |
| ES1-ES2 | 25 LF | 15" CORR HDPE | 1.22% |

STORM SEWER PIPE TABLE

| PIPE NAME | LENGTH | SIZE AND MATERIAL | SLOPE |
|-----------------|--------|-------------------|--------|
| EX CB1-YD7 | 128 LF | 15" CORR HDPE | 5.70% |
| INF A OUT-STMH1 | 8 LF | 12" CORR HDPE | 1.32% |
| INF B(1)-STMH3 | 32 LF | 4" CORR HDPE | 4.69% |
| INF B(2)-STMH3 | 32 LF | 6" CORR HDPE | 4.69% |
| STMH1-STMH2 | 124 LF | 15" CORR HDPE | 17.72% |
| STMH2-EX CB2 | 87 LF | 15" CORR HDPE | 1.04% |
| STMH3-EX CB3 | 37 LF | 15" CORR HDPE | 14.91% |
| WQ1-CULTEC | 11 LF | 15" CORR HDPE | 16.52% |
| YD1-YD2 | 82 LF | 15" CORR HDPE | 3.64% |

STORM SEWER PIPE TABLE

| PIPE NAME | LENGTH | SIZE AND MATERIAL | SLOPE |
|-----------|--------|-------------------|-------|
| YD2-YD3 | 66 LF | 15" CORR HDPE | 6.24% |
| YD3-CB2 | 81 LF | 15" CORR HDPE | 8.68% |
| YD4-CB4 | 101 LF | 15" CORR HDPE | 2.96% |
| YD5-YD6 | 29 LF | 15" CORR HDPE | 1.04% |
| YD6-CB8 | 24 LF | 15" CORR HDPE | 1.24% |
| YD7-YD8 | 64 LF | 15" CORR HDPE | 2.64% |
| YD8-STMH2 | 38 LF | 15" CORR HDPE | 0.53% |

SANITARY SEWER STRUCTURE TABLE

| STRUCTURE | STRUCTURE DETAILS |
|-----------|--|
| EX SMH | RIM = 89.97 SMH5 TO EX SMH INV IN = 83.75 |
| SMH1 | RIM = 126.90 SMH1-SMH2 INV OUT = 120.80 |
| SMH2 | RIM = 130.17 SMH2-SMH3 INV IN = 124.00 |
| SMH3 | RIM = 128.54 SMH1-SMH2 INV IN = 120.30 SMH2-SMH3 INV IN = 120.30 SMH3-SMH4 INV OUT = 120.20 |
| SMH4 | RIM = 117.59 SMH3-SMH4 INV IN = 112.80 SMH4-SMH5 INV OUT = 95.27 |
| SMH5 | RIM = 92.53 SMH4-SMH5 INV IN = 85.00 SMH5 TO EX SMH INV OUT = 84.90 |

SANITARY SEWER PIPE TABLE

| PIPE NAME | LENGTH | SIZE AND MATERIAL | SLOPE |
|----------------|--------|-------------------|--------|
| SMH1-SMH2 | 84 LF | 8" SDR-35 PVC | 0.59% |
| SMH2-SMH3 | 49 LF | 8" SDR-35 PVC | 7.51% |
| SMH3-SMH4 | 287 LF | 8" SDR-35 PVC | 2.58% |
| SMH4-SMH5 | 51 LF | 8" SDR-26 PVC | 20.00% |
| SMH5 TO EX SMH | 81 LF | 8" SDR-35 PVC | 1.42% |

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE _____ DAY OF _____, 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____, 20____, BY _____ CHAIRMAN
 _____ SECRETARY
 IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY RESPECTIVELY MAY SIGN IN THIS PLACE.



REVISIONS:

| NO. | DATE | DESCRIPTION | BY |
|-----|------------|-----------------------------|-----|
| 1 | 8/29/2017 | PER PLANNING BOARD COMMENTS | DKG |
| 2 | 9/28/2017 | PER PLANNING BOARD COMMENTS | DKG |
| 3 | 10/31/2017 | REVISED RETAINING WALL | DKG |

Grading And Utility Plan
 Scale: 1" = 20'