LEGEND: EXISITNG ROOF LEADER LOCATION SEWER MANHOLE UNKNOWN MANHOLE GUY WIRE ANCHOR UTILITY POLE ELECTRIC BOX HYDRANT WATER VALVE ROUND DROP INLET 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). ELECTRIC METER UTILITY POLE WITH LIGHT COMMUNICATION BOX OVERHEAD WIRES FENCE ____X ____ DROP INLET GAS METER UNKNOWN VALVE EXISTING WATER EDGE EXISTING PROPERTY LINE ---- 100-YEAR FLOOD LINE ——— 100-YEAR FLOODWAY LINE PROPOSED CLEANOUT PROPOSED HYDRANT PROPOSED WATER VALVE PROPOSED SANITARY MANHOLE PROPOSED RETAINING WALL ----- PROPOSED UNDERDRAIN PROPOSED MINOR CONTOUR PROPOSED MAJOR CONTOUR PROPOSED SPOT ELEVATION EXISTING CATCH BASIN EXISTING UTILITY POLE PROPOSED CLEANOUT PROPOSED WATER SUPPLY LINE IMPERVIOUS SURFACE PROPOSED RIP RAP UTILITY CROSSING LOCATION PROPOSED ROOF LEADER PROPOSED WATER SERVICE LINE PROPOSED WATER SHUT-OFF VALVE

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 SUMP REACHES 1/2 OF THE SUMP DEPTH, IT SHALL BE REMOVED. ASSOCIATED PIPING SHALL BE INSPECTED ANNUALLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED.

HYDRODYNAMIC DEVICES: THE VORTEX UNITS SHALL BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION. THE MANUFACTURER RECOMMENDS 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

INFILTRATION BASIN:

THE INFILTRATION BASIN SHALL BE INSPECTED MONTHLY FOR SEDIMENT AND DEBRIS ACCUMULATION. INFLOW PIPES, OUTLET STRUCTURES AND SPILLWAYS SHOULD ALSO BE INSPECTED FOR SEDIMENT AND DEBRIS MONTHLY. ANY ACCUMULATED SEDIMENT OR DEBRIS SHOULD BE REMOVED AS NECESSARY. PLANTINGS SHALL BE INSPECTED MONTHLY FOR HEIGHT, FERTILIZER, QUANTITY AND UNAUTHORIZED INVASIVE OR INAPPROPRIATE SPECIES. AFTER STORM EVENTS, THE INFILTRATION BASIN DEWATERING DURATION SHOULD ALSO BE MONITORED. THE BASIN FLOOR SHALL BE MOWED AS REQUIRED; HOWEVER, THE GRASS HEIGHT SHALL NOT EXCEED 18". SEDIMENT SHALL BE CLEANED OUT OF THE INFILTRATION BASIN ANNUALLY.

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 UFPO @ 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 WATERTIGHT, 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.

WATER AND SEWER MAIN RELOCATION NOTES:

CHECKED BY: DGK

REVISIONS:

DESCRIPTION

BY NO. DATE

DRAWN BY: MAB

REVISIONS:

- 1. THE SECTIONS OF SEWER MAIN TO REMAIN IN-PLACE ON SITE SHALL BE TV INSPECTED AND CLEANED TO VERIFY THE CONDITION OF THE PIPE. THIS WORK SHALL BE COORDINATED WITH THE CITY ENGINEER AND SEWER DEPARTMENT. THE PIPES TO REMAIN IN-PLACE SHALL THEN BE SLIP-LINED BETWEEN EXISTING MANHOLE 11 TO PROPOSED SEWER MANHOLE 12, AND BETWEEN PROPOSED SEWER MANHOLE 14 AND EXISTING SEWER MANHOLE 15. 2. UPON COMPLETION OF CONSTRUCTION OF THE WATER AND SEWER FACILITIES, AS-BUILT DRAWINGS OF FINAL WATER AND SEWER MAIN LOCATIONS SHALL BE PROVIDED TO THE CITY OF
- 3. THE COMPLETED WATER MAIN EXTENSION AND SEWER MAIN RE-LOCATION SHALL BE CERTIFIED BY THE LICENSED PROFESSIONAL OBSERVING CONSTRUCTION TO THE CITY OF BEACON. 4. THE WATER AND SEWER MAINS SHALL BE DEDICATED TO THE CITY OF BEACON UPON ACCEPTANCE OF THE CERTIFICATION.

SNOW REMOVAL AND STORAGE NOTES:

THE SITE OWNER WILL UTILIZE A LOADER TO MOVE SNOW TO THE AREAS DESIGNATED FOR SNOW STORAGE.

SNOW SHALL BE REMOVED WITHIN 8 HOURS AFTER A SNOW EVENT.

SITE CLEARING NOTES:

1. SITE CLEARING SHALL OCCUR BETWEEN OCTOBER 1ST THROUGH MARCH 31ST IN ACCORDANCE WITH NYSDEC REGULATIONS.

ROCK REMOVAL NOTES:

1. ROCK REMOVAL (IF NECESSARY) SHALL BE ACCOMPLISHED BY MECHANICAL METHODS AS MUCH AS POSSIBLE AND SHALL ONLY BE PERMITTED BETWEEN 8:00AM AND 5:00 PM ON ANY DAY WHICH ROCK REMOVAL IS PERMITTED.

ACCEPTABLE ROCK REMOVAL METHODS ARE RIPPING, HYDRAULIC HAMMER OR DRILLING HOLES WITH USE OF EXPANSIVE TOOLS AND/OR WEDGES. 3. IF MECHANICAL METHODS BECOME INEFFECTIVE DUE TO HARD ROCK, AND IT IS DETERMINED THAT BLASTING IS REQUIRED, IT SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF BEACON BUILDING DEPARTMENT. NO BLASTING SHALL COMMENCE UNTIL A BLASTING PROTOCOL IS SUBMITTED TO THE CITY OF BEACON BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. 4. BLASTING PROTOCOL SHALL BE IN ACCORDANCE WITH §111 OF THE CITY OF BEACON CODE.

PRESSURE REDUCING VALVE AND BACKFLOW PREVENTION NOTES:

HYDRANT FLOW TESTS IN THE VICINITY OF THE PROJECT REVEALED STATIC PRESSURES RANGING FROM 88 PSI TO 100 PSI. THEREFORE PRESSURE REDUCING VALVES WILL BE REQUIRED AT ALL PROPOSED DOMESTIC WATER CONNECTIONS TO BUILDINGS.

PRESSURE REDUCING VALVES (PRV) SHALL BE FURNISHED BY MUELLER OR WATTS AND COORDINATED WITH THE MECHANICAL ENGINEERING CONSULTANT AS TO TYPE AND SIZE. SPECIFICATIONS FOR THE PROPOSED PRV SHALL BE PROVIDED TO THE CITY OF BEACON BUILDING DEPARTMENT PRIOR TO INSTALLATION. DOUBLE CHECK VALVES SHALL BE PROVIDED ON ALL SERVICE CONNECTIONS TO THE ON-SITE BUILDINGS. DOUBLE CHECK VALVES SHALL BE WATTS SERIES 909 OR APPROVED EQUAL ON DOMESTIC CONNECTIONS AND COORDINATED WITH THE MECHANICAL ENGINEERING CONSULTANT AS TO

6. SPECIFICATIONS FOR THE PROPOSED DOUBLE CHECK VALVES SHALL BE PROVIDED TO THE CITY OF BEACON PRIOR TO INSTALLATION.

RETAINING WALL NOTES: 1. ALL RETAINING WALLS SHOWN ON THIS PLAN SHALL BE DESIGNED BY A NEW YORK STATE LICENSED ENGINEER AND PLANS SHALL BE SUBMITTED TO THE BEACON BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.

LOT LINE RE-ALIGNMENT NOTES:

PARCEL 6054-37-066670 (7-15 CREEK DRIVE) IS CONVEYING 14,700.76 SQFT, (0.337 AC.) TO THIS PARCEL 6054-37-037625 (23-28 CREEK DRIVE). THE RESULTANT AREA FOR PARCEL 6054-37-066670 (7-15 CREEK DRIVE) AFTER THE LOT LINE RE-ALIGNMENT IS $\pm 69.918.03$ SQFT, OR ± 1.605 AC.

TYPE AND SIZE.

3. THE RESULTANT AREA FOR PARCEL 6054-37-037625 (23-28 CREEK DRIVE) AFTER THE LOT LINE RE-ALIGNMENT IS ±136,953.88 SQFT, OR ±3.144 AC.

4. THE WATER SERVICE LINE AND METER FOR EACH UNIT SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF BEACON WATER DEPARTMENT REQUIREMENTS.

. THE CONTRACTOR SHALL PERFORM A UTILITIES CALL-OUT PRIOR TO CONSTRUCTION TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS BY CONTACTING UFPO @ 1-800-962-7962.

SPECIFIC ATTENTION SHALL BE PAID TO THE LOCATIONS OF THE GAS, WATER AND SEWER MAINS WITH RESPECT TO THE PROPOSED LOCATIONS FOR THE SERVICE LINES. 2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL DRAINAGE, SANITARY SEWER, WATER AND GAS LINES AND STRUCTURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT ASSUME THAT ALL LOCATIONS AS SHOWN ON THE PLAN ARE CORRECT 3. THE PROPOSED LOT SHALL BE SERVED BY THE CITY OF BEACON MUNICIPAL WATER AND SEWER SERVICES. AS SUCH, THE CONTRACTOR SHALL CONTACT THE CITY OF BEACON WATER AND SEWER DEPARTMENTS TO SCHEDULE A PRE-CONSTRUCTION MEETING TO ENSURE THAT THE ARRANGEMENTS FOR WATER SUPPLY AND SEWAGE DISPOSAL ARE COMMENCED IN ACCORDANCE WITH THE APPROVED PLANS AND AMENDMENTS THERETO AND GENERALLY ACCEPTED STANDARDS.

5. THE WATER MAIN EXTENSION SHALL BE 8" CLASS 52 DIP. 6. THE SEWER SERVICE LATERAL SHALL BE 6"Ø SDR-35 PVC PIPE WITH PITCH AS SHOWN ON THE PLAN. 7. STREET CLOSURE FOR WATER, SEWER AND GAS SERVICE CONNECTIONS AND DRIVEWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BEACON REQUIREMENTS. A PLAN SHALL BE IN PLACE FOR MAINTENANCE AND PROTECTION OF TRAFFIC. 8. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. MAIN STREET AND NORTH ELM STREET SHALL BE KEPT CLEAN AND SWEPT DURING CONSTRUCTION. 9. SUMP PUMPS TO BE PROVIDED FOR FOOTING DRAINS, AS REQUIRED. THE TYPES OF PUMPS AND METHODS USED TO ENSURE PROPER DRAINAGE SHALL BE ACCEPTABLE TO THE CITY OF BEACON BUILDING DEPARTMENT.

10. THE BUILDING DEPARTMENT SHALL HAVE THE RIGHT TO INSPECT THE EXISTING BUILDING TO CONFIRM THAT THERE ARE NOT EXISTING STORMWATER CONNECTIONS TO THE CITY'S SANITARY SEWER SYSTEM PRIOR TO THE MAP BEING SIGNED. 11. THE EXISTING WATER SERVICE LINE SHALL BE CUT, CAPPED AND ABANDONED IN-PLACE.

12. THE EXISTING SEWER SERVICE LATERAL SHALL BE REMOVED AND PLUGGED TO PREVENT ANY GROUNDWATER INFLOW INTO THE CITY SEWER SYSTEM. 13. THE EXISTING 24" SEWER MAIN SHALL BE TV INSPECTED AND THE RESULTS PROVIDED TO THE BEACON BUILDING DEPARTMENT.

14. THE EXISTING SECTIONS OF SEWER MAIN TO REMAIN IN USE ON THE PARCEL SHALL BE SLIP-LINED.

STORM SE	WER STRUCTURE TABLE	
STRUCTURE	STRUCTURE DETAILS	
CB1	RIM = 96.31 SUMP = 92.20 PIPE 1 INV OUT = 93.20	
CB2	RIM = 96.10 SUMP = 91.90 PIPE 1 INV IN = 93.00 PIPE 2 INV OUT = 92.90	
CB3	RIM = 91.36 SUMP = 86.70 PIPE 2 INV IN = 88.40 PIPE 6 INV IN = 87.80 PIPE 3 INV OUT = 87.70	
CB4	RIM = 86.91 SUMP = 82.90 PIPE 3 INV IN = 83.90 PIPE 4 INV OUT = 83.90	
CB6	RIM = 91.14 SUMP = 87.10 PIPE 6 INV OUT = 88.10	
WQI5	RIM = 86.96 SUMP = 82.20 PIPE 4 INV IN = 83.30 PIPE 5 INV OUT = 83.20	

FLARED END SECTION TABLE

STRUCTURE STRUCTURE DETAILS

FES 11 PIPE 9 INV IN = 88.10

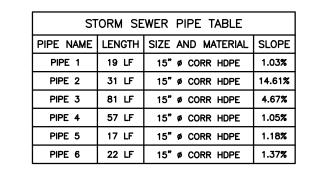
FES 18 PIPE 15 INV IN = 80.00

FES 19 PIPE 16 INV IN = 79.50

STORM SEV	VER STRUCTURE TABLE
STRUCTURE	STRUCTURE DETAILS
CB7	RIM = 97.01 SUMP = 92.60 PIPE 7 INV OUT = 93.60
CB8	RIM = 94.74 SUMP = 88.90 PIPE 7 INV IN = 91.00 PIPE 8 INV OUT = 89.90
CB9	RIM = 91.56 SUMP = 87.60 PIPE 8 INV IN = 88.70 PIPE 9 INV OUT = 88.60

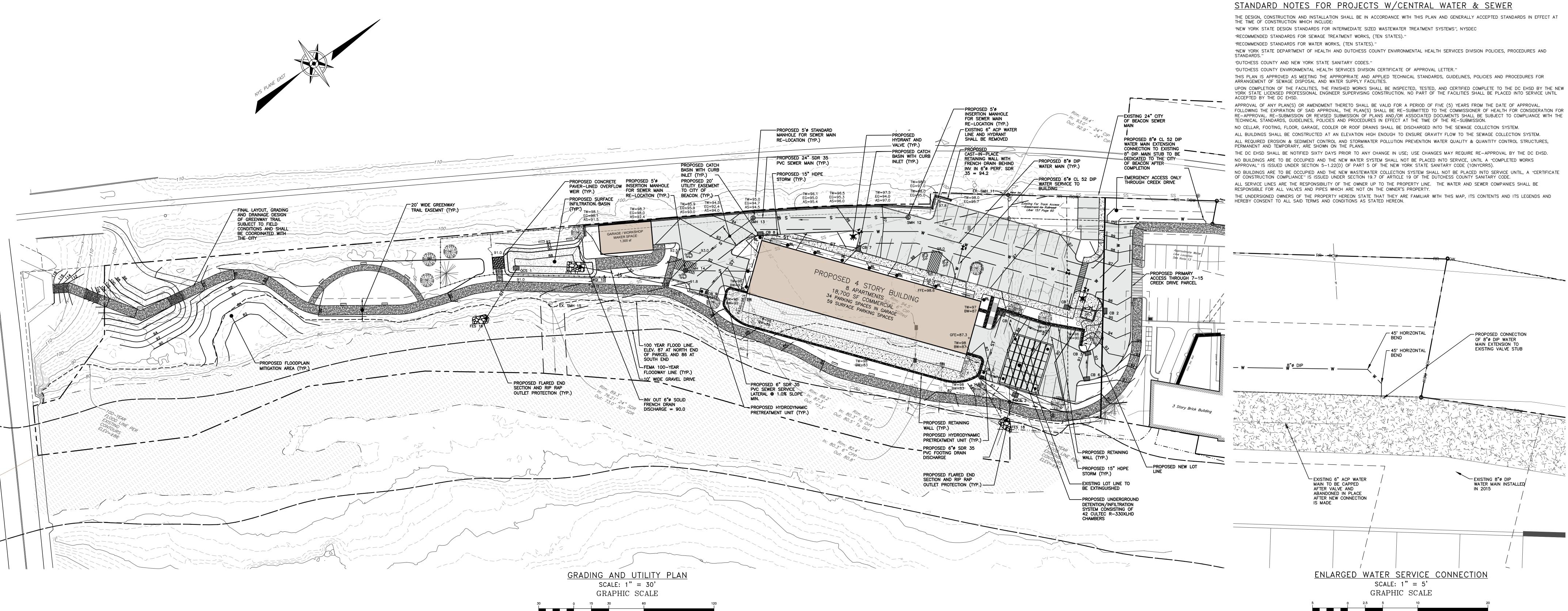
SANITARY S	EWER STRUCTURE TABLE
STRUCTURE	STRUCTURE DETAILS
EX. SMH 11	RIM = 99.23 PIPE 11 INV OUT = 92.90
EX. SMH 15	RIM = 89.23 PIPE 14 INV IN = 76.21
SMH 13	RIM = 94.55 PIPE 12 INV IN = 87.00 PIPE 13 INV OUT = 86.90
SMH 12	RIM = 97.12 PIPE 11 INV IN = 89.88 PIPE 12 INV OUT = 89.70
SMH 14	RIM = 92.00 PIPE 13 INV IN = 81.90 PIPE 14 INV OUT = 81.20

DUTCHESS COUNTY DEPARTMENT OF BEHAVIORAL & COMMUNITY HEALTH



STORM SEWER PIPE TABLE						
IPE NAME	LENGTH	SIZE AND MATERIAL	SLOPE			
PIPE 7	85 LF	15" Ø CORR HDPE	3.06%			
PIPE 8	69 LF	15" Ø CORR HDPE	1.73%			
PIPE 9	106 LF	15" Ø CORR HDPE	0.47%			

SANITARY SEWER PIPE TABLE							
PIPE NAME	LENGTH	SIZE AND MATERIAL	SLOP				
PIPE 11	84 LF	24 inch PVC	3.58%				
PIPE 12	133 LF	24 inch PVC	2.04%				
PIPE 13	73 LF	24 inch PVC	6.812				
PIPE 14	117 LF	24 inch PVC	4.25%				



800-962-7962

☐ Call Before You Dig☐ Wait The Required Time

☐ Confirm Utility Response☐ Respect the Marks☐ Dig With Care

1 inch = 30 ft.

HUDSON LAND DESIGN 174 MAIN ST., BEACON, NEW YORK 12508 13 CHAMBERS ST., NEWBURGH, NEW YORK 12550 PH: 845-440-6926 F: 845-440-6637

GRADING AND UTILITY PLAN

23-28 CREEK ROAD CITY OF BEACON DUTCHESS COUNTY, NEW YORK

TAX ID: 6054-37-037625

1 inch = 5 ft.

JOB #: 2018:029 DATE: 10/23/2018 SCALE: SCALE: AS SHOW TITLE: GU-1

- PROPOSED CONNECTION OF 8"ø DIP WATER MAIN EXTENSION TO EXISTING VALVE STUB

EXISTING 8"Ø DIP
WATER MAIN INSTALLED
IN 2015

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK EDUCATION LAW