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**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT: BJ'S WHOLESALE CLUB-NEWBURGH
PROJECT NO.: 19-07
PROJECT LOCATION: SECTION 97, BLOCK 2, LOT 27.32, 44, 45, & 46.2
REVIEW DATE: 30 MAY 2019
MEETING DATE: 6 JUNE 2019
PROJECT REPRESENTATIVE: MASER CONSULTING, P.A.

1. The Stormwater Pollution Prevention Plan for the site should be prepared. The Stormwater Pollution Prevention Plan should address the stormwater hotspot use incorporated into the site plan involving the fuel dispensing use on the site.
2. The Planning Board should address whether sidewalks should be provided along NYS Route 17K. The Planning Board has had success in providing safe pedestrian routing along NYS Route 300 in the vicinity of the project. The Applicant's response identified some sidewalk at the project entrance drive which is not currently depicted on the plans.
3. Sizing calculations for the proposed grease trap on the sanitary line should be provided in accordance with NYSDEC design guidelines.
4. The location of the water main within Route 17K should be further evaluated. The Town Engineer's comments regarding the use of 90 degree bends on the water main should be received. Code Enforcement Office and jurisdictional Fire Department comments regarding location of hydrants on the site should be received.
5. A water service is depicted to the gasoline fueling island. Water Department comments regarding multiple water services to one parcel should be received.
6. The Applicant's representative requested to evaluate the location of a temporary sediment basin A as an existing stormwater management piping and facilities are located within this area.
7. The bio retention system cross section identifies Outlet Control Structure detail this sheet. No outlet control structure detail is depicted.

• Regional Office • 111 Wheatfield Drive • Suite 1 • Milford, Pennsylvania 18337 • 570-296-2765 •

8. Infiltration testing for the storm tech system should be provided.
9. City of Newburgh flow acceptance letter should be provided for the Planning Board's files.
10. NYSDOT comments regarding access drive should be provided.
11. The Planning Board is advised that the Applicants response letter identifies that the intersection of the main access road with the bus transportation facility north of the site meets the warrants for traffic control signals. Ken Wersted's comments regarding the traffic study will be received.
12. Water main details, hydrants, thrust restraint chart should be provided with the next submission.
13. The Applicant's representative are requested to evaluate the need for fencing at the stormwater management facilities and vehicle protection in the vicinity of the stormwater management facility.
14. Details of the proposed contact Filterra water quality device should be included in the plans.

Respectfully submitted,

***McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.***

Patrick J. Hines
Principal
PJH/lcr

DRAWING LEGEND

Table with 2 columns: Symbol and Description. Includes entries for PROPERTY BOUNDARY, EDGE OF ASPHALT, EXISTING CURB, DEPRESSION CURB, PAVEMENT STRIPING, OVERHEAD WIRES, WATERLINE MARKOUT, EASEMENTS, MAJOR CONTOUR, MINOR CONTOUR, SANITARY PIPES, STORMWATER PIPES, TREE/ROW / HEDGE, TREELINE, BOUNDARY EVIDENCE, SIGN, POST / BOLLARD, UTILITY POLE, GUY WIRE, LIGHT POLE, ROOF LEADER / OPEN ROOF DRAIN, TREE TO BE REMOVED, SANITARY MANHOLE, SANITARY CLEANOUT, DRAINAGE MANHOLE, WATER VALVE, CATCH BASIN, TBR - TO BE REMOVED, UTILITY POLE, DI - DRAIN INLET, CB = CATCH BASIN, CR = GRATE, CD = CLEANOUT, SAWCUT LINE, PAVEMENT TO BE REMOVED.

MASER CONSULTING, P.A. logo and contact information. Includes address: 155 Station Valley Avenue, Suite 101, New Windsor, NY 12553. Phone: 845.564.4995, Fax: 845.567.1055.

811 logo and text: PROTECT YOURSELF. ALL EXISTING UTILITIES MUST BE LOCATED PRIOR TO ANY DEMOLITION OR EXCAVATION. CALL 811 AT LEAST 48 HOURS BEFORE ANY DEMOLITION OR EXCAVATION WORK BEGINS.

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Professional seal for Andrew B. Fetherston, New York Licensed Professional Engineer, License Number 07555-1.

ANDREW B. FETHERSTON
NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER 07555-1

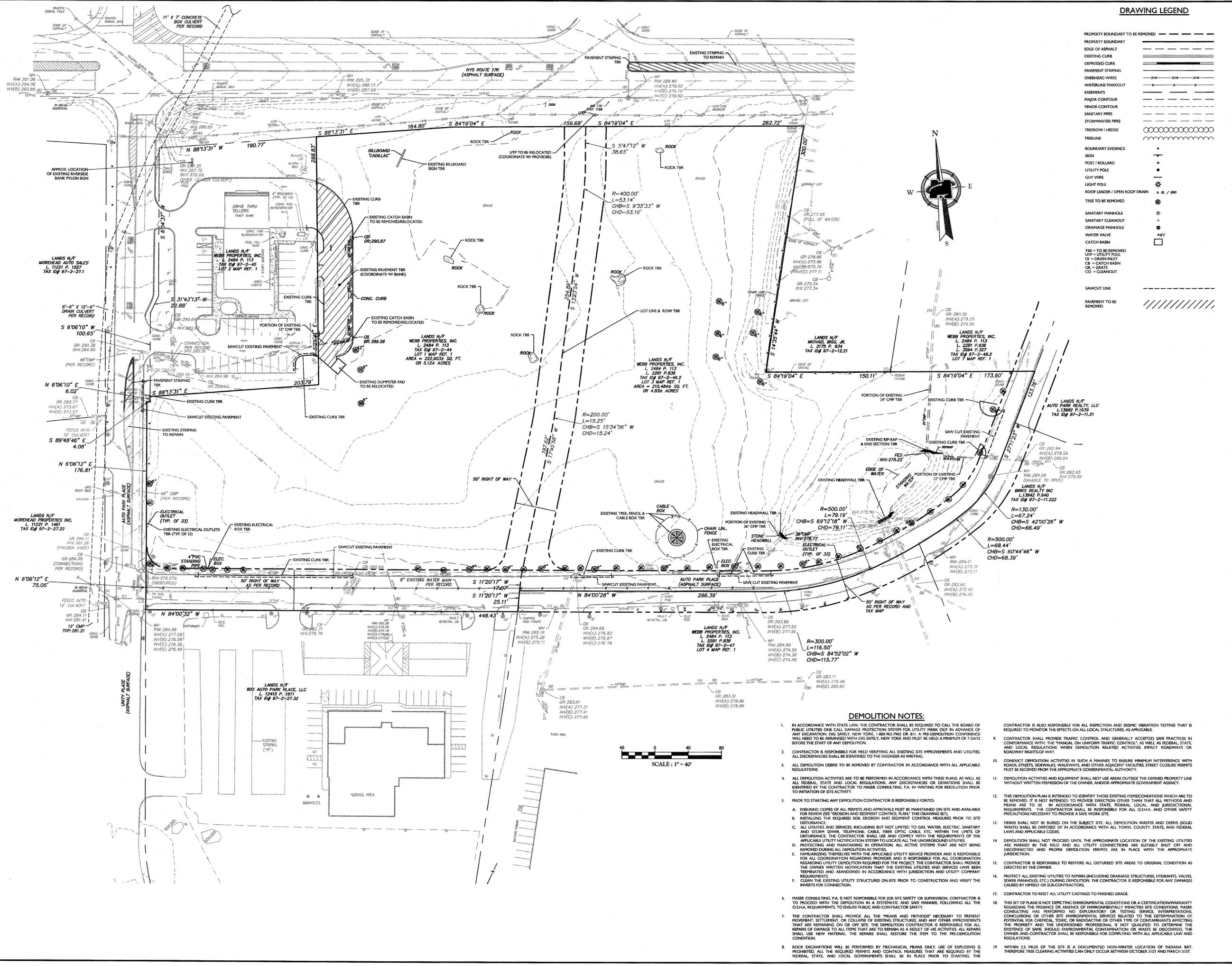
Bj's WHOLESALE CLUB
FOR
GDPBJ, LLC

SECTION 97
BLOCK 2
LOTS 27.32, 44, 45 & 46.2
TOWN OF NEWBURGH
ORANGE COUNTY
NEW YORK STATE

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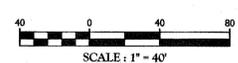
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SITE DEMOLITION PLAN



- DEMOLITION NOTES:
- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION, DIG SAFETY, NEW YORK, OR 811. A PRE-DEMOLITION CONFERENCE WILL NEED TO BE ARRANGED WITH DIG SAFETY, NEW YORK AND MUST BE HELD A MINIMUM OF 7 DAYS BEFORE THE START OF ANY DEMOLITION.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
 - ALL DEMOLITION DEBRIS TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
 - ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS, AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO MASER CONSULTING, P.A. IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
 - PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR:
 - ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW (SEE EROSION AND SEDIMENT CONTROL PLAN THIS DRAWING SET).
 - INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
 - PROTECTING AND MAINTAINING IN OPERATION ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
 - FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEPOSITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
 - CLEAN THE EXISTING UTILITY STRUCTURES ON-SITE PRIOR TO DEMOLITION AND VERIFY THE INVERTS FOR CONNECTION.
 - MASER CONSULTING, P.A. IS NOT PROVIDING FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE O.S.H.A. REQUIREMENTS, TO INSURE PUBLIC AND CONTRACTOR SAFETY.
 - THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
 - ROCK EXCAVATIONS WILL BE PERFORMED BY MECHANICAL MEANS ONLY. USE OF EXPLOSIVES IS PROHIBITED. ALL THE REQUIRED PERMITS AND CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING. THE

- CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES, AS APPLICABLE.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS. WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
- CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADWAYS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
- DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE AGENCY.
- THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL O.S.H.A. AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
- DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOIL WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.
- DEMOLITION SHALL NOT PROCEED UNTIL THE APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SUITABLY SHUT OFF AND DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE APPROPRIATE JURISDICTION.
- CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DISTURBED SITE AREAS TO ORIGINAL CONDITION AS DIRECTED BY THE OWNER.
- PROTECT ALL EXISTING UTILITIES TO REMAIN INCLUDING DRAINAGE STRUCTURES, HYDRANTS, VALVES, SEWER MANHOLES, ETC. DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.
- CONTRACTOR TO RESET ALL UTILITY CASTINGS TO FINISHED GRADE.
- THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. MASER CONSULTING HAS PERFORMED NO GEOLOGICAL OR TESTING SERVICE. INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF POTENTIAL FOR CHEMICAL, TOXIC OR RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERGROUND PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAW AND REGULATIONS.
- WITHIN 2.5 MILES OF THE SITE IS A DOCUMENTED NON-WINTER LOCATION OF INDIANA BAT. THEREFORE TREE CLEARING ACTIVITIES CAN ONLY OCCUR BETWEEN OCTOBER 31ST AND MARCH 31ST.



REV	DATE	DRAWN BY	DESCRIPTION

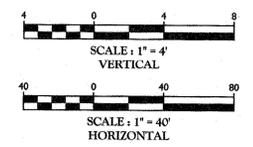
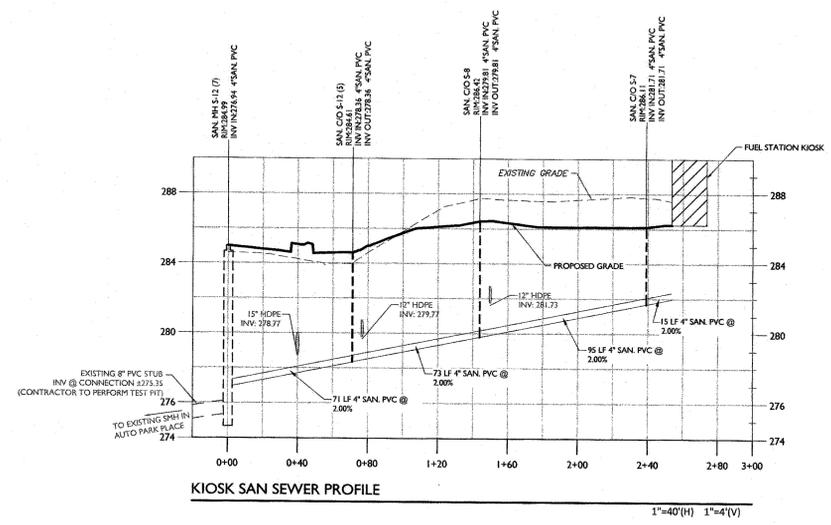
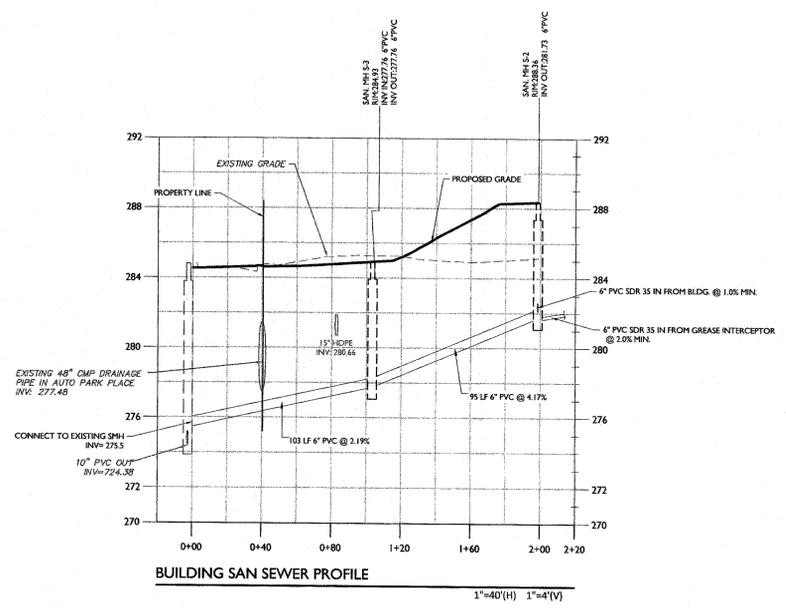
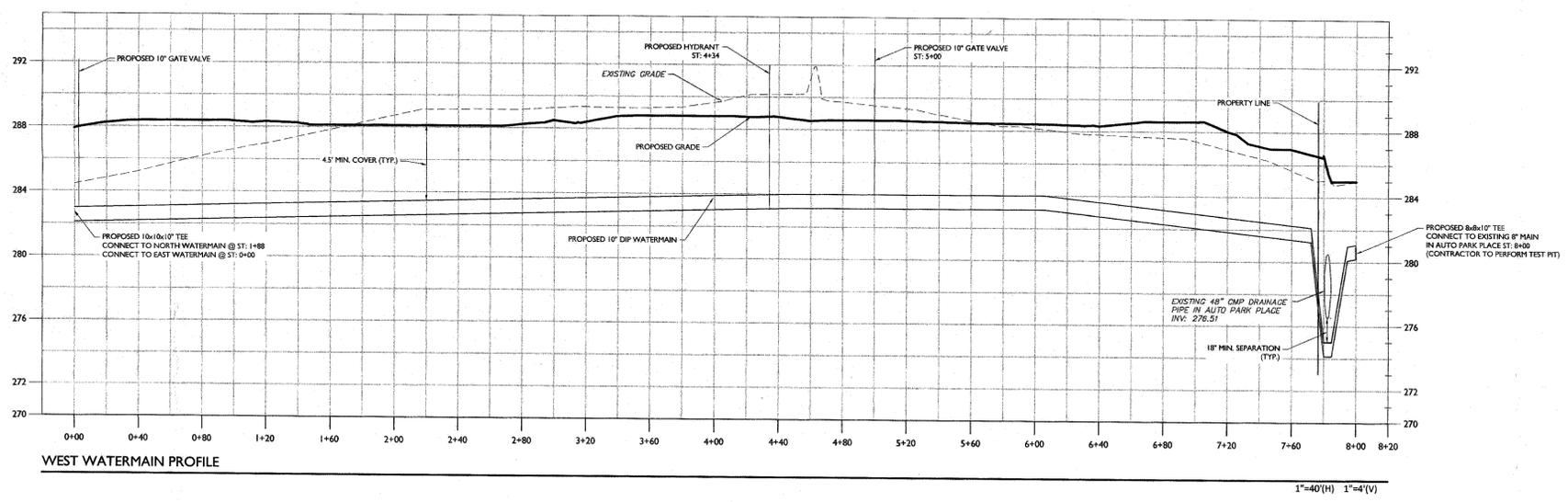
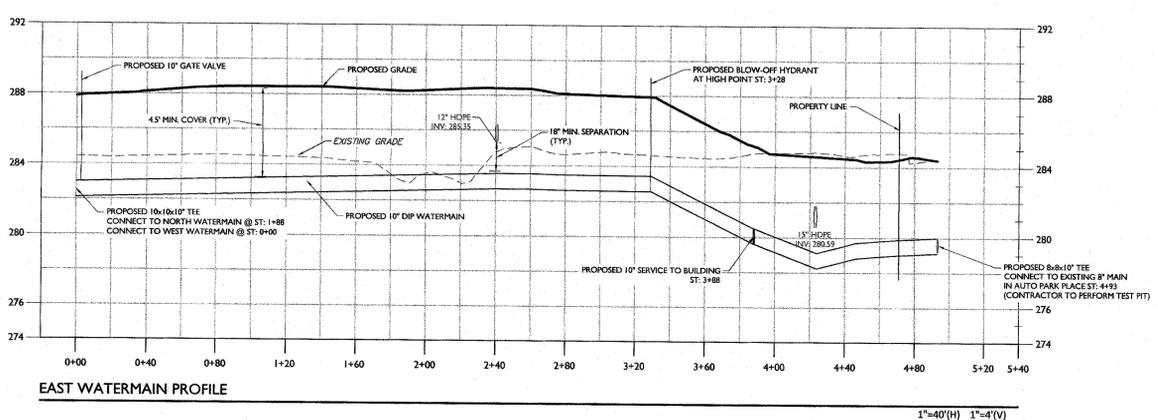
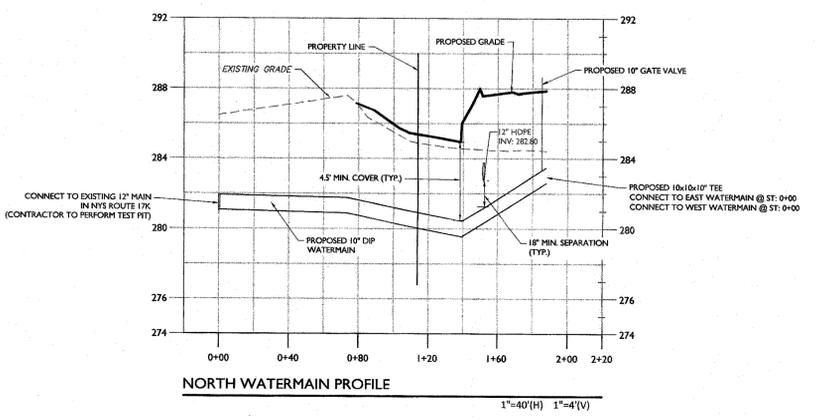
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SEAL OF THE STATE OF NEW YORK
 ANDREW B. FETHERSTON
 NEW YORK LICENSED PROFESSIONAL
 ENGINEER - LICENSE NUMBER: 073555-1

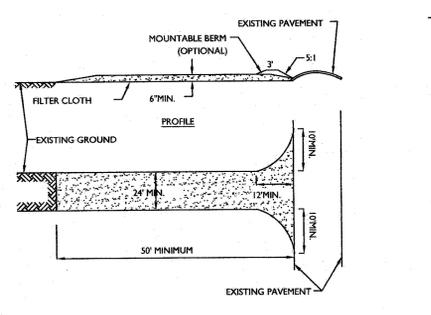
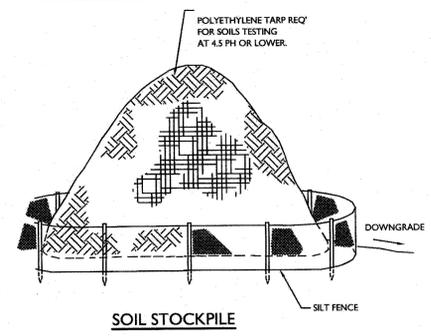
BJ's WHOLESALE CLUB
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 LOTS 27.32, 44, 45 & 46.2
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 Fax: 845.547.1035

SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	05/24/19	CDR	ABF
PROJECT NUMBER:	18050471A	DRAWING NAME:	CUTLE
SHEET TITLE: UTILITY PROFILES			
SHEET NUMBER: 06 of 14			

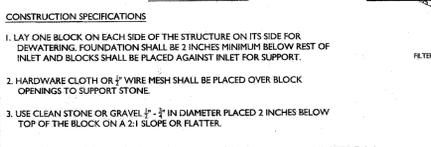
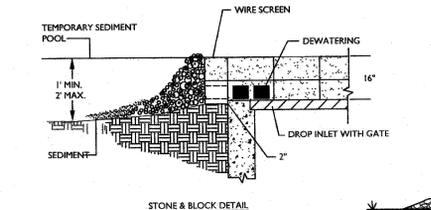
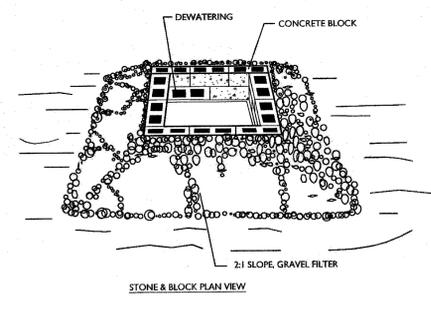


NOTE
 SANITARY STRUCTURES ARE SHOWN ON PROFILES AS OUTSIDE OF THE STRUCTURE.
 THERE ARE NO SLUMPS PROPOSED IN THE SANITARY MAINHOUSES.

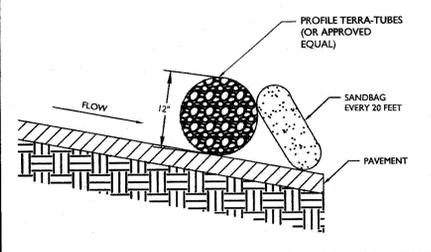


- PLAN VIEW**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. LENGTH - NOT LESS THAN 50 FEET
 - THICKNESS - NOT LESS THAN 6" INCHES
 - WIDTH - 24"
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED
 - TOWARD CONSTRUCTION ENTRANCES SHALL BE PILED ACROSS THE ENTRANCE. IF PILING IS IMPRACTICAL, A MOUNTING BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
 - AFTER EACH RAIN.

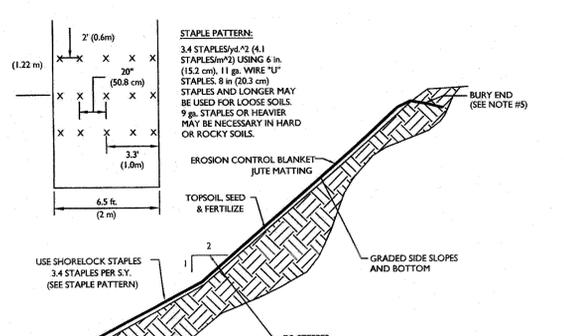
STABILIZED CONSTRUCTION ENTRANCE
 N.T.S.



STONE & BLOCK DROP INLET PROTECTION
 N.T.S.

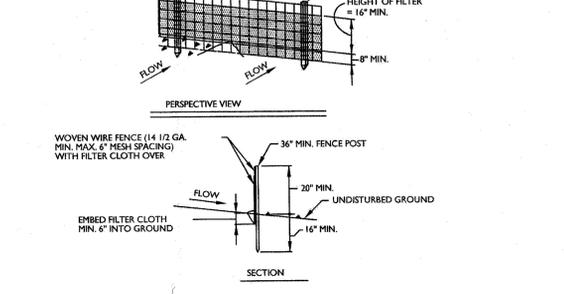


COMPOSITE FILTER SOCK INSTALLATION ON PAVEMENT
 N.T.S.



- NOTES**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF TOPSOIL, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 cm) DEEP X 6" (15 cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - ROLL BLANKETS IN DIRECTION OF WATER FLOW.
 - PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" (15 cm) OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" (10cm) APART TO SECURE BLANKETS.
 - FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" (15 cm) DEEP X 6" (15 cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" (10 cm) OVER THE CENTER BLANKET AND STAPLED 12" (3 cm) FOR CROSS MATTING.
 - THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" (15 cm) DEEP X 6" (15 cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - EROSION CONTROL BLANKET SHALL BE JUTE MATTING.

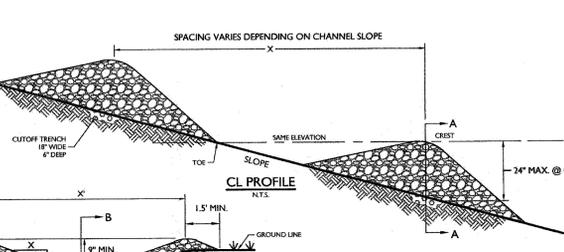
SLOPE STABILIZATION DETAIL
 N.T.S.



TEMPORARY TREE PROTECTION DETAIL
 N.T.S.

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPAVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

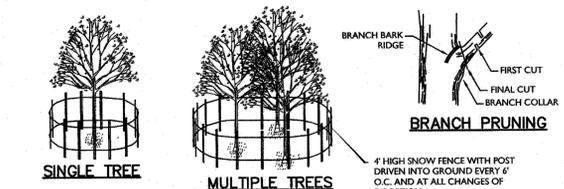
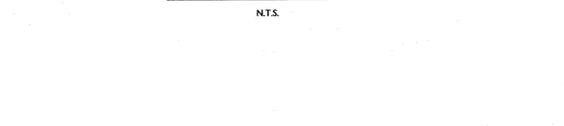
WIRE REINFORCED SILT FENCE
 N.T.S.



STONE CHECK DAM
 N.T.S.

- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.
 - SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 - EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL AFFURTHANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- MAXIMUM DRAINAGE AREA: 2 ACRES

CONSTRUCTION FENCE
 N.T.S.



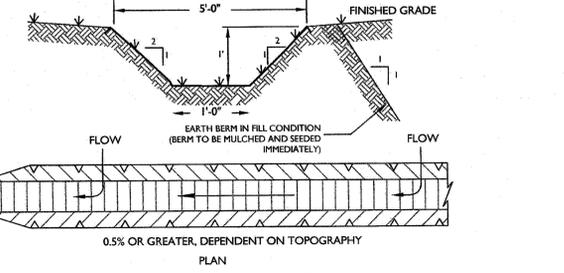
BRANCH PRUNING

- NOTES**
- PROTECTIVE FENCING IS TO BE ERECTED PRIOR.
 - NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. THE PROTECTIVE FENCING, ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER.
 - AS CONSTRUCTION NEARS COMPLETION THE FENCING SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY. WILL BE REMOVED AS DIRECTED. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A.
 - AT THE COMPLETION OF CONSTRUCTION ALL TREES PROFESSIONAL FORESTER OR CERTIFIED TREE EXPERT. WILL BE PRUNED AS NECESSARY TO CORRECT ANY.
 - GENERAL MECHANICAL DAMAGE - SEE DETAIL ABOVE COLLAR. THERE SHOULD BE NO FLUSH CUTS. FLUSH CUTS FOR CORRECT PLACEMENT OF TREE PROTECTION. DESTROY A MAJOR DEFENSE SYSTEM OF THE TREE. NO TREE PAINT SHALL BE APPLIED. ALL CUTS SHALL BE MADE AT.
 - BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO THE OUTSIDE EDGE OF THE BRANCH COLLAR. CUTS MADE TOO PREVENT MECHANICAL INJURY. FENCING OR OTHER BAR BEYOND THE BRANCH COLLAR MAY LEAD TO EXCESS BARREN SHOULD BE INSTALLED AT THE DRIP LINE SPROUTING, CRACKS AND ROT. REMOVAL OF A "Y" CROTCH OF THE TREE BRANCHES SHOULD BE CONSIDERED FOR FREE STANDING SPECIMEN TREES TO AVOID FUTURE SPLITTING DAMAGE.
 - BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
 - FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA TO CONSTRUCTION AND MAINTAINED DURING INSIDE THE DRIP LINE OF THE TREE BRANCHES. CONSTRUCTION AS DIRECTED BY THE LANDSCAPE ARCHITECT, SOIL CONSERVATION DISTRICT AND/OR DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE MUNICIPAL ENGINEER. DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED.
 - TREE LIMB REMOVAL WHERE NECESSARY, WILL BE DONE AS DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY. NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH.

TEMPORARY TREE PROTECTION DETAIL
 N.T.S.

TREE PROTECTION NOTES:

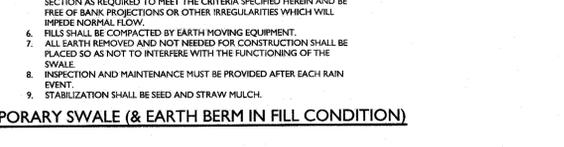
- TREE PROTECTION FENCING TO BE INSTALLED ALONG THE DISTURBANCE LIMIT LINE WHEREVER EROSION CONTROL FENCING IS NOT PROPOSED.
- THERE SHALL BE NO STORAGE OF EQUIPMENT OR MATERIALS OUTSIDE CLEARING LIMITS. NO EQUIPMENT IS PERMITTED OUTSIDE CLEARING LIMITS.
- THE FENCING SHOULD REMAIN IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION PERIOD.



TEMPORARY SWALE (& EARTH BERM IN FILL CONDITION)

- INSTALLATION NOTES**
- ALL SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE. GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPERE NORMAL FLOW.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - INSPECTION AND MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
 - STABILIZATION SHALL BE SEED AND STRAW MULCH.

CONSTRUCTION FENCE
 N.T.S.



COMPOSITE FILTER SOCK DETAIL
 N.T.S.



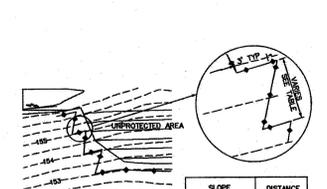
STONE OUTLET SEDIMENT TRAP TABLE

SEDIMENT TRAP	DRAINAGE AREA	AREA (L1 X W)	DEPTH (FT.)	VOLUME REQ'D (C.F.)	VOLUME PROVIDED (C.F.)
A	<4.5 ACRES	130' X 70"	2.0 FT.	16,200 C.F.	18,200 C.F.
B	<4.0 ACRES	200' X 30"	2.5 FT.	14,400 C.F.	15,000 C.F.

DIA. (in.)	SLOPE%					
	2	5	10	20	25	33
12	250*	225	125	65	50	40
18	275	250	150	70	55	45
24	350	275	200	130	100	60
32	450	325	275	150	120	75

*Length in feet

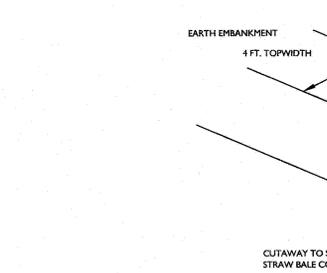
- NOTES**
- ALL MATERIAL TO MEET THE LATEST NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL SPECIFICATIONS.
 - COMPOST/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
 - FILTER SOCK AND COMPOST MATERIAL TO BE DISPOSED OF BY CONTRACTOR AFTER USE.



SILT FENCE INSTALLATION
 (WHEN NOT PARALLEL TO CONTOURS)
 N.T.S.

- INSTALLATION NOTES**
- EXCAVATE A 4 INCH X 6 INCH TRENCH, OFFSET APPROXIMATELY 2 FEET FROM THE INLET PERIMETER.
 - UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
 - DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM AND TAMP THE SOIL. STEEP SLOPES REQUIRE AN INTERCEPT TRENCH.
 - JOIN SECTIONS AS SHOWN ABOVE. SUPPLEMENT WITH GRAVEL, PILED AGAINST THE FENCE.
 - SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
 - THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

STORM INLET SEDIMENT TRAP
 N.T.S.



INSTALLATION NOTES

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS WELL.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL AND OTHER QUESTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
- ALL CUT AND FILL SLOPES SHALL BE 1:2 OR FLATTER.
- THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.

CONSTRUCTION NOTES

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPAVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

WIRE REINFORCED SILT FENCE
 N.T.S.

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
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 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPAVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

STONE & BLOCK DROP INLET PROTECTION
 N.T.S.

- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- HARDWARE CLOTH OR 2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- USE CLEAN STONE OR GRAVEL 1/2" - 1" IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.

STONE CHECK DAM
 N.T.S.

- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.
 - SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 - EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL AFFURTHANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- MAXIMUM DRAINAGE AREA: 2 ACRES

CONSTRUCTION FENCE
 N.T.S.

- INSTALLATION NOTES**
- ALL SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE. GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPERE NORMAL FLOW.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - INSPECTION AND MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
 - STABILIZATION SHALL BE SEED AND STRAW MULCH.

TEMPORARY TREE PROTECTION DETAIL
 N.T.S.

- TREE PROTECTION NOTES:**
- TREE PROTECTION FENCING TO BE INSTALLED ALONG THE DISTURBANCE LIMIT LINE WHEREVER EROSION CONTROL FENCING IS NOT PROPOSED.
 - THERE SHALL BE NO STORAGE OF EQUIPMENT OR MATERIALS OUTSIDE CLEARING LIMITS. NO EQUIPMENT IS PERMITTED OUTSIDE CLEARING LIMITS.
 - THE FENCING SHOULD REMAIN IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION PERIOD.

TEMPORARY SWALE (& EARTH BERM IN FILL CONDITION)

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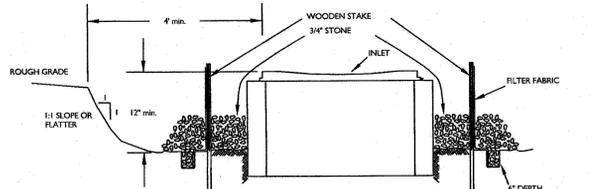
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CONSTRUCTION FENCE
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CONSTRUCTION NOTES

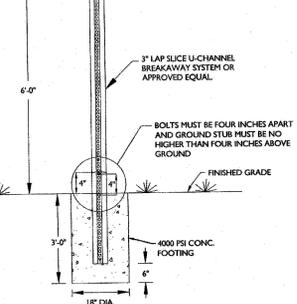
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WIRE REINFORCED SILT FENCE
 N.T.S.

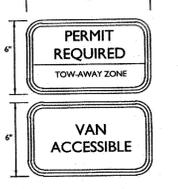
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STONE & BLOCK DROP INLET PROTECTION
 N.T.S.

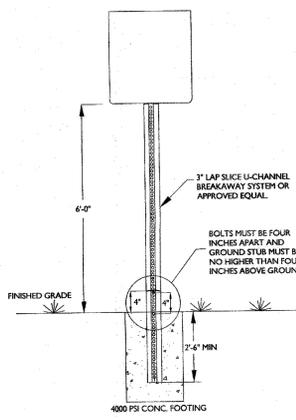
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- USE CLEAN STONE OR GRAVEL 1/2" - 1" IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLO



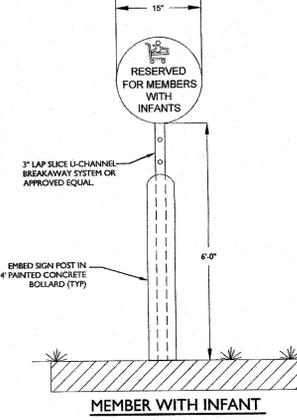
BREAKAWAY STOP SIGN WITH POST DETAIL N.T.S.



SIGN FOR ACCESSIBLE PARKING N.T.S.



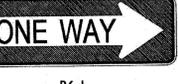
BREAKAWAY SIGN POST DETAIL N.T.S.



MEMBER WITH INFANT SIGN DETAIL N.T.S.



RIGHT TURN ONLY SIGN (R3-5R) N.T.S.



ONE WAY SIGN N.T.S.



NO PARKING ANY TIME SIGN (R7-1) N.T.S.



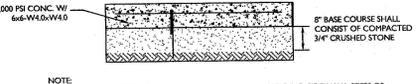
DO NOT ENTER SIGN (R5-1) N.T.S.



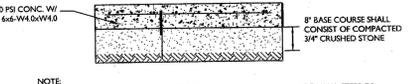
PROPANE FILLING PARKING ONLY SIGN N.T.S.



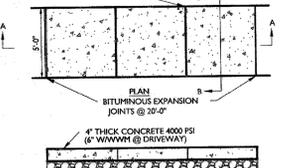
TIRE CENTER PARKING ONLY SIGN N.T.S.



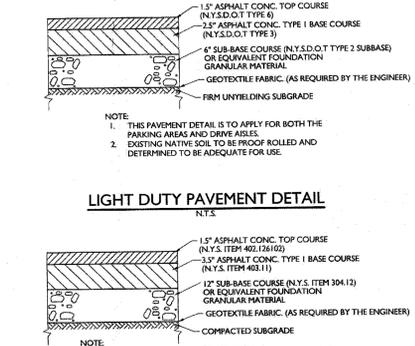
CONCRETE PAD DETAIL (LIGHT) N.T.S.



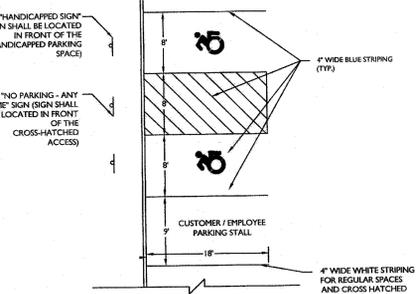
CONCRETE PAD DETAIL (HEAVY) N.T.S.



LIGHT DUTY PAVEMENT DETAIL N.T.S.



HEAVY DUTY PAVEMENT DETAIL N.T.S.



PARKING STALL STRIPING DETAIL N.T.S.



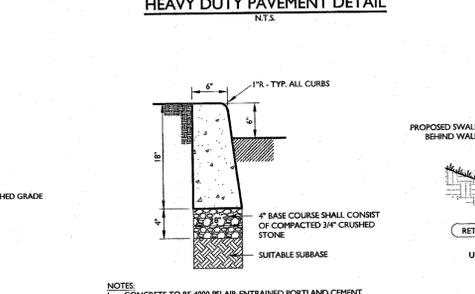
LANE PAINTED STOP BAR & ARROWS N.T.S.



TERMINAL CURB DETAIL N.T.S.



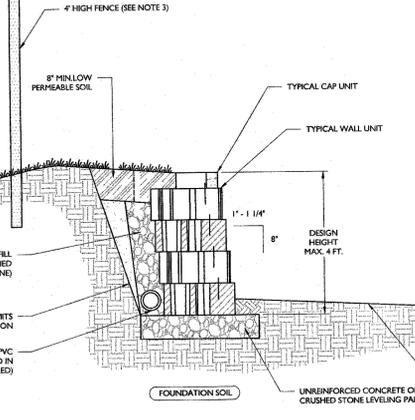
TIMBER GUIDE RAIL DETAIL N.T.S.



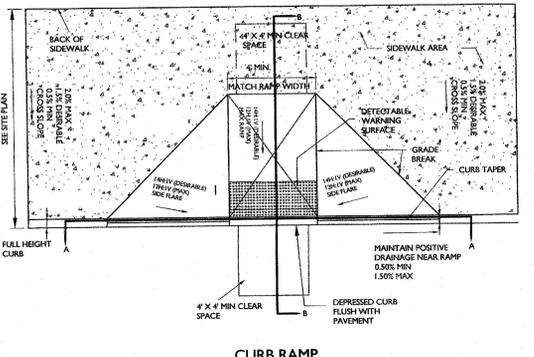
CONCRETE CURB FOR ON-SITE N.T.S.



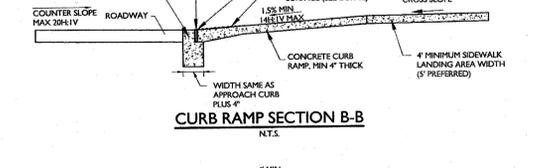
CONCRETE SIDEWALK N.T.S.



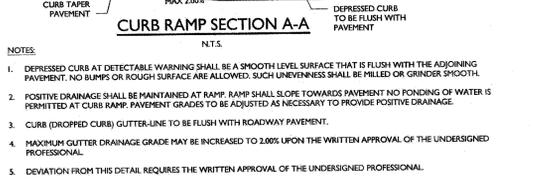
TYPICAL GRAVITY BLOCK WALL SECTION (MAXIMUM 4 FT. DESIGN HEIGHT) DETAIL N.T.S.



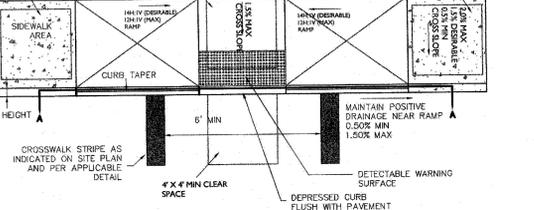
CURB RAMP SECTION B-B N.T.S.



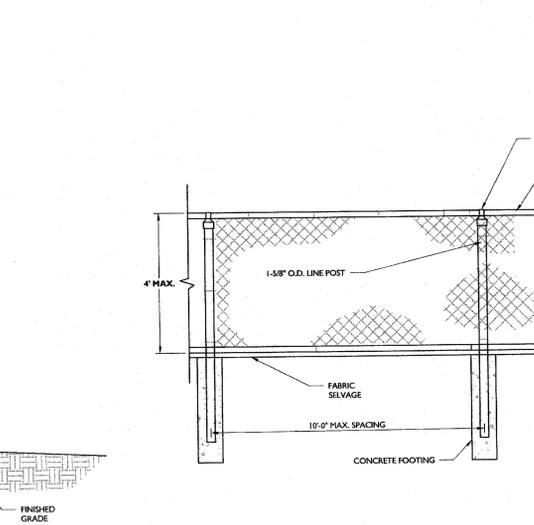
CURB RAMP SECTION A-A N.T.S.



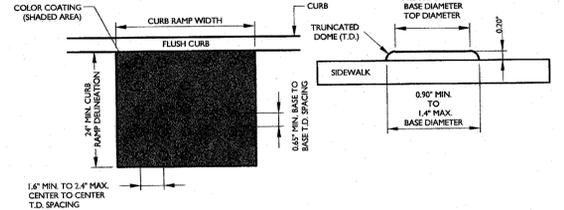
TYPICAL PARALLEL CURB RAMP N.T.S.



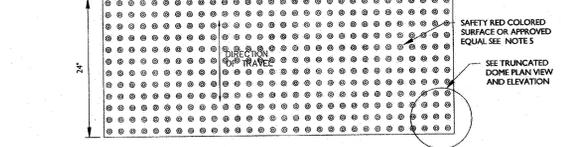
HAND RAIL CLEARANCE DETAIL N.T.S.



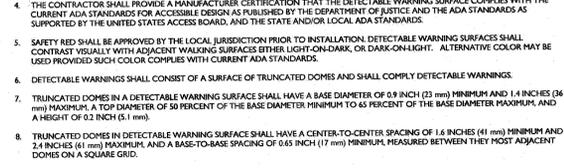
4" HIGH CHAIN LINK FENCE DETAIL N.T.S.



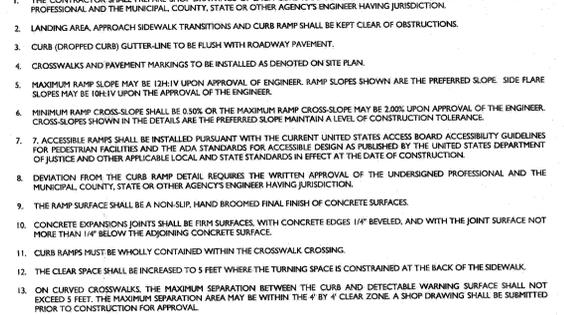
PLAN VIEW ENLARGEMENT TRUNCATED DOME ELEVATION



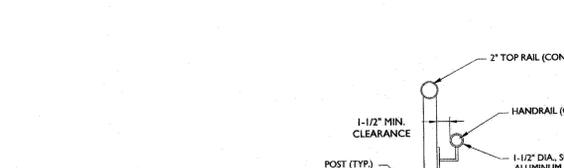
DETECTABLE WARNING SURFACE N.T.S.



CURB RAMP NOTES



HAND RAILING SECTION N.T.S.



NOTES

MASER CONSULTING, P.C. logo and contact information including address, phone, and website.

811 logo and text: PROTECT YOURSELF. Call before you dig. FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

Professional Engineer registration table with columns for State, License Number, and Status.

Professional Engineer seal for Andrew B. Fetherston, State of New York, License Number 07355-1.

Project information for Section 97 Block 2 Lots 27.32, 44, 45 & 46.2, Town of Newburgh Orange County New York State.

Construction details sheet information including title 'CONSTRUCTION DETAILS', sheet number '11 of 14', and drawing name 'C-DTLS'.

