

RICHARD D. McGOEY, P.E. (NY & PA) WILLIAM J. HAUSER, P.E. (NY, NJ & PA) MARK J. EDSALL, P.E. (NY, NJ & PA) MAIN OFFICE
33 Airport Center Drive
Suite 202
New Windsor, New York 12553

(845) 567-3100 fax: (845) 567-3232 e-mail: mheny@mhepc.com

#### TOWN OF NEWBURGH PLANNING BOARD REVIEW COMMENTS

PROJECT: BRITAIN PLAZA

PROJECT NO.: 13-13

PROJECT LOCATION: SECTION 97, BLOCK 3, LOT 1

PROJECT REPRESENTATIVE: LANC & TULLY, PC REVIEW DATE: 18 AUGUST 2014 MEETING DATE: 21 AUGUST 2014

1. The Applicant's Representative has revised the plans pursuant to our previous comments and comments received from the Planning Board on 7 August 2014. A rendering of the dumpster enclosure along with additional information regarding landscaping has been provided. Landscaping has been modified to be consistent with the adjoining Crystal Run Realty site, lighting plan has been modified incorporating pedestrian style lighting on the site and a letter summarizing sewer flows from this site as well as adjoining Crystal Run site consistent with the 2008 City of Newburgh Flow Grant for both parcels.

Respectfully submitted,

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

Patrick J. Hines Associate

#### LANC & TULLY

#### ENGINEERING AND SURVEYING, P.C.

John J. Lane, P.E., L.S., P.P. David E. Higgins, P.E. Rodney C. Knowlton, L.S.

Mr. John Ewasutyn, Chairman Town of Newburgh Planning Board 308 Gardnertown Road Newburgh, NY 12550 August-11, 2014

August-11, 2014

2014

TOWN OF NEWBURGH
PLANNING BOARD

Arthur R. Tully, P.E. John J. O'Rourke, P.E. John D. Russo, P.E.

Britain Plaza – Commercial Site Plan
Tax Parcel: 97 – 3 – 1

Planning Board No.: 2013-13

Dear Chairman Ewasutyn and Members of the Planning Board:

Enclosed and as requested please find twelve (12) complete plan sets a Site Plan entitled "Commercial Site Plan – Britain Plaza", Sheets 1-6 of 6, dated June 30, 2014 and last revised August 8, 2014. The site plan set has been revised to address comments received from the Planning Board Members and the consultants. To assist in your review, we have annotated the revisions below:

- 1. As requested, attached is an elevation of the proposed 6 foot high dumpster enclosure with the proposed landscaping screening as prepared by DeGraw and DeHaan Architects. With a focus on building green/reducing environmental impact, the architects are proposing Kingston Block's Pozzotive CMU (30% replacement of Portland cement with postconsumer recycled material and manufactured locally in Ulster County). The rendering depicts an "Ulster Wheat" split face finish. They have chosen a darker earth tone in order to minimize visual impact and to tie the dumpster enclosure color in with some of the darker earth tones in the stone base. The landscaping plan has also been revised to indicate the larger initial planting sizes for the American Holly (5'-6', B&B) and the Dense Inkberry Holly (3'-3.5', B&B).
- 2. The landscaping plan has been revised to indicate London Plane trees to be planted along NYS Route 300, consistent with the tree species along NYS Route 300 on the adjoining CRH Realty VIII site.
- 3. The lighting plan has been revised to 16 foot pole heights. Please note that because of the reduced pole heights, additional fixtures have been incorporated.
- 4. Attached is a letter outlining the 2008 City of Newburgh permitted Sewer Flows (South Union Plaza) and the total estimated flows for the combined CRH Realty VIII and Britain Plaza site plans; the combined site plans are estimated to generate 1,565 gallons per day less than the approved South Union Plaza.

As discussed at the August 7, 2014 meeting, the Public Hearing for the Zoning Amendment to allow banks in the IB Zoning District was closed on August 4, 2014; the Town Board was unable to adopt the Local Law, pending SEQR action by the Planning Board as Lead Agency. With the issuance of the Negative Declaration by the Planning Board on August 7, 2014, the proposed Local Law is on the August 20, 2014 Town Board agenda for adoption.

By copy of this letter, a complete package is being provided directly to Mr. Michael Donnelly, Esq., and Mr. Ken Wersted, PE.

By submission of the enclosed, we respectfully request placement on the next available Planning Board agenda and look forward to further discussing the proposed project. We trust the enclosed is satisfactory; however, if you have any questions or require any further information, please do not hesitate to contact our office.

Very truly yours,

LANC & TULLY, P.C.

D<del>al</del>vn M. Kalisky Project Manager

Enc.

cc:

Michael Donnelly, Esq., Planning Board Attorney (w/enc) Ken Wersted, PE, Planning Board Traffic Consultant (w/enc) Angelo Danza, The Old Britain Group, LLC (w/enc) Robert DiNardo, Esq. (w/enc)

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#### LANC & TULLY

#### ENGINEERING AND SURVEYING, P.C.

John J. Lane, P.E., L.S., P.P. David E. Higgins, P.E. Rodney C. Knowlton, L.S.

August 8, 2014

Arthur R. Tully, P.E. John J. O'Rourke, P.E. John D. Russo, P.E.

Mr. John Ewasutyn, Chairman Town of Newburgh Planning Board 308 Gardnertown Road Newburgh, NY 12550

RE:

Britain Plaza - Commercial Site Plan

Tax Parcel: 97 - 3 - 1

Planning Board No.: 2013-13

Dear Chairman Ewasutyn and Members of the Planning Board:

On June 20, 2008, the City of Newburgh granted permission for connection of the sewer discharge of the South Union Plaza (previously approved site plan on the subject and adjoining properties) with a flow of 9,622 gallons per day. A copy of the approval letter is attached.

Based on NYSDEC standards, the wastewater flows generated by the mixed use Britain Plaza and the CRH Realty VIII approved site plan are estimated as follows:

<u>Use</u>	NYSDEC Standard	Estimate Wastewater Flow
Office Building (66,070 SF – CRH)	0.1 gpd / SF	6,607 gpd
Bank and Retai (4,500 SF)	0.1 gpd / SF	450 gpd
Fast Food (40 seats total)	25 gpd / seat	<u>1,000 gpd</u>
Total Estimate Flow Con	8,057 gpd	

Of the previously approved 9,622 gallons per day wastewater flow capacity, the combined CRH Realty VIII, LLC and the Britain Plaza sites are estimated to generate a total of 8,057 gallons per day; resulting in approximately 1,565 gallons per day of excess previous approval capacity. The excess capacity does not take into account any credits for the connection(s) of the previous uses on the subject parcels.

We trust the enclosed is satisfactory; however, if you have any questions or require any further information, please do not hesitate to contact our office.

Very truly yours,

LANC & TULLY, P.C.

'Daw'n M. Kalisky Project Manager

swr appvl 8-8-14.doc

Fax: (845) 569-7370



# ITY OF NEWBURGH

#### OFFICE OF THE CITY MANAGER

City Hall - 83 Broadway, Newburgh, New York 12550 jmcgrane@cityofnewburgh-ny.gov

www.cityofnewburgh-ny.gov

Jean-Ann McGrane, Esq., M.S. City Manager

June 20, 2008

Town of Newburgh Engineering Department 308 Gardnertown Road Newburgh, New York 12550

ATTN:

JAMES OSBORNE, P.E., TOWN ENGINEER

SUBIECT:

DISCHARGE OF THE SOUTH UNION PLAZA (Route

300 and Little Britain Road) TO CITY OF NEWBURGH WASTEWATER

TREATMENT FACILITY

Dear Mr. Osborne,

Pursuant to your letter of March 6, 2008 and in accordance with the provisions of the Inter-municipal Sewer Agreement dated May 6, 2004 we have reviewed the description of this project as described in the project narrative dated February 20, 2008 prepared by Shaw Engineering. It is noted that this project was not included on the list of projects furnished by your office describing inclusion in the original 2 million gallon per day flow to be discharged to the City system. We assume therefore that the sewage flow from this retail/food service site (9,622 gallons per day) is to be included in the 1.8 million gallons per day allocation available with the construction of the first expansion of the sewage treatment plant by the Town.

Based upon the above permission is hereby granted for this connection.

Please advise this office when you believe initial flow from this project is to commence and, since the anticipated flow is large, a projected schedule of flow increases based on development schedule.

If you have questions regarding this approval please contact me at your convenience.

Very truly yours

CITY OF NEWBURGH

JEAN ANN McGRANE, ESQ., M.S.

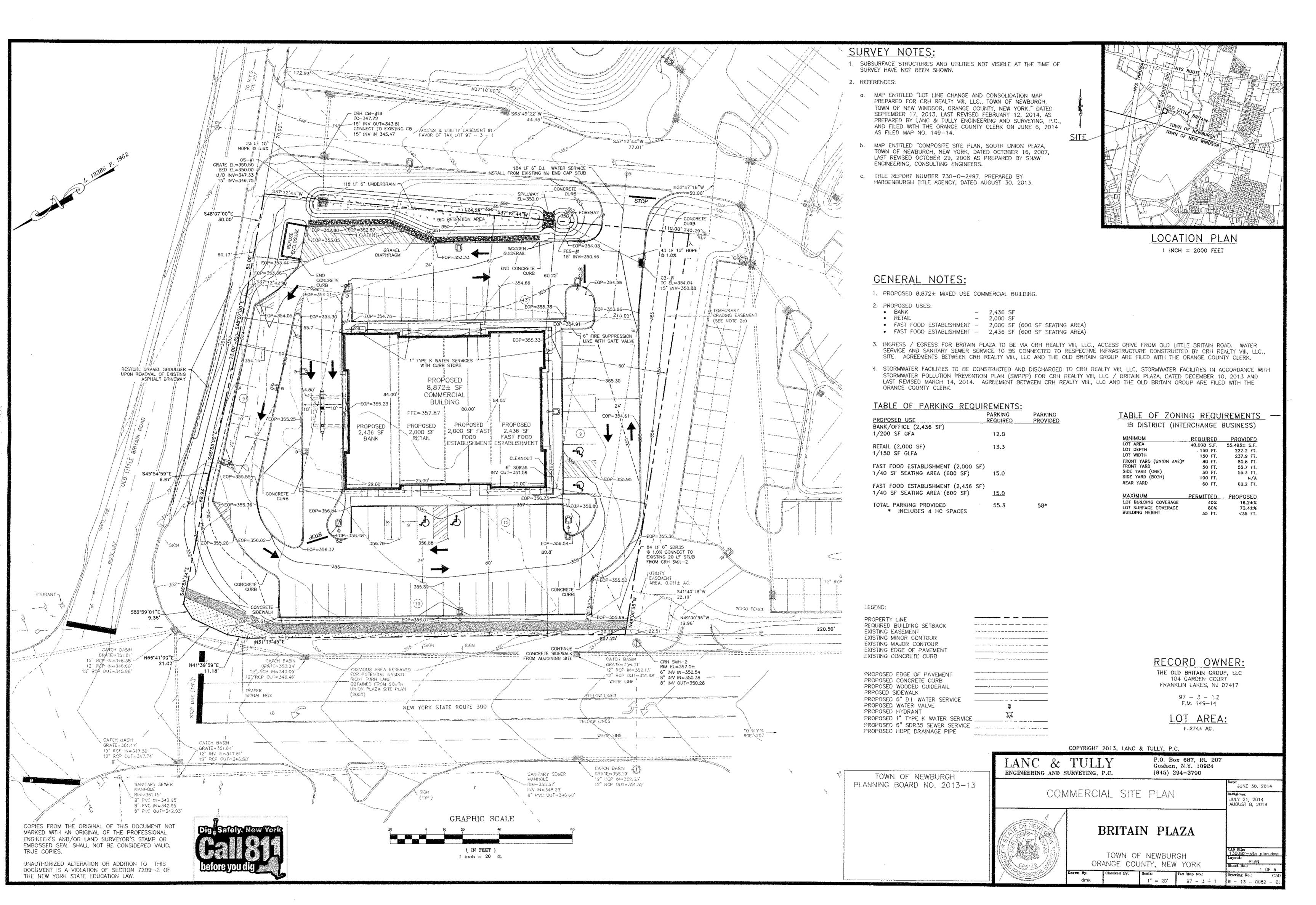
CITY MANAGER

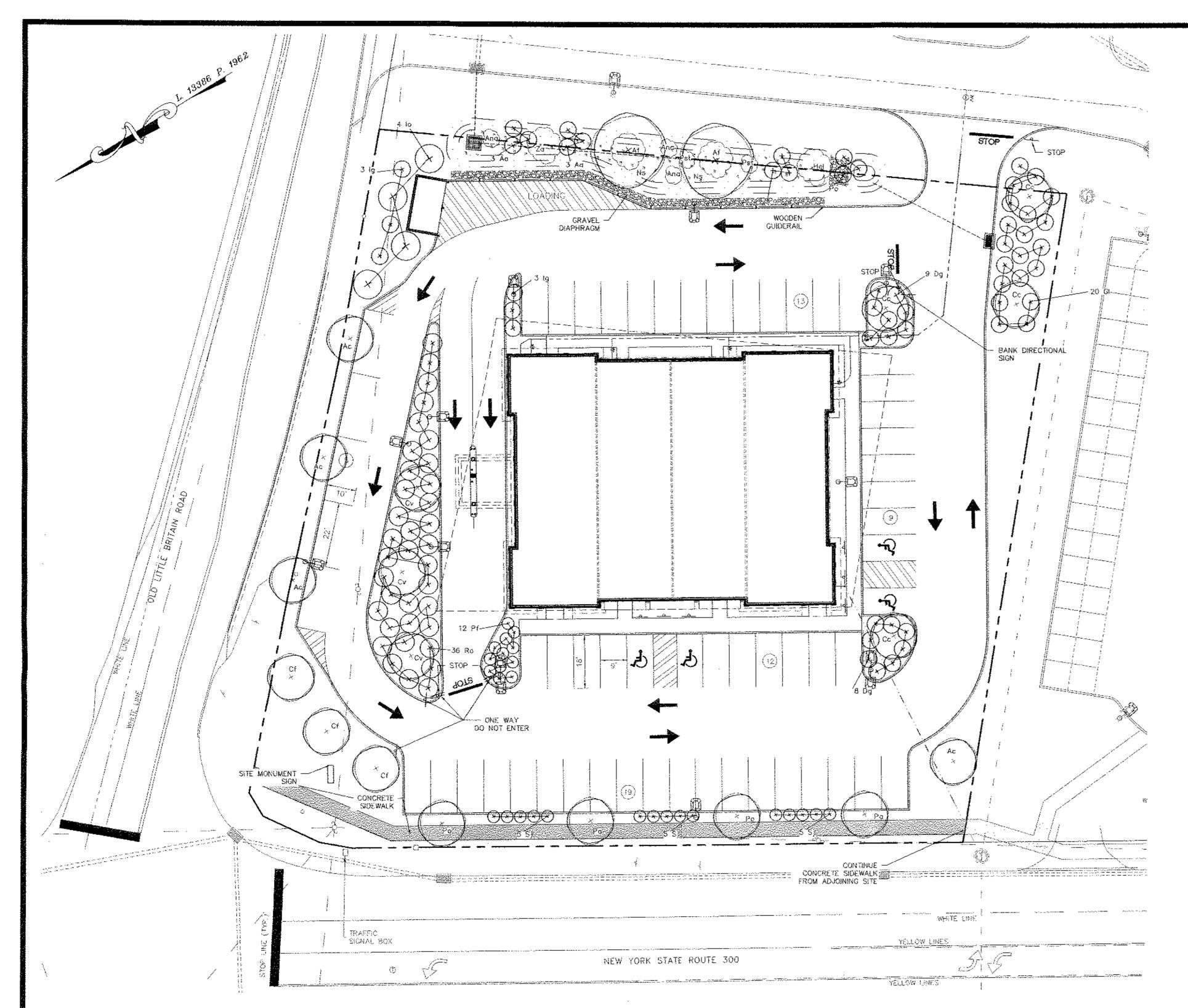
JAM/ee

Geoffrey Chanin, Corporation Counsel Cc: Dale Post, Severn Trent Services

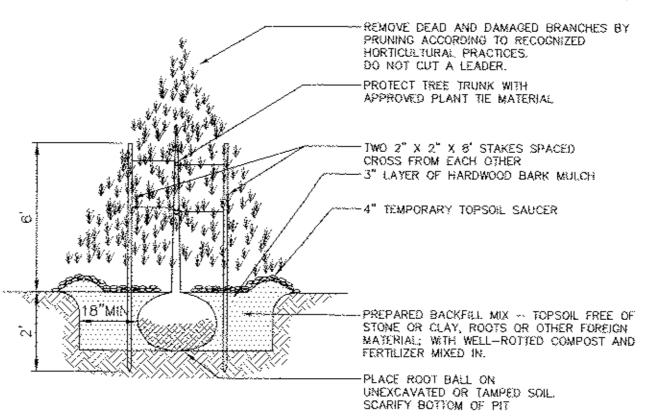
William J. Hauser, P.E., City Consulting Engineer

copies to: W. Booth, Supervisor
M. Taylor, Esq.
Sewer Dept.
Planning Board
Garling Assoc.
G. Shaw

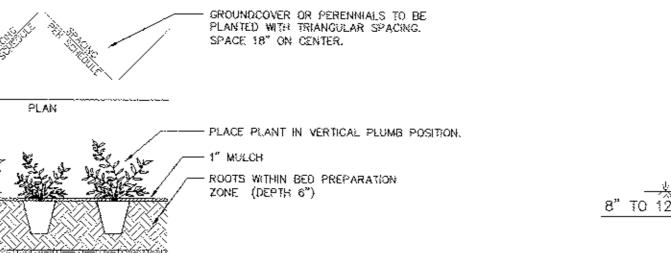




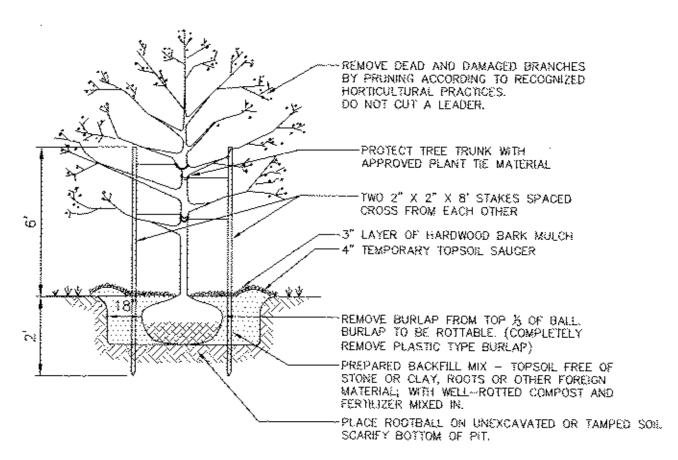
		SITE PLA	ANT SCHEDULE	
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE, NOTES
DECIDUOUS	TREES			
Ác	4	ACER CAMPESTRE	IHEDGE MAPLE	1-3/4"-2" CAL, B&B
Сc	4	CERCIS CANADENSIS	AMERICAN REDBUO	1-3/4"-2" CAL, B&B
Ĉv	3	CRATAEGUS VIRIDIS	WINTER KING HAWTHORNE	1-3/4"-2" CAL, B&B
Č£	3	CORNUS FLORIDA CLOUD 9'	CLOUD NINE FLOWERING DOGWOOD	1-3/4"-2" CAL, 8&B
Ns	2	NYSSA SYLVATICA	BLACK GUM	2.5" CAL MIN, B&B
Pa	4	PLATANUS X ACERIFOLIA	LONDON PLANE TREE	2.5" CAL MIN, B&B
SHRUBS	<u></u>			
łg	6	ILEX GLABRA "DENSA"	DENSE INKBERRY HOLLY	3'-3.5'. B&B
10	4	ILEX OPAÇA	AMERICAN HOLLY	5'-6', B&B
₽f	12	POTENTILLA FRUTICOSA	SHRUBBY CINQUEFOIL	18"-24" DIA, CONTAINER
Sji	15	SPIRAEA JAPONICA LITTLE PRINCESS	LITTLE PRINCESS SPIRAEA	18"-24" DIA, CONTAINER
WOODY GR	OUNDCOVE	RS	:	··· <del></del>
Dg	17	DEUTZIA GRACILUS 'NIKKO'	SLENDER DEUTZIA	3 GAL CONTAINER
Gl	20	GENISTA LYDIA	LYDIAN BROOM	3 GAL CONTAINER
Ra	36	RHUS AROMATICA GRO LOW	FRAGRANT SUMAC	3 GAL CONTAINER
SHRUBS (BI	ORETENTIO	N AREA)	:	
Aa	6	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	3 GAL CONTAINER
Po	6	PHYSOCARPUS OPULIFOLIUS	NINEBARK	3 GAL CONTAINER
PERENNIAL:	S (BIORETE	NTION AREA/RAIN GARDEN)		
Ana	15	ASTER NOVAE ANGLIAE	NEW ENGLAND ASTER	1 GAL CONTAINER
Af	10	ATHYRIUM FILIX FIMINA	LADY FERN	1 GAL CONTAINER
Hel	12	HELENIUM AUTUMNALE	COMMON SNEEZEWEED	1 GAL CONTAINER
Pst	6	PHLOX STOLONIFERA 'BLUE RIDGE'	BLUE RIDGE CREEPING PHLOX	1 GAL CONTAINER
Za	12	ZIZIA AUREA	GOLDEN ALEXANDERS	1 GAL CONTAINER



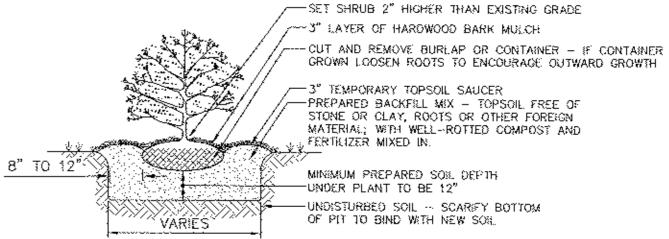
#### EVERGREEN TREE PLANTING DETAIL NOT TO SCALE



GROUNDCOVER/PERENNIAL PLANTING DETAIL NOT TO SCALE



DECIDUOUS TREE PLANTING DETAIL NOT TO SCALE



SHRUB PLANTING DETAIL NOT TO SCALE

#### GENERAL LANDSCAPING NOTES:

- 1. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION OR INSTALLATION,
- 2. ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO THE STANDARDS OF AMERICAN STANDARD FOR NURSERY STOCK, THE AMERICAN ASSOCIATION OF NURSERYMEN, LATEST EDITION.
- 3. ALL PLANTS AND WORKMANSHIP SHALL BE UNCONDITIONALLY GUARANTEED FOR 2 CALENDAR YEARS, CONTRACTOR SHALL REMOVE STAKING AND GUYING AT END OF GUARANTEE PERIOD.
- 4. ALL LANDSCAPE INSTALLATIONS SHALL BE MAINTAINED ON A REGULAR BASIS, AND SHALL NOT BE ALLOWED TO TAKE ON AN UNSIGHTLY APPEARANCE (EXCEPT FOR NATURAL AREAS WHICH SHALL BE ALLOWED TO GROW NATURALLY WITH A MINIMUM OF MAINTENANCE).
- 5. CONTRACTOR SHALL FIELD STAKE THE LOCATIONS OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 6. ALL LANDSCAPING PLANT MATERIALS TREES, SHRUBS, GROUNDCOVERS AND PERENNIALS SHALL BE PLANTED AS SHOWN IN DETAILS. BACKFILL MIX FOR PLANTING BEDS SHALL BE A MIX OF TOPSOIL, WELL-ROTTED COMPOST AND FERTILIZER. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL TZ" AND FILLED WITH CRUSHED STONE.
- 7. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THAT WHICH EXISTED IN THE NURSERY.
- 8. ALL PLANTS SHALL BE ORIENTED AT THEIR PROPOSED LOCATION TO PRESENT THEIR BEST SIDE.
- 9. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION, REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL ALL PLANTS.
- 10. ALL LAWN/CRASSED AREAS ARE TO BE TOPSORED TO A DEPTH OF 4" AND SEEDED AS PER THE PERMANENT SEEDING RATE, A MINIMUM OF 12" OF TOPSOIL IN ALL PLANTING AREAS, IF POOR SOILS OR ROCK ARE ENCOUNTERED IN AREAS OF CUT, PROPOSED TREES SHALL BE PLANTED IN A MINIMUM OF 18" TOPSOIL COMPOST MIX.
- 11. MULCH ALL PLANTING BEDS AND TREES WITH A 3 INCH MINIMUM DEPTH OF HARDWOOD BARK MULCH, NO MULCH SHALL BE PLACED AGAINST THE ROOT COLLAR OF THE PLANTINGS. ALL TREES PLANTED IN LAWN AREAS SHALL RECEIVE A 3' DIAMETER MULCH RING OR TO THE LIMST OF THE ADJACENT LAWN AREA.
- 12, SHRUB AND PERENNIAL PLANTINGS ARE MASS PLANTING BEDS AND SHAEL BE MULCHED CONTINUOUSLY.

### LANDSCAPING SEEDING SCHEDULE

### TEMPORARY SEEDING DISTURBED AREAS

SEASON	TYPE OF COVER & SPECIES OF MIXTURES	SEEDING RATES IN LBS. 1,000 SF	LBS. PER ACRE
SPRING/SUMMER/EARLY FALL	ANNUAL RYEGRASS	0.7	30
LATE FALL/EARLY WINTER	AROOSTOOK WINSER RYE	2.5	100

MULCH WITH HAY OR STRAW AT 2 TONS/ACRE OR 90 LBS. PER 1,000 SE

## PERMANENT LAWN SEEDING RATES

PERMANENT LAWN SEEDING SHALL CONSIST OF 30% CREEPING RED FESCUE, 50% KENTUCKY BLUE GRASS, 10% ANNUAL RYEGRASS, AND 10% PERENNIAL RYEGRASS - ERNST 5311 CONSERVATION MIX (ERNST-114) OR APPROVED EQUAL - AT A RATE OF 200 POUNDS PER ACRE OR 5 POUNDS PER 3,000 SQ. FT.

ENSURE SEED ACCEPTANCE AND SEED TO SOIL CONTACT.

- 1. TOPSOIL SURFACE, SHALL BE FINELY GRADED AND LOOSENED BY MECHANICAL RAKES TO
- 2. SEEDING AREA TO BE PREPARED WITH THE APPLICATION OF LIMESTONE AT THE RATE OF 800 LBS. PER 1,000 SY AND FERTILIZED WITH 10-20-20 AT THE RATE OF 140 LBS. PER 1,000 SY AFTER SEEDING, HAY MULCH IS TO BE APPLIED AT A RATE OF 21/2 TO 3 TONS PER ACRE.

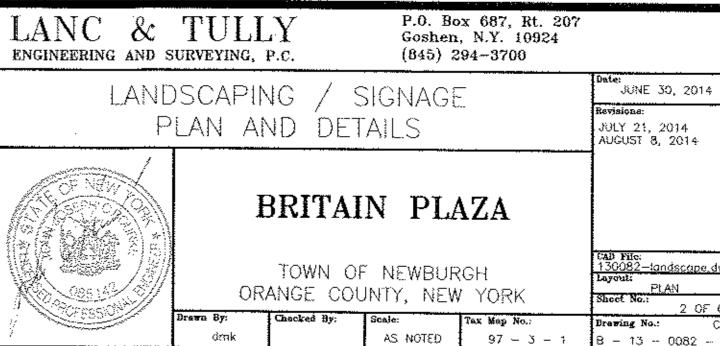
### PLANTING SCHEDULE

	SPRING PLANTING	EALL PLANTING
IREES AND SHRUBS: EVERGREEN DECIDUOUS	APRIL 1 JUNE 30	SEPT. 1 — OCT, 19 OCT, 1 — DEG. 1
SEEDING:	APRE 1 - MAY 31	SEPT. 1 - 00T. 15

# STORMWATER AREA AND PERIMETER SEEDING

- A. NORTHEASTERN U.S. ROADSIDE NATIVE MIX (ERNST 105 OR APPROVED EQUAL) SHALL BE BROADCAST OVER DISTURBED AREA AROUND STORMWATER PONDS AND OTHER AREAS AS NOTED ON THE PLANS AT A RATE OF 20 POUNDS PER ACRE OR 1/2 POUND PER 1,000 SQ. FT.
- B. RAIN GARDEN MIX (ERNMX-180 OR APPROVED EQUAL) SHALL BE BROADCAST ABOVE THE PERMANENT POOL ELEVATION IN STORMWATER PONDS AT A RATE OF 15 LB PER ACRE, OR 1/2 POUND PER 1,000 SQ. FT.

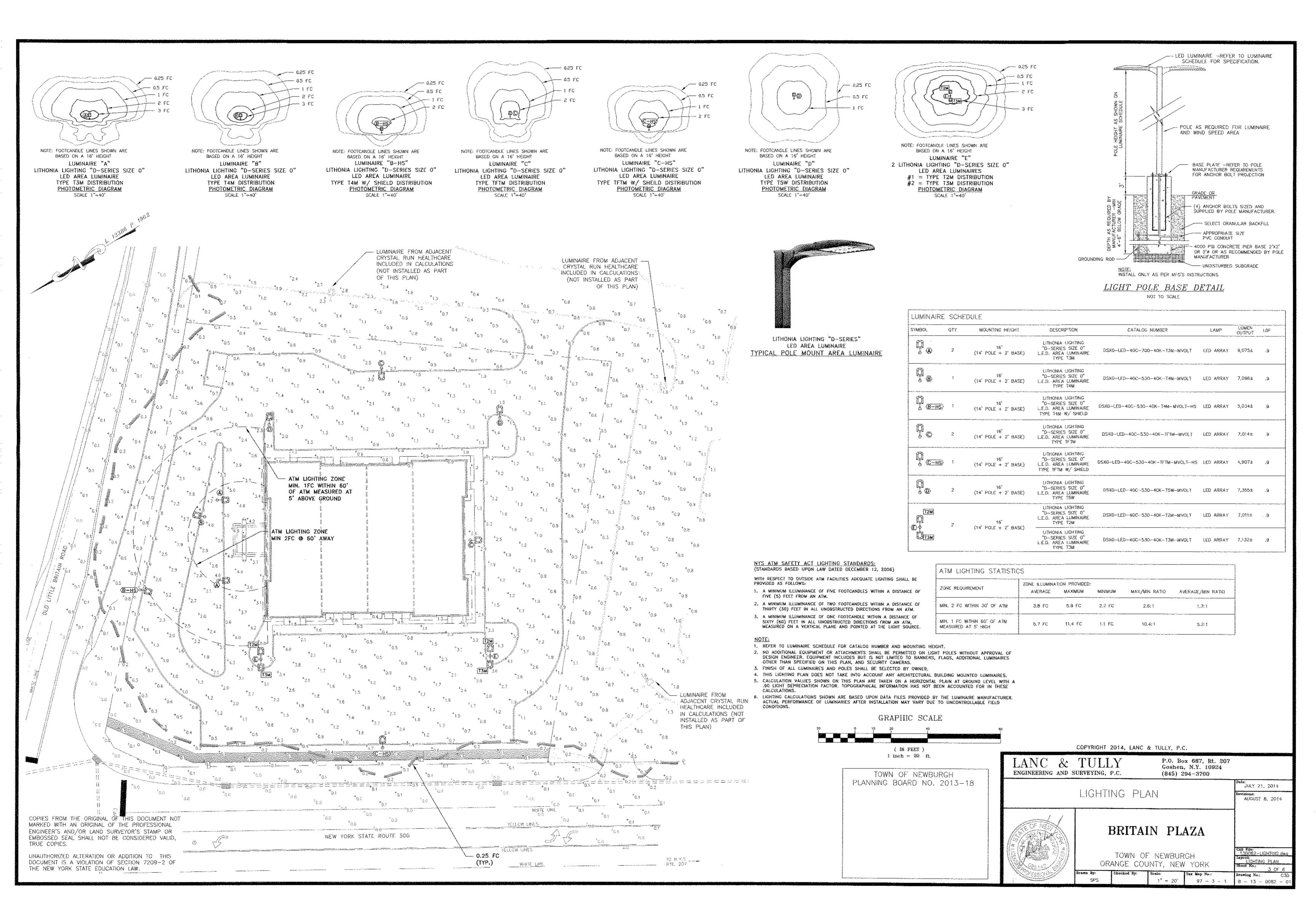
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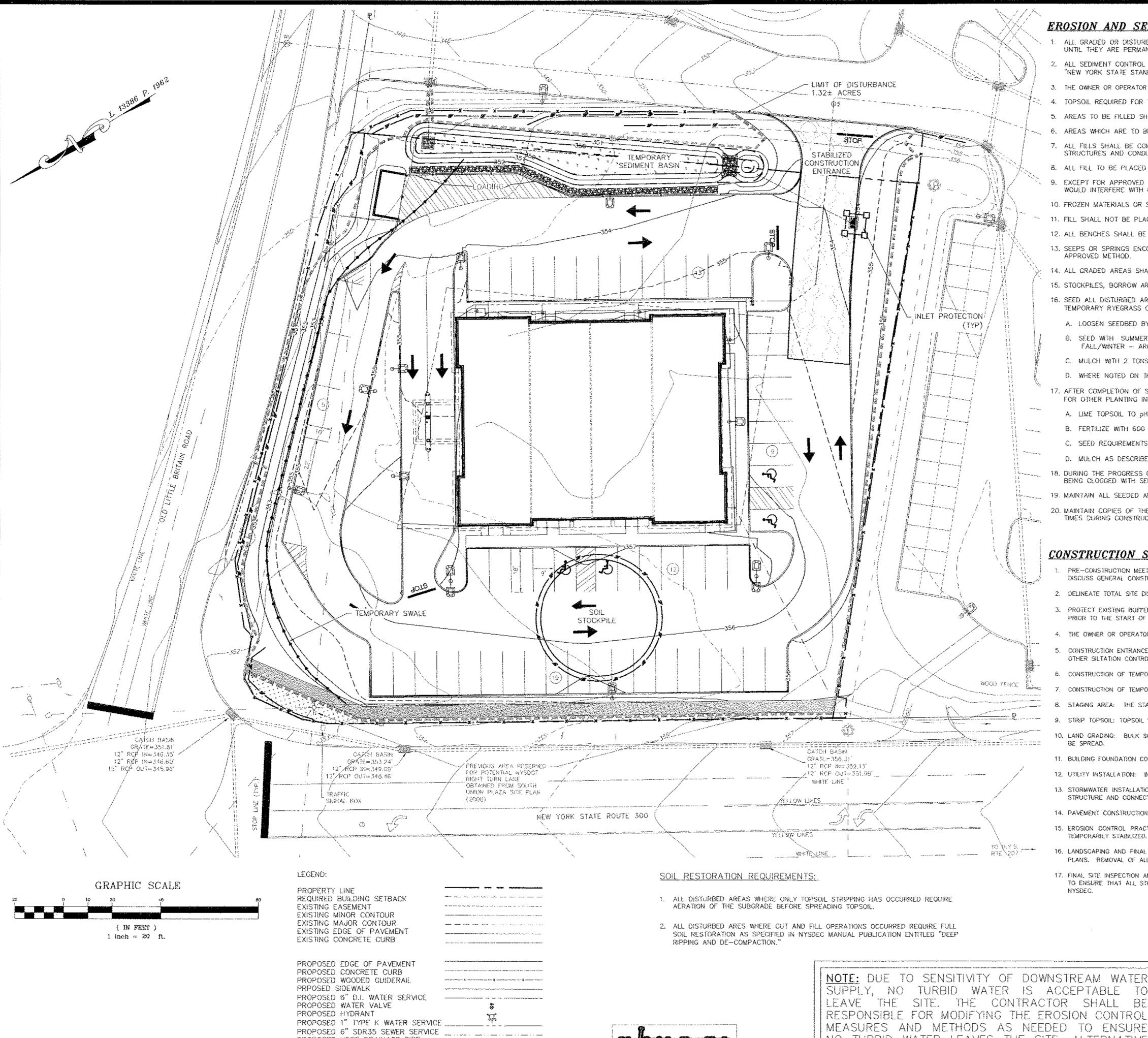




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PROPOSED HOPE DRAINAGE PIPE

PROPOSED TEMPORARY BASIN

PROPOSED INLET PROTECTION

PROPOSED TEMPORARY SWALE

PROPOSED CONSTRUCTION FENCE

PROPOSED SILT FENCE

LIMIT OF DISTURBANCE

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#### EROSION AND SEDIMENT CONTROL NOTES AND SPECIFICATIONS

- 1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- 2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."
- 3. THE OWNER OR OPERATOR SHALL HAVE A QUALIFIED INSPECTOR CONDUCT A SITE INSPECTION IN ACCORDANCE WITH PART IV.C. EVERY SEVEN (7) CALENDAR DAYS.
- 4. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- 5. AREAS TO BE FILED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- 6. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL
- 7. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SUPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS, FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 8. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS,
- 9. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 10. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 12. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- 13. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 14. ALL GRADED AREAS SHALL, BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
- 15. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.
- 16. SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 7 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 7 DAYS WITH TEMPORARY RYEGRASS COVER, AS FOLLOWS (METHOD OF SEEDING IS OPTIONAL):
- A. LOOSEN SEEDBED BY DISCING TO A 4" DEPTH.
- B. SEED WITH SUMMER PERENNIAL OR ANNUAL RYEGRASS AT 30 LBS PER ACRE FALL/WINTER - ARGOSTOOK WINTER RYE AT 100 LBS PER ACRE
- C. MULCH WITH 2 TONS PER ACRE OF BLOWN AND CHOPPED HAY.
- D. WHERE NOTED ON THE PLAN, AND ON SLOPES GREATER THAN OR EQUAL TO 3:1, PROVIDE SOIL STABILIZATION MATTING.
- 17. AFTER COMPLETION OF SITE CONSTRUCTION, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS FOLLOWS (SEE LANDSCAPE PLAN FOR OTHER PLANTING INFORMATION):
- A. LIME TOPSOIL TO pH 6.0.
- B. FERTILIZE WITH 600 LBS PER ACRE OF 5-10-10.
- C. SEED REQUIREMENTS SEE LANDSCAPING PLAN.
- D. MULCH AS DESCRIBED FOR TEMPORARY SEEDING (NOTE 150 ABOVE).
- 18. DURING THE PROGRESS OF CONSTRUCTION, AND ESPECIALLY AFTER RAIN EVENTS, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED WITH SEDIMENT, RE-STABILIZE ANY AREAS THAT MAY HAVE ERODED.
- 19. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A WABLE STABILIZED VEGETATIVE COVER.
- 20. MAINTAIN COPIES OF THE CONSTRUCTION LOGBOOK, STORMWATER POLLUTION PREVENTATION PLAN (SWPPP), NOTICE OF INTENT (NO:), PERMITS, AND SITE PLANS ON-SITE AT ALL TIMES DURING CONSTRUCTION.

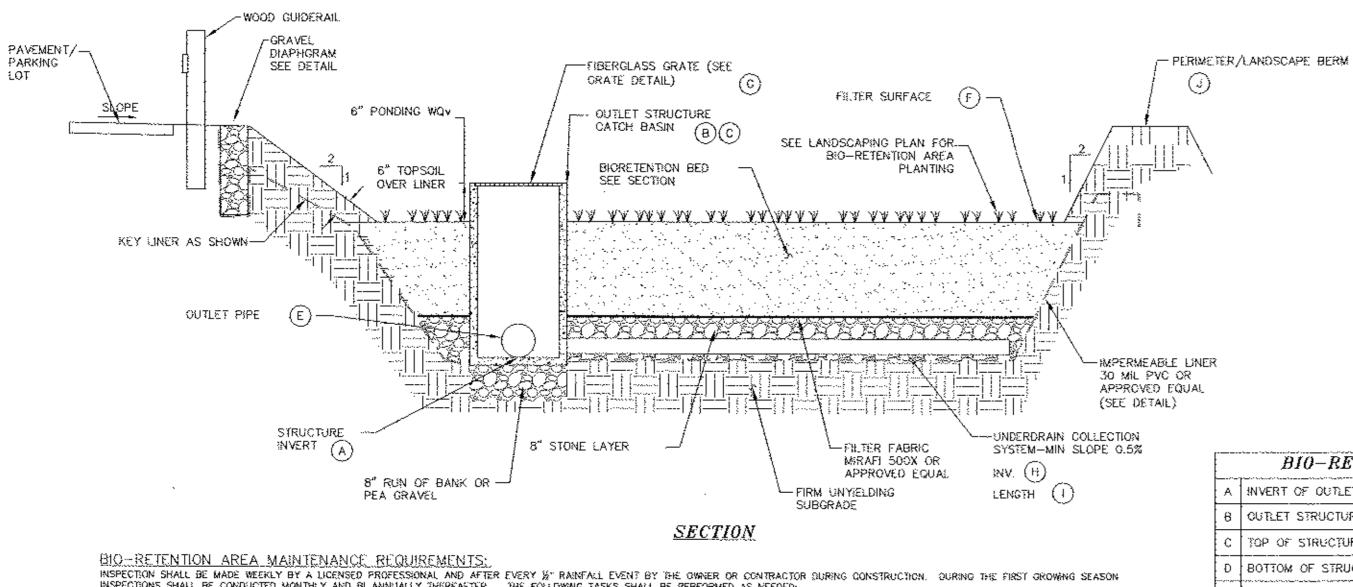
### CONSTRUCTION SEQUENCE

- PRE-CONSTRUCTION MEETING: BEFORE CONSTRUCTION ACTIVITIES AN EVALUATION OF THE SITE WILL BE PERFORMED WITH THE SITE CONTRACTOR, TOWN PERSONNEL AND SITE DESIGN ENGINEER TO DISCUSS GENERAL CONSTRUCTION PROCEDURES AND SEQUENCING.
- 2. DELINEATE TOTAL SITE DISTURBANCE LIMITS: PLACEMENT OF GRANGE CONSTRUCTION FENCING ALONG THE LIMIT OF DISTURBANCE THROUGHOUT THE SITE.
- 3. PROTECT EXISTING BUFFERS: PLACE EROSION CONTROL DEVICES (SILT FENCING, DIVERSION BERMS, ETC.) UPSTREAM OF ANY EXISTING WATERCOURSE WITHIN OR OUTSIDE OF CONSTRUCTION AREAS\_ PRIOR TO THE START OF ANY CONSTRUCTION.
- 4. THE OWNER OR OPERATOR SHALL HAVE A QUALIFIED INSPECTOR CONDUCT A SITE INSPECTION IN ACCORDANCE WITH PART IV.C. EVERY SEVEN (7) CALENDAR DAYS.
- 5. CONSTRUCTION ENTRANCES/SILTATION CONTROLS: A TEMPORARY CONSTRUCTION ENTRANCE WILL BE INSTALLED AT THE ENTRANCE TO THE SITE AS SHOWN ON THE SITE PLANS, IN ADDITION, ANY OTHER SILIATION CONTROL DEVICES, AS SHOWN ON THE EROSION CONTROL PLAN ARE TO BE INSTALLED ADJACENT TO THE TEMPORARY ENTRANCE AND STAGING AREA.
- 6. CONSTRUCTION OF TEMPORARY SEDMENT TRAP: CONSTRUCTION OF THE TEMPORARY SEDMENT TRAP PRIOR TO THE START OF ANY MAJOR EARTHWORK MOVEMENT OR SITE CONSTRUCTION.
- 7. CONSTRUCTION OF TEMPORARY DIVERSION SWALE: THE INSTALLATION OF TEMPORARY DIVERSION SWALE TO BE USED TO CONVEY STORMWATER TO THE SEDIMENT TRAP SHALL BE COMPLETED.
- 8. STAGING AREA: THE STAGING AREA WILL BE GRADED FOR STORAGE OF EQUIPMENT.
- 9. STRIP TOPSOIL: 10PSOIL WILL BE STRIPPED FROM THE ACTIVE WORK AREAS AND WILL BE STOCKPILED FOR LATER REUSE.
- 10. LAND GRADING: BULK SOIL GRADING WILL COMMENCE. AT THIS TIME, TEMPORARY STOCKPILE AREAS SHOULD BE UTILIZED. THE PROPOSED BUILDING PAD WILL BE GRADED AND STONE BASE WILL BE SPREAD.
- 11. BUILDING FOUNDATION CONSTRUCTION: UPON COMPLETION OF GRADING IN BUILDING FOOTPRINT AREA, BUILDING FOUNDATION CONSTRUCTION WELL COMMENCE.
- 12. UTILITY INSTALLATION: INSTALL WATER, SEWER, AND STORMWATER THROUGHOUT THE PROJECT. INLET PROTECTION WILL BE INSTALLED AT ALL STORMWATER CATCH BASINS.
- 13. STORMWATER INSTALLATION: INSTALL BIO-RETENTION AREA WHEN ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED. CONVERT SEDIMENT TRAP TO BIO-RETENTION AREA AND INSTALL OUTLET STRUCTURE AND CONNECTION TO EXISTING CATCH BASIN.
- 14. PAVEMENT CONSTRUCTION: CONSTRUCT PAVED PARKING AND ACCESS AREAS.
- 15. EROSION CONTROL PRACTICE REMOVAL: REMOVE ANY REMAINING EROSION CONTROL PRACTICES INCLUDING INLET PROTECTION AND TEMPORARY DIVERSIONS SWALES WHEN AREAS HAVE BEEN TEMPORARILY STABILIZED.
- 16. LANDSCAPING AND FINAL STABILIZATION: ALL OPEN AREAS TO BE STABILIZED WITH TOPSOIL AND SEEDED AS PER THE SEEDING SCHEDULE SPECIFIED ON THE EROSION AND SEDIMENT CONTROL PLANS. REMOVAL OF ALL TEMPORARY MEASURES, FLUSHING/CLEANING OF ALL CATCH BASINS AND PIPE, AND REMOVAL AND DISPOSAL OF ALL TRAPPED SEDIMENT ON SITE SHALL BE COMPLETED.
- 17. FINAL SITE INSPECTION AND CERTIFICATION: AT THE END OF CONSTRUCTION A SITE EVALUATION OF THE SITE WILL BE PERFORMED WITH SITE CONTRACTOR, TOWN PERSONNEL, AND SITE ENGINEER TO ENSURE THAT ALL STORMWATER FACILITIES WERE CONSTRUCTED AS PER THE SWPPP DESIGN AND THAT THE SITE HAS BEEN STABILIZED. A NOTICE OF TERMINATION WILL BE SUBMITTED TO THE

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P.O. Box 687, Rt. 207 Goshen, N.Y. 10924 ENGINEERING AND SURVEYING, P.C. (845) 294-3700 EROSION AND SEDIMENT CONTROL JUNE 39, 2014 PLAN JULY 21, 2014 AUGUST 8, 2014 BRITAIN PLAZA rosion control plantev TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK 4 08 6 - 13 - 0882 -

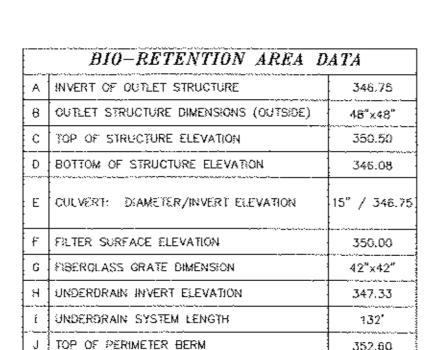
SUPPLY, NO TURBID WATER IS ACCEPTABLE TO LEAVE THE SITE. THE CONTRACTOR SHALL RESPONSIBLE FOR MODIFYING THE EROSION CONTROL MEASURES AND METHODS AS NEEDED TO ENSURE NO TURBID WATER LEAVES THE SITE. ALTERNATIVE METHODS INCLUDING BUT NOT LIMITED TO TEMPORARY HAY/MULCH, WATTLES, USE OF RUMBLE TRACK(S), OR FILTER BAGS MAY BE REQUIRED.



C TOP OF STRUCTURE ELEVATION D BOTTOM OF STRUCTURE ELEVATION INSPECTIONS SHALL BE CONDUCTED MONTHLY AND BLANNUALLY THEREAFTER. THE FOLLOWING TASKS SHALL BE PERFORMED AS MEEBED: REMOVAL OF ACCUMULATED SECRMENT AND CLEANING AND/OR RESTORATION OF THE FILTER BED AREAS WHENEVER ACCUMULATED SECRMENT REACHES A DEPTH OF 1 INCH. RESTORATION OF ANY DISTURBED PLANT MATERIAL AND ANY ERODED EMBANKMENTS. REPLACEMENT OF PROPOSED PLANTS SHALL OCCUR IF MORE THEN SOR OF THE COVERAGE OF THE FACILITY IS NOT

WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHES SUBSTANTIALLY (I.E., WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE. THAN 48 HOURS), THE TOP FEW MICHES OF DISCOLORED MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH MATERIAL. THE REMOVED SEDIMENTS SHALL BE DISPOSED IN AN ACCEPTABLE MANNER (I.E., LANDFIL) REFER TO LANDSCAPING PLANS FOR PLANTING REQUIREMENTS. IF FOR ANY REASON A CONFLICT OF PLANT MATERIAL OR PLANT MAINTENANCE SHOULD OCCUR, THE LANDSCAPE PLANS ARE TO TAKE

THE PLANTING SOIL SHOULD BE A SANDY LOAM, LOAMY SAND, LOAM (USDA), OR A LOAM/SAND MIX (SHOULD CONTAIN A MINIMUM 35 TO 60% SAND, BY VOLUME). THE CLAY CONTENT FOR THESE SOILS SHOULD BY LESS THAN 25% BY VOLUME. SOILS SHOULD FALL WITHIN THE SM, OR ML CLASSIFICATIONS OF THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5"/HR) IS REQUIRED (A CONSERVATIVE VALUE OF 0.5 FEET PER DAY IS USED FOR DESIGN). THE SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER, BRUSH OR SEEDS FROM NOXIOUS WEEDS, PLACEMENT OF THE PLANTING SCIL, SHOULD BE IN LIFTS OF 12 TO 18", LOOSELY COMPACTED (YAMPED LIGHTLY WITH A DOZER OR BACKHOE BUCKET).



2' PLANTING SOIL

8" CLEAN CRUSHED

IMPERMEABLE LINER

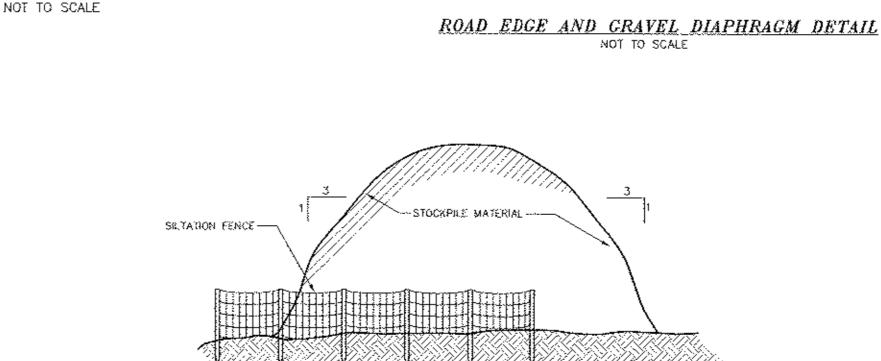
APPROVED EQUAL

30 MIL PVC OR

(SEE DETAIL)

352.60

SYONE (¾")



12"-14" CRUSHED STONE

SEE LANDSCAPING PLAN

-FILTER FABRIC

- 6" PERFORATED PVC

UNDERBRAIN PIPE

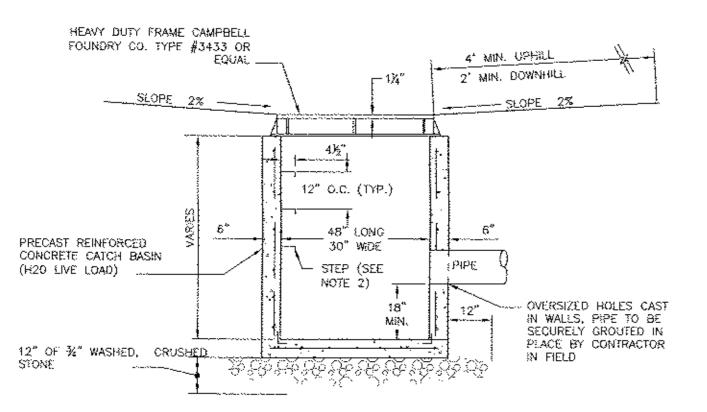
MSRAFI 500X OR APPROVED EQUAL

AA AAAAAAAAAAAAAAAAA

BIORETENTION SECTION

SEE DETAILS FOR INSTALLATION OF SELTATION FENCE

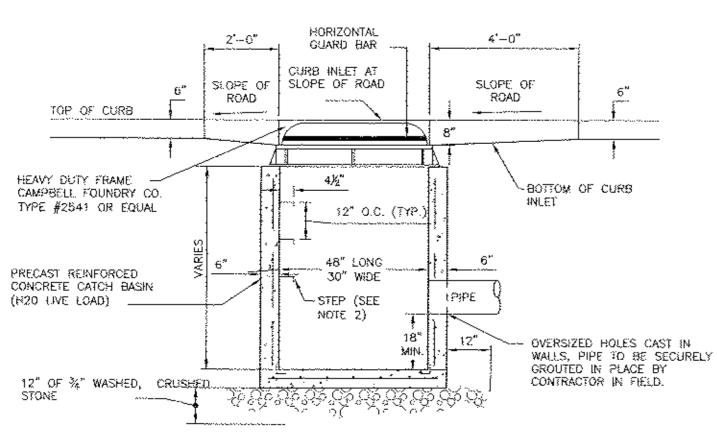
TYPICAL STOCKPILE DETAIL NOT TO SCALE



REMOVAL OF ACCUMULATED DEBRIS WITHIN THE FILTER SED AREAS AND AT ALL INLET AND OUTFALL STRUCTURES.

ANNUAL MOWING (EARLY WINTER) OF THE BASINS. TRIMMING AND PRUNING OF BUSHES, REMOVAL OF ANY FALLEN TREES OR LIMBS.

FLAT TOP CATCH BASIN



### CURB TOP CATCH BASIN

1. CONCRETE STRENGTH: 4000 P.S.I. @ 28 DAYS.

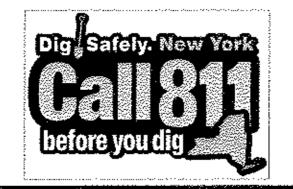
2. STEPS TO BE COPOLYMER POLYPROPYLENS PLASTIC WITH 1/2" GRADE 60 STEEL REINFORCEMENT 3. THE ENDS OF ALL PIPES SHALL BE OUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH BASIN.

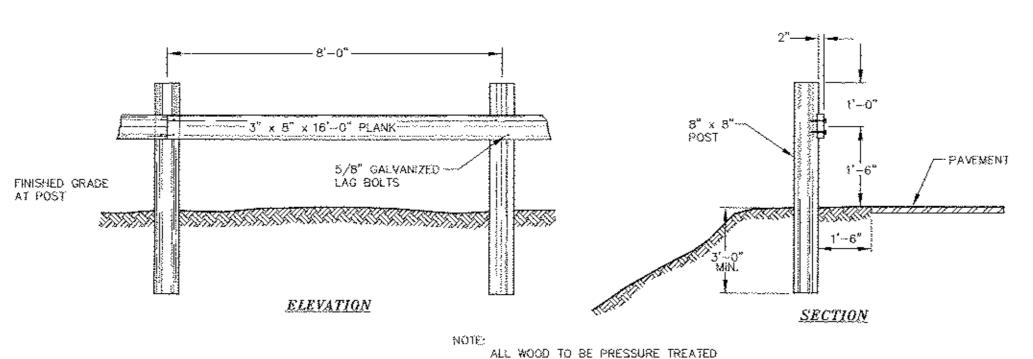
CATCH BASIN DETAILS

NOT TO SCALE

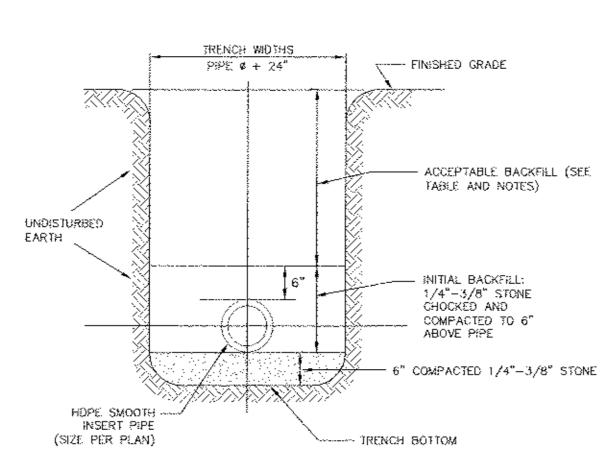
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 $\underset{\text{NOT TO SCALE}}{WOOD} \;\; \underset{\text{NOT TO SCALE}}{\textit{GUIDE'}} \;\; \underset{\text{RAIL}}{\textit{RAIL}}$ 



BIO-RETENTION AREA DETAIL NOT TO SCALE

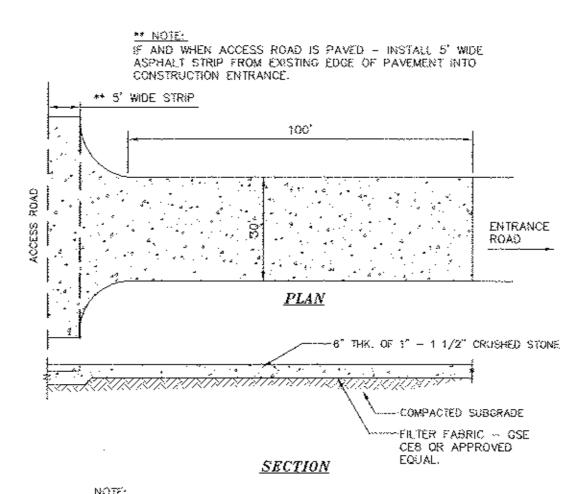
ACCEPTABLE BACKFILL MATERIAL & COMPACTION REQUIREMENTS				
	SOIL CLASSIFICATION			
DESCRIPTION	•	ASTM D2487	AASHTO M43	MINIMUM STANDARD PROCTOR DENSITY %
GRADED OR CRUSHED, CRUSHED STONE, GRAVEL	CLASS I		5 56	5UMPED
SAND, GRAVELS AND GRAVEL/SAND MIXTURES; LITTLE OR NO FINES	CLASS II	GW GP SW S₽	57 6	86%
SILTY OR CLAYEY GRAVELS, GRAVEL/SAND/SILT OR GRAVEL AND CLAY MEXTURES: SELTY OR CLAYEY SANDS, SAND/CLAY OR SAND/SILT MEXTURES	CLASS (8)	GM GC SM SC	GRAVEL AND SAND (<10% FINES)	90%

NOTE: MORGANIC SILTS, CLAYS, AND OTHER CLASS IV MATERIAL SHALL NOT PERMITTED.

1. BACKFRE TO BE COMPACTED IN 8" LIFTS AND SHALL CONTAIN NO STONES OVER 6" (N. ANY DIMENSION. 2. BACKFEL UNDER ALL PAVED AREAS SHALL BE FULL DEPTH RUN OF BANK, ITEM #4 OR

APPROVED EQUAL

STORM SEWER TRENCH CROSS SECTION NOT TO SCALE



NOTE:
ENTRANCE SHALL BE MAINTAINED AS CONDITIONS DEMAND TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.

#### STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHENEVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 6" DEPTH OF 1"-1 1/2" CRUSHED STONE, WILL BE AT LEAST 30' X 100' AND SHOULD BE PLACED ON COMPACTED SUB-GRADE AND SHALL DE MAINTAINED. ALL DRIVEWAYS MUST BE STABLIZED WITH 1" - 11/2" CRUSHED STONE OR SUB-BASE PRIOR TO INDIVIDUAL HOME CONSTRUCTION.

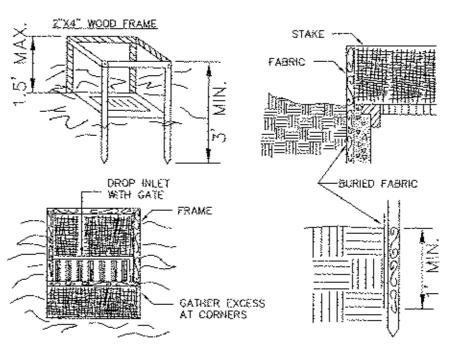
PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A CRUSHED STONE OR HAYBALE FILTER (FILTER DETAILS APPEAR ON PLAN).

BECOME OPERATIONAL ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES MUST BE DETAILED ON THE PLAN.

ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE DISCHARGE POINTS

\* ALTERNATIVE / ADDITIONAL USE OF RUMBLE TRACK IS PERMISSIBLE IF REQUIRED, MINIMUM 5' WICE ASPHALT BINDER STRIP ALONG MUNICIPAL ROAD MUST BE MAINTAINED.



PAVED AREA

GRASS SIRIP

NOTE: TO BE UTILIZED IN AREA WHERE SHEET FLOW TO BIORETENTION AREA IS PROPOSED.

SLOPE

### CONSTRUCTION SPECIFICATIONS

- 1. FILTER FASRIC SHALL HAVE AN EGS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- 2. OUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS, IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- 3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
- 4. SPACE STAKES EVENLY AROUND INJET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP, SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- 5. FABRIC SHALL BE EMBEDDED ! FOOT MINIMUM BELOW GROUND AND BACKFILLED, IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- 6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA : ACRE

FILTER FABRIC DROP INLET PROTECTION

NOT TO SCALE



# WOVEN WARE FENCE (MIN. 14 1/2 GAUGE W/ MAX, 6" MESH SPACING) INSTALL MESH ON DOWNSLOPE SIDE OF FILTER CLOTH ~36" MIN. SENGTH FENCE POSTS DRIVEN MIN. 16" -30′ MAX. Q.C REMITCHES DITHE NEIGHT OF FILTER PERSPECTIVE VIEW 36° MIN. FENCE POST -

#### COMPACTED SOIL-

SECTION VIEW

# CONSTRUCTION SPECIFICATIONS

EMBED FILTER CLOSH

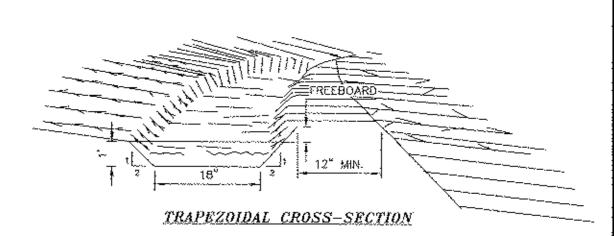
A MIN, OF 6" IN GROUND.

FILTER CLOTH -

FLOW

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO PENCE POSTS WITH WIRE TIES OR STAPLES, POSTS SHALL BE SIEEL EITHER "T" OR "U" TYPE OR HARDWOOD,
- 2. FRITER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WHE FENCE WITH THES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SMALL BE
- WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING. 3. WHEN TWO SECTIONS OF FRITER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X,
- MERAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT. 4. PREFABRICATED UNITS SHALL BE GEGFAB, ENVIROFENCE, OR APPROVED EQUIVALENT
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

#### SILTATION FENCE NOT TO SCALE



#### CONSTRUCTION SPECIFICATIONS

- 1. 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 DEVERSION.
- 2. THE DIVERSION 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 IMPEDE NORMAL FLOW.
- 3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE DIVERSION.
- 4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE STOCKPILED FOR RESTORATION OF THE AREA SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
- 5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES. A FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER. SEC., THE DEVERSION SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSION MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY

TEMPORARY DIVERSION SWALE

NOT TO SCALE

DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.

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