

# CIVIL ENGINEERING DRAWINGS

FOR:  
PROPOSED RETAIL COMPLEX  
VENEZIA SQUARE, LLC

c/o

VENEZIA CORP.

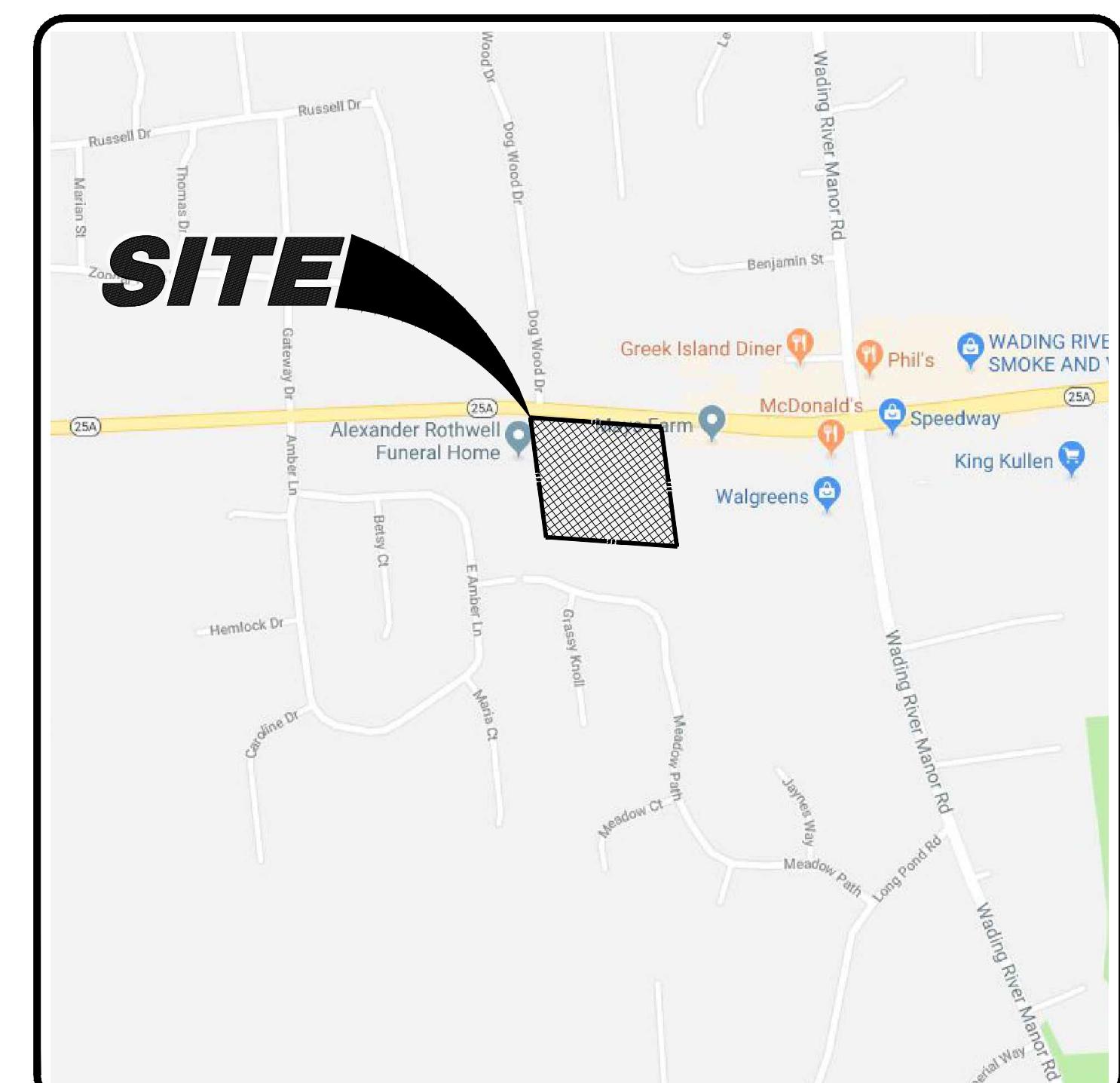
LOCATION OF SITE:

PORT JEFFERSON-RIVERHEAD RD.  
(NYS ROUTE 25A)  
WADING RIVER  
TOWN OF RIVERHEAD  
SUFFOLK COUNTY, NY 11792  
TAX MAP 3: 600-73-1-1.4, 1.16-1.19



SITE AERIAL MAP

SCALE: N.T.S.  
SOURCE: NYS GIS Clearing House  
NYSDOT High Resolution  
Imagery 2016



SITE LOCATION MAP

SCALE: 1"=600'  
Google Image  
Copyright Map Data ©2018 Google

## REFERENCES

- ◆ BOUNDARY & TOPOGRAPHIC SURVEY:  
CONTROL POINT ASSOCIATES, INC.  
35 TECHNOLOGY DRIVE  
WARREN, NJ 07059  
DATED: 1/18/16 (REVISION 2)
- ◆ GEOTECHNICAL INVESTIGATION REPORT:  
McDONALD GEOSCIENCE  
BOX 1000  
SOUTHOLD, NY 11971  
DATED: 10/02/08
- ◆ GOVERNING AGENCIES
- ◆ TOWN OF RIVERHEAD:  
PLANNING DEPARTMENT  
201 HOWELL AVENUE  
RIVERHEAD, NY 11901  
(631) 727-3200
- ◆ SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES:  
OFFICE OF WASTEWATER MANAGEMENT  
360 YAPHANK AVENUE, SUITE 2C  
YAPHANK, NY 11980  
(631) 852-5700
- ◆ FIRE MARSHAL:  
RIVERHEAD FIRE MARSHAL  
201 HOWELL AVENUE  
RIVERHEAD, NY 11901  
(631) 727-3200
- ◆ TELEPHONE:  
VERIZON  
499-43 SUNRISE HIGHWAY  
PATCHOGUE, NY 11772  
SUFFOLK COUNTY DIVISION  
(800) 880-1077
- ◆ NEW YORK STATE DEPT. OF TRANSPORTATION:  
250 VETERANS MEMORIAL HIGHWAY  
HAUPPAUGE, NY 11788  
(631) 952-6632

## UTILITIES

- ◆ WATER:  
RIVERHEAD WATER DISTRICT  
1035 PULASKI STREET  
RIVERHEAD, NY 11901  
(631) 727-3205
- ◆ GAS:  
NATIONAL GRID  
175 EAST OLD COUNTRY ROAD  
HICKSVILLE, NY 11801  
(631) 755-6200
- ◆ ELECTRIC:  
PSEG LONG ISLAND  
117 DOCTOR'S PATH  
RIVERHEAD, NY 11901  
(631) 755-6000
- ◆ TELEPHONE:  
VERIZON  
499-43 SUNRISE HIGHWAY  
PATCHOGUE, NY 11772  
SUFFOLK COUNTY DIVISION  
(800) 880-1077

## R.O.W. JURISDICTIONS

- ◆ NEW YORK STATE DEPT. OF TRANSPORTATION:  
250 VETERANS MEMORIAL HIGHWAY  
HAUPPAUGE, NY 11788  
(631) 952-6632

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
TRANSPORTATION SERVICES

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(NYS EDUCATION LAW SECTION 7209-2)

APPROVALS

## LIST OF DRAWINGS

REVISIONS	
No	Date
1	12/30/09 REVISED AS PER SCHS COMMENTS
2	11/18/15 REV. PER TOWN PLANNING DEPARTMENT COMMENTS
3	9/20/17 REV. PER DISTURBED AREA
4	3/6/18 REV. LAYOUT & NYS DOT COMMENTS
5	11/18/18 REV. PER TOWN PLANNING DEPARTMENT
6	1/29/19 TOWN OF RIVERHEAD SUBMISSION
7	2/13/20 REV. SITE COVERAGE AREAS
8	4/6/20 REV. SITE COVERAGE AREAS
9	8/1/20 REVISED LAYOUT PER CLIENT COMMENTS

COVER SHEET	C-1 OF 15
GENERAL NOTES	C-2 OF 15
SITE PLAN	C-3 OF 15
GRADING & DRAINAGE PLAN	C-4 OF 15
PHASE I SWPPP PLAN	C-5 OF 15
PHASE II SWPPP PLAN	C-6 OF 15
SWPPP PLAN DETAILS	C-7 OF 15
UTILITY & SANITARY PLAN	C-8 OF 15
SANITARY DETAILS & COMPUTATIONS	C-9 OF 15
LANDSCAPE PLAN	C-10 OF 15
LANDSCAPE NOTES	C-11 OF 15
LIGHTING PLAN	C-12 OF 15
SITE DETAILS	C-13 OF 15
NYSDOT DETAILS	C-14 OF 15
WORK ZONE TRAFFIC CONTROL PLAN	C-15 OF 15
BOUNDARY & TOPOGRAPHIC SURVEY (BY OTHERS)	1 OF 1

**BOHLER**  
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275 BROADHOLLOW ROAD, SUITE 100  
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Phone: (631) 738-1200  
Fax: (631) 285-6464  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

**DALE E. KOCH**  
PROFESSIONAL ENGINEER:  
NEW YORK LICENSE NO. 089418

DATE: 09/18/08 DRAWN BY: MD  
SCALE: AS SHOWN CHECKED BY: JPC  
CAD ID. NO.: N08029-CS-9D PROJECT NO.: N08029

NOT FOR CONSTRUCTION  
NYSDOT CASE #: N/A  
HEALTH DEP. REF. #: N/A

CLIENT/PROJECT: VENEZIA  
SQUARE, LLC c/o  
VENEZIA CORP.

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(NYS ROUTE 25A)  
WADING RIVER  
TOWN OF RIVERHEAD  
SUFFOLK COUNTY, NY 11792  
TAX MAP #: 600-73-1-1.4, 1.16-1.19

TITLE: COVER  
SHEET NO. REV. 9

SUBMISSION SET  
C-1  
OF 15

PLANNING BOARD CERTIFICATION	
THIS IS TO CERTIFY THAT THIS SITE PLAN HAS BEEN APPROVED BY THE PLANNING BOARD OF THE TOWN OF RIVERHEAD BY PLANNING BOARD RESOLUTION NUMBER _____ DATED _____	
SIGNATURE OF PLANNING BOARD CHAIRPERSON _____	
DATE OF SIGNATURE _____	



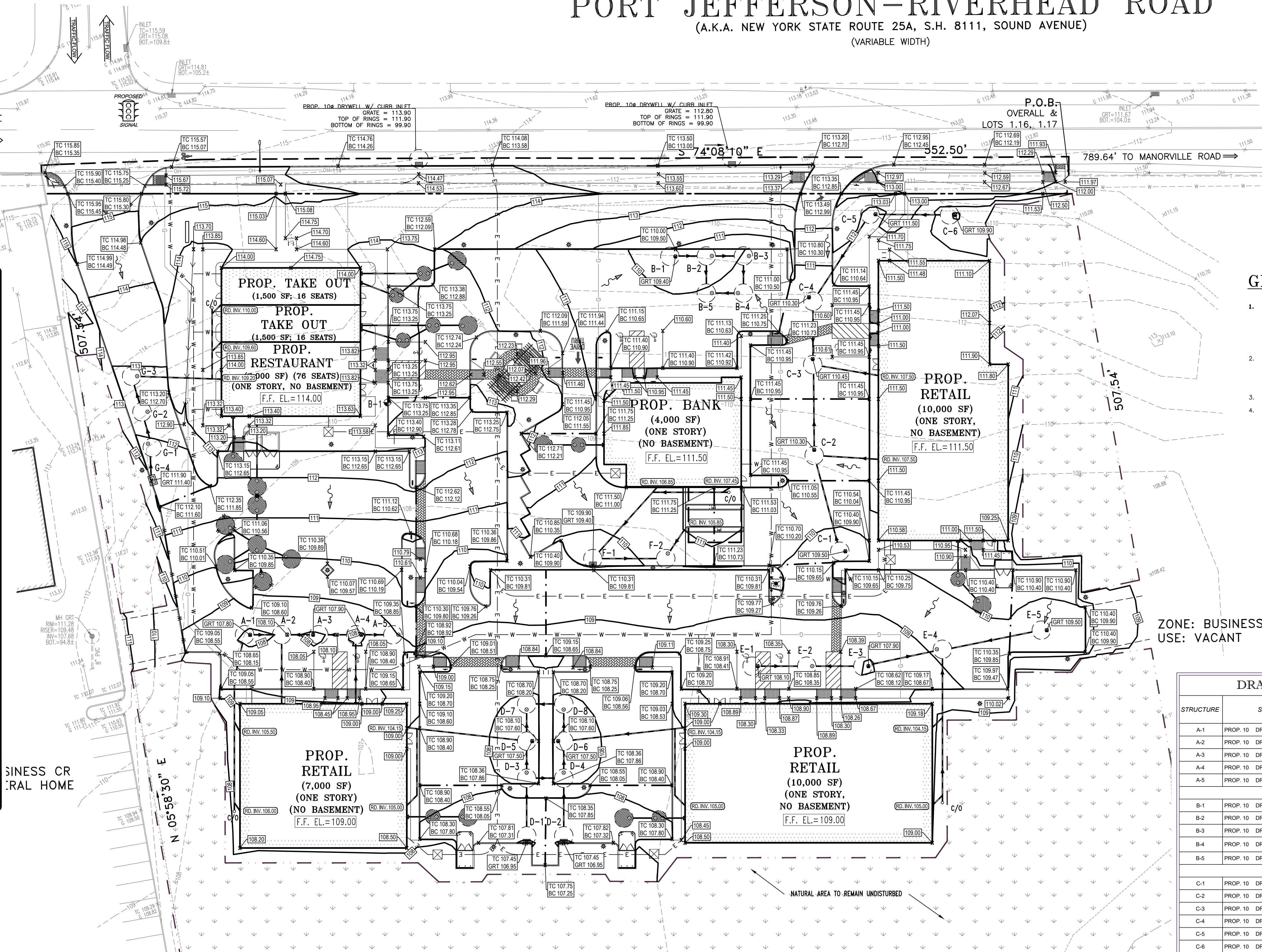


# PORT JEFFERSON-RIVERHEAD ROAD

(A.K.A. NEW YORK STATE ROUTE 25A, S.H. 8111, SOUND AVENUE)  
(VARIABLE WIDTH)



LEGEND	
EXISTING	PROPOSED
BUILDING	PROPERTY LINE
ADJACENT PROPERTY LINE	SAW CUT LINE
PROPOSED NYSDOT DEDICATION	CONCRETE CURB
SIGN	UTILITY POLE (RELOCATED)
STREET LIGHT (RELOCATED)	AREA LIGHT *
INLET/CURB INLET	MANHOLE COVER
CLEAN OUT C/0	STORM PIPING
STORM PIPING	SAINTARY PIPING
10' DRYWELL	8' DRYWELL
8' GREASE TRAP/SEPTIC TANK	WATER SERVICE
FIRE HYDRANT	GAS SERVICE
W W W	E E
ELECTRIC SERVICE	TELEPHONE SERVICE
T	T
TRANSFORMER	
TC 115.61 G 115.36 TOP OF CURB BOTTOM OF CURB	TC 108.40 TC 107.90 SPOT ELEVATION 112.05
112 CONTOUR	112
RIDGE LINE	
SWALE LINE	
BORING LOCATION B-1	





LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	PROPOSED NYSDOT DEDICATION
TEMPORARY INLET PROTECTION	TEMP. DRAINAGE/ INfiltration SWALE
SILT FENCE	CONTOUR
TREE PROTECTION FENCE	PROP. NYSDOT DEDICATION
TEMP. DRAINAGE/ INfiltration SWALE	PROP. STABILIZED CONSTRUCTION ENTRANCE/ EXIT
CONTOUR	STABILIZED CONSTRUCTION ENTRANCE/ EXIT
LIMIT OF WORK LINE	PROP. STABILIZED CONSTRUCTION ENTRANCE/ EXIT
STABILIZED CONSTRUCTION ENTRANCE/ EXIT	STABILIZED CONSTRUCTION ENTRANCE/ EXIT
STONE CHECK DAM	TEMPORARY SEDIMENT BASIN
AREA OF NON-DISTURBANCE	
SURFACE FLOW DIRECTION ARROW	
TEMPORARY SEDIMENT BASIN	

# PORT JEFFERSON-RIVERHEAD ROAD

(A.K.A. NEW YORK STATE ROUTE 25A, S.H. 8111, SOUND AVENUE)

(VARIABLE WIDTH)

## BMP IMPLEMENTATION AND MAINTENANCE SEQUENCE

MAINTENANCE FREQUENCY	
PHASE I	
1. EVALUATE THE SITE	WEEKLY OR AS REQUIRED
2. INSTALL PERIMETER EROSION CONTROL PRACTICES	WEEKLY OR AS REQUIRED
3. PREPARE THE SITE FOR REMOVALS	AS REQUIRED
4. PREPARE THE SITE FOR CONSTRUCTION	AS REQUIRED
PHASE II	
5. BUILD THE STRUCTURE(S) AND INSTALL THE UTILITIES	AS REQUIRED
6. MAINTAIN EROSION CONTROL PRACTICES	AS REQUIRED
7. REVEGETATE BUILDING SITE	ANNUALLY OR AS REQUIRED
8. REMOVE TEMPORARY EROSION CONTROL MEASURES	AS REQUIRED
9. INSPECT REGULARLY & AS REQUIRED BY APPLICABLE REGULATIONS	ANNUALLY OR AS REQUIRED
INSPECTIONS	AS REQUIRED
- PRECONSTRUCTION	
- 7 DAY	
- POST RAINFALL	
- POST CONSTRUCTION	
NOTES:	
1. BEST MANAGEMENT PRACTICE ACTIVITIES IDENTIFIED FOR EACH PHASE DESCRIPTION SHALL BE IMPLEMENTED AT THE START OF EACH PHASE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION IS ACHIEVED.	
2. IMPLEMENTATION OF BMP ACTIVITIES SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS REGARDING OTHER CONSTRUCTION ACTIVITIES AND TIMEFRAMES.	

## MAINTENANCE OF PERMANENT BMP'S

SYSTEM	MAINTENANCE REQUIREMENTS	FREQUENCY
CATCH BASIN	INSPECT AND CLEAN FOR SOLID DEBRIS AS REQUIRED	ANNUALLY
DRYWELL	INSPECT AND CLEAN FOR SOLID DEBRIS AS REQUIRED	ANNUALLY

## STORAGE CALCULATION

1. STORAGE REQUIRED VIA SEDIMENT TRAP = 3,600 CF/ACRE
2. TOTAL STORAGE REQUIRED = 3,600 CF/ACRE X 4.35 ACRE = 15,660 CF

3. VOLUME OF PROPOSED SEDIMENT BASINS:

$$20' \times 30' \times 5' \text{ FT BASIN (TYP. 31)} \\ \text{SURFACE DIMENSIONS: } 50' \text{ FT (A) } \times 30' \text{ FT (B)} \\ \text{FLOOR DIMENSIONS: } 50' \text{ FT (C) } \times 10' \text{ FT (D)} \\ \text{BASIN VOLUME: } 1/3 \times H \times (A \times B + (A \times C \times D) + C \times D) \\ \text{BASIN VOLUME: } 1/3 \times 5' \times 70' \times 30' + (70' \times 30' \times 50' \times 10') + 50' \times 10' = 5080.9 \text{ CF}$$

TOTAL SEDIMENT BASIN VOLUME PROVIDED = 18,123 CF (> 15,660 CF REQUIRED VOLUME)

SCALE: 1 inch = 30 ft. DO NOT SCALE



## SOIL EROSION & SEDIMENT CONTROL PLAN NOTES

1. THE GENERAL NOTES SHEET SHALL BE PART OF THIS ENTIRE DOCUMENT PACKAGE AND IS PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REVIEW AND READ HIGHLIGHTS TO BE REFERRED TO BY THE CONTRACTOR. THE CONTRACTOR IS TO FAMILIARIZE HIMSELF AND ACKNOWLEDGES HIS FAMILIARITY WITH ALL THE NOTES ON THE GENERAL NOTES SHEET AS ANY AND ALL DRAWING SHEET SPECIFIC NOTES BELOW.

2. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK SHALL BE DONE AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.

3. INSTALL FILTER FABRIC FENCING ON THE DOWNSHILL SIDE OF TEMPORARY FILM STOCKPILES.

4. EROSION CONTROL MEASURES SHALL CONFORM TO THE STATE OF NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED OR AS DIRECTED BY ENGINEER.

5. INSTALLATION OF EROSION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6. INSPECT EROSION CONTROL MEASURES AFTER EACH RAINFALL EVENT, BUT NO LESS THAN WEEKLY. CLEAR ANY SILT GREATER THAN 6" BEHIND THE FILTER FABRIC BARRIERS. EXCAVATE AND REMOVE ANY SILT FROM DROPPED INLET PROTECTION.

7. TEMPORARY SEDD AND MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE FROTTED GRADE AND VEGETATION. THESE AREAS SHALL BE WATERED DAILY AFTER THE GROWING SEASON. THEY SHALL BE STABILIZED WITH GEOTEXTILE FABRIC AND MAINTAINED ACCORDING TO BEST MANAGEMENT PRACTICES.

8. INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE ENGINEER TO PREVENT THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.

9. CONTINUE INSPECTION AND REPAIR OF EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF VEGETATION.

10. REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS UPON ESTABLISHMENT OF PERMANENT VEGETATION COVER OR OTHER SPECIFIED METHOD OF STABILIZATION.

11. THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 4.09 ACRES.

12. THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:

- STABILIZED CONSTRUCTION ENTRANCE/ EXIT - A TEMPORARY GRASS STABILIZED CONSTRUCTION ENTRANCE/ EXIT IS TO BE INSTALLED AT THE NORTHWEST CORNER OF THE SITE; THIS AREA SHALL BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.

- SEDIMENT FENCE - INSTALL SILT FENCE(S) AROUND ALL OF THE DOWNSHILL PERIMETERS OF THE SITE AND SOIL STOCKPILES.

- INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT.

- DUST CONTROL - STOCKPILES OF SOIL SHOULD BE LIMITED TO 15' MAXIMUM HEIGHT AND REMOVED OR UTILIZED FOR SITE CONSTRUCTION AS SOON AS PRACTICABLE. SHOULD EXCESSIVE DUST BE GENERATED, DUST SHOULD BE WATERED DOWN TO BARE SOIL SURFACES TO MINIMIZE BLOWING DUST.

13. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES SHALL BE DEEMED INCLUDED IN THE BID PRICE FOR THE SITE WORK.

14. REFER TO LANDSCAPE PLAN FOR TREE PROTECTION FENCE LOCATIONS AND DETAILS.

15. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL UNLISTABLE MATERIAL AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.

16. THESE PLANS ARE BASED ON INFORMATION AVAILABLE TO OUR OFFICE AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS AND NOTIFY OUR OFFICE IF ACTUAL SITE CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN, OR IF PROPOSED WORK WOULD BE IMPACTED BY ANY OTHER SITE FEATURES.

17. THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL STRUCTURES. ADDITIONAL FACILITIES OR MEASURES SHALL BE INSTALLED WHERE NECESSARY TO COMPLY WITH APPLICABLE CODES AND STANDARDS GOING TO PREVENT THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.

18. EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR.

19. REFER TO GRADING AND LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.

20. THE CONTRACTOR SHALL CLEAN EXISTING & PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPE AT END OF PROJECT.

21. WITHIN WRITTEN APPROVAL OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION, UNSTABILIZED AREAS OF DISBURSEMENT AREAS SHALL NOT BE MORE THAN 5 ACRES AT ANY TIME.

22. CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION BEYOND THE LIMITS OF DISTURBED AREA.

23. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE SITE SPECIFIC SWPPP REPORT/BINDER. CONTRACTOR SHALL COMPLY FULLY WITH NYSDOT DEPARTMENT OF ENVIRONMENTAL CONSERVATION GP-02-01 PERMIT.

24. SOIL EROSION CONTROL MEASURES SHALL BE ADJUSTED / RELOCATED BY CONTRACTOR AS IDENTIFIED DURING SITE INSPECTIONS IN ORDER TO MAINTAIN EFFECTIVENESS OF CONTROL MEASURES TO ENSURE COMPLIANCE WITH SWPPP.

25. CONTRACTOR SHALL LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS SO AS TO MINIMIZE EXPOSURE TO STORMWATER. CONSTRUCTION WASTE SHALL BE IMMEDIATELY PLACED IN ON-SITE STORAGE CONTAINERS UNTIL READY FOR OFF-SITE DISPOSAL. CONTRACTOR SHALL MAINTAIN CONSTRUCTION WASTE MATERIALS, EQUIPMENT AND MAKE AVAILABLE ON-SITE FOR USE BY CONTRACTOR'S EMPLOYEES IN THE APPLICATION OF SPILL PREVENTION & RESPONSE PROCEDURES.

26. CONTRACTOR SHALL IDENTIFY LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED ON THE PLAN.

## EROSION CONTROL CONSTRUCTION NOTES

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AT THE ENTRANCE/ EXIT TO THE PROPOSED SITE AS INDICATED ON THE PLANS.

2. INSTALL SILT FENCING AT LIMITS OF DISTURBANCE DOWNSHILL FROM PROPOSED CONSTRUCTION.

3. STRIP AND STOCKPILE TOPSOIL AND INSTALL SILT FENCING ALONG DOWNSHILL SIDE OF THE STOCKPILES.

4. INSTALL SITE DRAINAGE AND UTILITIES AND INSTALL DROP INLET PROTECTION UPON CONSTRUCTION OF CATCH BASINS.

5. INSTALL PARKING LOT AND SITE IMPROVEMENTS SHOWN HEREON.

6. INSTALL ADDITIONAL EROSION CONTROL AS REQUIRED TO PREVENT THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE AND AS DIRECTED BY THE ENGINEER.

7. WHEN PERMANENT STABILIZATION OF DISTURBED SURFACES IS ACHIEVED, REMOVE THE EROSION CONTROL DEVICES AND ANY ACCUMULATED SEDIMENT AND/ OR DEBRIS.

NOT FOR CONSTRUCTION

NYSDOT CASE #: N/A

HEALTH DEP. REF. #: N/A

CLIENT/ PROJECT: VENEZIA

SQUARE, LLC c/o

VENEZIA CORP.

PORT JEFFERSON-RIVERHEAD RD.

(NYS ROUTE 25A)

WADING RIVER

SUFFOLK COUNTY, NY 11792

TAX MAP #: 600-73-1-1.4, 1.16-1.19

TITLE: PHASE I SWPPP PLAN

SHEET NO. C-5

REV. 9

SUBMISSION SET

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROJECT MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES

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**BOHLER**  
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MELVILLE, NY 11747  
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[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

**DALE E. KOCH**  
PROFESSIONAL ENGINEER  
NEW YORK LICENSE NO. 089418

DATE: 09/18/08 DRAWN BY: MD  
SCALE: AS SHOWN CHECKED BY: JPC  
CADD ID: N08029-SWP-9D PROJECT NO: N08029  
NOT FOR CONSTRUCTION  
PHASE I SWPPP PLAN  
SHEET NO. C-5  
REV. 9  
SUBMISSION SET

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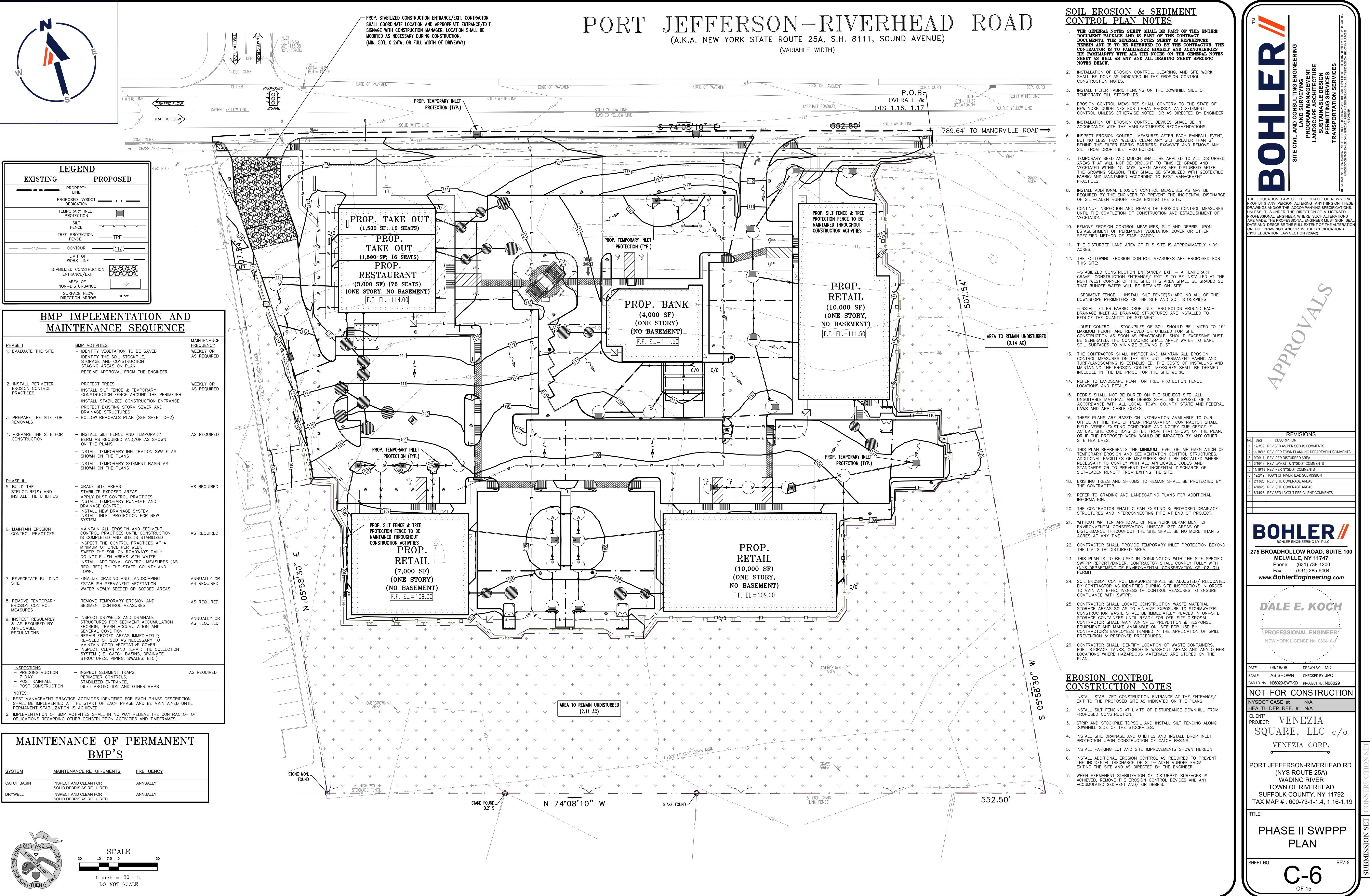
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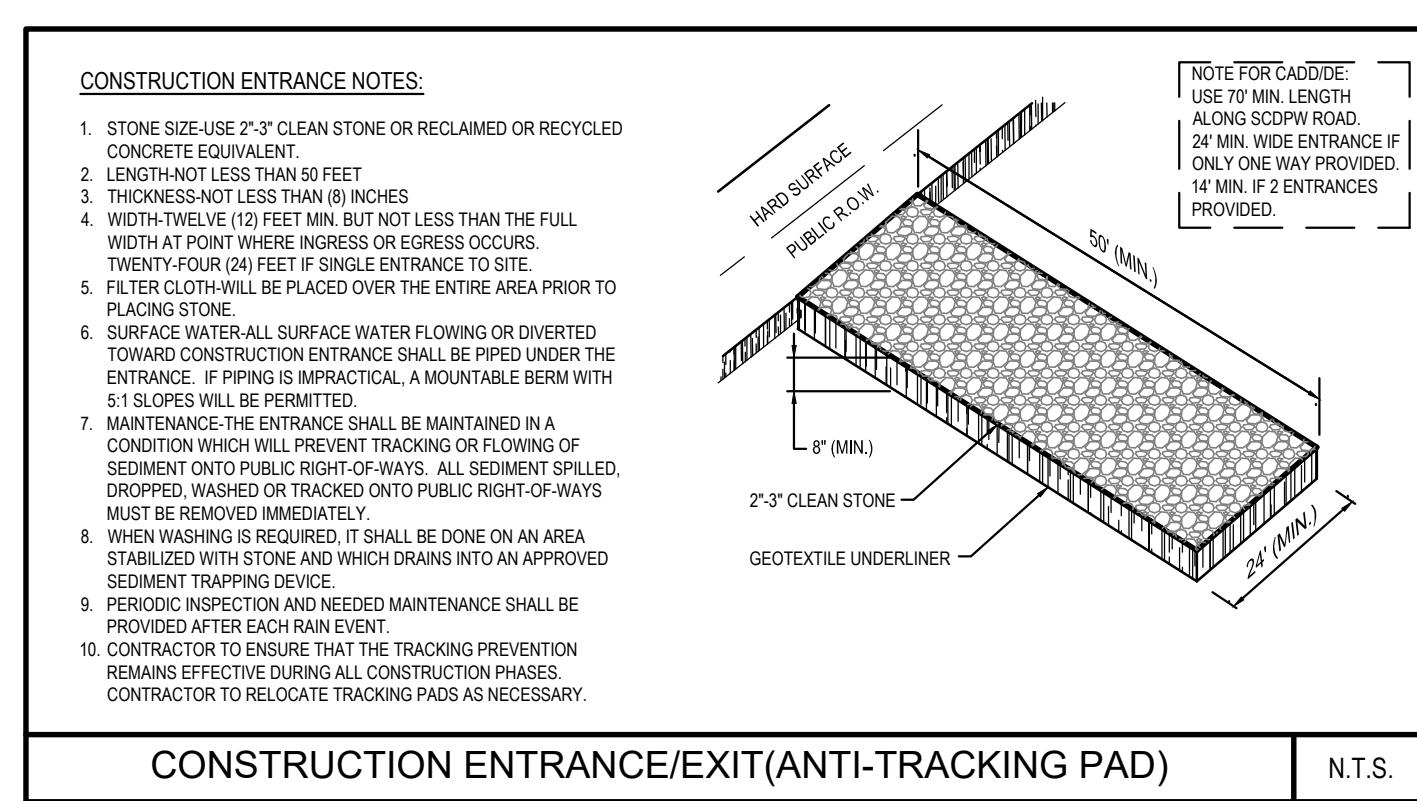
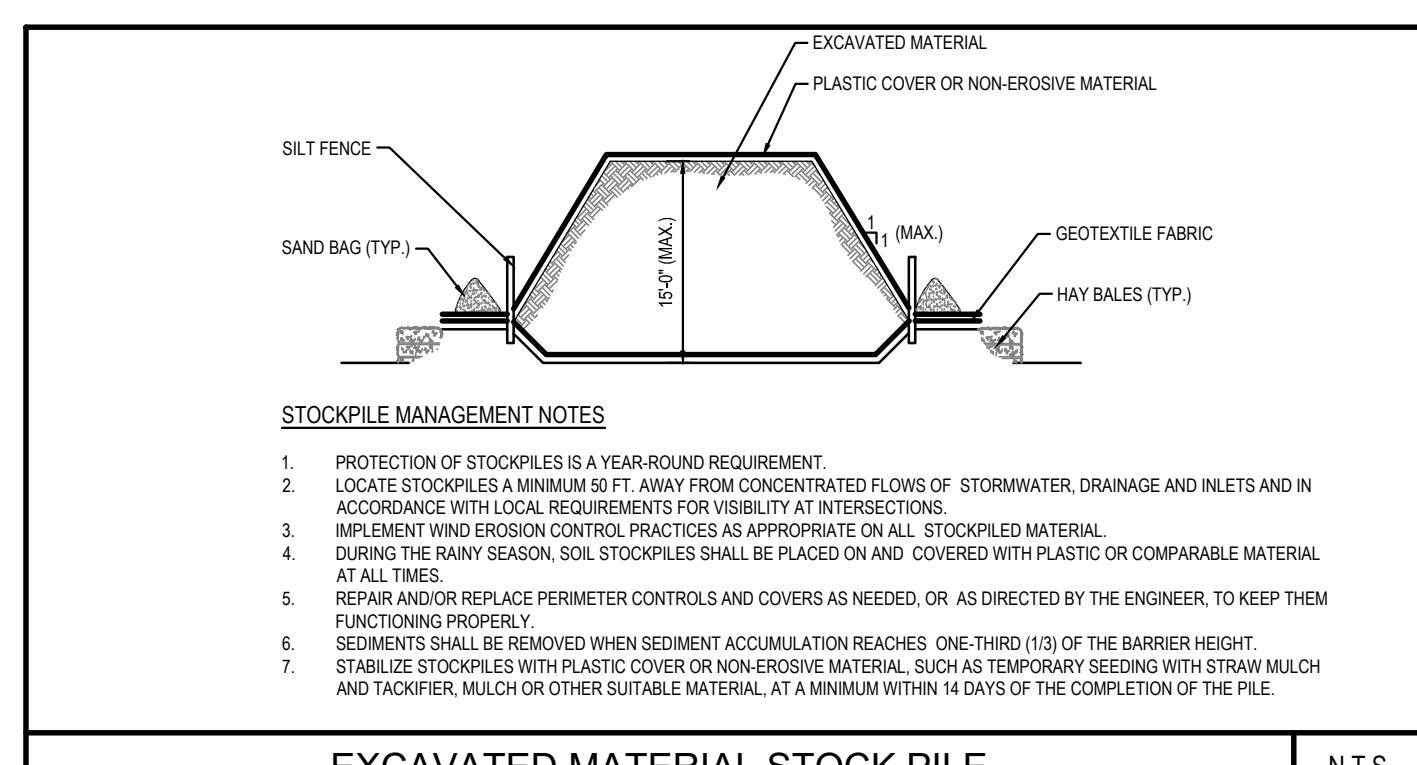
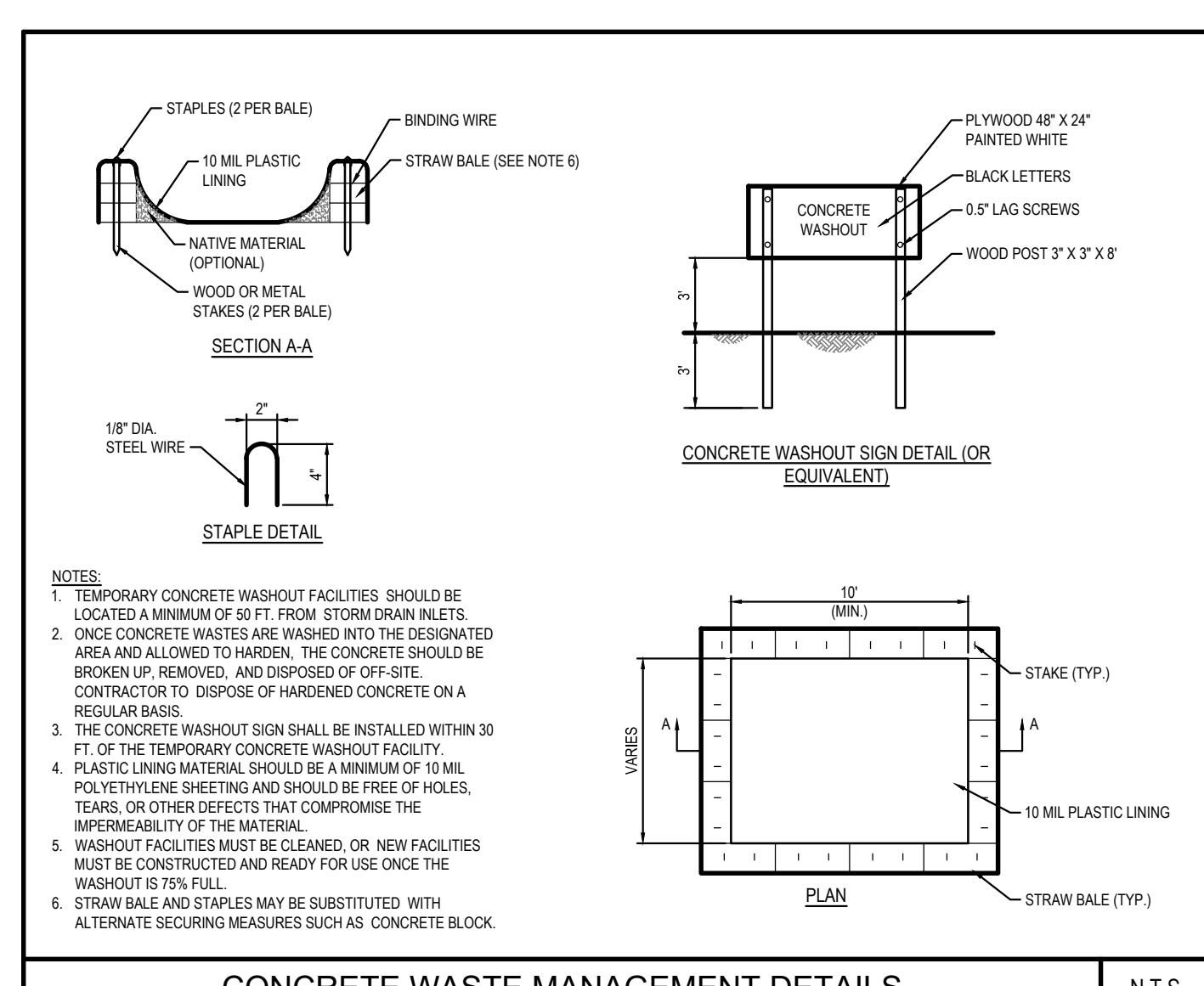
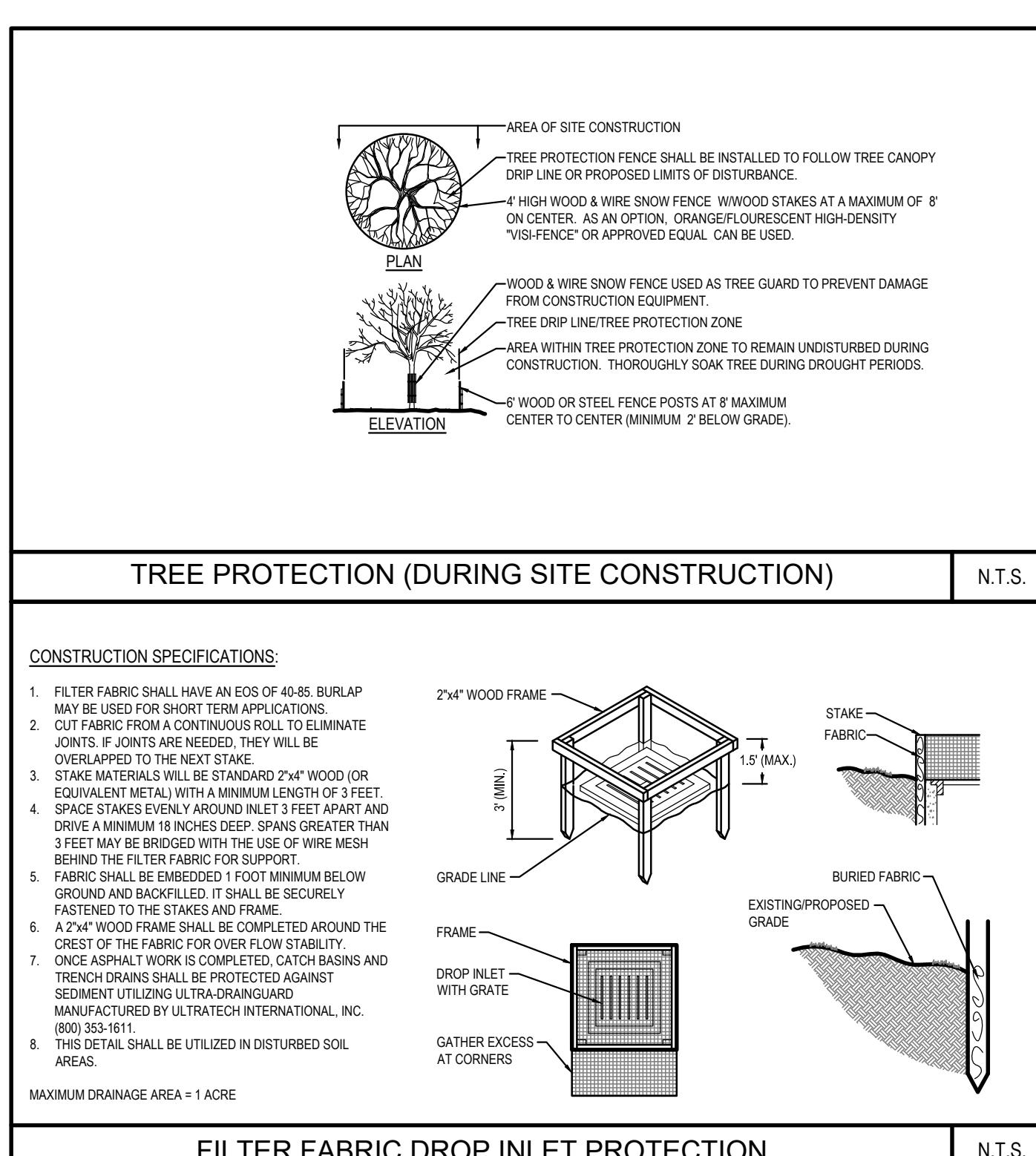
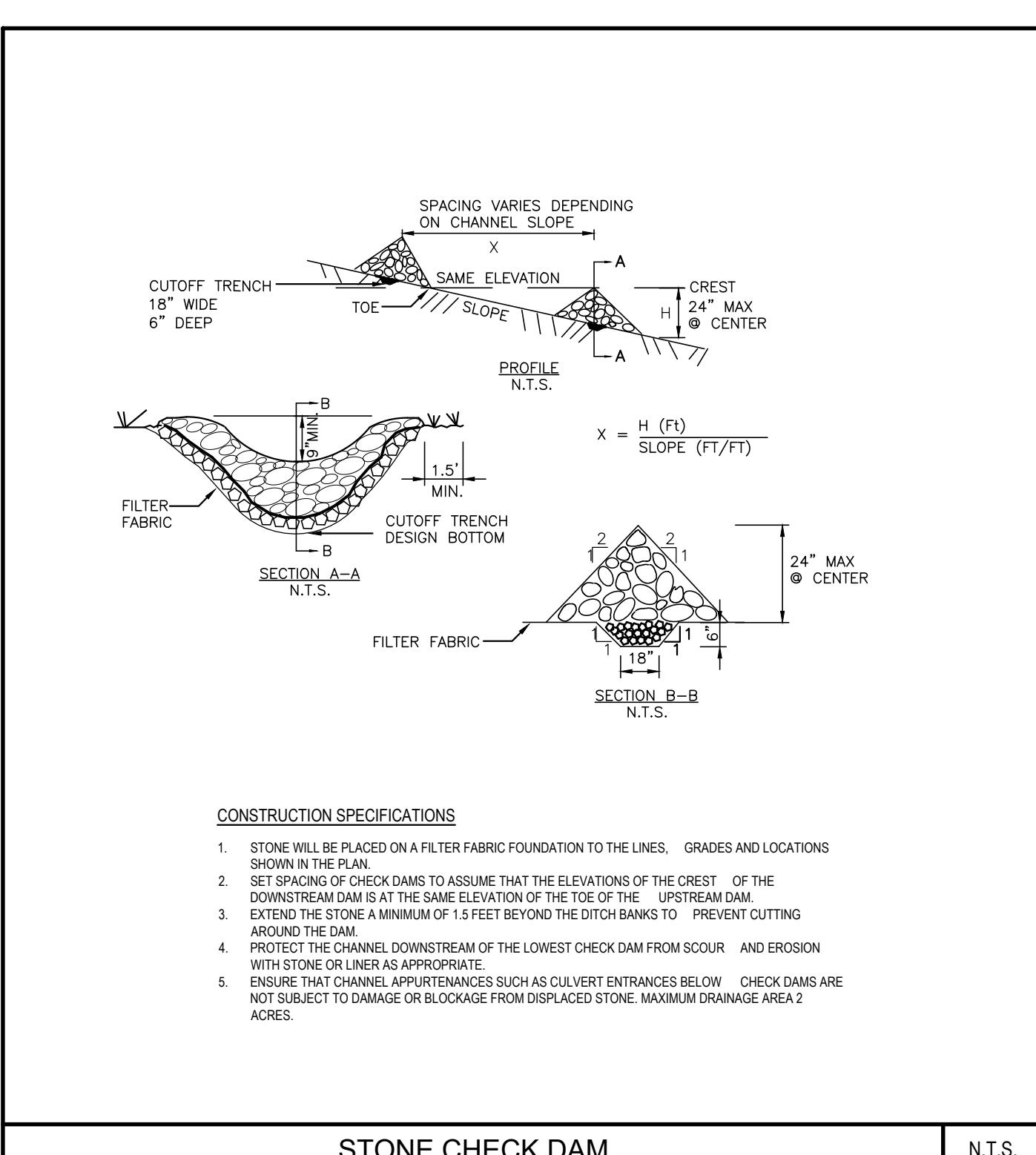
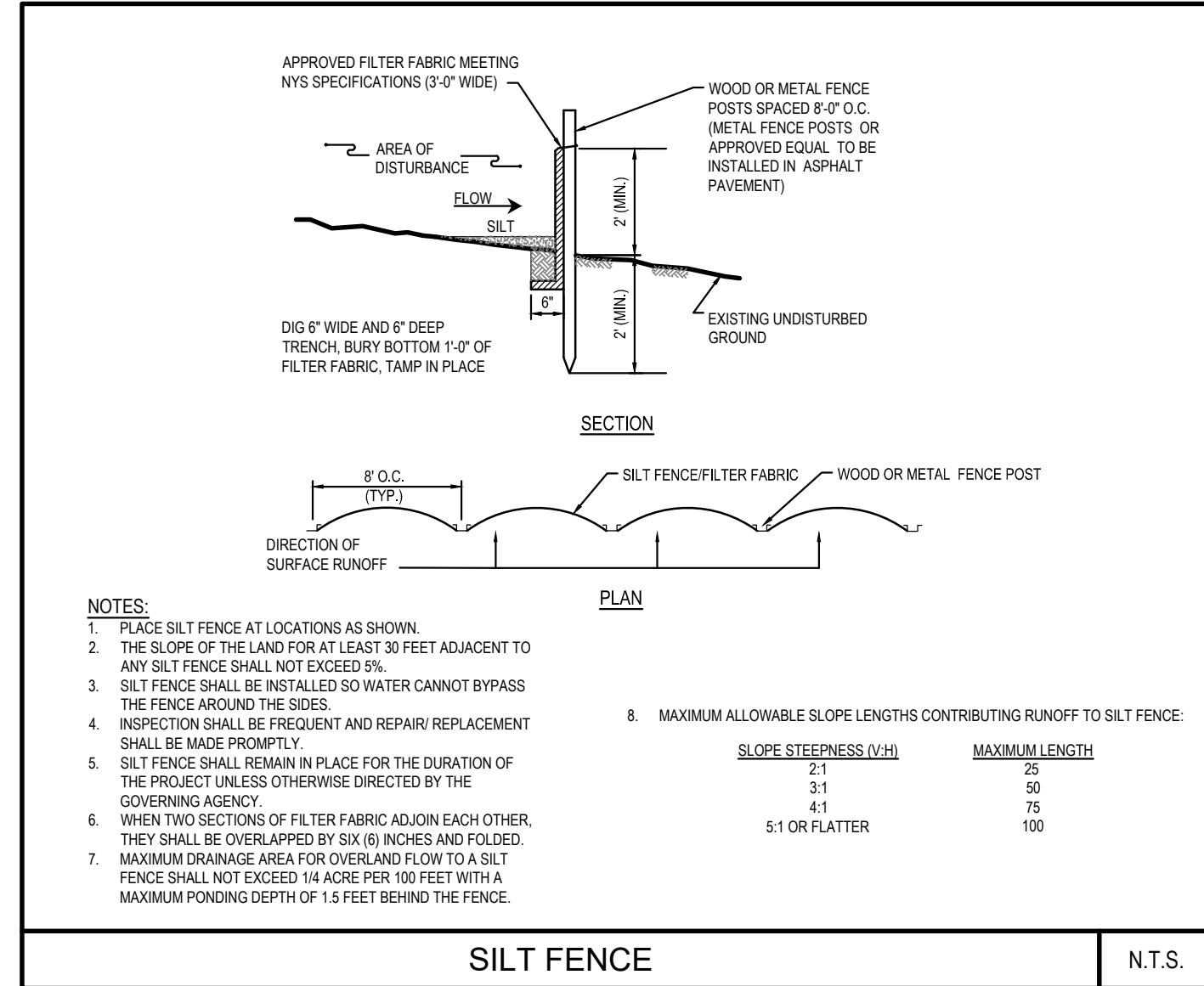
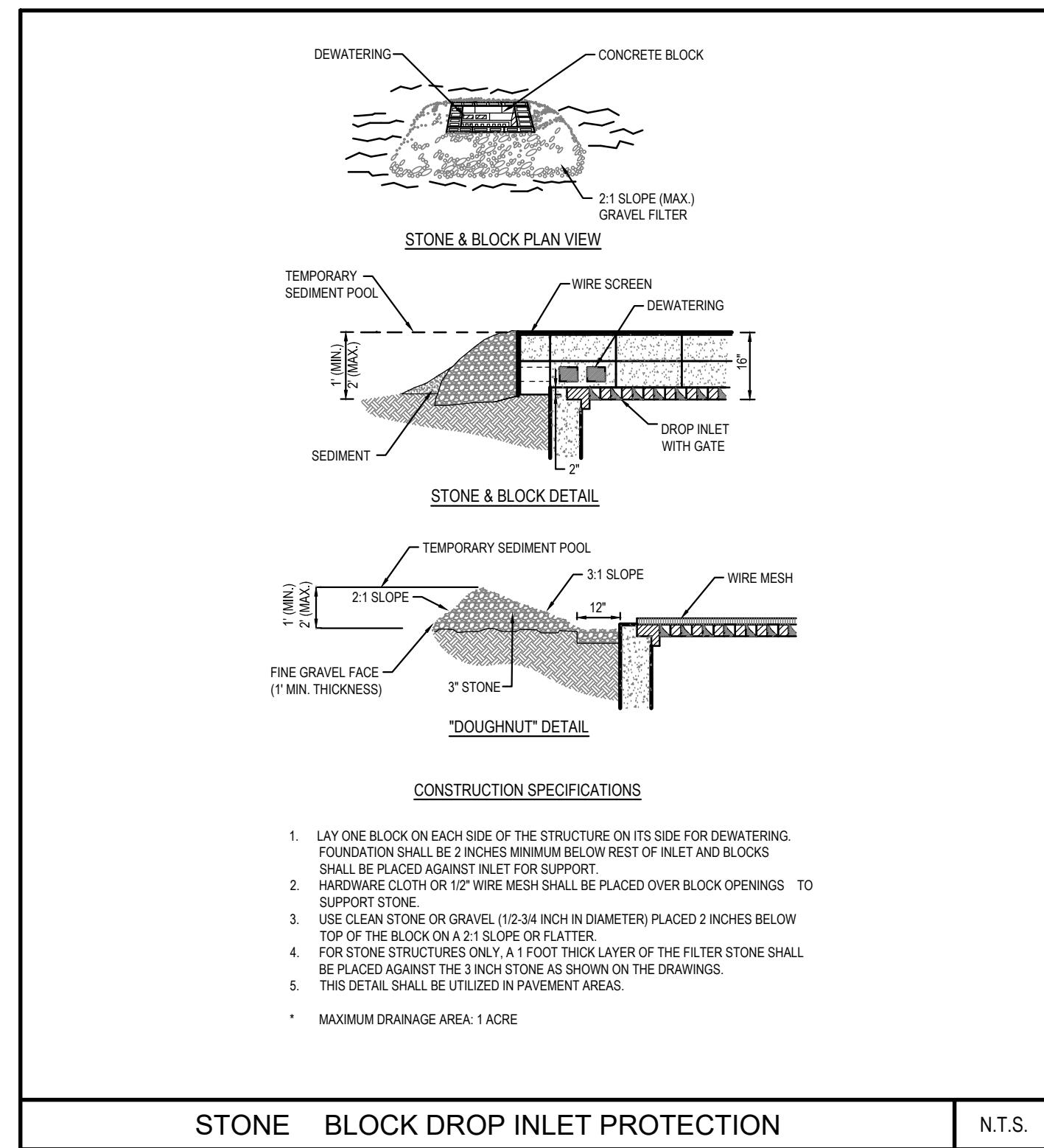
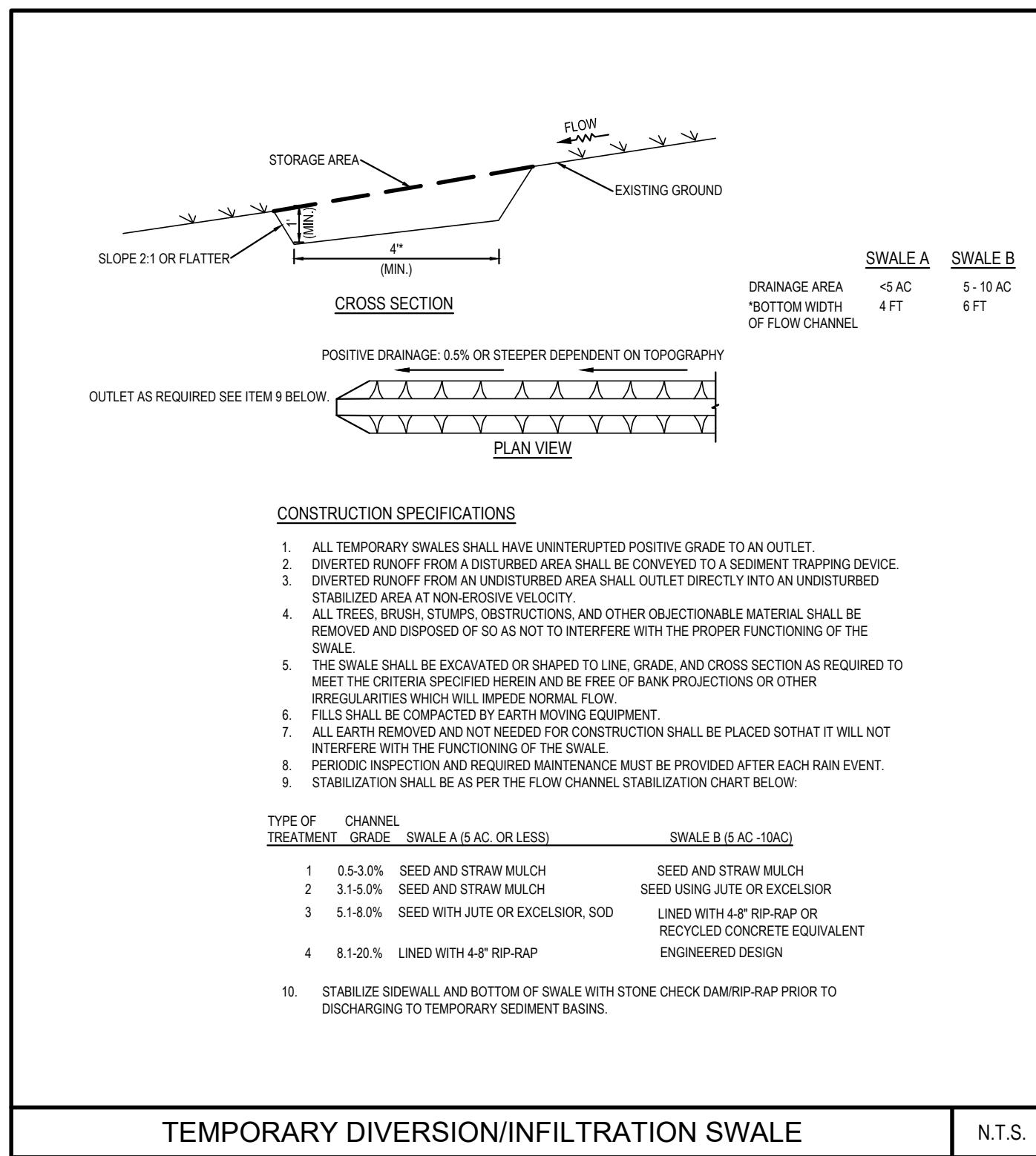
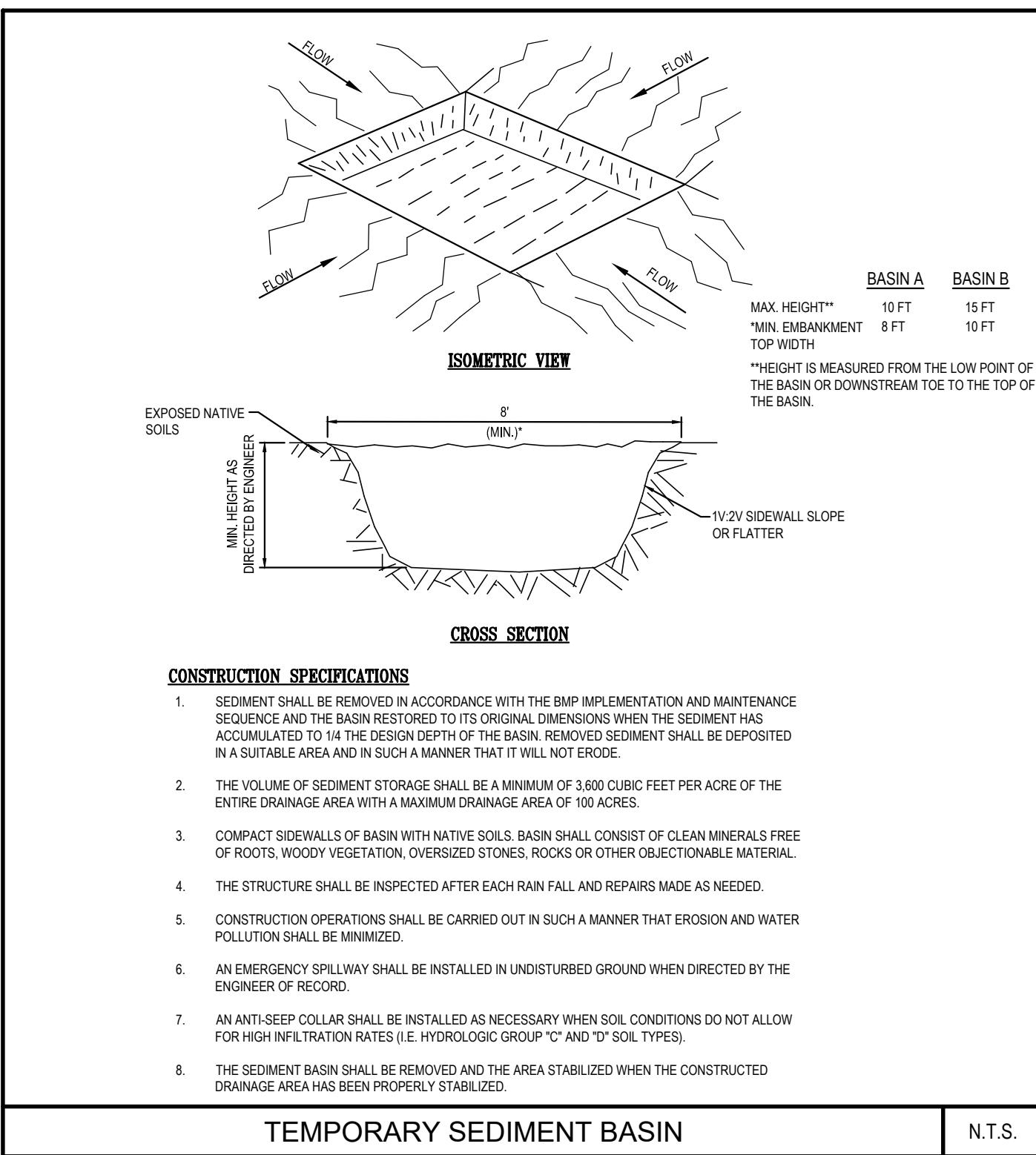
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APPROVALS



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No	Date
1	12/30/09
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7	2/13/22
8	4/8/22
9	8/14/22

**BOHLER** // BOHLER ENGINEERING NY, PLLC  
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**DALE E. KOCH**  
PROFESSIONAL ENGINEER  
NEW YORK LICENSE No. 089418

DATE: 09/18/08 DRAWN BY: MD  
SCALE: AS SHOWN CHECKED BY: JPC  
CADD ID: N08029-SWP-90 Project No: N08029

**NOT FOR CONSTRUCTION**  
NYS DOT CASE #: N/A  
HEALTH DEP. REC. #: N/A  
CLIENT/PROJECT: VENEZIA  
SQUARE, LLC c/o  
VENEZIA CORP.  
PORT JEFFERSON-RIVERHEAD RD.  
(NYS ROUTE 25A)  
TOWN OF RIVERHEAD  
SUFFOLK COUNTY, NY 11792  
TAX MAP #: 600-73-1-1, 1.16-1.19  
TITLE: SWPPP PLAN DETAILS  
SHEET NO. C-7 REV. 9

SUBMISSION SET  
C-7  
OF 15



APPROVALS

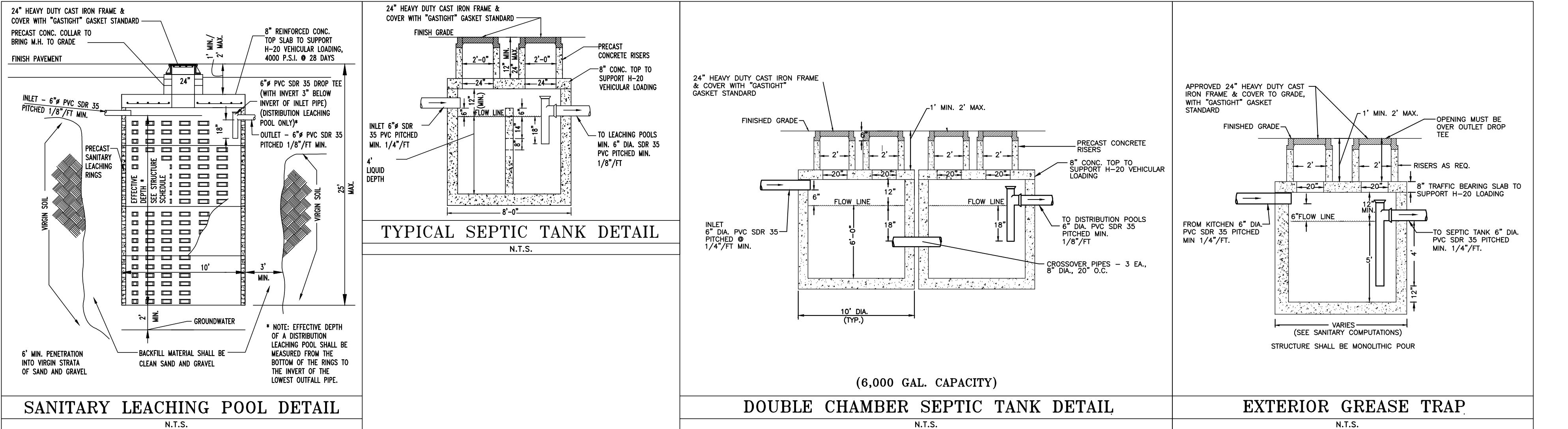


TABLE 2 - MINIMUM HORIZONTAL SEPARATION DISTANCES

Table of Minimum Horizontal Separation Distances From:	Septic Tank, Pump Station, Grease Trap, or Manhole	Leaching Pool	Sewer Line, Force Main
Building with Cellar	10 ft.	10 ft.	5 ft.
Building on Slab	5 ft.	10 ft.	5 ft.
Water Service Line/Laterals/Mains <sup>5</sup>	10 ft.	10 ft.	10 ft. <sup>4</sup>
Underground Utilities	5 ft.	5 ft.	5 ft.
Surface Water/Regulated Wetlands	75 ft.	100 ft.	50 ft.
Public Water Well <sup>2</sup>	200 ft.	200 ft.	50 ft.
Private Well <sup>1</sup>	100 ft.	150 ft.	50 ft.
Storm Drain/Stormwater Recharge Basin <sup>5</sup>	20 ft.	20 ft.	10 ft.
Catch Basins (non leaching)/Drainage Pipe <sup>6</sup>	5 ft.	10 ft.	5 ft.
Leaching Pool	8 ft.	8 ft.	10 ft. <sup>7</sup>
Septic Tank, Pump Station, Grease Trap, or Manhole <sup>8</sup>	5 ft.	8 ft.	5 ft.
Property Lines	5 ft.	10 ft.	5 ft.
Swimming Pool	20 ft.	20 ft.	5 ft.
Retaining Wall (water proof)	10 ft.	10 ft.	5 ft.
Fuel Storage Tanks (below ground)	20 ft.	20 ft.	10 ft.
Top of Embankment or Steep Slope (15% slope or greater)	25 ft.	25 ft.	25 ft.
Bluffs	65 ft.	65 ft.	65 ft.

<sup>1</sup> Increased distance between leaching pools and private wells may be required based upon the depth of the well(s) involved and the direction of groundwater flow. Refer to **Standards For The Design Of Individual Water Supply Systems**. Discharges from treatment works shall be located down gradient of the well or out of the groundwater flowpath towards the well. Precise groundwater flow direction measurements may be required.  
<sup>2</sup> Significant discharges (generally greater than 5,000 gpd or those in proximity to wells) are subject to a separate site review by the department.  
<sup>3</sup> Leaching pools for treatment works have different distance requirements. See **Appendix A** and **Appendix B** for distance requirements for leaching pools or recharge beds associated with modified subsurface sewage disposal systems and treatment works, respectively.  
<sup>4</sup> Water and sewer lines may be in the same trench if the water line is placed on an undisturbed bench or shelf so that the bottom of the water main is at least 18 inches higher than the top of the sewer and the sewer is not subject to settling, vibration, superimposed loads, or frost action.  
<sup>5</sup> A minimum of 10 foot separation is required between water service line/laterals/main and the edge of all stormwater drainage leaching structures.  
<sup>6</sup> A minimum of 5 foot separation is required between water service line/laterals/main and the edge of all stormwater drainage non-leaching structures and associated piping.  
<sup>7</sup> Sewer piping between clusters of leaching pools may be installed at lesser separation distances.  
<sup>8</sup> Multiple unit septic tanks and grease traps shall be considered one structure and therefore individual components may be installed at lesser separation distances.

### SANITARY DENSITY COMPUTATIONS

**ALLOWABLE SANITARY DENSITY FLOW**  
SITE AREA = 6.342 ACRES (276,249 SF)  
GROUNDWATER MANAGEMENT ZONE III = 300 GPD/AC  
AREA OF SITE IN GROUNDWATER MANAGEMENT ZONE III = 6.342 ACRES  
(300 GPD/AC X 6.342 AC) = 1,902.6 GPD ALLOWABLE

### PROPOSED SANITARY FLOW

DENSITY COMPUTATIONS PER TENANT LIST (PROPOSED CONDITIONS)						
Tenant	U e	B d n	Area	Re a r a e	Den F o	Re a e
TENANT 1	WET RETAIL W/FOOD	1,500 SF	16 SEATS	0.03 GPD/SF	45.00 GPD	
TENANT 2	WET RETAIL W/FOOD	1,500 SF	16 SEATS	0.03 GPD/SF	45.00 GPD	
TENANT 3	RESTAURANT	3,000 SF	76 SEATS	10 GPD/SEAT	760.00 GPD	
TENANT 4	BANK	4,000 SF	-----	0.06 GPD/SF	240.00 GPD	
TENANT 5	DRY RETAIL	10,000 SF	-----	0.03 GPD/SF	300.00 GPD	
TENANT 6	DRY RETAIL	10,000 SF	-----	0.03 GPD/SF	300.00 GPD	
TENANT 7	DRY RETAIL	7,000 SF	-----	0.03 GPD/SF	210.00 GPD	
To a:		37,000 SF	To a Den F o :		1,902.6 GPD	

ALLOWABLE DENSITY FLOW = 1,902.6 GPD  
PROPOSED DENSITY FLOW = 1,900.0 GPD

### SANITARY SYSTEM DESIGN #1

#### SANITARY SYSTEM DESIGN #4

##### DESIGN FLOW

USE: BANK = 0.06 GPD/SF  
BUILDING AREA = 4,000 SF  
TOTAL DAILY FLOW = 4,000 SF X 1.15 GPD/SF = 225 GPD

##### SEPTIC TANK

REQUIRED CAPACITY = 2 DAYS FLOW =  
225 GPD X 2 DAYS = 450 GPD  
MINIMUM ALLOWABLE SEPTIC TANK PER SCDS STANDARDS IS 1,200 GAL  
USE A SINGLE SEPTIC TANK 8' DIA X 4' LIQ. DEPTH  
CAPACITY = 1,200 GAL

##### LEACHING POOLS

DESIGN FLOW = 225 GPD  
LEACHING RATE = 1.5 GPD/SF  
REQUIRED SIDEWALL AREA = 225 GPD/1.5 GPD/SF = 150 SF  
MINIMUM ALLOWABLE LEACHING POOL PER SCDS STANDARDS IS 300 SF (9.55 VF)  
USE 1 LEACHING POOL @ 10' X 10' VF EFFECTIVE DEPTH  
TOTAL EFFECTIVE DEPTH = 10' VF

##### SANITARY SYSTEM DESIGN #5

#### DESIGN FLOW

USE: DRY RETAIL = 0.03 GPD/SF  
BUILDING AREA = 10,000 SF  
TOTAL DAILY FLOW = 10,000 SF X 0.03 GPD/SF = 300 GPD

##### SEPTIC TANK

REQUIRED CAPACITY = 2 DAYS FLOW =  
300 GPD X 2 DAYS = 600 GPD  
MINIMUM ALLOWABLE SEPTIC TANK PER SCDS STANDARDS IS 1,200 GAL  
USE A SINGLE SEPTIC TANK 8' DIA X 4' LIQ. DEPTH FOR EACH SYSTEM  
CAPACITY = 1,200 GAL

##### LEACHING POOLS

DESIGN FLOW = 300 GPD  
LEACHING RATE = 1.5 GPD/SF  
REQUIRED SIDEWALL AREA = 2,280 GPD/1.5 GPD/SF = 1,520 SF  
REQUIRED DEPTH = 1,520 SF/31.42 SF/VF = 48.38 VF  
USE 5 LEACHING POOLS @ 10' X 10' VF EFFECTIVE DEPTH  
TOTAL EFFECTIVE DEPTH = 50' VF

##### GREASE TRAP

DESIGN FLOW = 76 SEATS X 20 GPD/SEAT = 1,520 GPD  
MINIMUM ALLOWABLE GREASE TRAP PER SCDS STANDARDS IS 10' X 5' LIQUID DEPTH (2,500 GAL)  
USE A 10' X 5' LIQUID DEPTH GREASE TRAP

##### SANITARY SYSTEM DESIGN #7

#### DESIGN FLOW

USE: DRY RETAIL = 0.03 GPD/SF  
BUILDING AREA = 7,000 SF  
TOTAL DAILY FLOW = 7,000 SF X 0.03 GPD/SF = 210 GPD

##### SEPTIC TANK

REQUIRED CAPACITY = 2 DAYS FLOW =  
300 GPD X 2 DAYS = 600 GPD  
MINIMUM ALLOWABLE SEPTIC TANK PER SCDS STANDARDS IS 1,200 GAL  
USE A SINGLE SEPTIC TANK 8' DIA X 4' LIQ. DEPTH FOR EACH SYSTEM  
CAPACITY = 1,200 GAL

##### LEACHING POOLS

DESIGN FLOW = 210 GPD  
LEACHING RATE = 1.5 GPD/SF  
REQUIRED SIDEWALL AREA = 140 SF/31.42 SF/VF = 4.46 VF  
REQUIRED DEPTH = 140 SF/31.42 SF/VF = 4.46 VF  
USE 1 LEACHING POOL @ 10' X 10' VF EFFECTIVE DEPTH  
TOTAL EFFECTIVE DEPTH = 10' VF

### BORING LOG

THIS PLAN REFERENCES A GEOTECHNICAL REPORT AS DESCRIBED ON COVER SHEET.

**McDONALD GEOSCIENCE**  
Box 1000 • Southold, New York 11971 • (631) 765-9877

**TEST HOLE DATA SHEET**

Name: Northwind Group B1  
Surveyor:  
Location: Building #1ee  
Tax Map Number: 800-73-1-1, 4, 1, 16, 1, 17, 1, 18, 1, 19  
Project Description: Site plan  
Date: 10/17/03

Brown silty loam 0ft  
2ft  
Brown fine to coarse sand 3ft  
7ft  
Pale brown fine to medium sand 5ft  
20ft  
Comments: No water encountered  
Test hole boring (B1-34).... 100.00

### SANITARY STRUCTURE SCHEDULE

#### DESIGN FLOW

USE: BANK = 0.06 GPD/SF  
BUILDING AREA = 4,000 SF  
TOTAL DAILY FLOW = 4,000 SF X 0.06 GPD/SF = 240 GPD

#### SEPTIC TANK

REQUIRED CAPACITY = 2 DAYS FLOW =  
240 GPD X 2 DAYS = 480 GPD  
MINIMUM ALLOWABLE SEPTIC TANK PER SCDS STANDARDS IS 1,200 GAL  
USE A SINGLE SEPTIC TANK 8' DIA X 4' LIQ. DEPTH  
CAPACITY = 1,200 GAL

#### LEACHING POOLS

DESIGN FLOW = 240 GPD  
LEACHING RATE = 1.5 GPD/SF  
REQUIRED SIDEWALL AREA = 240 GPD/1.5 GPD/SF = 160 SF  
MINIMUM ALLOWABLE LEACHING POOL PER SCDS STANDARDS IS 300 SF (9.55 VF)  
USE 1 LEACHING POOL @ 10' X 10' VF EFFECTIVE DEPTH  
TOTAL EFFECTIVE DEPTH = 10' VF

#### SANITARY SYSTEM DESIGN #5

#### DESIGN FLOW

USE: DRY RETAIL = 0.03 GPD/SF  
BUILDING AREA = 10,000 SF  
TOTAL DAILY FLOW = 10,000 SF X 0.03 GPD/SF = 300 GPD

#### SEPTIC TANK

REQUIRED CAPACITY = 2 DAYS FLOW =  
300 GPD X 2 DAYS = 600 GPD  
MINIMUM ALLOWABLE SEPTIC TANK PER SCDS STANDARDS IS 1,200 GAL  
USE A SINGLE SEPTIC TANK 8' DIA X 4' LIQ. DEPTH FOR EACH SYSTEM  
CAPACITY = 1,200 GAL

#### LEACHING POOLS

DESIGN FLOW = 300 GPD  
LEACHING RATE = 1.5 GPD/SF  
REQUIRED SIDEWALL AREA = 2,280 GPD/1.5 GPD/SF = 1,520 SF  
REQUIRED DEPTH = 1,520 SF/31.42 SF/VF = 48.38 VF  
USE 5 LEACHING POOLS @ 10' X 10' VF EFFECTIVE DEPTH  
TOTAL EFFECTIVE DEPTH = 50' VF

#### SANITARY SYSTEM DESIGN #7

#### DESIGN FLOW

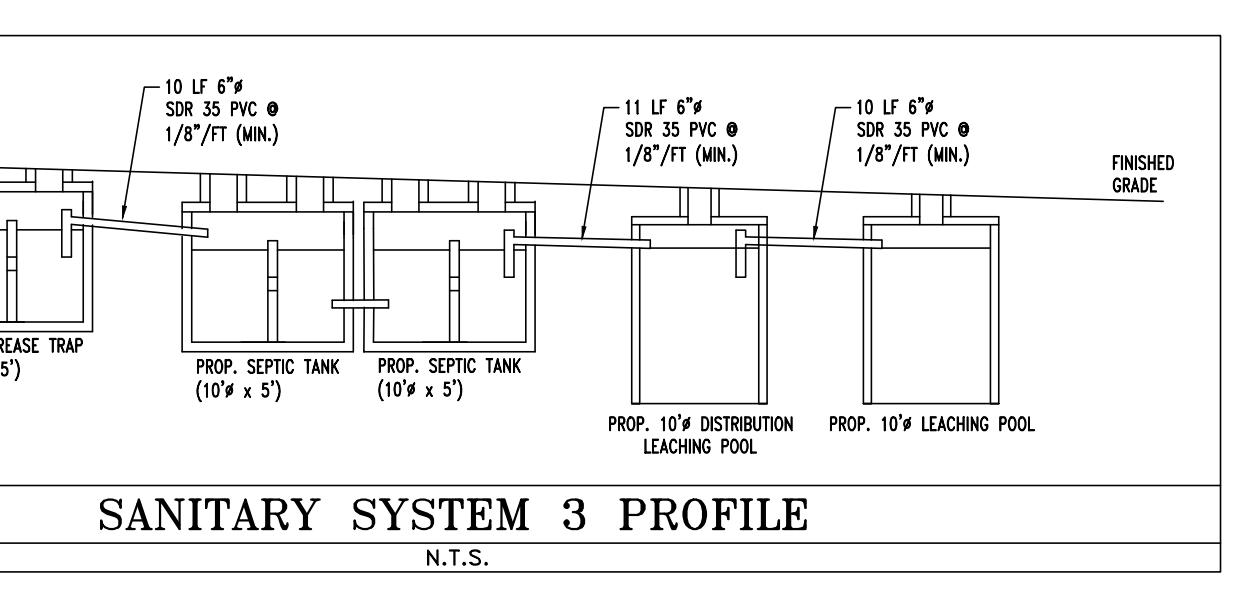
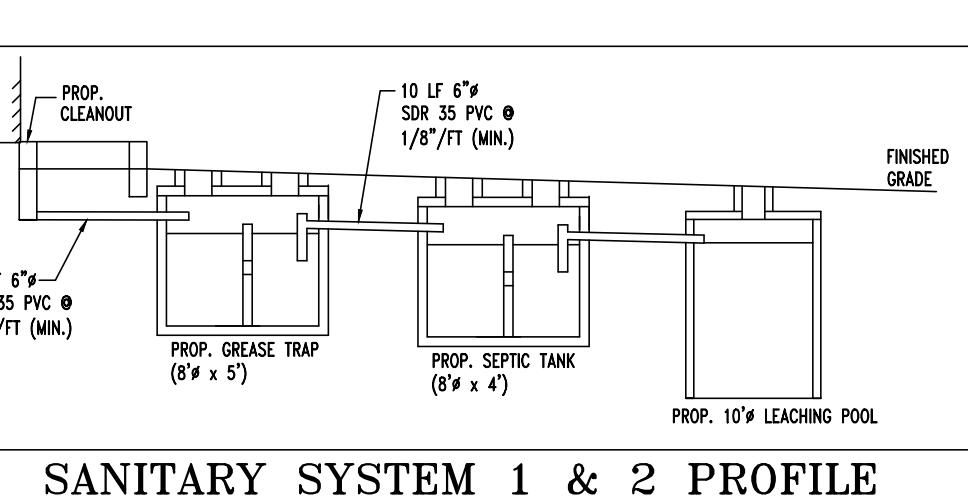
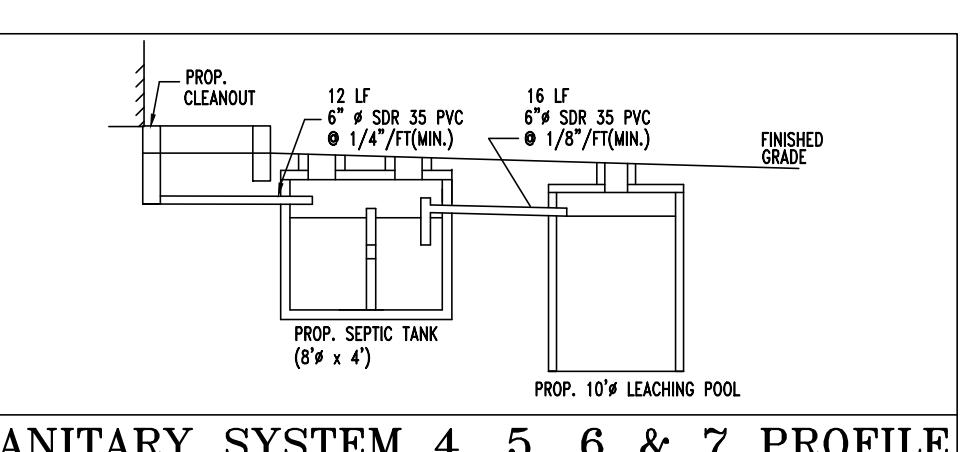
USE: DRY RETAIL = 0.03 GPD/SF  
BUILDING AREA = 7,000 SF  
TOTAL DAILY FLOW = 7,000 SF X 0.03 GPD/SF = 210 GPD

#### SEPTIC TANK

REQUIRED CAPACITY = 2 DAYS FLOW =  
300 GPD X 2 DAYS = 600 GPD  
MINIMUM ALLOWABLE SEPTIC TANK PER SCDS STANDARDS IS 1,200 GAL  
USE A SINGLE SEPTIC TANK 8' DIA X 4' LIQ. DEPTH FOR EACH SYSTEM  
CAPACITY = 1,200 GAL

#### LEACHING POOLS

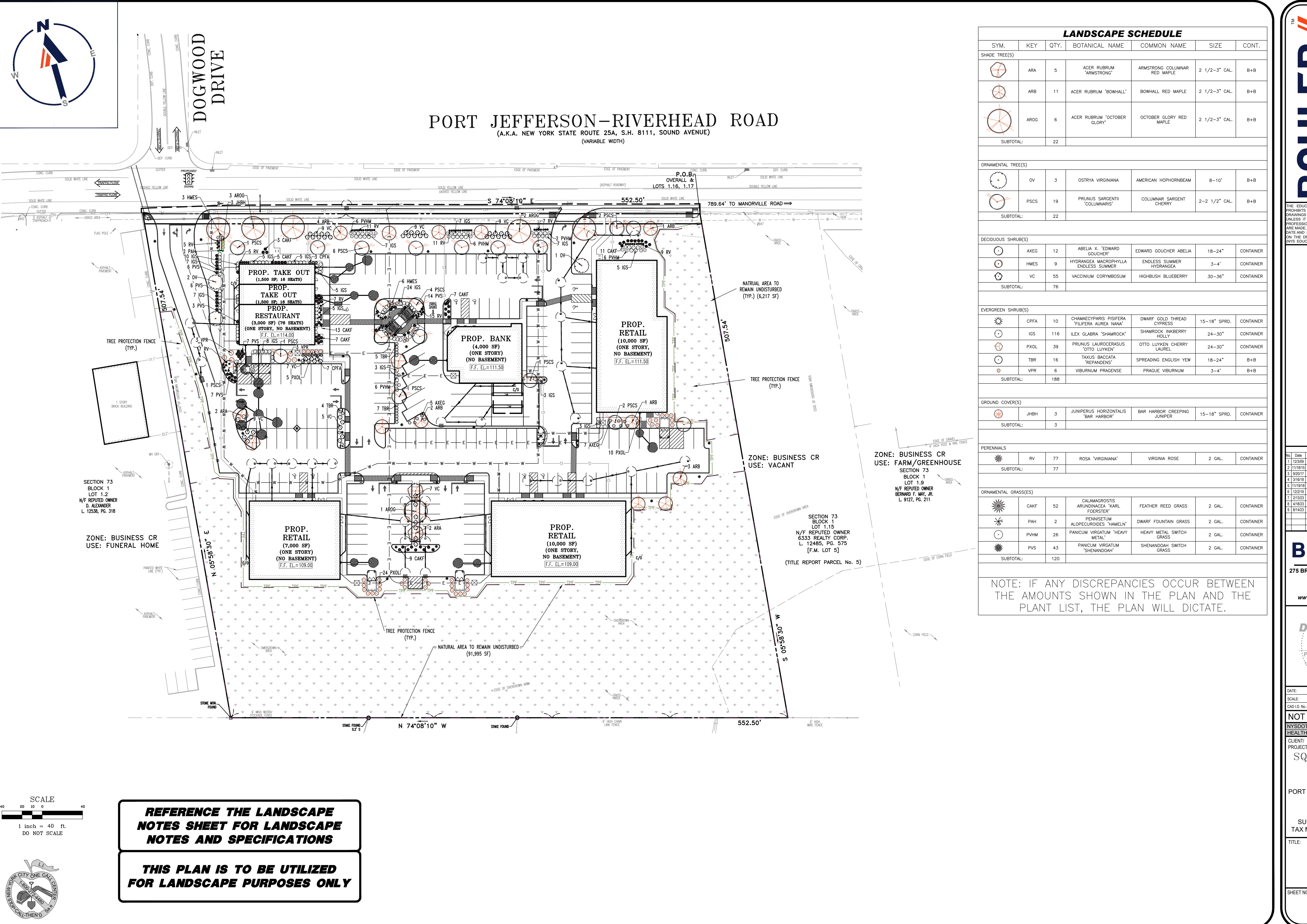
DESIGN FLOW = 210 GPD  
LEACHING RATE = 1.5 GPD/SF  
REQUIRED SIDEWALL AREA = 140 SF/31.42 SF/VF = 4.46 VF  
REQUIRED DEPTH = 140 SF/31.42 SF/VF = 4.46 VF  
USE 1 LEACHING POOL @ 10' X 10' VF EFFECTIVE DEPTH  
TOTAL EFFECTIVE DEPTH = 10' VF



**SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES APPROVAL**  
SHEET NO. C-9 OF 15  
REV. 9  
SUBMISSION SET

**DALE E. KOCH**  
PROFESSIONAL ENGINEER  
NEW YORK LICENSE NO. 089418  
DATE: 09/18/08 DRAWN BY: MD  
SCALE: AS SHOWN CHECKED BY: JPC  
CADD NO.: N08029-SCGU-9D PROJECT NO.: N08029  
NOT FOR CONSTRUCTION  
NYSDOT CASE #: N/A  
HEALTH DEP. REF. #: N/A

CLIENT/PROJECT: VENEZIA SQUARE, LLC c/o VENEZIA CORP.  
PORT JEFFERSON-RIVERHEAD RD. (NYS ROUTE 25A)  
TOWN OF RIVERHEAD  
SUFFOLK COUNTY, NY 11792  
TAX MAP #: 600-73-1-1, 4, 1, 16-1, 19  
TITLE: SANITARY DETAILS COMPUTATIONS  
SHEET NO. C-9 OF 15<br



APPROVALS

## THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

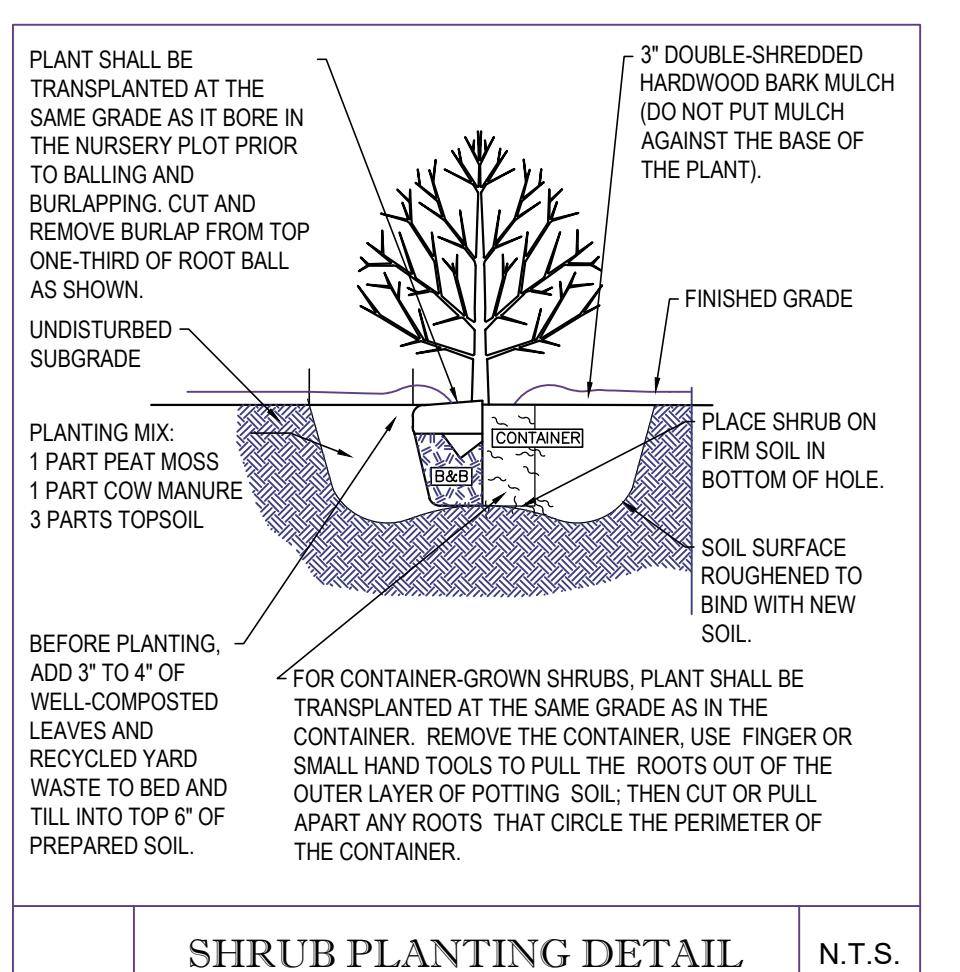
### IRRIGATION NOTE:

CONTRACTOR SHALL PROVIDE AN IRRIGATION SYSTEM, COMPLETE WITH DESIGN AND INSTALLATION, FOR BOTH LAW & BED AREAS. DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL PROVIDE AND SUBMIT TO DESIGN, CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY IRRIGATION SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET MAXIMUM REQUIREMENT FOR IRRIGATION SYSTEM AS WELL AS ANY PERMITTING REQUIREMENTS FOR PRESSURE REDUCING DEVICES. SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS AND CONTROLLERS. ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN.

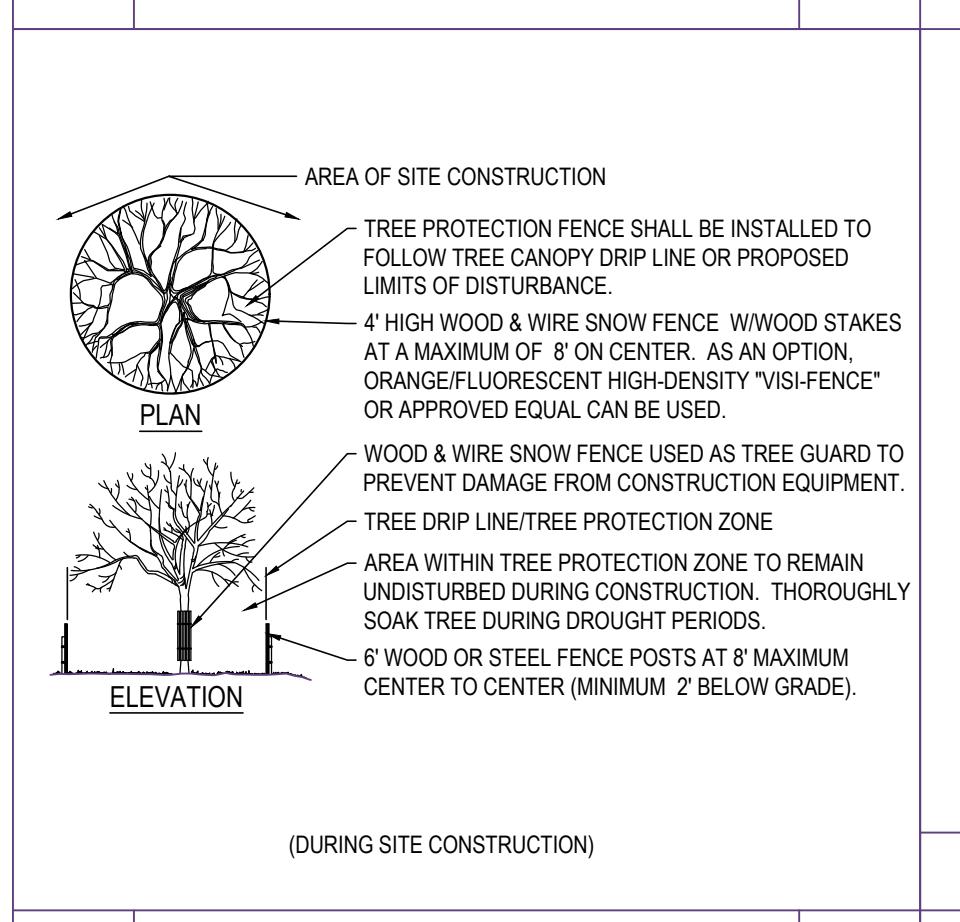
### LANDSCAPE SPECIFICATIONS

- SCOPE OF WORK:**
  - A. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
- MATERIALS**
  - A. GENERAL - ALL HARDCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
  - B. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5 - 7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
  - C. LAWN - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM SIX INCH (6") THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SOIL EROSION AND SEDIMENT CONTROL NOTES.
  - C.a. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
  - C.b. SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/FEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
- TREE PROTECTION**
  - A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIPLINE OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
  - B. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY VINYL, OR APPROVED EQUAL MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
- PLANTING**
  - A. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNPLANTED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
  - B. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
  - C. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
  - D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
- SOIL MODIFICATIONS**
  - A. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
  - B. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETERMINAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
  - C. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
  - D. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
  - E. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40 CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
  - F. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- FINISHED GRADING**
  - A. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
  - B. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").
  - C. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
  - D. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
- TOPSOILING**
  - A. CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
- NOTES:**
  - B. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.
  - C. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
  - D. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
  - E. SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.
  - F. NO PLANTING AND LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS ( QUANTITIES BASED ON A 1,000 S. UARE FOOT AREA):
    - a. 20 POUNDS GROW POWER OR APPROVED EQUAL
    - b. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP
- TRANSPLANTING (WHEN REQUIRED)**
  - A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
  - B. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, AND EQUALLY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
  - C. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
  - D. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
  - E. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
  - F. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
- WATERING**
  - A. NEW PLANTINGS OR LAWN AREAS SHALL BE EQUALLY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
  - B. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
  - C. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
- GUARANTEE**
  - A. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
  - B. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
  - C. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
  - D. LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- CLEANUP**
  - A. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
  - B. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.

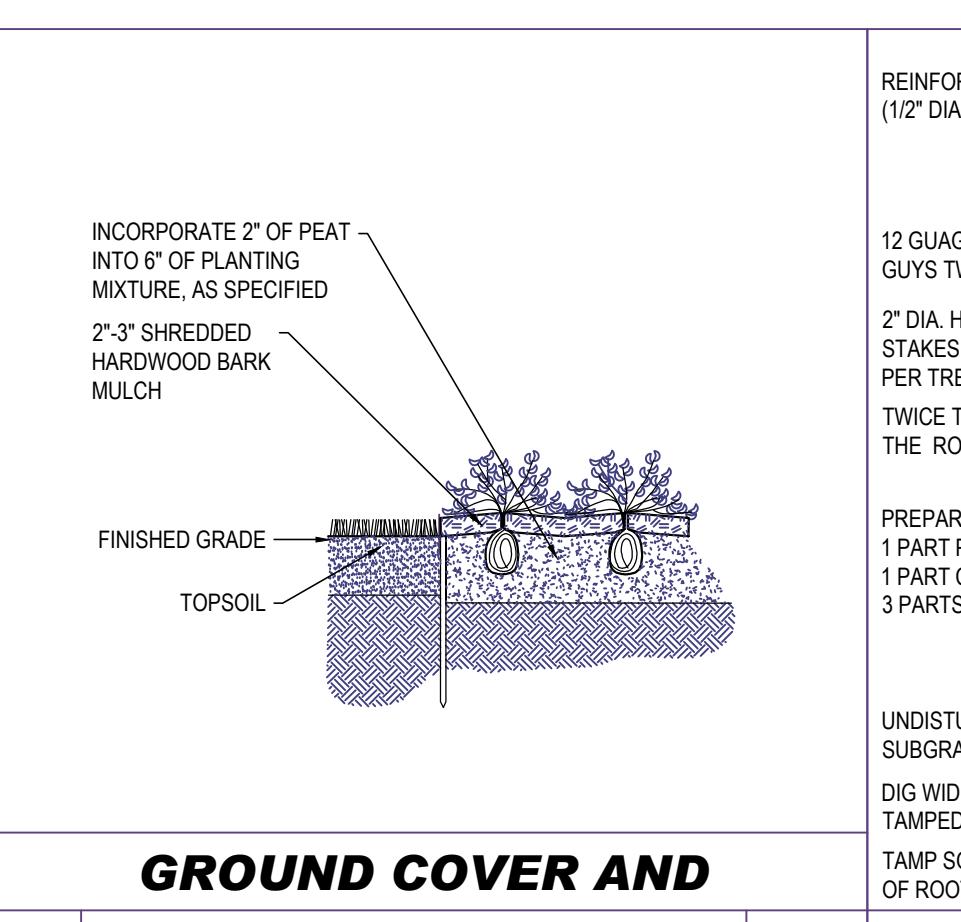
REQUIREMENTS	CALCULATIONS (REQUIRED/PROPOSED)	COMPLIANCE
108-54.1 - SCREENING AND BUFFER REGULATIONS TREES - TREES SHALL BE REQUIRED ALONG STREET FRONTAGES AT A DISTANCE EQUAL TO THE AVERAGE DIAMETER OF THE BRANCHING HABIT FOR THE GIVEN SPECIES AT Maturity. Said REQUIREMENT SHALL BE SPECIFICALLY EXEMPTED BY THE TOWN BOARD WHEN GRANTING A CHANGE OF ZONE OR WHEN IT IS DEEMED, THROUGH THE PLANNING OF SITE PLAN REVIEW, THAT AN ARCHITECTURE ACCEPTABLE SUBSTITUTE HAS BEEN PROVIDED TO THE SITE AND LOCATION, HAS BEEN PROVIDED. SUCH SUBSTITUTE MUST UTILIZE A NUMBER OF TREES THAT IS AT LEAST EQUAL TO THAT ARRIVED AT IF PLACED ALONG STREET FRONTAGES.	REQUIRED: 552.50' / 30' MATURE CANOPY DIAMETER = 18.4 = 19 STREET TREES REQUIRED. PROPOSED: (5) AROG, (9) PCS AND (5) ARB.	COMPLIES
108-296 PARKING STANDARDS PARKING LOTS WITH 21 OR MORE SPACES SHALL HAVE "ORCHARD" PLANTING FOR SHADE - ONE TREE PER 10 OFF STREET SPACES. SUCH TREES SHALL BE SPREAD THROUGHOUT THE PARKING LOT, RATHER THAN CLUSTERED ONLY ALONG THE EDGES.	REQUIRED: 171 PARKING SPACES / 171 / 10 = 17.1 OR 18 TREES REQUIRED. PROPOSED: 25 TREES	COMPLIES
ALL SITE PLANS SHALL BE REQUIRED TO SHOW LANDSCAPE WATERING SYSTEMS FOR ALL LANDSCAPED AREAS BETWEEN THE FRONT LINE OF THE BUILDING AND THE STREET R.O.W.	PROPOSED: ALL LANDSCAPED AREAS WILL BE IRRIGATED.	COMPLIES



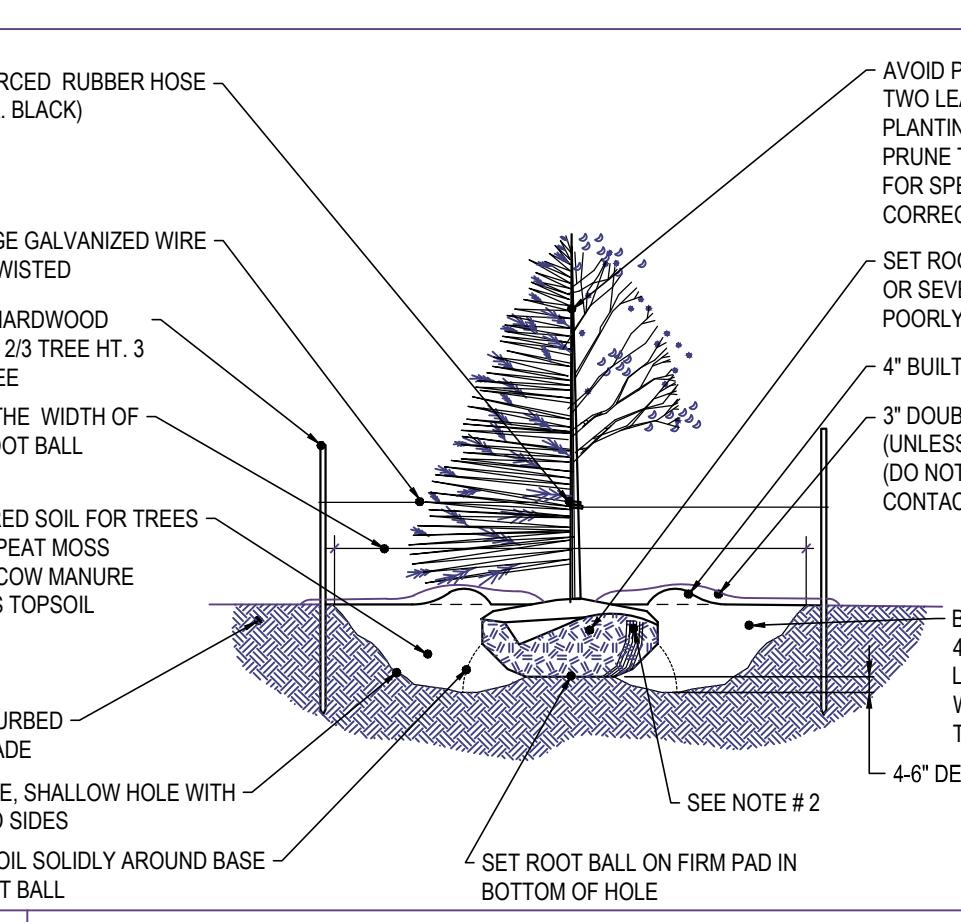
SHRUB PLANTING DETAIL N.T.S.



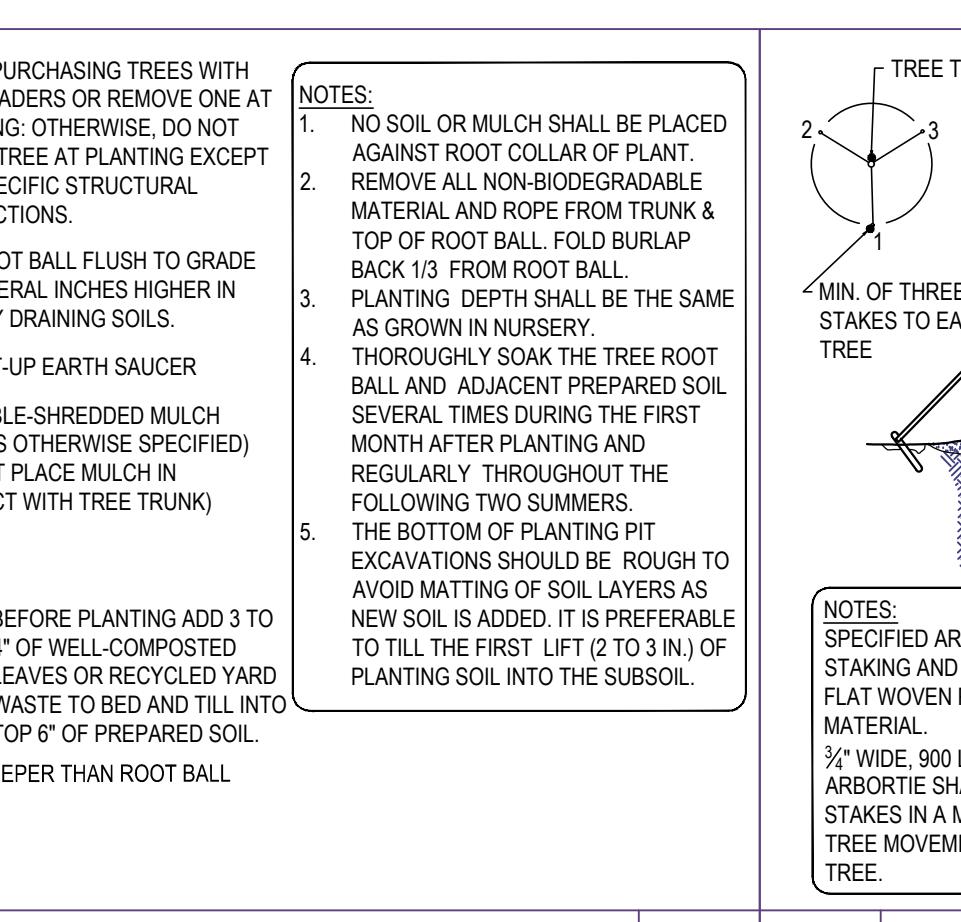
TREE PROTECTION N.T.S.

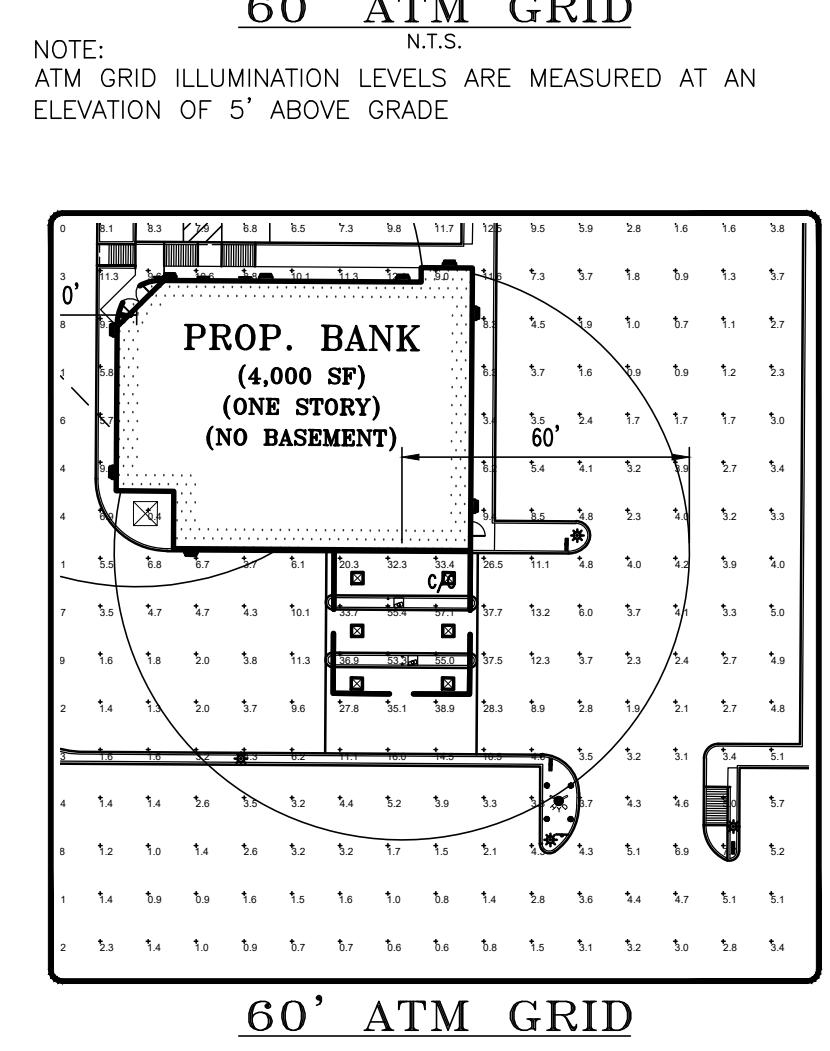
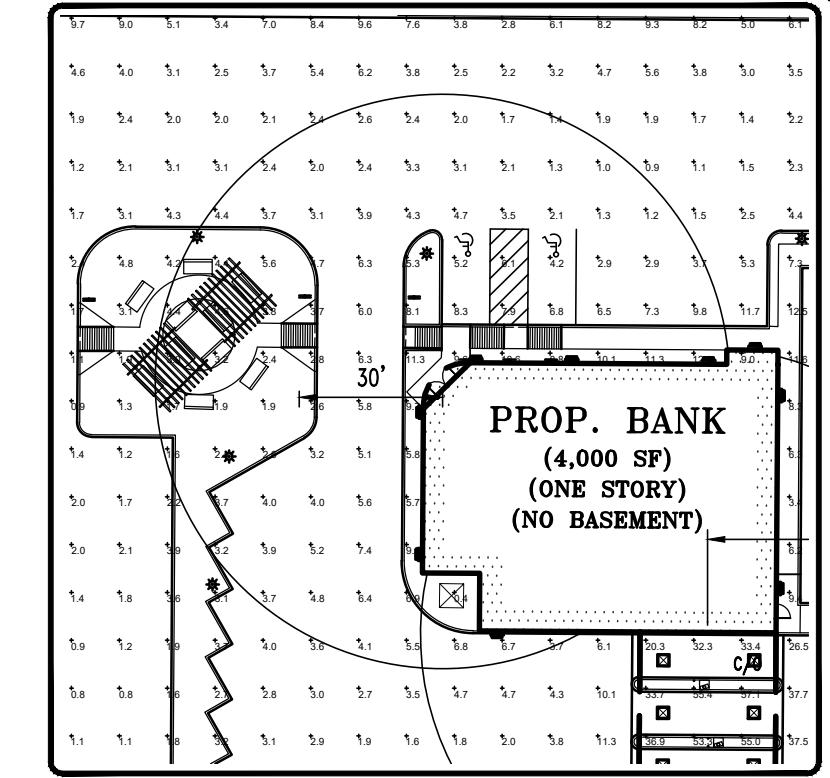
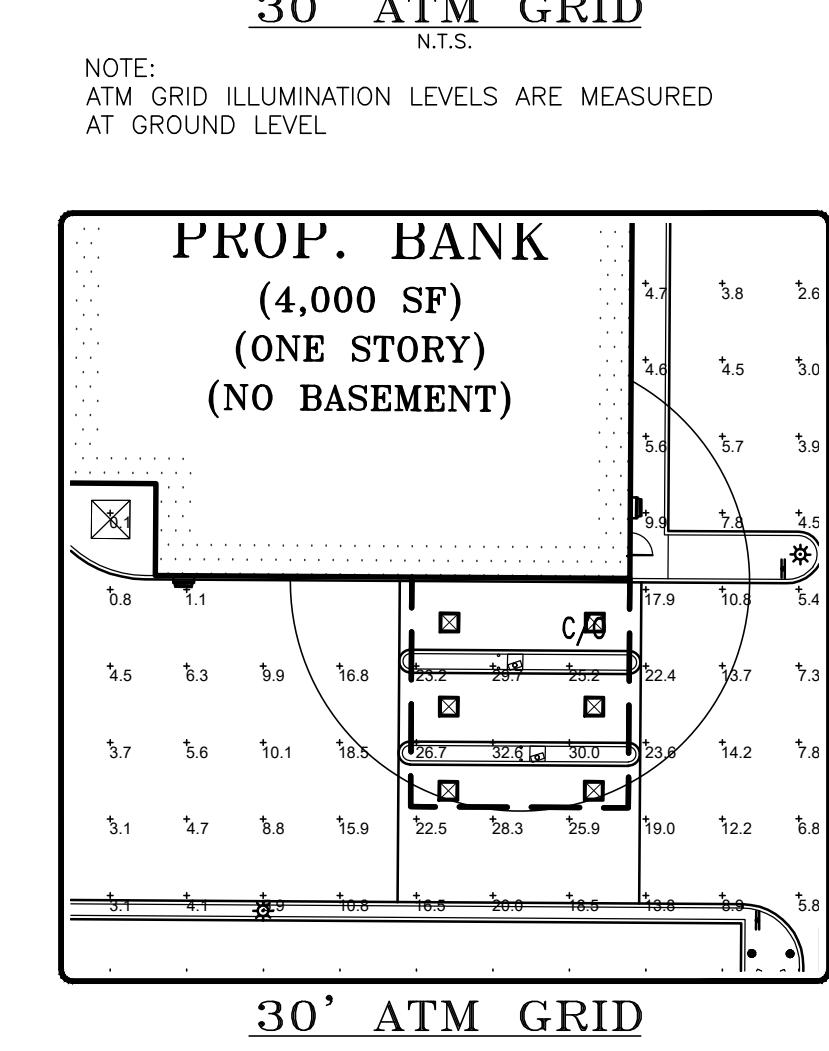
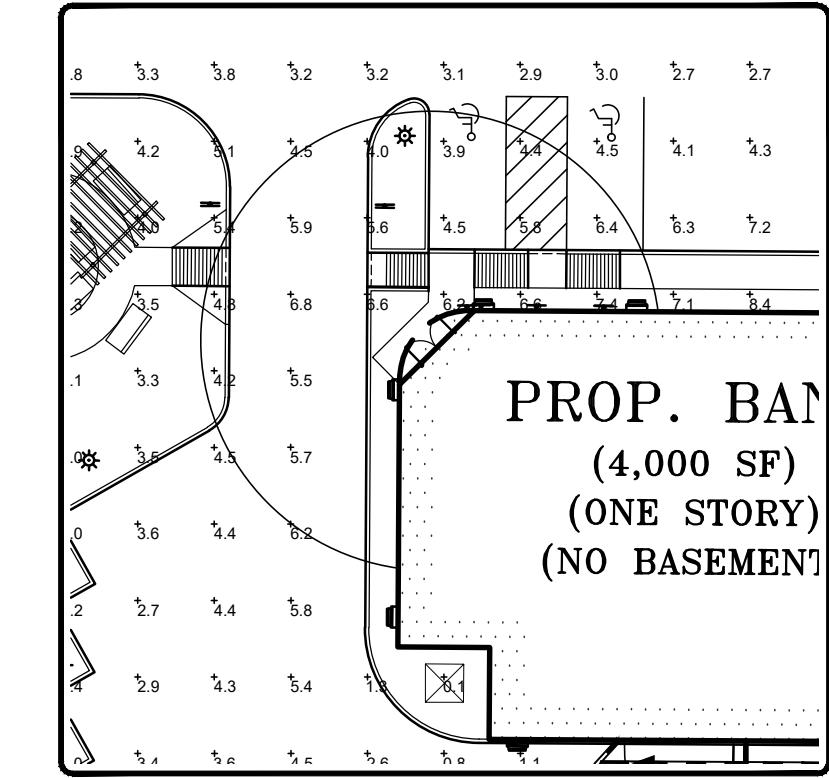
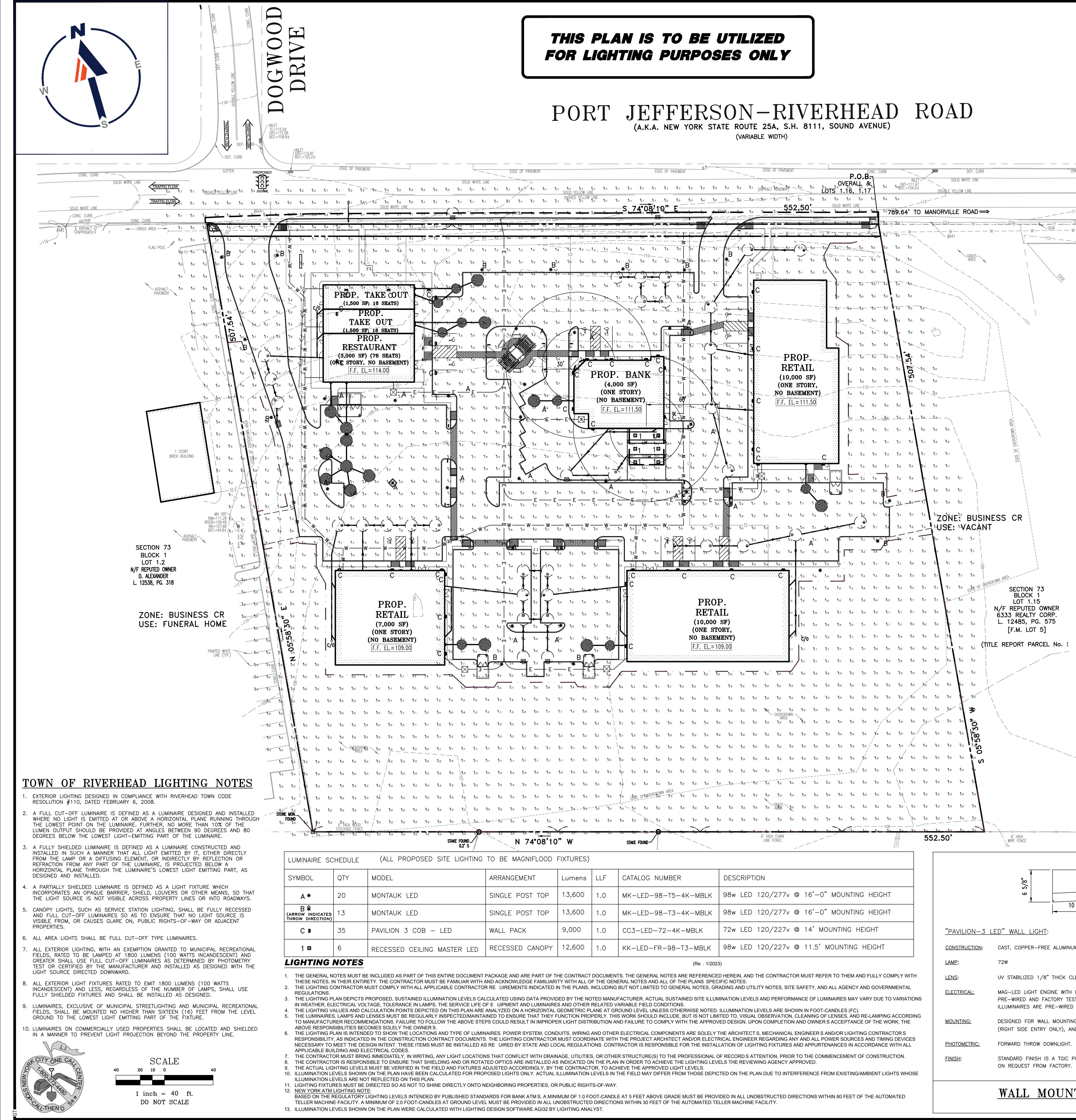


PERENNIALS PLANTING N.T.S.

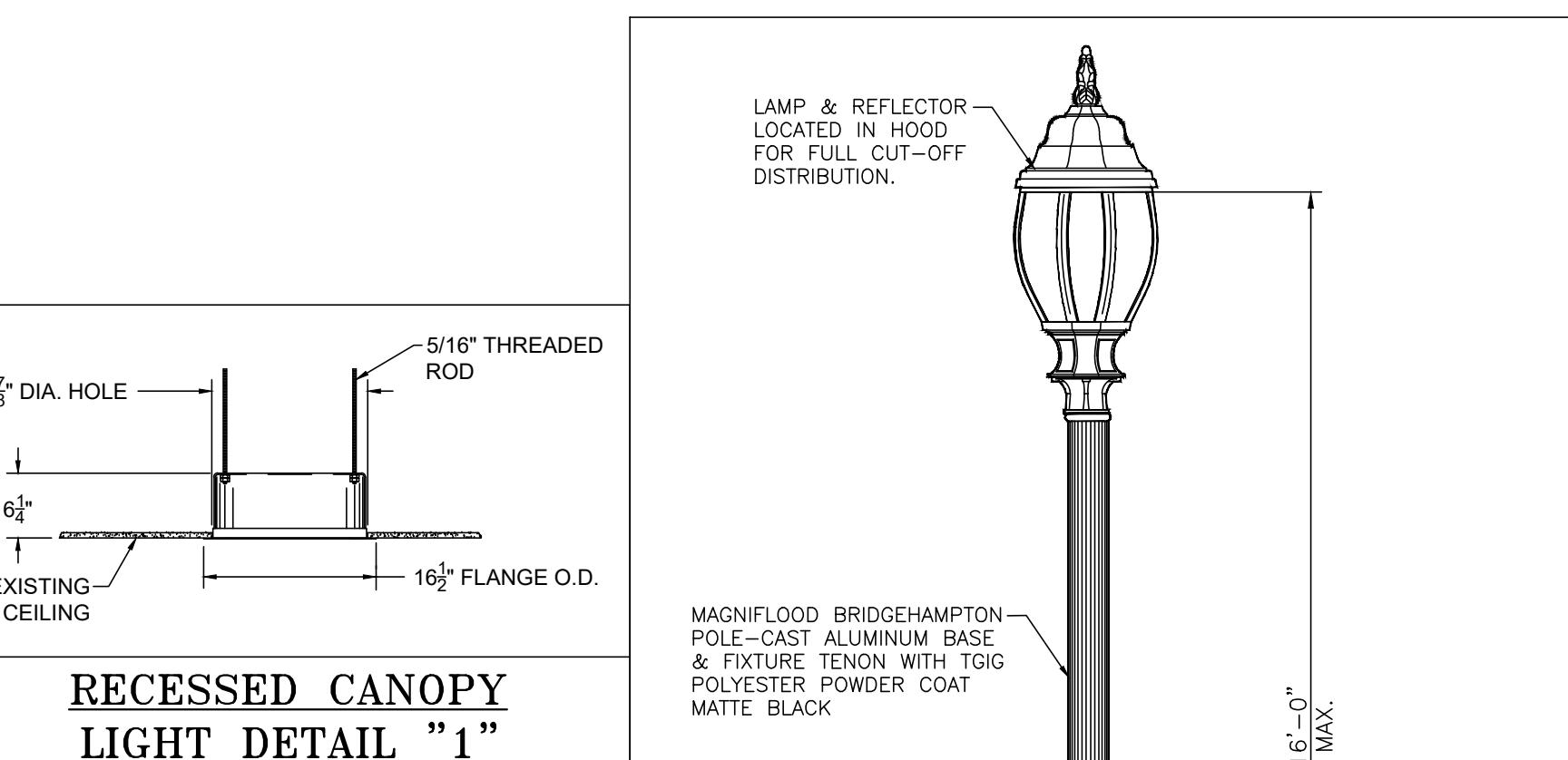


TREE PLANTING DETAIL N.T.S.

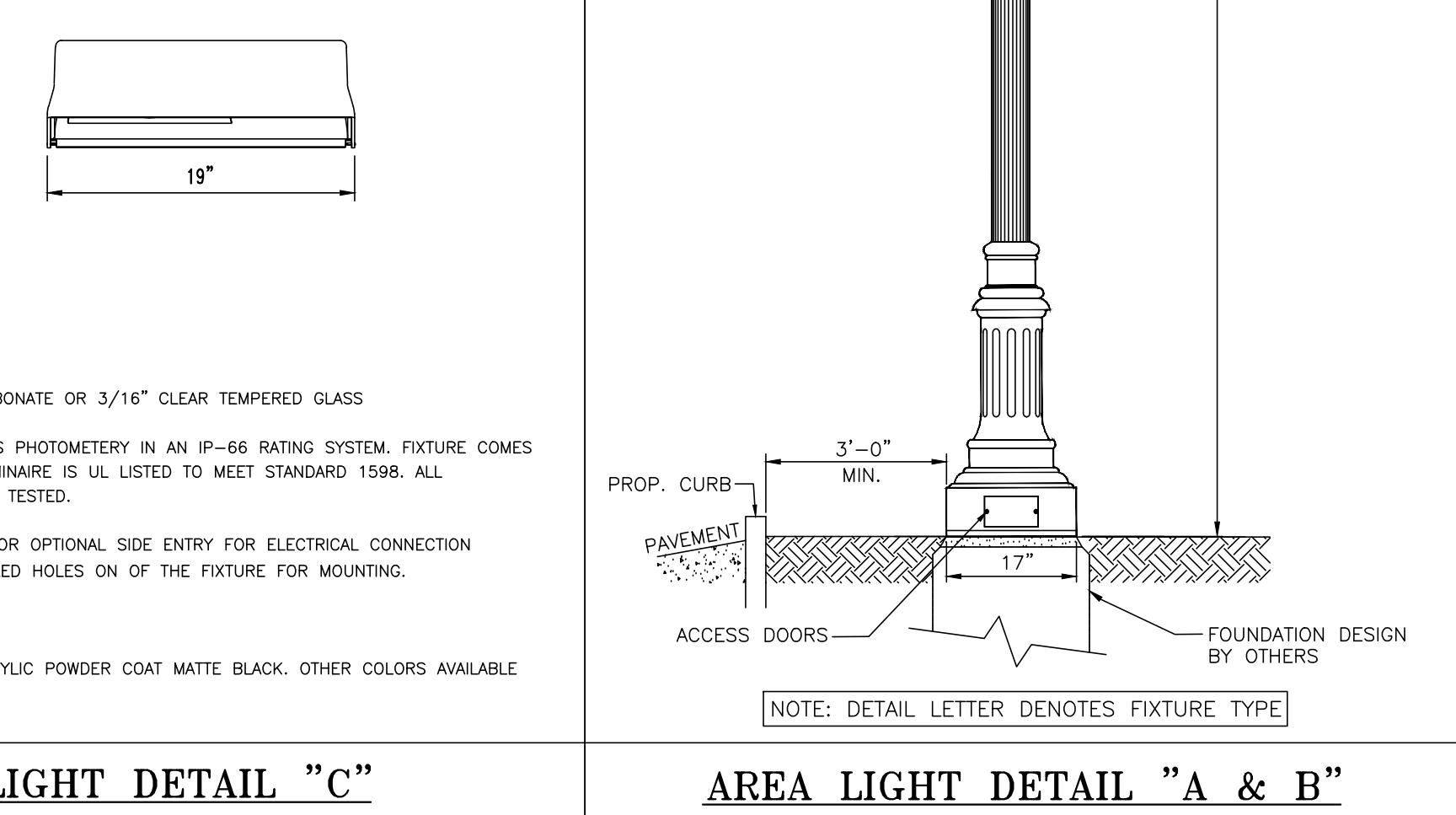




NUMERIC SUMMARY FOR PARKING LOT (EXCLUDING AREA BEHIND DRIVE-THRU CANOPY)						
AREA	CALC TYPE	UNITS	AVG	MAX	MIN	Avg/Min
REQUIRED IN PARKING LOT (SECT. 301 ATT.9-MEDIUM)	ILLUMINANCE	FC	2.40	—	0.60	4.00
PROVIDED IN PARKING LOT	ILLUMINANCE	FC	2.92	11.1	0.80	3.65



**RECESSED CANOPY LIGHT DETAIL "1"**  
N.T.S.



**WALL MOUNTED LIGHT DETAIL "C"**  
N.T.S.

**AREA LIGHT DETAIL "A & B"**  
N.T.S.

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS THE DRAWINGS AND/OR SPECIFICATIONS ARE APPROVED BY A PROFESSIONAL ENGINEER WHERE SUCH ALTERATIONS ARE MADE. THE PROFESSIONAL ENGINEER MUST SIGN, SEAL DATE AND SIGNATORIALLY CERTIFY THE DRAWINGS AND/OR SPECIFICATIONS ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION LAW SECTION 7209-2)

APPROVALS

REVISIONS	
No	Date
1	12/30/09
2	11/18/15
3	9/20/17
4	3/16/18
5	10/18/18
6	12/19/18
7	2/13/22
8	4/8/23
9	8/1/23

**BOHLER**  
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[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

**DALE E. KOCH**  
PROFESSIONAL ENGINEER  
NEW YORK LICENSE NO. 089418

DATE: 09/18/08 DRAWN BY: MD  
SCALE: AS SHOWN CHECKED BY: JPC  
CAD ID: NO8023-SS-90 Project No: NO8029

NOT FOR CONSTRUCTION

NYSDOT CASE #: N/A  
HEALTH DEP. REF. #: N/A

CLIENT/PROJECT: VENEZIA  
SQUARE, LLC c/o  
VENEZIA CORP.

PORT JEFFERSON-RIVERHEAD RD.  
TOWN OF RIVERHEAD  
SUFFOLK COUNTY, NY 11792  
TAX MAP #: 600-73-1-1.4, 1.16-1.19

TITLE:

**LIGHTING PLAN**

SHEET NO. C-12

REV. 9

SUBMISSION SET

CH-100

APPROVALS

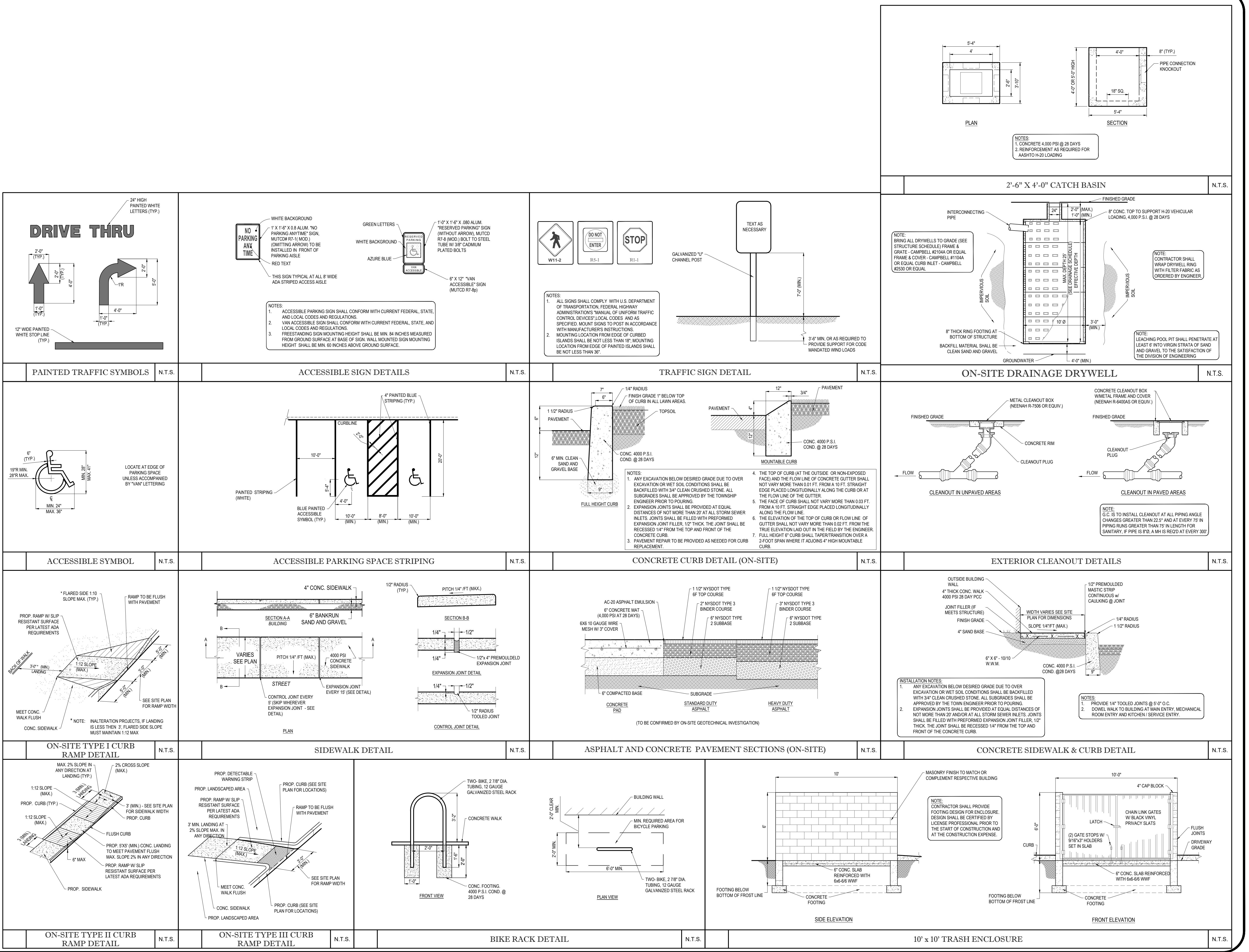
REVISIONS	
No	Date
1	12/30/09
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CLIENT/PROJECT: VENEZIA  
SQUARE, LLC c/o  
VENEZIA CORP.  
PORT JEFFERSON-RIVERHEAD RD.  
(NYS ROUTE 25A)  
TOWN OF RIVERHEAD  
SUFFOLK COUNTY, NY 11792  
TAX MAP #: 600-73-1-1.4, 1.16-1.19  
TITLE: SITE DETAILS  
SHEET NO. C-13 OF 15  
REV. 9  
SUBMISSION SET C-13





APPROVALS

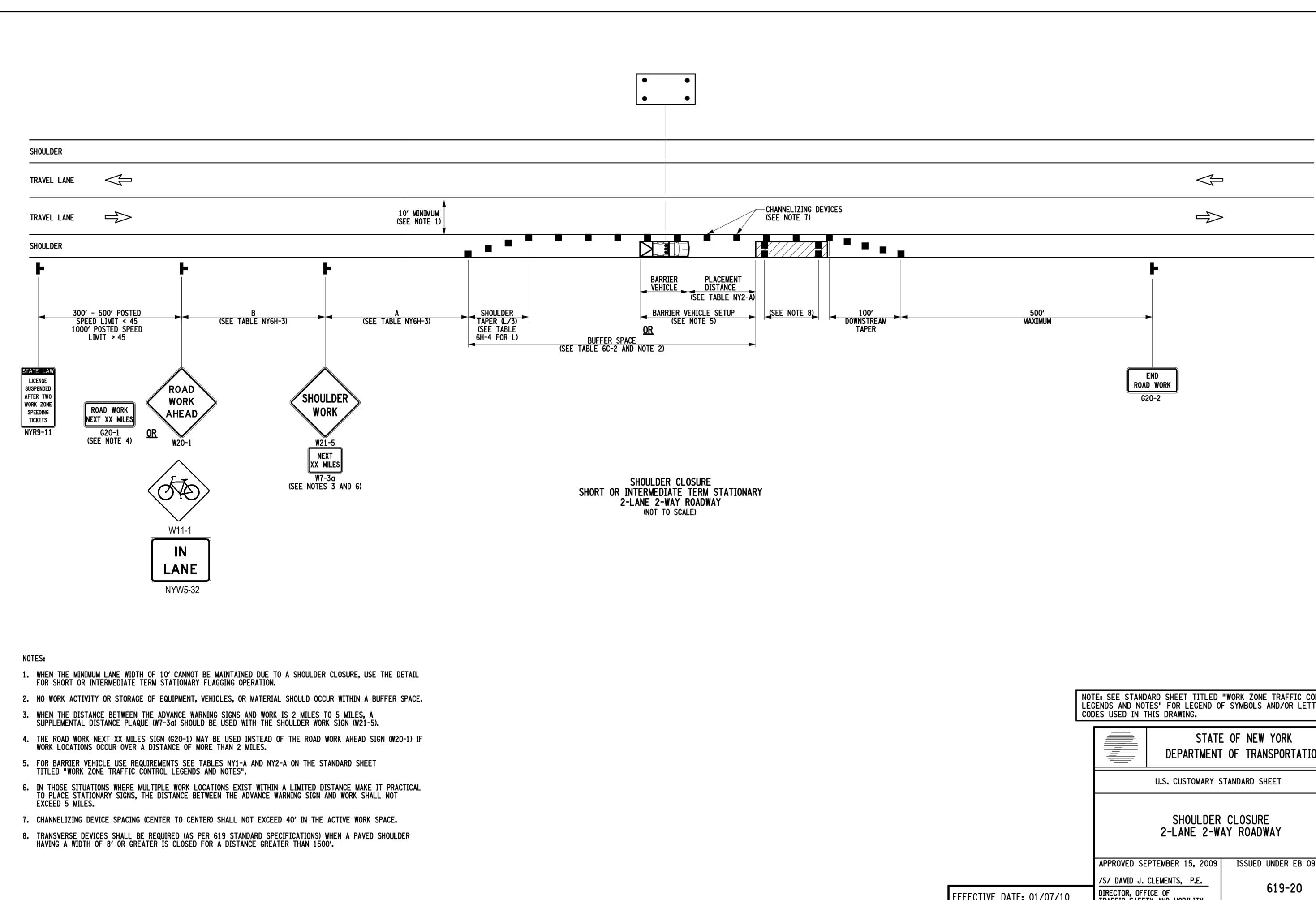


TABLE NY1-A  
BARRIER VEHICLE USE REQUIREMENTS  
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION <sup>1</sup>	USE REQUIREMENTS <sup>4,5</sup>		
		FREEWAY	NON-FREWAY (PRECONSTRUCTION POSTED SPEED LIMIT)	50 MPH 35-40 MPH ≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>
	NON-TRANSLASABLE HAZARD (IE, EQUIPMENT, MATERIALS, CHANNELIZING DEVICES, ETC.)	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>
	NON-TRANSLASABLE HAZARD (IE, EQUIPMENT, MATERIALS, CHANNELIZING DEVICES, ETC.)	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIONITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER PRESENT, WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER).

2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE CLOSURE, THE BARRIER VEHICLE SHALL BE MOVED TO THE NEW LOCATION. THE BARRIER VEHICLES PROTECTING NON-TRANSLASABLE HAZARDS SHALL REMAIN IN PLACE DURING THE WORK. THE BARRIER VEHICLES PROTECTING THE HAZARD AND THE BARRIER VEHICLE PROTECTING THE WORK AREA SHALL BE MOVED AS APPROPRIATE. THE BARRIER VEHICLE SHOULD BE POSITIONED AS CLOSE AS POSSIBLE TO THE HAZARD. THESE REQUIREMENTS SHALL BE MADE AS APPROPRIATE FOR THE HAZARD AND THE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF THE WORK AREA.

4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND RAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS  
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

SPEED LIMIT (MPH)	TAPER LENGTH (ft)					
	140 MPH OR LESS	L = $W^2/60$	140 MPH	145 MPH	150 MPH	155 MPH
140 MPH OR LESS	L = $W^2/60$	100	110	120	130	140
145 MPH OR MORE	L = 5	250	275	300	325	350

L = TAPER LENGTH  
W = WIDTH OF OFFSET (ft)  
S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

TABLE 6C-3  
TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (ft)	
	MERGING TAPER	L/2
SHOULDER TAPER	L/3	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT. MAXIMUM	100 FT. MAXIMUM
DOWNTREAM TAPER	100 FT. PER LANE	100 FT. PER LANE

TABLE 6C-2  
LONGITUDINAL BUFFER SPACE

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE		
	30 MPH	40 MPH	50 MPH
25 MPH	155 FT.	200 FT.	250 FT.
30 MPH	190 FT.	230 FT.	280 FT.
40 MPH	205 FT.	250 FT.	300 FT.
50 MPH	225 FT.	275 FT.	325 FT.
65 MPH	275 FT.	325 FT.	380 FT.
85 MPH	340 FT.	400 FT.	460 FT.
100 MPH	400 FT.	480 FT.	550 FT.
120 MPH	460 FT.	550 FT.	640 FT.

TABLE NYH-3  
ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS (ft)			SIGN LEGEND
	A (ft)	B (ft)	C (ft)	XX YY
URBAN (≤ 30 MPH)	100	100	100	AHEAD AHEAD
URBAN (35-40 MPH)	200	200	200	AHEAD AHEAD
URBAN (≥ 45 MPH)	350	350	350	1000 FT. AHEAD
RURAL	500	500	500	1000 FT. AHEAD
EXPRESSWAY/FREWAY	1000	1500	2640	1 MILE, 1/2 MILE

\* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:  
BARRIER VEHICLE - VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND STATIONARY WORK ZONES.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-A  
PLACEMENT DISTANCE FOR BARRIER VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (ft)		
	18,000 LBS. 18,000 LBSJ	24,000 LBS. 24,000 LBSJ	30,000 LBS. 30,000 LBSJ
< 55 MPH	100 FT.	100 FT.	100 FT.
45 - 55 MPH	100 FT.	100 FT.	100 FT.
> 45 MPH	100 FT.	100 FT.	100 FT.

\* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:  
SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B  
PLACEMENT DISTANCE FOR SHADOW VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (ft)			SHADOW VEHICLE
	18,000 LBS. 18,000 LBSJ	24,000 LBS. 24,000 LBSJ	30,000 LBS. 30,000 LBSJ	SHADOW VEHICLE
< 55 MPH	100 FT.	100 FT.	100 FT.	100 FT.
45 - 55 MPH	100 FT.	100 FT.	100 FT.	100 FT.
> 45 MPH	100 FT.	200 FT.	150 FT.	100 FT.

\* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619:  
SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

WORK DURATION DEFINITIONS

LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.

INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAY/LIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR MORE THAN 1000 FT. OF ROADWAY LENGTH.

SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR IN A SINGLE DAY/LIGHT PERIOD.

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
U.S. CUSTOMARY STANDARD SHEET  
SHOULDER CLOSURE  
2-LANE 2-WAY ROADWAY

APPROVED SEPTEMBER 18, 2008 ISSUED UNDER EB 08-036  
/S/ DAVID J. CLEMENTS, P.E.  
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY  
EFFECTIVE DATE: 01/08/09 619-11

GENERAL NOTES

1. THE TECHNICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIGHWAY SUPERVISOR. THE CONTRACTOR SHALL NOT MAKE ANY CHANGES IN THE TRAFFIC CONTROL PLAN, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT MAKE ANY CHANGES IN THE TRAFFIC CONTROL PLAN, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN, PRIOR TO THE DESCRIBED THIRTY (30) WORK DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND PHONE NUMBERS OF THE CONTRACTOR'S SUBCONTRACTORS, LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE CONTRACTOR WILL PROVIDE THE SUBMITTED INFORMATION TO THE REGIONAL DIRECTOR AND THE LOCAL POLICE.
4. ACTIVITY AREA

  1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 8' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL NOT PLACE ANY CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
  3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
  4. ALL WORKING AREA BARRIER SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTILANE DIVIDED HIGHWAYS, MULTILANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
  5. SIGNS LOCATED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRELS IS IN PLACE IN A HORIZONTAL POSITION IS NOT PERMITTED.
  6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
  7. NY9-12 MAY BE USED IN PLACE OF NY9-11.

CHANNING DEVICES

  1. WHERE POSSIBLE ALL CHANNELIZING AND DIVIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.
  2. PUBLIC ACCESS

    1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY FOR MULTIPLE ACCESS PURPOSES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
    2. DRIVEWAYS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

    1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E., BEFORE CURVES AND CRISTS, TO THE EXTENT CONDITIONS PERMIT.
    2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

    1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'; THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
    2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 DAYS PRIOR TO THE WORK BEGUN, OF THE EXACT LANE WIDTHS TO BE USED. THE CONTRACTOR SHALL NOT USE A LANE CLOSURE SIGN OR ROAD NARROWS SIGN (W5-4), MAY BE USED TO CONTROL VEHICULAR TRAFFIC AND DIVIDE LANE WIDTHS.

NOTES:  
1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.  
2. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND TEMPORARY IMPACT ATTENUATOR SHOULD BE USED TO SEPARATE TEMPORARY SIDEWALKS FROM MOTORIST TRAFFIC.  
3. SIDEWALK DIVERSIONS, SIDEWALK CLOSURES, AND SIGN, OTHER DEVICES, SUCH AS LANE CLOSURE SIGN OR ROAD NARROWS SIGN (W5-4), MAY BE USED TO CONTROL VEHICULAR TRAFFIC AND DIVIDE LANE WIDTHS.  
4. FOR NIGHTTIME CLOSURES, FLASHING WARNING LIGHTS SHALL BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.  
5. SIGNS SUCH AS KEEP RIGHT (LEFT) SHALL BE PLACED ALONG A TEMPORARY SIDEWALK, WHERE APPROPRIATE AND ACCORDING TO AMERICAN WITH DISABILITIES STANDARDS, TO GUIDE OR DIRECT PEDESTRIANS.  
6. TYPE II BARRICADES MAY BE SUBSTITUTED FOR TYPE III BARRICADES AS PER 619 STANDARD SPECIFICATIONS.

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
U.S. CUSTOMARY STANDARD SHEET  
SIDEWALK DIVERSION  
SHORT, INTERMEDIATE, OR LONG TERM STATIONARY  
2-LANE 2-WAY ROADWAY  
NOT TO SCALE

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

APPROVED SEPTEMBER 15, 2009 ISSUED UNDER EB 09-025  
/S/ DAVID J. CLEMENTS, P.E.  
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY  
EFFECTIVE DATE: 01/07/10 619-50

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

    1. MAINTENANCE AND PROTECTION OF TRAFFIC TO INVOLVE AN EAST BOUND SHOULDER CLOSURE ON NY 25A. THE SITE IS LOCATED BETWEEN NYSDOT MILE MARKER 25 0703 1417 AND 25 0703 1416.
    2. MAINTENANCE AND PROTECTION OF TRAFFIC SCHEMES ARE TO BE IN ACCORDANCE WITH THE FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NEW YORK STATE SUPPLEMENT TO THE FEDERAL MUTCD, DATED MARCH 2008. PLEASE NOTE, NY SIGN DESIGNATIONS ARE SHOWN ABOVE WITH CORRESPONDING FEDERAL SIGN DESIGNATIONS SHOWN IN PARENTHESES.
    3. THE USE, DESIGN, SPACING AND LOCATION OF SIGNS, FLAG MEN, DRUMS, BARRICADES, FLASHING BEACONS, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE FEDERAL MUTCD.
    4. THE MINIMUM MAINTENANCE AND PROTECTION OF TRAFFIC PLAN DOES NOT RELEASE THE CONTRACTOR FROM HIS RESPONSIBILITY TO SAFELY MAINTAIN AND PROTECT TRAFFIC IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS. OTHER TRAFFIC CONTROL DEVICES ABOVE AND BEYOND THOSE SHOWN ON THIS PLAN MAY BE REQUIRED TO MAINTAIN AND PROTECT TRAFFIC OR AGLE.
    5. DRUMS, BARRICADES OR OTHER TRAFFIC CONTROL EQUIPMENT SHALL NOT REMAIN IN A LOCATION WHERE THEY INTERFERE WITH, OR MAY BE DISTURBED BY, A SNOW PLOWING OPERATION. THE WORK MUST BE SCHEDULED TO AFFORD THE SAFE REMOVAL OF SUCH DEVICES WHEN NECESSARY.
    6. DRAINAGE FRAMES, GRATES AND COVERS SHALL NOT BE ADJUSTED IN A TRAVEL LANE, UNLESS THE FINAL POSITION COURSE IS PLACED PRIOR TO THE ONSET OF SNOW AND ICE WEATHER. STEEL PLATES, ETC. SHALL NOT PROTRUDE ABOVE THE ADJACENT PAVEMENT. IF ANY OF THESE PROTRUSIONS EXIST IN A NON-TRAVEL LANE PRIOR TO A SNOW AND ICE CONDITION, THEN TEMPORARY RAMP ALLEYS MUST BE PLACED SO THAT FOR EVERY ONE INCH OF RISE, THERE IS A SIX FOOT RUN OF RAMP.
    7. IN ADDITION TO THE SIGNAGE REQUIRED IN THE FEDERAL MUTCD AND NY'S SUPPLEMENT, THE CONTRACTOR SHALL USE A FLASHING ARROW BOARD AS ORDERED BY ENGINEER.
    8. THE CONTRACTOR SHALL PROVIDE FLAGGERS WHEN SIGHT DISTANCES ARE IMPAIRED BY HIS OPERATION OR AGLE.
    9. THE CONTRACTOR SHALL NOT PARK HIS EQUIPMENT OR STORE MATERIAL OVERNIGHT WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD TO TRAFFIC. STORAGE WITHIN THE NYSDOT RIGHT-OF-WAY WILL NOT BE PERMITTED.
    10. THE CONTRACTOR IS ADVISED THAT NO PAVEMENT EDGE DROP-OFFS WILL BE PERMITTED WITHIN ELEVEN (11) FEET OF TRAVEL LANES. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SO THAT ALL EXCAVATED WORK AREAS SHALL BE BACKFILLED TO GRADE AT CONCLUSION OF THE WORK DAY.
    11. THE CONTRACTOR SHALL NOT RESTRICT THE INGRESS/EGRESS REQUIRED FOR DRIVEWAYS ALONG NY 25A.
    12. ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10 AM AND AFTER 3 PM. NO LANE CLOSURES ARE PERMITTED ON WEEKENDS OR HOLIDAYS. NIGHTTIME CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.
    13. ANY UTILITY WORK PROPOSED IN STATE HIGHWAY RIGHT-OF-WAY WILL REQUIRE A SEPARATE APPLICATION AND SUBMISSION OF UTILITY PLANS TO OUR MAINTENANCE FACILITY AT CENTRAL ISLIP.

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
U.S. CUSTOMARY STANDARD SHEET  
WORK ZONE TRAFFIC CONTROL  
GENERAL NOTES

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/S/ DAVID J. CLEMENTS, P.E.  
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY  
EFFECTIVE DATE: 01/08/09 619-10