

TEMPORARY SEDIMENT BASIN (POND A)  
TOP EL. = 190.0  
BOTTOM EL. = 182.00  
RISER HEIGHT = 187.00

MAXIMUM DRAINAGE AREA TO SEDIMENT TRAP = 2 ACRES

REQUIRED SEDIMENT STORAGE VOLUME  
7,236 CF  
SEDIMENT CLEANOUT VOLUME  
1,618 CF (EL 185.70)

DISTURBED SOIL WITHIN BASIN MUST BE STABILIZED  
WITH MULCH AND SEED PRIOR TO RECEIVING RUNOFF

TEMPORARY SEDIMENT BASIN (POND B)  
TOP EL. = 182.0  
BOTTOM EL. = 174.00  
RISER HEIGHT = 178.00

MAXIMUM DRAINAGE AREA TO SEDIMENT TRAP = 5.28 ACRES

REQUIRED SEDIMENT STORAGE VOLUME  
19,100 CF  
SEDIMENT CLEANOUT VOLUME  
9,550 CF (EL 178.00)

DISTURBED SOIL WITHIN BASIN MUST BE STABILIZED  
WITH MULCH AND SEED PRIOR TO RECEIVING RUNOFF

#### SUGGESTED CONSTRUCTION PHASING:

**PHASE I** - EXCAVATE STORMWATER BASIN, INSTALL UTILITIES (SANITARY SEWER, WATER, STORM SEWER INCLUDING RCP OVERLAYS), COMPLETE ROADWAY EXCAVATION AND SUBGRADE AND INSTALL SUBBASE COURSE, STABILIZE AND SEED NON-PAVEMENT AREAS. (ESTIMATED SOIL DISTURBANCE = 2 ACRES, DURATION OF DISTURBANCE: 60 - 90 DAYS)

**PHASE II** - INSTALL UTILITIES (SANITARY SEWER, WATER, STORM SEWER), COMPLETE GRADING IN BUILDING PAD AREAS, COMPLETE ROADWAY SUBGRADE AND INSTALL SUBBASE COURSE, STABILIZE AND SEED NON-PAVEMENT AREAS, INCLUDING BUILDING PAD AREAS UNTIL BUILDING FOUNDATION EXCAVATION COMMENCES (ESTIMATED SOIL DISTURBANCE = 1.8 ACRES, DURATION OF DISTURBANCE: 30 DAYS)

**PHASE III** - CONSTRUCT WETLAND MITIGATION AREA, EXCAVATE STORMWATER BASIN, EXCAVATE SAND FILTER AREA AS WET POND (NO FILTER COMPONENTS INSTALLED), INSTALL UTILITIES (SANITARY SEWER, WATER, STORM SEWER INCLUDING RCP OVERLAYS), COMPLETE GRADING IN BUILDING PAD AREAS, COMPLETE ROADWAY SUBGRADE AND INSTALL SUBBASE COURSE, STABILIZE AND SEED NON-PAVEMENT AREAS, INCLUDING BUILDING PAD AREAS UNTIL BUILDING FOUNDATION EXCAVATION COMMENCES (ESTIMATED SOIL DISTURBANCE = 1.5 ACRES, DURATION OF DISTURBANCE: 30 - 60 DAYS)

**PHASE IV** - INSTALL UTILITIES (SANITARY SEWER, WATER, STORM SEWER), COMPLETE GRADING IN PARKING AREA AND BUILDING PAD AREAS, COMPLETE ROADWAY SUBGRADE AND INSTALL SUBBASE COURSE, STABILIZE AND SEED NON-PAVEMENT AREAS, INCLUDING BUILDING PAD AREAS UNTIL BUILDING FOUNDATION EXCAVATION COMMENCES (ESTIMATED SOIL DISTURBANCE = 1.5 ACRES, DURATION OF DISTURBANCE: 30 - 60 DAYS)

**PHASE V** - INSTALL UTILITIES (SANITARY SEWER, WATER, STORM SEWER), COMPLETE GRADING IN BUILDING PAD AREAS, COMPLETE ROADWAY SUBGRADE AND INSTALL SUBBASE COURSE, STABILIZE AND SEED NON-PAVEMENT AREAS, INCLUDING BUILDING PAD AREAS UNTIL BUILDING FOUNDATION EXCAVATION COMMENCES (ESTIMATED SOIL DISTURBANCE = 2.5 ACRES, DURATION OF DISTURBANCE: 60 - 90 DAYS)

**ALL NON-PAVEMENT AREAS SHALL BE SEEDING AND MULCHED TO ESTABLISH VEGETATIVE COVER (TEMPORARY OR PERMANENT) AS GRADING OPERATIONS ARE COMPLETED DURING THE PROJECT PROGRESS. SEEDING PLANTINGS (STREET TREES, STORMWATER BASINS) SHALL OCCUR AT OPTIMUM PLANTING TIMES (SPRING/FALL) TO ENSURE PROPER ESTABLISHMENT OF VEGETATION.**

**AT NO TIME SHALL MORE THAN 5 (FIVE) ACRES REMAIN UNSTABILIZED AT ANY ONE TIME.**

**BUILDING CONSTRUCTION GENERALLY IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:**

- PHASE II
- PHASE III (FRONT)
- PHASE IV (REAR)

**COMMERCIAL BUILDINGS CONSTRUCTED AS DEMAND DICTATES.**

#### CONSTRUCTION SEQUENCE (APPLICABLE TO EACH PHASE):

1. ESTABLISH PERIMETER SILT FENCING, WETLAND BARRIERS, AND STABILIZED CONSTRUCTION ENTRANCE.
2. CONSTRUCT TEMPORARY HAUL ROADS TO DETENTION POND/MITIGATION AREAS.
3. CONSTRUCT DETENTION BASINS AND WETLAND MITIGATION AREAS, ESTABLISH VEGETATIVE COVER.
4. BEGIN ROUGH GRADING OF ROADWAY ALIGNMENTS AND BUILDING PAD AREAS, TAKING CARE TO ESTABLISH TEMPORARY SWALES TO EXISTING ROADWAY SUBGRADE AND BUILDING PAD AREAS AS WORK PROGRESSES; STABILIZE INTERNAL ROADWAY AREAS WITH SUBBASE COURSE AS NECESSARY.
5. INSTALL SEWER LINES, STORM DRAINAGE SYSTEM AND WATER LINES. INSTALL DROP INLET SEDIMENT TRAPS AND CHECK DAMS IN DRAINAGE FLOW LINES.
6. COMPLETE SUBGRADE EXCAVATION, CONSTRUCT BASE COURSE, STABILIZE WITH SUB ROADWAY.
7. COMPLETE GRADING IN BUILDING AREAS, STABILIZE GRADED AREAS WITH TEMPORARY SEEDING AND MULCHING. INSTALL SILT FENCING ALONG NEW ROADWAY EDGE UNTIL AREAS ARE STABILIZED.
8. CONTINUE INSPECTION AND MAINTENANCE OF SITE AND EROSION/SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF THE CONSTRUCTION.

#### EROSION CONTROL GENERAL NOTES:

1. THIS PROJECT IS AUTHORIZED UNDER NYS PERMIT GP-0-10-001.
2. ANY CONTRACTOR INVOLVED IN EARTHWORK ACTIVITIES, INCLUDING BUT NOT LIMITED TO: CLEARING, GRADING AND TRUCKING, SHALL REVIEW ALL PERMIT CONDITIONS AND CERTIFY UNDERSTANDING OF THESE CONDITIONS. IN WRITING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ALL EROSION CONTROL MEASURES DESCRIBED IN GP-0-10-001, AND IT IS NOT THE INTENT OF THESE DRAWINGS TO REPLACE OR DISSEMINATE THE PERMIT REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH THE PERMIT AT ALL TIMES.
3. AT NO TIME SHALL MORE THAN FIVE (5) ACRES REMAIN UNSTABILIZED. THE CONTRACTOR SHALL COORDINATE EARTHWORK ACTIVITIES AND IMPLEMENTATION OF SOIL STABILIZATION MEASURES TO ENSURE COMPLIANCE TO THIS PERMIT REQUIREMENT.
4. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION AND EQUIPMENT ENTRANCE WHENEVER PRACTICABLE.
5. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OR SUSPENSION OF GRADING OPERATIONS.

#### TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (see the BLUE BOOK) EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. IT IS THE INTENT OF THESE PLANS AND NOTES TO BE USED AS A GUIDE BY THE CONTRACTOR TO ENSURE THAT NO ERODED MATERIAL ENTERS ANY WATER COURSE OR ENTERS ANY WATER COURSE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THIS GOAL IS MET, BY IMPLEMENTING THESE PLANS AND ANY ADDITIONAL MEANS THAT MAY BE NECESSARY. FURTHER MEASURES MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EROSION CONTROL DEVICES. DURING THE CONSTRUCTION PERIOD, THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION: A. SILT FENCING SHALL BE INSPECTED FOR UNDETERMINED AND DEGRADATION. B. SEEDING/MULCHED AREAS SHALL BE INSPECTED TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.
3. THE DEVELOPER/CONTRACTOR OR HIS BUILDER SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT THROUGH THE ENTIRE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED TO GOOD CONDITION AND REPAIRED, RE-SEEDING AND PROTECTED FROM FURTHER EROSION. ALL SEDIMENT ACCUMULATED SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPILL AREAS. WATER SHALL BE APPLIED TO NEWLY SEED AREAS AS NECESSARY. SEEDING SHALL BE MAINTAINED DURING THE PERIODIC INSPECTIONS. THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION: A. SILT FENCING SHALL BE INSPECTED FOR UNDETERMINED AND DEGRADATION. B. SEEDING/MULCHED AREAS SHALL BE INSPECTED TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.
4. EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL THE CITY, VILLAGE OR TOWN ENGINEER HAS APPROVED FINAL STABILIZATION.
5. SILT FENCE AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THESE DETAIL SHEETS AND SECTION 7A OF THE BLUE BOOK.
6. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.
7. CONSTRUCTION TRAFFIC SHALL NOT CROSS STABLES OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES. EQUIPMENT SHALL NOT OPERATE UNNECESSARILY WITHIN WATERWAYS OR DRAINAGE DITCHES.
8. EXISTING PAVEMENT AREAS SHALL BE CLEANED AT THE DIRECTION OF THE CITY, VILLAGE, OR TOWN ENGINEER.
9. WATER TRUCKS SHALL BE USED TO MINIMIZE DUST POLLUTION ON SITE, AND ON ADJACENT ROADWAY AREAS AS DIRECTED BY THE CITY, VILLAGE, OR TOWN ENGINEER.
10. ANY WATER PUMPED AS A RESULT OF Dewatering ACTIVITIES SHALL BE PUMPED INTO A Dewatering PIT.
11. CONCRETE WASHOFF AREAS SHALL BE DESIGNATED BY THE DEVELOPER OR CONTRACTOR AND PROTECTED IN ACCORDANCE WITH GP-0-10-001.
12. ALL AREAS DISTURBED IN THE CONSTRUCTION PROCESS SHALL BE STABILIZED WITH SEED AND MULCH NO MORE THAN 14 DAYS AFTER THE COMPLETION OF WORK IN THAT AREA. IT MAY BE NECESSARY TO SEED AND MULCH SOME AREAS SEVERAL TIMES TO MEET THIS REQUIREMENT.
13. IT IS RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE PLACED FOR THE ENTIRE PHASE AS SHOWN ON THE EROSION CONTROL PLAN.
14. STOCK PILES SHALL BE PROTECTED BY SILT FENCE PER GP-0-10-001. THESE DEVICES SHALL BE MAINTAINED IN GOOD CONDITION UNTIL SAID STOCK PILES ARE REMOVED AND STOCK PILING PLACES ARE PERMANENTLY STABILIZED.
15. STOCK PILES SHALL BE SEEDING UPON SUSPENSION OF WORK OR IF MATERIAL IS NOT TO BE USED WITHIN 14 DAYS, IN ACCORDANCE WITH GP-0-10-001.
16. IN NO CASE SHALL EROSION MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.
17. SILT FENCING SHALL BE INSTALLED AT THE PERIMETER OF ALL SLOPES TO BE GRADED, PRIOR TO GRADING OPERATIONS.
18. CLEARING OPERATIONS SHALL BE LIMITED TO ACTIVE WORK AREAS.
19. CARE SHALL BE TAKEN TO PRESERVE AS MUCH EXISTING VEGETATION AS POSSIBLE AND HEALTHY TREES OF DESIRABLE SPECIES SHALL BE PROTECTED.
20. WHEN RUNOFF IS COLLECTED AND FLOW IS CONCENTRATED IN A SWALE OR DRAINAGE DITCH, THEN CHECK DAMS SHALL BE INSTALLED TO REDUCE VELOCITY UNTIL THE SWALE AND THE AREA DRAINING TO THE SWALE ARE STABILIZED. SEDIMENT SHALL BE REMOVED FROM THE DAM AS NEEDED TO ALLOW THE CHANNEL TO SPAN THROUGH THE DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM.

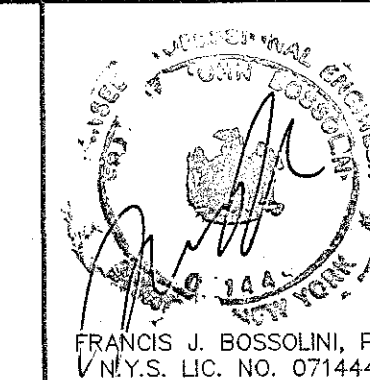
#### CONSTRUCTION SEQUENCE NOTES:

- A) TEMPORARY EROSION CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS. TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES INCLUDE SILT FENCING, DETENTION BASINS, WETLAND MITIGATION AREAS, TEMPORARY SEEDING AND MULCHING, AND PERMANENT SEEDING OF DISTURBED AREAS. USE OF MULCH COVER AND EROSION CONTROL MATTING ON EXPOSED AREAS, AND INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCES IN ACCORDANCE WITH THE NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, THERE SHALL NOT BE MORE THAN FIVE (5) ACRES OF DISTURBED SOIL AT ANY ONE TIME.
- B) CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES AS REQUIRED. CONSTRUCTION WILL BE PHASED TO BUILD TEMPORARY DETENTION AREAS PRIOR TO PAVED AREAS, ALLOWING DIRECTION OF RUNOFF FROM UNSTABILIZED AREAS TO DETENTION BASIN.
- C) CONTRACTOR TO CONSTRUCT TOWN ROADS AND ASSOCIATED UTILITIES, INCLUDING WATER, SANITARY SEWER AND STORM SEWER LINES. CONSTRUCTION OF TOWN ROADS SHALL BE STABILIZED. SILT FENCING SHALL BE INSTALLED ALONG ROADWAY TO PREVENT SEDIMENT FROM ENTERING THE CLOSED DRAINAGE NETWORK WITHIN THE ROADWAY. PRIOR TO STABILIZING CONNECTION TO THE STORM SEWER SYSTEM, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
- D) IMMEDIATELY FOLLOWING COMPLETION OR SUSPENSION OF CONSTRUCTION ACTIVITIES OR WITHIN 14 DAYS IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- E) UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THE REMOVAL.

LEGEND	
PROPERTY LINE	---
EXISTING GAS VALVE	GV
EXISTING WATER VALVE	WV
EXISTING HYDRANT	HD
EXISTING UTILITY POLE	UPO
EXISTING SIGN	S
EXISTING CATCH BASIN	CB
EXISTING SANITARY MANHOLE	SM
EXISTING SANITARY SEWER	SS
EXISTING STORM SEWER	SSW
EXISTING WATERMAIN	WM
EXISTING TREE	T
EXISTING OVERHEAD WIRE	OW
EXISTING CONTOUR	420
PROPOSED CONTOUR	420
WETLAND BOUNDARY	---
EXISTING TREELINE	---
PROPOSED CLEARING LIMITS	---
PROPOSED SILT FENCE	SF
PROPOSED STORM SEWER	SS
PROPOSED CATCH BASIN	CB
PROPOSED INLET PROTECTION	IP
PROPOSED STONE CHECK DAM	CD

EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1" = 50'

REVISIONS		DATE	BY	REVISIONS
NO.	DATE			REVISIONS
1	8/28/10			ISSUED FOR SIGNATURE
2	8/28/10			TOWN SUBMITTAL
3	8/28/10			TOWN SUBMITTAL
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49	8/28/10			TOWN SUBMITTAL
50	8/28/10			TOWN SUBMITTAL



**EROSION & SEDIMENT CONTROL PLAN**  
**KENDALL SQUARE**  
**LANDS OF WALDENMAIER**  
COUNTY OF ALBANY, STATE OF NEW YORK  
DATE: APRIL 2009  
DRAWN BY: JAH  
CHECKED BY: FJB  
JOB NO. 08-065  
SCALE: AS NOTED  
SHEET 6 OF 8