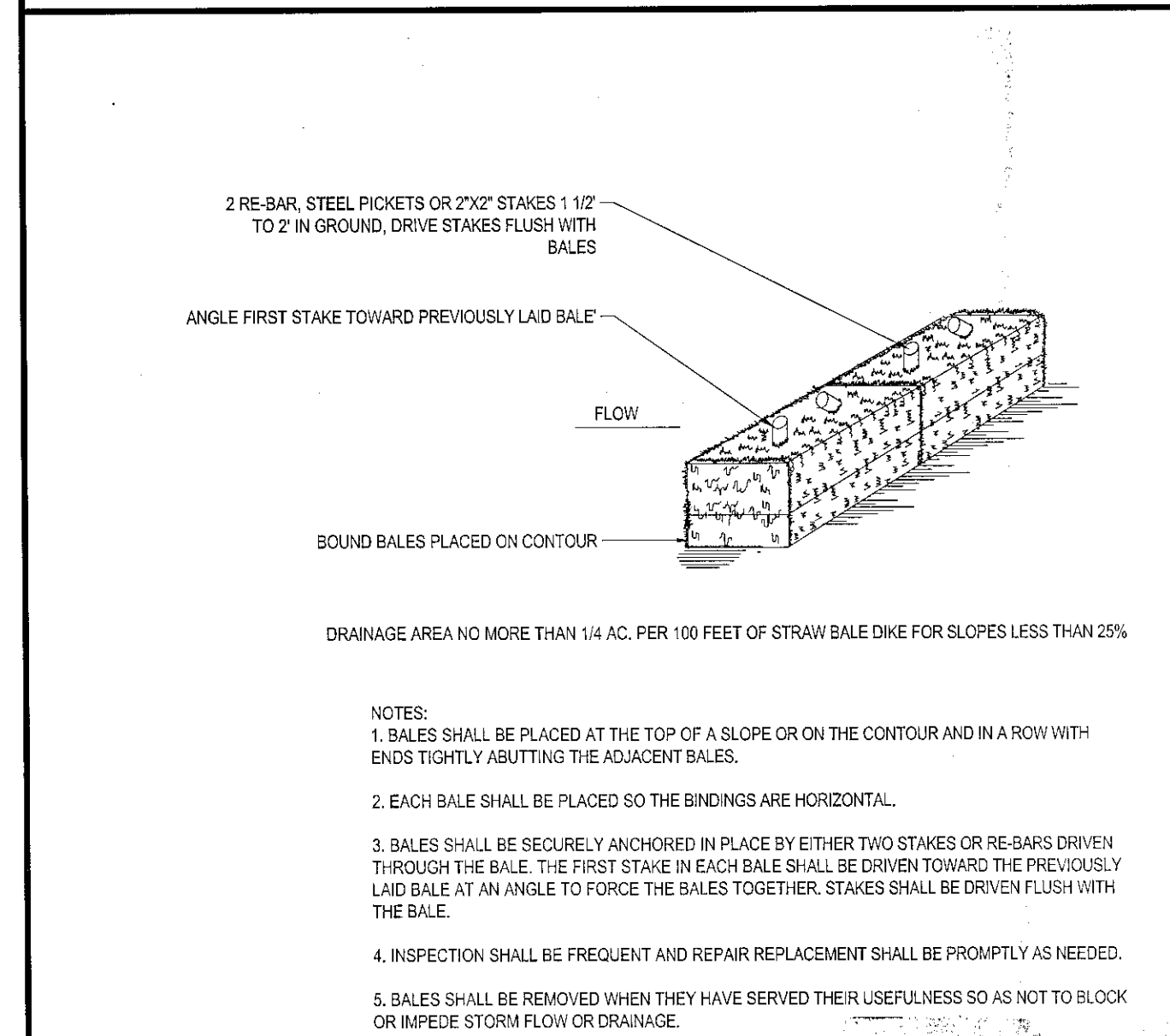


ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.	ANTICIPATED CONSTRUCTION TIMELINE: BEGIN: 1/26/2023 END: 9/22/2023 THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM THE INACTIVE AREAS OF THE SITE SHALL REQUIRE SOIL STABILIZATION WITHIN 14 DAYS. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR RIVER, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).	-INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN) -INSTALLATION OF EROSION CONTROL BARRIERS (HYABBERS AND SILT FENCE) (AS SHOWN)
3. SEDIMENT BARRIERS (SILT FENCE, HAY BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 9%.	-INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN) -DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN) -DEMOLITION OF EXISTING SITE STRAIGHTENED AND ADJACENT (SEE DEMOLITION PLAN)
4. INSTALL SILT FENCE AT JOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT WALLS SHALL REMAIN IN PLACE PER NOTE 1.	-CLEARING AND GRUBBING -INSTALLATION OF TEMPORARY SHALLOWS AND SEDIMENT BASINS -EARTHWORK AND EXCAVATION FINISHES AS NECESSARY
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION, OR DECOMPOSURE. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UP-SLOPE ARE STABILIZED BY TURF.	-CONSTRUCTION OF UTILITIES -STABILIZE PERMANENT LAND AREAS AND SLOPES WITH TEMPORARY SEEDING -INSTALLATION OF INLET PROTECTION ON ON-SITE UTILITIES (AS SHOWN)
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1).	-CONSTRUCTION OF BUILDINGS -CONSTRUCTION OF ALL GRUBBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
7. IF FINAL SEEDING OF THE DISTURBED AREA IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (OGHAMAT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RESEEDING/RESEEDING PERIOD.	-SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH -FINAL GRADING OF ALL SLOPED AREAS
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RULOFF PROBLEMS.	-PLACE P-TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED REQUIRED.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADOED ONTO OPEN AREAS.	-REMOVAL OF THE TEMPORARY SEDIMENT BASINS -HAVE PARKING LOT -LANDSCAPING PER LANDSCAPING PLAN
10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:	-REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 75% STABILIZATION OR GREATER.
11. SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.	
12. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 80 LBS PER ACRE OR 16 LBS PER 1,000 SQ YD USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCULUM PLUS MAGNESIUM OXIDE) AT A RATE OF 1 TONS PER ACRE (100 LBS PER 100 SQ YD).	
13. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 4% CREEPING RED FESCUE, 5% REDTOP, AND 49% TALL FESCUE. THE LAWNS WILL BE SEEDED TO A PREMIUM LRF MIXTURE OF 40% KENTUCKY BLUE GRASS, 49% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 120 LBS PER 1,000 SQ YD. (400 LBS/AC) AND MAY BE SUBSTITUTED FOR SEED.	
14. HAY MULCH AT THE RATE OF 200 LBS PER 1,000 SQ. YD. A HYPO-ALLOY OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON HAY MULCH FOR WIND CONTROL.	
15. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.	
16. WETLANDS WILL BE PROTECTED WHEREAS AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND ON THE BOUNDARY OF WETLAND DISTURBANCE.	
17. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.	
18. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.	

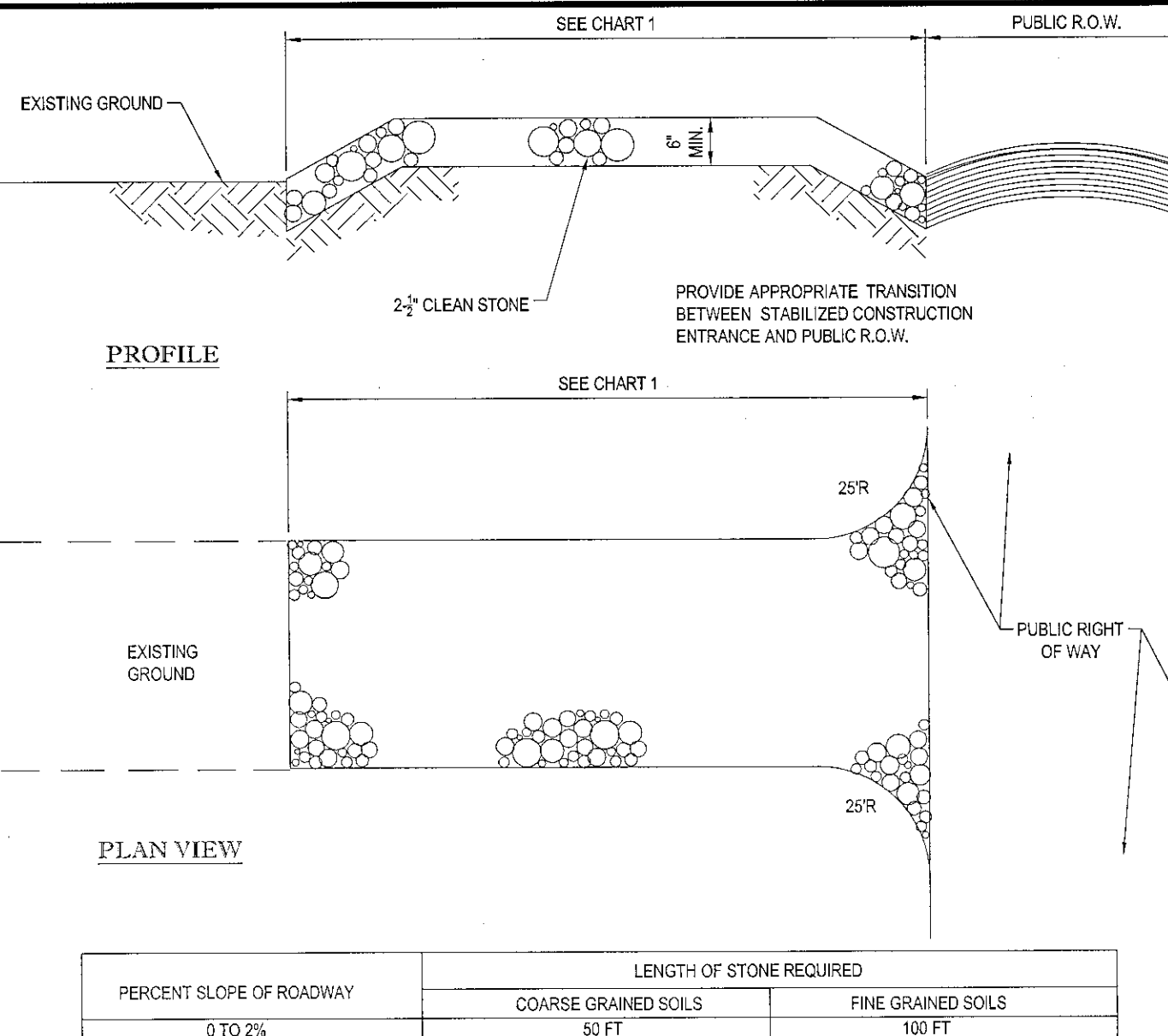
- ANTICIPATED CONSTRUCTION TIMELINE BEGIN: 1/28/2013 END: 9/21/2013
- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
- INSTALLATION OF EROSION CONTROL BARRIER (HYDRALAX AND SILT FENCE) (AS SHOWN)
- INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
- DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
- DEMOLITION OF EXISTING SITE PAVEMENT AND ADJACENTS (SEE DEMOLITION PLAN)
- CLEARING AND GRUBBING
- INSTALLATION OF TEMPORARY SHOULDS AND SEDIMENT BASINS
- EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
- CONSTRUCTION OF UTILITIES
- STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
- INSTALLATION OF INLET PROTECTION ON ON-SITE UTILITIES (AS SHOWN)
- CONSTRUCTION OF BUILDINGS
- CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
- SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
- FINAL GRADING OF ALL SLOPED AREAS
- PLACE 1" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED REQUIRED.
- REMOVAL OF TEMPORARY SEDIMENT BASINS
- PAVE PARKING LOT
- LANDSCOPING PER LANDSCAPING PLAN
- REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER.

## EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

2. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
3. WATER EXPOSATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
4. EXPOSED AREA SHALL BE LIMITED TO THAT CAN BE MULCHED IN ONE DAY FROM ANY ONE SNOW EVENT.
5. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
6. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 LBS PER 1,000 SQUARE FEET WITH OR WITHOUT EROSION CONTROL DORMANT SEEDS, MULCH, AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
7. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED, DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY STABILIZED WITH SUCH MATERIAL AS THE CONTRACTOR DEEMES APPROPRIATE FOR THE FINAL TREATMENT CAN BE APPLIED. IF THE DATES IS AFTER NOVEMBER 15 AND IF THE EXPOSED AREA HAS BEEN LOAMED, LIGHT GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200 - 300 LBS PER ACRE. EXPOSED AREAS SHALL BE PROTECTED PERMANENTLY AND THEN MULCHES IF CONSTRUCTION CONTINUING THROUGH WINTER. ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND SURFACE PROTECTION PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED TO THE WIND OR OTHER EXTREMES OF WORK SUPERSTURFURES TREATED IN THE ABOVE MANNER, UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FISHED WITH THE PERMANENT SURFACE TREATMENT. EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SALES OF HAY OR STONE CHOCK DAMS IN ACCORDANCE WITH STANDARD PRACTICES.
8. MULCHING REQUIREMENTS:
  - 7.1. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, MULCH SHALL BE ANCHORED BY EITHER LEGS OR MULCH NETTING ON WOOD CELLULOSE FIBER.
  - 7.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH ON ALL DRAINAGE WAYS WITH A SLOPES GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 6%.
  - 7.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 1% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 6%.
9. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
10. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE THE PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION/RUNOFF.
11. EXISTING CHALK BASH STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.



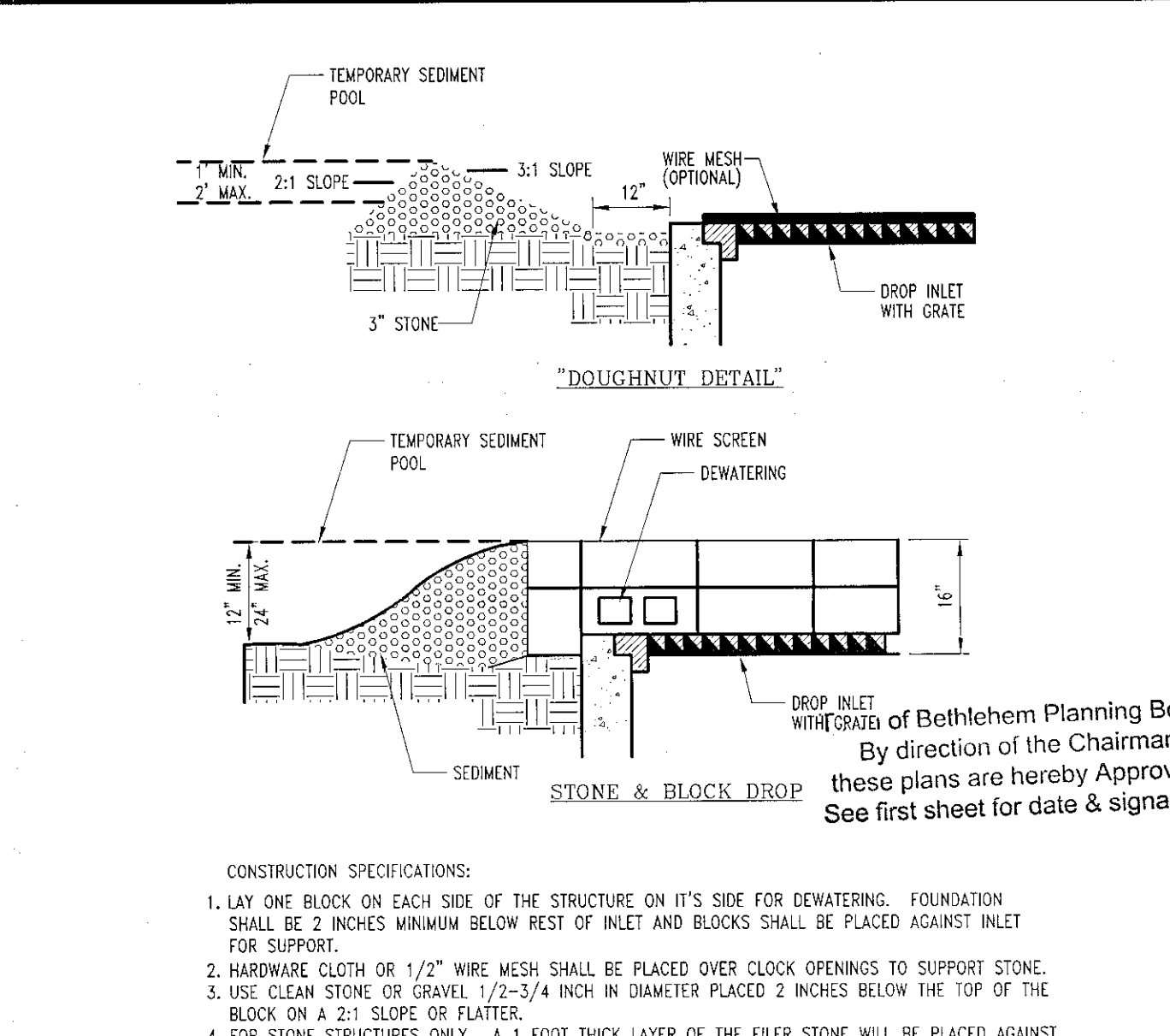
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Town of Bethlehem, N



(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

CHART 1

STABILIZED CONCENTRATION ENTRANCE

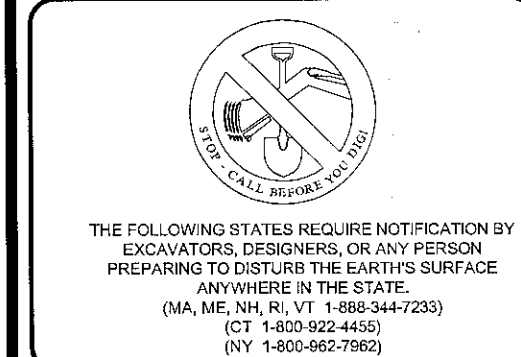


STONE & BLOCK INLET PROTECTION

TRAP 1  
 CONTRIBUTING AREA = 4.78± ACRES  
 LENGTH OF OUTLET = 4(DRAINAGE AREA)  
 4.78 = 19.12'  
 MINIMUM WIDTH = 4'  
 DIVIDED: 6'20" OUTLET  
 DIVIDED STORAGE = 3,600 OF PER ACRE OF  
 8(3,600) = 17,208 OF  
 DIVIDED: 46,050± + OF  
 REQUIRED:  
 SEDIMENT SHALL BE REMOVED AND TRAP  
 TO BE RESTORED TO ORIGINAL DIMENSIONS WHEN  
 SEDIMENT HAS ACCUMULATED TO 1/2 THE  
 ORIGINAL DESIGN CAPACITY  
 SEDIMENT CAPACITY = 46,050 OF x 0.5 = 23,025 OF  
 DIVIDED TRAP WILL REACH 1/2 DESIGN CAPACITY  
 ELEVATION 153.74'  
 ORIGINAL DIMENSIONS TO BE MARKED AND TRAP TO BE RESTORED  
 ORIGINAL DIMENSIONS WHEN 1.74' OF SEDIMENT HAS ACCUMULATED

DRAINAGE TRAP 2  
 CONTRIBUTING AREA = 2.48± ACRES  
 DRAINAGE LENGTH OF OUTLET = 4 (DRAINAGE AREA  
 4 x 4 = 2.48 ± 0.92  
 MINIMUM WIDTH = 4'  
 PROVIDED: 6"x12" OUTLET  
 DRAINAGE STORAGE = 5.66 CUBIC FEET PER ACRE OF  
 DRAINAGE (5.66 x 2.48±) = 8.928 CF  
 REQUIRED: 20.50± CF  
 DRAINAGE SHALL BE REMOVED AND TRAP  
 RESTORED TO ORIGINAL DIMENSIONS WHEN  
 SEDIMENT HAS ACCUMULATED TO 1/2 THE  
 ORIGINAL DESIGN CAPACITY  
 DESIGN CAPACITY = 0.056 CF x 0.5 = 0.0283 CF  
 DRAINAGE TRAP WILL REACH 1/2 DESIGN CAPACITY  
 ELEVATION 155.06  
 ORIGINAL ELEVATION TO BE MARKED AND TRAP TO BE RESTORED  
 ORIGINAL DIMENSIONS WHEN 2.08' OF SEDIMENT HAS ACCUMULATED

REVISIONS			
REV	DATE	COMMENT	BY
1	9/18/12	PER TOWN COMMENTS	SH
2	1/3/13	PER TOWN COMMENTS	SH
3	1/17/13	PER TOWN COMMENTS	SH
4	1/22/13	ADDED NYSDOT PAVEMENT DETAIL	SH
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PROJECT No.:	B120132
DRAWN BY:	SH
CHECKED BY:	RO
DATE:	8/29/2012
SCALE:	AS NOTED
CAD I.D.:	B120132SS4

DOCUMENTS  
— FOR —  
ROBERT H.  
FINKE & SONS,  
INC.

LOCATION OF SITE

1569 U.S. ROUTE 9W  
SELKIRK, NY 12158  
TOWN OF BETHLEHEM  
ALBANY COUNTY, NEW YORK



W.D. GOEBEL  
PROFESSIONAL ENGINEER  
NEW YORK LICENSE No. 071284-1  
OHIO LICENSE No. E-68329

SHEET TITLE:  
**SOIL EROSION  
CONTROL  
NOTES &  
DETAILS SHEET**

C-8  
OF 14