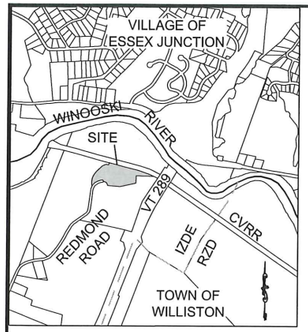


LOCATION MAP

NOT TO SCALE

STRUCTURE SCHEDULE:

NEW CB-1
GRATE ELEV. = 316.75
18" HDPE OUT = 312.75

LANDSCAPE BUFFERS

NORTH AND	TYPE I/III BUFFER	EXISTING VEGETATION INCLUDING MATURE CONIFEROUS TREES, SHRUBS GROUND COVER CONSISTENT WITH TYPICAL CLASS III WETLANDS, WIDTH VARIES
SOUTH	TYPE I BUFFER	EXISTING VEGETATION INCLUDING SOME MATURE TREES, SHRUBS AND TALL GRASSES, ALONG WITH EXISTING DEVELOPMENT, WIDTH VARIES
EAST	TYPE I/III BUFFER	EXISTING VEGETATION INCLUDING MATURE TREES, SHRUBS AND GROUND COVER CONSISTENT WITH TYPICAL CLASS III WETLANDS, WIDTH VARIES
WEST	TYPE I/III BUFFER	EXISTING VEGETATION INCLUDING MATURE TREES, SMALL TREES, SHRUBS, AND GROUND COVER CONSISTENT WITH TYPICAL CLASS II WETLANDS, WIDTH >50'

LEGEND

- EXISTING PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXISTING EASEMENT
- DRAINAGE SWALE
- EXISTING CONTOUR
- AE&T — AERIAL ELECTRIC & TELEPHONE, POLE
- W — EXISTING WATER LINE
- S — EXISTING SEWER LINE
- FM — EXISTING FORCE MAIN
- RELOCATED FENCE
- (UPLAND) — WETLANDS BOUNDARY
- WETLANDS BUFFER
- 275 — PROPOSED CONTOUR
- LIMITS OF DISTURBANCE
- PROPOSED TREE LINE
- NEW GRAVEL SURFACE

SHEET LIST:

PROJECT STATISTICS

ZONING DISTRICT	INDUSTRIAL ZONING DISTRICT EAST	
PARCEL ID	04-010-071-000	
PARCEL AREA	8.90 ACRES	
BUILDING COVERAGE	EXISTING	3.54% (0.035 ACRES)
	PROPOSED	3.54% (0.035 ACRES)
LOT COVERAGE	EXISTING	25.3% (2.25 ACRES)
	PROPOSED	33.3% (2.96 ACRES)
MINIMUM SETBACKS	FRONT	50'
	REAR/SIDE	SEE LANDSCAPE BUFFER TABLE (ABOVE)
BUILDING HEIGHT	NO PROPOSED BUILDINGS	
WATER & SEWER	EXISTING MUNICIPAL WATER EXISTING ONSITE WASTEWATER SYSTEM	

NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED LOCATION OF A GRAVEL AREA FOR A NEW CRUSHER TO BE INSTALLED FOR THE PURPOSE OF PROCESSING AND RECYCLING CONSTRUCTION AND DEMOLITION MATERIALS ON-SITE.

2. THE AREA SHOWN FOR THE NEW GRAVEL AREA AND CRUSHER HAS BEEN REVIEWED UNDER THE SITING CRITERIA FOR SOLID WASTE FACILITIES UNDER SECTION 6-502 OF SUBCHAPTER 5 OF THE STATE OF VERMONT SOLID WASTE MANAGEMENT RULES WITH AN EFFECTIVE DATE OF MARCH 15, 2012, AND HAS BEEN FOUND TO MEET THOSE CRITERIA AS FOLLOWS;
   (a) (1) N/A, THIS FACILITY WILL NOT BE A DISCRETE DISPOSAL FACILITY
   (2) THIS FACILITY IS NOT IN A CLASS I OR CLASS II GROUNDWATER AREA
   (3) NO DISTURBANCE IS PROPOSED WITHIN CLASS I OR CLASS II WETLANDS OR THEIR RESPECTIVE BUFFER ZONES
   (4) NO NEW DISTURBANCE IS PROPOSED WITHIN A CLASS III WETLAND
   (5) THE SITE IS NOT WITHIN A NATIONAL WILDLIFE REFUGE
   (6) THE SITE IS NOT WITHIN A STATE OF VERMONT WILDLIFE MANAGEMENT AREA
   (7) ACCORDING TO THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES ENVIRONMENT INTEREST LOCATOR MAP, THE SITE DOES NOT CONTAIN ANY THREATENED OR ENDANGERED SPECIES HABITAT AREA.
   (8) THE SITE IS NOT WITHIN THE WATERSHED OF ANY CLASS A WATERS
   (9) N/A, THIS FACILITY WILL NOT BE A DISCRETE DISPOSAL FACILITY
   (10) N/A, THIS FACILITY WILL NOT BE A DISCRETE DISPOSAL FACILITY
   (11) THIS FACILITY WILL NOT FALL WITHIN 500' OF ANY OUTSTANDING RESOURCE WATER
   (12) N/A, THIS FACILITY WILL NOT BE A DIFFUSE DISPOSAL FACILITY
   (13) N/A, THIS FACILITY WILL NOT BE A DISCRETE DISPOSAL FACILITY.

3. THE WETLANDS SHOWN ON THIS PLAN ARE BASED ON A DELINEATION PERFORMED ON 4/25/2017 BY LAMOUREUX & DICKINSON CONSULTING ENGINEERS, INC.

4. UTILITIES SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

5. THE OWNER/OPERATOR SHALL DETERMINE IF A NFPA PLAQUE IS REQUIRED FOR THE EXISTING FACILITY. IF REQUIRED, THE OWNER/OPERATOR WILL MEET WITH THE TOWN OF WILLISTON FIRE CHIEF TO DETERMINE THE LOCATION OF THE PLAQUE.

LANDOWNER:

CASELLA WASTE MANAGEMENT, INC.
25 GREEN HILLS LANE
RULAND, VT 05701

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

GRAPHIC SCALE
40 0 20 40 80 160
(in feet)
1 inch = 40 ft.

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE *WILLISTON DEVELOPMENT BYLAW* AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 17-24, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JUNE 13, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR CASELLA WM. INC. FACILITY SITE IMPROVEMENTS ON THIS 26 DAY OF JUNE, 2017.

DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

RECEIVED
JUN 28 2017
PLANNING/ZONING

FINAL PLANS

DP 17-24

casella WASTE MANAGEMENT

Date	Revision	By
06-23-17	REVISIONS PER TOWN FIRE CHIEF COMMENTS	NDS
06-20-17	REVISED POND OUTFALL PIPE	NDS
05-12-17	REMOVED UNDERDRAIN & REVISED POND OUFALL PIPE	NDS

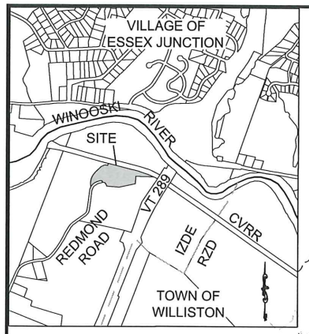
PARCEL # 04:010:071.000 DP 17-24

LANDS OF
CASELLA WASTE MANAGEMENT
1496 Redmond Rd. Williston, VT

Casella Waste Management, Inc.
Transfer, Storage & Recycling Facility
SITE & LANDSCAPING PLAN

Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDengineering.com

Project No.	16035
Survey	L&D
Design	OTHERS
Drawn	L&D
Checked	DLH/DJG
Date	5-4-17
Scale	1" = 40'
Sheet number	1



LOCATION MAP

NOT TO SCALE

GRAPHIC SCALE

40 0 20 40 80 160

(in feet)

1 inch = 40 ft.

STANDARD EPSC PLAN REQUIREMENTS

THIS SECTION CONTAINS THE MINIMUM REQUIRED ELEMENTS FOR THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN. THESE ELEMENTS ARE IN ADDITION TO THE SITE SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES SHOWN ON THE PLANS

EROSION PREVENTION

1. THROUGHOUT CONSTRUCTION, THE AREA OF SOIL DISTURBANCE SHALL BE LIMITED TO THOSE AREA(S) THAT CAN BE ACTIVELY WORKED AND MANAGED WITH THE FORCES AVAILABLE. AREAS THAT ARE NOT ACTIVELY BEING WORKED FOR A PERIOD OF 5 DAYS OR MORE, SHALL BE TEMPORARILY STABILIZED.

2. THE MAXIMUM AREA OF SOIL DISTURBANCE AT ANY ONE TIME ON THE ENITRE PROJECT PARCEL SHALL BE LESS THAN 1.4 ACRES.

3. SEDIMENT BASINS, SEDIMENT TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

4. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

5. WHENEVER WATER SEEPS FROM SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

6. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND THE RECEIVING CHANNEL.

7. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

8. ALL SEDIMENT REMOVED FROM SEDIMENT CONTROL PRACTICES AS A PART OF MAINTENANCE SHALL BE DISPOSED OF IN AN AREA THAT IS:
A. LESS THAN 5% IN SLOPE.
B. AT LEAST 100 FT. FROM ANY DOWNSLOPE WATER BODY OR CONVEYANCE TO A WATER BODY (INCLUDING STORM DRAIN INLET OR DITCH).
C. VEGETATED.
PERMANENT STABILIZATION OF SEDIMENT SHALL BE IMMEDIATELY IMPLEMENTED FOLLOWING DISPOSAL.

9. FOR ANY AREA TO BE STABILIZED FOR WINTER BY VEGETATIVE COVER, SEEDING MUST BE COMPLETED NO LATER THAN SEPTEMBER 15.

10. ANY AREA TO BE STABILIZED FOR WINTER THAT DOES NOT HAVE ESTABLISHED VEGETATION BY OCTOBER 15 MUST BE STABILIZED BY ANCHORED MULCH AT THE WINTER APPLICATION RATE OF 4 TONS PER ACRE, OR OTHER APPROVED STABILIZATION MEASURES (E.G. ROLLED EROSION CONTROL PRODUCT). DORMANT SEEDING (E.G. WITH WINTER RYE) IS RECOMMENDED.

11. DISTURBED AREAS BORDERING AND DRAINING TO ROADS MUST HAVE AN APPROPRIATE SEDIMENT BARRIER SPANNING THE EDGE OF THE DISTURBANCE TO PREVENT WASHING OF SEDIMENT ONTO ROADWAYS OR INTO ROAD DITCHES.

12. HAY MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2 TONS PER ACRE. HAY MULCH APPLICATION DURING WINTER CONSTRUCTION SHALL BE AT A RATE OF 4 TONS PER ACRE. WHERE SUBJECT TO BLOWING, MULCH SHALL SECURED IN PLACE BY TRACKING WITH EQUIPMENT (WITH TRACK RUNNING PARALLEL TO SLOPE), A TACKIFIER, NETTING, OR REPLACED WITH PROPERLY ANCHORED EROSION MATTING.

13. PLACEMENT OF SEED AND MULCH SHALL OCCUR WITHIN 48 HOURS OF PLACEMENT OF TOPSOIL AND COMPLETION OF FINAL GRADING (NOT WITHSTANDING STABILIZATION REQUIREMENTS ELSEWHERE IN THIS PLAN).

14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED.

STABILIZATION

15. ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 14 DAYS. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY.
THE FOLLOWING EXCEPTIONS APPLY:
A. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
B. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. HOUSE FOUNDATION EXCAVATION, UTILITY TRENCHES).

16. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. EXCEPT AS NOTED BELOW, ALL SITES SHALL BE SEEDED AND STABILIZED WITH EROSION CONTROL MATERIALS, SUCH AS MULCH OR ROLLED EROSION CONTROL PRODUCTS, INCLUDING AREAS WHERE CONSTRUCTION HAS BEEN SUSPENDED OR SECTIONS COMPLETED.
A. ON THE CUT SIDE OF ROADS, DITCHES SHALL BE STABILIZED IMMEDIATELY WITH ROCK RIP-RAP OR OTHER NON-ERODIBLE LINERS (E.G. RECP), OR WHERE APPROPRIATE, VEGETATIVE MEASURES SUCH AS SOD.
B. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS AND AREAS WITHIN 50 FT. OF A BUILDING UNDER CONSTRUCTION, A DOWNSLOPE PERIMETER SEDIMENT CONTROL SYSTEM CONSISTING, FOR EXAMPLE, OF SILT FENCING, SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SOIL. EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDES RAPID OFFSITE DISCHARGE OF SEDIMENT, SUCH AS A CUT SLOPE AT AN ENTRANCE, SHALL BE COVERED WITH PLASTIC OR GEOTEXTILE TO PREVENT SOIL LOSS UNTIL IT CAN BE STABILIZED. STABILIZED CONSTRUCTION ENTRANCES WILL BE MAINTAINED TO CONTROL VEHICLE TRACKING MATERIAL OFF SITE.
C. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTING DRAINAGE AREAS. SIMILARLY, STABILIZATION SHALL BE ESTABLISHED PRIOR TO CONVERTING SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT PRACTICES.
D. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
E. ALL SLOPES STEEPER THAN 3:1 (H:V), OR 33.3%, AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS SHALL, UPON COMPLETIONS, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES (RECP). AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL NOT BE DISTURBED.

INSPECTION & MONITORING

17. THE ONSITE COORDINATOR IS _____

18. THE ON-SITE COORDINATOR SHALL INSPECT, AND DOCUMENT IN WRITING, THE STATUS OF CONSTRUCTION ON THE PROJECT SITE AND EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES IN PLACE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, PRIOR TO PREDICTED PRECIPITATION, AND AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER FROM THE CONSTRUCTION SITE.

19. DURING THE WINTER CONSTRUCTION PERIOD (OCT. 15 - APRIL 15) DAILY INPSECTIONS SHALL BE PERFORMED AND DOCUMENTED.

20. INSPECTION FREQUENCY MAY BE REDUCED TO NOT LESS THAN ONE PER MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED AND ALL CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED. INPSECTIONS SHALL RESUME PRIOR TO RESUMING CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE REQUIREMENTS LISTED ABOVE.

21. IN ADVANCE OF A PREDICTED RAINFALL OR SNOWMELT EVENT, ALL MANAGEMENT PRACTICES APPROPRIATE TO CURRENT AREAS OF DISTURBANCE MUST BE CHECKED AND REPAIRED AS NECESSARY TO ENSURE PROPER OPERATING CONDITION. IF NECESSARY TO PREVENT SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THIS WILL INCLUDE THE TEMPORARY STABILIZATION OF ALL DISTURBED SOILS ON THE SITE IN ADVANCE OF THE ANTICIPATED RUNOFF PERIOD.

PERMIT NOTICE

22. A COPY OF THE DISCHARGE PERMIT, THE AUTHORIZATION TO DISCHARGE, A BRIEF DESCRIPTION OF THE PROJECT, AND THE LOCATION WHERE THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN IS AVAILABLE SHALL BE POSTED AT A LOCATION ON THE PROJECT SITE THAT IS VISIBLE TO THE PUBLIC.

CONSTRUCTION EVENT SEQUENCING

1. MARK LIMITS OF DISTURBANCE AND INSTALL EROSION PREVENTION MEASURES.
2. GRUB AND CLEAR THE SITE.
3. EXCAVATE THE NEW DRY SWALE TO 1 FOOT BELOW THE SHOWN ELEVATION.
4. GRADE THE SITE AS SHOWN, PROVIDE SURFACE ROUGHENING AND EROSION CONTROL MATTING WHERE SLOPES EXCEED 1H:3V. INSTALL STONE OUTFALL PROTECTION AS SHOWN.
5. INSTALL NEW GRAVEL SURFACE PER DETAIL.
6. CONSTRUCT THE DRY SWALE PER DETAIL.
7. ENSURE SITE STABILIZATION.
8. REMOVE ALL TEMPORARY EROSION PREVENTION MEASURES.

SURFACE ROUGHENING GUIDELINES

1. SURFACE ROUGHENING SHALL BE USED TO REDUCE RUNOFF VELOCITY, THEREBY REDUCING THE POTENTIAL FOR EROSION, AS WELL AS PROVIDING FOR TRAPPING OF SEDIMENT. SURFACE ROUGHENING SHALL BE USED:
- ON ALL SLOPES WHERE CONSTRUCTION ACTIVITIES WILL BE SUSPENDED AND TEMPORARY STABILIZATION MEASURES WILL BE IMPLEMENTED.
- PRIOR TO PLACEMENT OF SEED AND MULCH ON ALL FINAL SLOPES 3H:1V OR STEEPER.

2. SURFACE ROUGHENING MAY BE ACCOMPLISHED BY TRACKING WITH EQUIPMENT, OR GROOVING WITH DISKS, TILLERS, SPRING HARROWS, OR THE TEETH OF A FRONT-END LOADER BUCKET. WHERE GROOVING IS USED, THEY SHOULD BE LESS THAN 3 INCHES DEEP AND NO MORE THAN 15 INCHES APART.

3. THE SURFACE ROUGHENING MUST ALWAYS BE DONE SUCH THAT THE HORIZONTAL GROOVES RUN ACROSS THE SLOPE AND ACT TO SLOW RUNOFF.

4. WHEN USING EROSION MATTING, AVOID EXCESSIVE SURFACE ROUGHENING. MATTING MUST BE INSTALLED IN INTIMATE CONTACT WITH THE SOIL SURFACE TO BE EFFECTIVE.

5. NEVER BACK BLADE OR SCRAPE THE FINAL SOIL SURFACE. THIS WILL RESULT IN A SMOOTH SURFACE, INCREASING RUNOFF VELOCITY.

SPECIAL WINTER EPSC PLAN REQUIREMENTS

IF CONSTRUCTION ACTIVITIES INVOLVING EARTH DISTURBANCE CONTINUE PAST OCTOBER 15, OR BEGIN BEFORE APRIL 15, THEN THE FOLLOWING PROVISIONS SHALL BE IMPLEMENTED:

1. STABILIZED ACCESS POINTS SHALL BE ENLARGED TO PROVIDE FOR SNOW STOCKPILING WHILE STILL MAINTAINING EFFECTIVE SEDIMENT CONTROL. PACKED SNOW AND ICE MAY NEED TO BE REMOVED AND ADDITIONAL STONE PLACED TO MAINTAIN THE LOOSE STONE SURFACE AT STABILIZED CONSTRUCTION EXITS.

2. THE LIMITS OF DISTURBANCE MAY NEED TO BE REPLACED OR DRAWN IN TO REFLECT THE BOUNDARY OF WINTER WORK. THE LIMITS OF DISTURBANCE SHALL BE DRAWN IN TO EXCLUDE ALL AREAS TEMPORARILY STABILIZED FOR THE WINTER, AND AREAS WHERE DISTURBANCE DURING THE WINTER IS NOT PLANNED.

3. BASED UPON THE WINTER ACTIVITIES PROPOSED, THE ON-SITE PLAN COORDINATOR SHALL DEVELOP A SNOW MANAGEMENT PLAN THAT SHALL INCLUDE AT A MINIMUM
A. ADEQUATE SIZE FOR SNOW STORAGE AREAS
B. SNOW STORAGE AREAS LOCATED DOWN GRADIENT OF AREAS OF PLANNED DISTURBANCE
C. CONTROL OF SNOWMELT RUNOFF
D. PROHIBITING STORAGE OF SNOW IN STORMWATER TREATMENT STRUCTURES.
E. A MINIMUM 25 FOOT BUFFER BETWEEN PERIMETER CONTROLS (SUCH AS SILT FENCE) TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.

4. IN AREAS OF DISTURBANCE WITHIN 100 FT OF A RECEIVING WATER, SILT FENCE SHALL BE REINFORCED OR REPLACED WITH PERIMETER DIKES, SWALES, OR OTHER PRACTICES RESISTANT TO THE FORCES OF SNOW LOADS.

5. THE ONSITE PLAN COORDINATOR INSPECTIONS SHALL INCLUDE MAINTENANCE OF DRAINAGE STRUCTURES TO INSURE THAT THEY ARE OPEN AND FREE OF SNOW AND ICE DAMS.

6. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE INSTALLED AHEAD OF GROUND FREEZING. IF PRACTICES MUST BE INSTALLED OR MAINTAINED AFTER GROUND FREEZING, NO FROZEN MATERIAL SHALL BE USED IN THE CONSTRUCTION OF BERMS OR DIKES, OR INSTALLATION OF SILT FENCE.

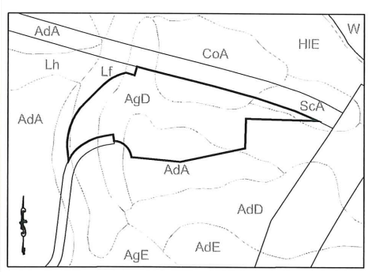
7. WHERE MULCH IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED TWICE THE STANDARD RATE, OR A MINIMUM OF 4 TONS PER ACRE.

8. WHEN MULCH IS USED FOR TEMPORARY STABILIZATION, AS NEEDED, IT SHALL BE ANCHORED TO PREVENT BLOWING AND REMOVAL BY WIND. ANCHORING MAY INCLUDE TRACKING WITH EQUIPMENT, APPLICATION OF A TACKIFIER, OR NETTING.

9. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH DAY, WITH THE FOLLOWING EXCEPTIONS:
A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.

10. SNOW AND/OR ICE SHALL BE REMOVED TO A THICKNESS OF LESS THAN 1" (ONE INCH) PRIOR TO TEMPORARY STABILIZATION.

11. WHERE EXTERIOR CONSTRUCTION ON BUILDINGS WILL CONTINUE, OR WHERE VEHICLE OR EQUIPMENT TRAFFIC ASSOCIATED IS EXPECTED, A STABILIZED WORK AREA AROUND THE PERIMETER OF THE STRUCTURE SHALL BE STABILIZED WITH CRUSHED STONE OR GRAVEL.



SOIL MAP

NOT TO SCALE

AdA	ADAMS AND WINDSOR LOAMY SANDS, 0-5% SLOPES	K = .15
AgD	AGAWAM FINE SANDY LOAM, 12-30% SLOPES	K = .20
AgE	AGAWAM FINE SANDY LOAM, 30-60% SLOPES	K = .20
CoA	COLTON GRAVELLY LOAM SAND, 0-5% SLOPES	K = .05
Lf	LIMERICK SILT LOAM, VERY WET	K = .43
ScA	SCANTIC SILT LOAM, 0-2% SLOPES	K = .32

MULCHING AND MATTING REQUIREMENTS

MULCH MATERIAL	QUALITY STANDARDS	APPLICATION RATE PER ACRE	DEPTH OF APPLICATION	NOTES
WOOD CHIPS OR SHAVINGS	FREE OF OBJECTIONABLE OR COARSE MATERIAL	10-20 TONS	2" - 7"	USED PRIMARILY AROUND SHRUBS AND TREES, OR ALONG TRAILS. RESISTANT TO WIND BLOWING. DECOMPOSES SLOWLY.
HAY OR STRAW	AIR DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIAL	2 TONS (4 TONS IN WINTER)	~ 90% COVERAGE	USE TACKIFIER, NETTING, AND/OR TRACKING WHERE SUBJECT TO BLOWING. NOT SUITABLE FOR SLOPES > 3H:1V
ROLLED EROSION CONTROL PRODUCT (EROSION MATTING)	DOUBLE NET STRAW BLANKET - NORTH AMERICAN GREEN S150 OR EQUAL.	-	100% COVERAGE	TO BE USED ON SLOPES > 3H:1V. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND DETAILS ON OTHER SHEETS

NOTES:
1. AREA OF DISTURBANCE = 1.40 ACRES
2. THE LIMITS OF DISTURBANCE SHALL BE MARKED WITH 4" ORANGE POLYESTER BARRIER TAPE, CONSTRUCTION FENCE, OR SNOW FENCE, EXCEPT IN AREAS WITHIN 50 FEET OF A PRESERVED WETLAND OR STREAM WHERE CONSTRUCTION FENCE SHALL BE USED TO MARK THE LIMITS OF DISTURBANCE.

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE *WILLISTON DEVELOPMENT BYLAW* AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 17-24, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JUNE 13, 2017 . THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR CASELLA WM, INC. FACILITY SITE IMPROVEMENTS ON THE 26 DAY OF July, 2017.

DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

LEGEND

- DRAINAGE SWALE
- WETLANDS BOUNDARY (UPLAND)
- WETLANDS BUFFER
- PROPOSED CONTOUR 275
- LIMITS OF DISTURBANCE (MARKED WITH 4" ORANGE POLYESTER BARRIER TAPE OR CONSTRUCTION FENCE) LOD
- SILT FENCE
- PROPOSED TREE LINE
- NEW GRAVEL SURFACE
- STABILIZED CONSTRUCTION EXIT
- EROSION CONTROL MATTING
- STOCKPILE/STORAGE AREA
- FLOW DIRECTION

1'' GRID

casella WASTE MANAGEMENT

Date	Revision	By

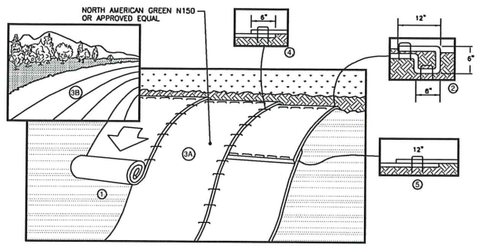
PARCEL # 04:010:071.000 DP 17-24

LANDS OF
CASELLA WASTE MANAGEMENT
1496 Redmond Rd. Williston, VT

Casella Waste Management, Inc.
Transfer, Storage & Recycling Facility
EROSION PROTECTION & SEDIMENT CONTROL PLAN

Project No.	16035
Survey	L&D
Design	OTHERS
Drawn	L&D
Checked	DLH/DJG
Date	5-4-17
Scale	1" = 40'
Sheet number	2

Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDengineering.com



1. EROSION MATTING WILL BE USED ON SLOPES STEEPER THAN 3H:1V OR AS SHOWN ON THE PLANS.

2. PREPARE SOIL BEFORE INSTALLING MATTING, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. SOIL SURFACE SHALL BE GRADED SMOOTH WITHOUT ROOTS, STONES OR OTHER PROTUSIONS THAT WILL PREVENT THE MATTING FROM BEING APPLIED IN FULL CONTACT WITH THE SOIL SURFACE.

3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE MATTING IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF MATTING EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE MATTING WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF MATTING BACK OVER SEED AND COMPACTED SOIL. SECURE MATTING OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" PART ACROSS THE WIDTH OF THE MATTING.

4. ROLL THE MATTING (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. INSURE THAT THE APPROPRIATE SIDE OF THE MATTING IS AGAINST THE SOIL SURFACE. ALL MATTING MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE MANUFACTURER'S STAPLE PATTERN GUIDE FOR THE PARTICULAR PRODUCT AND APPLICATION. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE MATTING.

5. THE EDGES OF PARALLEL MATTING MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP DEPENDING ON MATTING TYPE.

6. CONSECUTIVE MATTING SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE – WITH THE UPPER MATTING PLACED OVER THE TOP OF THE LOWER MATTING) WITH AN APPROXIMATE 12" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE MATTING WIDTH.

EROSION MATTING INSTALLATION DETAIL
NTS

TURF ESTABLISHMENT SPECIFICATIONS

ALL DISTURBED AREAS THAT DO NOT HAVE AN IMPERVIOUS SURFACE (PAVEMENT, SIDEWALKS, ROOFS) OR ARE NOT LANDSCAPED WITH BARK MULCH, SHALL BE STABILIZED NEW GRASS COVER. ALL SEEDING AND MULCHING FOR ESTABLISHING NEW GRASS COVER SHALL BE COMPLETED AFTER APRIL 15 (AS SITE CONDITIONS ALLOW) AND PRIOR TO SEPTEMBER 15. PLACEMENT OF TOPSOIL, AND THE APPLICATION OF SEED, FERTILIZER, LIME (WHERE APPLICABLE), AND MULCH SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. A MINIMUM OF 4" OF APPROVED TOPSOIL SHALL BE PLACED IN ALL AREAS. PLACEMENT OF TOPSOIL SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN, EXCESSIVELY WET, OR OTHERWISE IN A CONDITION DETRIMENTAL TO THE WORK. FOLLOWING PLACEMENT OF TOPSOIL, THE SURFACE SHALL BE RAKED. ALL STONES, LUMPS, ROOTS, OR OTHER OBJECTIONAL MATERIAL SHALL BE REMOVED.

2. GRASS SEED MIXTURE SHALL BE SPREAD UNIFORMLY IN ALL AREAS AT THE SPECIFIED RATE.

3. FERTILIZER SHALL BE APPLIED ONLY AFTER PERFORMING A SOIL TEST AND BE APPLIED BASED UPON SOIL DEFICIENCIES. LIME SHALL ONLY BE APPLIED AS NEEDED BASED UPON A SOIL pH TEST.

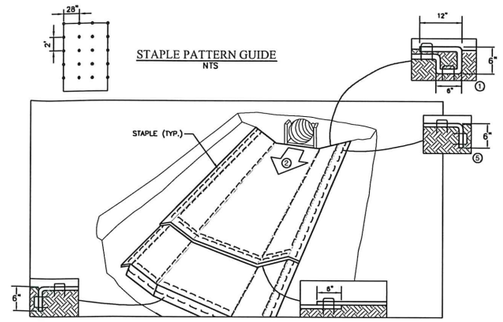
4. MULCHING SHALL FOLLOW THE SEEDING OPERATION BY NOT MORE THAN 24 HOURS. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A MINIMUM RATE OF 2 TONS PER ACRE. SITE CONDITIONS MAY WARRANT THE APPLICATION OF A TACKIFIER OR NETTING TO HOLD THE MULCH IN PLACE. IF NECESSARY TO RETAIN THE MULCH, THE CONTRACTOR SHALL APPLY AN APPROVED TACKIFIER, OR NETTING, WITHOUT ADDITIONAL COST TO THE OWNER.

5. HYDROSEEDING MAY BE USED IN LIEU OF SEEDING AND APPLYING HAY MULCH DURING THE GROWNG SEASON. HYDROSEEDING SHALL INCLUDE THE APPLICATION OF WOOD AND/OR PAPER BINDER MULCH. THE BINDER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, BUT SHALL NOT BE LESS THAN 1500 POUNDS PER ACRE ON SLOPES LESS THAN 15% AND NOT LESS THAN 2000 POUNDS PER ACRE ON SLOPES GREATER THAN 15%. HYDROSEEDING ALONE SHALL NOT BE USED FOR TEMPORARY STABILIZATION AFTER SEPTEMBER 15.

6. ALL SLOPES STEEPER THAN 3H:1V SHALL HAVE EROSION MATTING APPLIED OVER THE SEED. ALL DITCH CENTERLINE GRADES GREATER THAN 2% OR AS SHOWN ON THE PLANS SHALL HAVE EROSION MATTING APPLIED OVER THE SEED. EROSION MATTING SHALL CONSIST OF EROSION CONTROL BLANKET WITH 100% AGRICULTURAL STRAW MATRIX STITCH BOUNDED WITH DEGRADABLE THREAD BETWEEN TWO PHOTODEGRADABLE POLYPROPYLENE NETTINGS, NORTH AMERICAN GREEN S150 OR EQUAL. NORTH AMERICAN GREEN DS150 MAY BE USED IN LAWN AREAS, ONLY WHEN SEEDING TAKES PLACE PRIOR TO SEPTEMBER 1.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL GROWTH OF GRASS IN ALL DISTURBED AREAS TO BE RE-VEGETATED. VEGETATION GROWTH SHALL BE PERMANENT AND SUFFICIENT TO PREVENT EROSION OF THE UNDERLYING SOIL UNDER ALL CONDITIONS OF PRECIPITATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND CARING FOR SEEDED, MULCHED, AND AREAS OF ESTABLISHED VEGETATION UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER.

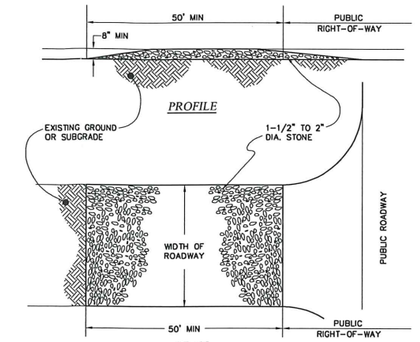
GRASS SEED MIX	
% OF MIX	TYPE OF SEED
30	CROSSFIRE IV TALL FESCUE
25	TITANIUM TALL FESCUE
25	BLADERUNNER TALL FESCUE
15	HOME RUN PERENNIAL RYEGRASS
5	KENTUCKY BLUEGRASS
100	SEED AT 5 LBS PER 1,000 SQ. FT.



1. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. FOLD REMAINING 12" PORTION OF BLANKET BACK OVER COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
2. ROLL BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING
3. STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN ABOVE IN THE STAPLE PATTERN GUIDE.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS ALONG SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

EROSION MATTING FOR CHANNELS
NTS



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF -WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT OR MATERIAL TRACKED, SPILLED, OR WASHED INTO THE TOWN RIGHT OF WAY BEFORE RAINFALL OR WITHIN 24 HOURS, WHICHEVER COMES FIRST.

2. THE USE OF CALCIUM CHLORIDE AND/OR WATER MAY ALSO BE NECESSARY TO CONTROL DUST DURING CONSTRUCTION.

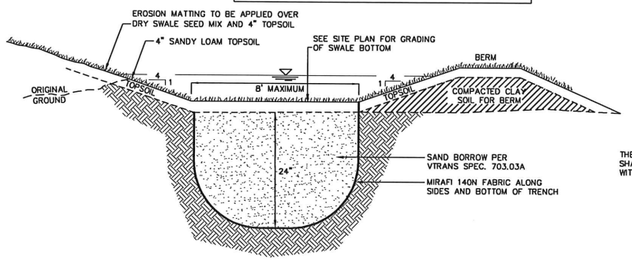
3. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY.

STABILIZED CONSTRUCTION EXIT
NTS

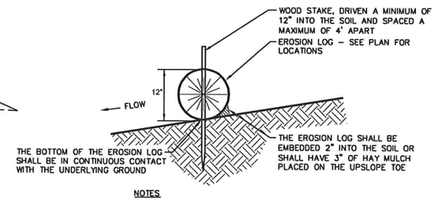
DRY SWALE SEED MIX		
Common name	Botanical name	% Total
Creeping red fescue	*Festuca rubra*	20%
Red top	*Agrostis alba*	20%
Switchgrass	*Panicum virgatum*	20%
Virginia wild rye	*Elymus virginicus*	20%
Creeping bentgrass	*Agrostis stolonifera*	20%

SEED SHALL BE APPLIED AT A RATE OF 25 POUNDS PER ACRE TO THE BOTTOM AND SIDESLOPES OF THE DRY SWALE.

SEED MIX MAY BE OBTAINED FROM VERMONT WETLAND PLANT SUPPLY, LLC (802) 948-2553 OR VERMONTWETLANDPLANTS.COM



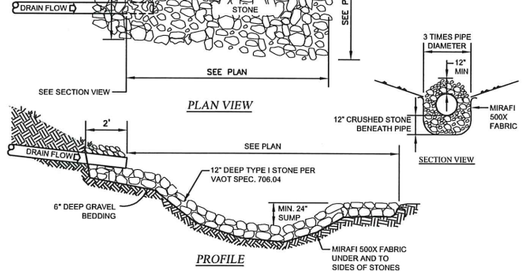
DRY SWALE TYPICAL SECTION
NTS



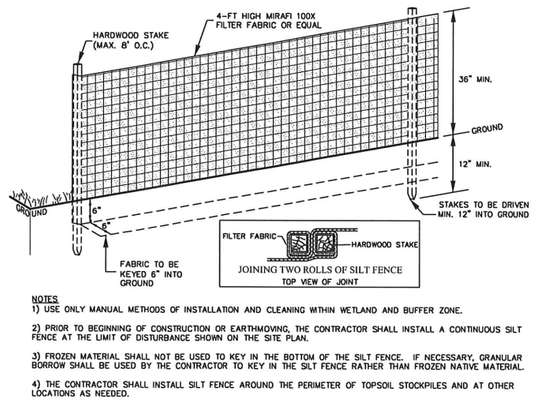
NOTES

1. TIGHTLY ABUT THE ENDS OF THE EROSION LOGS – NO GAPS.
2. INSTALL EROSION LOGS PARALLEL TO CONTOURS AS SHOWN ON THE PLANS.

EROSION LOG SECTION
NTS



TYPICAL CULVERT OUTFALL
NOT TO SCALE



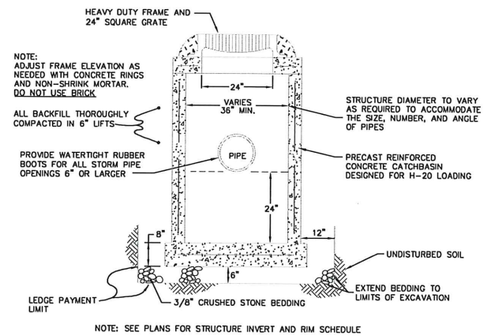
NOTES
1) USE ONLY MANUAL METHODS OF INSTALLATION AND CLEANING WITHIN WETLAND AND BUFFER ZONE.

2) PRIOR TO BEGINNING OF CONSTRUCTION OR EARTHMOVING, THE CONTRACTOR SHALL INSTALL A CONTINUOUS SILT FENCE AT THE LIMIT OF DISTURBANCE SHOWN ON THE SITE PLAN.

3) FROZEN MATERIAL SHALL NOT BE USED TO KEY IN THE BOTTOM OF THE SILT FENCE. IF NECESSARY, GRANULAR BORROW SHALL BE USED BY THE CONTRACTOR TO KEY IN THE SILT FENCE RATHER THAN FROZEN NATIVE MATERIAL.

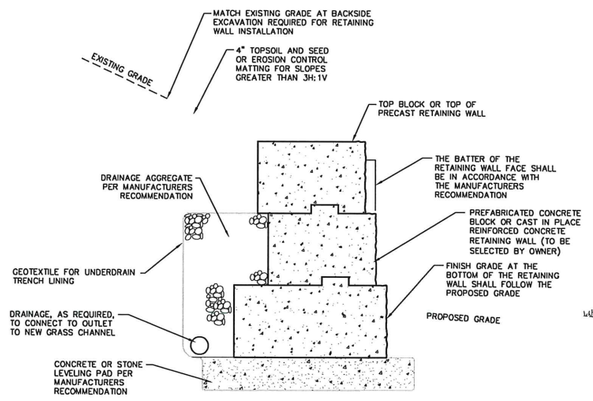
4) THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND THE PERIMETER OF TOPSOIL STOCKPILES AND AT OTHER LOCATIONS AS NEEDED.

TEMPORARY SILT FENCE
NTS

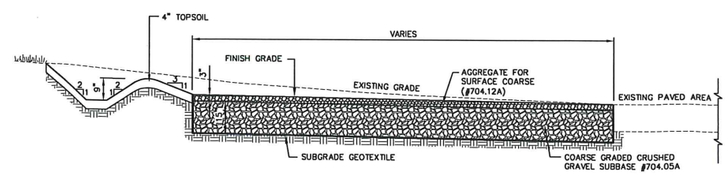


NOTE: SEE PLANS FOR STRUCTURE INVERT AND RIM SCHEDULE

OUTLET STRUCTURE
NTS



RETAINING WALL SECTION
NTS



GRAVEL PARKING AREA
NTS

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE *WILLISTON DEVELOPMENT BYLAW* AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 17-24, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JUNE 13, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR CASELLA WM, INC. FACILITY SITE IMPROVEMENTS ON THE 26 DAY OF JULY, 2017.

~~DEVELOPMENT REVIEW BOARD CHAIR~~ / ADMINISTRATOR'S SIGNATURE

PARCEL # 04:010:071.000 DP 17-24

Date	Revision	By
06-20-17	REVISED CATCH BASIN DETAIL TO OUTLET STRUCTURE	NDS
05-12-17	REMOVED UNDERDRAIN FROM DRY SWALE	NDS

LANDS OF
CASELLA WASTE MANAGEMENT
1496 Redmond Rd. Williston, VT

Casella Waste Management, Inc.
Transfer, Storage & Recycling Facility
DETAILS AND SPECIFICATIONS

Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDengineering.com

Project No.	16035
Survey	L&D
Design	OTHERS
Drawn	L&D
Checked	DLH/DJG
Date	5-4-17
Scale	N.T.S.
Sheet number	3