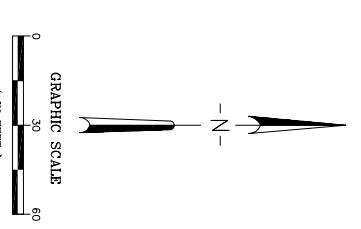


S.T.H. 57



- BEACH NOURISHMENT SAND SPECIFICATIONS**
1. ALL VEGETATION AND TOPSOIL SHOULD BE REMOVED FROM THE AREA OF THE PROPOSED BEACH NOURISHMENT PRIOR TO PLACING THE SAND.
 2. BEACH NOURISHMENT SAND SHALL BE NATURAL, MINED, MANUFACTURED, OR MIXTURE THEREOF. PARTICLE SIZE SHALL CONFORM TO TABLE 3. THE AMOUNT OF MATERIAL PASSING THE #200 SIEVE SHALL NOT EXCEED 5.0%.
- TABLE 3 - BEACH NOURISHMENT SAND PARTICLE SIZE DISTRIBUTION
- | SIEVE NO. | PERCENT PASSING (BY WT.) |
|-----------|--------------------------|
| #10 | 100 |
| #20 | 100-90 |
| #40 | 100-60 |
| #60 | 100-30 |
| #100 | 45-0 |
| #200 | 5 |
-
- | PERCENT PASSING (BY WT.) | GRAIN SIZE DIAMETER (MILLIMETERS) |
|--------------------------|-----------------------------------|
| D100 | 0.2-2.0 |
| D60 | 0.12-0.4 |
| D30 | 0.08-0.26 |
| D10 | |

Common Name	Species Name	Plant Height	Flower Color	Bloom Time	Spacing
Zone 1 - Shrubs/Creeping Dune Plants					
Beeberry	<i>Actinostaphylos uva-ursi</i>	1'-3'	white/pink	Mar-June	—
Creeping Juniper	<i>Juniperus horizontalis</i>	1'-3'	green	April-May	—
Sand Cherry	<i>Pyrus pumila</i>	1'-3'	white	May-July	—
Beach Pea	<i>Lathyrus japonicus v. maritimus</i>	1'	magenta	Jun-Aug	—
Old-Field Juniper	<i>Juniperus communis var. depressa</i>	3'-6'	yellow	N/A	—
Creeping Juniper	<i>Juniperus horizontalis</i>	1'-3'	green	April-May	—
Ninebark	<i>Physocarpus opulifolius</i>	3'-10'	white/pink	May-June	—
Shrubby Cinquefoil	<i>Potentilla fruticosa</i>	3'-4'	yellow	June-Sept	—
Red-osier dogwood	<i>Cornus stolonifera</i>	6'-9'	white	Mar-June	—
Zone 2 - Native Grasses					
Marram Grass	<i>Ammophila brevigulata</i>	1'-3'	yellow	July-Sept	1'
Big Bluestem	<i>Andropogon gerardi</i>	5'-8'	bronze/red	Aug-Oct	1'-2'
Prairie Sand-reed	<i>Calamovilfa longifolia</i>	2'-6'	yellow	July-Aug	1'
Canada Wild Rye	<i>Elymus canadensis</i>	4'-5'	straw	July-Aug	1'
Junegrass	<i>Koeleria macrantha</i>	2'-3'	gold	May-June	1'
Little Bluestem	<i>Schizachyrium scoparium</i>	2'-3'	cinnamon-red	Aug-Oct	1'
Indiangrass	<i>Sorghastrum nutans</i>	5'-7'	gold	Aug-Sept	1'-2'
Zone 3 - Lawn					
Kentucky Bluegrass	<i>Poa pratensis</i>	—	—	—	—

- NOTES**
1. TOPSOIL - A MINIMUM OF 6 INCHES OF TOPSOIL SHOULD COVER ZONE 3. TOPSOIL SHOULD ALSO BE ADDED TO AREAS PLANTED WITH ZONE 1 SHRUBS.
 2. MULCHING - WOOD CHIP OR BARK MULCH SHALL BE PLACED AROUND PLANTS IN ZONE 1 TO A DEPTH OF 2" TO 4" IMMEDIATELY AFTER PLANTING. STRAW MULCH SHALL BE PLACED OVER ZONE 3 IMMEDIATELY AFTER PLANTING. THE STRAW MULCH MATERIALS AND APPLICATION SHALL MEET THE REQUIREMENTS PRESENTED IN CONSERVATION PRACTICE STANDARD 1058 "MULCHING FOR CONSTRUCTION SITES." THIS MULCH MUST BE MAINTAINED UNTIL SUFFICIENT TURF GRASS COVER HAS BEEN ESTABLISHED.
 3. A FIBER BLANKET SHALL BE PLACED OVER ZONE 2 AFTER FINAL GRADING IS COMPLETED. THE FIBER BLANKET SHALL BE A NORTH-AMERICAN GREEN STONEX OR APPROVED EQUIVALENT. LANDSCAPE CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PROJECT SPECIFICATIONS.
 4. ZONE 1 PLANTING - SPECIES PLANTED IN ZONE 1 SHOULD BE A MIXTURE OF SPECIES CHOSEN FROM THE LIST OF APPROPRIATE SPECIES PROVIDED ON THE PLAN. ALL SHRUBS AND CREEPING DUNE PLANTS SHALL BE PLANTED ACCORDING TO AMERICAN NURSERYMAN'S STANDARDS. WHEN PLANTING IN AREAS WITH A FIBER BLANKET, AN "X" PATTERN SHALL BE CUT IN THE BLANKET AND REPLACED UNDER THE SHRUB.
 5. ZONE 2 PLANTING - GRASSES PLANTED IN ZONE 2 SHOULD BE AMMOPHILA BREVIQULATA PLUS AT LEAST ONE OTHER SPECIES CHOSEN FROM THE LIST OF APPROPRIATE SPECIES PROVIDED. LANDSCAPE CONTRACTOR SHALL FOLLOW SUPPLIER'S RECOMMENDATIONS FOR PLANTING THE NATIVE GRASSES. THESE GRASSES SHALL BE PLANTED AS LIVE PLANTS OR BARE ROOT STOCK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE FIBER BLANKET DURING THE PLANTING PROCESS.
 6. ZONE 3 PLANTING - TURF GRASS MATCHING THE EXISTING ADJACENT TURF GRASS SHALL BE PLANTED WITHIN ZONE 3. THE GRASS SHOULD BE SEDED ACCORDING TO THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION SECTION 630.
 7. TIMING OF PLANTING - THE PLANTING OF ALL SHRUBS SHALL BE COMPLETED PRIOR TO THE PLANTING OF ZONE 2. PLANTING SCHEDULES MUST BE COORDINATED WITH THE SUPPLIERS OF VARIOUS PLANT MATERIALS.
 8. FENCING - PLASTIC TYPE TEMPORARY FENCING SHALL BE PLACED ALONG MARGINS OF ALL CORD WALKS, GRAVEL ROAD, TRACTOR ACCESS AND ZONE 2 AREAS AFTER PLANTING.
 9. WARRANTY AND MAINTENANCE - ALL PLANTINGS SHALL BE WATERED AND MAINTAINED DURING THE 12 MONTH WARRANTY PERIOD. MULCH AND FIBER BLANKET STAKING SHALL ALSO BE MAINTAINED AS DESIGNATED DURING THE 12 MONTH WARRANTY PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FIBER BLANKET AND STAKING FOR TWO GROWING SEASONS AFTER PLANTING. SEE MAINTENANCE PLAN FOR SPECIFICATIONS.
 10. PLANT HEIGHT CONSIDERATIONS - PLANTS ARE EXPECTED TO GROW TO HEIGHTS AT THE LOWER END OF THE RANGES PROVIDED ON THE PLANS. DUE TO THE HARSHNESS OF THE LOCAL ENVIRONMENT, THE HEIGHT OF GRASSES GIVEN MAY INCLUDE THE SEED HEADS, WHICH MAY BE TALLER THAN THE FOLIAGE. ALL SHRUB SPECIES MAY BE PRUNED TO CONTROL HEIGHT IN THE FUTURE.

LANDSCAPING PLAN

TOWN OF BAILEYS HARBOR BEACH STORM WATER MANAGEMENT ANCLAM PARK BEACH 7976 STATE HWY 57, BAILEYS HARBOR, WISCONSIN	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>1</td> <td>4-23-08</td> <td>UPDATED PER SWCD COMMENTS</td> <td>SMW</td> </tr> </table>	NO.	DATE	DESCRIPTION	BY	1	4-23-08	UPDATED PER SWCD COMMENTS	SMW	<p>MILLER ENGINEERS SCIENTISTS An Employee Owned Company</p> <p>5308 S. 12th Street Sheboygan, WI 53081-8099 Phone 920-458-6164 Fax 920-458-0369 www.startwithmiller.com</p>
NO.	DATE	DESCRIPTION	BY							
1	4-23-08	UPDATED PER SWCD COMMENTS	SMW							
<p>SCALE: HOR. 1"=30'</p> <p>DATE: 2/4/08</p> <p>JOB: 17326-C-ANCLAM</p> <p>BY: SCJ</p> <p>CK: PGP</p> <p>SHEET 3 OF 4</p>										