Preliminary/Final Site Plan WITH USE VARIANCE PARKER AT SOMERSET CHILD CARE FACILITY Tax Map Sheet 85 Block 424.01, Lots 39.08 Franklin Township, Somerset County, New Jersey

SHT. NO.DRAWINGDESCRIPTION01CVR-1COVER SHEET02LEG-1LEGEND & GENERAL NOTES03EXC-1EXISTING CONDITIONS PLAN			
01 CVR-1 COVER SHEET 02 LEG-1 LEGEND & GENERAL NOTES 03 EXC-1 EXISTING CONDITIONS PLAN			
02LEG-1LEGEND & GENERAL NOTES03EXC-1EXISTING CONDITIONS PLAN			
03 EXC-1 EXISTING CONDITIONS PLAN			
04 CSP-OVR OVERALL PLAN			
05 CSP-1 SITE LAYOUT / GRADING / SOIL EROSION PLAN			
06 SED-1 SOIL EROSION AND SEDIMENT CONTROL NOTES			
07 SED-2 SOIL EROSION AND SEDIMENT CONTROL DETAILS			
08 L.3 COURTYARD LANDSCAPE PLAN			



DESIGN TEAM Site Design

T & M Associates

11 Tindall Road Middletown, NJ 07748 Phone: (732)-671-6400

Architect & Landscape Architect

Spiezle Architectural Group, Inc. 1395 Yardville-Hamilton Square Road, Suite 2A

Hamilton, NJ 08691 Phone: (866)-974-7666



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빌표 PORTI PORTI INALLY TED. & M ORIGI HIBIT Key Map SCALE: 1" = 500'



OWNER/APPLICANT

PARKER MEMORIAL HOMES 15 Dellwood Lane Somerset, NEW JERSEY 08873 Phone: (732)-545-4200

ATTORNEY

BOB SMITH & ASSOCIATES 216 STELTON ROAD, SUITE B-1

PISCATAWAY, NEW JERSEY 08854 Phone: (732)-752-3100

> SOMERSET ACCEPTAN

These plans are construction unle stamped "Accepted a staff member County Engineering construction should these plans unt accepted by

Acceptance of t two(2) years from

Zoning Requirements					
CURRENT ZONING: R–20 RESIDENCE ZONE EXISTING/PROPOSED USE: NURSING FACILITY (ENC)(V)(3) / CHILD CARE FACILITY (V)(1)					
REQUIREMENT	REQUIRED	EXISTING (LOT 39.08)	PROPOSED (LOT 39.08)		
MINIMUM LOT AREA (CORNER LOT)	26,000 SF	620,481 SF (14.244 AC.)	NO CHANGE		
MINIMUM LOT FRONTAGE (CORNER LOT)	130 FEET	907 FEET	NO CHANGE		
MIN. FRONT YARD SETBACK	35 FEET	134.2 FEET	NO CHANGE		
MIN. SIDE YARD SETBACK (SINGLE)	15 FEET	47.7 FEET	NO CHANGE		
MIN. SIDE YARD SETBACK (COMBINED)	30 FEET	244.8 FEET	NO CHANGE		
MIN. REAR YARD SETBACK	50 FEET	190.8 FEET	NO CHANGE		
ACCESSORY BUILDING SIDE YARD	15 FEET	N/A	N/A		
ACCESSORY BUILDING REAR YARD	25 FEET	N/A	N/A		
GARDEN SHED SIDE/REAR YARD	5 FEET	N/A	N/A		
MAXIMUM BUILDING HEIGHT	35 FEET (2.5 STORIES)	48 FEET (V)(4) (3 STORIES)	NO CHANGE		
MAXIMUM LOT COVERAGE (ALL BUILDINGS)	15%	10.22% (63,416 S.F.)	NO CHANGE		
MAXIMUM IMPERVIOUS COVERAGE (ALL IMPERVIOUS)	25%	38.28% (V)(5) (237,544 S.F.)	38.44% (V)(2) (238,486 S.F.)		
FLOOR AREA RATIO (F.A.R.)	N/A	0.217	NO CHANGE		

(ENC) - EXISTING NON-CONFORMITY (V) - VARIANCE

1) "D" VARIANCE REQUIRED FOR MODIFICATION OF AN EXISTING NON-PERMITTED USE. CHAPTER 112 SCHEDULE 1 PERMITTED USES.

2) "C" VARIANCE REQUIRED FOR EXCEEDING MAXIMUM IMPERVIOUS LOT COVERAGE PERMITTED. CHAPTER 112, SCHEDULE 2 LOTS AND YARDS REQUIREMENT

3) PER RESOLUTION NO. ZBA-18-0001 DATED 06/07/2018, EXISTING "D" VARIANCE APPROVED FOR INTENSIFICATION OF AN EXISTING NON-PERMITTED USE. CHAPTER 112 SCHEDULE 1 PERMITTED USES.

) PER RESOLUTION NO. ZBA-18-0001 DATED 06/07/2018, EXISTING "D" VARIANCE APPROVED FOR PRIOR BUILDING REQUIRED FOR HEIGHT BEING 10% MORE THAN MAXIMUM ALLOWED. CHAPTER 112 SCHEDULE 3 HEIGHT, COVERAGE AND BUILDING REQUIREMENT HEIGHT TO PARAPET IS 42.5 FEET

HEIGHT TO TOP OF MECHANICAL SCREEN ON ROOF IS 48'

) PER RESOLUTION NO. ZBA-18-0001 DATED 06/07/2018, EXISTING "C" VARIANCE APPROVED FOR EXCEEDING MAXIMUM IMPERVIOUS LOT COVERAGE PERMITTED. CHAPTER 112, SCHEDULE 2 LOTS AND YARDS REQUIREMENT

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	Parking Summary	
	EXISTING/PROPOSED USE: NURSING FACILITY (3) CHILD CARE FACILITY (1)	
	REQUIRED TOTAL NUMBER OF PARKING SPACES, EXISTING CONDITIONS (ORD. $112-45$) = (120 BEDS X 0.5 + 36 STAFF X 1 = 96)	96
	REQUIRED NUMBER OF HANDICAP ACCESSIBLE PARKING SPACES, EXISTING CONDITIONS (ADA) =	6
	TOTAL NUMBER OF EXISTING STANDARD PARKING SPACES =	173
	TOTAL NUMBER OF EXISTING HANDICAP ACCESSIBLE PARKING SPACES =	14
COUNTY	NURSING FACILITY: REQUIRED TOTAL NUMBER OF PARKING SPACES, PROPOSED CONDITIONS (ORD. $112-45$) = (120 BEDS X 0.5 + 36 STAFF X 1 = 96)	96
CE STAMP	CHILD CARE FACILITY: REQUIRED TOTAL NUMBER OF PARKING SPACES, PROPOSED CONDITIONS (ORD. $112-45$) (7 STAFF X 0.5 = 4)	= 4
	REQUIRED TOTAL NUMBER OF PARKING SPACES PROPOSED CONDITIONS =	100
	REQUIRED TOTAL NUMBER OF HANDICAP ACCESSIBLE PARKING SPACES, PROPOSED CONDITIONS (ADA) =	6
	TOTAL NUMBER OF PROPOSED STANDARD PARKING SPACES =	173
	TOTAL NUMBER OF PROPOSED HANDICAP ACCESSIBLE PARKING SPACES =	14
	(1) THOUGH NOT PERMITTED IN THE R-20 ZONE, NURSING HOMES ARE PERMITTED AS A CONDITIONAL USE IN G-B (GENERAL BUSINESS) ZONE. NURSING HOMES IN THE G-B ZONE HAVE A PARKING REQUIREMENT OF SPACE PER 2 BEDS AND 1 SPACE PER EMPLOYEE (MINIMUM OF 10), PER ORDINANCE CHAPTER 112-45. EMPLOYEES ARE ASSUMED TO BE ON SITE AT ANY GIVEN SHIFT. ASSISTED LIVING FACILITIES HAVE A PARK REQUIREMENT OF 0.50 PARKING SPACES PER ROOM, PER SECTION 5:21-4.14 OF THE RESIDENTIAL SITE IMPROVEMENT STANDARDS (RSIS).	↓ THE F 1 30 (ING
	(2) ACCORDING TO CHAPTER 112 – SCHEDULE 4 PARKING REQUIREMENTS, EDUCATIONAL INSTITUTIONS WHETH PUBLIC OR PRIVATE HAVE A PARKING REQUIREMENT OF 1 SPACE FOR EACH 2 EMPLOYEES. THERE WILL E MAXIMUM OF 7 EMPLOYEES (1 SUPERVISOR + 6 CLASSROOM STAFF / 1:5 MAX RATIO OF STAFF TO KIDS ANY ONE GIVEN TIME.	ER 3E A 3) AT
not accepted for ess this block is	APPROVED BY THE ZONING BOARD OF ADJUSTMENT:	
of the Somerset g Division. Bids for d not be based on til the plans are	ZONING BOARD CHAIRMAN DATE	
the County" hese plans expire the stamped date.	ZONING BOARD SECRETARY DATE	



THE

		RIGHT_OF_WAY			
12+00	13+00	TITLE CENTERLINE	10.00		17.00
		PROJECT BASELINE			
	<u> </u>	MUNICIPAL BOUNDARY LINE			
		ZONING LINE			
	[]	NO ACCESS LINE			
		EASEMENT LINE			
		DEED TRACT LINE			
		FORMER DEED TRACT LINE			
·		PIERHEAD LINE	·	·	
		R.O.W. ACQUISITION LINE			
		EASEMENT ACQUISITION LINE			
		BUILDING SETBACK LINE			
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		■WOOD FENCE LINE	0		0
		GUIDE RAIL LINE			
		GUIDE RAIL LINE			
		▲ → EDGE OF WOODS / TREES -			
		RAILROAD TRACK			
——— они —	OHU	OVERHEAD ELECTRICAL LINE	OHU		- OHU
ε	—— Е ———	ELECTRICAL LINE	——————————————————————————————————————	— E —	E
CATV —	CATV	COMMUNICATIONS LINE	CATV —		— CATV ———
w	—— w ——	WATER LINE	W	W	W
<i>IR</i>	— IR —— IR ——	IRRIGATION LINE	IR	IR	IR
G	G	NATURAL GAS LINE	G	G	G
s	s	SANITARY SEWER LINE	s	s	S
SL —	SL	SANITARY SEWER LATERAL	SL —		— SL ———
		STORM SEWER LINE			
		ROOF DRAIN			
T	T	TELEPHONE LINE	<i>T</i>	<i>T</i>	<i>T</i>
TC —	тс	TELEPHONE CONDUIT LINE	<i>TC</i>		— TC ———
UGU —	UGU	UNKNOWN UG UTILITY LINE	UGU —		- UGU
		SOIL TYPE LINE			
		WETLANDS DELINEATION LINE			
		WETLANDS BUFFER LINE			
·	· ·	FLOOD HAZARD LINE			· ·
	· · · · · · · · ·	- 500 YEAR FLOOD HAZARD LINE			<u> </u>
· · ·	· · <u> </u>	CAFRA BUFFER	· ·	- · · -	· ·
		EDGE OF WATER	· ,		· · · ·
		DRAINAGE CHANNEL CENTERLINE-			
		BOITOM OF DITCH			
·		DRAINAGE CHANNEL LIMIT	·	·	·
	TOP (C)	—— TOP OF DRAINAGE CHANNEL —			 Top (
				_ ^ ` _	`
•	•	LIMIT OF DISTURBANCE			
●	●				
SF —	SF				
SF18 —	SF18	SILT FENCE 18"			
SF30 —	SF30	SILI FENCE 30'			
——————————————————————————————————————	HB				
SSF —	SSF				
SOXX8 —	SOXX8				
SOXX12 —	S0XX12				
SOXX18 —	SOXX18				
SOXX24 —	S0XX24				

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	GENI	ERAL NOTES:
	1)	THESE GENERAL NOTES APPLY TO ALL SHEETS IN TH
	2)	THIS SET OF PLANS HAS BEEN PREPARED FOR PURPO UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL AL HAS BEEN REVISED TO INDICATE "ISSUED FOR CONS"
•	3)	THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING WITH THE CONSTRUCTION OF THE PROPOSED IMPRO
0	4)	THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED FROM THOSE REPRESENTED HEREON.
�	5) 6)	ALL OFFSITE DISTURBANCE MUST BE RESTORED TO C THE CONTRACTOR MUST PROVIDE A SCHEDULE OF C
	7)	NO SOIL CAN BE IMPORTED TO OR REMOVED FROM THE TOWNSHIP AS REQUIRED BY ORDINANCE. SOIL
•	8)	AN AS-BUILT PLAN PREPARED BY A LICENSE LAND SUN INSPECTION AND RELEASE OF PERFORMANCE BOND
	9) 10)	ALL PLANT RELOCATIONS/SUBSTITUTIONS SHALL BE DATUM REFERS TO THE NORTH AMERICAN VERTICAL
\bullet	<u>APPLI</u>	CABLE STANDARDS
Y	а)	N.J. DEPARTMENT OF TRANSPORTATION "STANDAR
	ii) iii)	CURRENT, PREVAILING MUNICIPAL AND/OR COUNT CURRENT, PREVAILING UTILITY COMPANY/AUTHOR
₩	iv) v)	STORMWATER MANAGEMENT STRUCTURES TO CO CURRENT OCCUPATIONAL SAFETY AND HEALTH AD
J.B.	12)	ALL PROPOSED WORK IS TO CONFORM TO THE LATE CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITE
T.C.B.	EXIST	CONFORMANCE.
_	13)	EXISTING UTILITY INFORMATION SHOWN HEREON H COMPLETENESS. THE CONTRACTOR SHALL VERIFY A
		ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.
♠	14)	CONTRACTOR TO CALL FOR A UTILITY MARK-OUT PR COMPANIES, THE CONTRACTOR SHALL ENGAGE THE
•	15) 16)	THE CONTRACTOR SHALL VERIFY THE LOCATION, GR ALL UTILITY POLE RELOCATIONS AS SHOWN ON THE
_	17)	THE CONTRACTOR SHALL RAISE/ADJUST ALL EXISTIN PROPOSED GRADE.
•	EROSI	
	18)	CONTRACTOR IS RESPONSIBLE INSTALLING AND MAI CONSERVATION DISTRICT GUIDELINES AND EROSION
@		LANDSCAPING/SOIL EROSION AND SEDIMENT CONT
	20)	CERTIFICATION FROM THE RESPECTIVE UTILITY AGE
•	21)	CONTRACTOR WILL BE RESPONSIBLE FOR COORDINA
•	22) <u>GRAD</u>	WHERE CONCRETE CURB OR SIDEWALK IS TO BE REN DES
	23)	SITE GRADING SHALL BE PERFORMED IN ACCORDAN GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE
•	24)	MODIFIED PROCTOR MAXIMUM DENSITY. MOISTUR
•	25)	CONTOURS AND SPOT ELEVATIONS INDICATE FINISH
	26) 27)	ALL WALKWAYS SHALL BE CONSTRUCTED WITH A M
	28)	ALL HANDICAP PARKING SPACES AND ACCESS AISLES
-	<u>MISC</u> 30)	SITE WORK THE SUITABILITY OF EXCAVATED MATERIAL FOR USE
	31)	SUB BASE MATERIAL FOR SIDEWALKS, CURBS AND P SUB BASE BE DEEMED UNSUITABLE, SUB BASE IS TO
	32)	MODIFIED PROCTOR DENSITY. ELECTRIC, TELEPHONE, CATV AND ALL OTHER WIRE S
	33)	STANDARDS ESTABLISHED BY THE SERVICING UTILITY STANDARD PARKING SPACES ARE TO BE STRIPED IN T
	34) 35)	HANDICAP PARKING SPACES ARE TO BE STRIPED IN E ALL EASEMENTS FOR PUBLIC PURPOSES SHALL BE DE
σ	36)	ALL BUILDING FOOTPRINT DIMENSIONS SHOWN HEI DIMENSIONAL INFORMATION.
0	37)	APPLICABLE CODE AND ORDINANCES: 1. WATER MAINS: 48 INCHES TO TOP OF PIPE BA
		WHICHEVER IS DEEPER. 2. SANITARY SEWER: DEPTH, ELEVATIONS AND G
$\widehat{}$		3. STORM SEWER: DEPTHS, ELEVATIONS, AND GI
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		BL
6.		37 SC
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T.B.R.		33 SC
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ELECTRICAL MANHOLE UTILITY POLE GUY ANCHOR JUNCTION BOX TRAFFIC CONTROL BOX COMMUNICATIONS BOX FIRE HYDRANT WATER VALVE WATER SERVICE VALVE WATER METER MONITORING WELL NATURAL GAS VALVE NATURAL GAS METER SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT STORM SEWER MANHOLE STORM SEWER INLET STORM SEWER HEADWALL/WINGWALL TELEPHONE MANHOLE TELEPHONE BOX STREET SIGN BUSH OR BRUSH SOIL BORING LOCATION HANDICAP PARKING SPACE SYMBOL HANDICAP RAMP TRUNCATED DOMES RESET EXISTING CASTING RECONSTRUCT EXISTING INLET CONVERT INLET TO MANHOLE TEST PIT LOCATION PROBING LOCATION TREE TO BE REMOVED BENCH MARK CALLOUT GUIDE RAIL ANCHORAGE EROSION CONTROL REINFORCEMENT

<u>EXISTING</u> Mon. Fnd 🗆 Pin FndO BM 🔶 Elec. Box 🗌 UP-#----Elec. MH 🔘 GA 🔶 LP 🗘 Junction Box 🗔 Traffic Control Box 🥅 CATV Box 💓 Hyd. 📿  $WV \odot$ WSV () WM  $\square$ GO GM  $\bigcirc$ San. MH 🕤 Storm MH (O) 'B' Inlet Tele MH 🔘 Tel Box 🗆 Sign 🕤 M.B. 🛛 (Size) o Bush 🕀  $\sim$ Hedges SB-# 🕀

BUILDINGS/DWELLINGS

CONCRETE MONUMENT

IRON PIN

BENCHMARK

ELECTRICAL BOX

UTILITY POLE

LIGHT POLE

MAILBOX

TREE

HEDGEROW

HEAVY DUTY

PAVEMENT

LIGHT DUTY

PAVEMENT

PAVEMENT

POROUS PAVEMENT

CONCRETE

HEAVY DUTY

CONCRETE

GRAVEL

WETLANDS

RIPRAP

BLANKET

TURF

MATTING

- ____ ____ — ____

## HIS SET OF PLANS.

OSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE L CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING STRUCTION".

- G EXISTING SITE CONDITIONS PRIOR TO BIDDING. ALL ITEMS AND STRUCTURES THAT INTERFERES OVEMENTS SHALL BE REMOVED. D PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY
- ORIGINAL CONDITION. CONSTRUCTION FOR REVIEW AND APPROVAL BEFORE START OF CONSTRUCTION. 1 THE SITE UNTIL A SOIL IMPORTATION OR EXPORTATION PERMIT HAS BEEN OBTAINED FROM REMOVAL SHALL BE IN ACCORDANCE WITH SECTION 112-8N OF THE ORDINANCE.
- URVEYOR IS TO BE SUBMITTED TO THE TOWNSHIP PRIOR TO ANY CERTIFICATE OF COCCUPANCY SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- L DATUM.
- ION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH: RD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS CURRENTLY AMENDED; TY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
- RITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS. NFORM TO NJDEP BEST MANAGEMENT PRACTICES MANUAL DATED FEBRUARY 2004.
- MINISTRATION (OSHA) STANDARDS. EST EDITION OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE AT THE TIME OF TED TO THE BUILDING CODE AND THE NEW JERSEY BARRIER FREE CODE FOR ADA
- AS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES , TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT
- RIOR TO THE START OF CONSTRUCTION. FOR AREAS NOT MARKED OUT BY THE UTILITY E SERVICES OF AN UNDERGROUND UTLIITY LOCATING SERVICE TO CLEARLY LOCATE UTILITIES. RATE, AND INVERT ELEVATION OF ALL EXISTING UTILITY STRUCTURES. ESE PLANS TO BE COORDINATED BY THE CONTRACTOR.
- NG UTILITY VALVE COVERS, FRAMES, GRATES, ETC., WITHIN THE CONSTRUCTION AREA TO THE
- INTAINING ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH RELEVANT SOIL IN CONTROL MEASURES PRESENTED IN THIS OF SET OF PLANS. S SURFACE OR LANDSCAPING SHALL BE RESTORED IN ACCORDANCE WITH THE TROL SEEDING SPECIFICATIONS.
- NCIES SHALL BE OBTAINED PRIOR TO DEMOLITION STATING THAT ALL UTILITIES SERVING THE OFF AND/OR REMOVED OR BOTH. IATING DISCONNECTIONS OF UTILITIES WITH THE REPRESENTATIVE LOCAL UTILITY COMPANY.
- MOVED, CONTRACTOR SHALL REMOVE TO THE NEAREST JOINT, UNLESS SPECIFIED OTHERWISE NCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATION SET FORTH BY THE
- RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING, OR UNSUITABLE MATERIALS AND /ED BY THE ENGINEER. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% RE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE OR 3% BELOW OPTIMUM. IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- HED GRADE. " INDICATES BOTTOM OF CURB OR GUTTER ELEVATION.
- 1AXIMUM 2% CROSS SLOPE
- S SHALL BE CONSTRUCTED WITH A MAXIMUM 2% GRADE IN ANY DIRECTION
- E AS BACKFILL SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER. PAVED SURFACES SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD D BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL AND COMPACTED TO 95%
- SERVED UTILITY EXTENSIONS AND SERVICES SHALL BE INSTALLED UNDERGROUND WITH
- TY COMPANY. WHITE LINES.
- BLUE LINES.
- DEDICATED TO THE TOWNSHIP, UNLESS OTHERWISE NOTED. EREON ARE APPROXIMATE. PLEASE REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING'S
- ARREL OR 6 INCHES BELOW THE FROST LINE (ESTABLISHED BY THE LOCAL BUILDING OFFICIAL),
- GRADES AS INDICATED ON DRAWINGS. RADES AS SHOWN ON DRAWINGS.

## 200' PROPERTY OWNERS LIST

LOCK-LOTS: 426-16,17,18,19,20&21 JSH, LINDA ANN FIFTEENTH STREET DMERSET NJ 08873 E: 31 FIFTEENTH ST

LOCK-LOT: 426-13,14,&15 DBINSON, MICHELLE 7 FIFTEENTH ST DMERSET NJ 08873 E: 37 FIFTEENTH ST LOCK-LOT: 426-22,23,24,25,26,&27 JSH, WARREN R & JOANNE C TRUSTEES SMITH, DUANE & MARY

2 FOURTEENTH ST DMERSET NJ 08873 E: 32 FOURTEENTH ST

LOCK-LOT: 426-29 UCHAK, DAVID & SANDRA 0 FOURTEENTH STREET DMERSET NJ 08873 E: 40 FOURTEENTH ST

LOCK-LOT: 431-16.01 SINUBI, ADEWOLE OLUFOLAMI ET TRUST 3 FOURTEENTH STREET DMERSET NJ 08873 E: 33 FOURTEENTH ST

LOCK-LOT: 431-14&15 ARIAGA, JOVENCIO & LYDIA 7 FOURTEENTH ST DMERSET NJ 08873 E: 37 FOURTEENTH ST

LOCK-LOT: 431-22.01 IVERA, ROSA & SEPULVEDA, DOROTEO 16 TILLMAN STREET LLSIDE, NJ 07205 E: 40 THIRTEENTH ST

LOCK-LOT: 431-28&29 ROSEMOND, DARREN & NADINE PRINCE 42 THIRTEENTH ST SOMERSET NJ 08873 RE: 42 THIRTEENTH ST

BLOCK-LOT: 432-16,17,18,19,20,&21 WILLIAMS, SHARON 18 MANNING ST

EDISON, NJ 08817 RE: 33 THIRTEENTH ST BLOCK-LOT: 432-14&15 TIERNO, DOMINICK J. & MARY BETH 41 THIRTEENTH ST SOMERSET NJ 08873

RE: 41 THIRTEENTH ST BLOCK-LOT: 432-22.01 GARCIA, ABEL RAY, GONZALEZ, SONIA 32 TWELFTH ST SOMERSET NJ 08873 RE: 32 TWELFTH ST

BLOCK-LOT: 442-1.03 MICHELL, MICHAEL D. & NANCY 31 TWELFTH ST SOMERSET NJ 08873 RE: 32 TWELFTH ST BLOCK-LOT: 432-25,26,27,28&29 BOLLERS, MOLLIE 38 TWELFTH ST SOMERSET NJ 08873

RE: 38 TWELFTH ST

BLOCK-LOT: 442-1.02 YANG, CHAORAN & PAN, YETING 37 TWELFTH STREET SOMERSET NJ 08873 RE: 37 TWELFTH ST

BLOCK-LOT: 442-2 GROSSO, ALAN M. & JANET 102 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 102 HOLLYWOOD AVE

BLOCK-LOT: 442-3 96 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 96 HOLLYWOOD AVE

BLOCK-LOT: 442-4 LUND, GARY A. & LOUISE M. 92 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 92 HOLLYWOOD AVE

BLOCK-LOT: 442-5 RENE, PATRICIA 90 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 90 HOLLYWOOD AVE

BLOCK-LOT: 442-6 BUNSCO, DENNIS M & LINDA MARIE 84 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 84 HOLLYWOOD AVE

BLOCK-LOT: 425.02-30 TOWNSHIP OF FRANKLIN 475 DEMOTT LA SOMERSET NJ 08873 RE: 36 FIFTEENTH ST BLOCK-LOT: 424.08-327 PATEL, UDAY & RINKU 2 RUE CHAGALL SOMERSET NJ 08873

RE: 2 RUE CHAGALL BLOCK-LOT: 424.18-9 SHANNON, RODNEY & KIM 1 RUE CHAGALL SOMERSET NJ 08873 RE: 1 RUE CHAGALL

BLOCK-LOT: 424.18-10 TENJERLA, SRINIVAS N. & SAILAJA 61 RUE CHAGALL SOMERSET NJ 08873 RE: 61 RUE CHAGALL

BLOCK-LOT: 424.08-367 YANG, ROBERT & AGATHA 68 RUE CHAGALL SOMERSET NJ 08873 RE: 68 RUE CHAGALL

BLOCK-LOT: 424.08-368 TOWNSHIP OF FRANKLIN 475 DEMOTT LA SOMERSET NJ 08873 RE: 107 DEMOTT LA BLOCK-LOT: 424.01-39.04 DIOCESE OF METUCHEN

PO BOX 191 METUCHEN NJ 08840 RE: 5 DELLWOOD LA

- 4. ELECTRICAL CONDUITS: 24 INCHES MINIMUM TO TOP OF CONDUIT OR AS REQUIRED BY NEC 300-5, NEC 710-36 CODES, OR THE LOCAL UTILITY COMPANY REQUIREMENTS, WHICHEVER IS DEEPER.
- 5. TV CONDUITS: 18 INCHES MINIMUM TO TOP OF CONDUIT OR AS REQUIRED BY THE LOCAL UTILITY COMPANY, WHICHEVER IS DEEPER. 6. TELEPHONE CONDUITS: 18 INCHES MINIMUM TO TOP OF CONDUIT OR AS REQUIRED BY THE UTILITY COMPANY, WHICHEVER IS DEEPER. 7. GAS MAINS AND SERVICE: 30 INCHES MINIMUM TO TOP OF PIPE, OR AS REQUIRED BY THE UTILITY COMPANY, WHICHEVER IS DEEPER. FILL MATERIAL IMPORT
- 38) CLEAN SOIL BROUGHT TO THE SITE FOR FILL MUST MEET FOLLOWING CRITERIA
- i) CERTIFIED TO BE BELOW NJDEP SOIL REMEDIATION STANDARDS INCLUDING THE RESIDENTIAL AND NON-RESIDENTIAL DIRECT CONTACT AND THE IMPACT TO GROUNDWATER CRITERIA
- ii) CERTIFICATION TO BE BASED ON THE FOLLOWING SAMPLING AND ANALYSIS
- (1) THE ANALYTICAL PARAMETERS REQUIRED FOR THESE SAMPLES ARE FULL TARGET COMPOUND LIST/TARGET ANALYTE LIST (TCL/TAL)+30 AND EXTRACTABLE PETROLEUM COMPOUNDS (EPH). ADDITIONALLY, IF THE TOTAL CHROMIUM IS DETECTED ABOVE 20 PPM, THE SAMPLES NEED TO BE ANALYZED FOR HEXAVALENT CHROMIUM. (2) SAMPLING FREQUENCY SHALL BE ONE DISCRETE SAMPLE FOR EVERY 20 YARDS OF FILL FOR THE FIRST 100 YARS AND 1 ADDITIONAL DISCRETE SAMPLE FOR EACH 100 YARDS. WHERE DONOR OF THE CLEAN FILL CAN DEMONSTRATE THAT THEIR SAMPLING OF CLEAN FILL COMPLIES WITH
- THE DEFAULT VALUES IN TABLE 2 OF THE NJDEP GUIDANCE DOCUMENT "FILL MATERIAL GUIDANCE FOR SRP SITES", APRIL 2015 VERSION 3.0, THEY MAY PRESENT THAT IN LIEU OF THE ABOVE SAMPLING FREQUENCY. 39) CLEAN SAND, GRAVEL OR ROCK BROUGHT TO THE SITE FOR FILL FROM A LICENSED QUARRY/MINE MUST THE MEET FOLLOWING CRITERIA:
- i) EXCAVATED FROM UNDISTURBED GEOLOGIC FORMATIONS; ii) OBTAINED FROM A LICENSED QUARRY/MINE;
- iii) NOT LOCATED ON OR IMPACTED BY OTHER CONTAMINANT SOURCES;
- iv) NOT COMMINGLED WITH ANY OTHER MATERIAL;
- v) NOT KNOWN OR SUSPECTED OF BEING CONTAMINATED; vi) NOT ADVERSELY IMPACTED BY DISCHARGES OF HAZARDOUS MATERIALS OR CHEMICAL APPLICATION;
- vii) NOT AFFECTED BY CONDITIONS OR PROCESSES THAT WOULD RESULT IN THE INTRODUCTION OF CONTAMINANTS INTO THE LICENSED QUARRY/MINE MATERIAL IN CONCENTRATIONS ABOVE REGULATORY CONCERN; AND
- viii) NOT AFFECTED BY CONDITIONS OR PROCESSES THAT WOULD INCREASE THE CONCENTRATIONS OF CONTAMINANTS ALREADY PRESENT IN THE LICENSED QUARRY/MINE MATERIAL TO CONCENTRATIONS ABOVE REGULATORY CONCERN. ix) A COPY OF THE QUARRY/MINE LICENSE/PERMIT MUST BE PROVIDED, AND A CERTIFICATION FROM THE LICENSED QUARRY/MINE IS REQUIRED
- WHICH SHOULD INDICATE THE SOURCE OF THE DELIVERED LICENSED QUARRY/MINE MATERIAL AND STATE THAT THE LICENSED QUARRY/MINE MATERIAL HAS NOT BEEN SUBJECT TO A DISCHARGED HAZARDOUS SUBSTANCE AT ANY TIME. **REFERENCE MAPS:**
- 40) REFER TO PLAN ENTITLED, "PRELIMINARY/FINAL SITE PLAN WITH USE VARIANCE, PARKER AT SOMERSET, TAX MAP SHEET 85, BLOCK 424.01, LOT 39.08, FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY", PREPARED BY T&M ASSOCIATES, DATED JANUARY 15, 2018, LAST REVISED JULY 25, 2019.
- 41) REFER TO SURVEY ENTITLED, "THE FRANCIS E. PARKER MEMORIAL HOME, INC., MCCARRICK SITE, BOUNDARY AND TOPOGRAPHIC SURVEY, BLOCK 424.01, LOT 39.08, FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY, ALTA/ACSM (2011) LAND TITLE SURVEY", PREPARED BY T&M ASSOCIATES, DATED JANUARY 19, 2016.

BLOCK-LOT: 424.01-48 RODENBERG, KATHERINE I 67 DEMOTT LA SOMERSET NJ 08873 RE: 67 DEMOTT LA

BLOCK-LOT: 424.01-47 LINDO, OSCAR 63 DEMOTT LANE SOMERSET NJ 08873 RE: 63 DEMOTT LA BLOCK-LOT: 424.01-46 MANGIONE, LOUIS A. JR & JACQUELINE 59 DEMOTT LANE SOMERSET NJ 08873 RE: 59 DEMOTT LA

BLOCK-LOT: 424.01-45 PELESKO, RAYMOND & JUDITH A. 55 DEMOTT LA SOMERSET NJ 08873 RE: 55 DEMOTT LA

BLOCK-LOT: 424.01-44 BUDA, DANIEL 51 DEMOTT LANE SOMERSET NJ 08873 RE: 51 DEMOTT LA

BLOCK-LOT: 424.01-43 MURILLO, MALYN 47 DEMOTT LA SOMERSET NJ 08873 RE: 47 DEMOTT LA

BLOCK-LOT: 424.01-42 BIONDI, RALPH J & MICHELLE 43 DEMOTT LA SOMERSET NJ 08873 RE: 43 DEMOTT LA

BLOCK-LOT: 424.01-41 TATUM, HERBERT L & ANTOINETTE M 39 DEMOTT LA SOMERSET NJ 08873 RE: 39 DEMOTT LA

BLOCK-LOT: 424.01-39.07 AVALONBAY COMMUNITIES, INC%TAX DEPT. 671 N. GLEBE RD-STE 800 ARLINGTON, VA 22203 RE: 1350 EASTON AVE

BLOCK-LOT: 424.01-39.09 CENTER FOR GREAT EXPECT% PEG WRIGHT 19 DELLWOOD LA SOMERSET NJ 08873 RE: 19 DELLWOOD LA





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<u>LEGEND</u>

RUBBER SAFETY SURFACE LIMITS

•

1) PORTION OF SITE CONDITION UNDER CONSTRUCTION

10' 5' 0 10' 1" = 10'



## <u>SOMERSET-UNION COUNTY</u> BASIN COMPACTION NOTES

- 1. Immediately prior to seeding, the surface should be scarified 6" to 12" inches where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
- Inspect site just before seeding. If traffic has left the soil compacted, the area must be retiled and firmed in accordance with above.
- 3. Immediately prior to topsoiling, the surface should be scarified 6" to 12" inches where there has been soil compaction. This will help insure a good bond between the topsoil and subsoil. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
- 4. Soil compaction resulting from land grading activities can impact the infiltration rate of the soil. Restoration of compacted soils through deep tillage (6" to 12") and the addition of organic matter may be required in planned pervious areas to enhance the infiltration rate of the disturbed soil. This practice is permissible only where there is no danger to underground utilities (cable, irrigation systems, etc.).
- 5. To prevent compaction of the subsoil which will reduce its infiltration capacity, basins should be excavated with light earth moving equipment, preferably with tracks or over-sized tires rather than the normal rubber tires,. Once the final construction phase is reached, the floor of the basin shall be deeply tilled with a rotary tiller or disc harrow and smoothed over with a leveling drag or equivalent grading equipment.
- 6. For basins, annual tilling operations maintain infiltration capacity. These tilled areas should be re-vegetated immediately to prevent erosion. Deep tilling can be used to breakup clogged surface layers followed by regarding and leveling. Sand or organic matter can be tilled into the basin floor to promote a restored infiltration capacity. Sediment removal procedures should not be undertaken until the basin is thoroughly dry. The top layer should be removed by light equipment to prevent compaction. The remaining soil can be retiled and disturbed vegetation replanted.

FINDECT INFORMATION. FILE PATH: G:\Projects\PARK\00047\Plans\ FILE NAME: PARK00047_SHT06-SHT07_SED.dwg LAST SAVED DATE AND TIME: 11 May 2020, 5:50PN LAST SAVE PY: BKnouf

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## <u>STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL</u> STABILIZATION

<u>Definition</u> Establishment of temporary vegetative cover on soils exposed for periods of two to 6 months which are not being graded, not under active construction or not scheduled for B. permanent seeding within 60 days.

<u>Purpose</u> To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.

<u>Water Quality Enhancement</u> Provides temporary protection against the impacts of wind and rain, slows the overland movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

#### <u>Where Applicable</u> On exposed soils that have the potential for causing off-site environmental damage.

Methods and Materials

- Site Preparation
   Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading, p. 19-1, Standards for Soil Erosion and Sediment Control in New Jersey (S.S.E.SC.N.J).
- B. Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways.
- See Standard 11 through 42 (S.S.E.S.C.N.J.).
  C. Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil composition. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
- . Seedbed Preparation A Apply ground limestone and fertilizer according to soil test recommendations such as those offered by Rutgers Cooperative Extension. Soil sample mailers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-20-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise. Apply limestone at the rate of 2 tons/acre unless a soil test indicated otherwise. Calcium carbonate is the equivalent and standard for measuring the ability of liming materials to neutralize soil acidity and supply calcium and magnesium to grasses and legumes. The table below is a general guideline for limestone application.

TABLE: LIMESTONE* APPLICAT	ION RATE BY SO	DIL TEXTURE	
SOIL TEXTURE	TONS/ACRE	LBS./1,000 SQ. FT.	
Clay, clay loam, and high organic soil	3	135	
Sandy Ioam, Ioam, silt Ioam	2	90	
Loamy sand, sand	1	45	
* – Pulverized dolomitic limestone is preferred for most soils south of the New Brunswick-Trenton line.			

B. Work lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow, or other suitable equipment. The final harrowing or

discing operation should be on the general contour, C. Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retilled as above.

D. Soils high on sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1 of the Standards for Soil Erosion and Sediment Control in New Jersey. discing operation should be on the general contour. Continue tillage until a reasonably uniform seedbed is prepared.

III. Seeding A. Select seed from recommendations in table.

	SEE RATE	DING S (1)	ΟΡΤΙΜ	OPTIMUM SEED DEPTH (4)			
SEED TYPES	(POI	JNDS)	Based on	Based on Plant Hardiness Zone (3)			
	Per Acre	Per 1,000 Sq.Ft.	ZONE 5b & 6a	ZONE 6b	ZONE 7a & 7b		
COOL SEASON GRASSES							
Perennial Ryegrass	100	1.0	3/15-6/1	3/15/2015	2/15-5/1	0.5	
			8/9-9/15	8/15-10/1	8/15-10/15		
Spring Oats	86	2.0	3/15-6/1	3/1-5/15	2/15-5/1	1.0	
			8/1-9/15	8/15-10/1	8/15-10/15		
Winter Berley	96	2.2	8/1-9/15	8/15-10/1	8/15-10/15	1.0	
Winter Cereal Rye	112	2.8	8/1-11/1	8/1-11/1 5	8/1-12/15	1.0	
WARM SEASON GRASSES							
Pearl Millet	20	0.5	6/1-8/1	5/15-8/1 5	5/1-9/1	1.0	
Millet (German or Hungarian)	30	0.7	6/1-8/1	5/15-8/1 5	5/1-9/1	1.0	
Weeping Lovegrass	5	5.0	6/1-8/1	5/15-8/1 5	5/1-9/1	1.0	
(1) - Seeding rate for warm season grass, shall be adjusted to reflect the amount of							

(2) - May be planted throughout summer if soil moisture is adequate or can be irrigated
 (3) - Plant Hardiness Zone (see below)

- Zone 5b (-10 to -15) Portions of Sussex and Warren Counties Zone 6a (-5 to -10) Portions of Sussex, Warren, Passaic, Morris, Somerset and Hunterdon counties. Zone 6b (0 to -5) Portions of Bergen, Camden, Essex and Gloucester, Hunterdon,
- Mercer, Middlesex, Hudson, Monmouth, Ocean, Burlington, Morris, Passaic, Somerset, Union, Atlantic, Cumberland, and Cape May counties.
- Zone 7a (5 to 0) Portions of Camden, Gloucester, Salem, Cumberland, Cape May, Atlantic, Burlington, Ocean, and Monmouth counties. Zone 7b (10 to 5) Portions of Cape May, Atlantic, Ocean and Monmouth counties.
- (4) Twice the depth for sandy soils
   B. Conventional Seeding Apply seed uniformly by hand, cyclone (centrifugal) seeder,
- b. Conventional seeding Apply seed uniformly by hand, cyclone (centridgal) seeder, drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil, to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on course textured soil.
- C. Hydroseeding is a broadcast seeding method usually involving a truck or trailer mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short fibered mulch may be applied with a hydroseeder following seeding. Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. Poor seed to soil contact occurs reducing seed germination and growth. Hydroseeding may be used for areas too steep may used for areas too steep for conventional equipment to traverse or too obstructed with rocks, stumps, etc.
- D. After seeding, firming the soil with a corrugated roller will assure good seed—to—soil contact, restore capaillarity, and improve seeding emergence. This is the preferred method. When performing on the contour sheet erosion method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
- Mulching is required on all seeding. Mulch will insure against erosion pbefore grass is established and will promote aster and earlier establishment. (The existence of vegetation sufficient to control soil erosion shall be deemed in compliance with this mulching requirement.
- A. Straw or Hay. Unrotted small grain straw, hay free of seeds, or salt hay to be applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimper is used instead of liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed. Application. Spread uniformly by hand mechanically so that approximately 85% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section. Anchoring should be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area. steepness of slopes, and costs.
- 1. <u>Peg and Twine</u> Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss—cross and square pattern. Secure twine around each peg with two two or more round turns.
- 2. <u>Mulch Nettings</u> Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
- 3. <u>Crimper (mulch anchoring tool)</u> A tractor-drawn implement, somewhat like a discharrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversed by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or or adhesive agent is require.
- 4. <u>Liquid Mulch-Binders</u> May be used to anchor salt hay or straw mulches.
  a. Applications should be heavier at edges where wind catches the mulch, in valleys, and at another strategy of barrier of strategy of strategy of strategy.
- at crests of banks. Remainder of area should be uniform in appearance. b. Use one of the following:
- (1) Emulsified asphalt (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, and CRS-2). Apply 0.04 gal./sq. yd. or 194 gal./acre on flat slopes less than 8 feet high. On slopes 8 feet or more high, use 0.075 gal./sq. yd. or 363 gal./acre. These materials may be difficult to apply uniformly and will discolor surfaces.
- (2) Organic and Vegetable Based Binders Naturally occurring, powder based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Use at rates and conditions as recommended as recommended by the manufacturer to anchor materials. Many new products are available, some of which may need further evaluation for use in this state.

(3) Synthetic binders – High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersible in water. It may be applied at rates recommended by the manufacturer and remain tacky until germination of grass.
 B. Wood-fiber or paper-fiber mulch. Shall be made from wood, plant fibers or paper

containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder. This mulch shall not be mixed in the tank with the seed. Use is limited to flatter slopes and during optimum seeding periods in spring and fall. Pelletized mulch. Compressed and extruded paper and/or wood fiber product, which

may contain co-polymers, tackifiers, fertilizers and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturers recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs/1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired or on sites where straw mulch and tackifier agent are not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and

## STANDARD FOR STABILIZATION WITH MULCH ONLY

<u>Definition</u> Stabilizing exposed soils with non-vegetative material.

expansion of the mulch to provide soil coverage.

To protect exposed soil surfaces from erosion damage and to reduce offsite environmental damage. Water Quality Enhancement

Provides temporary mechanical protection against wind or rainfall induced soil erosion until permanent vegetative cover may be established. Where Applicable

This practice is applicable to areas subject to erosion, where the season and other conditions may not be suitable for growing an erosion resistant cover or where stabilization is needed for a short period until more suitable protection can be applied. <u>Method and Materials</u>

1. Site Preparation

- A. Grade as needed and feasible to permit the use of conventional equipment and mulch anchoring. All grading should be done. in accordance with Standards for Land Grading, pg. 19–1.
   B. Install needed erosion control practices or facilities such as diversions, arade
- Install needed erosion control practices of facilities such as alversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42.
   Protective Materials
- A. Unrotted small—grain straw, or salt hay 2.0 to 2.5 tons per acre is spread uniformly at 90 to 115 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binders, or netting tie down. Other suitable materials may be used if approved by the Soil Conversation District.
- B. Asphalt emulsions recommended at the rate of 600 to 1,200 gallons per acre. This is suitable for a limited period of time where travel by people, animals, or machines is not a problem.
- C. Synthetic or organic soil stabilizers may be used under suitable conditions and in quantities as recommended by the manufacturer.
   D. Wood-fiber or paper-fiber mulch at the rate of 1,500 pounds per acre (or according
- to the manufacturer's requirements) may be applied by a hydroseeder. E. Mulch netting, such as paper jute, excelsior, cotton, or plastic, may be used.
- F. Woodchips applied uniformly to a minimum depth of 2 inches may be used. Woodchips will not be used on areas where flowing water could wash them into an inlet and plug it.
- G. Gravel, crush stone, or slag at the rate of 9 cubic yards per 1,000 sq. ft. applied uniformly to a minimum depth of 3 inches may be used. Size 2 or 3 (astm c-33) is recommended.
   Multiple production abound be accountiable immediately often algorithms and the second states.
- 3. Mulch anchoring should be accomplished immediately after placement of hay or straw mulch to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area and steepness of slopes.
  A. Peg and Drive Drive 8 to 10 inch peg to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before of after applying mulch.
- Secure mulch to soil surface by stretching twine between pegs in a cris-cross and square pattern. Secure twine around each peg with two or more round turns. B. Mulch nettings — Staple paper, cotton, mad plastic nettings over mulch. Use a
- degradable netting in areas to be mowed. Netting is usually available in rolls 4 feet wide and 300 feet long.
   C. Crimper Mulch Anchoring Coulter Tool A tractor-drawn implement especially designed
- to punch and anchor mulch into the soil surface. This practice affords maximum erosion control, but its use is limited to those slopes upon which the tractor can operate safely. Soil penetration should be about 3 to 4 inches. On sloping land, the operation should be on the contour.
   D. Liguid Mulch Binders
- Application should be heavier at edge where wind catches the mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance.
- 2. Use one of the following:
- a. Organic and Vegetable Based Binders Naturally occurring, powder based hydrophilic material that mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membrane networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect of impede growth of turfgrass. Vegetable based gels shall be applied at rates and weather conditions recommend by the manufacturer.
- b. Synthetic Binders High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersible in water. It shall be applied at rates and weather conditions recommended by the manufacturer and remain tacky until germination of grass.

## DUST CONTROL NOTES

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

<u>MULCHES</u> – SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (SEE THIS SHEET). <u>VEGETATIVE COVER</u> – SEE STANDARD FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND PERMANENT STABILIZATION WITH SOD.

(SEE THIS SHEET). <u>SPRAY-ON ADHESIVES</u> - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

 TILLAGE
 — TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY

 EMERGENCY
 MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN

 PLOWING ON WINDWARD SIDE OF SITE.
 CHISEL—TYPE PLOWS SPACED ABOUT 12 INCHES

APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT. <u>SPRINKLING</u> – SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

<u>CALCIUM CHLORIDE</u> – SHALL BE IN THE FORM OF LOOSE, DRY GRANULATES OF FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL

TABLE 16-1: DUST CONTROL MATERIALS			
MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	235
POLYACRYLAMIDE (PAM) – SPRAY ON	APPLY ACCORDIN INSTRUCTIONS. M	G TO MANUFACTUR	ER'S AS AN ADDITIVE
POLYACRYLAMIDE (PAM) - DRY ON	PRECIPITATE SUS	PENDED COLLOIDS.	E AND
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

# STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL

<u>Definition</u> Establishment of permanent vegetative cover on exposed soils where perennial vegetation is needed for long term protection.

To permanently stabilize the soil, assuring conservation of soil and water, and to enhance the environment.

<u>Water Quality Enhancement</u> Slows the overland movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

<u>Where Applicable</u> On exposed soils that have a potential for causing off—site environmental damage.

#### Methods and Materials I. <u>Site Preparation</u>

Seedbed Preparation

- A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be in accordance with Standards for Land Grading, p. 19–1, Standards for Soil Erosion and Sediment Control in New Jersey.
   B. Install needed erosion control practices or facilities such as diversions, arade
- stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42, Standards for Soil Erosion and Sediment Control in New Jersey.
- C. Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
- Apply ground limestone and fertilizer according to soil test recommendations such as those offered by Rutgers Cooperative Extension. Soil sample mailers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-20-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise. Apply limestone in accordance with the table below and the results of soil testing. Calcium carbonate is the equivalent and standard for measuring the ability of liming materials to neutralize soil acidity and supply calcium and magnesium to grasses and legumes. Table below is a general guideline for limestone application rates.
- TABLE:LIMESTONE* APPLICATIONRATEBYSOILTEXTURESOILTEXTURETONS/ACRELBS./1,000SQ.FT.Clay, clay loam, and high organic soil3135Sandy loam, loam, silt loam290Loamy sand, sand145* -Pulverized dolomitic limestone is preferred for most soils south of the<br/>New Brunswick-Trenton line.
- B. Work lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow, or other suitable equipment. The final harrowing or discing operation should be on the general contour. Continue tillage until a reasonably uniform seedbed is prepared.
- C. Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.). D. High acid producing soil. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See standard for Management of High Acid Producing Soils.

### III. <u>Seeding</u> A. Seed mix shall be as follows:

SEED N	MIXTU	IRE #G		
KIND OF SEED	MINIMUM % PURITY	MINIMUM % GERMINATION	APPLICATION RATE POUNDS/ACRE	
REBEL' JR. TALL FESECUE	95	80	60	
BARON' KENTUCKY BLUEGRASS	95	85	50	
PALMER 2' PERENNIAL RYEGRASS	95	85	30	
JAMESTOWN 2' CHEWING FESCUSE	95	85	60	
TOTAL			200	
SEED MIXTURE #15				
KIND OF SEED	MINIMUM % PURITY	MINIMUM % GERMINATION	APPLICATION RATE POUNDS/ACRE	
HARD FESECUE	90	90	120	
BROOKLAWN' KENTUCKY BLUEGRASS	90	90	40	

MANHATTAN 4' PERENNIAL RYEGRASS	95	75	40
TOTAL			200

Optimal Seeding Dates - March 1 to May 15 and August 15 to October 15

- B. Conventional Seeding Apply seed uniformly by hand, cyclone (centrifugal) seeder drop seeder, drill or cultipacker seeder. Except for drilled, hydroseeded or cultipacker seedings, seed shall be incorporated into the soil within 24 hours of seedbed
- preparation to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse textured soil. Hydroseeding is a broadcast seeding method usually involving a truck or trailer mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short fibered mulch may be applied with a hydroseeder following seeding. Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. Poor seed to soil contact occurs reducing seed germination and growth. Hydroseeding may be used for areas too steep for conventional equipment to traverse or too obstructed
- with rocks, stumps, etc. D. After seeding, firming the soil with a corrugated roller will assure good seed—to—soil contact, restore capillarity, and improve seeding emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on the site will be maximized.
- IV. <u>Mulching</u> Mulching is required on all seeding. Mulch will insure against erosion before grass is established and will promote faster and earlier establishment. (The existence of vegetation sufficient to control soil erosion shall be deemed compliance with this mulching requirement).
- A. Straw or Hay. Unrotted small grain straw, hay free of seeds, or salt hay to be applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimper is used instead of liquid mulch (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed. Application. Spread uniformly by hand mechanically so that approximately 85% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section. Anchoring should be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.
- . <u>Peg and Twine</u> Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss—cross and square pattern. Secure twine around each peg with two or more round turns.
- 2. <u>Mulch Nettings</u> Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
- 5. <u>Crimper (mulch anchoring tool)</u> A tractor—drawn implement, somewhat like a disc—harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
- 4. <u>Liquid Mulch-Binders</u> May be used to anchor salt hay or straw mulches. a. Applications should be heavier at edges where wind catches the mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance. b. Use one of the following:
- (1) Emulsified asphalt (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, and CRS-2). Apply 0.04 gal./sq. yd. or 194 gal./acre on flat slopes less than 8 feet high. On slopes 8 feet or more high, use 0.075 gal./sq. yd. or 363 gal./acre. These materials may be difficult to apply uniformly and will discolor surfaces.
- (2) Organic and Vegetable Based Binders Naturally occurring, powder based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
- (3) Synthetic binders High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersible in water. It shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.
- B. Wood-fiber or paper-fiber mulch. Shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder. This mulch shall not be mixed in the tank with the seed. Use is limited to flatter slopes and during optimum seeding periods in spring and fall.
- C. Pelletized mulch. Compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers and coloring agents. The dry pellets, when applied to a seeded area and watered, from a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturers recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs per 1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired or on sites where straw mulch and tackifier agent are not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.
- V. <u>Irrigation (where feasible)</u> If soil moisture is deficient, and mulch is not used, supply new seedings with adequate water (a minimum of 1/4 inch twice a day until vegetation is well established). This is especially true when seedings are made in abnormally dry or hot weather or on droughty sites.
- VI. <u>Topdressing</u> Since slow release nitrogen fertilizer (water insoluble is prescribed in Section II.A. Seedbed preparation in this standard, no follow-up of topdressing is mandatory. An exception may be made where gross nitrogen deficiency exists to the extent that turf failure may develop. In that instance, topdress with 10-10-10 or equivalent at 400 pounds per 1,000 square feet.
- VII. <u>Establishing Permanent Vegetative Stabilization</u> The quality of permanent vegetation rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rate is required when a Report of Compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in application rates may be used when permanent vegetation is established prior to requesting a Report of Compliance from the district. This rate applies to all methods of seeding. Establishing permanent vegetation means 80% vegetative cover (of the seeded species) and mowed once.

#### SOMERSET-UNION SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

- The Somerset—Union Soil Conservation District shall be notified in writing 48 hours in advance of any land disturbing activity.
- 2. All Soil Erosion and Sediment Control practices shall be installed prior to any major soil disturbances, or in their proper sequence and maintained until permanent protection is
- 3. Any Disturbed areas that will be left exposed more than 30 Days and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of a temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of two (2) tons per acre, according to NJ State Standards
- 4. Permanent Vegetation shall be seeded or sodded on all exposed areas within ten (10) days after final grading. Mulch will be used for protection until seeding is established
- 5. All work shall be done in accordance with the NJ State Standards for Soil Erosion and Sediment Control in New Jersey.
  6. A sub-base course will be applied immediately following rough grading and installation of improvements in order to stabilize streets, roads, driveways and parking areas. In areas where no utilities are present, the sub-base shall be installed within 15 days or
- preliminary grading. 7. Immediately following initial disturbance or rough grading all critical areas subject to erosion (i.e.: steep slopes, roadway embankments) will receive a temporary seeding in combination with straw mulch or a suitable equivalent, at a rate of two (2) tons per acre, according to the NJ State Standards.
- 8. Any steep slopes receiving pipeline installation will be backfilled and stabilized daily, as the installation proceeds (i.e.: slopes greater that 3:1)
- 9. Traffic control Standards require the installation of a 50'x30'x6"pad of 1 1/2" or 2" stone, at all construction driveways, immediately after initial site disturbance.
  10. At the time when the site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover, shall be removed or treated in such a way that will
- permanently adjust the soil conditions and render it suitable for vegetative ground cover. If the removal or treatment of the soil will not provide suitable conditions, non-vegetative means of permanent ground stabilization will have to be employed.
  11. In that NJSA 4:24-39 et seq., requires that no Certificate of Occupancy be issued before the provisions of the Certified Plan for Soil Erosion and Sediment Control have
- been complied with for permanent measures, all site work for site plans and all work around individual lots in subdivisions, will have to be completed prior to the District issuing a Report of Compliance for the issuance of a Certificate of Occupancy by the Municipality.
  12. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage
- system becoming operational. 13. Any changes to the Certified Soil Erosion and Sediment Control Plan will require the
- submission of revised Soil Erosion and Sediment Control Plans to the District for re-certification. The revised plans must meet all current NJ State Soil Erosion & Sediment Control Standards. 14. The Somerset-Union Soil Conservation District shall be notified of any changes in
- ownership. 15. Mulching to the NJ Standards is required for obtaining a Conditional Report of
- Compliance. Conditionals are only issued when the season prohibits seeding. 16. Contractor is responsible for keeping all adjacent roads clean during life of construction
- project. 17. The developer shall be responsible for remediating any erosion or sediment problems that arise as a result of ongoing construction at the request of the Somerset—Union Soil Conservation District.
- 18. Hydro seeding is a two- step process. The first step includes seed, fertilizer, lime, etc., along with minimal amounts of mulch to promote consistency, good seed to soil contact, and give a visual indication of coverage. Upon completion of seeding operation, hydro-mulch should be applied at a rate of 1500 lbs. per acre in second step. The use of hydro-mulch, as opposed to straw, is limited to optimum seeding dates as listed in the NJ Standards.
- Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering operations to minimize soil transfer. Any dewatering methods used must be in accordance with the Standard for Dewatering.
   Revised 5/15/15

	CONSTRUCTION SEQUENCE						
No.	START (DAY)	DURATION (DAYS)	TASK				
1	-30	0	Notify Delaware & Raritan Canal Commission 30 days of construction.				
2	-3	0	Notify IN WRITING Somerset—Union County Soil Conserve 72 hours prior to any land disturbance.				
3	1	1	Install soil erosion control measures as shown on soil sediment control plans. Install temporary skimmer discl				
4	1	15	Rough grade site to be developed, stockpiling any exce and other material into separate, temporary stockpiles surrounded by silt fence. If stockpiles or other disturber to be left in a disturbed state for more than 30 days be subject to construction traffic, they shall receive ter seeding immediately. If season prevents establishment of temporary cover, disturbed areas shall be mulched with equivalent material at a rate of 2 tons per acre and in permanent stabilizaion in basin.				
5	1	45	Construct underground detention basin and porous pave Construct existing detention basin improvements. Install sediment riser. Excavate and fill where shown on the				
6	15	120	Fine grade proposed parking lots and building pad.				
7	30	15	Construct building.				
8	25	15	Install stormwater runoff collection systems beginning v downstream—most structures.				
9	25	1	Install inlet protection at each drainage structure.				
10	35	15	Install remaining utilities: sanitary sewer, water, gas, electric/telephone/cable and lighting. Coordinate with u companies.				
11	50	10	Install curbs in parking lots.				
12	65	5	Lay subbase in parking lots and aisles.				
13	75	10	Lay base over stabilized subbase.				
14	85	5	Stabilize all disturbed areas.				
15	90	5	Overseed bare areas.				
16	95	5	Install permanent stabilization where required. De—silt b remove sediment riser after vegetation is established				
17	100	5	Construct sidewalks.				
18	100	15	Lay surface course over base course.				
19	100	30	Install children playground area.				
20	115	30	Install permanent landscaping and sidewalk furniture.				
21		2	Remove all erosion control measures when permanent established				

Note: The detention basin shall be cleaned periodically of all accumulated sediment and debris for the duration of the construction sequence, and until all permanent soil stabilization procedures have been completed to prevent the transmission of site-generated sediment to downstream storm sewer facilities and discharge locations.

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FILTERED WATER FLOW







-2"x 2"x 48" POINTED WOODEN FENCE POST, 6' O.C.

- 4" TOPSOIL - EXISTING GROUND

SIDE ELEVATION

![](_page_6_Figure_11.jpeg)

WIDTH= 1'-10"

DEPTH= VARIES

A3 - INLET FILTER

NOT TO SCALE

MATTRESSES FILLED WITH 3" to 4" ANGULAR BLOCK SHAPED ROCK BASKETS TO BE TIGHTLY WIRED TOGETHER. GABIONS CAN BE SUBSTITUTED FOR RENO MATTRESSES IF THE PREFORMED SCOUR HOLE THICKNESS DICTATES. TYPICAL PREFORMED SCOUR HOLE DETAIL NOT TO SCALE

![](_page_6_Figure_14.jpeg)