

Preliminary/Final Site Plan

WITH USE VARIANCE

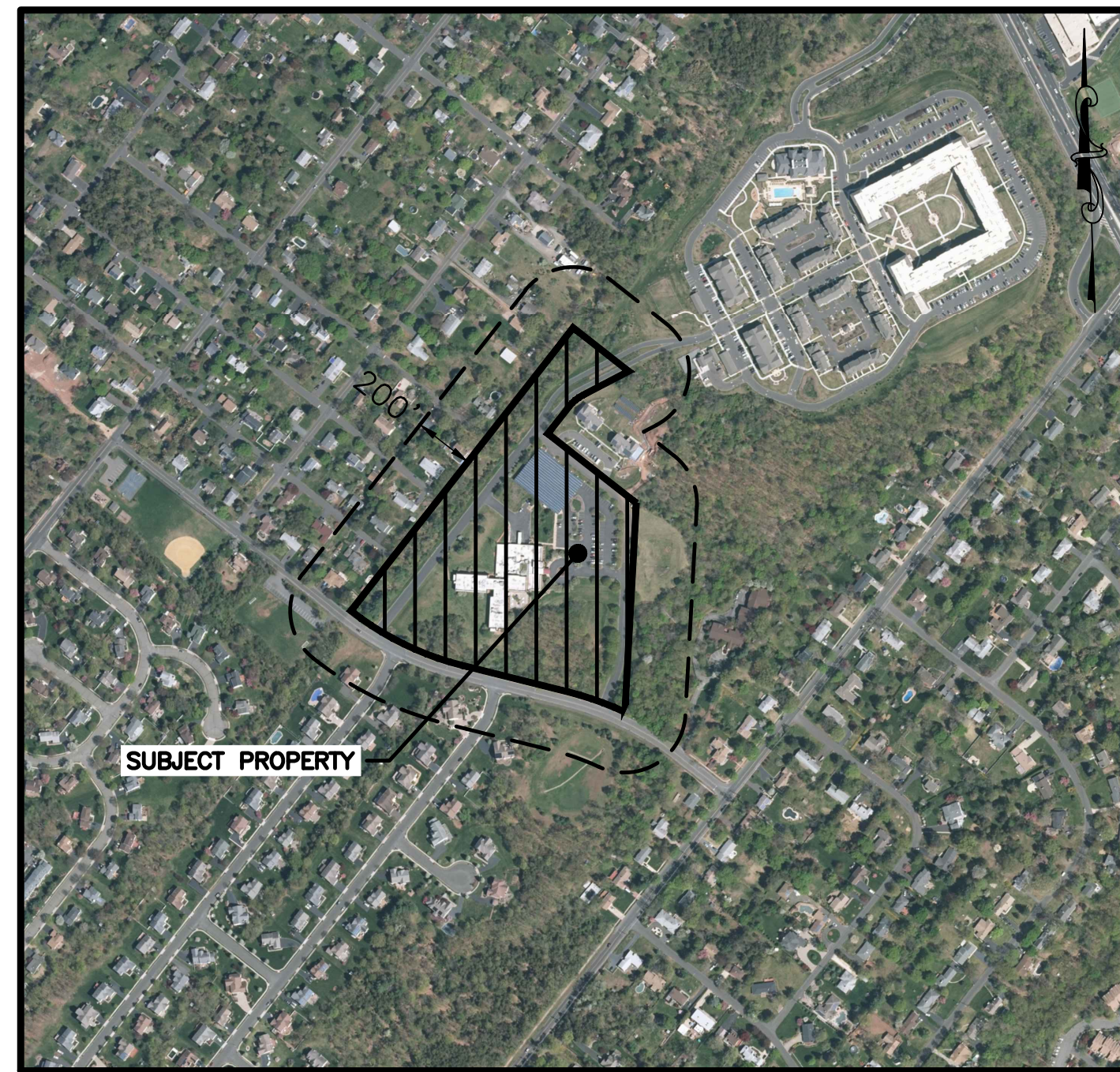
PARKER AT SOMERSET CHILD CARE FACILITY

Tax Map Sheet 85

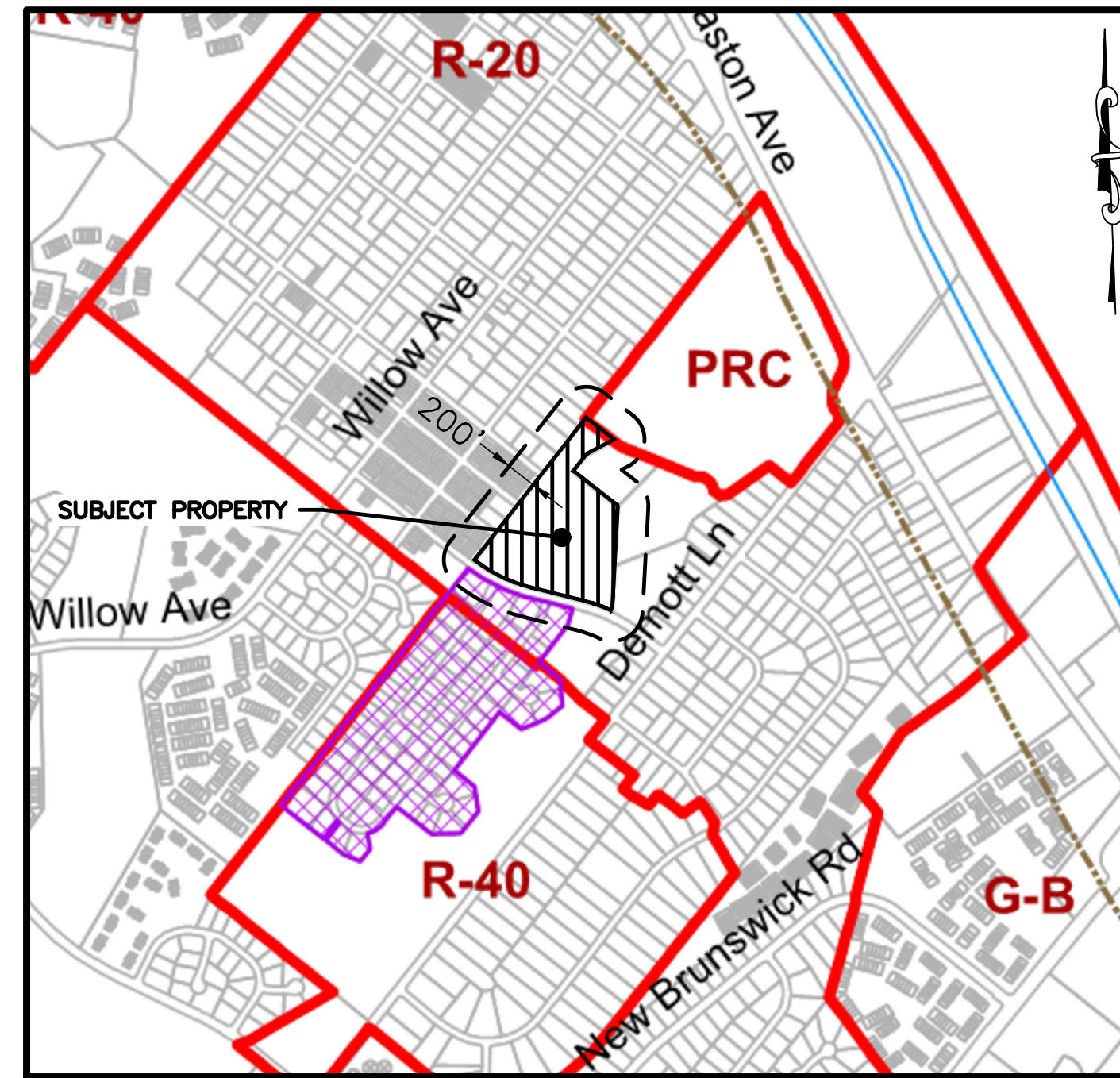
Block 424.01, Lots 39.08

Franklin Township, Somerset County, New Jersey

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SHT. NO.	DRAWING	DESCRIPTION
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02	LEG-1	LEGEND & GENERAL NOTES
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07	SED-2	SOIL EROSION AND SEDIMENT CONTROL DETAILS
08	L.3	COURTYARD LANDSCAPE PLAN



Key Map
SCALE: 1"=500'



Zoning Map
SCALE: 1"=1,000'

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.

(4) 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'

(5) 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

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

OWNER/APPLICANT

PARKER MEMORIAL HOMES

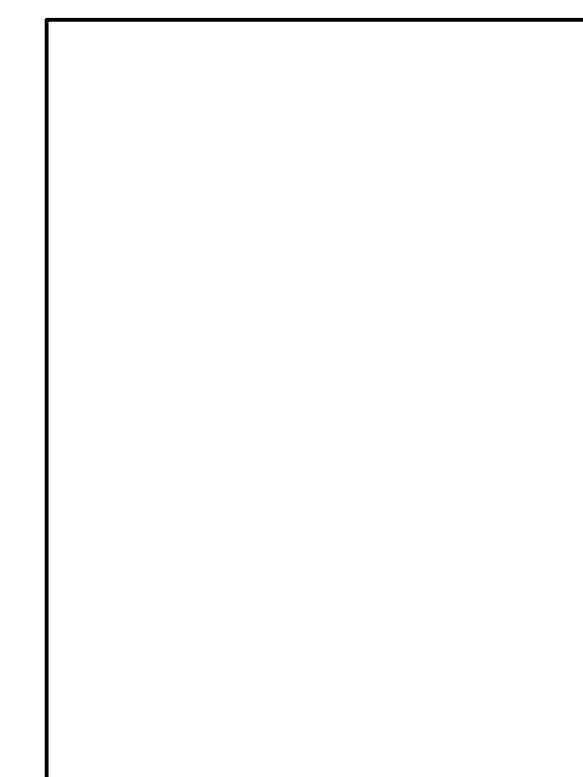
15 Dellwood Lane
Somerset, NEW JERSEY 08873
Phone: (732)-545-4200

ATTORNEY

BOB SMITH & ASSOCIATES

216 STELTON ROAD, SUITE B-1
PISCATAWAY, NEW JERSEY 08854
Phone: (732)-752-3100

SOMERSET COUNTY ACCEPTANCE STAMP



These plans are not accepted for construction unless this block is stamped "Accepted as submitted" by a staff member of the Somerset County Engineering Division. Bids for construction should not be based on these plans until the plans are accepted by the County.

Acceptance of these plans expire two(2) years from the stamped date.

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 SPACES
REQUIRED NUMBER OF HANDICAP ACCESSIBLE PARKING SPACES, EXISTING CONDITIONS (ADA) =	6 SPACES
TOTAL NUMBER OF EXISTING STANDARD PARKING SPACES =	173 SPACES
TOTAL NUMBER OF EXISTING HANDICAP ACCESSIBLE PARKING SPACES =	14 SPACES
NURSING FACILITY: REQUIRED TOTAL NUMBER OF PARKING SPACES, PROPOSED CONDITIONS (ORD. 112-45) = (120 BEDS X 0.5 + 36 STAFF X 1 = 96)	96 SPACES
CHILD CARE FACILITY: REQUIRED TOTAL NUMBER OF PARKING SPACES, PROPOSED CONDITIONS (ORD. 112-45) = (7 STAFF X 0.5 = 4)	4 SPACES
REQUIRED TOTAL NUMBER OF PARKING SPACES PROPOSED CONDITIONS =	100 SPACES
REQUIRED TOTAL NUMBER OF HANDICAP ACCESSIBLE PARKING SPACES, PROPOSED CONDITIONS (ADA) =	6 SPACES
TOTAL NUMBER OF PROPOSED STANDARD PARKING SPACES =	173 SPACES
TOTAL NUMBER OF PROPOSED HANDICAP ACCESSIBLE PARKING SPACES =	14 SPACES
(1) THOUGH NOT PERMITTED IN THE R-20 ZONE, NURSING HOMES ARE PERMITTED AS A CONDITIONAL USE IN THE G-B (GENERAL BUSINESS) ZONE. NURSING HOMES IN THE G-B ZONE HAVE A PARKING REQUIREMENT OF 1 SPACE PER 2 BEDS AND 1 SPACE PER EMPLOYEE (MINIMUM OF 10), PER ORDINANCE CHAPTER 112-45. 30 EMPLOYEES ARE ASSUMED TO BE ON SITE AT ANY GIVEN SHIFT. ASSISTED LIVING FACILITIES HAVE A PARKING REQUIREMENT OF 0.50 PARKING SPACES PER ROOM, PER SECTION 5-21-4.14 OF THE RESIDENTIAL SITE IMPROVEMENT STANDARDS (RSIS).	
(2) ACCORDING TO CHAPTER 112 - SCHEDULE 4 PARKING REQUIREMENTS, EDUCATIONAL INSTITUTIONS WHETHER PUBLIC OR PRIVATE HAVE A PARKING REQUIREMENT OF 1 SPACE FOR EACH 2 EMPLOYEES. THERE WILL BE A MAXIMUM OF 7 EMPLOYEES (1 SUPERVISOR + 6 CLASSROOM STAFF / 1:5 MAX RATIO OF STAFF TO KIDS) AT ANY ONE GIVEN TIME.	

APPROVED BY THE ZONING BOARD OF ADJUSTMENT:

ZONING BOARD CHAIRMAN _____ DATE _____

ZONING BOARD SECRETARY _____ DATE _____



PROJECT INFORMATION: PARKER AT SOMERSET CHILD CARE FACILITY
FILE NAME: PARK0001_SHT001_CVR-01.dwg
LAST SAVE BY: BJB
LAST SAVE TIME: 15 May 2020, 3:46PM

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NO.	DATE	REVISIONS	BY	CHKD

NICHOLAS C. ROTONDA
VICE PRESIDENT

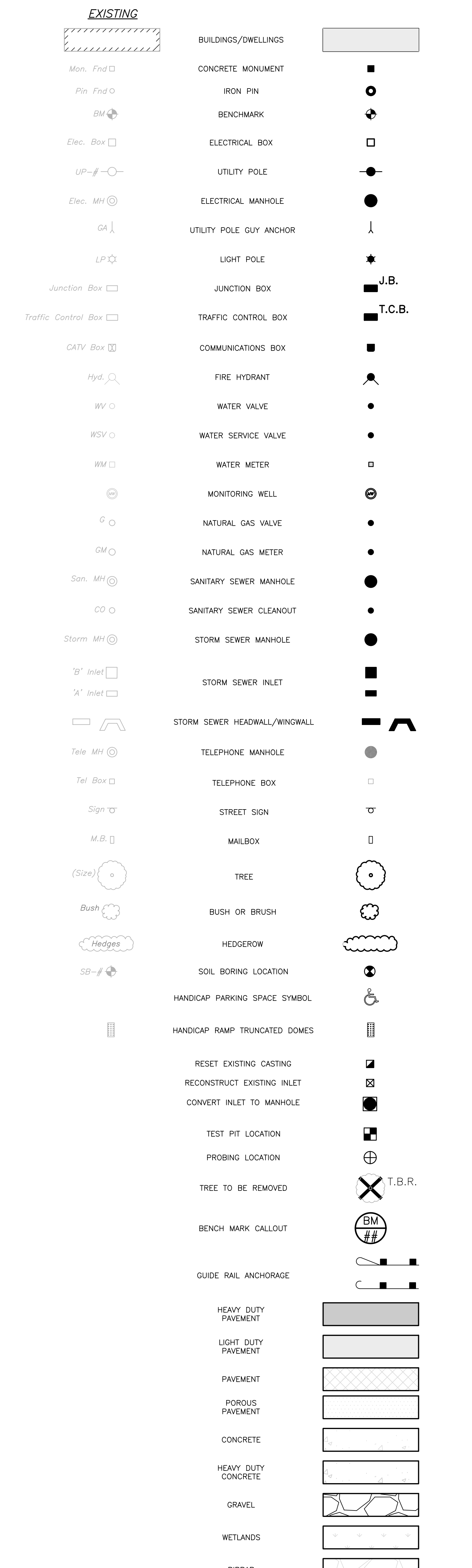
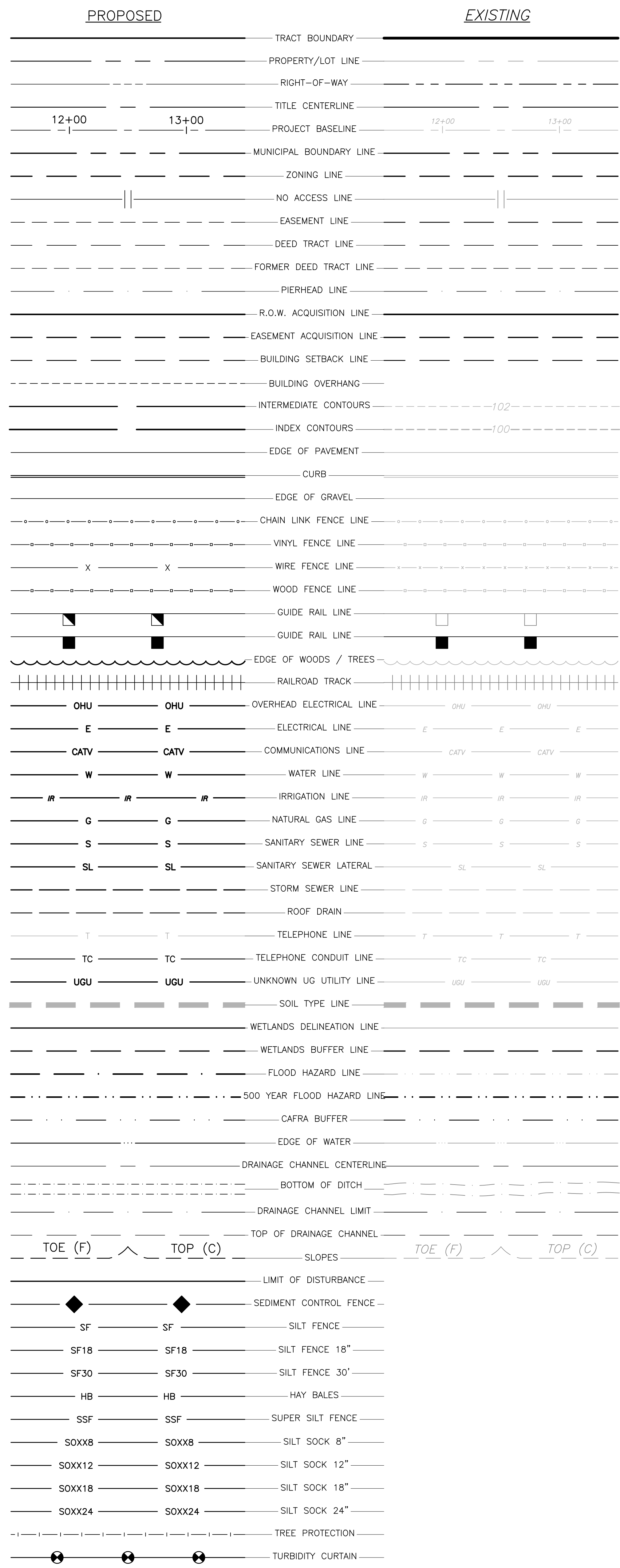
05-15-2020
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE NO. 34434

FRANCIS E. PARKER MEMORIAL HOMES
PARKER AT SOMERSET CHILD CARE FACILITY
BLOCK 424.01, LOT 39.08, FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY
PRELIMINARY / FINAL SITE PLAN
COVER SHEET



OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY	JBJ	DRAWING	CVR-1
CHECKED BY	NCR	SHEET	01
DRAWN BY	BJM	OF	07
DATE	05-15-2020		
SCALE	AS SHOWN		
PROJ. NO.	PARK-00047		



- GENERAL NOTES:**
- 1) THESE GENERAL NOTES APPLY TO ALL SHEETS IN THIS SET OF PLANS.
 - 2) THIS SET OF PLANS HAS BEEN PREPARED FOR PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING HAS BEEN REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".
 - 3) THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING EXISTING SITE CONDITIONS PRIOR TO BIDDING. ALL ITEMS AND STRUCTURES THAT INTERFERE WITH THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REMOVED.
 - 4) THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON.
 - 5) ALL OFFSITE DISTURBANCE MUST BE RESTORED TO ORIGINAL CONDITION.
 - 6) THE CONTRACTOR MUST PROVIDE A SCHEDULE OF CONSTRUCTION FOR REVIEW AND APPROVAL BEFORE START OF CONSTRUCTION.
 - 7) NO SOIL CAN BE IMPORTED TO OR REMOVED FROM THE SITE UNTIL A SOIL IMPORTATION OR EXPORTATION PERMIT HAS BEEN OBTAINED FROM THE TOWNSHIP AS REQUIRED BY ORDINANCE. SOIL REMOVAL SHALL BE IN ACCORDANCE WITH SECTION 12.28 OF THE ORDINANCE.
 - 8) AN AS-BUILT PLAN PREPARED BY A LICENSED LAND SURVEYOR IS TO BE SUBMITTED TO THE TOWNSHIP PRIOR TO ANY CERTIFICATE OF OCCUPANCY INSPECTION AND RELEASE OF PERFORMANCE BONDS.
 - 9) ALL PLANT RELOCATIONS/SUBSTITUTIONS SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
 - 10) DATUM REFERS TO THE NORTH AMERICAN VERTICAL DATUM.
- APPLICABLE STANDARDS:**
- 11) ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
 - i) N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS CURRENTLY AMENDED;
 - ii) CURRENT, PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
 - iii) CURRENT, PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
 - iv) STORMWATER MANAGEMENT STRUCTURES TO CONFORM TO NIDEP BEST MANAGEMENT PRACTICES MANUAL DATED FEBRUARY 2004.
 - v) CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
 - 12) ALL PROPOSED WORK IS TO CONFORM TO THE LATEST EDITION OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE FOR THE TIME OF CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO THE BUILDING CODE AND THE NEW JERSEY BARRIER FREE CODE FOR ADA CONFORMANCE.
- EXISTING UTILITIES:**
- 13) EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE EXPOSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.
 - 14) CONTRACTOR TO CALL FOR A UTILITY MARK-OUT PRIOR TO THE START OF CONSTRUCTION. FOR AREAS NOT MARKED OUT BY THE UTILITY COMPANIES, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN UNDERGROUND UTILITY LOCATING SERVICE TO CLEARLY LOCATE UTILITIES.
 - 15) THE CONTRACTOR SHALL VERIFY THE LOCATION, GRATE, AND INVERT ELEVATION OF ALL EXISTING UTILITY STRUCTURES.
 - 16) ALL UTILITY POLE RELOCATIONS AS SHOWN ON THESE PLANS TO BE COORDINATED BY THE CONTRACTOR.
 - 17) THE CONTRACTOR SHALL RAISE/ADJUST ALL EXISTING UTILITY VALVE COVERS, FRAMES, GRATES, ETC., WITHIN THE CONSTRUCTION AREA TO THE PROPOSED GRADE.
- EROSION CONTROL:**
- 18) CONTRACTOR IS RESPONSIBLE INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH RELEVANT SOIL CONSERVATION DISTRICT GUIDELINES AND EROSION CONTROL MEASURES PRESENTED IN THIS SET OF PLANS.
 - 19) ALL DISTURBED AREAS NOT RECEIVING IMPERVIOUS SURFACE OR LANDSCAPING SHALL BE RESTORED IN ACCORDANCE WITH THE LANDSCAPING/SOIL EROSION AND SEDIMENT CONTROL SEEDING SPECIFICATIONS.
- DEMOLITIONS:**
- 20) CERTIFICATION FROM THE RESPECTIVE UTILITY AGENCIES SHALL BE OBTAINED PRIOR TO DEMOLITION STATING THAT ALL UTILITIES SERVING THE BUILDING TO BE RAZED HAS BEEN PROPERLY SHUT OFF AND/OR REMOVED OR BOTH.
 - 21) CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING DISCONNECTIONS OF UTILITIES WITH THE REPRESENTATIVE LOCAL UTILITY COMPANY.
 - 22) WHERE CONCRETE CURB OR SIDEWALK IS TO BE REMOVED, CONTRACTOR SHALL REMOVE TO THE NEAREST JOINT, UNLESS SPECIFIED OTHERWISE.
- GRADES:**
- 23) SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATION SET FORTH BY THE GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING, OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS APPROVED BY THE ENGINEER. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE OR 3% BELOW OPTIMUM. ELEVATIONS SHOWN IN THESE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
 - 24) CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
 - 25) "TC" INDICATES TOP OF CURB ELEVATION, AND "BC" INDICATES BOTTOM OF CURB OR GUTTER ELEVATION.
 - 26) ALL WALKWAYS SHALL BE CONSTRUCTED WITH A MAXIMUM 2% CROSS SLOPE.
 - 27) ALL HANDICAP PARKING SPACES AND ACCESS AISLES SHALL BE CONSTRUCTED WITH A MAXIMUM 2% GRADE IN ANY DIRECTION.
- MISC SITE WORK:**
- 30) THE SUITABILITY OF EXCAVATED MATERIAL FOR USE AS BACKFILL SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
 - 31) SUB BASE MATERIAL FOR SIDEWALKS, CURBS AND PAVED SURFACES SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUB BASE BE DEEMED UNSUITABLE, SUB BASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - 32) ELECTRIC, TELEPHONE, CATV AND ALL OTHER WIRE SERVED UTILITY EXTENSIONS AND SERVICES SHALL BE INSTALLED UNDERGROUND WITH STANDARDS ESTABLISHED BY THE SERVING LOCAL UTILITY COMPANY.
 - 33) STANDARD PARKING SPACES ARE TO BE STRIPED IN WHITE LINES.
 - 34) HANDICAP PARKING SPACES ARE TO BE STRIPED IN BLUE LINES.
 - 35) ALL EASEMENTS FOR PUBLIC PURPOSES SHALL BE DEDICATED TO THE TOWNSHIP, UNLESS OTHERWISE NOTED.
 - 36) ALL BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. PLEASE REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING'S DIMENSIONAL INFORMATION.
 - 37) APPLICABLE CODE AND ORDINANCES TO:
 1. WATER MAINS: 48 INCHES TO TOP OF PIPE BARREL OR 6 INCHES BELOW THE FROST LINE (ESTABLISHED BY THE LOCAL BUILDING OFFICIAL), WHICHEVER IS DEEPER.
 2. SANITARY SEWER: DEPTH, ELEVATIONS AND GRADES AS INDICATED ON DRAWINGS.
 3. STORM SEWER: DEPTHS, ELEVATIONS, AND GRADES AS SHOWN ON DRAWINGS.

- FILL MATERIAL IMPORT:**
- 38) CLEAN SOIL BROUGHT TO THE SITE FOR FILL MUST MEET FOLLOWING CRITERIA:
 - i) CERTIFIED TO BE BELOW NIDEP 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/TAH)-30 AND EXTRACTABLE PETROLEUM COMPOUNDS (EPC). 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 YARDS 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 NIDEP GUIDANCE DOCUMENT "FILL MATERIAL GUIDANCE FOR SWP SPS", 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 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 COMINGLED 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.
- 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 15, 2016.

200' PROPERTY OWNERS LIST

BLOCK—LOTS: 426—16,17,18,19,20&21 BUSH, LINDA ANN 31 FIFTEENTH STREET SOMERSET NJ 08873 RE: 31 FIFTEENTH ST	BLOCK—LOT: 442—1.02 YANG, CHAORAN & PAN, YETING 37 TWELFTH STREET SOMERSET NJ 08873 RE: 37 TWELFTH ST	BLOCK—LOT: 424.01—48 RODENBERG, KATHERINE L. 67 DEMOTT LA SOMERSET NJ 08873 RE: 67 DEMOTT LA
BLOCK—LOT: 426—13,14,&15 ROBINSON, MICHELLE 37 FIFTEENTH ST SOMERSET NJ 08873 RE: 37 FIFTEENTH ST	BLOCK—LOT: 442—2 CROSSO, ALAN M. & JANET 102 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 102 HOLLYWOOD AVE	BLOCK—LOT: 424.01—47 LINDO, OSCAR 63 DEMOTT LANE SOMERSET NJ 08873 RE: 63 DEMOTT LA
BLOCK—LOT: 426—22,23,24,25,26,&27 BUSH, WARREN R & JOANNE C TRUSTEES 32 FOURTEENTH ST SOMERSET NJ 08873 RE: 32 FOURTEENTH ST	BLOCK—LOT: 442—3 SMITH, DUANE & MARY 96 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 96 HOLLYWOOD AVE	BLOCK—LOT: 424.01—46 MANGIONE, LOUIS A JR & JACQUELINE 59 DEMOTT LANE SOMERSET NJ 08873 RE: 59 DEMOTT LA
BLOCK—LOT: 426—29 SUCHAK, DAVID & SANDRA 40 FOURTEENTH STREET SOMERSET NJ 08873 RE: 40 FOURTEENTH ST	BLOCK—LOT: 442—4 LUND, GARY A. & LOUISE M. 92 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 92 HOLLYWOOD AVE	BLOCK—LOT: 424.01—45 PELESKO, RAYMOND & JUDITH A. 55 DEMOTT LA SOMERSET NJ 08873 RE: 55 DEMOTT LA
BLOCK—LOT: 431—16.01 OSINUBI, ADEWOLE OLOFOLAMI ET TRUST 42 THIRTEENTH STREET SOMERSET NJ 08873 RE: 33 FOURTEENTH ST	BLOCK—LOT: 442—5 RENE, PATRICIA 90 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 90 HOLLYWOOD AVE	BLOCK—LOT: 424.01—44 BUDA, DANIEL 51 DEMOTT LANE SOMERSET NJ 08873 RE: 51 DEMOTT LA
BLOCK—LOT: 431—14&15 CARIAGA, JOVENCIO & LYDIA 37 FOURTEENTH ST SOMERSET NJ 08873 RE: 37 FOURTEENTH ST	BLOCK—LOT: 442—6 BUNSCO, DENNIS M & LINDA MARIE 84 HOLLYWOOD AVE SOMERSET NJ 08873 RE: 84 HOLLYWOOD AVE	BLOCK—LOT: 424.01—43 MURILLO, MALYN 47 DEMOTT LA SOMERSET NJ 08873 RE: 47 DEMOTT LA
BLOCK—LOT: 431—22.01 RIVERA, ROSA & SEPTULVEDA, DOROTEO 516 TILLMAN STREET HILLSIDE, NJ 07205 RE: 40 THIRTEENTH ST	BLOCK—LOT: 425.02—30 TOWNSHIP OF FRANKLIN 475 DEMOTT LA SOMERSET NJ 08873 RE: 36 FIFTEENTH ST	BLOCK—LOT: 424.01—42 BIONDI, RALPH J & MICHELLE 43 DEMOTT LA SOMERSET NJ 08873 RE: 43 DEMOTT LA
BLOCK—LOT: 431—28&29 ROSEMOND, DARREN & NADINE PRINCE 42 THIRTEENTH ST SOMERSET NJ 08873 RE: 42 THIRTEENTH ST	BLOCK—LOT: 424.08—327 PATEL, UDAY & RINKU 2 RUE CHAGALL SOMERSET NJ 08873 RE: 2 RUE CHAGALL	BLOCK—LOT: 424.01—41 TATUM, HERBERT L & ANTOINETTE M 39 DEMOTT LA SOMERSET NJ 08873 RE: 39 DEMOTT LA
BLOCK—LOT: 432—16,17,18,19,20,&21 WILLIAMS, SHARON 18 MANNING ST EDISON, NJ 08817 RE: 33 THIRTEENTH ST	BLOCK—LOT: 424.18—9 SHANNON, RODNEY & KIM 1 RUE CHAGALL SOMERSET NJ 08873 RE: 1 RUE CHAGALL	BLOCK—LOT: 424.01—39.07 AVALONBAY COMMUNITIES, INC:TXAT DEPT. 671 N. GLEBE RD—STE 800 ARLINGTON, VA 22203 RE: 1550 EASTON AVE
BLOCK—LOT: 432—14&15 TIERNÓ, DOMINICK J. & MARY BETH 41 THIRTEENTH ST SOMERSET NJ 08873 RE: 41 THIRTEENTH ST	BLOCK—LOT: 424.18—10 TENJERLA, SRINIVAS N. & SAILAJA 61 RUE CHAGALL SOMERSET NJ 08873 RE: 61 RUE CHAGALL	BLOCK—LOT: 424.01—39.09 CENTER FOR GREAT EXPECT% PEG WRIGHT 19 DELLWOOD LA SOMERSET NJ 08873 RE: 19 DELLWOOD LA
BLOCK—LOT: 432—22.01 GARCIA, ABEL RAY, GONZALEZ, SONIA 32 TWELFTH ST SOMERSET NJ 08873 RE: 32 TWELFTH ST	BLOCK—LOT: 424.08—367 YANG, ROBERT & AGATHA 68 RUE CHAGALL SOMERSET NJ 08873 RE: 68 RUE CHAGALL	
BLOCK—LOT: 442—1.03 MICHELL, MICHAEL D. & NANCY 31 TWELFTH ST SOMERSET NJ 08873 RE: 32 TWELFTH ST	BLOCK—LOT: 424.08—368 TOWNSHIP OF FRANKLIN 475 DEMOTT LA SOMERSET NJ 08873 RE: 107 DEMOTT LA	
BLOCK—LOT: 432—25,26,27,28&29 BOLLERS, MOLLIE 38 TWELFTH ST SOMERSET NJ 08873 RE: 38 TWELFTH ST	BLOCK—LOT: 424.01—39.04 DIOCESE OF METUCHEN P.O. BOX 191 METUCHEN NJ 08840 RE: 5 DELLWOOD LA	

PROJECT INFORMATION: THE COPING OR REUSE OF ANY PART OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF T&M ASSOCIATES IS PROHIBITED. DATE: 05-15-2020. 6:35PM. FILE NAME: PARK0047_SPH002_LEG.dwg. LAST SAVE BY: Bbrand

NO.	DATE	REVISIONS	BY	CHKD

NICHOLAS C. ROTONDA
VICE PRESIDENT

05-15-2020
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE NO. 34434

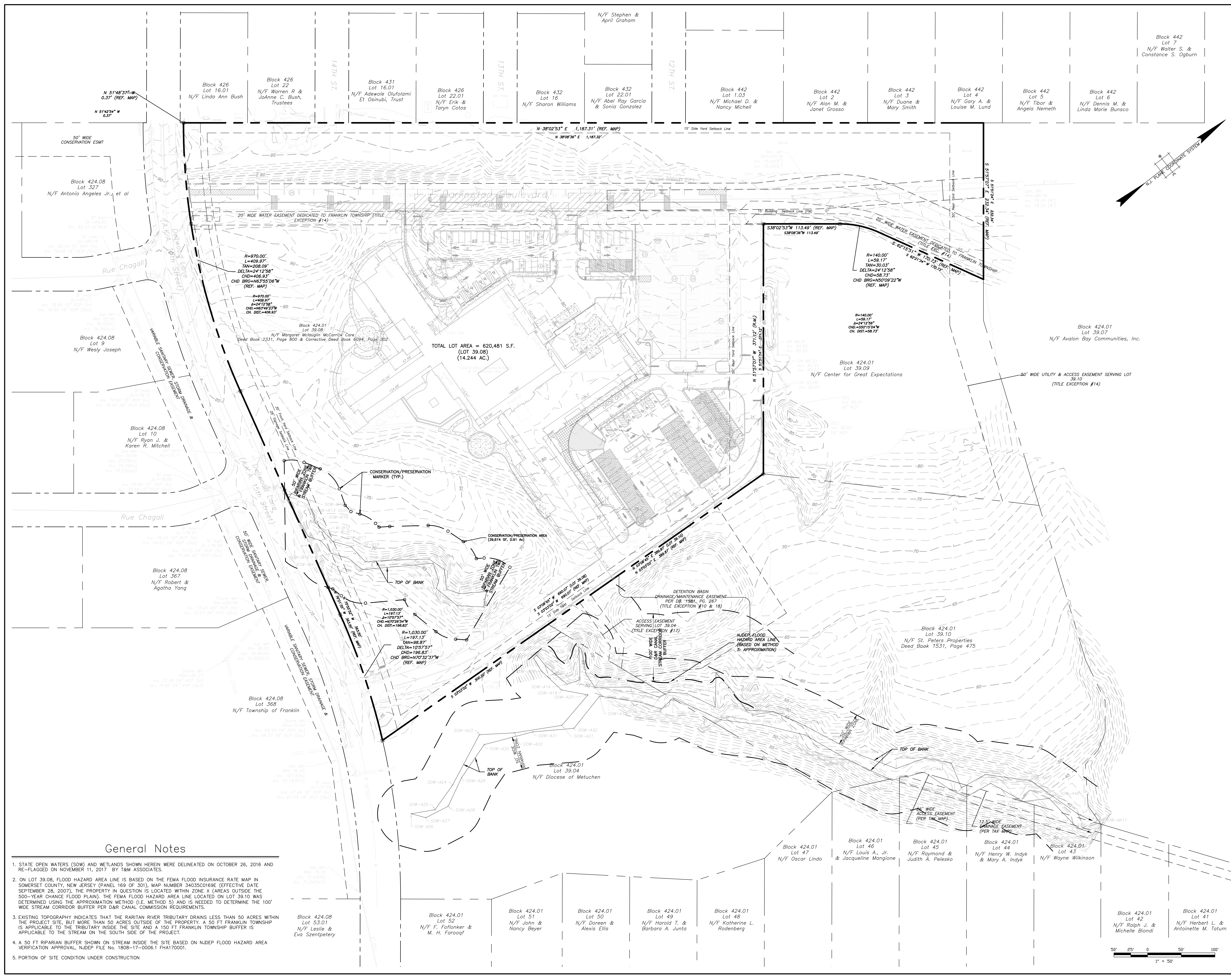
FRANCIS E. PARKER MEMORIAL HOMES
 PARKER AT SOMERSET CHILD CARE FACILITY
 BLOCK 424.01, LOT 39.08, FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY
 PRELIMINARY / FINAL SITE PLAN
 LEGEND & GENERAL NOTES

T&M
YOUR GOALS. OUR MISSION.

11 TINDALL ROAD
MIDDLETOWN, NJ 07748
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www.tandmassociates.com
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION #024276760

DESIGNED BY	JBF	DRAWING	LEG-1
CHECKED BY	NCR	SHEET	02
DRAWN BY	BJM	SCALE	N.T.S.
DATE	05-15-2020	PROJ. NO.	PARK0047
SCALE	N.T.S.	OF	07

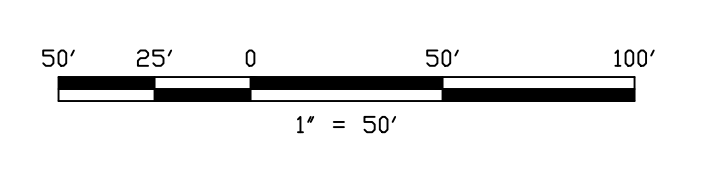
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 DATE: 05-15-2020
 TIME: 14:09:44
 LAST SAVE BY: B. B. B.



General Notes

- STATE OPEN WATERS (SOW) AND WETLANDS SHOWN HEREIN WERE DELINEATED ON OCTOBER 26, 2016 AND RE-FLAGGED ON NOVEMBER 11, 2017 BY T&M ASSOCIATES.
- ON LOT 39.08, FLOOD HAZARD AREA LINE IS BASED ON THE FEMA FLOOD INSURANCE RATE MAP IN SOMERSET COUNTY, NEW JERSEY (PANEL 169 OF 301), MAP NUMBER 3403500169E (EFFECTIVE DATE SEPTEMBER 28, 2007). THE PROPERTY IN QUESTION IS LOCATED WITHIN ZONE X (AREAS OUTSIDE THE 500-YEAR CHANCE FLOOD PLAIN). THE FEMA FLOOD HAZARD AREA LINE LOCATED ON LOT 39.10 WAS DETERMINED USING THE APPROXIMATION METHOD (I.E. METHOD S) AND IS NEEDED TO DETERMINE THE 100' WIDE STREAM CORRIDOR BUFFER PER D&R CANAL COMMISSION REQUIREMENTS.
- EXISTING TOPOGRAPHY INDICATES THAT THE RARITAN RIVER TRIBUTARY DRAINS LESS THAN 50 ACRES WITHIN THE PROJECT SITE, BUT MORE THAN 50 ACRES OUTSIDE OF THE PROPERTY. A 50 FT FRANKLIN TOWNSHIP IS APPLICABLE TO THE TRIBUTARY INSIDE THE SITE AND A 150 FT FRANKLIN TOWNSHIP BUFFER IS APPLICABLE TO THE STREAM ON THE SOUTH SIDE OF THE PROJECT.
- A 50 FT RIPARIAN BUFFER SHOWN ON STREAM INSIDE THE SITE BASED ON NJDEP FLOOD HAZARD AREA VERIFICATION APPROVAL, NJDEP FILE NO. 1808-17-0006.1 FHA170001.
- PORTION OF SITE CONDITION UNDER CONSTRUCTION

Block 424.08 Lot 367 N/F Robert & Agatha Yang
 Block 424.08 Lot 368 N/F Township of Franklin
 Block 424.01 Lot 39.04 N/F Diocese of Metuchen
 Block 424.01 Lot 47 N/F Oscar Lindo
 Block 424.01 Lot 46 N/F Louis A., Jr. & Jacqueline Mangione
 Block 424.01 Lot 45 N/F Raymond & Judith A. Pelesko
 Block 424.01 Lot 44 N/F Henry W. Indyk & Mary A. Indyk
 Block 424.01 Lot 43 N/F Wayne Wilkinson
 Block 424.01 Lot 51 N/F F. Foflonker & M. H. Faraoui
 Block 424.01 Lot 50 N/F John & Nancy Beyer
 Block 424.01 Lot 49 N/F Doreen & Alexis Ellis
 Block 424.01 Lot 48 N/F Harold T. & Barbara A. Junta
 Block 424.01 Lot 48 N/F Katherine L. Rodenberg
 Block 424.01 Lot 42 N/F Ralph J. & Michelle Biondi
 Block 424.01 Lot 41 N/F Herbert L. & Antoinette M. Tatum



NO.	DATE	REVISIONS	BY

NICHOLAS C. ROTONDA
 VICE PRESIDENT

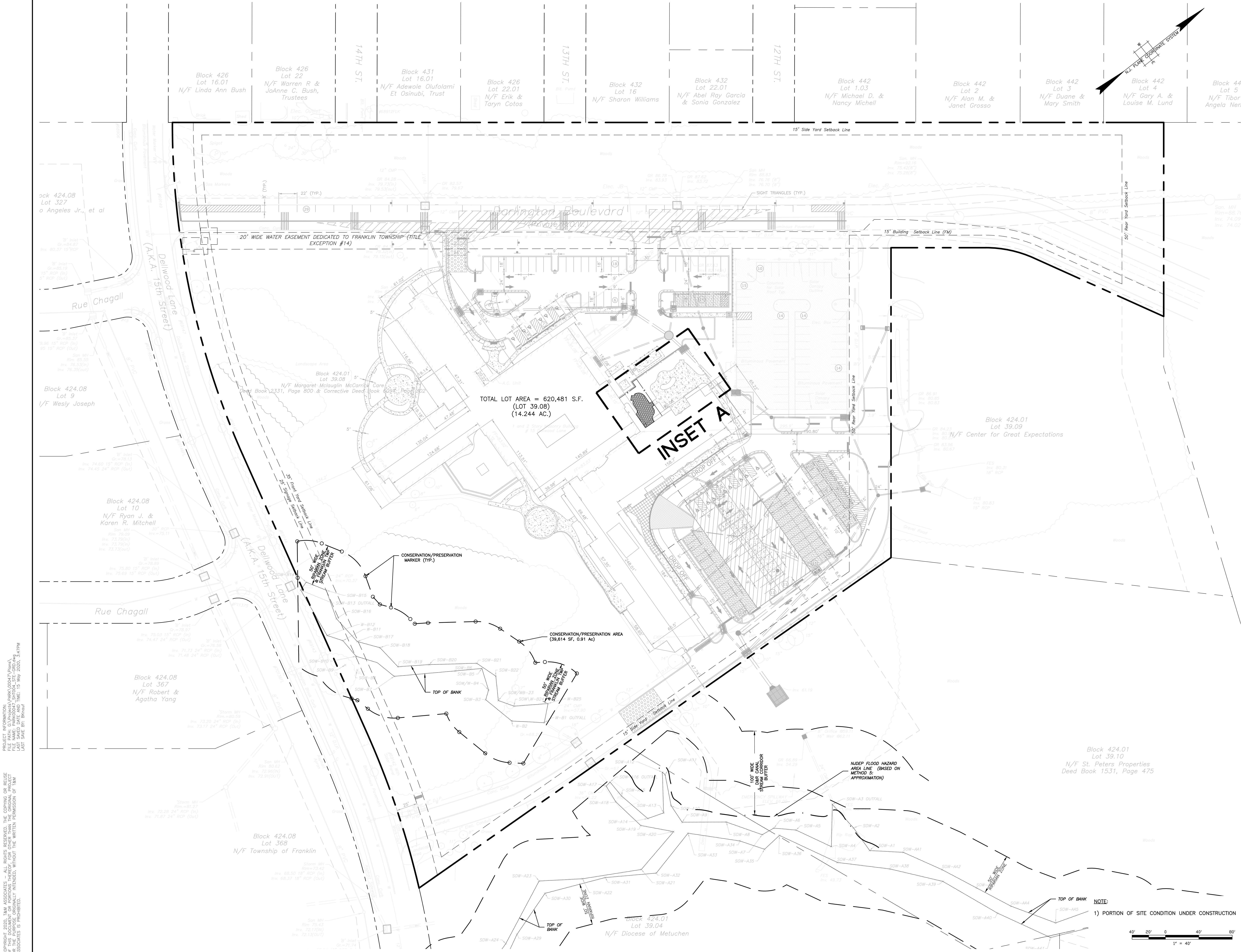
[Signature]
 05-15-2020
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 STATE OF NJ LICENSE NO. 34434

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 BLOCK 424.01, LOT 39.08, FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY
 PRELIMINARY / FINAL SITE PLAN
 EXISTING CONDITIONS PLAN



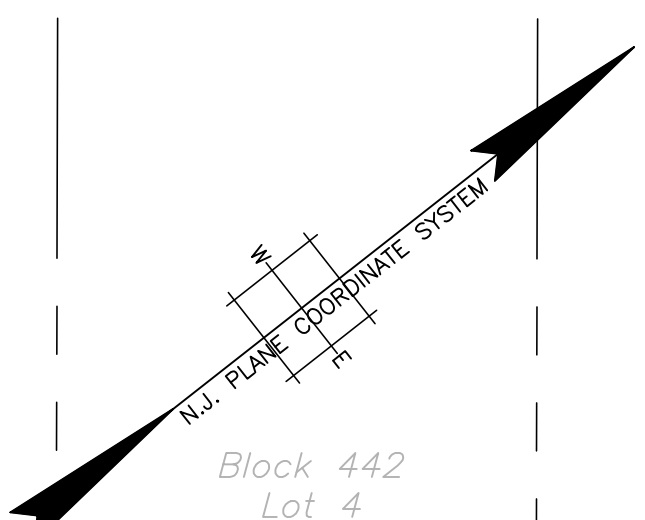
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DESIGNED BY	JMB	DRAWING	EXC-1
CHECKED BY	NCR	SHEET	03
DATE	05-15-2020	SCALE	AS SHOWN
PROJ. NO.	PARK00047	OF	07

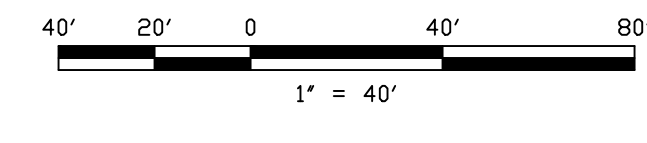


TOTAL LOT AREA = 620,481 S.F.
(LOT 39.08)
(14.244 AC.)

INSET A



NOTE:
1) PORTION OF SITE CONDITION UNDER CONSTRUCTION



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 DATE: 05-15-2020 3:47PM

NO.	DATE	REVISIONS	BY	CHKD

NICHOLAS C. ROTONDA
VICE PRESIDENT

(Signature)
05-15-2020
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE NO. 34434

FRANCIS E. PARKER MEMORIAL HOMES
PARKER AT SOMERSET CHILD CARE FACILITY
BLOCK 424.01, LOT 39.08, FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY
PRELIMINARY / FINAL SITE PLAN
OVERALL PLAN



DESIGNED BY	JBI	DRAWING	CSP-OVR
CHECKED BY	NCR	SHEET	04
DRAWN BY	BJK	DATE	05-15-2020
SCALE	AS SHOWN	PROJ. NO.	PARK-00047
			OF 07

SOMERSET-UNION COUNTY BASIN COMPACTION NOTES

- 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.
- 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.).
- 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.).
- 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.
- 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 regrading 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.

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Definition
Establishment of temporary vegetative cover on soils exposed for periods of two to 6 months which are to be seeded, not under active construction or not scheduled for permanent seeding within 60 days.

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

Water Quality Enhancement
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, protects streams or other stormwater conveyances.

Where Applicable
On exposed soils that have the potential for causing off-site environmental damage.

Methods and Materials

I. Site 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 done in accordance with Standards for Land Grading, pg. 19-1, Standards for Soil Erosion and Sediment Control in New Jersey (S.E.S.C.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.E.S.C.N.J.).

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.).

II. Seedbed Preparation
Apply ground limestone and fertilizer according to soil test recommendations such as those offered by Rutgers Cooperative Extension. Soil sample molars are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 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 per acre unless a soil test indicates 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.

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

TABLE: LIMESTONE* APPLICATION RATE BY SOIL TEXTURE

SOIL TEXTURE	TONS/ACRE	LBS./1,000 SQ. FT.
Clay, clay loam, and high organic soil	3	135
Sandy loam, loam, silt loam	2	90
Loamy sand, sand	1	45

* - Pulverized dolomitic limestone is preferred for most soils south of the New Brunswick-Trenton line.

B. Work time 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 disking operation should be on the general contour.

C. Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retiled as above.

D. Soils high on sulfates 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, disking operation should be on the general contour. Continue tillage until a reasonably uniform seedbed is prepared.

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

TABLE: TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH

SEED TYPES	SEEDING RATES (1) (POUNDS) Per 1,000 Sq.Ft.	OPTIMUM SEEDING DATE (2)		OPTIMUM SEED DEPTH (4) (inches)		
		Based on Plant Hardiness Zone (3)				
Perennial Ryegrass	100	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	20	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	8/1-12/15	1.0

WARM SEASON GRASSES

Perennial Ryegrass 100 1.0 3/15-6/1 3/15/2015 2/15-5/1 0.5

Spring Oats 86 2.0 3/15-6/1 3/1-5/15 2/15-5/1 1.0

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 8/1-12/15 1.0

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Spring Oats 86 2.0 3/15-6/1 3/1-5/15 2/15-5/1 1.0

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 8/1-12/15 1.0

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Winter Cereal Rye 112 2.8 8/1-11/1 8/1-11/1 8/1-12/15 1.0

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Winter Cereal Rye 112 2.8 8/1-11/1 8/1-11/1 8/1-12/15 1.0

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Spring Oats 86 2.0 3/15-6/1 3/1-5/15 2/15-5/1 1.0

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 8/1-12/15 1.0

WARM SEASON GRASSES

Perennial Ryegrass 100 1.0 3/15-6/1 3/15/2015 2/15-5/1 0.5

Spring Oats 86 2.0 3/15-6/1 3/1-5/15 2/15-5/1 1.0

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 8/1-12/15 1.0

(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.

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-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.

STANDARD FOR STABILIZATION WITH MULCH ONLY

Definition
Stabilizing exposed soils with non-vegetative material.

Purpose
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.

Method and Materials

I. 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, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standard 11 through 42.

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, 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 3 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.

H. 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.

I. 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 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.

J. Mulch nettings - Staple paper, jute, cotton, or 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.

K. Crimper Mulch Anchoring Coupler 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 lands, the operation should be on the contour.

L. Liquid Mulch - Binders

1. 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 membranes networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Vegetable based gels shall be applied at rates and weather conditions recommended 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:
MULCHES - SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (SEE THIS SHEET).

VEGETATIVE COVER - SEE STANDARD FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND PERMANENT STABILIZATION WITH SOIL.

SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

TILLAGE - TO ROUGHEN SURFACE AND BRING CLOS TO THE SURFACE, THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SLOPE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

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

CALCIUM CHLORIDE - 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 MOST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEP 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			APPLY ACCORDING TO MANUFACTURER'S ON INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS.
POLYACRYLAMIDE (PAM) - DRY ON			
ADJULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

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

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

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

Where Applicable
On exposed soils that have a potential for causing off-site environmental damage.

I. Irrigation (where feasible)
If soil moisture is deficient, and mulch is not used, supply new seedlings with adequate water (a minimum of 1/4 inch twice a day until vegetation is well established). This is especially true when seedlings are made in abnormally dry or hot weather or on droughty sites.

VI. Topdressing
Since slow release nitrogen fertilizer (water insoluble) is prescribed in Section I.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. Establishing Permanent Vegetative Stabilization
The quality of permanent vegetative rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rate is 100 lbs/acre 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 seeding. 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.

Methods and Materials

I. Site 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 done in accordance with Standards for Land Grading, pg. 19-1, Standards for Soil Erosion and Sediment Control in New Jersey.

B. Install needed erosion control practices or facilities such as diversions, grade 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.).

II. Seedbed Preparation
Apply ground limestone and fertilizer according to soil test recommendations such as those offered by Rutgers Cooperative Extension. Soil sample molars are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 1,100 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* APPLICATION RATE BY SOIL TEXTURE

SOIL TEXTURE	TONS/ACRE	LBS./1,000 SQ. FT.
Clay, clay loam, and high organic soil	3	135
Sandy loam, loam, silt loam	2	90
Loamy sand, sand	1	45

* - Pulverized dolomitic limestone is preferred for most soils south of the New Brunswick-Trenton line.

B. Work time 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 disking 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 sulfides 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. Seeding
A. Seed mix shall be as follows:

SEED MIXTURE #G			
KIND OF SEED	MINIMUM % PURITY	MINIMUM % GERMINATION	APPLICATION RATE POUNDS/ACRE
'REBEL' JR. TALL FESCUE	95	80	50
'BARON' KENTUCKY BLUEGRASS	95	85	60
'PALMER 2' PERENNIAL RYEGRASS	95	85	30
'JAMESTOWN 2' CHEWING FESCUE	95	85	60
TOTAL			200

SEED MIXTURE #15			
KIND OF SEED	MINIMUM % PURITY	MINIMUM % GERMINATION	APPLICATION RATE POUNDS/ACRE
HARD FESCUE	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 cultipacked seedings, seed shall be incorporated into the soil within 24 hours of seeding 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.

C. Hydroseeding is a broadcast seeding method usually involving a truck or trailer mounted tank, with 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 fibred 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. Mulching
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 may 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. Peg and Drive - Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil 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. Mulch Nettings - Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.

3. Crimper (mulch anchoring tool) - 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. Liquid Mulch-Binders - 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

