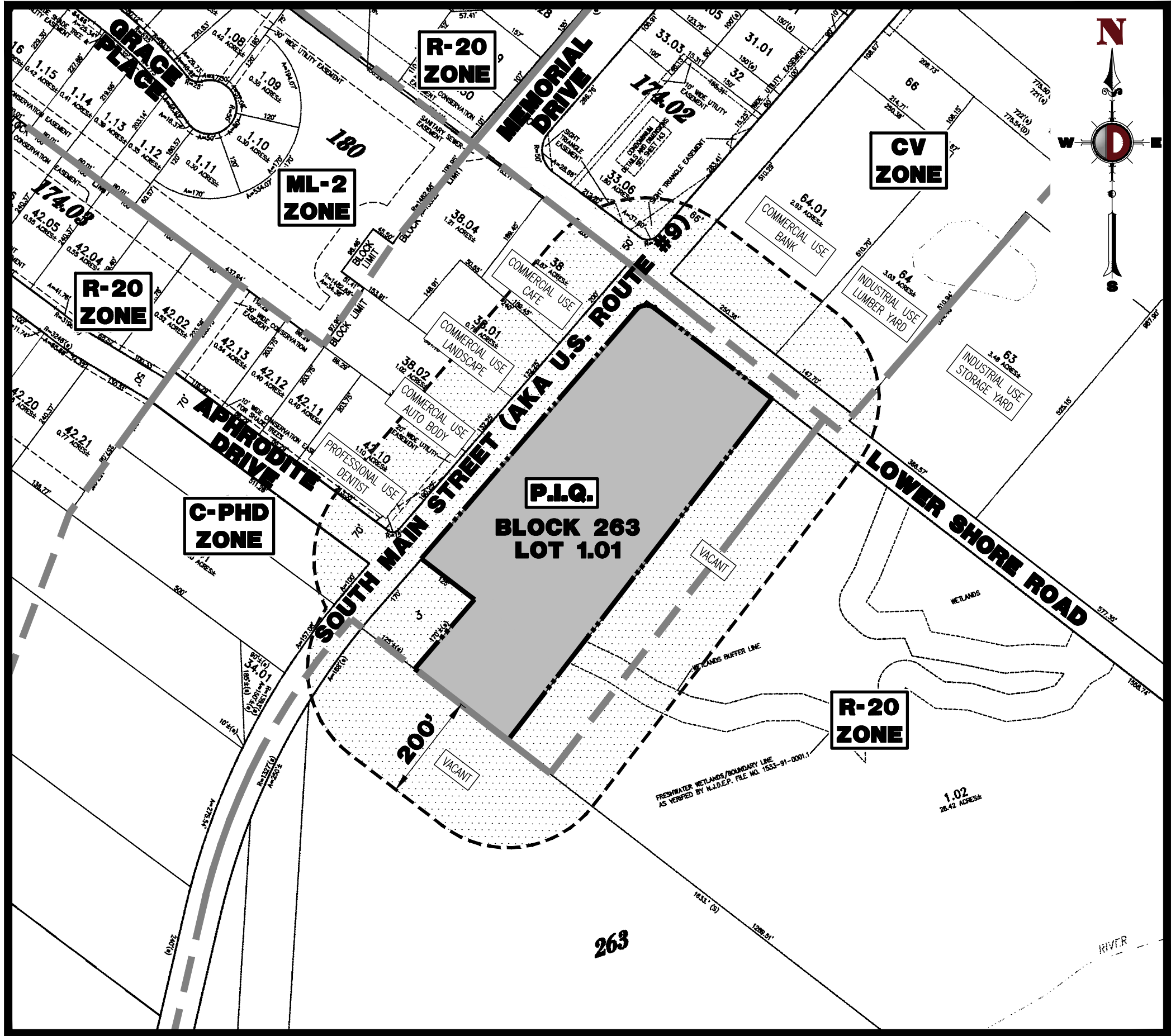


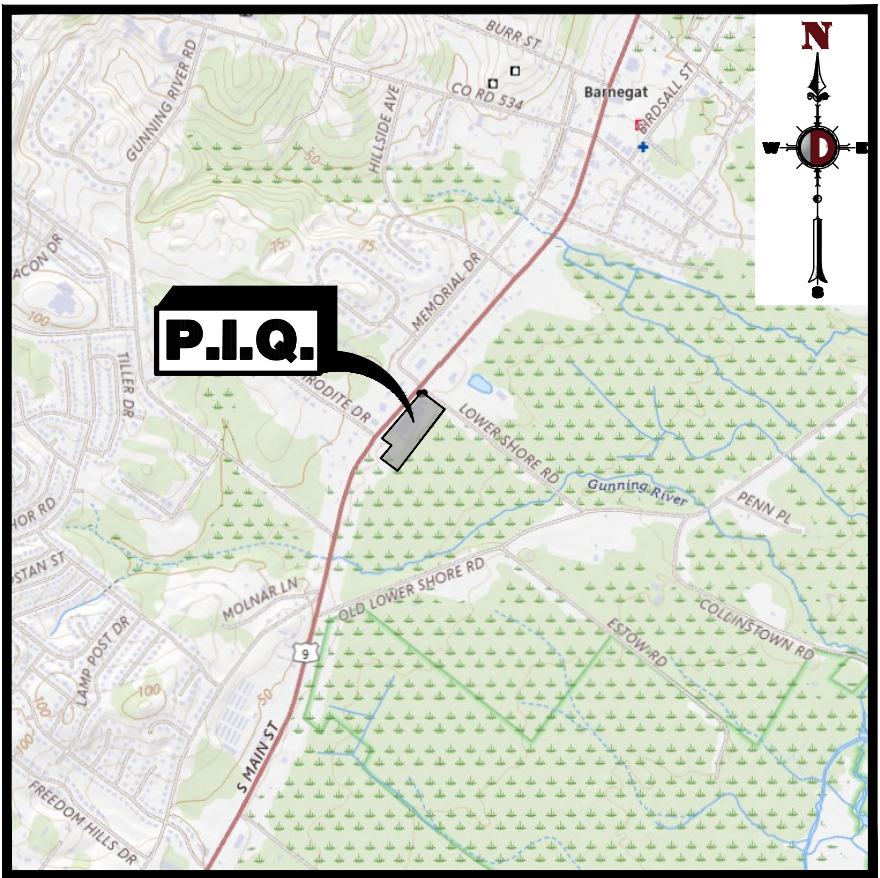
PRELIMINARY AND FINAL SITE PLAN
FOR
SIMPLY STORAGE BARNEGAT, LLC
PROPOSED SELF-STORAGE EXPANSION
BLOCK 263, LOT 1.01; TAX MAP SHEET #111 - LATEST REV. DATED 12-31-2018
220 SOUTH MAIN STREET
TOWNSHIP OF BARNEGAT
OCEAN COUNTY, NEW JERSEY

200' PROPERTY OWNERS LIST

PROPERTY OWNER	BLOCK	LOT	ALSO TO BE NOTIFIED:
MCULLA, TIM & PACQUEL 203 SOUTH MAIN ST BARNEGAT, NJ 08005	174	41	COMCAST 830 ROUTE 37 WEST TOMS RIVER, NJ 08744
MCLAUGHLIN, SUSAN L 208 SOUTH MAIN ST BARNEGAT, NJ 08005	174	42	VERIZON 540 BROAD ST ROOM 305 NEWARK, NJ 07101
RIPTIDE PHYSICAL THERAPY 249-1 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/001	CONNECTIV (FORMERLY ATLANTIC ELECTRIC) REAL ESTATE DEPARTMENT 457 US HWY 9 WEST CREEK, NJ 08092
TERRA MANAGEMENT INC 249-2 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/002	NJ NATURAL GAS CO 1415 WICKOFF ROAD P.O. BOX 1484 WALL, NJ 07719
RIPTIDE PHYSICAL THERAPY 249-3 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/003	BARNEGAT WATER & SEWER UTILITY 800 WEST BAY AVE BARNEGAT, NJ 08005
BARNEGAT SHORES LLC 249-4 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/004	OCEAN COUNTY UTILITY AUTHORITY 501 HICKORY LANE, P.O. BOX P BAYVILLE, NJ 08721
AAA REAL ESTATE HOLDINGS III LLC 249-5 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/005	SPV ENERGY (FORMERLY JCP&L CO) P.O. BOX 18001 REAL ESTATE DEPT READING PA 19640-0001
PERKINS DEBERG LLC 2M LIPPMAN 249-6 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/006	TOWNSHIP OF OCEAN DPT OF UTILITIES 50 RAILROAD AVE WARETOWN, NJ 08158
AAA REAL ESTATE HOLDINGS III LLC 249-7 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/007	NJ TURNPIKE AUTHORITY (CS PARKWAY) P.O. BOX 5642 581 MAIN STREET WOODBRIDGE, NJ 07095-5042
PERKINS DEBERG LLC 2M LIPPMAN 249-8 SOUTH MAIN ST BARNEGAT, NJ 08005	174.02	33.06/008	OCEAN COUNTY DOT P.O. BOX 2191 TOMS RIVER, NJ 08754
K & T WARETOWN INC 249-9 SOUTH MAIN ST BARNEGAT, NJ 08005	174.03	38	STATE OF NEW JERSEY DOT CN 600 TRENTON, NJ 08625
JERSEY ROOTS LLC 249-10 SOUTH MAIN ST BARNEGAT, NJ 08005	174.03	38.01, 38.04	
CENTRAL LINES INCORPORATED 249-11 SOUTH MAIN ST BARNEGAT, NJ 08005	174.03	38.02	
CHERNICK, LLC 249-12 SOUTH MAIN ST BARNEGAT, NJ 08005	174.03	42.10	
PAUL TAYLOR REAL ESTATE LLC 15 LOWER SHORE RD BARNEGAT, NJ 08005	258	63	
PAUL TAYLOR REAL ESTATE LLC 13 LOWER SHORE RD BARNEGAT, NJ 08005	258	64	
FIRST UNION CRE & THOMSON REUTERS 242 SOUTH MAIN ST BARNEGAT, NJ 08005	258	64.01	
BONBAR, LLC 20 LOWER SHORE RD BARNEGAT, NJ 08005	263	1.02	
CHESSMAN, KEVIN & KATHLEEN 208 SOUTH MAIN ST BARNEGAT, NJ 08005	263	3	
BONBAR, LLC 39 OLD LOWER SHORE RD BARNEGAT, NJ 08005	263	4	



AREA MAP
1" = 200'



KEY MAP
1" = 2000'

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PLANNING BOARD APPROVAL

APPROVED BY THE PLANNING BOARD OF BARNEGAT, OCEAN COUNTY, NEW JERSEY	
CHAIRMAN	DATE
SECRETARY	DATE
BOARD ENGINEER	DATE

PREPARED BY
DYNAMIC ENGINEERING CONSULTANTS, P.C.
1904 MAIN STREET
LAKE COMO, NJ 07719
WWW.DYNAMICCEC.COM

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F: 732.974.3521
www.dynamiccec.com

Job No: 1414-24-01325
DATE: 06/11/2025
DRAWN BY: RPK
DESIGNED BY: KED
CHECKED BY: RPF
CHECKED BY: —

PROJECT: **SIMPLY STORAGE BARNEGAT, LLC**
PROPOSED SELF-STORAGE EXPANSION
BLOCK - 263, LOT 1.01
220 SOUTH MAIN STREET
BARNEGAT TOWNSHIP, OCEAN COUNTY, NEW JERSEY

TITLE: **COVER SHEET**

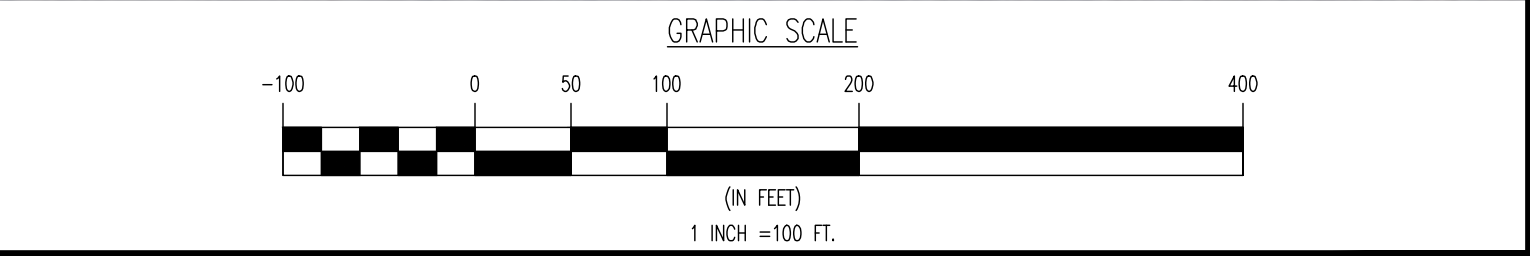
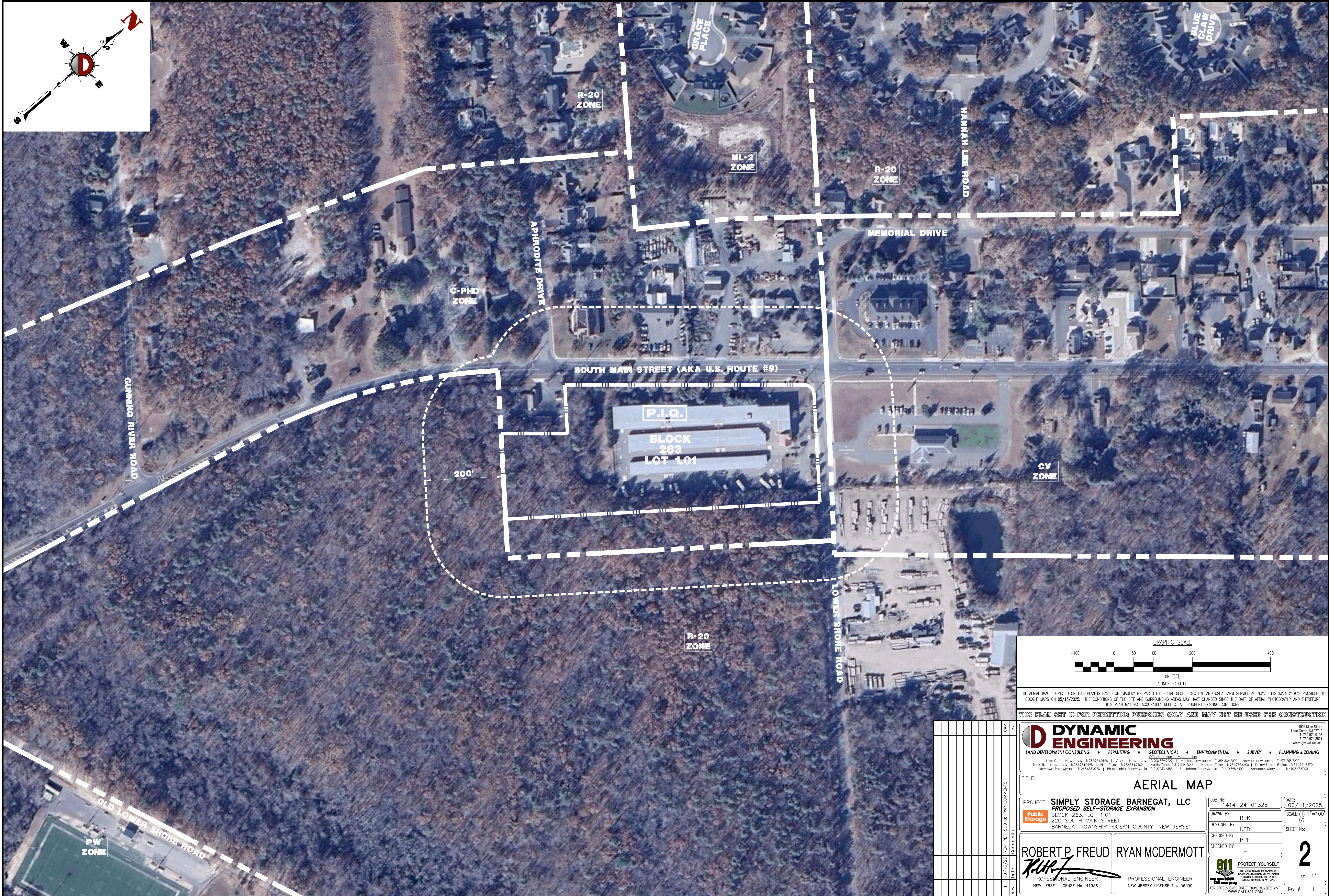
ROBERT P. FREUD
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 41938

RYAN MCDERMOTT
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 56559

811
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
CONCRETE, REINFORCING, OR ANY OTHER
PREPARED TO SECURE THE SERVICE
OFFICE NUMBER, 811, OR 311

1
OF 11
Rev. # 1

Plotted: 10/17/25 - 9:52 AM, By: emoncellita, - Product Ver: 25.0
File: \\vespc.local\desfolders\Data\DEPC PROJECTS\1414 Public Storage Inc\24-01325 Barnegat\Draw\Site Plans\0142401446SA1.dwg, ----> 02 AERIAL MAP



THE AERIAL IMAGE DEPICTED ON THIS PLAN IS BASED ON IMAGERY PREPARED BY DIGITAL GLOBE, GEO EYE AND USDA FARM SERVICE AGENCY. THIS IMAGERY WAS PROVIDED BY GOOGLE MAPS ON 06/13/2025. THE CONDITIONS OF THE SITE AND SURROUNDING AREAS MAY HAVE CHANGED SINCE THE DATE OF AERIAL PHOTOGRAPHY AND THEREFORE THIS PLAN MAY NOT ACCURATELY REFLECT ALL CURRENT EXISTING CONDITIONS.

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DYNAMIC ENGINEERING LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING Office Locations: 2025.05.15 Lake Como, New Jersey 1-732.974.0198 Chester, New Jersey 1-732.974.0198 Marlton, New Jersey 1-856.334.2000 Newark, New Jersey 1-973.755.7200 Toms River, New Jersey 1-732.974.0198 Allen, Texas 1-732.534.2100 Austin, Texas 1-512.446.2444 Houston, Texas 1-281.769.6400 Denver, Colorado 1-303.931.8670 Newtown, Pennsylvania 1-267.685.0274 Philadelphia, Pennsylvania 1-215.235.4888 Baltimore, Pennsylvania 1-410.396.4620 Annapolis, Maryland 1-410.547.5000		1904 Main Street Lake Como, NJ 07719 T: 732.974.0198 F: 732.974.3521 www.dynamiceng.com	
TITLE: AERIAL MAP			
PROJECT: SIMPLY STORAGE BARNEGAT, LLC PROPOSED SELF-STORAGE EXPANSION Public Storage BLOCK 263, LOT 1.01 220 SOUTH MAIN STREET BARNEGAT TOWNSHIP, OCEAN COUNTY, NEW JERSEY		JOB No: 1414-24-01325 DRAWN BY: RPK DESIGNED BY: KED CHECKED BY: RPF CHECKED BY: -	DATE: 06/11/2025 SCALE: (H) 1"=100' (V) - SHEET No: 2 OF 11 Rev. # 1
ROBERT P. FREUD <i>Robert P. Freud</i> PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41938		RYAN MCDERMOTT PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 56559	
811 PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION. CALL 811 OR VISIT WWW.CALL811.COM FOR STATE-SPECIFIC DIRECT PHONE NUMBERS VISIT WWW.CALL811.COM			

DEMOLITION NOTES

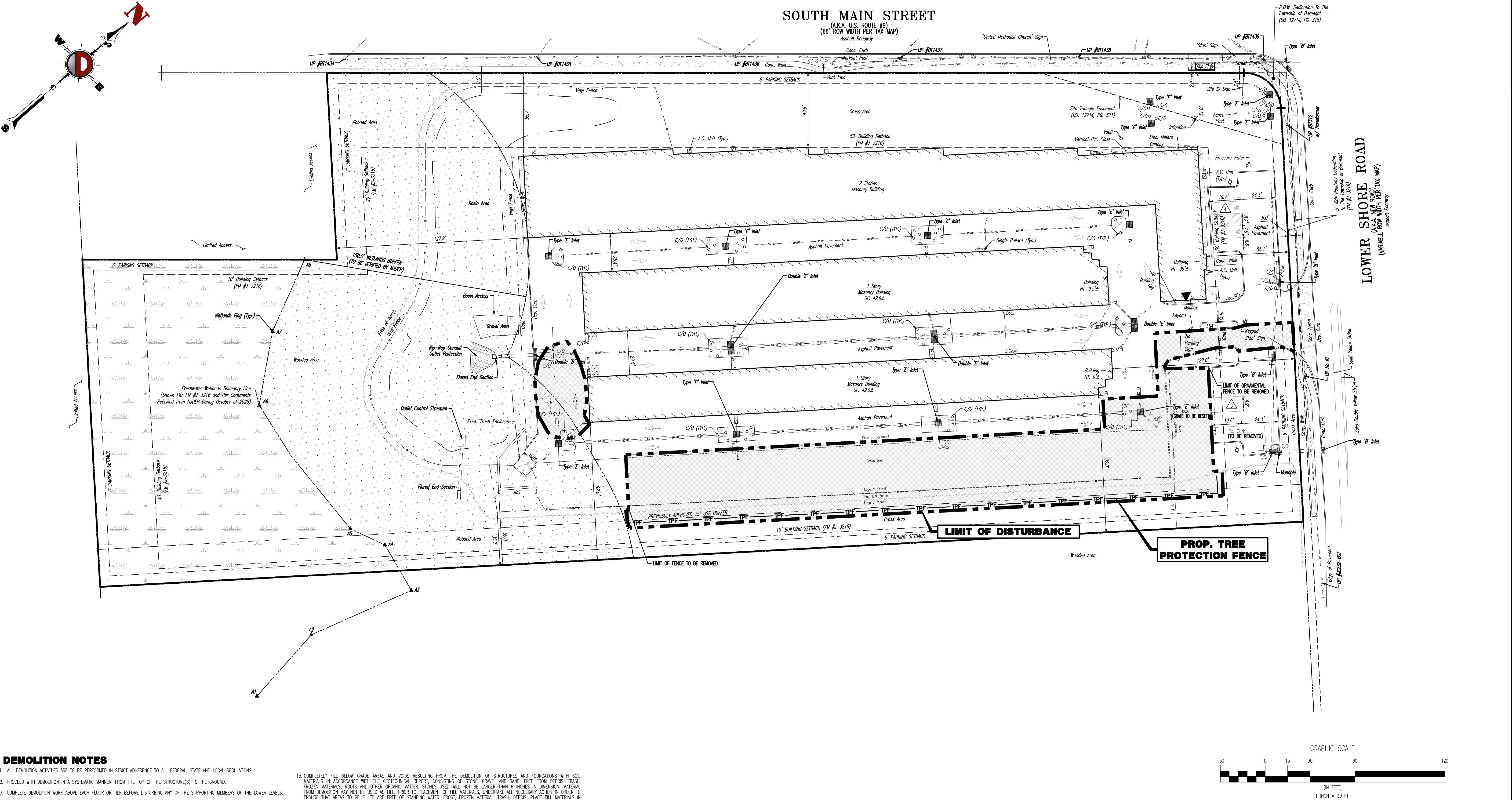
- ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
- COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
- DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
- REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND.
- BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
- LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
- PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
- DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
- ERECT AND MAINTAIN COVERED PASSAGeways IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS. PLACE THE SAFETY AND PROTECTION OF THE SURROUNDING COMMUNITY AND PROPERTY AT THE HIGHEST PRIORITY.
- REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
- CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
- USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
- ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.

- COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL PRIOR TO PLACEMENT OF FILL MATERIALS. UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
 - REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
 - DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
 - THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.
 - VERIFY THAT ALL ENVIRONMENTAL CONCERNS INCLUDING, BUT NOT LIMITED TO ASBESTOS, LEAD BASED PAINT, HAZMAT MATERIALS, UNDERGROUND STORAGE TANKS, MONITORING WELLS, AND TRANSFORMERS HAVE BEEN REMOVED PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES. THESE ARE NOT SHOWN ON THE PLANS. REFER TO ENVIRONMENTAL REPORTS AND DOCUMENTS FOR LOCATIONS AND DISPOSAL AND/OR RELOCATION PROCEDURES.
 - LOCATION OF TREE PROTECTION FENCE SHALL BE STAKED IN THE FIELD AND APPROVED PRIOR TO ANY CLEARING.
- NOTES**
- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
 - ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
 - ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

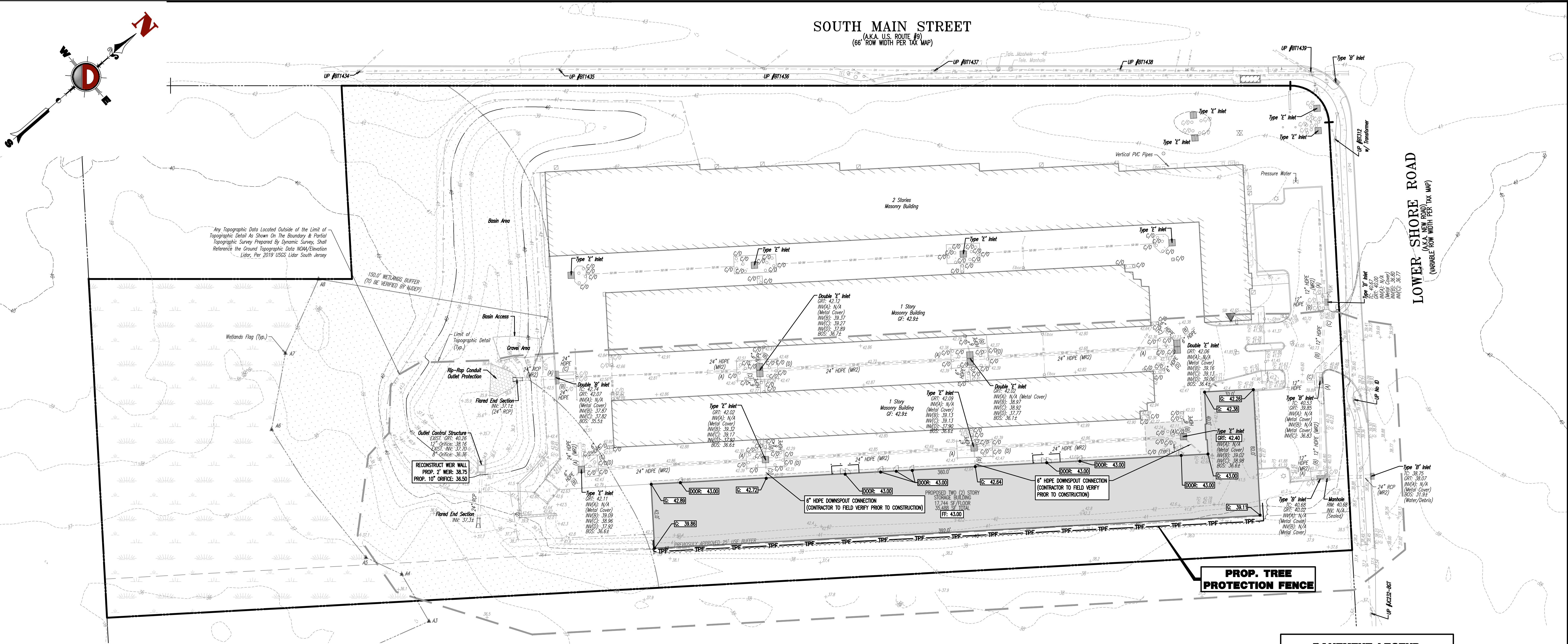
NO CLEARING OR LAND DISTURBANCE IS PERMITTED IN WETLANDS AND WETLANDS BUFFERS

DEMOLITION PLAN LEGEND

- | | |
|--|--|
| | PROPOSED LIMIT OF DISTURBANCE LINE |
| | PROPOSED TREE PROTECTION FENCE LINE |
| | EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED |



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1904 Main Street Lake Como, NJ 07719 T: 732.914.0198 F: 732.914.3521 www.dynamiceng.com	
TITLE: DEMOLITION PLAN	
PROJECT: SIMPLY STORAGE BARNEGAT, LLC PROPOSED SELF-STORAGE EXPANSION	JOB No: 1414-24-01325 DATE: 06/11/2025
Public Storage BLOCK 263, LOT 1.01 220 SOUTH MAIN STREET BARNEGAT TOWNSHIP, OCEAN COUNTY, NEW JERSEY	DRAWN BY: RPK DESIGNED BY: KED CHECKED BY: RPF CHECKED BY: -
ROBERT P. FREUD PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41938	RYAN McDERMOTT PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 56559
PROTECT YOURSELF ALL STATES REQUIRE REGISTRATION OF CONTRACTORS. IF ANY STATE REQUIRES TO OBTAIN THE STATE'S CONTRACT NUMBER, IT WILL BE 300.	
3 OF 11	
Rev. # 1	



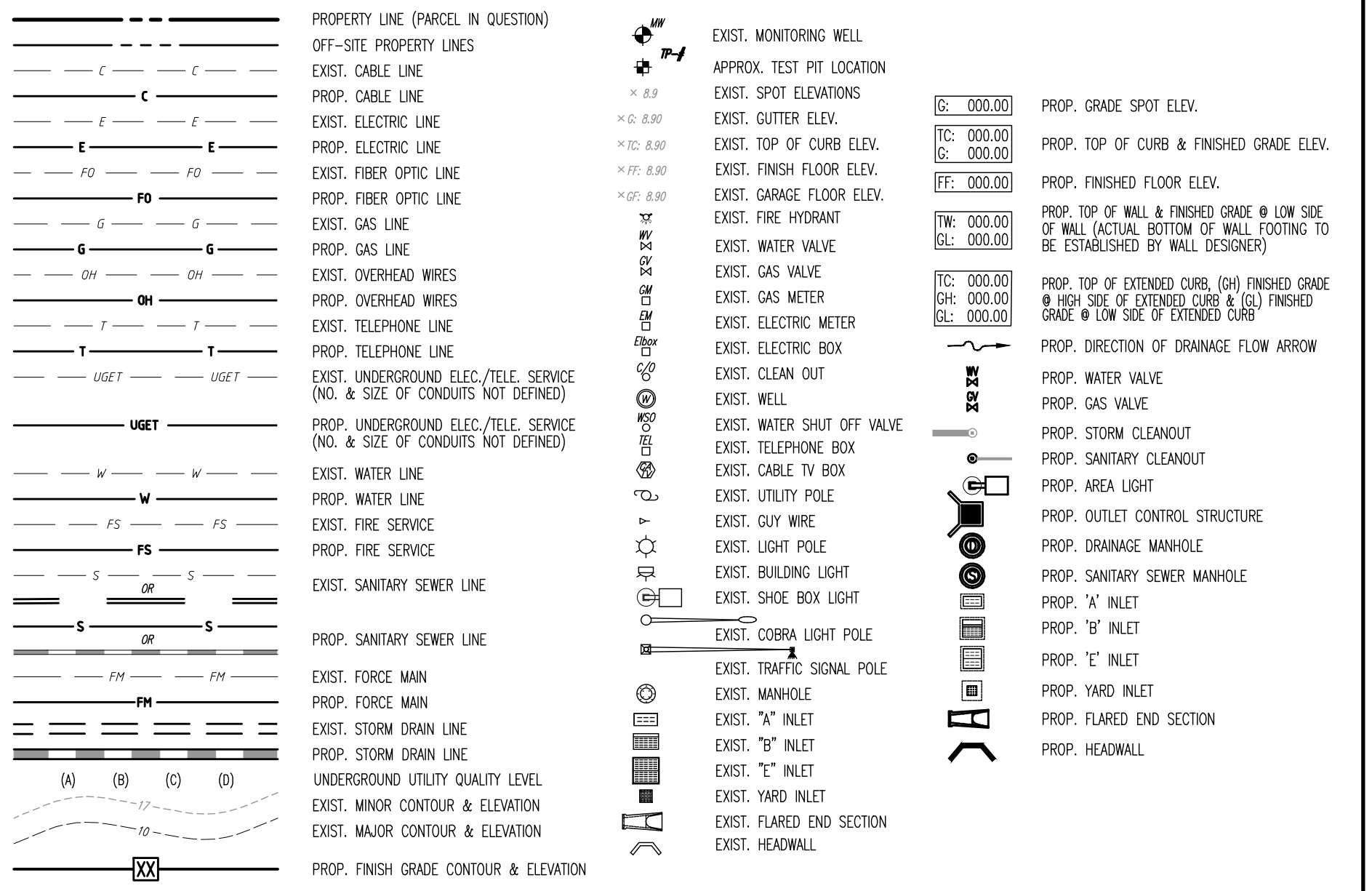
EXISTING UTILITY NOTES

EXISTING WATER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING WATER SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING WATER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL WATER COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL WATER COMPANY PRIOR TO COMPLETION. IF THE EXISTING WATER SERVICE CAN NOT BE UTILIZED, THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL WATER COMPANY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

EXISTING GAS SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING GAS SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING GAS SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL GAS COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL GAS COMPANY PRIOR TO COMPLETION. ANY NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

SANITARY SEWER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SERVICE CONNECTION IF OF ADEQUATE SIZE AND INTEGRITY AND ACCEPTABLE TO LOCAL SEWER AUTHORITY. OTHERWISE CONTRACTOR TO REMOVE EXISTING SEWER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL SEWER AUTHORITY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL SEWER AUTHORITY PRIOR TO COMPLETION. IF EXISTING SEWER SERVICE CAN NOT BE UTILIZED THEN THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL SEWER AUTHORITY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

GRADING/UTILITY GRAPHIC LEGEND



UTILITY NOTES

- LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
- WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
- ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
- THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.
- ALL SANITARY SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN OR SUCH OTHER SEPARATION AS APPROVED BY THE APPROVING AUTHORITY. WHERE APPROPRIATE CROSSING SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER MAIN AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER SHALL BE PROVIDED. THE APPROVING AUTHORITY MAY REQUIRE ADDITIONAL STRUCTURAL SUPPORT FOR SEWER CROSSING OVER SEWER LINES.
- ALL SANITARY SEWER MAINS SHALL BE SDR-35 PVC PIPE MATERIAL UNLESS OTHERWISE DESIGNATED. SEWER PIPES INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SLEEVES, COAT, OR APPROVED EQUAL.
- WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES AND APPURTENANCES DURING CONNECTION.
- LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.
- ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED IN ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED.
- ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
- ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
- MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-II, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MONITOR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM C 990 TO BE UTILIZED TO PROVIDE A SILT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER TIGHT AND CONFORM TO ASTM C-443.
- HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2336. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2336 AND ASTM F477. HOPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HOPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS.
- HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2336 (12"-30" PIPE) AND ASTM F2336 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2336 AND ASTM F477. FIELD WATER TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2336 (12"-30" PIPE) AND ASTM F2336 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2336 AND ASTM F477. FIELD WATER TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

DRAINAGE NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.
- ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED IN ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED.
- MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-II, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MONITOR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM C 990 TO BE UTILIZED TO PROVIDE A SILT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER TIGHT AND CONFORM TO ASTM C-443.
- HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2336 (12"-30" PIPE) AND ASTM F2336 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2336 AND ASTM F477. HOPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HOPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS.
- HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2336 (12"-30" PIPE) AND ASTM F2336 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2336 AND ASTM F477. FIELD WATER TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

GRADING NOTES

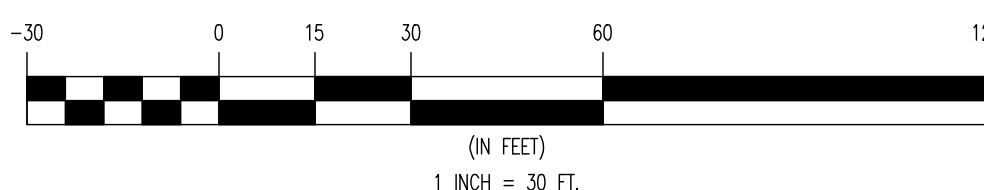
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT PREPARED BY THE CONSULTING ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED FILL AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILL AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE FILL HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND GUTTERS/CURBS AND 1.0% ON ALL CONCRETE SURFACES AND 1.5% MIN. ON ASPHALT UNLESS OTHERWISE NOTED. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE REPORTED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75% CUTTER GRADE ALONG CURB FACE RECEIVING SURFACE RUNOFF. ENGINEER TO APPROVE FINAL CURBING OUT SHEETS PRIOR TO INSTALLATION.
- SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
- REFER TO SITE PLAN FOR ADDITIONAL NOTES.
- IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
- MAXIMUM CROSS SLOPE OF 1:48 (2.08%) ON ALL SIDEWALKS.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
- THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

PAVEMENT LEGEND



REFER TO ARCHITECTURAL PLANS FOR PROPOSED ROOF LEADER DOWNSPOUT LOCATIONS. EXISTING 6" HDPE ROOF LEADERS TO REMAIN AND BE CONNECTED TO THE PROPOSED DOWNSPOUTS. CONTRACTOR SHALL NOTIFY DYNAMIC ENGINEERING OF CONFLICTS.

GRAPHIC SCALE



THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DYNAMIC ENGINEERING LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING	
1904 Main Street Lake Como, NJ 07719 T: 732.974.0198 F: 732.974.0198	
Lake Como, New Jersey T: 732.974.0198 Chester, New Jersey T: 732.974.0198 Marlton, New Jersey T: 856.334.2000 Newark, New Jersey T: 973.755.7200 Trenton, New Jersey T: 732.974.0198 Allentown, New Jersey T: 732.974.0198 Allentown, Pennsylvania T: 732.974.0198 Allentown, Pennsylvania T: 732.974.0198 Allentown, Pennsylvania T: 732.974.0198 Allentown, Pennsylvania T: 732.974.0198 Allentown, Pennsylvania T: 732.974.0198	
TITLE: GRADING, DRAINAGE AND UTILITY PLAN	
PROJECT: SIMPLY STORAGE BARNEGAT, LLC PROPOSED SELF-STORAGE EXPANSION BLOCK 263, LOT 1.01 220 SOUTH MAIN STREET BARNEGAT TOWNSHIP, OCEAN COUNTY, NEW JERSEY	JOB No: 1414-24-01325 DRAWN BY: RPK DESIGNED BY: KED CHECKED BY: RPF CHECKED BY: -
DATE: 06/11/2025 SCALE: (H) 1"=30' (V) 1"=30'	SHEET No: 5 OF 11 Rev. # 1
ROBERT P. FREUD PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41938	
RYAN McDERMOTT PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 56559	
PROTECT YOURSELF ALL STATES REQUIRE REGISTRATION OF CONTRACTORS. IF YOU ARE NOT A REGISTERED CONTRACTOR, YOU MAY BE PENALIZED FOR VIOLATING THE STATE'S PROFESSIONAL ENGINEERING ACT. CALL 811 FOR MORE INFORMATION. FOR STATE-SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM	

STANDARD FOR STABILIZATION WITH MULCH ONLY

1. 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 ROAD GRADING.
b. INSTALL NUTRIENT ENRICHMENT CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRASS STABILIZATION STRUCTURES, CHANNEL REVISIONS, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
2. PROTECTIVE MATERIALS
a. UNROOTED SMALL-GRAIN STRAW, AT 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 THE DOWN, OTHER SUITABLE MATERIALS MAY BE USED IF THEY DO NOT SOIL CONSIDERABLY. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUAL INSPECTION. LE THE SOIL CANNOT BE SEEN BELOW THE MULCH.
b. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.
c. WOODEN FENCE 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 PAPERIZER.
d. MULCH NETTING, SUCH AS PAPER JUTE, ENCLASURE, COTTON, OR PLASTIC, MAY BE USED.
e. 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.
f. CORNEL, CRUSHED 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. SEE (ASTM C-33) IS RECOMMENDED.
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 IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES:
a. PEG AND TWINE
b. MULCH NETTINGS
c. COMBET MULCH ANCHORING COLLIER TOOL
d. LIQUID MULCH-BINDERS

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- SITE PREPARATION**
- A. GRADE AND MAKE AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. IMMEDIATELY PRIOR TO TOSPOD AND TOSPOD APPLICATION, THE SURFACE SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
 - C. TOSPOD SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 4 INCHES (ONE INCH) IS REQUIRED ON ALL SITE TYPES. TOSPOD SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOSPOD.
 - D. INSTALLED NEEDED EROSION CONTROL PRACTICES FOR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- 2. SEEDING PREPARATION**
- A. UNIFORMLY APPLY GRADE LIMESTONE AND FERTILIZER TO TOSPOD WHICH HAS BEEN SPREAD AND FIRMED. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH SOAK WATER INSOLUBLE NITROGEN UNLESS A TOSPOD TEST INDICATES OTHERWISE AND INCORPORATED AT A DEPTH OF 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONLY HALF THE RATE DESIRED. REPEAT DURING SEEDING PREPARATION AND REPEAT HOWEVER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN A 3 TO 5 WEEKS AFTER SEEDING.
 - B. WORK LINE AND FERTILIZER INTO THE TOSPOD AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH DOGS, SPRING-TONGUE HARROW, OR OTHER TYPE OF IMPLEMENT. THE TILLAGE HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
 - C. HIGH ACID PRODUCING SOILS SHALL HAVE A P OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A P OF 5 OR MORE BEFORE INITIATING SEEDING. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR FURTHER REQUIREMENTS.
- 3. SEEDING**
- SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY NUTRIENT CONSERVATION EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE. AGRICULTURAL SEEDS FOR THE CONSERVATION DISTRICT, SEED COMPARISON HAS BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED.
- B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, OR OUTCATCHER SEEDER. EXCEPT FOR DRILLED, HOLLOWED OR OUTCATCHED SEEDING, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 INCHES OF SEEDING PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAINING OR DRAGGING. THE DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOILS.
- C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPABILITY, AND IMPROVE SEEDING PERFORMANCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SEED EROSION WILL BE MINIMIZED AND WATER PENETRATION WILL BE IMPROVED.
- D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TANK, 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. SHORTERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-4 MULCHING.)
- E. FOLLOWING PREPARED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE, SEEDING SHALL BE INCORPORATED INTO THE SOIL WHEN POOR SEED TO SOIL CONTACT OCCURS. THERE IS A REDUCED SEED GERMINATION AND GROWTH.
- 4. MULCHING**
- MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DETERMINED COMPARING WITH MULCHING REQUIREMENT.
- A. STRAW OR WHEAT UNROOTED SMALL GRAM STRAW, FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1-1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET). EXCEPT THAT WHERE A CROMPER IS USED INSTEAD OF A LIQUID-MULCHER, TACKLING OR ADHESIVE AGENT AT THE RATE OF APPLICATION IS 3 LBS PER ACRE. MULCH CROMPER-MULCH SHALL NOT GROUND THE MULCH. HAY SHALL NOT BE COMBINED WITH ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

- NOTE: GRADE AS NECESSARY AND FERTILIZER TO THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MUCH ANCHING; ALL PLANTING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG. 19-1.
2. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL REPAIRS, ETC.
3. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCAFFLED TO 0.12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
- SEEDBED PREPARATION
1. APPLY GRAIN, LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS (SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MATERIALS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES).
- FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 111 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. SOIL WITH MODERATE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
- CALCIUM CARBONATE IS THE EQUIVALENT STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY. SOILS WITH A pH OF 5.5 OR LESS REQUIRE 100 POUNDS PER ACRE OF CALCIUM CARBONATE.
2. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC-SPOONDRORTH HARROW, OR EQUIVALENT. THE SEEDS SHOULD BE PLACED IN THE SOIL WITH A SEEDING MACHINE OR BY HAND. SEEDING SHOULD BE DONE IN THE EARLY MORNING, AT A REASONABLE UNIFORM SEEDING IS PREPARED.
3. IF THE SEEDBED IS NOT SEEDING, IT SHOULD BE ROLLED WITH A ROLLER OR HARROW. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETIRED IN ACCORDANCE WITH THE ABOVE.
4. SOILS HIGH IN SULPHUR OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR STANDARD FOR ACID PRODUCING SOILS, PG. 1-1.
- SEEDING
- A. TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTHS
- COOL SEASON GRASSES
- (1) PERENNIAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 0.5 INCHES.
- (2) SPUR TOP - 86 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
- (3) WINTER BARNY - 96 LBS / ACRE; PLANT BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
- (4) ANNUAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND JUNE 15 BETWEEN AUGUST 1 AND SEPTEMBER 15; AT A DEPTH OF 0.5 INCHES.
- (5) WINTER CEREAL RYE - 112 LBS / ACRE; PLANT BETWEEN MARCH 1 AND NOVEMBER 15; AT A DEPTH OF 1.0 INCHES.

-WARM SEASON GRASSES:

2. MILLET (GERMAN OR HUNGARIAN) - 30 LBS / ACRE, PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES.
3. CONVENTIONAL SEEDING, APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DRIP SEEDER, DRILL OR OUTCROPKUR SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR OUTCROPKUR SEEDING, 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 COARSE TEXTURED SOIL.
4. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND A HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. SEEDING SHALL NOT BE INCORPORATED INTO THE TANK SOIL. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDING FOLLOWING SEEDING. (ALSO SEE SECTION 10 MULCHING) 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.
5. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CLAPPABILITY, AND IMPROVE THE SOIL SURFACE. THE ROLLING METHOD, WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4. 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 DEMED EQUIVOCAL WITH THIS MULCHING REQUIREMENT.
5. STRAW OR HAY, UNROTTED SMALL GRASS STRAW, HAY FREE OF SEEDS, 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 CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE TYPE), THE MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. CRUMPER MULCHING DOES NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
- APPLICATION, SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% 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 SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS OF WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND:
1. PEG AND TWINE
 2. MULCH NETTINGS
 3. CRUMPER MULCH ANCHORING CROWD TOOL.
 4. LIQUID MULCH-BINDERS

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 PROJECT MANUFACTURER) AND MAX.

- C. PELLETED MULCH, COMPOSTED AND EXTENDED PAPER AND/OR WOOD FIBER TOPSOIL, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, CHEMICAL OR PHYSICAL CONTAMINANTS, OR WHEN APPLIED TO A SANDY AREA AND WIND-SPRAYS, MULCH MAY PELLETED 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 WATER. THIS MATERIAL HAS BEEN FOUND TO BE EFFECTIVE FOR WEED CONTROL. MULCHES THAT REQUIRE WEED-SEED FREE MULCH MATERIAL IS DESIRED FOR SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.
- APPLYING THE FLUFF 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.
- ## **STANDARD FOR TOPSOILING**
1. MATERIALS
- A. TOPSOIL SHOULD BE FRANKLIN, LOAMY, FREE OF DEBRIS, OBSTRUCTIVE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCES OR FERTILIZERS. CHEMICAL OR PHYSICAL CONTAMINANTS THAT MAY BE HARMFUL TO PLANT GROWTH. SOILABLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMOHS PER CENTIMETER. MORE THAN 0.5 MILLIMOHS MAY DEGRADATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL MAY HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE INCREASED BY ADDING COMPOST TO THE TOPSOIL.
- B. TOPSOIL SUBSTITUTS IS SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL. TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. TOPSOIL SUBSTITUTES SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, NUTRIENT, SOLUBLE SALTS AND PH LEVEL.
2. STRONG FIELD EXPLOERATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING. A FIELD EXPLOERATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
3. WHERE FIELD EXPLOERATION IS NOT REQUIRED, STRIPPING SHALL BE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5.
4. A 4-6 INCH DEPTH OF TOPSOIL IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
5. WHERE FIELD EXPLOERATION IS NOT REQUIRED, TOPSOIL SHALL BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
6. GROUNDSHEDS SHOULD BE VEGETATED IN ACCORDANCE WITH THE STANDARDS PREVIOUSLY DESCRIBED HEREIN. SEE STANDARDS FOR PERMANENT (PG. 4-1) OR TEMPORARY (PG.7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW.

3. SITE PREPARATION
A GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO

- EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE.
6. GRADES AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
7. SOILS FOR IDEAL GOLF COURSE PLAY SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF PRACTICAL, SHOULD BE APPLIED AT A RATE OF 4 TO 6 APPROXIMATELY 6" AND INCORPORATED INTO THE SOIL AS NEARLY AS FEASIBLE TO A DEPTH OF 4 INCHES. BRING SOIL TO A 4" OF APPROXIMATELY 6" AND INCORPORATED INTO THE SOIL AS NEARLY AS FEASIBLE TO A DEPTH OF 4 INCHES. PRIOR TO TOPDRESSING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING.
8. EMPLOY PROPER EROSION CONTROL MEASURES, SUCH AS DIMENSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS.
4. APPLYING TOPSOIL
- A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE, I.E., LESS THAN FIELD CAPACITY.
- B. A UNIFORM APPLICATION AT AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED FOR SPECIAL PLAYERS AND/OR INDUSTRY DESIGN SPECIFIC STANDARDS ARE APPLICABLE TO THE GOLF COURSE. SPORTS FIELDS MAY BE TOPDRESSED WITH TOPSOILS THAT ARE NOT CONTAINING ORN SUFFLER SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.8 OR MORE.
- C. THE REQUIREMENT FOR THE REAPPLICATION OF TOPSOIL FOR PERMANENT VEGETATION STABILIZATION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING: SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF OTHER MIXTURES.

SOIL EROSION & SEDIMENT CONTROL NOTES:

1. EROSION CONTROL AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE CONSTRUCTION FOOTPRINT AND SHALL NOT BE SUBJECT TO CONSTRUCTION TRAFFIC. SHALL IMMEDIATELY REPLACE A TEMPORARY SEEDING, IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BE BOUND IN ACCORDANCE WITH THE STATE STANDARDS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH).
3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE CONSTRUCTION FOOTPRINT AND SHALL NOT BE SUBJECT TO CONSTRUCTION TRAFFIC.
5. LIME - 90 LBS/5'x10'x5' OF GROUND LIMESTONE; FERTILIZER - 11 LBS/1,000 SQ. YD. 10-20-10 OR EQUIVALENT WORKED INTO SOIL TO A MINIMUM OF 4".
6. COOL SEASON:
 - A. PERENNIAL RYE GRASS 10,000 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND NOVEMBER 15.
 - B. WARM SEASON:
 - 1. PEARL MILLET AT 20 LBS/AC. OR OTHER APPROVED SEEDS; PLANT BETWEEN MAY 15 AND AUGUST 15.
 - 2. MULCH: SALT HAY OR SMALL CORN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SQ. YD. TO BE APPLIED ACCORDING TO THE STATE STANDARDS.
7. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
8. TEMPORARY BARRIERS ARE TO BE INSTALLED ON ALL CLEARED ROADSIDES AND EASEMENT AREAS IN ACCORDANCE WITH THE STATE STANDARDS.
9. ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE CONSTRUCTION FOOTPRINT AND SHALL NOT BE SUBJECT TO CONSTRUCTION TRAFFIC. DRAINWAYS AND PARKING AREAS: IN AREAS WHERE NO UTILITIES ARE PRESENT, SUB-BASE WILL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
10. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
11. ANY STEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACK FILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GRADED TO 4:1).
12. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AFTER EVERY STORM EVENT.
13. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOOD PLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY MULCH OR OTHER APPROVED MEASURES.
14. A CRUSHED STONE VEHICLE WHEEL CLEANING BASIN WILL BE INSTALLED IMMEDIATELY AFTER INITIAL SITE DISTURBANCE AND WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. BASIN SHALL BE 1-1/2' TO 2' CRUSHED STONE AND AT LEAST 10' LONG BY 10' WIDE.
15. MAXIMUM SLOPE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
16. ANY INDIVIDUAL SLOPES OF ROADS OR DOWNS MUST BE STABILIZED WITH 2-1/2' CRUSHED STONE PRIOR TO COMMENCEMENT OF CONSTRUCTION ON THAT AREA.
17. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
18. ALL CATCH BASIN INLETS MUST BE PROTECTED WITH A CRUSHED STONE OR HAY BALE FILTER (SEE DETAIL).
19. PERMANENT OUTLET PIPE SHALL BE INSTALLED OR ALL REQUIRED OUTLET FALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
20. ALL BUILT-UP WATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHALL BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC (SEE DETAIL).
21. PERMANENT STABILIZATION TO BE DONE OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
22. PERMANENT STABILIZATION SPECIFICATIONS: SEEDING
 - A. MULCH MATERIALS TO BE UNROOTED SALT HAY, OR SMALL GRASS STRAW AT THE RATE OF 1.5 TO 2 TONS PER ACRE OR 70 TO 90 POUNDS PER 1,000 SQ. YD.
 - B. SPREAD UNROOTED SALT HAY OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF SOIL SURFACE WILL BE COVERED.
 - C. MULCH ANCHORING TO BE DONE IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:
 - (1) PEGS AND TWINE
 - (2) MULCH NETTING
 - (3) LIQUID MULCH-BINDERS
23. ALL UNSTABILIZED AREAS TO BE SPRINKLED WITH WATER UNTIL SOIL AT THE BEGINNING OF EACH DAY TO CONTROL DUST.
24. ALL EXPOSED AREAS OF PH OR LESS OR CONTAINING NO SURFACES SHALL BE COVERED WITH A MINIMUM OF 1" OF SOIL HAVING A PH OF 5.0 OR MORE PRIOR TO SEEDING PERMANENTLY.
25. AT THE TIME OF SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION, ANY SOIL NOT SUITABLE TO SUPPORT AGGRESSIVE VEGETATION SHALL BE RECYCLED OR RECLAIMED IN SUCH A WAY THAT IT WILL BE USED TO ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEASURES OR PERMANENT GROUND STABILIZATION WILL HAVE TO BE PROVIDED.
26. THE DISTRICT ENGINEER SHALL BE NOTIFIED PRIOR TO THE SOIL CONSERVATION DISTRICT ISSUING A REPORT OF COMPLETION FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
27. FOR THE CONSERVATION DISTRICT, MAY REQUEST REDEMPTION OF THE NECESSARY TO MINIMIZE ON OR OFF SITE LANDS DISTURBANCE DURING THE CONSTRUCTION OF THE PROJECT. REDEMPTION OF THE NECESSARY TO MINIMIZE ON OR OFF SITE LANDS DISTURBANCE.
28. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS 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 STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.

SEED/ SOD BED PREPARATION NOTES

- A. STEPS WHICH ARE TO BE FOLLOWED FOR PROPER SEEDBED PREPARATION.
 - a. 5" (UNSETTLED) OF GOOD QUALITY TOPSOIL IS TO BE GRADED ON LOT.
- B. THE SEEDBED SHOULD FURTHER BE PREPARED BY FERTILIZING AND LIMING. UNLESS SOIL TESTS ARE AVAILABLE FOR REVIEW, THE LANDSCAPE MUST APPLY.
 - i. 10-10-10 @ 500 LBS. PER ACRE.
 - ii. 38-0-0 (SLOW RELEASE NITROGEN) @ 300 LBS. PER ACRE.
 - iii. APPLY LIMESTONE APPROXIMATELY 90 LBS. PER 1,000 SQUARE FEET.
- C. THESE FERTILIZERS AND LIMESTONE SHOULD BE WORKED INTO THE TOPSOIL PRIOR TO SEEDING.
- D. MULCH IS TO BE APPLIED ON TOP OF THE SEEDBED AT A RATE OF 20 TONS OR 90-115 LBS. PER 1,000 SQUARE FEET. THIS MULCH IS TO BE SPREAD EVENLY TO COVER 95-100% OF THE GROUND SURFACE. MULCH USED IS TO BE SALT HAY OR SMALL GRASS STRAW AND IS REQUIRED ON ALL SEEDINGS.
- E. AFTER MULCHING IS ACCOMPLISHED, PAPER BARRIER MULCH, APPLIED BY THE HYDRO SEEDER AT A RATE OF 1500 LBS. PER ACRE IS TO BE SPREAD ON THE STRAW MULCH. IT IS TO BE ADDED THAT APPLICATIONS OF PAPER MULCH ARE TO BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN SWALES, AND AT SLOPES WHICH ARE STEEPER THAN 5% OR ONE FOOT RISE PER 20 FEET HORIZONTAL DISTANCE.

STABILIZATION SPECIFICATIONS - TEMPORARY SEEDING AND MULCHING:

- LIMESTONE - 2 TONS/ ACRE UNLESS SOIL TESTING INDICATES OTHERWISE.
- FERTILIZER - 500 LBS/ ACRE OR 11 LBS/ 1000 SF OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
- SEEDS -
- COOL SEASON:
 - PERENNIAL RYE GRASS 100LBS/ACRE OR OTHER APPROVED SEEDS;
 - PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
- WARM SEASON:
 - PEARL MILLET AT 20 LBS/AC OR OTHER APPROVED SEEDS;
 - PLANT BETWEEN MAY 15 AND AUGUST 15
- MULCH - UNROOTED SMALL GRASS STRAW, HAY FREE OF SEEDS, OR SALT HAY AT A RATE OF 1.5-TONS PER ACRE TO 90 LBS/1,000 SF, OR TO BE APPLIED ACCORDING TO THE STATE STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (IE. PEG AND TWINE, MUCKLINGS, LIQUID POLYURETHANE, ETC.)

PERMANENT SEEDING

- GENERAL SITE SEEDING MIX:
- | | | |
|--------------------|--------------|---------------------|
| HARD FESCUE | 175 LBS/ACRE | 4.0 LBS/1000 SQ.FT. |
| PERENNIAL RYEGRASS | 45 LBS/ACRE | 1.0 LBS/1000 SQ.FT. |
| RYE BULGRASS | 45 LBS/ACRE | 1.0 LBS/1000 SQ.FT. |
- PERMANENT STABILIZATION SPECIFICATIONS: MULCHING
- MATERIALS TO BE UNLIMBED SMALL GRASS STRAW, HAY FREE OF SEEDS, OR SAW HAY AT THE RATE OF 1.5 TO 2 TONS PER ACRE OR EQUIVALENT. THE MULCHING OPERATION MUST BE COMPLETED IMMEDIATELY AFTER THE SEEDING OPERATION. THE RATE OF APPLICATION IS 3 TONS PER ACRE.
- SPECIAL UNIFORMITY OF SEED COVERAGE: ACCEPT THAT WHERE A CRIMPER IS USED IMMEDIATELY AFTER A LIQUID SEEDING OPERATION, THE CRIMPER WILL COVER THE SEEDS AND THE RATE OF APPLICATION IS 3 TONS PER ACRE.
- MULCH ANCHORING TO BE DONE MECHANICALLY SO THAT APPROXIMATELY 85% OF SOIL SURFACE WILL BE COVERED.
- TEST AND TIME
- (1) MULCH ANCHORING
- (2) MULCH NETTING
- (3) LIQUID MULCH-BINDERS
- (4) CRIMPER (MULCH ANCHORING COLLATERAL TEST)

STANDARD FOR STABILIZATION WITH MULCH ONLY

- A. UNROTTED SMALL-GRAIN STRAW, OR SALT HAY AT 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 THE FOLLOWING DAY. OTHER SUITABLE MATERIALS MAY BE USED AT THE DISCRETION OF THE SOIL CONSERVATION DISTRICT.
- B. ASPHALT EMULSION IS RECOMMENDED AT THE RATE OF 600 TO 1,200 GALLONS PER ACRE. THIS IS SUITABLE FOR A LIMITED PERIOD OF TIME WHEN THE WEATHER IS DRY AND WINDY.
- C. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.
- D. WOOD-CHIP OR PAPER-FIBER MULCH AT THE RATE OF 1.500 POUNDS PER ACRE OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS MAY BE USED.
- E. MULCH NETTING, SUCH AS PAPER JUTE, EXCELLOX, COTTON, OR PLASTIC, MAY BE USED.
- F. REPAIR CRACKS TO A MINIMUM DEPTH OF 2 INCHES WITH A CRACK FILLER.
- G. GRAVEL, CRUSHED STONE, OR SLAG AT A RATE OF 8 CUBIC YARDS PER 1000 SQ. FT. AT DEPTH OF 3 INCHES.
- H. MULCH ANCHORING TOOL MUST BE USED IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:
- (1) PEG AND STONE
 - (2) MULCH NETTING
 - (3) LIQUID MULCH-BINDERS
 - (4) CRUMPER (MULCH ANCHORING COLLATER TOOL)

OCEAN COUNTY SOIL EROSION & SEDIMENT CONTROL

GENERAL NOTES

1. THE DISTRICT INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION, JANUARY 2014, REVISED JULY 2017. (SEE STANDARDS 1-5)
2. ANY CHANGES TO THE STANDARD EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT. THE REVISED PLANS MUST MEET ALL CURRENT SECC STANDARDS.
3. STANDARDS: [HTTP://WWW.STATE.NJ.US/AGRICULTURE/DMSONS/ANRC/NRCEROSION.HTM](http://www.state.nj.us/agriculture/dmsoans/anrc/nrcerosion.htm)
4. ANY AREAS OF EXPOSED SOIL THAT ARE NOT PROTECTED BY EROSION CONTROL MEASURES THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES, ALL SITE WORK, AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETE PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
5. ANY AREAS OF EXPOSED SOIL THAT ARE NOT PROTECTED BY EROSION CONTROL MEASURES SHALL BE COVERED WITH A MINIMUM OF 10% OF THE IMMEDIATELY RECENT TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION. IF THE SEASON PERMITS THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL WITHIN 14 DAYS, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE AND MAINTAINED IN PLACE THROUGHOUT THE SEASON.
6. IMMEDIATE FOLLOWING INITIAL VEGETATION TO BE PLANTED ON ALL EXPOSED AREAS SUBJECT TO EROSION (ON STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION IN COMBINATION WITH STRAW MULCH (OR A SUITABLE EQUIVALENT), AT A RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHORED IN PLACE ACCORDING TO THE SECC STANDARDS.
7. ANY AREAS OF EXPOSED SOIL THAT ARE NOT PROTECTED BY EROSION CONTROL MEASURES SHALL BE COVERED WITH A MINIMUM OF 10% TO STABILIZE STRIPS, ROWS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
8. ANY EXPOSED SOIL THAT IS NOT PROTECTED BY EROSION CONTROL MEASURES SHALL BE COVERED WITH A MINIMUM OF 10% TO STABILIZE DRAINS, AS THE INSTALLATION CONTINUES.
9. ANY EXPOSED SOIL THAT IS NOT PROTECTED BY EROSION CONTROL MEASURES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILL AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES.
10. THE SECC STANDARD FOR STABILIZED CONSTRUCTION AREAS REQUIRES THE INSTALLATION OF A STONE PAD USING CLEAN, CRUSHED, ANGULAR STONE (ASTM #2, SIZE NO. 2 OR 3) AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS.
11. PERMANENT VEGETATION IS TO BE SEEDS OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING, AT THE TIME OF THE FINAL INSPECTION. YOU ARE REQUIRED TO PROVIDE CONFIRMATION THAT THE PROPER TYPE AND AMOUNT OF SEED, LIME AND FERTILIZER HAVE BEEN USED IN ACCORDANCE WITH THE SECC STANDARD FOR SOIL STABILIZATION.
12. AT THE TIME OF THE FINAL INSPECTION, PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE SUSTAINABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL IS NOT SUITABLE FOR CONSTRUCTION, THE DISTRICT MAY REQUIRE THE SUBMITTER TO PROVIDE A LETTER OF AGREEMENT TO THE DISTRICT.
13. IN ACCORDANCE WITH THE SECC STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING ION SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO PRELIMINARY PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL.
14. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. CONDUIT OUTLET PROTECTION INSTALLATION SHALL BE POSTPONED IN BASINS ACTING AS SEDIMENT BASINS DURING CONSTRUCTION.
15. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY PRELIMINARY OPERATIONS. THE DISTRICT MAY REQUIRE OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DETOURING METHODS USED SHALL BE IN ACCORDANCE WITH THE SECC STANDARD FOR DETOURING.
16. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION SHALL BE PLANTED AND THE SITE SHALL BE COVERED WITH A MINIMUM OF 10% TO STABILIZE AREAS AS REQUIRED BY THE SECC STANDARD FOR DUST CONTROL.
17. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. ANY AREAS OF EXPOSED SOIL THAT ARE NOT PROTECTED BY EROSION CONTROL MEASURES SHALL BE COVERED WITH A MINIMUM OF 10% TO STABILIZE AREAS AS REQUIRED BY THE SECC STANDARD FOR DUST CONTROL.
18. STOCKPILES AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN IS TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
19. STOCKPILES AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN IS TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
20. STOCKPILES AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN IS TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
21. STOCKPILES AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN IS TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
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STANDARD FOR DEWATERING

- REMOVABLE PUMP STATIONS ARE USED WHEN LONG DURATIONS OF PUMPING ARE REQUIRED. THE NUMBER OF REMOVABLE STATIONS AND THEIR LOCATIONS SHALL BE SHOWN ON THE PLANS. WATER PUMPED FROM THE STATION SHALL BE DISCHARGED INTO THE RECEIVING WATER BODY OR A SUITABLE FILTER AREA.
- A. THE SUCTION HOSE FROM THE PUMP SHALL BE PLACED INSIDE THE INNER PIPE TO PREVENT DRAINING. THE DISCHARGE HOSE SHALL BE PLACED IN A STABILIZED AREA DOWNSTREAM OF NOT STABILIZED AREAS TO PREVENT EROSION.
3. MAINTENANCE - THE INNER PIPE CAN EASILY BE REMOVED TO FACILITATE CHANGING THE GEOTEXTILE WHEN IT CLOS. MAINTENANCE MUST BE PERFORMED WHEN THE PUMP RUNS DRY AND BACKED UP WATER REMAINS.
2. SUMP PITS ARE TEMPORARY PITS WHICH ARE USED TO REMOVE EXCESS WATER WHILE MINIMIZING SEDIMENTATION. THE NUMBER OF SUMP PITS AND THEIR LOCATIONS SHALL BE INDICATED ON THE PLANS. PITS MAY BE RELOCATED TO OPTIMIZE THE LOCATION OF THE PUMP STATION. SUMP PITS SHALL BE CONSTRUCTED WITH A PERFORATED VERTICAL STAINLESS STEEL PIPE WITH 2" HARDWARE CLOTH AND GEOTEXTILE FILTER THEN PLACED IN THE CENTER OF AN EXCAVATED PIT WHICH IS THEN BACKFILLED WITH FILTER MATERIAL CONSISTING OF ANYTHING FROM CLEAN GRAVEL (SMALL FRACTIONS) TO ASTM C 33 (3" TO 2" MAXIMUM DRAINAGE). WATER IS THEN PUMPED FROM THE CENTER OF THE STAINLESS STEEL PIPE THROUGH THE GEOTEXTILE FILTER INTO THE RECEIVING WATER BODY.
3. SEDIMENT TRAP - A SILT CONTROL BAG OR CONTAINER THROUGH WHICH SEDIMENT CAN BE PULSED TO TRAP AND RETAIN THE SEDIMENT. A SEDIMENT TRAP OR A SILT CONTROL BAG IS TO BE USED ON SITES WHERE STORMS ARE DEEP AND THE SPACE IS LIMITED AND WHERE DIRECT DISCHARGE OF SEDIMENT LOADED WATER TO STREAM AND STORM DRAINAGE PREPARATIONS IS TO BE AVOIDED.
4. CONSTRUCTION SPECIFICATIONS
- LOCATION. CONTAINERS (TANKS OR BAGS) SHALL BE LOCATED FOR EASE OF CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND PEDESTRIAN TRAFFIC. BAGS SHALL NOT BE PLACED DIRECTLY INTO RECEIVING WATERS.
 - TANK SIZE. THE FOLLOWING TABLE WILL BE USED FOR DETERMINING THE STORAGE VOLUME OF THE TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE VOLUME. TYPICAL TANK CONFIGURATION IS SHOWN ON TABLE 14-3. TANKS MAY BE CONNECTED IN SERIES TO REDUCE INEFFECTIVENESS.
 - TANK DESIGN. A TWO CONCENTRIC CIRCULAR PIPES (CMP). IS ATTACHED TO A WATERTIGHT BASEPATE. THE INNER CMP IS PERFORATED WITH 1" HOLES ON 6" CENTERS AND IS WRAPPED WITH GEOTEXTILE AND HARDWARE CLOTH. PUMPED WATER IS DISCHARGED INTO THE INNER CMP WHERE IT FLOWS THROUGH THE GEOTEXTILE INTO THE SPACE BETWEEN THE TWO CMPS. A DISCHARGE LINE IS ATTACHED TO THE OUTER CMP AND DRAWS FILTERED WATER INTO THE RECEIVING WATER BODY. THE DISCHARGE LINE OF THE SECOND TANK MAY BE CONNECTED TO ANOTHER TANK WHERE IT DRAINS TO THE INNER CMP OF THE SECOND TANK. THIS SERIES CONNECTION MAY BE CONTINUED INDEFINITELY.
 - SEDIMENT CONTROL BASINS MUST BE LOCATED AWAY FROM RECEIVING WATER AND DISPOSED OF ACCORDING TO THE CONTRACTOR'S INSTRUCTIONS. BASINS MAY BE COMBINED WITH TEMPORARY FILTERS (ITEM 4, FOLLOWING) FOR ENHANCED PERFORMANCE.
4. TEMPORARY FILTERS FOR SMALL IMPROVEMENTS - FOR SMALL QUANTITIES OF PUMPED WATER SUCH AS MAY BE FOUND IN SHALLOW EXCAVATIONS (SMALL TRENCHES, MANHOLE INSTALLATIONS ETC) A SEDIMENT FILTER MAY BE CONSTRUCTED USING COMBINATIONS OF HAY BALES, SMALL CLOTH SCREEN AND FILTER BAGS. THIS METHOD IS LIMITED TO SMALL PLOTS OF PUMPED WATER. THE FILTERING OF WELL POINTS IS EXCLUDED FROM THIS STANDARD) AND WHERE SEDIMENTS ARE NOT HIGHLY COLLOIDAL IN NATURE.

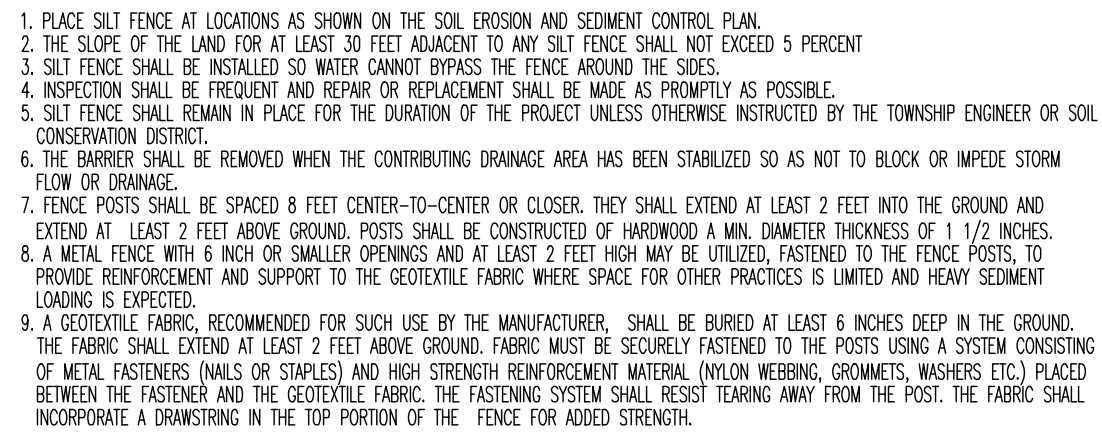
STANDARD FOR MAINTAINING VEGETATION

- MANAGEMENT SHOULD OCCUR ON A REGULAR BASIS, CONSISTENT WITH FAVORABLE PLANT GROWTH, SOIL, AND CLIMATIC CONDITIONS. THIS INCLUDES REGULAR SEASONAL WORK FOR MOWING, FERTILIZING, LIMEING, WEEDING, PRUNING, FIRE, AND OTHER BEST MANAGEMENT PRACTICES THAT ARE NECESSARY TO MAINTAIN THE DESIRED TYPE OF PREVENTIVE NATURALIZATION. THE FOLLOWING ARE THE TYPES OF VEGETATION AND ITS PROPOSED FUNCTION OR USE:
1. MOWING IS A RECURRING PRACTICE AND ITS INTENSITY DEPENDS UPON THE FUNCTION OF THE GROUND COVER. ON GRASS AND MEADOWS (A) TO MAINTAIN AREAS, SUCH AS LAWNS, CERTAIN RECREATION FIELDS, AND PONDIC AREAS, MOWING WILL BE FREQUENT (2 TO 7 DAY INTERVALS) AND TYPICALLY AT A HEIGHT OF 2.5 TO 3 INCHES. RETURN CLIPPINGS FROM MOWING (MULCHING) WOULD TO THE TURF TO REDUCE THE AMOUNT OF FERTILIZER NEEDED TO MAINTAIN THE TURF BY AS MUCH AS 50%. SOME TURF MIXTURES CAN BE MANAGED AS NATURALIZED STANDS AND MAY NOT REQUIRE MOWING. (B) TO MAINTAIN OPEN AREAS, SUCH AS PASTURES, MOWING OF NATURALIZED AREAS IS TYPICALLY DONE AT HEIGHTS NO LESS THAN 4 INCHES AND SHOULD NOT BE DONE BETWEEN APRIL 1ST AND JULY 15TH TO AVOID DISTURBING GROUND NESTING BIRDS. THE LARGE AMOUNT OF CLIPPING DEBRIS GENERATED BY MOWING NATURALIZED AREAS WILL NEED TO BE REMOVED ANDY OR DISPERSED SO THE VEGETATION IS NOT BURIED UNDER THE DEBRIS. (C) TO MAINTAIN OPEN AREAS, SUCH AS PASTURES, MOWING OF NATURALIZED TURFS, LOW MAINTENANCE (D) AREAS MAY BE LEFT UNMOWN TO PERMIT NATURAL SUCCESSION.
 2. INCORPORATION OF ORGANIC MATTER (FOR EXAMPLE, MATURE COMPOST) INTO THE SOIL WILL SUBSTANTIALLY REDUCE THE NEED FOR FERTILIZER AND IRRIGATION INPUTS.
 3. FERTILIZATION OF AREAS WHERE SOILS ARE DEFICIENT TO MAINTAIN A DENSE STAND OF DESIRABLE SPECIES. FREQUENTLY MOWNED AREAS AND THOSE ON SANDY SOILS WILL REQUIRE MORE FREQUENT FERTILIZATION BUT AT LOWER NUTRIENT RATES PER APPLICATION.
 4. FERTILIZER REQUIREMENT SHOULD BE DETERMINED BY SOIL TESTING EVERY 2 OR 3 YEARS. FERTILIZATION MAY INCREASE THE NEED FOR LIMING.
 5. FERTILIZATION AND ADDITIONS OF OTHER ORGANIC AMENDMENTS ARE NOT RECOMMENDED FOR MANAGING NATURAL VEGETATION.
 6. FERTILIZATION OF PONDIC AREAS SHOULD BE USED ONLY AS A LAST RESORT.
 7. WEED INVASION MAY RESULT FROM ABUSIVE MOWING OR FROM INADEQUATE FERTILIZING AND LIMING. MANY NEWLY ESTABLISHED GRASSES WILL NOT SURVIVE IF MOWED AT HEIGHTS BELOW 2.5 INCHES AND AT INTERVALS GREATER THAN 7 DAYS. BRUSH INVASION IS A COMMON CONSEQUENCE OF LACK OF MOWING. THE NUMBER OF WEEDS OR BRUSH SPECIES THAT INVADE AREAS DEPENDS ON THE TYPE OF VEGETATION. BRUSH INVASION MAY BE PREVENTED IF AREAS ARE SUBJECT TO RAPID INESTATION BY WEED AND WOODY PLANTS. THESE SHOULD BE CONTROLLED, SINCE THEY FIRE HAZARD OR GREATER WEED EFFICIENCY. CONTROL OF WEEDS OR BRUSH IS ACCOMPLISHED BY USING HERBICIDES.
 8. FERTILIZATION OF PONDIC AREAS SHOULD BE USED ONLY AS A LAST RESORT.
 9. FIRE HAZARD IS GREATER WHERE DRY VEGETATION HAS ACCUMULATED. THE TALLER THE VEGETATION, THE GREATER THE HAZARD.
 10. REMOVE DEAD AND SHRUBS TO REMOVE DEAD OR DAMAGED BRANCHES. REMOVE UNDESIRABLE OR INVASIVE PLANTS TO MAINTAIN THE INTEGRITY OF THE LANDSCAPE AND ENHANCE QUALITY OF PERMANENT VEGETATIVE COVER.

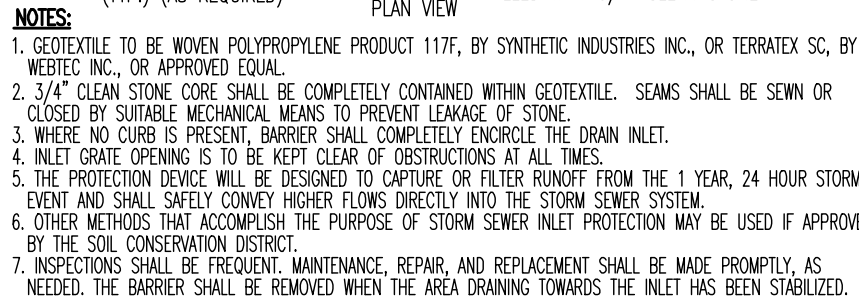
SEQUENCE OF CONSTRUCTION:

- PHASE 1: NOTIFY THE OCEAN COUNTY SOIL CONSERVATION DISTRICT 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
- PHASE 2: INSTALL STORM WATER TRACKING POND AND OTHER SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING FENCE LINE PERIMETER HAYBALKS, SILT FENCING AND TREE PROTECTION FENCING. (1 WEEK)
- PHASE 3: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (2 WEEKS)
- PHASE 4: EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES INCLUDING MODIFICATIONS TO THE EXISTING OUTLET CONTROL STRUCTURE. (1 WEEK)
- PHASE 5: EXCAVATE FOR BUILDING FOUNDATION. (4 WEEKS)
- PHASE 6: COMPLETE BUILDING CONSTRUCTION. (1 WEEK)
- PHASE 7: EXCAVATE AND INSTALL ON-SITE IMPROVEMENTS INCLUDING CURBING, UNDERGROUND PIPING, AND DRAINAGE STRUCTURES. (2 WEEKS)
- PHASE 8: FINAL GRADING ON SITE FINAL GRADING ON SITE AND APPLICATION OF 5" TOPSOIL. (1 WEEK)
- PHASE 9: PERMANENT STABILIZATION OF ALL DISTURBED AREAS. INSTALL PAVING, CONCRETE, AND PLANT VEGETATION INCLUDING SEEDING AND LANDSCAPING. (1 WEEK)
- PHASE 10: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAYBALKS, SILT FENCING AND TREE PROTECTION FENCING. (1 WEEK)
- PHASE 11: OBTAIN A FINAL REPORT OF COMPLIANCE FROM THE OSCSD.

DYNAMIC ENGINEERING LAND DEVELOPMENT CONSULTING PERMITTING GEOTECHNICAL ENVIRONMENTAL SURVEY PLANNING & ZONING OFFICE CONVENIENTLY LOCATED IN: Lake Como, New Jersey 1-732-974-0198 Chester, New Jersey 1-908-879-9229 Marlton, New Jersey 1-856-334-2000 Newark, New Jersey 1-973-755-7020 Tom's River, New Jersey 1-732-974-0198 Allen Twp. 1-973-234-0701 Austin, Texas 1-512-446-2646 Houston, Texas 1-281-328-4401 Del Rio, Texas 1-512-921-8570 Newtown, Pennsylvania 1-767-683-0276 Philadelphia, Pennsylvania 1-215-233-4888 Bethlehem, Pennsylvania 1-610-598-4400 Annapolis, Maryland 1-410-567-5000 www.dynamiceng.com	
TITLE: SOIL EROSION AND SEDIMENT CONTROL NOTES	
PROJECT: SIMPLY STORAGE BARNEGAT, LLC PROPOSED SELF-STORAGE EXPANSION Public Storage BLOCK 263, LOT 1 220 SOUTH MAIN STREET BARNEGAT TOWNSHIP, OCEAN COUNTY, NEW JERSEY	JOB NO: 1414-24-01325 DRAWN BY: RPK DESIGNED BY: KED CHECKED BY: RPF CHECKED BY: -
ROBERT P. FREUD PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 41938 RYAN MCDERMOTT PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 56559	
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Rev. # 1	



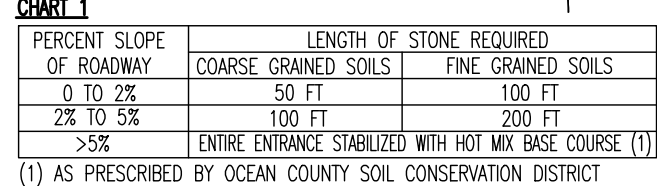
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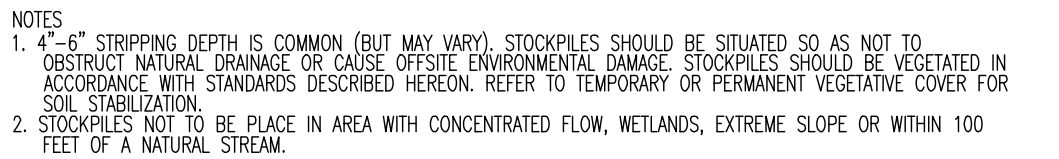
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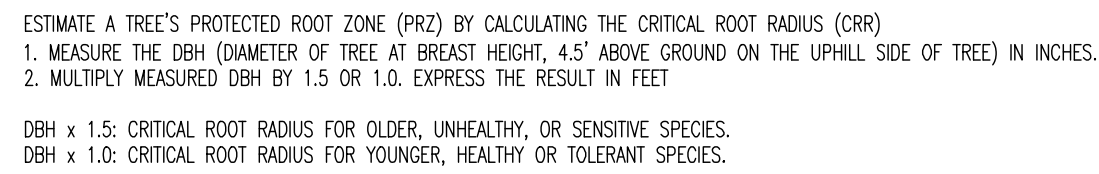
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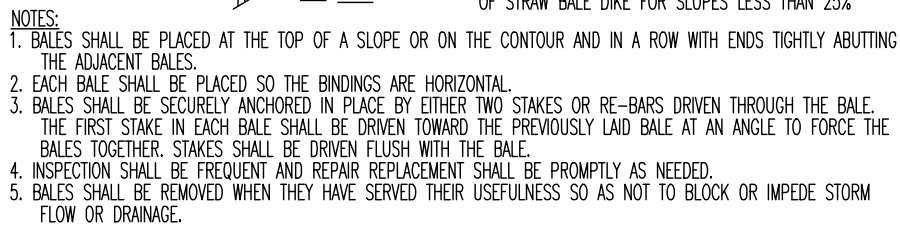
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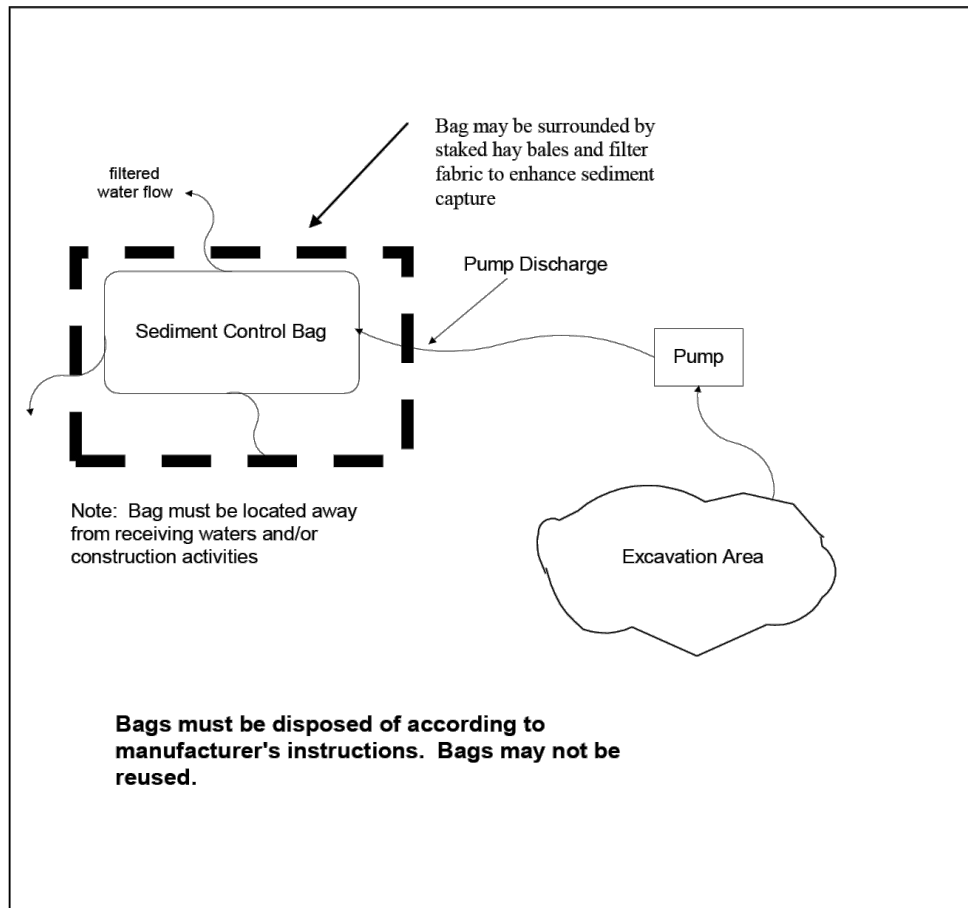


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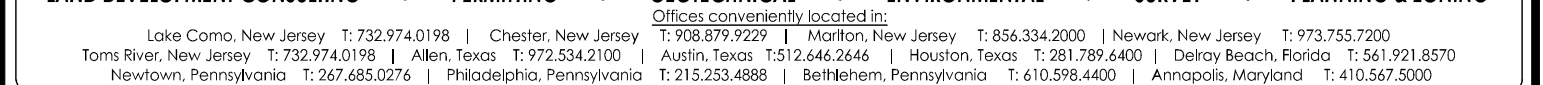
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Detail 14-4 Sediment Control Bag for Dewatering



MUNICIPAL, COUNTY, STATE AND NUA DETAILS TO SUPERSEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE

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SIMPLY STORAGE BARNECOT, LLC JOB No: DATE:

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		CHECKED BY:	

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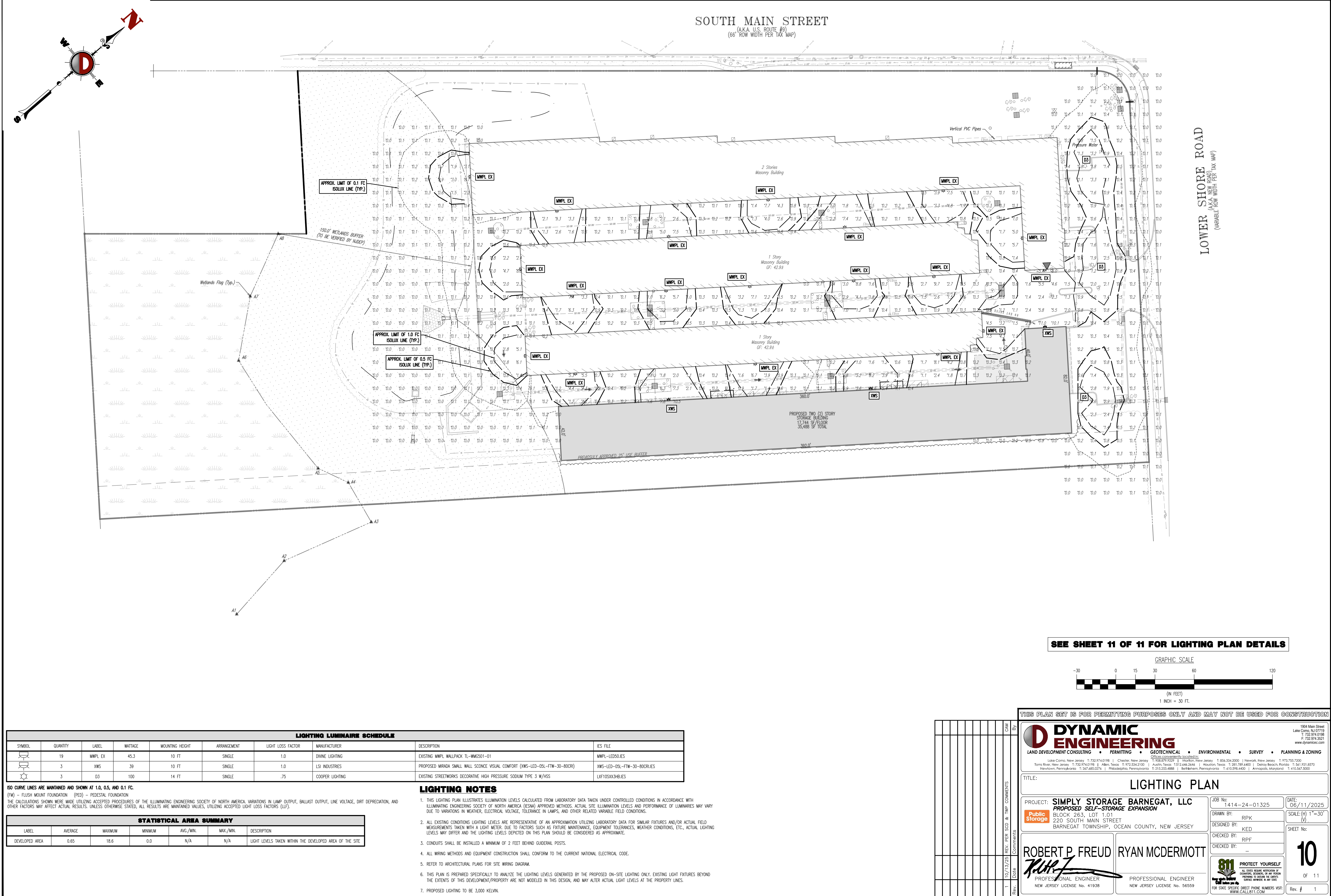
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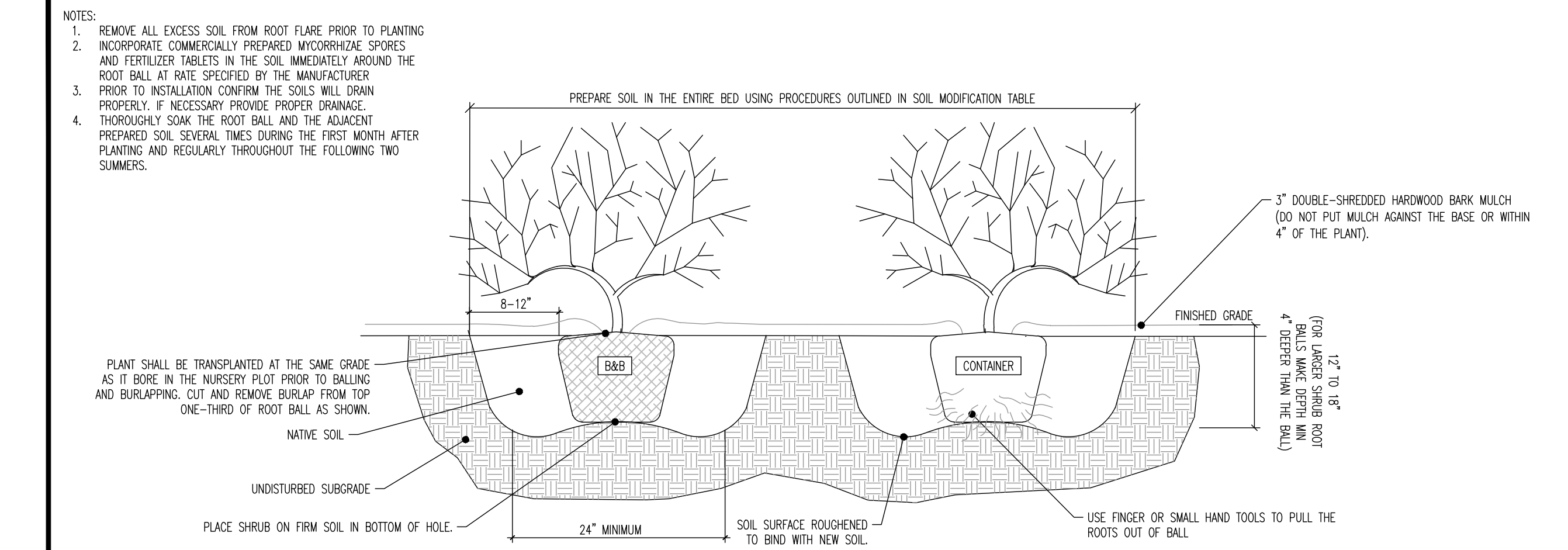
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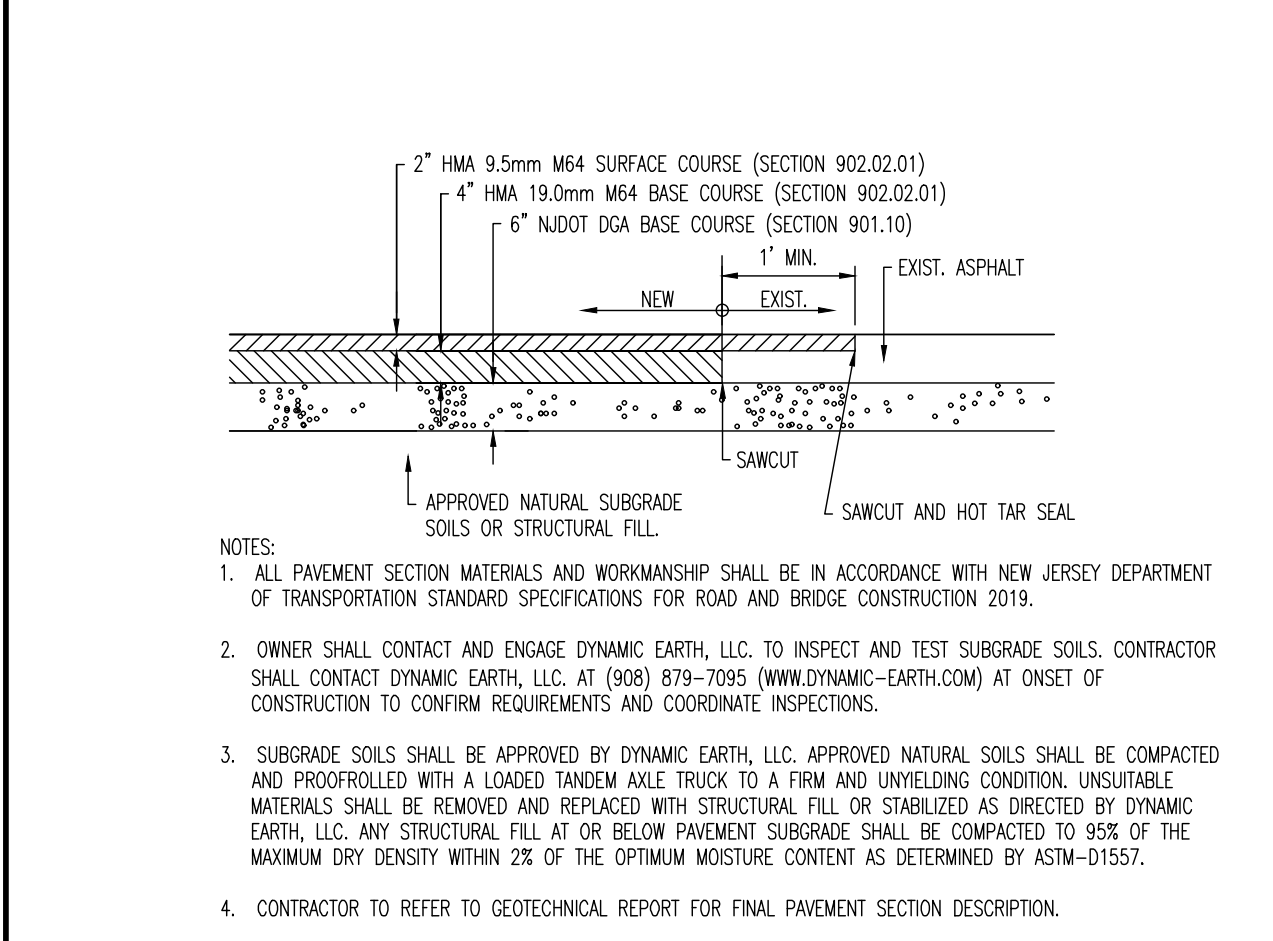
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File: \\dync\pc\local\desoldera\Data\DEPC Projects\1414 Public Storage Inc\24-01325 Barnegat\Draw\Site Plans\1414240144BSII.dwg, ----> 10 LIGHTING PLAN





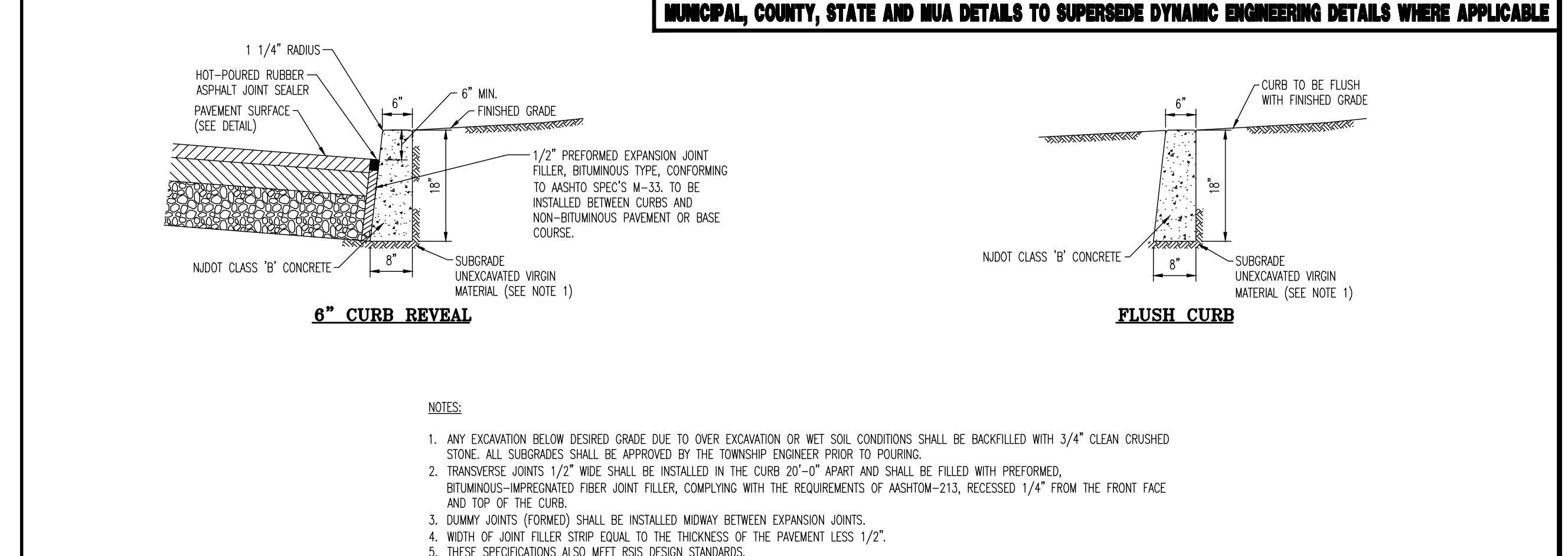
DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL

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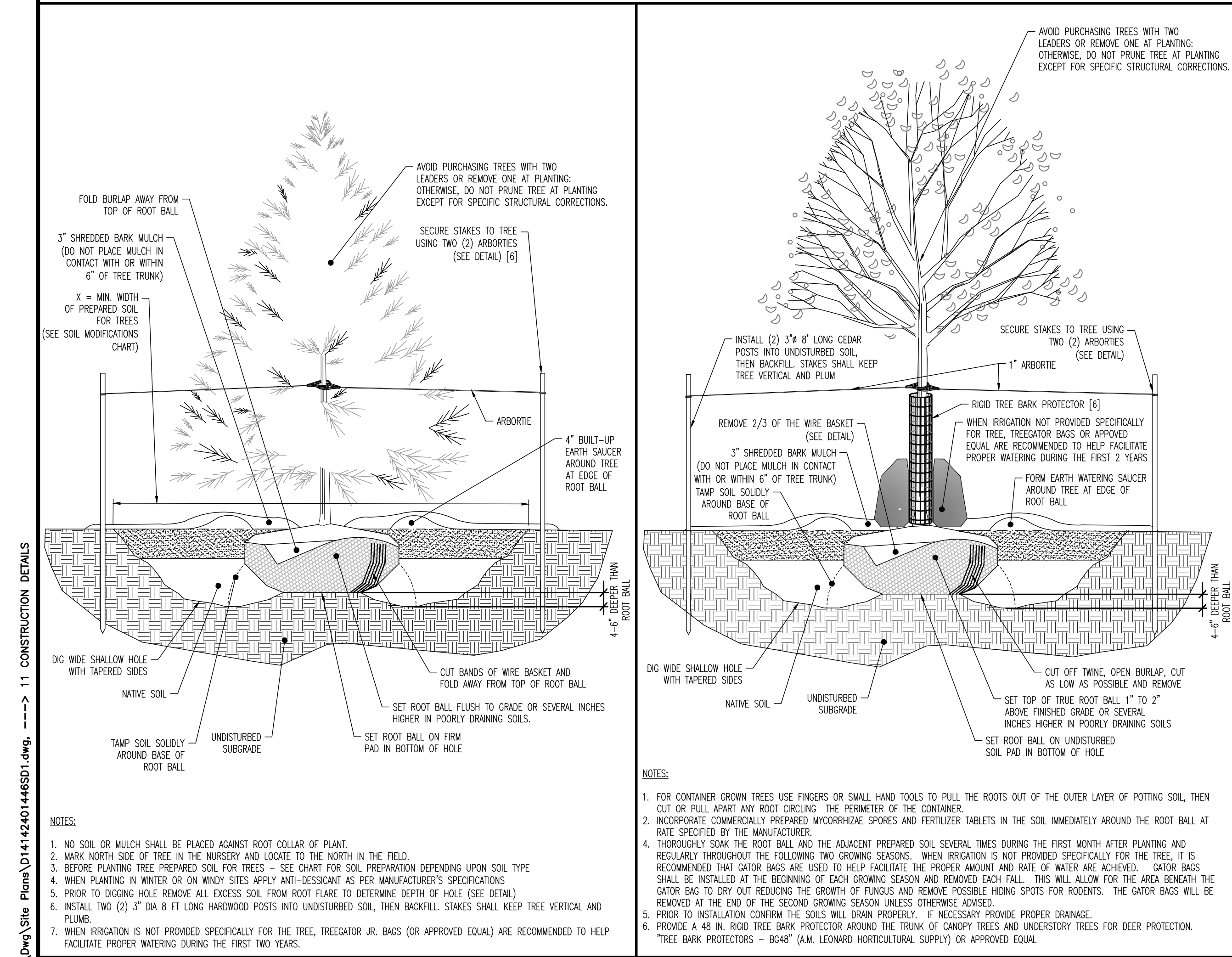
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CONCRETE CURB DETAIL

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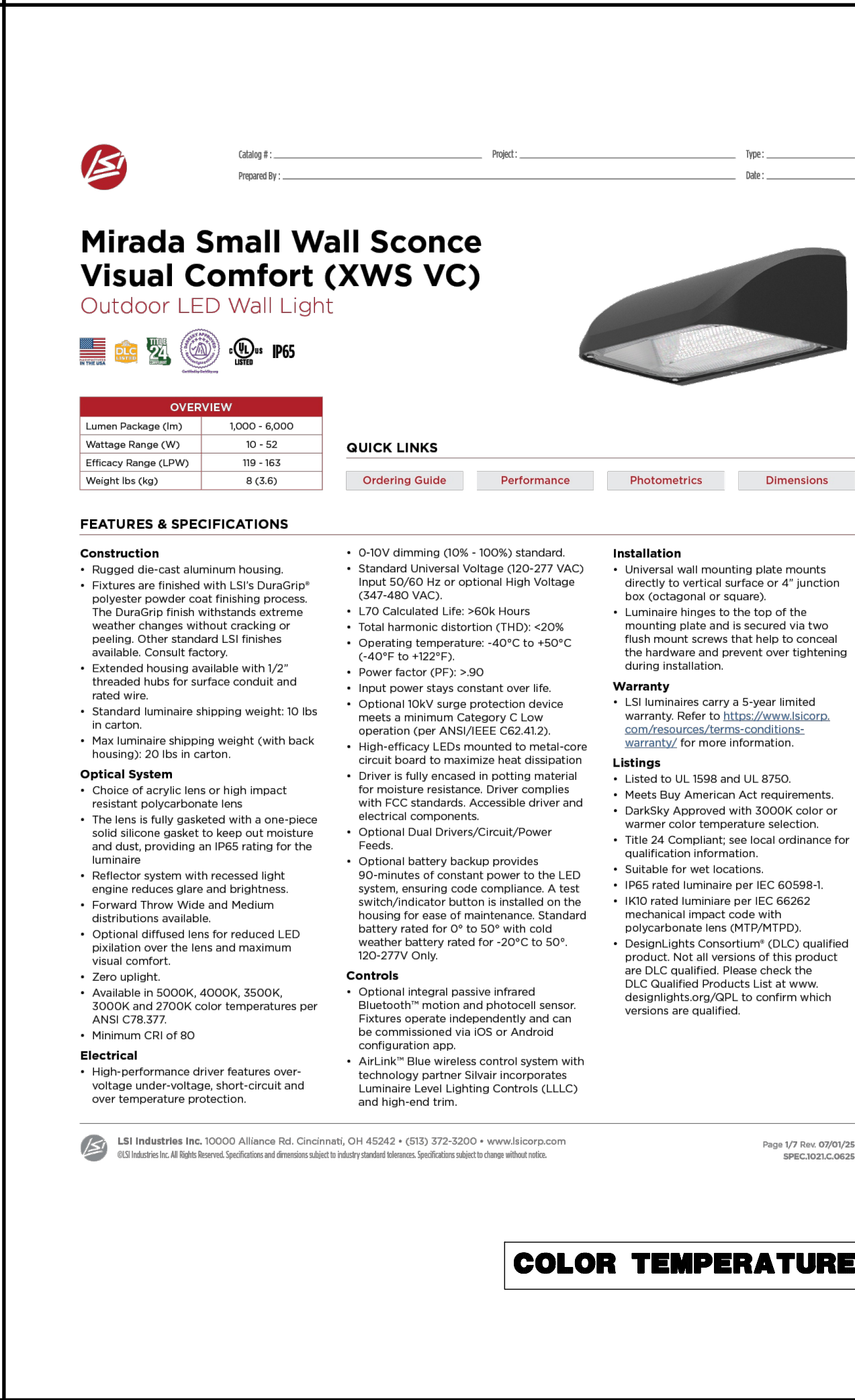


EVERGREEN TREE PLANTING DETAIL

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DECIDUOUS TREE PLANTING DETAIL

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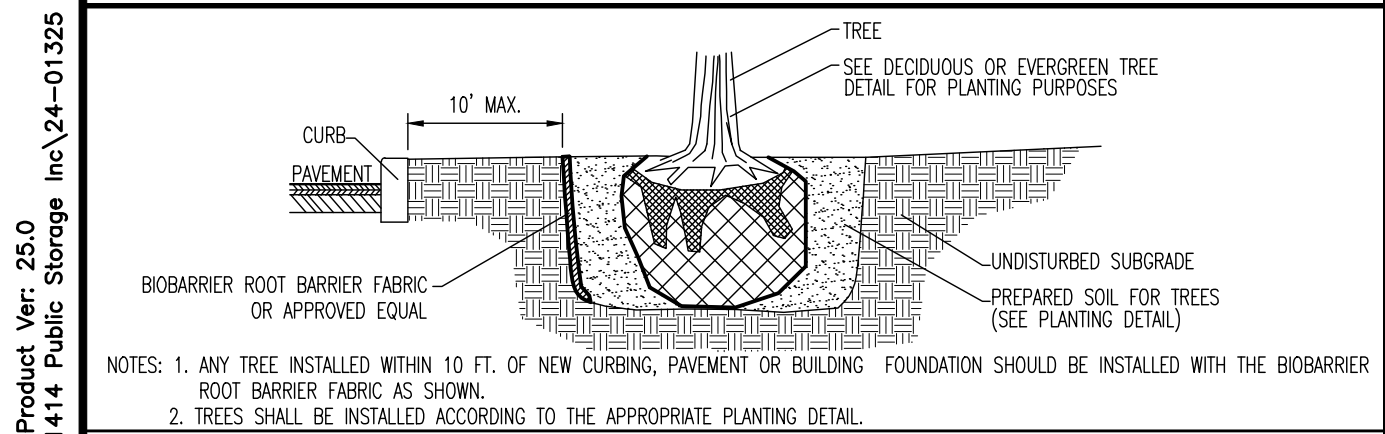


PROPOSED WALL MOUNTED LIGHT DETAIL

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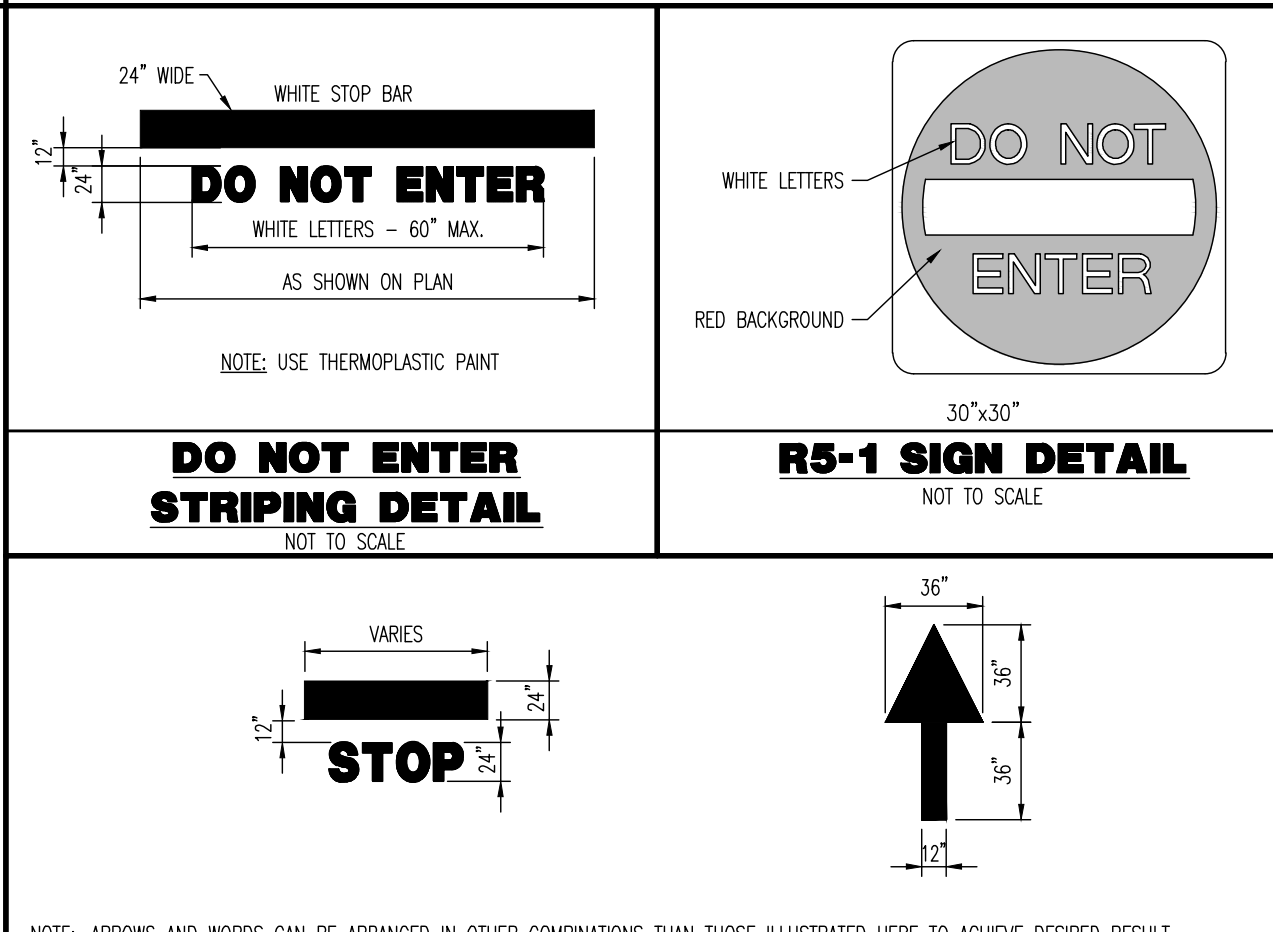
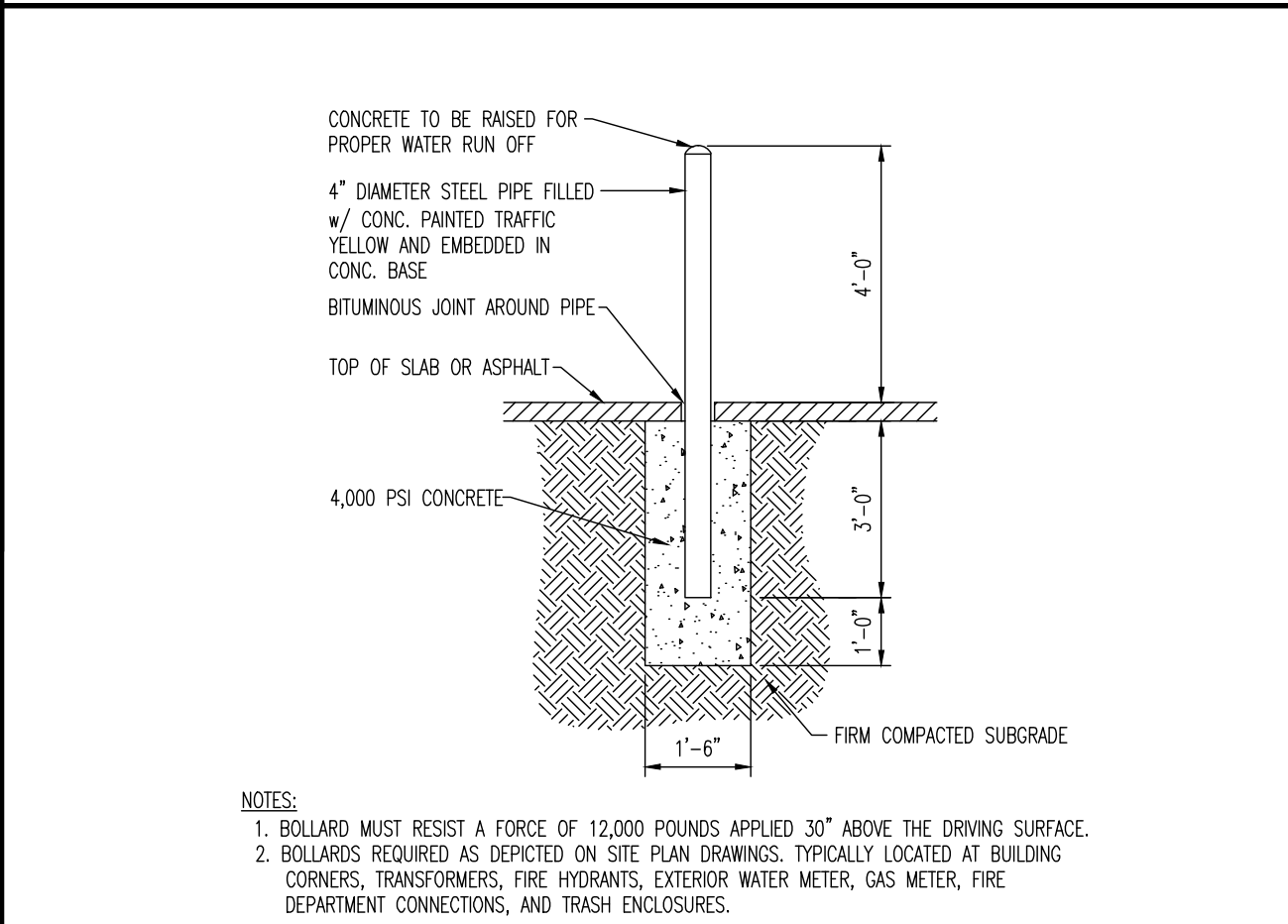
EXISTING WALL MOUNTED LIGHT DETAIL

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BIOBARRIER ROOT BARRIER DETAIL

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Rev.	Date	Comments	By
1	11/03/25	REV. PER SCD & TMP COMMENTS	CAM

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Lake Como, NJ 07719
T: 732.974.0198
F: 732.974.3521
www.dynamicsec.com

PROJECT: **SIMPLY STORAGE BARNEGAT, LLC**
PROPOSED SELF-STORAGE EXPANSION
BLOCK 263, LOT 1.01
220 SOUTH MAIN STREET
BARNEGAT TOWNSHIP, OCEAN COUNTY, NEW JERSEY

JOB No: 1414-24-01325
DATE: 06/11/2025
DRAWN BY: RPK
DESIGNED BY: KED
CHECKED BY: RPF
CHECKED BY: -

SCALE: (H) NOT TO SCALE
SHEET No: 11
OF 11

PROTECT YOURSELF
ALL STATES REQUIRE REGISTRATION OF CONTRACTORS. PROVIDE US ANY OTHER PERMITS TO OBTAIN THE SERVICES. SPACE AVAILABLE. SEE PLAN SHEET.

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

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