PRELIMINARY AND FINAL SITE PLAN

FOR

MORRIS MOUNT OLIVE ASSOCIATES, LLC PROPOSED WAREHOUSE FACILITY

BLOCK 400, LOTS 1 & 2; TAX MAP SHEET #4.01 - LATEST REV. DATED 09-09-91 217 & 219 WATERLOO VALLEY ROAD

TOWNSHIP OF MOUNT OLIVE

MORRIS COUNTY, NEW JERSEY

200' PROPERTY OWNERS LIST

PROPERTY OWNER	<u>BLOCK</u>	<u>LOT</u>
GIVAUDAN FRAGRANCES CORP 1199 EDISON DR CINCINNATI, OH 45216	400	3
COUNTY OF MORRIS P.O BOX 900 MORRISTOWN, NJ 07960	400	4
COUNTY OF MORRIS ADMIN/REC BLDG, COURT ST MORRISTOWN, NJ 07960	401	1
GIVAUDAN FRAGRANCES CORP 1199 EDISON DR CINCINNATI, OH 45216	402	2
GIVAUDAN ROURE CORP ATTN, TAX DE 1199 EDISON DR CINCINNATI, OH 45216	PT 402	5
CICF II — NJ1B01 LLC PO BOX 32052 CHARLOTTE, NC 28232	500	2
CICF II - NJ1B01 LLC 1 BEACON ST, STE 2800 BOSTON, MA 02108	500	3
ALSO TO BE NOTIFIED:		
BRUCE D. SMITH HACKETTSTOWN MUNICIPAL UTILITIES A P.O. BOX 450 HACKETTSTOWN, NJ 07840	UTHORITY	
R ALBANESE		

1415 WYCKOFF ROAD
WALL, NJ 07719

BRUCE REYNOLDS
COLUMBIA GAS TRANSMISSION CORP
1470 POORHOUSE ROAD
DOWNINGTOWN, PA 19335

DOWNINGTOWN, PA 19335

MT OLIVE TOWNSHIP, WATER & SEWER DEPARTMENT P.O. BOX 450
204 FLANDERS-DRAKESTOWN ROAD MT OLIVE, NJ 07828

NJ DEPARIMENT OF TRANSPORTATION
1035 PARKWAY DR CN 600
TRENTON, NJ 08625

PUBLIC SERVICE ELECTRIC & GAS COMPANY
MANAGER — CORPORATE PROPERTIES
80 PARK PLAZA, T6B

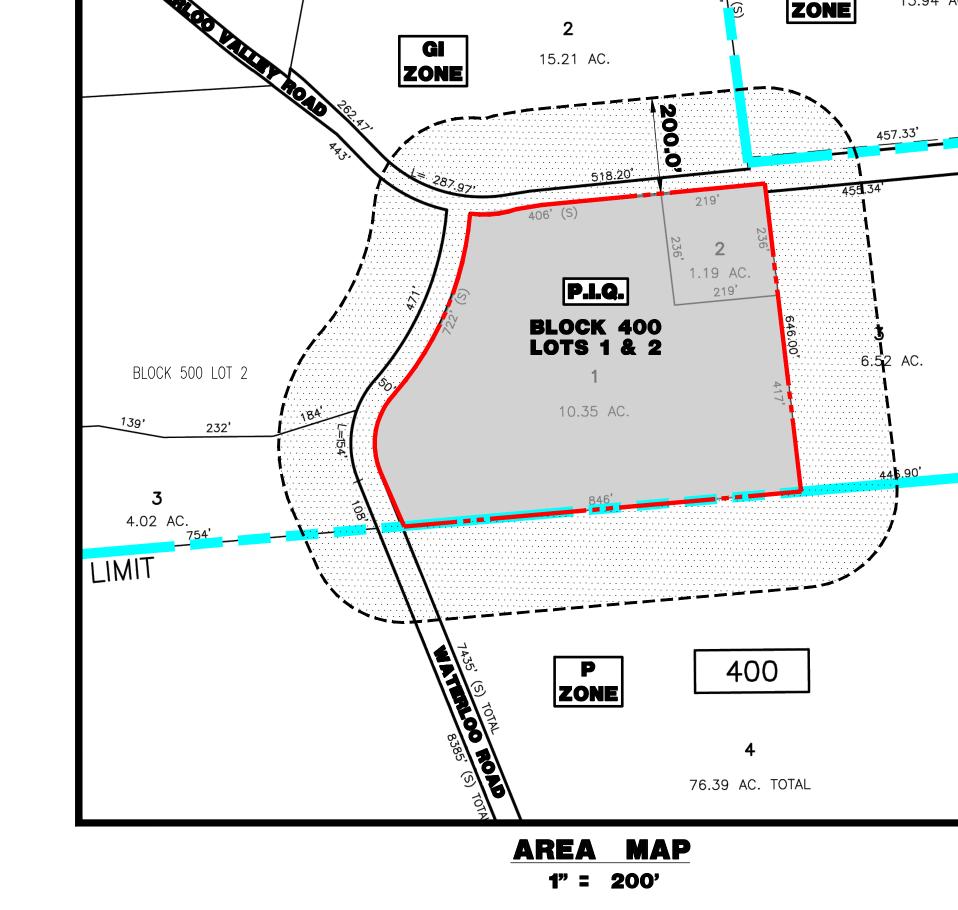
NEW JERSEY – AMERICAN WATER CO, INC P.O. BOX 5627 CHERRY HILL, NEW JERSEY 08034 APPLIED WASTEWATER MANAGEMENT

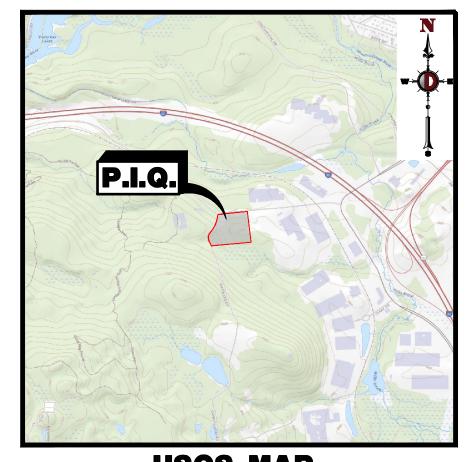
LIST OF VARIANCES & WAIVERS

• \$ 550-36B - STORMWATER MANAGEMENT WITHIN THE 25 FOOT BUFFER IN THE FRONT YARD. (V)

2 CLERICO LANE HILLSBOROUGH, NJ 08844

- § 550-39.2.A DEVELOPMENT WITHIN CRITICAL SLOPE AREAS. (W)
 § 550-39.2.B DEVELOPMENT WITHIN MODERATE SLOPE AREAS.VARIANCE FROM § 550-56K.7 TO ALLOW PARKING STALLS IN THE FRONT YARD SET BACK. (W)
- § 550-82A.2 RETAINING WALLS GREATER THAN SIX (6) FEET IN HEIGHT. (V)
 § 550-82A.3 RETAINING WALLS GREATER THAN SIX (6) FEET IN HEIGHT TO BE TERRACED IN FIFTEEN (15) FOOT INCREMENTS AND HORIZONTALLY DISTANCED
- FOUR (4) FEET APART. (V)

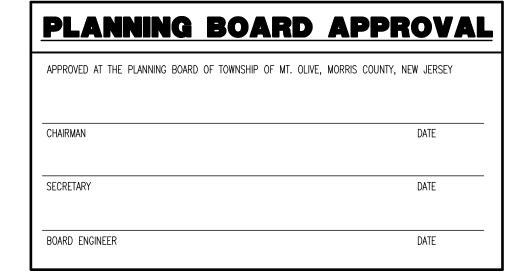




USGS MAP 1" = 2000'

DRAWING INDI	EX
COVER SHEET	1 of 21
AERIAL MAP	2 of 21
GENERAL NOTES	3 of 21
DEMOLITION & TREE MANAGEMENT PLAN	4 of 21
OVERALL SITE PLAN	5 of 21
SITE PLAN	6 of 21
GRADING PLAN	7 of 21
STEEP SLOPE ANALYSIS	8 of 21
DRAINAGE PLAN	9 of 21
UTILITY PLAN	10 of 21
LIGHTING PLAN	11 of 21
LANDSCAPE PLAN	12 of 21
SOIL EROSION & SEDIMENT CONTROL PLAN	13 of 21
SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS	14 of 21
CONSTRUCTION DETAILS	15 - 19 of 21
VEHICLE CIRCULATION PLAN (FIRE TRUCK)	20 of 21
VEHICLE CIRCULATION PLAN (WB-67)	21 of 21
BOUNDARY & TOPOGRAPHIC SURVEY	1 of 1

\$ 550-103F.6 - A BUILDING WITHIN THE FRONT YARD SETBACK. (V) \$ 550-103F.6 - A BUILDING WITHIN THE SIDE YARD SETBACK. (V)



PREPARED BY

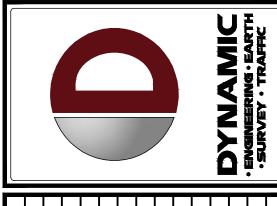
DYNAMIC ENGINEERING CONSULTANTS, P.C.

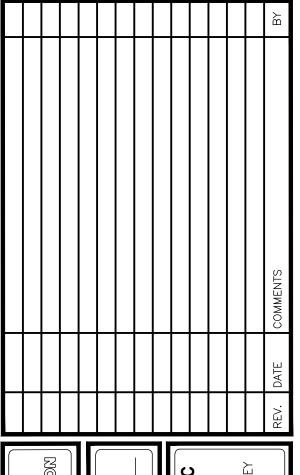
245 MAIN STREET - SUITE 110

CHESTER, NJ 07930

WWW.DYNAMICEC.COM

BLOCI





ONLY AND MAY NOT BE USED FOR GONSTRUCTI			NOL			月0点	GONSI	rruc	
DRAWN BY:		DESIGNED BY:	:D BY:		CHECKED BY:	JY:	CHECKI	CHECKED BY:	
EJK			W			SLS	 	1	
									П
PROJECT: MORRIS MOUNT OLIVE ASSOCIATES, LL	S N	RRIS	MOL	K	OLIVE	ASS	OCIAT	ES,	ן בו
	P. R.	OPOSE L	O WAR	EHOO	PROPOSED WAREHOUSE FACILITY				
	BLO)CK 4C	, LO.	TS	8		BLOCK 400, LOTS 1 & 2		
	21,	8 2.	19 WA	TERL(OO VALL	EY RO,	40		
	^ 0L	NSHIP	OF MO		JLIVE, M(ORRIS (COUNTY, I	NEW U	E E E





Delray Beach, Florida • T: 561,921,8570

www.dynamicec.com

STEPHEN L. SCHWART

JOSHUA W. WIRRY

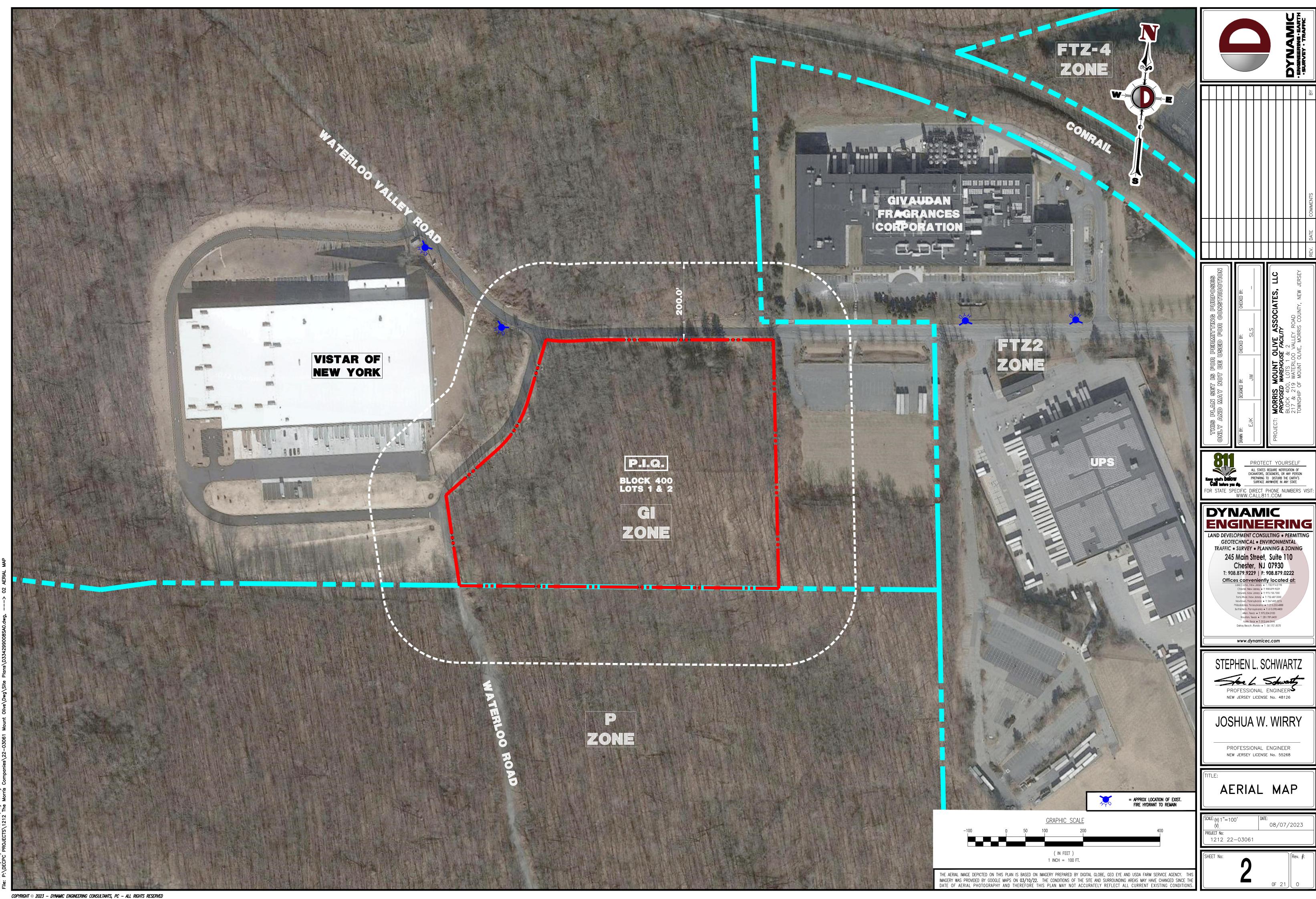
NEW JERSEY LICENSE No. 48126

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 55268

COVER SHEET

No: Rev. #:

OF 21



- . 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.
- 3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
- 4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
- 5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
- 6. 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
- B. 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. IO. 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.
- 12. 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
- 13. 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.
- 14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.

1. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.

- 15. 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, DEBRI 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.
- 16. 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.
- 7. 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
- 18. 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.

WRITING.

- . 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
- . 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.
- 4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS

GENERAL SITE NOTES:

THIS PLAN HAS BEEN PREPARED BASED ON REFERENCES INCLUDING

DATED: 01/06/2022

BOUNDARY AND TOPOGRAPHIC SURVEY DYNAMIC SURVEY, LLC 1904 MAIN STREET LAKE COMO, NJ 07719 SURVEYOR FILE NO: 3342-99-008S

MORRIS MOUNT OLIVE ASSOCIATES, LLC 350 VETERANS BOULEVARD OWNER/APPLICANT:

PARCEL DATA:

MORRIS COUNTY, NEW JERSEY ZONE: ZONE GI (GENERAL INDUSTRIAL ZONE)

. EXISTING USE: VACANT LAND (PERMITTED USE) [\$550-103.F] PROPOSED USE: WAREHOUSE (PERMITTED USE) [\$550-103.F]

SCHEDULE OF ZONING REQUIREMENTS [\$550-103F.6]:

ZONE REQUIREMENT	GI ZONE	EXISTING*	PROPOSED*	POST-DEDICATION
MIN. LOT AREA	5 AC	471,629 SF (10.82 Ac)	NO CHANGE	463,831 SF (10.65 Ac)
MIN. LOT WIDTH	250'	620'	NO CHANGE	NO CHANGE
MIN. LOT DEPTH	250'	643'	NO CHANGE	627'
MIN. PRINCIPAL BUILDING SETBACKS:				
- FRONT YARD	100'	135.3'	100.0'	83.9' (V)
- SIDE YARD SETBACK	50'	542.7'	26.0' (V)	NO CHANGE
– REAR YARD SETBACK	50'	N/A	N/A	N/A
MAX. BUILDING HEIGHT	45'	14'	45' / 1 STY	NO CHANGE
MAX. LOT COVERAGE	60%	1.5% (6,947 SF)	22.6% (106,772 SF)	22.9% (106,157 SF)
MAX. FLOOR AREA RATIO	0.4	0.002 (815 SF)	0.14 (64,515 SF)	0.14 (64,515)

N/S: NO STANDARD N/A: NOT APPLICABLE (E): EXISTING NON-CONFORMANCE (M): VARIANCE

*PRIOR TO DEDICATION

PARKING REQUIREMENTS: ACCESS TO LOTS WITH MORE THAN 10 SPACES. FOR LOTS WITH MORE THAN 10 SPACES, THERE SHALL BE A MAXIMUM OF TWO ACCESS DRIVES ANY STREET, WITH THEIR CENTER LINES SPACED AT LEAST 56 FEET APART, WITH NO MORE THAN TWO LANES OF TRAFFIC EACH AND WITH THE CENTER LINES AT LEAST 30 FEET FROM ANY PROPERTY LINE. WHEN THE PROPERTY ALONG A STREET EXCEEDS 500 FEET IN LENGTH, ONE ACCEDING MAY BE PERMITTED FROM EACH 250 FEET OF FRONTAGE. DRIVEWAYS WITH WIDTHS EXCEEDING 24 FEET SHALL BE APPROVED BY THE [\$550-56.A] PLANNING BOARD. GIVING CONSIDERATION TO THE WIDTH. CURBING. TRAFFIC FLOW. RADII OF CURVES AND TRAFFIC LAND DIVIDER. (COMPLIES ACCESS TO LOADING AND PARKING SPACES. INDIVIDUAL SPACES SHALL BE SERVED BY INTERIOR DRIVEWAYS AND BE DESIGNED FOR VEHICLE ACCESS WITHOUT REQUIRING THE MOVING OF ANY OTHER VEHICLE. SPACES SHALL NOT HAVE DIRECT ACCESS FROM PUBLIC STREETS OR MAJOR INTERIOR

DRIVES AND ROADS. (COMPLIES) BUFFFRS. ALL LOADING AREAS AND PARKING LOTS WITH MORE THAN 10 SPACES SHALL BE BUFFERED FROM ADJOINING STREETS, EXISTING [\$550-56.C] RESIDENTIAL USES AND RESIDENTIAL ZONING DISTRICTS IN ACCORDANCE WITH THE BUFFER SECTION OF THIS CHAPTER. (COMPLIES) CURBING, ALL PARKING LOTS WITH MORE THAN 10 SPACES AND ALL LOADING AREAS SHALL HAVE CONCRETE OR BELGIAN BLOCK CURBING AROUND THE PERIMETER OF THE PARKING AND LOADING AREAS IN CONJUNCTION WITH AN OVERALL DRAINAGE PLAN. CURBING SHALL BE EITHER DEPRESSED AT THE DRIVEWAY OR HAVE THE CURBING ROUNDED AT THE CORNERS WITH THE ACCESS DRIVE CONNECTED TO THE STREET IN THE SAME MANNER AS ANOTHER STREET, CURBING BETWEEN VEHICULAR AND PEDESTRIAN WAYS SHALL BE DESIGNED WITH PERIODIC RAMPS FROM THE STREET OR PARKING GRADE TO THE SIDEWALK WHICH SHALL BE NO LESS FREQUENT THAN ONE EVERY 65 FEET AND LOCATED IN ACCORDANCE WITH A

PEDESTRIAN CIRCULATION PLAN. (COMPLIES) EACH OFF-STREET PARKING SPACE SHALL MEASURE NOT LESS THAN 10 FEET BY 18 FEET OR NINE FEET BY 20 FEET. (COMPLIES) FOR USES OTHER THAN RETAIL SALES OR RESIDENTIAL USES, NO PARKING SHALL BE LOCATED WITHIN THE PERMITTED FRONT YARD SETBACK PURSUANT TO THE APPLICABLE ZONE. THIS SECTION SHALL NOT BE CONSTRUCTED TO PROHIBIT PARKING WITHIN THE PERMITTED FRONT YARD [\$550-56.K.7] SETBACK FOR ANY RETAIL OR RESIDENTIAL USES. (V)

[§550-56]

64,515 SF (GFA W/ < 20% OFFICE) X 1 PARKING SPACE / 5,000 SF (GFA) = 13 SPACES REQUIRED 36 SPACES (INCL. 15 BANKED SPACES) PROPOSED (COMPLIES)

LOADING REQUIREMENTS THERE SHALL BE A MINIMUM OF ONE SPACE PER USE. WHERE MORE THAN ONE USE IS LOCATED IN A BUILDING OR WHERE MULTIPLE L DESIGNED AS PART OF A SHOPPING CENTER, INDUSTRIAL COMPLEX OR SIMILAR SELF—CONTAINED COMPLEX, THE NUMBER OF LOADING SPACE BE BASED ON THE CUMULATIVE NUMBER OF SQUARE FEET WITHIN THE BUILDING OR COMPLEX, SHALL BE DISPERSED THROUGHOUT THE [§550-56.I.1]

BEST SERVE THE INDIVIDUAL USES AND SHALL BE PART OF SITE PLAN APPROVAL. (COMPLIES) LOADING CALCULATION:

(5,000 SF) * (1 LOADING SPACE/ FIRST 5,000 GFA) = 1 SPACE (35,000 SF) * (1 ADDITIONAL LOADING SPACE UP TO 40.000 GFA = 1 SPACF (24,515 SF) * (1 ADDITIONAL LOADING SPACE EACH ADDITIONAL 30,000 GFA = $\frac{1 \text{ SPACE}}{100 \text{ SPACE}}$ SF TOTAL SPACES REQUIRED: 3 16 PROPOSED SPACES (COMPLIES)

DRIVEWAY REQUIREMENTS: CONCRETE CURB WITH GUTTER OR CONCRETE CURB OR BELGIAN BLOCK CURB SHALL BE INSTALLED ALONG EVERY STREET WITHIN THE DEVELOPMENT AND AT INTERSECTIONS WITH TOWNSHIP ROADS, COUNTY ROADS AND STATE HIGHWAYS. THE STANDARD CURB SECTION TO BE USED SHALL BE NOT MORE THAN 10 FEET IN LENGTH AND SHALL BE SET IN ACCORDANCE WITH APPROVED LINES AND GRADES, AND RADIAL CURBS SHALL BE FORMED IN AN ARC SEGMENT, IN A SMOOTH CURVE. CHORD SEGMENTS ARE PROHIBITED. CONCRETE CURBS SHALL BE SIX INCHES BY 18 INCHES, USING CLASS B CONCRETE HAVING A TWENTY-EIGHT-DAY COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH. AT LOCATIONS SPECIFIED BY THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, A PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INS [§550-40]

APPROVING AUTHORITY, THE CURBING SHALL BE DESIGNED TO PROVIDE A RAMP FOR BICYCLES AND/OR WHEELCHAIRS. (COMPLIES

11. BUFFER REQUIREMENTS: [\$550-56.C] ALL LOADING AREAS AND PARKING LOTS WITH MORE THAN 10 SPACES SHALL BE BUFFERED FROM ADJOINING STREETS, EXISTING RESIDENTIAL USES AND RESIDENTIAL ZONING DISTRICTS IN ACCORDANCE WITH THE BUFFER SECTION OF THIS CHAPTER. (V)

A MINIMUM OF 1/2 THE LENGTH OF A REQUIRED BUFFER SHALL BE AT LEAST 25 FEET WIDE, DESIGNED, PLANTED, GRADED, LANDSCAPED AND DEVELOPED TO OBSCURE THE ACTIVITIES OF THE SITE FROM VIEW. NOT MORE THAN 1/2 OF THE REQUIRED BUFFER SHALL CONSIST OF AT LEAST TWO OF THE FOLLOWING: LANDSCAPED FENCING OR WALLS AT LEAST 10 FEET WIDE: LANDSCAPED BERM AT LEAST SIX FEET HIGH: A BUILDING SETBACK OF AT LEAST 200 FEET WITH A GRADE OF LESS THAN 20%, WITH GROUPS OF PLANTINGS AND TREES LOCATED TO ENHANCE THE ARCHITECTURAL FEATURE(S) OF THE STRUCTURE AND OFFER A BREAK TO LARGE OPEN AREAS BUT WITH NO OTHER USE PERMITTED IN THIS YARD AREA; AND A PARKING AREA SET BACK AT LEAST 100 FEET AND SCREENED AS REQUIRED UNDER THE OFF-STREET PARKING PROVISIONS. IF THE PLANNING BOARD DETERMINES THAT ANY OF THESE ALTERNATIVE PROVISIONS WILL NOT BE A SUFFICIENT BUFFER, THE BOARD MAY REQUIRE THE SITE PLAN TO BE MODIFIED TO SHOW MORE OF THE PERIPHERY SERVED BY THE TWENTY-FIVE-FOOT BUFFER AREA OUTLINED ABOVE OR REQUIRE THAT THE PROPOSED ALTERNATIVES BE LANDSCAPED DIFFERENTLY OR BE RELOCATED UNTIL, IN THE BOARD'S JUDGMENT, THEY PROVIDE THE DESIRED BUFFERING EFFECT. (V)

12. TRASH ENCLOSURE REQUIREMENTS: [\$550-56.I.2] THERE SHALL BE A MINIMUM OF ONE TRASH/GARBAGE PICKUP LOCATION LOCATED EITHER WITHIN OR OUTSIDE A BUILDING IN STEEL-LIKE, TOTALLY ENCLOSED CONTAINER(S), LOCATED AND SCREENED TO BE OBSCURED FROM VIEW FROM PARKING AREAS, STREETS AND RESIDENCES. IF LOCATED WITHIN A COMMERCIAL OR INDUSTRIAL BUILDING, THE DOORWAY(S) MAY SERVE BOTH THE LOADING AND TRASH/GARBAGE COLLECTION FUNCTIONS. IF LOCATED OUTSIDE THE BUILDING, IT MAY BE LOCATED ADJACENT TO OR WITHIN THE LOADING AREA(S), PROVIDED THAT THE CONTAINER(S) IN NO WAY

INTERFERE WITH OR RESTRICT THE REQUIRED LOADING FUNCTIONS. (COMPLIES) [§550-82A.(2)] NO FENCE OR WALL SHALL BE ERECTED, ALTERED OR CONSTRUCTED IN ANY NONRESIDENTIAL ZONE WHICH SHALL EXCEED SIX FEET IN HEIGHT

ABOVEGROUND LEVEL. (V) [§550-82A.(3)] NOTWITHSTANDING THE ABOVE PROVISIONS, IF IT IS DEMONSTRATED THAT A RETAINING WALL OF A HEIGHT GREATER THAN SIX FEET IS NECESSARY, SAID RETAINING WALL SHALL BE TERRACED IN FOUR-FOOT INCREMENTS AND THE HORIZONTAL DISTANCE BETWEEN WALLS SHALL BE A MINIMUM DISTANCE OF 10 FEET. (V)

[§550-82A.(4)] PLANTINGS SHALL BE PROVIDED BETWEEN TERRACED WALLS WHICH WILL NOT IMPAIR THE INTEGRITY OF THE WALLS. (COMPLIES) [§550-82A.(5)] ALL RETAINING WALLS IN EXCESS OF SIX FEET SHALL BE PROPERLY DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY AND SHALL INCLUDE PROPER DRAINAGE BEHIND THE WALLS. ALL RETAINING WALLS SHOULD BE INSTALLED BEYOND THE LIMITS OF THE MUNICIPAL RIGHT-OF-WAY. (COMPLIES) 14. CRITICAL AREAS:

DRIVEWAYS AND ROADS, BOTH PUBLIC AND PRIVATE; HOWEVER, ANY DRIVEWAY OR ROAD MUST BE DESIGNED IN COMPLIANCE WITH MAXIMUM GRADE STANDARDS, AS CONTAINED IN THIS CHAPTER. (W) WITHIN MODERATE SLOPE AREAS, NO MORE THAN 50% OF THE RATE OF COVERAGE FOR EACH DEVELOPABLE LOT(S), PURSUANT TO THE APPLICABLE ZONE DISTRICT STANDARDS. MAY BE UTILIZED FOR STRUCTURES AND/OR IMPERVIOUS COVERAGE, FOR EXAMPLE, IN A RESIDENTIAL ZONE DISTRICT WHICH PERMITS A MAXIMUM OF 30% IMPERVIOUS COVERAGE FOR EACH DEVELOPABLE PARCEL, NO MORE THAN 15% OF THAT AREA CLASSIFIED AS MODERATE SLOPE MAY BE DISTURBED OR IMPROVED WITH STRUCTURES OR IMPERVIOUS COVERAGE. EXCLUDED FROM THE LIMITATION ON DISTURBANCE OR IMPERVIOUS COVERAGE ARE UTILITY IMPROVEMENTS, BOTH PUBLIC AND PRIVATELY CONTROLLED, SUCH AS ELECTRIC, TELEPHONE,

[\$550-39.2.A] THERE SHALL BE NO SITE DISTURBANCE, NO STRUCTURES AND NO IMPERVIOUS COVERAGE PERMITTED WITHIN CRITICAL SLOPE AREAS EXCEPT FOR

CABLE LINES, POTABLE WATER, SANITARY AND STORM SEWER LINES. (W) 15. THE APPLICANT REQUESTS ANY AND ALL SUBMISSION WAIVERS THAT ARE NOT SPECIFICALLY IDENTIFIED HEREIN. TESTIMONY WILL BE SUPPLIED AT THE PUBLIC HEARING TO SUPPORT SAID SUBMISSION WAIVERS. 16. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO

CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES. 17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. 18. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER CONSTRUCTION MANAGER OF ANY DISCREPANCY

BETWEEN SOILS REPORT & PLANS. 19. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.

20. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS. 21. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN. 22. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS

23. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. 24. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE. 25. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY

INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME DYNAMIC ENGINEERING CONSULTANTS, P.C., ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH DYNAMIC ENGINEERING CONSULTANTS, P.C. WITH CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS

26. NEITHER THE PROFESSIONAL ACTIVITIES OF DYNAMIC ENGINEERING CONSULTANTS, P.C., NOR THE PRESENCE OF DYNAMIC ENGINEERING CONSULTANTS, P.C. OR ITS EMPLOYEES

AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC ENGINEERING CONSULTANTS. P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE. 27. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS.

PRODUCT DATA SAMPLES AND OTHER DATA WHICH THE CONTRACTOR IS REQUIRED TO SLIBMIT BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DYNAMIC ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT DYNAMIC ENGINEERING CONSULTANTS. P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF DYNAMIC ENGINEERING CONSULTANTS, P.C. IN WRITING BY THE CONTRACTOR. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN

28. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, DYNAMIC ENGINEERING CONSULTANTS, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE.

29. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL

THOSE AGREEMENTS. 30. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

31. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. 32. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS. ORNAMENTAL ELEMENTS. SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED.

33. CONTRACTOR ACKNOWLEDGES HE HAS READ AND UNDERSTOOD THE DESIGN PHASE SOIL PERMEABILITY AND GROUNDWATER TEST RESULTS IN THE STORMWATER MANAGEMENT REPORT AND THAT THE CONTRACTORS RESPONSIBILITIES INCLUDE NECESSARY PROVISIONS TO ACHIEVE THE DESIGN PERMEABILITY IN THE FIELD. 34. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF SITE PLAN DESIGN. AS A RESULT. ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE

BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH NJAC 5:23-7 AND THE HANDICAP PARKING SPACES MUST

OPERATION NOTE:

THE PROPOSED 64.515 SF WAREHOUSE IS PROJECTED TO GENERATE 24 ENTERING TRIPS AND 7 EXITING TRIPS DURING THE WEEKDAY MORNING PEAK HOUR AND 10 ENTERING TRIPS AND 24 EXITING TRIPS DURING THE EVENING PEAK HOUR. MAXIMUM MAXIMUM ANTICIPATED DAILY EMPLOYEE COUNT OF 100 WITH A PROJECTED 12 EMPLOYEES PER 8 HOUR SHIFT. ANTICIPATED HOURS OF OPERATION WILL BE 8AM-5PM MONDAY-FRIDAY.

GRADING NOTES

. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. 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 OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. 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 WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERTYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED 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 1-1/2% MIN. ON ASPHALT. TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY EFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED 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% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.

4. 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). 5. REFER TO SITE PLAN FOR ADDITIONAL NOTES.

6. IN CASE_OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.

CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AISLES. CONTRACTOR TO ENSURE A MAXIMUM OF 5% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

10. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNERS GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA. 11. 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.

ADA NOTES:

ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES AND NJ BARRIER FREE SUBCODE (NJAC 5:23-7) FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:

SIDEWALKS/ ACCESSIBLE ROUTES

- RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION) - CROSS SLOPE: 1:48 (2.08%) MAX., 1.0% MIN. (1.5% MAX. FOR NEW CONSTRUCTION)

- INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)

- CHANGE IN LEVELS: ¼" MAX. HEIGHT OR ½" MAX. HEIGHT WITH BEVELED EDGE BEVELED EDGE SLOPE OF 1:2 (50%) MAX. - GAPS: ½" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL

- SLOPE 1:12 (8.3%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION) - SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE PEDS CROSS RAMP)

- BOTTOM LANDING: 48" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW

- TOP LANDING: 36" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) CROSS SLOPE (1.5% MAX. FOR NEW CONSTRUCTION) AND 1:20 (5%) RUNNING SLOPE (4.5% MAX FOR NEW CONSTRUCTION)

- SPACE AND ACCESS AISLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)

<u>CROSSWALKS</u> - RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)

- CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION) - CHANGE IN LEVELS: 1/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE. BEVELED EDGE SLOPE OF 1:2 (50%) MAX. GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL

SLOPE: 1:12 (8.3%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)

- EXISTING RAMPS; SLOPE: 1:10 (10%) MAX. FOR RISE OF 6"; 1:8 (12.5%) MAX. FOR MAX. RISE OF 3"

MAX. RISE: 30"

MIN. LANDING CLEAR LENGTH: 60"

MIN. CLEAR WIDTH: 36"

- MAX. CROSS SLOPE: 1:48 (2.08%) (1.5% MAX. FOR NEW CONSTRUCTION) 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. 2. ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED W/ ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS

. 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-III. UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR 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 WATERTIGHT AND CONFORM TO ASTM C-443.

4. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SILT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F477. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS.

5. HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATERTIGHTNESS 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

6. 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.

NJDEP INFILTRATION BASIN(S) NOTE

1. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE SOIL OR ROCK TO ELEVATION 824.0 AS NEEDED AND REPLACED WITH SUITABLE SOILS TO ACHIEVE MIN. REQUIRED TESTED PERMEABILITY 1.0 IN/HR. REFER TO GRADING NOTES #9-11 FOR ADDITIONAL INFORMATION REGARDING SOIL TESTING DURING & POST-CONSTRUCTION.

I. 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

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. 4. 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.

5. ALL WATER MAIN SHALL BE CEMENT—LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED

SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.

6. THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH. SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES

SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PVC PIPE B. ALL SEWER PIPE 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 SEWER COAT, OR

9. WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE

10. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES AND APPURTENANCES DURING CONNECTION.

11. 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. 12. ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE

COORDINATED W/ ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS 13. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.

14. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.

15. 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-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR 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 WATERTIGHT AND CONFORM TO ASTM C-443.

16. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIF HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SILT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F477. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS. 17. HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND

ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATERTIGHTNESS 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 18. 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. MOUNT OLIVE TWP LIGHTING REQUIREMENTS [§550-53]:

ALL AREA LIGHTING SHALL PROVIDE FOR LIGHTS FOCUSED DOWNWARD, TRANSLUCENT FIXTURES AND SHIELDING OR SUCH OTHER LIGHT ORIENTATION AND SHIELDING TO PREVENT LIGHT SPILLAGE OFF THE SITE. THE LIGHT INTENSITY PROVIDED AT GROUND LEVEL SHALL BE A MINIMUM OF 0.3 FOOTCANDLE ANYWHERE AND SHALL AVERAGE A MAXIMUM OF 0.5 FOOTCANDLE OVER THE ENTIRE AREA. NO LIGHT SOURCE SHALL EXCEED A HEIGHT OF 18 FEET. FOR EACH FIXTURE AND LIGHTED SIGN, THE TOTAL QUANTITY OF LIGHT RADIATED ABOVE A HORIZONTAL PLANE PASSING THROUGH THE LIGHT SOURCE SHALL NOT EXCEED 7.5% OF THE TOTAL QUANTITY OF LIGHT EMITTED FROM THE LIGHT SOURCE. ANY OUTDOOR LIGHTING SHALL BE SHOWN ON THE SITE PLAN IN SUFFICIENT DETAIL TO ALLOW DETERMINATION OF THE EFFECTS AT THE PROPERTY LINE AND ON NEARBY STREETS, DRIVEWAYS, RESIDENCES AND OVERHEAD SKY GLOW. THE OBJECTIVE OF THESE SPECIFICATIONS IS TO MINIMIZE UNDESIRABLE OFF—SITE EFFECTS. NO LIGHT SHALL SHINE DIRECTLY INTO WINDOWS OR ONTO STREETS AND DRIVEWAYS IN SUCH A MANNER AS TO CREATE A NUISANCE OR INTERFERE WITH OR DISTRACT DRIVER VISION. TO ACHIEVE THESE REQUIREMENTS, THE INTENSITY OF SUCH LIGHT SOURCES, LIGHT SHIELDING AND SIMILAR CHARACTERISTICS SHALL BE SITE PLAN APPROVAL. (COMPLIES)

GENERAL LIGHTING NOTES

. THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINARIES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.

2. ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.

3. CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUIDERAIL POSTS.

4. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.

5. REFER TO ARCHITECTURAL PLANS FOR SITE WIRING DIAGRAM.

6. THIS PLAN IS PREPARED SPECIFICALLY TO ANALYZE THE LIGHTING LEVELS GENERATED BY THE PROPOSED ON-SITE LIGHTING ONLY. EXISTING LIGHT FIXTURES BEYOND THE EXTENTS OF THIS DEVELOPMENT/PROPERTY ARE NOT MODELED IN THIS DESIGN, AND MAY ALTER ACTUAL LIGHT LEVELS AT THE

PLANTING NOTES

PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR T INSTALLATION.

3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.

4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH

GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DIPLOTED THE DECEMBER. 7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (REV. 2001) "AMERICAN STANDARD FO

NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.

ALL PLANTS SHALL BE PLANTED IN AMENDED TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.

PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM TH BOTTOM OF THE BALL ONLY.

PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIA

SHALL BE SPRAYED WITH 'WILT-PRUF' OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.

1. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

2. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUNE SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT.

3. ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY. 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RU PARALLEL, ETC. MAIN LEADER OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED. 14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNI SHALL BE DONE WITH CLEAN. SHARP TOOLS. 15. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES AS A RESULT OF CONSTRUCTION OPERATIONS. ALL EXISTING SHALL BE FERTILIZED WITH A REGULAR GARDEN FERTILIZER (5-10-5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE OFF AT THE TRUNK. CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS ILLED AROUND WITH TOPSOIL. COMPLETELY SATURATE THESE AREAS WITH WATER. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) D CONTRACTOR IS TO PROTECT ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION

16. ALL PLANTING BEDS SHALL BE MULCHED WITH 4" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.
17. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.
18. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST INSTALLED, INSPECTED AND APPROVED BY THE MUNICIPAL LANDSCAPE ARCHITECT. THE MUNICIPAL ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE IN ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER AS REQUIRED BY CONSIDERATION OF SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS.

PLANTS 3/15 TO 12/15 3/15 TO 6/15 9/15 TO 12/1 RIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGIN

ACFR RUBRUM BETULA VARIETIES CARPINUS VARIETIES PYRUS VARIETIES QUERCUS VARIETIE SALIX WEEPING VARIETIES TILIA TOMENTOSA IQUIDAMBAR STYRACIFLUA PLATANUS ACFREGLIA

19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL SEED SOD STABILIZATION METHOD.

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL BY THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON.

PLANTING SPECIFICATIONS

HIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIAL COLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT. A. GENERAL - ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL I

ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.
PLANTS — ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
TOPSOIL — LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, pH RANGE BETWEEN 4.5 — 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO PROPERTY OF THE PR INCHES (2"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS. D. MULCH – FOUR (4") INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH. FERTILIZER AND SOIL CONDITIONER – PLANTED AREAS ORGANIC FERTILIZER - SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS'.

ORGANIC FERTILIZER AND SOIL CONDITIONER — SHALL BE 'GRO— POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5-3-1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS. 4. GENERAL WORK PROCEDURES A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, ANI TOOLS SHALL BE PROPERLY STOCKPILED OR DISPOSED OF ALL PAVED SURFACES SHALL BE SWEPT CLEAN AT THE END OF EACH DAYS WORK.

CONTRACTOR'S EXPENSE A. CONTRACTOR TO PROVIDE A 4" THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAY TO PRODUCE A 4" UNSETTLED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR FURNISH AN ANALYSIS OF ON-SITE TOPSOIL UTILIZED IN ALL PLANTING AREAS. ADJUST PH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTAB

L. BEFÖRE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT TH

SOIL CONDITIONING A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT CONTRACTOR'S EXPENSE. SPREAD EVENLY IN ALL PLANTING AREAS AND TILL (2 DIRECTIONS) INTO TOP 4" WITH THE FOLLOWING PER 1,000 SQ. FT.: 20 POUNDS 'GRO-POWER'
100 POUNDS AGRICULTURAL GYPSUM 20 POUNDS NITROFORM (COURSE) 38-0-0 BLUE CHIP

A. THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS
USE COMPOSTED BARK, RECYCLED YARD WASTE OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5 B. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SANI MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES. C. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX. ÖSİTİÖN TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE EXCAVATII S, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURB

GRADE. EACH PLANT PIT STALL BE BACK FILLED WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:

1 PART PEAT MOSS BY VOLUME
1 PART COW MANURE BY VOLUME
3 PARTS TOPSOIL BY VOLUME
3 PARTS TOPSOIL BY VOLUME 21 GRAM 'AGRIFORM' PLANTING TABLETS AS FOLLOWS:

PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.

LARGER PLANTS (2) TWO TABLETS PER 1/2" DIAM. OF TRUNK CALIPER
PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL PREPARED SOIL AROUND BALL OF PLANT 1/2 WAY, AND INSERT PLANT TABLETS
COMPLETE BACK FILL AND WATER THOROUGHLY. PLANTS SHALL BE SET SO THAT, THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING PREPARE RAISED EARTH BASIN AS WIDE AS PLANTING HOLE OF EACH T

WATER IMMEDIATELY AFTER PLANTING, WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO TI EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT.
9. GROUND COVER A. ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.
B. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
C. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
D. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR

O APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS .1 FOOT OF FINISH GRADE.
B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY.

A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM ACCEPTANCE OF JOB. OWNER TO SECURE A MAINTENANCE BOND FROM HE CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE COMMENCEMENT OF TH CUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE. LEANUP UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DE RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY

OWNER'S AUTHORIZED REPRESENTATIVE.

MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.

MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS. 13. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD.

IRRIGATION NOTE:

CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN & BED AREAS. DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIE AND APPROVAL. CONTRACTOR TO VERIFY STATIC PRESSURE PRIOR TO DESIGN. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICE REQUIRED TO MEET MAXIMUM PRESSURE REQUIREMENT. SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS AND CONTROLLEF ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION DEVICE INSTALLATION AND PERMITTING.



SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VI WWW.CALL811.COM

ALL STATES REQUIRE NOTIFICATION OF

PREPARING TO DISTURB THE EARTH'S

DYNAMIC ENGINEERING

LAND DEVELOPMENT CONSULTING • PERMITTING GEOTECHNICAL • ENVIRONMENTAL TRAFFIC • SURVEY • PLANNING & ZONING 245 Main Street, Suite 110 Chester, NJ 07930 T: 908.879.9229 | F: 908.879.0222 Offices conveniently located at:

Chester, New Jersey • T: 908.879.9229

Toms River, New Jersey • T: 732.687.0000

Philadelphia, Pennsylvania • T: 215.253.4888

Allen, Texas • T: 972.534.2100

www.dynamicec.com

wark, New Jersey • T: 973.755.7200

Houston, Texas • T: 281.789.6400 Austin, Texas • T: 512.646.2646 Delray Beach, Florida • T: 561.921.8570

NEW JERSEY LICENSE No. 48126

PROFESSIONAL ENGINEER

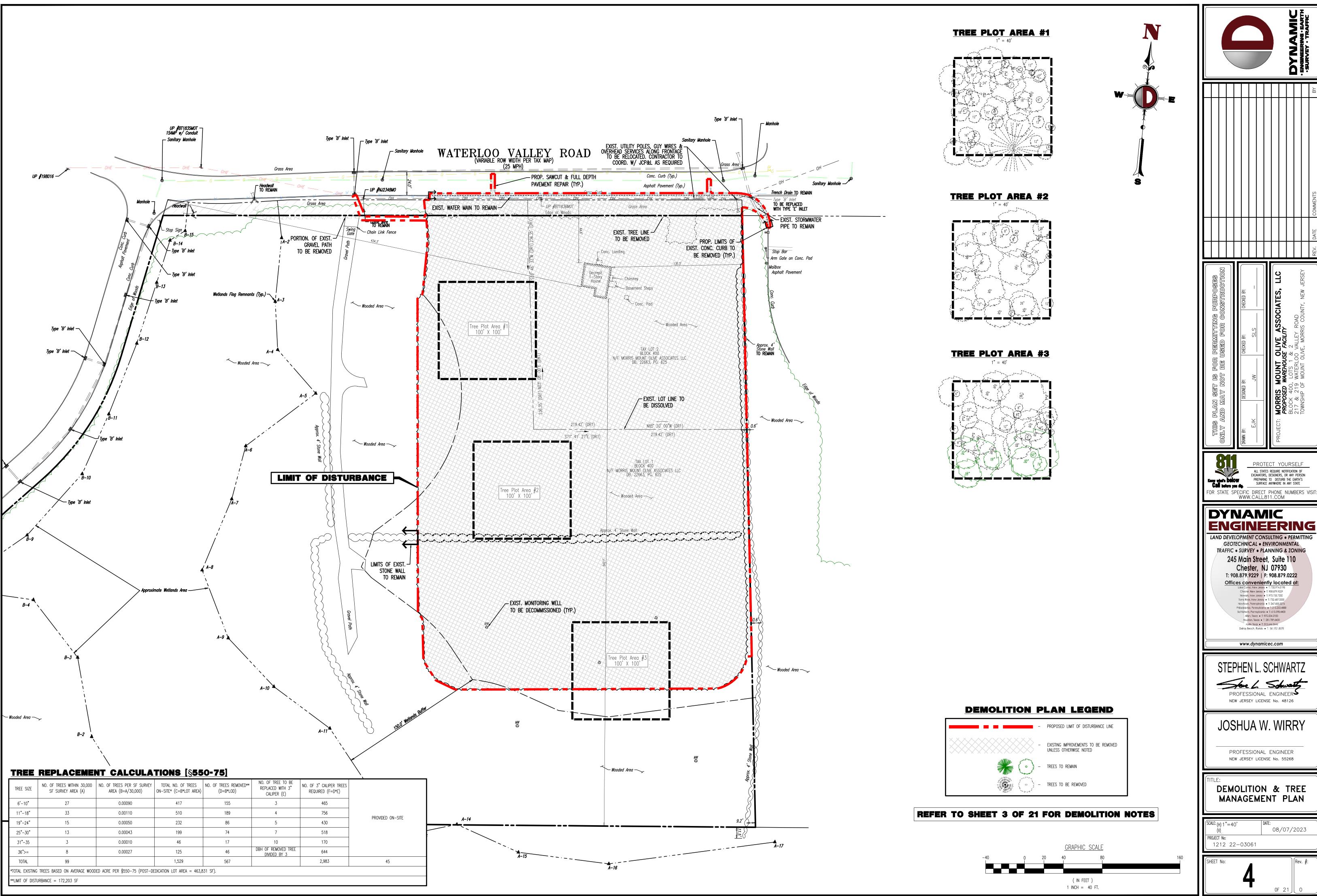
PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 55268

GENERAL NOTES

냐:(H) 1"=XX 08/07/2023 PROJECT No: 1212 22-03061

OF 21



ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

Chester, NJ 07930

Toms River, New Jersey • T: 732.687.0000

Philadelphia, Pennsylvania • T: 215.253.4888 Bethlehem, Pennsylvania • T: 610.598.4400

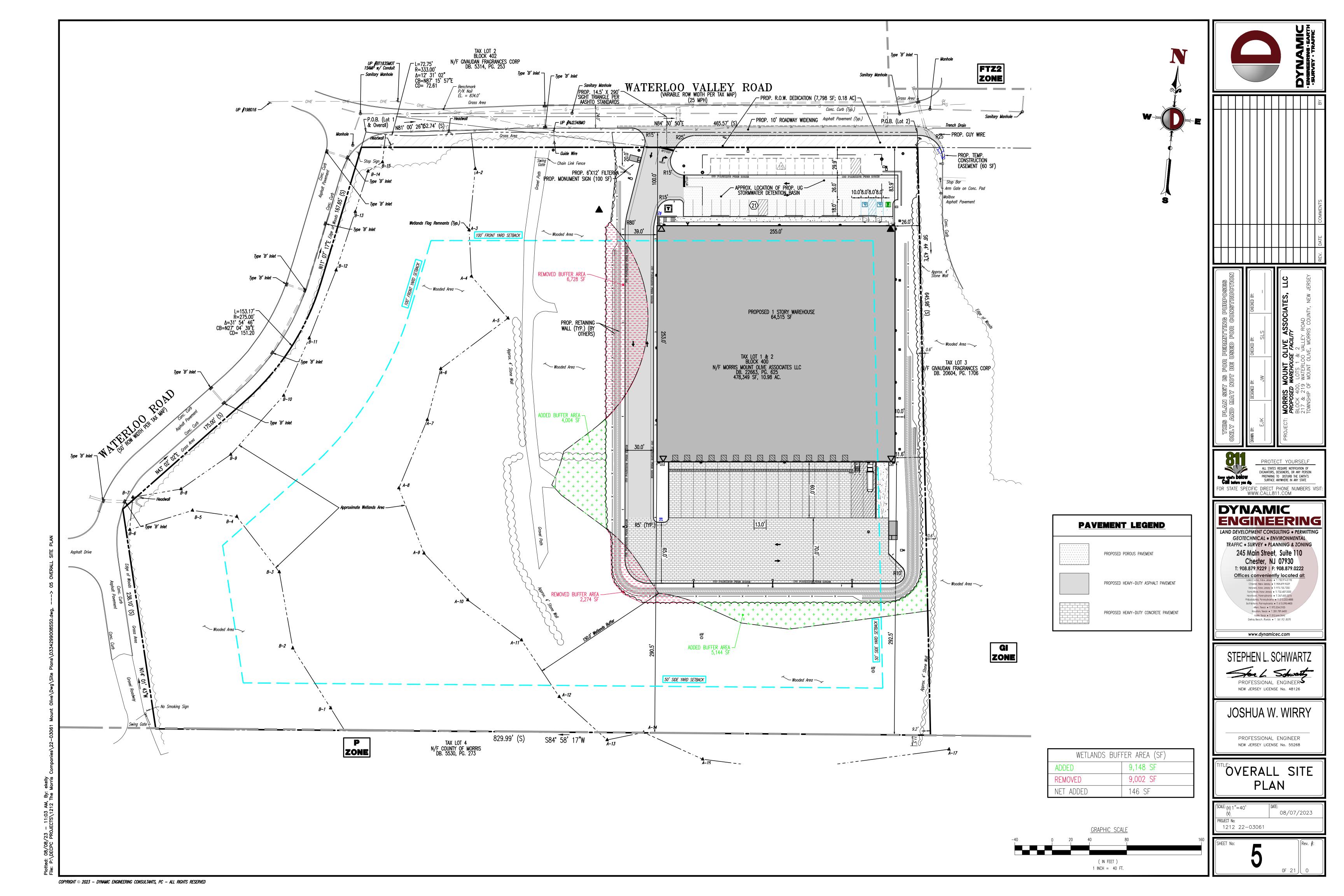
Delray Beach, Florida • T: 561.921.8570

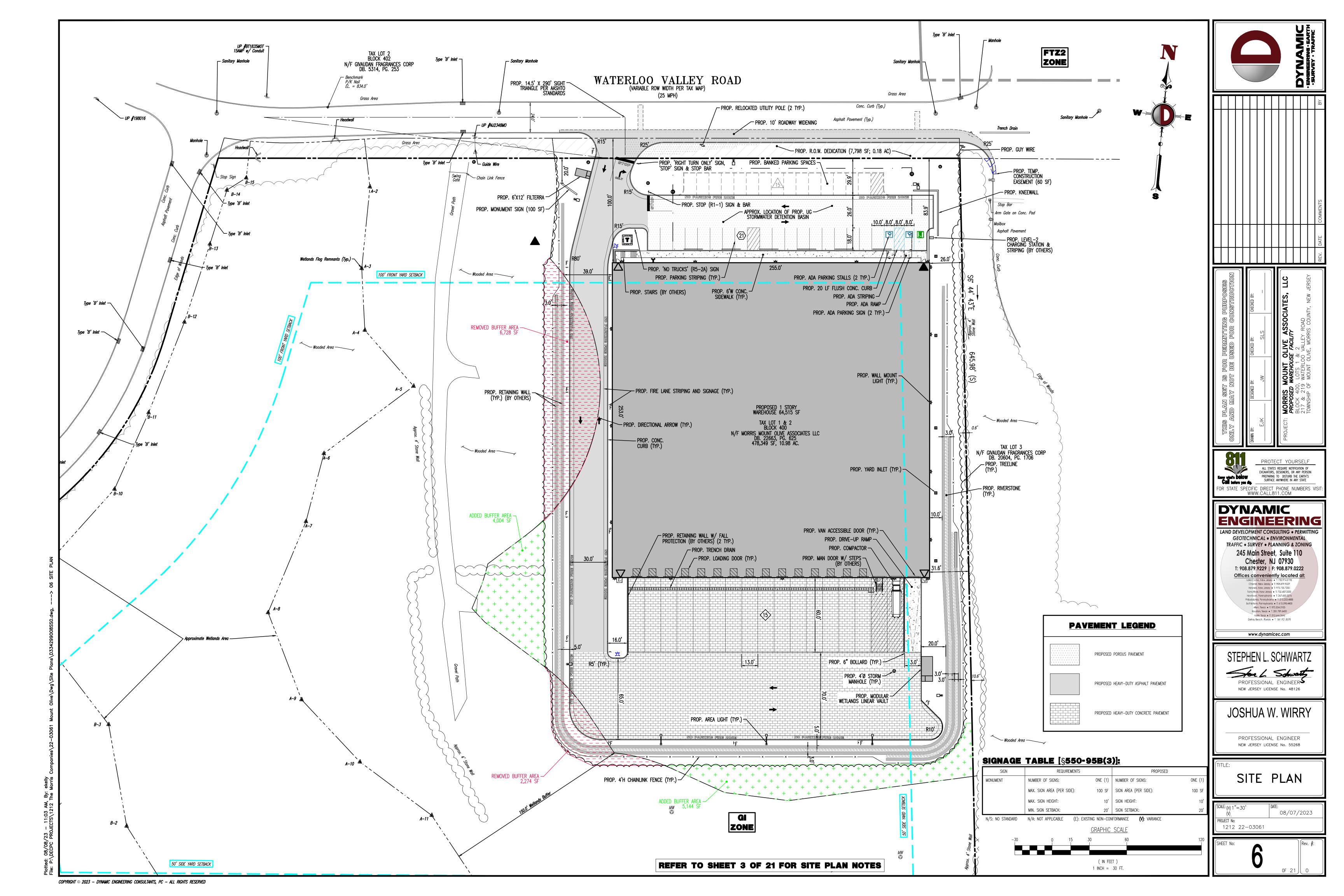
NEW JERSEY LICENSE No. 48126

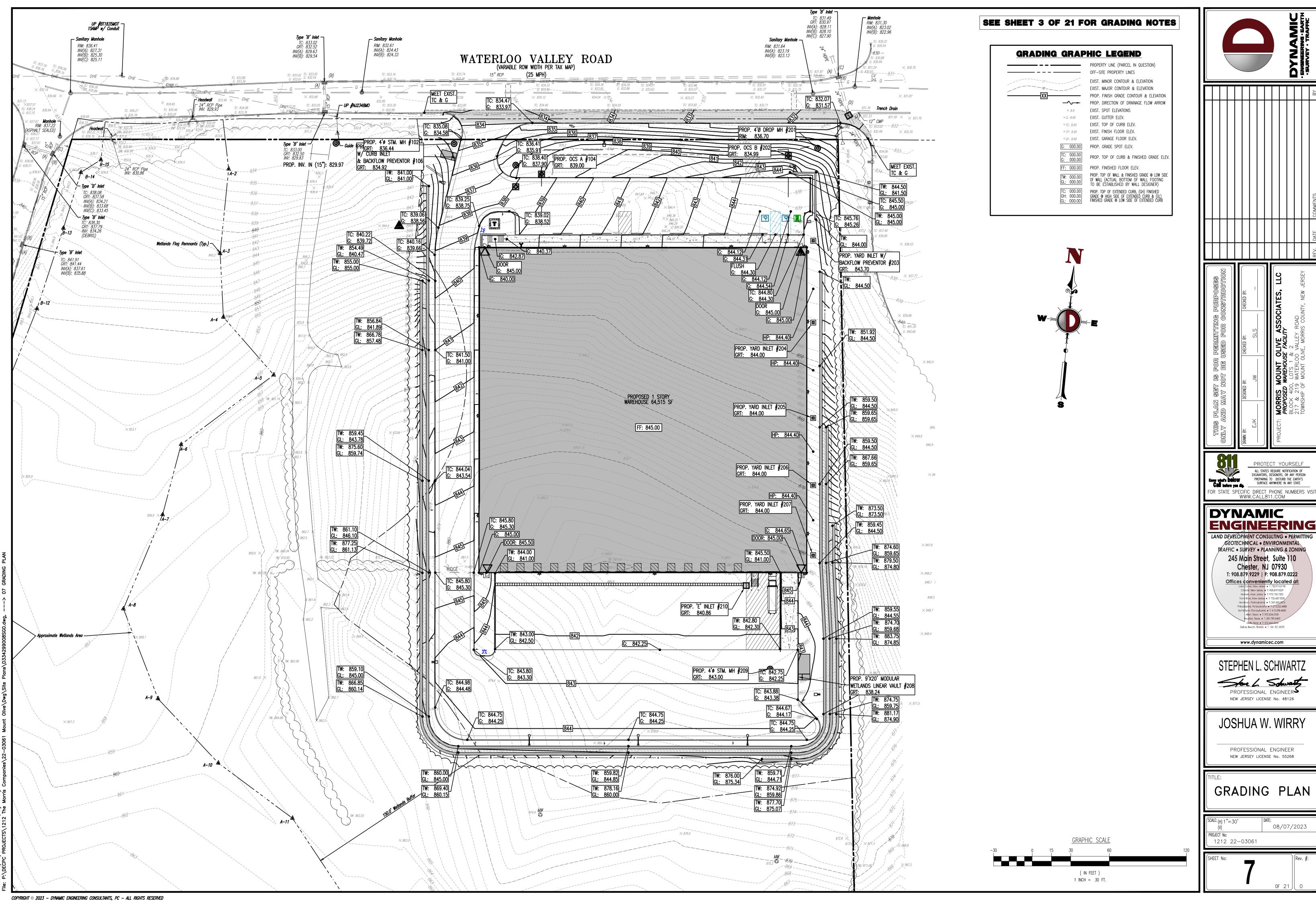
PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 55268

08/07/2023

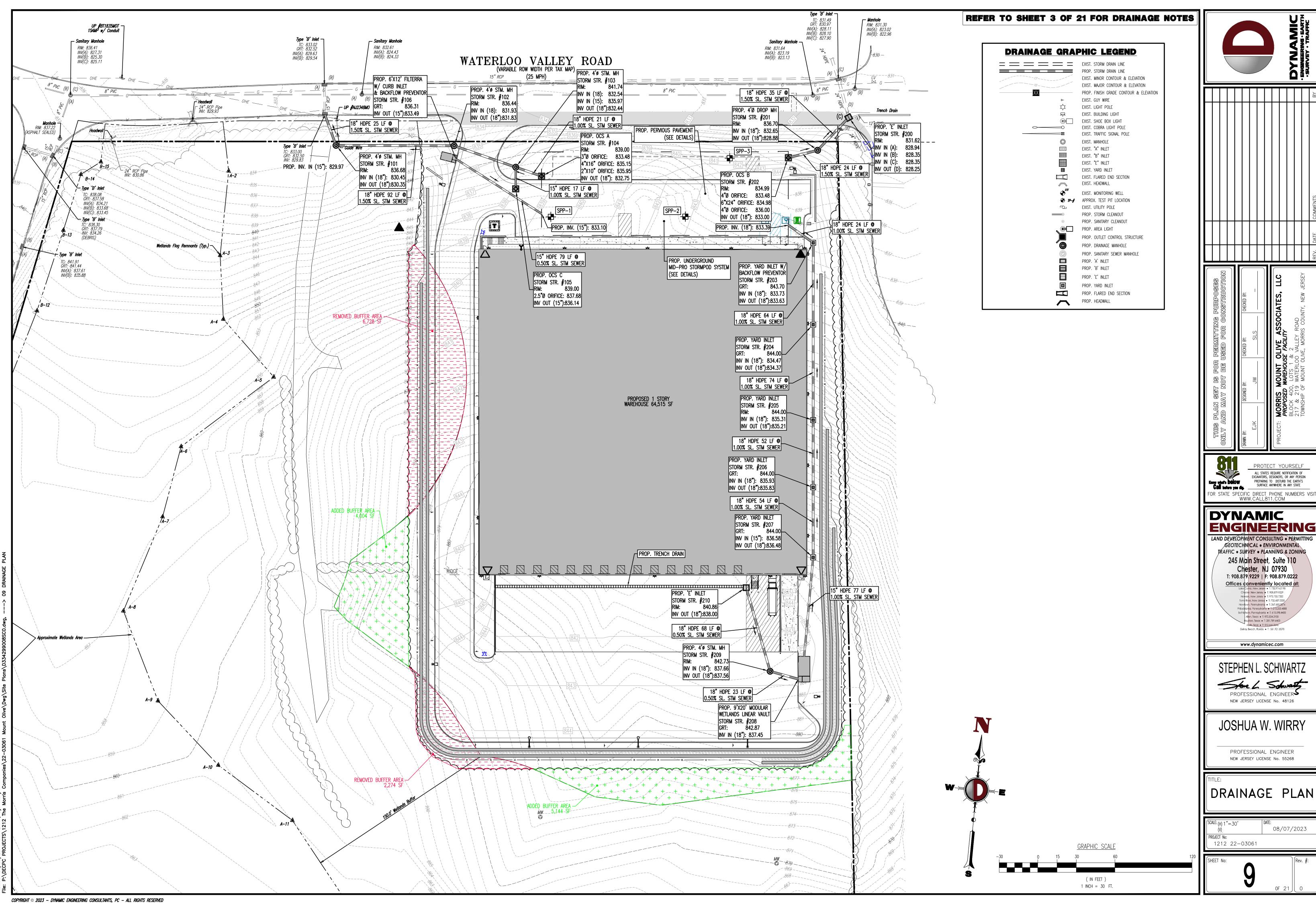
OF 21

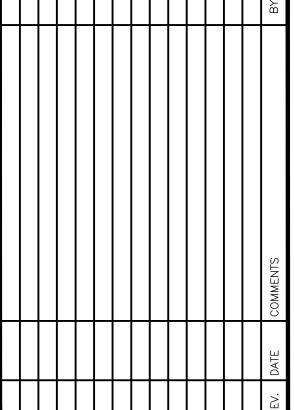


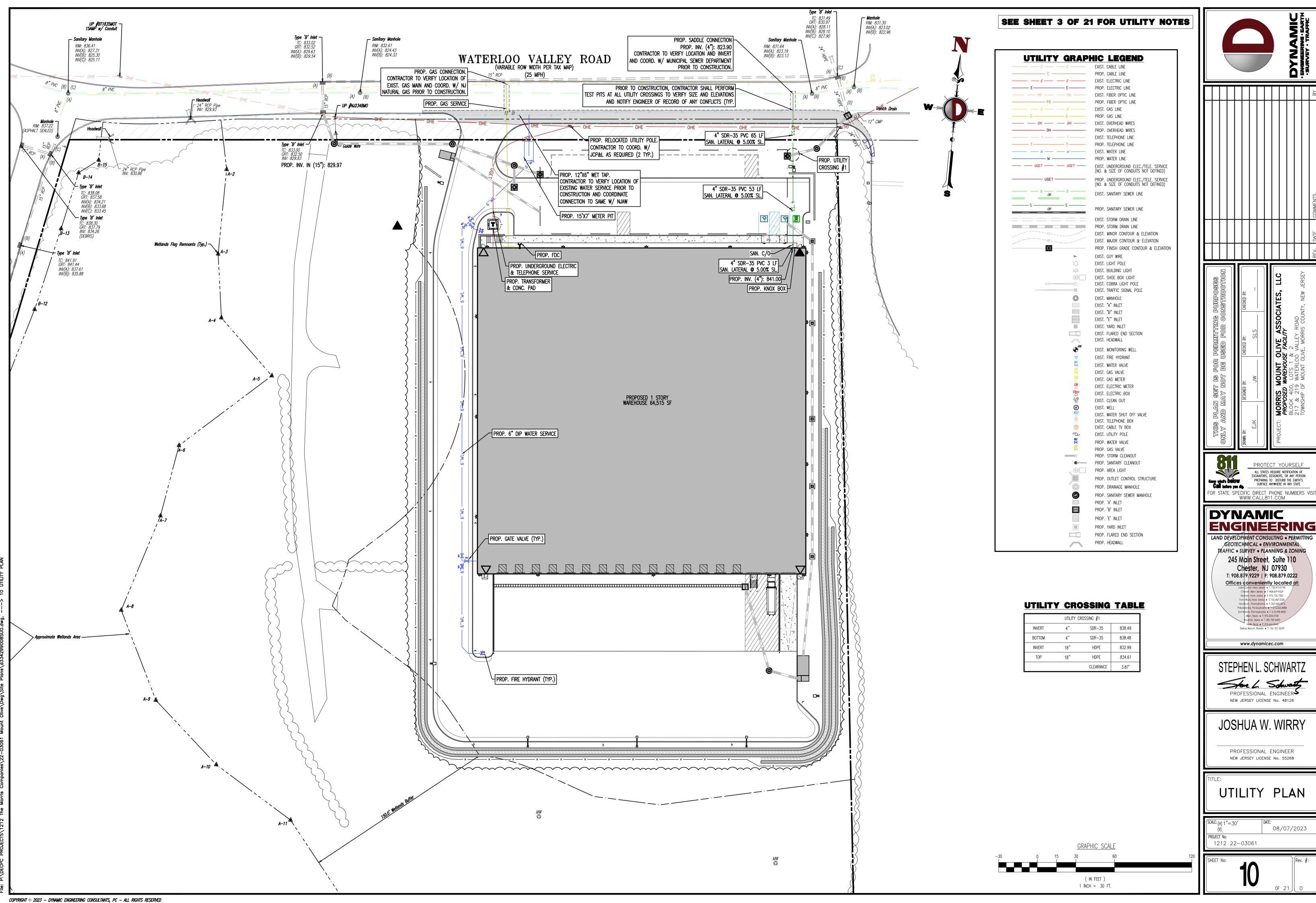


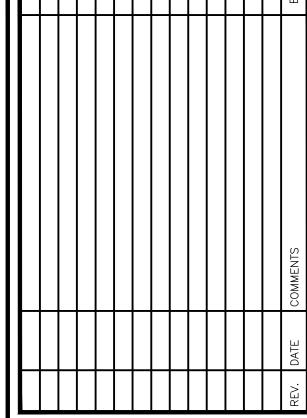


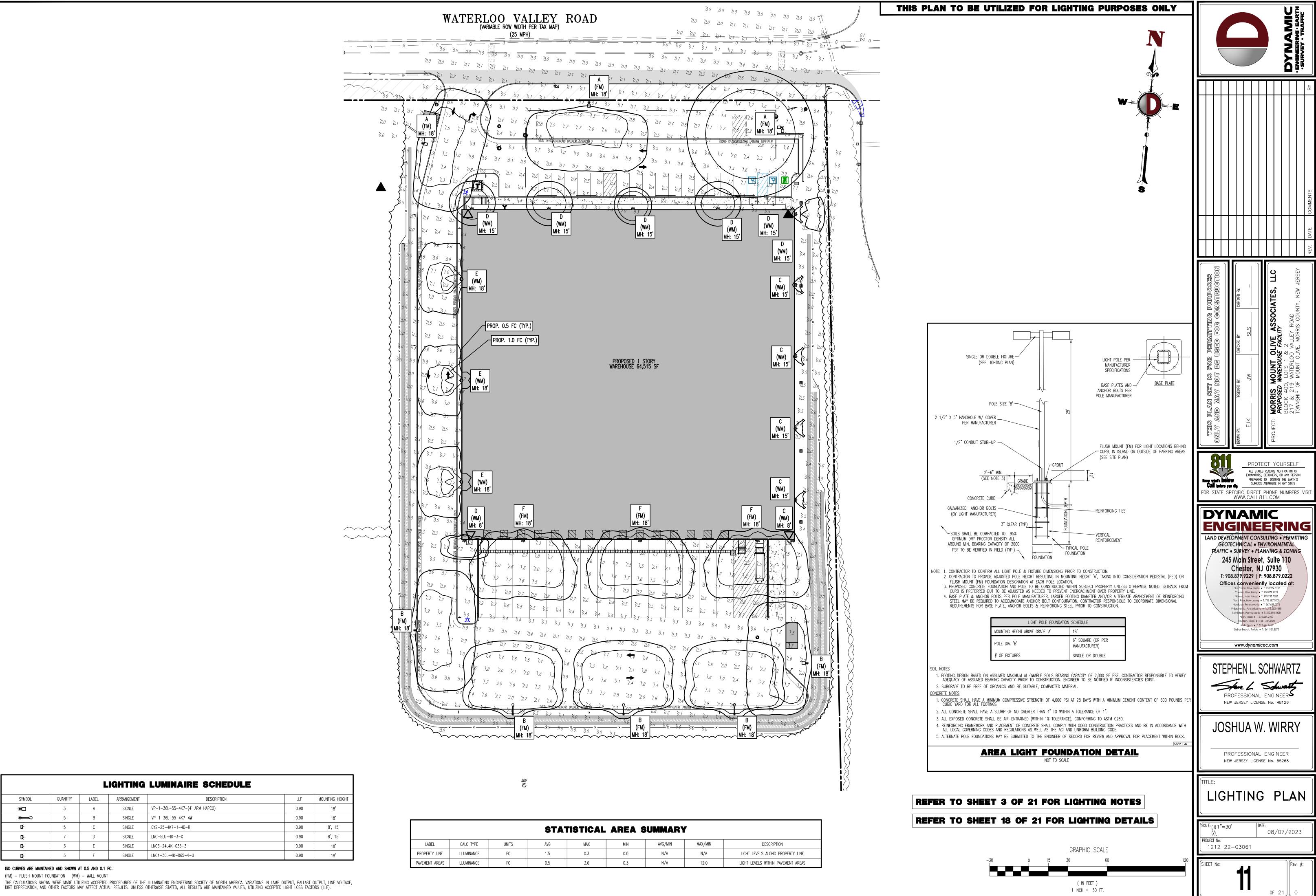


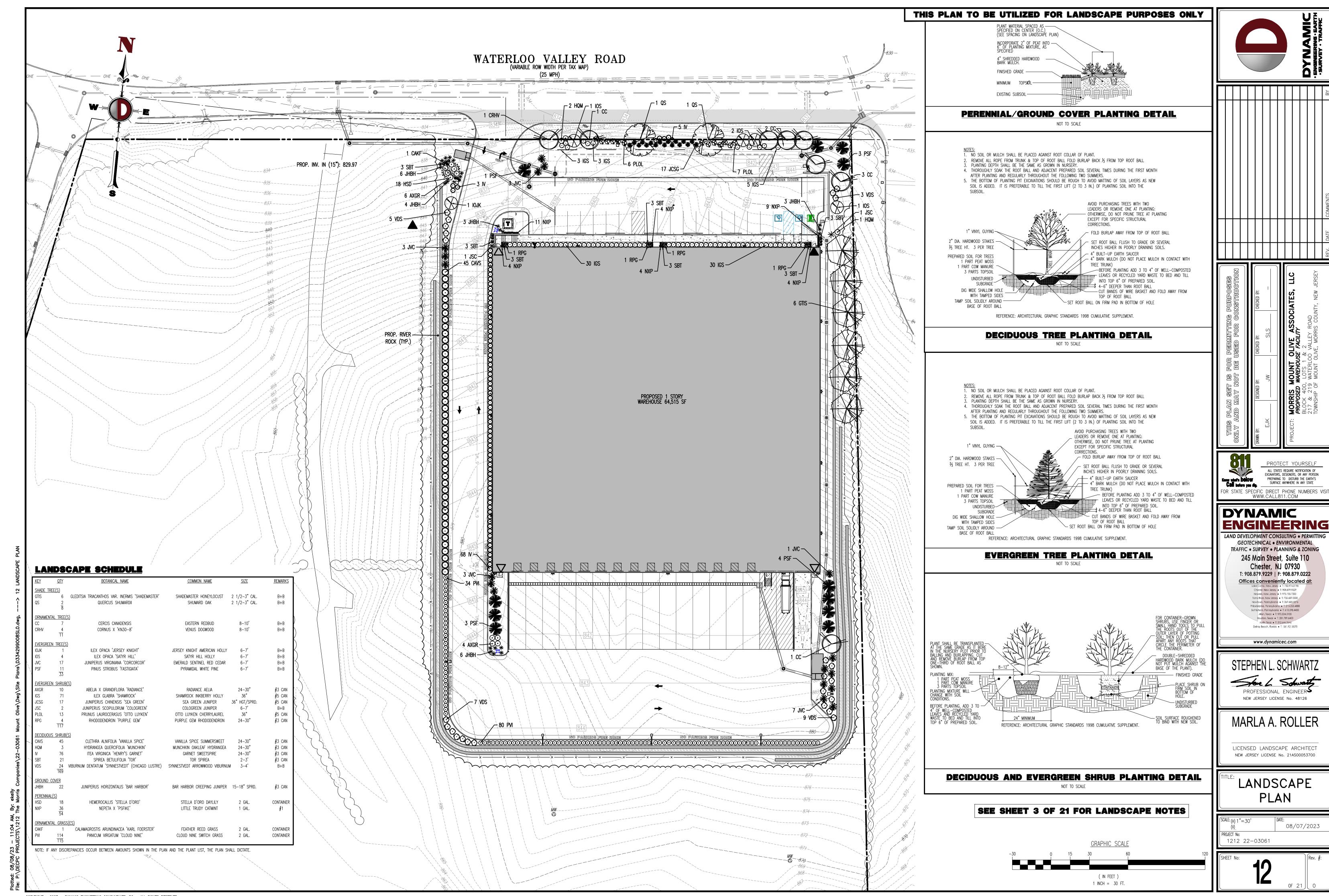


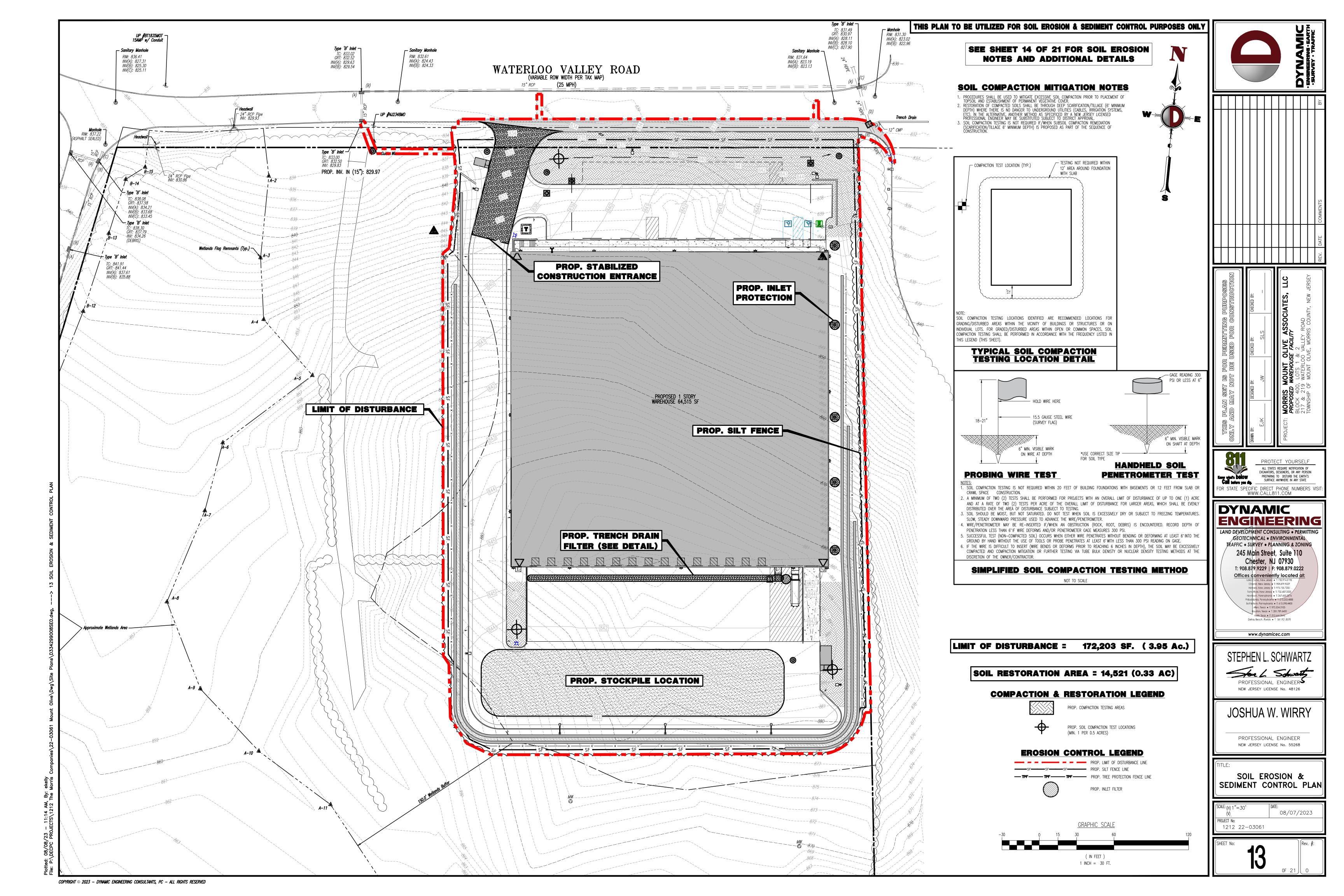












SOIL EROSION AND SEDIMENT CONTROL NOTES

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY

SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY

- STANDARDS. SEE NOTE 22 BELOW. PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREA WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION IS
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, AND WET CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTE 22 BELOW.
- TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL. PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION". SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY. STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILE BASES SHALL HAVE A SILT FENCE PROPERLY ENTRENCHED
- AT THE TOP OF THE SLOPE. IO. A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED, WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND
- CHART FOR DIMENSIONS ALL NEW ROADWAYS WILL BE TREATED WITH SUITABLE SUB-BASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.
- . ALL DEWATERING OPERATIONS MUST BE DISCHARGED DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC OR APPROVED MATERIAL. SEE THE DEWATERING DETAIL
- 5. ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE. 5. DURING AND AFTER CONSTRUCTION THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATION COVER, AND ANY OTHER
- MEASURES DEEMED APPROPRIATE BY THE DISTRICT. SAID RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT. ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN OR THOSE TREES WITHIN THE DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES. SEE THE TREE PROTECTION DETAIL
- 18. THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON—SITE OR OFE—SITE FROSION PROBLEMS DURING CONSTRUCTION. 19. THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE AND A PRE-CONSTRUCTION MEETING HELD.). CONTRACTOR TO SET UP A MEETING WITH THE INSPECTOR FOR PERIODIC INSPECTIONS OF THE TEMPORARY SEDIMENT BASIN PRIOR TO AND DURING ITS CONSTRUCTION.
- A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1.000 SF
- B. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1,000 SF. APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1,000 SF.
- MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1.000 SF
- APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH. PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE
- TEMPORARY STABILIZATION SPECIFICATIONS A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF.
- B. APPLY FERTILIZER (10–20–10) AT A RATE OF 11 LBS. PER 1,000 SF APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1.000 SF.
- MULCH DISTURBED SOIL WITH STRAW OR HAY AT A RATE OF 90 LBS PER 1,000 SF. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
- 23. PERMANENT STABILIZATION SPECIFICATIONS A. APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
- B. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1,000 SF AND WORK FOUR INCHES INTO SOIL.
- APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1,000 SF. APPLY HARD FESCUE SEED AT 2.7 LBS PER 1,000 SF AND CREEPING RED FESCUE SEED AT 0.7 LBS. PER 1,000 SF AND PERENNIAL RYEGRASS SEED AT 0.25 LBS. PER 1,000
- MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1,000 SF. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
- 24. 48 HOURS PRIOR TO ANY SOIL DISTURBANCE, NOTICE IN WRITING SHALL BE GIVEN TO THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND A PRE-CONSTRUCTION MEETING HELD.

STANDARD FOR DUST CONTROL

<u>DEFINITION</u> — THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS. <u>PURPOSE</u> - TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF- SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY. <u>WHERE APPLICABLE</u> - THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER. AND PERMANENT STABILIZATION WITH SOD. SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MOCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
7:1	COARSE SPRAY	1,200
12.5:1	FINE SPRAY	235
4:1	FINE SPRAY	300
	7:1	7:1 COARSE SPRAY 12.5:1 FINE SPRAY

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING - TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE 1. SITE PREPARATION

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING AND MULCHING:

. 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.

B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

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.).

COOL SEASON: PERENNIAL RYE GRASS 100LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER

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.

WARM SEASON:

PLANT BETWEEN MAY 15 AND AUGUST 15. MULCH - UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY AT A RATE OF 2-2.5 TONS PER ACRE 70 TO 90 LBS/1,000 SF TO BE APPLIED ACCORDING TO THE STATE STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, LIQUID MULCH BINDER, OR CRIMPER).

PERMANENT SEEDING:

- 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 STANDARD FOR LAND GRADING. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS 4. MULCHING REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
- D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEEDING METHODS
- A. SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD LINLESS RETESTED SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING.
- ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONC . WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 850 F AND ABOVE. SEE TABLE 4-3 MIXTURES 1 TO 7. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.

 3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 850F. MANY GRASSES BECOME ACTIVE AT 650F. SEE TABLE 4-3, MIXTURES 8–20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES. B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING 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 SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.

 AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

 D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER—MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE
- SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH. FERTILIZER - 500 LBS/ ACRE OR 11 LBS/ 1000 SF OF 10-10-10 OR EQUIVILANT WITH 50% WATER INSOLUABLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
- 265 LBS/ACRE 6.0 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15 TALL FESCUE -20 LBS/ACRE 0.5 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15 KY. BLUEGRASS -PERENNIAL RYEGRASS - 20 LBS/ACRE 0.5 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15
- CREEPING BENTGRASS 45 LBS/ACRE 1.0 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15
- CREEPING RED FESCUE -45 LBS/ACRE 1.0 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15 ALKALI SALTGRASS - 45 LBS/ACRE 1.0 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15

PERMANENT STABILIZATION SPECIFICATIONS A. MULCHING MULCH MATERIALS TO BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY AT THE RATE OF 2.0 TO 2.5 TONS PER ACRE OR 70 TO 90 POUNDS PER 1,000 SQ. T. EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH—BINDER THE RATE OF APPLICATION IS 3 TONS PER ACRE. B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF SOIL SURFACE WILL BE COVERED. C. MULCH ANCHORING TO BE DONE IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:

) MULCH NETTING LIQUID MULCH-BINDERS

) PFG AND TWINF

D. CRIMPER (MULCH ANCHORING COULTER TOOL)

ERMANENT, EROSION RESISTANT GROUND COVER TO BE PROVIDED BETWEEN PANEL ROWS AND UNDER PANEL ROWS AS WELL AS OTHER DISTURBED AREAS. ESTABLISHING VEGETATION UNDER PANELS MAY BE DIFFICULT DUE TO LACK OF SUN AND LIMITED PRECIPITATION. THOUGHT SHOULD BE GIVEN TO ESTABLISHING VEGETATIVE GROUND COVER PRIOR TO PANEL CONSTRUCTION. INSTALLATION MAY E FACILITATED BY PHASING THE GRADING AND STABILIZATION SEQUENCE OF SUBSEQUENT PROJECT AREAS TO ALLOW SUFFICIENT TIME TO ALLOW VEGETATION TO BECOME ESTABLISHED PRIOR TO PANEL INSTALLATION.

STANDARD FOR TEMPORARY VEGETATIVE

COVER FOR SOIL STABILIZATION

- 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
- 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. : 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.).
- A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICE FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM GRASSES AND LEGUMES

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC. SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT, THE FINAL

HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILED IN ACCORDANCE WITH THE ABOVE. . SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1.

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.)SPRING OATS — 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 BARLEY — 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 AUGUST 1 AND NOVEMBER 15, AT A DEPTH OF 1.0 INCHES.

-WARM SEASON GRASSES: (1) PEARL MILLET - 20 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES

- (2) MILLET (GERMAN OR HUNGARIAN) 30 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES. 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, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH
- C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV 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 SÓIL 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 SEEDLING EMERGENCE. THIS IS THE
- 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.

PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

- A. STRAW OR HAY. UNROTTED SMALL GRAIN 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 CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
- APPLICATION. SPREAD 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 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, STEEPNESS OF SLOPES, AND COST. PEG AND TWINE
- MULCH NETTINGS 3. CRIMPER MULCH ANCHORING COULTER 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 MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH EED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS' IN SPRING AND FALL.
- C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.
- APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

45 LBS/ACRE

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 STANDARD FOR LAND GRADING B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING. D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND

SEEDBED PREPARATION

- A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://njaes.rutgers.edu/county/ 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 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED
- ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE—HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING—TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

 C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES

KY. BLUEGRASS -

- 4 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15 HARD FESCUE -175 LBS/ACRE CHEWING FESCUE 175 LBS/ACRE 4 LBS/1000 SQ.FT.: PLANT BETWEEN MARCH 1 AND APRIL 30: BETWEEN AUGUST 15 AND OCTOBER 1 STRONG CREEPING RED FESCUE -4 LBS/1000 SQ FT PLANT RETWEEN MARCH 1 AND APRIL 30 BETWEEN AUGUST 15 AND OCTOBER 15 175 LBS/ACRE PERENNIAL RYEGRASS 45 LBS/ACRE 1 LBS/1000 SQ.FT.: PLANT BETWEEN MARCH 1 AND APRIL 30: BETWEEN AUGUST 15 AND OCTOBER 15
- B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING 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 SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL. C. AFTER SFEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SFED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SFEDLING EMERGENCE, THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED. D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED,

WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH

A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO

1 LBS/1000 SQ.FT.; PLANT BETWEEN MARCH 1 AND APRIL 30; BETWEEN AUGUST 15 AND OCTOBER 15

THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

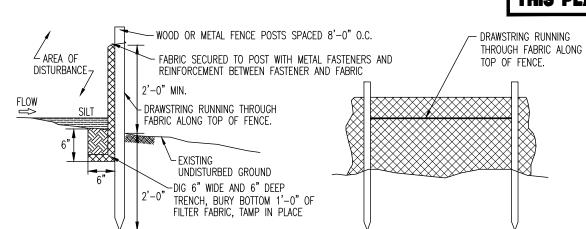
- MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE XISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT
- A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
- APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR 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 SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT 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, STEEPNESS OF SLOPES, AND COST. 1. PEG AND TWINE MULCH NETTINGS
- 3. CRIMPER MULCH ANCHORING COULTER 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 PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER`SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S 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 WEEDSEED 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.

SEQUENCE OF CONSTRUCTION

- PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAY BALES AND SILT FENCING. (1-2 WEEKS)
- PHASE 3: EXCAVATION, CONSTRUCTION, AND STABILIZATION OF DETENTION BASIN(S), EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES. (3 WEEKS) PHASE 4: EXCAVATE FOR BUILDING FOUNDATION. (2-3 WEEKS)
- PHASE 5: COMPLETE BUILDING CONSTRUCTION. (6-8 MONTHS)
- PHASE 6: EXCAVATE AND INSTALL ON-SITE IMPROVEMENTS INCLUDING CURBING, UNDERGROUND PIPING, AND DRAINAGE STRUCTURES. (4-6 WEEKS) PHASE 7: FINAL GRADING ON-SITE. (4 WEEKS)
- PHASE 8: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING. (4 WEEKS) PHASE 9: REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. (1 WEEK)

PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (8-10 MONTHS)

THIS PLAN TO BE UTILIZED FOR SOIL EROSION & SEDIMENT CONTROL PURPOSES ONLY



1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. 2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT . SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES. 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE 5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT 6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM

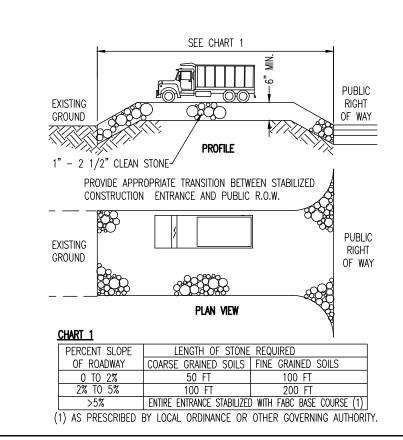
7. Fence posts shall be spaced 8 feet center—to—center or closer. They shall extend at least 2 feet into the ground and EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES. 8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, I PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED. 9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING

OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED

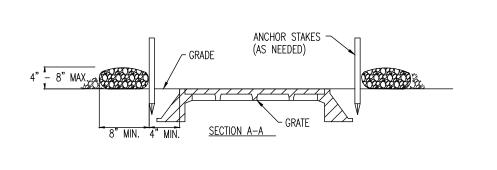
BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL

SILT FENCE DETAIL

INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.



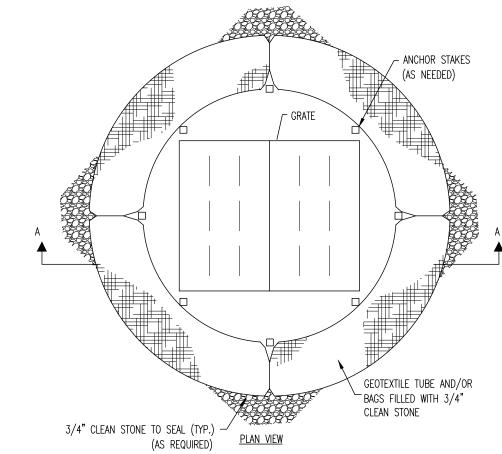
STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE



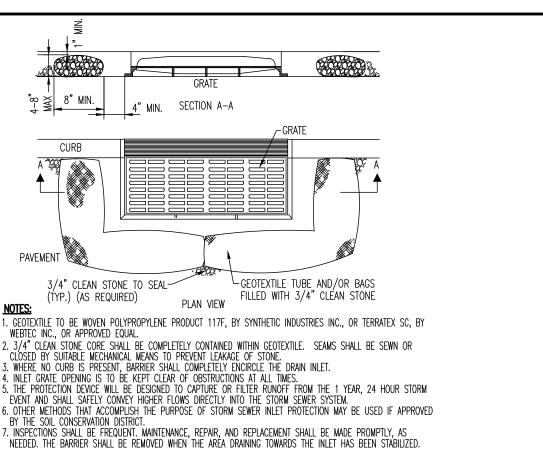
1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WEBTEC INC., OR APPROVED EQUAL. 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.

3. ANCHOR STAKES OF WOOD OR METAL SHALL BE INSTALLED WHERE REQUIRED BY FIELD CONDITIONS TO PREVENT MOVEMENT OF BARRIER.

- 4. BARRIER SHALL COMPLETELY ENCIRCLE THE DRAIN INLET. 5. GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES. 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY
- HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM. WHERE SLOPE REQUIRES, AN EARTHEN BERM SHALL BE INSTALLED TO DIRECT STORM FLOW INTO THE INLET. BUT NOT OVER THE CURB.
- 7. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT 8. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.



TYPE 'E' AND YARD INLET FILTER DETAIL



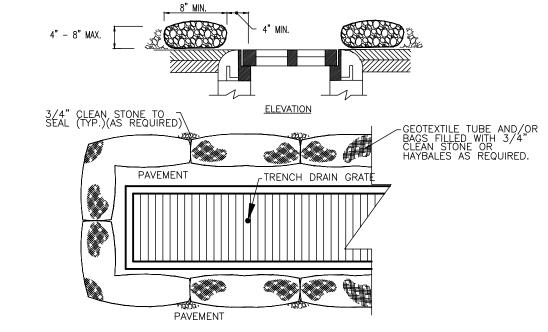
NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED. **INLET FILTER, TYPE 1**

NOT FOR USE WITHIN NJDOT RIGHT-OF-WAY

- CURB OPENING INSFRT 1" RFBAR FOR REMOVAL OF BAG FROM INLET DUMP STRAP (TYP.) PROVIDE FOR FLOOD OVERFLOW DUMP STRAPS INSFRT 1" RFBAR OR REMOVAL OF /4" NYLON ROPE, BAG FROM INLET ′FLAT WASHERS) INLET FILTER -INSTALLATION DETAI BAG DETAIL

INLET FILTER, TYPE 2 ACCEPTABLE FOR USE WITHIN NJDOT RIGHT-OF-WAY

INLET FILTER COMBINED DETAIL NOT TO SCALE

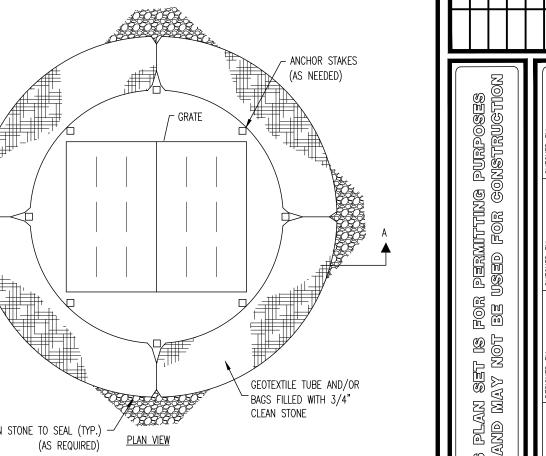


- 1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 117F, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WEBTEC INC., OR APPROVED EQUAL. 2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT 5. BARRIER SHALL BE PLACED ON ALL SIDES THAT DRAIN TO INLET.
- 4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES. 5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM. 6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- '. INSPECTION'S SHÁLL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN TH AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

TRENCH DRAIN FILTER DETAIL

MAINTAIN STOCK PIL ACCORDANCE WITH (MAX SIDE TFMPORARY SLOPE TYP.) STABILIZATION NOTES CONSTRUCT SILT FENCE OR HAYBALES -(AS NEEDED) AROUND PERIMETER OF STOCKPILE (SEE DETAIL ON THIS SHEET)

TEMPORARY STOCKPILE DETAIL



Know what's DOIOW Call before you dip.

ALL STATES REQUIRE NOTIFICATION C EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VI WWW.CALL811.COM

DYNAMIC ENGINEERING

LAND DEVELOPMENT CONSULTING • PERMITTING GEOTECHNICAL • ENVIRONMENTAL TRAFFIC • SURVEY • PLANNING & ZONING 245 Main Street, Suite 110 Chester, NJ 07930 T: 908.879 9229 | F: 908.879.0222 Offices conveniently located at: Chester, New Jersey • T: 908.879.9229 Toms River, New Jersey • T: 732.687.0000 Philadelphia, Pennsylvania • T: 215.253.4888 Allen, Texas • T: 972.534.2100 Abstin_Texas • T: 512.646.2646 Delray Beach, Florida • T: 561.921.8570

www.dynamicec.com

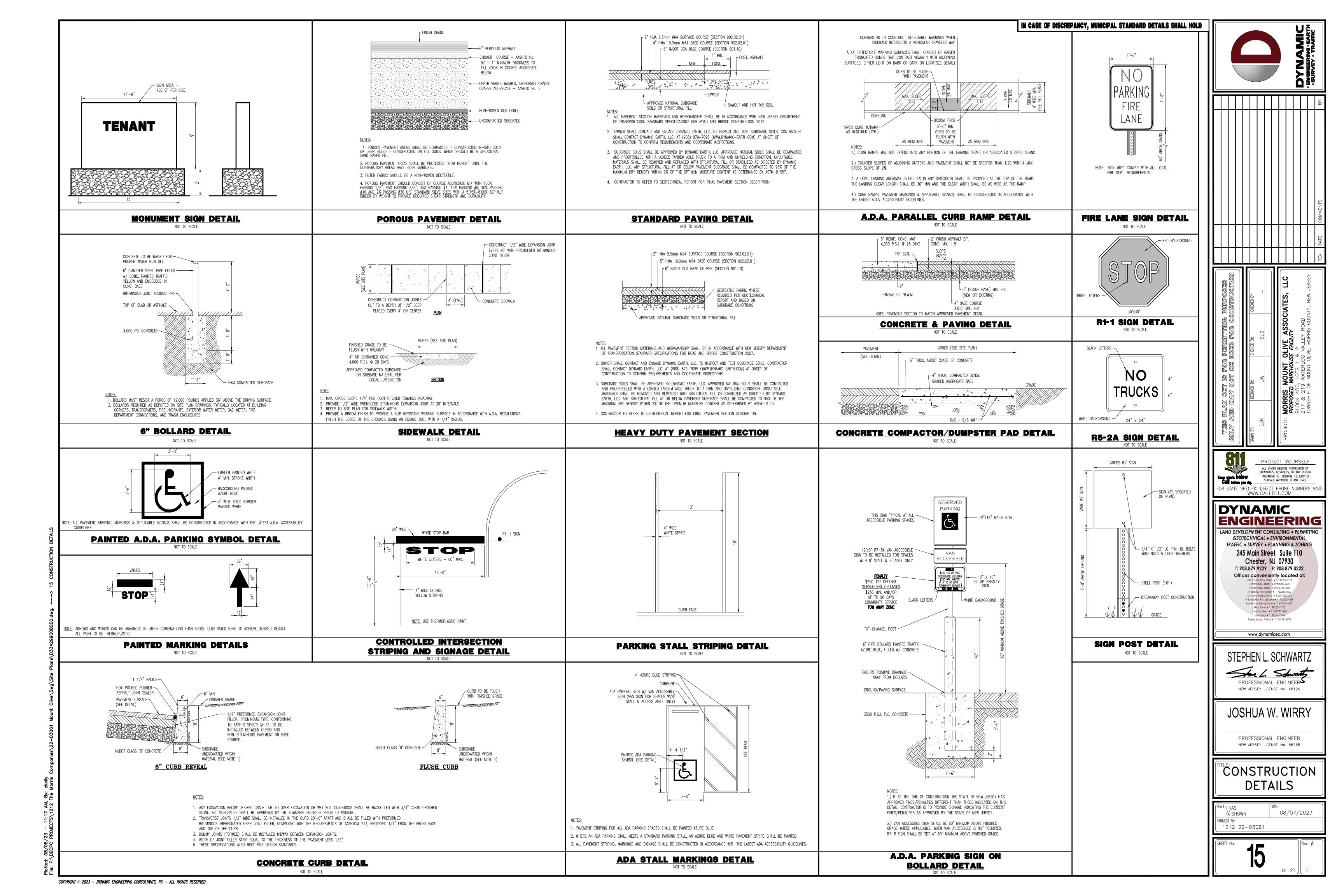
PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 48126

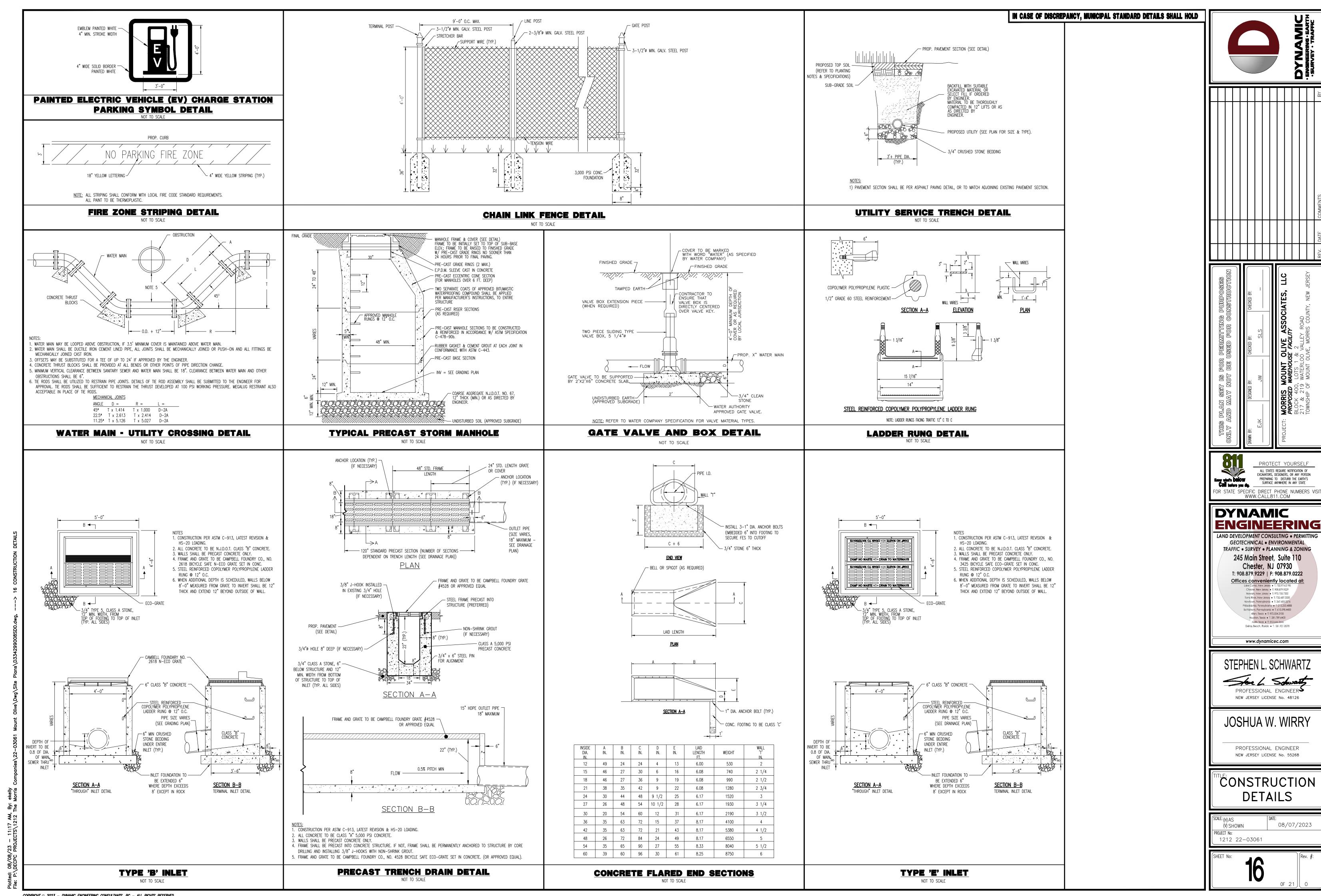
SOIL EROSION & SEDIMENT CONTROL **NOTES & DETAILS**

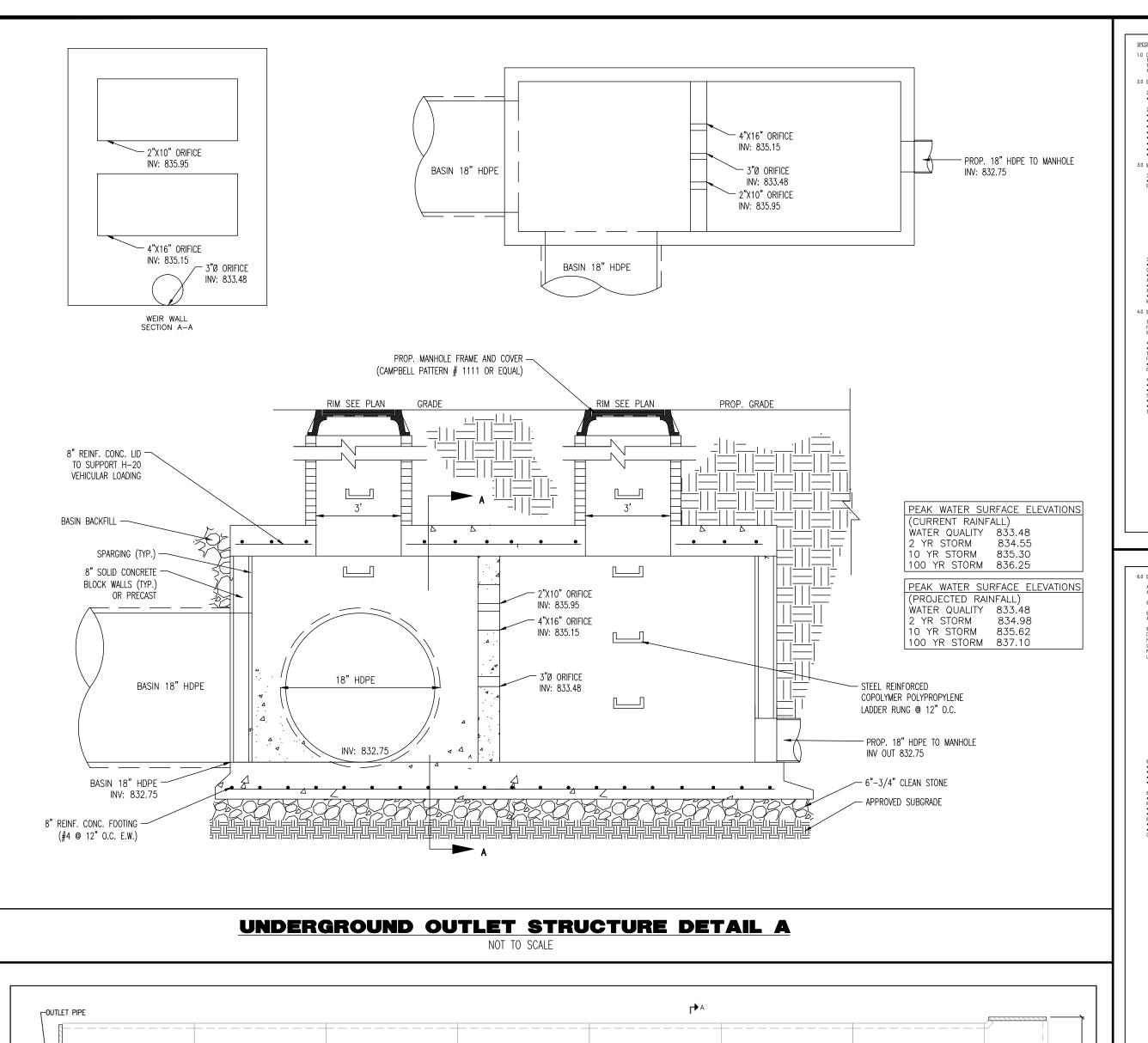
PROFESSIONAL ENGINEER

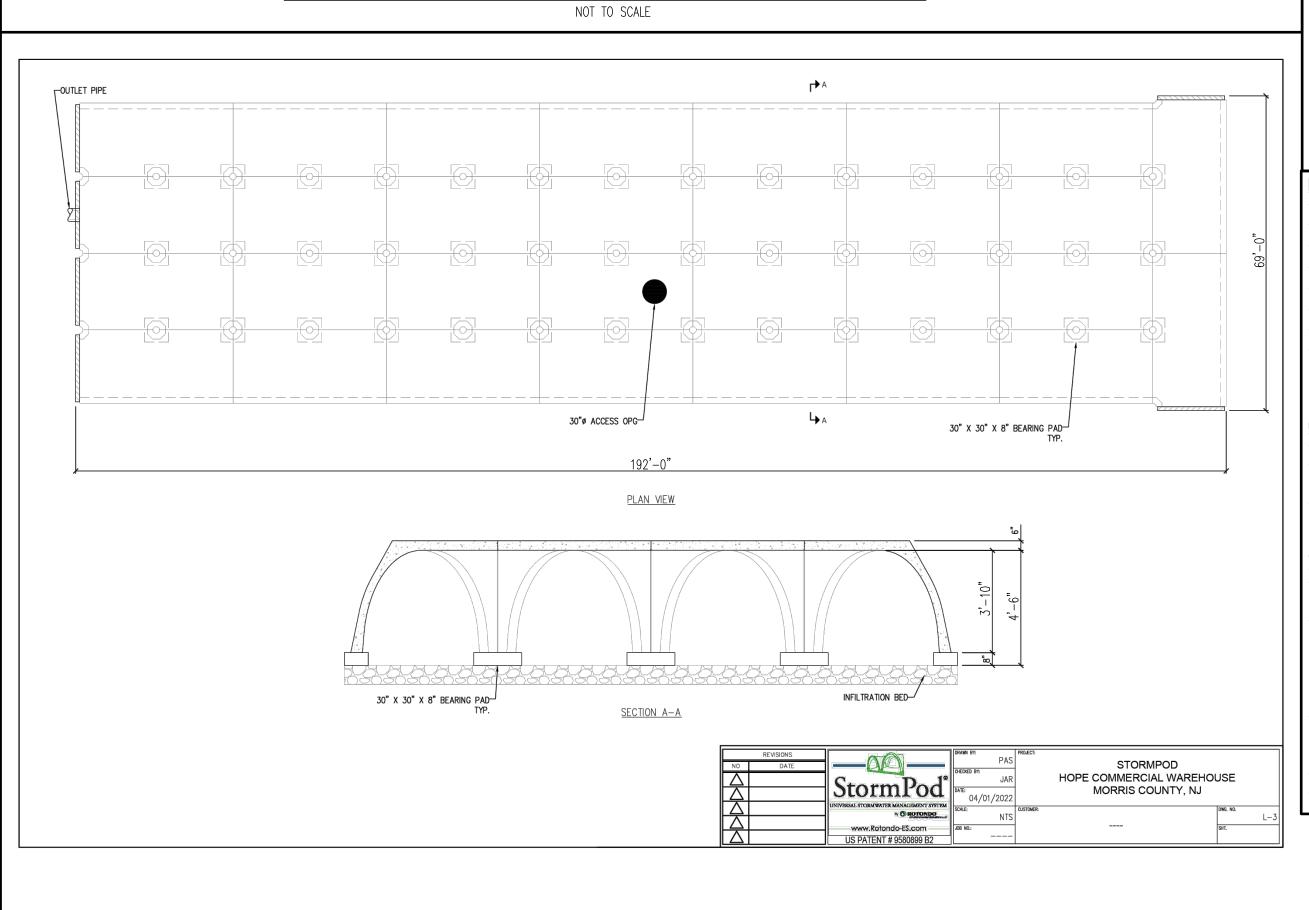
NEW JERSEY LICENSE No. 55268

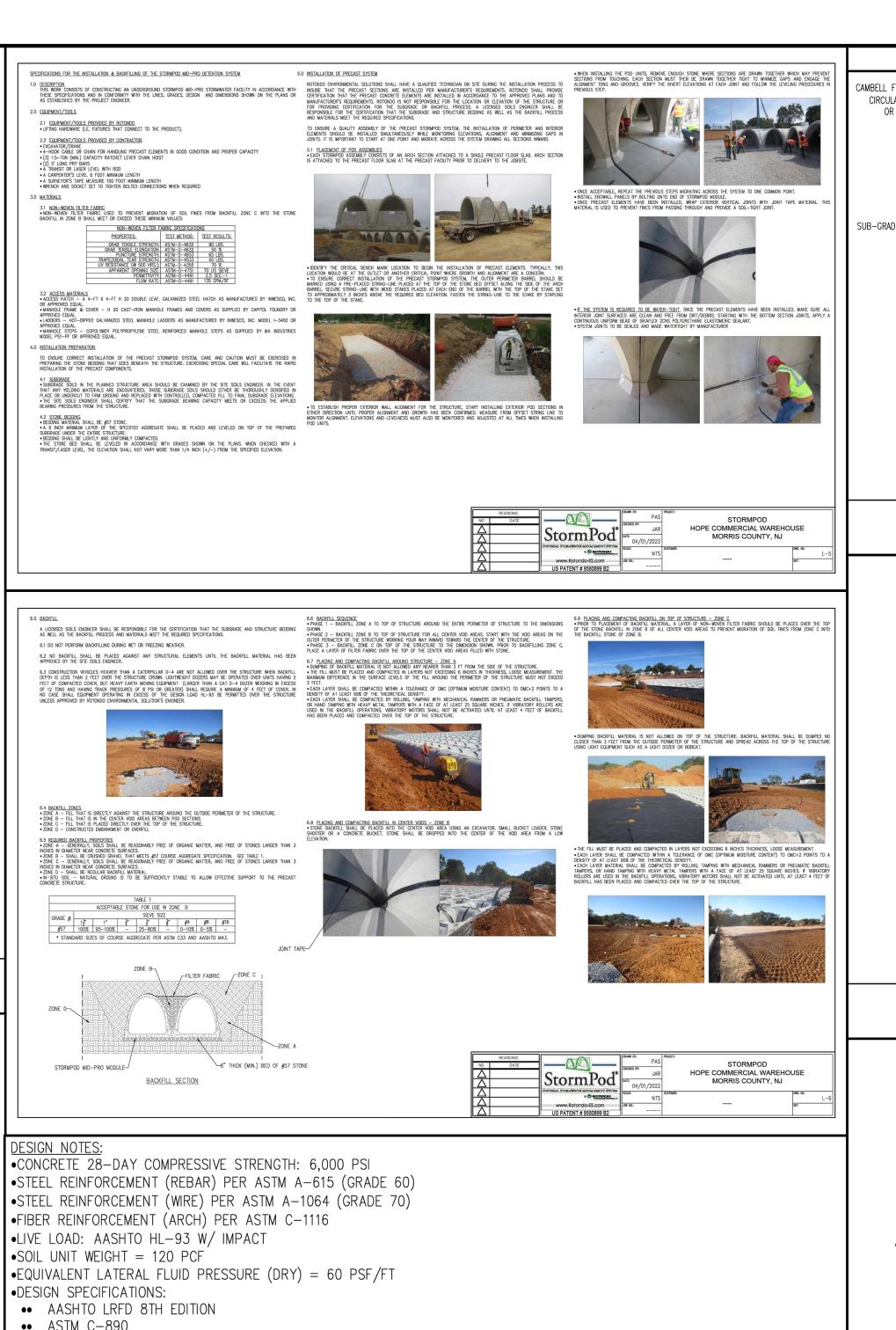
.t: (H) AS 08/07/2023 (V) SHOWN 1212 22-03061











•• ASTM C-890

<u>CONSTRUCTION NOTES:</u>

•LATERAL PIPE OPENINGS TO BE CAST INTO THE STRUCTURE AT THE PRECAST FACILITY. •LATERAL PIPES TO EXTEND INTO THE STRUCTURE FLUSH WITH THE INSIDE WALL, WITH THE ANNULAR SPACE BETWEEN THE

PIPE AND WALL OPENING SEALED WITH AN EXPANDABLE WATER-STOP AND AN APPROVED NON-SHRINK GROUT. •ACCESS RISERS AND MANHOLE COVERS TO BE INSTALLED AND GROUTED ON SITE TO MEET FINISH GRADE BY THE CONTRACTOR.

<u>WATERTIGHT JOINT NOTES (FILTER & PRE-TREATMENT CHAMBERS ONLY):</u>

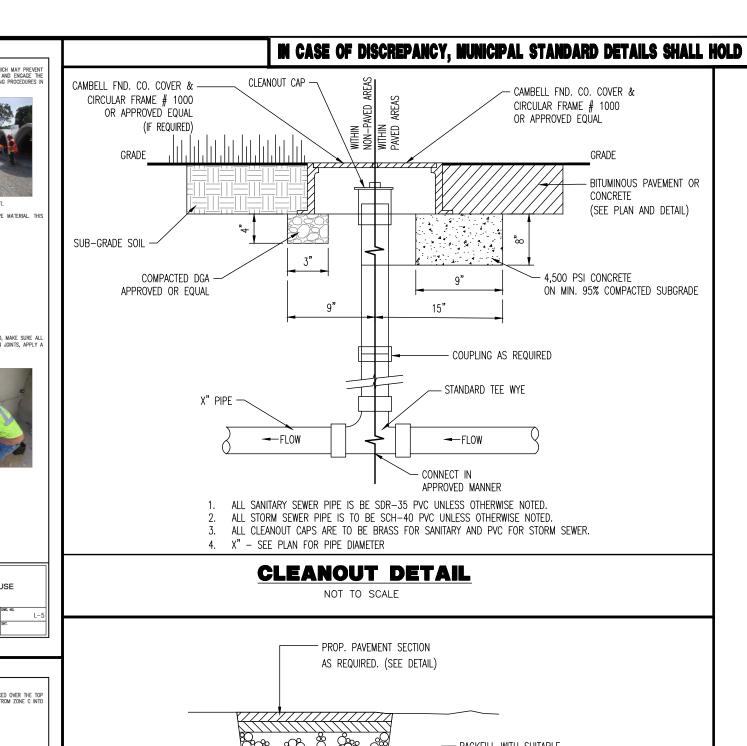
•INTERNAL CAULK JOINTS TO BE A CONTINUOUS SEAL THROUGHOUT EACH CHAMBER BY FILLING JOINTS WITH SIKAFLEX 2CNS POLYURETHANE ELASTOMERIC SEALANT WITH SIKAFLEX PRIMER.

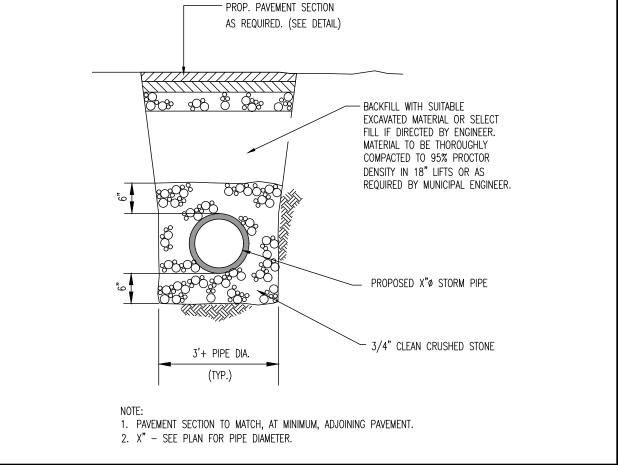
•THE JOINT SYSTEM BETWEEN SECTIONS AND CHAMBERS MUST BE WATERTIGHT TO 17.25 PSI HYDROSTATIC PRESSURE AS DEMONSTRATED BY THE COMPLETION OF A LABORATORY WATERTIGHT HYDROSTATIC JOINT SEAL TEST WITNESSED BY AN INDEPENDENT THIRD PARTY. THE TEST SHALL EXPOSE THE JOINT TO A CONTINUOUS HYDROSTATIC PRESSURE OF 15 PSI FOR 48-HOURS AND THEN 17.25 PSI FOR AN ADDITIONAL 15-MINUTES WITH ZERO LEAKAGE. THE HYDROSTATIC TEST REPORT SHALL BE SUBMITTED AND APPROVED PRIOR TO BID.

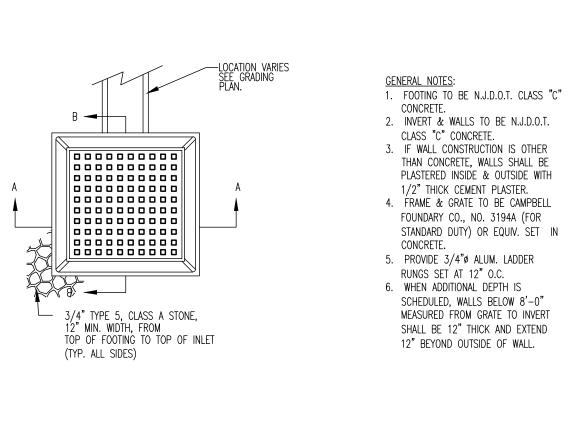
•AN EXTERIOR LINER IS NOT CONSIDERED AN ACCEPTABLE MEANS OF MAKING THE SYSTEM WATERTIGHT SINCE IT CANNOT MAKE INDIVIDUAL CHAMBERS WATERTIGHT BETWEEN EACH OTHER, ALLOWING SHORT CIRCUITING OF THE SANDFILTER SYSTEM TO OCCUR, THUS A LINER IS NOT ALLOWED.

•JOINTS TO BE SEALED ON SITE BY THE SYSTEM MANUFACTURER.

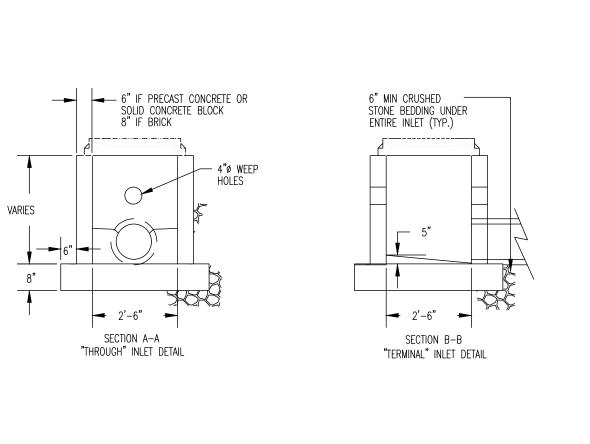
•WATERTIGHTNESS OF SYSTEM IS THE RESPONSIBILITY OF THE SYSTEM MANUFACTURER.



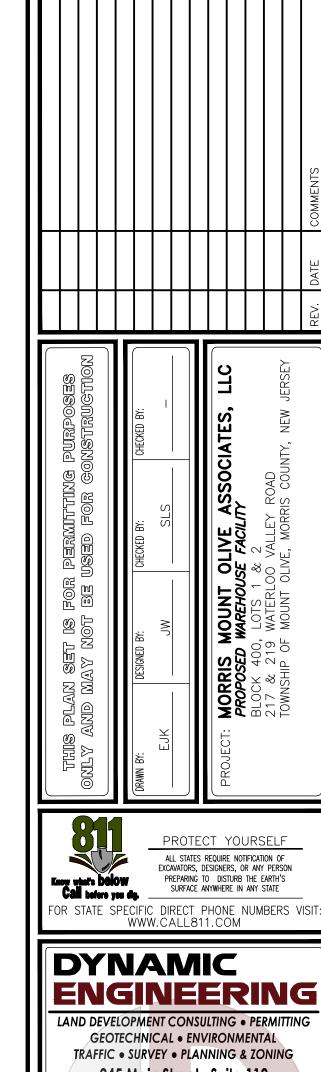




STORM SEWER TRENCH DETAIL



2 X 2 YARD INLET DETAIL NOT TO SCALE





www.dynamicec.com

Allen, Texas • T: 972.534.2100

Austin, Jexas • T: 512.646.2646 Delray Beach, Florida • T: 561.921.8570

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 48126

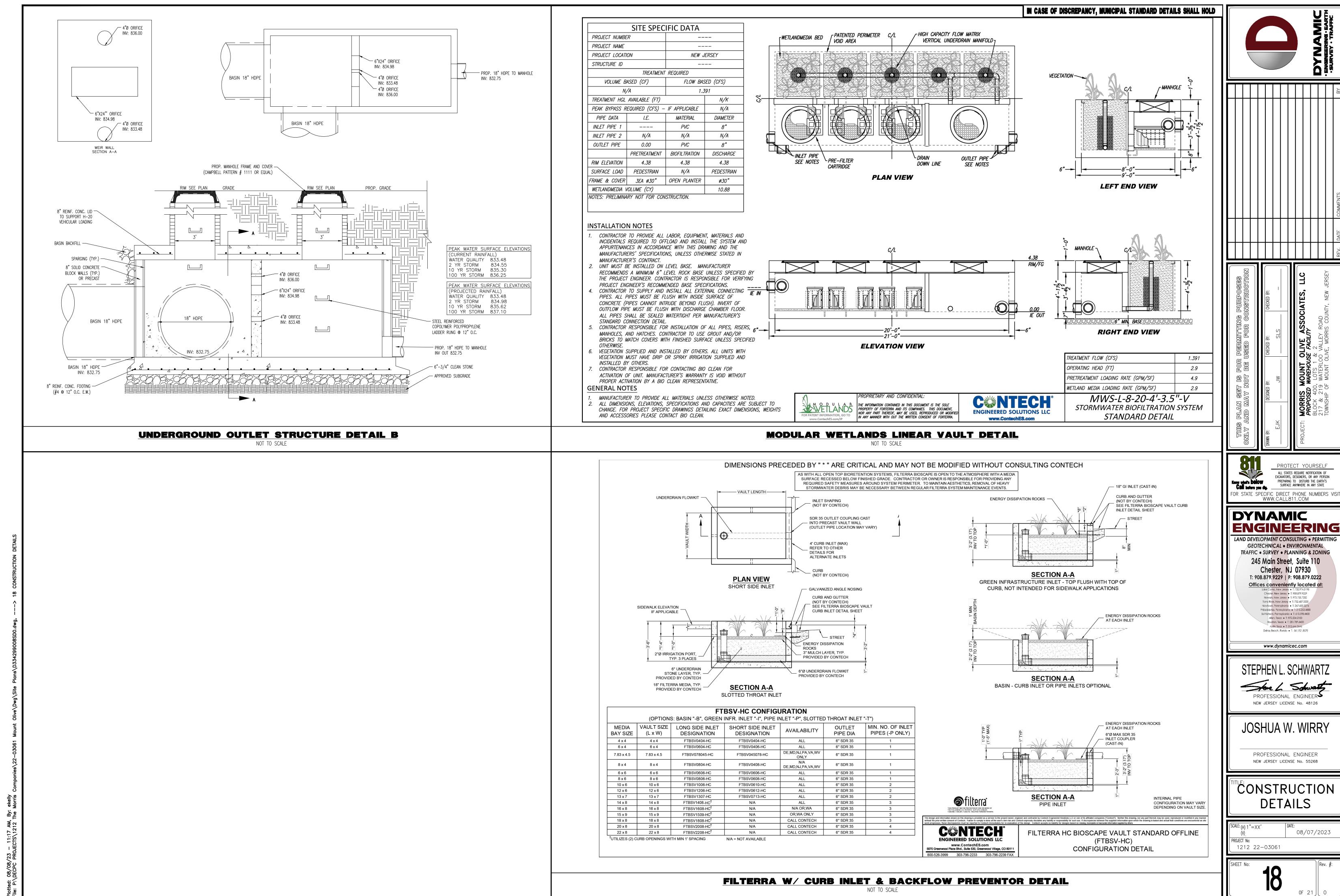
JOSHUA W. WIRRY

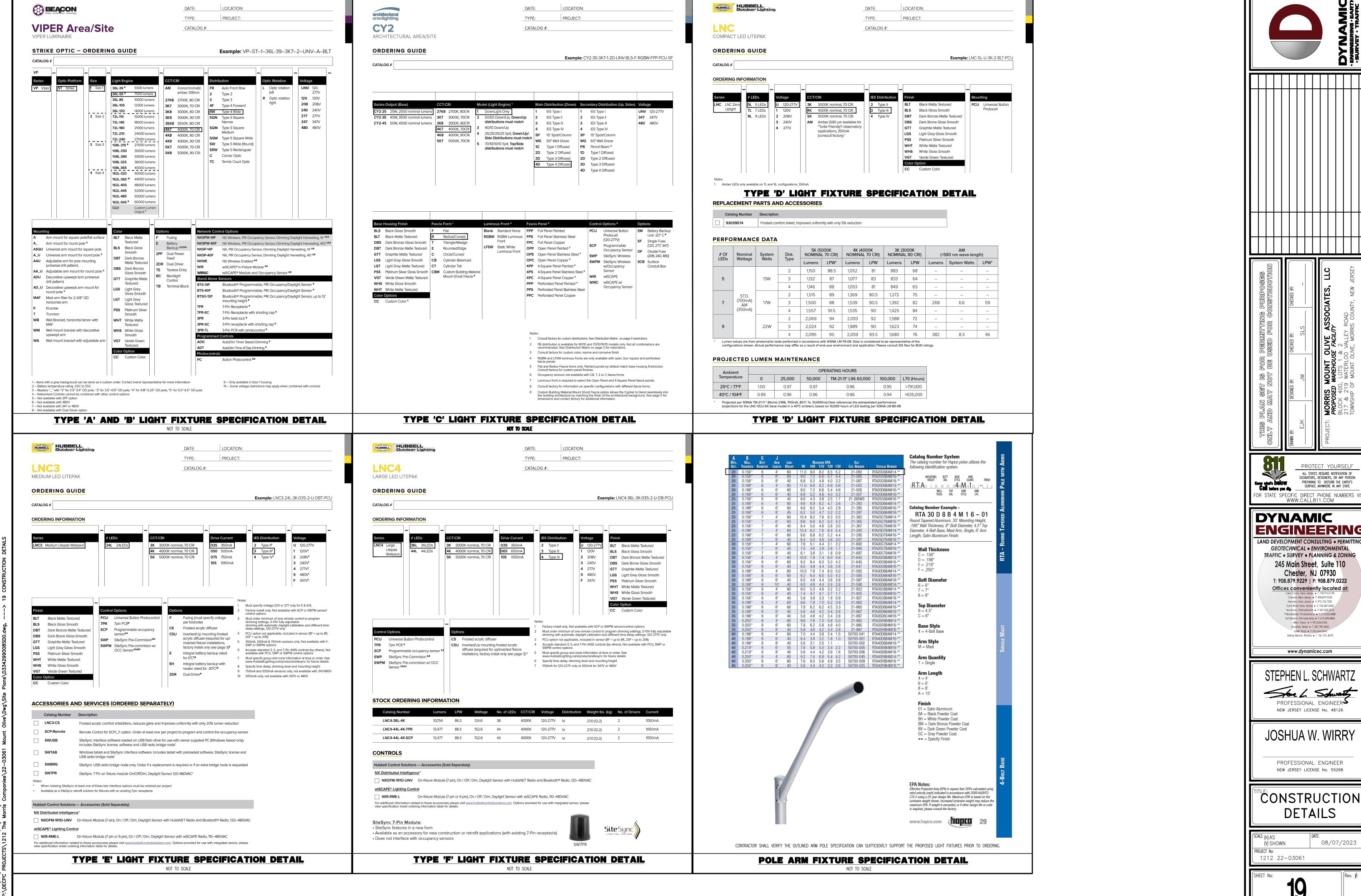
PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 55268

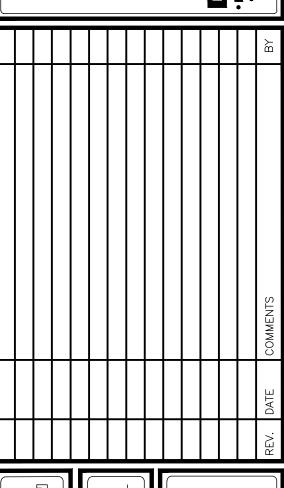
CONSTRUCTION **DETAILS**

08/07/2023 (V) SHOWN PROJECT No: 1212 22-03061





COPYRIGHT © 2023 - DYNAMIC ENGINEERING CONSULTANTS, PC - ALL RIGHTS RESERVED

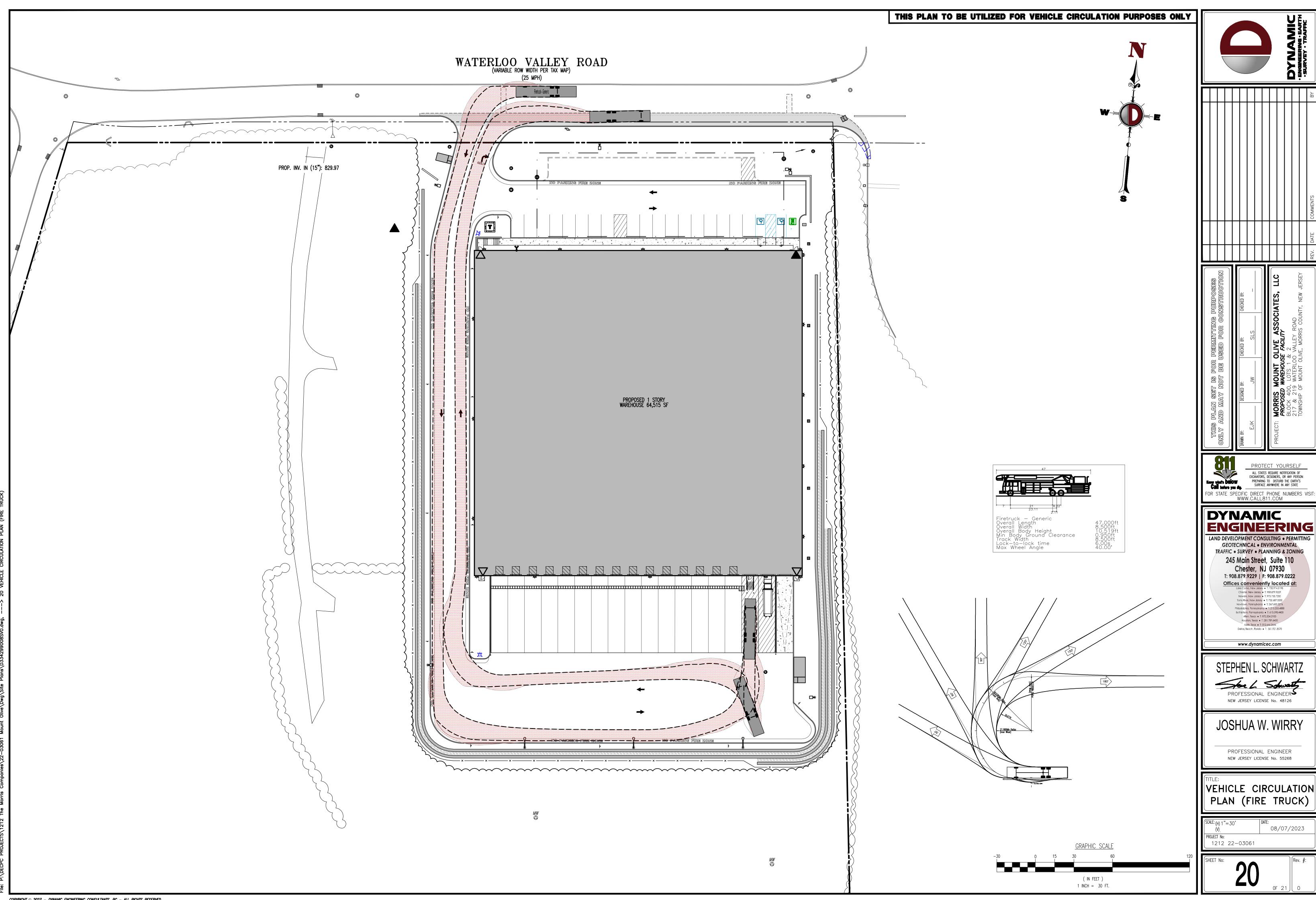


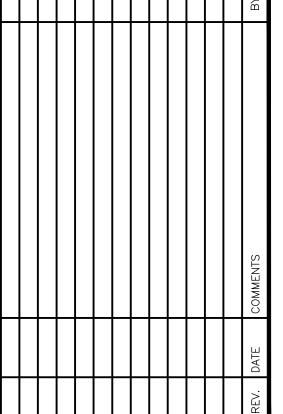
PROTECT YOURSELF

ENGINEERING LAND DEVELOPMENT CONSULTING • PERMITTING

TRAFFIC • SURVEY • PLANNING & ZONING

08/07/2023





VEHICLE CIRCULATION

