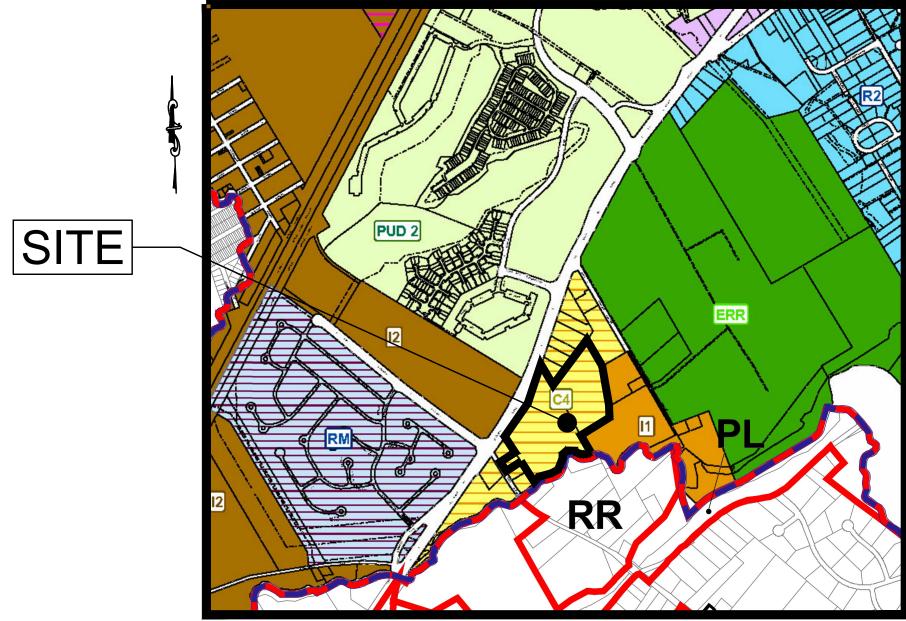
# PRELIMINARY & FINAL MAJOR SITE PLAN DM INVESTMENTS OF NORTH BRUNSWICK, LLC BLOCK 224 - LOTS 2, 5, 6 & 87 TOWNSHIP OF NORTH BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY



SCALE: 1"=1,000'

### **PROPERTY OWNERS WITHIN 200'**

(AS PROV		<u>CK TOWNSHIP</u> THE TOWNSHIP OF NORTH BRUNSWICK, 021)
BLOCK	LOT A	ADDRESS (MAILING ADDRESS)
148	112	FINNEGAN LANE ASSOC. c/o MARC LENNER P.O. BOX 1700 LIVINGSTON, NJ 07039
148.06	1	RENAISSANCE GLENN, LLC. 90 WOODBRIDGE CTR DRIVE 600 WOODBRIDGE, NJ 07095
223	3.01	MATRAFAJLO, JERRY - TRUSTEE 438 DAVIDSON'S MILL ROAD NORTH BRUNSWICK, NJ 08902
223	3.02	COUNTY OF MIDDLESEX 1 JFK SQUARE PO BOX 871 NEW BRUNSWICK, NJ 08903
224	1	OCEANPETROLEUM INC., c/o HOUTAN MOSTAGHIM 2359 RESEARCH COURT WOODBRIDGE, VA 22192
224	2	DM INVESTMENTS OF NO BRUNS, LLC 1315 STELTON ROAD PISCATAWAY, NJ 08854
224	3	TAORMINA, JACK & MARY 443 DAVIDSON'S MILL ROAD NORTH BRUNSWICK, NJ 08902
224	4	CHAN, MICKY 445 DAVIDSON'S MILL ROAD NORTH BRUNSWICK, NJ 08902
224	7	SALZMANN, DONALD G. & HALAS, DENNIS 147 DAVIDSON'S MILL ROAD NORTH BRUNSWICK, NJ 08902
224	8	DM INVESTMENTS OF ROUTE 130, LLC 1260 STELTON ROAD PISCATAWAY, NJ 08854
224	9	ROSENBURGH CORP. c/o KW RASTALL OIL 2460 ROUTE 130 NORTH BRUNSWICK, NJ 08902
224	10	2440 REALTY ASSOCIATES, LLC. 11 KIRKSTONE CIRCLE WESTFIELD, NJ 07090
224	11	2440 REALTY CORPORATION 2600 US ROUTE 130 NORTH BRUNSWICK, NJ 08902
224	12, 84	VAN DEURSEN, RICHARD 492 OLD GEORGES ROAD NORTH BRUNSWICK, NJ 08902
224	86	BENANTI REALTY, LLC. 4 OAKWOOD PLACE

NORTH BRUNSWICK, NJ 08902

(AS PROV	<u>SOUTH BRUNSWICK TOWNSHIP</u> (AS PROVIDED BY THE TOWNSHIP OF SOUTH BRUNSWICK, DATED JUNE 14, 2021)						
<u>BLOCK</u>	<u>LOT</u>	ADDRESS (MAILING ADDRESS)					
27	3.17	KOVACH, MARGARET 15 DAVIDSONS MILL ROAD NORTH BRUNSWICK, NJ 08902					
27	3.18	ROBINSON, HAKIM & ANDREA 13 DAVIDSONS MILL ROAD NORTH BRUNSWICK, NJ 08902					
27	4	DM INVESTMENTS @ NORTH BRUNSWICK 1315 STELTON ROAD PISCATAWAY, NJ 08854					
27	5	VAN DEURSEN, RICHARD 492 OLD GEORGE ROAD NORTH BRUNSWICK, NJ 08902					

NORTH BRUNSWICK TOWNSHIP

NORTH BRUNSWICK TOWNSHIP

NORTH BRUNSWICK, NJ 08902

MANAGER - CORP. PROPERTIES

N.J. GEN. TAX ADMINISTRATION

CABLEVISION OF RARITAN VALLEY

ATTN: MARGURITE PRENDERVILLE

DEPARTMENT OF TRANSPORTATION

TEXAS EASTERN TRANSMISSION CORP.

540 BROAD ST. ROOM 305 NEWARK, NJ 07101

275 CENTENNIAL AVENUE

PISCATAWAY, NJ 08855

STATE OF NEW JERSEY

501 COOLIDGE STREET

SUNOCO PIPELINE L.P.

MONTELLO COMPLEX

525 FRITZTOWN ROAD

SINKING SPRING, PA 19608

RIGHT OF WAY

SOUTH PLAINFIELD, NJ 07080

1035 PARKWAY PLAZA TRENTON, NJ 08625

PUBLIC SERVICE ELECTRIC & GAS, CO.

ATTN: TOWNSHIP CLERK

**75 BAYARD STREET** NEW BRUNSWICK, NJ 08901

710 HERMAN ROAD

80 PARK PLAZA-T6B

NEWARK, NJ 07102

VERIZON INC.

CN 6805

### UTILITIES/AGENCIES

(AS PROVIDED BY THE TOWNSHIP OF NORTH	(AS PROVIDED BY THE TOWNSHIP OF SOUTH
BRUNSWICK, DATED JUNE 15, 2021)	BRUNSWICK, DATED JUNE 14, 2021)
MIDDLESEX COUNTY PLANNING BOARD	SUN PIPE LINE COMPANY
COUNTY ADMINISTRATION BUILDING	RIGHT OF WAY DEPT.
5TH FLOOR	525 FRITZTOWN ROAD
75 BAYARD STREET	SINKING SPRING, PA 19608
	,

SOUTH BRUNSWICK TOWNSHIP

MS. JOAN PURCARO **RIGHT OF WAY REPRESENTAIVE** NEW JERSEY NATURAL GAS COMPANY PO BOX 1464 WALL, NJ 07719

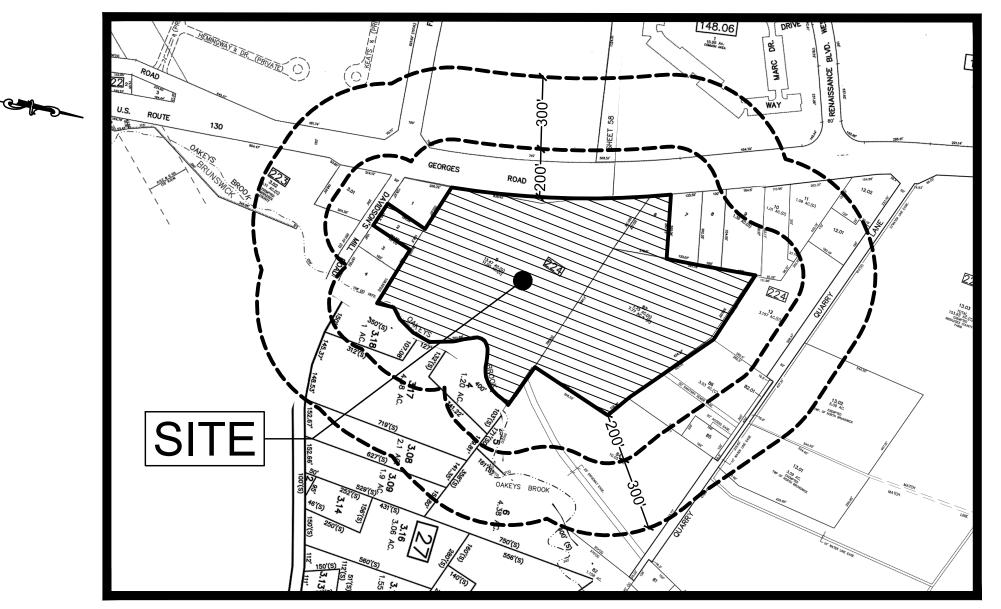
DONNA SHORT - GIS SUPERVISOR NEW JERSEY - AMERICAN WATER COMPANY, INC 1025 LAUREL OAK ROAD VOORHEES, NJ 08043

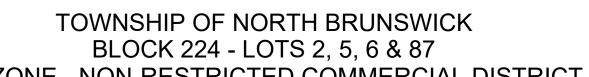
NEW JERSEY BOARD OF PUBLIC UTILITIES PO BOX 350 44 S. CLINTON AVE TRENTON, NJ 08625

PSE&G 80 PARK PLAZA PO BOX 570 NEWARK, NJ 07102-4194 VERIZON NEW JERSEY INC.

540 BROAD STREET, 20TH FLOOR NEWARK, NJ 07102

COMCAST BUISNESS COMMUNICATION LLC ONE COMCAST CENTER CONSTRUCTION DEPARTMENT - MR. TIM ALLEN PHILADELPHIA, PA 19103





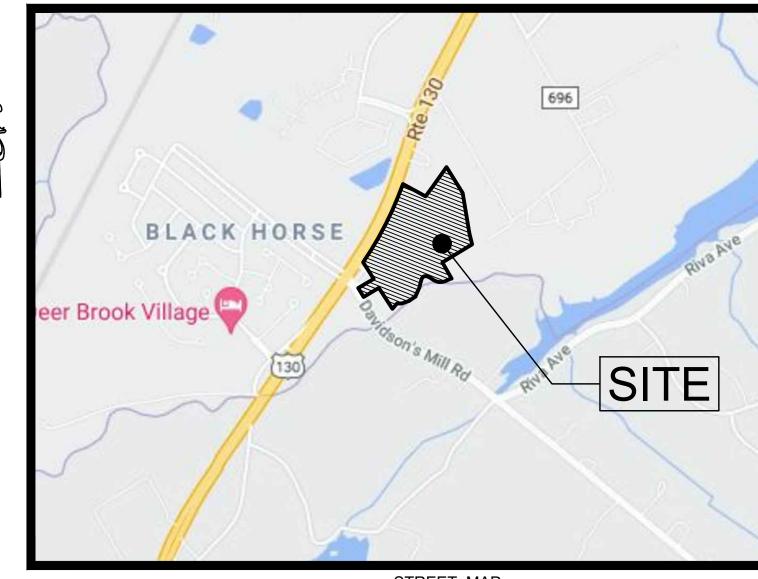
# C-4 ZONE - NON-RESTRICTED COMMERCIAL DISTRICT

	ITEM	CODE	REQUIRED/PERMITTED	EXISTING	PROPOSED		SIGNAGE	TABLE
				TRACT	75407			
				TRACT	TRACT		FRONT FACADE	
	MIN. LOT AREA	(SECT. 205-68.5.E.1.a)	50,000 SF	949,009 SF±	949,009 SF±		NUMBER OF SIGNS PERMITTED	
			1.148 AC	21.786 AC±	21.786 AC±		(SECT. 205-105.G)	1 OR MORE
	MIN. LOT WIDTH	(SECT. 205-68.5.E.1.b)	200 FT	912.97 FT	912.97 FT		NUMBER OF SIGNS PROPOSED	3
		· · · · · · · · · · · · · · · · · · ·					TOTAL SIGN AREA PERMITTED	10% OF FRONT FACADE AREA
	SETBACKS						(SECT. 205-105.G)	10% X 24,382 SF = 2,438 SF
	MINIMUM TRACT BOUNDARY SETBACKS	(SECT. 205-68.5.E.1.c)	75 FT	42.43 FT *	<b>()</b> 60.4 FT		TOTAL SIGN AREA PROPOSED	858 SF
	MINIMUM LOT FRONT SETBACK	(CECT: 200-00.0.E.T.O)	7011	42.4011	00.411			808 SF
				40 40 FT *			SIGN PROJECTION FROM BUILDING FACE PERMITTED	10.111
	FROM FRONT SETBACK, US ROUTE 130	· · · · · · · · · · · · · · · · · · ·	75 FT	42.43 FT *	85.3 FT			12 IN
	FROM ALL OTHER STREETS	(SECT. 205-68.5.A)	60 FT	7.45 FT *	323.93 FT		(SECT. 205-102.K)	
	FROM SITE ACCESS ROADS	(SECT. 205-68.5.E.1.d)	20 FT	N/A	<b>2</b> 12.1 FT		SIGN PROJECTION FROM BUILDING	
	FROM DRIVE OR PARKING AISLE	(SECT. 205-68.5.E.1.d)	6 FT	N/A	12 FT		FACE PROPOSED	<12 IN
	MINIMUM LOT SIDE YARD	(SECT. 205-68.5.E.1.e)	0 FT	302.8 FT	60.4 FT			
	MINIMUM LOT REAR YARD	(SECT. 205-68.5.E.1.f)	0 FT	415.23 FT	287.5 FT	FACADE SIGNS	RIGHT SIDE FACADE	
						FACADE SIGNS	NUMBER OF SIGNS PERMITTED	0
	PARKING TO FRONTAGE	(SECT. 205-68.D)	10 FT	N/A	11.7 FT		NUMBER OF SIGNS PROPOSED	0
		· · · · · ·					TOTAL SIGN AREA PERMITTED	0 SF
	MAX. PRINCIPAL BUILDING HEIGHT	(SECT. 205-68.5.E.1.g)	50 FT	<50 FT	≤ 50 FT		TOTAL SIGN AREA PROPOSED	0 SF
		(02011200 00.0.2.1.g)	0011	0011			LEFT SIDE FACADE	
	MAX. PRINCIPAL BUILDING COVERAGE		N/A	0.86%	24.85%		NUMBER OF SIGNS PERMITTED	0
	MAX. FRINCIPAL BUILDING COVERAGE		N/A	0.00 %	235,883 SF		NUMBER OF SIGNS PROPOSED	0
			4000/	0.400/			TOTAL SIGN AREA PERMITTED	0 SF
	MAX. LOT COVERAGE	(SECT. 205-68.5.E.1.h)	100%	8.40%	60.83%		TOTAL SIGN AREA PROPOSED	0 SF
				84,419 SF	577,282 SF		REAR FACADE	0.01
							NUMBER OF SIGNS PERMITTED	0
	PARKING AREA DRIVEWAY SETBACK FROM							
	NEAREST R.O.W. LINE TO INTERSECTING ST	. (SECT. 205-98.B.3)	200 FT	N/A	202.4 FT		NUMBER OF SIGNS PROPOSED	0
	DRIVEWAY ROADWAY WIDTH	(SECT. 205-68.5.E.2)					TOTAL SIGN AREA PERMITTED	0 SF
	NON-TRUCK DELIVERY ROUTE	(SECT. 205-68.5.E.2.a)	30 FT	N/A	3 25 FT		TOTAL SIGN AREA PROPOSED	0 SF
	TRUCK DELIVERY ROUTE	(SECT. 205-68.5.E.2.a)	40 FT	N/A	436 FT			
	MINIMUM DRIVEWAY THROAT LENGTH	(SECT. 205-68.5.E.2.b)	100 FT	N/A	5 42.4 FT		NUMBER OF SIGNS PERMITTED	2 (INDUSTRIAL BUILDING OVER 100,000 SF
		(SEC1. 203-00.3.E.2.D)	10011		942.411		(SECT. 205-105.H.3)	GROSS FLOOR AREA)
	*EXISTING NON-CONFORMING CONDITION							2 MONUMENT SIGNS
	EXISTING NON-CONFORMING CONDITION						NUMBER OF SIGNS PROPOSED	(1 ALONG ROUTE 130 FRONTAGE & 1 ALONG
								DAVIDSON'S MILL ROAD FRONTAGE)
	PARKING						AREA OF SIGN PERMITTED	150 SF (TOTAL, BOTH SIGNS)
							(SECT. 205-105.H.3)	
						FREESTANDING	AREA OF SIGN PROPOSED	ILLUMINATED MONUMENT SIGN M-1 - 49.87 SF
NC.	STALL SIZE					SIGNS		ILLUMINATED MONUMENT SIGN M-2 - 24.94 SF
	STANDARD	(SECT. 205-98A)	9 FT x 18 FT	N/A	9 FT x 18 FT		SETBACK OF SIGN PERMITTED	20 Ft
							(SECT. 205-102.C)	
	REQUIRED SPACES						SETBACK OF SIGN PROPOSED	20 Ft
	3.3 SPACES/1,000 SF OFFICE USE	(SECT. 205-68.9.A.1)	7,074 SF * (3.3/1,000) = 24 S	SPACES			HEIGHT OF SIGN PERMITTED	20 Ft
	1 SPACE/2,500 SF INDUSTRIAL	(SECT. 205-68.9.A.1)	227,513 SF/2,500 = 92 SPA				(SECT. 205-102.D)	
	1 VISITOR SPACE/5 EXEC. EMPL.	(SECT. 205-100.A.3)	48 EXEC. EMPL./5 = 10 SP/				HEIGHT OF SIGN PROPOSED	ILLUMINATED MONUMENT SIGN M-1 - 7.83 FT
	TOTAL	(02011200 100.7.00)	126 SPACES	1020	166 SPACES (INCL. 6 EV SPACES)			ILLUMINATED MONUMENT SIGN M-2 - 3.92 FT
	TOTAL		120 OF AGEO		=172 SPACES**			
	TRUCK PARKING		TBD****					
	I RUCK PARKING		IBD		102 PARKING SPACES***			
	ELEC. VEHICLE CHARGING STATIONS (SECT. 205-3	,						
	IMMEDIATE USE: 3% OF TOTAL REQUIRED PA	ARKING	126 * 3% = 4 SPACES REQ	JIRED	6 SPACES WITH CHARGER TO BE PROVID	ED		
	IMMEDIATELY							
	FUTURE USE: 4% OF TOTAL REQUIRED PA	RKING	126 * 4% = 6 SPACES REQ	JIRED	6 SPACES TO BE WIRED FOR FUTURE EX	PANSION		
				OPOSED				
	STALL SIZE (SECT. 334-56) 12 F	T X 18 FT	N/A 11	FT X 18 FT, 8 F1	T X 18 FT 🔘			
		PACES		SPACES	ě			
				SPACES				
	LOADING (SECT. 205-97.H)							
		T x 35 FT	N/A 14	FT x 60 FT				
	REQUIREMENT TBD		N/A 14 N/A 46					
		,	N/A 40					

\*\*\*TRUCK PARKING SPACE TOTAL NOT INCLUDED IN OVERALL PARKING TOTALS \*\*\*\*QUANTITY OF LOADING SPACES REQUIRED TO BE DETERMINED BY PLANNING BOARD DURING SITE PLAN REVIEW

\*\*ELECTRIC VEHICLE CHARGING STALLS SHALL COUNT AS 2 STALLS FOR ZONING COMPLIANCE (SECT. 205-32C)

			THIS WORK PREPARED UNDER MY IMMEDIATE SUPERVISION BRADFORD J. ALLER PROFESSIONAL ENGINEER	DRAWN BY: YMS DATE: 7/14/21 APPROVED BY:	CHECKED BY BJA SCALE: AS NOTED	EP DESIGN SERVICES, LLC State of New Jersey Certificate of Authorization #: 24GA28126500	DM INVESTMEN
$\frac{1}{10000000000000000000000000000000000$			Baland			2901 Hamilton Boulevard	BLOCK
	1 NO.		12/15/21 DATE:	T of 27	o. Revision 1		



- SECTION 205-68.5(E)(1)(C) A MINIMUM TRACT BOUNDARY SETBACK OF 75 FT IS REQUIRED, WHEREAS 60.4 FT IS PROPOSED 2) SECTION 205-68.5(E)(1)(D) - A MINIMUM OF 20 FT IS REQUIRED FROM SITE
- ACCESS ROADS, WHEREAS 12.1 FT IS PROPOSED SECTION 205-68.5(E)(2)(a) - SITE ACCESS DRIVEWAY ROADWAY WIDTH SHALL
- BE 30 FT FOR NON-TRUCK DELIVERY ROUTES, WHEREAS 25 FT IS PROPOSED SECTION 205-68.5(E)(2)(a) - SITE ACCESS DRIVEWAY ROADWAY WIDTH SHALL
- BE 40 FT FOR TRUCK DELIVERY ROUTES. WHEREAS 36 FT IS PROPOSED SECTION 205-68.5(E)(2)(b) - MINIMUM DRIVEWAY THROAT LENGTH BETWEEN INTERSECTING ROADWAY AND THE FIRST ACCESS TO OFF-STREET PARKING OR AN INTERSECTING DRIVEWAY SHALL BE 100 FT, WHEREAS 42.4 FT IS PROPOSED.

### WAIVERS

- A) APPENDIX A SITE PLAN COMPLETENESS CHECKLIST ITEM No. 17 EXISTING AND PROPOSED CONTOURS TO BE AT 1 FOOT INTERVALS BASED ON NGVD29 DATUM, WHEREAS ALL ELEVATIONS ARE BASED ON NAVD88 DATUM. B) SECTION 205-68(G)(4) - TRUCK ACCESS TO LOADING/UNLOADING FACILITIES IN REAR OR SIDE YARDS ABUTTING RESIDENTIAL ZONES SHALL BE RESTRICTED
- BY A GATE, WHEREAS NO GATES ARE PROPOSED. C) SECTION 334-56 - ADA PARKING STALLS SHALL BE 12 FT X 18 FT, WHEREAS ADA PARKING STALLS ARE PROPOSED TO BE 8 FT X 18 FT AND 11 FT X 18 FT.

### UTILITY USAGE ESTIMATE

Potable Wa	ter Demand (Per N.J.A.C. S	5:21-5.3 (Table 5.1) & N.J.A.C. 7	:10-12.6	6 (Table 1))
Existing:	Storage Facility	9,354 sf * 0.125 gal/sf	=	1,170 gpd
			=	1,170 gpd
Proposed:	Warehouse 100 empl. *	0	=	2,500 gpd
	Office Space 7,074 sf * 0	.125 gal/sf	=	885 gpd
			=	3,385 gpd
		Net Increase	=	2,215 gpd
Sanitary Flo	w (Per NJAC 7:14A-23.3)			
Existing:	Storage Facility	9,354 sf * 0.100 gal/sf	=	936 gpd
			=	936 gpd
Proposed:	Warehouse 100 empl. *	25 gal/empl.	=	2,500 gpd
	Office Space 7,074 sf * 0	.100 gal/sf	=	<u>708 gpd</u>
			=	3,208 gpd
		Net Increase	=	2,272 gpd

BRADFORD J. ALLER PROFESSIONAL ENGINEER N.J. LICENSE NO. 43435 TITLE SHEET ENTS OF NORTH BRUNSWICK, LLC FOR 224 - LOTS 2, 5, 6 & 87 IP OF NORTH BRUNSWICK





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EX-1

DM-1

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SS-1

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EC-6

EC-7

PR-1

CD-1

CD-2

CD-3

VC-1

VC-2

LT-1

LT-2

LA-1

LA-2

_	
<u>(SHT)</u>	TITLE
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(2)	GENERAL NOTES & LEGEND
(3)	EXISTING SITE PLAN
(4)	DEMOLITION PLAN
(5)	PROPOSED SITE & GEOMETRY PLAN
(6)	PROPOSED SIGNAGE & STRIPING PLAN
(7)	PROPOSED UTILITY PLAN
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(9)	PROPOSED ADA GRADING PLAN
(10)	PROPOSED DRAINAGE PLAN
(11)	EROSION CONTROL PLAN I
(12)	EROSION CONTROL PLAN II
(13)	EROSION CONTROL PLAN III
(14)	EROSION CONTROL NOTES & DETAILS I
(15)	EROSION CONTROL NOTES & DETAILS II
(16)	EROSION CONTROL NOTES & DETAILS III
(17)	EROSION CONTROL NOTES & DETAILS IV
(18)	PROP. STORM & SANITARY PROFILES
(19)	CONSTRUCTION DETAILS I
(20)	CONSTRUCTION DETAILS II
(21)	CONSTRUCTION DETAILS III
(22)	PROPOSED VEHICLE CIRCULATION PLAN I
(23)	PROPOSED VEHICLE CIRCULATION PLAN II
(24)	PROPOSED LIGHTING PLAN I
(25)	PROPOSED LIGHTING DETAILS
(26)	PROPOSED LANDSCAPING PLAN
(27)	LANDSCAPING NOTES & DETAILS

OWNER DM INVESTMENTS OF NORTH BRUNSWICK, LLC 1260 STELTON ROAD PISCATAWAY, NJ 08854

### **APPLICANT**: DM INVESTMENTS OF NORTH BRUNSWICK, LLC 1260 STELTON ROAD PISCATAWAY, NJ 08854

AIRPERSON	DATE
CRETARY	DATE
GINEER	DATE
EREBY CERTIFY THAT I HAVE PREF IAT ALL DIMENSIONS AND INFORMA	

# **GENERAL NOTES**

- STATE ROUTE 130 AND NORTH OF DAVIDSON'S MILL ROAD.
- 2/12/21

- AMENDMENTS).

- REGULATIONS.
- 17. NO SOIL MATERIAL MAY BE IMPORTED TO OR EXPORTED FROM THE SITE, EXCEPT IN ACCORDANCE WITH AN APPROVAL AND
- CHANGES

- OWNER.
- TECHNICAL SPECIFICATIONS OF THE TOWNSHIP AND ALL OTHER APPLICABLE CODES.

# JTILITY NOTES

- MUNICIPAL AND STATE REGULATIONS.

- OTHER WATER MAINS SHALL BE MAINTAINED BY THE PROPERTY OWNER.
- 13. SEE ARCHITECTURAL DRAWINGS FOR ALL BUILDING UTILITY CONNECTION LOCATIONS.

# DEMOLITION NOTES

CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AND THE NEW JERSEY UNDERGROUND FACILITY PROTECTION ACT(NJSA 48:2-73, et seq.) AS AMENDED.

- 2. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR SHALL ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- 3. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR TO:
- A. OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION. B. NOTIFYING, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION DISTRICT, 72
- HOURS PRIOR TO THE START OF WORK. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION. E. LOCATING AND PROTECTING ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS. WATER. ELECTRIC. 6. SITE DATUMS: SANITARY AND STORM SEWER. TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC, WITHIN AND ADJACENT TO THE LIMITS OF PROJECT ACTIVITIES. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY
- NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
- G. ARRANGING FOR AND COORDINATING WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE UTILITY ENGINEER AND OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS. H. ACOORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE
- REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES. WORK REQUIRED TO BE DONE "OFF-PEAK" SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL WORK AND NOTIFY THE OWNER AND ENGINEER OF THE DISCOVERY OF SUCH MATERIALS.
- 4. THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- 5. THE CONTRACTOR SHALL NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS IT IS IN STRICT ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, AND/OR UNDER THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
- 6. CONTRACTOR SHALL BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL SHALL BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS, AND SHALL BE SUFFICIENTLY COMPACTED TO SUPPORT NEW IMPROVEMENTS AND IN COMPLIANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. BACKFILLING SHALL OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES, AND SHALL BE DONE SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE.
- 7. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
- 8. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHT-OF-WAY.
- 9. CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS. STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.
- 10. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER AND ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
- 11. THE CONTRACTOR SHALL USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL. STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT 24. ALL SIGNAGE, STRIPING & TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD. STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION
- 12. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
- 13. CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.
- 14. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION AS TO THE MEANS AND METHODS TO BE USED TO ACCOMPLISH THAT WORK. ALL MEANS AND METHODS UTILIZED ARE TO BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
- 15. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR SHALL MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES, TO BE PROVIDED TO THE OWNER UPON REQUEST.

16. CONTRACTOR SHALL MAINTAIN A RECORD SET OF PLANS UPON WHICH IS INDICATED THE LOCATION OF EXISTING UTILITIES THAT ARE CAPPED, ABANDONED IN PLACE, OR RELOCATED DUE TO DEMOLITION ACTIVITIES, THIS RECORD DOCUMENT SHALL

### ACCESSIBLE ROUTE NOTES

- NON-RAMP ACCESSIBLE ROUT
- 1. RUNNING SLOPE OF ROUTE SHALL NOT EXCEED 4.9%. 2. LATERAL OR CROSS SLOPE OF THE ROUTE SHALL NOT EXCEED 2.0%. 3. MINIMUM SIDEWALK WIDTH FLUSH WITH CURB AT PARKING STALLS SHALL BE 6'.
- 4. MINIMUM SIDEWALK WIDTH SHALL BE 5' (PER MUNICIPAL REQUIREMENTS). 5. A 5'x5' LANDING SHALL BE PROVIDED AT ALL DOORWAY ENTRANCES AND EXITS. 6. THE SLOPE IN ANY DIRECTION OF THE 5'x5' LANDING SHALL NOT EXCEED 2%.
- 1. A 5'x5' LANDING AREA SHALL BE PROVIDED AT THE TOP AND BOTTOM OF ALL RAMPS. 2. THE SLOPE IN ANY DIRECTION OF THE 5'x5' LANDING AREA SHALL NOT EXCEED 2%.
- 3. THE CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3%. 4. THE LATERAL OR CROSS SLOPE OF THE RAMP SHALL NOT EXCEED 2.0%. 5. ALL RAMPS SHALL DIRECT PEDESTRIAN TRAVEL PERPENDICULAR TO ROADWAY TRAFFIC
- AND OR PARALLEL WITH TRAVEL ROUTE. 6. CURB RAMP WIDTH SHALL BE 5' MIN.
- 7. SIDE ACCESS SLOPES OR TAPERS ON CURB RAMPS SHALL NOT EXCEED 10% WHERE SIDE ACCESS TO THE RAMP IS PROVIDED. MINIMUM WIDTH OF SIDE SLOPE SHALL BE 5' AT CURB. (only applicable on curb ramp type 1)
- 8. WHERE SIDE ACCESS IS NOT PROVIDED INTO RAMP, MAXIMUM WIDTH OF SIDE SLOPES HALL BE 18" AT CURB.
- 9. REGARDLESS OF CURB CONSTRUCTION THE DEPRESSED CURB AT THE RAMP AND SIDE FLARES SHALL BE POURED CONCRETE.
- 10. TRUNCATED DOME DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT ALL CURB RAMPS. WARNING SURFACE SHALL SPAN FULL WIDTH OF THE RAMP AND BE 24" LONG. SURFACE SHALL BE LOCATED ON THE RAMP AT THE LOWEST POINT OF THE RAMP.
- 11. WHERE TWO RAMPS ARE PROVIDED AT ONE CORNER FOR CROSSING THE RAMPS SHALL BE ORIENTED AT 90 DEGREES APART.
- 12. A SINGLE 5'x5' LANDING AREA CAN SERVE TWO RAMPS ORIENTED AT 90 DEGREES TO EACH OTHER.

### THE SLOPE IN ANY DIRECTION OF STALLS AND STRIPED AREAS SHALL NOT EXCEED 2.0% 2. STALLS SHALL BE THE MOST PROXIMATE TO THE BUILDING ENTRANCE AS FEASIBLE.

2. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT CODE.

- 1. ALL LAWN AREAS AND OPEN SPACE SHALL BE GRADED TO 2% MINIMUM GRADE AND TO A MAXIMUM GRADE OF 3 HORIZONTAL TO 1 VERTICAL.
- 2. ALL ACCESSIBLE RAMPS TO CONFORM TO CURRENT A.D.A. AND APPLICABLE STANDARDS.
- 3. ALL DRAINAGE TO BE REINFORCED HIGH DENSITY POLYETHYLENE (HDPE) PIPE UNLESS
- 4. ALL PROPOSED LAWN AREAS SHALL BE GRADED WITH LIGHT WEIGHT CONSTRUCTION
  - HIS WORK PREPARED BRADFC REVISED PER AGENCY REVIEW LETTER 12/15/21 I.J.P.E. LIC. NO. GE 434 REVISIONS DATE BY NO THIS DRAWING AND THE INFORMATION ON IT ARE CONFIDENTIAL AND ARE THE PROPERTY OF EP DESIGN SERVICES, LLC. AND MAY NOT BE USED FOR ANY PURPOSE OR PROJECT

13. LANDING AREAS SHALL BE POURED SEPARATELY FROM THE RAMPS, CURBS AND SIDEWALKS TO ENSURE PROPER SLOPES. 14. RAMPS SHALL BE POURED FLUSH WITH BACK SIDE OF CURB AND SIDEWALK.

RAMPS 1. ANY NON CURB RAMP ACCESSIBLE ROUTE THAT EXCEEDS 4.99% SHALL BE CONSIDERED A

GRADING & DRAINAGE NOTES:

- OTHERWISE NOTED.
- EQUIPMENT.

1. PROPERTY UNDER APPLICATION IS KNOWN AS BLOCK 224, LOTS 2, 5, 6, & 87 IN THE TOWNSHIP OF NORTH BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY (TAX MAP SHEET 60), CONSISTING OF APPROXIMATELY ± 21.773 ACRES AND LOCATED EAST OF NEW JERSEY

2. THE PROJECT PROPOSES THE CONSTRUCTION OF: ONE (1) INDUSTRIAL WAREHOUSE BUILDING AT 235,787 SF. THE PROJECT INCLUDES ALL ASSOCIATED PARKING AND UTILITIES.

3. TOPOGRAPHIC & BOUNDARY INFORMATION IS BASED ON A SURVEY PREPARED BY AMERTECH ENGINEERING, INC. TITLED " LEGAL & TOPOGRAPHIC SURVEY FOR EDGEWOOD PROPERTIES, INC., BLOCK 224, LOTS 2, 5, 6, 87 TOWNSHIP OF NORTH BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY, BLOCK 27, LOT 4 TOWNSHIP OF SOUTH BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY", DATED

WETLANDS INFORMATION IS BASED ON SURVEY PREPARED BY 3 WIRE SURVEYING, INC. ENTITLED "WETLAND DELINEATION PLAN, BLOCK 224 - LOTS 2, 5, 6, 8 & 87, TOWNSHIP OF NORTH BRUNSWICK, BLOCK 27 - LOTS 4 & 6, TOWNSHIP OF SOUTH BRUNSWICK, MIDDLESEX COUNTY, NEW JERSEY" DATED 5/19/09. LOI GRANTED 10/27/2009, EXTENDED 9/13/2017 FILE NO.: 1200-09-002.1 FWW 090001 5. 100 YEAR FLOOD PLAIN ELEVATION IS BASED ON THE FLOOD INSURANCE RATE MAP FOR THE TOWNSHIP OF NORTH BRUNSWICK (PANEL NO. 340270 0003 B), PREPARED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, EFFECTIVE MAY 1, 1980.

HORIZONTAL: NAD83 (NJSPCS) VERTICAL: NAVD88 (NGVD29 = NAVD88 + 1.02)

7. INITIAL NJDEP APPROVAL FOR THIS SITE WAS GRANTED ON SEPTEMBER 4, 2012. AN EXTENSION TO THIS APPROVAL WAS GRANTED ON SEPTEMBER 13, 2017. THE FOLLOWING PERMITS WHERE GRANTED: 1200.09-0002.3 FHA12001 - FLOOD HAZARD AREA INDIVIDUAL PERMIT

1200.09-0002.3 FWW110001 - FRESHWATER WETLANDS INDIVIDUAL PERMIT NO. 2 1200.09-0002.3 FWW110002 - FRESHWATER WETLANDS INDIVIDUAL PERMIT NO. 11 1200.09-0002.3 FWW110003 - FRESHWATER WETLANDS TAW AVERAGING PLAN

8. THE DRAWINGS INDICATE THE APPROXIMATE LOCATION OF EXISTING SUBSURFACE UTILITIES IN THE VICINITY OF THE PROJECT AND ARE NOT GUARANTEED FOR ACCURACY AND/OR COMPLETENESS. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION (1-800-272-1000). ANY CONFLICTS WITH THE PROPOSED CONSTRUCTION ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. ALL EXISTING UTILITIES THAT ARE TO BE RELOCATED OR ALTERED IN ANY MANNER ARE TO BE DONE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANIES STANDARDS.

9. DESIGN AND INSTALLATION OF ELECTRIC, GAS, TELEPHONE AND CABLE TV TO BE PROVIDED BY THE RESPECTIVE UTILITY COMPANIES 10. CONSTRUCTION MATERIAL AND METHODS NOT OTHERWISE SPECIFIED OR SHOWN HEREIN SHALL CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (THE LATEST EDITION AND

11. FOR SPECIFIC BUILDING DETAILS AND ELEVATIONS, SEE ARCHITECTURAL DRAWINGS.

12. FOR SPECIFIC SIGNAGE DETAILS, SEE ARCHITECTURAL DRAWINGS.

13. SITE GRADING & UTILITY WORK ARE TO BE PERFORMED IN A MANNER TO MINIMIZE DAMAGE TO EXISTING VEGETATION AND TREES. ALL AREAS NOT AFFECTED BY CONSTRUCTION ARE TO REMAIN NATURAL AND UNDISTURBED. 14. ALL EXISTING OR PROJECT GENERATED DEBRIS ARE TO BE REMOVED AND PROPERLY DISPOSED OF ACCORDING TO ALL APPLICABLE

15. TOPSOIL THAT HAS BEEN REMOVED FOR THE GRADING OF THE SITE SHALL NOT BE USED AS SPOIL. THE TOPSOIL SHALL BE REDISTRIBUTED ON GREEN AREAS SO AS TO PROVIDE A MINIMUM OF AT LEAST 6 INCHES OF DEPTH ON THOSE AREAS. 16. COMPACTION OF FILL AREAS BENEATH ALL PROPOSED UTILITIES AND STRUCTURES SHOULD MEET ALL CODE REQUIREMENTS AND BE

EQUAL TO THE MINIMUM 95% MODIFIED PROCTOR DENSITY.

EXECUTED FINAL PLAT, NOR WITHOUT THE PRIOR APPROVAL OF THE MUNICIPAL COUNCIL. 18. IF APPLICABLE, SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.

19. 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

20. REFUSE AND RECYCLING ENCLOSURES TO BE CONSTRUCTED OF MATERIALS SIMILAR TO BUILDINGS.

21. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. 22. IT SHALL BE THE OWNER AND/OR CONTRACTORS RESPONSIBILITY TO CONDUCT SOIL TESTING TO CONFIRM APPLICABILITY OF PROPOSED IMPROVEMENTS AND CONSTRUCTION TECHNIQUES WITH RESPECT TO SUBSURFACE SOIL

23. ALL CURB RADII SHALL BE 5' UNLESS OTHERWISE NOTED.

25. THE MAINTENANCE AND INSPECTION OF THE PROPOSED STORMWATER SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY

26. ALL PROPOSED INTERIOR ROADWAYS TO BE PRIVATE.

27. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA, LOCAL, & STATE GOVERNING SAFETY CODES, AND

28. A STORMWATER MAINTENANCE AGREEMENT WILL BE FILED WHICH SETS FORTH DOCUMENTATION THAT ANY PROPOSED DRAINAGE SYSTEM AND ANY STORMWATER (DRAINAGE SWALES/DETENTION/RECHARGE FACILITIES) WILL BE ADFOUATELY MAINTAINED IN ACCORDANCE WITH THE STANDARDS OF MIDDLESEX COUNTY. REFER TO THE PARAGRAPH IN THE STORMWATER MAINTENANCE AGREEMENT ENTITLED 'RIGHT OF COUNTY OF MIDDLESEX TO MAINTAIN DRAINAGE BASINS'. CONDITIONS THAT AFFECT NON-COUNT FACILITIES SHOULD BE REVIEWED AND APPROVED BY THE APPROPRIATE JURISDICTIONAL AGENCY.

1. ADEQUATE WATER SUPPLY, SEWAGE FACILITIES, AND OTHER UTILITIES TO BE PROVIDED IN ACCORDANCE WITH

2. POTABLE WATER SUPPLY TO BE PROVIDED WITH PROTECTION FROM POLLUTION AND DEGRADATION OF WATER QUALITY IN ACCORDANCE WITH THE STANDARDS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

3. FIRE HYDRANTS, WATER, SEWAGE FACILITIES, AND OTHER NECESSARY IMPROVEMENTS TO BE CONSTRUCTED IN ACCORDANCE WITH THE TOWNSHIP ORDINANCE AND COUNTY AND STATE REGULATIONS.

4. ALL SANITARY SEWER LINES TO CONNECT TO EXISTING SANITARY LINES BY GRAVITY AT THE LOCATIONS SHOWN. REFER TO INDIVIDUAL SITE PLANS FOR SPECIFIC ON-SITE SEWER DESIGN.

5. WATER SERVICE LINES TO BE CONNECTED TO THE EXISTING WATER MAINS AT THE LOCATIONS SHOWN ON THE PROPOSED UTILITY PLANS. REFER TO INDIVIDUAL SITE PLANS FOR SPECIFIC ON-SITE WATER SERVICE DESIGN.

6. WATER LINE AND SANITARY SEWER LINES TO BE A MINIMUM OF 10' SEPARATION HORIZONTALLY OR 18" VERTICALLY UNLESS OTHERWISE NOTED. IN ANY SEPARATION THAT IS LESS THAN 18" BETWEEN SANITARY SEWER AND STORM PIPES, A CONCRETE SADDLE SHALL BE USED.

7. WATERLINES TO HAVE A MINIMUM OF FOUR FEET COVER.

8. ALL EXTERNAL METERS AND EXTERIOR BUILDING MOUNTED UTILITIES TO BE CLEARLY AND PERMANENTLY MARKED.

9. KNOX SECURITY BOXES SHALL BE INSTALLED ON EACH BUILDING ON SITE FOR FIRE DEPARTMENT ACCESS.

10. ALL SANITARY SEWER LATERALS SHALL BE SLOPED AT A MINIMUM OF 1.0% FOR 6"Ø PIPES AND A MINIMUM OF 2.0% FOR 4"Ø PIPES, AND SHALL BE NO DEEPER THAN 8 FEET BELOW FINISHED FLOOR ELEVATIONS.

11. WATER COMPANY OR LOCAL MUA SHALL OWN WATER MAINS IN THE EXISTING AND DEDICATED PUBLIC STREETS. ALL

12. THE TOWNSHIP SHALL OWN SEWER MAINS IN THE EXISTING AND DEDICATED PUBLIC STREETS. ALL OTHER SEWER AND SANITARY SEWER CONNECTIONS SHALL BE MAINTAINED BY THE PROPERTY OWNER, UNLESS OTHERWISE NOTED.

14. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED BY ROMAC GRIP RING OR APPROVED EQUAL.

15. SERVICE LINES SHALL BE EQUIPPED WITH A BACKFLOW DEVICE TO BE INSTALLED IN ACCORDANCE WITH N.J.A.C. SUBCHAPTER 7:10-10.4 AND IN ACCORDANCE WITH THE AUTHORITY'S CONTAINMENT SCHEME. THE BACKFLOW DEVICE SHALL BE AFTER THE METER, WITH A VALVE BEFORE AND AFTER THE DEVICE.

16. ALL STORM AND SANITARY SEWER STRUCTURES SHALL BE PRECAST CONCRETE.

17. ALL SANITARY PIPE TO BE SDR-35 PVC PIPE UNLESS OTHERWISE NOTED. ALL WATERLINES TO BE CLASS 52 CEMENT-LINED DUCTILE IRON PIPE UNLESS OTHERWISE NOTED.

18. ALL NEW GAS, ELECTRIC, TELEPHONE AND CABLE TV SERVICE IS TO BE INSTALLED UNDERGROUND THROUGHOUT THE DEVELOPMENT IN ACCORDANCE WITH THE REGULATIONS OF THE LOCAL UTILITY COMPANIES AND TOWNSHIP. DESIGN AND INSTALLATION OF ELECTRIC, GAS, TELEPHONE AND CABLE TV TO BE PROVIDED BY THE RESPECTIVE UTILITY COMPANIES.

PROPOSED

LEGEND

FROF	<u>OSED</u>
123	PROP. 1ft COUNTOUR LINE
125	PROP. 5ft CONTOUR LINE
w	PROP. POTABLE WATER LINE
ss	PROP. SANITARY SEWER LINE
G	PROP. GAS LINE
——— е ———	PROP. ELECTRIC LINE
*E*	PROP. OVERHEAD ELECTRIC LINE
xx	PROP. FENCE LINE
	PROP. CURB LINE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	PROP. TREE LINE
	PROP. STORM PIPE
	PROP. CONCRETE SIDEWALK
oo	PROP. SILT FENCE
TC100.00 BC100.00	PROP. SPOT ELEVATION
<del>-×</del> €	PROP. FIRE HYDRANT
*	PROP. FIRE DEPT. CONNECTION
••	PROP. LIGHT POLE
	PROP. "B" INLET
С	PROP. UTILITY POLE
	PROP. MANHOLE

PROP. "A" INLET

PROP. "E" INLET

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### NEW JERSE SHEET 2 oF 27

NERAL NOTES & LEGEND MENTS OF NORTH BRUNSWICK, LLC FOR OCK 224 - LOTS 2, 5, 6 & 87 SHIP OF NORTH BRUNSWICK

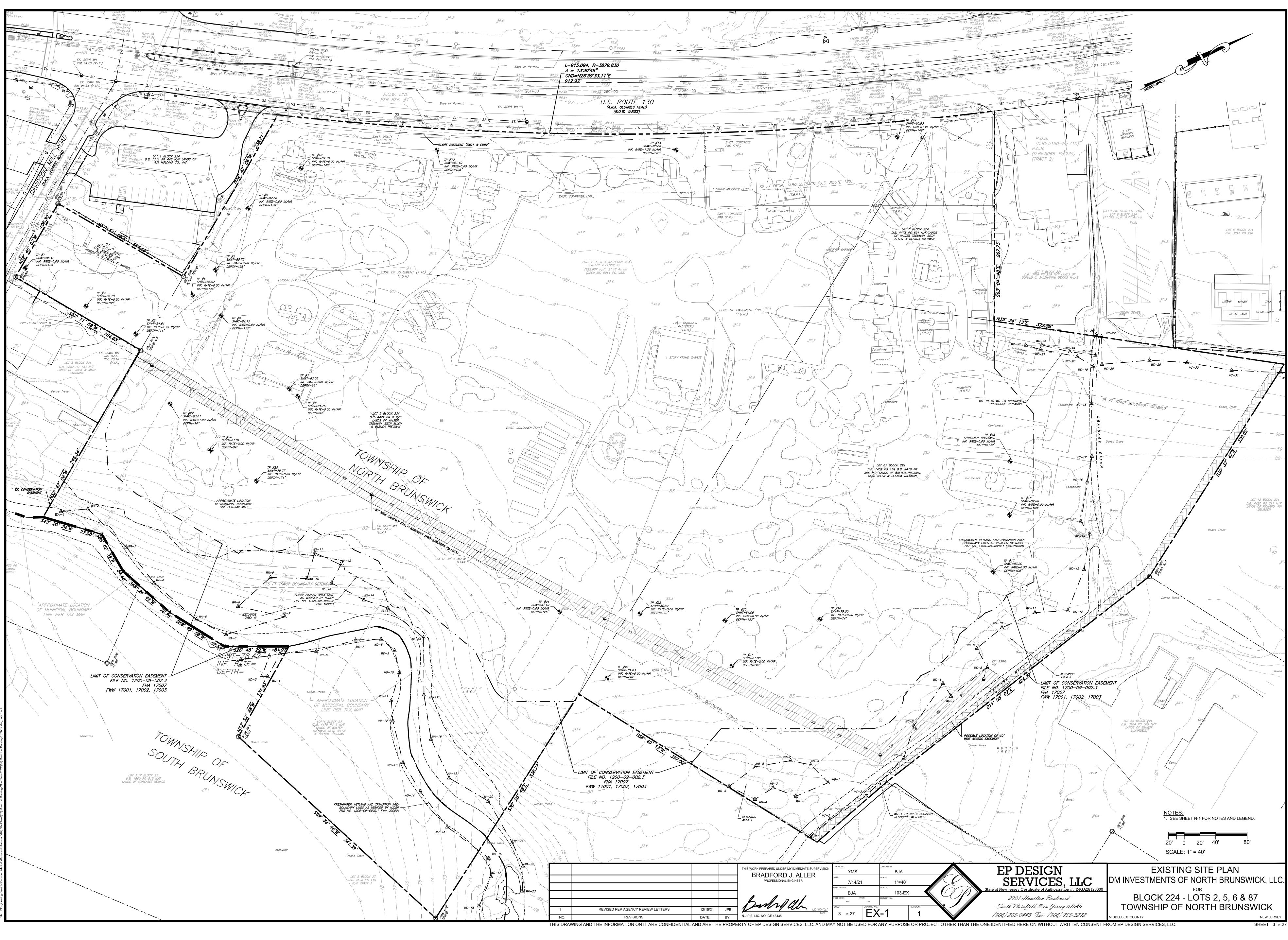
– EXIST. POTABLE WATER LINE \_\_\_\_\_ // \_\_\_\_ – EXIST. SANITARY SEWER LINE - EXIST. GAS LINE \_\_\_\_\_ G \_\_\_\_ - EXIST. ELECTRIC LINE \_\_\_\_\_ F \_\_\_\_ - EXIST. OVERHEAD ELECTRIC LINE \_\_\_\_\_ \*E\* \_\_\_\_ ------ # ----- EXIST. FENCE LINE EXIST. CURB LINE EXIST. TREE LINE EXIST. CONC. SIDEWALK 🗕 🗕 🗕 🧰 PROPERTY BOUNDARY LINE ----- PRIMARY BUILDING SETBACK LINE EXIST. BRUSH LINE EXIST. STORM PIPE \_\_\_\_\_ \_ EXIST. SPOT ELEVATION BC100.00 *EXIST. FIRE HYDRANT* EXIST. FIRE DEPT. CONNECTION 🔆 🛛 EXIST. LIGHT POLE EXIST. "B" INLET C EXIST. UTILITY POLE EXIST. MANHOLE EXIST. "A" OR "E" INLET : <u>EXISTING CHANNEL</u>

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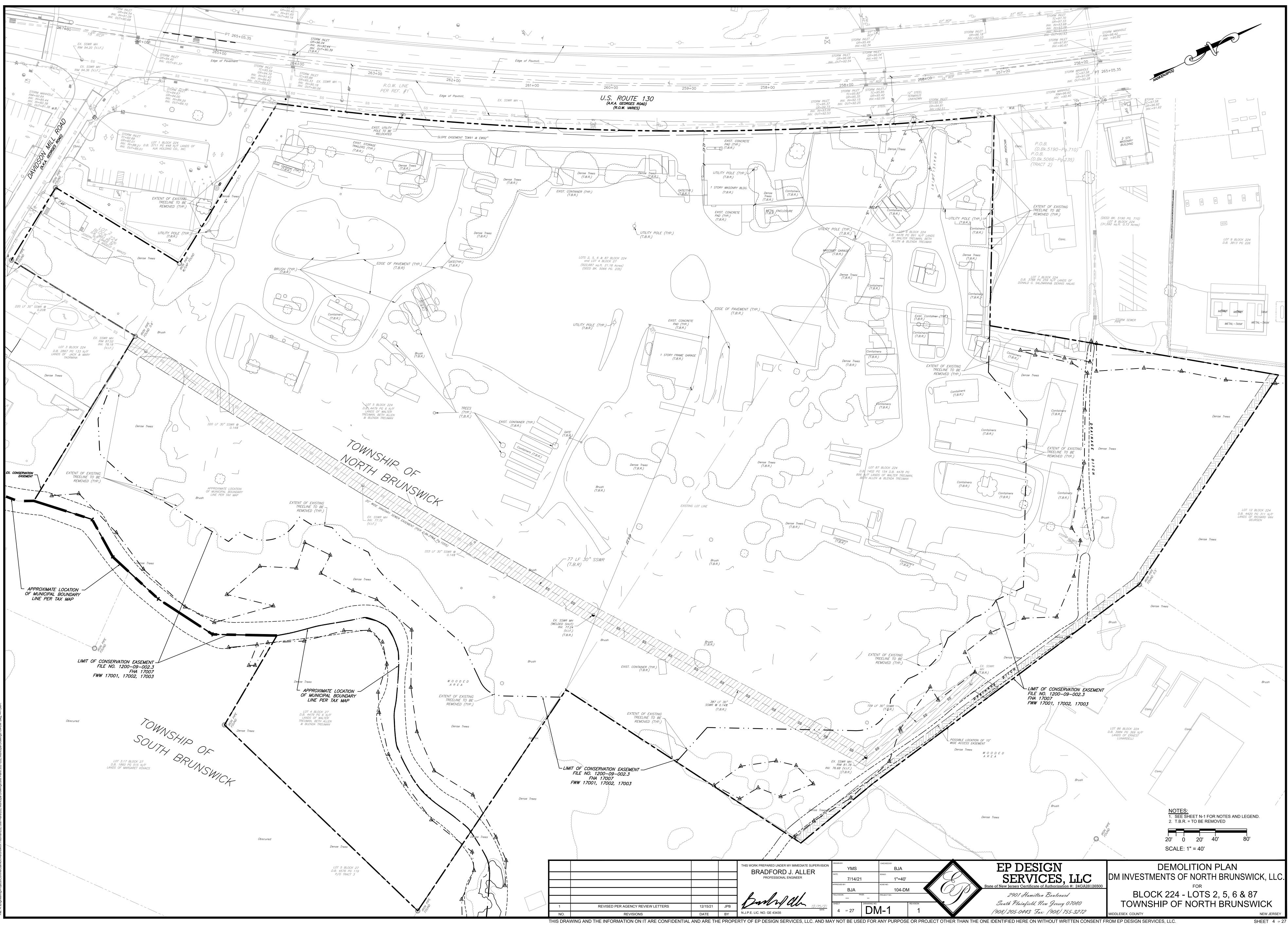
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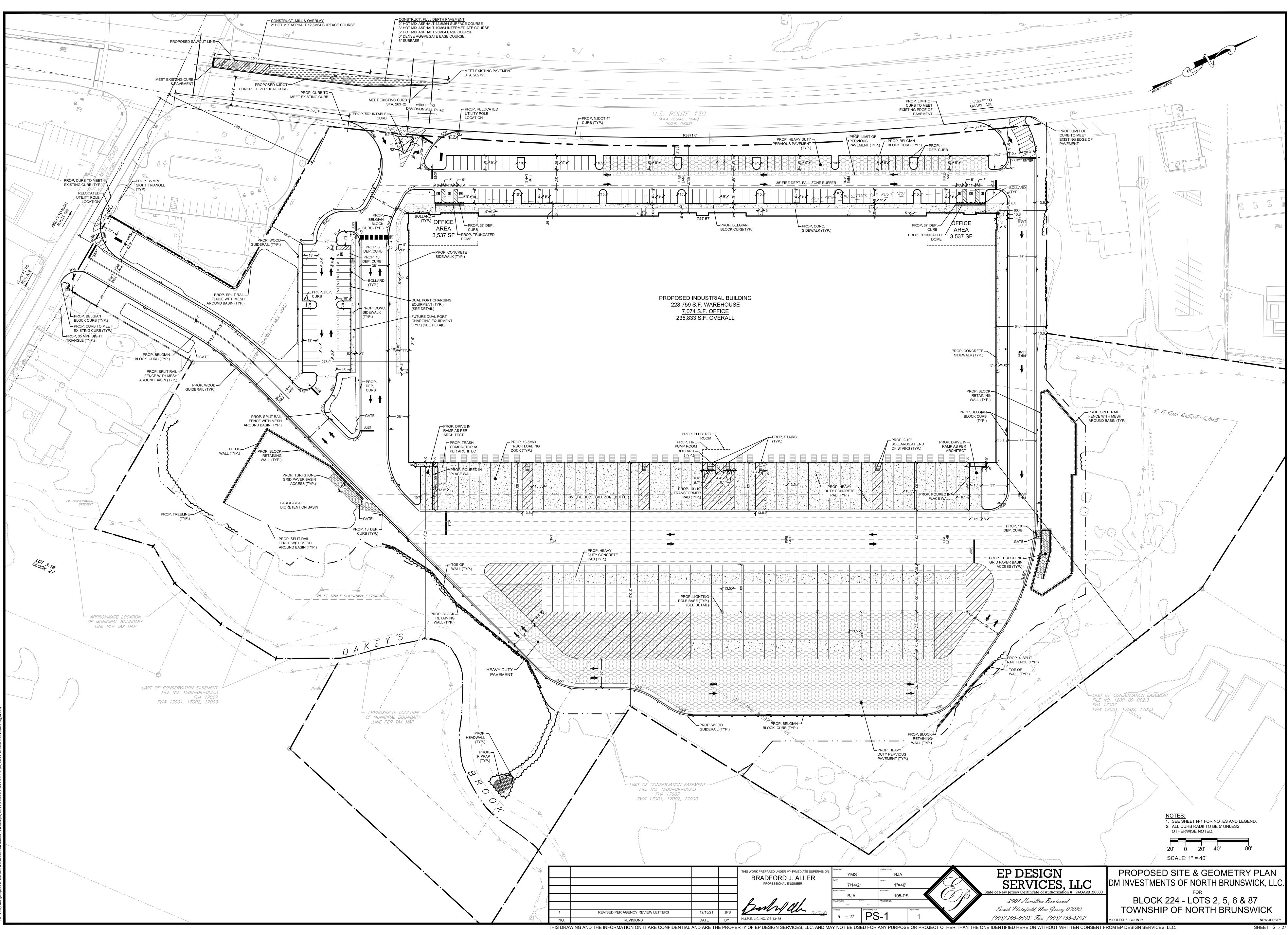
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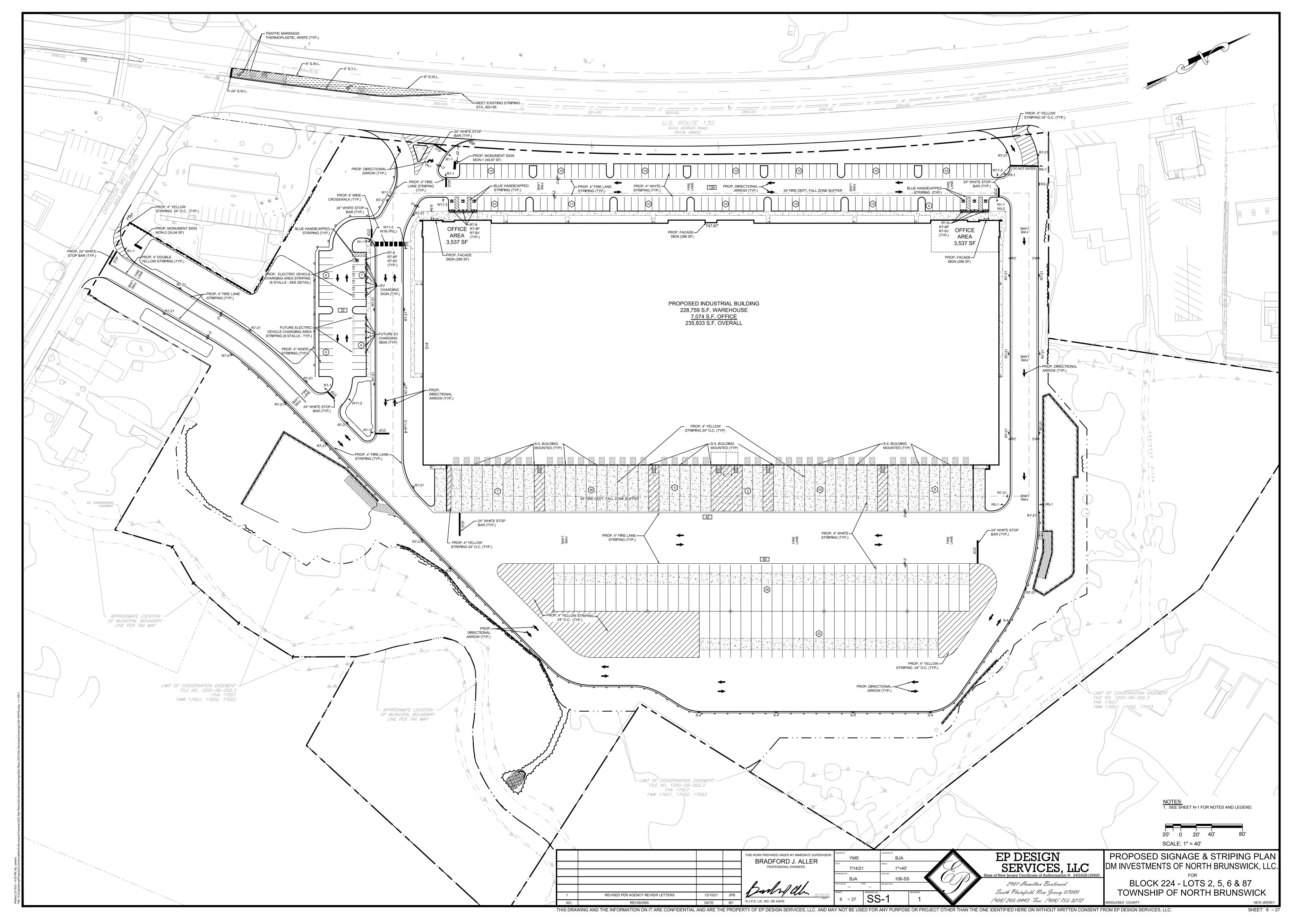
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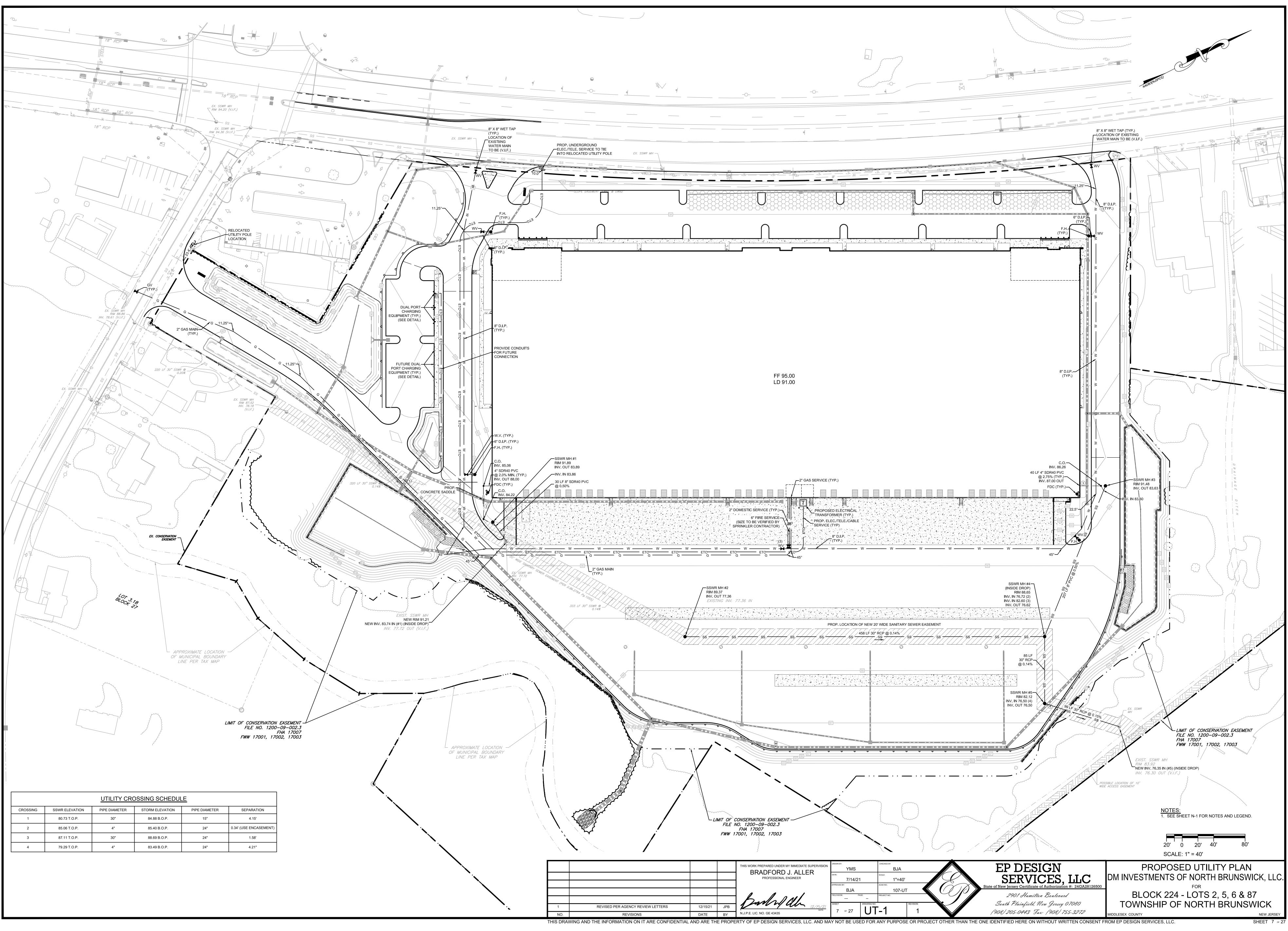


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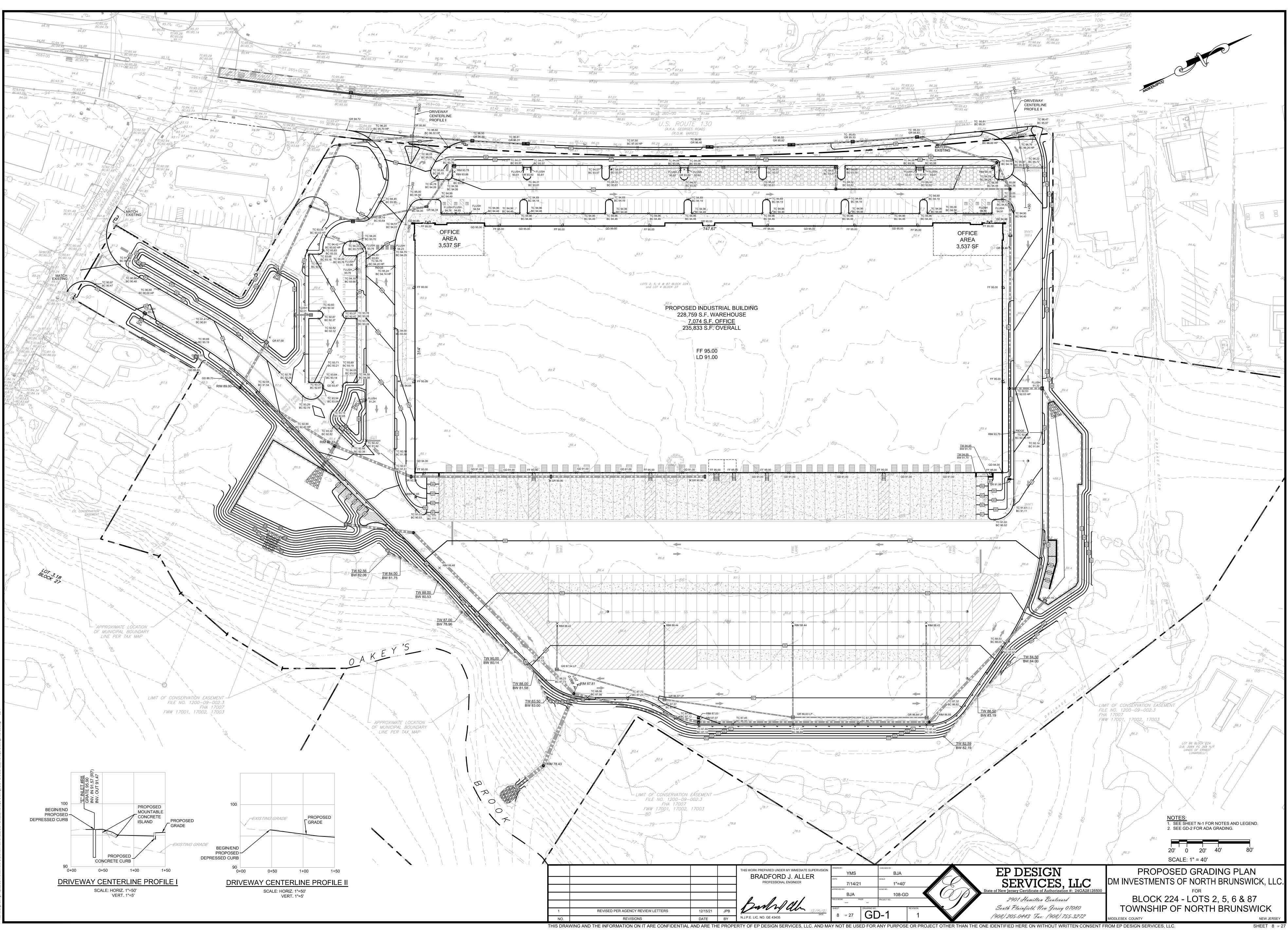


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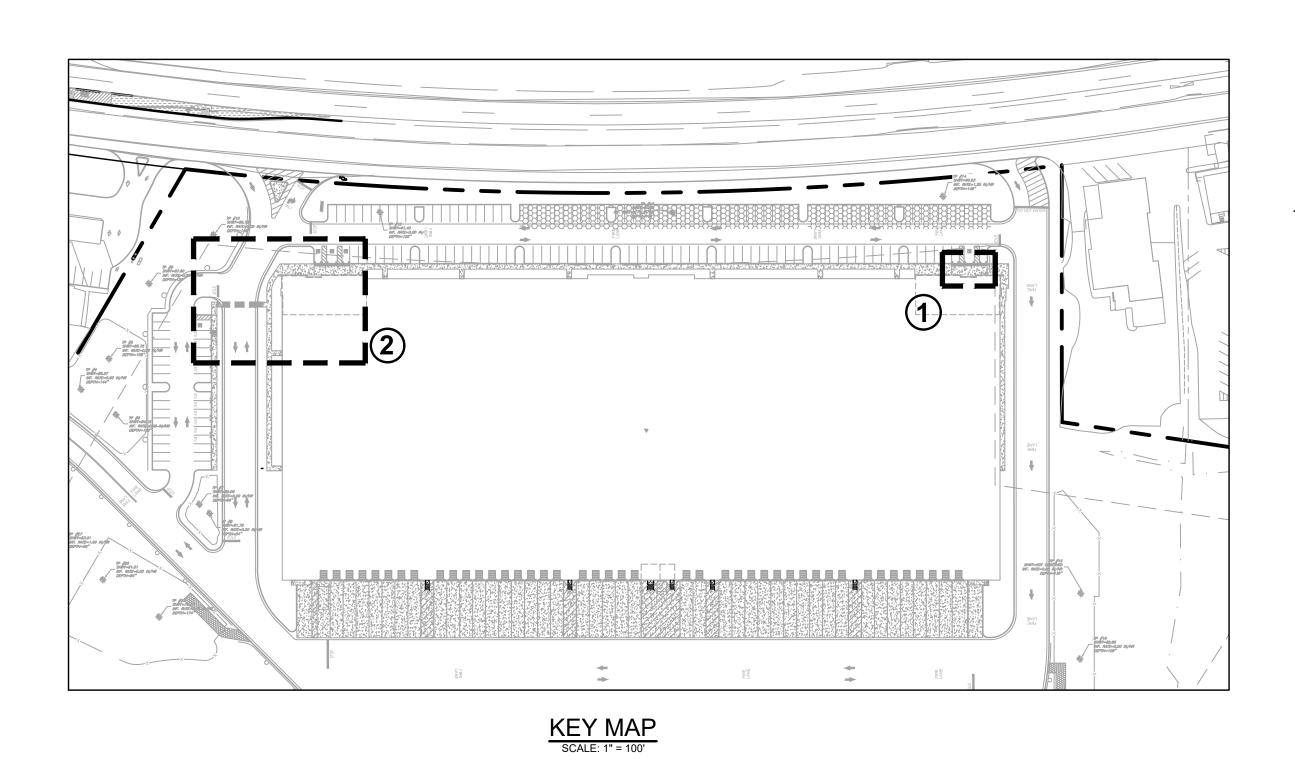




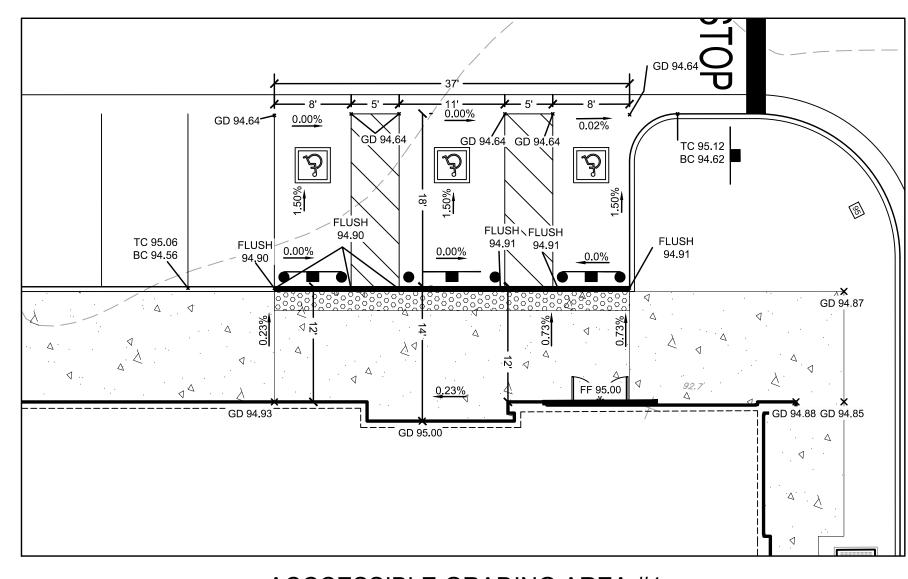
	UTILITY CROSSING SCHEDULE								
CROSSING	SSWR ELEVATION	PIPE DIAMETER	STORM ELEVATION	PIPE DIAMETER	SEPARATION				
1	80.73 T.O.P.	30"	84.88 B.O.P.	15"	4.15'				
2	85.06 T.O.P.	4"	85.40 B.O.P.	24"	0.34' (USE ENCASEMENT)				
3	87.11 T.O.P.	30"	88.69 B.O.P.	24"	1.58'				
4	79.29 T.O.P.	4"	83.49 B.O.P.	24"	4.21"				

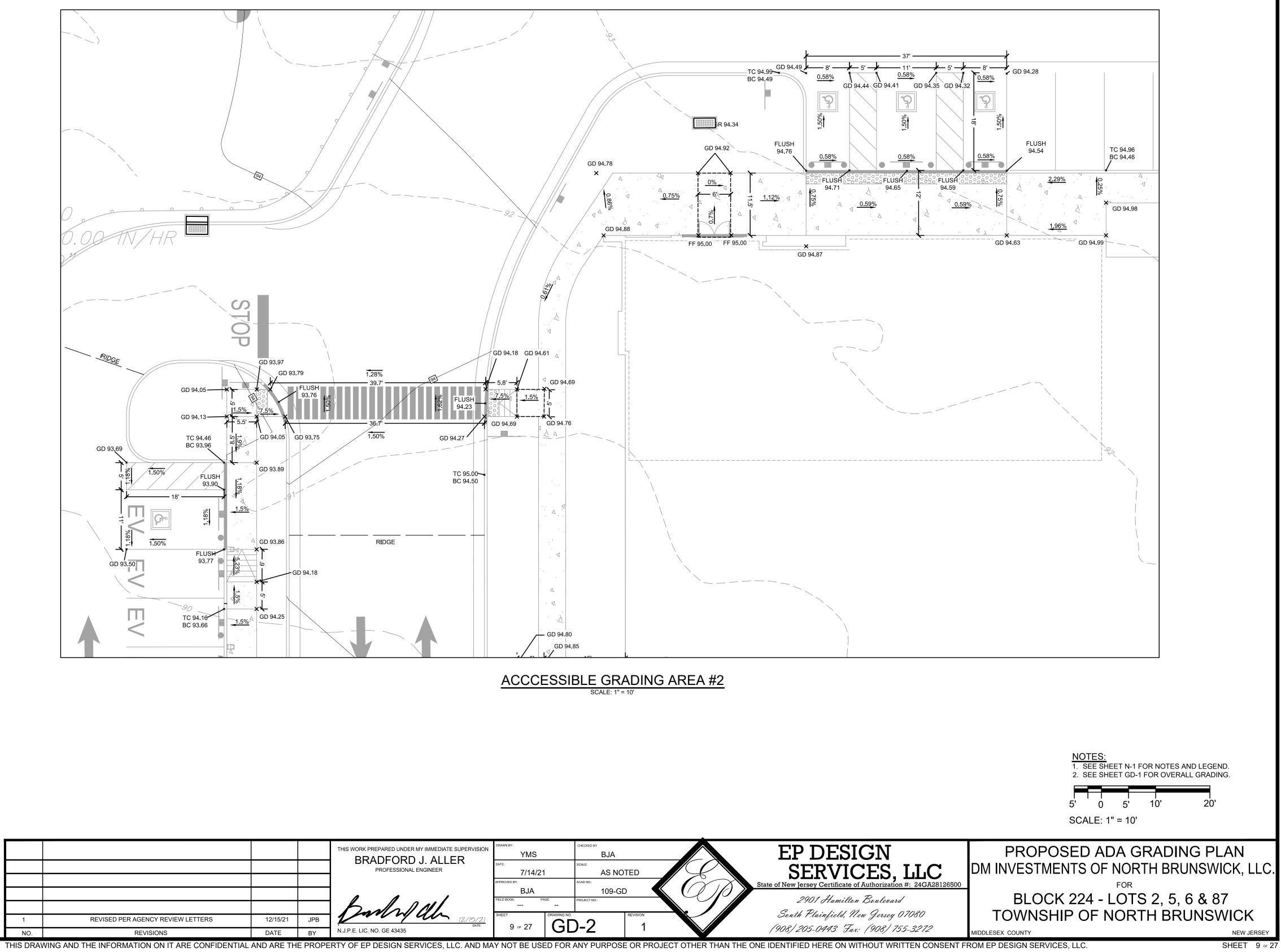


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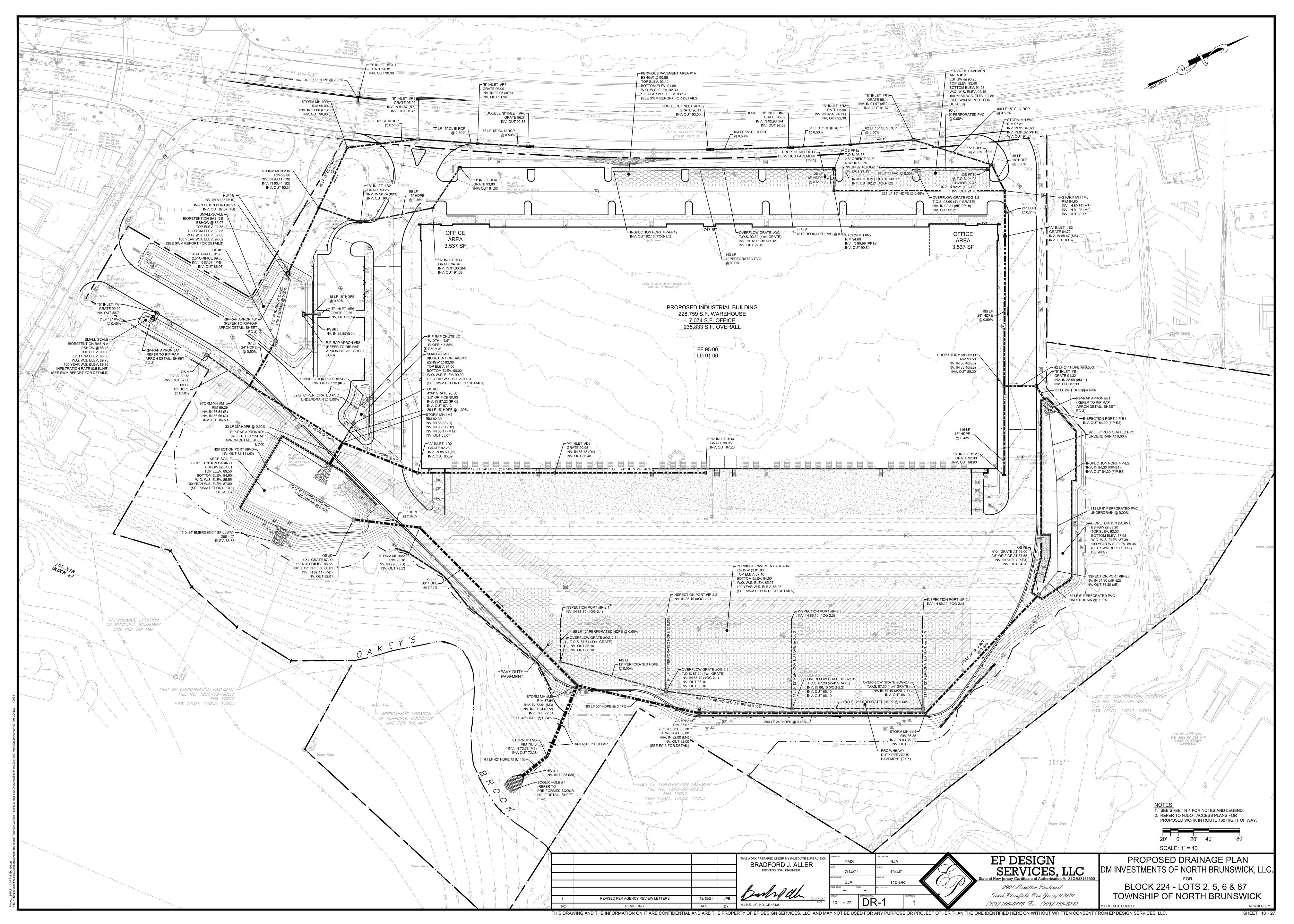


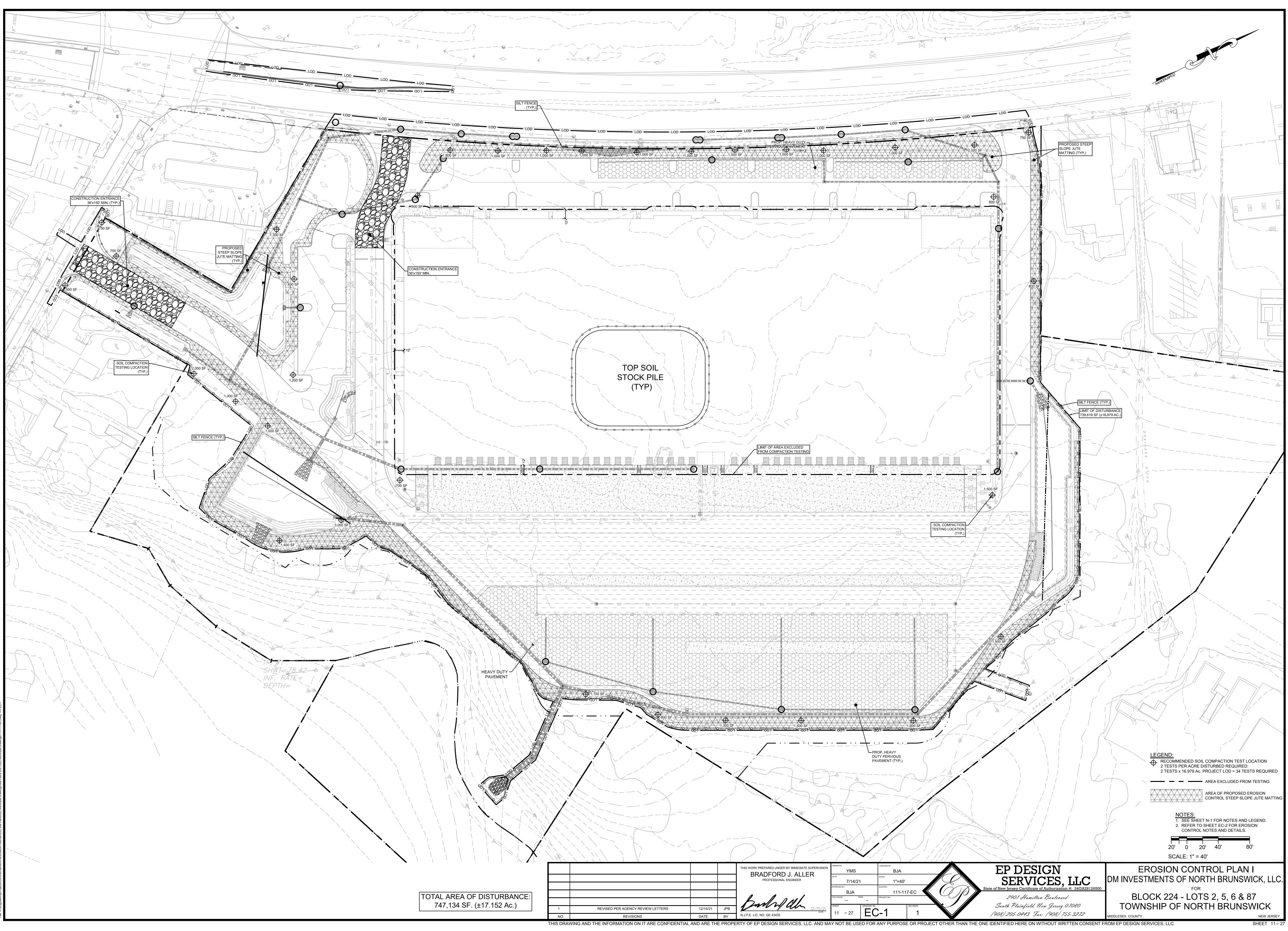


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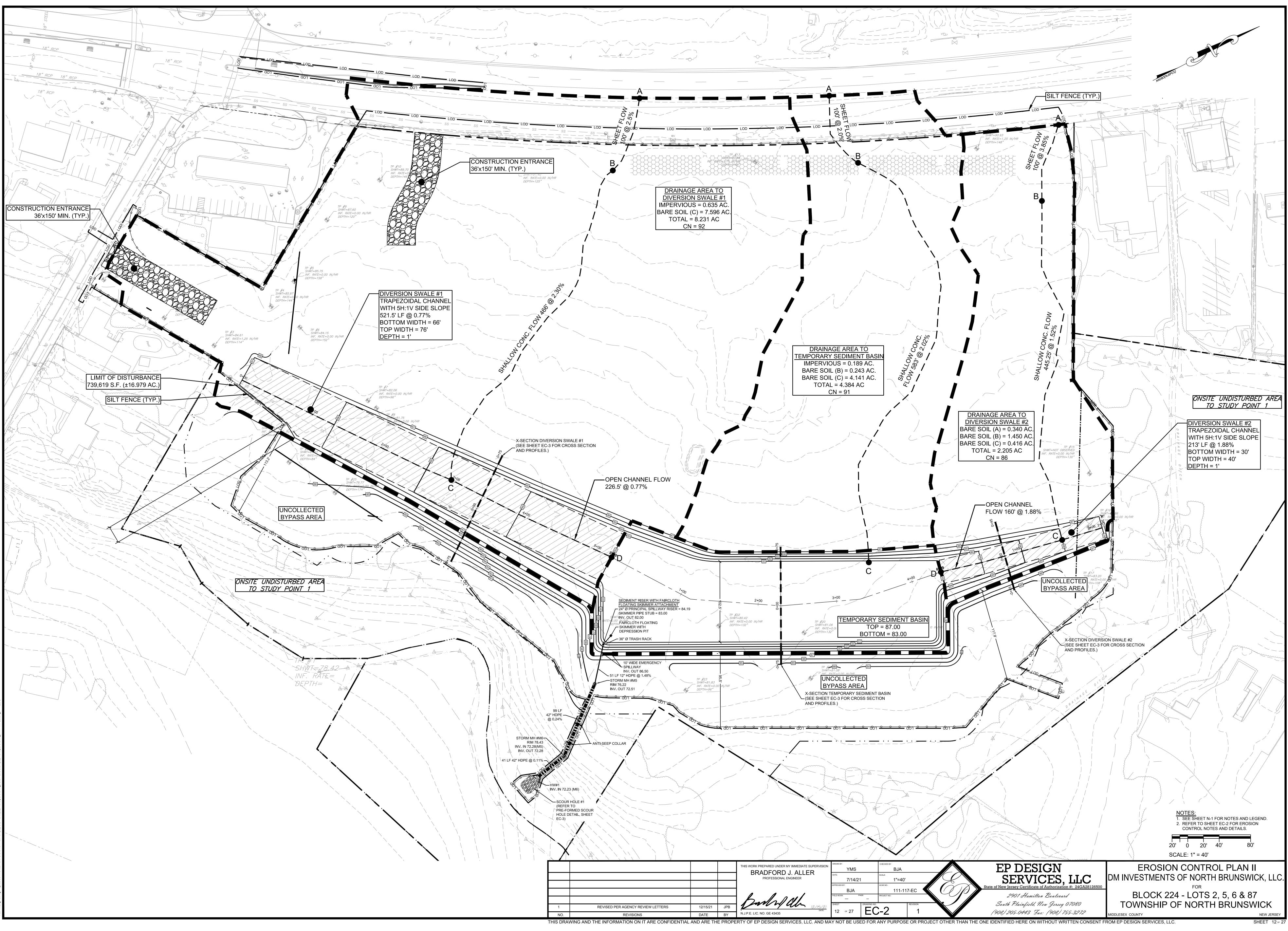




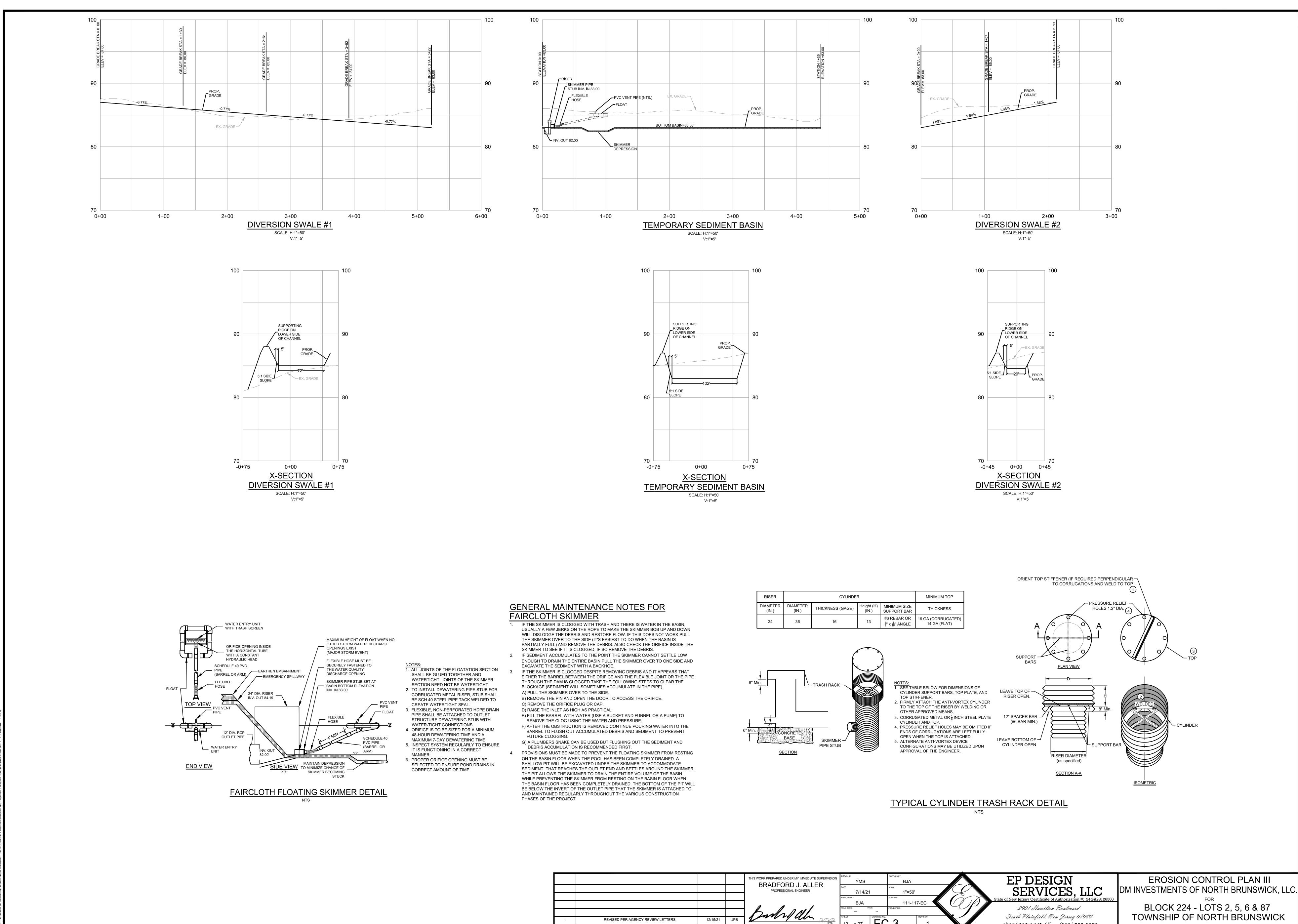


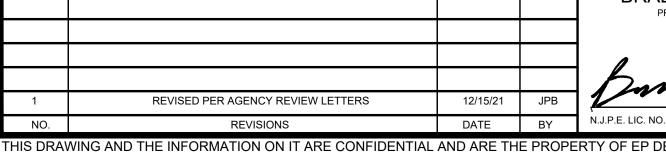


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### **EROSION AND SEDIMENT CONTROL NOTES**

- 1. THE FREEHOLD SOIL DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
- 2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 3. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- 4. N.J.S.A. 4:24-39 et. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINE THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY- LOT OR SECTION-BY-SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2-1/2 TONS PER ACRE, ACCORDING TO THE STANDARD FOR STABILIZATION WITH MULCH ONLY.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (i.e. SOIL STOCKPILE, STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR IN ACCORDANCE WITH STATE STANDARDS.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF PRELIMINARY GRADING.
- 8 THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED. INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1"-2") STONE FOR A MINIMUM LENGTH OF TEN (10) FEET EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
- 9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY
- 10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
- 11. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF SOIL WILL NOT PROVIDE SUITABLE CONDITIONS. NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCTION SOILS, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ. FT. OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A pH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE TO BE PLANTED.
- 13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM **BECOMING OPERATIONAL.**
- 14. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.
- 15. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY. THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
- 16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED.
- 17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
- 18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

### **GENERAL NOTES**

- 1. PROPERTY OWNER TO BE RESPONSIBLE FOR BASIN MAINTENANCE
- 2. DISTURB AS LITTLE AREA AS POSSIBLE WHEN EXCAVATING FOR ANY FOUNDATIONS AND STORING TOPSOIL 3. PLACE TOPSOIL AND EXCAVATION MATERIAL FROM FOUNDATIONS ON DOWNHILL SIDE OF LOT WHENEVER POSSIBLE TO TRAP RUNOFF FROM SCALPED AREAS.
- 4. ALL DISTURBED AREAS THAT ARE NOT BEING GRADED, UNDER ACTIVE CONSTRUCTION, OR TO BE PERMANENTLY SEEDED WITHIN 30 DAYS MUST BE STABILIZED BY TEMPORARY SEEDING OR MULCHING AS PER SPECIFICATIONS BELOW. ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED WILL BE SEEDED WITHIN 10 DAYS OF FINAL GRADING. COMPLETE PERMANENT SEEDING AS PER SPECIFICATIONS BELOW.
- 6. MULCH SHALL BE PROVIDED FOR TEMPORARY AND PERMANENT SEEDING. UNROTTED SMALL GRAIN STRAW OR SALT HAT WILL BE APPLIED AT THE RATE OF (1-1/2 TO 2) TONS PER ACRE (90-115) POUNDS PER 1000 SQFT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED AS COMPLIANCE WITH THIS MULCHING REQUIREMENT.
- MULCH ANCHORING WILL BE ACCOMPLISHED IMMEDIATELY AFTER MULCHING TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE METHODS (CRIMPING, LIQUID MULCH BINDERS, NETTING TIE DOWN, ETC.) IN THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY".
- 8. NO EXCESS FILL MATERIAL SHALL BE REMOVED FROM THE SITE. 9. NO STUMPS OR DEBRIS SHALL BE BURIED ON SITE. THIS MATERIAL SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH THE APPLICABLE REGULATIONS.
- 10. THE CONTRACTOR SHALL MINIMIZE THE TRACKING OF MUD ONTO PAVED AREAS. SOIL TRACKED ONTO PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR PROMPTLY SO AS TO PREVENT TRACKING OF MUD ONTO SOMERSET STREET.
- 11. ALL STANDARDS IN ACCORDANCE WITH THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" TO APPLY

### SOIL DE-COMPACTION AND TESTING REQUIREMENTS

- A. SOIL COMPACTION REQUIREMENTS.
- 1. SUBGRADE SOILS <u>PRIOR TO THE APPLICATION OF TOPSOIL</u> (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. 2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN. . COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN HALL BE USED TO MARK LOCATIONS OF TESTS AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE
- FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT. 4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL
- DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.
- COMPACTION TESTING METHODS.
- 1. PROBING WIRE TEST (SEE DETAIL). 2. HAND HELD PENETROMETOR TEST (SEE DETAIL)
- 3. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED) 4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED).
- 5. NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL. 6. DETAILED REQUIREMENTS FOR EACH COMPACTION TESTING METHOD CAN BE FOUND IN SECTION 19-1, STANDARD FOR LAND GRADING, OF THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION. 7. SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION [SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR] IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.
- C. PROCEDURES FOR SOIL COMPACTION MITIGATION

1. PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER 2. RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED. SUBJECT TO DISTRICT APPROVAL

### **BIORETENTION BASIN SOIL BED REQUIREMENTS.**

- 1. THE SOIL BED MUST BE A MINIMUM OF 18 24 INCHES IN DEPTH, IN ACCORDANCE WITH THE TABLE ON PAGE 4, CHAPTER 9.1 OF THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL
- 2. THE SOIL BED MATERIAL MUST CONSIST OF THE FOLLOWING MIX, BY WEIGHT: 85 TO 95% SAND, WITH NO MORE THAN 25% OF THE SAND AS FINE OR VERY FINE SANDS; NO MORE THAN 15% SILT AND CLAY WITH 2% TO 5% CLAY CONTENT. THE ENTIRE
- MIX MUST THEN BE AMENDED WITH 3 TO 7% ORGANICS, BY WEIGHT. PRE-MIXED SOIL MUST BE CERTIFIED TO BE CONSISTENT WITH THE REQUIREMENT ABOVE BY EITHER THE VENDOR OR BY A
- PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY. THE CONTENT OF ANY SOIL MIXED ON-SITE MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY; IN ADDITION, THE ENGINEER MUST BE PRESENT WHILE THE SOIL IS MIXED. 4. THE PH OF THE SOIL BED MATERIAL MUST RANGE FROM 5.5 TO 6.5.
- 5. THE SOIL BED MATERIAL MUST BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES. ADDITIONAL MATERIALS MAY BE NECESSARY TO ACCOUNT FOR SETTLING OVER TIME.

### **GENERAL MAINTENANCE NOTES FOR TEMPORARY SEDIMENT BASIN**

- REPAIRED AS NEEDED.
- DESIGN FUNCTION.
- APPLICABLE LOCAL, STATE AND FEDERAL WASTE REGULATIONS.
- ICE, COMPOST, OR ANY OTHER MATERIAL WHEN IT HAS REACHED A DEPTH OF <sup>1</sup>/<sub>2</sub> THE BARRIER HEIGHT.
- SEDIMENT REMOVAL
- DEVELOP IN THE AREA RECEIVING THE BASIN DISCHARGE.
- STORM SEWER SYSTEMS.

# **DIVERSION SWALE NOTES:**

- SHALL NOT EXCEED 4:1 HORIZONTAL TO VERTICAL.

# SUGGESTED SEEDING MIXTURES

- **TEMPORARY SEEDING** LIME: 2 TONS/ACRE GROUND LIMESTONE FERTILIZER: 500 LBS. PER ACRE 10-20-10 TEMPORARY SEEDING TO BE NOT LESS THAN ONE POUND OF PERENNIA
- RYEGRASS PER 1000 SQ. FT. LIME: 3 TONS/ACRE GROUND LIMESTONE FERTILIZER: 600 LBS. PER ACRE 10-20-10

### GENERAL RECOMMENDATION. OTHER SEEDINGS CAN BE USED. PERMANENT SEEDING

# LIME: 3 TONS/ACRE GROUND LIMESTONE

FERTILIZER: 600 LBS. PER ACRE 10-20-10

PER ACRE. OTHER SEEDINGS ARE ACCEPTABLE PROVIDED THEY ARE ADAPTABLE TO THE AREA AND ARE PERENNIAL. DATE & RATE OF APPLICATION ACCORDING TO STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL IN NEW JERSEY.

# PERMANENT SEEDING (LAWN AREAS)

LIME: 3 TONS/ACRE GROUND LIMESTONE INCORPORATED 6 INCHES IN TO THE SOIL. FERTILIZER: 600 LBS. PER ACRE 10-20-10 INCORPORATED 6 INCHES IN TO THE SOIL, 400 LBS./ACRE 10-10-10 INCORPORATED 2 INCHES IN TO THE SOIL AT LAST RAKING. SEED: DATES 3/15 - 5/31 & 8/1 - 10/1 -265 LBS OF TALL FESCUE, 20 LBS. OF KY. BLUEGRASS (BLEND) & 20 LBS OF PERENNIAL RYEGRASS / ACRE FOR OTHER ACCEPTABLE MIXTURES SEE STANDARDS FOR SOIL EROSION & SEDIMENTATION CONTROL IN NEW JERSEY.

# DETENTION/SEDIMENT BASIN SEEDING

KENTUCKY BLUEGRASS, 45 LBS. PER ACRE TALL FESCUE, 22 LBS PER ACRE SEED: DATES 2/1 - 4/30 & 8/15 - 10/30

### SEQUENCE OF CONSTRUCTION **PRE-CONSTRUCTION**

- OF CONSTRUCTION OF ANY IMPROVEMENTS.
- 48 HOURS PRIOR TO ANY LAND DISTURBANCE.

### CONSTRUCTION 1. INSTALLATION OF ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO ANY MAJOR SILT DISTURBANCE AND MAINTAIN UNTIL PERMANENT PROTECTION ARE ESTABLISHED.

- STATE
- FENCE.
- CLEANOUT LEVEL
- 6. BEGIN BUILDING CONSTRUCTION.
- 7. REMOVE SEDIMENT BASIN
- INSTALLED AFTER STORM SEWER INSTALLATION.
- DONE PRIOR TO PLACEMENT OF TOP SOIL
- 12. INSTALL CURBS.
- 14. INSTALL SIDEWALKS.

SEDIMENT BASIN TO BE INSPECTED WEEKLY AT MINIMUM AND AFTER EACH 0.5-INCH OR GREATER RAINFALL EVENT AND REPAIRED IMMEDIATELY. IT IS RECOMMENDED THAT BASINS BE INSPECTED PRIOR TO FORCASTED RAIN EVENTS, DAILY DURING RAIN EVENTS, AND AFTER TO CONCLUSION OF EACH RAIN EVENT. IN ADDITION TO EVALUATING SEDIMENT LEVELS, INSPECTIONS WILL EVALUATE EMBANKMENT FOR SIGNS OF SEEPAGE, SETTLEMENT, SLUMPING, AND OVERALI STRUCTURAL SOUNDNESS. INLET AND OUTLET STRUCTURES AND SPILLWAYS ARE TO BE INSPECTED FOR ANY DAMAGE OR OBSTRUCTIONS AND SHOULD BE

### SEDIMENT REMOVAL SHOULD TAKE PLACE WHEN SEDIMENT ACCUMULATES TO THE CLEAN OUT LEVEL (50% OF WET STORAGE DEPTH DESIGN VOLUME). DURING SEDIMENT CLEANOUT. TRASH AND OTHER DEBRIS SHOULD BE REMOVED FROM THE BASIN, DEWATERING DEVICE, AND RISER STRUCTURE. SEDIMENT REMOVAL SHALL BE COMPLETED WITH 72 HOURS OR WHEN ALL RUNOFF HAS DRAINED FROM THE PLANTING BED AND THE BASIN IS DRY. SEDIMENT BASIN TO BE RESTORED TO

THE ORIGINAL DESIGNED OR EXCAVATED GRADE AS NECESSARY TO RESTORE THE DISPOSAL OF DEBRIS, TRASH, SEDIMENT AND OTHER WASTE MATERIAL MUST BE DONE AT SUITABLE DISPOSAL/RECYCLING SITES AND IN COMPLIANCE WITH ALL

5. STORMWATER BMPS MAY NOT BE USED FOR STOCKPILING OF PLOWED SNOW AND 6. SEDIMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BARRIER

REPAIR OR REPLACE BARRIER (FABRIC, POSTS, BALES ETC.) WHEN DAMAGED. 8. BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND

### 9. A FLOCCULENT SUCH AS "PAM" (POLYACRYLAMIDE) MAY BE ADDED TO THE BASIN IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO REMOVE FINE SUSPENDED COLLOIDAL MATERIAL PRIOR TO DEWATERING, ALL DEWATERING DISCHARGES MUST BE TO A STABILIZED LOCATION. A SOURCE OF FREE CATIONIC IONS (SUCH AS CA 2+) MAY BE REQUIRED AT A RATE OF 50- 60 GM CA2+ /KG PAM TO ENCOURAGE BONDING BETWEEN COLLOIDS AND PAM. MATERIALS SUCH AS LIME. CACL. GYPSUM OR FLYASH MAY BE USED TO PROVIDE THE CATION COMPONENT THE FLOCCULENT SHALL NOT CAUSE ADVERSE ENVIRONMENTAL CONDITIONS TO

10. FLOCCULENT MAY BE ADDED THROUGH THE USE OF 'LOGS' OR SIMILAR DEVICES IMPREGNATED WITH PAM TO DOSE INFLOW WATER PRIOR TO ENTRANCE TO THE SEDIMENT BASIN. SUCH DEVICES SHALL BE PLACED TO ALLOW COMPLETE PASSAGE OF THE DESIGN STORM AND SHALL NOT OBSTRUCT FLOW THROUGH

1. THE SUPPORTING RIDGE ON THE LOWER SIDE OF THE PROPOSED CHANNEL IS TO HAVE A MINIMUM WIDTH OF 4-FEET AT THE DESIGN WATER ELEVATION. THE SIDE SLOPES OF THE DIVERSION SWALES AND THE SUPPORTING RIDGES

SEED: DATE & RATE OF APPLICATION ACCORDING TO STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL IN NEW JERSEY.

### PERMANENT SEEDING (STEEP BANKS)

SEED: DATES 3/15-5/31 AND 8/1-10/10 - 265 LBS. OF TALL FESCUE 20 LBS. OF PERENNIAL RYEGRASS PER ACRE. THIS IS A

(ROAD R.O.W. AND NON-LAWN AREAS)

# TEMPORARY STABILIZATION WITH MULCH ONLY

STRAW MULCH OR EQUIVALENT SPREAD UNIFORMLY AT THE RATE OF 1-1/2 TO 2 TONS/ACRE (TOTAL GROUND SURFACE COVERAGE). THIS PRACTICE IS APPLICABLE

IN AREAS WHERE THE SEASON OR OTHER CONDITIONS MAY NOT BE SUITABLE FOR ESTABLISHING VEGETATIVE COVER. MULCH ONLY IS TO BE USED ONLY FOR SHORT PERIODS AND WILL REQUIRE MAINTENANCE AND RENEWAL.

1. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE TOWN ENGINEER PRIOR TO COMMENCEMENT

2. THE CONTRACTOR SHALL NOTIFY THE FREEHOLD COUNTY SOIL CONSERVATION DISTRICT IN WRITING AT LEAST

2. INSTALL 2 # STONE STABILIZED CONSTRUCTION ENTRANCE. CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE PROPOSED. ALL REMAINING AREAS TO BE PROPERLY INSPECTED AND ARE TO REMAIN IN THEIR NATURAL

3. STRIP AND STOCKPILE TOPSOIL WHERE INDICATED ON THE PLAN. ENCIRCLE THE STOCKPILE WITH SILT FILTER

### 4. CONSTRUCT SEDIMENT BASIN, SEDIMENT BASIN RISER AFFIXED TO OUTLET CONTROL STRUCTURE AND TEMPORARY DIVERSIONS. SEDIMENT REMOVAL SHOULD TAKE PLACE WHEN SEDIMENT ACCUMULATES TO

5. ROUGH GRADE SITE. STABILIZE DISTURBED AREA WITH PERMANENT SEEDING MIXTURE

### 8. CONSTRUCTION AND PERMANENT STABILIZATION OF ALL BIORETENTION AND SUBSURFACE BASINS INCLUDING THE CONSTRUCTION OF ALL RETAINING WALLS, FINAL OUTFALLS, RIPRAP CHUTES, . THE STORMWATER BASIN(S) MUST BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND MUST BE PERMANENTLY STABILIZED PRIOR TO THE ESTABLISHMENT OF IMPERVIOUS SURFACES AND PERVIOUS PAVEMENT.

9. CONSTRUCTION OF UTILITIES AND STORMWATER COLLECTION SYSTEM. INLET PROTECTION MUST BE

### 10. GRADE AND COMPACT DRIVEWAYS AND PARKING AREAS TO SUBGRADE.

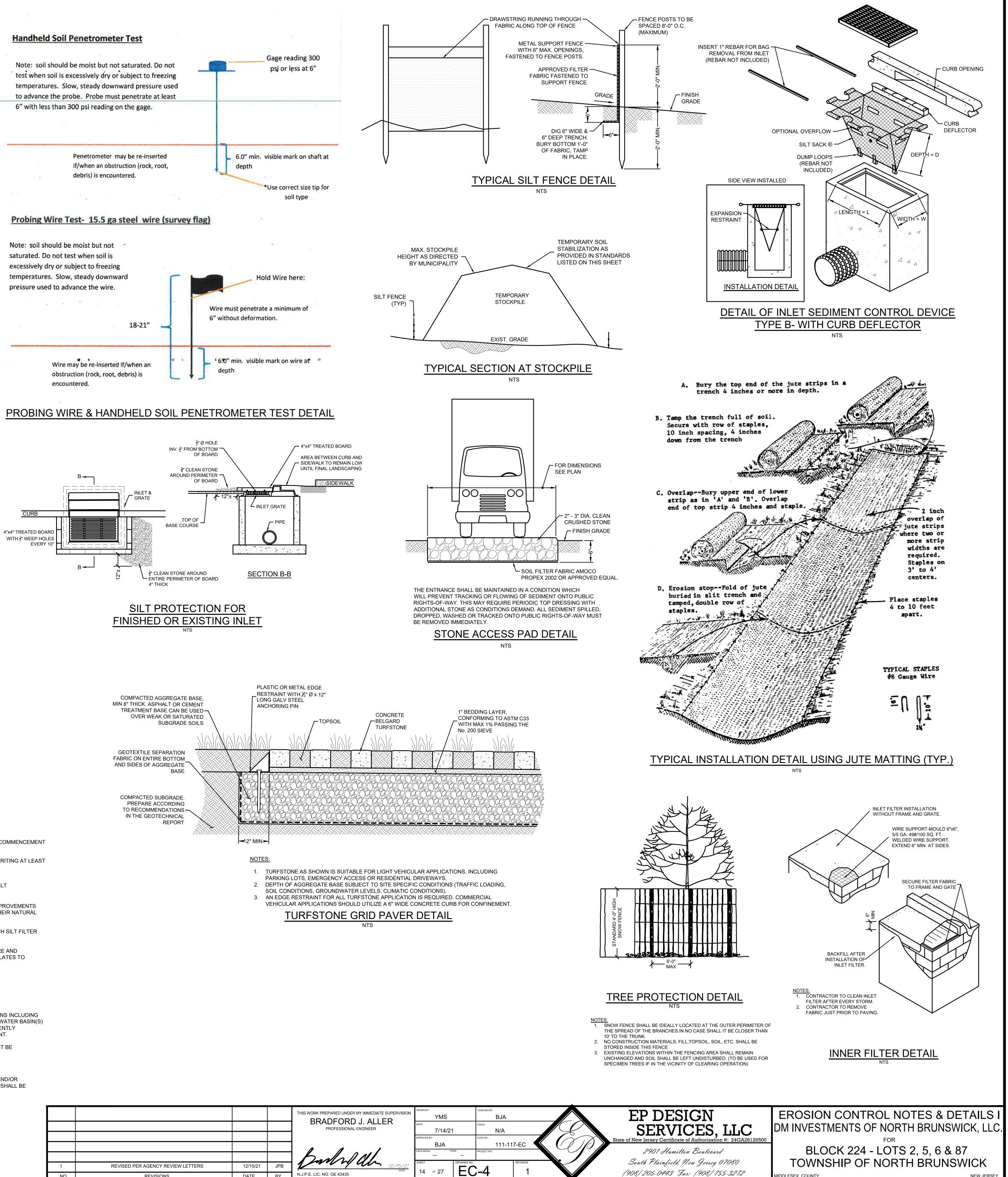
11. PERFORM SOIL COMPACTION TESTING AND/OR SUBSOIL COMPACTION REMEDIATION. TESTING AND/OR RESTORATION OF COMPACTED SOILS (THROUGH DEEP SCARIFICATION/TILLAGE - 6" MIN. DEPTH) SHALL BE

13. INSTALL SUB-BASE AND BASE COURSE FOR DRIVEWAYS AND PARKING AREAS.

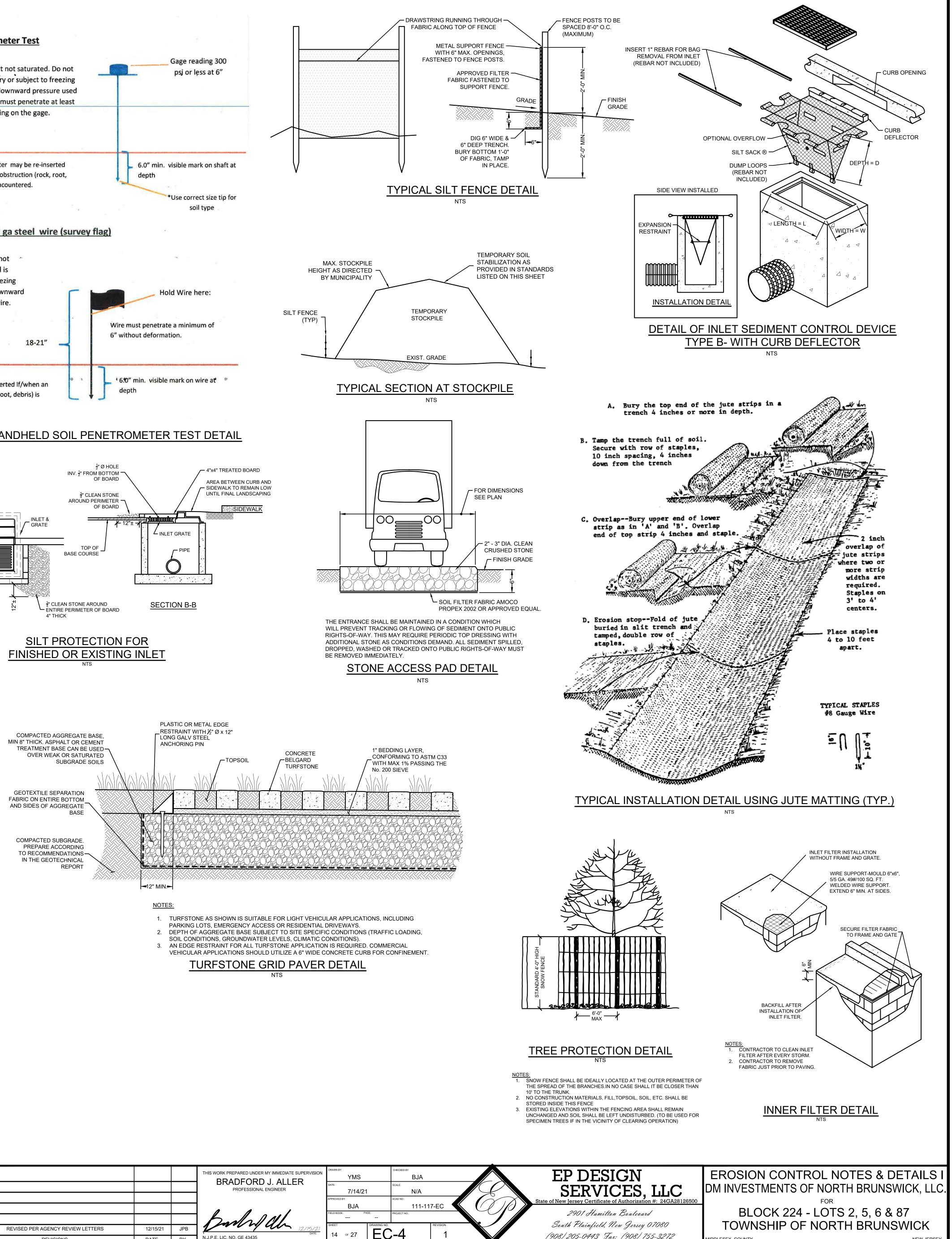
### 15. TOPSOIL AND SEED LAWN AREAS. INSTALL LANDSCAPING.

16. PERMANENT SEEDING STABILIZATION OF REMAINING DEVELOPMENT PERIMETER SLOPES. 17. REMOVE EROSION CONTROL MEASURES AFTER STABILIZATION HAS MATURED.

Handheld Soil Penetrometer Test	X.
Note: soil should be moist but not saturated. Do not test when soil is excessively dry or subject to freezing temperatures. Slow, steady downward pressure used to advance the probe. Probe must penetrate at least	Gage reading 300 psj or less at 6"
6" with less than 300 psi reading on the gage.	
Penetrometer may be re-inserted if/when an obstruction (rock, root, debris) is encountered.	6.0" min. visible mark on shaft depth
Duching Mine Test 15 5 sectoral using (surgery flag)	*Use correct size tip f soil type
Probing Wire Test- 15.5 ga steel wire (survey flag) Note: soil should be moist but not saturated. Do not test when soil is	
excessively dry or subject to freezing temperatures. Slow, steady downward pressure used to advance the wire.	Hold Wire here:
	/ire must penetrate a minimum of " without deformation.
Wire may be re-inserted lf/when an obstruction (rock, root, debris) is encountered.	* 6:0" min. visible mark on wire at * depth



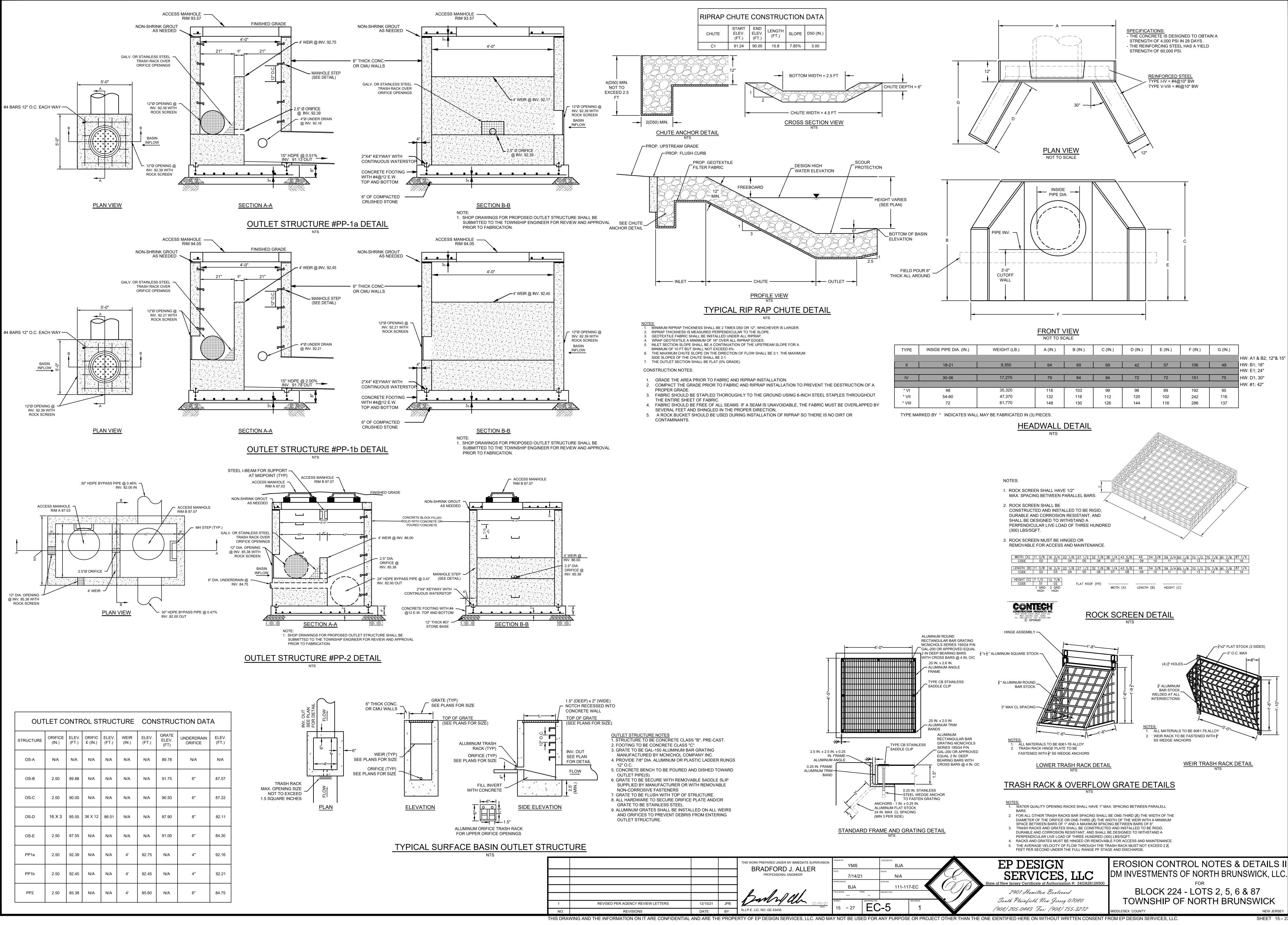


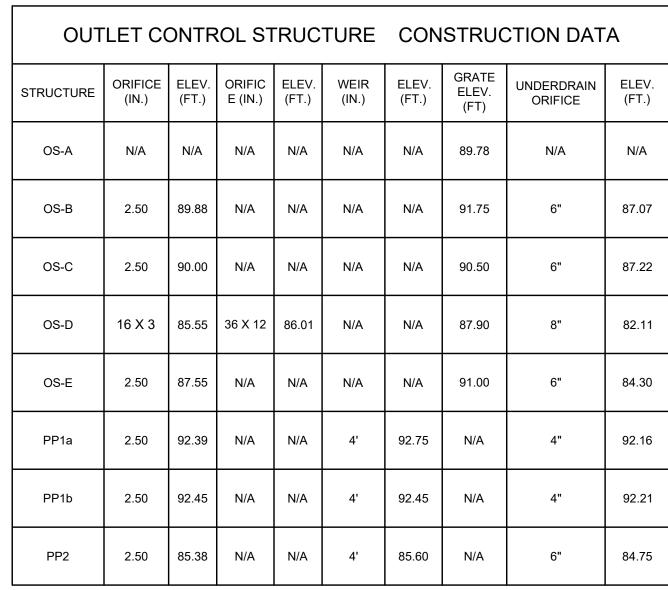


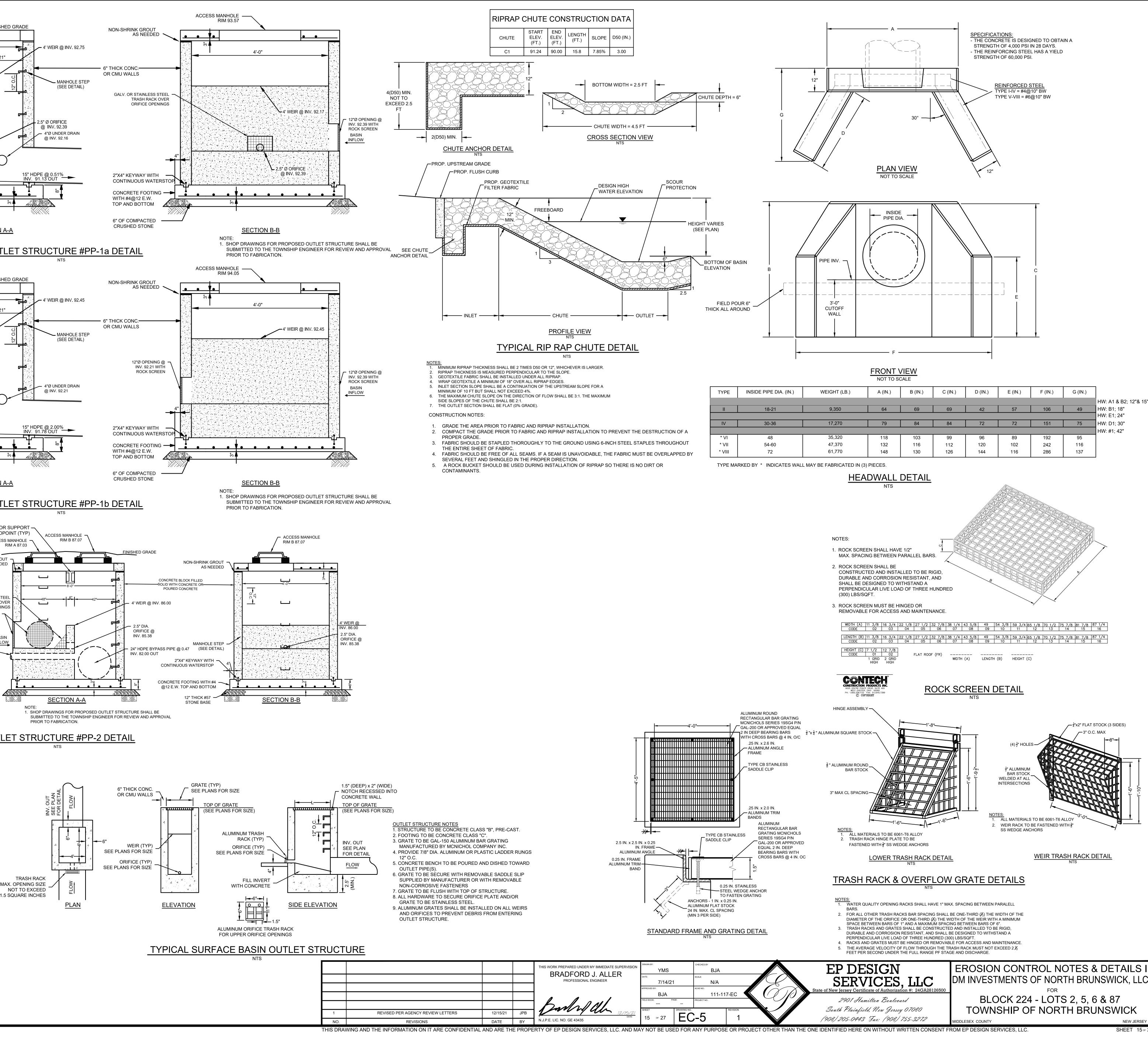
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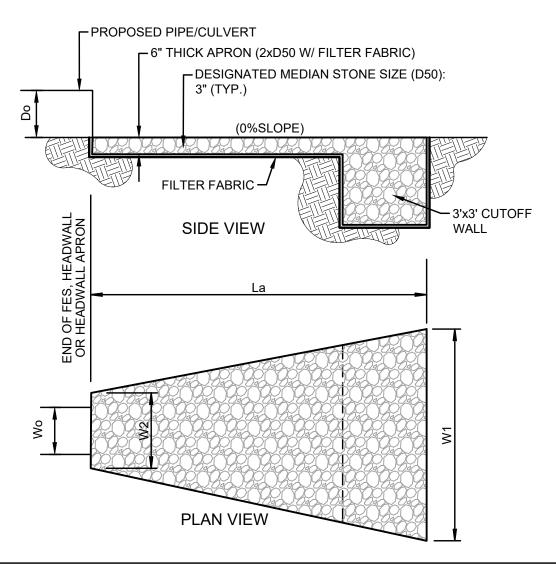
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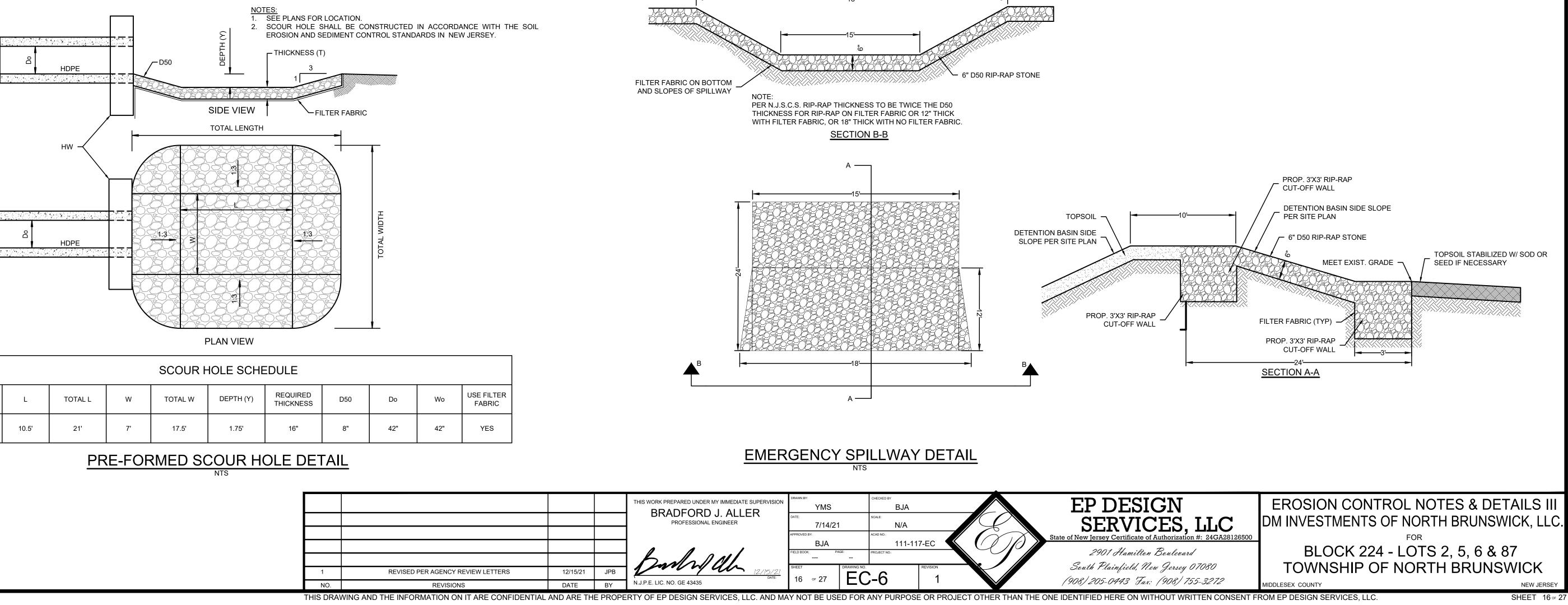


RIP RAP APRON SCHEDULE								
APRON #	La (FT)	W1 (FT)	W2 (FT)	REQUIRED THICKNESS (FT)	D50	Do	Wo	
A1	8	7	3	0'-6"	0'-3"	1.00	1.00	
B1	10	9	5	0'-6"	0'-3"	1.50	1.50	
B2	3	6	5	0'-6"	0'-3"	1.50	1.50	
D1	25	19	9	0'-6"	0'-3"	3.00	3.00	
E1	19	14	6	0'-6"	0'-3"	2.00	2.00	
	ТУПС							

SCOUR HOLE # HW1

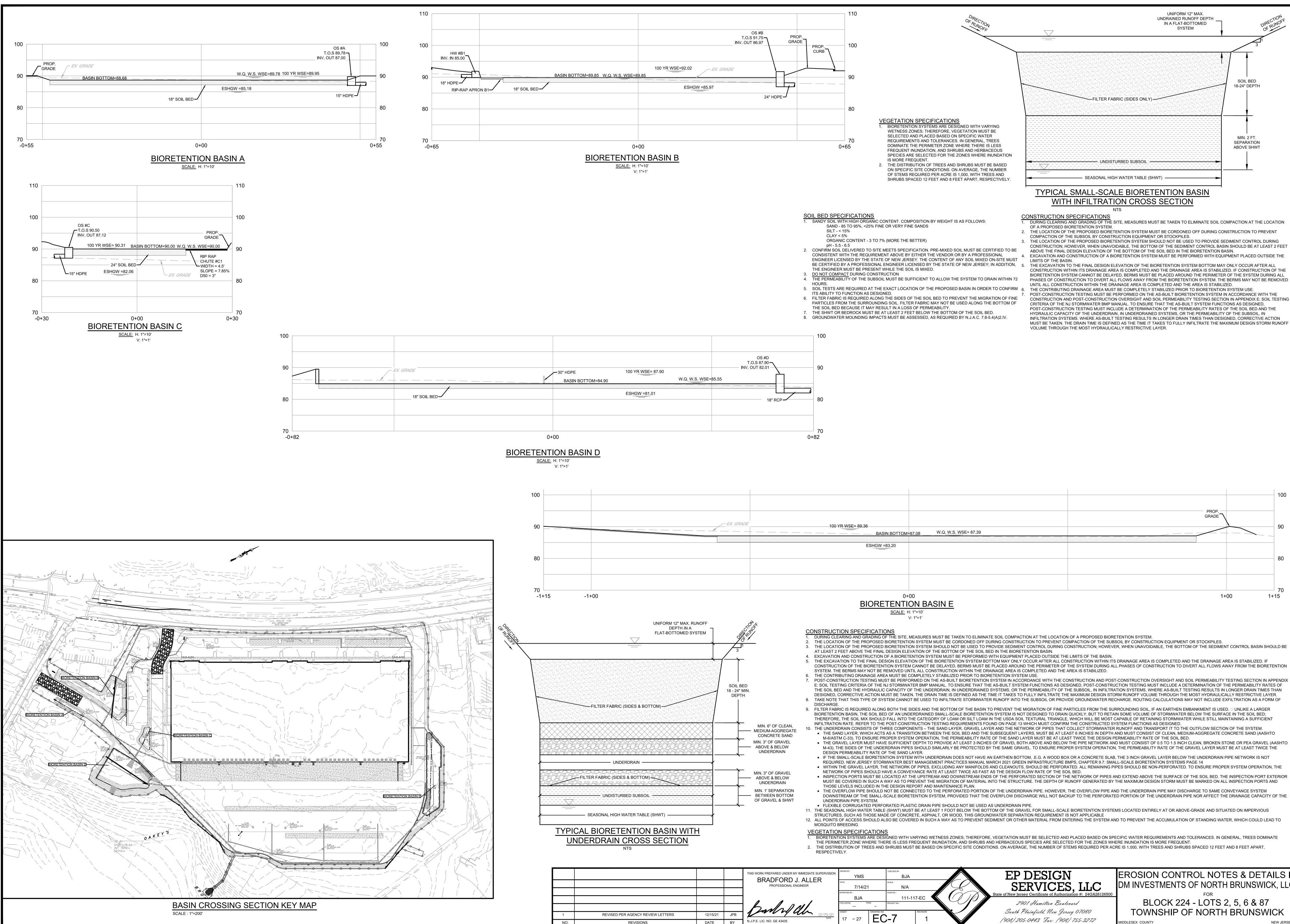
# TYPICAL RIP RAP DETAIL

<u>NOTES:</u>
1. SEE PLANS FOR LOCATION, WIDTH, LENGTH, THICKNESS AND STONE SIZE OF ALL PROPOSED RIP RAP APRONS.
2. RIP RAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL STANDARDS IN NEW JERSEY.



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# NEW JERSEY SHEET 16 ₀F 27



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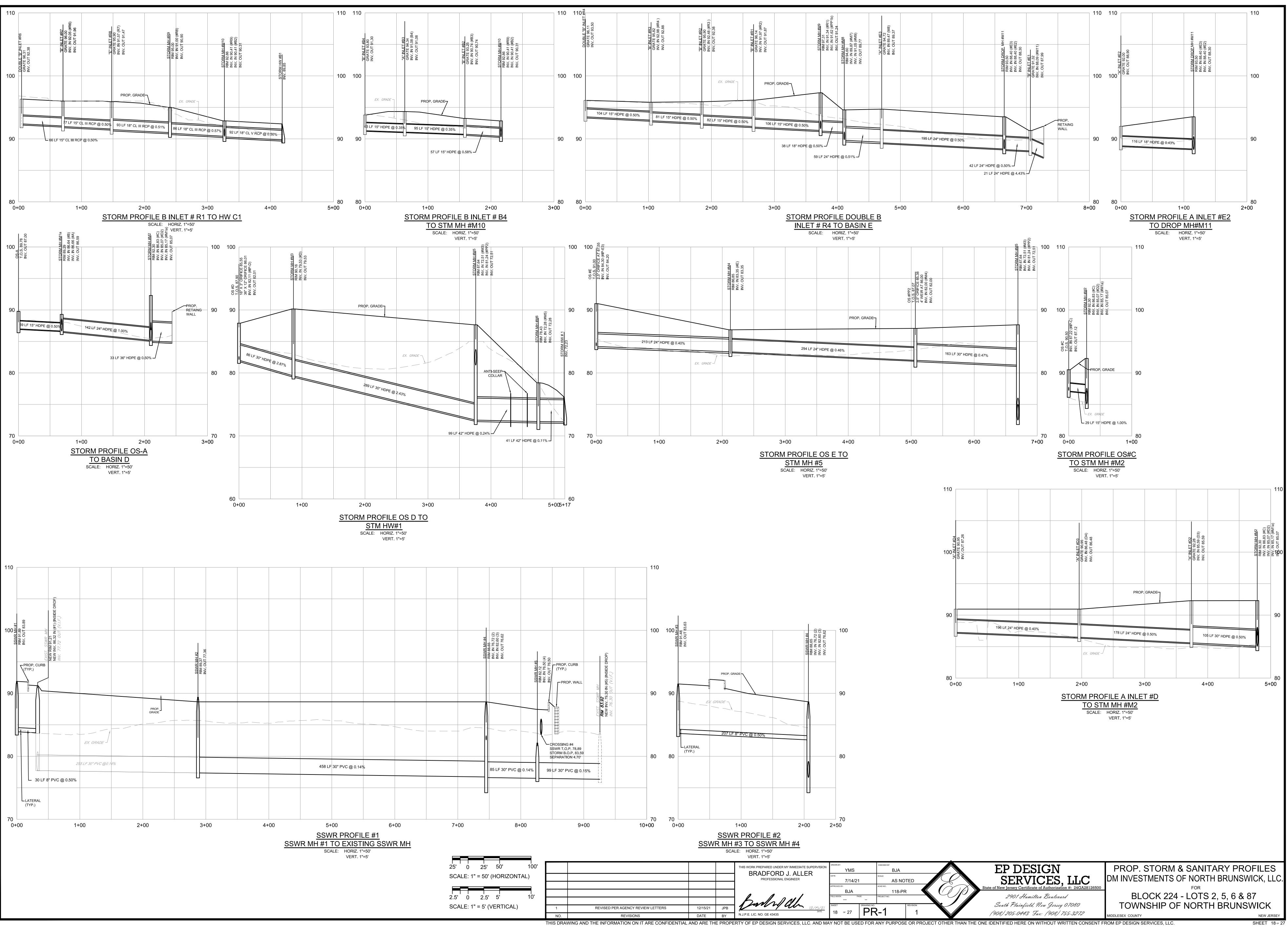
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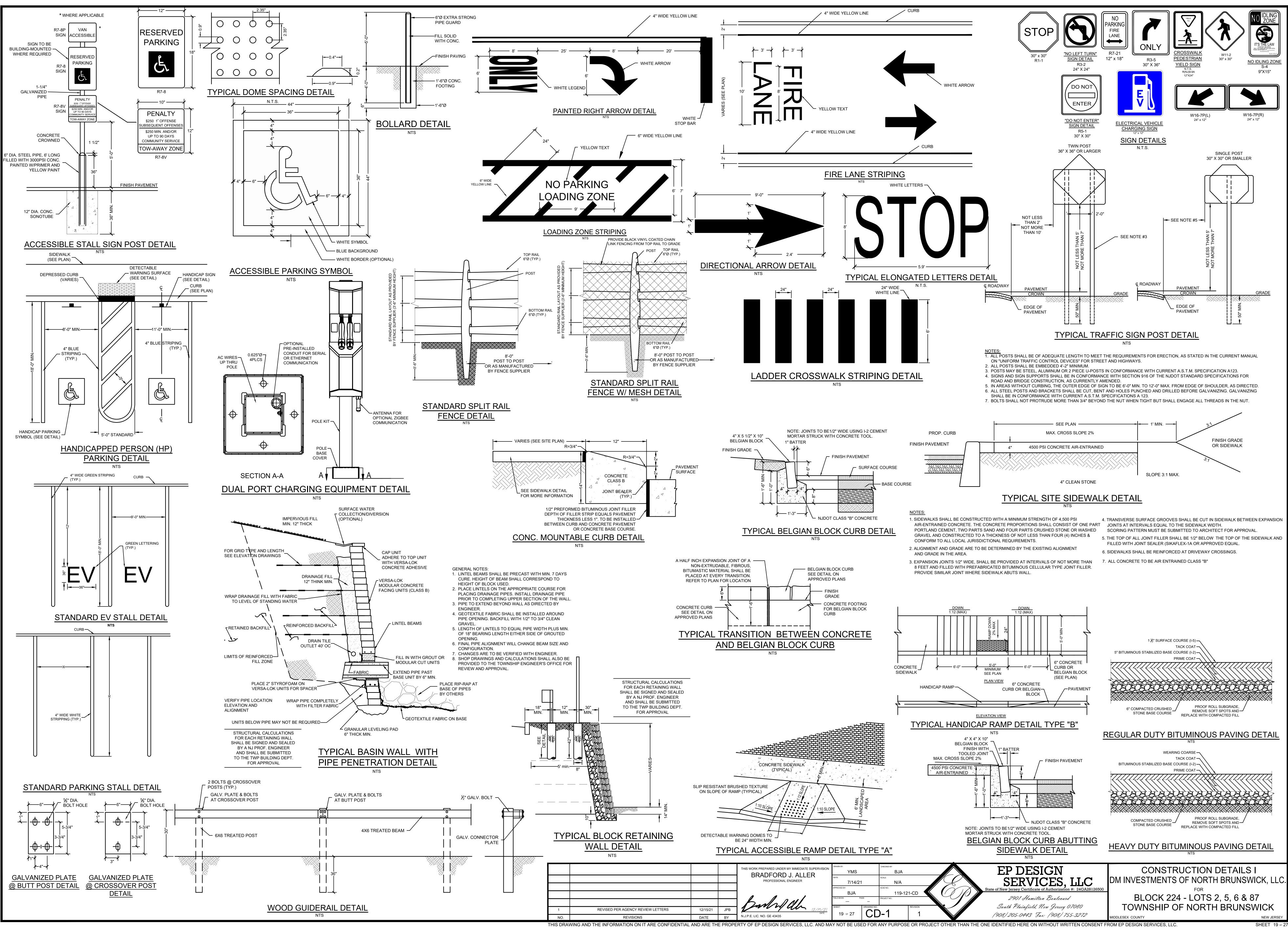
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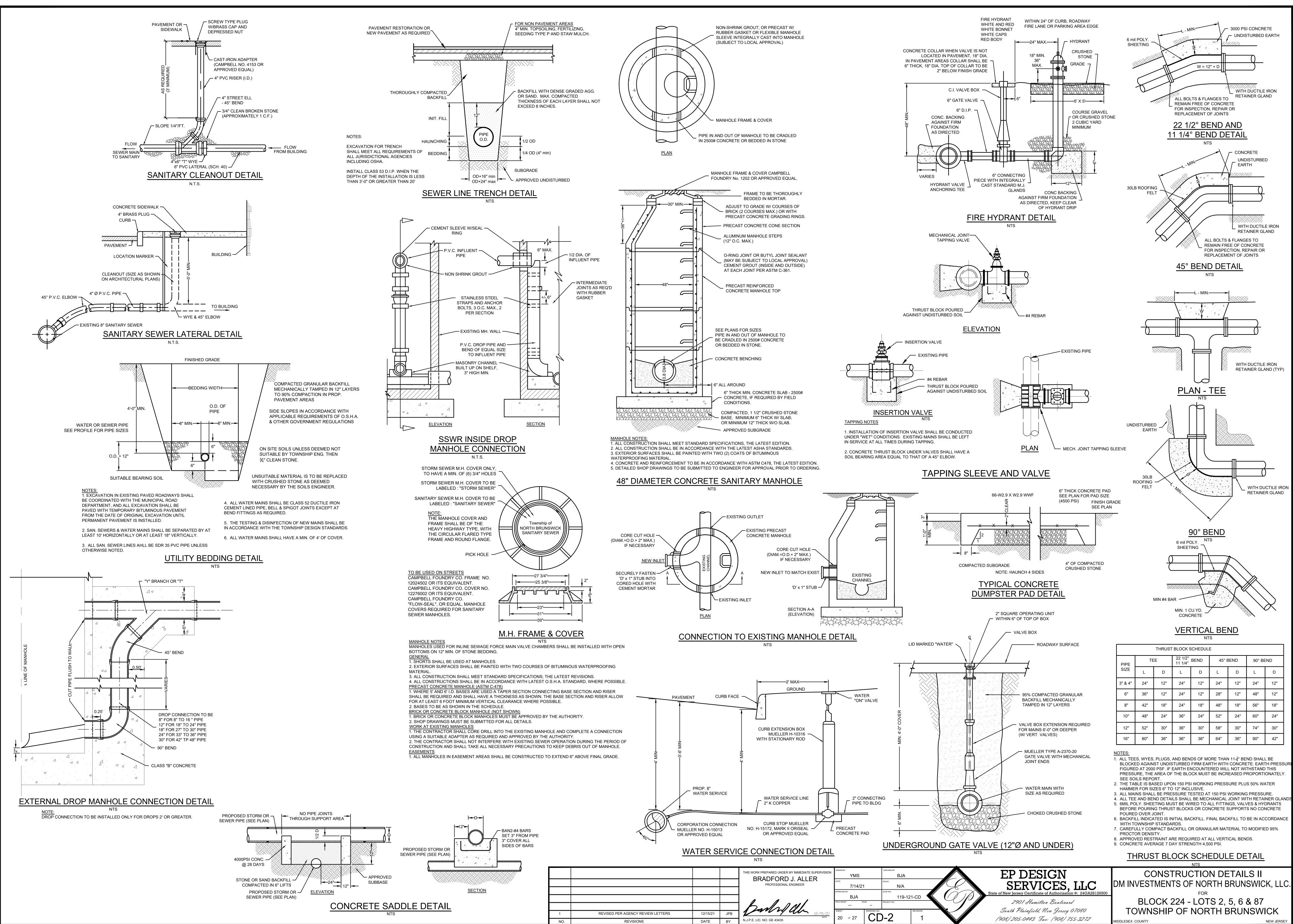
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**CONTROL NOTES & DETAILS IV** MENTS OF NORTH BRUNSWICK, LLC. ICES, LLC.

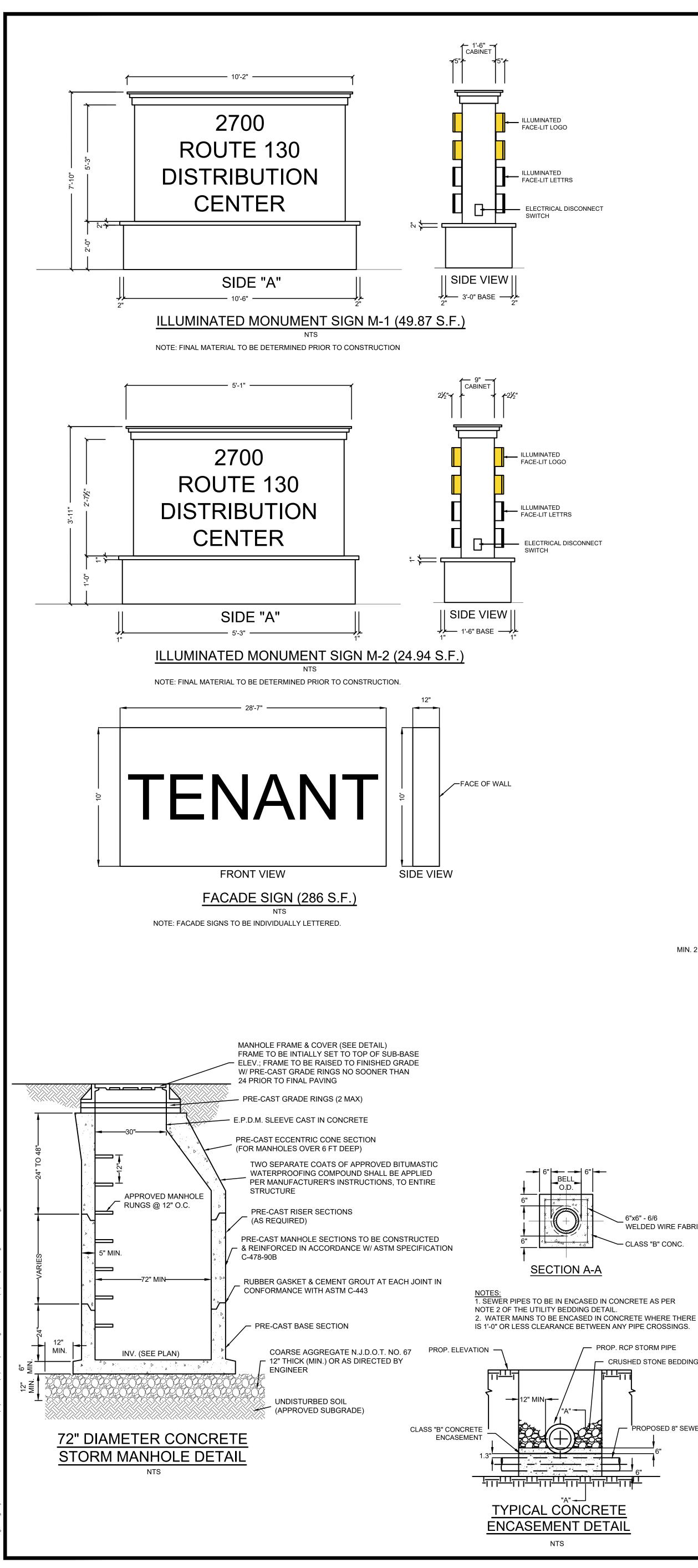
TO FULLY INFILTRATE THE MAXIMUM DESIGN STORM RUNOFF

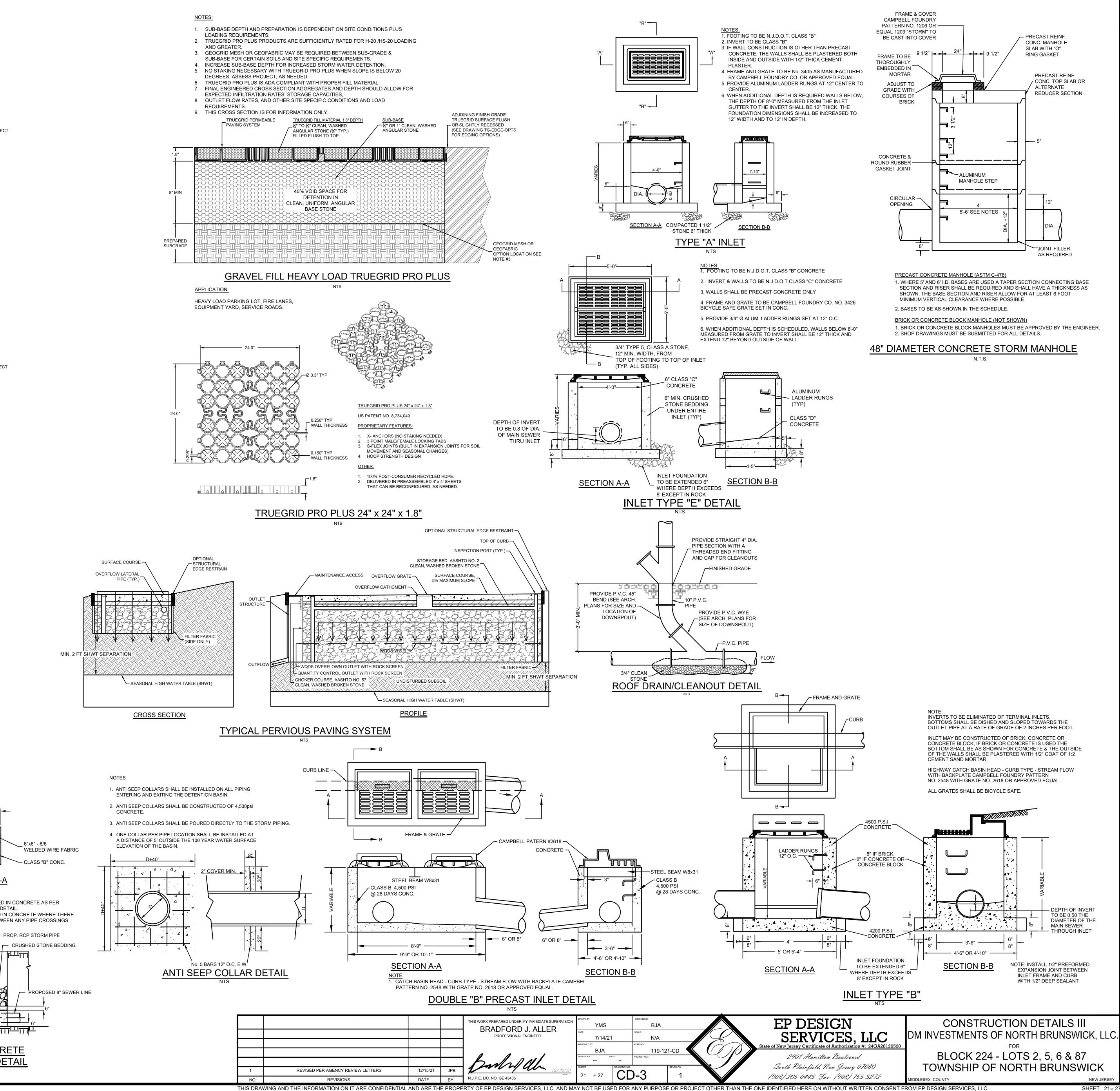






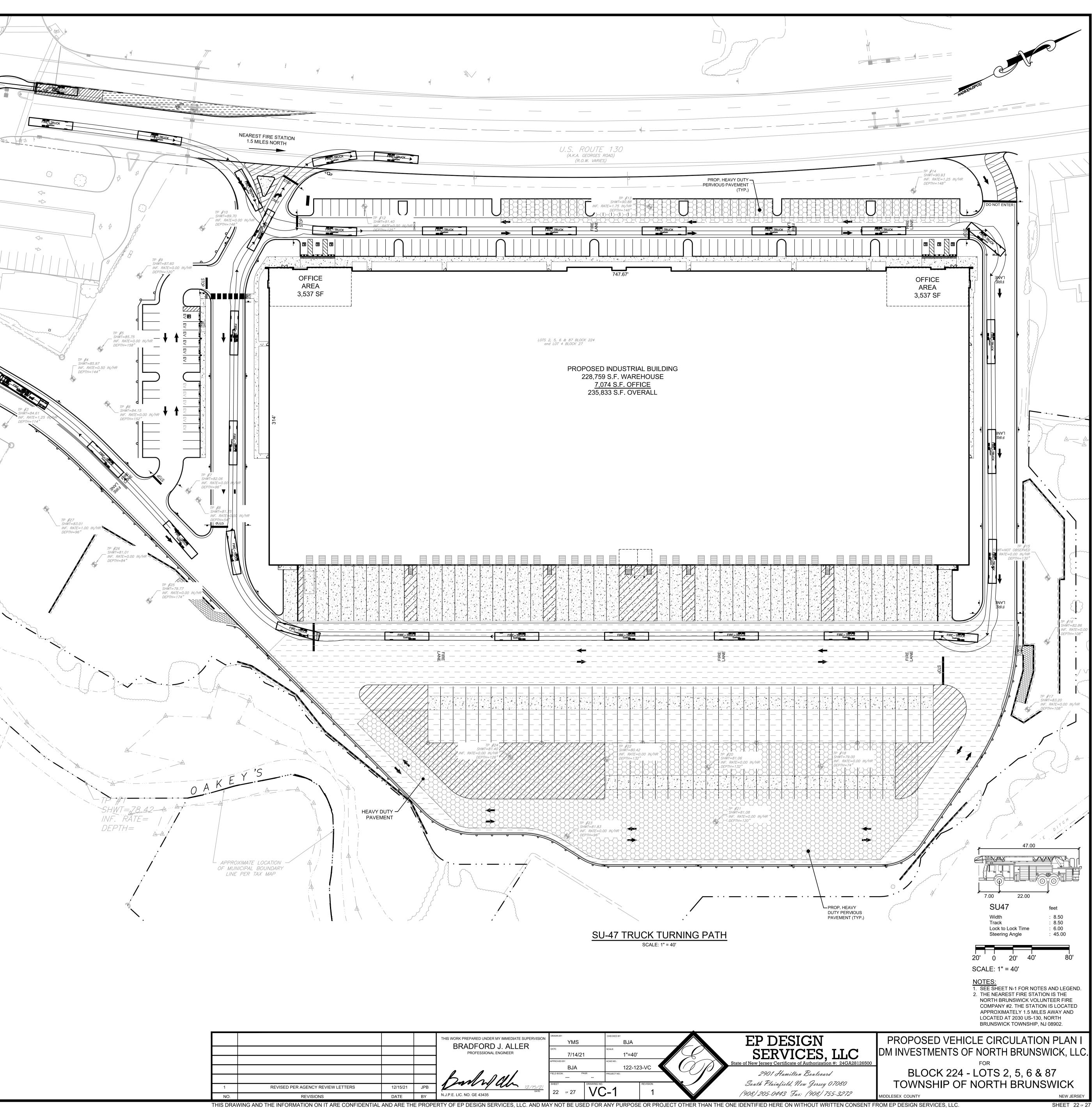
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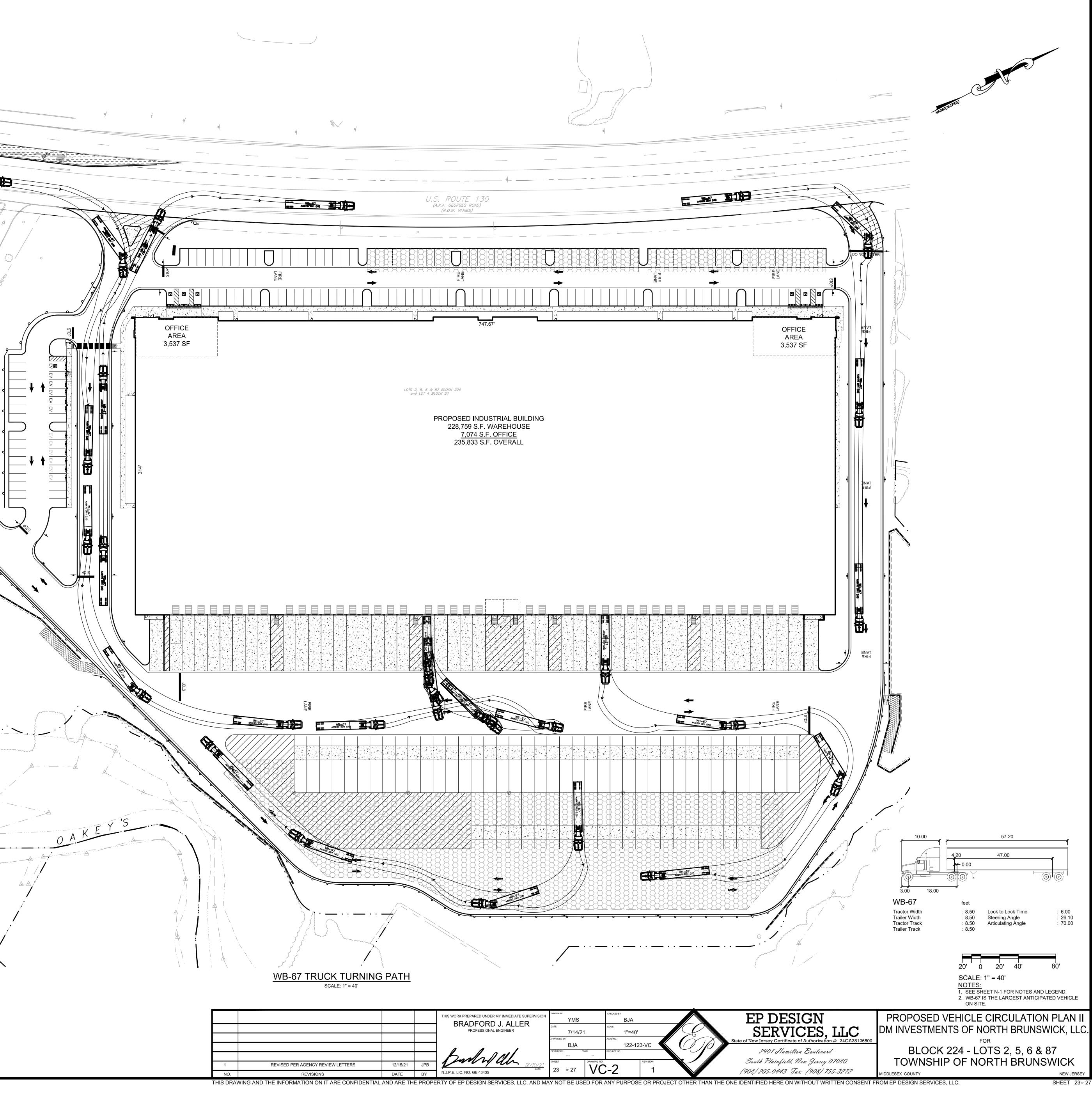


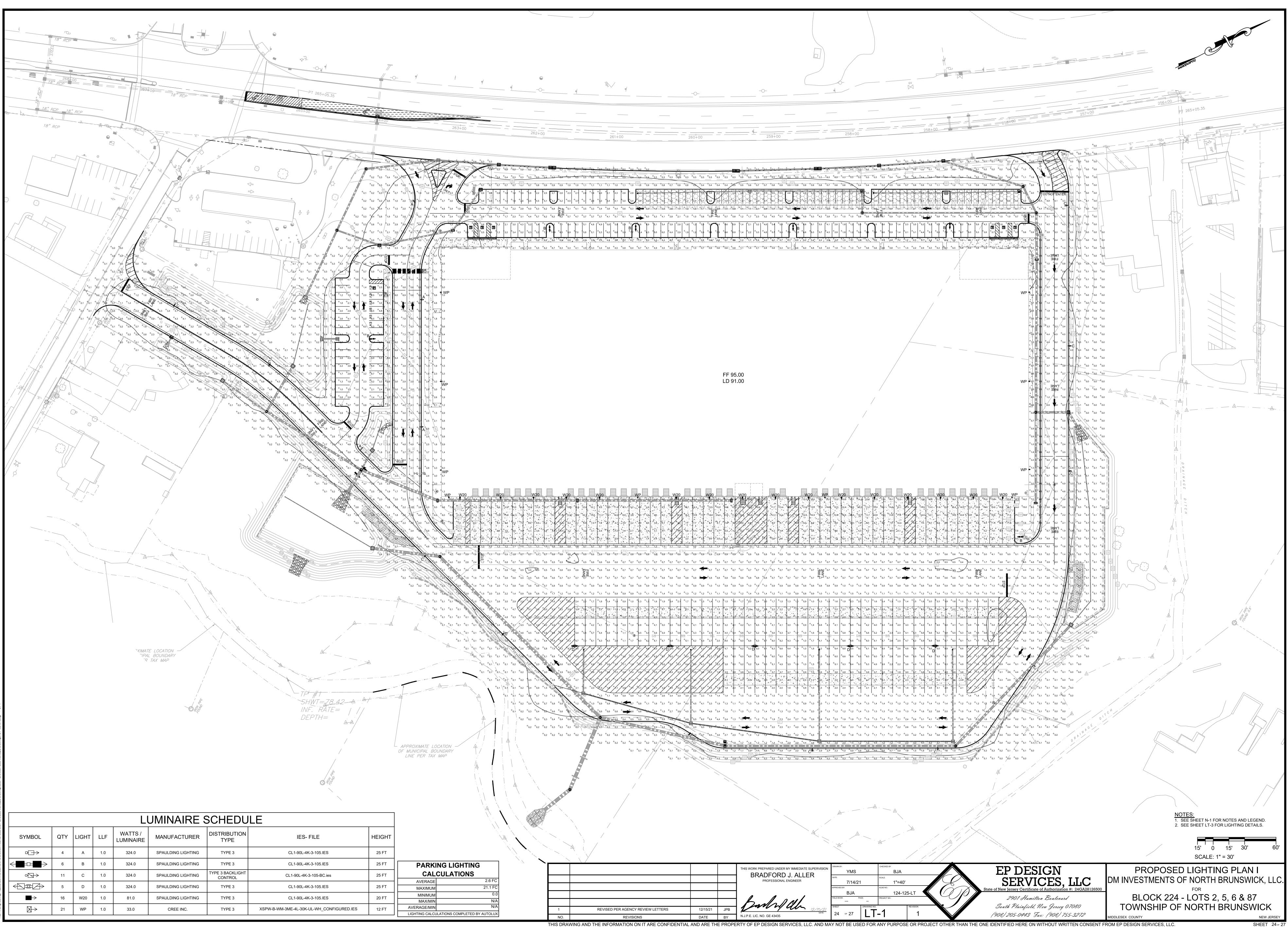


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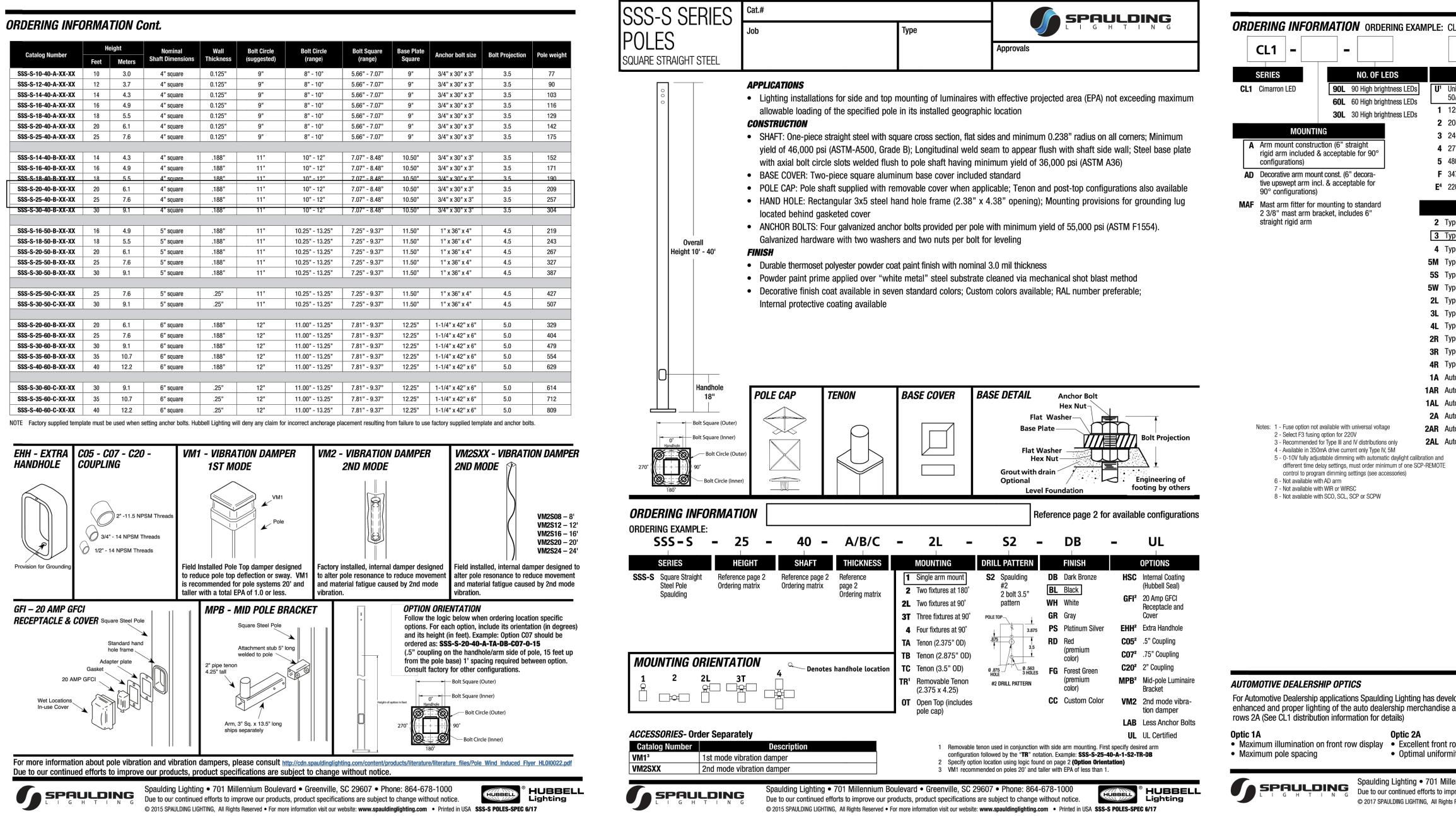
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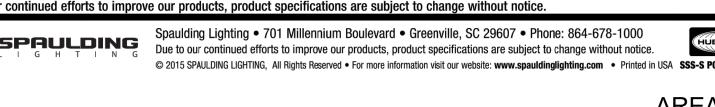




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SYMBOL	QTY	LIGHT	LLF	WATTS / LUMINAIRE	MANUFACTURER	DISTRIBUTION TYPE	IES- FILE	HEIC
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$\boxtimes \rightarrow$	21	WP	1.0	33.0	CREE INC.	TYPE 3	XSPW-B-WM-3ME-4L-30K-UL-WH_CONFIGURED.IES	12





AREA LIGHT POLE (A, B,C AND D-22)

B. C. C. C. C. C.

(236mm)



### **Ordering Information** Example: XSPW-A-0-2-F-C-U-Z

**XSP** Series

Product Description

multiple distributions.

Performance Summary

CRI: Minimum 70 CRI

Accessories

Field-Installed

\*\* Must specify color

WM-PLT12\*\* - 12" (305mm) Square

WM-PLT14\*\* - 14" (356mm) Square

- Covers holes left by incumbent wall packs

Beauty Plate

XSPW<sup>™</sup> LED Wall Mount Luminaire

Applications: General area and security lighting

NanoOptic® Precision Delivery Grid™ optic

\* See http://lighting.cree.com/warranty for warranty terms

Assembled in the U.S.A. of U.S. and imported parts

CCT: 3000K (+/- 300K); 4000K (+/- 300K); 5700K (+/- 500K)

The XSPW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall

Limited Warranty<sup>+</sup>: 10 years on luminaire/10 years on Colorfast DeltaGuard<sup>®</sup> finish

mounted applications. The rugged lightweight aluminum housing and mounting box are designed

for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire

allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is

management. Optic design features industry-leading NanoOptic® Precision Delivery Grid™ system in

intended specifically for LED technology including a weathertight LED driver compartment and thermal

XSPW	Α	0						
Product	Version	Mounting	Optic	Modules	Input Power Designator	Voltage	Color Options	Options
XSPW	A	0 Wall	2 Type II Medium 3 Type III Medium	30K 3000K F 4000K M 5700K	C 42W G 25W	U Universal 120-277V 1 120V - Available with P option only 2 208-277V - Available with P option only 6* 347V	Silver T Black W White Z Bronze	<ul> <li>K Multi-Level         <ul> <li>Refer to ML spec sheet for details</li> <li>Available with Input Power Designator C only</li> <li>Available with U and 6 voltages only</li> </ul> </li> <li>P Photocell         <ul> <li>Not available with K option</li> <li>Available with 1 or 2 voltages only</li> </ul> </li> </ul>





\* Available in Canada only. 347V utilizes magnetic step-down transformer. For input power for 347V, refer to the Electrical Data table

Rev. Date: VersionA V11 08/20/2018 Canada: www.cree.com/canada

9.5 lbs. (4.3kg)

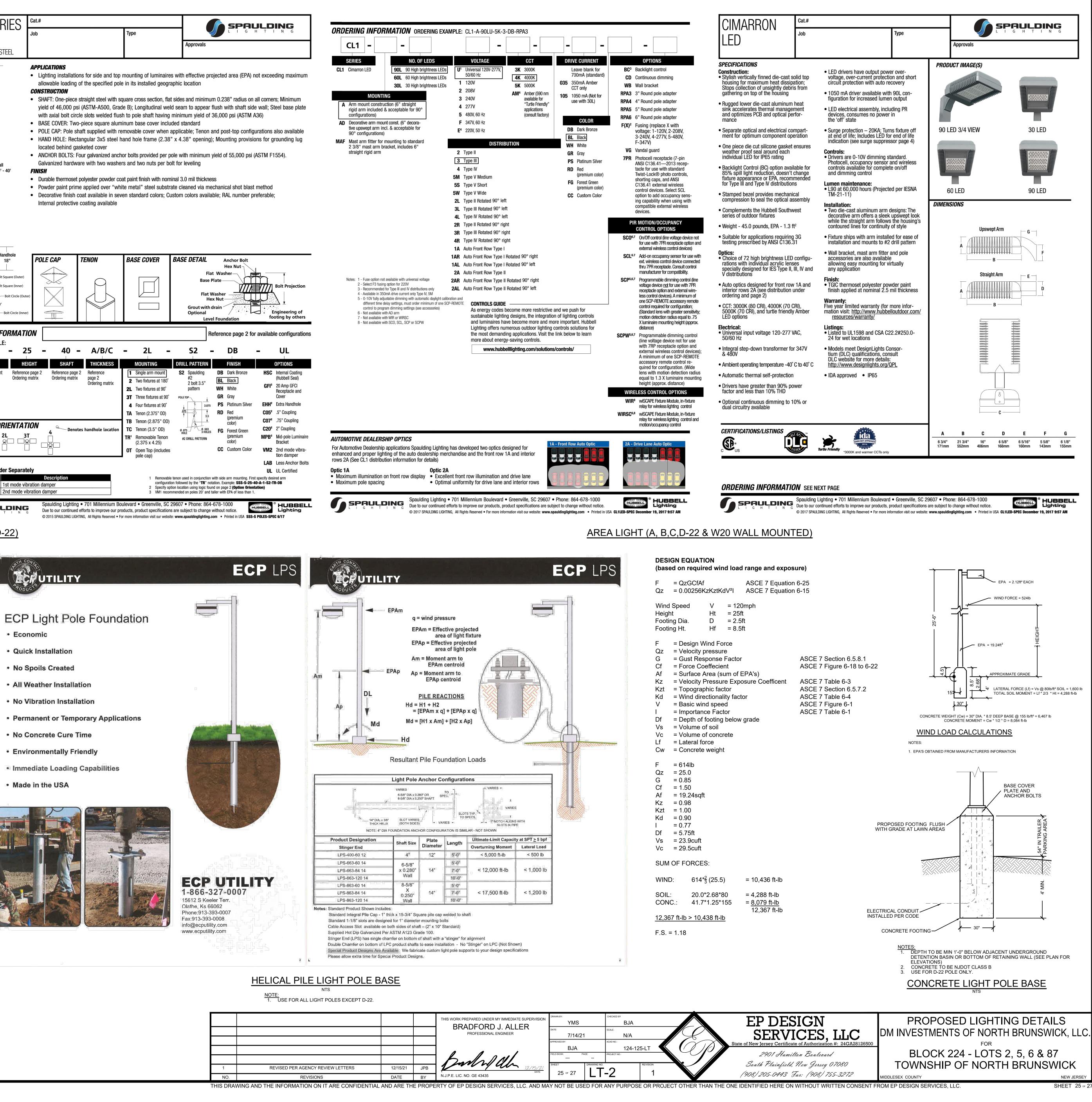


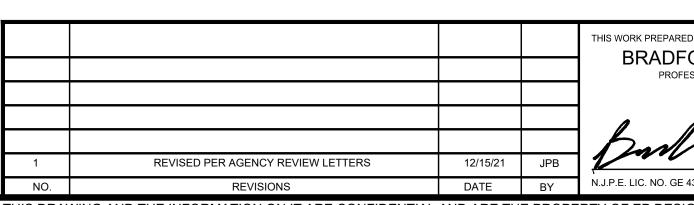
Multi-Level Sensor location

ordered as an option)

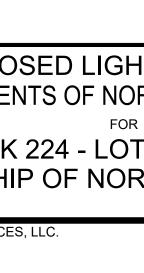
WALL MOUNTED (WP)

RIFS	Cat.#					
IILO	Job	Туре				
TEEL			Approvals			





- 7	12/15/21						callegerera, reca gree	<i>ely</i> 07000	
GE 43435	DATE:	<b>25</b> ₀⊧ <b>27</b>	LI-2	1		(908/205	-0443 'Fax: /908	8  755-3272	MIDDLESEX COUNTY
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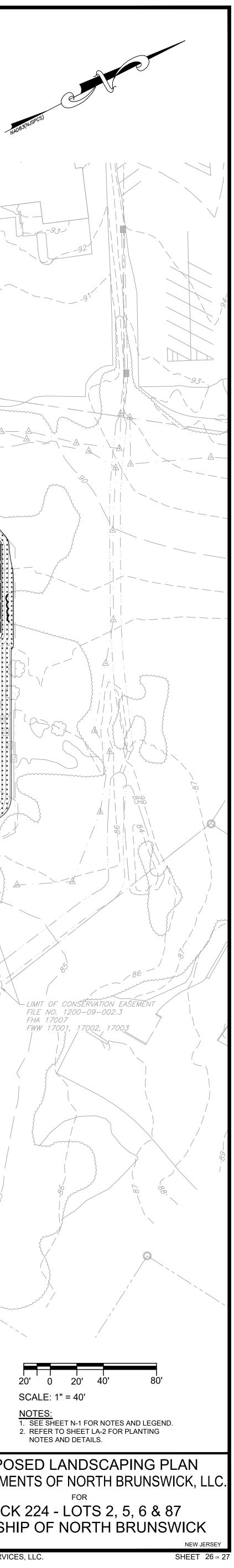




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PLANT SCHEI	DULE						
	DULE CODE AB	BOTANICAL / COMMON NAME Acer rubrum `Bowhall`	SIZE 2"-2.5" CALIPER	TYPE B&B		QTY 38	
	CODE AB	BOTANICAL / COMMON NAME Acer rubrum `Bowhall` Bowhall Red Maple	2"-2.5" CALIPER	B&B		38	
	CODE	BOTANICAL / COMMON NAME Acer rubrum `Bowhall`					
PLANT SCHEI DECIDUOUS TREES	CODE AB	BOTANICAL / COMMON NAME Acer rubrum `Bowhall` Bowhall Red Maple Betula nigra	2"-2.5" CALIPER	B&B		38	
	CODE AB BN ZG CODE	BOTANICAL / COMMON NAME         Acer rubrum `Bowhall`         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata `Green Vase`         Sawleaf Zelkova         BOTANICAL / COMMON NAME	2"-2.5" CALIPER 12FT-14FT 2"-2.5" CALIPER SIZE	B&B           B&B           B&B           B&B           TYPE		38 19 23 QTY	
DECIDUOUS TREES	CODE AB BN ZG	BOTANICAL / COMMON NAME         Acer rubrum `Bowhall`         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata `Green Vase`         Sawleaf Zelkova	2"-2.5" CALIPER 12FT-14FT 2"-2.5" CALIPER	B&B B&B B&B B&B		38 19 23	
DECIDUOUS TREES	CODE AB BN ZG CODE	BOTANICAL / COMMON NAME         Acer rubrum `Bowhall`         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata `Green Vase`         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca	2"-2.5" CALIPER 12FT-14FT 2"-2.5" CALIPER SIZE	B&B           B&B           B&B           B&B           TYPE		38 19 23 QTY	
DECIDUOUS TREES	CODE AB BN ZG CODE IO	BOTANICAL / COMMON NAME         Acer rubrum `Bowhall`         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata `Green Vase`         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens `Glauca`	2"-2.5" CALIPER 12FT-14FT 2"-2.5" CALIPER SIZE 5FT-6FT	B&B           B&B           B&B           B&B           B&B           TYPE           B&B		38 19 23 QTY 35	
DECIDUOUS TREES	CODE AB BN ZG CODE IO PA PP	BOTANICAL / COMMON NAME         Acer rubrum `Bowhall`         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata `Green Vase`         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens `Glauca`         Colorado Blue Spruce	2"-2.5" CALIPER 12FT-14FT 2"-2.5" CALIPER SIZE 5FT-6FT 5FT-6FT 5FT-6FT	B&B         B&B         B&B         TYPE         B&B         B&B         B&B         B&B		38 19 23 23 QTY 35 43 27	
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DECIDUOUS TREES	CODE AB BN ZG CODE IO PA PA PP CODE CC CC	BOTANICAL / COMMON NAMEAcer rubrum `Bowhall` Bowhall Red MapleBetula nigra River Birch Multi-TrunkZelkova serrata `Green Vase` Sawleaf ZelkovaBOTANICAL / COMMON NAMEIlex opaca American HollyPicea abies Norway SprucePicea pungens `Glauca` Colorado Blue SpruceBOTANICAL / COMMON NAMEEOTANICAL / COMMON NAMEColorado Blue SpruceColorado Blue SpruceCornus kousa Kousa Dogwood	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> </ul>	B&B         B&B         B&B         TYPE         B&B		38         19         23         QTY         35         43         27         QTY         6	
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DECIDUOUS TREES	CODE         AB         BN         ZG         CODE         IO         PA         PP         CODE         CODE         CODE         CODE         IO         CODE         CODE	BOTANICAL / COMMON NAMEAcer rubrum `Bowhall' Bowhall Red MapleBetula nigra River Birch Multi-TrunkZelkova serrata `Green Vase` Sawleaf ZelkovaBOTANICAL / COMMON NAMEIlex opaca American HollyPicea abies Norway SprucePicea pungens `Glauca` Colorado Blue SpruceBOTANICAL / COMMON NAMECercis canadensis Alley Cat Alley Cat RedbudCornus kousa Kousa DogwoodLagerstroemia x `Tuscarora` Red Crape Myrtle Multi-TrunkBOTANICAL / COMMON NAME	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> </ul>	B&B         B&B         B&B         TYPE         B&B         FYPE         B&B         FYPE         B&B         FYPE         B&B         FYPE         B&B         FYPE         B&B         FYPE         B&B         BYPE		38         19         23         QTY         35         43         27         QTY         6	
DECIDUOUS TREES	CODEABBNZGCODEIOPAPACODECCCCCCCDECCCCEC	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         Lagerstroemia x 'Tuscarora'         Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>30"-36"</li> </ul>	B&B         B&B         B&B         TYPE         B&B         B&B         B&B         B&B         B&B         B&B         B&B         B&B         FYPE         B&B         B&B         FYPE         B&B         TYPE         B&B         FYPE         B&B         B&B         B&B         B&B		38         19         23         QTY         35         43         27         QTY         6         5         1         QTY         7	
DECIDUOUS TREES	CODE         AB         BN         ZG         CODE         IO         PA         PP         CODE         CODE         CODE         CODE         LT         CODE         EC         FI	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         Lagerstroemia x 'Tuscarora'         Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush         Forsythia x intermedia         Border Forsythia	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>30"-36"</li> <li>24"-30"</li> </ul>	B&BB&BB&BTYPEB&BB&BB&BB&BTYPEB&BB&BTYPEB&BFB&BB&BB&BB&BB&BB&BCONTAINER		38         19         23         QTY         35         43         27         QTY         6         5         1         QTY         7         26	
DECIDUOUS TREES	CODEABBNZGCODEIOPAPAPPCODECODECCCCCCFIFIMP	BOTANICAL / COMMON NAMEAcer rubrum 'Bowhall' Bowhall Red MapleBowhall Red MapleBetula nigra River Birch Multi-TrunkZelkova serrata 'Green Vase' Sawleaf ZelkovaBOTANICAL / COMMON NAMEIlex opaca American HollyPicea abies Norway SprucePicea pungens 'Glauca' Colorado Blue SpruceBOTANICAL / COMMON NAMECercis canadensis Alley Cat Alley Cat RedbudCornus kousa Kousa DogwoodBOTANICAL / COMMON NAMEEuonymus alatus 'Compactus' Compact Burning BushForsythia x intermedia Border ForsythiaMyrica pensylvanica Northern Bayberry	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> </ul>	B&BB&BB&BTYPEB&BB&BB&BB&BTYPEB&BB&BTYPEB&BB&BTYPEB&BCONTAINERCONTAINER		38         19         23         QTY         35         43         27         QTY         6         5         1         QTY         6         5         1         QTY         7         26         10	
DECIDUOUS TREES	CODE         AB         BN         ZG         CODE         IO         PA         PP         CODE         FI         VA	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         Lagerstroemia x 'Tuscarora'         Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush         Forsythia x intermedia         Border Forsythia         Myrica pensylvanica         Northern Bayberry         Viburnum dentatum         Viburnum	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> </ul>	B&BB&BB&BTYPEB&BB&BB&BB&BB&BFYPEB&BB&BFYPEB&BFYPEB&BFYPEB&BCONTAINERB&BB&BFYPEB&BB&BFYPEB&BB&BFYPEB&BFYPEB&BFYPEB&BFYPEB&BFYPEB&BFYPEB&BFYPEB&BFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPE<		38         19         23         QTY         35         43         27         QTY         6         5         1         QTY         6         1         27         QTY         6         10         11	
DECIDUOUS TREES	CODEABBNZGCODEIOPAPAPPCODECODECCCCCCFIFIMP	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush         Forsythia x intermedia         Border Forsythia         Myrica pensylvanica         Northern Bayberry         Viburnum dentatum	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> </ul>	B&BB&BB&BTYPEB&BB&BB&BB&BTYPEB&BB&BTYPEB&BB&BTYPEB&BCONTAINERCONTAINER		38         19         23         QTY         35         43         27         QTY         6         5         1         QTY         6         5         1         QTY         7         26         10	
DECIDUOUS TREES	CODE         AB         BN         ZG         CODE         IO         PA         PP         CODE         CODE         CODE         CODE         FI         MP         VA         CODE         CODE	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         Lagerstroemia x 'Tuscarora'         Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush         Forsythia x intermedia         Border Forsythia         Myrica pensylvanica         Northern Bayberry         Viburnum dentatum         Viburnum dentatum         Viburnum dentatum         Viburnum         BOTANICAL / COMMON NAME	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> <li>SIZE</li> </ul>	B&BB&BB&BTYPEB&BB&BB&BB&BTYPEB&BB&BFYPEB&BB&BTYPEB&BCONTAINERB&BCONTAINERB&BFYPEB&B		38         19         23         QTY         35         43         27         QTY         6         9         27         QTY         6         1         27         QTY         6         1         27         QTY         6         1         27         1         1         27         1         1         1         1         10         11         QTY	
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DECIDUOUS TREES	CODE         AB         BN         ZG         CODE         IO         PA         PA         CODE         CODE         CODE         CODE         CODE         CODE         CODE         CODE         CODE         FI         VA         CODE         BW         IH	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         Lagerstroemia x 'Tuscarora'         Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush         Forsythia x intermedia         Border Forsythia         Myrica pensylvanica         Northern Bayberry         Viburnum dentatum         Viburnum dentatum         Viburnum dentatum         Viburnum dentatum         Ilex crenata 'Helerii'         Heler Japanese Holly         Ilex renata 'Helerii'         Heler Japanese Holly         Ilex verticillata 'Winter Red' <td><ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> </ul></td> <td>B&amp;BB&amp;BB&amp;BB&amp;BTYPEB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BB&amp;BCONTAINERB&amp;BCONTAINERB&amp;BCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINER</td> <td></td> <td>38         19         23         QTY         35         43         27         QTY         6         QTY         6         1         QTY         6         1         QTY         1         QTY         1         QTY         35         35         35</td> <td></td>	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> </ul>	B&BB&BB&BB&BTYPEB&BB&BB&BB&BB&BB&BB&BB&BB&BB&BB&BCONTAINERB&BCONTAINERB&BCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINER		38         19         23         QTY         35         43         27         QTY         6         QTY         6         1         QTY         6         1         QTY         1         QTY         1         QTY         35         35         35	
DECIDUOUS TREES	CODE         AB         BN         ZG         IO         PA         PA         PP         CODE         CODE         CODE         CODE         PP         CODE         CODE         CODE         FI         MP         VA         CODE         BW         IH         IA	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall'         Bowhall Red Maple         Betula nigra         River Birch Multi-Trunk         Zelkova serrata 'Green Vase'         Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca         American Holly         Picea abies         Norway Spruce         Picea pungens 'Glauca'         Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat         Alley Cat Redbud         Cornus kousa         Kousa Dogwood         Lagerstroemia x 'Tuscarora'         Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus'         Compact Burning Bush         Forsythia x intermedia         Border Forsythia         Myrica pensylvanica         Northern Bayberry         Viburnum dentatum         Viburnum dentatum         Viburnum dentatum         Viburnum dentatum         Ilex crenata 'Helerii'         Heler Japanese Holly         Ilex glabra 'Compacta'         Compact Inkberry         Ilex verticillata 'Winter Red'	<ul> <li>2"-2.5" CALIPER</li> <li>12FT-14FT</li> <li>12FT-14FT</li> <li>2"-2.5" CALIPER</li> <li>SIZE</li> <li>5FT-6FT</li> <li>5FT-6FT</li> <li>SIZE</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>2"-2.5" CALIPER</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>SIZE</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> <li>30"-36"</li> </ul>	B&BB&BB&BTYPEB&BB&BB&BB&BTYPEB&BB&BB&BB&BB&BB&BCONTAINERB&BCONTAINERB&BCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINERCONTAINER		38         19         23         QTY         35         43         27         QTY         6         QTY         6         1         27         QTY         6         10         QTY         10         QTY         43         5         11         QTY         47         35         160	
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DECIDUOUS TREES	CODEABBNZGCODEIOPAPAPPCODECCCCCODECODEFIFIMPCODEECFIIHIAIAIWVRCODEIR	BOTANICAL / COMMON NAME         Acer rubrum 'Bowhall' Bowhall Red Maple         Betula nigra River Birch Multi-Trunk         Zelkova serrata 'Green Vase' Sawleaf Zelkova         BOTANICAL / COMMON NAME         Ilex opaca American Holly         Picea abies Norway Spruce         Picea pungens 'Glauca' Colorado Blue Spruce         BOTANICAL / COMMON NAME         Cercis canadensis Alley Cat Alley Cat Redbud         Cornus kousa Kousa Dogwood         Lagerstroemia x 'Tuscarora' Red Crape Myrtle Multi-Trunk         BOTANICAL / COMMON NAME         Euonymus alatus 'Compactus' Compact Burning Bush         Forsythia x intermedia Border Forsythia         Myrica pensylvanica Northern Bayberry         Viburnum dentatum Viburnum         BOTANICAL / COMMON NAME         Buxus microphylla 'Winter Gem' Globe Winter Gem Boxwood         Ilex crenata 'Helerii' Heler Japanese Holly         Ilex urticillata 'Winter Red' Winter Red Holly         Viburnum rhytidophyllum 'Alleghany' Leatherleaf Viburnum         BOTANICAL / COMMON NAME         Buxus microphylla 'Winter Red' Winter Red Holly         Ilex verticillata 'Winter Red' Winter Red Holly         BOTANICAL / COMMON NAME         BOTANICAL / COMMON NAME         Iris versicolor Blue Flag	2"-2.5" CALIPER         12FT-14FT         2"-2.5" CALIPER         SIZE         5FT-6FT         SIZE         SFT-6FT         SIZE         2"-2.5" CALIPER         SIZE         2"-2.5" CALIPER         SIZE         2"-2.5" CALIPER         30"-36"         SIZE         30"-36"         30"-36"         SIZE         24"-30"         24"-30"         30"-36"         30"-36"         SIZE         30"-36"         SIZE	B&BB&BB&BTYPEB&BB&BB&BB&BB&BB&BB&BB&BB&BB&BB&BCONTAINERB&BCONTAINERB&BCONTAINERB&BCONTAINERB&BB&BFYPEB&BB&BFYPECONTAINERB&BFYPECONTAINERB&BFYPECONTAINERB&BFYPECONTAINERB&BFYPECONTAINERB&BFYPECONTAINERFYPECONTAINERFYPECONTAINERFYPECONTAINERFYPECONTAINERFYPECONTAINERFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEFYPEF	30" o.c.	38         19         23         QTY         35         43         27         QTY         6         27         QTY         6         1         27         QTY         6         10         27         35         1         27         35         1         27         35         1         35         1         26         10         QTY         47         35         160         111         68         QTY         533	
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### GENERAL LANDSCAPE NOTES:

- 1. THE LOCATIONS OF ALL PLANTS SHOWN ON THE LANDSCAPE PLAN ARE APPROXIMATE. THE FINAL LOCATION OF ALL PLANTS AND BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE PROJECT LANDSCAPE ARCHITECT.
- 2. ALL SHRUB BEDS SHALL HAVE A MINIMUM DEPTH OF 3" OF SHREDDED HARDWOOD MULCH.
- . PLANTS SHALL BE WATERED ON THE SAME DAY OF INSTALLATION. THEREAFTER, REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT AND GROWTH OF ALL PLANTS.
- 4. ALL TREES, SHRUBS, GROUND COVERS AND LAWNS SHALL BE GUARANTEED FOR A MINIMUM OF TWO (2) YEARS, ALL PLANTS, LAWNS AND GROUNDCOVER AREAS, NOT IN A HEALTHY GROWING CONDITION SHALL BE REMOVED AND REPLACED WITH PLANTING OF LIKE KIND AND SIZE BEFORE THE CLOSE OF THE NEXT PLANTING SEASON BY THE LANDSCAPE CONTRACTOR AT NO CHARGE TO THE LANDLORD OR TENANT. CONTRACTOR SHALL REMOVE STAKING, GUYING, AND WRAP AT END OF GUARANTEE PERIOD.
- 5. ALL DISTURBED AREAS, UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN OR EROSION CONTROL PLAN, SHALL BE PLANTED AS LAWN. 6. CONTRACTOR SHALL PARTIALLY FILL WITH WATER A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURES MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING.
- . ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D.C. 20005.
- 8. ALL SUBSTITUTION SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 9. ALL PLANTS RELOCATIONS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. 10. IRRIGATION SYSTEM TO BE DESIGNED AND INSTALLED BY OTHERS FOR ALL LANDSCAPED AREAS.
- 11. ALL TREE STUMPS AND OTHER TREE PARTS OR OTHER DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH THE LAW. NO TREE STUMPS, PORTIONS OF TREE TRUNK OR LIMBS SHALL BE BURIED ANYWHERE IN THE DEVELOPMENT. ALL DEAD OR DYING TREES, STANDING OR FALLEN, SHALL BE REMOVED FROM THE SITE.
- 12. NO TOPSOIL SHALL BE REMOVED THE SITE OR USED AS SOIL. TOPSOIL SHALL BE REDISTRIBUTED ON ALL REGARDED SURFACES WITH A MINIMUM OF FOUR (4) INCH THICKNESS AND STABILIZED BY SEEDING OR PLANTING.
- 13. THE DEVELOPER SHALL SELECTIVELY THIN OR REMOVE ALL DEAD OR DYING VEGETATION, EITHER STANDING OR FALLEN, AND SHALL REMOVE, INCLUDING GRUBBING OUT STUMPS, ALL UNDESIRABLE TREES AND OTHER GROWTH.
- 14. AN IDENTIFICATION TAG ATTACHED AT THE NURSERY INDICATING THE EXACT VARIETY WILL BE REQUIRED ON EACH PLANT INSTALLED.

### LAWN SOD SPECIFICATIONS:

- 1. THE SOD COMPOSITION SHALL BE AS FOLLOWS: TALL FESCUE 90%
- KENTUCKY BLUEGRASS 10%
- THE SOD SHALL BE OF GOOD TEXTURE, FREE FROM OBNOXIOUS ROOTS, STONES, AND FOREIGN MATERIAL. SOD SHALL BE FRESH CULTIVATED SOD, WEED-, DISEASE- AND INSECT-FREE.
- 3. SOD SHALL BE OBTAINED FROM AREAS HAVING GROWING CONDITIONS SIMILAR TO AREAS BEING COVERED. SOD SHALL HAVE A CLEAN GROWTH OF ACCEPTABLE GRASS AND SHALL BE MACHINE CUT WITH NOT LESS THAN 1" LOAMY SAND FIRMLY ADHERING TO THE ROOTS.
- . INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTHS AND LENGTHS. BROKEN PADS OR TORN OR UNEVEN EDGES WILL NOT BE ACCEPTED.
- 5. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SHAPE WHEN
- SUSPENDED VERTICALLY FROM A FIRM GRASP ON THE UPPER 10% OF THE SECTION. 6. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED UNDER DROUGHT CONDITIONS. IF THE SOIL IS DRY, SOD SHALL BE WATERED
- SUFFICIENTLY TO MOISTEN THE SOIL TO A DEPTH AT WHICH THE SOD IS TO BE CUT. DUMPING FROM TRANSPORT VEHICLE WILL NOT BE PERMITTED. DAMAGED SOD OR SOD THAT HAS TURNED YELLOW IN COLOR WILL BE REJECTED. SOD SHALL BE INSPECTED AT THE TIME OF DELIVERY BY THE LANDSCAPE ARCHITECT AND ANY SOD THAT DOES NOT MEET
- SPECIFIED STANDARDS WILL BE REJECTED AND REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- 8. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. HOWEVER, IF HIGH TEMPERATURE AND LOW MOISTURE EXTREMES OCCUR, INSTALLATIONS SHOULD OCCUR WITHIN 24 HOURS OF HARVEST. SOD NOT TRANSPLANTED WITHIN THESE TIME PERIODS SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.

### LANDSCAPE MAINTENANCE CHECKLIST

TREES, SHRUBS AND GROUNDCOVERS

PRUNING: PRUNE TREES TO REMOVE DEAD AND DISEASED WOOD AND TO IMPROVE OVERALL HABIT. PRUNE SHRUBS AS NEEDED, AFTER LOWERING TO PREVENT THE LOSS OF NEXT SEASONS BLOSSOMS. PRUNE AT LEAST ONCE PER YEAR. PLANT MATERIAL SHOWN PLANTED IN A MASS OR TOUCHING EACH OTHER ARE TO BE ALLOWED TO GROW TOGETHER IN ORDER TO BE ABLE TO PERFORM AS A SCREEN OR HEDGE. ALL DEAD PERENNIAL/GRASS VEGETATION SHALL BE REMOVED AFTER FIRST FROST.

FERTILIZER: RATIO 2:1:1 AT 2-3 LBS. ACTUAL NITROGEN PER 1,000 SQ. FT. FERTILIZE IN SPRING ONLY.

PESTICIDES: APPLY PESTICIDES ONLY AS NEEDED FOR SPECIFIC DISEASES OR INSECT PESTS.

VEED CONTROL: WEED ALL BEDS AS NEEDED TO KEEP WELL WATER ALL NEW PLANT MATERIAL AS NEEDED THROUGH FIRST AND SECOND GROWING SEASON. IF RAIN IS INSUFFICIENT, WATER ALL WOODY PLANTS THOROUGHLY TWO TIMES PER WEEK, RENEW SHREDDED BARK MULCH TO 3" DEPTH. REMOVE LEAVES FROM ALL BEDS, TURF AREAS, PARKING AREAS, AND WALKS.

REPLACEMENTS: REPLACE ALL DEAD SHRUBS AND TREES WITHIN NEXT PLANTING SEASON

<u>TURF</u>

RENEWAL PROCEDURES: OVER SEED THIN SPOTS IN SPRING AND FALL. THATCH AS NECESSARY.

FERTILIZER: RATIO 3:1:2 AT 1 LB. NITROGEN PER 1,000 SQ. FT. FERTIZE TWO TIMES PER YEAR.

PESTICIDES: INSPECT AND APPLY AS NEEDED FOR DISEASES AND INSECTS.

MOW: MAINTAIN A 2" HEIGHT. MOW AT LEAST ONCE PER WEEK. REMOVE CLIPPINGS FROM DETENTION BASIN.

MANICURE: TRIM LAWN AND GROUND COVERS ALONG SIDEWALKS AND SHRUB BED EDGES. RAKE AS NEEDED. GENERAL MAINTENANCE

DETENTION BASIN: CLEAN OUT OUTLET STRUCTURES AFTER EVERY STORM EVENT.

PAVEMENT: REPLACE ALL BROKEN OR MISSING PAVERS REPAIR OR REPLACE ALL OTHER DAMAGE PAVING AS NECESSARY. REMOVE ALL STAINS.

### ERNST SEED MIX #180 - RAIN GARDEN MIX

**ITEM NUMBER: ERNMX-18** 

- 33.4% SCHIZACHYRIUM SCOPARIUM, 'ITASCA', MN ECOTYPE (LITTLE BLUESTEM, 'ITASCA' MN ECOTYPE)
- 20.0% ELYMUS VIRGINICUS, 'MADISON' (VIRGINIA WILDRYE, 'MADISON') 7.0% CAREX VULPINOIDEA. PA ECOTYPE (FOX SEDGE, PA ECOTYPE0
- 5.6% CHASMANTHIUM LATIFOLIUM, WV ECOTYPE 9RIVER OATS, WV ECOTYPE) 5.5% ECHINACEA PURPUERA (PURPLE CONEFLOWER)
- 3.0% CHAMAECRISTA FASCICULATA, PA ECOTYPE (PARTRIDGE PEA, PA ECOTYPE) 3.0% COREOPSIS LANCEOLATA (LANCELEAF COREOPSIS)
- 3.0% PANICUM CLANDESTINUM, TIOGA (DEERTONGUE, TIOGA) 3.0% PANICUM RIGIDULUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)
- 3.0% RUDBECKIA HIRTA (BLACKEYED SUSAN) 3.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
- 2.0% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE) 1.8% ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
- 1.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE) 1.0% SENNA HEBECARPA, VA & WV ECOTYPE (WILD SENNA, VA & WV ECOTYPE)
- 0.6% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE) 0.5% ASTER NOVAE-ANGLIAE. PA ECOTYPE (NEW ZEALAND ASTER. PA ECOTYPE)
- 0.5% ASTER PRENANTHOIDES, PA ECOTYPE (ZIGZAG ASTER, PA ECOTYPE)
- 0.5% BAPTISIA AUSTRALIS, SOUTHERN WV ECOTYPE (BLUE FALSE INDIGO, SOUTHERN WV ECOTYPE) 0.5% PYCNANTHEMUM TENUIFOLIUM (NARROWLEAF MOUNTAINMINT)
- 0.5% ZIZIA AUREA (GOLDEN ALEXANDERS) 0.4% MONFARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE (WILD BERGAMOT, FORT INDIANTOWN
- GAP-PA ECOTYPE) 0.3% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE) 0.3% JUNCUS TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
- 0.2% JUNCUS EFFUSUS (SOFT RUSH) 0.2% SOLIDAGO NEMORALIS, PA ECOTYPE (GRAY GOLDENROD, PS ECOTYPE)
- 0.2% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
- SEEDING RATE: 20 LB PER ACRE WITH A COVER CROP OF GRAIN RYE AT 30 LB PER ACRE

ERNST CONSERVATION SEEDS, INC. 8884 MERCER PIKE, MEADVILLE PA 16335

1-800-873-3321

**ITEM NUMBER: ERNMX-181** 

### ERNST SEED MIX #181 - NATIVE STEEP SLOPE MIX

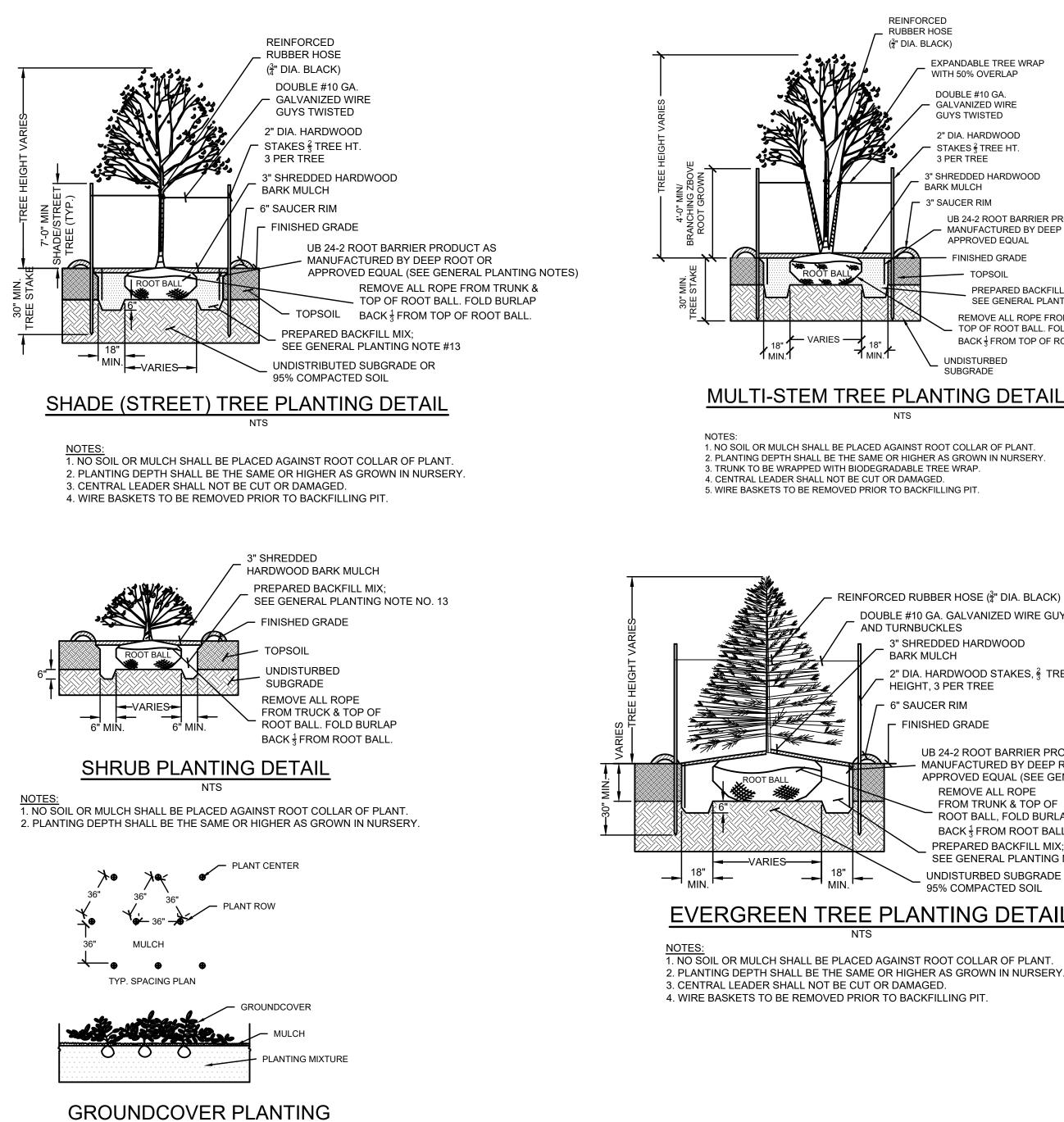
31.9% SORGHASTRUM NUTANS, NY4 ECOTYPE (INDIANGRASS, NY4 ECOTYPE) 20.0% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)

- 10.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
- 9.6% ANDROPOGON GERARDII, 'NIAGARA' (BIG BLUESTEM, 'NIAGARA') 7.0% ELYMUS CANADENSIS (CANADA WILDRYE)
- 5.0% AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE (AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE) 4.0% PANICUM VIRGATUM, NJ ECOTYPE (SWITCHGRASS, NJ ECOTYPE)
- 3.0% PANICUM CLANDESTINUM, 'TIOGA' (DEERTONGUE, 'TIOGA') 2.0% SCHIZACHYRIUM SCOPARIUM, 'CAMPER' (LITTLE BLUESTEM, 'CAMPER')
- 1.3% CHAMAECRISTA FASCICULATA, PA ECOTYPE (PARTRIDGE PEA, PA ECOTYPE) 1.2% ECHINACEA PURPUREA (PURPLE CONEFLOWER)
- 1.2% TRIDENS FLAVUS (PURPLETOP) 1.0% COREOPSIS LANCEOLATA (LACELEAF COREOPSIS)
- 1.0% RUDBECKIA HIRTA, COASTAL PLAIN NC ECOTYPE (BLACKEYED SUSAN, COASTAL PLAIN NC ECOTYPE) 0.7% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
- 0.2% MONARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE (WILD BERAMOT, FORT, INDIANTOWN GAP-PA ECOTYPE)
- 0.1% ASTER LAEVIS, NY ECOTYPE (SMOOTH BLUE ASTER, NY ECOTYPE) 0.1% ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
- 0.1% GEUM CANADENSE, PA ECOTYPE (WHITE AVENS, PA ECOTYPE) 0.1% LIATRIS SPICATA, PA ECOTYPE (MARSH BLAZING STAR, PA ECOTYPE)
- 0.1% PENSTEMON DIGITALIS, PA ECOTYPE (TALL WHITE BEARDTONGUE, PA ECOTYPE) 0.1% PYCANTHEMUM TENUIFOLIUM (NARROWLEAF GOLDENROD)
- 0.1% SOLIDAGO JUNCEA, PA ECOTYPE (EARLY GOLDENROD, PA ECOTYPE)

### PLANTING NOTES:

- 1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANT MATERIALS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN QUANTITIES INDICATED ON THE PLANT LIST. THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.
- 2. STANDARDS: ALL PLANTS SHALL BE IN CONFORMANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. WITH REGARD TO SIZING AND DESCRIPTION.
- 3. QUALITY: ALL PLANTS SHALL BE NURSERY GROWN AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE AND INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS.
- 4. SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE WITHIN REASONABLE DISTANCE, SUBSTITUTIONS MAY BE MADE UPON REQUEST BY THE CONTRACTOR, AND MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
- 5. SIZE: ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED ON THE PLANT LIST UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT
- 6. PRUNING: EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN, INC. ALL PRUNING MUST BE DONE AT THE NURSERY PRIOR TO PURCHASE, NO FIELD PRUNING IS ALLOWED. CARE MUST BE TAKEN TO AVOID ANY ADDITIONAL DAMAGE TO THE PLANT. CUTS OVER ONE INCH (1") IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.
- 7. ROOT SYSTEMS: BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH OF DIAMETER AND DEPTH TO INCLUDE MOST OF THE FIBROUS ROOTS. CONTAINER GROWN STOCK SHALL HAVE BEEN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN THE CONTAINER OR BALL.
- 8. PROTECTION: ROOTBALLS, TRUNKS, BRANCHES AND FOLIAGE OF PLANTS SHALL BE ADEQUATELY PROTECTED AT ALL TIMES FROM SUN AND DRYING WINDS OR FROST. PLANTS WITH BROKEN ROOT BALLS OR EXCESSIVE DAMAGE TO THE CROWN SHALL BE REPLACED, IN KIND, PRIOR TO INSTALLATION.
- 9. MULCH: IMMEDIATELY FOLLOWING PLANT INSTALLATION ALL TREE AND SHRUB PLANTING PITS SHALL BE COVERED WITH A THREE INCH (3") LAYER OF HARDWOOD MULCH. THE LIMITS OF THIS MULCH FOR DECIDUOUS TREES AND SINGLE EVERGREEN TREES SHALL BE THE AREA OF THE PIT; FOR EVERGREEN TREES CLUSTER OR SHRUB MASSES, A MULCHED BED SHALL BE CREATED. INCORPORATE SYNTHETIC WEED BARRIER FABRIC UNDER ALL MULCHED BEDS.
- 10. ANTI-DESICCANT SPRAY: SPRAY ALL BROADLEAF EVERGREEN TREES & SHRUBS WITH AN ANTI-DESICCANT SUCH AS "WILT PROOF".
- 11. PLANTING MIX BEFORE BACKFILLING: THE TOPSOIL BACKFILL MIXTURE SHALL BE PREPARED AND MIXED TO THE FOLLOWING PROPORTIONS: DECIDUOUS PLANTS - TWO PARTS BY VOLUME OF TOPSOIL, ONE PART ORGANIC COMPOST AND FIVE POUNDS BONE MEAL PER CUBIC YARD. EVERGREEN PLANTS - THREE PARTS BY VOLUME OF TOPSOIL AND ONE PART ORGANIC COMPOST. FERTILIZER - TO THE ABOVE MIXTURES, ADD THREE POUNDS OF SPECIFIED COMMERCIAL FERTILIZER (SLOW RELEASE 5-10-5) FOR TREES UP TO THREE INCHES (3") IN CALIPER AND ONE POUND PER INCH OF CALIPER FOR LARGER TREES. SHRUBS SHALL BE FERTILIZED WITH SIX (6) OUNCES OF FERTILIZER FOR SHRUBS FOUR FEET (4') AND OVER.
- 12. STAKING AND GUYING: ALL TREES SHALL BE STAKED AND GUYED ACCORDING TO ACCEPTED INDUSTRY PRACTICE. ALL TREES 2" TO 3-1/2" CALIPER. SHALL BE BE STAKED AND ALL TREES FOUR (4") CAL OR GREATER TO BE GUYED PER DETAIL ON THIS SHEET. THEY SHALL ALSO BE WRAPPED IMMEDIATELY AFTER THEY ARE PLANTED WITH KRAFT PAPER TYPE OR APPROVED EQUAL
- 13. LAYOUT: THE CONTRACTOR SHALL LAY OUT THE LOCATION OF ALL PLANTS AND THE ARRANGEMENT AND OUTLINES OF PLANTING BEDS AS INDICATED ON THE DRAWINGS. THE LAYOUT OF PLANTING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION OF PLANTING PITS OR PREPARATION OF PLANTING BEDS. ALL PLANTING SHALL BE AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT AND LAYOUT OF PLANTING BEDS. MINOR ADJUSTMENTS TO TREE LOCATIONS MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF MAJOR ADJUSTMENTS ARE ANTICIPATED.
- 14. ADVERSE CONDITIONS: THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO PLANT GROWTH. THE DOCUMENTED CONDITIONS SHALL INCLUDE A PROPOSAL FOR CORRECTING THE SITUATION, INCLUDING ANY CHANGE IN COST FOR REVIEW AND ACCEPTANCE BY THE LANDSCAPE ARCHITECT.
- 15. QUANTITY: THE QUANTITY OF PLANTS INDICATED IN THE PLANT SCHEDULE IS FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL OBTAIN QUANTITIES FOR PRICING BY COMPILING NUMBERS FROM THE PLANTS ILLUSTRATED ON THE DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE DRAWINGS AND THE PLANT SCHEDULE, THE QUANTITIES ILLUSTRATED ON THE DRAWINGS SHALL TAKE PRECEDENCE.
- 16. GUARANTEE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE GUARANTEE PERIOD AND NOTIFY THE OWNER IN WRITING IF PROBLEMS ARE OCCURRING OR SITUATIONS DEVELOP THAT APPEAR DETRIMENTAL TO THE PLANT MATERIAL.
- 17. PLANT MATERIAL RECEIVED IN WIRE BASKETS IS ACCEPTABLE, BUT MUST BE HANDLED IN THE FOLLOWING MANNER. THE PLANT MUST BE PARTIALLY PLANTED FOR SUPPORT, AND THE ENTIRE WIRE BASKET MUST BE CUT AND REMOVED.
- 18. PROVIDE ROOT BARRIER UB-24-2 OR APPROVED EQUAL BETWEEN STREET TREES AND ALL SIDEWALK OR CURBING.
- 19. PLANTING PITS SHALL PROVIDE AT LEAST ONE (1) FOOT OF CLEARANCE AROUND ROOT BALL AT ALL PLANTINGS.
- 20. ALL NON LAWN AREAS SHALL HAVE A TOP GRADE WEED BARRIER. HOLES SHALL BE CUT IN THE BARRIER TO PLANT THE PLANTING MATERIAL. THE TOTAL AREA SHALL BE COVERED IN GOOD MULCH. MULCH SHALL BE KEPT AWAY FROM THE TRUNKS OF TREES.
- 21. ALL LAWN AND LANDSCAPED AREAS SHALL BE IRRIGATED AREAS "AS SHOWN ON PLAN" BY LIMITS OF SOD & IRRIGATION.

				THIS WORK PREPARED UNDER MY IMMEDIATE SUPERVISION	drawn by: RL	CHECKED BY BJA	EP DESIGN	LANDS
				PROFESSIONAL ENGINEER	DATE: 7/14/21	scale: N/A	SERVICES, LLC	DM INVESTM
					APPROVED BY:	ACAD NO.:	State of New Jersey Certificate of Authorization #: 24GA28126500	
					RA FIELD BOOK: PAGE:	126-127-LA PROJECT NO.:	2901 Hamilton Boulevard	BLOC
				portalla 12/15/21			South Plainfield, New Gersey 07080	
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NO.	REVISIONS	DATE	BY	N.J.P.E. LIC. NO. GE 43435			[908] 205-0443 'Fax: [908] 155-3212	MIDDLESEX COUNTY



EXPANDABLE TREE WRAP WITH 50% OVERLAP DOUBLE #10 GA GALVANIZED WIRE GUYS TWISTED 2" DIA. HARDWOOD - STAKES  $\frac{2}{3}$  TREE HT. 3 PER TREE 3" SHREDDED HARDWOOD BARK MULCH 3" SAUCER RIM UB 24-2 ROOT BARRIER PRODUCT AS MANUFACTURED BY DEEP ROOT OR APPROVED EQUAL - TOPSOIL PREPARED BACKFILL MIX: SEE GENERAL PLANTING NOTE #13 REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK  $\frac{1}{3}$  FROM TOP OF ROOT BALL UNDISTURBED SUBGRADE DOUBLE #10 GA. GALVANIZED WIRE GUYS 3" SHREDDED HARDWOOD 2" DIA. HARDWOOD STAKES, <sup>2</sup>/<sub>3</sub> TREE **UB 24-2 ROOT BARRIER PRODUCT AS** MANUFACTURED BY DEEP ROOT OR APPROVED EQUAL (SEE GENERAL PLANTING NOTES) REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL, FOLD BURLAP BACK <sup>1</sup>/<sub>3</sub> FROM ROOT BALL PREPARED BACKFILL MIX; SEE GENERAL PLANTING NOTE #13 UNDISTURBED SUBGRADE OR 95% COMPACTED SOIL

