PRELIMINARY AND FINAL AND SITE AND SUBDIVISION PLAN

FOR

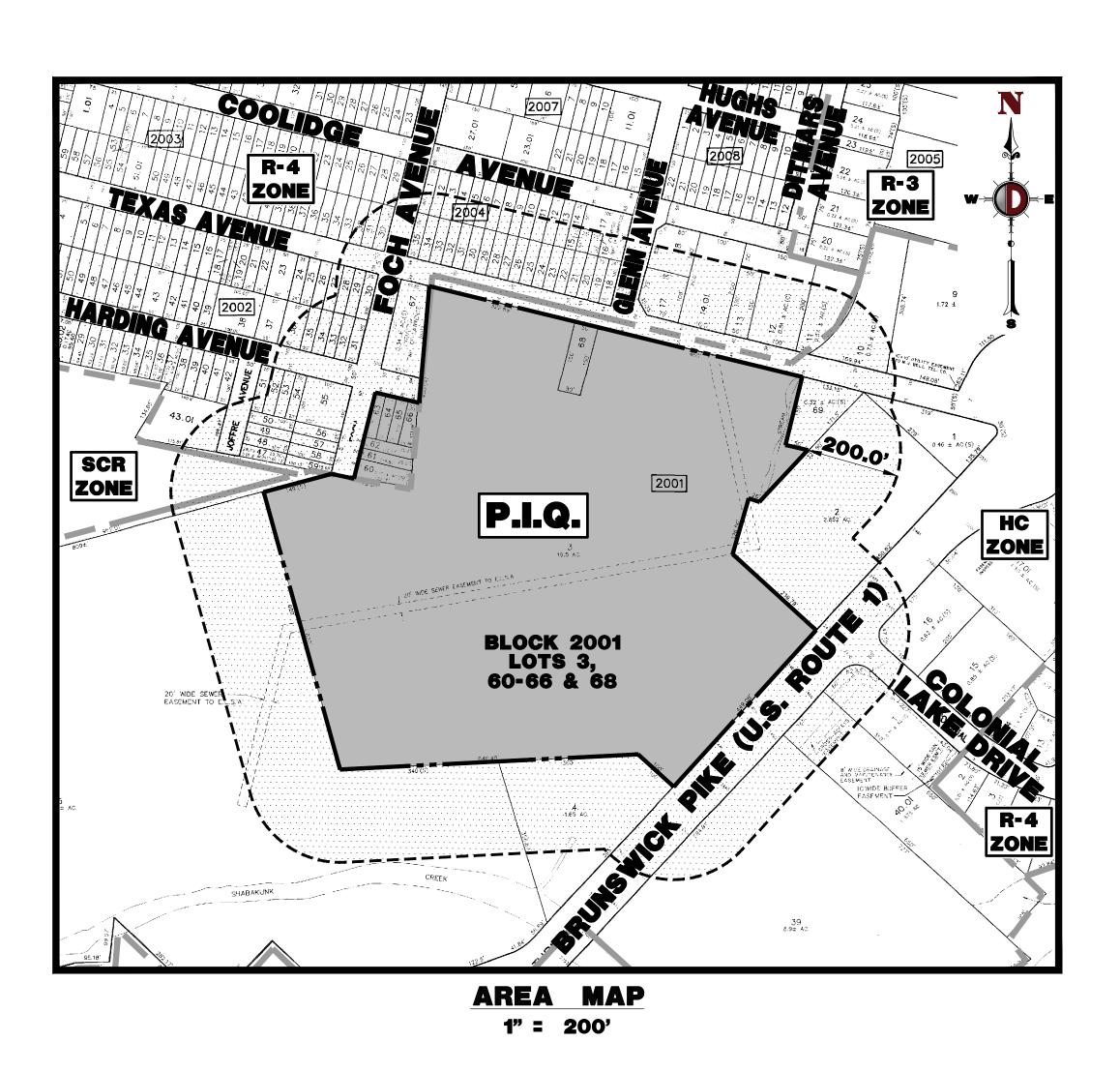
RPM DEVELOPMENT, LLC PROPOSED RESIDENTIAL DEVELOPMENT

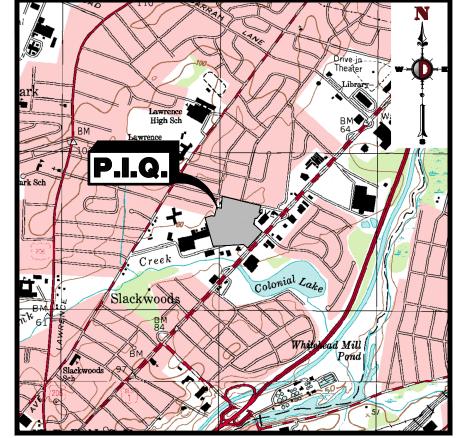
BLOCK 2001, LOTS 3, 60-66 & 68; TAX MAP SHEETS #20 & 20.01- LATEST REV. DATED 1-1-2001 2495 BRUNSWICK PIKE (A.K.A. ALT. ROUTE 1)

200' DRODERTY OWNERS LIST

	200'	PROP	ERTY OW	MERS	LIST	
PROPERTY OWNER	BLOCK	<u>LOT</u>	PROPERTY OWNER	<u>BLOCK</u>	LOT	
NJ CONFERENCE/SEVENTH-DAY AD 2303 BRUNSWICK AVE LAWRENCEVILLE, NJ 08648	OVENTIST 1502	1	DARDZINSKI, BENIAMEN & WIESLAW 109 TEXAS AVE LAWRENCEVILLE, NJ 08648	YA 2002	27	ALSO TO BE NOTIFIED: CORPORATE SECRETARY EWING-LAWRENCE SEWERAGE AUTHORITY 600 WHITEHEAD ROAD
TOWNSHIP OF LAWRENCE 2207 LAWRENCEVILLE RD. LAWRENCEVILLE, NJ 08648	1502 1506	2 25–27 10, 67	HAMPTON, ANNE TRUEHART 101 TEXAS AVE LAWRENCEVILLE, NJ 08648	2002	28-33	LAWRENCEVILLE, NJ 08648 CORPORATE SECRETARY PUBLIC SERVICE ELECTRIC & GAS COMPANY
ORANTES, CECILIO I & ELODIA C	2001 2101	10, 67 6	THE HARDING AVE PRTNER C/O M PO BOX 5271 TRENTON, NJ 08638.0271	2002	34, 35	80 PARK PLAZA, 4B NEWARK, NJ 07101 N.J. AMERICAN WATER
826 PRESIDENT AVE LAWRENCEVILLE, NJ 08648 FELLERS, GARY LEE	1506	21	TRUSZKOWSKI, LECH & EWA 11 MILLBROOK LANE LAWRENCEVILLE, NJ 08648	2002	36	N.J. AMERICAN WATER 1025 LAUREL OAK ROAD VOORHEES, NJ 08043 ATTN: DONNA SHORT
RECEITIO, SANT ELE 836 PRÉSIDENT AVE LAWRENCE TOWNSHIP, NJ 08648 CALLE, MOISES	1506	22-24	WALEIKO, STEPHEN JR. & SHERRY 101 COOLIDGE AVENUE LAWRENCEVILLE, NJ 08648	2003	28, 29	ELIZABETHTOWN GAS COMPANY ONE ELIZABETHTOWN PLAZA THIRD FLOOR EAST UNION, NJ 07083—1975
817 LAKE DR LAWRENCEVILLE, NJ 08648	1506	28-32	BLOOM, TOMMIE & HAZEL 100 TEXAS AVE LAWRENCEVILLE, NJ 08648	2003	30, 31	CORPORATE SECRETARY TRENTON WAITER WORKS PO BOX 528
DORNER, CHARLES & DEBORAH 807 LAKE DR LAWRENCEVILLE, NJ 08648	1506	33	SIVARAMAMOORTHY, T & GIRITHARI 110 TEXAS AVE LAWRENCEVILLE, NJ 08648	2003	32.01	TRENTON, NJ 08604 CORPORATE SECRETARY
HOARN, CANDIDA 2247 PRINCETON PK LAWRENCEVILLE, NJ 08648	1802	22	THOMAS, CLYDE S UX 94 TEXAS AVE LAWRENCEVILLE, NJ 08648	2001	1-4, 32	VERIZON 540 BROAD STREET NEWARK, NJ 07101
CICCHINO, FEDERICO I & BUCHAN, 51 DEVON AVE LAWRENCEVILLE, NJ 08648	AN, BEIH 1803	23	-35 WAY, SUZANNE 89 COOLIDGE AVE	0004	r. 0	AQUA WATER COMPANY 2875F ERIAL ROAD ERIAL, NJ 08081 ATTN: JAMES BARBATO
SEABRIDGE, DEBRA 13 VALERIE LANE LAWRENCEVILLE, NJ 08648	1803	24	LAWRENCE, NJ 08648 KUBALA, DONALD J & JOAN E 8 RANDI WAY	2004	5-8	GENERAL MANAGER COMCAST CABLEVISION 940 PROSPECT STREET TRENTON, NJ 08618
AUGUSTYNIAK, GRZEGORZ & ROSZ 131 GRAF AVENUE LAWRENCE TOWNSHIP, NJ 08648	1803	25	TITUSVILLE, NJ 08560 22-27 ERKOBONI, RICHARD JR & MINDY	2004	9–14,	RCN CORPORATION 105 CARNEGIE CENTER
JOHNSON, MAUREEN 2269 PRINCETON PK LAWRENCEVILLE, NJ 08648	1803	26	68 TEXAS AVE LAWRENCEVILLE, NJ 08648 SURILA, MAMTA & FNU CHAMAN L	2004 AL	15–21	PRINCETON, NJ 08540 CORPORATE SECRETARY AT&T
GROOVER, JANET E 2269 PRINCETON PK LAWRENCEVILLE, NJ 08648	1803	27	82 TEXAS AVE LAWRENCEVILLE, NJ 08648 PUBLIC SERVICE E&G PROPERTY T	2004 TAXES	28-31	1 AT&T WAY BEDMINSTER, NJ 07921 MERCER COUNTY PLANNING BOARD
LOPES, EVERSON & ANA 2261 PRINCETON PIKE LAWRENCEVILLE, NJ 08648	1803	28	PUBLIC SERVICE E&G PROPERTY T 80 PARK PLAZA 6 TH FLOOR NEWARK, NJ 07102-4194 JHAKU-HP, LLC	2005	9	640 SOUTH BROAD STREET 26 TH FLOOR PHILADELPHIA, PA 19103–1699
LEMMON, JOHN T UX 2 IRWIN PL LAWRENCEVILLE, NJ 08648	1803	29	8 WELLESLEY COURT PRINCETON JUNCTION, NJ 08550 CRUZ, ROSA MARIA	2005	10	CORPORATE SECRETARY JERSEY CENTRAL POWER & LIGHT 300 MADISON AVENUE MORRISTOWN, NJ 07962
LUKOIL NORTH AMERICAN LLC 505 FIFTH AVE 91H FL NEW YORK, NY 10017	2001	1	36 TÉXAS ROAD LAWRENCEVILLE, NJ 08648 BSA OIL CORP	2005	11, 12	SUN PIPE LINE L.P. ATTN: R-O-W DEPARTMENT
PLAPINGER, WALLACE R ALS PO BOX 5031 TRENTON, NJ 08638	2001	6	PO BOX 5312 TRENTON, NJ 08638 COMMUNITY OPTIONS PROPERTIES	2005	13	1801 MARKET STREET 26TH FLOOR PHILADELPHIA, PA 19103–1699 CORPORATE SECRETARY
SHAROPOV, ULMAS & NASIROVA, [2250 PRINCETON PIKE LAWRENCEVILLE, NJ 08648	OILNOZA 2001	7	16 FARBER ROAD PRINCETON, NJ 08540 JOHNSON, JOSEPH & YVONNE	2005	14.01	TRANSCONTINENTAL GAS PIPE LINE CORPORATION 2800 POST OAK BOULEVARD HOUSTON, TX 77056
POLISH NAT CATH CHUR C/O M K 100 ELTON AVE TRENTON, NJ 08620	KOWALIK 2001	11	56 TEXAS AVE LAWRENCEVILLE, NJ 08648	2005	17	SUNOCO PIPE LINE, L.P. RIGHT-OF-WAY DEPARTMENT MONTELLO COMPLEX 525 FRITZTOWN ROAD
ERDIE, JULIUS MICHAEL JR. 29 FAIRFIELD AVE LAWRENCEVILLE, NJ 08648	2001	13	ARRIOLA, ESTUARDO & LILLIAN 1145 GLENN AVE LAWRENCEVILLE, NJ 08648 2470 ROUTE 1, LLC 15 HAWTHORNE DR.	2005	18	SINKING SPRING, PA 19608 COMMISSIONER
ERDIE, J M JR C/O HOLLYWOOD 29 FAIRFIELD AVE LAWRENCEVILLE, NJ 08648	GARAGE 2001	14	PRINCETON JCT, NJ 08550 SHEFT ASSOCIATES INC.	2101	1, 40.01	N.J. DEPARTMENT OF TRANSPORTATION 1035 PARKWAY AVENUE CN 600 TRENTON, NJ 08625
ZAJAC, SALLY L 2330 PRINCETON PK LAWRENCEVILLE, NJ 08648	2001	15	2420 BRUNSWICK PIKE LAWRENCEVILLE, NJ 08648 GLICK, RONALD UX C/O HOWCO N	2101 IGT.	39	
THAT'S A LOVELY ACCENT YOU HA 215 S LACIENEGA BLVD. #203 BEVERLEY HILLS, CA 90211		17	7 GORDON AVE LAWRENCEVILLE, NJ 08648-1088 JOANEM, JOLITHA 2310 BRUNSWICK AVE	2102	1	
KOWAL, TADEUSZ 45 JOFFRE AVE LAWRENCEVILLE, NJ 08648	2001	43.01	LAWRENCEVILLE, NJ 08648 PETRINE PROPERTIES, LLC	2102	2, 3	
SHARMA, KULBHUSHAN 88 JOFFRE AVE LAWRENCEVILLE, NJ 08648	2001	45.01 47–50,	2304 BRUNSWICK AVE LAWRENCEVILLE, NJ 08648 2480 BRUNSWICK, LLC	2102	4	
56-59 BURKE, TIMOTHY B & BRENDA S	2001	17 50,	5522 FT. HAMILTÓN PARKWAY BROOKLYN, NY 11219 NAGARAJ, CHAM V ATTN: LISA A Z	2201 OI NA	16	
1 JOFFRE AVE LAWRENCEVILLE, NJ 08648	2001	51-54	1650 MARKET ST, STE 1800			

TOWNSHIP OF LAWRENCE MERCER COUNTY, NEW JERSEY





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ZONING BOARD OF ADJUSTMENT APPROVAL

PREPARED BY DYNAMIC ENGINEERING CONSULTANTS, P.C. 1904 MAIN STREET

LAKE COMO, NJ 07719 WWW.DYNAMICEC.COM

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			LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIR	ONMENTAL • SURVEY • P	F: 732.974.3521 www.dynamicec.com
			Allen, Texas T: 972.534.2100 Austin, Texas T: 267.685.0276 Delray Beach, Florid	/ T: 973.755.7200 Toms River, New Jersey T ton, Texas T: 281.789.6400	
	ENTS		COVER SHEE	ΞT	
	COMMENTS		PROJECT: RPM DEVELOPMENT, LLC PROPOSED RESIDENTIAL DEVELOPMENT	JOB No: 1279-99-010	DATE: 04/15/2020
	TOWNSHIP		BLOCK 2001, LOTS 3, 60-66, & 68 2495 BRUNSWICK PIKE (A.K.A. ALT ROUTE 1) TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY	DRAWN BY: GMC DESIGNED BY: LPG	SCALE: (H) AS (V) SHOWN SHEET No:
	PER	Comments		CHECKED BY: TJM	JOHEET NO.
+	O REV.	Сол	JOHN A. PALUS THOMAS J. MULLER	CHECKED BY:	
	10/07/20	Date	Thomas & Mully	PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCHANGINES, OR ANY PERSON	0F 23
\dagger	1	ev.	PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975 PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 52179	PREPAREN TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:	Rev. # 1
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BOARD ENGINEER



PREPARED BY DYNAMIC SURVEY, LLC 1904 MAIN STREET

MONTCLAIR, NJ 07042 . OWNER: LAWRENCE SHOPPING CENTER ASSOCIATION 112 WEST 34th STREET #2106 NEW YORK, NY 10120

RPM_DEVELOPMENT

. APPLICANT:

5. ZONE:

BLOCK 2001, LOTS 3, 60-66, & 68 TOWNSHIP OF LAWRENCE 4. PARCEL DATA: MERCER COUNTY, NJ

ZONE R-4 (RESIDENTIAL ZONE) (LOTS 60-66) 6. EXISTING USE:

OFFICES (PERMITTED USE) (§ 420.B.10.)

SALES OF GOODS AND SERVICES (PERMITTED USE) (§ 420.B.11.) SHOPPING CENTER (PERMITTED USE) (§ 420.B.13) . PROPOSED USE:

ZONE HC (HIGHWAY COMMERCIAL ZONE) (LOT 3 & 68)

SHOPPING CENTER (PERMITTED USE) (§ 420.B.13) TOWNHOUSE, QUADRAPLEX OR APARTMENT DWELLINGS (NON-PERMITTED USE IN THE R-4 ZONE) (§ 407.D.3) & (HC ZONE) (NON-PERMITTED USE IN THE HC ZONE) (§ 420.B)

S AND SERVICES (PERMITTED USE) (§ 420.B.11.)

B. SCHEDULE OF ZONING REQUIREMENTS (\$ 40)	7.D & 420.E.(1))				
ZONE REQUIREMENT	ZONE HC	R-4 ZONE	EXISTING	PROPOSED LOT 2.01	PROPOSED LOT 2.02
MINIMUM LOT AREA	40,000 SF	60,000 SF	2,272,718 SF (52.17 Ac)	2,102,128 SF (48.26 Ac)	170,590 SF (3.92 Ac)
MINIMUM LOT FRONTAGE	200 FT	150 FT	135.2 FT (E)	135.2 FT (E)	720.0 FT
MINIMUM LOT WIDTH	200 FT	N/S	1,530.4 FT	1,530.4 FT	716.3 FT
MINIMUM LOT DEPTH [1]	175 FT	N/S	278.7 FT	470.2 FT	243.8 FT
MINIMUM FRONT YARD SETBACK [2]	25 FT	50 FT	104.4 FT	104.4 FT	25.2 FT
MINIMUM SIDE YARD SETBACK [2]	25 FT	40 FT	46.5 FT	46.5 FT	32.6 FT (V)
MINIMUM REAR YARD SETBACK [2]	60 FT	50 FT	68.2 FT	119.2 FT	25.0 FT (V)
MAXIMUM FLOOR AREA RATIO	[6]	0.50	0.16 (365,340 SF)	0.17 (365,340 SF)	0.51 (87,283 SF) (V)
MAXIMUM IMPERVIOUS SURFACE RATIO	[7]	N/S	0.69 (1,564,553 SF)	0.74 (1,564,553 SF)	0.48 (81,534 SF)
MAXIMUM BUILDING HEIGHT	35 FT	35 FT	33.6 FT	33.6 FT	39.8 FT (V)
MINIMUM SIDE YARD SETBACK (ACCESSORY BUILDING)	20 FT	N/A	194.6 FT	194.6 FT	N/A
MINIMUM REAR YARD SETBACK (ACCESSORY BUILDING)	20 FT	N/A	17.7 FT (E)	17.7 FT (V)	N/A
MINIMUM DISTANCE TO OTHER BUILDING (ACCESSORY BUILDING) [3]	25 FT	N/A	N/A	N/A	18.0 FT (V)
MINIMUM DISTANCE TO OTHER BUILDING (ACCESSORY BUILDING) [4]	50 FT	N/A	19.4 FT (E)	19.4 FT (E)	N/A
MAXIMUM HEIGHT (ACCESSORY BUILDING)	20 FT	N/A	< 20 FT	< 20 FT	N/A
MINIMUM USABLE YARD AREA	N/S	20% EACH YARD	N/S	N/S	55.2% (94,209 SF)
N/S: NO STANDARD N/A: NOT APPLICA	ABLE (E): EXISTING	G NON-CONFORMANCE	(V): VARIANCE	1	

1 LOT DEPTH: THE SHORTEST HORIZONTAL DISTANCE BETWEEN THE FRONT LOT LINE AND A LINE DRAWN PARALLEL TO THE FRONT LOT LINE THROUGH THE MIDPOINT OF THE REAR LOT LINE. (\$201) ANY REQUIRED YARD OR REQUIRED SETBACK SHALL BE MEASURED FROM THE CLOSEST EDGE OF ANY BUFFER REQUIRED BY THE DELAWARE AND RARITAN CANAL COMMISSION. (\$400.C.4) WHEN THE SEPARATION AREA IS NOT USED FOR PARKING OR VEHICULAR CIRCULATION. (§420.E.2.D) 41 WHEN THE SEPARATION AREA IS USED FOR PARKING OR VEHICULAR CIRCULATION. (§420.E.2.E)

NO ACCESSORY BUILDING SHALL BE PERMITTED IN THE FRONT YARD. (§420.E.2.A) 7 0.70 FOR LOTS LESS THAN 5 ACRES, 0.75 FOR LOTS 5 ACRES OR LARGER

A. THE MINIMUM WIDTH OF LANDSCAPE ISLANDS SHALL BE EIGHT (8) FEET ON THE SIDE OF PARKING SPACES AND TEN (10) FEET BETWEEN PARKING BAYS (§ 525.L.1.)
B. LANDSCAPE ISLANDS SHALL BE PLANTED WITH A COMBINATION OF DECIDUOUS TREES, EVERGREEN AND DECIDUOUS SHRUBS, AND GROUND COVER AT THE RATE OF 6 LARGE

OR MEDIUM TREES, 4 SMALL OR ORNAMENTAL TREES AND 60 SHRUBS PER 100 LINEAL FEET ALONG THE LONG AXIS OF THE ISLAND (§ 525.L.2.)
C. PARKING AND LOADING AREAS SHALL BE SCREENED BY A COMBINATION OF BERMS, HEDGES, FENCES OR WALLS. THE MINIMUM SCREENING HEIGHT AT PLANTING SHALL BE 3

FEET AND SHALL HAVE A HEIGHT OF AT LEAST 4 FEET WITHIN THREE YEARS OF INSTALLATION (§ 525.L.3.)

D. NO MORE THAN TWENTY (20) PARKING SPACES SHALL BE PLACED IN ONE ROW OF PARKING WITHOUT AN INTERVENING LANDSCAPE ISLAND (§ 525.L.5.)

E. ALL REQUIRED OFF-STREET PARKING AND LOADING FACILITIES SHALL BE LOCATED ON THE SAME LOT OR PREMISES AS THE USE SERVED (§ 530.B.)

F. FOR RESIDENTIAL DEVELOPMENTS, OFF-STREET PARKING SHALL BE PROVIDED AS REQUIRED IN N.J.A.C. 5:21-1. (SEE ALSO TABLE 5.2). (§ 530.C.1)

. FOR RESIDENTIAL USES, PARKING SPACES SHALL BE NINE (9) FEET BY EIGHTEEN (18) FEET. (§ 530.D.1 . Parking lots shall be set back from all lot lines à minimum of 25 feet unless a larger sétback is required (§ 530.F.) (V)

PARKING SHALL NOT BE PERMITTED TO BE LOCATED IN ANY REQUIRED LANDSCAPING BUFFER (§ 530.F.) SETBACKS SHALL BE REQUIRED FROM ANY PUBLIC STREETS AND FROM PRIVATE INTERNAL COLLECTOR ACCESS ROADS THAT SERVE A PARKING LOT (§ 530.F.)

i. SETBACK MEASUREMENTS SHALL BE FROM THE RIGHT-OF-WAY OF A PUBLIC STREET AND FROM THE CURBLINE OF A PRIVATE STREET TO THE NEAREST PARKING

SPACE (§ 5.30.F.)
K. WHERE PARKING AREAS OF THE REGIONAL SHOPPING MALL ABUT PARKING AREAS ON CONTIGUOUS PROPERTY THE REQUIRED SETBACK FROM THE COMMON LOT LINE SHALL

FOR HANDICAPPED PARKING, THE MAXIMUM DISTANCE FROM THE BUILDING SHALL BE ONE HUNDRED (100) FT (§ 530.I.

M. FOR RESIDENT PARKING, THE MAXIMUM DISTANCE FROM THE BUILDING SHALL BE TWO HUNDRED-FIFTY (250) FT (§ 530.1.

O. WHERE SIDEWALKS OCCUR IN PARKING AREAS, PARKED VEHICLES SHALL NOT OVERHANG OR EXTEND OVER THE SIDEWALK UNLESS AN ADDITIONAL 2 FEET IN WIDTH IS

PROVIDED IN ORDER TO ACCOMMODATE SUCH OVERHANG (§ 530.1.6.)

P. PARKING CALCULATION (LOTS 3, 60-66, 68)(§ 504.N.Table 5.2):

BEDROOM GARDEN APARTMENT: 8 UNITS X 1.8 SPACES/UNIT = 14.4 SPACES BEDROOM GARDEN APARTMENT: 37 UNITS X 2.0 SPACES/UNIT 3 BEDROOM GARDEN APARTMENT: 25 UNITS X 2.1 SPACES/UNIT = 52.5 SPACES

TOTAL SPACES PROPOSED: = 102 SPACES (INCLUDES 43 SPACES ON SHOPPING CENTER) (V)

A. RESIDENTIAL DRIVEWAYS SHALL BE SET BACK 5 FEET FROM THE SIDE OR REAR PROPERTY LINE. THIS REQUIREMENT, HOWEVER, SHALL NOT PREVENT ACCESS FROM AN THE MINIMUM LENGTH OF THE ACCESS DRIVE SHALL BE FIFTY (50) FEET FOR PARKING LOTS WITH FORTY (40) TO NINETY-NINE (99) TOTAL PARKING SPACES (
ACCESS POINTS FROM ANY ONE LOT CROSSING THE STREET LINE SHALL BE LIMITED TO A MAXIMUM OF TWO ALONG THE FRONTAGE OF ANY SINGLE STREET. TH CENTERLINES OF ANY SEPARATE ACCESS POINTS SHALL BE SPACED AT LEAST SIXTY—FIVE (65) FEET APART, SHALL HANDLE NO MORE THAN TWO (2) DIRECTIONS OF TRAFFIC; SHALL BE AT LEAST TWENTY (20) FEET FROM ANY SIDE OR REAR PROPERTY LINES; AND SHALL BE SET BACK FROM THE STREET LINE OF ANY INTERSECTING STREET AT LEAST FIFTY (50) FEET OR ONE-HALF THE LOT FRONTAGE, WHICHEVER IS GREATER, EXCEPT THAT IN NO CASE NEED THE SETBACK DISTANCE EXCEED TWO

TWO-WAY ACCESS DRIVES FOR NON-RESIDENTIAL AND MULTI-FAMILY USES SHALL NOT EXCEED 12 FEET PER LANE (\$ 430.0.) FOR NINETY (90) DEGREE PARKING SPACES, THE REQUIRED AISLE WIDTH FOR ONE—WAY TRAFFIC SHALL BE TWENTY—TWO (22) FEET (\$ 430.P.2.Table 5.17 F. FOR NINETY (90) DEGREE PARKING SPACES, THE REQUIRED AISLE WIDTH FOR TWO-WAY TRAFFIC SHALL BE TWENTY-FOUR (24) FEET (\$ 430.P.2.Table 5.17)

A. THERE SHALL BE NO DISTURBANCE, INCLUDING BUT NOT LIMITED TO, GRADING AND THE PLACEMENT OF BUILDINGS, WITHIN 100 FEET OF THE 100—YEAR FLOOD PLAIN OF A STREAM ALONG ALL STREAM CORRIDORS OR FROM THE UPPER BANK FOR WHICH A FLOOD PLAIN LINE HAS NOT BEEN ESTABLISHED EXCEPT FOR NECESSARY STORM WATER OUTFALL STRUCTURES AND PIPING (§ 430.J.)
B. THE MINIMUM_WIDTH OF A LANDSCAPE BUFFER SHALL BE DEPENDENT ON THE PROPOSED USE OF A PROPERTY AND THE LAND USES ADJACENT TO IT IN ACCORDANCE WITH

TABLE 5.10 (\$ 525.H.TABLE 5.10):

• 50 FT BUFFER IS REQUIRED WHEN AN APARTMENT BUILDING IS ADJACENT TO A SINGLE FAMILY HOME

• 25 FT BUFFER IS REQUIRED WHEN AN APARTMENT BUILDING IS ADJACENT TO RETAIL

• 0 FT BUFFER IS REQUIRED WHEN A DUPLEX IS ADJACENT TO A SINGLE FAMILY HOME

• 40 FT BUFFER IS REQUIRED WHEN A DUPLEX IS ADJACENT TO RETAIL

C. MINIMUM PLANT DENSITY FOR BUFFERS ARE OUTLINED IN TABLE 5.11 (\$ 525.H.TABLE 5.11)

D. ALLOWABLE REDUCTIONS IN BUFFER WIDTHS AND PLANT DENSITIES OUTLINED IN TABLE 5.12 (§ 525.H.TABLE 5.12)

12. SOLID WASTE REQUIREMENTS

A. VISUAL SCREENING IS REQUIRED TO BUFFER ALL TRASH ENCLOSURES, ABOVE GROUND PROPANE TANKS AND OTHER SIMILAR STRUCTURES (§ 525.A.8.)

B. THERE SHALL BE AT LEAST ONE TRASH AND RECYCLING PICK-UP LOCATION PROVIDED FOR EACH MULTI-FAMILY OR NON-RESIDENTIAL BUILDING WHICH SHALL BE SEPARATED FROM PARKING SPACES EITHER INSIDE OR OUTSIDE THE BUILDING. ALL TRASH AND RECYCLING LOCATIONS SHALL BE ENCLOSED AND LOCATED IN A MANNER WHICH IS OBSCURED FROM VIEW FROM PARKING AREAS, STREETS AND ADJACENT RESIDENTIAL USES OR ZONING DISTRICTS BY A FENCE, WALL, PLANTING OR COMBINATION OF THE

C. ALL EXTERIOR SOLID WASTE ENCLOSURES SHALL BE CONSTRUCTED OF MASONRY COMPATIBLE WITH THE ARCHITECTURAL MATERIALS OF THE BUILDING (§ 538.C D. IF LOCATED WITHIN THE BUILDING, THE DOORWAY MAY SERVE BOTH THE LOADING AND TRASH/GARBAGE FUNCTIONS AND IF LOCATED OUTSIDE THE BUILDING, IT MAY BE LOCATED ADJACENT TO OR WITHIN THE GENERAL LOADING AREA(S) PROVIDED THE CONTAINER IN NO WAY INTERFERES WITH OR RESTRICTS LOADING AND UNLOADING FUNCTIONS. MOREOVER, IF LOCATED OUTSIDE THE BUILDING, THE CONTAINER SHALL BE SITUATED ON THE SAME HORIZONTAL PLANE AS THE DRIVEWAY PROVIDING ACCESS TO THE CONTAINER (§ 538.D.)

13. FENCES AND WALLS REQUIREMENTS A. FENCES SHALL BE LIMITED TO EIGHT (8) FEET IN HEIGHT (§ 524.A.) B. WALLS SHALL BE LIMITED TO SIX (6) FÉET IN HEIGHT (§ 524.A.)

14. R-4 CONDITIONAL USE REQUIREMENTS (FOR REFERENCE ONLY)
A. MAXIMUM TRACT SIZE: 7 ACRES
B. MAXIMUM GROSS DENSITY: 10 UNITS PER ACRE
C. MAXIMUM NUMBER OF UNITS PER BUILDING:

) WITHIN 200 FEET OF EXISTING APARTMENT OR TOWNHOUSE USE: 30 UNITS (2) 200 FEET OR GREATER DISTANCE FROM APARTMENT OR TOWNHOUSE USE: 4 UNITS
MINIMUM DISTANCE BETWEEN BUILDINGS: 40 FEET
MINIMUM DISTANCE FROM TRACT PERIMETER: 50 FEET

MAXIMUM HEIGHT:

WITHIN 200 FEET OF EXISTING APARTMENT OR TOWNHOUSE USE: 32 FEET OR 2 STORIES (2) 200 FEET OR GREATER DISTANCE FROM APARTMENT OR TOWNHOUSE USE: 28 FEET OR 1.5 STORIES
G. AGE-RESTRICTED APARTMENTS SHALL BE PERMITTED A COMMON ACTIVITY ROOM AND A COMMON LAUNDRY WITHIN THE CONFINES OF THE BUILDING

H. QUADRAPLEXES AND TOWNHOUSES MARKETED ON A FEE SIMPLE BASIS SHALL CONFORM TO THE LOT REQUIREMENTS OF §410.G.3 AND -.4, RESPECTIVELY.

ANY OTHER STANDARD NOT MODIFIED HEREIN SHALL APPLY.

A. ALL BUILDINGS SHALL BE SEPARATED BY A MINIMUM OF 25 FEET PROVIDED SUCH SEPARATION IS TO BE USED SOLELY FOR PEDESTRIAN CIRCULATION. ALL BUILDINGS SHALL BE SEPARATED BY A MINIMUM OF 50 FEET WHEN ANY PART OF SUCH SEPARATION IS TO BE USED FOR PARKING OR VEHICULAR CIRCULATION. HOWEVER, THE SEPARATION REQUIREMENTS SHOULD NOT BE CONSTRUED TO PROHIBIT COVERED PEDESTRIAN WALKWAYS WHEN THE ROOF OR COVERING OF SUCH WALKWAY EXTENDS BETWEEN THE

BUILDINGS (\$ 420.F.2) (W)

B. WHERE APPROPRIATE, AGREEMENTS PROVIDING FOR CROSS ACCESS FOR PEDESTRIANS AND VEHICLES BETWEEN ADJACENT LOTS OR TRACTS SHALL BE PROVIDED TO REDUCE THE AMOUNT OF TRAFFIC ON ADJACENT ROADS (§ 420.F.6)

C. APARTMENT BUILDINGS SHALL NOT EXCEED 240 LINEAL FEET THROUGH THE LONG AXIS OF THE BUILDING. LONGER BUILDINGS SHALL INTRODUCE AT LEAST A 135 DEGREE

ANGLE AT THE INTERSECTION OF THE AXES BETWEEN DIFFERENT SEGMENTS OF THE BUILDING (§ 531.A.2 D. ACCESS TO ANY UNIT SHOULD NOT REQUIRE A VERTICAL ASCENT OF OVER TWO STORIES (§ 531.A.8) (W)

GENERAL NOTES (CONTINUED)

16. THE APPLICANT REQUESTS ANY AND ALL SUBMISSION WAIVERS THAT ARE NOT SPECIFICALLY IDENTIFIED HEREIN. TESTIMONY WILL BE SUPPLIED AT THE PUBLIC HEARING TO SUPPORT

17. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING

19. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER CONSTRUCTION MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT & PLANS

18. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.

20. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.

21. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.

22. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

23. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

24. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION 25. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

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

27. NEITHER THE PROFESSIONAL ACTIVITIES OF DYNAMIC ENGINEERING CONSULTANTS, P.C., NOR THE PRESENCE OF DYNAMIC ENGINEERING CONSULTANTS, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. DYNAMIC ENGINEERING CONSULTANTS, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSTIE SAFETY. DYNAMIC ENGINEERING CONSULTANTS, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE

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

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

30. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS. . IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND IT SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CONNECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING

32. ALL TRAFFIC SIGNS AND STRIPING SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. 33. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED. 34. CONTRACTOR ACKNOWLEDGES HE HAS READ AND UNDERSTOOD THE DESIGN PHASE SOIL PERMEABILITY AND GROUNDWATER TEST RESULTS IN THE STORMWATER MANAGEMENT REPORT AND THAT THE CONTRACTORS RESPONSIBILITIES INCLUDE NECESSARY PROVISIONS TO ACHIEVE THE DESIGN PERMEABILITY IN THE FIELD. 35. CONTRACTOR TO BE ADVISED THAT THE ENGINEER WAS NOT PROVIDED WITH FINAL FLOOR PLAN DRAWINGS FOR THE BUILDING AT THE TIME OF SITE PLAN DESIGN. AS A RESULT, ENTRANCE DOOR LOCATIONS AS DEPICTED HEREON MAY NOT BE FINAL AND MUST BE CONFIRMED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH NJAC 5:23-7 AND THE HANDICAP PARKING SPACES MUST BE LOCATED AS THE NEAREST SPACES TO THE ENTRANCE. CONTRACTOR TO NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

DEMOLITION NOTES

1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.

3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.

4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.

5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.

6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.

7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS. FLOORS. OR FRAMING.

8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).

9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS. FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING, ALL OTHER FOUNDATION SYSTEMS. INCLUDING BASEMENTS. SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR. BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.

10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.

11. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. 12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.

13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS. AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR

14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.

15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO

16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.

17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.

18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY

. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.

. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING. . ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN—OUT FOR SEWER AND THE SHUT—OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.

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

PLANTING NOTES

ANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP. E CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT

SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.

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

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

CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS SHALL 5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD WILL BE PELEVERY. ANY PLANTS NOT INSTALLED DIRECTED.

DURING IHIS PERIOD WILL BE REJECTED.

7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (REV. 2001) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.

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

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

10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCORDANCE WITH ACCORDANCE WITH ACCORDANCE WITH AND SOIL CONDITIONS ARE SUITABLE AND IN

PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH 'WILT-PRUF' OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.

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

2. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT. 13. ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1, OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED.

AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES AS A RESULT OF CONSTRUCTION OPERATIONS. ALL EXISTING TREES SHALL BE FERTILIZED WITH A REGULAR GARDEN FERTILIZER (5-10-5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS AND FILLED AROUND WITH TOPSOIL COMPLETELY SATURATE THESE AREAS WITH WATER. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR IS TO PROTECT ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE ROOT MASS.

16. ALL PLANTING BEDS SHALL BE MULCHED WITH 4" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.

17. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.

18. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSTALLED, INSPECTED AND APPROVED BY THE MUNICIPAL LANDSCAPE ARCHITECT. THE MUNICIPAL ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OF TREE PLANTING PROPOSED. OR SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:

3/15 TO 12/15 PLANTS 3/15 TO 6/15 LAWN 9/15 TO 12/

ARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGING THESE

ACER RUBRUM PRUNUS VARIETIES
PYRUS VARIETIES
QUERCUS VARIETIES BETULA VARIETIES CARPINUS VARIETIES CRATAEGUS VARIETIES KOELREUTERIA SALIX WEEPING VARIETIES TILIA TOMENTOSA IQUIDAMBAR STYRACIFLUA LIRIODENDRON TULIPIFERA PLATANUS ACERFOLIA ZELKOVA VARIETIES

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL BY THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING, FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION, THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON. 19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL SEED SOD STABILIZATION METHOD.

PLANTING SPECIFICATIONS

CONTRACTOR'S EXPENSE.

HIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, DOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

A. GENERAL - ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWA'

AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.
PLANTS – ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
TOPSOIL – LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, PH RANGE BETWEEN 4.5 – 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO INCHES (2"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.

D. MULCH - FOUR (4") INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH. 3. FERTILIZER AND SOIL CONDITIONER - PLANTED AREAS . ORGANIC FERTILIZER — SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS' B. ORGANIC FERTILIZER AND SOIL CONDITIONER - SHALL BE 'GRO- POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5-3-1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS.

4. GENERAL WORK PROCEDURES

A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STOCKPILED OR DISPOSED OF. ALL PAVED SURFACES SHALL BE SWEPT CLEAN AT THE END OF EACH DAY'S WORK. 5. WEEDING
A. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE

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

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

THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS.

USE COMPOSTED BARK, RECYCLED YARD WASTE OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5. B. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.

MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX. PLANTING
POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE EXCAVATING
PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
A. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED
GRADE. EACH PLANT PIT SHALL BE BACK FILLED WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:

1 PART PEAT MOSS BY VOLUME
1 PART COW MANURE BY VOLUME
3 PARTS TOPSOIL BY VOLUME
3 PARTS TOPSOIL BY VOLUME

3 PARTS TOPSOIL BY VOLUME 21 GRAM 'AGRIFORM' PLANTING TABLETS AS FOLLOWS:
2 TABLETS PER 1 GAL. PLANT
3 TABLETS PER 5 GAL. PLANT
4 TABLETS PER 15 GAL. PLANT

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

WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE
EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.

F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT. 9. GROUND COVER ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.

SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.

IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.

ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR

) APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.

A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS .1 FOOT OF FINISH GRADE.

B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY. PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM ACCEPTANCE OF JOB. OWNER TO SECURE A MAINTENANCE BOND FROM THE

CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE COMMENCEMENT OF THE GUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE. ILEANUP N. UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE

OWNER'S AUTHORIZED REPRESENTATIVE.

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

C. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS. 3. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD.

iunicipal, county, state and mua details to supercede dynamic engineering details where applicab

UTILITY NOTES

1. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.

3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.

WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.

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

6. THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.

SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PVC PIPE UNLESS OTHERWISE DESIGNATED.

8. ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED EQUAL.

9. WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED. 10. LOCATION & LAYOUT OF GAS. ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT

OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER. 11. ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED W/

ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED. 12. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.

QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

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

14. MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRET ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM 990 TO BE UTILIZED TO PROVIDE A SILT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATERTIGHT AND CONFORM T

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

HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS. 16. HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATERTIGHTNESS PERFORMANCE

17. PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC)

EXISTING UTILITY NOTES

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

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

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

GRADING NOTES

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE SOILS DEPORT

2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND GUTTERS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1-1/2% MIN. ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY EFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.

OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75%

4. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE. SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).

6. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT

7. MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.

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

THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (908-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS 10. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNERS GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.

11. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY

12. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

this plan set is for permitting purposes only and may not be used for construct



Lake Como, NJ 0771

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SHEET No:

(V) SCALE

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GENERAL NOTES

PROJECT: RPM DEVELOPMENT, LLC PROPOSED RESIDENTIAL DEVELOPMENT BLOCK 2001, LOTS 3, 60-66, & 68 2495 BRUNSWICK PIKE (A.K.A. ALT ROUTE 1 TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY

JOHN A. PALUS | THOMAS J.,MULLER

PROFESŞIONAL ENGINEER

NEW JERSEY LICENSE No. 52179

CHECKED BY: PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: | Rev. #

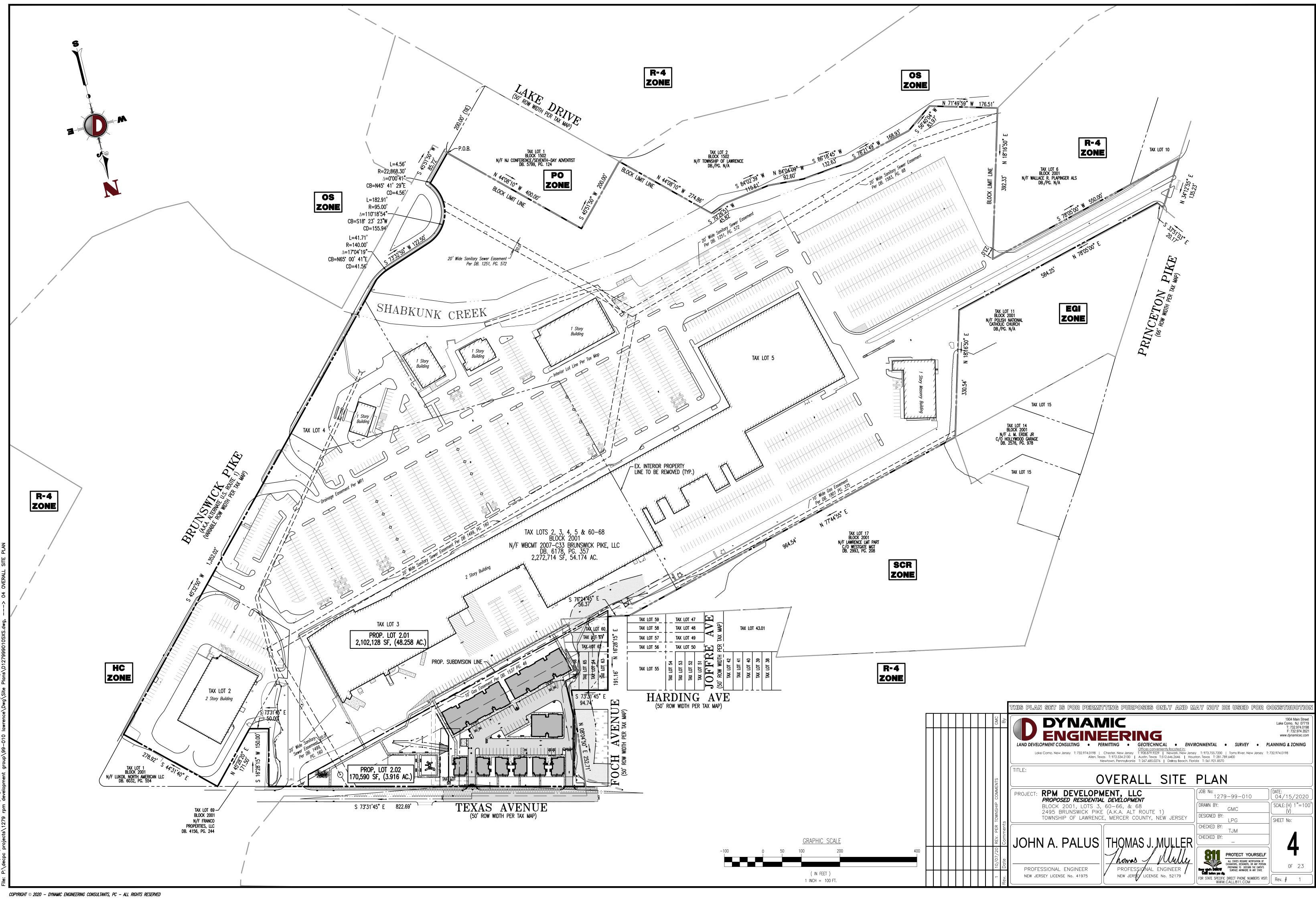
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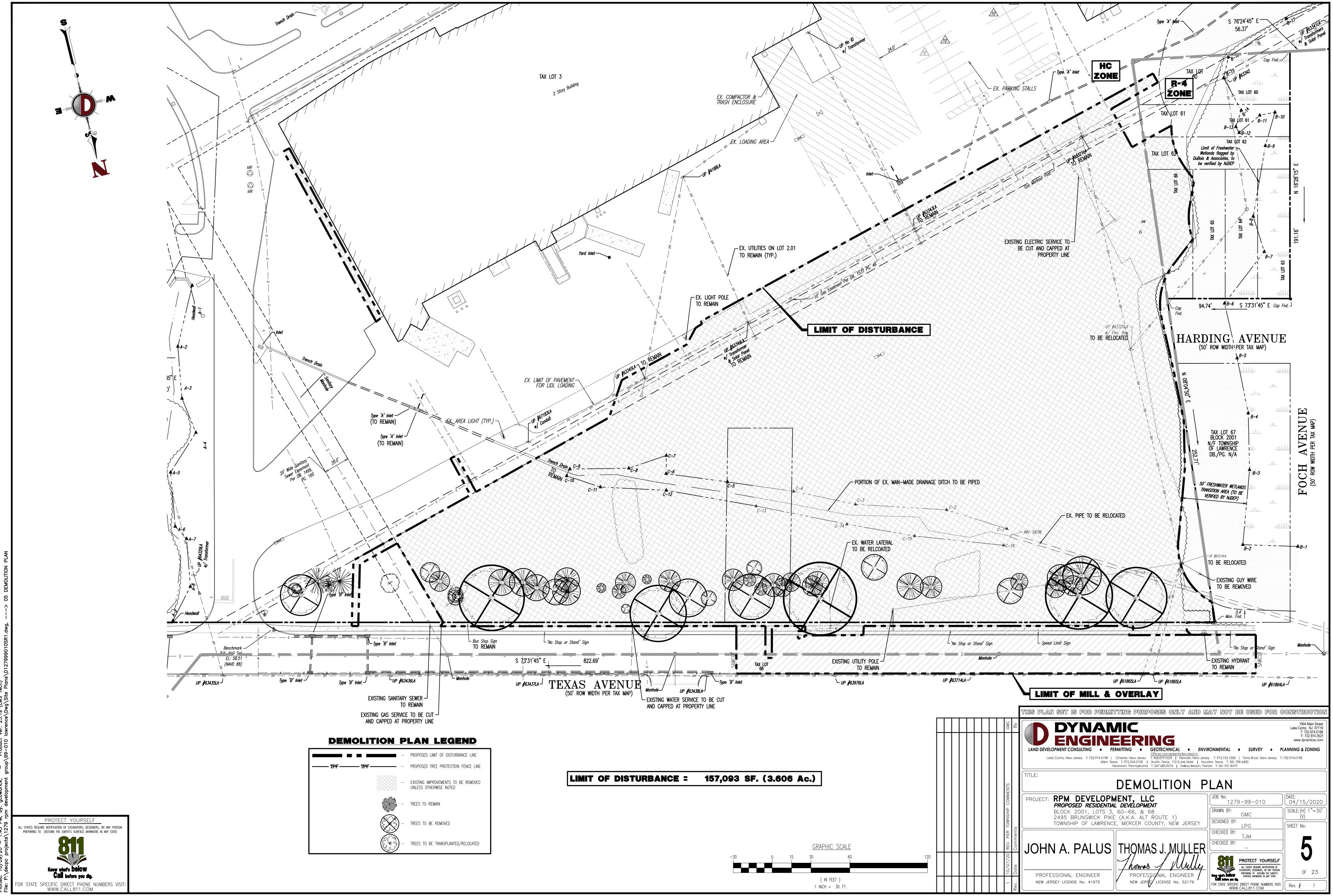
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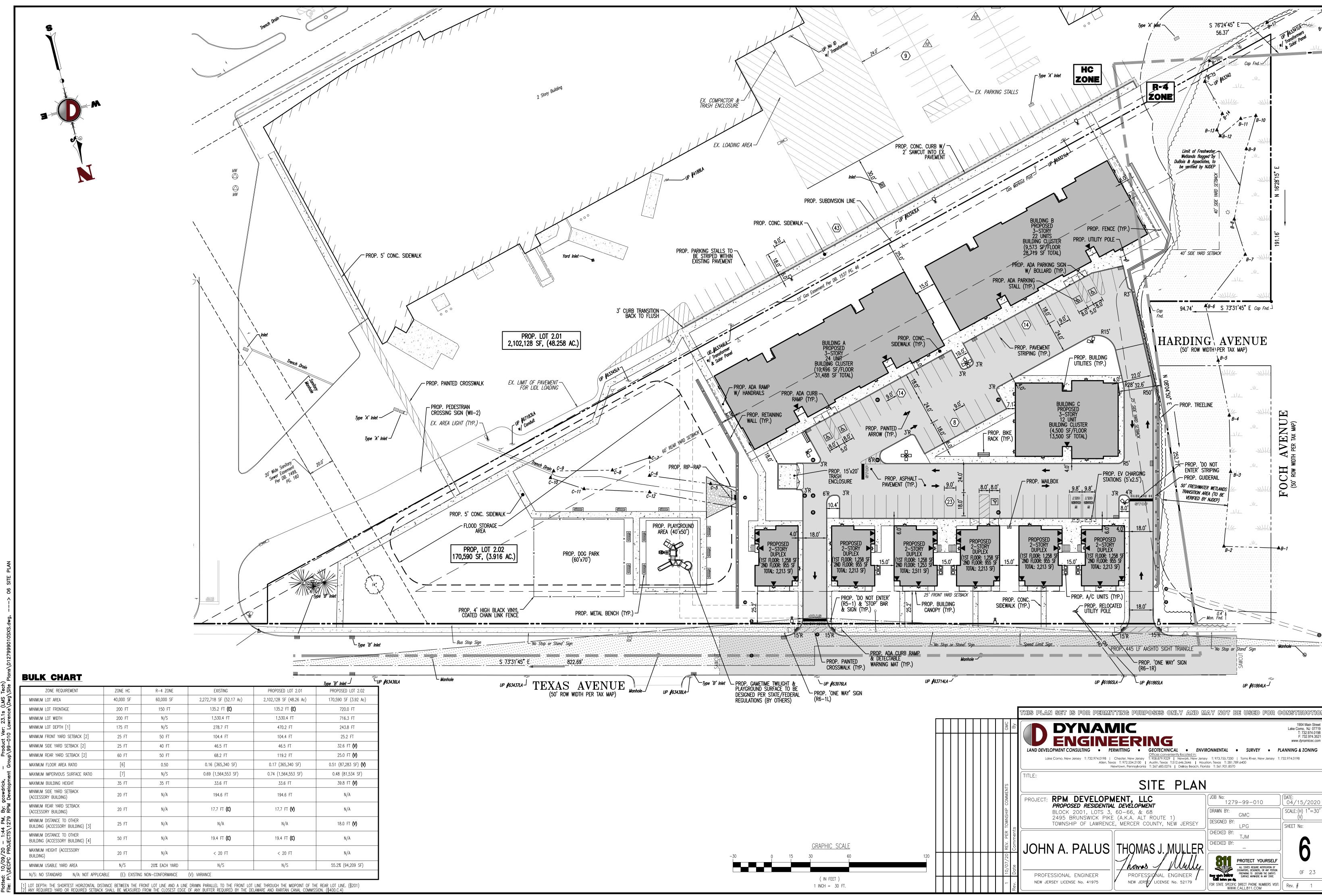
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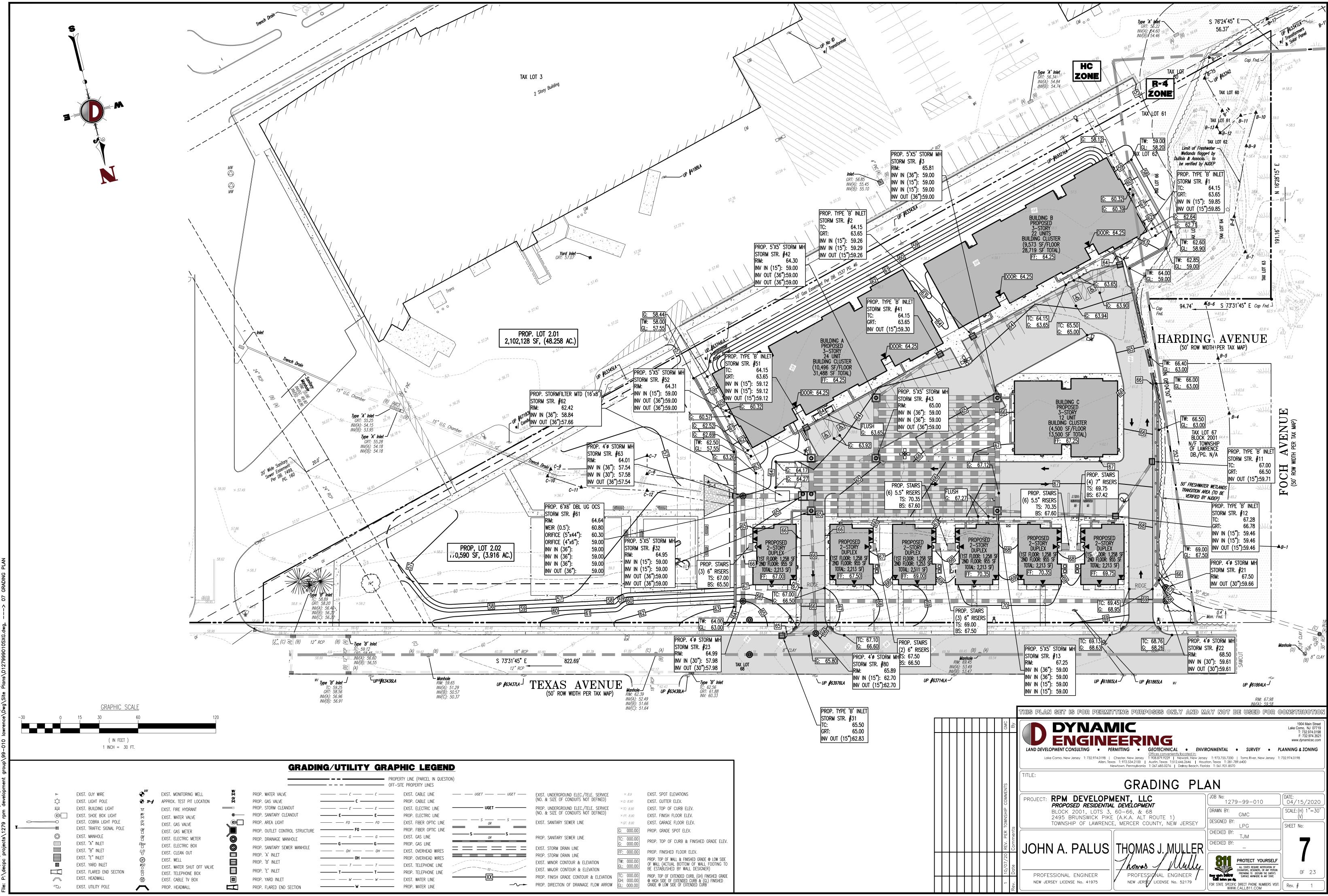
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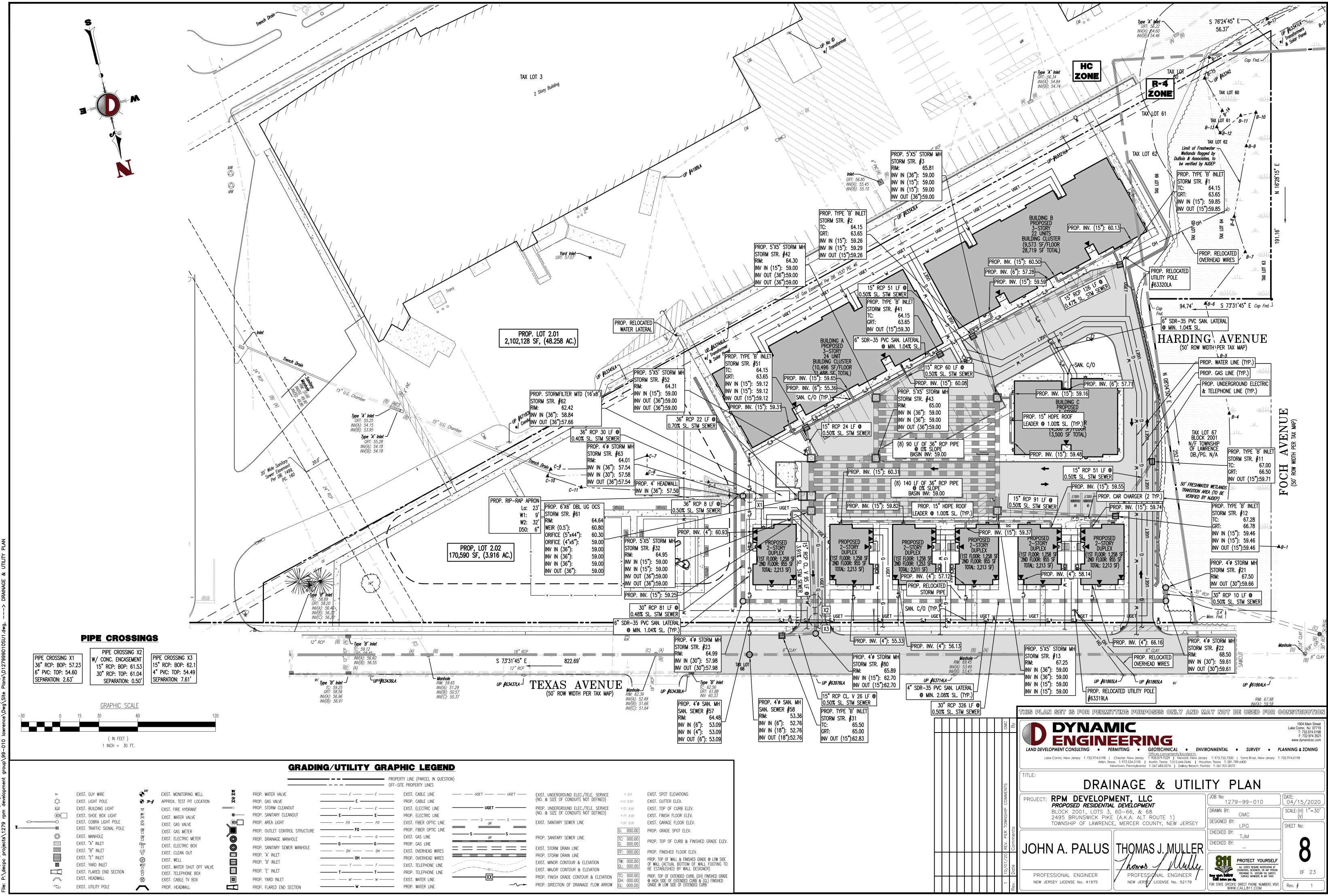
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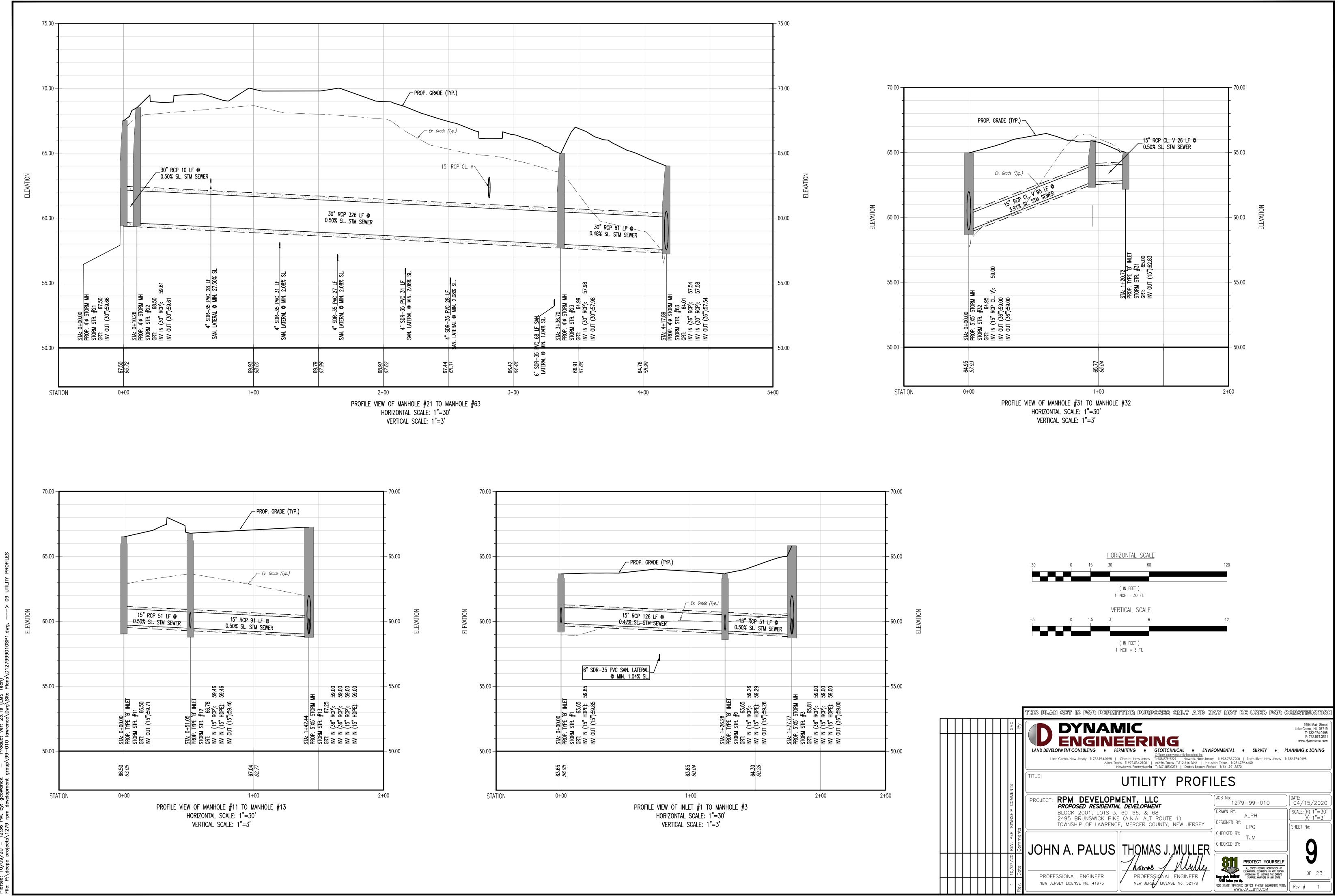


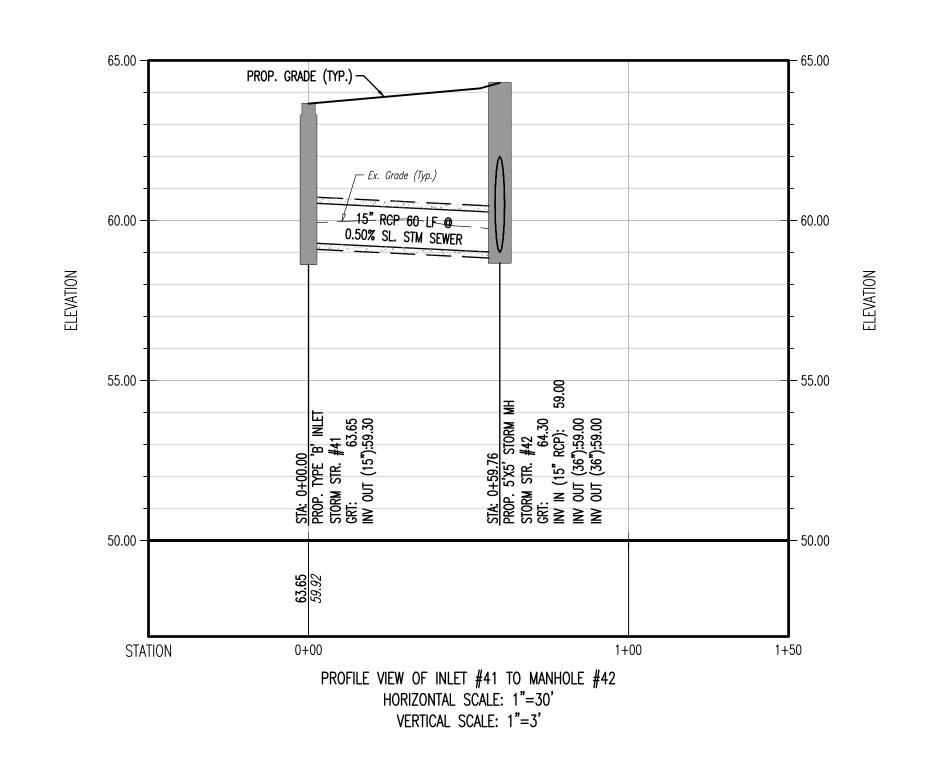


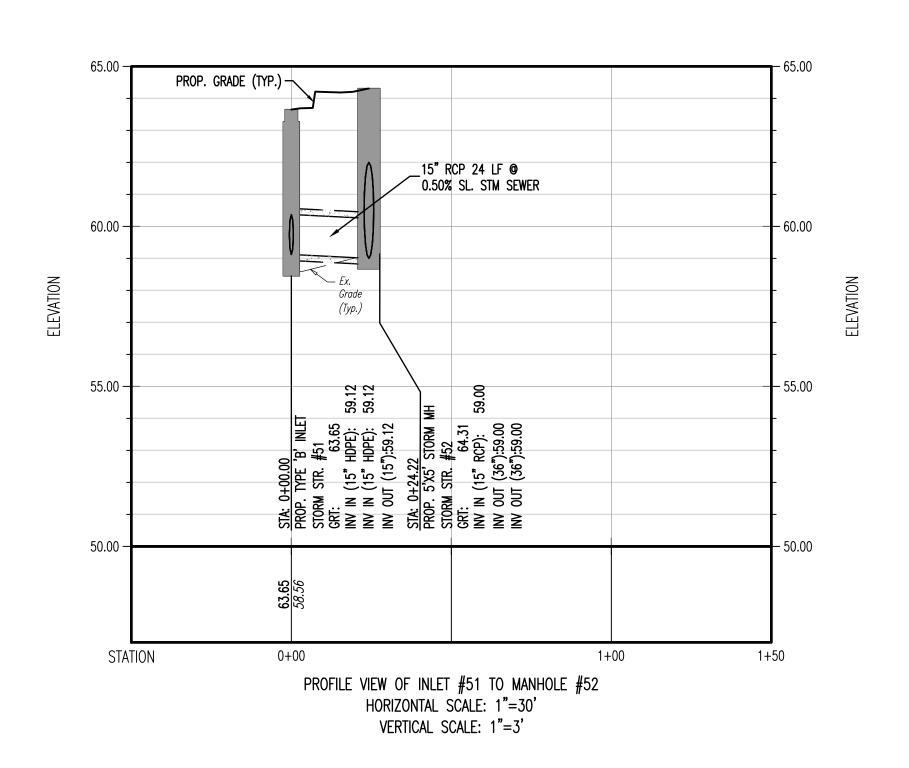


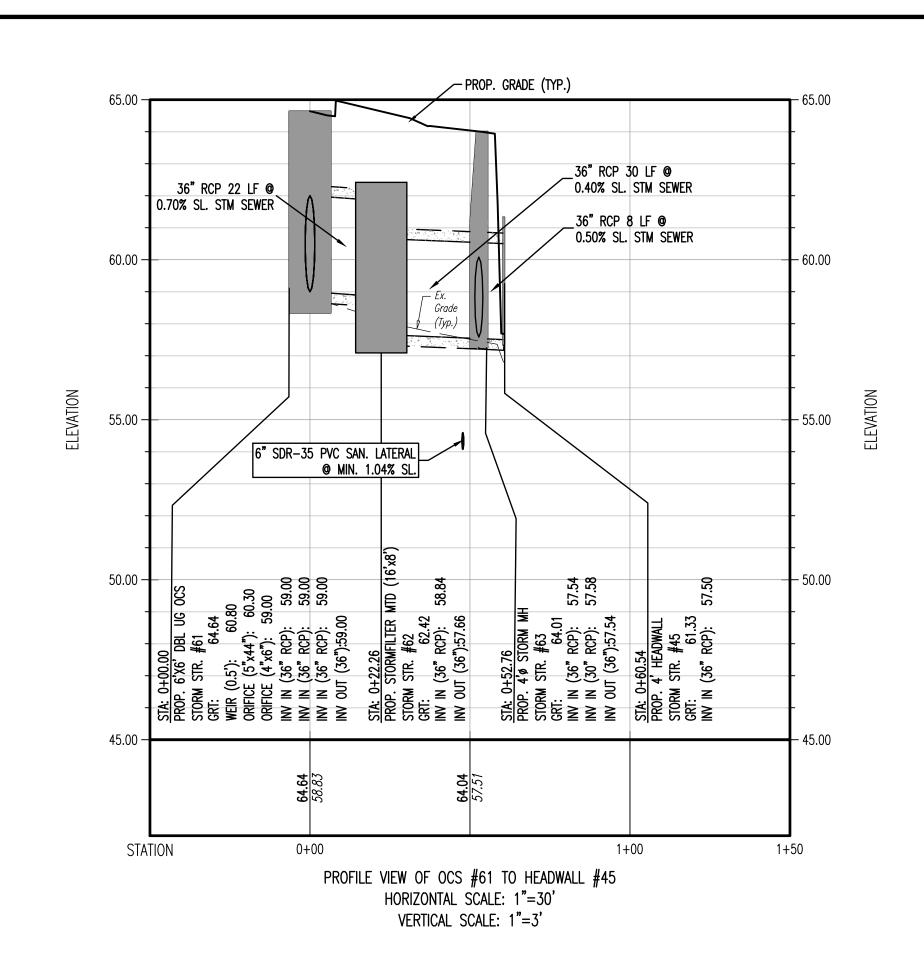


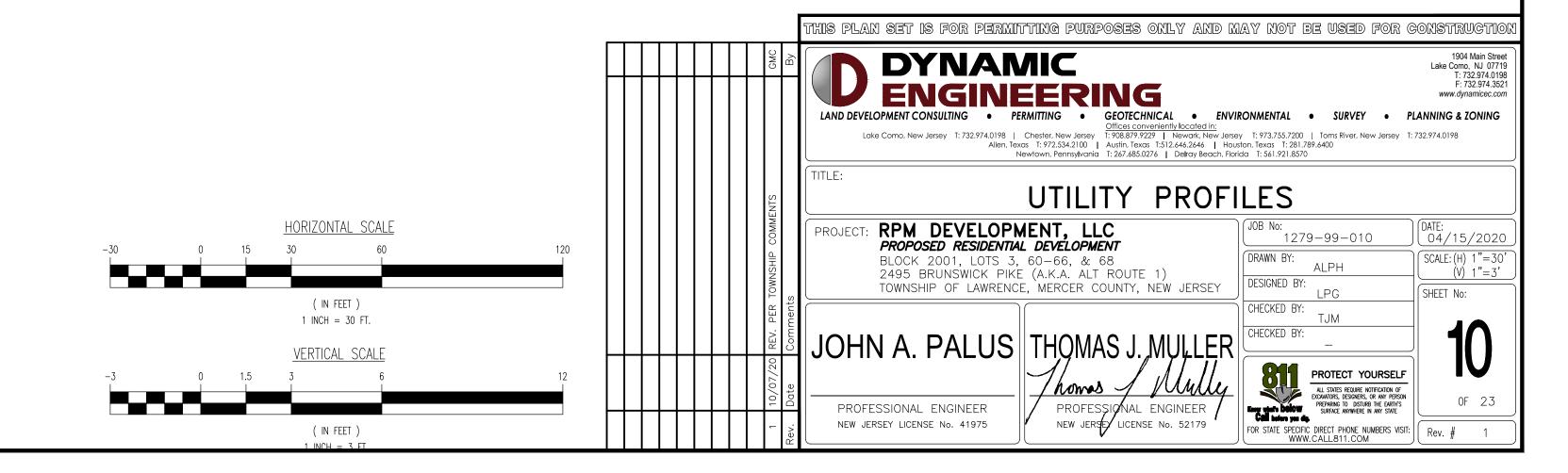


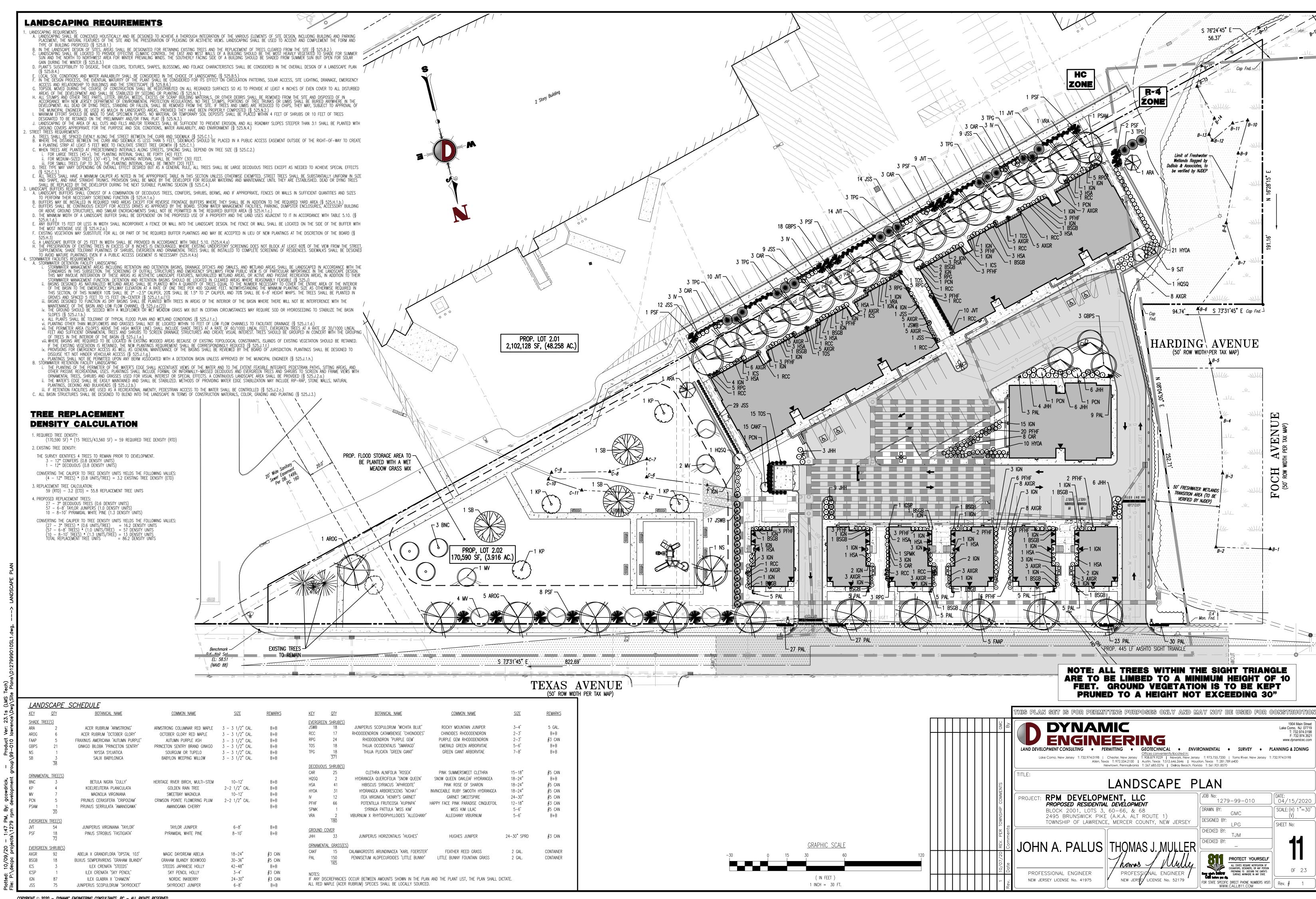


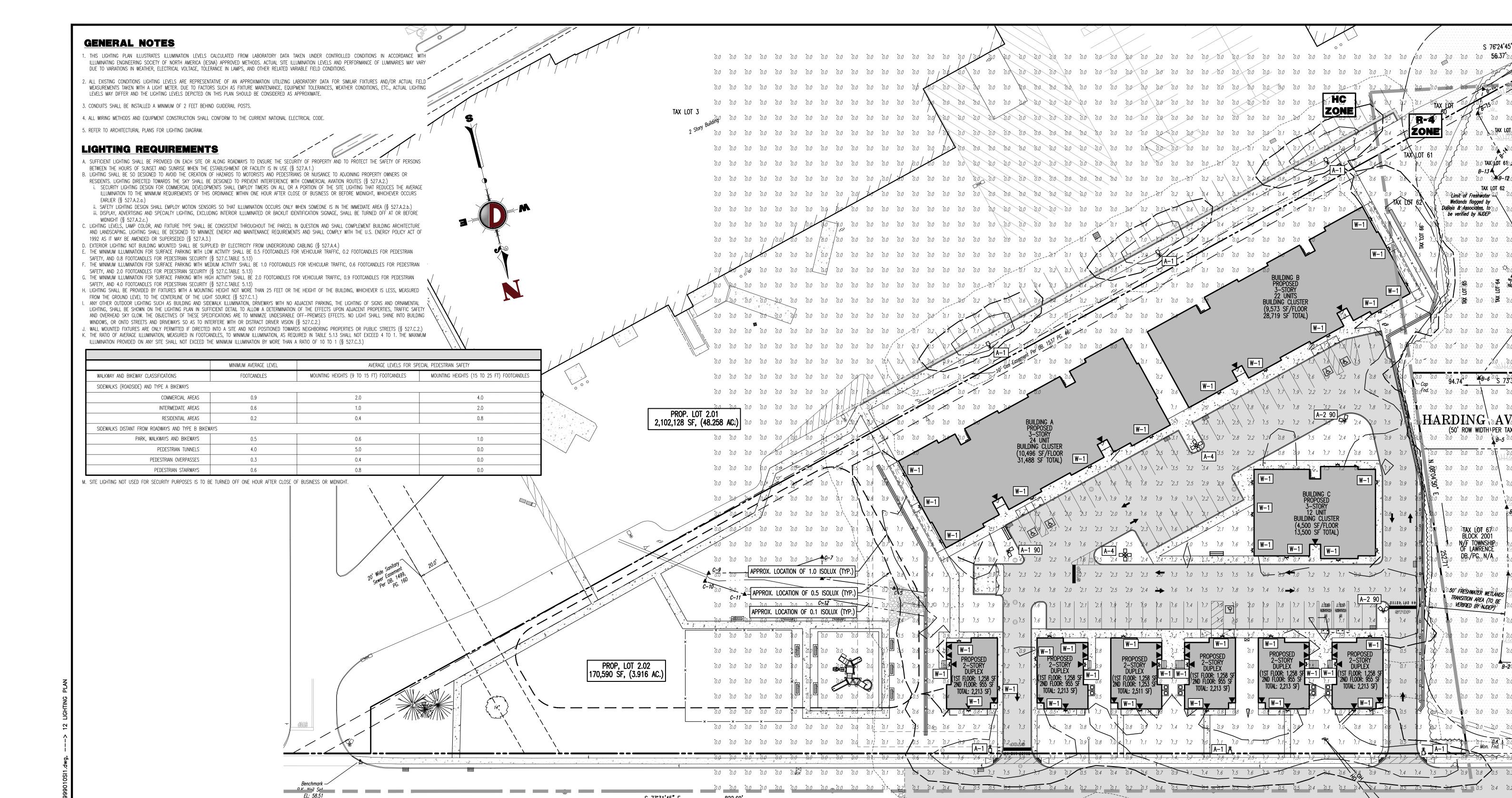












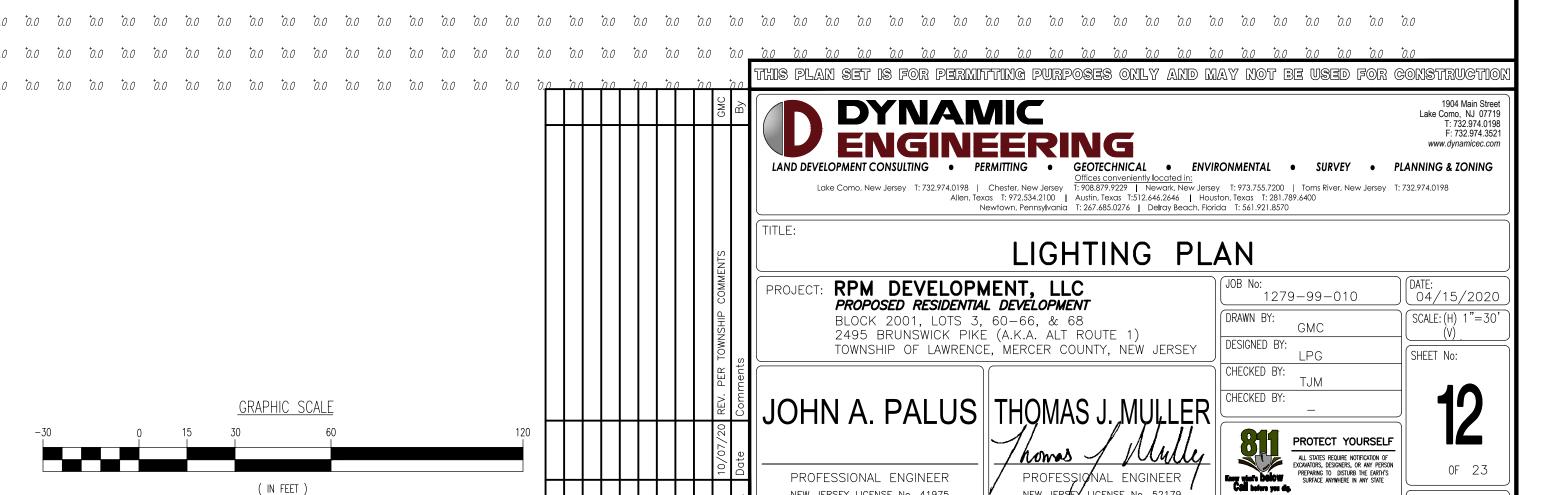
TEXAS (50' ROW WIDTH PER TAX MAP)

				LIGHTING LUMIN	AIRE SCHEDULE	
SYMBOL	QUANTITY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	MANUFACTURER	IES FILE
\Box	42	W-1	20'	SINGLE	PROGRESS LIGHTING, HUBBELL	PCOWC-20LED-20, MOUNTED 20' HIGH ON BUILDING
	2	A-2 90	20'	2 @ 90°	PROGRESS LIGHTING, HUBBELL	PCADS-27LED-3K-2-BL-2
	2	A-4	20'	4 @ 90°	PROGRESS LIGHTING, HUBBELL	PCADS-27LED-3K-2-BL-3
	6	A-1	20'	SINGLE	PROGRESS LIGHTING, HUBBELL	PCADS-27LED-3K-2-BL-2

ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC.

(FM) - FLUSH MOUNT FOUNDATION (PED) - PEDESTAL FOUNDATION THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).

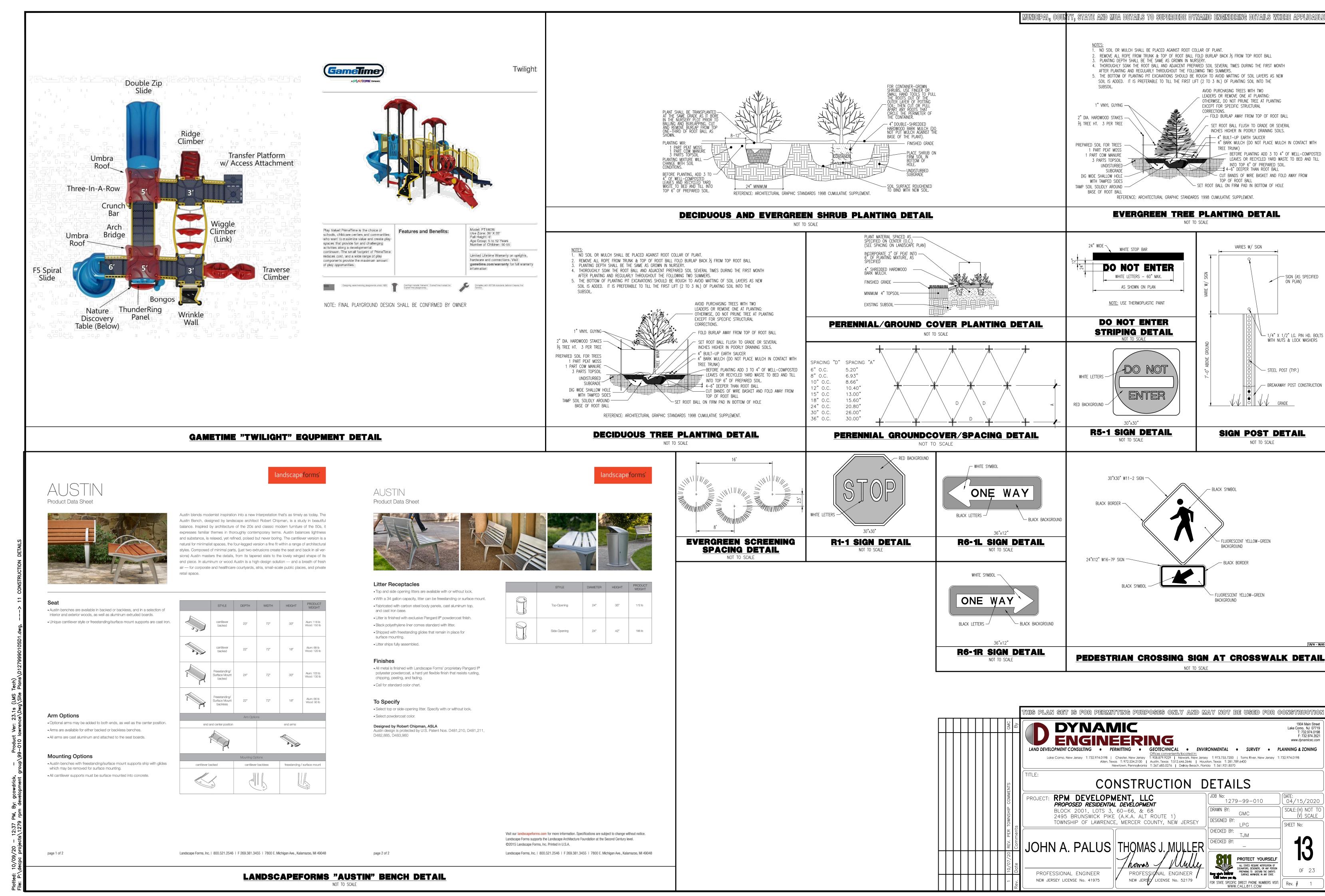
		STATISTICAL A	REA SUMMARY		
LABEL	AVERAGE	MAXIMUM	MINIMUM	AVG./MIN.	MAX./MIN.
PIQ	0.68	4.6	0.0	N.A	N.A
PAVEMENT AREA	1.68	4.4	0.0	N.A	N.A

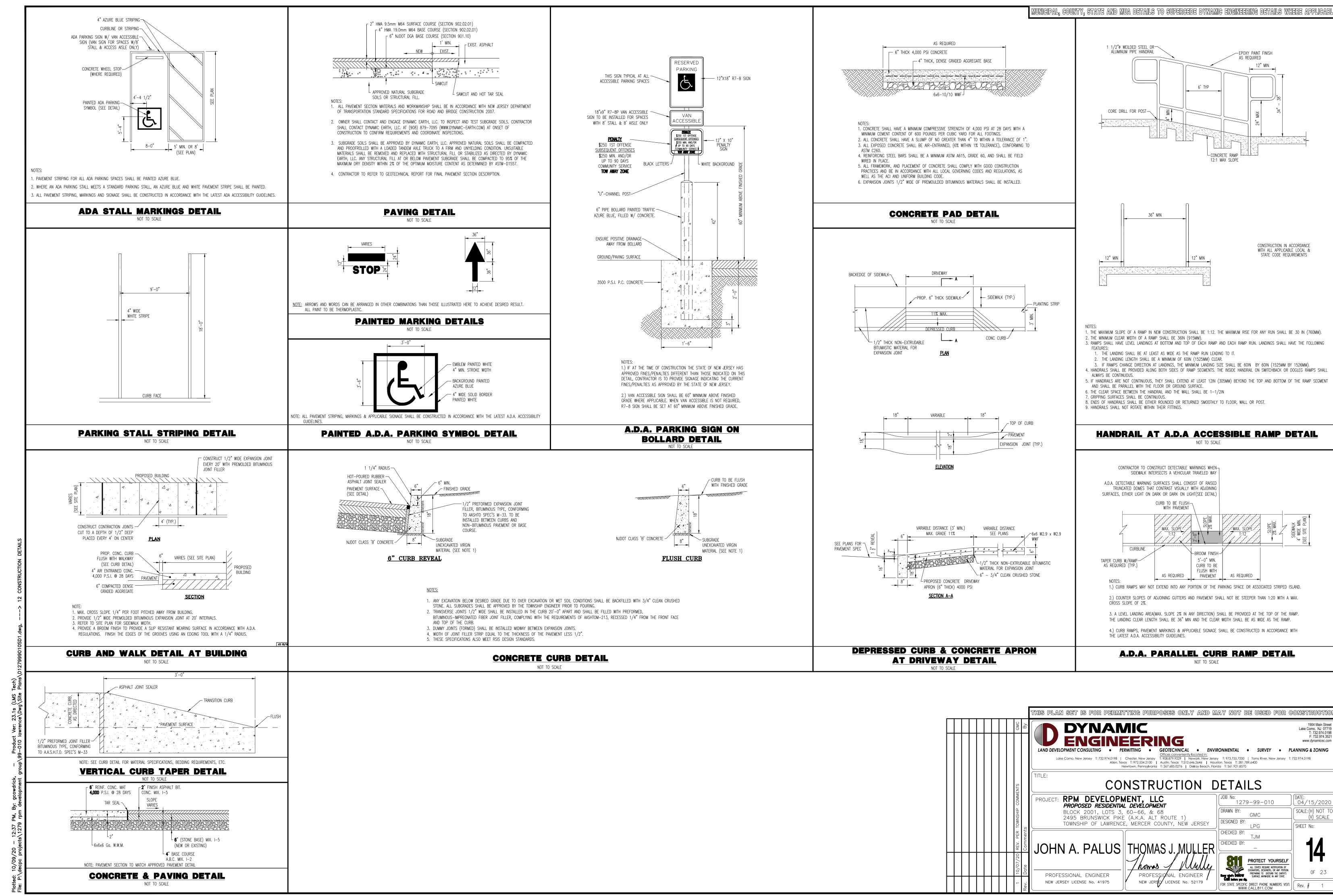


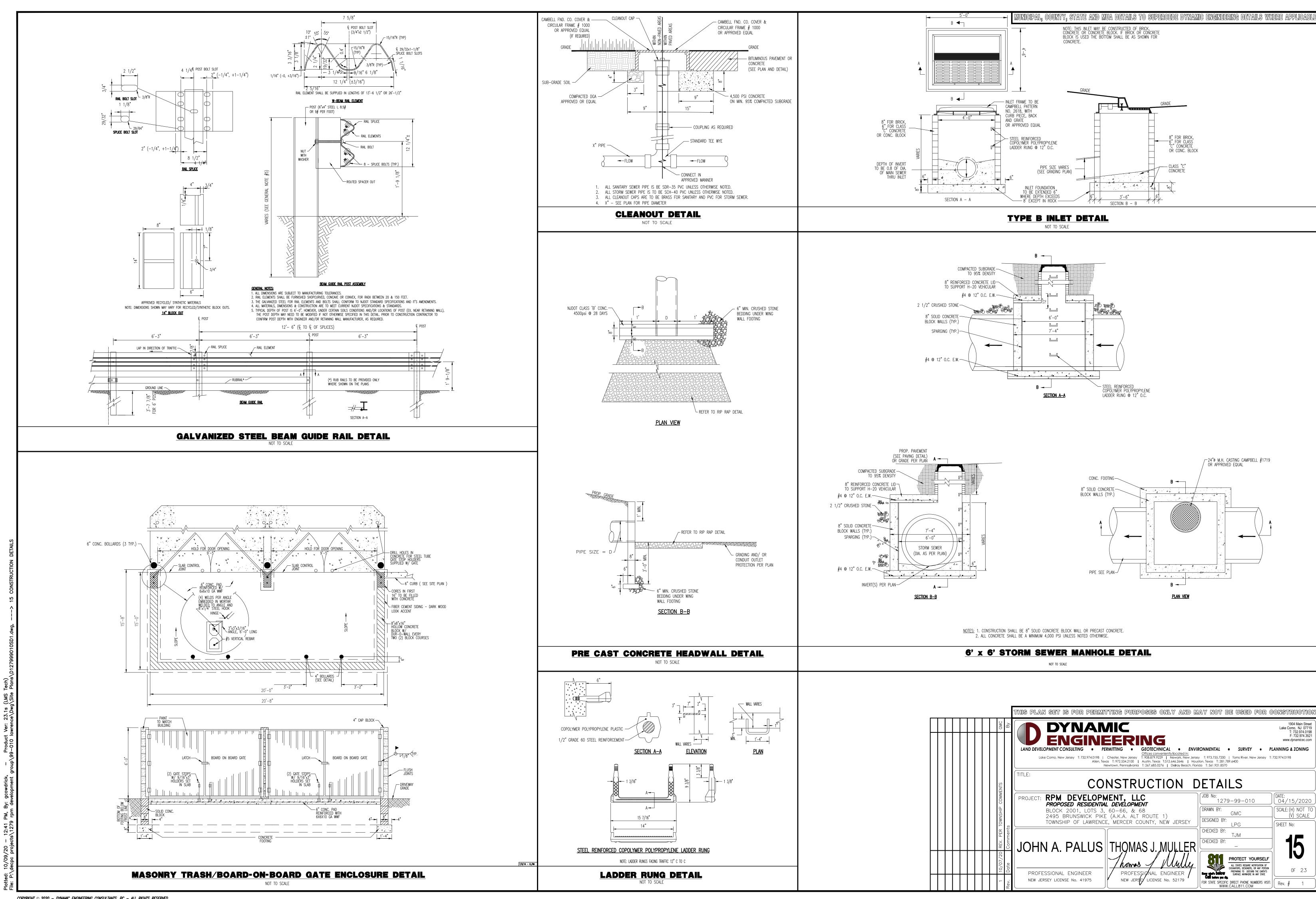
1 INCH = 30 FT.

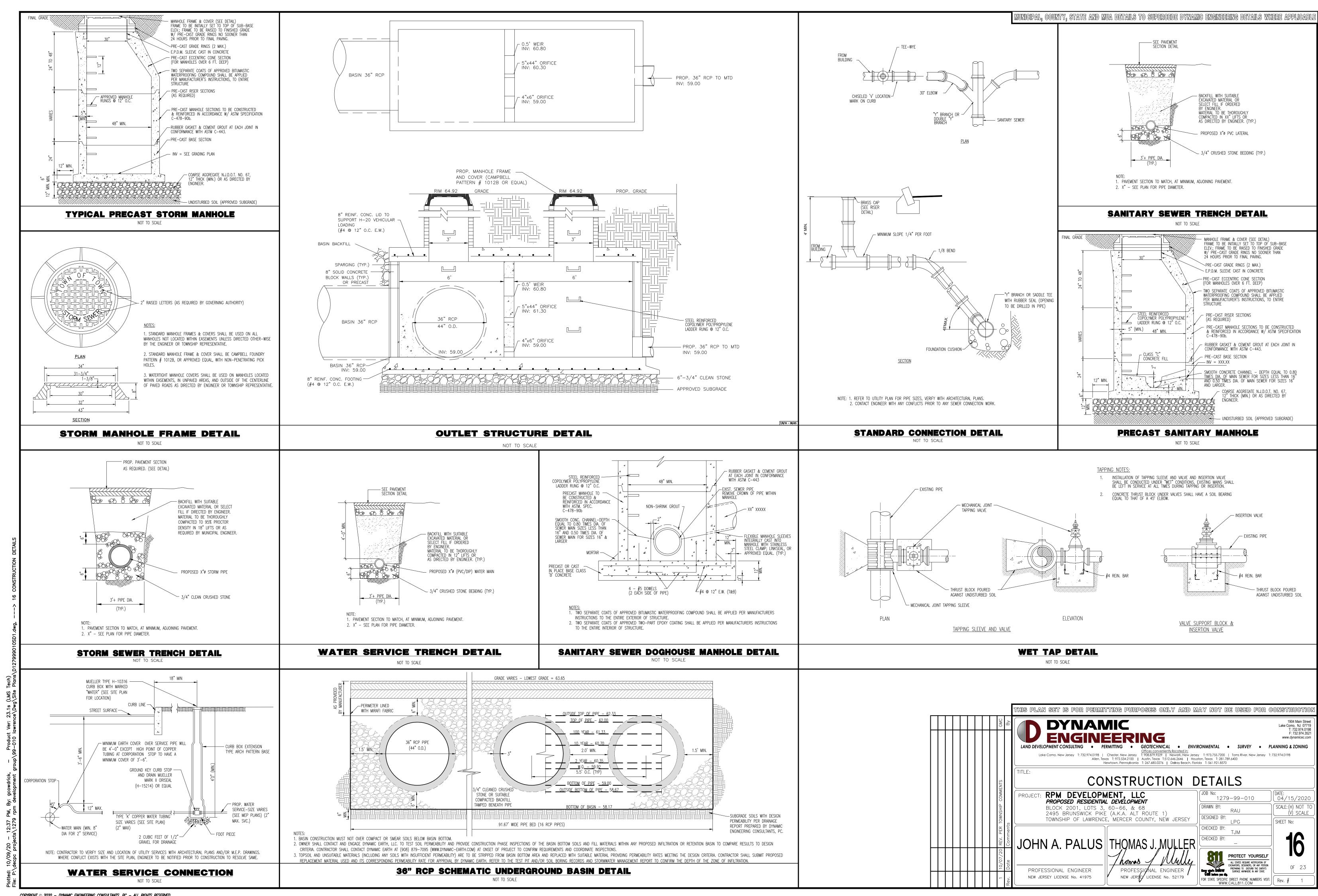
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C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

2. SEEDBED PREPARATION

A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL - CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING

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

SEEDING A. TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTHS

- COOL SEASON GRASSES: (1) PERENNIAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 0.5 INCHES.

2) SPRING OATS - 86 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES. 3) WINTER BARLEY - 96 LBS / ACRE; PLANT BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.

(4) ANNUAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND JUNE 15 BETWEEN AUGUST 1 AND SEPTEMBER 15; AT A DEPTH OF 0.5 INCHES. (5) WINTER CEREAL RYE - 112 LBS / ACRE; PLANT BETWEEN AUGUST 1 AND NOVEMBER 15; AT A DEPTH OF 1.0 INCHES.

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

(2) MILLET (GERMAN OR HUNGARIAN) - 30 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES. B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING, DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS,

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

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TÜRF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST. 1. PEG AND TWINE

2. MULCH NETTINGS 3. CRIMPER MULCH ANCHORING COULTER TOOL 4. LIQUID MULCH-BINDERS

B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DÙRING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE

APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO

STANDARD FOR PERMANENT VEGETATIVE **COVER FOR SOIL STABILIZATION**

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

A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/).
- FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID—PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

(5)KY. BLUEGRASS -

A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES (1)HARD FESCUE -175 LBS/ACRE 4 LBS/1000 SQ.FT. 175 LBS/ACRE 4 LBS/1000 SQ.FT. (3)STRONG CREEPING RED FESCUE - 175 LBS/ACRE 4 LBS/1000 SQ.FT. (4)PERENNIAL RYEGRASS -45 LBS/ACRE 1 LBS/1000 SQ.FT

45 LBS/ACRE

1 LBS/1000 SQ.FT.

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE—TEXTURED SOIL. C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

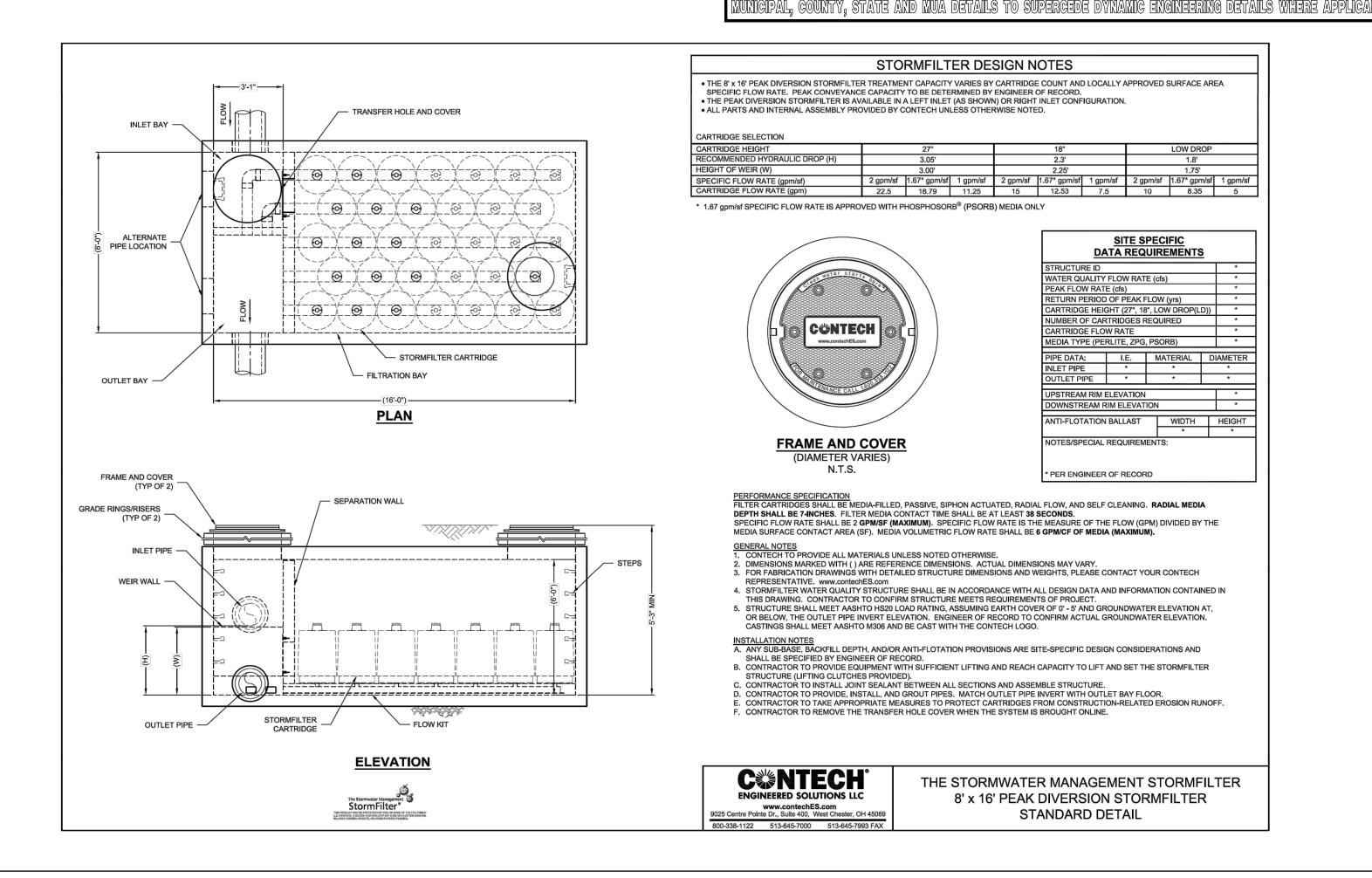
ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST PEG AND TWINE

2. MULCH NETTINGS 3. CRIMPER MULCH ANCHORING COULTER TOOL

4. LIQUID MULCH-BINDERS

B. WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING

C. PELLETIZED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.





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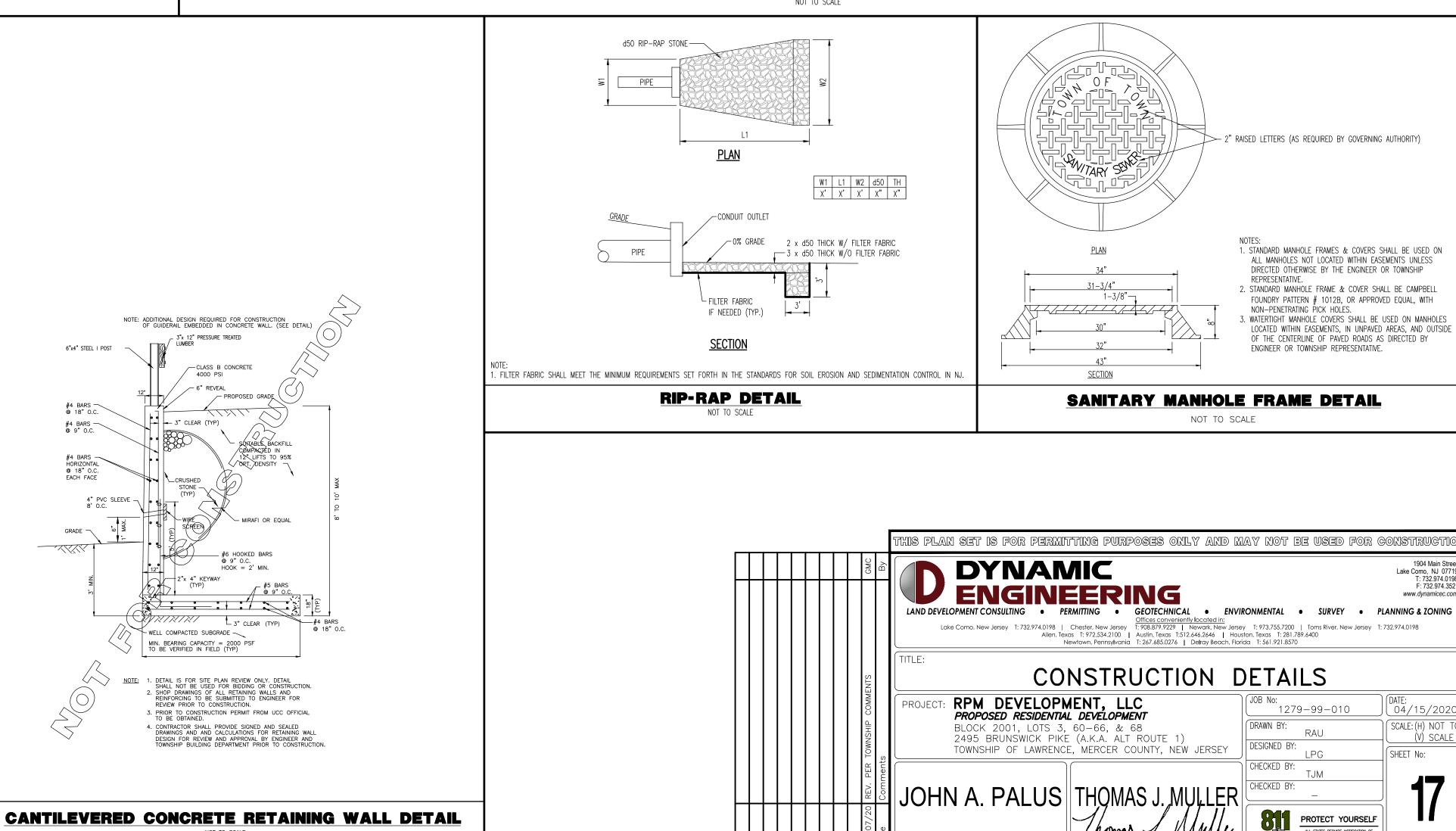
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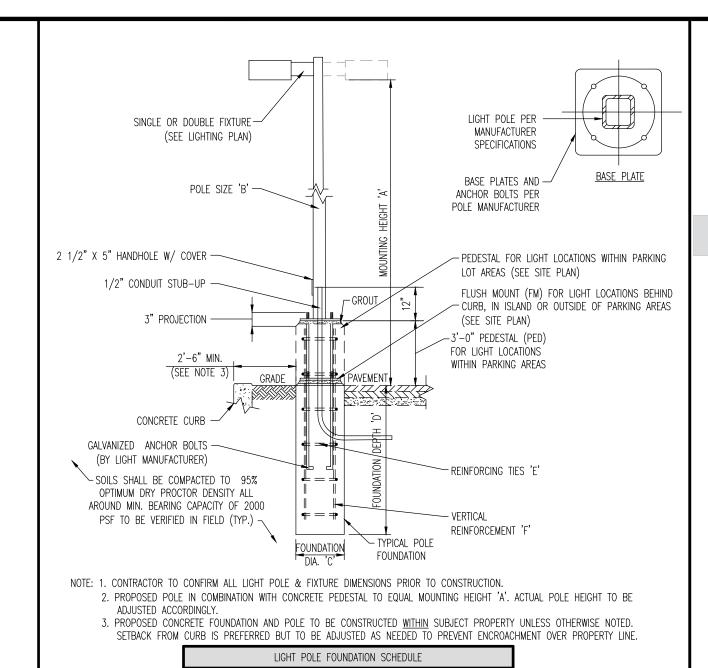
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MOUNTING HEIGHT ABOVE GRADE 'A' 18'-20' 6" SQUARE (OR PER POLE DIA. 'B' MANUFACTURER) # OF FIXTURES SINGLE OR DOUBLE FOUNDATION DIAMETER 'C' 18" DIA. ROUND FOUNDATION DEPTH 'D' #4 @ 12" O.C. REINFORCING TIES 'E' (6) #6 BARS EQUALLY SPACED VERTICAL REINFORCEMENT 'F'

SOIL NOTES

- 1. FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 SF PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST. 2. SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.
- CONCRETE NOTES 1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
- 2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".

WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260. 4. REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE

AREA LIGHT DETAIL

PROGRESS | COMMERCIAL

PCOWC SERIES LED Wall Packs

Photometric Data:

- Drive Current: 700 mA System Watts: 18 Watts (7 LEDs), 29 Watts (12 LEDs) or 45 Watts (18 LEDs)
- Number of LEDs: 7, 12 or 18 Number of Drivers: 1 4000K, 70 CRI (7 LEDs) 4200K, 70 CRI (12 & 18 LEDs)

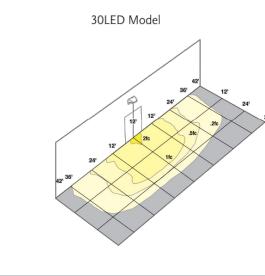
	(VOILS)	(watts)	
20150	120	16.6	0.14
20 LED	277	16.6	0.09
30.1.50	120	28.9	0.24
30 LED	277	27.7	0.10
4E LED	120	41.0	0.35
45 LED	277	41.5	0.15

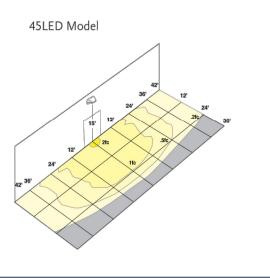
Input Voltage System Power Current (A)

		Lumen N	1ultiplier
Ambient ⁻	Temperature	7 LED's	12 & 18 LED's
0°C	32°F	1.02	1.02
10°C	50°F	1.01	1.01
20°C	68°F	1.00	1.00
25°C	77°F	1.00	1.00
30°C	86°F	1.00	1.00
40°C	104°F	0.99	1.00
50°C	122°F	0.98	0.99

Model	Distribution Type	Lumens	LPW
20 LED	3	1421	82
30 LED	3	2246	79
45 LED	3	3069	69
			I

			Operating Hou	rs (All Models)		
Ambient Temperature	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (Hours)
25°C/77°F	1.00	0.98	0.97	0.96	0.95	>791,000
40°C/104°F	0.99	0.98	0.96	0.96	094	>635,000





For more information visit our website: www.progresscommercial.com

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PROGRESS | COMMERCIAL

Fixture Type:

PCOWC	SERIES

LED Wall Packs

WALL MOONIES LIGHT SETAIL NOT TO SCALE

PROGRESS Product #: RSA-B-S: Round Straight Aluminum Poles Specifications: Description: **APPLICATIONS** Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location CONSTRUCTION SHAFT: One piece straight aluminum with fluted cross section; Extruded shafts of 6001-TG aluminum in 3/16" or 1/4" thickness: Base plate of 356 cast aluminum. BOLT COVERS: Four (4) individual bolt covers provided, painted to match pole and base finish. POLE CAP OR FINALS: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires. HAND HOLE: Aluminum hand hole frame; Mounting provisions for grounding lug located behind cover ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling Height 8' - 24' Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness Powder paint finish coat available in twelve standard colors; Custom colors available; RAL number preferable. TENONS & POLE CAPS RSA-B-S = 16 = 40 = A/B/C = CAP = 2L = B3 = DBT 2 Two fixtures at 180° B1 Cruzer BL Black Textured 2L Two fixtures at 90° B3 VP-L WH White Textured EHH¹ Extra Handhole B4 VP-S Platinum Silver 3T Three fixtures CO51 .5" Coupling GYS Light Gray Smooth C07' 75" Coupling 3Y Three at 120° BZT Bronze Textured C201 2" Coupling 4 Four fixtures at 90° BBT Basic Black Textured VM2 2nd mode MOUNTING ORIENTATION OT² Open top (in-cludes pole cap) CC Custom Color TN3² Tenon 3 x 3 LAB Less Anchor TN4° Tenon 3 x 4 TN52 Tenon 4 x 5 TN8² Tenon 4 x 8 ARC² Acorn Finial BAL² Ball Finial ACCESSORIES - Order Separately CAP² Flat Cap Specify option location using logic found on page 2 (Option Orientation)

iunicipal, county, state and mua details to supercede dynamic engineering details where applicat PROGRESS COMMERCIAL Location: PCAD SERIES LED Area Designer Lighting **Specifications**: Construction: The decorative pendant mount luminaire is pendant mounted in place with stainless steel bolts. The driver is located in the cast aluminum top housing and is accessible without tools by hinging the lower shade assembly. The lower shade assembly is a one-piece aluminum spinning. One piece optical system with internal brass standoffs soldered to the board which can be field replaced. Two-piece die cut silicone and polycarbonate foam gasket ensures weather-proof seal around each individual LED and allows luminaire to be rated for high-pressure hose down applications. The optical cartridge is secured to the aluminum heat sink with fasteners to ensure thermal conductivity. Optics held into place without use of adhesives and complete assembly is gasketed for high pressure hose down cleaning. Electrical: **Dimensions & Mounting** Luminaire equipped with LED driver that operates with 120-277V universal voltage, 50/60Hz *Cast Rings Optional and includes 0-10V dimming capability. Power factor is 0.92 at full load. All electrical components rated at 50,000 hours at full load and 40°C ambient conditions. Thermal feedback between PCB and driver to protect luminaire from excessive temperature by reducing drive current as necessary. Surge protection standard with device providing surge current rating of 20KA using 8/20 pSec wave, LSP clamping voltage of 825V and surge rating of 540J. PCADS: EPA 1.04 ft² PCADL: EPA 1.39 ft² Polyester powder paint finish that is corrosion resistant and resists surface impacts up to 160

Listing/Certification:

Warranty:

The luminaire bears a CSA label and is marked suitable for wet locations.

5 year limited warranty covering LED array and LED driver(s).

For more information visit our website: www.progresslighting.com

(varies by LPW (milliamps 3600-3900 131-139 350 mA 24 6100-6450 107-113 700 mA 36 9100-9700 108-114 700 mA 110 48 12400-1800 110-116 700 mA 60 15200-16200 111-117 700 mA

Catalog number: Engine/Wattage Color Temp BL - Black PC120 - 120V Photocell 55LED - 24LEDS @ 55W **4** - Type 4 85LED - 36LEDS @ 85W 4W - Type 4 Wide 110LED - 48LEDS @ 110W** 5R - Type 5 Rectangle 136LED - 60LEDS @ 136W**

5W - Type 5 Round Progress Lighting • 701 Millennium Boulevard • Greenville, SC 29607

Options

PC277 - 277V Photocell

CR - Cast Rings

BC - Backlight Control

LIGHT POLE DETAIL

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AREA LIGHT DETAIL

Features:	Images:
 Die-cast aluminum housing and door Rugged design protects internal components and provides sufficient thermal management for long life 60,000 hours minimum LED life at L96 rating Powder paint finish provides lasting appearance in outdoor environments Quick mount adapter provides quick installation, designed for recessed box 4" square junction box 120 – 277V universal voltage 50/60Hz with a 0-10V dimming driver 4000K nominal, 70 CRI 20 LED: 1421 Lumens 30 LED: 2246 Lumens 45 LED: 3096 Lumens Application: The compact PCOWC Series is intended for perimeter illumination for safety, security and identity. The fixture has full cutoff distribution and is neighbor friendly with typical mounting	20LED Model 30LED Model 45LED Model
heights up to 12 ft (20LED model) or up to 15 ft (30LED & 45LED models). Units have a protective polyester finish for long lasting appearance.	
Compliances:	Warranty:
UL 1598 listed for use in wet locations, 40°C ambient environments	5 year warranty (Terms and Conditions Apply)
20 LED Model A: 4.81" (122 mm) B: 1.55" (39 mm) C: 8.22" (209 mm) D: 5.25" (133 mm)	30& 45 LED Model A: 6.25" (158.7 mm) B: 1.6" (40.2 mm) C:10.25" (260.4 mm) D: 5.6" (142.2 mm)
Catalog number: Base Lamp Finish PCOWC 20 LED - LED, 20 Watts 20 - Bronze 30 LED - LED, 30 Watts 28 - White 45 LED - LED, 45 Watts 82 - Metallic Gray	
TO LED - LLD, TO WALLS	

