FOR HSC BERLIN, LLC PROPOSED TRACTOR SUPPLY COMPANY 901 NJSH ROUTE 73 SOUTH, **TOWNSHIP OF BERLIN** CAMDEN COUNTY, NEW JERSEY

PRELIMINARY AND FINAL SITE PLAN BLOCK 1604, LOTS 1, 2, 3, 4, & 5; TAX MAP SHEET #16 - LATEST REV. DATED 08-11-05

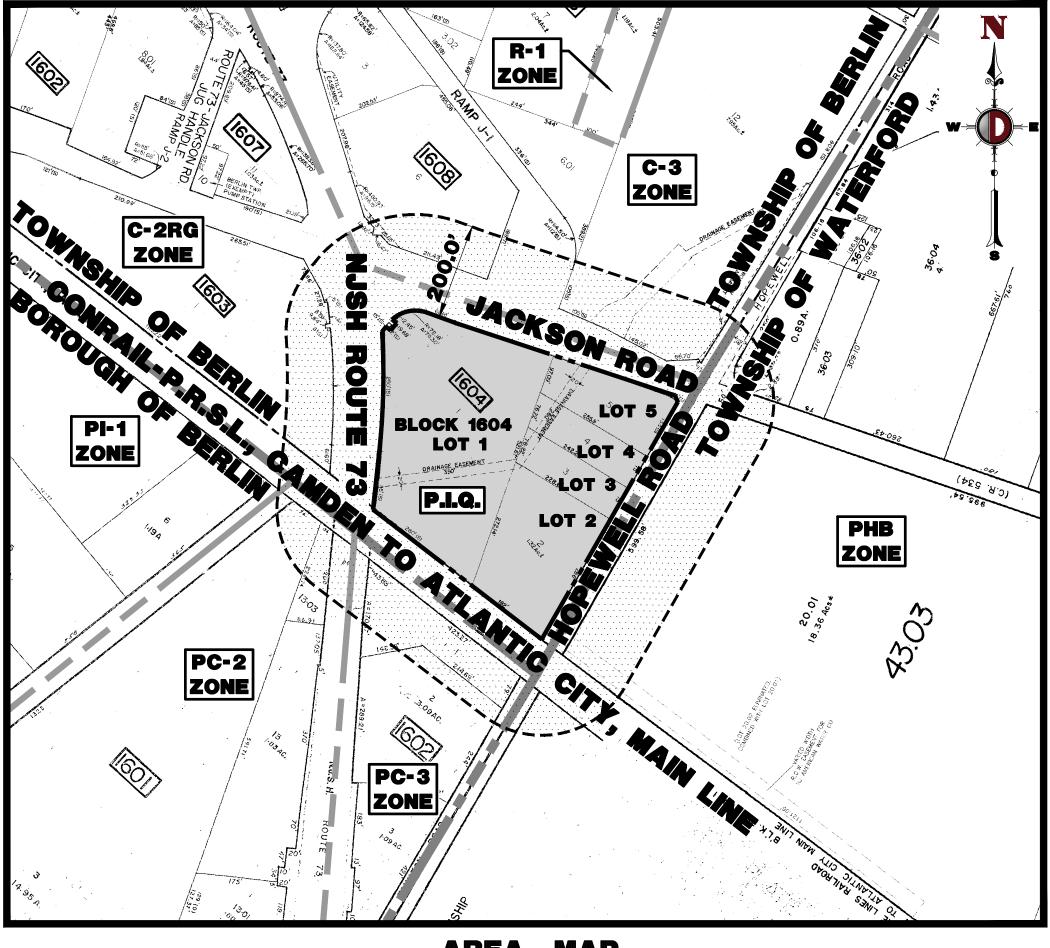
200' PROPERTY OWNERS LIST

TOWNSHIP OF BERLIN			BOROUGH OF BERLIN		
<u>PROPERTY OWNER</u> FIBBIANO ASSOCIATES, LLC	<u>BLOCK</u>	LOT	<u>PROPERTY_OWNER</u> NJ_DEPT_TRANSPORTATION	BLOCK	LOT
1300 ROUTE 38 CHERRY HILL, NJ 08002	1603	1	1035 PARKWAY AVENUE BOX 616 TRENTON, NJ 08625	99 1602	6 1, 2
JACKSON POINTE, LLC C/O PAGLIUSO			SINELNIK, GREGORY (EST) C/C		Ι, Ζ
334 STOKES ROAD SUITE – 2B MEDFORD, NJ 08055	1604	1	70 GARDENS AVENUE BERLIN, NJ 08009	1601	3, 1303
JACKSON POINT, LLC 334 STOKES ROAD			<u>ALSO TO BE NOTIFIED:</u> ATLANTIC CITY ELECTRIC		
SUITE – 2B MEDFORD, NJ 08055	1604	2, 3, 4, 5	R/E & R/W 5100 HARDING HIGHWAY SUITE 399		
JACKSON-TAUNTON-COLLINS L 1280 W NEWPORT CENTER DRI DEERFIELD BEACH, FL 33442		12	MAYS LÄNDING, NJ 08330 PINELANDS COMMISSION		
WEST BERLIN ROUTE 73 LLC 1401 BROAD STREET	1000		PO BOX 359 15 SPRINGFIELD ROAD NEW LISBON, NJ 08064		
CLIFTON, NJ 07013	1608 DUELDS	6	SOUTH JERSEY GAS COMPANY 1 SOUTH JERSEY PLAZA		
VERIZON- NJ - C/O DUFF & PO BOX 2749 ADDISON, TX 75001	5000	1	FOLSOM, NJ 08037		
ALSO TO BE NOTIFIED:			COMMISSIONER OF TRANSPORT STATE OF NEW JERSEY 1035 PARKWAY AVENUE	ATION	
ATLANTIC CITY ELECTRIC 5100 HARDING HIGHWAY MAYS LANDING, NJ 08330			PO BOX 101 TRENTON, NJ 08625		
ATTN: JOSEPH RIDING PUBLIC SERVICE ELECTRIC & C 80 PARK PLAZA – T6B	AS		CAMDEN COUNTY PLANNING BC CAMDEN COUNTY COMPLEX 2311 EGG HARBOR ROAD LINDENWOLD, NJ 08021	DARD	
NEWARK, NJ 07102 COMCAST CABLE 1250 HADDONFIELD-BERLIN RC CHERRY HILL, NJ	AD		BOROUGH OF BERLIN 50 SOUTH WHITE HORSE PIKE BERLIN, NJ 08009		
SOUTH JERSEY GAS ONE SOUTH JERSEY PLAZA, RC FOLSOM, NJ 08037	UTE 54		CONSOLIDATED RAIL CORP REAL ESTATE DEPARTMENT 1000 HOWARD BOULEVARD 4 TH FLOOR		
NEW JERSEY AMERICAN WATER 100 LINCOLN DRIVE VOORHEES, NJ 08043			MOUNT LAUREL, NJ 08054		
BERLIN BOROUGH WATER DEPA 59 SOUTH WHITE HORSE PIKE	RTMENT		TOWNSHIP OF WATERFORD		
BERLIN, NJ 08009 CAMDEN COUNTY PLANNING BC	ARD		<u>property owner</u> prokapus John & Karen	BLOCK	LOT
2311 EGG HARBOR ROAD LINDENWOLD, NJ 08021		.,	32 HIGH POINT DRIVE MEDFORD, NJ 08055	101	1
CAMDEN COUNTY MUNICIPAL U 1645 FERRY AVENUE CAMDEN, NJ 08104	ILITIES AUTHORIT	Ŷ	UFP EASTERN DIVISION INV 2801 E BELTLINE AVENUE NE GRAND RAPIDS, MI 49525	201	1
STATE OF NEW JERSEY DEPART 1035 PARKWAY AVENUE BOX 101	MENT OF TRANS	PORTATION	NJ DEPT TRANSPORTATION 1035 PARKWAY AVENUE, CN 60		
TRENTON, NJ 08625			TRENTON, NJ 08625	209	1
BERLIN TOWNSHIP CLERK'S OFI 135 ROUTE 73 SOUTH WEST BERLIN, NJ 08091	IUE		CONSOLIDATED RAIL CORP 1000 HOWARD BOULEVARD, 4TH MOUNT LAUREL, NJ 08054	H FLOOR 210	1
BERLIN TOWNSHIP CHIEF OF PO	DLICE		ALSO TO BE NOTIFIED:		
WEST BERLIN, NJ 08091 NJ DOT			ATLANTIC CITY ELECTRIC R/E & R/W 5100 HARDING HIGHWAY, SUITE	STATE	ISSIONER OF TRANSPOR OF NEW JERSEY PARKWAY AVENUE
REGION SOUTH PERMIT OFFICE ONE EXECUTIVE CAMPUS ROUTE 70 WEST			MAYS LANDING, NJ 08330	PO BO	DX 101 ON, NJ 08625
CHERRY HILL, NJ 08002 NJDOT			SOUTH JERSEY GAS COMPANY 1 SOUTH JERSEY PLAZA FOLSOM, NJ 08037	2131	RFORD TOWNSHIP AUBURN AVENUE
BUREAU OF MAJOR ACCESS PE PO BOX 600 1035 PARKWAY AVENUE	RMITS		CAMDEN COUNTY PLANNING BO CAMDEN COUNTY COMPLEX	ARD	NJ 08004 DLIDATED RAIL CORP ESTATE DEPARTMENT
TRENTON, NJ 08625			2311 EGG HARBOR ROAD LINDENWOLD, NJ 08021	REAL 1000 MOUN	ESTATE DEPARTMENT HOWARD BOULEVARD, 4 T LAUREL, NJ 08054
			PINELANDS COMMISSION PO BOX 359 15 SPRINGFIELD ROAD		
			NEW LISBON, NJ 08064		
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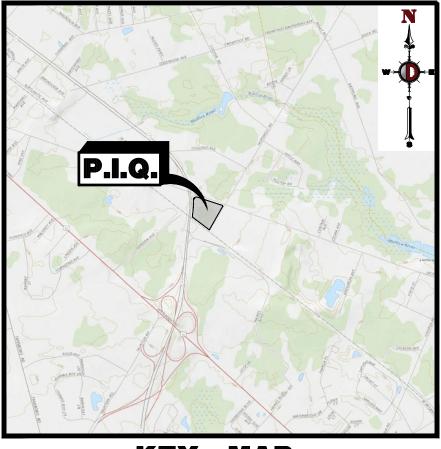
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APPROVED BY TH	e zoning	BOARD	OF '	THE	TOWNSHIP	OF	BERLIN,	CAMDEN	COUNTY,	NEW JERSEY	
CHAIRMAN										DATE	
SECRETARY										DATE	_
TOWNSHIP ENGINE	ER									DATE	

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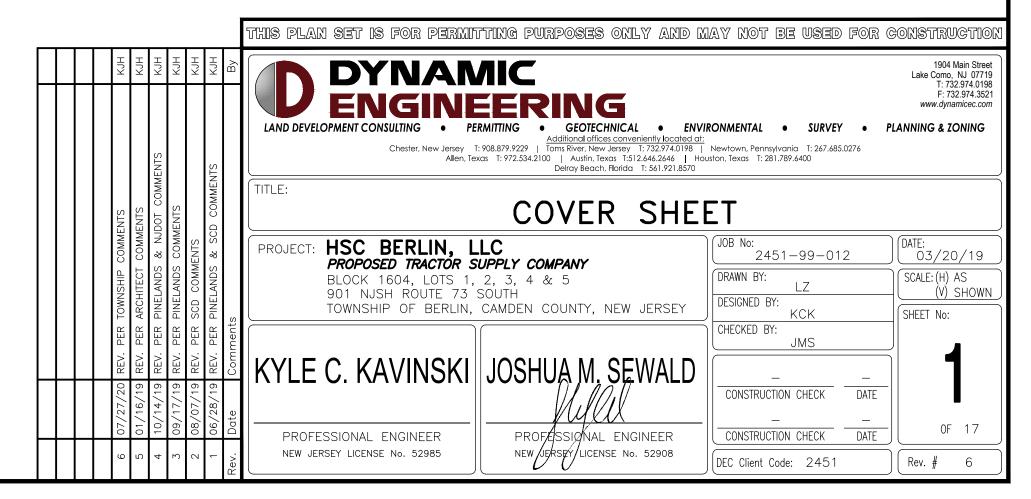
AREA MAP 1" = 200'

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

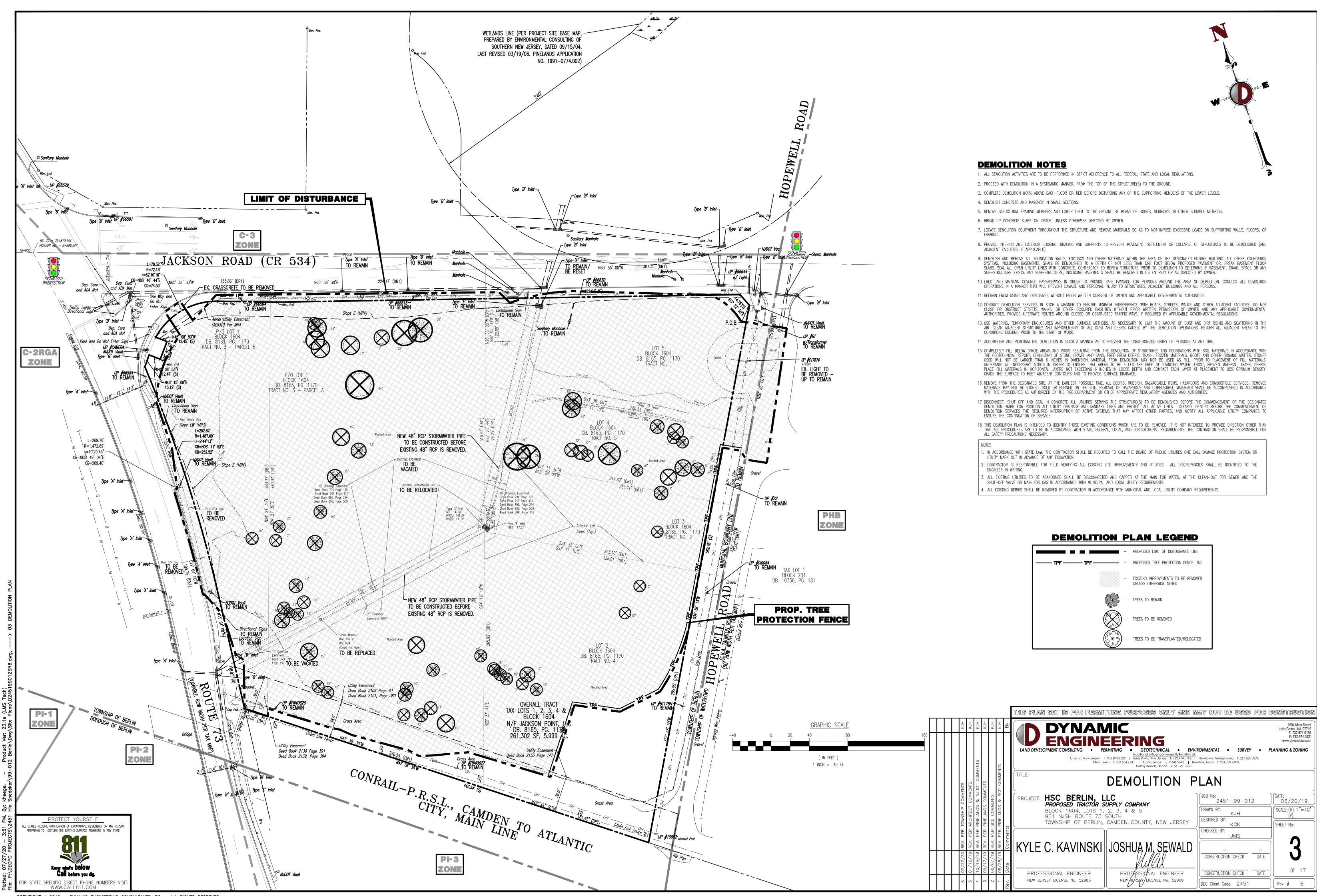


KEY MAP 1" = 2000'

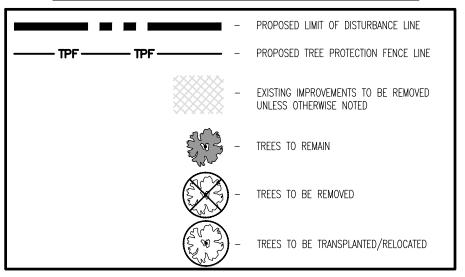
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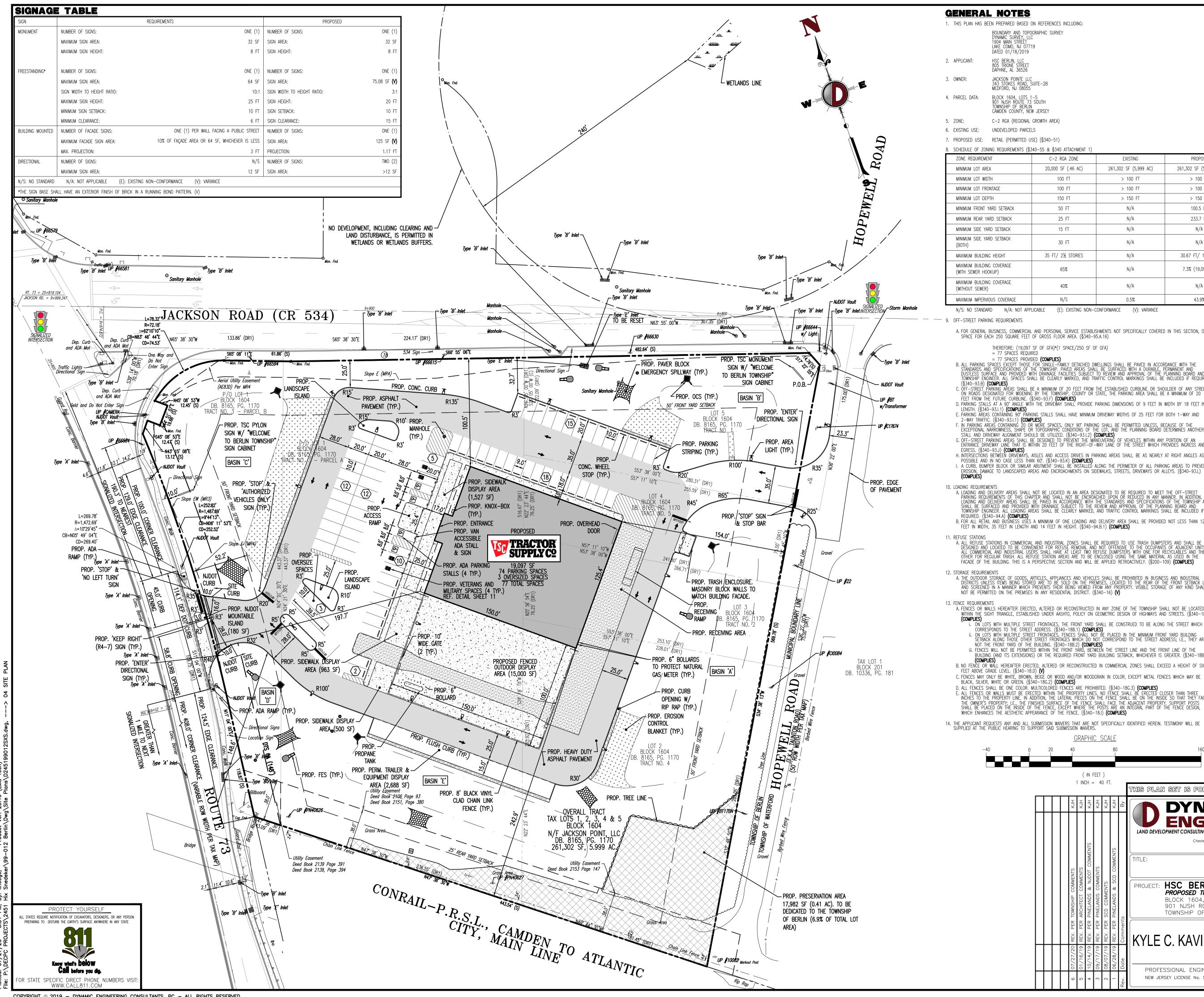












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BOUNDARY AND TOPOGRAPHIC SURVEY

TOWNSHIP OF BERLIN CAMDEN COUNTY, NEW JERSEY

C-2 RGA (REGIONAL GROWTH AREA)

C-2 RGA ZONE EXISTING PROPOSED 20,000 SF (.46 AC) 261,302 SF (5,999 AC) 261,302 SF (5.999 AC) 100 FT > 100 FT > 100 FT 100 FT > 100 FT > 100 FT 150 FT > 150 FT > 150 FT 50 FT 100.5 FT N/A 25 FT N/A 233.7 FT 15 FT N/A N/A 30 FT N/A N/A 35 FT/ 21/2 STORIES N/A 30.67 FT/ 1 STORY 7.3% (19,097 SF) N/A 65% 40% N/A N/A N/S 0.5% 43.9%

(E): EXISTING NON-CONFORMANCE (V): VARIANCE

A. FOR GENERAL BUSINESS, COMMERCIAL AND PERSONAL SERVICE ESTABLISHMENTS NOT SPECIFICALLY COVERED IN THIS SECTION, ONE SPACE FOR EACH 250 SQUARE FEET OF GROSS FLOOR AREA. (§340–95.A.16)

THEREFORE: (19,097 SF OF GFA)*(1 SPACE/250 SF OF GFA)

B. ALL PARKING SPACES EXCEPT THOSE FOR SINGLE-FAMILY DETACHED DWELLINGS SHALL BE PAVED IN ACCORDANCE WITH TH STANDARDS AND SPECIFICATIONS OF THE TOWNSHIP. PAVED AREAS SHALL BE SURFACED WITH A DURABLE, PERMANENT AND DUSTLESS SURFACE AND PROVIDED WITH DRAINAGE FACILITIES SUBJECT TO REVIEW AND APPROVAL OF THE PLANNING BOARD DUSTLESS SURFACE AND PROVIDED WITH DRAINAGE FACILITIES SUBJECT TO REVIEW AND APPROVAL OF THE PLANNING BOARD TOWNSHIP ENGINEER. ALL SPACES SHALL BE CLEARLY MARKED, AND TRAFFIC CONTROL MARKINGS SHALL BE INCLUDED IF REQUIRED OFF-STREET PARKING AREAS SHALL BE A MINIMUM OF 20 FEET FROM THE ESTABLISHED CURBLINE OR SHOULDER OF ANY STREET. ON ROADS DESIGNATED FOR WIDENING BY THE TOWNSHIP, COUNTY OR STATE, THE PARKING AREA SHALL BE A MINIMUM OF 20 FEET FROM THE FUTURE CURBLINE. (§340-93.F) (COMPLIES) D. PARKING STALLS AT A 90° ANGLE WITH THE DRIVEWAY SHALL PROVIDE PARKING DIMENSIONS OF 9 FEET IN WIDTH BY 18 FEET IN E. PARKING AREAS CONTAINING 90' PARKING STALLS SHALL HAVE MINIMUM DRIVEWAY WIDTHS OF 25 FEET FOR BOTH 1-WAY AND F. IN PARKING AREAS CONTAINING 20 OR MORE SPACES, ONLY 90 PARKING SHALL BE PERMITTED UNLESS, BECAUSE OF THE EXCEPTIONAL NARROWNESS, SHAPE OR TOPOGRAPHIC CONDITIONS OF THE LOT, AND THE PLANNING BOARD DETERMINES ANOTHER STALL AND DRIVEWAY ALIGNMENT SHOULD BE UTILIZED. (§340-93.1.2) (COMPLIES) G. OFF-STREET PARKING AREAS SHALL BE DESIGNED TO PREVENT THE MANEUVERING OF VEHICLES WITHIN ANY PORTION OF AN ENTRANCE DRIVEWAY LANE THAT IS WITHIN 20 FEET OF THE RIGHT-OF-WAY LANE OF THE STREET WHICH PROVIDES INGRESS AND H. INTERSECTIONS BETWEEN DRIVEWAYS, AISLES AND ACCESS DRIVES IN PARKING AREAS SHALL BE AS NEARLY AT RIGHT ANGLES AS IS POSSIBLE AND IN NO CASE LESS THAN 60. (\$340–93.K) (COMPLIES) I. A CURB, BUMPER BLOCK OR SIMILAR ABUTMENT SHALL BE INSTALLED ALONG THE PERIMETER OF ALL PARKING AREAS TO PREVENT

A. LOADING AND DELIVERY AREAS SHALL NOT BE LOCATED IN AN AREA DESIGNATED TO BE REQUIRED TO MEET THE OFF-STREET PARKING REQUIREMENTS OF THIS CHAPTER AND SHALL NOT BE ENCROACHED UPON OR REDUCED IN ANY MANNER. IN ADDITION, ALL LOADING AND DELIVERY AREAS SHALL BE PAVED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWNSHIP AND SHALL BE SURFACED AND PROVIDED WITH DRAINAGE SUBJECT TO THE REVIEW AND APPROVAL OF THE PLANNING BOARD AND TOWNSHIP ENGINEER. ALL LOADING AREAS SHALL BE CLEARLY MARKED, AND TRAFFIC CONTROL MARKINGS SHALL BE INCLUDED IF B. FOR ALL RETAIL AND BUSINESS USES A MINIMUM OF ONE LOADING AND DELIVERY AREA SHALL BE PROVIDED NOT LESS THAN 12 FEET IN WIDTH, 35 FEET IN LENGTH AND 14 FEET IN HEIGHT. (\$340-94.B.1) (COMPLIES)

A ALL REFUSE STATIONS IN COMMERCIAL AND INDUSTRIAL ZONES SHALL BE REQUIRED TO USE TRASH DUMPSTERS AND SHALL BE DESIGNED AND LOCATED TO BE CONVENIENT FOR REFUSE REMOVAL AND NOT OFFENSIVE TO THE OCCUPANTS OF ADJACENT UNITS ALL COMMERCIAL AND INDUSTRIAL USERS SHALL HAVE AT LEAST TWO REFUSE DUMPSTERS WITH ONE FOR RECYCLABLES AND THE OTHER FOR REGULAR TRASH, ALL REFUSE STATION AREAS ARE TO BE ENCLOSED USING THE SAME MATERIAL AS USED IN THE FACADE OF THE BUILDING. THIS IS A PERSPECTIVE SECTION AND WILL BE APPLIED RETROACTIVELY. (\$200-109) (COMPLIES)

A. THE OUTDOOR STORAGE OF GOODS, ARTICLES, APPLIANCES AND VEHICLES SHALL BE PROHIBITED IN BUSINESS AND INDUSTRIAL DISTRICTS UNLESS ITEMS BEING STORED ARE TO BE SOLD ON THE PREMISES, LOCATED TO THE REAR OF THE FRONT SETBACK LINE AND SCREENED IN A MANNER WHICH PREVENTS THEIR BEING VIEWED FROM ANY PROPERTY. VISIBLE STORAGE OF ANY KIND SHALL NOT BE PERMITTED ON THE PREMISES IN ANY RESIDENTIAL DISTRICT. (\$340-16) (V)

A. FENCES OR WALLS HEREAFTER ERECTED, ALTERED OR RECONSTRUCTED IN ANY ZONE OF THE TOWNSHIP SHALL NOT BE LOCATED WITHIN THE SIGHT TRIANGLE, ESTABLISHED UNDER AASHTO, POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS. (§340-18B) (COMPLIES)
 i. ON LOTS WITH MULTIPLE STREET FRONTAGES, THE FRONT YARD SHALL BE CONSTRUED TO BE ALONG THE STREET WHICH CORRESPONDS TO THE STREET ADDRESS. (§340–18B.1) (COMPLIES)
 ii. ON LOTS WITH MULTIPLE STREET FRONTAGES, FENCES SHALL NOT BE PLACED IN THE MINIMUM FRONT YARD BUILDING SETBACK ALONG THOSE OTHER STREET FRONTAGES WHICH DO NOT CORRESPOND TO THE STREET ADDRESS; I.E., THEY ARE NOT THE FRONT YARD OF THE BUILDING. (§340-18B.2) (COMPLIES) iii. FENCES WILL NOT BE PERMITTED WITHIN THE FRONT YARD, BETWEEN THE STREET LINE AND THE FRONT LINE OF THE BUILDING (AND ITS EXTENSIONS) OR THE REQUIRED FRONT YARD BUILDING SETBACK, WHICHEVER IS GREATER. (§340–18B.3)

B. NO FENCE OR WALL HEREAFTER ERECTED, ALTERED OR RECONSTRUCTED IN COMMERCIAL ZONES SHALL EXCEED A HEIGHT OF SIX C. FENCES MAY ONLY BE WHITE, BROWN, BEIGE OR WOOD AND/OR WOODGRAIN IN COLOR, EXCEPT METAL FENCES WHICH MAY BE D. ALL FENCES SHALL BE ONE COLOR. MULTICOLORED FENCES ARE PROHIBITED. (§340-18G.3) (COMPLIES

E. ALL FENCES OR WALLS MUST BE ERECTED WITHIN THE PROPERTY LINES. NO FENCE SHALL BE ERECTED CLOSER THAN THREE INCHES TO THE PROPERTY LINE. IN ADDITION, THE LATERAL PIECES ON THE FENCE SHALL BE ON THE INSIDE SO THAT THEY FACE THE OWNER'S PROPERTY, I.E., THE FINISHED SURFACE OF THE FENCE SHALL FACE THE ADJACENT PROPERTY. SUPPORT POSTS SHALL BE PLACED ON THE INSIDE OF THE FENCE, EXCEPT WHERE THE POSTS ARE AN INTEGRAL PART OF THE FENCE DESIGN, WHICH ENHANCES THE AESTHETIC APPEARANCE OF THE FENCE. (§340-18.1) (COMPLIES)

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

> (IN FEET) 1 INCH = 40 FT.

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUC' 1904 Main Stree DYNAMIC Lake Como, NJ 07719 T: 732.974.0198 F: 732.974.3521 ENGINEERING www.dynamicec.co LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING

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 T: 561.921.8570

 SITE PLAN PROJECT: HSC BERLIN, LLC PROPOSED TRACTOR SUPPLY COMPANY 2451-99-012 03/20/19 SCALE: (H) 1"=40 DRAWN BY: BLOCK 1604, LOTS 1, 2, 3, 4 & 5 KJH 901 NJSH ROUTE 73 SOUTH DESIGNED BY: TOWNSHIP OF BERLIN, CAMDEN COUNTY, NEW JERSEY KCK SHEET No: CHECKED BY: JMS KYLE C. KAVINSKI JOSHUA M, SEWALD CONSTRUCTION CHECK DATE OF 17 CONSTRUCTION CHECK DATE PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER NEW JERSEY/LICENSE No. 52908 NEW JERSEY LICENSE No. 52985 Rev. # 6 EC Client Code: 2451

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

16. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. 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. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC. 19. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.

 THE FROFERT STALE BE CONSIDERED A PART OF THESE FORMS.
 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. 21. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

22. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. 23. 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.

24. ALL CONTRACTORS MUST CARRY STATUTORY WORKERS COMPENSATION, EMPLOYERS LIABILITY INSURANCE AND 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 ROM AND AGAINST 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 ONTRACTORS

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

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 MEIHODS, 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.

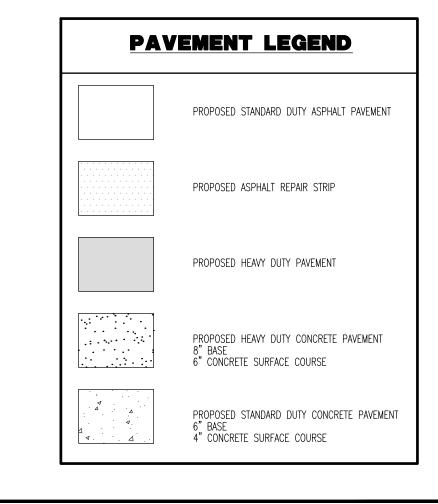
27. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, DYNAMIC ENGINEERING CONSULTANTS, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT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

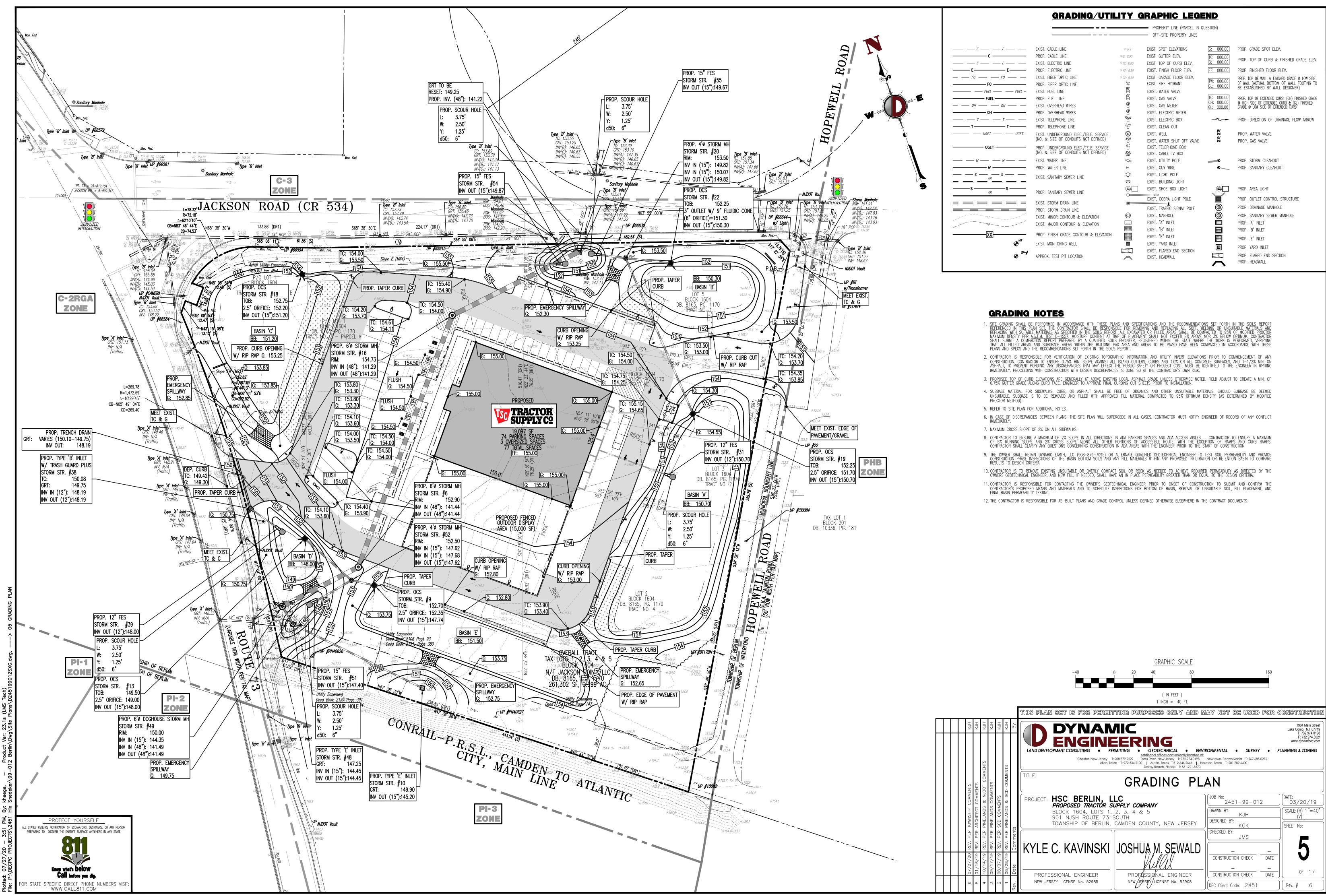
28. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS,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

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

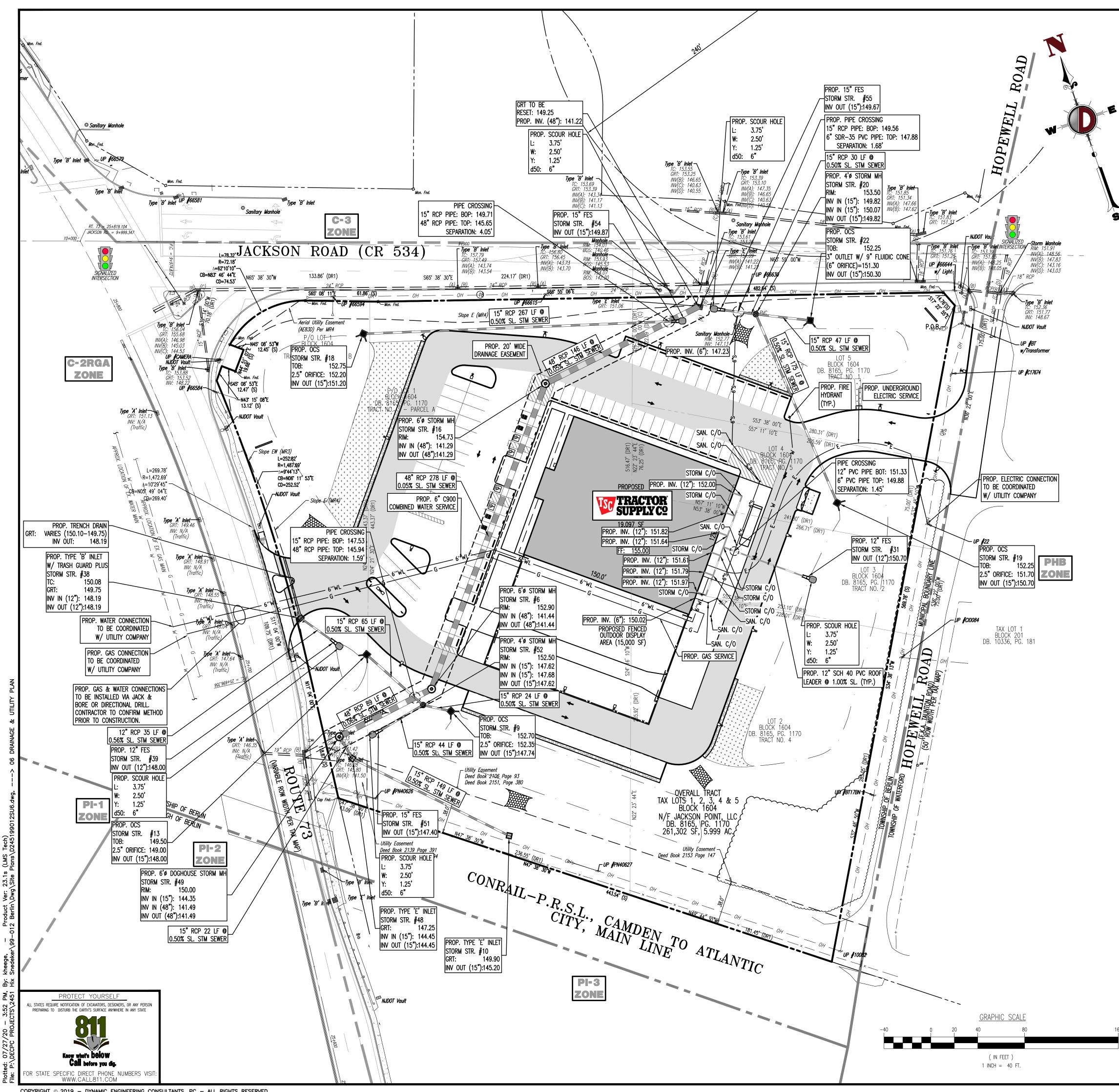
31. THE BUILDING SETBACK DIMENSIONS ILLUSTRATED AND LISTED ON THE SITE PLAN DRAWINGS ARE MEASURED FROM THE OUTSIDE SURFACE OF BUILDING WALLS. THESE SETBACK DIMENSIONS DO NOT ACCOUNT FOR ROOF OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED.

OVERHANGS, ORNAMENTAL ELEMENTS, SIGNAGE OR OTHER EXTERIOR EXTENSIONS UNLESS SPECIFICALLY NOTED.
32. 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.
33. 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 ASCHITECTURAL PLANS PRIOR TO CONSTRUCTION. THE HANDICAP ACCESSIBLE PARKING SPACES AND THE ASSOCIATED RAMPS AND ACCESSIBLE ROUTE MUST COMPLY WITH NUAC 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.





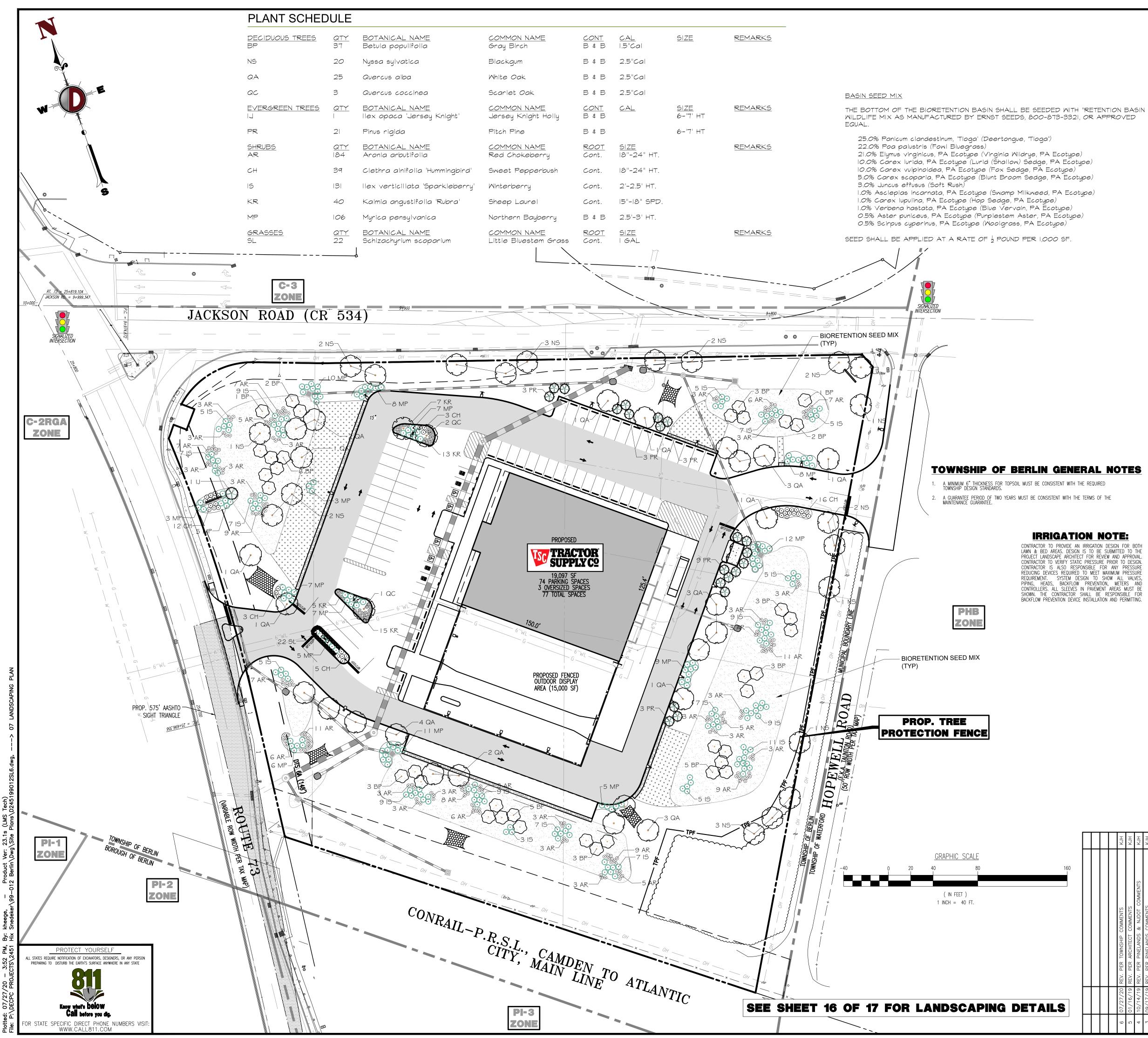
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11. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND	 SITE GRADING SHALL E REFERENCED IN THIS F REPLACING WITH SUITAB MAXIMUM DENSITY PER SHALL SUBMIT A COMP THAT ALL FILLED AREA: PLANS AND SPECS AND CONTRACTOR IS RESPC CONSTRUCTION. CONTRA ASPHALT, TO PREVENT IMMEDIATELY. PROCEEDIN PROPOSED TOP OF CUI 0.75% GUTTER GRADE A SUBBASE MATERIAL FO UNSUITABLE, SUBBASE PROCTOR METHOD). REFER TO SITE PLAN FO IN CASE OF DISCREPAN IMMEDIATELY. MAXIMUM CROSS SLOPE CONTRACTOR TO ENSUR OF 5% RUNNING SLOF CONTRACTOR SHALL CLA THE OWNER SHALL RE CONSTRUCTION PHASE 	PLAN SET. THE CONTRACTOR SHALL BE RESPONS SILE MATERIALS AS SPECIFIED IN THE SOILS REPOR A.S.T.M. TEST. D-1557. MOISTURE CONTENT AT TI PACTION REPORT PREPARED BY A QUALIFIED SOILS S AND SUBORADE AREAS WITHIN THE BUILDING P D THE RECOMMENDATIONS SET FORTH IN THE SOILS DNSIBLE FOR VERIFICATION OF EXISTING TOPOGR/ ACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL PONDING. ANY DISCREPANCIES THAT MAY EFFECT NG WITH CONSTRUCTION WITH DESIGN DISCREPANCI RB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTIN ALONG CURB FACE. ENGINEER TO APPROVE FINAL (DR SIDEWALKS, CURB, OR ASPHALT SHALL BE F IS TO BE REMOVED AND FILLED WITH APPROVE OR ADDITIONAL NOTES. NCIES BETWEEN PLANS, THE SITE PLAN WILL SUPE E OF 2% ON ALL SIDEWALKS. RE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS PE AND 2% CROSS SLOPE ALONG ALL OTHER ARIFY ANY QUESTIONS CONCERNING CONSTRUCTION TAIN DYNAMIC EARTH, LLC (908-879-7095) OR INSPECTIONS OF THE BASIN BOTTOM SOILS AND A	IBLE FOR REM IME OF PLACEM S ENGINEER, F AD AREA AND S REPORT. APHIC INFORMA ISLAND GUTTE THE PUBLIC SA ES IS DONE SC IG LOCAL ASPH CURBING CUT S FREE OF ORGA ED FILL MATER IN ADA PARKIN PORTIONS OF IN ADA AREAS ALTERNATE OU	OVING AND REPLACING ALL SOFT, Y TED OR FILLED AREAS SHALL BE COI VENT SHALL NOT EXCEED 2% ABOVE REGISTERED WITHIN THE STATE WHER AREAS TO BE PAVED HAVE BEEN (ATION AND UTILITY INVERT ELEVATIO TR, CURBS AND 1.0% ON ALL CON VETY OR PROJECT COST, MUST BE O AT THE CONTRACTOR'S OWN RISK. ALT GRADE UNLESS OTHERWISE NOTE HEETS PRIOR TO INSTALLATION. ANICS AND OTHER UNSUITABLE MAT IAL COMPACTED TO 95% OPTIMUM CASES. CONTRACTOR MUST NOTIFY I G SPACES AND ADA ACCESS AISLES. ACCESSIBLE ROUTE, WITH THE EXC WITH THE ENGINEER PRIOR TO THE ALTIED GEOTECHNICAL ENGINEER TO	IELDING OR UNSU MPACTED TO 95% NOR 3% BELOW IE THE WORK IS COMPACTED IN ACC NS PRIOR TO CO CRETE SURFACES, IDENTIFIED TO THE ED. FIELD ADJUST IERIALS. SHOULD DENSITY (AS DET ENGINEER OF REC CONTRACTOR T CEPTION OF RAME START OF CONSTR TEST SOIL PERM	ITABLE MATERIALS AND OF MODIFIED PROCTOR OPTIMUM. CONTRACTOR PERFORMED, VERIFYING CORDANCE WITH THESE OMMENCEMENT OF ANY AND 1–1/2% MIN. ON E ENGINEER IN WRITING TO CREATE A MIN. OF SUBBASE BE DEEMED TO CREATE A MIN. OF SUBBASE BE DEEMED TO CREATE A MODIFIED ORD OF ANY CONFLICT O ENSURE A MAXIMUM PS AND CURB RAMPS. FUCTION.
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12. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.	 SITE GRADING SHALL E REFERENCED IN THIS F REPLACING WITH SUITAB MAXIMUM DENSITY PER SHALL SUBMIT A COMP THAT ALL FILLED AREA: PLANS AND SPECS AND CONTRACTOR IS RESPC CONSTRUCTION. CONTRA ASPHALT, TO PREVENT IMMEDIATELY. PROCEEDIN PROPOSED TOP OF CUI 0.75% GUTTER GRADE A SUBBASE MATERIAL FO UNSUITABLE, SUBBASE PROCTOR METHOD). REFER TO SITE PLAN FO IN CASE OF DISCREPAN IMMEDIATELY. MAXIMUM CROSS SLOPE CONTRACTOR TO ENSUR OF 5% RUNNING SLOP CONTRACTOR TO ENSUR OF 5% RUNNING SLOP CONTRACTOR SHALL CLA THE OWNER SHALL RE CONSTRUCTION PHASE I RESULTS TO DESIGN CR CONTRACTOR IS TO RE OWNERS GEOTECHNICAL CONTRACTOR IS TO RE OWNERS GEOTECHNICAL CONTRACTOR IS RESPO CONTRACTOR IS RESPO 	PLAN SET. THE CONTRACTOR SHALL BE RESPONS BLE MATERIALS AS SPECIFIED IN THE SOILS REPOR A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TI PACTION REPORT PREPARED BY A QUALIFIED SOILS S AND SUBGRADE AREAS WITHIN THE BUILDING P D THE RECOMMENDATIONS SET FORTH IN THE SOILS DNSIBLE FOR VERIFICATION OF EXISTING TOPOGR/ ACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL PONDING. ANY DISCREPANCIES THAT MAY EFFECT NG WITH CONSTRUCTION WITH DESIGN DISCREPANCIE RB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTIN ALONG CURB FACE. ENGINEER TO APPROVE FINAL (D) OR SIDEWALKS, CURB, OR ASPHALT SHALL BE F IS TO BE REMOVED AND FILLED WITH APPROVE OR ADDITIONAL NOTES. NCIES BETWEEN PLANS, THE SITE PLAN WILL SUPE E OF 2% ON ALL SIDEWALKS. RE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS PE AND 2% CROSS SLOPE ALONG ALL OTHER ARIFY ANY QUESTIONS CONCERNING CONSTRUCTION TAIN DYNAMIC EARTH, LLC (908–879–7095) OR INSPECTIONS OF THE BASIN BOTTOM SOILS AND A RITERIA. EMOVE EXISTING UNSUITABLE OR OVERLY COMPAC' ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAV DNSIBLE FOR CONTACTING THE OWNER'S GEOTEC SED MEANS AND MATERIALS AND TO SCHEDULE IN	IBLE FOR REM IME OF PLACEM S ENGINEER, F AD AREA AND S REPORT. APHIC INFORMA ISLAND GUTTE THE PUBLIC SA ES IS DONE SC IG LOCAL ASPH CURBING CUT S FREE OF ORGA ED FILL MATER IN ADA PARKIN PORTIONS OF IN ADA AREAS ALTERNATE QU INY FILL MATER T SOIL OR RO E SOIL OR RO	OVING AND REPLACING ALL SOFT, Y TED OR FILLED AREAS SHALL BE COI VENT SHALL NOT EXCEED 2% ABOVE REGISTERED WITHIN THE STATE WHER AREAS TO BE PAVED HAVE BEEN (ATION AND UTILITY INVERT ELEVATIO TES, CURBS AND 1.0% ON ALL CON FETY OR PROJECT COST, MUST BE AT THE CONTRACTOR'S OWN RISK. ALT GRADE UNLESS OTHERWISE NOTE SHEETS PRIOR TO INSTALLATION. ANICS AND OTHER UNSUITABLE MAT IAL COMPACTED TO 95% OPTIMUM CASES. CONTRACTOR MUST NOTIFY I G SPACES AND ADA ACCESS AISLES. ACCESSIBLE ROUTE, WITH THE EXC WITH THE ENGINEER PRIOR TO THE ALIFIED GEOTECHNICAL ENGINEER TO IALS WITHIN ANY PROPOSED INFILTRA CK AS NEEDED TO ACHIEVE REQUIF CER PRIOR TO ONSET OF CONSTR	IELDING OR UNSU MPACTED TO 95% NOR 3% BELOW EE THE WORK IS COMPACTED IN ACI NS PRIOR TO CC CRETE SURFACES, IDENTIFIED TO THE ED. FIELD ADJUST IERIALS. SHOULD DENSITY (AS DET ENGINEER OF REC CONTRACTOR T CEPTION OF RAME START OF CONSTR TEST SOIL PERM ATION OR RETENTION RED PERMEABILITY QUAL TO THE DESI UCTION TO SUBM	ITABLE MATERIALS AND OF MODIFIED PROCTOR OPTIMUM. CONTRACTOR PERFORMED, VERIFYING CORDANCE WITH THESE DIMMENCEMENT OF ANY AND 1–1/2% MIN. ON E ENGINEER IN WRITING TO CREATE A MIN. OF SUBBASE BE DEEMED ERMINED BY MODIFIED ORD OF ANY CONFLICT ORD OF ANY CONFLICT TO ENSURE A MAXIMUM PS AND CURB RAMPS. UCTION. MEABILITY AND PROVIDE DN BASIN TO COMPARE AS DIRECTED BY THE GN CRITERIA. IT AND CONFIRM THE
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	<u>GRADING/UTIL</u>	ITY GRAP	HIC LEG	END		
			RTY LINE (PARCEL IN (TE PROPERTY LINES	QUESTION)		
((EXIST. CABLE LINE	× 8.9 EXIST. SPC)t elevations	G: 000.00	PROP. GRADE SPOT EL	EV.
<u> </u>	PROP. CABLE LINE EXIST. ELECTRIC LINE	× G: 8.90 EXIST. GUT		TC: 000.00 G: 000.00		& FINISHED GRADE ELEV.
E E	PROP. ELECTRIC LINE	× FF: 8.90 EXIST. FINI	ISH FLOOR ELEV.	FF: 000.00	PROP. FINISHED FLOOR	R ELEV.
— F0 — F0 — — F0 — — — — — — — — — — — —	EXIST. FIBER OPTIC LINE PROP. FIBER OPTIC LINE	🕱 🛛 EXIST. FIRE	AGE FLOOR ELEV. E HYDRANT	TW: 000.00 GL: 000.00	PROP. TOP OF WALL & FII OF WALL (ACTUAL BOTTO BE ESTABLISHED BY W	NISHED GRADE @ LOW SIDE DM OF WALL FOOTING TO ALL DESIGNER)
	EXIST. FUEL LINE PROP. FUEL LINE	₩V EXIST. WAT GV EXIST. GAS		TC: 000.00		
<i>ОН ОН</i>	EXIST. OVERHEAD WIRES PROP. OVERHEAD WIRES	ME EXIST. GAS	S METER CTRIC METER	GH: 000.00 GL: 000.00	© HIGH SIDE OF EXTENDE GRADE © LOW SIDE OF E>	CURB, (GH) FINISHED GRADE D CURB & (GL) FINISHED XTENDED CURB
T T T	EXIST. TELEPHONE LINE	Elbox EXIST. ELE	CTRIC BOX	-~-	PROP. DIRECTION OF E	DRAINAGE FLOW ARROW
T T U GET UGET	PROP. TELEPHONE LINE EXIST. UNDERGROUND ELEC./TELE. SERVICE	EXIST. CLEEXIST. WEL		N X X	PROP. WATER VALVE	
UGET	(NO. & SIZE OF CONDUITS NOT DEFINED) PROP. UNDERGROUND ELEC./TELE. SERVICE	TCI	ER SHUT OFF VALVE EPHONE BOX	82 2	PROP. GAS VALVE	
W W	(NO. & SIZE OF CONDUITS NOT DEFINED) EXIST. WATER LINE	exist. Cae ویک Exist. Util	BLE TV BOX LITY POLE	۲	PROP. STORM CLEANOL	JT
W ss	PROP. WATER LINE	► EXIST. GUY		©	PROP. SANITARY CLEAN	NOUT
	EXIST. SANITARY SEWER LINE	र्ष्ट्र EXIST. BUI	LDING LIGHT DE BOX LIGHT	₽ _	PROP. AREA LIGHT	
OR OR	PROP. SANITARY SEWER LINE	EXIST. COE	BRA LIGHT POLE		PROP. OUTLET CONTRC	DL STRUCTURE
	EXIST. STORM DRAIN LINE PROP. STORM DRAIN LINE	-	FFIC SIGNAL POLE		PROP. DRAINAGE MANH	
-17	EXIST. MINOR CONTOUR & ELEVATION EXIST. MAJOR CONTOUR & ELEVATION	© EXIST. MAN ≡== EXIST. "A"		0	PROP. SANITARY SEWEF PROP. 'A' INLET	r manhole
X	PROP. FINISH GRADE CONTOUR & ELEVATION	EXIST. "B" EXIST. "E"			PROP. 'B' INLET PROP. 'E' INLET	
• ^{mw}	EXIST. MONITORING WELL	EXIST. YAR	RD INLET RED END SECTION		PROP. L'INLLI PROP. YARD INLET	
P-4	APPROX. TEST PIT LOCATION	EXIST. HEA			PROP. FLARED END SE PROP. HEADWALL	ECTION
	LOCATE AND UTILIZE EXISTING WATER SERVICE ON NOT A LOCAL WATER COMPANY REQUIREM					
WATER COMPANY PRIOR TO COMPLETION. IF THE	EXISTING WATER SERVICE CAN NOT BE UTILIZED, T SHALL OBTAIN ALL REQUIRED STREET OPENING PE	THE NEW SERVICE IS TO BE	COORDINATED AND VE	RIFIED FOR LOCATI	ON	
EXISTING GAS SERVICE NOTE: CONTRACTOR TO LO	DCATE AND UTILIZE EXISTING GAS SERVICE CONNEC					
PRIOR TO COMPLETION. ANY NEW SERVICE IS T	HE LOCAL GAS COMPANY REQUIREMENTS. TERMIN/ O BE COORDINATED AND VERIFIED FOR LOCATION AL OF EXISTING SERVICE AND INSTALLATION OF NEW	WITH THE LOCAL GAS COMPA				
SANITARY SEWER SERVICE NOTE: CONTRACTOR TO) LOCATE AND UTILIZE EXISTING SEWER SERVICE C	CONNECTION IF OF ADEQUATE				
AUTHORITY REQUIREMENTS. TERMINATION AT THE	TOR TO REMOVE EXISTING SEWER SERVICE LINE A E MAIN MUST BE APPROVED BY THE LOCAL SEWEI O BE COORDINATED AND VERIFIED FOR LOCATION	R AUTHORITY PRIOR TO COM	PLETION. IF EXISTING	SEWER SERVICE C	AN	
	AL OF EXISTING SERVICE AND INSTALLATION OF NEW					
UTILITY NOTES						
COMMENCEMENT OF ANY CONSTRUCTION OR	SERVICES ARE APPROXIMATE AND MUST BE CONF EXCAVATION. SANITARY SEWER AND ALL OT D PRIOR TO THE COMMENCEMENT OF CONSTRUCTION	THER UTILITY SERVICE CONN	NECTION POINTS SHAL	L BE CONFIRMED)	
TO THE ENGINEER. CONSTRUCTION SHALL CO	IMMENCE BEGINNING AT THE LOWEST INVERT (POIN TILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIC	NT OF CONNECTION) AND PRO	OGRESS UP GRADIENT.			
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBIL ALSO NOTIFY LOCAL WATER & SEWER DEPARTI	ITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 H MENTS TO MARK OUT THEIR UTILITIES.	IOURS PRIOR TO ANY EXCAVA	ATION ON THIS SITE. (CONTRACTOR SHALL		
	ACT BUILDING UTILITY CONNECTION LOCATIONS. WHI /E SAME. SERVICE SIZES TO BE DETERMINED BY AR		THESE SITE PLANS, E	NGINEER IS TO BE		
	IFIED BY THE LOCAL UTILITY COMPANY. CONTRAC		ERVICE SHALL INCLUE	DE ALL FEES AND	I	
	LASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE D	DESIGNATED.				
6. THE MINIMUM DIAMETER FOR DOMESTIC WATER	SERVICES SHALL BE 1 INCH. ATER MAINS BY A DISTANCE OF AT LEAST 10 FEE		HIS IS NOT POSSIBLE			
BE IN SEPARATE TRENCHES WITH THE SEWE OTHERWISE DESIGNATED.	R MAIN AT LEAST 18 INCHES BELOW THE WATE	R MAIN. ALL SEWER MAINS	SHALL BE SDR-35	PVC PIPE UNLESS		
 ALL SEWER PIPE INSTALLED WITH LESS THA CONSTRUCTED OF DUCTILE IRON PIPE. ALL EQUAL. 	AN 3 FEET OF COVER, GREATER THAN 20 FEET DUCTILE IRON SEWER PIPE SHALL BE CEMENT—LII	OF COVER OR WITHIN 18 NED, CLASS 52 PIPE, FURNI	INCHES OF A WATEF SHED WITH SEWER CO	R MAIN SHALL BE DAT, OR APPROVED		
	ER THAN 10' DEEP AT CONNECTION TO THE SEWER	R MAIN, CONCRETE DEEP LATE	ERAL CONNECTIONS AF	RE TO BE UTILIZED.		
	LECOMMUNICATION UTILITY LINES AND SERVICES SHO RE TO BE PER THE APPROPRIATE UTILITY PROVIDER		SCHEMATIC IN NATURE.	. ACTUAL LOCATION	l	
11. ROOF LEADER COLLECTION PIPING ARE CON COORDINATED W/ ARCHITECTURAL PLANS FOR	ICEPTUAL IN NATURE AND ARE NOT FOR CONS EACH INDIVIDUAL BUILDING. ALL ROOF LEADER CO	TRUCTION. ACTUAL ROOF	LEADER COLLECTION SCHEDULE 40 PVC L	PIPING IS TO BE		
DESIGNATED.	CONSTRUCTED IN ACCORDANCE WITH THE REGULATO					
13. ALL PROPOSED UTILITIES TO BE INSTALLED UN		INT AUTHONITTS RULES AND	REGULATIONS.			
CONCRETE ELLIPTICAL STORM PIPE TO CONFO	RM PIPE TO CONFORM TO ASTM C-76, CLASS RM TO ASTM C-507, CLASS HE-III, UNLESS OTHER	RWISE DESIGNATED. REINFORC	ED CONCRETE STORM	WATER PIPE TO BE		
	CONCRETE PIPE ASSOCIATION INSTALLATION GUIDE IZED TO PROVIDE A SILT-TIGHT JOINT. WHERE S M C-443.					
15. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTI GASKFTED WATER-TIGHT JOINTS MEETING TH	H WALL INTERIOR WITH ANNULAR EXTERIOR CORRU E REQUIREMENTS OF ASTM F2306 AND ASTM D3	JGATIONS AND CONFORM TO 3212. PERFORATED PIPE SH/	ASTM F2306. SOLID ALL HAVE GASKETED	PIPE SHALL HAVE SILT-TIGHT JOINTS		
MEETING THE REQUIREMENTS OF ASTM F2306	6 AND ASTM F477. HDPE PIPE SHALL BE FROM INSTALLED IN ACCORDANCE WITH PIPE MANUFACTU	A MANUFACTURER WHO IS A				
	ALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIO ED WATER-TIGHT JOINTS MEETING THE REQUIREM					
PERFORMANCE VERIFICATION MAY BE ACCOMP	LISHED IN ACCORDANCE WITH ASTM F2487. HP PII OF HP STORM PIPE AND INSTALLED IN ACCORDANC	PE SHALL BE FROM A MANU	JFACTURER WHO IS AN	N EASTERN STATES		
	ASURED AS THE DISTANCE BETWEEN THE CENTER P E LESS AND SHOULD BE ACCOUNTED FOR BY THE		STRUCTURES. ACTUAL	PHYSICAL PIPE		
╷╷╷╷╷╷╞ ═	s plan set is for permit		ONLY AND I	may not	be used for	
By KuH KuH KuH KuH KuH	DYNAN					1904 Main Street Lake Como, NJ 07719 T: 732.974.0198
		ERINO			61161 /m1 /	F: 732.974.3521 www.dynamicec.com
	Chester, New Jersey T: 9	08.879.9229 Toms River, New	es conveniently located a	Newtown, Pennsy		PLANNING & ZONING
TIS COMMENTS	I F	Delray Beach,	, Florida T: 561.921.8570			
	DRAI	NAGE &	UTIL	ITY F	PLAN	
	ROJECT: HSC BERLIN, LL PROPOSED TRACTOR SU			JOB No: 245	51-99-012	DATE: 03/20/19
USHIP HITECT LANDS COMM LANDS LANDS	BLOCK 1604, LOTS 1, 1 901 NJSH ROUTE 73 S	2, 3, 4 & 5		DRAWN BY:	KJH	SCALE: (H) 1"=40'
	TOWNSHIP OF BERLIN, (NEW JERSEY	DESIGNED BY	KCK	SHEFT Not

			TOWNSHIP	ARCHITECT	PINELANDS	PINELANDS	SCD COMN	PINELANDS	S	BLOCK 1604, LOTS 1 901 NJSH ROUTE 73 TOWNSHIP OF BERLIN,	
			PER	PER	PER	PER	PER	PER	ment		
60			REV.	REV.	REV.	REV.	REV.	REV.	Com	KYLE C. KAVINSKI	JOSHUA M SEWAL
			/27/20	/16/19	/14/19	/17/19	/07/19	/28/19	ate		
			07	01	10	60	08	90	Ď	PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER
			9	5	4	3	2	-	kev.	NEW JERSEY LICENSE No. 52985	NEW JERSEY/LICENSE No. 52908

c UIILI	IY PLAN	
	JOB No: 2451-99-012	DATE: 03/20/19
	DRAWN BY: KJH	$\bigcirc \qquad \qquad$
NEW JERSEY	DESIGNED BY:	SHEET No:
	CHECKED BY: JMS	
SEWALD	CONSTRUCTION CHECK	6
L ENGINEER	CONSTRUCTION CHECK DAT	OF_17
NSE No. 52908	DEC Client Code: 2451	Rev. # 6



THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY **PLANTING NOTES** . PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LÁYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. 3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES. 4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. 5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE. 6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED. 7. OLIVITY AND SIZE OF PLANTS. SEPERAD OF POOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI 760.1 (REV. 2001) "AMERICAN STANDARD FOR

PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED.
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.
ALL PLANTS SHALL BE PLANTED IN AMENDED TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.
PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.
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 STAND. TSUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONS.
NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.
SET ALL PLANTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2° CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, HOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES (2° CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES. HAUGHLY OF PLANTE NO PREALEL, ETC. MAIN LEADER OF TREES (2° CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES. THATE WITH THE GROWTH OF LARGE TREES (2° CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES. THASE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED.<

- 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 OR SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:

<u>TYPE</u>	DATES	
PLANTS	3/15 TO 12/15	
LAWN	3/15 TO 6/15	
	9/15 TO 12/1	
FURTHERMORE, THE FOLLOWING TREES IN THIS SEASON.	TREE VARIETIES SHALL NOT BE PLANTED	D DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGING THESE
ACER RUBRUM	POPULUS VARIETIES	

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

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

 A. GENERAL ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.
 B. PLANTS ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
 C. 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.

 FERTILIZER AND SOLI CONDITIONER PLANTED AREAS

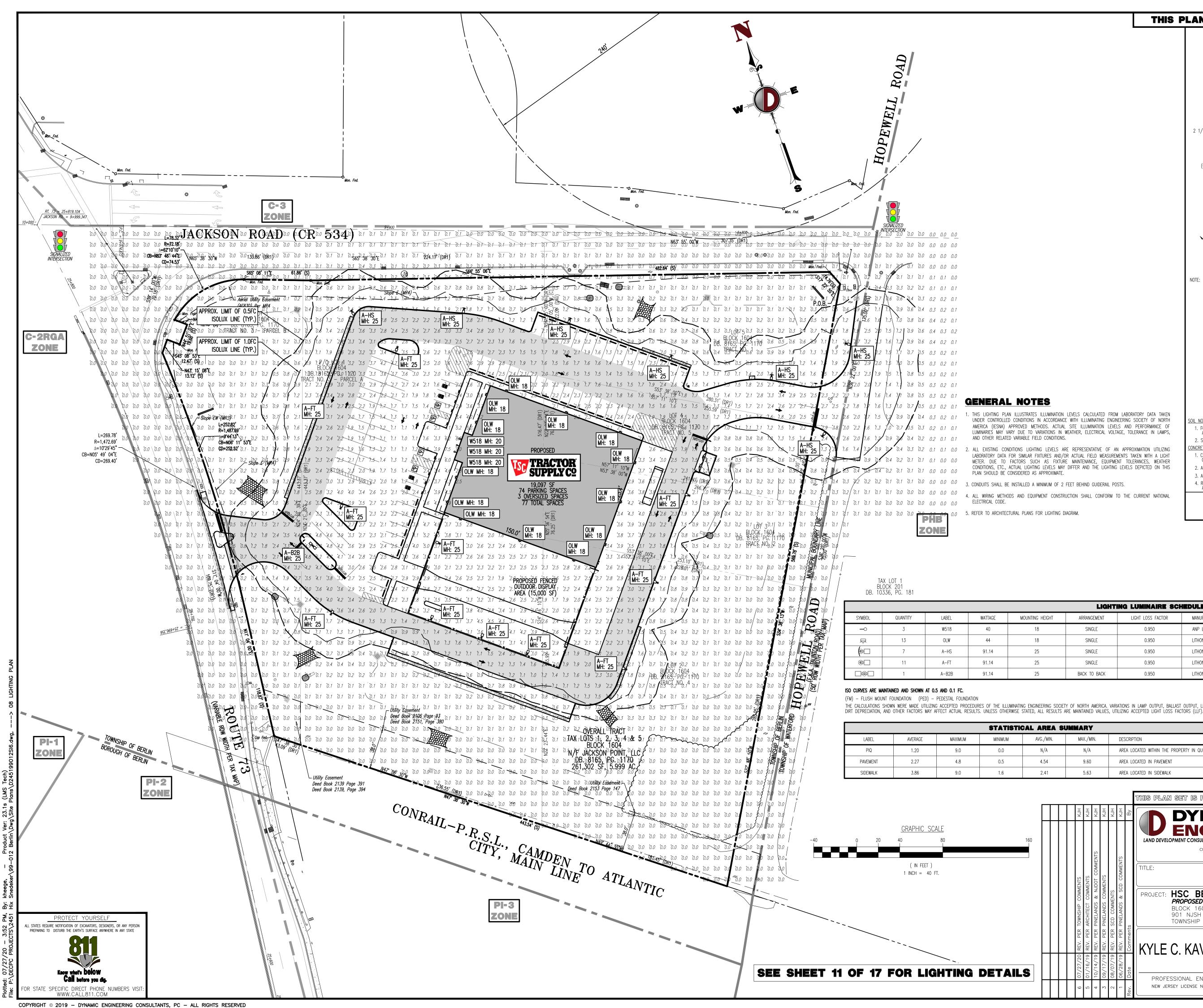
 A. OPCANIC FERTILIZER AND SOLI CONDITIONER SHULDE STUDGE WITH MINIMAL CONTENT OF 1% NITROCEN AND 2% PHOSPHOPIC ACID. FOUND TO 'NITROHUMIS'.
- FERTILIZER AND SOIL CONDITIONER PLANIED AREAS

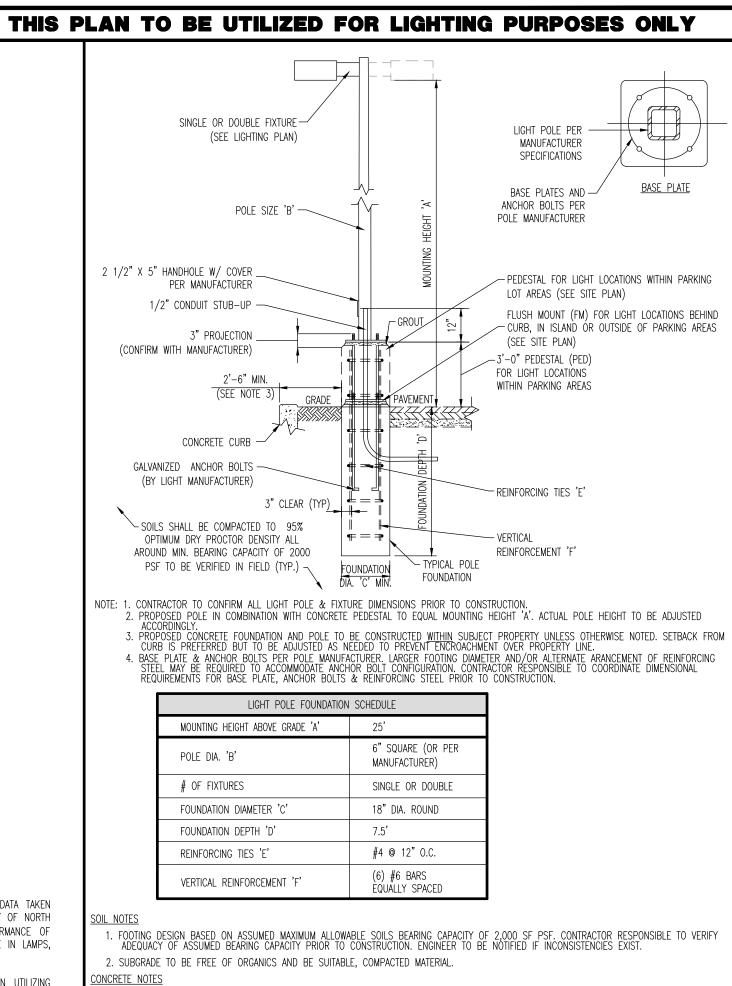
 ORGANIC FERTILIZER SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS'.
 ORGANIC FERTILIZER AND SOIL CONDITIONER SHALL BE 'GRO– POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5–3–1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS.

 GENERAL WORK PROCEDURES

 A CHENRAL WORK PROCEDURES
 A CHENRAL AND SOLE CONTRIDUCTION AND LESTENDE OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN DEPERFORMED, AND RESERVANCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN DEPERFORMED, AND AND SCHENRE AND PROCEDURES
 A CHENRAL AND SCHENRE AND SOLE AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN A CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND A CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND A CHEAN STATE AT THE END OF FACH DAY'S WORK AND REPRESENTED AND THE SITE AND A CHEAN STATE AT THE FACH DAY'S WORK AND REPRESENTED AND THE SITE AND A CHEAN STATE AT THE FACH DAY'S WORK AND REPRESENTED AND THE SITE AND A CHEAN STATE AT THE FACH DAY'S WORK AND REPRESENTED AND A CHEAN STATE AT THE FACH DAY'S WORK AND REPRESENTED AND THE SITE AND A CHEAN STATE AT THE FACH DAY'S WORK AND REPRESENTED AND A CHEAN STATE AT THE FACH DAY'S WORK AND REPRESI
- 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 CONTRACTOR'S EXPENSE.
- 6. TOPSOILING 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 TO FURNISH AN ANALYSIS OF ON-SITE TOPSOIL UTILIZED IN ALL PLANTING AREAS. ADJUST PH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. SOIL CONDITIONING:
- A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT 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
- OIL MODIFICATIONS: 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.
- C. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP T 8. PLANTING POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE ESSARY ADJUSTMENTS
- A. PLANTING PITS SHALL BE DUG WITH LEVEL BOTT GRADE. EACH PLANT PIT SHALL BE BACK FILLED V 1 PART PEAT MOSS BY VOLUME 1 PART COW MANURE BY VOLUME 3 PARTS TOPSOIL BY VOLUME BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT ED WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
 - 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. L PLANTS SHALL BE SET SO THAT, THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING
- F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT. 9. GROUND COVER
- A. ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.
 B. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
 C. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
 D. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.
 10. FINISH GRADING
- 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. C. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.
- A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF TWO (2) YEARS 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.
- 12. CLEANUP A. 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
- MERCENTRY STATES AND ACCEPTABLE LAWN, FREE OF ERDURG, MOWING, TRIMMING, AND OTHER OFFENDATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AND REPLACE DAMAGED WRAPPINGS. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
 MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO RESTARE AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
 MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO RESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
 MAINTAIN LAWNS BY DEED MONTH AFFER INTEN AND ADDED ON BARE AREAS. 13. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD.

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

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

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

NOTE: ALL SITE LIGHT POLES AND LIGHT FIXTURE HOUSINGS TO BE BLACK.

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS P CUBIC YARD FOR ALL FOOTINGS.

4. REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

AREA LIGHT DETAIL

NOT TO SCALE

1/6/17 – JGJ

2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".

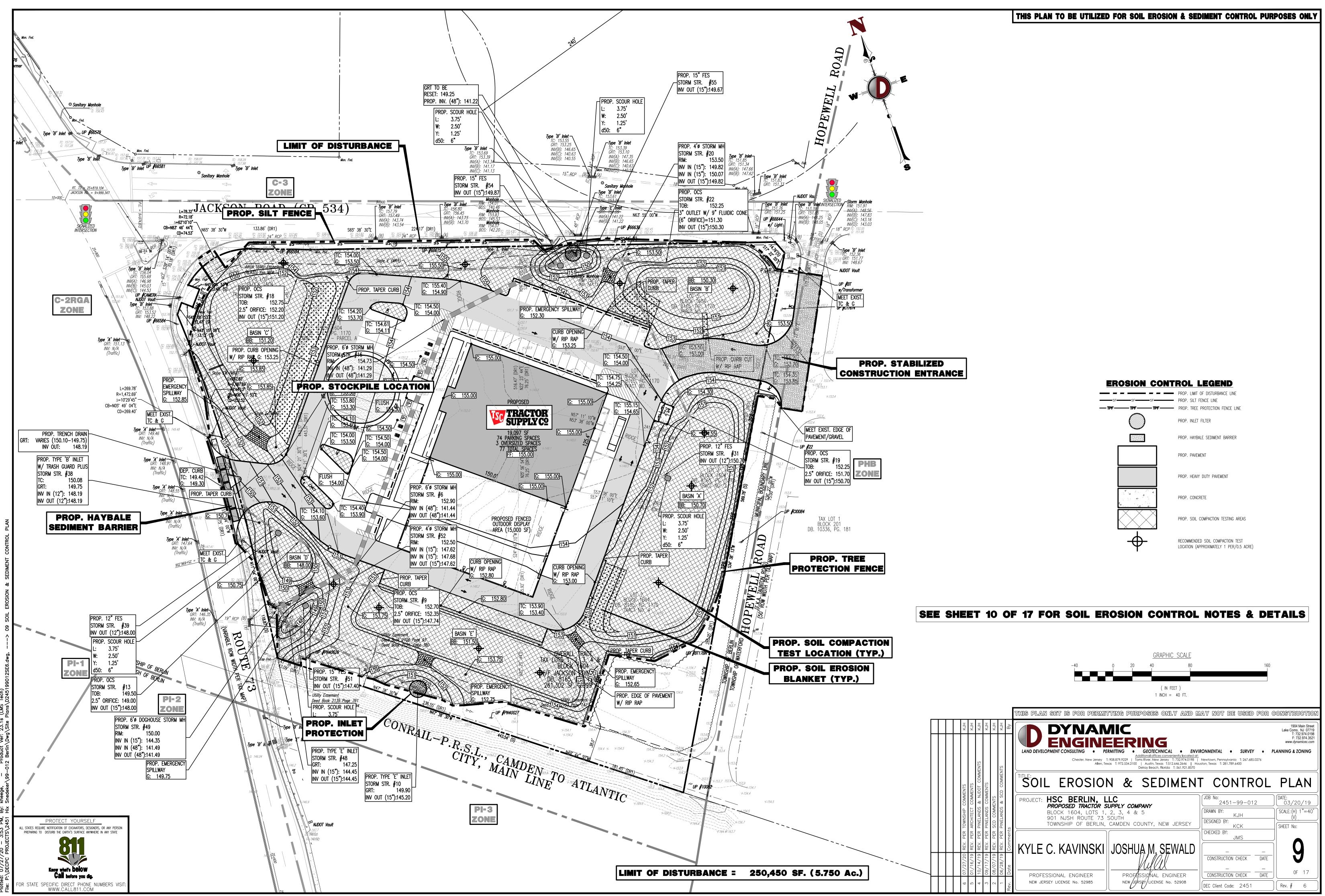
3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.

	LIGHT	ING LUMINAIRE SCI	HEDULE		
NOUNTING HEIGHT	ARRANGEMENT	LIGHT LOSS FACTOR	MANUFACTURER	DESCRIPTION	IES FILE
18	SINGLE	0.950	ANP LIGHTING	W520 M037 LD N_D W 30K	W520 M037 LD N_D W 30K(1).IES
18	SINGLE	0.950	LITHONIA LIGHTING	OLW-31-M2	OLW_31.IES
25	SINGLE	0.950	LITHONIA LIGHTING	DSX0 LED 40C 700 AMBPC TFTM MVOLT HS	DSX0 LED 40C 700 AMBPC TFTM MVOLT HS.IES
25	SINGLE	0.950	LITHONIA LIGHTING	DSX0 LED 40C 700 AMBPC TFTM MVOLT	DSX0 LED 40C 700 AMBPC TFTM MVOLT.IES
25	BACK TO BACK	0.950	LITHONIA LIGHTING	DSX0 LED 40C 700 AMBPC TFTM MVOLT	DSX0 LED 40C 700 AMBPC TFTM MVOLT.IES

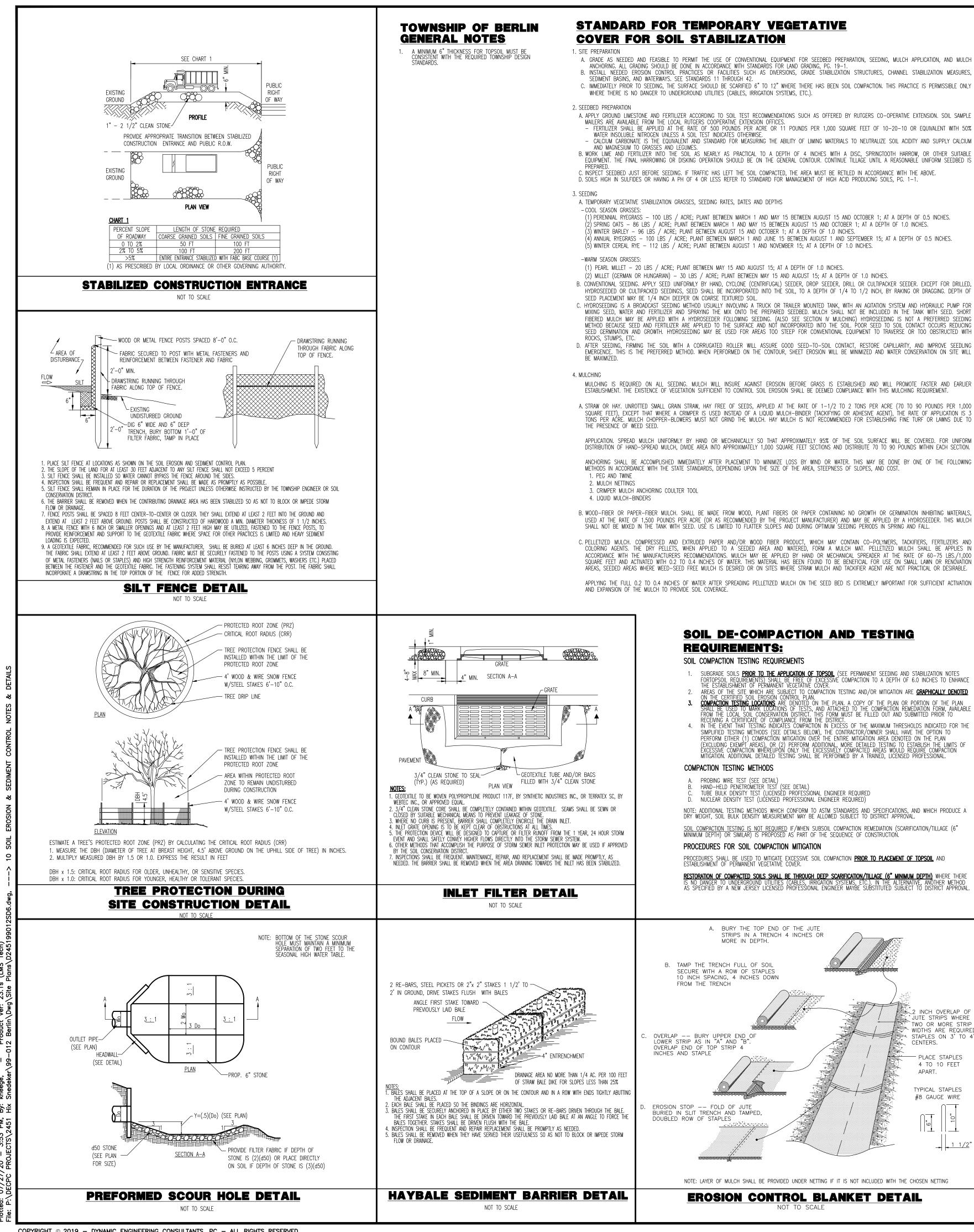
THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE,

AL AREA SU	JMMARY	
AVG./MIN.	MAX./MIN.	DESCRIPTION
N/A	N/A	AREA LOCATED WITHIN THE PROPERTY IN QUESTION
4.54	9.60	AREA LOCATED IN PAVEMENT
2.41	5.63	AREA LOCATED IN SIDEWALK

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160	КЛН	COMMENTS		HCX		_	ву	Additional offices conveniently located at: SURVEY Chester, New Jersey T: 908.879.9229 Toms River, New Jersey T: 732.974.0198 Newtown, Pennsylvania T: 267.685.0276 Allen, Texas T: 972.534.2100 I Austin, Texas T: 5112.646.22464 I Houston, Texas T: 281.789.6400			1904 Main Street Lake Como, NJ 07719 T: 732.974.0198 F: 732.974.3521 www.dynamicec.com
	SHIP COMMENTS		ANDS & NJDOT COMMENTS		MENTS	LANDS & SCD COMMENTS		PROJECT: HSC BERLIN, LLC PROPOSED TRACTOR SUPP BLOCK 1604, LOTS 1, 2,	2 LY COMPANY 3, 4 & 5	AN JOB No: 2451-99-012 DRAWN BY: KJH	DATE: 03/20/19 SCALE: (H) 1"=40'
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.S	/27/20	/16/19	/14/19	/17/19	7/19)6/28/19 REV.	Date Com	KYLE C. KAVINSKI	<u> </u>	CONSTRUCTION CHECK DATE	8 0F 17
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A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY

A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE 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% - CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM 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 C. 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.

(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.

B. CONVENTIONAL SEEDING, APPLY SEED UNFORMLY 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 C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR

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. FOOR 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 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

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.

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

DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST.

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 DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./ ET 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

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND 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 TOPSOIL INC D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES,

- SEDIMENT BASINS, AND WATERWAYS.
- 2. SEEDBED PREPARATION A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP-//NJAES RUTGERS EDU/COUNTY/) FFRTULIZER 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%
- APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZEF 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
- 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.
- 3. SEEDING A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES HARD FESCUE – 175 LBS/ACRE 4 LBS/1000 SQ.FT 175 LBS/ACRE 4 LBS/1000 SQ.F CHEWING FESCUE STRONG CREEPING RED FESCUE -175 LBS/ACRE 4 LBS/1000 SQ.FT PERENNIAL RYEGRASS 45 LBS/ACRE 1 LBS/1000 SQ.FT 5) KY. BLUEGRASS -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
- 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.
- 4. MULCHING MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE 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 ACRÉ. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

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

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST. 1. PEG AND TWINE 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 ÌS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEÉDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1.000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENÓVATION AREAS, SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE

STANDARD FOR STABILIZATION WITH MULCH ONLY

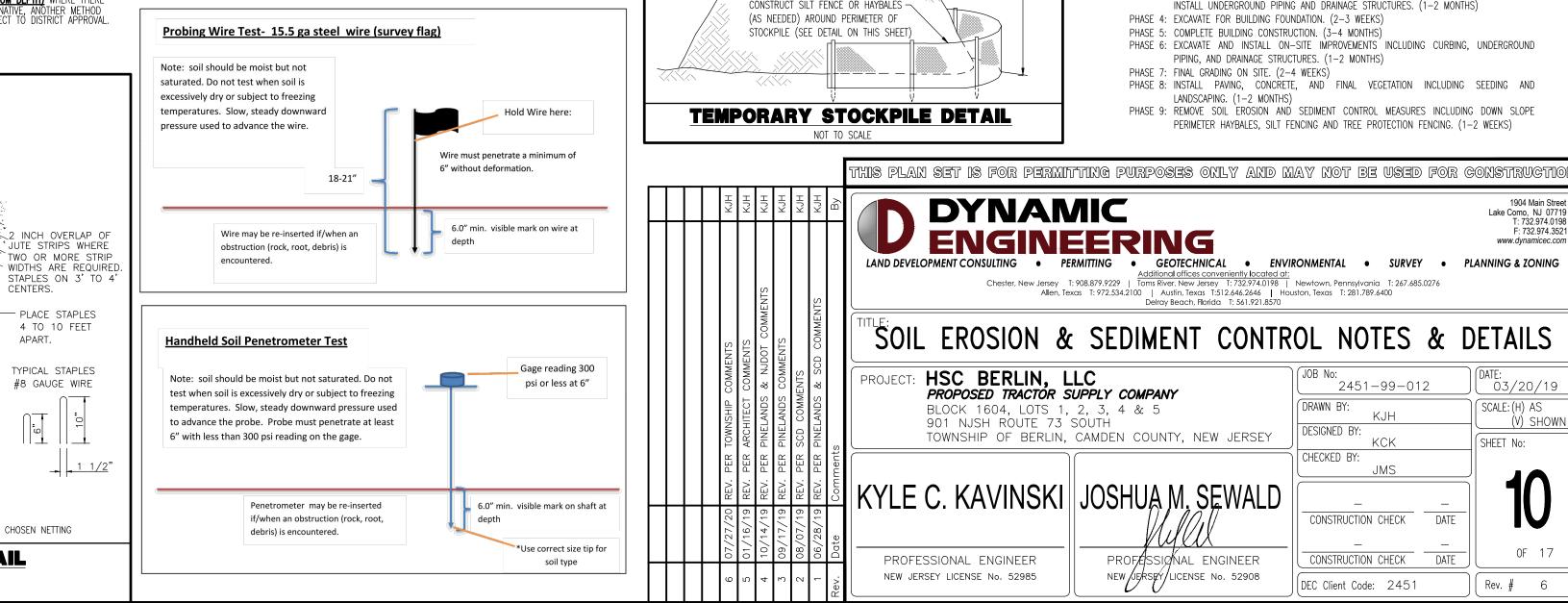
- 1. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING. B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS, SEE STANDARDS 11 THROUGH 42
- 2. PROTECTIVE MATERIALS A. UNROTTED SMALL-GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUAL INSPECTION, I.E. THE SOIL CANNOT BE SEEN BELOW THE MULCH
- B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER. C. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER
- D. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED. E. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH
- THEM INTO AN INLET AND PLUG I F. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.
- 3. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES. A. PEG AND TWINE B MULCH NETTINGS

C. CRIMPER MULCH ANCHORING COULTER TOOL D. LIQUID MULCH-BINDERS

Simplified Testing Methods

CENTERS.

APART.



WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS

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

(MAX SIDE

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MAINTAIN STOCK PILE

ACCORDANCE WITH

STABILIZATION NOTES

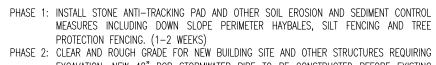
SURFACE IN

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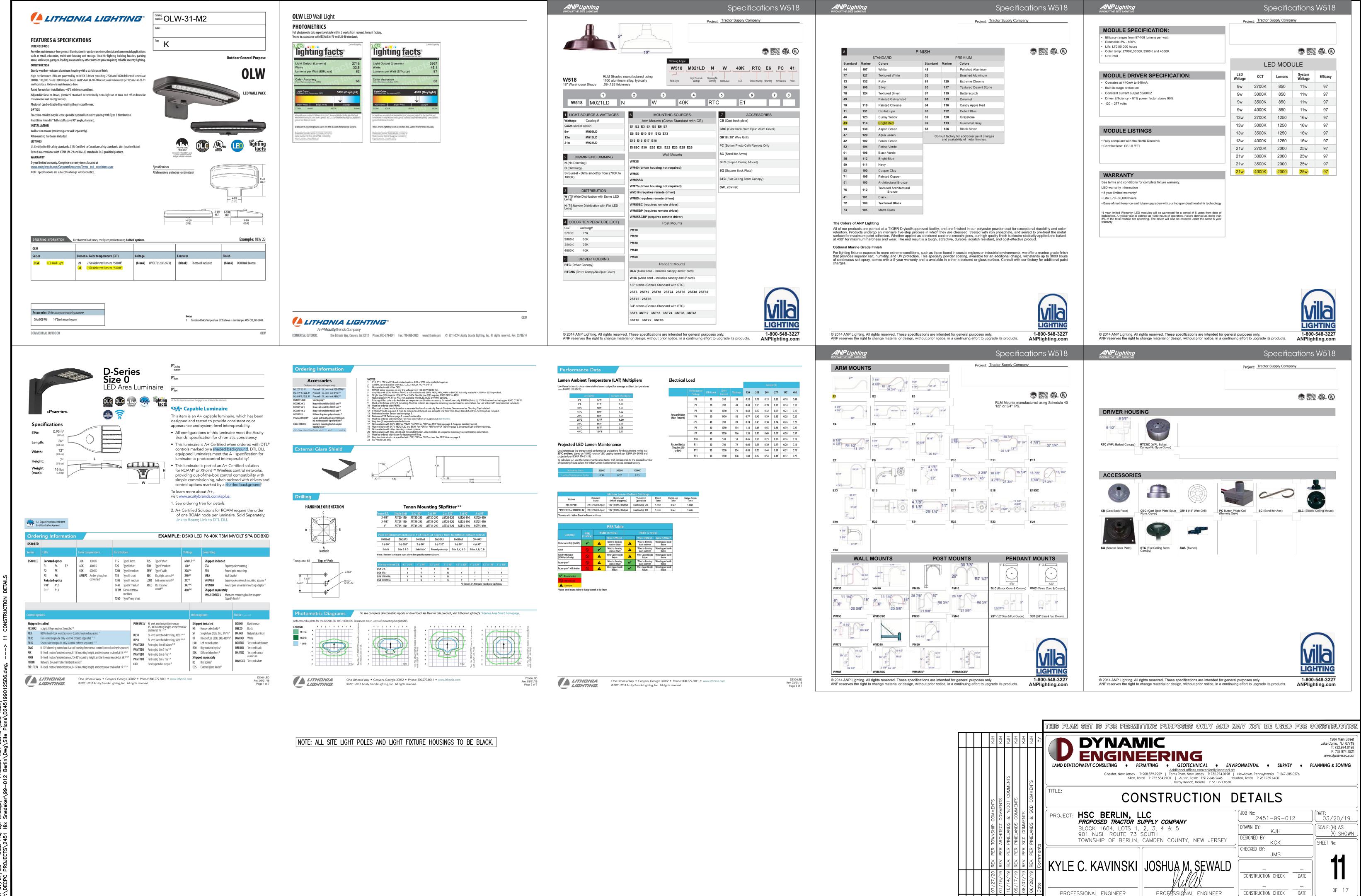
CAMDEN COUNTY SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- 2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY
- 3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- 4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE
- 5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW</u> JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER ND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAMDEN COUNTY SOIL NSERVATION DISTRICT.
- 7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- 8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT
- 10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS
- 11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 13. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN 14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL) THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
- 16. NJSA 4:24-39, ET SEO. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- 17. MULCHING IS REOUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
- 18. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- 19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- 20. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
- 21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
- 22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
- 23. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROI
- 24. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS.
- TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS (</u>I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER). 26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1
- UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- 27. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER. 28. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE
- PROPOSED SITE. 29. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- 30. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
- 31. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN
- 32. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

SEQUENCE OF CONSTRUCTION:



- EXCAVATION. NEW 48" RCP STORMWATER PIPE TO BE CONSTRUCTED BEFORE EXISTING 48" RCP IS REMOVED. (1-2 MONTHS) PHASE 3: EXCAVATION, CONSTRUCTION, AND STABILIZATION OF DETENTION BASIN(S), EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES. (1–2 MONTHS)



NEW JERSEY/LICENSE No. 52908

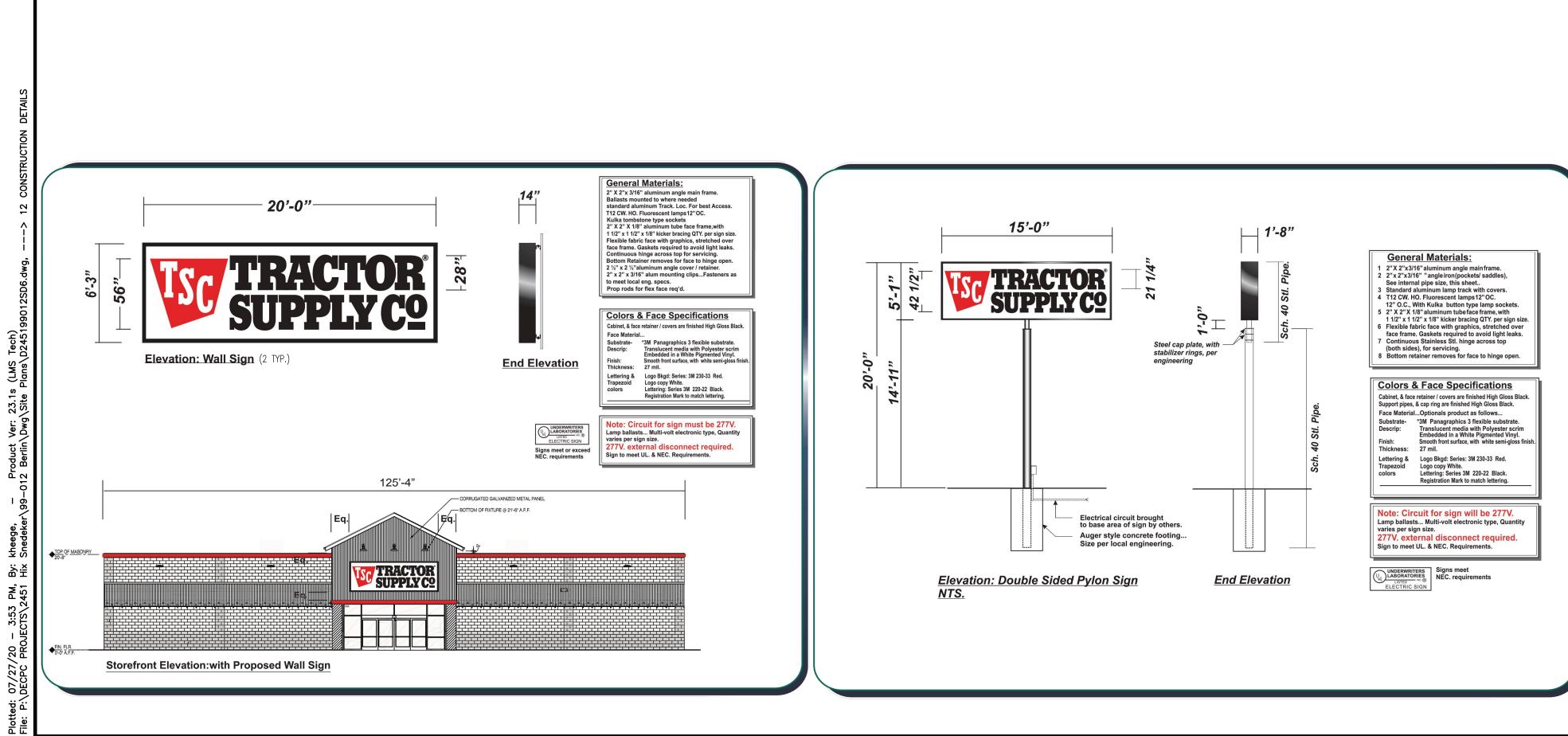
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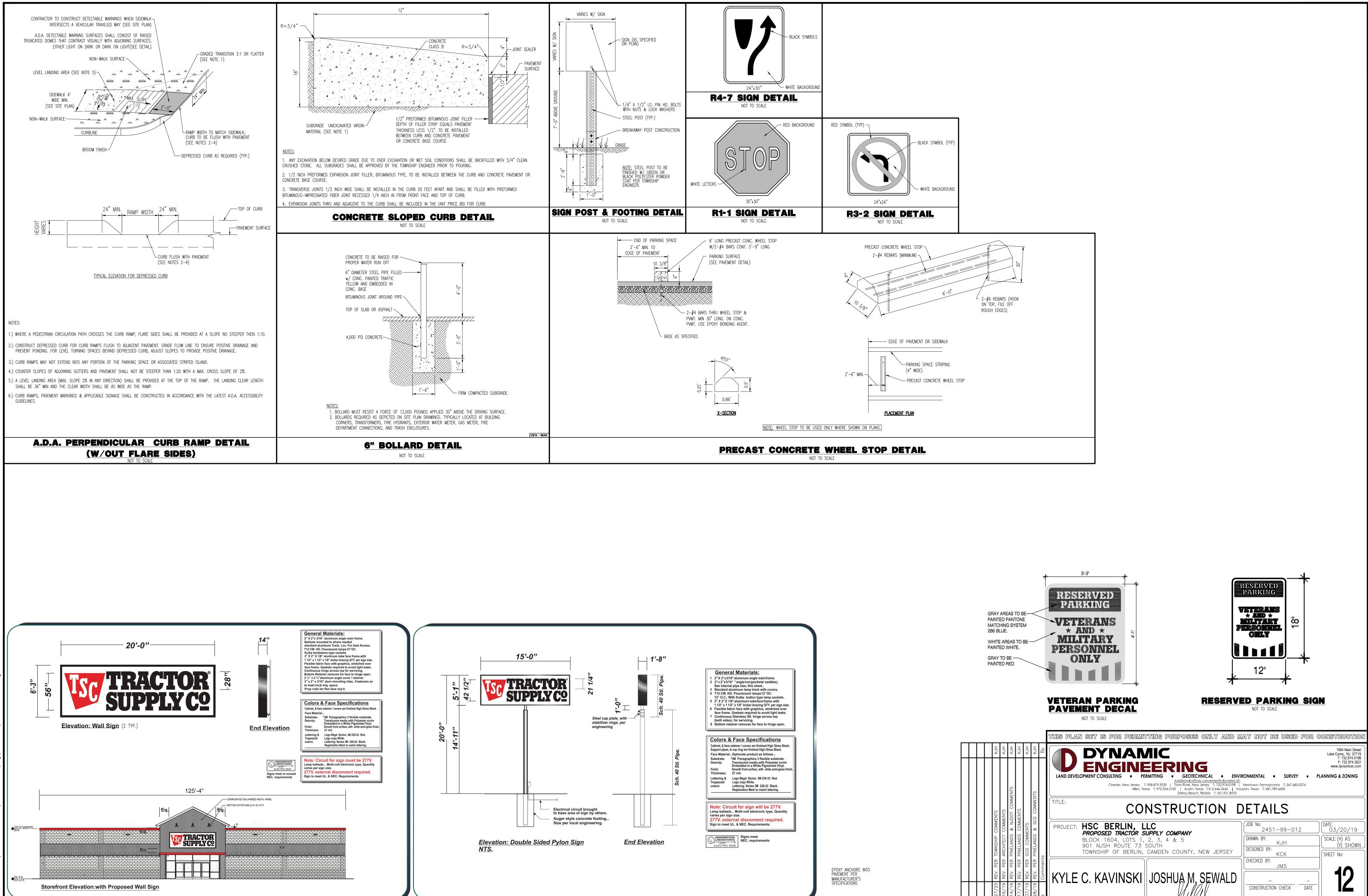
Rev. # 6

NEW JERSEY LICENSE No. 52985

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VERTICAL SIGNAGE

OF 17

Rev. # 6

CONSTRUCTION CHECK DATE

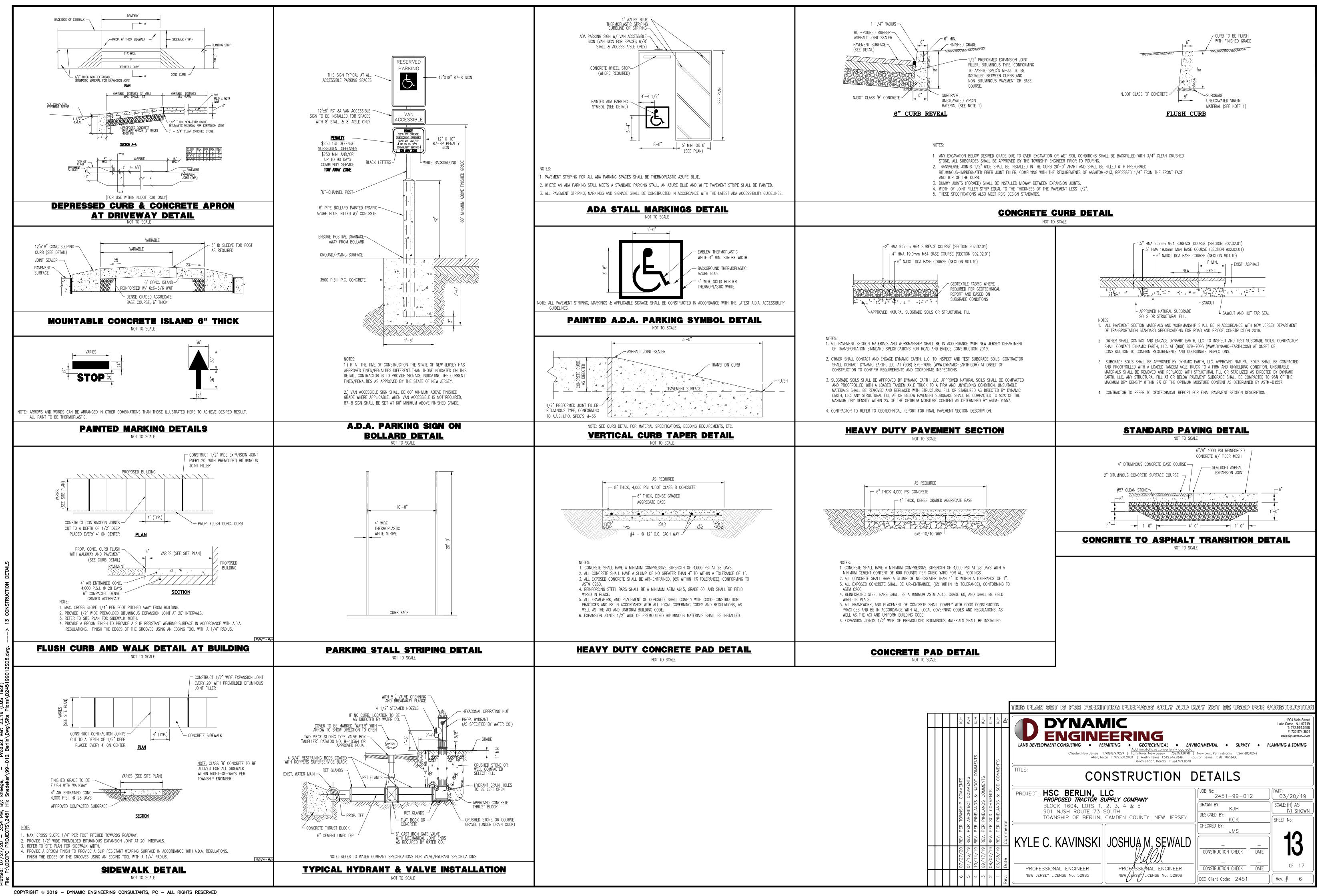
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PROFESSIONAL ENGINEER

NEW JERSEY/LICENSE No. 52908

PROFESSIONAL ENGINEER

NEW JERSEY LICENSE No. 52985



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