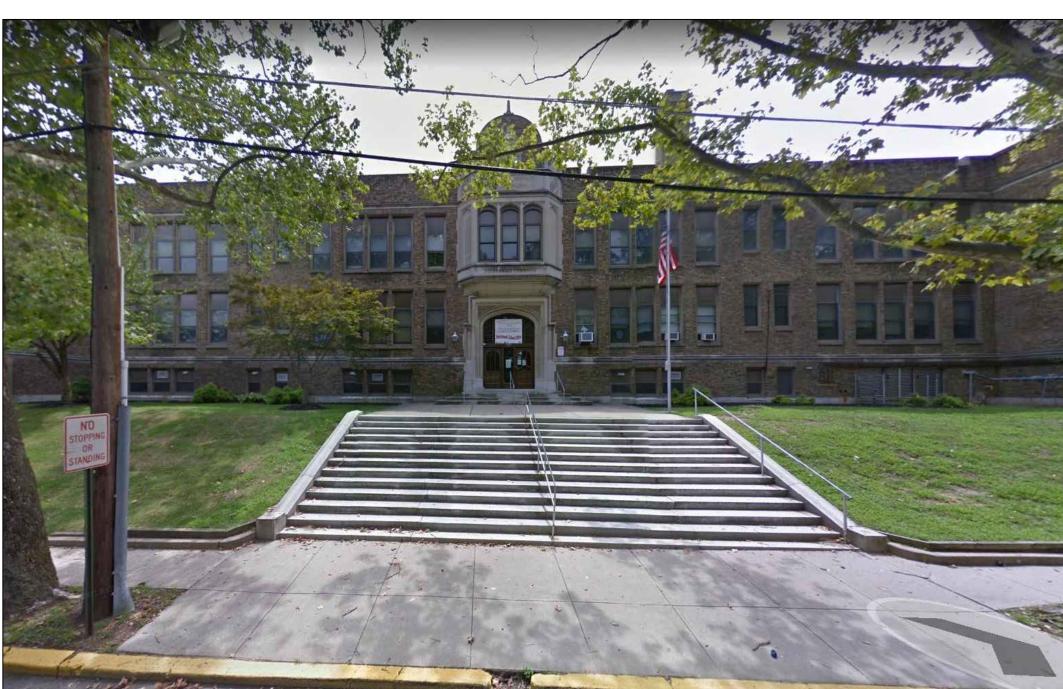
ROOSEVELTSTEMSCHOOL ADDITION AND RENOVATIONS

5526 WISTERIA AVENUE PENNSAUKEN, NEW JERSEY 08109

FOR THE PENNSAUKEN TOWNSHIP BOARD OF EDUCATION 1695 HYLTON ROAD PENNSAUKEN, NEW JERSEY 08110

PROJECT NUMBERS: 20-66 TYPE OF CONSTRUCTION: 2B USE GROUP: E

INDEX OF DRAWINGS



BUILDING ELEVATION

ENVIRONMENTAL CONSULTANT:

NJ UCC BULLETIN 00-3: PUBLIC SCHOOLS-FACILITY PLANNING STANDARDS &

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ARCADIS U.S., INC. 10 FRIENDS LANE, SUITE 200, NEWTOWN, PA 18940 PHONE: 267-685-1711 FAX: 267-685-1801

INTERNATIONAL BUILDING CODE/2018/ NJ EDITION

INTERNATIONAL MECHANICAL CODE/2018 INTERNATIONAL FUEL GAS CODE/2018

NATIONAL STANDARD PLUMBING CODE/2018 ASHRAE 90.1-2016 ENERGY STANDARD

NATIONAL ELECTRICAL CODE(NFPA 70)/2017

BARRIER FREE SUBCODE: ICC/ANSI A117.1-2009

N.J. REHAB CODE NJAC 5: 23-6, NJUCC. SUBCHAPTER 6, 2018

DESIGN CODES:

INTERNATIONAL FIRE CODE/2018

UCC ENHANCEMENTS

ELEVATOR SUBCODE (NJAC 5: 23-12):

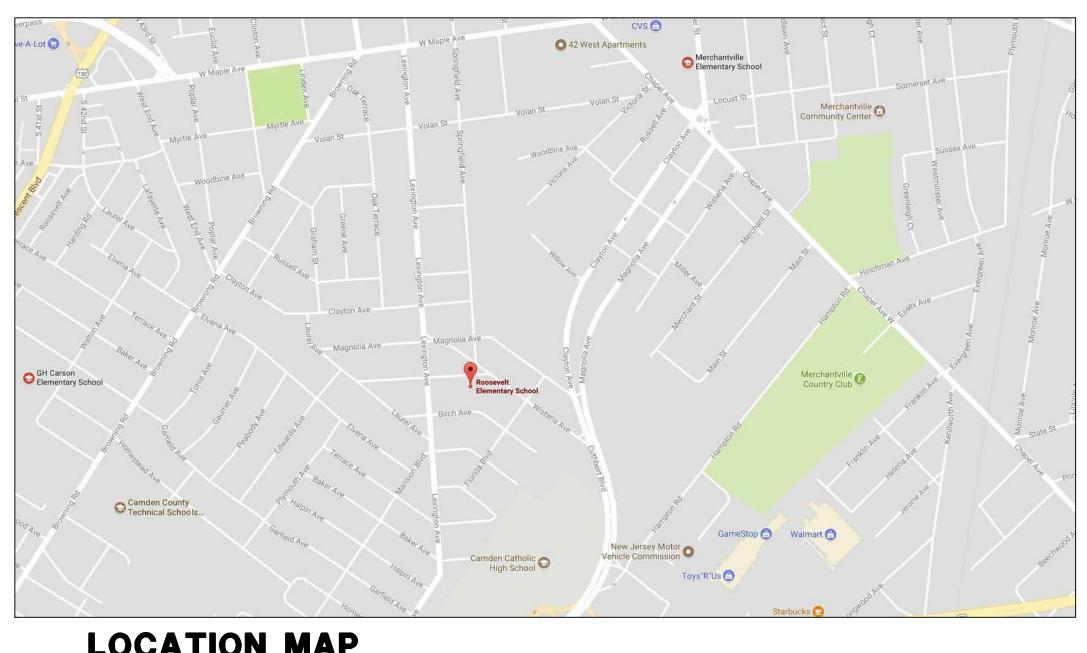
CONSTRUCTION MANAGER:

REMINGTON & VERNICK ENGINEERS 232 KINGS HIGHWAY EAST, HADDONFIELD, NJ 08033 PHONE: 856-795-9595 FAX: 856-795-1882

CIVIL, MECHANICAL, PLUMBING, ELECTRICAL ENGINEER:

REMINGTON & VERNICK ENGINEERS 232 KINGS HIGHWAY EAST, HADDONFIELD, NJ 08033 PHONE: 856-795-9595 FAX: 856-795-1882





LOCATION MAP

	COVER SHEET & DRAWING INDEX		COVER SHEET & DRAWING INDEX
C.0	CIVIL LEGEND & NOTES	M-1.0	MECHANICAL MECHANICAL COVER SHEET
C.1	EXISTING TOPOGRAPHIC CONDITIONS PLAN	M-1.1	MECHANICAL COVER SHEET MECHANICAL DEMOLITION BASEMENT FLOOR PLAN
C.2	DEMOLITION PLAN	M-1.2	MECHANICAL DEMOLITION FIRST FLOOR PLAN
C.3	SITE PLAN	M-1.3	MECHANICAL DEMOLITION SECOND FLOOR PLAN
C.4	GRADING & UTILITY PLAN	M-1.4	MECHANICAL DEMOLITION ROOF PLAN
C.5	SOIL EROSION & SEDIMENT CONTROL PLAN	M-1.5	MECHANICAL DEMOLITION ENLARGED BOILER ROOM PLANS
C.6	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS	M-2.1	MECHANICAL BASEMENT FLOOR PLAN
C.7	CONSTRUCTION DETAILS	M-2.2	MECHANICAL FIRST FLOOR PLAN
C.8	CONSTRUCTION DETAILS	M-2.3	MECHANICAL SECOND FLOOR PLAN
		M-2.4 M-2.5	MECHANICAL ROOF PLAN MECHANICAL ENLARGED BOILER ROOM PLAN
	ARCHITECTURAL	M-4.1	MECHANICAL DETAILS
D1.1	EXISTING/DEMO BASEMENT FLOOR PLAN	M-4.2	MECHANICAL DETAILS
D1.2	EXISTING/DEMO FIRST FLOOR PLAN	M-4.3	MECHANICAL DETAILS
D1.3	EXISTING/DEMO SECOND FLOOR PLAN	M-4.4	MECHANICAL DETAILS
D1.4	EXISTING/DEMO ROOF PLAN	M-4.5	MECHANICAL HEATING HOT WATER PIPING SYSTEM DISTRIBUTION FLOW D
A-1.1	BASEMENT EGRESS PLAN	M-5.1	MECHANICAL SCHEDULES
A-1.2 A-1.3	FIRST FLOOR EGRESS PLAN	M-5.2	MECHANICAL SCHEDULES
A-1.3 A-2.1	SECOND FLOOR EGRESS PLAN BASEMENT FLOOR PLAN		
A-2.2	FIRST FLOOR PLAN		PLUMBING
A-2.3	SECOND FLOOR PLAN		
A-2.4	ENLARGED TOILET PLANS	P-1.1	PLUMBING DEMOLITION BASEMENT FLOOR PLAN
A-2.5	ROOF PLAN & PHOTO SHEET	P-1.2	PLUMBING DEMOLITION FIRST FLOOR PLAN
A-2.6	NOTES AND SCHEDULES	P-1.3	PLUMBING DEMOLITION SECOND FLOOR PLAN
A-2.7	ROOF DETAIL SHEET	P-1.4	PLUMBING DEMOLITION ROOF PLAN
A-2.8	ROOF DETAIL SHEET	P-1.5	PLUMBING ENLARGED DEMOLITION BOILER ROOM PLAN
A - 3.1	BUILDING ELEVATIONS I	P-2.1	PLUMBING SANITARY PIPING BASEMENT FLOOR PLAN
A-3.2 A-3.3	BUILDING ELEVATIONS II BUILDING ELEVATIONS III	P-2.2 P-2.3	PLUMBING SANITARY PIPING FIRST FLOOR PLAN PLUMBING SANITARY PIPING SECOND FLOOR PLAN
$\frac{A-3.3}{A-4.1}$	BUILDING SECTIONS	P-2.4	PLUMBING SANITARY PIPING SECOND FLOOR PLAN PLUMBING ENLARGED SANITARY PIPING FLOOR PLANS
A-4.2	BUILDING SECTIONS	P-3.1	PLUMBING UTILITY PIPING BASEMENT FLOOR PLAN
A-4.3	WALL SECTIONS	P-3.2	PLUMBING UTILITY PIPING FIRST FLOOR PLAN
A-4.4	WALL SECTIONS	P-3.3	PLUMBING UTILITY PIPING SECOND FLOOR PLAN
A-5.1	DOOR SCHEDULE	P-3.4	PLUMBING UTILITY PIPING ROOF PLAN
A-5.2	DOOR DETAIL SHEET	P-3.5	PLUMBING ENLARGED UTILITY PIPING FLOOR PLANS
A-5.3	DOOR DETAIL SHEET	P-3.6	PLUMBING ENLARGED UTILITY PIPING BOILER ROOM PLAN
A-5.4	DOOR DETAIL SHEET	P-4.1	PLUMBING SANITARY PIPING RISER DIAGRAM
A-5.5 A-5.6	WINDOW TYPES WINDOW TYPES	P-4.2 P-4.3	PLUMBING UTILITY PIPING RISER DIAGRAM PLUMBING NATURAL FUEL GAS PIPING RISER DIAGRAM
A-5.7	WINDOW TIFES WINDOW DETAILS	P-5.1	PLUMBING DETAILS
A-5.8	WINDOW TYPES	P-6.1	PLUMBING SCHEDULES
A-5.9	ROOM FINISH SCHEDULE		
A-5.10	ROOM FINISH SCHEDULE		
A-5.11	WALL TYPES I		ELECTRICAL
A-5.12	WALL TYPES II	E-1.0	ELECTRICAL COVER SHEET
A-6.1	REFLECTED CEILING PLAN (BASEMENT)	E-1.1	ELECTRICAL DEMOLITION BASEMENT FLOOR PLAN
A-6.2	REFLECTED CEILING PLAN (FIRST FLOOR) REFLECTED CEILING PLAN (SECOND FLOOR)	E-1.2	ELECTRICAL DEMOLITION FIRST FLOOR PLAN
A-6.3 A-7.1	STAIR & LIFT DETAIL SHEET	E-1.3 E-1.4	ELECTRICAL DEMOLITION SECOND FLOOR PLAN ELECTRICAL DEMOLITION ROOF PLAN
A-7.1 A-7.2	STAIR & LIFT DETAIL SHEET	E-1.4 E-2.1	ELECTRICAL DEMOLITION ROOF PLAN ELECTRICAL LIGHTING BASEMENT FLOOR PLAN
A-8.1	FURNITURE PLAN (BASEMENT)	E-2.1A	ELECTRICAL LIGHTING BASEMENT FLOOR FLAN ELECTRICAL LIGHTING BASEMENT FLOOR PLAN (REFERENCE ONLY)
A-8.2	FURNITURE PLAN (FIRST FLOOR)	E-2.2	ELECTRICAL LIGHTING FIRST FLOOR PLAN
A-8.3	FURNITURE PLAN (SECOND FLOOR)	E-2.2A	ELECTRICAL LIGHTING FIRST FLOOR PLAN (REFERENCE ONLY)
A-8.4	FURNITURE LIST & ELEVATIONS	E-2.3	ELECTRICAL LIGHTING SECOND FLOOR PLAN
A-9.1	MILLWORK	E-2.3A	ELECTRICAL LIGHTING SECOND FLOOR PLAN (REFERENCE ONLY)
A-10.1	ENLARGED KITCHEN PLAN		ELECTRICAL EXTERIOR LIGHTING PLAN (REFERENCE ONLY)
		E-3.1	ELECTRICAL POWER BASEMENT FLOOR PLAN
	STRUCTURAL	E-3.2 E-3.3	ELECTRICAL POWER FIRST FLOOR PLAN ELECTRICAL POWER SECOND FLOOR PLAN
S-1	STRUCTURAL STRUCTURAL COVER SHEET	E-3.4	ELECTRICAL POWER SECOND FLOOR PLAN ELECTRICAL HVAC POWER BASEMENT FLOOR PLAN
S-2	PILE PLAN	E-3.5	ELECTRICAL HVAC FOWER FIRST FLOOR PLAN
S-3	FOUNDATION PLAN	E-3.6	ELECTRICAL HVAC POWER SECOND FLOOR PLAN
S-4	BASEMENT TOP SLAB AND LINTEL PLAN	E-3.7	ELECTRICAL HVAC POWER ROOF PLAN
S-5	LOW ROOF FRAMING PLAN	E-4.1	ELECTRICAL SYSTEMS BASEMENT FLOOR PLAN
S-6	TOP SLAB, LINTEL AND FRAMING PLANS - FIRST FLOOR	E-4.2	ELECTRICAL SYSTEMS FIRST FLOOR PLAN
S-7	TOP SLAB, LINTEL AND FRAMING PLANS — SECOND FLOOR	E-4.3	ELECTRICAL SYSTEMS SECOND FLOOR PLAN
S-8	HIGH ROOF FRAMING PLAN	E-5.1	ELECTRICAL SINGLE LINE DIAGRAMS
S-9	ROOFTOP UNIT STEEL DUNNAGE PLAN	E-5.2	ELECTRICAL DETAILS
C 10	STAIRS AND RAMP PLANS, SECTIONS AND DETAILS	E-5.3 E-5.4	ELECTRICAL DETAILS ELECTRICAL DETAILS
S-10	I SECTIONS AND DETAILS	_{III} ∟−3.4	
S-11	SECTIONS AND DETAILS	F_6 1	FLECTRICAL SCHEDLILES
	SECTIONS AND DETAILS SECTIONS AND DETAILS	E-6.1 E-6.2	ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES
S-11		E-6.1 E-6.2	ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES

INDEX OF DRAWINGS

STANDARD LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED

NOTE: ALL SYMBOLS MAY NOT BE USED												
ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	
	OVERHEAD WIRE				CROWS FOOT	Ϋ́			EDGE OF PAVEMENT			
	SANITARY FORCE MAIN PIPE		FM		AERIAL TARGET		+		CURB			
	STORM SEWER PIPE ≤12"		D		CONCRETE MONUMENT	⊡	■ (SET)		PAVEMENT / CONC. / SIDEWALK	BITUMINOUS/ASPHALT	ASPHALT DRIVEWAY	
	STORM SEWER PIPE > 12"	(SIZE & TYPE) = = =	= <u>(SIZE & TYPE)</u> = =		PK / MAG NAIL	0	• (SET)			CONCRETE	CONCRETE	
	GAS SERVICE		G		DRILL HOLE SPIKE					BRICK/PAVERS	BRICK/PAVERS	
	SANITARY SEWER PIPE ≤12"	s	s		DRILL HOLE W/ WINGS	- <mark> </mark> -				STONE	STONE	
	SANITARY SEWER PIPE > 12"	(SIZE & TYPE) 	<u> </u>		STAKE	Δ	▲ (SET)				MILLING	
	ELECTRIC SERVICE	E	———Е——		HUB	Δ	Δ (SET)		LIMIT OF EXCAVATION			
	FIBER OPTIC SERVICE	F0	F0		PIN W/ CAP IRON PIPE	©	• (SET)		GUIDE RAIL		<u> </u>	
	TELEPHONE SERVICE	Τ ———	т		IRON PIN		• (SET)		BOLLARD	0	Ø	
	COMMUNICATIONS SERVICE		c		CROSS CUT	×	■ (SET)	S S	MAILBOX	М	M	
	IRRIGATION PIPE		IRR		DISK				SIGNS	• • •	 +	
	WATER SERVICE		w	S	STONE	0			FLAG POLE	\sim	•~	
	WATER SHUT-OFF	w.S.o			REBAR	⊗		A	BENCH			
	WATER METER	w _w	₩₩		BASELINE	+- 00		8	PILE		©	
	WATER VALVE	wv ⊠	M NEW M RESET		CENTERLINE				DETECTABLE WARNING SURFACE	п	£88 ■	
	WATER HYDRANT	HYD	▼ NEW ▼ RESET		EASEMENT			∞	TYPICAL STRIPING			
	WELL	@	®		RIGHT-OF-WAY				ADA STRIPING	Ł	<u></u>	
	YARD HYDRANT	Ø			PROPERTY BOUNDARY			.	TRAFFIC CONTROL BOX	TCB	⊠	
	METER PIT	•			ADJACENT PROPERTY BOUNDARY				TRAFFIC LIGHT		(ARM TO SCALE)	
	GAS SHUT-OFF	<i>્</i> ક્			RAILROAD TRACKS	+ + + + + + + + + + + + + + + + + + + +			DEPT. OF TRANSPORTATION MANHOLE	<i>@</i>		
UTILITES	GAS METER	EM			STATE BOUNDARY				STATE HIGHWAY DEPARTMENT	[®] MANHOLE ^{SHD} BOX		
	GAS VALVE	€V	M NEW M RESET		MUNICIPAL / COUNTY BOUNDARY				RAILROAD CROSSING BEACON	⊠		
	GAS LINE MARKER	- G -							CALL BOX	⊗		
	CLEANOUT	8	•	 	BORING LOCATION	₩ 8-#	♦ B−#		OIL FILL	•		
	SEWER VENT	₩	/	 	MONITORING WELL LOCATION	⊕ MW-#	● MW-#		UNDERGROUND STORAGE TANK LID	UST		
	INLET TYPE A		RESET RECONSTRUCT	RUCT Ξ	TEST PIT LOCATION	₽ 7₽−#	r TP−#		RISER PIPE	E .		
	INLET TYPE B		RESET / RECONSTRUCT		FRESHWATER WETLAND FLAG	X FW−#			RAISED PAVEMENT MARKER	Ø	•	
	INLET TYPE E		RESET RECONSTRUCT	0	FRESHWATER WETLAND LINE	· · · · · · · · · · · ·	· · · · · · · · 					
	AREA DRAIN		•		FRESHWATER WETLAND BUFFER			MISC.	BBQ GRILL			
	MANHOLES	S SANITARY © DRAINAGE TO TELEPHONE W WATER © CATV @ UNDERDRAIN	🌘 NEW 🕢 RESET 🔞 RECONSTRUCT		EDGE OF WATER				WATER FOUNTAIN	WE		
		© ELECTRIC © GAS ₩ UNKNOWN			STREAM CENTERLINE				KIOSK	Ö		
	IRRIGATION CONTROL VALVE	⊠ Æ	M NEW M RESET		GRASS/SOD	**************************************			AIR CONDITIONER	.em		
	IRRIGATION CONTROL DOX	ĹL.			DECIDUOUS TREE	E CONTRACTOR OF THE PROPERTY O	SHADE ORNAMENTAL		PARKING METER	© <i>EV</i>		
	IRRIGATION CONTROL BOX			PING	SHRUBS / BUSH	€	⊙		FIRE CONTROL VALVE	M		
	SPRINKLER HEAD UNKNOWN VALVE	⊌ M	•	G	EVERGREENS		Juman State of the		BARRICADE	- u u-	-0-0-	
	COMMUNICATIONS PEDESTAL	ID		S	STUMP			GENERAL	PHOTO LOCATION			
	COMMUNICATIONS LINE MARKER	<u>c</u>		NO	WOODS / TREE LINE	·			BENCHMARK LOCATION	$\frac{\overline{BM}}{X}$		
	TELEPHONE PEDESTAL			2	WIRE FENCE	//////	//////		TYPICAL SECTION ARROW	X)	└ ►A	
	TELEPHONE LINE MARKER			\(\bar{4} \)	SPLIT RAIL FENCE	OO			MATCH LINE			
	ELEC. BOX	Ø		▎▀▘▏	WOOD / VINYL FENCE				TYPICAL NORTH ARROW	NAD-19R3		
	ELEC. METER	5€			CHAIN-LINK FENCE	XXX	XXX				ON STANDARD CONSTRUCTION SHEETS STATE PLANE COORDINATE SYSTEM.	
	ELEC. TRANSFORMER PAD	(ET)		ADING	TOP OF BANK / DITCH						, STATE FLANE COUNTINATE STATEM.	
	ELEC. VAULT	EN			BOTTOM OF BANK / DITCH	BB				BOUND, SOUTHBOUND PC POINT		
	ELEC. LINE MARKER	- [-			CONTOUR (MAJOR)	5	5		BL BASELINE G GUTTEF BM BENCH MARK GR GRATE BIT. BITUMINOUS HW HEADW	PT POINT	OF INFLECTION SHLD. SHOULDER OF TANGENCY STY. STORY R KAYLON MASONRY NAIL T.B.A. TO BE ABANDONED	
	UTILITY POLE	STANDARD W/ LIGHT W/ SOLAR			CONTOUR (MINOR)		3			ENSITY POLYETHYLENE PIPE PROP. PROPO		
	GUY ANCHOR	→			FLOW LINE / SWALE	——————————————————————————————————————	— > — — > —		C.I.P. CAST IRON PIPE IP IRON PI	N PVC POINT	OF VERTICAL CURVATURE TEL TELEPHONE OF VERTICAL INTERSECTION TEMP. TEMPORARY	
	ELEC. OUTLET	⊕	G =	R	TIME OF CONCENTRATION	>	>		C.M.P. CORRUGATED METAL PIPE L.S.T. LANDSO CULV. CULVERT L.O.M. LIMIT OF	CAPE TIE PVT POINT F MILLING R RADIUS	OF VERTICAL TANGENCY TYP. TYPICAL B. U.D. UNDERDRAIN	
	LIGHTS	[☼] POLE [♥] AREA	₩ ₩	8	SPOT GRADE	_X 3.48	χ3.48		D.C. DEPRESSED CURB L.O.P. LIMIT OF DH DRILL HOLE MB MAILBO	X RMC RIGID I	DRCED CONCRETE PIPE U.P. UTILITY POLE VAR. VARIES	
	VENT	WV7 O			ROADWAY GRADE	TC5.45 GL 4.95	TC5.45 GL4.95		DIA. DIAMETER MAX. MAXIMU DWY DRIVEWAY MIN. MINIMU D.L.D. DUOTHER DOLDER	M R.R. RAILRO	DAD	
	VENT PIPE	Ö			DRAINAGE FLOW	$\stackrel{\longleftarrow}{\Longrightarrow}$	\Rightarrow		D.I.P. DUCTILE IRON PIPE NO. NUMBEI EL. ELEVATION N.T.S. NOT TO EX. EXISTING PERF. PERFORMANCE PERFORM	SCALE SAN. SANITA	ARY	
'				ı İ				ı l	LA. LAIGHING FERF. PERFUI	SVVN. SIDEW	ALIX	

GENERAL NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE
- 4. ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
- 5. ALL GRASSED OR WOODED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDED.
- 6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT THEIR OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THEY DAMAGE.
- 8. RECONSTRUCTION OF EXISTING MANHOLES AND INLETS, INCLUDING CONCRETE CAPS AND OTHER NECESSARY MODIFICATIONS, TO ACCOMMODATE NEW INLET CONSTRUCTION, SHALL BE INCLUDED IN THE LUMP SUM BID FOR THE PROJECT.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING CONCRETE CURB NOT SHOWN TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE REMOVAL AND REPLACEMENT OF ANY DAMAGED CURB NOT DOCUMENTED PRIOR TO THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE
- 11. CONTRACTOR SHALL RESTORE ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION.

- 12. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE PAVED CARTWAY FREE AND CLEAR OF SEDIMENT EACH DAY THE WORK PROGRESSES AND AS OFTEN AS NECESSARY TO KEEP A CLEAN BROOM SWEPT CONDITION AND OR AS DIRECTED BE THE ENGINEER.
- 13. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION, DEWATERING, FITTINGS, PIPE BEDDING, SHEETING, BRACING, SHORING, INLET CONNECTIONS, TRAPS, AND SUITABLE BACKFILL MATERIAL INVOLVED IN ALL PIPE AND ASSOCIATED STRUCTURES REMOVAL, RECONSTRUCTION AND INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE LUMP SUM COST OF THE PROPOSAL REGARDLESS OF DEPTH.
- 14. AT ALL LIMITS OF PAVING (L.O.P.) THE CONTRACTOR SHALL SAWCUT, TACK COAT AND SEAL TO MATCH EXISTING PAVEMENT.
- 15. INLET SEDIMENT PROTECTION SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS SHOWN ON THE PLANS.

ENVIRONMENTAL COMMITMENTS:

- 1. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- 2. IMPLEMENT STANDARD MEASURE FOR CONSTRUCTION RELATED NOISE AND AIR QUALITY IMPACT CONTROLS.
- 3. BEST MANAGEMENT PRACTICE WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING

STORM WATER INLETS AND ENVIRONMENTALLY SENSITIVE AREAS.

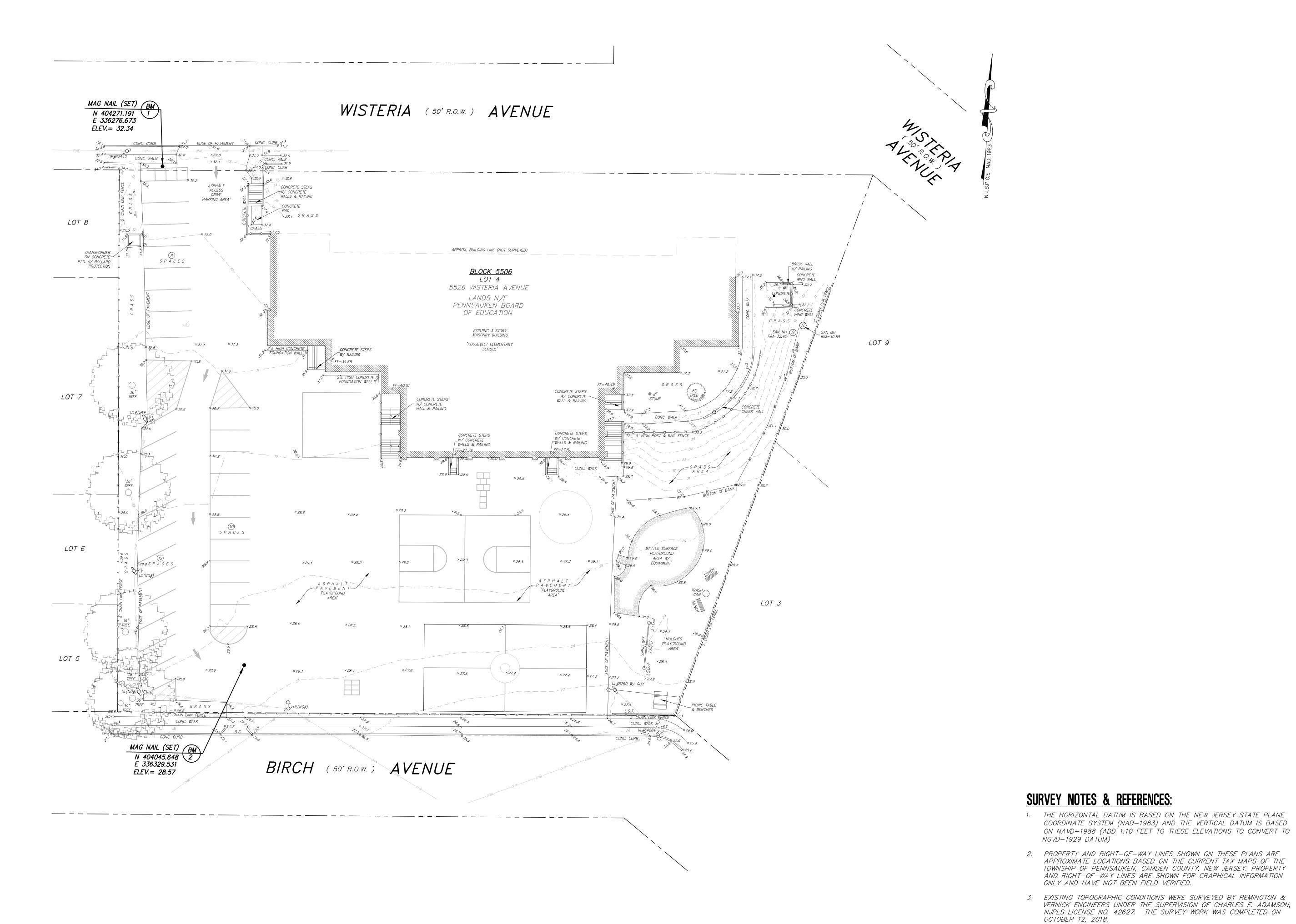
REMINGTON & VERNICK **ENGINEERS** 232 KINGS HIGHWAY EAST HADDONFIELD, NJ 08033 (856) 795-9595, FAX (856) 795-1882 WEB SITE ADDRESS: WWW.RVE.COM Certification of Authorization: 24 GA 28003300 ~ENGINEERING EXCELLENCE~ JESSICA D. HAUBER NJ PROFESSIONAL ENGINEER LIC. No. 51487 PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID. ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLI E PICK AND PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. LEGEND

DRAWN BY: DESIGN BY: CHECKED BY: SCALE: JDH JDH FJS AS NOTED 09-04-2018 JOB No.:

MP038X049

SHEET No.:

C-0



RVE

REMINGTON & VERNICK ENGINEERS
232 KINGS HIGHWAY EAST

ATE:

NJ PROFESSIONAL LAND SURVEYOR LIC. No. 42627

HADDONFIELD, NJ 08033
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

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SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON 8

DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISION DATE BY CHK

VG TOPOGRAPHIC

NDITIONS PLAN

NSAUKEN BOARD OF EDUCATION

EXISTING TOP CONDITION

DRAWN BY: DESIGN BY: CHECKED BY: SCALE:

JS JS CEA AS NOTED

DATE: SHEET No.:

09-04-2018

JOB No.:

C-1

ISSUED FOR BID: 11-13-2020

CONTRACTOR TO CALL AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION WORK.

CALL BEFORE YOU DIG

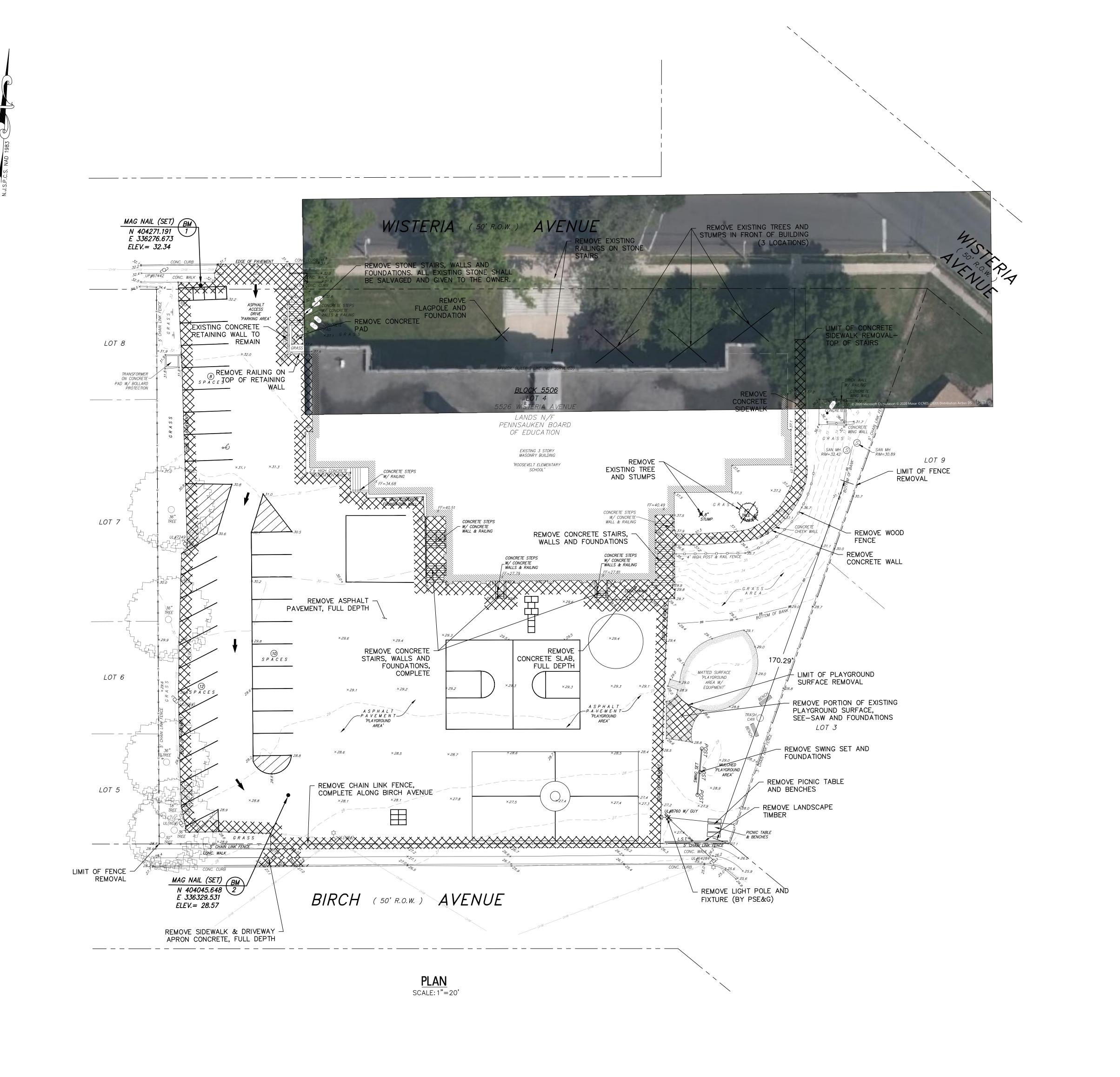
1-800-272-1000 It's THE LAW

GRAPHIC SCALE

1 inch = 20 ft.

09-04-2018

JOB No. :
MP038X049



REMINGTON & VERNICK ENGINEERS

232 KINGS HIGHWAY EAST HADDONFIELD, NJ 08033 (856) 795-9595, FAX (856) 795-1882 WEB SITE ADDRESS: WWW.RVE.COM

JESSICA D. HAUBEI

NJ PROFESSIONAL ENGINEER LIC. No. 51487

Certification of Authorization: 24 GA 28003300 ~ENGINEERING EXCELLENCE~

PLANS WHICH DONOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO. REVISION DATE BY CHK

DEMOLITION PLAN

ROOSEVELT

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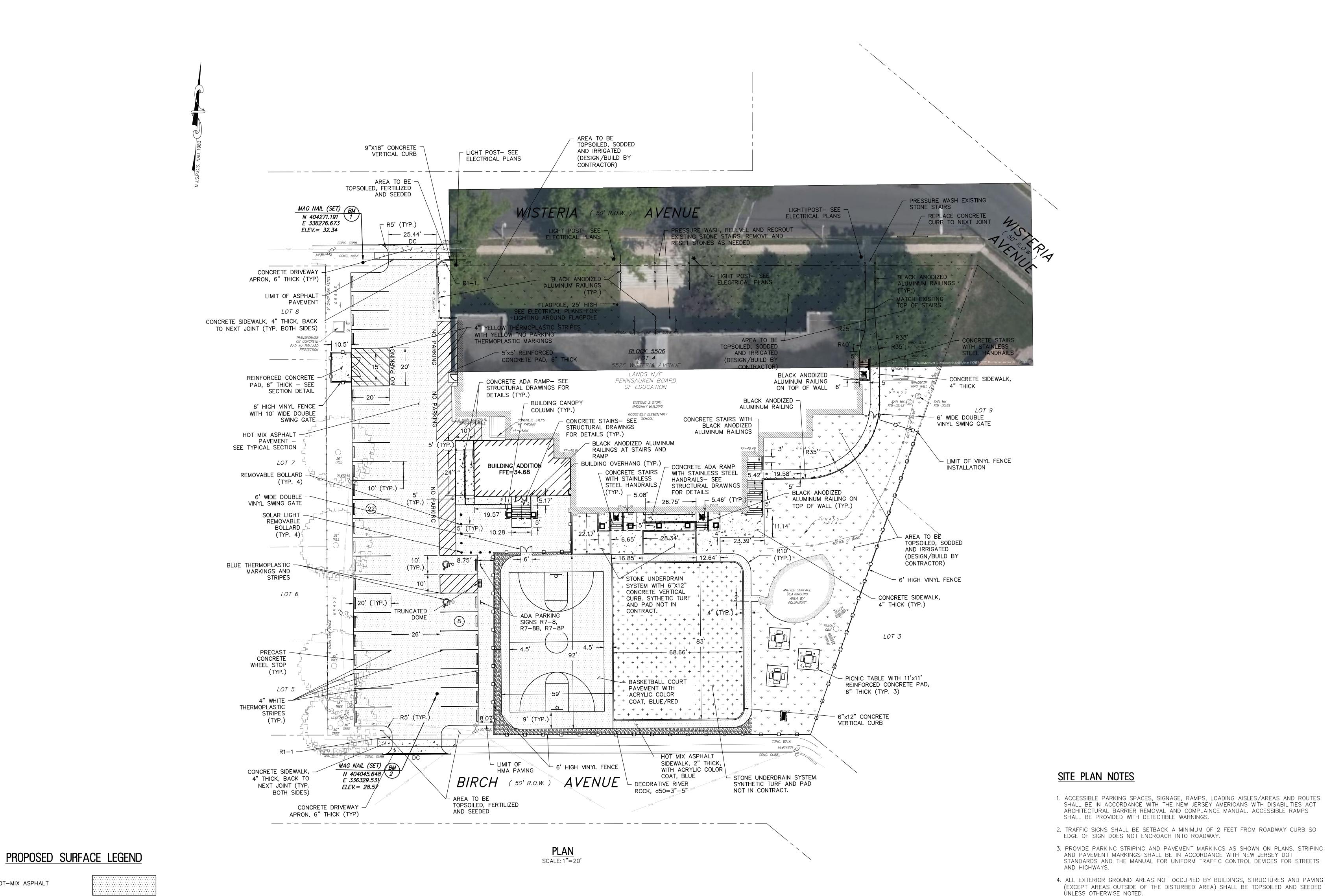
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ISSUED FOR BID: 11-13-2020

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.



HOT-MIX ASPHALT

TOPSOIL, FERTILIZE, IRRIGATE & SOD

STONE UNDERDRAIN

CONCRETE

REMINGTON & VERNICK **ENGINEERS** 232 KINGS HIGHWAY EAST HADDONFIELD, NJ 08033

> Certification of Authorization: 24 GA 28003300 ~ENGINEERING EXCELLENCE~

(856) 795-9595, FAX (856) 795-1882 WEB SITE ADDRESS: WWW.RVE.COM

NJ PROFESSIONAL ENGINEER LIC. No. 51487

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SHEET No.: 09-04-2018 JOB No.:

ISSUED FOR BID: 11-13-2020

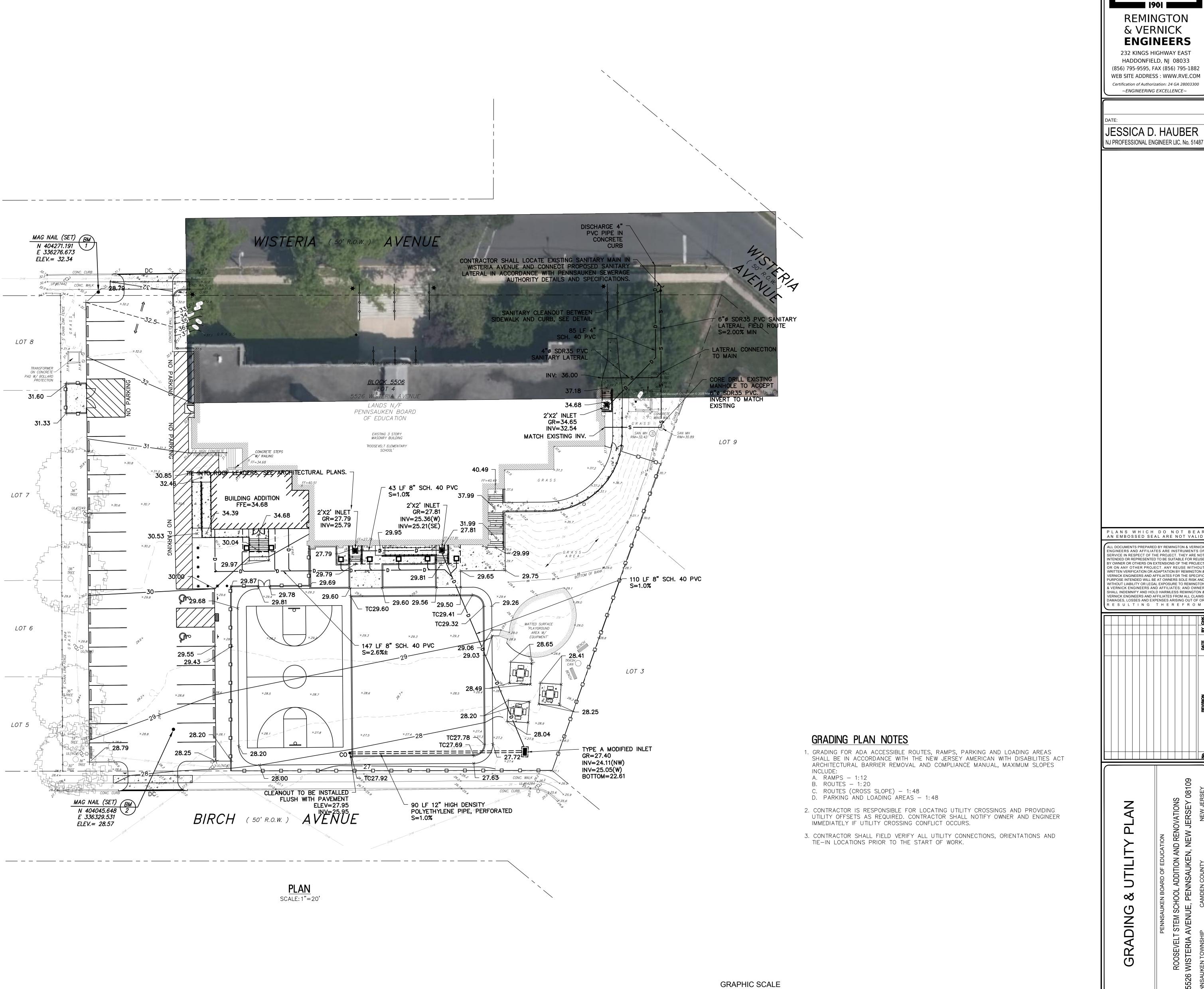
5. ALL SODDED AREAS TO BE IRRIGATED (DESIGN/BUILD BY CONTRACTOR).

LANDSCAPE IRRIGATION CONTRACTOR.

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft. 6. IRRIGATION DESIGN/INSTALLATION SHALL BE PERFORMED BY A NJDEP CERTIFIED

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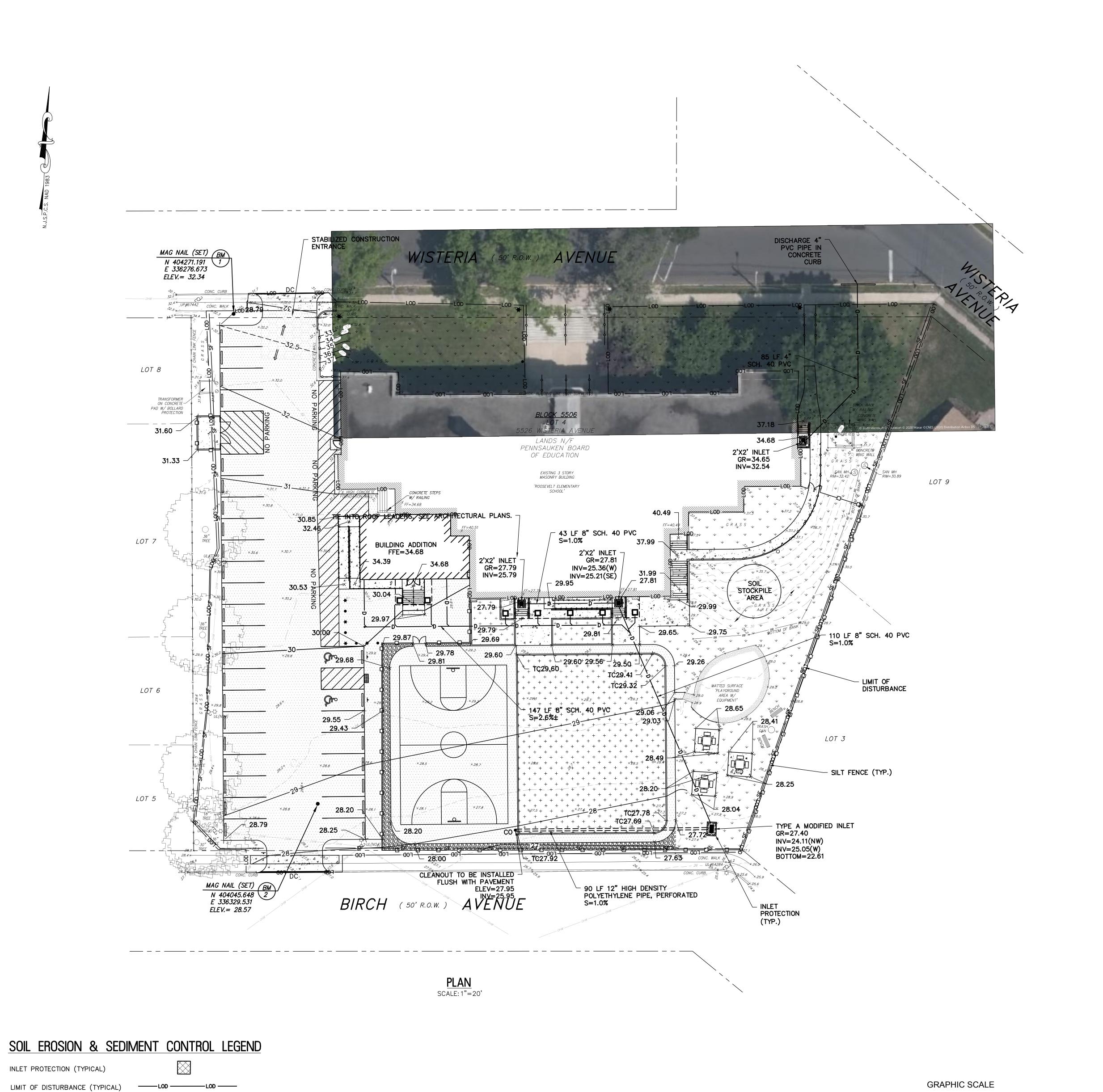
REMINGTON & VERNICK **ENGINEERS** 232 KINGS HIGHWAY EAST HADDONFIELD, NJ 08033 (856) 795-9595, FAX (856) 795-1882

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JOB No. :

ISSUED FOR BID: 11-13-2020

(IN FEET) 1 inch = 20 ft.



SILT FENCE (TYPICAL)

REMINGTON & VERNICK ENGINEERS

232 KINGS HIGHWAY EAST HADDONFIELD, NJ 08033
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM

ATE:

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PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR R E S U L T I N G T H E R E F R O M .

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TROL PLAN

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CAMDEN COUNTY

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1 inch = 20 ft.

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 (NJ STANDARDS) 3. ALL 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 WILL 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 NJ STANDARDS AT THE RATES AS SPECIFIED ON THIS PLAN. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NJ 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, AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAMDEN COUNTY SOIL CONSERVATION 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 NJ 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

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 ENTRANCE 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.

SUBSEQUENT OWNERS.

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. SEQ, REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE SSUED BEFORE ALL THE 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 PRE-REQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY. 17. MULCHING IS REQUIRED 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 48 HOURS PRIOR TO ANY LAND DISTURBANCE.

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 CONTROL. 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. 25 TEMPORARY SEEDING AND MULCH SHOULD BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS AND MULCHED WITH SALT HAY OR FOUIVALENT AND ANCHORED. IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E., PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).

21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER

FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY

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. TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND

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

2. SEEDBED PREPARATION

SITE PREPARATION

A. APPLY LIMESTONE AND FERTILIZER. 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. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS: CLAY, CLAY LOAM, AND HIGH SANDY LOAM, LOAM, SILT LOAM

PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.

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 DISCING OPERATION SHOULD BE ON TH GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED

C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE. D. SOILS HIGH ON SULFIDES OR HAVING A pH OF 4 OR LESS SHOULD BE MULCHED ONLY. SEEDING

A. SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES. B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDROSEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING

MULCHING MULCHING IS REQUIRED ON ALL SEEDING.

A. <u>MULCH MATERIALS</u> SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE 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 MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL. B. <u>SPREAD UNIFORMLY</u> BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 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

C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

1. PEG AND TWINE— DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISSCROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

. <u>CRIMPER(MULCH ANCHORING TOOL)</u>— A TRACTOR—DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

TEMPORARY SEEDING MIXTURE

THIS SEEDING MIXTURE IS COMPOSED OF A SINGLE SPECIES WHICH GERMINATES QUICKLY IN ORDER TO REDUCE SOIL EROSION UNTIL A PERMANENT VEGETATIVE COVER CAN BE COVER ESTABLISHED. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE. COMMON NAME BOTANICAL NAME PERENNIAL RYE GRASS LOLIUM PENENNE

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE ONE (1) POUND/1000 SQUARE FEET OR 44 POUNDS/ACRE. RECOMMENDED SEEDING PERIODS ARE MARCH 1-MAY 15 AND AUGUST 15-OCTOBER 1 SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE

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 MAINTENANCE

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

2. SEEDBED PREPARATION A. APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

CLAY, CLAY LOAM, AND HIGH SANDY LOAM, LOAM, SILT LOAM

PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE SENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED S PREPARED. ALL BUT CLAY OR SILTY SOILS AND COURSE SANDS SHOULD BE ROLLED O FIRM THE SEEDBED WHEREVER FEASIBLE.

SEEDING A. SEE PERMANENT SEED MIXTURE FOR SPECIES AND APPLICATION RATES. B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRIL CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO— SEEDER TANK WITH SEED. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDING, 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 COURSE TEXTURED SOIL. C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING

MULCHING IS REQUIRED ON ALL SEEDING. A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE 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 MULCHBINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.

B. <u>SPREAD UNIFORML</u>Y BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 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 C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS,

DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS. 1. PEG AND TWINE— DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS—CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH 2. <u>MULCH NETTING</u>— STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.

3. <u>CRIMPER(MULCH ANCHORING TOOL)</u>— A TRACTOR—DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALI

A. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

6. TOP DRESSING *

A. SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR QUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15 B. FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.

C. MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT

PERMANENT SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-DRY FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE. BOTANICAL NAME COMMON NAME

CLEMFINE TALL FESCUE JAMESTOWN CHEWINGS FESCUE PALMER PERENNIAL RYE

STUCA LONGIFOLIA "RELIANT" FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN" LOLIUM PERENNE "PALMER" TRIFOLIUM REPENS
PANICUM VIRGATUM "BLACKWELL" THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000

FESTUCA ARUNDINACEA "CLEMFINE"

SQUARE FEET OR 175 POUNDS/ACRE. RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 1 SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

TOPSOIL SHOULD BE USED WHERE SOILS ARE: SANDS, GRAVELY SOILS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAN pH4.0) OR SALTY (CONDACTIVITY GREATER THAN 1.0 MILLIMHOS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.

. MATERIALS A. TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH.

A pH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE

(CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER). TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

2. STRIPPING AND STOCKPILING A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING. B. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.

C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL O BRING THE SOIL PH TO 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER.

D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. B. SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL pH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS

C. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED TO PROVIDE A GOOD BOND WITH THE TOPSOIL. D. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS.

4. APPLYING TOPSOIL A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY. B. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED. SOILS WITH A pH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A pH OF 5.0 OR MORE.

1. TEMPORARY STABILIZATION — ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 30 DAYS SHOULD RECEIVE TEMPORARY STABILIZATION, ACCORDING TO THE

TEMPORARY VEGETATIVE COVER SPECIFICATIONS. 2. PERMANENT STABILIZATION - ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 10 DAYS OF FINAL GRADING, ACCORDING TO THE PERMANENT SEEDING SPECIFICATIONS.

TOTAL AREA OF DISTURBANCE: 1.35 ACRES

SEQUENCE OF CONSTRUCTION

ACTIVITY

1. CONTACT THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT AT 856-767-6299 A MINIMUM OF 72 HOURS PRIOR TO ANY SOIL DISTURBANCE TO ARRANGE A PRECONSTRUCTION MEETING.

2. THE ORIGINAL CAMDEN COUNTY SOIL CONSERVATION DISTRICT CERTIFICATION AND PLANS MUST BE AVAILABLE AT THE SITE AT ALL TIMES. 3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AND OTHER SOIL EROSION MEASURES.

4. INSTALL ALL DRAINAGE STRUCTURES AND PIPE, PERFORM ROUGH GRADING. 5. CONSTRUCT BUILDING ADDITION. 6. UPON BUILDING COMPLETION, INSTALL PAVING, WALKWAYS AND CONCRETE CURB.

7. INSTALL IRRIGATION, SEEDING AND SODDING. 8. CONTACT THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT FOR FINAL INSPECTION. 9. REMOVE ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES.

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

A. SOIL COMPACTION TESTING REQUIREMENTS 1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL

3. <u>COMPACTION TESTING LOCATIONS</u> ARE DENOTED ON THE PLAN. LOCATION ID'S SHALL BE USED TO COMPLETE THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR

4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING THE EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.

B. <u>COMPACTION TESTING METHODS</u>

1. PROBING WIRE TEST (SEE DETAIL)

2. HAND-HELD PENETROMETER TEST (SEE DETAIL)

AS PART OF THE SEQUENCE OF CONSTRUCTION.

3. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL REQUIRED) 4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL REQUIRED)

5. NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

6. DETAILED REQUIREMENTS FOR EACH COMPACTION TESTING METHOD CAN BE FOUND IN SECTION 19 "STANDARD FOR LAND GRADING" OF THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.

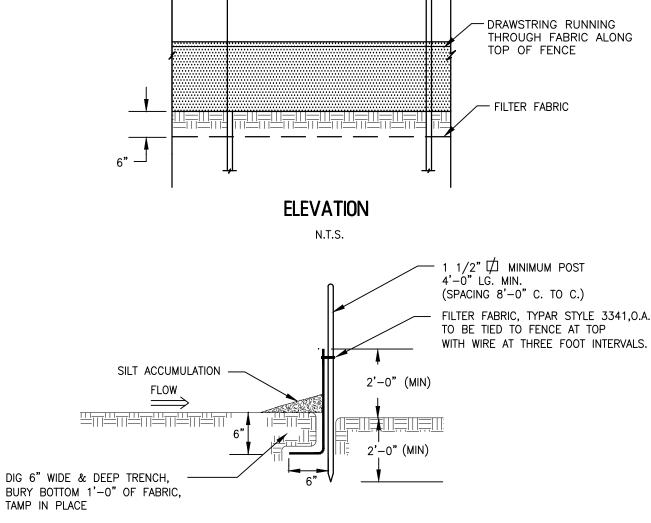
7. <u>SOIL COMPACTION TESTING IS NOT REQUIRED</u> IF/WHEN SUBSOIL COMPACTION

REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED

C. PROCEDURES FOR SOIL COMPACTION MITIGATION

1. PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

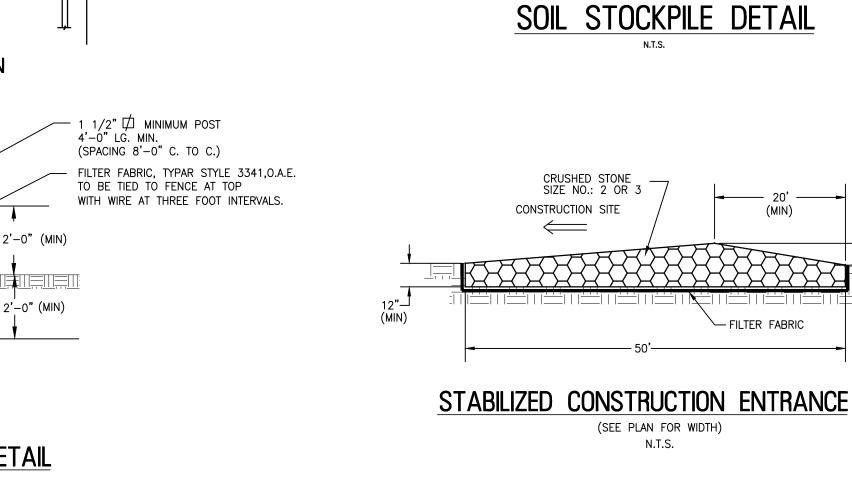
RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



FENCE DETAIL N.T.S.

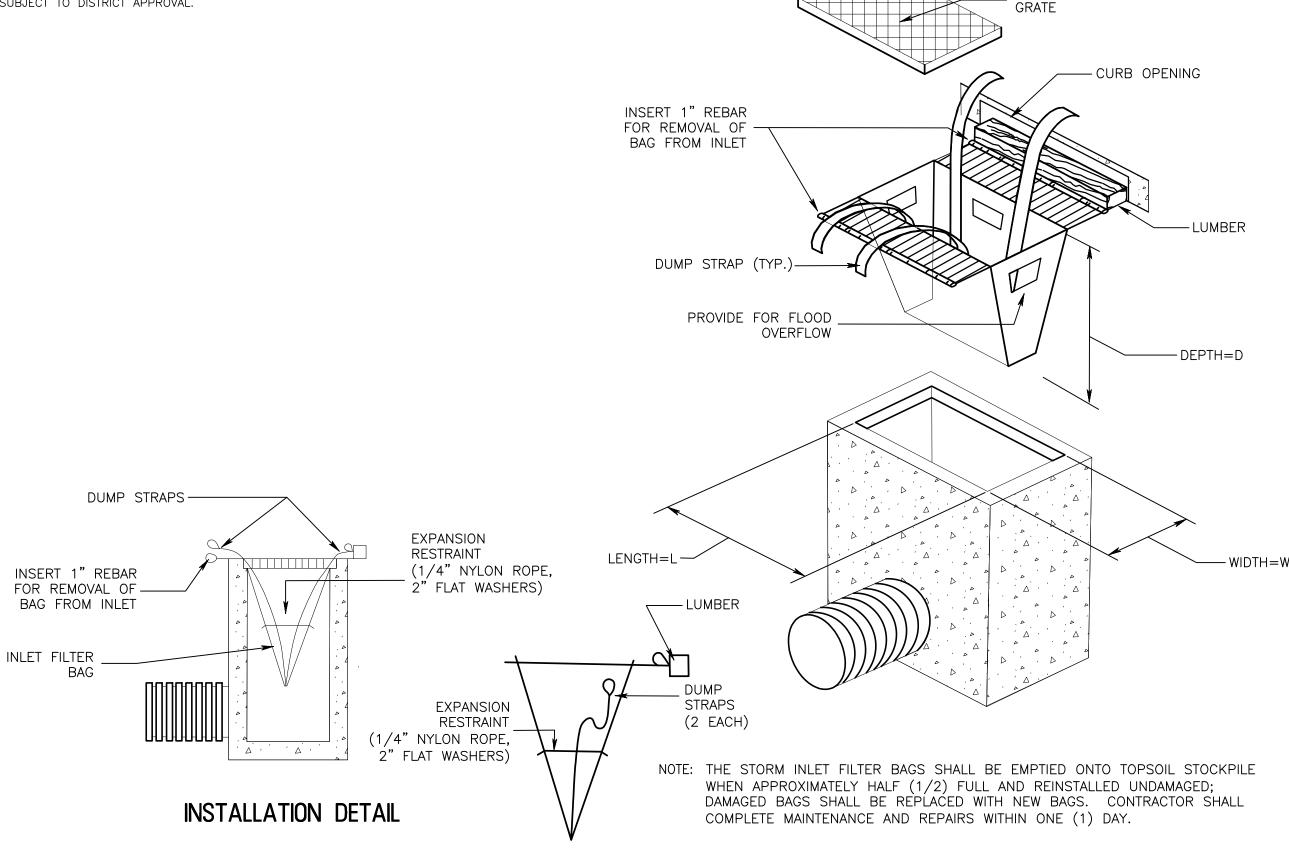
SECTION

N.T.S.



SILT FENCE PERIMETER -

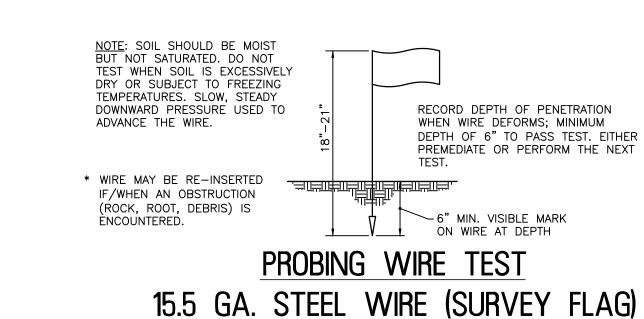
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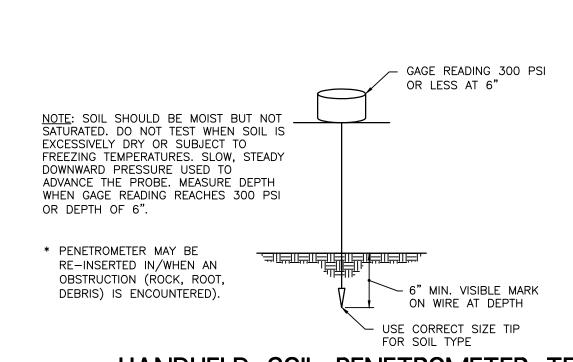
BAG DETAIL

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY!

INLET SEDIMENT PROTECTION STRUCTURE



CLEARANCE (TYP.)



HANDHELD SOIL PENETROMETER TEST

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REMINGTON

ENGINEERS

232 KINGS HIGHWAY EAST

HADDONFIELD, NJ 08033

(856) 795-9595, FAX (856) 795-1882

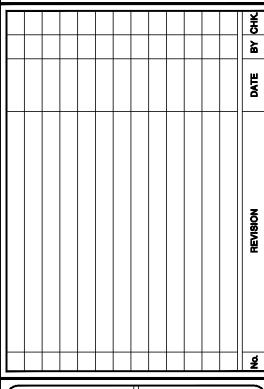
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Certification of Authorization: 24 GA 28003300

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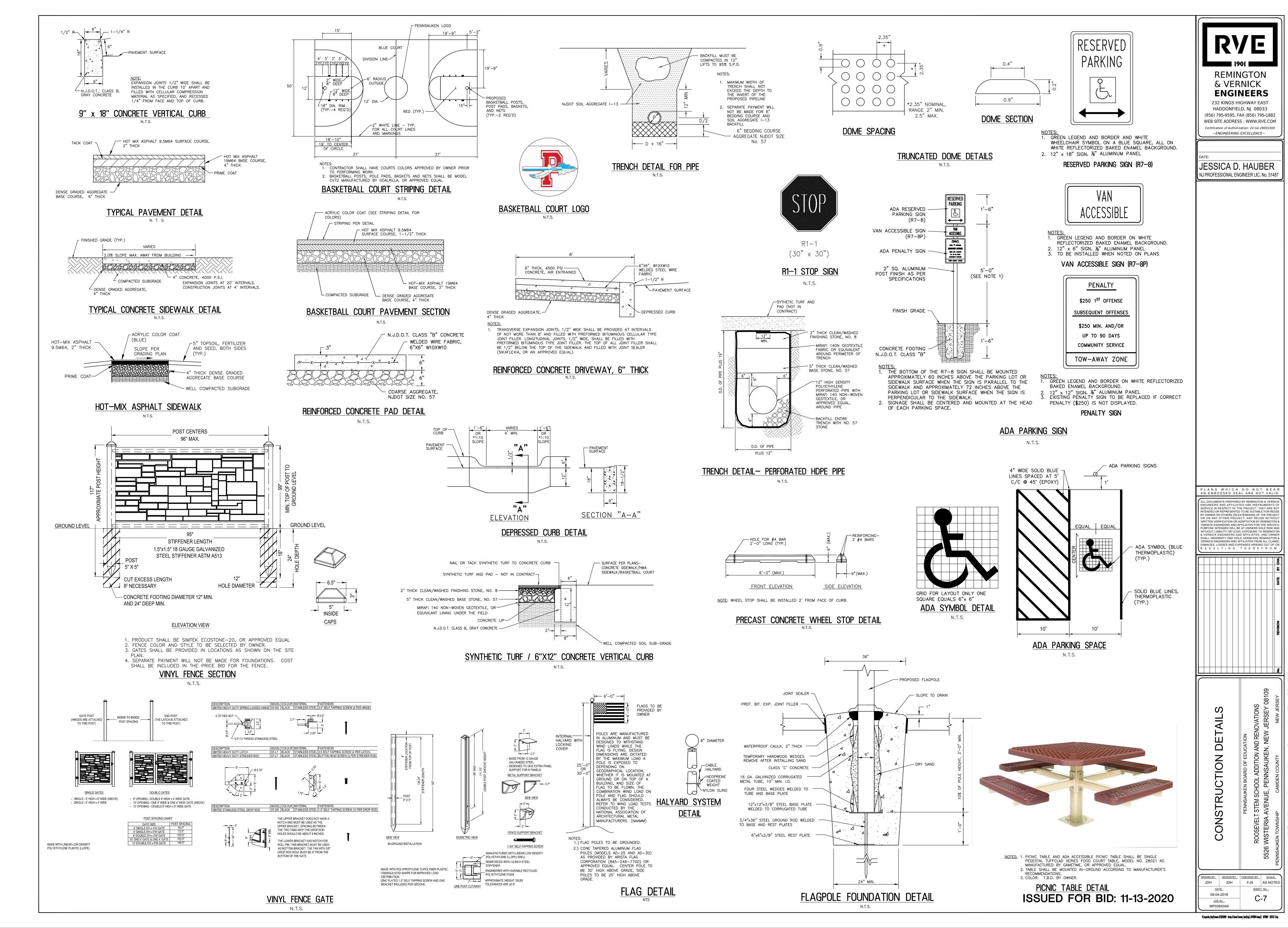
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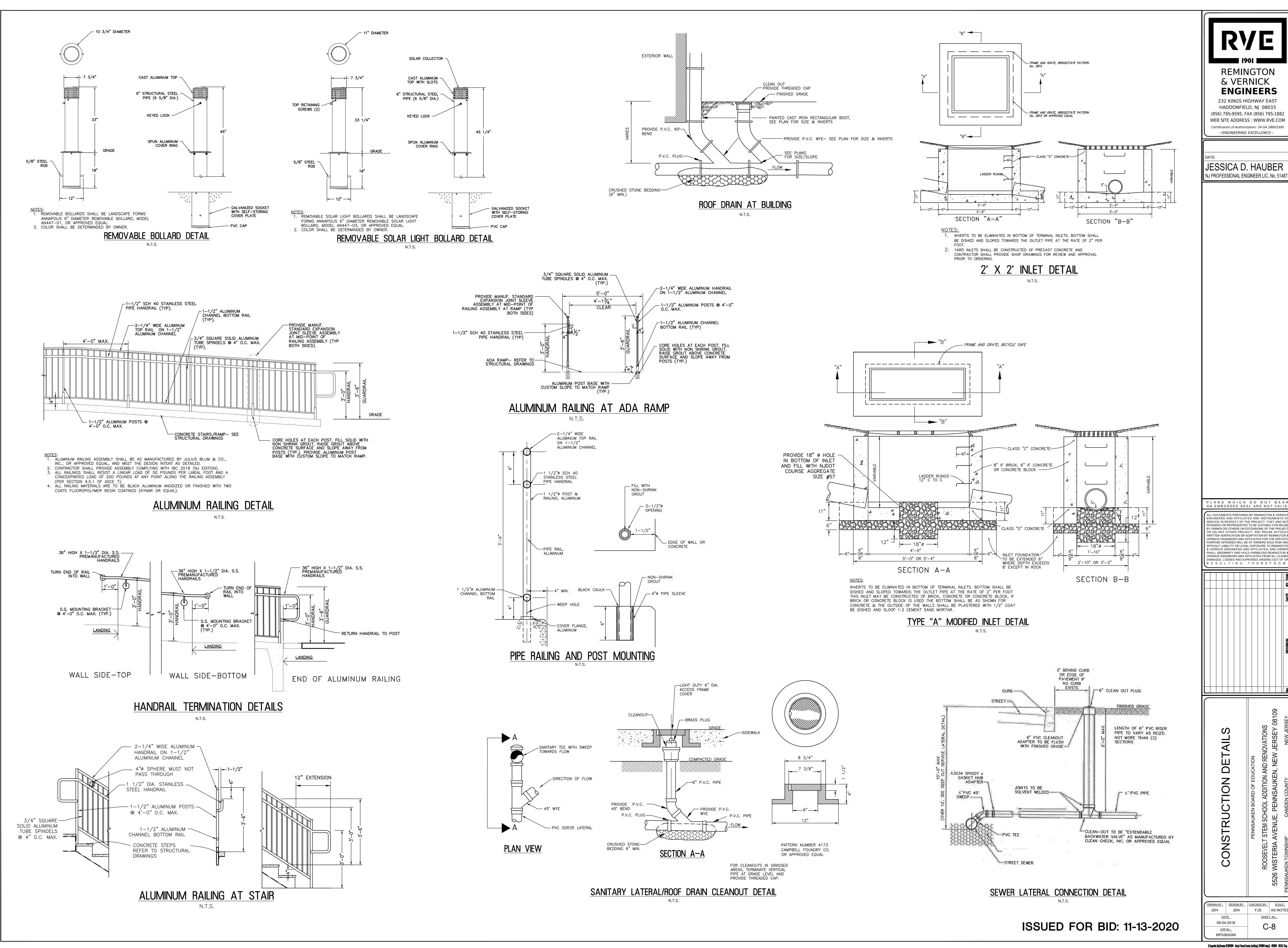


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DRAWN BY: DESIGN BY: CHECKED BY: SCALE JDH FJS AS NOTED SHEET No.: 09-04-2018

ISSUED FOR BID: 11-13-2020





REMINGTON & VERNICK **ENGINEERS** 232 KINGS HIGHWAY EAST

HADDONFIELD, NJ 08033 (856) 795-9595, FAX (856) 795-1882 WEB SITE ADDRESS: WWW.RVE.COM Certification of Authorization: 24 GA 28003300 ~ENGINEERING EXCELLENCE~

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