

PUBLIC SERVICE ELECTRIC AND GAS COMPANY (GAS) PUBLIC SERVICE ELECTRIC AND GAS COMPANY (ELECTRIC) VERIZON NEW JERSEY INC. (TELEPHONE) COMCAST CABLE COMMUNICATIONS MANAGEMENT, LLC (CABLE)







"CHANGES MADE TO THESE PLANS SINCE SIGNATURE BY THE CONSULTANT MAY BE DETERMINED BY COMPARISON OF THE PLANS FILED AT THE DEPARTMENT WITH THOSE FILED AT THE OFFICE OF THE CONSULTANT."

WSP USA Inc.

CERTIFICATE OF AUTHORIZATION NO. 24GA28029800 - jhi h

JOLLY O. BENITEZ

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE05810100

Township of Lawrence Mercer County New Jersey

PLANS FOR

PRETTY BROOK ROAD - LHT CONNECTOR TRAIL FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

JUNE 2022



TOTAL LENGTH OF PROJECT = 1,791 LIN. FT. OR 0.34 MILES

2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO GOVERN

STATE FEDERAL PROJECT N.J.



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STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS BOOKLET, 2016 AND STANDARD ELECTRICAL DETAILS BOOKLET, 2007 ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

Accepted by

James Parvesse, PE, CME Lawrence Municipal Engineer

	SEQUENCE NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS - BUILT QUANTITY	DIS	TRIB	BUTION:	PLAN SHEET	QUA	NTI	ΓY	
	1		LS	1						I					
	3	HEAVY DUTY SILT FENCE, ORANGE	LS	2,096	2,096		C-1	1,041	C-2	ı ı 1,055				 	
	4	OIL ONLY EMERGENCY SPILL KIT, TYPE 1 BREAKAWAY BABBICADES		1 20				 		I				 	
_	6	DRUM	UNIT	10		10				 					
hx.tb	7 8	TRAFFIC CONE CONSTRUCTION SIGNS	UNIT SF	20 100		20 100				I					
Φ	9	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	UNIT	1						i 1 1					
	10	CLEARING SITE	LS	1											
	12 13	EXCAVATION, UNCLASSIFIED	CY	824	1 / 2/	824	C-1	1 1 2 9 9	<u> </u>	 125					
	14	COARSE AGGREGATE, SIZE NO. 57, 2" THICK	CY	104	104		C-1	1 71	C-2	1 33				 	
	15 16	ASPHALT-STABILIZED DRAINAGE COURSE, MODIFIED,2'' THICK COARSE AGGREGATE.STORAGE BED 5'' THICK	T CY	214 99	214 99		C-1 C-1	146 17	C-2 C-2	68 82				 	
	17	OPEN-GRADED 9.5 MM FRICTION COURSE, 2" THICK	Т	214	214		C-1	146	C-2	68				 	
	18 19	PREFABRICATED PEDESTRIAN BRIDGE (INC. FOOTINGS AND ABUTMENTS) WOOD RAILING, 42" HIGH	LS LF	1 691	691		C-1	- - - 511	C-2	1 180				I	
	20	SEGMENTAL BLOCK WALL	LF	325	325		C-1	275	C-2	i 50					
	21	NONVEGETATIVE SURFACE, BROKEN STONE, 4" THICK	SY	27	2		C-1 C-2	2 27		1 1				<u> </u>	
unk	23 24	BEAM GUIDE RAIL TANGENT GUIDE BAIL TERMINAL		25	25 1		C-2	25		1 1				 	
щ	25	BEAM GUIDE RAIL ANCHORAGE	UNIT	1	1		C-2	· 1		I				I	
	26 27	REMOVAL OF BEAM GUIDE RAIL REMOVABLE BOLLARDS	LF UNIT	25 4	<u>25</u> 4		C-2 C-1	<u> </u>	C-2	ı ! 3	<u>I I</u>			 	
	28	TREE REMOVAL	LS	1	067			1	<u> </u>	I 1 051				 	
	30	BORROW TOPSOIL	CY	130	301	130	0-1		0-2					 	
	31 32	LANDSCAPING FERTILIZING AND SEEDING, TYPE A-3	LS SY	967	967		C-1	, 716	C-2	251				 	
	33	STRAW MULCHING	SY	967	967		C-1	716	 C-2	¹ 251				 	
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LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY

ESTIMATE-DISTRIBUTION OF QUANTITIES

LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMENT FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

JOLLY O. BENITEZ NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100



	Linear Features	_			Topograp	hical Features		Topographical F
Existing	PROPOSED			Existing	PROPOS	ED	Existing	PROPOSED
W	W	- Water Main (Size)				Inlets (Label Type)	0	• Flare
G	G	- Gas Main (Size)		"ES"	"ES"	Inlets (Type ES)		► Bean
<i>T</i>	T	- Telephone Conduit					Mon.	■ Mon
E	— E — — — — — — — — — — — — — — — — — —	Electric Conduit (Highwa	ay or Utility)	\bigcirc		Manholes (Label Type or Utility)		
CTV	CTV	- Cable TV				Reset (Inlets or Manholes)		TEST PIT NUMBER
(Size & Type)	(SIZE & TYPE)	- Fiber Optic				Reconstructed		Test
(<u>372e & rype)</u> 	= (OVER 30'' - DRAWN TO SIZE)	Sanitary Sewers or Sto	rm Drains			(Inlets or Manholes)		Borin Obse
		- Pavements (Concrete o	r Bituminous)			Cast Iron Extension (Frame or Ring) (Inlet or Manhole)	Boring Number	
		- Shoulders	,			New Manhole Casting, Square Frame, Circular Cover	\otimes	Borir
		- Curbs				R.C. End Section or C.M. Headwall	\bigcirc	Deci
$(F)_{\mathcal{N}}(C)$		- Slopes (Cut & Fill)				Headwalls	*	Ever
5+00	~ 10+00 	- Base Line		_	_		\bigcirc	Bush
		Twp., City, County Lines	3			Headwalls & Aprons	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Hode
Existing R.O.W. Line	PROPOSED R.O.W. LINE	 Bight of Way Lines (Ac 	cass Permitted)	\otimes	•	Water Gate Valves	¥	Swa
Existing R.O.W. & No Access	Line PROP. R.O.W. & NO ACCESS LIN			VV	9	Reset Water Gate Valves	-	
	II	 Right of Way Lines (No 	Access)	\otimes				Double Referenc
		Easements Broporty, Lino		G	•	Gas Gate Valves	EDQ - ESTI TS - TYPIC	MATE AND DISTRIBUTION OF Q
xx	_x_ • • • • • • •	- Fence (Size & Type)			٢	Reset Gas Gate Valves	CL - LEGEN C - CONSTE	D AND GENERAL NOTES
		- Reset Fence		Hyd. A	*	Hydrants	SESC - SOI P - PROFILE	L EROSION AND SEDIMENT CON
		 Beam Guide Rail Beset Beam Guide Bail 			A	Reset Hydrants	T - TIES TCD - TRAF	FIC CONTROL DETAILS
T T		 Noise Walls 		-0-	-	Utility Pole (Type & Number)	TC - TRAFF X - CROSS	IC CONTROL AND STAGING PL SECTIONS
		Wetland Limit Line			TEMP	Temporary Utility Pole	DTL - CONS	TRUCTION DETAILS
		- Silt Fence				Traffic Signal		
		- Heavy Duty Silt Fence		J.B.	J.B.	Junction Box		
Ditch		Ditches		Ē	Ē	Fiber Ontic Junction Box		
				J.B. & Light	■			
		Railroad Tracks			-	Junction Box Foundation		
	~~~~	· Tree Line		q	Ø	Signs		
				Σ	T	Vertical Panels		
	ABB	REVIATIONS USE	D IN THIS CONTRA	<u>CT</u>			<u>GENERA</u>	<u>L NOTES:</u>
AH., BK. AHEAI AUX. AUXIL	D, BACK ARY	J.B. JUN	CTION BOX	R BCCP	R.C.C.P.	ADIUS FINFORCED CONCRETE CULVERT PIPE		
φ, B.L. BASEL	INE	L.O.D. LIMI	T OF DISTURBANCE	RCP, F	R.C.P. R	EINFORCED CONCRETE PIPE		
B.M. BENCH B.G.R.A. BEAM	I MARK GUIDE RAIL ANCHORAGE	L.O.E. LIMI L.O.P. LIMI	T OF EXCAVATION T OF PAVEMENT (PAVING)	RMC, I RNMC	R.M.C. R ; R.N.M.C. R	IGID METALLIC CONDUIT IGID NON-METALLIC CONDUIT		
BIT., BITUM. BITUM	INOUS	L.O.M. LIMI	T OF MILLING	ROW,	R.O.W. R	IGHT OF WAY		
BLDG. BUILD ©, C.L. CENTE	NG ERLINE	M.B. MAII M.P. MILE	BOX POST	R.R. RTE.,	RT. R	AILROAD OUTE		
C.I.P. CAST	IRON PIPE	MAX. MAX	IMUM	SAN.	S	ANITARY		
C.M.P. CORR	JGATED METAL PIPE	M.E.C. MEE	T EXISTING CURB	SC	S			
C.R. COUN	TY ROUTE	M.E.P. MEE MH MAN	HOLE	S.H.D. SHLD.	. S	HOULDER		
C.T. CURB	TRANSITION	MIN. MINI	MUM	<b>€</b> , S.L.	. S	URVEY LINE		
CULV. CULVE D. DIA. DIAME	ERT TER	MTD MAN	IUFACTURED TREATMENT DEVICE BER	S.O.D. <u>S</u> TV	. S	UBBASE OUTLET DRAIN TORY		
D.C. DEPRE	ESSED CURB	N.T.S. NOT	TO SCALE	SW, S	DWK. S	IDEWALK		
DE DITCH		N.V.S. NON	VEGETATIVE SURFACE	1AT, TA	N T			
DH DRILL	HULE WAY	PAV'T. PAV PERF PEP	EMENT FORATED	T.B.A. T R R	. Т . т	O BE REMOVED		
E.B., W.B., N.B., S.B. EASTE	BOUND, WESTBOUND	P.G.L. PRO	FILE GRADE LINE	TEL.	т	ELEPHONE		
NORTI		!, P.L. PRO	PERTY LINE, PROFILE LINE	TEMP.	. т			
EL., FLFV FLFV	OF PAVEMENT		KER KAYLON MASONRY NAIL	Т.G.R. тнк	Т ТН. Т	ANGENT GUIDE KAIL TERMINAL HICK		
EXIST. EXIST	NG	POL, P.O.L. POIN	IT ON LINE	TYP.	T	YPICAL		
F.G.R.T. FLARE	D GUIDE RAIL TERMINAL	POT, P.O.T. POIN	IT ON TANGENT	U.D.	U			
FM FORCI	- MAIN	PRC. P.R.C. POIN	IT OF REVERSE CURVE	UP. U.	.P. U	TILITY POLE		

				AH., BK.	AHEAD, BACK	J.B.	JUNCTION BOX
				AUX.		LT., RT.	LEFT, RIGHT
				φ, Β.L.	BASELINE	L.O.D.	LIMIT OF DISTURBA
				B.M.	BENCH MARK	L.O.E.	LIMIT OF EXCAVAT
			4	B.G.R.A.	BEAM GUIDE RAIL ANCHORAGE	L.O.P.	LIMIT OF PAVEMEN
				BIT., BITUM.	BITUMINOUS	L.O.M.	LIMIT OF MILLING
				BLDG.	BUILDING	M.B.	MAILBOX
3				ዊ, C.L.	CENTERLINE	M.P.	MILE POST
<u></u>				C.I.P.	CAST IRON PIPE	MAX.	MAXIMUM
8				C.M.P.	CORRUGATED METAL PIPE	M.E.C.	MEET EXISTING CU
립				CONC.	CONCRETE	M.E.P.	MEET EXISTING PA
Å				C.R.	COUNTY ROUTE	MH	MANHOLE
Ę				C.T.	CURB TRANSITION	MIN.	MINIMUM
lad				CULV.	CULVERT	MTD	MANUFACTURED TR
5				D, DIA.	DIAMETER	NO.	NUMBER
Us		dan	- Dr	D.C.	DEPRESSED CURB	N.T.S.	NOT TO SCALE
		0.10		DE	DITCH EXCAVATION	N.V.S.	NON VEGETATIVE S
				DH	DRILL HOLE	PAV'T.	PAVEMENT
		N A		DWY	DRIVEWAY	PERF.	PERFORATED
		) Xo		E.B., W.B., N.B., S.B.	EASTBOUND, WESTBOUND	P.G.L.	PROFILE GRADE LIN
H		<u>ام</u>	ā		NORTHBOUND, SOUTHBOUND	!, P.L.	PROPERTY LINE, PR
		l≩	2	E.O.P.	EDGE OF PAVEMENT	РК	PARKER KAYLON M
	58	Prei		EL., ELEV.	ELEVATION	POC, P.O.C.	POINT ON CURVE
	8		<u> </u>	EXIST.	EXISTING	POL, P.O.L.	POINT ON LINE
	52	13	-	F.G.R.T.	FLARED GUIDE RAIL TERMINAL	POT, P.O.T.	POINT ON TANGEN
	-20		-	FM	FORCE MAIN	PRC, P.R.C.	POINT OF REVERSE
		234 234		GR.	GRATE	PROP.	PROPOSED
un l		Y-12	2	HT.	HEIGHT	PT, P.T.	POINT OF TANGENO
e H			-	H.W.	HEADWALL	PVC, P.V.C.	POLYVINYL CHLORI
-  K	비비	피문	2	HYD.	HYDRANT		POINT OF VERTICA
		al z	2	INV.	INVERT	PVI, P.V.I.	POINT OF VERTICA
기照	i ۲	1000	2	IP	IRON PIN	PVT, P.V.T.	POINT OF VERTICA
	ובן	Έlű				- ,	
1	I I .						

## STANDARD LEGEND

CORV

NCY RIDE PIPE, AL CURVATURE

AL INTERSECTION AL TANGENCY, PAVEMENT VAR.

WM

W.C.V.C.

X-SECT

VARIABLE, VARIES WHITE CONCRETE VERTICAL CURB WATER METER CROSS SECTION

	N.J.
ical Features	Miscellaneous Symbols
Flared Guide Rail Terminal Beam Guide Rail Anchorages Tangent Guide Rail Terminal Monuments ROW Monument (ROW Control Points)	Full Depth Pavement Construction (Trail)  Full Depth Pavement Construction (Trail)  Removal of Concrete Base Course & Concrete Surface Courses  Rip Rap
Test Pit Boring with Ground Water	
Observation Well Borings (Boring Number)	
Decidous Tree (Size, Kind)	
Evergreens	
Bush Hedges Swamp	
erence Codes	
ON OF QUANTITIES - ROADWAY	
S ENT CONTROL	
GING PLANS	
	N.J. PLANE COORDINATE SYSTEM (NAD 83)
	North Arrow To Be Used On Standard Construction Sheets Where Bearings Refer To N. J. Plane Coordinate System
	CL-1
	LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY
	LEGEND AND GENERAL NOTES
	LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMENT FROM PROVINCE LINE ROAD TO CLEVELAND ROAD
	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
	JOLLY O. BENITEZ NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100



TO BE CONSTRUCTED	CONTRACT QUANTITY
TOPSOIL SPREADING 5" THICK	716 S.Y.
FERTILIZING AND SEEDING, TYPE A-3	716 S.Y.
STRAW MULCHING	716 S.Y.
HEAVY DUTY SILT FENCE, ORANGE	1041 L.F.
OPEN-GRADED 9.5 MM FRICTION COURSE, 2" THICK	146 TON
ASPHALT-STABILIZED DRAINAGE COURSE, MODIFIED, 2" THICK	146 TON
COURSE AGGREGATE, SIZE NO. 57, 2" THICK	71 C.Y.
COURSE AGGREGATE STORAGE BED, 5" THICK	17 C.Y.
GEOTEXTILE	1299 S.Y.
REMOVABLE BOLLARD	1 UNIT
SEGMENTAL BLOCK WALL	275 L.F.
DRIVEWAY REPAIR	2 UNIT
WOOD RAILING, 42" HIGH	511 L.F.

![](_page_5_Figure_0.jpeg)

L TO BE CON
TOPSOILING SPREADING, 5" THICK
FERTILIZING AND SEEDING, TYPE
STRAW MULCHING
HEAVY DUTY SILT FENCE, ORANG
OPEN-GRADED 9.5 MM FRICTION C
ASPHALT-STABILIZED DRAINAGE C
COURSE AGGREGATE, SIZE NO. 57,
COURSE AGGREGATE STORAGE B
GEOTEXTILE
REMOVABLE BOLLARD
SEGMENTAL BLOCK WALL
WOOD RAILING, 42" HIGH
NONVEGETATIVE SURFACE, BROKE
BEAM GUIDE RAIL
TANGENT GUIDE RAIL TERMINAL
BEAM GUIDE RAIL ANCHORAGE
REMOVAL OF BEAM GUIDE RAIL

<u>MERCER COUNTY SCD'S</u> <u>PERMANENT VEGETATIVE COVEF</u>	REQUIREMENTS FOR FOR SOIL STABILIZATION
IN ACCORDANCE WITH THE NJ STANDARDS FOR SOIL	EROSION AND SEDIMENT CONTROL, J
L STRIPPING AND STOCKPILING	
FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.	1) ONE BALE OF HAY 2) 1,500 GALLON TAN
A 6-INCH STRIPPING DEPTH IS TYPICAL, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL STRUCTURE OR PRE-EXISTING USE	PLEASE NOTE: THE ( CONTRACTOR, THE T
STOCKPILES SHOULD BE LOCATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE	NUTRIENTS, MULCH A APPLICATION RATES BEOURED WHEN A I
CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN AND BE CONSTRUCTED IN ACCORDANCE WITH THE TOPSOIL STOCKPILE DETAIL.	ESTABLISHMENT OF APPLICATION RATES
STOCKPILING OVERNIGHT IS NOT PERMITTED.	DISTRICT. THESE RAT
REPARATION	ESTABLISHING PERM/ VEGETATIVE COVER
INSTALL EROSION CONTROL MEASURES AND FACILITIES SUCH AS SILT FENCE, DIVERSIONS, SEDIMENT BASINS, AND CHANNEL STABILIZATION.	6. TEMPORARY SEEDING MIXES
GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, TACKING, AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING, 19-1.	MIX: EARLY SPRING/L 100% PERENNIAL RY RATE: 100 LBS/ACRE
D PREPARATION	MIX: LATE FALL
	100% CEREAL RYE RATE: 112 LBS/ACRE
PH: 6.0 TO 8.0 ORGANIC MATTER CONTENT: 2.75% MIN.	MIX: MID-SUMMER
NITRATE NZ: DU LBS/ACRE (DU% WATER INSOLUBLE) PHOSPHOROUS: 100 LBS/ACRE POTASSIUM: 50 LBS/ACRE	40% PEARL MILLET 20% WEEPING LOV 40% MILLET (CERM
THE CONTRACTOR SHOULD BE AWARE OF THE POSSIBILITY, DEPENDING UPON	RATE: 100 LBS/ACRE
AN OFF-SITE SOURCE.	7. RECOMMENDED PERMANENT
DAMAGING SOIL STRUCTURE.	OPTIMUM SEEDING DAT
APPLY A UNIFORM 5 INCHES (UNSETTLED) OF TOPSOIL ON ALL DISTURBED AREAS. 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	MERCER CO. SCD PF
PH OF 5.0 OR MORE AND THE TOP 5 INCHES SHALL CONFORM TO THE TOPSOIL STANDARD AND SHALL BE LIMED ACCORDING TO THE SPECIFICATIONS.	(NJDOT SEED MIX T 60% TURF TYPE T/ 20% CHEWING OB
IF THE TOPSOIL BECOMES COMPACTED, THE SURFACE MUST BE SCARIFIED 6" TO 12" TO PROVIDE GOOD SEED-TO-SOIL BOND.	10% PERENNIAL RYE 10% KENTUCKY BLI
APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY BUTGERS UNIVERSITY	<u>MIX: LAWNS - LOW N</u> 80% TALL FESCUE
COOPERATIVE EXTENSION. IF SOIL TESTING IS NOT FEASIBLE, FERTILIZER (10-20-10) WITH 50% WATER INSOLUBLE NITROGEN SHOULD BE APPLIED AT THE TYPICAL	10% PERENNIAL RYI MIX'LAWNS - QUALIT
ARE OF 500 EBS/ACRE OF HEBS/1,000 SQUARE FEET.	20% PERENNIAL RY 30% CHEWINGS FE
(PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK - TRENTON FALL LINE) AS FOLLOWS:	35% CREEPING RED 15% KENTUCKY BLI
SOIL TEXTURE TONS/ACRE LBS/1,000 SQ. FT. CLAY, CLAY LOAM, HIGH ORGANIC 3 135	MIX: SHADE 65% HARD, CHEWIN
SANDY LOAM, LOAM, SILT LOAM 2 90 LOAMY SAND, SAND 1 45	20% KENTUCKY BL 15% PERENNIAL RYF
WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES. THE FINAL HARROWING OR DISC OPERATION SHOULD BE ON THE GENERAL	40% FLAT PEA (W
REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY	25% PERENNIAL RY 25% TALL FESCUE 10% REDTOP
TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.	(*INCLUDE AT LEAS #EXCLUDE K-31)
G	+ USE THE ABOVE FOR A REGULAR M
SELECT A SEED MIXTURE APPROVED BY THE MERCER COUNTY SCD.	ROUGH BLUEGRASS FLAT PEA.
APPLY SEED UNIFORMLY BY HAND, CYCLONES, DROP SEEDER, DRILL CULTIPACKER, OR HYDROSEEDER* THE LATTER MAY BE JUSTIFIABLE FOR LARGE	CONSERVATION PLANTING
STEEP AREAS WHERE CONVENTIONAL APPLICATIONS ARE NOT FEASIBLE. HYDROSEEDING SHALL BE A TWO-STEP PROCESS: MULCH SHALL NOT BE MIXED	25% SWITCH GRAS
TO SOIL CONTACT. THE HYDROMULCH IS THEN SPRAYED OVER THE SEEDING. FOR OPTIMUM RESULTS, THE SEED SHOULD BE INCORPORATED INTO THE SOIL	25% VIRGINIA WILD 25% PURPLE TOP 25% ANNUAL RYE
TO A DEPTH OF $\frac{1}{4}$ " TO $\frac{1}{2}$ " INCH DEPENDING UPON SPECIES. *THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM	MIX: RECLAMATION, EI
SEEDING DATES AS LISTED IN THE STANDARDS.	40% SWITCHGRASS 25% SERECIA LESF 15% TALL FESCUE
AFTER SEEDING, THE SOIL SHOULD BE PACKED WITH A CORRUGATED ROLLER. WHEN PERFORMED ON THE CONTOUR, ROLLING WILL MINIMIZE SHEET EROSION AND MAXIMIZE WATER CONSERVATION.	15% DEERTONGUE 5% BIRDSFOOT TRI
NG	MIX: WILDLIFE HABITA
UNROTTED STRAW, HAY FREE OF SEEDS OR SALT HAY IS REQUIRED ON ALL	40% SWITCHGRASS 30% CANADA BLUE
SEEDING AT A RATE OF 1.5 TO 2 TONS/ACRE, (70 TO 90 LBS./1,000 SQUARE FEET), EXCEPT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER THEN THE BATE OF APPLICATION IS 3 TONS BED ACRE	10% OKCHARDGRAS 10% WHITE CLOVER 5% JAPANESE MILL
MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT	
TO MINIMIZE LOSS DUE TO WIND OR WATER. THIS MAY BE DONE ACCORDING TO THE FOLLOWING METHODS:	72% HARD OR SHE 22% NORTHEAST/M
1. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 LBS/ACRE APPLIED BY THE HYDROSEEDER. USE IS LIMITED TO ONLY THE OPTIMUM	6% BIRDSFOOT TRE
SEEDING SEASON. 2. SYNTHETIC OR ORGANIC BINDERS	MIX: WATERWAYS & 40% SWITCHGRASS
3. PEG AND TWINE, MULCH NETTING, AND MECHANICAL CRIMPING.	30% CANADA BLUE 15% ROUGH BLUEG
4. CRIMPING REQUIRES A HIGHER MULCH RATE (3 TONS/ACRE).	10% BIRDSFOOT TR 4% JAPANESE MILL
	LEUMINIEURI LIGATION STOLEN AND AND PROVINCE AND

### OL, JUNE 2008

HAY WEIGHS 40-60 LBS DEPENDING ON HOW IT WAS BALED

TANK OF HYDROMULCH COVERS .5 ACRES.

HE QUALITY OF PERMANENT VEGETATION RESTS WITH THE E TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING H AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED TES IN TABLE 4-3 OF THE STANDARDS ARE A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL OF PERMANENT VEGETATION. (UP TO 50% REDUCTION IS TES MAY BE USED WHEN PERMANENT VEGETATION IS IOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE RATES APPLY TO ALL METHODS OF SEEDING.

ERMANENT VEGETATION MEANS 80% EVENLY DISTRIBUTED VER OF THE SEEDED SPECIES AND MOWED ONCE.)

IIXES

NG/LATE SUMMER TO EARLY FALL _ RYEGRASS

**YE** ACRE

LOVEGRASS ERMAN OR HUNGARIAN) ACRE

### ENT SEEDING MIXES

DATES: MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 15 BS/ACRE

PREFERRED MIX FOR LAWNS AND DETENTION BASINS X TYPE A-3) E TALL FESCUE*#

OR HARD FESCUE RYEGRASS

BLUEGRASS

W MAINTENANCE, DROUGHTY & HEAVY TRAFFIC CUE TURF TYPE (LOW GROWING VARIETIES)*# RYEGRASS (LOW GROWING VARIETIES)

ALITY SUN AND SHADE RYEGRASS FESCUE

RED FESCUE BLUEGRASS

WINGS, OR CREEPING RED FESCUE* BLUEGRASS

RYEGRASS

NTION BASIN BOTTOMS

(WITH PROPER INOCULANT) RYEGRASS

CUE OR STRONG CREEPING RED FESCUE

LEAST THREE VARIETIES IN MIX)

BOVE MIX FOR INFREQUENT MOWING. R MOWING REGIME, SUBSTITUTE ASS AND/OR TALL FESCUE FOR THE

NTINGS

TION AREAS (SEED MIX TYPE S) RATE: 100 LBS/ACRE

RASS WILDRYE OΡ YE

N, EROSION CONTROL & ACID SOILS - Rate: 150 lbs/acre

ASS LESPEDEZA OR FLAT PEA

CUE OR CREEPING RED FESCUE

TREFOIL

BITAT ENHANCEMENT RATE: 100 LBS/ACRE

ASS OR COASTAL PANICGRASS BLUEGRASS OR SMOOTH BROMEGRASS

BASS DVER

MILLET TREFOIL

MEADOW RATE: 50 LBS/ACRE

SHEEPS FESCUE T/MID-ATLANTIC WILDFLOWER MIXTURE TREFOIL

& WET BASINS* RATE: 100 LBS/ACRE

ASS BLUEGRASS OR SMOOTH BROMEGRASS UEGRASS (SHADE) OR TALL FESCUE (OPEN) OVER OR LADINO WHITE CLOVER TREFOIL OR CREEPING FOXTAIL MILLET

BE MOWED LESS THAN 6 INCHES)

### PROPOSED CONSTRUCTION SEQUENCE

-1 DAY

-5 DAYS

-5 DAYS

-5 DAYS

-20 DAYS

-10 DAYS

-2 DAYS

-1 DAY

-2 DAYS

-2 DAYS

- 1. NOTIFY MERCER COUNTY ENGINEERING DEPARTMENT ONE WEEK PRIOR TO START OF CONSTRUCTION.
- 2. SET PROPER EROSION AND SEDIMENT CONTROL MEASURES.
- 3. CLEAR SITE AND INSTALL MAINTENANCE OF TRAFFIC DEVICES.
- 4. EXCAVATE FOR PAVEMENT BOX AND SET PROFILE GRADE.
- 5. CONSTRUCT LANDSCAPE BLOCK RETAINING WALL.
- 6. CONSTRUCT RETAINING WALL AND BRIDGE ABUTMENTS.
- 7. CONSTRUCT PAVEMENT BASE COURSES.
- 8. INSTALL PREFABRICATED PEDESTRIAN BRIDGE.
- 9. INSTALL GUIDE RAIL.
- 10. CONSTRUCT FINAL PAVEMENT COURSE
- 11. INSTALL WOOD RAIL FENCE.
- 12. LANDSCAPING TOPSOILING, SEEDING AND STRAW MULCHING -4 DAYS AND PLANTINGS.
- 13. REMOVE SOIL EROSION AND SEDIMENT CONTROL DEVICES. -1 DAY

### SOIL EROSION AND SEDIMENT CONTROL NOTES

THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING LAND DISTURBANCE ACTIVITY. NOTICE MAY BE MAILED, FAXED OR EMAILED TO: MCSCD, 590 HUGHES DRIVE, HAMILTON SQUARE, NJ 08690 PHONE: 609-586-9603 FAX: 609-586-1117 EMAIL: PAULS1MERCER@AOL.COM

- IF APPLICABLE TO THIS PROJECT, THE OWNER SHOULD BE AWARE OF HIS OR HER OBLIGATION 2. TO FILE FOR A NJPDES CONSTRUCTION ACTIVITY STORMWATER 5G3 PERMIT (NJG0088323) VIA THE NJDEP ONLINE PERMITTING SYSTEM (WWW.NJ.GOV/DEP/ONLINE) AND TO MAINTAIN THE ASSOCIATED BEST MANAGEMENT PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN SELF-INSPECTION LOGBOOK ONSITE AT ALL TIMES. THIS PERMIT MUST BE FILED PRIOR TO THE START OF SOIL DISTURBANCE. THE ONLINE APPLICATION PROCESS WILL REQUIRE ENTRY OF AN SCD CERTIFICATION CODE, WHICH IS PROVIDED BY THE SOIL CONSERVATION DISTRICT UPON CERTIFICATION OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
- THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN 3. OWNERSHIP.
- 4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, INCLUDING AN INCREASE IN THE LIMIT OF DISTURBANCE. WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.
- 5. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AS OUTLINED WITHIN THE SEQUENCE OF CONSTRUCTION ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION 7. AND SEDIMENT CONTROL IN NJ. IF LANGUAGE CONTAINED WITHIN ANY OTHER PERMIT FOR THIS PROJECT IS MORE RESTRICTIVE THAN (BUT NOT CONTRADICTORY TO) WHAT IS CONTAINED WITHIN THESE NOTES OR ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, THEN THE MORE RESTRICTIVE PERMIT REQUIREMENTS SHALL BE FOLLOWED.
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A 8.  $1\frac{1}{2}$ " TO  $2\frac{1}{2}$ " CLEAN STONE TRACKING PAD AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE, WHETHER IDENTIFIED ON THE CERTIFIED PLAN OR NOT. THE WIDTH SHALL SPAN THE FULL WIDTH OF EGRESS, AND LENGTH SHALL BE 50 FT. OR MORE DEPENDING ON SITE CONDITIONS AND AS REQUIRED BY THE STANDARD. THIS SHALL INCLUDE INDIVIDUAL LOT ACCESS POINTS WITHIN RESIDENTIAL SUBDIVISIONS. IF THE EGRESS IS TO A COUNTY ROAD, THEN A 20 FT. LONG PAVED TRANSITION SHALL BE PROVIDED BETWEEN THE EDGE OF PAVEMENT AND THE STONE ACCESS PAD.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING, PROVIDED THAT ALL OTHER REQUIREMENTS RELATED TO DETENTION BASINS, SWALES AND THE SEQUENCE OF CONSTRUCTION HAVE BEEN MET.
- 10. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND NOT SUBJECT TO CONSTRUCTION ACTIVITY WILL IMMEDIATELY RECEIVE TEMPORARY STABILIZATION. IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER, OR IF THE AREA IS NOT TOPSOILED, THEN THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS, SLOPED AREAS IN EXCESS OF 3H:1V SHALL BE PROVIDED WITH EROSION CONTROL BLANKETS CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES, ROADWAY EMBANKMENTS, ENVIRONMENTALLY SENSITIVE AREAS) WILL RECEIVE TEMPORARY STABILIZATION IMMEDIATELY AFTER INITIAL DISTURBANCE OR ROUGH GRADING.
- 11. ANY STEEP SLOPES (I.E. SLOPES GREATER THAN 3:1) RECEIVING PIPELINE OR UTILITY INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS.
- PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN 12 (10) DAYS AFTER FINAL GRADING AND TOPSOILING, ALL AGRONOMIC REQUIREMENTS CONTAINED WITHIN THE STANDARDS AND ON THE CERTIFIED PLAN SHALL BE EMPLOYED MULCH WITH BINDER, IN ACCORDANCE WITH THE STANDARDS, SHALL BE USED ON ALL SEEDED AREAS. SAVE ALL TAGS AND/OR BAGS USED FOR SEED, LIME AND FERTILIZER, AND PROVIDE THEM TO THE DISTRICT INSPECTOR TO VERIFY THAT MIXTURES AND RATES MEET THE STANDARDS.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS 13. GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, THEN NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

N.J.

- DURING THE COURSE OF CONSTRUCTION, SOIL COMPACTION MAY OCCUR WITHIN HAUL ROUTES, STAGING AREAS AND OTHER PROJECT AREAS. IN ACCORDANCE WITH THE STANDARD FOR FOPSOILING, COMPACTED SURFACES SHOULD BE SCARIFIED 6" TO 12" IMMEDIATELY PRIOR TO TOPSOIL APPLICATION. THIS WILL HELP ENSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
- PRIOR TO SEEDING, TOPSOIL SHALL BE WORKED TO PREPARE A PROPER SEEDBED. THIS SHALL INCLUDE RAKING OF THE TOPSOIL AND REMOVAL OF DEBRIS AND STONES, ALONG WITH OTHER REQUIREMENTS OF THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY 16 SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE BURIED WITH LIMESTONE IN ACCORDANCE WITH THE STANDARD AND BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO TOPSOIL APPLICATION AND SEEDBED PREPARATION. IF THE AREA IS TO RECEIVE TREE OR SHRUB PLANTINGS, OR IS LOCATED ON A SLOPE, THEN THE AREA SHALL BE COVERED WITH A MINIMUM OF 24" OF SOIL HAVING A PH OF 5 OR MORE.
- 17. MULCHING TO THE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONAL ROC'S ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING. PERMANENT STABILIZATION MUST THEN BE COMPLETED DURING THE OPTIMUM SEEDING SEASON IMMEDIATELY FOLLOWING THE CONDITIONAL ROC, OR THE COMPLETION OF WORK IN A GIVEN AREA.
- HYDROSEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED-TO-SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF THE SEEDING OPERATION, HYDROMULCH SHOULD BE APPLIED AT A MINIMUM RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS. THE USE OF HYDROMULCH ON SLOPED AREAS IS DISCOURAGED.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF THE CONSTRUCTION PROJECT. ALL SEDIMENT WASHED, DROPPED, TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE IMMEDIATELY REMOVED.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT 20. PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION, AND FOR EMPLOYING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AT THE REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE 21 DRAINAGE SYSTEM BECOMING OPERATIONAL.
- ALL DETENTION / RETENTION BASINS MUST BE FULLY CONSTRUCTED (INCLUSIVE OF ALL 22. STRUCTURAL COMPONENTS AND LINERS) AND PERMANENTLY STABILIZED PRIOR TO PAVING OR PRIOR TO THE ADDITION OF ANY IMPERVIOUS SURFACES PERMANENT STABILIZATION INCLUDES, BUT MAY NOT BE LIMITED TO: TOPSOIL, SEED, STRAW MULCH AND BINDERS OR EROSION CONTROL BLANKETS ON ALL SEEDING, ALL AGRONOMIC REQUIREMENTS AS SPECIFIED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, INSTALLATION OF THE OUTFLOW CONTROL STRUCTURES AND DISCHARGE STORM DRAINAGE PIPING, LOW FLOW CHANNELS, CONDUIT OUTLET PROTECTION, EMERGENCY SPILLWAYS, AND LAP RING PROTECTION.
- THE RIDING SURFACE OF ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE 3/4" CLEAN 23. STONE OR BASE PAVEMENT UNTIL SUCH TIME AS FINAL PAVEMENT HAS BEEN INSTALLED. TEMPORARY SOIL RIDING SURFACES ARE PROHIBITED.
- ALL CONSTRUCTION DEWATERING (TRENCHES, EXCAVATIONS, ETC.) MUST BE DONE THROUGH AN 24. INLET OR OUTLET FILTER IN ACCORDANCE WITH THE STANDARD FOR DEWATERING OR AS DEPICTED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. DISCHARGE LOCATIONS FOR THE DEWATERING OPERATION MUST CONTAIN PERENNIAL VEGETATION OR SIMILAR STABLE SURFACE
- ALL SWALES OR CHANNELS THAT WILL RECEIVE RUNOFF FROM PAVED SURFACES MUST BE 25. PERMANENTLY STABILIZED PRIOR TO THE INSTALLATION OF PAVEMENT. IF THE SEASON PROHIBITS THE ESTABLISHMENT OF PERMANENT STABILIZATION, THE SWALES OR CHANNELS MAY BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE STANDARDS.
- NJSA 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY BE ISSUED BY THE MUNICIPALITY BEFORE THE PROVISIONS OF THE CERTIFIED SOILEROSION AND SEDIMENT CONTROL PLAN HAVE BEEN SATISFIED. THEREFORE, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS MUST BE COMPLETED BEFORE THE DISTRICT ISSUES A REPORT OF COMPLIANCE OR CONDITIONAL REPORT OF COMPLIANCE, WHICH MUST BE FORWARDED TO THE MUNICIPALITY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY, RESPECTIVELY.

ADDRESS: MERCER COUNTY SOIL CONSERVATION DISTRICT 590 HUGHES DRIVE HAMILTON SQUARE, NJ 08690 (609) 586-9603

TOTAL PROTECT DISTURBANCE AREA 0.83 AC. (36,038 S.F.±)

SESC-1

LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY

## SOIL EROSION AND SEDIMENT CONTROL NOTES

LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMENT FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

WSP USA Inc.

ERTIFICATION OF AUTHORIZATION NO. 24GA28029800

The h

JOLLY O. BENITEZ NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100

![](_page_7_Figure_0.jpeg)

	SESC-2 SESC-2
LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JE	RSEY
SOIL EROSION AND SEDIMENT CONTROL DETAILS	
AWRENCE HOPEWELL TRAIL - PRETTY BROOK SE FROM PROVINCE LINE ROAD TO CLEVELAND RO	GMENT DAD
IOLLY O. BENITEZ	$\bigcirc$

		MEET PRO PAVEMEN	<u>2VINCE LIΝ</u> Γ, +00	<u>NE ROAD</u>
		F	ROPOSED	FINISHED
	175 —		— Existing	Ground Line
	170 —		1.50%	
	165 —			
	160 —			
	155 —			
	150 —			
	145 —			
	140 —			
	135 —			
	130 —			
	125 —			
	120 —	6	<b>JSED</b>	
IPL03_BW	115 —	Exist.in	D-COA-C	
100prt01\PR	02 891 110	<b>168.70</b> 169.52	169.45 169.98	170.20
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WSP USA OPERATO PLOT DA PENTABLE DESIGN FI				

![](_page_8_Figure_1.jpeg)

TRAIL PROFILE

1

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	- 165					
	- 160					
	- 155					
	- 150					
	- 145					
	- 140					
	- 140					
	- 135					
	100					
	- 130					
	- 125					
	- 120					
	- 115					
:7.39	5.04		<u>NOTE:</u> EXISTING DRIVEWAY GRADES TO BE	MAINTAINE	ED.	
12	110				Г	P-1
ıх+	-00					
			LAWRENCE TOWNSHIP, MERCER CC	JUNIT, N		
			PROFILE	S		
			LAWRENCE HOPEWELL TRAIL - PRET	TY BRO	OK SEG	GMENT
VERT.		SCALE IN FEET		CLEVELA	ND RO	AD
	5'	0 5' 10' SCALE IN FEET	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800		/	$\frown$
HORIZ.	50'	0 50' 100'	JOLLY O. BENITEZ NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100		$\left( - \right)$	

WSP USA In	c.		
OPERATOR	Runk	QUEUE	\\Uslrv100prt01\PRIPL03_BW
PLOT DATE	30-JUN-2022 18:59		
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![](_page_9_Figure_1.jpeg)

![](_page_10_Figure_0.jpeg)

ALIGNMENT DATA					
LOCAT	ION	COORE	NATES		
POINT STATION		NORTHING	EASTING		
PROPOSE	D LAWRENC	E HOPEWELL TR	AIL BASELINE		
PC	10+00.00	554710.6696	433041.6504		
PRC	10+22.34	554708.9495	433019.4188		
PT	10+61.39	554702.7413	432981.1228		
PC	10+91.57	554692.2240	432952.8327		
PRC	11+18.42	554679.3565	432929.3533		
PRC	11+63.66	554661.5028	432888.2131		
PT	11+85.18	554655.3419	432867.6349		
PC	13+01.16	554610.3349	432760.7393		
PRC	13+24.33	554598.9632	432740.6150		
PT	13+47.13	554587.7342	432720.8280		
PC	16+69.53	554461.5396	432424.1466		
PRC	16+79.54	554458.0904	432414.7603		
PT	16+89.54	554454.6412	432405.3739		
PC	22+48.82	554235.7328	431890.7242		
PRC	22+58.82	554231.3634	431881.7293		
PT	22+68.82	554226.9941	431872.7343		
PC	24+46.06	554157.6224	431709.6429		
PRC	24+60.21	554151.1806	431697.0531		
PT	24+74.36	554144.7388	431684.4633		
PC	27+05.76	554054.1656	431471.5274		
PRC	27+38.70	554046.4516	431439.6563		
PRC	27+56.17	554043.6703	431422.4337		
PT	27+88.68	554040.9259	431390.1814		

WSP USA In			
OPERATOR	Runk	QUEUE	\\Usirv100prt01\PRIPL03_BW
PLOT DATE	30-JUN-2022 18:59		
PENTABLE	ehx.tbl		
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ALIGNMENT SCHEMATIC PLAN

TIES						
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POINT	BASELINE STATION	STATION	OFFSET			
PROPOSE	PROPOSED LAWRENCE HOPEWELL TRAIL BASELINE					
PC	10+00.00	1+01.68	50.87			
PRC	10+22.34	1+22.01	41.70			
PT	10+61.39	1+58.58	28.75			
PC	10+91.57	1+88.44	24.38			
PRC	11+18.42	2+15.22	24.39			
PRC	11+63.66	2+59.88	20.29			
PT	11+85. <mark>1</mark> 8	2+80.88	15.81			
PC	13+01.16	3+95.17	10.11			
PRC	13+24.33	4+17.96	13.97			
PT	13+47.13	4+40.38	17.82			
PC	16+69.53	7+64.34	32.10			
PRC	16+79.54	7+74.33	31.55			
PT	16+89.54	7+84.31	31.00			
PC	22+48.82	13+44.03	23.49			
PRC	22+58.82	13+54.02	23.77			
PT	22+68.82	13+64.02	24.05			
PC	24+46.06	15+40.91	22.33			
PRC	24+60.21	15+55.03	23.21			
PT	24+74.36	15+69.14	24.10			
PC	27+05.76	18+00.53	22.21			
PRC	27+38.70	18+32.84	16.57			
PRC	27+56.17	18+49.74	12.25			
PT	27+88.68	18+80.41	1.90			

SURVEY CONTROL	POINTS - GEOGRA	APHIC CO
CONTROL POINT	NORTHING	EASTI
1	554756.0950	433018.
2	554633.1710	432794.
3	554515.6925	432468.
4	554373.7725	432139.
5	554240.7976	431844.
6	554042.2603	431388.

![](_page_10_Figure_9.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_1.jpeg)

	<b>GENERAL NOTES - CONSTRUCTION STAGING:</b>	GENERAL NOTES - TRAFFIC CONTROL:
	<ol> <li>48 HOURS NOTICE SHALL BE GIVEN TO PROPERTY OWNERS BEFORE BEGINNING WORK IN THEIR DRIVEWAY OR ON PROPERTY FRONTAGE. THE CONTRACTOR SHALL PROVIDE EMERGENCY ACCESS TO ALL SITES AT ALL TIMES.</li> </ol>	<ol> <li>ADVANCE WARNING SIGNS, DISTANCE, AND TAPER LE THE DIRECTION OF THE RE, TO ADJUST FOR REDUCE AND VERTICAL CURVATURE OF THE ROADWAY.</li> </ol>
Ā	2. ACCESS TO AND FROM LOCAL STREETS, BUSINESSES, AND PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.	2. THE APPROXIMATE LOCATIONS OF THE ILLUMINATED SHOWN ON THE TRAFFIC CONTROL PLANS. THESE L APPROVED BY THE RE TO ADJUST FOR THE VISIBILI VERTICAL CURVATURE OF THE ROADWAY OR TO POS
JDOT.+	3. MAINTAIN ACCESS TO EXISTING DRIVEWAYS WITHIN THE PROJECT LIMITS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RE. WORK IN OR ACROSS DRIVEWAYS SHOULD BE SCHEDULED TO ALLOW ENTRY EACH EVENING.	ILLUMINATED FLASHING ARROW BOARDS ARE TO BE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAF
Ż	4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROPER DRAINAGE IN ALL AREAS UNDER CONSTRUCTION.	<ul> <li>A ROADS ENTERING THE ROADWAY AFTER THE FIRST A</li> </ul>
	5. THE CONTRACTOR BY HIS MEANS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE HIGH VOLTAGE PROXIMITY ACT AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.	BE PROVIDED WITH AT LEAST ONE SIGN (W20-1F, R MINIMUM.
	6. TOPSOILING AND SEEDING SHALL BE FINALIZED FOR EACH STAGE BEFORE THE CONTRACTOR MOVES ONTO NEXT WORK ZONE AREA, AS DIRECTED BY THE RE.	5. ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AN REFLECTORS WHICH CONFLICT WITH THE PROPOSED BE COVERED, REMOVED OR RELOCATED AS DIRECTED
	<ol> <li>DURING NON-WORKING HOURS, EXCAVATIONS GREATER THAN 2" ADJACENT TO TRAVEL LANES MUST BE BACKFILLED AND PROVIDED WITH 6:1 (MINIMUM) TEMPORARY ESCAPE RAMPS, SEE DETAIL.</li> <li>ALL EXCAVATIONS AND OPEN PITS WITHIN THE TOWNSHIP RIGHT OF WAY ARE</li> </ol>	<ol> <li>MAINTENANCE AND PROTECTION OF TRAFFIC SHALL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES – GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIC MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT NOTED IN THE PLANS AND SPECIFICATIONS.</li> </ol>
ford	TO BE ROPED OFF WITH CAUTION FENCE EVENINGS AND WEEKENDS TO PROTECT AGAINST PEDESTRIANS, BIKES OR OTHERS FROM INJURY.	<ol> <li>CONSTRUCTION SIGN W99-2 (GIVE US A BREAK) SH ADVANCE OF THE PROJECT LIMITS.</li> </ol>
Brels-	9. ALL OPENINGS BEYOND THE ROADWAY SHALL BE BROUGHT TO GRADE WITH COMPACTED BACKFILL AND STABILIZED ACCORDING TO SOIL EROSION AND SEDIMENT CONTROL STANDARDS.	8. A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY THE CLOSED WIDTH SHALL BE LOCATED 100 FEET B
	10. STAGING AREAS ARE NOT TO BE LOCATED IN ENVIRONMENTALLY SENSITIVE AREAS.	<ul> <li>APPROACHING THE ROAD OR LANE CLOSURE AREA.</li> <li>9. THE REQUIRED CONSTRUCTION WARNING SIGNS SHAL CONTRACTOR THROUGHOUT THE ENTIRE CONSTRUCTI SHALL BE REMOVED OR COVERED WITH AN OPAQUE IS NOT APPLICABLE FOR A PARTICULAR STAGE</li> </ul>
		10. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE VEHICLES THROUGHOUT THE WORK SITE WHERE SPAN USE OF LANE CLOSURES. THE PLANS SHALL BE SU ACCORDANCE WITH THE SPECIFICATIONS.
		11. THE USE OF POLICE TRAFFIC DIRECTOR SHALL BE A ENGAGEMENT. AN ALLOWANCE FOR POLICE TRAFFIC
		12. "ON OR ABOUT" SIGNS TO BE ERECTED A MINIMUM
08:15		13. THE CONTRACTOR IS DIRECTED TO NOTIFY THE TOW POLICE, FIRE DEPARTMENT AND RESCUE SQUAD ONE
-2022		14. MAINTAIN ACCESS TO EXISTING DRIVEWAYS WITHIN P
30-JUN		15. SPECIAL SIGNS SHALL HAVE BLACK MESSAGE ON OF RETROFLECTIVE SHEETING FOR VISUAL IMPACT PERFOR REFERENCE IS MADE TO THE PUBLICATION ENTITLED HIGHWAY SIGNS AND PAVEMENT MARKINGS" BY THE ADMINISTRATION FOR LETTER STROKE AND DESIGN A IN A WORD. SPACING BETWEEN WORDS IN A LINE, AND BORDER REQUIREMENTS SHOULD BE DETERMINE PRACTICES
		16. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE P PEDESTRIAN CROSSING LOCATIONS AND TYPE AS SH
		17. TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)5-17( LOCATED 500 FEET AFTER THE FIRST ADVANCE WAF EACH WORK AREA.
		18. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL SIGNS FOR ONE WEEK PRIOR TO CHANGE OF TRAFFI DRIVING PUBLIC INFORMED OF THE NEW TRAFFIC PA
		19. THE CONTRACTOR IS TO PLACE SIGNS SO AS NOT T SIGHT AT ALL INTERSECTIONS AND COMMERCIAL DRI
		20. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INC BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLACED WITHOUT ACTUAL LANE CLOSURES AND SHA UPON REMOVAL OF THE CLOSURES.
		21. CONES MAY BE SUBSTITUTED FOR DRUMS AND INST THE RE.
		22. IF AND WHEN DIRECTED BY THE RE, THE CONTRACT ADDITIONAL TRAFFIC CONTROL SIGNS AND DEVICES /
ц		23. THE TRAFFIC CONTROL SIGNS AND DEVICES SHALL E GOOD CONDITION BY THE CONTRACTOR THROUGHOU PERIOD. SIGN MAINTENANCE AND REPLACEMENT CO INITIAL BID PRICE OF THE SIGN. CONSTRUCTION SIGN COVERED WITH AN OPAQUE MATERIAL WHEN THE ME
cd01.de		24. THE CONTRACTOR IS REQUIRED TO CONTACT THE ON 1-800-272-1000 FOR UNDERGROUND UTILITY MARK
+rf/+		OF SIGNS. 25. THE LAWRENCE TOWNSHIP DEPARTMENT OF PUBLIC
rook		MINIMUM OF 48 HOURS PRIOR TO THE INSTALLATION TOWNSHIP RIGHT OF WAY. THE NOTIFICATION IS TO I WHO WILL INSTALL THE STRIPING.
etty_E		26. PRIOR TO THE DETOUR ROUTE BEING INSTALLED, TH PRECONSTRUCTION MEETING WITH MUNICIPALITY OF F
HT_Pre		
234I_LI		
T:\5		
ں ب		
USA In		

APER LENGTHS MAY BE EXTENDED, AT REDUCED VISIBILITY DUE TO HORIZONTAL

NATED FLASHING ARROW BOARDS ARE THESE LOCATIONS MAY BE MODIFIED AS VISIBILITY DUE TO HORIZONTAL OR TO POSITION AT A SAFER LOCATION. TO BE USED FOR TEMPORARY LANE E TRAFFIC CONTROL PLANS.

TROL SIGNS AND DEVICES SHALL BE IN

FIRST ADVANCE WARNING SIGN SHALL )—1F, ROAD WORK AHEAD) AS A

NGS AND/OR PLOWABLE PAVEMENT POSED TRAFFIC CONTROL PLAN SHALL IRECTED BY THE RE.

SHALL BE IN ACCORDANCE WITH THE ICES – PART 6 'STANDARDS AND AND HIGHWAY CONSTRUCTION GEMENT OPERATION', UNLESS OTHERWISE

EAK) SHALL BE LOCATED 200 FEET IN

AKAWAY BARRICADE AND CENTERED ON FEET BEYOND EACH INTERSECTION

S SHALL BE MAINTAINED BY THE STRUCTION PERIOD. CONSTRUCTION SIGNS PAQUE MATERIAL WHEN THE MESSAGE

R THE SAFE ACCESS OF CONSTRUCTION RE SPACE CONSTRAINTS PREVENT THE BE SUBMITTED TO THE RE IN

L BE APPROVED BY THE RE PRIOR TO RAFFIC DIRECTORS HAS BEEN PROVIDED

NIMUM OF 2 WEEKS PRIOR TO

E TOWNSHIP CLERK, LOCAL MUNICIPAL AD ONE WEEK PRIOR TO THE START OF E IMPLEMENTATION OF LANE CLOSURE.

ON ORANGE WIDE ANGLE PRISMATIC T PERFORMANCE BACKGROUND. NTITLED "STANDARD ALPHABETS FOR BY THE FEDERAL HIGHWAY ESIGN AND SPACING BETWEEN LETTERS LINE, BETWEEN LINES OF A MESSAGE,

ERMINED BY GOOD SIGN-PAINTING MAKE PROVISIONS FOR MAINTAINING AS SHOWN ON THE PLANS OR

J)5–17(S), 4'X 2.5'SIGN SHALL BE CE WARNING SIGN, (W20 SERIES) AT

STALL AND RUN VARIABLE MESSAGE TRAFFIC PATTERNS TO KEEP THE FIC PATTERNS.

S NOT TO OBSCURE DRIVER'S LINE OF IAL DRIVEWAYS.

RES INCLUDING SIGNS, CONES, DRUMS, DWN ON PLANS. SIGNS SHALL NOT BE ND SHALL BE IMMEDIATELY REMOVED

INSTALLED UPON THE APPROVAL OF

NTRACTOR SHALL SUPPLY AND PLACE VICES AT THE UNIT BID PRICE.

SHALL BE CLEANED AND MAINTAINED IN UGHOUT THE ENTIRE CONSTRUCTION ENT COSTS WILL BE INCLUDED IN THE ON SIGNS SHALL BE REMOVED OR THE MESSAGE IS NOT APPLICABLE FOR

THE ONE CALL SYSTEM AT Y MARKOUT PRIOR TO THE INSTALLATION

UBLIC WORKS ARE TO BE NOTIFIED A LLATION OF ANY STRIPING WITHIN IS TO BE MADE BY THE CONTRACTOR

LED, THE CONTRACTOR SHALL HAVE A TY OF PRINCETON AND THE COUNTY.

### TYPICAL CONSTRUCTION STAGING NOTES

- INSTALL CAUTION FENCE AND SILT FENCE WITHIN THE LIMITS OF THE CURRENT STAGE AT LOCATIONS SHOWN ON THE PLANS. CLEAR TREES AND BRUSH UP TO SILT OR CAUTION FENCING, THE CONTRACTOR IS ONLY TO CLEAR TREES AND BRUSH AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
- 2. STRIP TOPSOIL WITHIN CURRENT STAGE WORK AREA. REFER TO THE CONSTRUCTION PLANS FOR THE "LIMIT OF DISTURBANCE" LINE WHICH INDICATES THE LIMIT OF STRIPPING. STRIPPED MATERIAL DEEMED SUITABLE FOR USE AS TOPSOIL MAY BE STOCKPILED ON-SITE FOR USE ON FUTURE STAGES AT THE DIRECTION OF THE ENGINEER.
- 3. AT THE CONCLUSION OF EACH WORKING DAY THE CONTRACTOR IS TO PROVIDE PAVEMENT RAMPS OF 50:1 AT TRAVERSE JOINTS OF 1 1/2 INCHES OR GREATER AND HMA PAVEMENT RAMPS AT ALL DRIVEWAYS. THE CONTRACTOR IS TO PLACE TEMPORARY PAVEMENT MARKINGS, STRIPING, OR CONSTRUCTION DEVICES PRIOR TO OPENING TO NORMAL TRAFFIC, AS DIRECTED BY THE RE.
- 4. LANDSCAPE EMBANKMENT AREAS PRIOR TO MOVING ONTO NEXT STAGE.
- 5. FINAL RESTORATION SHALL BEGIN A MINIMUM OF ONE (1) MONTH (OR AT THE DISCRETION OF THE RE) AFTER TRENCH BACKFILLING AND PAVEMENT REPAIR.

### STATE FEDERAL PROJECT NO.

N.J.

## NOTES - TRAFFIC CONTROL PLANS

- 1. FOR ONE LANE DAYTIME OPERATIONS, THE WORKING HOURS IN THE ROAD LANES IS 9:00 AM TO 4:00 PM.
- TWO LANES OF 11 FEET WIDE UNOBSTRUCTED TRAVEL WAY SHALL BE MAINTAINED AT ALL TIMES BETWEEN THE HOURS OF 7 - 9 AM AND 4 - 6 PM.
- 3. WORK ON SATURDAYS, SUNDAYS, OR HOLIDAYS WILL REQUIRE PRIOR APPROVAL FROM THE RE AND THE MUNICIPALITY.

NOTE: REFER TO NJDOT STANDARD ROADWAY CONSTRUCTION – TRAFFIC CONTROL – BRIDGE CONSTRUCTION DETAILS (2016) FOR DETAILS NOT SHOWN ON THESE PLANS.

![](_page_12_Figure_38.jpeg)

![](_page_12_Picture_39.jpeg)

TCD-1 TCD-

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS

PRETTY BROOK ROAD - LHT CONNECTOR TRAIL FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE03930500

Sefin W. Katching

ALFRED W. KOTCHI, JR. 🥖

![](_page_13_Figure_0.jpeg)

## CONSTRUCTION SIGN TABLE

	WORK AREA
$\square$	BUFFER ZONE
	TEMPORARY PAVEMENT BEING CONSTRUCTED
	TEMPORARY PAVEMENT BUILT
	PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

/ATERIAL	DEN	<b>NSE</b>		
REGATE	BAS	ЕC	OUR	SE
1ATERIAL	AS	APF	PRO	∕ED
INEER				

APPROXIMATE LOCATION OF DRUMS DURING NON-WORKING HOURS AS DIRECTED

	RECOMMENDED SPACING ALONG TANGENTS
M (B) G PERS T	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
	50
	60
	70
	80
	90
	100
	110
	120
	130

SIGN DESIGNATION	MESSAGE (DESCRIPTION)	SIZE INCH X INCH	AREA IN SQ.FT.	REQUIRED QUANTITY IN NUMBER	TOTAL AREA IN SQ.FT.
G20-2A	END ROAD WORK	48 X 24	8.0	3	24.0
M4-8a	END DETOUR	24 X I8	3.0	I	3.0
M4-9I	DETOUR LEFT	30 X 24	5.0	5	25.0
M4-9r	DETOUR RIGHT	30 X 24	5.0	6	30.0
M4-9×	DETOUR STRAIGHT	30 X 24	5.0	16	80.0
RII-2	ROAD CLOSED	60 X 30	12.5	2	25.0
RII-3a (LOCAL)	ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY	60 X 30	12.5	2	25.0
SIGN P	PRETTY BROOK RD	24 X I8	3.0	31	93.0
W20-IA (1500 FT)	ROAD WORK ISOO FT	48 X 48	16.0	3	48.0
W20-ID (1/2 MILE)	ROAD WORK 1/2 MILE	48 X 48	16.0	3	48.0
W20-2	ROAD CLOSED AHEAD	48 X 48	16.0	2	32.0
W20-2 (AHEAD)	DETOUR AHEAD	48 X 48	16.0	2	32.0
W20-4B	ONE LANE ROAD 1000 FT	48 X 48	16.0	3	48.0
W20-7a	FLAGGER SYMBOL	48 X 48	16.0	3	48.0
W20-7aS	500 FEET	24 X I8	3.0	3	9.0
W20-7b	BE PREPARED TO STOP	48 X 48	16.0	3	48.0
			CONSTRU	CTION SIGN TOTAL	618 S.F.

REGULATORY APPROACH SPEED_OF	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS				
TRAFFIC	DESIR	MINIMUM			
MILES/HOUR	RURAL FEET	URBAN FEET	RURAL AND URBAN FEET		
25	375	525	150		
30	450	625	200		
35	525	725	250		
40	600	825	325		
45	675	925	400		
50	750	1025	475		
55	875	1 150	550		
60	1000	1275	650		
65	1050		725		

NOTES: I. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.

- 2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
- 3. RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS. THIS PROJECT IS DESIGNATED AS URBAN.
- 4. DESIRABLE VALUES SHALL BE PROVIDED WHEREVER POSSIBLE. IF IT IS NOT FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
- 5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

CHANNELIZATION D	)EVICES
DEVICE	CONTRACT QUANTITY
BREAKAWAY BARRICADES	20 UNITS
DRUMS	40 UNITS
TRAFFIC CONES	20 UNITS

STATE | FEDERAL PROJECT NO

N.J.

TCD-2 TCD-

NEW JERSEY DEPARTMENT OF TRANSPORTATION

## TRAFFIC CONTROL DETAILS

PRETTY BROOK ROAD - LHT CONNECTOR TRAIL FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

Sefer Witstehn

ALFRED W. KOTCHI, JR. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE03930500

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_15_Figure_0.jpeg)

SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET 18 FOR

(ROADWAY, TRAFFIC CONTROL, BRIDGE) TO BE USED

		STATE	FEDERAL PROJECT NO.
		N.J.	
_	LEGEND		
	BREAKAWAY BARRICADES		
	BREAKAWAY BARRICADES WITH SIGN		
S	CONSTRUCTION SIGNS		
$\bigcirc$	DRUMS OR 🔶 CONES		
	PRECAST CONCRETE CONSTRUCTION BARRIER (TYPE SPECIFIED)		
◄──	DIRECTION OF TRAFFIC FLOW		
	FLAGGER		
	WORK AREA		
	BUFFER ZONE		

	STANDA	RD	SIGNS	S
SIGN	SIGN DESIGN	SIGN TYPE	SIGN SIZE	MOUNT TYPE
1	TRAFFIC FINES DOUBLED in work area	R(NJ)5-17	48"X30"	2 POSTS
2	ONE LANE ROAD 1000 FT	W20-4B	48"X48"	2 POSTS
3	(T)	W20-7a	48"X48"	2 POSTS
4	ROAD WORK	W20-1*	48"X48"	2 POSTS
5	BE PREPARED TO STOP	W20-7b	48"X48"	2 POSTS
6	END ROAD WORK	G20-2A	48"X24"	2 POSTS
7	500 FEET	W16-2A	24"X18"	2 POSTS

NOTE: REFER TO THE NJDOT STANDARD CONSTRUCTION DETAILS ROADWAY / TRAFFIC CONTROL / BRIDGE CONSTRUCTION BOOKLET, 2016 FOR TRAFFIC CONTROL DEVICE DETAILS.

![](_page_15_Picture_8.jpeg)

![](_page_16_Figure_0.jpeg)

NOTE:

SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE ON SHEET 18 FOR VALUES OF L, B, AND D.

STATE	FEDERAL PROJECT	N0.
N.J.		

Γ	<u>LEGEND</u> breakawa	) Y BARRICADES	
I	BREAKAWA	Y BARRICADES WITH	I SIGN
S	CONSTRUCT	FION SIGNS	
$\bigcirc$	DRUMS	OR $\blacklozenge$	CONES
	PRECAST C Barrier (1	CONCRETE CONSTRU TYPE SPECIFIED)	CTION
◄	DIRECTION	OF TRAFFIC FLOW	
	FLAGGER		
	WORK ZONE		
	BUFFER ZON	١E	

	STANDA	RD	SIGNS	5
SIGN	SIGN DESIGN	SIGN TYPE	SIGN SIZE	MOUNT TYPE
1	ONE LANE ROAD 1000 FT	W20-4B	48"X48"	2 POSTS
2		W20-7a	48"X48"	2 POSTS
3	ROAD WORK	W20-1*	48"X48"	2 POSTS
4	BE PREPARED TO STOP	W20-7b	48"X48"	2 POSTS
5	END ROAD WORK	G20-2A	48"X24"	2 POSTS
6	500 FEET	W16-2A	24"X18"	2 POSTS
7		W1-4A (L OR R)	48"X48"	2 POSTS
8	ROAD NARROWS	W5-1 (S)	48"X48"	2 POSTS
9		W1-6	48"X 24"	BARRICADE MOUNTED

NOTE: REFER TO THE NJDOT STANDARD CONSTRUCTION DETAILS ROADWAY / TRAFFIC CONTROL / BRIDGE CONSTRUCTION BOOKLET, 2016 FOR TRAFFIC CONTROL DEVICE DETAILS.

![](_page_16_Picture_8.jpeg)

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![](_page_17_Figure_4.jpeg)

## CROSS SECTIONS

STATE FEDERAL PROJECT NO.

N.J.

LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMENT FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

WSP USA Inc.
CERTIFICATION OF AUTHORIZATION NO. 24GA28029800
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JOLLY O. BENITEZ

NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100

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![](_page_18_Figure_1.jpeg)

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C = 2 SF F = 4 SF

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![](_page_18_Figure_2.jpeg)

C = 5 SF F = 1 SF 

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	STATE	FEDERAL PROJECT NO.
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	LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY
	CROSS SECTIONS
	LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMEN FROM PROVINCE LINE ROAD TO CLEVELAND ROAD
SCALE IN FEET	CERTIFICATION OF AUTHORIZATION NO. 24GA28029800

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JOLLY O. BENITEZ NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100

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	CROSS SECTIONS
	LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMENT FROM PROVINCE LINE ROAD TO CLEVELAND ROAD

			SCALE	E IN FEET	
RIZ. & VERT.					
	10'	5'	0	10'	20'

CERTIFICATION OF AUTHORIZATION NO. 24GA28029800 JOLLY O. BENITEZ

WSP USA Inc.

NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100

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-NUL-05	$140 \left[ \begin{array}{c} & & & & \\ & & & \\ & & & \\ & & & \\ 130 \\ & & & \\ 120 \\ & & & \\ 50 \end{array} \right] \left[ \begin{array}{c} & & & & \\ & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ \end{array} \\ \left[ \begin{array}{c} & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ \end{array} \\ \left[ \begin{array}{c} & & & \\ \end{array} \right] \left[ \begin{array}{c} & & & \\ \end{array} \\ \left[ \begin{array}{c$
	140 130 120
OPERATOR Runk OPERATOR Runk PLOT DATE 30-JUN-2022 19:00 PENTABLE pentable=ehdot.tbl OMERSIGNS AFILITED T:\52341_LHTT#E689341Ekd4R\\PNyexts003010000k@hwy@xs06.dgn	¹²⁹ 50 - 40 - 30 - 20 - 10 - 20 - 20 - 20 - 20 - 20 - 2

![](_page_22_Figure_1.jpeg)

27+88

![](_page_22_Figure_3.jpeg)

27+50

![](_page_22_Figure_5.jpeg)

27+00

## Excavation

(A) Excavated Materials Excavation, Unclassified Excavation from Cros Removal o Less

<u>Topsoiling</u> (A) Topsoil Available Topsoiling, 5" Thick fr

(A) Topsoil Required Topsoiling, 5" Thick fr

Fertilization and Seeding

Straw Mulching

STATE	FEDERAL PROJECT NO.
N.J.	

Description		Contract Quantity
ss Sections of Pavement		824 C.Y. 0 C.Y.
	Total Excavation, Unclassified	824 C.Y.
rom Cross Sections		967 S.Y.
	Total Stripping Available for Top Soil	967 S.Y.
rom Cross Sections		967 S.Y.
	Total Topsoiling, 5" Thick required in SY	967 S.Y.
		967 S.Y.
		967 S.Y.

STA. 27+00 TO STA. 27+88

	X-6 X-
	LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY
	CROSS SECTIONS
	LAWRENCE HOPEWELL TRAIL - PRETTY BROOK SEGMEN FROM PROVINCE LINE ROAD TO CLEVELAND ROAD
SCALE IN FEET Z. & VERT	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA28029800 JOLLY O. BENITEZ NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE05810100

![](_page_23_Figure_0.jpeg)

		STATE FE	DERAL PROJECT NO.
		N.0.	
5" THICK ————————————————————————————————————	CAP. 3" THICK		
DING TYPE A-3			
(6" THICK UNTS), 30" MA			
	SHED GRADE		
UGATED PIPE - 6" X 24" DENS	E GRADED AGGREGATE		
OR NO. 57 AG	GREGATE BASE COURSE		
NDSCAPE BLOCK RETAINING	WALL		
N.T.S.			
TO BE CONSTRUCTED FOLLOWING MANUFAC	CTURERS'		
LATION GUIDELINES.			
<u>10′</u>			
9.5 MM FRICTION COURSE, 2" THICK			
ED DRAINAGE COURSE, MODIFIED, 2" THICK			
GREGATE STORAGE BED. 5" THICK			
	Y COMPACTED SUBGRADE		
ENT TYPICAL SECTION	NOTE:		
.T.S.	EXISTING DRIVEWAY GRADES TO BE M	AINTAINED.	DTL-1
			DTL-4
	LAWKENCE TOWNSHIP, MERCER C	jouniy, Ne	EVV JERSEY
	CONSTRUCTIO	N DET.	AILS
	LAWRENCE HOPEWELL TRAIL - PRE FROM PROVINCE LINE ROAD TO	TTY BROC	NK SEGMENT
	WSP USA Inc. CERTIFICATION OF AUTHORIZATION NO. 24GA2802980	- <u>)</u> 0	$\frown$
	JOLLY O. BENITEZ	-	()
	NEW JERSEY PROFESSIONAL ENGINEER NO. 24GE0581010	Ō	$\smile$

![](_page_24_Figure_0.jpeg)

![](_page_25_Figure_0.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_27_Figure_0.jpeg)

		STATE	FEDERAL PROJECT NO.	SHEET	тот	AL SHEETS
		N.J.				
		STRUC	TURE NO.			
<u>IE</u>	RAL NOTES:					
ESI	<u>GN_SPECIFICATIONS:</u>					
(A)	2020 (9TH EDITION) AASHTO LRFD BRIDGE DESIGN SPECIFICAT AS MODIFIED BY SECTION 3 OF THE NJDOT DESIGN MANUAL 6TH EDITION, 2016.	IONS V FOR B	VITH CURRENT INT RIDGES AND STR	ERIMS, UCTURI	ËS	
(B)	AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF P WITH 2015 INTERIM REVISIONS	EDESTR	RIAN BRIDGES, 2ND	) EDITI	ON,	
(C)	2004 ADA ACCESSIBILITY GUIDELINES					
(D)	WELDING, EXCEPT FOR HOLLOW STRUCTURAL SECTIONS, SHAL ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE WITH NJDOT NONDESTRUCTIVE TESTING SYMBOLS SHALL CONFORM TO SY AND NONDESTRUCTIVE EXAMINATION AWS A2.4.	LL CON AMEND YMBOLS	IFORM TO THE C MENTS. WELDING S FOR WELDING, B	URREN [®] AND }RAZIN(	T G	
(E)	FOR STRUCTURES FABRICATED WITH HOLLOW STRUCTURAL QUALIFICATION OF WELD DETAILS, INSPECTION AND WELDER TO THE PROVISIONS OF THE CURRENT ANSI/AWS D1.1 STRUCT	SECTIO QUALIF FURAL	NS (HSS), ALL WE ICATIONS SHALL ( WELDING CODE-S1	LDING CONFO FEEL	RM	
ON	STRUCTION SPECIFICATIONS:					
019 Y ⁻ <u>ESI</u>	NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE ( THE SPECIAL PROVISIONS. <u>GN LOADS:</u>	CONSTF	RUCTION AS AME	1DED		
OR	SUPERSTRUCTURE (PREFABRICATED TRUSSES):					
(A)	JEAD LOAD: THE BRIDGE STRUCTURE DESIGN SHALL CONSIDER ITS OWN I AND CONCRETE DECK SLAB)	DEAD L	.OAD (PREFABRIC	TED 1	FRUSSE	ES
(B)	_IVE LOAD:					
	-90 PSF PEDESTRIAN LIVE LOAD FOR WALKWAY. -AASHTO H-5 TRUCK (FOUR WHEEL TRUCK WITH TOTAL WEIG	GHT =	10,000 LB)			
(C)	CONCENTRATED LOADS:					
	ALL THE CONCENTRATED OR WHEEL LOADS SHALL BE PLACE STRESS IN EACH MEMBER ANALYZED. CRITICAL STRESSES SH IS ONLY ONE (1) VEHICLE ON THE BRIDGE AT ANY GIVEN TIM TRAVEL DOWN THE CENTER OF THE BRIDGE OR THAT THE \ SHALL NOT BE ALLOWED.	ED SO ALL BE /IE. ASS /EHICLE	AS TO PRODUCE CALCULATED AS UMPTIONS THAT LOAD IS A UNIF	THE SUMINO VEHICL ORM I	MAXIMU G THE ES ON LINE L(	UM RE ILY OAD
(D)	53.3 PSF WIND LOAD HORIZONTALLY AT RIGHT ANGLES TO STRUCTURE.	THE LC	NGITUDINAL AXIS	OF TH	ΉE	
(E)	20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTE WIDTH APPLIED CONCURRENTLY.	ER POIN	IT OF THE TRANS	VERSE	BRIDO	ЭЕ
(F)	SEISMIC LOAD (SEE NOTE 8).					
(G)	DESIGN LOAD COMBINATIONS SHALL BE IN ACCORDANCE WIT	H AAS	HTO LRFD TABLE	3.4.1-1		
(H)	THE FUNDAMENTAL FREQUENCY OF THE PEDESTRIAN BRIDGE THAN 3.0 (HZ) TO AVOID THE FIRST HARMONIC MOTION.	WITHO	UT LIVE LOAD SH	IALL B	E GRE	ATER
ON	<u>CRETE COMPRESSIVE STRESS:</u>					
(A)	DESIGN COMPRESSIVE STRENGTH (f'c): CLASS A = 4,000 PSI CLASS B = 3,000 PSI					
(B)	CLASS MIX DESIGN STRENGTHS: (IN ACCORDANCE WITH TABLE 914-3 OF THE NJDOT STANDAR CLASS A = 4,600 PSI AT 28 DAYS CLASS B = 3,700 PSI AT 28 DAYS	D SPE	CIFICATIONS).			
<u>EIN</u> STI	<u>FORCEMENT STEEL:</u> // A615 (GRADE 60).					
UPE	RSTRUCTURE:					
(A)	THE STEEL TRUSSES OF THE PEDESTRIAN BRIDGE SHALL BE THE DESIGN OF THE SUPERSTRUCTURE INCLUDING THE STEEL DECK SLAB SHALL BE THE RESPONSIBILITY OF THE MANUFAC	PREFAE TRUS CTURER	BRICATED BY A I SES, BEARINGS, HA	MANUF ND RA	ACTURI .IL ANE	ER. )
(B)	THE BRIDGE FABRICATOR IN CONJUNCTION WITH THE CONTRADRAWINGS AND THE DESIGN CALCULATIONS OF THE PEDESTREE CONSTRUCTION PLANS THAT INDICATE THE PROCEDURES DECK PLACEMENT FOR THE ENGINEER'S APPROVAL. SHOP DRABE SIGNED AND SEALED BY A NEW JERSEY PROFESSIONAL	ACTOR RIAN BI S FOR AWINGS ENGINE	SHALL SUBMIT T RIDGE SUPERSTRU FABRICATION, ERE AND CALCULATI EER.	HE SHO CTURE CTION ONS S	OP AND AND HALL	
(C)	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILIT BRIDGE.	ΓΥ OF	ALL COMPONENTS	OF T	ΉE	

8'					GENERAL ELEVATIO TYPICAL SE	N, PROFILE AND ECTION
4'					LAWRENCEVILLE HO PRETTY BROOK SEGMEN LINE ROAD TO CLE	OPEWELL TRAIL T FROM PROVIDENCE VELAND ROAD
					WSP USA Inc.	
10′					CERTIFICATION OF AUTHORIZATION NO. 24GA28029800	SCALE: AS SHOWN
					Tam av-	
					TAM L. SILLICK	BRIDGE
100'	REVISION	BY	CHK.	DATE	NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04513400	SHEET NO OF