New Jersey Turnpike Authority

1 TURNPIKE PLAZA - P.O. BOX 5042 - WOODBRIDGE, NEW JERSEY 07095
TELEPHONE (732) 750-5300

PHILIP D. MURPHY
GOVERNOR

TAHESHA L. WAY
LIEUTENANT GOVERNOR

DIANE GUTIERREZ-SCACCETTI, *Chair*
ULISES E. DIAZ, Vice Chair
MICHAEL R. DuPONT, Treasurer
RONALD GRAVINO, Commissioner
JOHN D. MINELLA, Commissioner
RAPHAEL SALERMO, Commissioner
FRANCISCO MALDONADO, Commissioner
JAMES D. CARONE, *Executive Director*

ADDENDUM NO. <#>

To Contract Documents For

CONTRACT NO. <###.###>

<NEW JERSEY TURNPIKE/GARDEN STATE PARKWAY>
<TITLE AS IT APPEARS ON THE CONTRACT DOCUMENTS>
<Township(s)>
<County or Counties>

<Date>

To All Concerned:

The original Contract Plans and Specifications dated <Month>, <Year> [use the date the Chief Engineer signed the title sheet] for Contract No. <###.###> of the New Jersey Turnpike Authority are amended as noted in this Addendum No. <#>, and this Addendum shall become part of the Contract Documents.

Bidders must acknowledge receipt of this Addendum <and all previous – for Addenda 2 and higher> and subsequent Addenda on the Proposal Forms when submitting Proposals. In case any bidder fails to acknowledge receipt of this Addendum, its Proposal will nevertheless be construed as though the Addendum had been received and acknowledged and submission of its Proposal will constitute acknowledgement by the bidder of the receipt of same.

PERTAINING TO THE ADVERTISEMENT FOR PROPOSALS

Page 2 Delete the first paragraph and replace with the following:

Bidders must be prequalified under Contract Classification 3, General Construction, Highway **OR** Classification 4, Bridge Structures **OR** Classification 5, Heavy Highway, Rating Unlimited prior to the receipt of bids. For proposals submitted by joint ventures, each member of the joint venture must be prequalified in the Contract Classification, and the sum of the ratings held by each member must be within 10 percent of the total price bid by the joint venture. In cases where the sum of the ratings exceeds $10 million, the joint venture's rating will be Unlimited.

Delete the first sentence of the second paragraph and replace with the following:

Documents for bidder's New Jersey Turnpike Authority (the "Authority")

prequalification or renewal of prequalification must be in the hands of the Authority's Engineering Department no later than June 6, 2013.

Page 3 In the eighth paragraph, change the time and date for the receipt of Proposals from "11 o'clock Prevailing Time on the morning of June 27, 2013" to "12:30 PM Prevailing Time on the afternoon of June 27, 2013".

PERTAINING TO THE CONTRACT AGREEMENT

Page 2 Under the subsection "Phase 1:" just above the last paragraph, delete the text "October 19, 2014" and replace it with the text "November 3, 2014".

One (1) copy of the Contract Agreement Page 2R dated <Month> <Day>, <Year> is enclosed to reflect the above-mentioned change.

PERTAINING TO THE PROPOSAL

Item No. 13 Unit Code 3B00001, Change the Quantity from 185 C.Y. to 155 C.Y.

Item No. 61 Change the Unit Code from "4A00004", to "4A00005".

Item No. 64 Unit Code 4C00001, Change the Unit from S.Y. to C.Y.

Item No. 85 Unit Code 5B00001, This item is deleted.

Item No. 86 Change the Unit Code from 5B00017 to 5B00045. Change the description from "14" x 23" Elliptical Reinforced Concrete Pipe, Class III" to "14" x 23" Reinforced Concrete Elliptical Pipe, Class V".

Item No. 136 Add Unit Code "5B15RC3", Item Description "15" Reinforced Concrete Pipe", Unit "L.F.", Approx. Qty. "9,637".

Item No. 138 Add Unit Code "5B15RC5", Item Description "15" Reinforced Concrete Pipe, Class V", Unit "L.F." Approx. Qty. "718".

Item No. 139 Add Unit Code "5B18RC3", Item Description "18" Reinforced Concrete Pipe", Unit "L.F." Approx. Qty. "2,387".

PERTAINING TO THE SUPPLEMENTARY SPECIFICATIONS

106.18(F)(1)
Page 38 The first sentence under Subparagraph 1 is deleted and replaced with the following:

"The Contractor is advised that SPLP personnel, contractors and inspectors will be on the site and within SPLP's easement until August 1, 2013, when it is anticipated the existing pipe will have been decommissioned and removed."

107.14
Page 40 The following is added to the end of the Subsection:

"Utility easements for construction of the pole line down Hightstown-Cranbury Station Road on the east side of the Turnpike by JCP&L approved subcontractor will be available on or before July 15, 2013.

Contractor access to the following parcels will be available on or before July 1, 2013:

- Parcel C1156 - Cranbury Brickyard
- Parcel R1165A,B,C - Keystone NJ
- Parcel 1166A & B - Keystone Station Rd.

202.03
Page 50 The fourth sentence of the first paragraph is deleted and replaced with the following:

"Stripped topsoil, in excess of the quantity required for the Project, shall be disposed of outside the Turnpike Right of Way by the Contractor."

411.09(F)(2)(c),
Page 54 This Part is deleted in its entirety and replaced with the following:

"Upon completion of surface preparation, test representative surfaces, which were previously rusted (i.e. pitted steel) for the presence of residual chloride, sulfate and nitrate. Eighty percent (80%) of the tests shall be for the detection of chloride only. Twenty percent (20%) of the tests shall be for the detection of chloride, sulfate and nitrate. Report all results to the Engineer. The approved test kits shall be the *CHLOR*TEST™* for chloride and *CHLOR*TEST "CSN Salts"™* for chloride, sulfate and nitrate. These test kits are manufactured by CHLOR*RID®, 1-800-422-3217."

Section 537
Page 214 The following Section is added:

SECTION 537 – JCP&L FACILITY

537.01 DESCRIPTION

This Section describes the requirements for installing, Jersey Central Power and Light (JCP&L) electric utility facilities in accordance with Appendix O and shall include all work necessary to transfer service.

537.02 MATERIALS

Except as noted below, JCP&L will supply all materials necessary for the work at no cost to the Contractor. The electric subcontractor shall provide JCP&L with written notice 6 months in advance of when materials will be required. The electric subcontractor shall take delivery of the materials from JCP&L's storage facility within two weeks of the notice from JCP&L indicating that the material is available. Materials may be located at more than one JCP&L storage facility. If the electric subcontractor fails to take delivery, the material may not be available, and the electric subcontractor may be required to provide an additional request for materials. The electric subcontractor is responsible for compensating the Authority for any additional handling costs incurred by JCP&L resulting from the failure to take delivery within the time required.

The electric subcontractor is responsible for loading the material, delivering it to the job site, and all subsequent handling and delivery within the jobsite. The electric subcontractor shall store and protect all materials received from JCP&L. The electric subcontractor shall return and deliver all excess materials furnished by JCP&L to JCP&L's storage facility. The electric subcontractor shall obtain a receipt for all material received from JCP&L, maintain a documented inventory of materials used and obtain a receipt for all material returned to JCP&L.

The Contractor supplied materials:

- Tack Coat, which shall conform to subsection 904.02
- Bolts and Bolting Materials, which shall conform to subsection 909.02
- Superpave HMA, which shall conform to section 924
- Concrete, Mortar and Grout, which shall conform to section 905

537.03 METHODS OF CONSTRUCTION

A. Prequalification.

Only a prequalified electric subcontractor, approved by JCP&L, may construct JCP&L electric facilities. The following is a list of electric subcontractors that have been previously approved by JCP&L. This list is provided as information only, and is not an endorsement by the Authority of any subcontractor. The Contractor is responsible for soliciting from a subcontractor that will be approved by JCP&L when preparing its Bid. Work restricted to the electric subcontractor does not preclude the Contractor from performing the work of layout, traffic control, sawcutting, pavement removal, temporary or final pavement restoration, and landscape restoration associated with the work of installing JCP&L electrical facilities.

APPROVED ELECTRICAL SUBCONTRACTOR

Distribution (DX) & Transmission (TX) overhead

Asplundh
161 Second Street
Wilkes Barre, PA 18702
Tel: 570-947-1101
Fax: 570-822-0770

Attn: Vincent Stanbro
email: v.stanbro@asplundh.com

Hawkeye, LLC
100 Marcus Blvd
Hauppague, NY 11788
Tel: 631-447-3100
Fax: 631-776-1847
Att: Charles Gravina - Mgr. Electric Operations
email: cgravina@hawkeyellc.com

Henkels & McCoy, Inc.
985 Jolly Road
Blue Bell, PA 19422
Tel: 215-283-7707
Fax: 215-283-7573
Att: Alan L. Lippy - Director, Power Operations East
email: alippy@henkels.com

JBL Electric Inc.
250 Lackawanna Ave
West Paterson, NJ 07424
Tel: 973-774-4218
Att: Jim Leary – President
email: jleary@jblelectric.com

M.J. Electric, Inc.
1047 Shoemaker Avenue
PO Box 310
Shoemaker, PA 19555-310
Tel: 610-562-7570 x 4802
Fax: 610-562-1375
Att: Mike Troutman
email: mtroutman@mjelectric.com

MYR (Harlan & The L.E. Myers Company)
1416 Trindle Road 3-A
Carlisle, PA 17013-9718
Tel: 717-243-4600
Fax: 717-243-3633
Att: Jim Collins
email: jcollins@myrgroup.com

Richardson & Wayland
PO Box 12648
Roanoke, VA 24027
Tel: 540-344-3244

Tri-M Corp
PO Box 69
204 Gale Lane

Kennett Square, PA 19348
Tel: 610-444-1001 ext 159
Fax: 484-731-0209
Attn: Ron Baugess
email: rbaugess@trimecc.com

Approved for underground work only:
J. Fletcher Creamer & Son, Inc.
1701 E. Linden Avenue
Linden, NJ 07036
Tel: 908-925-3200
Fax: 908-925-3350
Att: Ted Paliwoda
email: tpaliwoda@jfcson.com

B. Scheduling of Work and Interruption to Utilities. The electric subcontractor shall provide the Engineer and the designated JCP&L representative with a detailed schedule of when the electric utility work will be performed. The schedule for each activity shall include the following information: the work locations; the number of crews; and whether the work will be performed during a day shift or night shift, or on weekends. The electric subcontractor shall coordinate all electric utility work with the JCP&L representative, and notify the Engineer and the JCP&L representative at least two weeks prior to starting electric utility work. The electric subcontractor shall not interrupt existing electric service until approved by the JCP&L representative.

Weather conditions may prevent connections to existing systems between June 1 and September 30. The electric subcontractor shall not perform work which will require electric transmission service interruptions from June 1 through September 30 without the approval of JCP&L. JCP&L may extend this period based on weather conditions and system demand. The electric subcontractor shall notify JCP&L at least one month in advance of commencing conductor work.

If service transfers are required, the electric subcontractor shall coordinate service transfers with the JCP&L representative. The electric subcontractor shall notify the property owner and all tenants affected by service interruptions or transfers prior to making the service transfer. The electric subcontractor shall minimize disruption to normal operations of existing facilities and minimize any interruption of electric service to JCP&L customers. The electric subcontractor shall protect existing facilities during construction and installation of the service transfer.

C. Quality Control and Quality Assurance. The electric subcontractor shall provide access to the work for the JCP&L representative at all times. The electric subcontractor shall perform all electric utility work in a manner acceptable to the JCP&L representative. The electric subcontractor shall perform all electric utility work in accordance with JCP&L standards and details.

D. Safety. The electric subcontractor shall perform work in accordance with applicable OSHA regulations, N.J.S.A. 34:6-47 "High Voltage Proximity Act", and JCP&L safety standards.

E. Abandonment and Removal. Prior to beginning work, the electric subcontractor shall review the condition of all existing electric utility facilities noted to be removed with the JCP&L representative. If the JCP&L representative designates the material to be salvaged, the electric subcontractor shall remove the material and deliver it to a JCP&L storage facility.

The electric subcontractor shall remove and dispose of all other electrical utility material designated for removal.

F. Excavation. When excavation is required in areas having existing pavement and sidewalk, the electric subcontractor shall sawcut to the full depth of the existing pavement and sidewalk. The electric subcontractor shall excavate trenches for conduit, manholes and vaults and appurtenances. The electric subcontractor shall provide vertical sides for excavations within the traveled way, shoulder, sidewalk areas, and where existing facilities require protection. The electric subcontractor shall remove unstable material at the bottom of the excavation and backfill with granular material. The electric subcontractor shall not excavate trenches more than 300 feet in advance of installing conduit unless approved by the Engineer. The electric subcontractor shall provide and maintain trench crossings where necessary to maintain access. The electric subcontractor shall not leave trenches open overnight unless protected by temporary fencing or steel plates. The electric subcontractor shall remove and dispose of excess or unsuitable material as specified in 202.03.

G. Existing Utilities. The electric subcontractor shall determine the location of all surface and subsurface structures within the work area, including but not limited to underground electric, telecommunication, gas and sewer facilities. The electric subcontractor shall protect and support all existing utilities exposed during excavation operations.

H. Backfill. The electric subcontractor shall backfill with suitable material in lifts not exceeding 6 inches thick, loose measurement. If the backfill is predominantly granular material, the electric subcontractor shall compact the backfill material with a vibratory plate compactor. For material that is not predominately granular, the electric subcontractor shall compact the backfill material with a vibratory rammer compactor. If it is not possible to compact the backfill material, the electric subcontractor may be required to backfill with Controlled Low Strength material (CLSM) with the approval of the JCP&L representative. CLSM may only be placed when the ambient temperature is at least 30 degrees F. CLSM may not be placed on frozen ground. The electric subcontractor shall ensure that CLSM is discharged directly from the truck into the trench, and allowed to cure after placement. CLSM may not be used to replace pavement, base courses or drainage layers in the roadway. Excess or unsuitable material shall be removed and disposed as specified in 202.03. If CLSM is required, it shall be a mixture of cement, water fine aggregate and admixtures. It shall provide a backfill that is self-compacting and capable of being excavated with hand tools at a later date. It shall have a 28-day compressive strength of 50 to 150 pounds per square inch and a permeability of 1.7×10^{-3} +/- 0.2×10^{-3} centimeters per second when tested in accordance with ASTM D5084.

I. Restoration. The electric subcontractor shall restore areas disturbed in the performance of electrical utility work to its original condition. In areas that are disturbed for which the plans provide final grading, pavement or landscaping, the electric subcontractor shall provide temporary restoration to the satisfaction of the Engineer.

J. Field Testing. The electric subcontractor shall perform a high-potential test (also known as a dielectric voltage withstand test) on all cables and splices prior to energizing. Testing must be performed by a person who is qualified to operate the test equipment, and is familiar with the cable system. The electric subcontractor must ensure that the cables are disconnected from non-cable systems equipment, and that adequate physical clearances are maintained between all cable ends, energized cables, and electrical grounds and all other equipment during the test. Prior to performing the test, the electric subcontractor shall verify that all taps or laterals in the circuit are cleared. In the event hot poured compound filled splices and terminations are involved, do not perform testing until they have cooled to ambient temperature. Set the relays in the high voltage direct current test equipment to

operate between 5 and 25 milliamperes leakage. The shape of the leakage curve under constant voltage is more important than the absolute leakage current of a "go or no go" withstand test result. The field test voltage is related to the final factory applied dc potentials using a factor of 80 percent.

The high potential test must be performed in the presence of the JCP&L representative. The electric subcontractor shall apply a direct current field test voltage according to the following table:

Field Test Values				
Rated Voltage	**dc Hi-Pot Test**		**dc Hi-Pot Test**	
Phase to	**(15 Minutes)**			
Phase	**Wall - mils**	**Kv**	**Wall - mils**	**kV**
5000	90	25	115	35
8000	115	35	140	45
15000	175	55	220	65
25000	260	80	320	95
28000	280	85	345	100
35000	345	100	420	125
46000	445	130	580	170
69000	650	195	650	195

Note: If the leakage current quickly stabilizes, the duration may be reduced to 10 minutes.

After the voltage has been applied and the test level reached, the electric subcontractor shall record the leakage current at one-minute intervals. If the leakage current decreases or stays steady after it has leveled off, the cable is considered satisfactory. If the leakage current starts to increase, excluding momentary spurts due to supply-circuit disturbances, extend the test to see if the rising trend continues. At the conclusion of the test, the electric subcontractor shall discharge the circuit through the test set and voltmeter circuit. After the potential drops below 95% of the test value, the electric subcontractor shall ground the cable and discharge the circuit. Leave the grounds on all conductors for a minimum of four times as long as the test voltage was applied.

If the cable fails to meet the requirements of the direct current field test, the electric subcontractor shall remove and replace the cable. The electric subcontractor is responsible for reimbursing the Authority for any additional material costs incurred by the Authority resulting from the failure to meet the requirements of the direct current field test.

K. Energizing Lines. Energizing lines will be performed by the electric subcontractor with the guidance of the JCP&L representative. Prior to energizing lines, the electric subcontractor must submit a request to JCP&L. Switching orders may only originate from JCP&L employees. The electric subcontractor must submit a request for permission to energize transmission lines 10 days in advance of when the work will be performed. The electric subcontractor must request permission to energize distribution lines in a manner that will permit the JCP&L representative to submit a request to JCP&L's Dispatch Office by noon the previous business day.

L. As-builts. Upon completion of the work, the electric subcontractor shall submit to JCP&L as-built drawings in accordance with JCP&L standards. Prints of construction drawings, marked to show the final location, are acceptable. The electric subcontractor shall provide a copy of the as-built drawings to the Engineer.

537.04 MEASUREMENT

JCP&L Electrical Service Contract will not be measured and payment will be made on a Lump Sum basis.

537.04 PAYMENT

PAY ITEM	*PAY UNIT*
JCP&L Electrical Service Contract	Lump Sum

PERTAINING TO THE APPENDICES

Appendix L The utility check list for JCP&L is added to the end of Appendix L. See attached page 36.

Appendix O JCP&L Bid Package is added as Appendix O. See attached pages 1 thru 27.

PERTAINING TO THE PLANS

Sheet No. 4 Item No. 13, change the contract quantity and plan sheet total from 185 C.Y. to 155 C.Y.

Sheet No. 31 Revised temporary TG elevations and deleted all drainage structures in the vicinity of Sta. S7070+50. See enclosed Sheet No. 31.

Sheet No. 39 All drainage structures in the vicinity of Sta. S7009+00 are deleted. See enclosed Sheet No. 39.

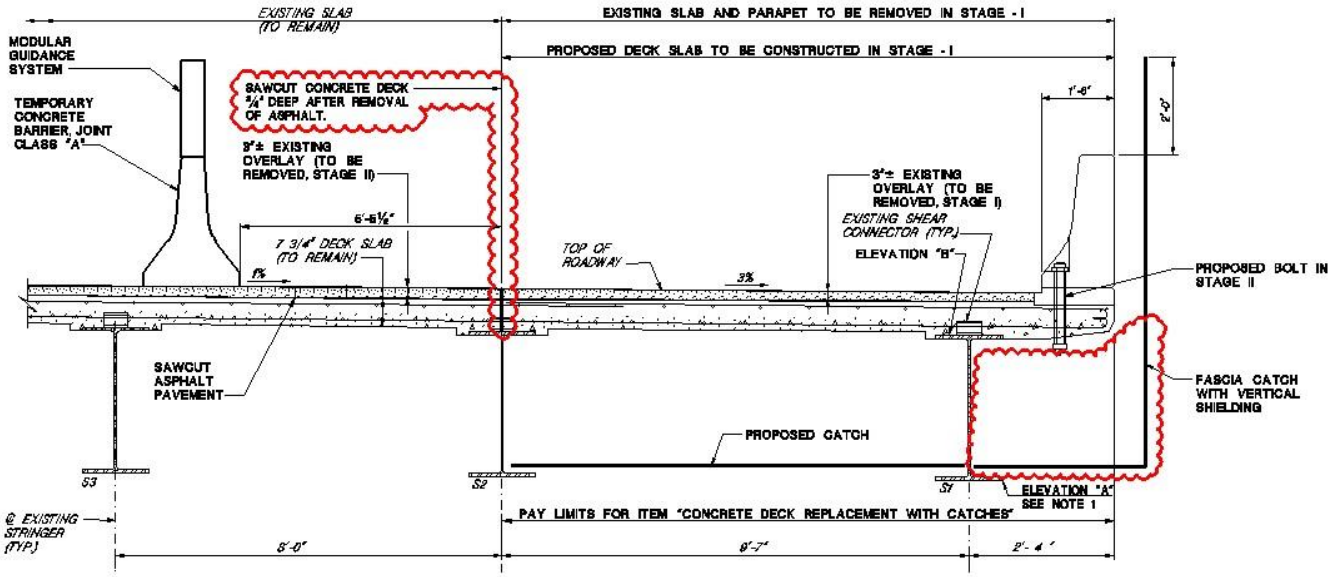
Sheet No. 59 Modify the EXISTING SECTION, STRUCTURE 84.4N cross-section shown to include the "bubbled" changes shown in the section below (The changes are also provided in the text format below):

Delete the symbol shown for FASCIA CATCH WITH VERTICAL SHIELDING under the fascia overhang. Add the symbol (line) similar to the PROPOSED CATCH shown in the first fascia bay and extend it horizontally until it intersects the line shown as vertical shielding.

Delete the sawcut shown in the cross-section and replace the same along the centerline of the stringer. Delete the dimension along with the text "3" " shown from the centerline of the stringer.

Extend the leader showing sawcut to meet the vertical line along the centerline of the stringer and delete the text "SEE NOTE 2".

Under NOTES, delete note 2 in its entirety.



EXISTING SECTION, STRUCTURE 84.4N
N.T.S.

Sheet Nos. 85, 86 and 87 — Revised drainage along Hightstown-Cranbury Station Road. See enclosed Sheet No. 85, 86, and 87.

Sheet No. 126 — Added Note 1 to read, "THE EXISTING LODGING SIGN AT STA. N7058+50 SHALL BE TEMPORARILY RELOCATED AS DIRECTED BY THE ENGINEER. THE RELOCATED SIGN SHALL REMAIN IN PLACE UNTIL IT IS REMOVED BY OTHERS IN CONTRACT NO. T869.120.702. RELOCATION OF THIS SIGN SHALL BE PAID FOR UNDER THE ITEM, "RELOCATE EXISTING GROUND-MOUNTED SIGN ASSEMBLY NO. 1."

Sheet No. 133 — Revised existing callout for sign at Sta. N7103+00 from "EXIST. SIGN TO BE REMOVED" to "EXISTING SERVICE AREA SIGN TO BE TEMPORARILY RELOCATED AS DIRECTED BY THE ENGINEER UNTIL CONTRACT SIGN NO. 3 IS INSTALLED."

Sheet Nos. 156 and 166 — JCP&L requirements are added. See enclosed Sheet Nos. 156 and 166.

Sheet No. 190 — Added Acid-Producing Soils Methods and Materials Notes and riprap pad at Indian Run Brook detail. See enclosed Sheet No. 190.

Sheet No. 194 — Modified notes and Seeding Table headings. See enclosed Sheet No. 194.

Sheet No. 299 — Revised details to show pay limits for #57 Stone Backfill and added Note 2 for wingwall reinforcement steel detail. See enclosed Sheet No. 299.

Sheet Nos. 313, 338, 362 — Under "Member Concrete Classes:" in Note 8, the Member Concrete Class table is changed to:

Member Concrete Class

Approach Slab, Abutments, All Pier Elements, Coping & Moment Slab (Except Pier Footings)..... B

Cast-In-Place Walls, Footings and Leveling Pad..... C

Deck Slabs, Barrier Parapets and Headblocks..... HPC

Sheet Nos. 323-325, 332, 333, 348 -350, 356, 357, 374-378, 386, and 387

Changes were made to the Structure No. 69.85NO, 69.85SO and 69.85R column designs, bearing details, and design force tables. See enclosed Sheet Nos. 323-325, 332, 333, 348-350, 356, 357, 374-378, 386, and 387.

Sheet No. 394

Under Note 11. Foundations, the table is changed as follows:

STEEL H-PILES: HP14X73, ASTM A572, GRADE 50

STRUCTURE NO. 70.48R	WEST ABUTMENT	PIER 1	PIER 2	EAST ABUTMENT
Nominal Axial Compression Resistance(Kips)	305	310	310	305
Factored Axial Compression Resistance (Kips)	190	200	200	190
Nominal Uplift Resistance (Kips)	290	295	295	290
Factored Uplift Resistance (Kips)	80	81	81	80
Driving Nominal Axial Compression Resistance (Kips)	305	310	310	305
Anticipated Maximum Resistance To Overcome During Driving (Kips)	500	500	500	500
Estimated Pile Tip Elevation	47.0	46.0	46.0	49.0
Minimum Pile Tip Elevation	60.0	60.0	60.0	60.0

Splices will not be permitted in the installed pile within 20 feet of the bottom of footing.

NEW JERSEY TURNPIKE AUTHORITY

Michael Garofalo, P.E.
Chief Engineer

Enclosure:
Contract Agreement – Page 2R
Appendix L – Page 36
Appendix O – Pages 1 thru 27
Contract Plan Sheets 31, 39, 85, 86, 87, 156, 166, 190, 194, 299, 323-325, 332, 333, 348 -350, 356, 357, 374-378, 386, and 387 (11"x17")