

**AGREEMENT FOR PUBLIC IMPROVEMENTS
FOR
PROJECT NO. PA15-0010 (TRACT 36882)**

This Agreement made and entered into by and between the City of Moreno Valley, State of California, hereinafter called City, and FH II, LLC, herein after called Developer, on the date the City signs this agreement.

WITNESSETH:

FIRST: Developer, for and in consideration of the approval by the City of the final map of that certain land division, or that certain other land development project, known as PA15-0010 (TR 36882) agrees, at Developer's own expense, to furnish all labor, equipment and material necessary, and within TWENTY-FOUR (24) months from the date this Agreement is executed, to perform and complete in a good and workmanlike manner, all of the required improvements in accordance with those improvement plans for said project which have been approved by the City Engineer, and are on file in the office of the City Engineer, and to do all work incidental thereto in accordance with the standards set forth in City ordinances and regulations, and pay all costs of engineering necessary in connection therewith, which are expressly made a part of this Agreement. All of the above-required work shall be done under the inspection of and to the satisfaction of the City Engineer, and shall not be deemed complete until approved and accepted as complete by the City. Developer further agrees to guarantee the required improvements for a period of one year following acceptance by the City and during this one year period to repair and replace, to the satisfaction of the City Engineer, any defective work or labor done or defective materials furnished. Developer shall complete the improvements described in this paragraph pursuant to Section 66462, Government Code. Developer shall also complete any offsite improvements required as a condition of approval and with plans approved by the City Engineer at such time as the City acquires an interest in the land which will permit the improvements to be made, and the Developer waives the 120 day time limitation set forth in Section 66462.5, Government Code.

Security to guarantee the performance of this agreement shall be in the following amounts:

Faithful Performance security shall be in the sum of ONE MILLION NINE HUNDRED SEVENTY FOUR THOUSAND AND NO/100 Dollars (*****\$1,974,000.00*****). The estimated cost of said work and improvements, pursuant to the Preliminary Estimate of Cost labeled Exhibit A attached hereto.

Labor and Material security shall be in the sum of NINE HUNDRED EIGHTY SEVEN THOUSAND AND NO/100 Dollars (*****\$987,000.00*****). The estimated cost securing payment of labor and materials is fifty (50) percent of the total cost estimate of the improvements.

Developer further agrees to guarantee the required improvements for a period of one year following acceptance by the City and during this one year period to repair and replace, to the satisfaction of the City Engineer, any defective work or labor done or defective materials furnished. Upon entering the warranty period, the City shall retain ten percent of the original faithful performance security. Developer reserves the right to substitute the form of security, in accordance with the Moreno Valley Municipal Code, at any time during the term of this agreement, subject to approval of the City Engineer and City Attorney.

SECOND: Developer agrees to file with City, prior to the date this Agreement is executed, a good and sufficient improvement security in an amount not less than the estimated cost of the work and improvements for the faithful performance of the terms and conditions of this Agreement, and good and sufficient security for payment of labor and materials in the amount prescribed by City ordinances and regulations to secure the claims to which reference is made in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California. Developer agrees to renew each and every said bond or bonds with good and sufficient sureties or increase the amounts of said bond or bonds, or both, within ten (10) days after being notified by the City Engineer that the sureties or amounts are insufficient. Notwithstanding any other provision herein, if Developer fails to take such action as is

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necessary to comply with said notice, he shall be in default of this Agreement unless all required improvements are completed within ninety (90) days of the date on which the City Engineer notified the Developer of the insufficiency of said bonds. Developer reserves the right to substitute the form of security in accordance with the City's Municipal Code at any time during the term of this agreement, subject to approval by the City Engineer and City Attorney.

THIRD: Developer agrees to pay to the City the actual cost of such inspection of the works and improvements as may be required by the City Engineer. Developer further agrees that, if suit is brought upon this Agreement or any bond guaranteeing the completion of the required improvements, all costs and reasonable expenses and fees incurred by the City in successfully enforcing such obligations shall be paid by Developer and guaranteed by the surety in addition to the face amount of the security, including reasonable attorney's fees, and that, upon entry of judgment, such costs, expenses and fees shall be taxed as costs and included in any judgment rendered.

FOURTH: To the furthest extent allowed by law, including California Civil Code Section 2782, Developer shall indemnify, hold harmless and defend City and each of its officers, officials, employees and agents from any and all claims, losses, liabilities, fines, penalties, forfeitures, costs and damages (whether in contract, tort or strict liability, including, but not limited to personal injury, death at any time and/or property damage) incurred by City or any other Person, and from any and all claims, demands and actions in law or equity (including attorney's fees and litigation expenses), arising or alleged to have arisen directly or indirectly out of the performance of this Agreement, including but not limited to the alleged acts or omissions of any contractor, subcontractor, employee or agent acting on behalf of Developer or the design of any improvements to be constructed pursuant to this Agreement or the use of any patent or patented article in the performance of this Agreement.

Developer's obligations to indemnify and hold City harmless shall apply in all instances except those claims caused by the active negligence, sole negligence, or willful misconduct of City or any of its officers, officials, employees or agents. Developer's obligations to defend the City and provide a legal defense (including the retention of attorneys acceptable to City and all legal costs and expenses) shall apply in all instances, except those claims arising out of the sole negligence or the willful misconduct of City or any of its officers, officials, employees or agents.

If Developer retains any contractor or subcontractor to perform any of the Work to be performed under this Agreement, Developer shall require each contractor or subcontractor to indemnify, hold harmless and defend City and each of its officers, officials, employees and agents in accordance with the terms of the preceding paragraphs.

Developer's obligations under this section shall survive the completion of any work to be performed by Developer, the City's inspection and/or acceptance of any work performed by Developer, as well as the termination or expiration of this Agreement.

Developer's provision of insurance, as required below, does not terminate, alter, limit or satisfy Developer's defense and indemnity obligations provided for herein.

FIFTH: Throughout the life of the Agreement, Developer shall pay for and maintain in full force and effect all policies of insurance required hereunder with an insurance company (ies) either (i) admitted by the California Insurance Commissioner to do business in the State of California and rated not less than "A-VII" in Best's Insurance Rating Guide, or (ii) as authorized by the City Manager or his/her designee. The following policies of insurance are required:

- (i) **COMMERCIAL GENERAL LIABILITY** insurance which shall be at least as broad as the most current version of Insurance Services Office (ISO) Commercial General Liability Coverage Form CG 00

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01 and include insurance for "bodily injury," "property damage" and "personal and advertising injury" with coverage for premises and operations (including the use of owned and non-owned equipment), products and completed operations, and contractual liability (including, without limitation, indemnity obligations under the Contract) with limits of not less than \$1,000,000 per occurrence for bodily injury and property damage, \$1,000,000 per occurrence for personal and advertising injury, \$2,000,000 aggregate for products and completed operations and \$2,000,000 general aggregate.

(ii) COMMERCIAL AUTOMOBILE LIABILITY insurance which shall be at least as broad as the most current version of Insurance Services Office (ISO) form CA 00 01 and shall include coverage for "any auto" with limits of liability of not less than \$1,000,000 per accident for bodily and property damage. Commercial Automobile Liability coverage is required if automobiles are to be operated on city-owned property or within City right-of-way.

(iii) WORKERS' COMPENSATION insurance as required under the California Labor Code.

Developer shall be responsible for payment of any deductibles or self-insured retentions contained in any insurance policies required hereunder.

All policies of insurance required hereunder shall be endorsed to provide that the coverage shall not be cancelled, non-renewed, reduced in coverage or in limits except after thirty (30) calendar day written notice by certified mail, return receipt requested, has been given to the City. Upon issuance by the insurer, broker or agent of a notice of cancellation, non-renewal or reduction in coverage or limits, Developer shall furnish City with a new certificate and applicable endorsements for such policy(ies). In the event any policy(ies) is due to expire before the completion of the work, Developer shall provide a new certificate and all applicable endorsements evidencing renewal of such policy(ies) not less than 15 calendar days prior to the expiration date of the expiring policy(ies).

The General Liability and Automobile Liability insurance policies shall be written on an occurrence form and endorsed to name the City and its officers, officials, employees and agents as additional insured's. Such policy(ies) of insurance shall be endorsed so Developer's insurance shall be primary and no contribution shall be required of City. Any Workers' Compensation insurance policy shall contain a waiver of subrogation as to City, its officers, officials, employees and agents. Developer shall furnish City with the certificate(s) and applicable endorsements for all required insurance fourteen (14) days prior to the start of work. NOTE: A Certificate of Insurance is not acceptable. The Certificate of Insurance must be accompanied by the additional insured and primary insurance endorsements.

If Developer retains any contractor or subcontractor to perform any of the Work to be performed under this Agreement, Developer shall require each contractor or subcontractor to provide insurance protection in favor of City, its officers, officials, employees and agents in accordance with the terms of the Agreement. Any contractor or subcontractor performing work on behalf of Developer shall likewise be required to name City its officers, officials, employees and agents as additional insured's as required herein. Developer shall obtain certificates and endorsements from such contractors or subcontractors before the commencement of any work.

At any time during the Agreement, upon request of City, Developer shall immediately furnish City with a complete copy of any insurance policy required under this Agreement, including all endorsements, with said copy certified by the underwriter to be a true and correct copy of the original policy.

If at any time Developer fails to maintain the required insurance in full force and effect, all work permitted thereunder shall be discontinued immediately until notice is received by City that the required insurance has been restored to full force and effect and that the premiums therefore have been paid for a period satisfactory to City. Any failure by Developer to provide or maintain the required insurance shall be

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considered a material breach of the Agreement.

The fact that insurance is obtained by Developer shall not be deemed to release or diminish its liability, including but not limited to, liability under the indemnity provisions on this Agreement. Developer's duty to defend and indemnify City shall apply to all claims and liabilities, regardless of whether any insurance policies are applicable. The policy limits stated herein do not act as a limitation upon the amount of indemnification required to be provided by Developer.

SIXTH The Developer hereby grants to the City and/or to any authorized agent or employee of the City, the irrevocable permission to enter upon the lands of the above-referenced land division for the purpose of completing the improvements. This permission shall terminate in the event that the Developer has completed the work within the time specified or any extension thereof granted by the City.

SEVENTH: Developer agrees at all times, up to the completion and acceptance of the improvements by the City, to give good and adequate warning to the traveling public of each and every dangerous condition caused by the construction of the improvements, and to protect the traveling public from such defective or dangerous conditions. The Developer shall keep all traveled ways that are a part of, or affected by the construction of this project free and clear of mud, dirt and debris and shall provide twice monthly street sweeping service. A copy of the contract for street sweeping service shall be provided to the City. The Developer's obligation under this provision shall be secured by the bonds securing performance of this Agreement.

EIGHTH: The Developer, his agents and employees, shall give notice to the City Engineer at least 48 hours before beginning any work and shall furnish said City Engineer all reasonable facilities for obtaining full information with respect to the progress and manner of work.

NINETH: If the Developer, or his agents or employees, neglects, refuses, or fails to prosecute the work with such diligence as to insure its completion within the specified time, or within such extensions of time as have been granted by the City, or if the Developer violates, neglects, refuses, or fails to perform satisfactorily any of the provisions of the plans and specifications, he shall be in default of this Agreement and notice in writing of such default shall be served upon him. The City Council shall have the power, on recommendation by the City Engineer, to terminate all rights of the Developer because of such default. The determination by the City Engineer of the question as to whether any of the terms of the Agreement or specifications have been violated, or have not been performed satisfactorily, shall be conclusive upon the Developer, and any and all parties who may have any interest in the Agreement or any portion thereof. The foregoing provisions of this section shall be in addition to all other rights and remedies available to the City under law.

TENTH: It is further agreed by and between the parties hereto, including the surety or sureties on the bonds securing this Agreement that, in the event it is deemed necessary to extend the time of completion of the work contemplated to be done under this Agreement, extensions of time **may** be granted by the City from time to time, either at its own option, or upon request of Developer, and such extensions shall in no way affect the validity of this Agreement or release the surety or sureties on said bonds, Developer further agrees to maintain the aforesaid bonds in full force and effect during the terms of this Agreement, including any extensions of time as may be granted therein.

ELEVENTH: It is understood and agreed by the parties hereto that if any part, term or provision of this Agreement is by the courts held to be unlawful and void, the validity of the remaining portions shall not be affected and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term or provision held to be invalid.

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TWELFTH: In the event legal action is required to enforce the terms of the Agreement, the prevailing party shall be entitled to recover attorney's fees and costs, including expert fees.

THIRTEENTH: Any notice or notices required or permitted to be given pursuant to this Agreement shall be served on the other party by mail, postage prepaid, at the following addresses:

City:

City Engineer
P.O. Box 88005
14177 Frederick Street
Moreno Valley, CA 92552-0805

Developer:

FH II, LLC
8300 Utica Avenue
Suite 300
Rancho Cucamonga, CA 91730

IN WITNESS WHEREOF Developer has affixed his name, address and seal.

Date approved by the City: _____

FH II, LLC:

Developer

By: _____

Signature

James R. Rex

Print/Type Name

Division President

Title

By: _____

Signature

Richard Munkvold

Print/Type Name

CFO

Title

**ATTEST:
CITY CLERK
OF THE CITY OF MORENO VALLEY**

By: _____
City Clerk

(SEAL)

CITY OF MORENO VALLEY

By: _____
Mayor

**APPROVED AS TO FORM:
CITY ATTORNEY**

Date: _____

By: _____
City Attorney

NOTE: TWO SIGNATURES ARE REQUIRED FOR CORPORATIONS UNLESS CORPORATE DOCUMENTS ARE PROVIDED THAT INDICATE OTHERWISE.

SIGNATURES OF DEVELOPER MUST BE EXECUTED IN QUADRUPPLICATE AND THE EXECUTION OF THE ORIGINAL COPY MUST BE ACKNOWLEDGED BEFORE A NOTARY
ORIGINAL - CITY CLERK; PINK - DEVELOPER; GREEN - SURETY; BLUE - PROJECT FILE

M

CITY OF MORENO VALLEY
LAND DEVELOPMENT DIVISION

PROJECT: PA15-0010

MAP / LOT: Tentative Tract No. 36882

DATE: 1/25/2017

IMPROVEMENT TYPESUBTOTALS

STREET PAVEMENT SECTIONS	(Sheet 2 of 13)	\$320,000
OFF-SITE STREET IMPROVEMENTS	(Sheet 3 of 13)	\$391,000
BONDABLE STREET WORK ONLY	(Sheet 4 of 13)	\$43,000
MONUMENTS	(Sheet 4 of 13)	\$0
SPECIAL DISTRICTS	(Sheet 4 of 13)	\$0
MORENO VALLEY UTILITIES	(Sheet 4 of 13)	\$0
TRANSPORTATION IMPROVEMENTS	(Sheet 5 of 13)	\$7,000
TRAFFIC SIGNAL IMPROVEMENTS	(Sheet 5 of 13)	\$0
STORM DRAIN IMPROVEMENTS (City Maintained)	(Sheet 6-7 of 13)	\$231,000
STORM DRAIN IMPROVEMENTS (RCFC Maintained)	(Sheet 8-9 of 13)	\$0
PUBLIC WATER IMPROVEMENTS	(Sheet 12 of 13)	\$211,000
PUBLIC SEWER IMPROVEMENTS	(Sheet 13 of 13)	\$207,000

TOTAL COST (VALUE) OF IMPROVEMENTS = \$1,410,000

+ 40% +20%-CONTINGENCY = ~~\$382,000~~ 564,000GRAND TOTAL = ~~\$1,692,000~~ 1,974,000FAITHFUL PERFORMANCE SECURITY AMOUNT =~~\$1,692,000~~ 1,974,000LABOR & MATERIAL SECURITY AMOUNT =~~\$846,000~~ 987,000

* The cost for securing payment of Labor and Materials is fifty (50) percent of the total cost estimate of the improvements.

ENGINEER OF RECORD STATEMENT OF ESTIMATE WORKSHEET



The construction items and their quantities as shown on the attached worksheet are accurate for the construction of the improvements required to fulfill the Conditions of Approval for this project. The mathematical extensions, using the City of Moreno Valley's Unit Prices, are accurate for determining Bond Amounts and Fees.

Suresh Doddiah Jan 25, 2017

Suresh Doddiah, P.E.

S.D. ENGINEERING & ASSOCIATES

Prepared By

January 25, 2017

Date Prepared

* * * PLEASE READ INSTRUCTIONS BELOW * * *

1. Quantities to be taken from and match exactly to the improvement plans.
2. Bond Amounts are shown to the nearest \$1,000.00 (Rounded Up)
3. For construction items not covered by this worksheet, the Engineer of Record is to provide his opinion of construction cost and use that unit cost. If City of Moreno Valley Unit Prices are determined to be too low in the opinion of the Engineer of Record, the higher cost as provided by the Engineer of Record should be used.

JB

PROJECT: PA15-0010

MAP/LOT: Tentative Tract No. 36882

DATE: 1/25/2017

STREET PAVEMENT SECTIONS

TYPE	QTY	UNIT	UNIT PRICE	TOTAL COST
Enter the pavement section per street (if possible)				
Roadway Excavation	2,480	C.Y.	\$30.00	\$ 74,400
Aggregate Base (A.B.) Class II	0.50 Thickness (ft.)			
	66,973.00 S.F.	2,427 Ton	\$50.00	\$ 121,350
Asphalt Concrete (A.C.)	0.30 Thickness (ft.)			
	66,973.00 S.F.	1,456 Ton	\$85.00	\$ 123,760
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -
Roadway Excavation		0 C.Y.	\$30.00	\$ -
Aggregate Base (A.B.) Class II	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$50.00	\$ -
Asphalt Concrete (A.C.)	0.00 Thickness (ft.)			
	0.00 S.F.	0 Ton	\$85.00	\$ -

JM

SUBTOTAL = \$ 319,510

EXHIBIT "A"
ENGINEER'S ESTIMATE (PUBLIC IMPROVEMENTS)

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PROJECT: PA15-0010

MAP/LOT: Tentative Tract No. 36882

DATE: 1/25/2017

OFF-SITE STREET IMPROVEMENTS

TYPE	QTY	UNIT	UNIT PRICE	TOTAL COST
PAVEMENT				
Grind & Pave Existing Pavement (0.15' deep)	938	S. F.	\$3.25	\$ 3,048.50
Asphalt Concrete (A.C.) Cap / Overlay	0	Ton	\$90.00	\$ -
Slurry Seal (Based on \$150 / Ton Type II)	0	S. Y.	\$3.75	\$ -
Paving Fabric	0	S. Y.	\$1.20	\$ -
Sawcut	438	L. F.	\$4.50	\$ 1,971.00
Utility Trench (per MVSI-132 Series)	0	L. F.	\$17.00	\$ -
Trench Repaving (per MVSI-132 Series)	0	S. F.	\$12.00	\$ -
Redwood Header	0	L. F.	\$6.00	\$ -
Remove Existing Pavement & Base	13,685	S. F.	\$3.00	\$ 41,055.00
Remove Existing Curb & Gutter	20	L. F.	\$12.00	\$ 240.00
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
CONCRETE				
Portland Cement Concrete (P.C.C.) Paving - 6"	0	S. F.	\$6.50	\$ -
Portland Cement Concrete (P.C.C.) Paving - 8"	0	S. F.	\$18.00	\$ -
Curb & Gutter - 6" (per MVSI-120A)	3,515	L. F.	\$25.00	\$ 87,875.00
Curb & Gutter - 8" (per MVSI-120B)	0	L. F.	\$30.00	\$ -
Remove Existing Curb & Gutter	0	L. F.	\$16.00	\$ -
Curb Only - 6" (per MVSI-121A-0)	0	L. F.	\$20.00	\$ -
Curb Only - 8" (per MVSI-121B-0)	0	L. F.	\$25.00	\$ -
Asphalt Concrete (A.C.) Berm/Curb - 6" (per MVSI-124)	0	L. F.	\$12.00	\$ -
Asphalt Concrete (A.C.) Berm/Curb - 8" (per MVSI-124)	0	L. F.	\$15.00	\$ -
Remove Existing Asphalt Concrete (A.C.) Berm/Curb/Dike	0	L. F.	\$3.50	\$ -
Cross Gutter & Spandrel (per MVSI-127)	1,350	S. F.	\$11.00	\$ 14,850.00
Sidewalk (per MVSI-115 Series)	14,005	S. F.	\$6.00	\$ 84,030.00
Remove Existing Sidewalk	0	S. F.	\$6.00	\$ -
Driveway Approach - 6" (per MVSI-111 Series)	41	E A	\$1,680.00	\$ 68,880.00
Driveway Approach - 8" (per MVSI-112 Series)	0	E A	\$2,400.00	\$ -
Remove Existing Driveway	0	S. F.	\$4.00	\$ -
Access (Wheelchair) Ramp - Type 1 (per MVSI-114A)	3	E A	\$2,600.00	\$ 7,800.00
Access (Wheelchair) Ramp - Type 2 (per MVSI-114B)		E A	\$2,750.00	\$ -
Alley Approach - 8" (per MVSI-113)	0	S. F.	\$10.25	\$ -
1/2 Alley Apron	0	S. F.	\$10.25	\$ -
Barricade	0	L. F.	\$100.00	\$ -
Bus Turnout (per MVSI-161)	0	E A	\$15,000.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
MEDIAN				
Sawcut	0	L. F.	\$4.50	\$ -
Remove Existing Pavement & Base	0	S. F.	\$3.00	\$ -
Portland Cement Concrete (P.C.C.) Paving - 8"	0	S. F.	\$18.00	\$ -
Curb Only - 8" (per MVSI-121B-0)	0	L. F.	\$25.00	\$ -
Remove Existing Asphalt Concrete (A.C.) Berm/Curb/Dike	0	L. F.	\$3.50	\$ -
Median Stamped Concrete (per MVSI-142 Series)	0	S. F.	\$14.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
MISCELLANEOUS				
Relocate Power Poles	0	E A	\$30,000.00	\$ -
Chain Link Fence (6' typ.)	0	L. F.	\$16.00	\$ -
Remove Chain Link Fence	0	L. F.	\$8.00	\$ -
Walls - Masonry (6' Maximum)	0	L. F.	\$100.00	\$ -
Walls - Retaining (6' Maximum)	205	L. F.	\$150.00	\$ 30,750.00
Walls - Reinforced P.C.C. Retaining (6' Maximum)	0	C Y	\$780.00	\$ -
Erosion Control	10	A C	\$5,000.00	\$ 50,000.00
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
SUBTOTAL =				\$ 390,499.50

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DATE: 1/25/2017

TYPE	QTY	UNIT	UNIT PRICE	TOTAL COST
BONDABLE STREET WORK ONLY (Inspected Only, not Plan Checked)				
Monuments (per MVSI-170 Series)	0	E A	\$300.00	\$ -
Underground of Utilities (per MVSI-180 thru 183 Series)	0	L F	\$207.00	\$ -
Cluster Mail Boxes (per MVSI-117B)	4	E A	\$4,500.00	\$ 18,000.00
Relocate Mailbox	0	E A	\$350.00	\$ -
Relocate Cluster Mailbox	0	E A	\$1,200.00	\$ -
Street Tree	82	E A	\$300.00	\$ 24,600.00
Street Tree Removal (6" Dia. or Larger)	0	E A	\$500.00	\$ -
Relocate Street Tree	0	E A	\$2,500.00	\$ -
			SUBTOTAL =	\$ 42,600.00

Landscaping & Irrigation - Medians / Parkways / Open Space	0 S. F.	\$6.00	\$ -
--	---------	--------	------

100w HPSV or Equivalent [9,500 Lumens] (per MVLT-400A)	13 E A	\$5,000.00	\$ 65,000.00
200w HPSV or Equivalent [22,000 Lumens] (per MVLT-400B)	0 E A	\$9,500.00	-
250w HPSV or Equivalent	0 E A	\$6,000.00	-
100w LED or Equivalent	0 E A	\$5,000.00	-
145w LED or Equivalent	0 E A	\$5,000.00	-

STREET LIGHT SUBTOTAL = \$ 65,000.00

[illegible]

JB

PROJECT: PA15-0010

MAP/LOT: Tentative Tract No. 36882

DATE: 1/25/2017

TRANSPORTATION IMPROVEMENTS

TYPE	QTY	UNIT	UNIT PRICE	TOTAL COST
Plan checked by Transportation / Inspected by Land Development				
Striping				
4" Painted Broken Stripes	0	L. F.	\$0.90	\$ -
4" Painted Double Solid Stripes	660	L. F.	\$0.90	\$ 594.00
6" Painted Bike Lane Stripes	0	L. F.	\$0.90	\$ -
Painted One-Way (No Passing)	0	L. F.	\$0.90	\$ -
Painted Two-Way Left-Turn Lane	0	L. F.	\$0.90	\$ -
Painted Pavement Markings	0	S. F.	\$2.50	\$ -
4" Thermoplastic Traffic Stripes	0	S. F.	\$4.00	\$ -
8" Thermoplastic Channelizing Line	0	S. F.	\$4.00	\$ -
12" Thermoplastic Crosswalk / Limit Line	36	S. F.	\$4.00	\$ 144.00
Thermoplastic Pavement Markings	0	S. F.	\$4.00	\$ -
Reflective Pavement Markers (RPM's)	0	E A	\$3.75	\$ -
Remove Painted Striping & Pavement Markings	0	S. F.	\$3.00	\$ -
Remove Thermoplastic Striping & Pavement Markings	0	S. F.	\$5.00	\$ -
Remove Reflective Pavement Markers (RPM's)	0	E A	\$2.40	\$ -
Delineator - Class 1 / Type F	0	E A	\$50.00	\$ -
Delineator - Class 2	0	E A	\$75.00	\$ -
Stop Legend	2	E A	\$100.00	\$ 200.00
Edge of Traveled Way	660	L. F.	\$1.00	\$ 660.00
Blue Dot Markers	9	E A	\$100.00	\$ 900.00
			\$0.00	\$ -
			\$0.00	\$ -

Signs				
Street Name Sign w/ Post	4	E A	\$275.00	\$ 1,100.00
Stop Sign w/ Post	2	E A	\$300.00	\$ 600.00
Sign w/ One Post	0	E A	\$300.00	\$ -
Sign w/ Two Post	0	E A	\$400.00	\$ -
Street Sweeping Sign	11	E A	\$200.00	\$ 2,200.00
Object Markers - Type "L" / Type "N"	0	E A	\$100.00	\$ -
Remove Roadside Sign	0	E A	\$100.00	\$ -
Relocate Roadside Sign	0	E A	\$150.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -

Miscellaneous				
Traffic Control (for local streets only)	0	Lump Sum	\$1,000.00	\$ -
Traffic Control (for collector streets only)	0	Lump Sum	\$5,000.00	\$ -
Traffic Control (for arterial streets only)	0	Lump Sum	\$28,000.00	\$ -
Metal Guardrail	0	E A	\$90.00	\$ -
Remove Barricade	0	L. F.	\$25.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -

SUBTOTAL = \$ 6,398.00

Plan checked and inspected by Transportation				
Signals				
New (includes communication conduit, controller, software, initial coordination)	0	E A	\$292,600.00	\$ -
Modification (per corner)	0	E A	\$73,150.00	\$ -
Communication Conduit	0	L. F.	\$30.00	\$ -
Adjust Pull Box to Grade	0	E A	\$800.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -

TRAFFIC SIGNAL SUBTOTAL = \$ -

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PROJECT: PA15-0010

MAP/LOT: Tentative Tract No. 36882

DATE: 1/25/2017

STORM DRAIN IMPROVEMENTS [City Maintained]

TYPE	QTY	UNIT	UNIT PRICE	TOTAL COST
PIPES				
24" Reinforced Concrete (R.C.P.) Pipe	61	L. F.	\$160.00	\$ 9,760.00
30" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$180.00	\$ -
36" Reinforced Concrete (R.C.P.) Pipe	660	L. F.	\$190.00	\$ 125,400.00
39" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$200.00	\$ -
42" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$210.00	\$ -
48" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$250.00	\$ -
54" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$300.00	\$ -
60" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$350.00	\$ -
66" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$375.00	\$ -
72" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$414.00	\$ -
78" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$459.00	\$ -
84" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$505.00	\$ -
90" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$557.00	\$ -
96" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$613.00	\$ -
102" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$671.00	\$ -
108" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$724.00	\$ -
114" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$785.00	\$ -
4" PVC Schedule 40	0	L. F.	\$25.00	\$ -
4" PVC Schedule 80	0	L. F.	\$30.00	\$ -
6" PVC Schedule 40	0	L. F.	\$30.00	\$ -
6" PVC Schedule 80	0	L. F.	\$35.00	\$ -
8" PVC Schedule 40	0	L. F.	\$40.00	\$ -
8" PVC Schedule 80	0	L. F.	\$48.00	\$ -
Reinforced Concrete Structure	0	L. F.	\$530.00	\$ -
8' x 10' Reinforced Concrete Box (R.C.B.)	0	L. F.	\$1,200.00	\$ -
8' x 12' Reinforced Concrete Box (R.C.B.)	0	L. F.	\$1,400.00	\$ -
2 - 4' x 3' Reinforced Concrete Box (R.C.B.)	0	L. F.	\$600.00	\$ -
3 - 4' x 2' Reinforced Concrete Box (R.C.B.)	0	L. F.	\$461.00	\$ -
2 - 72" Reinforced Concrete (R.C.P.) Pipe	0	L. F.	\$840.00	\$ -
Remove Existing Pipe	0	L. F.	\$50.00	\$ -
8" Reinforced Concrete (R.C.P.) Pipe	270	L. F.	\$100.00	\$ 27,000.00
12" Reinforced Concrete (R.C.P.) Pipe	47	L. F.	\$130.00	\$ 6,110.00
			\$0.00	\$ -
			\$0.00	\$ -
MANHOLES				
Manhole No. 1 [per MVFE-320/321 Series / RCFC MH251 - pipes 33" or smaller]	0	E A	\$5,300.00	\$ -
Manhole No. 2 [per MVFE-320/321 Series / RCFC MH252 - pipes 36" or larger]	3	E A	\$6,700.00	\$ 20,100.00
Manhole No. 3 [per MVFE-320/321 Series / RCFC MH253 - all R.C.B.'s]	0	E A	\$5,300.00	\$ -
Manhole No. 4 [per MVFE-320/321 Series / RCFC MH254 - pipes 36" or larger w/ side inlet]	0	E A	\$6,700.00	\$ -
Adjust Manhole (MH) to Grade	0	E A	\$460.00	\$ -
Modify Existing MH	1	E A	\$3,000.00	\$ 3,000.00
			\$0.00	\$ -
CATCH BASINS				
Catch Basin (7') [per MVFE-300 Series]	0	E A	\$5,500.00	\$ -
Catch Basin (10') [per MVFE-300 Series]	2	E A	\$6,000.00	\$ 12,000.00
Catch Basin (14') [per MVFE-300 Series]	0	E A	\$8,000.00	\$ -
Catch Basin (21') [per MVFE-300 Series]	0	E A	\$12,500.00	\$ -
Catch Basin (28') [per MVFE-300 Series]	0	E A	\$16,000.00	\$ -
Local Depression [per MVFE-300A or APWA Std. 313]	0	E A	\$535.00	\$ -
18" x 18" Grated Basin	0	E A	\$2,100.00	\$ -
24" x 24" Grated Basin	0	E A	\$2,500.00	\$ -
Grated Catch Basin	0	E A	\$6,000.00	\$ -
6" Wide Strip Basin	0	E A	\$3,000.00	\$ -
Remove / Relocate Existing Catch Basin	0	E A	\$5,000.00	\$ -
Catch Basin (3.5') [per MVFE-300 Series]	1	E A	\$3,000.00	\$ 3,000.00
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
DRAINS				
Terrace Drain	0	S. F.	\$10.00	\$ -
Down Drain	0	S. F.	\$10.00	\$ -
Parkway Culvert (per MVSI-150A)	3	E A	\$3,500.00	\$ 10,500.00
Sidewalk Outlet (per MVSI-151A)	0	E A	\$1,400.00	\$ -
Curb Drain (per MVSI-152)	0	E A	\$300.00	\$ -
Concrete "V" Ditch	0	S. F.	\$10.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -



DATE: 1/25/2017

SUBTOTAL = \$ 230,570.00

EXHIBIT "A"
ENGINEER'S ESTIMATE (PUBLIC IMPROVEMENTS)

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PROJECT: PA15-0010

MAP/LOT: Tentative Tract No. 36882

DATE: 1/25/2017

STORM DRAIN IMPROVEMENTS [RCFC Maintained]

T Y P E	QTY	UNIT	UNIT PRICE	TOTAL COST
PIPES (RCFC Only)				
36" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$190.00	\$ -
39" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$200.00	\$ -
42" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$210.00	\$ -
48" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$250.00	\$ -
54" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$300.00	\$ -
60" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$350.00	\$ -
66" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$375.00	\$ -
72" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$414.00	\$ -
78" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$459.00	\$ -
84" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$505.00	\$ -
90" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$557.00	\$ -
96" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$613.00	\$ -
102" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$671.00	\$ -
108" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$724.00	\$ -
114" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$785.00	\$ -
Reinforced Concrete Structure		L. F.	\$530.00	\$ -
8' x 10' Reinforced Concrete Box (R.C.B.)		L. F.	\$1,200.00	\$ -
8' x 12' Reinforced Concrete Box (R.C.B.)		L. F.	\$1,400.00	\$ -
2 - 4' x 3' Reinforced Concrete Box (R.C.B.)		L. F.	\$600.00	\$ -
3 - 4' x 2' Reinforced Concrete Box (R.C.B.)		L. F.	\$461.00	\$ -
2 - 72" Reinforced Concrete (R.C.P.) Pipe		L. F.	\$840.00	\$ -
Remove Existing Pipe		L. F.	\$50.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
MANHOLES (RCFC Only)				
Manhole No. 1 [per RCFC Std. MH251 - for pipes 33" or smaller]		E A	\$5,300.00	\$ -
Manhole No. 2 [per RCFC Std. MH252 - for pipes 36" or larger]		E A	\$6,700.00	\$ -
Manhole No. 3 [per RCFC Std. MH253 - for all R.C.B.'s]		E A	\$5,300.00	\$ -
Manhole No. 4 [per RCFC Std. MH254 - for pipes 36" or larger w/ side inlet]		E A	\$6,700.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
CATCH BASINS (RCFC Only)				
Catch Basin (7') [per RCFC Std. CB-100]		E A	\$5,500.00	\$ -
Catch Basin (10') [per RCFC Std. CB-100]		E A	\$6,000.00	\$ -
Catch Basin (14') [per RCFC Std. CB-100]		E A	\$8,000.00	\$ -
Catch Basin (21') [per RCFC Std. CB-100]		E A	\$12,500.00	\$ -
Catch Basin (28') [per RCFC Std. CB-100]		E A	\$16,000.00	\$ -
Local Depression [per RCFC Std. LD201]		E A	\$535.00	\$ -
18" x 18" Grated Basin		E A	\$2,100.00	\$ -
24" x 24" Grated Basin		E A	\$2,500.00	\$ -
Grated Catch Basin		E A	\$6,000.00	\$ -
6" Wide Strip Basin		E A	\$3,000.00	\$ -
Remove / Relocate Existing Catch Basin		E A	\$5,000.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
DRAINS (RCFC Only)				
Terrace Drain		S. F.	\$10.00	\$ -
Down Drain		S. F.	\$10.00	\$ -
Parkway Culvert (per MVSI-150A)		E A	\$3,500.00	\$ -
Sidewalk Outlet (per MVSI-151A)		E A	\$1,400.00	\$ -
Curb Drain (per MVSI-152)		E A	\$300.00	\$ -
Concrete "V" Ditch		S. F.	\$10.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -

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DATE: 1/25/2017

[illegible]

PROJECT: PA15-0010

MAP/LOT: Tentative Tract No. 36882

DATE: 1/25/2017

PUBLIC WATER IMPROVEMENTS

TYPE	QTY	UNIT	UNIT PRICE	TOTAL COST
PIPE				
4" PVC C-900	0	L. F.	\$30.00	\$ -
6" PVC C-900	0	L. F.	\$35.00	\$ -
8" PVC C-900	1,312	L. F.	\$45.00	\$ 59,040.00
12" PVC C-900	660	L. F.	\$65.00	\$ 42,900.00
16" PVC C-900	0	L. F.	\$110.00	\$ -
18" PVC C-900	0	L. F.	\$135.00	\$ -
20" PVC C-900	0	L. F.	\$180.00	\$ -
VALVES				
Gate Valve - 4"	0	EA	\$900.00	\$ -
Gate Valve - 6"	0	EA	\$1,100.00	\$ -
Gate Valve - 8"	3	EA	\$1,500.00	\$ 4,500.00
Gate Valve - 12"	0	EA	\$2,500.00	\$ -
Gate Valve - 16"	0	EA	\$6,270.00	\$ -
Gate Valve - 18"	0	EA	\$15,000.00	\$ -
Butterfly Valve - 4"	0	EA	\$330.00	\$ -
Butterfly Valve - 6"	0	EA	\$520.00	\$ -
Butterfly Valve - 8"	0	EA	\$990.00	\$ -
Butterfly Valve - 12"	0	EA	\$1,800.00	\$ -
Butterfly Valve - 16"	0	EA	\$2,850.00	\$ -
Butterfly Valve - 18"	0	EA	\$3,000.00	\$ -
Butterfly Valve - 20"	0	EA	\$4,500.00	\$ -
Butterfly Valve - 24"	0	EA	\$5,300.00	\$ -
Adjust Water Valve to Grade	0	EA	\$400.00	\$ -
Air Vac Release - 1"	2	EA	\$2,400.00	\$ 4,800.00
Air Vac Release - 2"	0	EA	\$4,000.00	\$ -
Air Vac Release - 4"	0	EA	\$4,500.00	\$ -
Backflow Preventer - 3/4" to 2" (including Pad & Cover)	0	EA	\$4,300.00	\$ -
Backflow Preventer - 2-1/2" to 3" (including Pad & Cover)	0	EA	\$5,300.00	\$ -
Backflow Preventer - 4" to 10" (including Pad & Cover)	0	EA	\$6,450.00	\$ -
Blow Off - 4"	0	EA	\$3,500.00	\$ -
Blow Off - 6"	0	EA	\$4,000.00	\$ -
FIRE HYDRANTS				
6" Standard Fire Hydrants	8	EA	\$4,000.00	\$ 32,000.00
6" Super Fire Hydrants	0	EA	\$4,500.00	\$ -
SERVICE CONNECTIONS				
1" Service Connection	40	EA	\$1,000.00	\$ 40,000.00
1" Service Connection w/ 5/8" Meter	0	EA	\$2,000.00	\$ -
1-1/2" Service Connection	0	EA	\$2,480.00	\$ -
2" Service Connection	0	EA	\$2,780.00	\$ -
4" Service Connection	0	EA	\$4,500.00	\$ -
FITTINGS				
4" Misc. Fittings	0	EA	\$150.00	\$ -
6" Misc. Fittings	0	EA	\$200.00	\$ -
8" Misc. Fittings	7	EA	\$250.00	\$ 1,750.00
10" Misc. Fittings	0	EA	\$280.00	\$ -
12" Misc. Fittings	0	EA	\$750.00	\$ -
WATER METERS				
5/8" Meter	0	EA	\$285.00	\$ -
1" Meter	40	EA	\$377.00	\$ 15,080.00
1-1/2" Meter	0	EA	\$487.00	\$ -
2" Meter	0	EA	\$599.00	\$ -
Adjust Water Meter Box to Grade	0	EA	\$235.00	\$ -
HOT TAP CONNECTIONS				
Hot Tap - 4"	0	EA	\$2,000.00	\$ -
Hot Tap - 6"	4	EA	\$2,500.00	\$ 10,000.00
Hot Tap - 8"	0	EA	\$3,000.00	\$ -
Hot Tap - 12"	0	EA	\$4,500.00	\$ -
Hot Tap Service Clamp	0	EA	\$2,000.00	\$ -
Water Service	0	EA	\$330.00	\$ -
MISCELLANEOUS				
Thrust Block	0	C. Y.	\$150.00	\$ -
Jack & Bore	0	L. F.	\$500.00	\$ -
8" Joint at Existing	0	EA	\$2,500.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -
			\$0.00	\$ -

SUBTOTAL = 210,070.00

2

DATE: 1/25/2017

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