

Kingston Safe Routes to Schools Infrastructure Improvements

P.I.N. 8761.09

July 22, 2015, 6:30 PM

City of Kingston, New York



GPI Greenman-Pedersen, Inc.

Engineering and Construction Services
www.gpinet.com

Key Personnel

CITY OF KINGSTON:



Shayne Gallo, Mayor

Ralph Swenson PE, City Engineer

Steve Noble, Safe Routes to School Coord.

GREENMAN-PEDERSEN, INC.:



Mike Wieszchowski PE, PTOE

NEW YORK STATE DEPARTMENT OF TRANSPORTATION



Martin Evans PE

Presentation Agenda

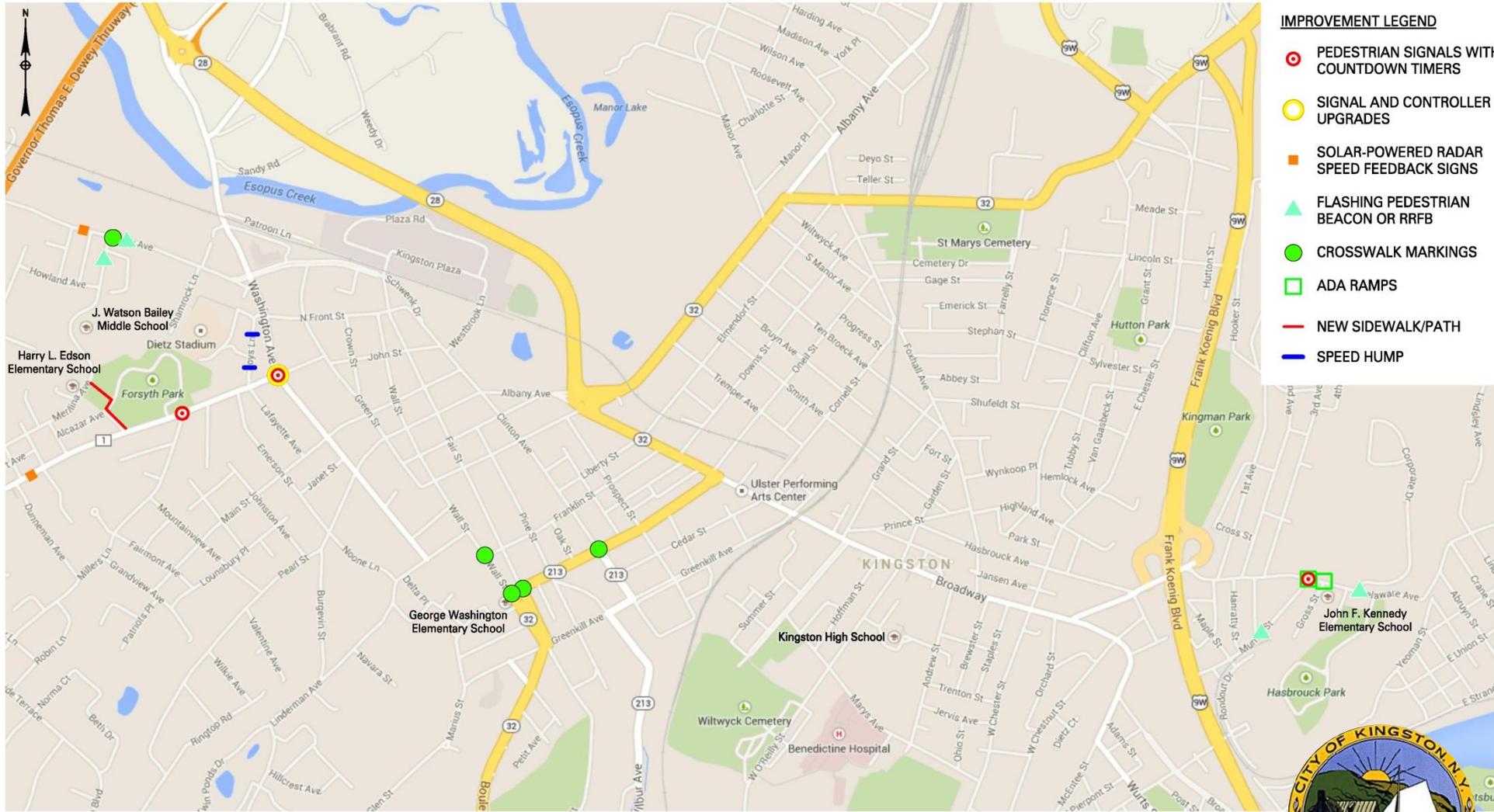
- Background
- Project Locations
- Preliminary Design Effort
- Existing Conditions/Needs
- Design Alternatives
- Estimated Costs
- Process / Next Steps
- Questions

Background

- 2012 Grant Application Submitted by City to Obtain Safe Routes to School Funds
- Improve Walkability and Bike Routes for Children to Promote Safety & Health.
- \$489k Approved in Federal Fund.
(for Design, Construction & Inspection)
- Design Began December 2014.



Project Locations



Preliminary Design Effort

- Field Sketches and Land Surveys
- Traffic Counts & Speed Assessments
- Environmental Screenings
- Developed Design Alternatives
- Submitted Draft Design Report



Preliminary Design Effort

Environmental Assessments:

- NEPA Assessment (Class II Categorical Exclusion)
- SEQR Assessment (Type II Action)
- Endangered Species Assessment
- Section 106 Historic Impact Assessment

Preliminary Design Effort

Design Alternatives Considered:

Alternative 1 – No Build (Null Option)

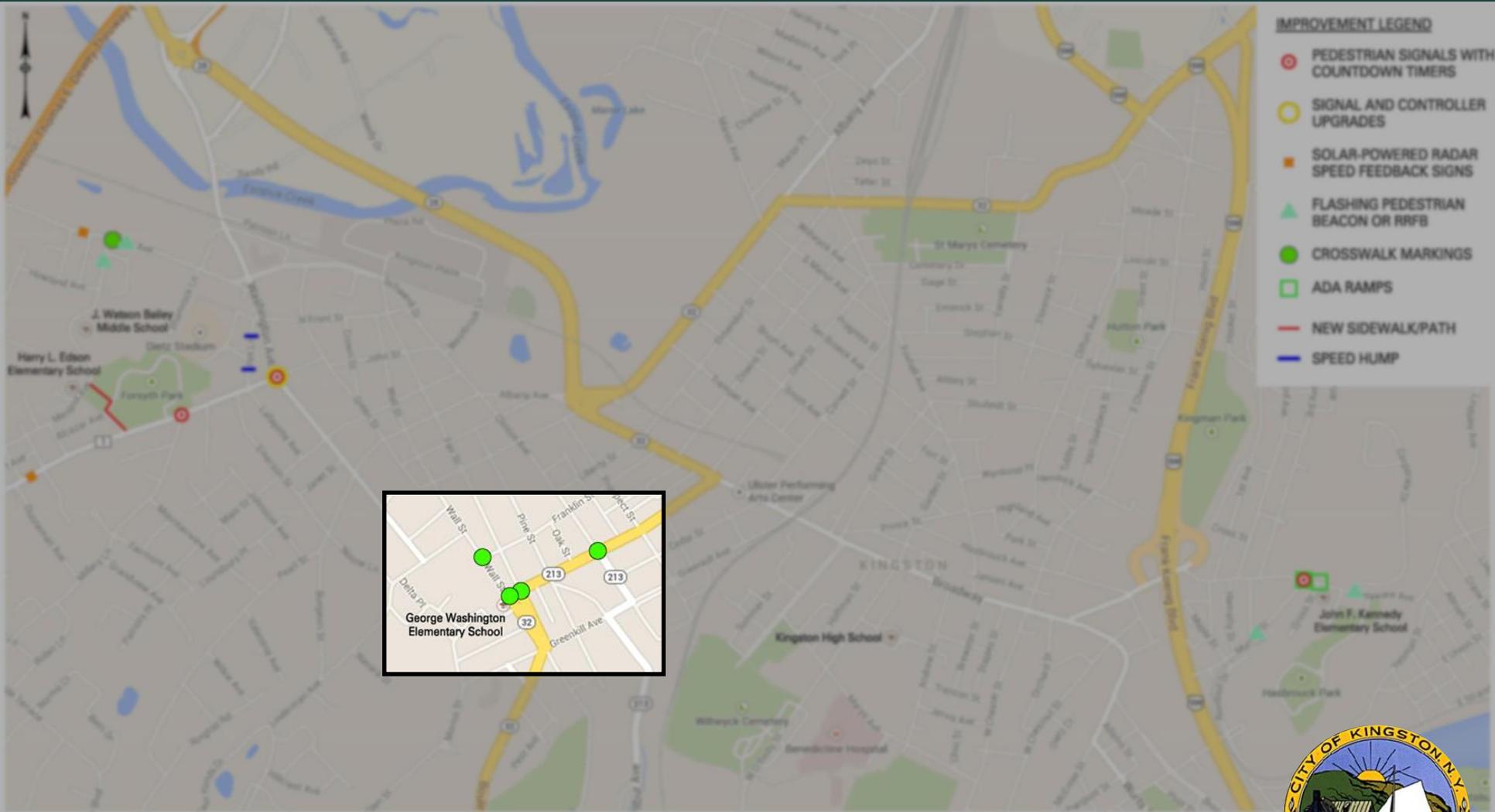
Alternative 2 – Element Specific Highway Improvement

Option 2a – Construct Burhans Blvd sidewalk within existing roadway footprint.

Option 2b – Construct Burhans Blvd sidewalk outside existing roadway footprint.



Existing Conditions/Needs

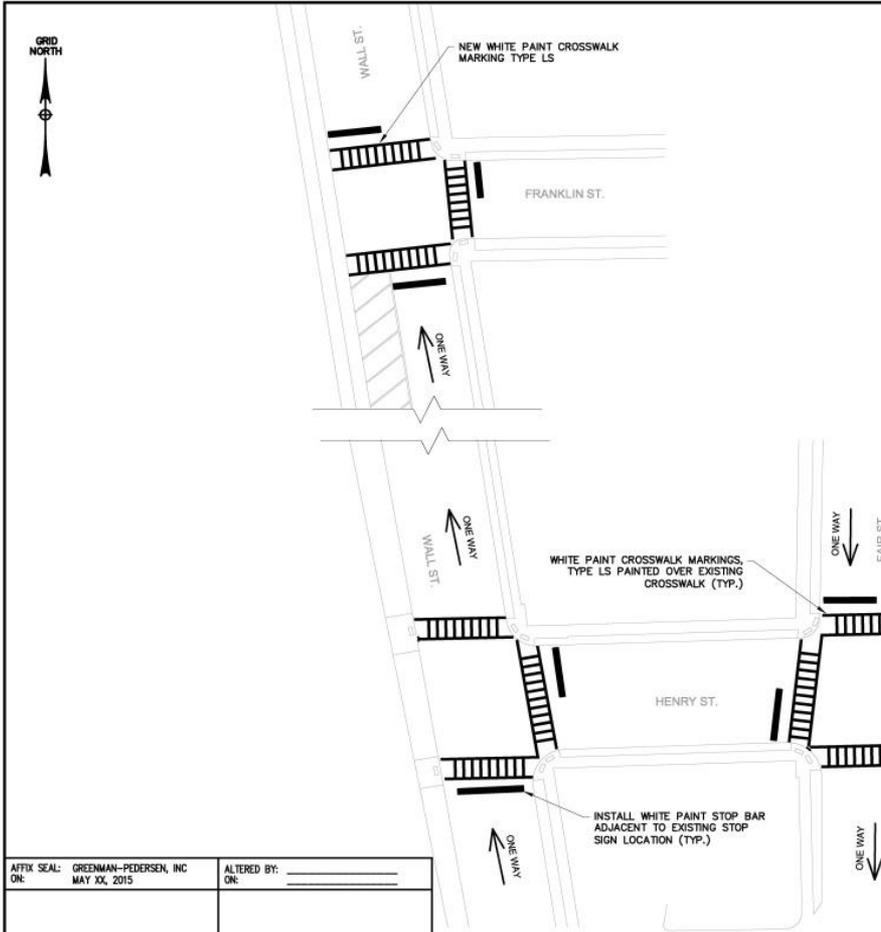


Existing Conditions/Needs

George Washington School



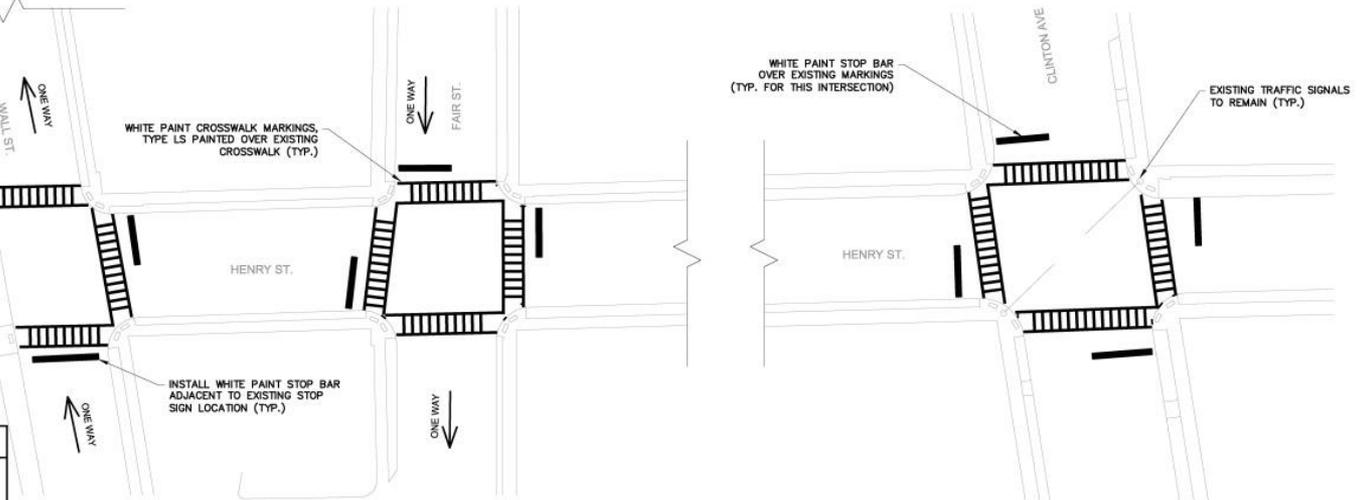
Design Alternatives



GPI
 GREENMAN-PEDERSEN, INC.
 CONSULTING ENGINEERS

AFFIX SEAL: GREENMAN-PEDERSEN, INC
 ON: MAY XX, 2015

ALTERED BY: _____
 ON: _____



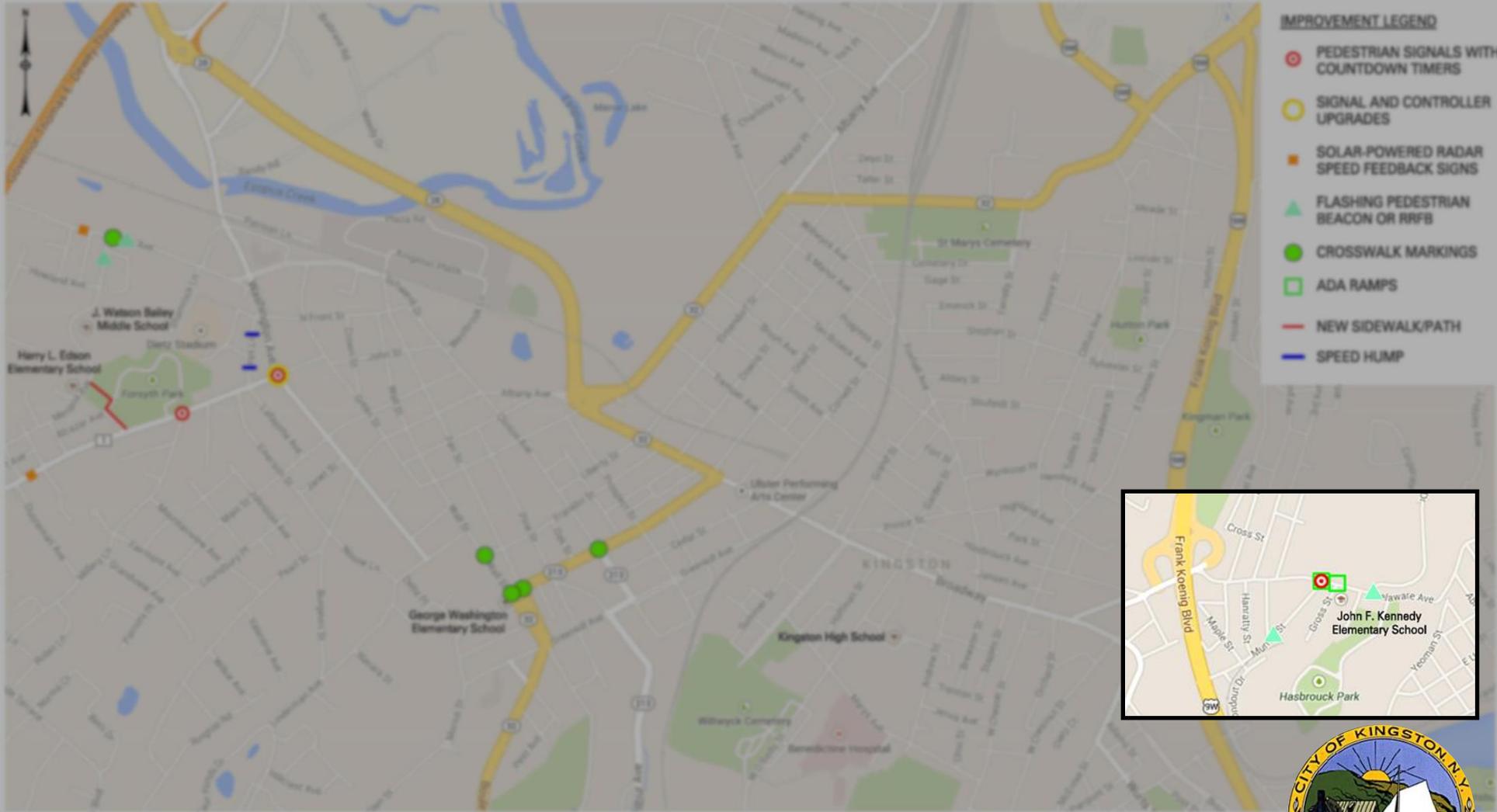
| | | | | | | |
|---|---------------------------------|----------------|---------|----------|---|-----------------------------|
| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | KINGSTON SAFE ROUTES TO SCHOOLS | PN 8761.09 | BRIDGES | CULVERTS | ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED | CONTRACT NUMBER CK2014-4 |
| | CITY OF KINGSTON | | | | GENERAL PLANS WASHINGTON ELEMENTARY SCHOOL | DRAWING NO. GNP-3 |
| | COUNTY: ULSTER | DATE: MAY 2015 | | | | SHEET NO. X OF XX |

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DOCUMENT NAME: 8761.09_cph_gnp-1

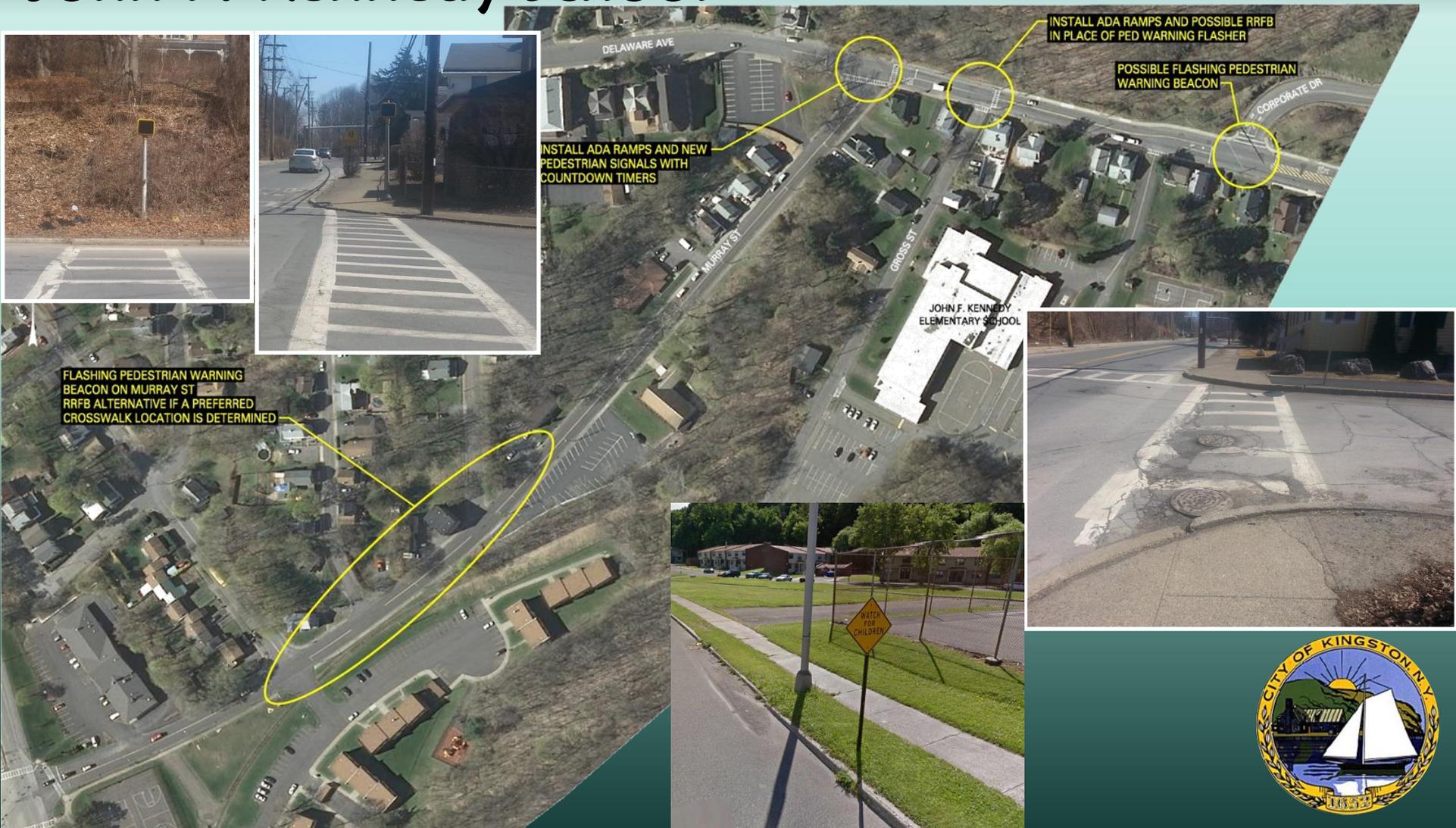
FILE NAME = _____
 DATE/TIME = _____
 DESIGN SUPERVISOR M. WESZCHORSKI
 JOB MANAGER P. FAITH
 DESIGN M. WESZCHORSKI
 CHECK P. FAITH
 DRAFTING E. COBB
 CHECK M. WESZCHORSKI
 PROJECT MANAGER P. FAITH

Existing Conditions/Needs

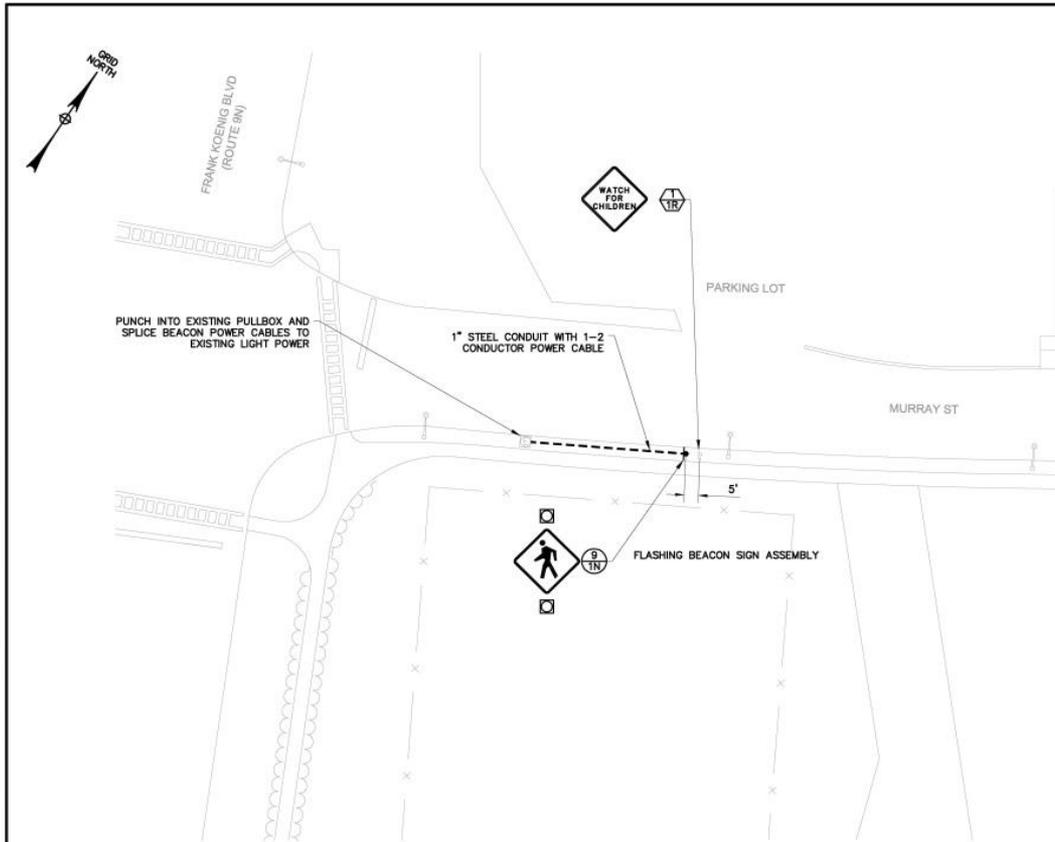


Existing Conditions/Needs

John F. Kennedy School



Design Alternatives



PROJECT MANAGER: P. FAITH
 CHECK: M. WESZCHORSKI
 DRAFTING: E. COBB
 CHECK: P. FAITH
 DESIGN: M. WESZCHORSKI
 JOB MANAGER: P. FAITH
 DESIGN SUPERVISOR: M. WESZCHORSKI

AFFIX SEAL: GREENMAN-PEDERSEN, INC
 ON: MAY XX, 2015

ALTERED BY: _____
 ON: _____

- NOTES:
- THIS PLAN IS A FIELD SKETCH AND IS NOT TO SCALE. IT DOES NOT SHOW ALL UTILITY AND SIGN LOCATIONS AND SHALL BE USED ONLY AS A GUIDE FOR DEVICE PLACEMENT. THE CONTRACTOR SHALL FIELD VERIFY AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGING THESE OR OTHER FACILITIES DURING CONSTRUCTION.
 - SIGNS NOT SHOWN SHALL REMAIN IN PLACE

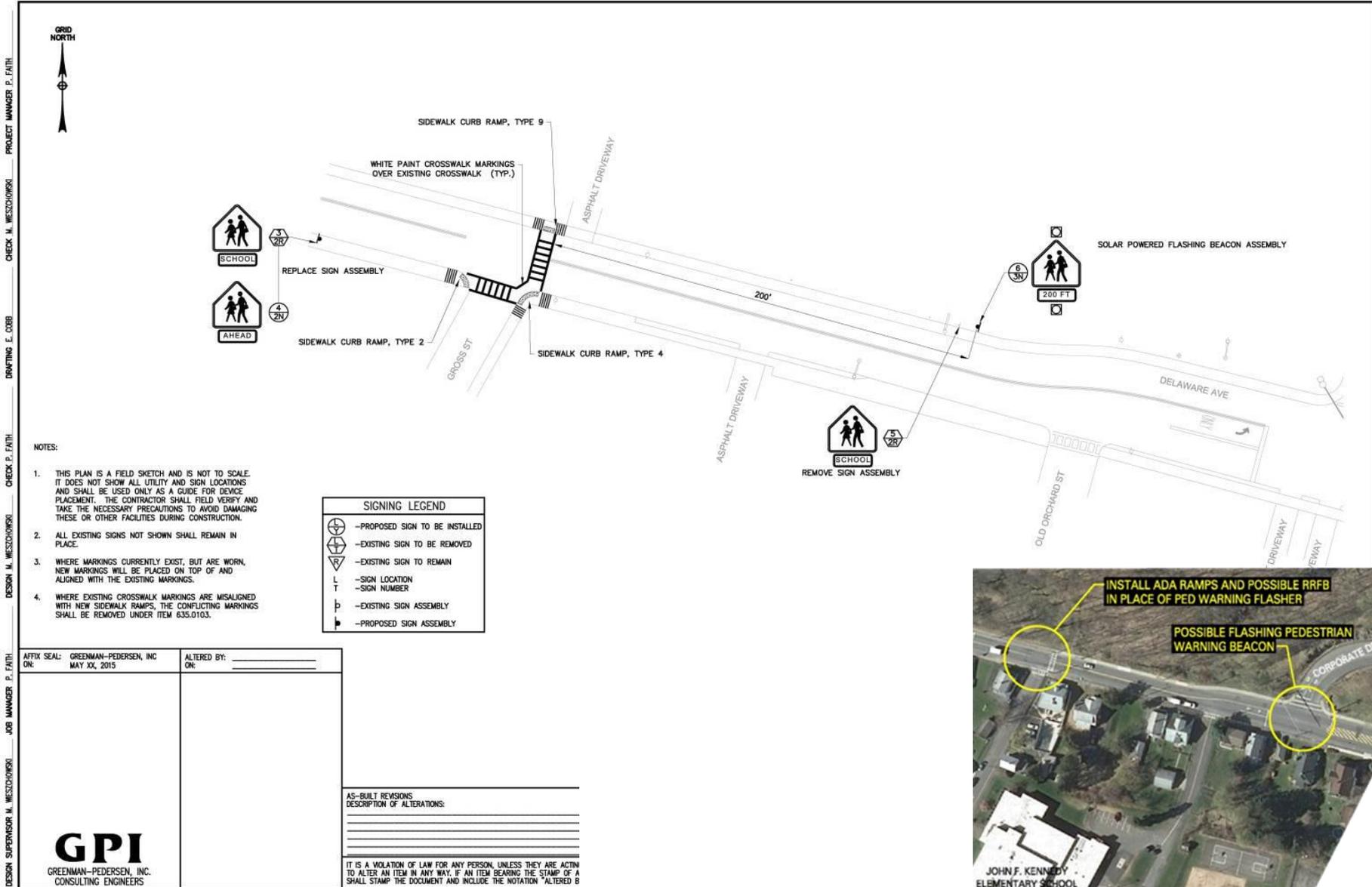
| SIGNING LEGEND | |
|----------------|--------------------------------|
| | -PROPOSED SIGN TO BE INSTALLED |
| | -EXISTING SIGN TO BE REMOVED |
| | -EXISTING SIGN TO REMAIN |
| | -SIGN LOCATION |
| | -SIGN NUMBER |
| | -EXISTING SIGN ASSEMBLY |
| | -PROPOSED SIGN ASSEMBLY |



| | | | | | | |
|---|---------------------------------|----------------|---------|----------|---|-----------------------------|
| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | KINGSTON SAFE ROUTES TO SCHOOLS | PN 8761.09 | BRIDGES | CULVERTS | ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED | CONTRACT NUMBER CK2014-4 |
| | CITY OF KINGSTON | | | | GENERAL PLANS MURRAY ST | DRAWING NO. GNP-4 |
| | COUNTY: ULSTER | DATE: MAY 2015 | | | | SHEET NO. X OF XX |

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Design Alternatives



- NOTES:
1. THIS PLAN IS A FIELD SKETCH AND IS NOT TO SCALE. IT DOES NOT SHOW ALL UTILITY AND SIGN LOCATIONS AND SHALL BE USED ONLY AS A GUIDE FOR DEVICE PLACEMENT. THE CONTRACTOR SHALL FIELD VERIFY AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGING THESE OR OTHER FACILITIES DURING CONSTRUCTION.
 2. ALL EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
 3. WHERE MARKINGS CURRENTLY EXIST, BUT ARE WORN, NEW MARKINGS WILL BE PLACED ON TOP OF AND ALIGNED WITH THE EXISTING MARKINGS.
 4. WHERE EXISTING CROSSWALK MARKINGS ARE MISALIGNED WITH NEW SIDEWALK RAMP, THE CONFLICTING MARKINGS SHALL BE REMOVED UNDER ITEM 635.0103.

| SIGNING LEGEND | |
|----------------|--------------------------------|
| | -PROPOSED SIGN TO BE INSTALLED |
| | -EXISTING SIGN TO BE REMOVED |
| | -EXISTING SIGN TO REMAIN |
| | -SIGN LOCATION |
| | -SIGN NUMBER |
| | -EXISTING SIGN ASSEMBLY |
| | -PROPOSED SIGN ASSEMBLY |

AFFIX SEAL: GREENMAN-PEDERSEN, INC
 ON: MAY XX, 2015

ALTERED BY: _____
 ON: _____

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A SMALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY"



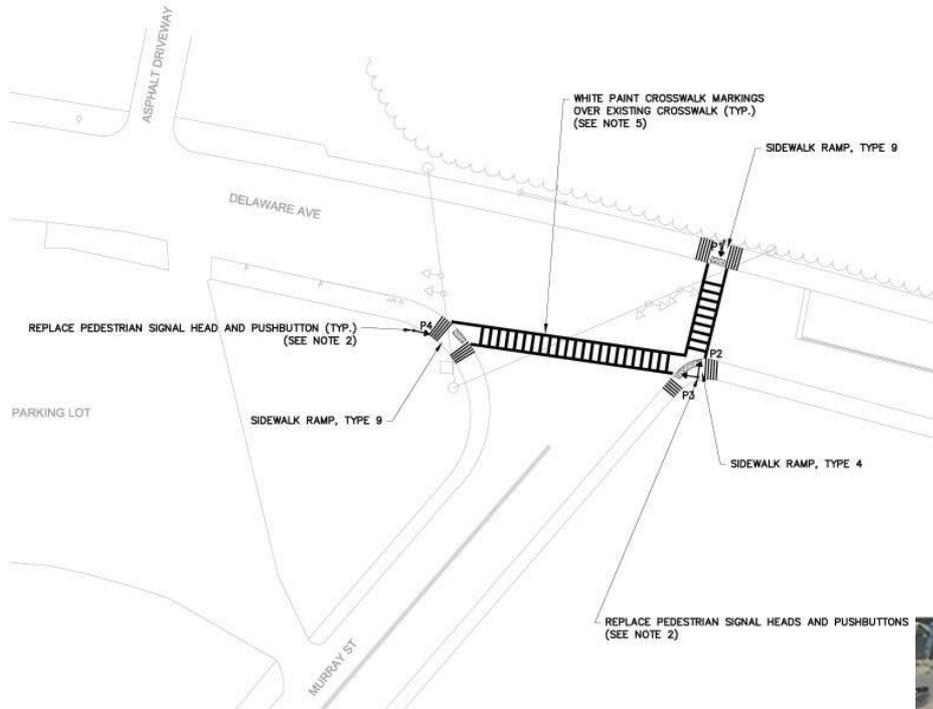
FILE NAME =
 DATE/TIME =

DESIGN SUPERVISOR M. WIESZCZORSKI JOB MANAGER P. FAITH
 DESIGN M. WIESZCZORSKI CHECK P. FAITH
 DRAFTING L. COBB CHECK M. WIESZCZORSKI PROJECT MANAGER P. FAITH



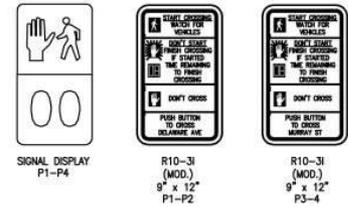
Design Alternatives

FILE NAME: DATE/TIME: DESIGN SUPERVISOR M. WESZCHORSKI JOB MANAGER P. FAITH DESIGN M. WESZCHORSKI CHECK P. FAITH DRAFTING E. COBB CHECK M. WESZCHORSKI PROJECT MANAGER P. FAITH



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 2. EXISTING PEDESTRIAN HEADS AND PUSHBUTTONS SHALL BE REMOVED AND REPLACED AS DESIGNATED ON THE PLAN. NEW EQUIPMENT SHALL BE PLACED ON EXISTING SIGNAL POLES AND CONNECTED TO THE EXISTING SIGNAL CABLES PRIOR TO INSTALLATION AND REPLACE EACH INOPERABLE CABLE WITH 1-5 CONDUCTOR SIGNAL CABLE (ITEM 680.730514). THE FULL LENGTH BETWEEN THE PEDESTRIAN HEAD AND CONTROLLER, NO SPlicing SHALL BE ALLOWED.
 3. THE CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES TO THE CONTROLLER TO ACCOMMODATE THE NEW PEDESTRIAN SIGNALS. COAST TO BE PAID FOR UNDER ITEM 680.78000001.
 4. EXISTING SIGNAL PHASING SHALL REMAIN IN PLACE WITH NO CHANGE.
 5. WHERE EXISTING CROSSWALK MARKINGS ARE MISALIGNED WITH NEW SIDEWALK RAMP, THE CONFLICTING MARKINGS SHALL BE REMOVED UNDER ITEM 635.0103.

PEDESTRIAN SIGNAL DETAILS



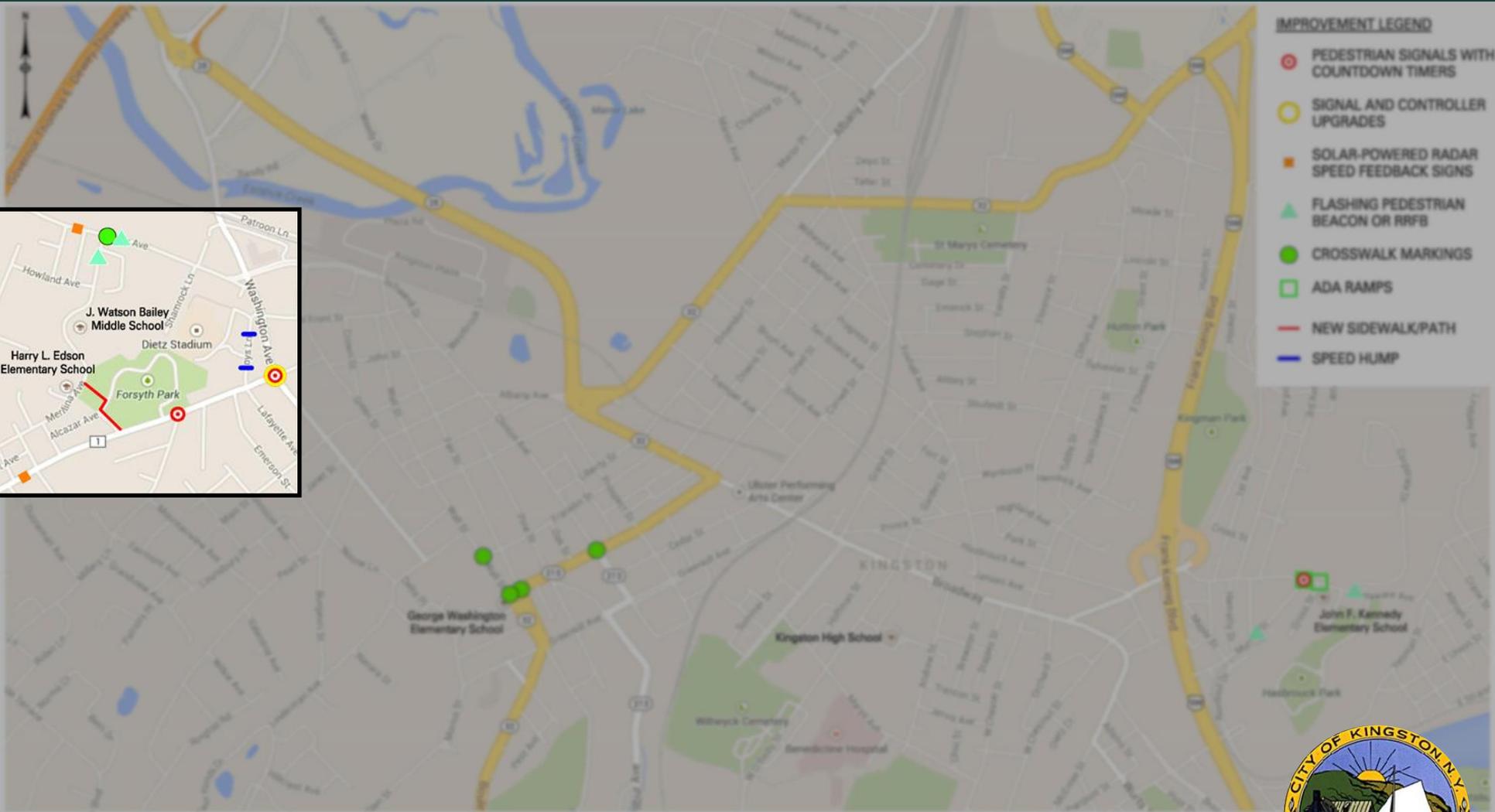
AFFIX SEAL: GREENMAN-PEDERSEN, INC OR: MAY XX, 2015
 ALTERED BY: _____ OR: _____

| | | | |
|-----------------------------|---------------------------------|----------------|------|
| AS-BUILT REVISIONS | KINGSTON SAFE ROUTES TO SCHOOLS | PIN 8761.09 | BROG |
| DESCRIPTION OF ALTERATIONS: | | | |
| | CITY OF KINGSTON | | |
| | COUNTY: ULSTER | DATE: MAY 2015 | |

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Existing Conditions/Needs



Preliminary Design Effort

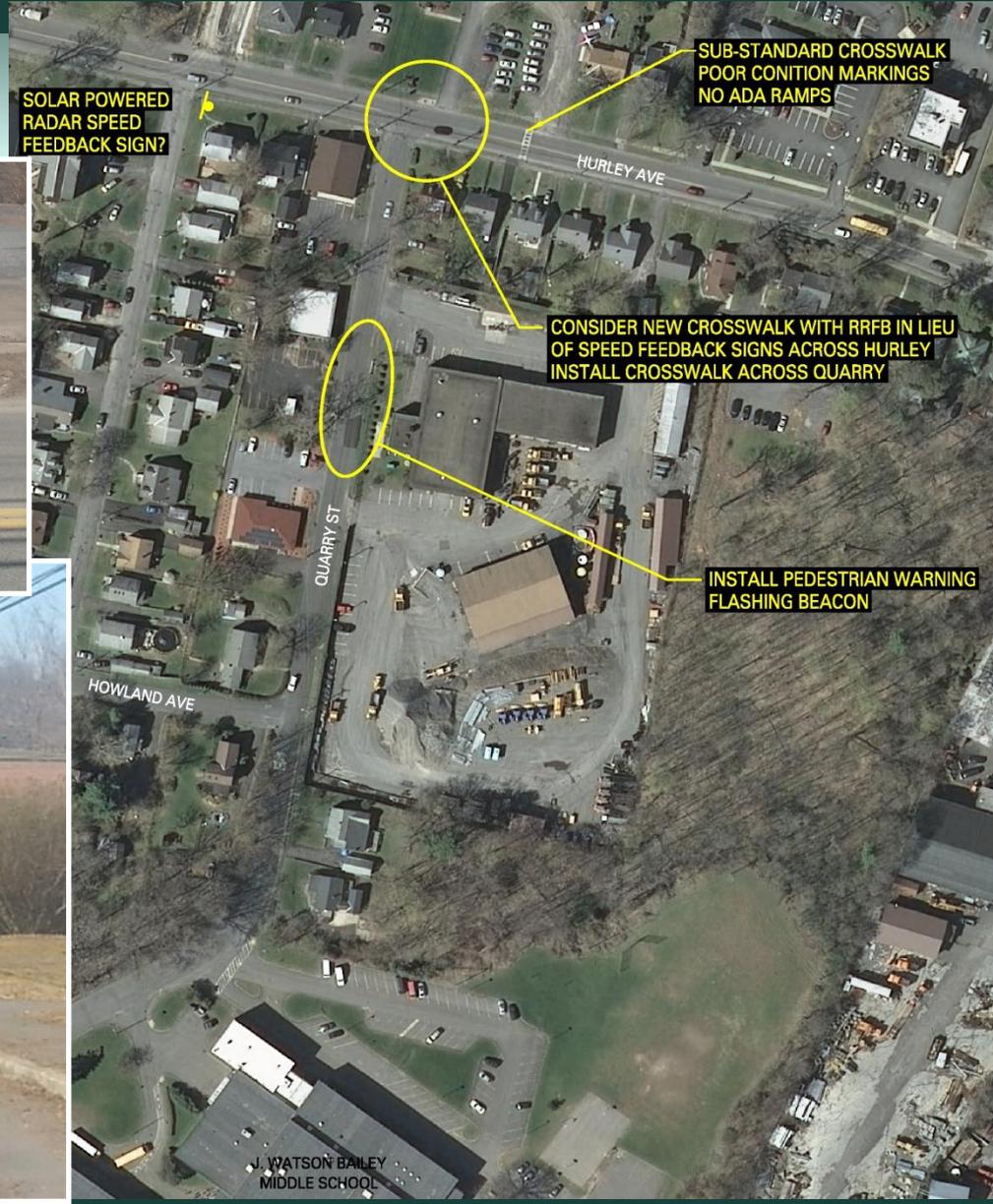
Speed Assessments:

| Location | Direction of Travel | Posted Speed | 85 th % Speed | Difference |
|-------------|---------------------|--------------|--------------------------|------------|
| Hurley Ave | Eastbound | 30 mph | 40 mph | +10 mph |
| | Westbound | 30 mph | 35 mph | +5 mph |
| Joys Lane * | Northbound | 30 mph | 31 mph | +1 mph |
| | Southbound | 30 mph | 31 mph | +1 mph |
| Lucas Ave | Eastbound | 30 mph | 36 mph | +6 mph |

* Observations identified a significant number of “Cut-Through” Vehicles.

Existing Conditions/Needs

Bailey Middle School

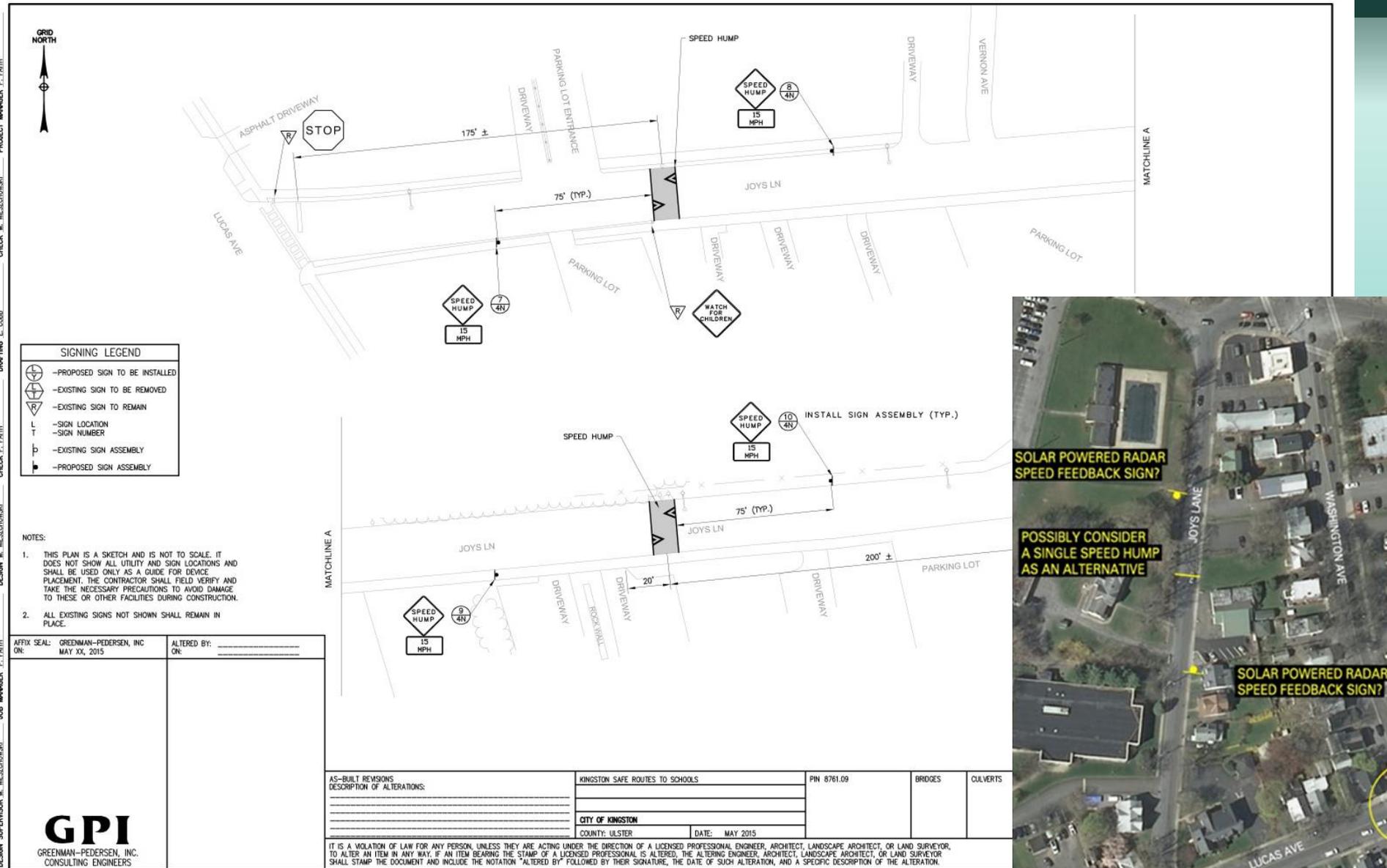


Existing Conditions/Needs

Dietz Stadium Area

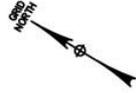


Design Alternatives



DESIGN SUPERVISOR: M. WIESZCHORSKI
 JOB MANAGER: P. FAITH
 CHECK: P. FAITH
 DRAFTING: E. COBB
 CHECK: M. WIESZCHORSKI
 PROJECT MANAGER: P. FAITH

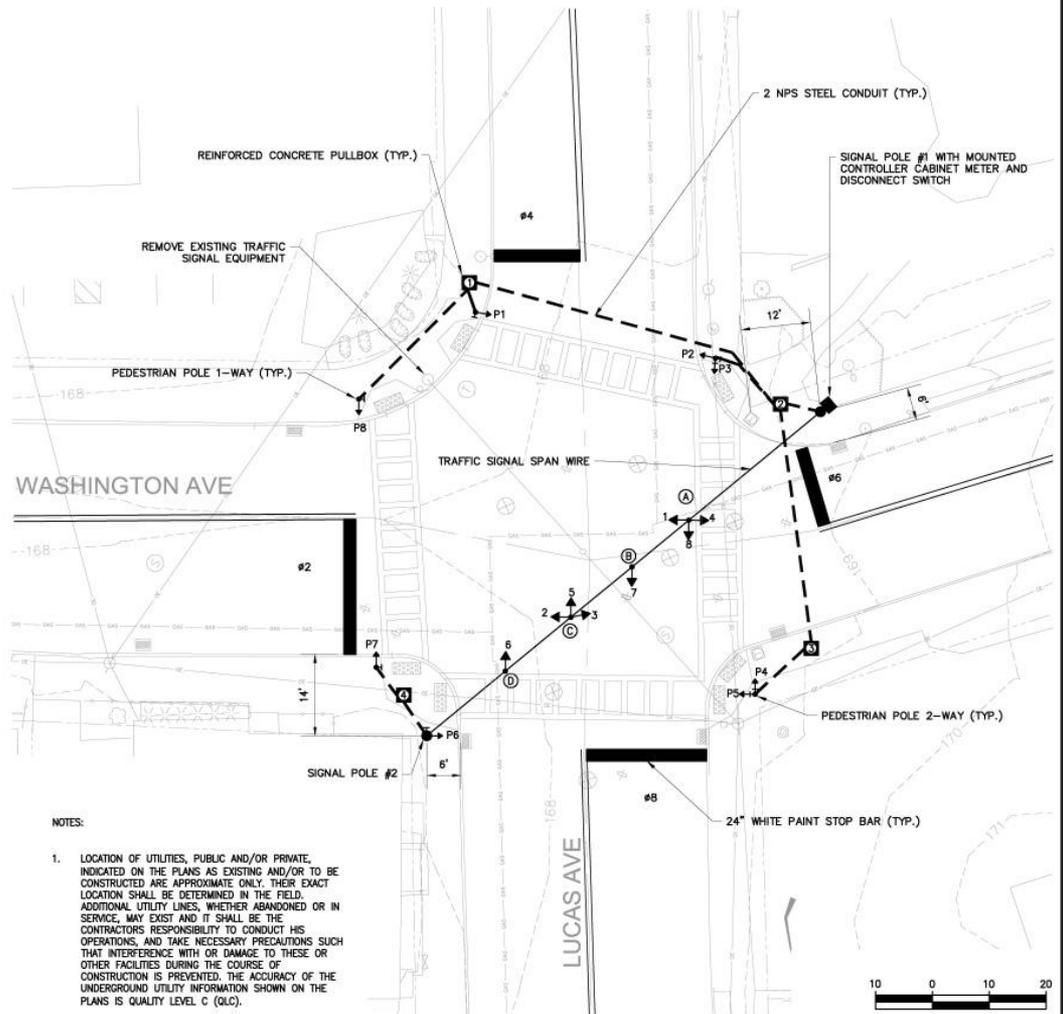
Design Alternatives



| SIGNS TO BE INSTALLED | | | | | |
|-----------------------|-----------------|-----------|--------------|--------------|---------------------|
| ITEM NUMBER | LOCATION NUMBER | SIGN TEXT | SIZE OF SIGN | MUTCD NUMBER | TYPE OF MOUNT |
| 680.8225 | P3,P4,P7,P8 | | 9" X 12" | R10-3E | SIGNAL POLE MOUNTED |
| 680.8225 | P1,P2,P5,P6 | | 9" X 12" | R10-3E | SIGNAL POLE MOUNTED |

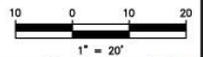
| TABLE OF OPERATIONS | | | | | | | | | | | | |
|---------------------------------|-------|----|----|----|----|----|----|----|-------|-------|-------|-------|
| PHASE(S) | FACES | | | | | | | | P1/P2 | P3/P4 | P5/P6 | P7/P8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| #2 | G | G | R | R | R | R | R | R | | | | |
| #6 | R | R | G | G | R | R | R | R | | | | |
| #2 + #6 | G | G | G | G | R | R | R | R | | | | |
| #4 | R | R | R | R | G | G | R | R | | | | |
| #8 | R | R | R | R | R | R | G | G | | | | |
| #4 + #8 | R | R | R | R | G | G | G | G | | | | |
| FLASH | FR | FR | FR | FR | FR | FR | FR | FR | DARK | DARK | DARK | DARK |
| DISPLAY | | | | | | | | | | | | |
| ALL LENSES SHALL BE 12" IN DIA. | | | | | | | | | | | | |

| TO | FROM | | | |
|----|------|-----|-----|-----|
| | R | G | | |
| R | R | Y | --- | --- |
| G | R | G | --- | --- |
| | --- | --- | | |
| | --- | --- | | |



NOTES:

- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED ON THE PLANS AS EXISTING AND/OR TO BE CONSTRUCTED ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONDUCT HIS OPERATIONS, AND TAKE NECESSARY PRECAUTIONS SUCH THAT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION IS PREVENTED. THE ACCURACY OF THE UNDERGROUND UTILITY INFORMATION SHOWN ON THE PLANS IS QUALITY LEVEL C (QLC).



DESIGN SUPERVISOR M. WESZCHORSKI
 JOB MANAGER P. FAITH
 DESIGN M. WESZCHORSKI
 CHECK P. FAITH
 DRAFTING E. COBB
 CHECK M. WESZCHORSKI
 PROJECT MANAGER P. FAITH

AFFIX SEAL: GREENMAN-PEDERSEN, INC
 ON: MAY XX, 2015
 ALTERED BY: _____
 ON: _____

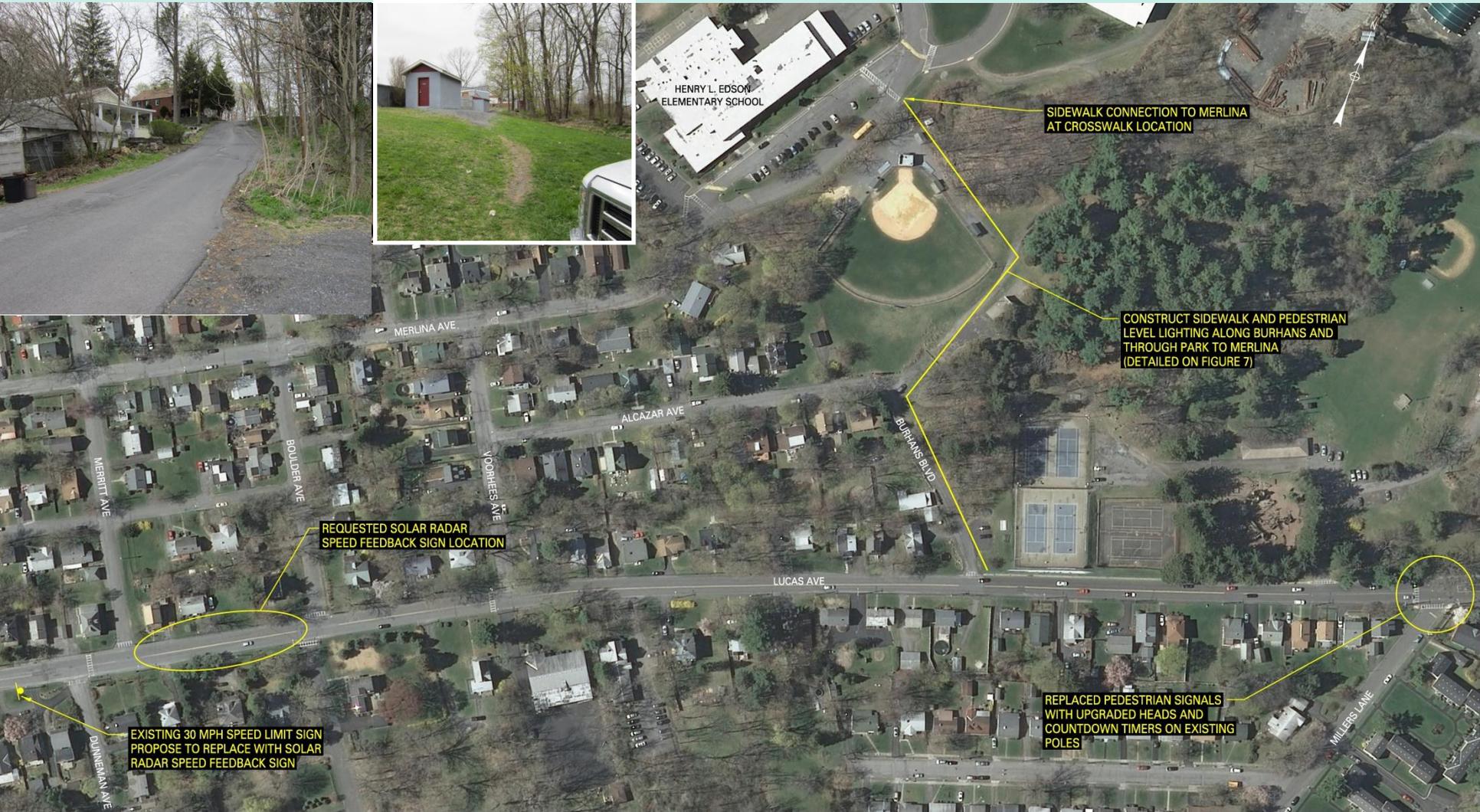


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| | CITY OF KINGSTON | | | | TRAFFIC SIGNAL PLANS WASHINGTON AVE & LUCAS AVE | DRAWING NO. TSP-3 |
| | COUNTY: ULSTER | DATE: MAY 2015 | | | | SHEET NO. X OF XX |

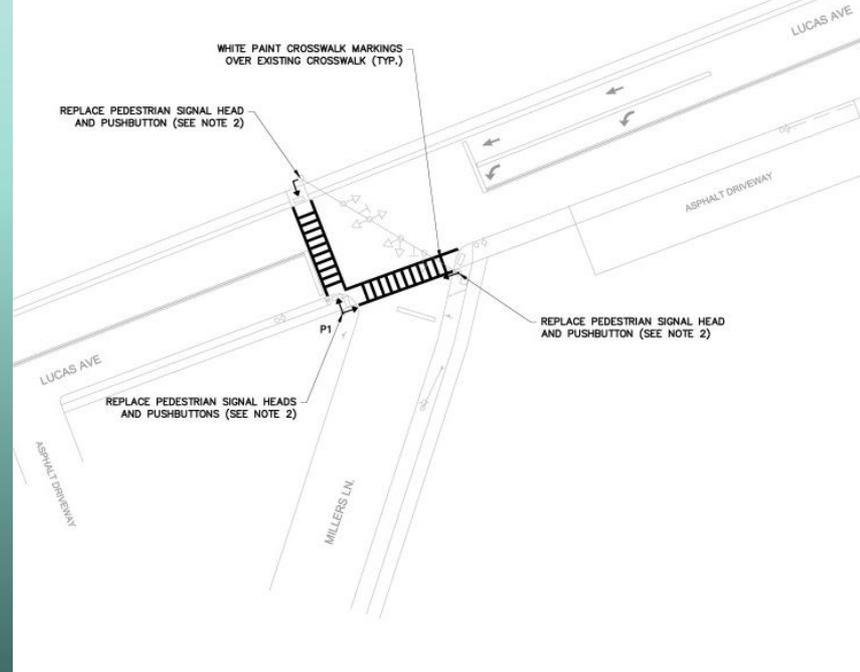
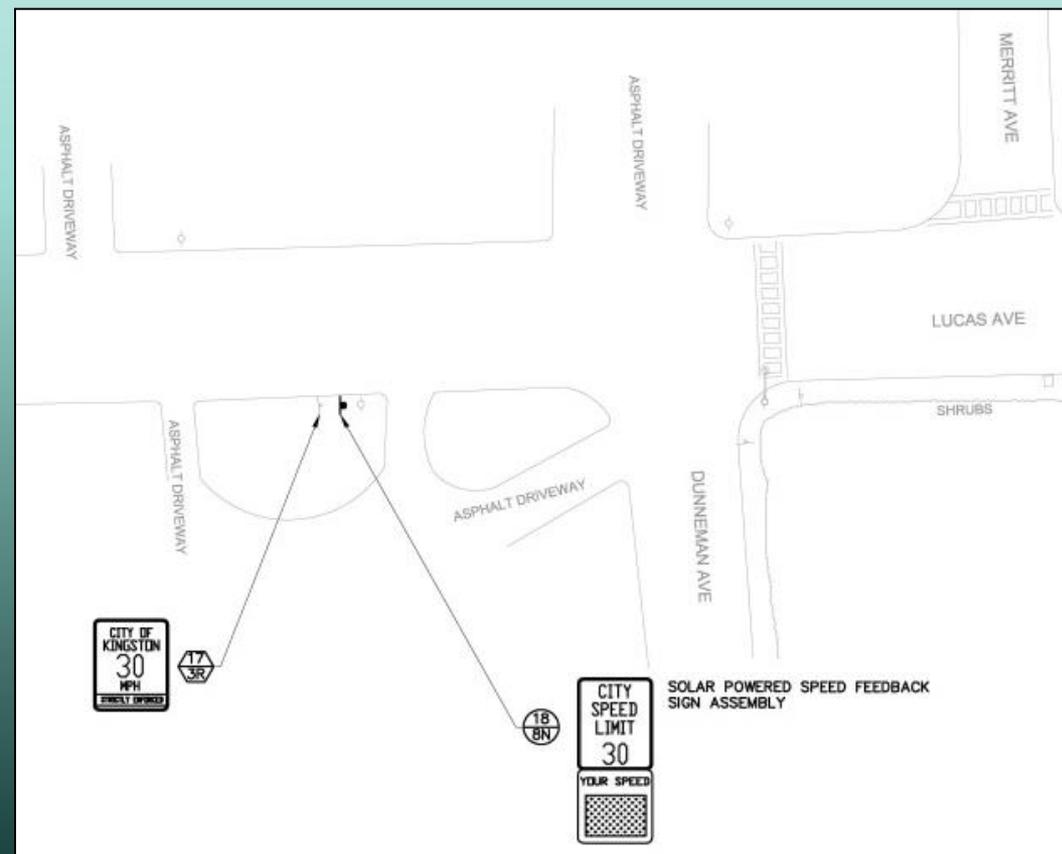
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Existing Conditions/Needs

Edson Elementary School



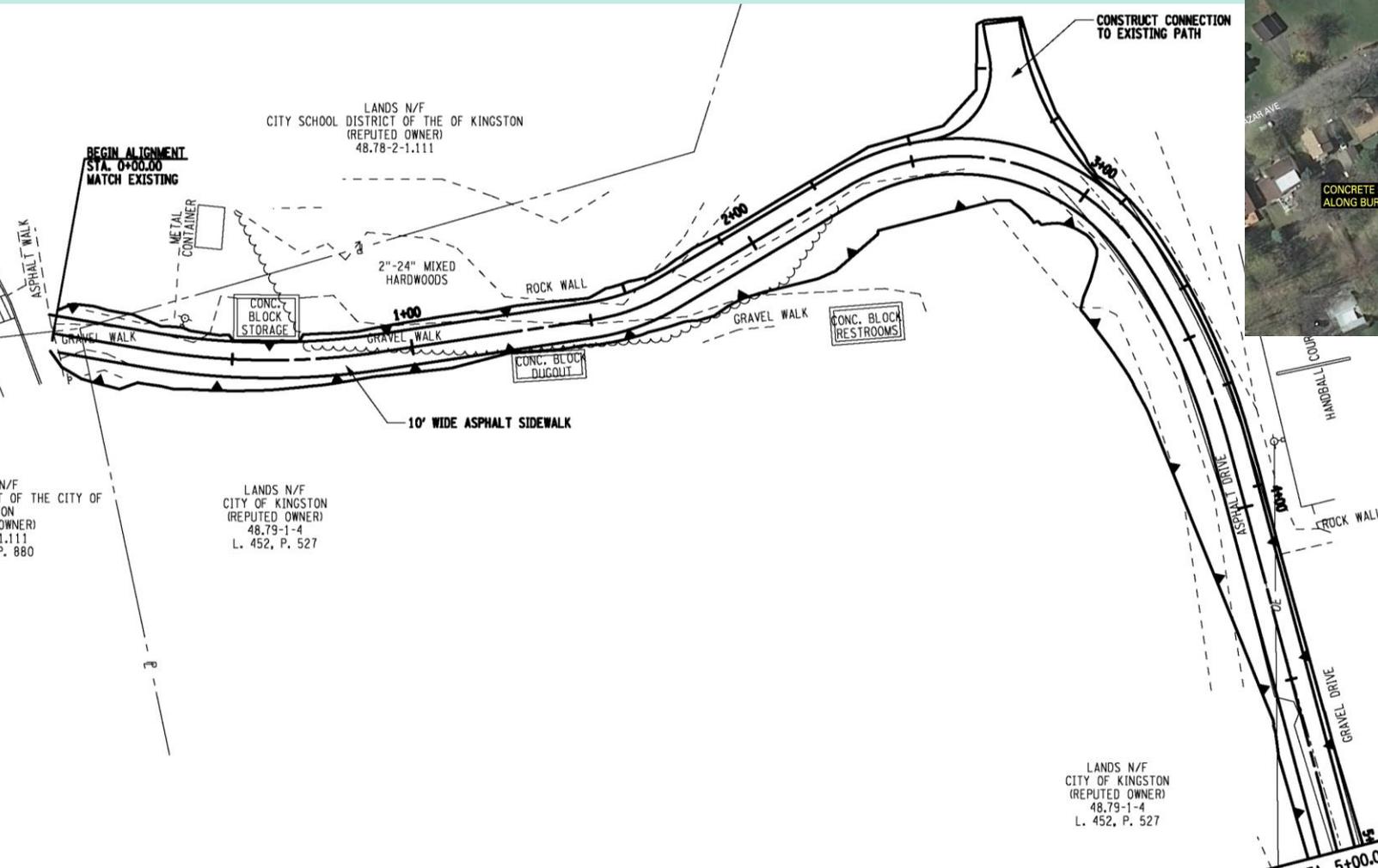
Design Alternatives



PEDESTRIAN SIGNAL DETAILS

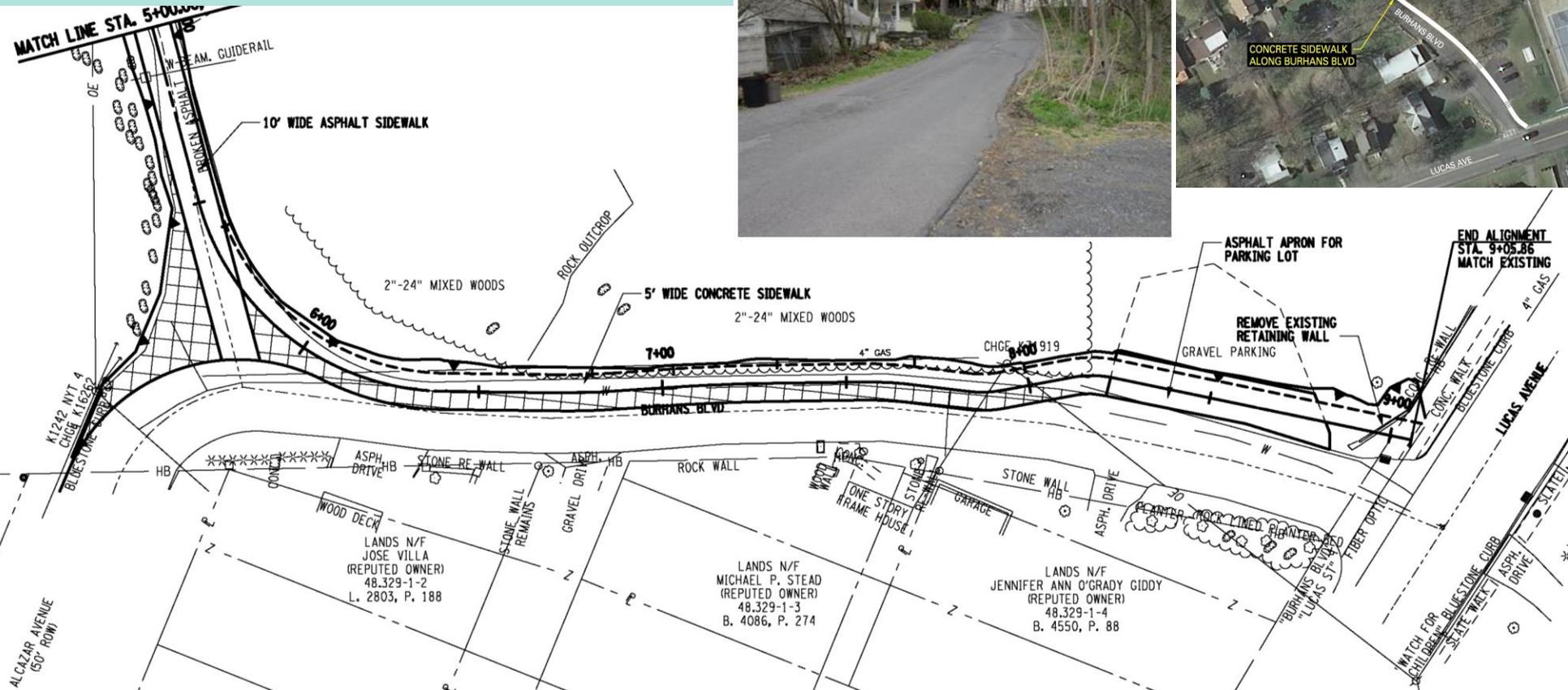


Design Alternatives



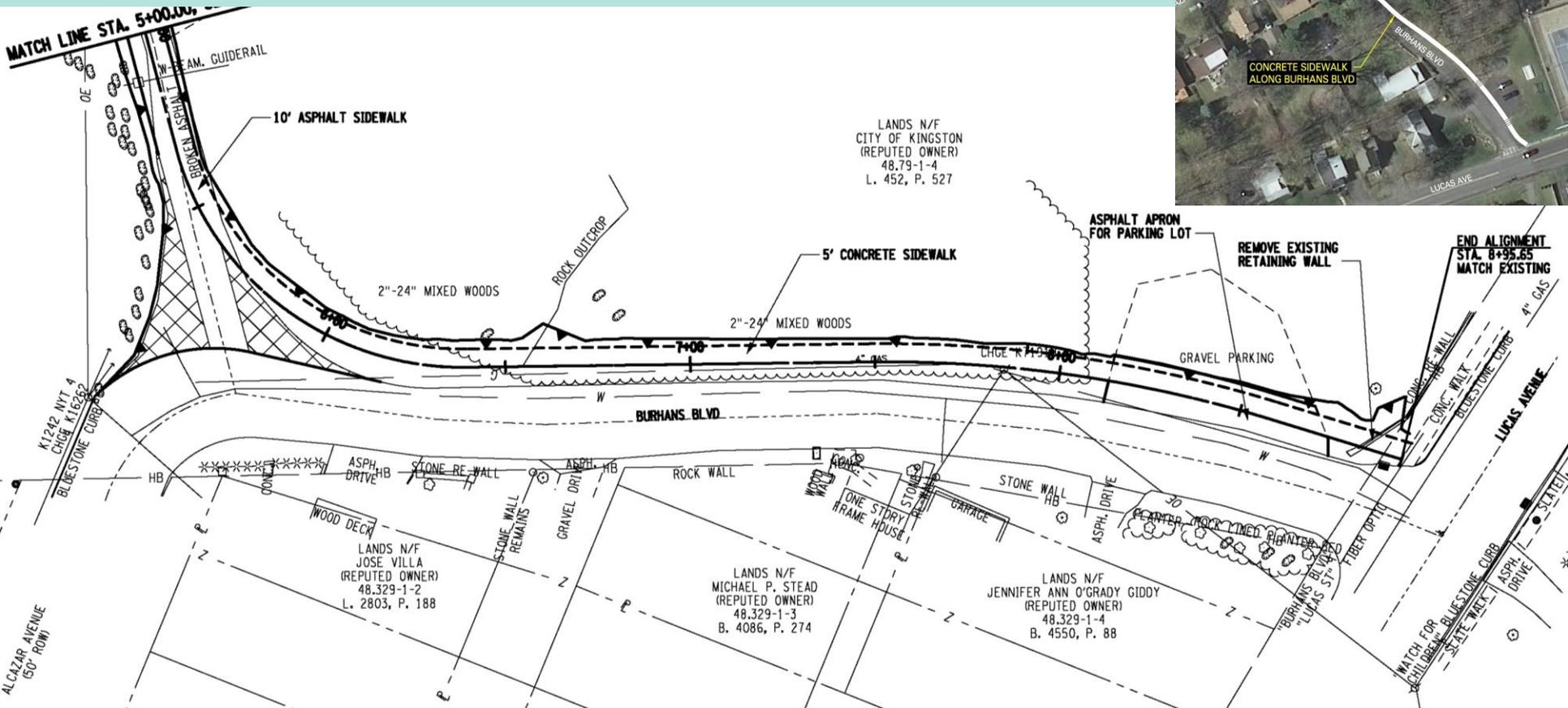
Design Alternatives

Option 2a: Burhans Blvd Sidewalk within Existing Roadway Footprint.



Design Alternatives

Option 2b: Burhans Blvd Sidewalk outside Existing Roadway Footprint.



LANDS N/F
CITY OF KINGSTON
(REPUTED OWNER)
48.79-1-4
L. 452, P. 527

LANDS N/F
JOSE VILLA
(REPUTED OWNER)
48.329-1-2
L. 2803, P. 188

LANDS N/F
MICHAEL P. STEAD
(REPUTED OWNER)
48.329-1-3
B. 4086, P. 274

LANDS N/F
JENNIFER ANN O'GRADY GIDDY
(REPUTED OWNER)
48.329-1-4
B. 4550, P. 88

END ALIGNMENT
STA. 8+95.65
MATCH EXISTING

Estimated Project Costs / Funding

| Activity | Available Federal Funding | Option 2A (1-way) | | Option 2B (2-way) | |
|--------------|---------------------------|-------------------|----------------------------|-------------------|----------------------------|
| | | Estimated Cost | Possible Funding Shortfall | Estimated Cost | Possible Funding Shortfall |
| Design | \$73,000 | \$73,000 | \$0 | \$73,000 | \$0 |
| Construction | \$384,000 | \$479,000 | \$95,000 | \$477,000 | \$93,000 |
| Inspection | \$32,000 | \$57,500 | \$25,500 | \$57,000 | \$25,000 |
| Total | \$489,000 | \$609,500 | \$120,500 | \$607,000 | \$118,000 |

Note: Estimated Costs presented include a 15% contingency.

Process / Next Steps

- Incorporate public input into the design
- Continue obtaining input from State/Federal and other involved agencies including:
 - NYSDOT
 - FHWA
 - NYSDEC
 - NYS Historical Preservation Office (SHPO)
- Revise preferred alternative
- Prepare and submit final Design Approval Document
- Finalize Design Plans
- Project goes out to bid



Anticipated Project Schedule

- Design Approval Fall 2015
- Final Plans Winter 2016
- Construction Start Spring 2016
- Construction Completed Fall 2016



Questions???

GPI Greenman-Pedersen, Inc.
Engineering and Construction Services

