

APPENDIX E

Field Notes

US 1 Safety Evaluation on Bicyclist and Pedestrian Safety

Field Evaluation

Day	Focus Area	Initial Meeting Location	Meeting Time	Attendees
1 – 10/25/17	1: City of Laurel to Whiskey Bottom	Parking Lot Days Inn 9860 Washington Blvd North, Laurel, MD 20723	12:30 PM	Elisa Mitchell (SWA) Katie Masetti (SWA) Randy Burks (SWA) Chris Eatough (OOT) Albert Engel (OOT) Kris Jagarapu (DPW) George Miller (SHA) TBD (HPD)
	3: Crestmount to Cemetery			
2 – 10/31/17	2: Guilford to Patuxent Range	Parking Lot Near Dunkin Donuts 8600 Washington Blvd, Jessup, MD 20794	8:00 AM	Elisa Mitchell (SWA) Frances Green (SWA) Paul Silberman (SWA) Chris Eatough(OOT) Albert Engel(OOT) Kris Jagarapu (DPW) Michael Yetter (HPD) George Miller (SHA)
	4: Greenfield to Levering			

Suggested Items to Bring

- Dress for the weather
- Wear shoes for walking
- Safety Vest
- Supplement information you wish to reference and/or share

Provided Items

- Clip Board per attendee
- Printed copies of field notes sheet per attendee
- Camera; one for the group
- Pencils
- Tablet to record/geolocate observations; one for the group

The map at the link below shows suggested meeting locations along each focus area to guide the field visit. We will walk near these locations as much as possible. Additional suggestions to stop and observe are welcome.

<https://drive.google.com/open?id=1wdgxyPWh3SrpFfj9pkcHePCY42c&usp=sharing>

US 1 Safety Evaluation - Prompt List

Key Topics

CONNECTIVITY

*Paths
Crossings*

RISKY BEHAVIOR

SAFETY

*Visibility
Lighting
Signage
Markings*

INFRASTRUCTURE

*Pedestrian Signals
General Disrepair
Accessibility*

TRAFFIC OPERATIONS

*Speeding
Volume Conflicts*

EDUCATION

ENFORCEMENT

Pedestrian	Bicycle	Transit
Are safe, continuous, and convenient pedestrian paths provided	Are there suitable provisions for cyclists given the characteristics of the roadway	Is there a stable, level, raised and slip resistant area to facilitate boarding and alighting
Is the sidewalk in disrepair such as an uneven surface or excessive slope	Do traffic operations create a safety concern for cyclists	Is there a comfortable distance between the waiting area and the travel way
Is the sidewalk width suitable for surrounding land use and observed pedestrian volumes	Do signs and markings along the cycling facility clearly indicate the cyclist path and right-of-way at intersections	Is there an accessible path to the bus stop
Is the pedestrian path free of moveable and fixed obstructions, such as trash cans or utility poles	Are signs and markings along the riding surface visible, well-maintained, easily understood and adequate	Is the nearest controlled crossing to a bus stop within a reasonable distance
Are pedestrian desire lines observed - Can pedestrian paths be re-routed to follow the most direct route	Are the bicycle accommodations continuous	Is there a shelter at the bus stop
Is there adequate and comfortable separation between vehicular traffic and pedestrians	Do bicycle accommodations provide adequate connectivity to major destinations	Is there sufficient lighting at the bus stop
Do pedestrians or motorists regularly misuse or ignore the pedestrian facilities	Is the riding surface smooth, stable, and free of debris	
Are there long or excessive crossing distances for pedestrians, either due to number of travel lanes or wide curb radii at intersections	Are there conflicts between pedestrians and bicycles on the sidewalk	
Are crosswalks sited along pedestrian desire lines	Can pedestrians/cyclists see approaching vehicles at all legs of the intersection/crossing and vice versa	
Are crosswalk markings or pedestrian signs in disrepair: non-existent, faded, worn, non-retroreflective		
Are measures needed to direct pedestrian to safe crossing points and pedestrian access ways		
Is pedestrian level lighting suitable		
Is the pedestrian crossing adequately lit		
Is there pedestrian visibility at driveways/curb cuts		
Do raised medians provide a safe waiting area for pedestrians		
Do pedestrian hand push buttons in good working order		

FOCUS AREA 1A: Columbia Street to Laurel Ave



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 1B: North Laurel Rd to Davis Ave



1. History of this stop - was it?

- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 1C: Davis Ave to Brewers Ct



1. Intersection lighting @ Hill St?

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 1D: Brewers Ct to Whiskey Bottom Rd



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 2A: Guilford Rd to Private Access Rd



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: AE

FOCUS AREA 2B: Private Access Rd to Patuxent Range Rd



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

FIELD NOTES NAME: AE

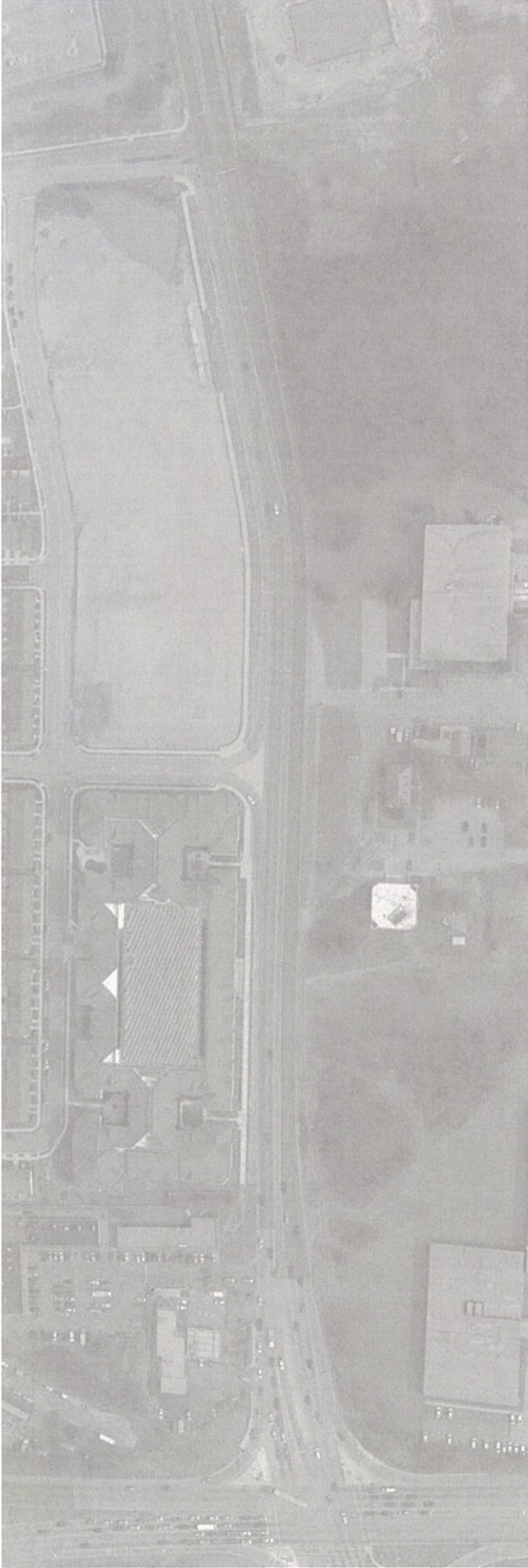
FOCUS AREA 3A: Crestmount Rd/Assateague Dr to MD 175



1. Refresh markings of crosswalks

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FOCUS AREA 3B: MD 175 to Port Capital Dr



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 3C: Port Capital Dr to Kit Kat Rd



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 3D: Kit Kat Rd to Cemetery Ln



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 4A: Greenfield Rd to Montgomery Rd



1. Desire path b/w backyard of townhomes & sidewalk on us 3
2. Open house participants expressed desire for this connection
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

AE

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 4B: Montgomery Rd to Doctor Patel Dr



1. *crossing activity observed here*

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: AK

FOCUS AREA 4C: Doctor Patel Dr to Augustine Ave



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: AE

FOCUS AREA 4D: Augustine Ave to Brumbaugh St



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: AE

US 1 Field Safety Evaluation

FOCUS AREA 4E: Brumbaugh St to Furance Ave



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

US 1 Field Safety Evaluation

FIELD NOTES NAME: AE

FOCUS AREA 2A: Guilford Rd to Private Access Rd



1. MISSING SIDEWALK / ~~SEWER MAIN~~

2.

3.

4.

5.

6.

7.

8.

9.

10.

FIELD NOTES NAME: CE

US 1 Field Safety Evaluation

FOCUS AREA 2B: Private Access Rd to Patuxent Range Rd



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

US 1 Field Safety Evaluation

FIELD NOTES NAME: CE

FOCUS AREA 3A: Crestmount Rd/Assateague Dr to MD 175



- 1. OBSERVED - STRANGLER DESIGN LINE (WORN PATH) ON SE CORNER OF + ROUTE 1. ASSATEAGUE
- 2. VERMONT PULL OFF HAD VERTICAL ALIGNMENT CHANGES, FORECASTS PEDESTRIANS OFF
- 3. MAINTENANCE NEEDED, VEGETATION ON SIDEWALK. SIDEWALK INTO STREET.
- 4. SIDEWALK GAPS. VERY WORN PATH.
- 5. NO RETORNA SINGS FOR PEDESTRIAN DETOUR.
- 6. SIDEWALK LIFTED, ADA T TRIP HAZARD
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: Chris Entong



1. PED SIGNAL NOT IN AT CURS. TRAFFIC SIGNAL REQUIRED FOR
2. ACCESS, BUT PED SIGNAL DELAYED.
3. SLIT FENCES ALONG DEVELOPMENT ~~FENCE~~ FORCE PEDS INTO STREET. TO
4. ACCESS BUS STOP.
5. FORCE BOUNDING SIGNIT WORK FOR REP CROSSING
- 6.
- 7.
- 8.
- 9.
- 10.

Chris Eatough

FIELD NOTES NAME:

US 1 Field Safety Evaluation

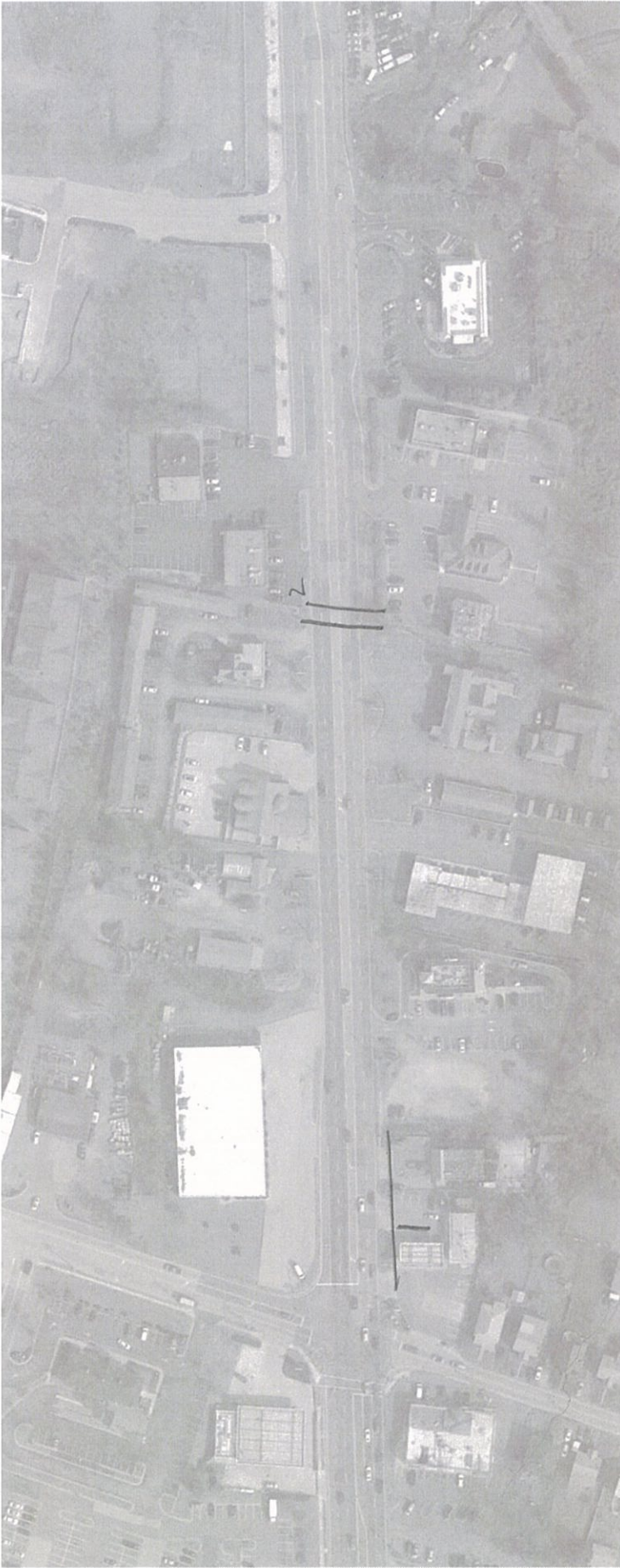
FOCUS AREA 4A: Greenfield Rd to Montgomery Rd



- (No Buffer)
- TRAFIC
1. OVENGROUND SIDEWALK - V. UNCONFORMABLE WALKING CLOSE TO HIGH SPEED
 2. MISSING SIDEWALK + CROSSWALK TO BUS STOP.
 3. MISSING CROSSWALK
 4. MISSING SIDEWALK
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.

FIELD NOTES NAME: CE US 1 Field Safety Evaluation

FOCUS AREA 4B: Montgomery Rd to Doctor Patel Dr



1. MISSING SIDEWALK TO BUS STOP AND NO BUS STOP PAD. DEEP WORN PAVING.
2. HIGH CARSH AREA. NEEDS CROSSING. CAN'D BE THANK. ALSO LIGHTING.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: CE

FOCUS AREA 4C: Doctor Patel Dr to Augustine Ave



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: CE

US 1 Field Safety Evaluation

FOCUS AREA 4D: Augustine Ave to Brumbaugh St



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: CE

FOCUS AREA 4E: Brumbaugh St to Furance Ave



1. Crosswalk not marked, curb ramp in good shape
2. Push button not reachable for ADA.
3. No leveling sidewalk
4. Ped signal display not facing crosswalk.
5. Panner vehicles back out parking on north side.
6. No sidewalk to bus stop or pad
7. Bus stop with no crosswalk or pad
- 8.
- 9.
- 10.

FIELD NOTES NAME: CE

FOCUS AREA 1A: Columbia Street to Laurel Ave



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

US 1 Field Safety Evaluation

FIELD NOTES NAME: _____

FOCUS AREA 1B: North Laurel Rd to Davis Ave

no facilities
no facilities



1. Sidewalks
2. tree pits
3. There is lighting → good 4 Street
- 4.
5. ped activity
6. short gaps in SW
7. New developments
8. Development parking in SW → signal location TBD, not connect to existing SW
- 9.
- 10.

FOCUS AREA 1C: Davis Ave to Brewers Ct



1. Transit - multi service center

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

FOCUS AREA 1D: Brewers Ct to Whiskey Bottom Rd



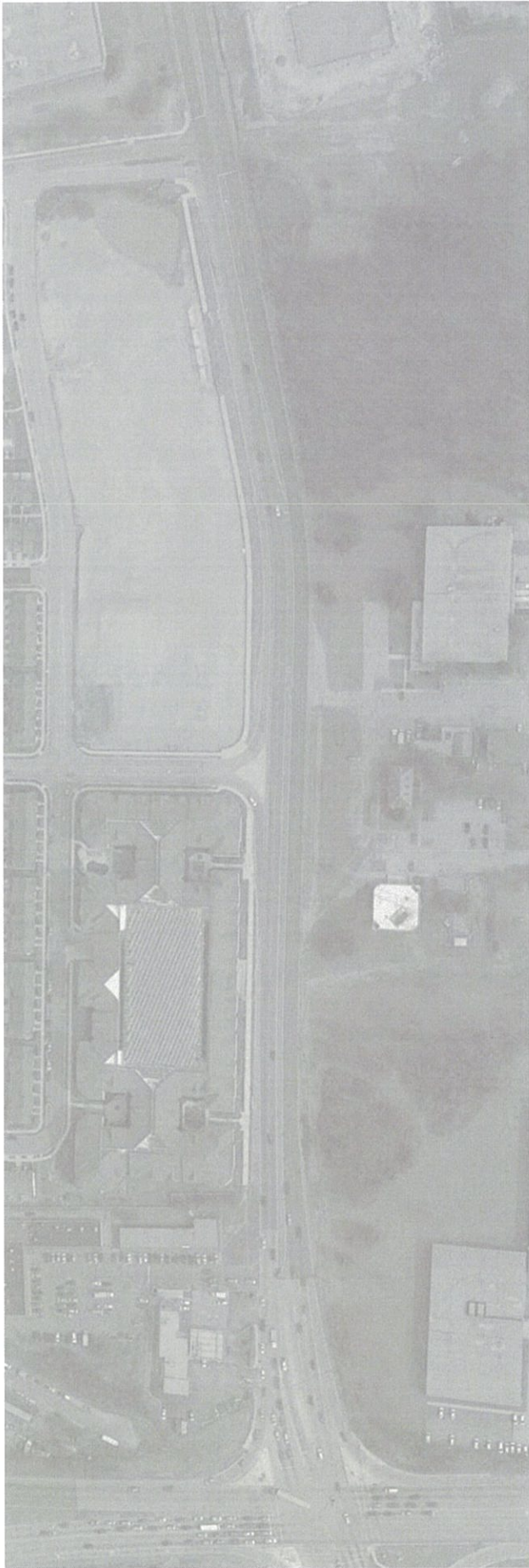
1. Red X → curb curve
2. Recreate bus stops? the north / are south
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FOCUS AREA 3A: Crestmount Rd/Assateague Dr to MD 175



1. *px* CW added in part 2 of 5
2. *depression is 5w -> brake tire to hit 116 - asphalt*
3. *lack of ped connection to crossing*
4. *there are 5w surrounding the crossing*
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FOCUS AREA 3B: MD 175 to Port Capital Dr

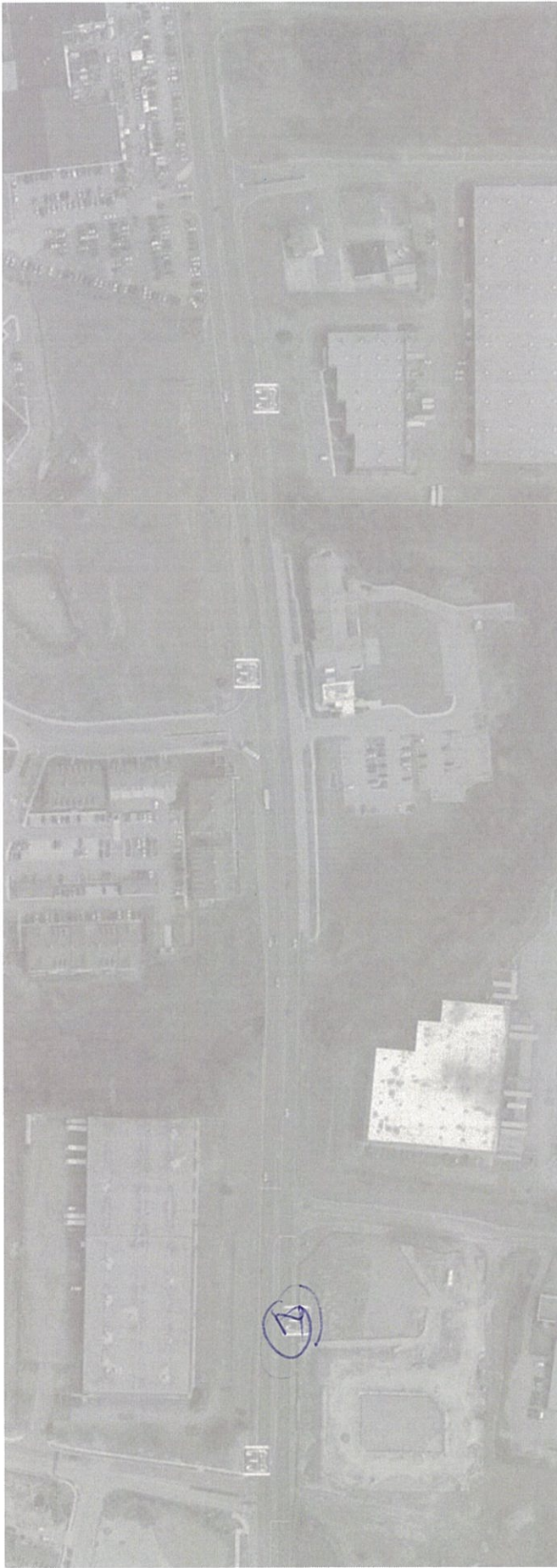


- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 3C: Port Capital Dr to Kit Kat Rd



1. *using stop sign -> no connection to Sid*

- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 3D: Kit Kat Rd to Cemetery Ln



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

10th and Square

• Slow links - 11th and 175

• Bus stop locations →

• SW access
crossing location

• lack of crossings

• SD ~~75~~ concerns with more crossings

• most ped in Laurel @ 175; otherwise nulls

• if changes in speed limit, need other changes
unless there was major enforcement

• Speed camera maybe in future → school zone

FA1

0.9mi BOUNDARY LINE - WHISKEY BOTTOM

ADT 18K

T% ~5%

SPEED LIMIT 35

SPEEDS 30-40

BIKE Laurel/Whiskey

CONNECTIONS

PREVIOUS STUDY RECS

- Street slope - sidewalk
- combine access locations
- partial grade separation at WB
- red light automated enforcement
- sight distance improvements
- ped crossing → phasing striping

Reutilization

BUS STOPS (4)

- Madison Hill
- Brewers (2)
- (END)
- Laurel (see track)
- Center
- Dans

CAC ^{or} corridor activity center

CE corridor employment district

TOD

FA 3

1.3 mi

CRESTMOUNT TO CBMETARY
(175) (Dorset Run)

ADT 28K

T% ~ 5%

CAC/CE

SPEED
LIMIT 50

SPEEDS
AM/PM 30-40
~~30-40~~
MID 20-30

BIKE none (closest Meadowridge)

CONNECTIONS

BUS STOPS 4
Montevideo
Fort Capito
Blue Stream
Kit Kat

PREVIOUS
RECS

• Boulevard Design (Waterloo → Meadowridge)

• US1/175 • capacity/safety improvements

traffic signal preemption

red light camera

traveler advisory system

enhanced CW w/ medials & ped signals

REVITALIZATION

MD 175 @ US1
Quadrant A
via crest rd

RESTRICT US 2 NB LT

connect crestmount + I75 to divert traffic to 95 NB from intx

B • Double slip lanes from 95 NB to US 7 SB
" US 5B to 95 NB

C • Grade sep separated I75 priority

FOCUS AREA 1A: Columbia Street to Laurel Ave



1. *West of Seawall*
2. *Property for sale zoned?*
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: *George M*

FOCUS AREA 1B: North Laurel Rd to Davis Ave



1. Lack of sidewalk
2. Bus stop No shelter No sidewalk
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 1C: Davis Ave to Brewers Ct



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

FOCUS AREA 1D: Brewers Ct to Whiskey Bottom Rd



1. Halfway in-work fided - Not a School zone
2. Lighting w/ signal no light on east side of US1 at xwalk ramp
3. Zebra walk Conduition GOOD
4. TRANSIT STOPS @ Brewers - relocate shelters to west side - no trash
5. Potentially location for Red signed - ??? w/ emergency Abandon Shelters
6. 7 workers Cross US1 in 20 minutes - Abandoning Red Refuge need sign on EAST Rd
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

FOCUS AREA 3A: Crestmount Rd/Assateague Dr to MD 175



1. Xwalks Need Attention - Trucks Army SB US1
2. 175 SB Free Right YIELD onto road Right
3. Repair yellow Diamond -
4. CRAs Main value Given

- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

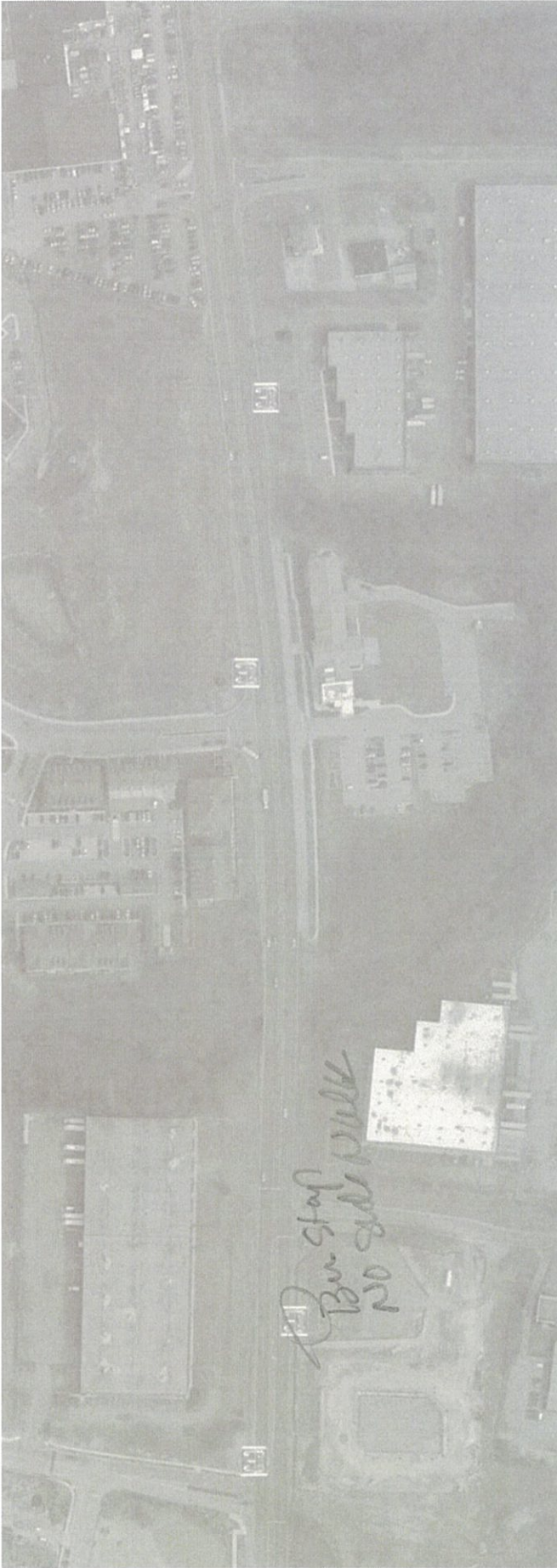
US 1 Field Safety Evaluation



1. Missing Sidewalk Link
2. Red Sidewalk - Closed NO DRAINAGE BRUCE
3. OLD TRAILS PAVES
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

FOCUS AREA 3C: Port Capital Dr to Kit Kat Rd



1. _____
2. _____
3. _____
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5. _____
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8. _____
9. _____
10. _____

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 3D: Kit Kat Rd to Cemetery Ln



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 1A: Columbia Street to Laurel Ave



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: KS

FOCUS AREA 1B: North Laurel Rd to Davis Ave

Sidewalk
Stops
←



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

KD

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 1C: Davis Ave to Brewers Ct



1. Consider potential mid-block crossing?

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: KS

FOCUS AREA 1D: Brewers Ct to Whiskey Bottom Rd



1. Bus stop at Whiskey Bottom Rd?
2. Potential SL reduction
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: RS

FOCUS AREA 2A: Guilford Rd to Private Access Rd



1. Install sidewalk to Guilford Rd
2. Conclude X-walk on the north side of US1
3. Extend sidewalk on east side to Guilford Rd
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: KS

FOCUS AREA 2B: Private Access Rd to Patuxent Range Rd



1. Signal pole is damaged.
2. Consider pedestrian X-walk -
3. No sidewalks on Patuxent Range Rd
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: KS

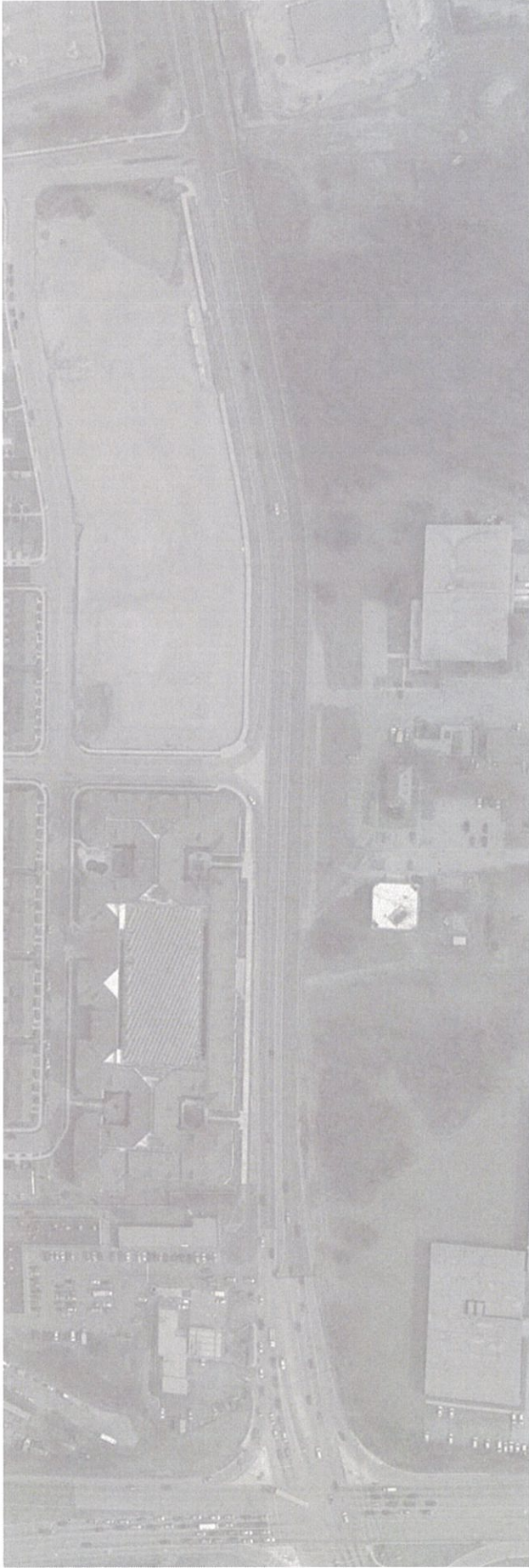
FOCUS AREA 3A: Crestmount Rd/Assateague Dr to MD 175



- 1.
- 2.
- 3.
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- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: KSJ

FOCUS AREA 3B: MD 175 to Port Capital Dr



- 1.
- 2.
- 3.
- 4.
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- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: KS

FOCUS AREA 3C: Port Capital Dr to Kit Kat Rd



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

K5

FIELD NOTES NAME: _____

US 1 Field Safety Evaluation

FOCUS AREA 3D: Kit Kat Rd to Cemetery Ln



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: KS

FOCUS AREA 4A: Greenfield Rd to Montgomery Rd



1. Marked X-walk, NO ped signs, SL east
2. Sidewalk width narrows due to debris from the embankment - Small curbside?
3. No corridor lighting
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: RD

FOCUS AREA 4B: Montgomery Rd to Doctor Patel Dr



1. No Sidewalks on Montgomery rd
2. Site going through redevelopment - Sidewalks & X-walk on West side?
3. Missing sidewalk on East side
4. No street lighting - 3 night time crashes ^{ped}
- 5.
- 6.
- 7.
- 8.
- 9.

KD

FIELD NOTES NAME: _____

FOCUS AREA 4C: Doctor Patel Dr to Augustine Ave



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

FIELD NOTES NAME: KS

FOCUS AREA 4D: Augustine Ave to Brumbaugh St



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

FIELD NOTES NAME: LS

FOCUS AREA 4E: Brumbaugh St to Furance Ave



1. X-walk markings not installed yet
2. Ped push button is not accessible
3. Bus stop in grass - no sidewalk
4. More bus stop to far side where sidewalk exists
5. Vehicles back out onto US 1
6. Ped signal not visible during AM (sun glare)
7. Street lighting near X-walk - ?
- 8.
- 9.
- 10.

Kris

FIELD NOTES NAME: _____ US 1 Field Safety Evaluation

FOCUS AREA 2A: Guilford Rd to Private Access Rd



1. NO ped x-walk or stairs @ Guilford, Fox
2. NO bus stops ^{ads tanks}
3. County project on Guilford to install s/w ^{E/O US 1, Ringf}
4. Lack of intermodal ped connections
5. connect missing sidewalk east side US 1 no boulevard
- 6.
- 7.
- 8.
- 9.
- 10.

FIELD NOTES NAME: Paul S.

FOCUS AREA 2B: Private Access Rd to Patuxent Range Rd



1. add curb ramp, x-walk, ped signal, sidewalk

2.
3.
4. likely commercial
5. red light for road

6.
7.
8.
9.

FIELD NOTES NAME: P.S.