

**Bicycle and Pedestrian Safety Commission
Agenda
Monday, February 21, 2011
5:30 p.m. - Hooker Conference Room**

I. INTRODUCTIONS

II. APPROVAL OF MINUTES

December 20, 2010 – available for approval at March meeting

III. PUBLIC COMMENT

(Items not on the agenda) Limit 3 minutes per person.

IV. COMMISSION MEMBER'S COMMENTS

V. DEPARTMENTAL UPDATES

A. City Planning

1). Renwick Amendment

2). Bloomington Cooperative – Dead End of North Spring Street

B. City Engineering

1). 19th Street & Dunn Street – HAWK (High-Intensity Activated Cross-Walk) Signal

2). 17th Street & Monroe Street Intersection Improvements

VI. NEW BUSINESS

VII. OLD BUSINESS

NEXT WORK SESSION: Monday, March 7, 2011 at 5:30 p.m. in the Hooker Conference Room at the Showers Building.

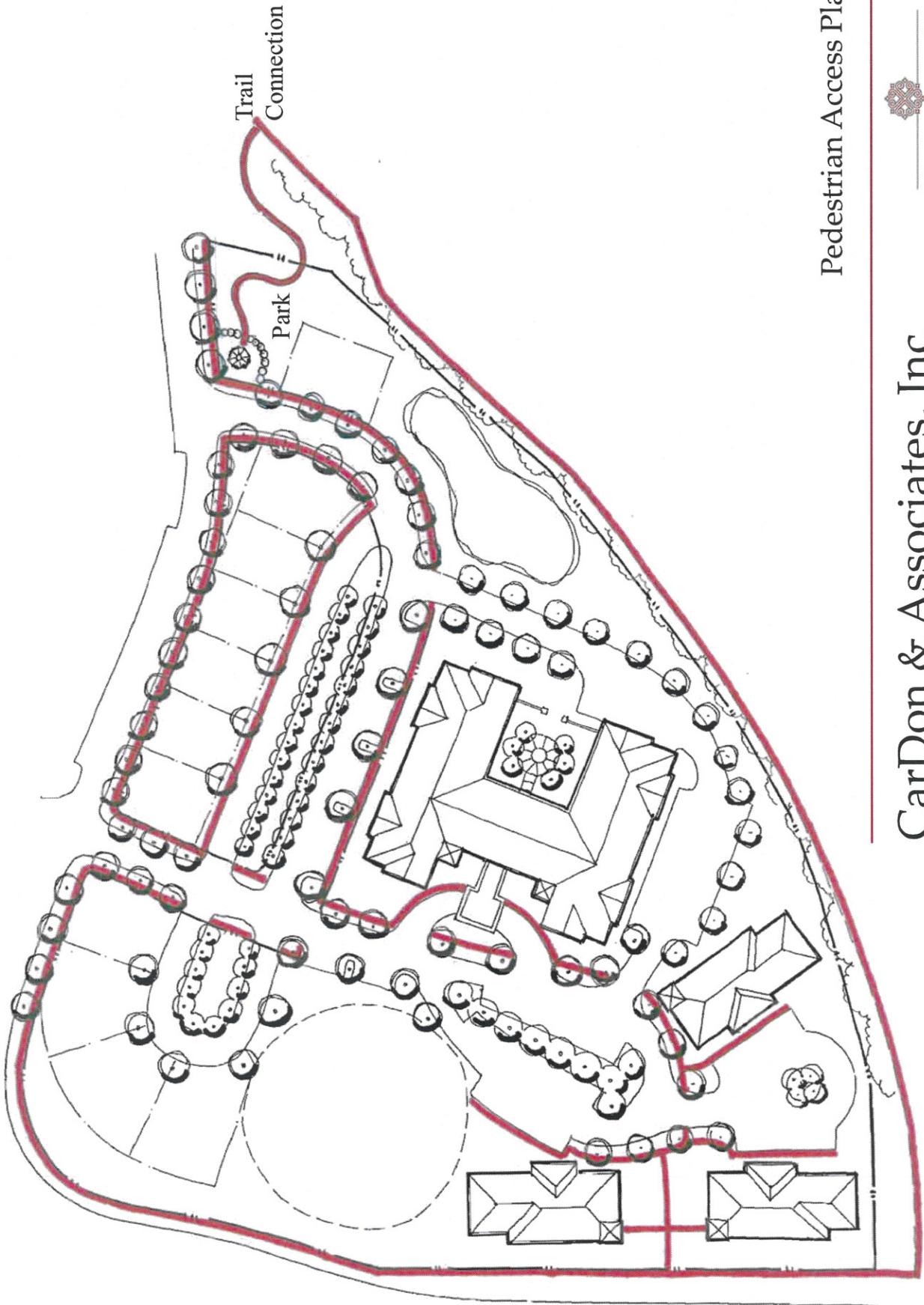
NEXT MEETING: Monday, March 21, 2011 at 5:30 p.m. in the Hooker Conference Room at the Showers Building.



Illustrative Site Plan

CarDon & Associates, Inc.





Trail
Connection

Park

Pedestrian Access Plan



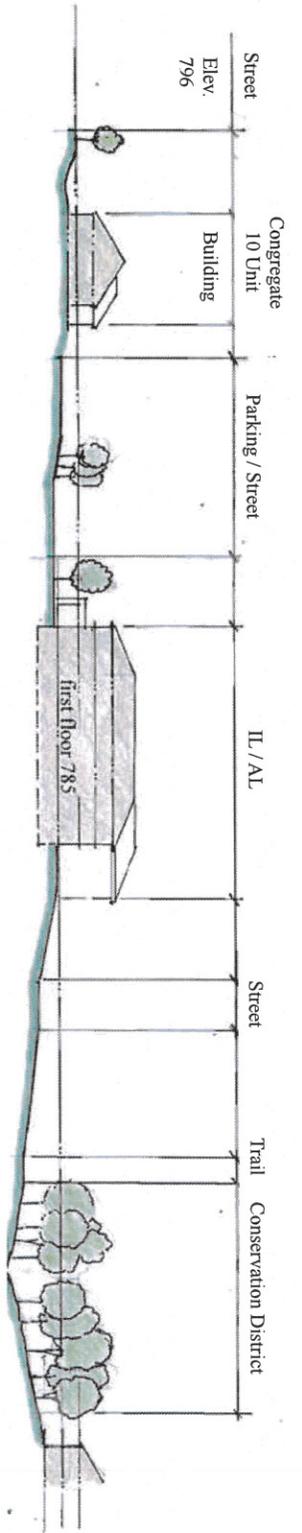
CarDon & Associates, Inc.



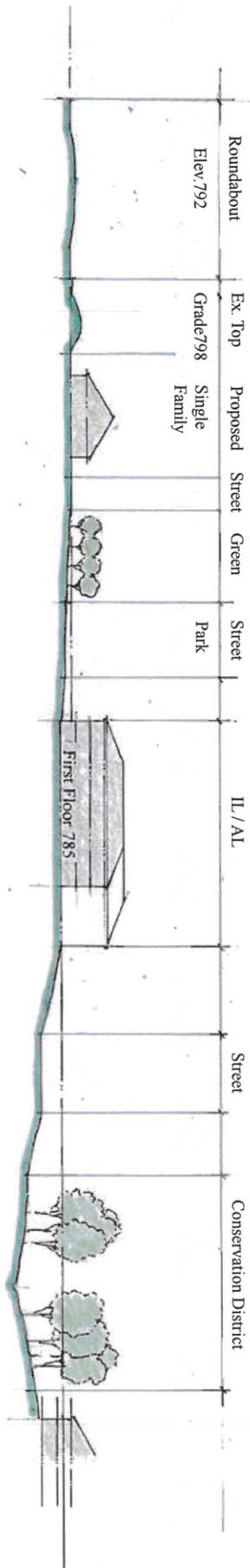
Site Cross Section and Perspective View Study Locations

CarDon & Associates, Inc.

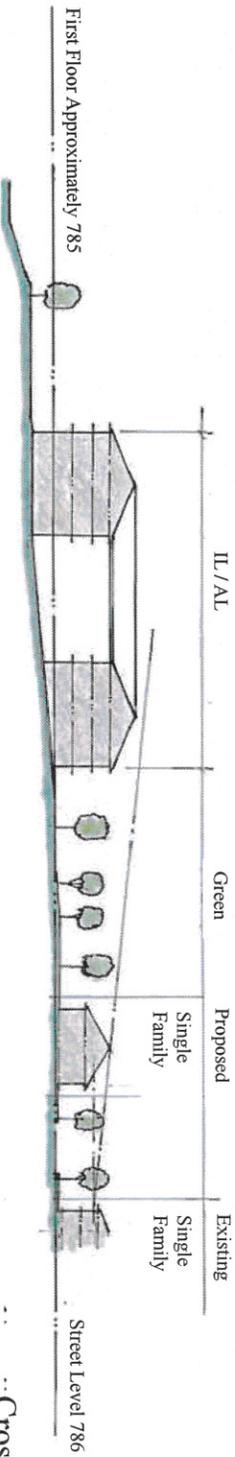




Cross Section 1
Scale: 1" = 80'-0"



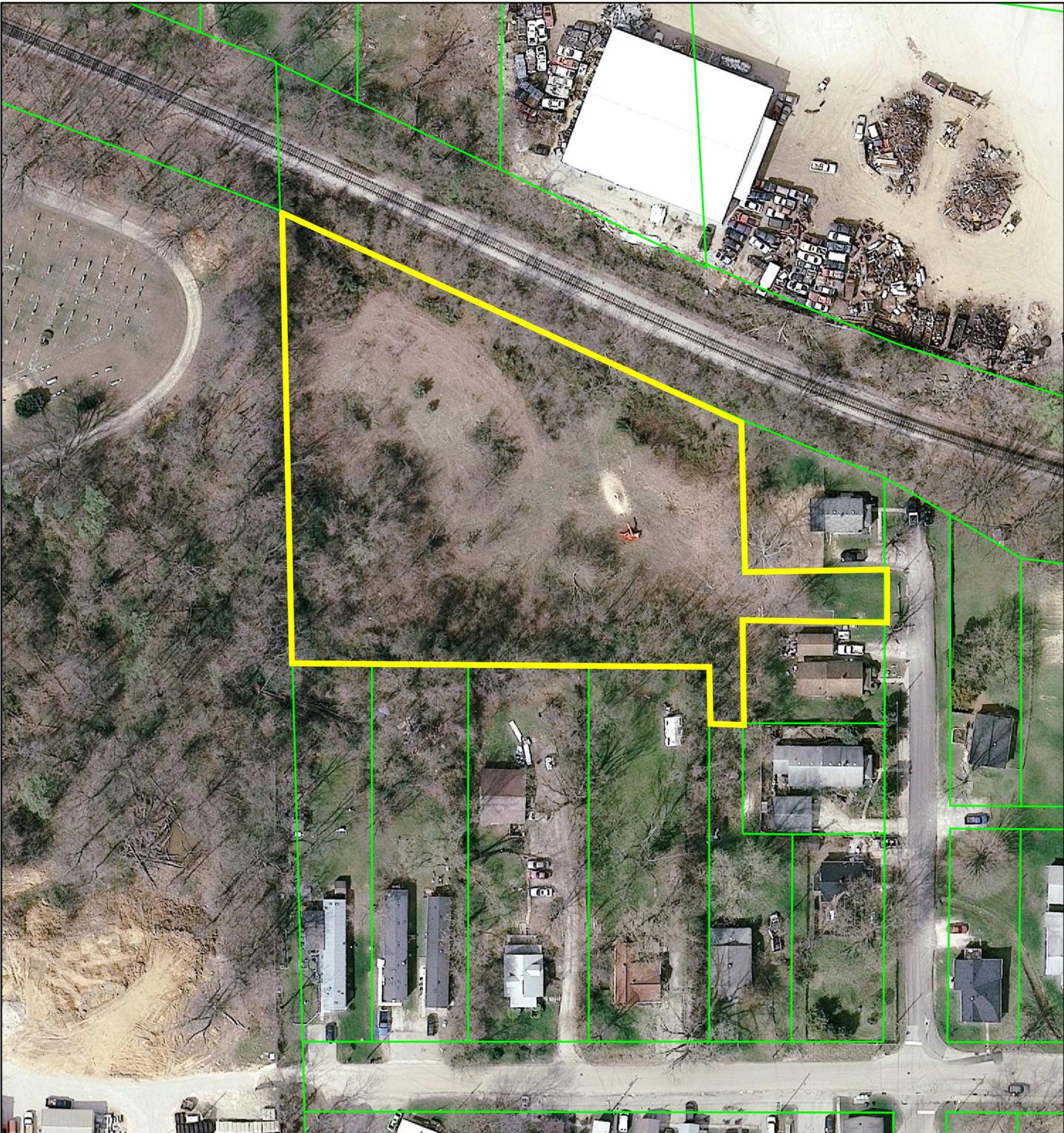
Cross Section 2
Scale: 1" = 80'-0"



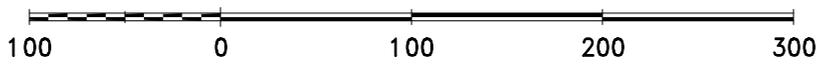
Cross Section 3
Scale: 1" = 80'-0"

Bloomington Cooperative Plots is requesting a rezone to Planned Unit Development (PUD) for a property located on a 2.23 acre tract of land located west of the dead end of N. Spring Street. Please see the attached map for the exact location. I have also included an aerial map of the area as well. Their petitioner's proposed use of the property does not fit into any categories found within the UDO. They are proposing a small ecovillage with several parts. Some of the more significant components are as follows:

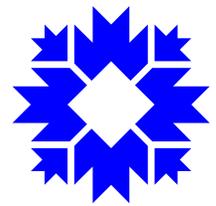
- 1 large co-op house of up to 30 beds. It would also have education space, a commercial kitchen and bathroom facilities.
- A village area for up to 25 small individual housing structures (max 70 beds) that may or may not have kitchen and bath facilities.
- Community Gardens and Orchard
- Potential vegetable stands
- Summer educational camps
- Potential seasonal workers (on-site camping)
- Alternative fuel sources (wind turbine, geothermal, solar, etc...)
- Animals (chickens, goats, ducks, turkeys, rabbits)
- Car Share



By: shayp
11 Jan 11

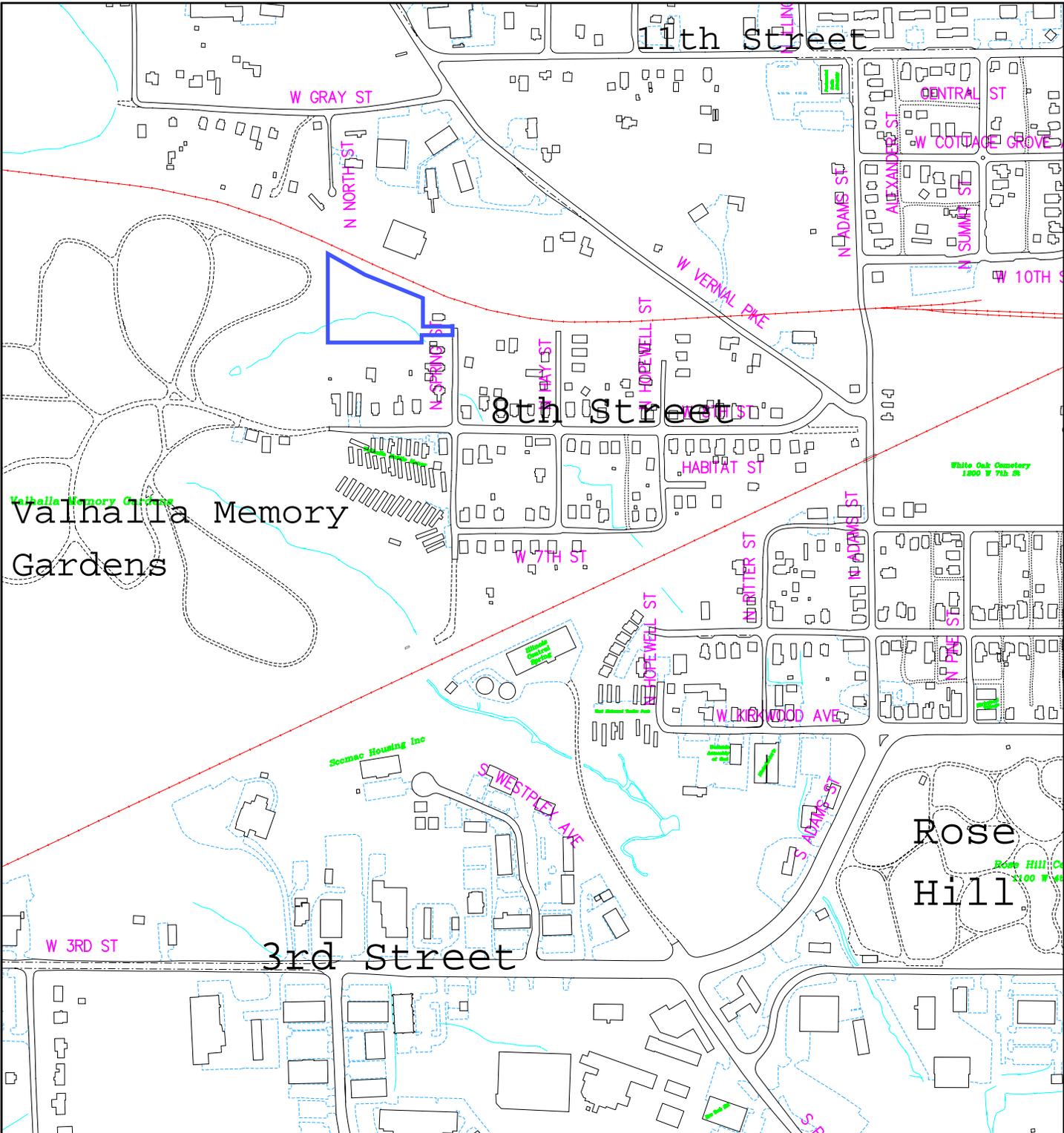


City of Bloomington
Planning



Scale: 1" = 100'

For reference only; map information NOT warranted.



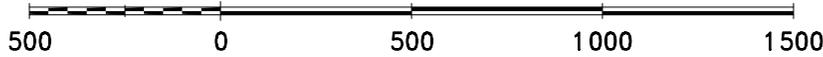
Valhalla Memory Gardens

White Oak Cemetery
1200 W 7th St

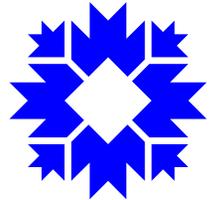
Scenic Housing Inc

Rose Hill
Rose Hill Co
1100 W 4th

By: shayp
11 Jan 11



City of Bloomington
Planning



Scale: 1" = 500'

For reference only; map information NOT warranted.

How does a HAWK signal work?

“HAWK” stands for **H**igh-intensity **A**ctivated cross-**W**alk. It is a new kind of signal designed to help pedestrians cross busy streets.

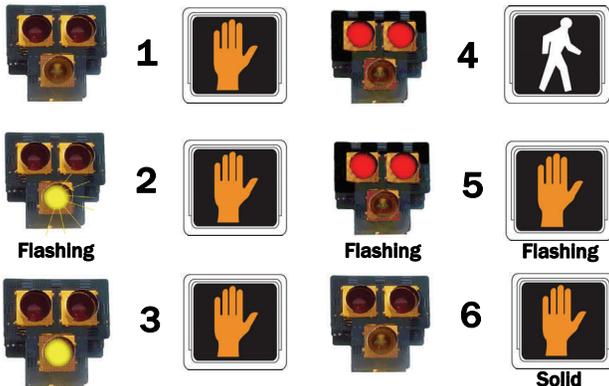
While different in appearance to the driver, to the pedestrian this signal works the same as any button-activated traffic signal in the District. It stops traffic with a red signal allowing pedestrians to cross safely.

How to use as a Pedestrian:

Using a HAWK signal as a pedestrian is easy. Simply push the button and wait for the WALK signal to appear. It may take up to one minute for the signal to change, depending on the time of day. Be sure traffic has stopped before you enter the crosswalk.

The FLASHING DON'T WALK signal will appear as you finish your crossing. Countdown numbers will show how much time remains to cross the street.

HAWK - Pedestrian signal sequence:



HAWK - Motorist signal sequence:



During the double **FLASHING RED** signal indication, drivers are required to come to a full **STOP**, but may proceed when pedestrians have cleared the crosswalk and it is safe to proceed.

Accessibility for Disabled Pedestrians

The new HAWK signal features Accessible Pedestrian Signal equipment that provides disabled pedestrians with information about when the WALK signal is on. An audible message and vibrating arrow button will announce when the WALK signal is on.



Side Street Traffic

Unlike a standard traffic signal, intersections with HAWK signals do not have any traffic signals facing the side street approaches. Any side street that is controlled by a stop sign will continue to be controlled by a stop sign when a HAWK signal is in place.



HAWK Signals in DC

The District Department of Transportation (DDOT) received permission from the Federal Highway Administration (FHWA) in April 2009 to experiment with HAWK signals. This type of signal has been safely and successfully tested in Tucson, AZ and several other cities in the US since 2004. Alexandria, VA installed a HAWK signal in 2008.

The HAWK signal installed at Georgia Ave. and Hemlock St. NW is a pilot location and DDOT will gather data on its operation and report to FHWA.

Pedestrian Safety

DDOT places a high priority on pedestrian safety and is focusing efforts on unsignalized crosswalks on high traffic streets. Often these crossings do not meet engineering standards for installation of a conventional traffic signal so DDOT may use other treatments instead.

While various treatments exist for these unsignalized crossings, there is growing concern that more should be done – especially on streets with heavy, high-speed traffic.

The District, like most states, requires motorists to stop and give the right of way to pedestrians legally within crosswalks. However, DDOT research has shown that on busy, high traffic streets, only about 1 in 4 drivers is willing to stop for pedestrians in the crosswalk. The HAWK signal has been found to significantly increase motorist awareness and produce as much as a 97% motorist compliance rate.

Resident Questions & Concerns

If you have any questions about the HAWK signal or any traffic control device in the District, please contact the

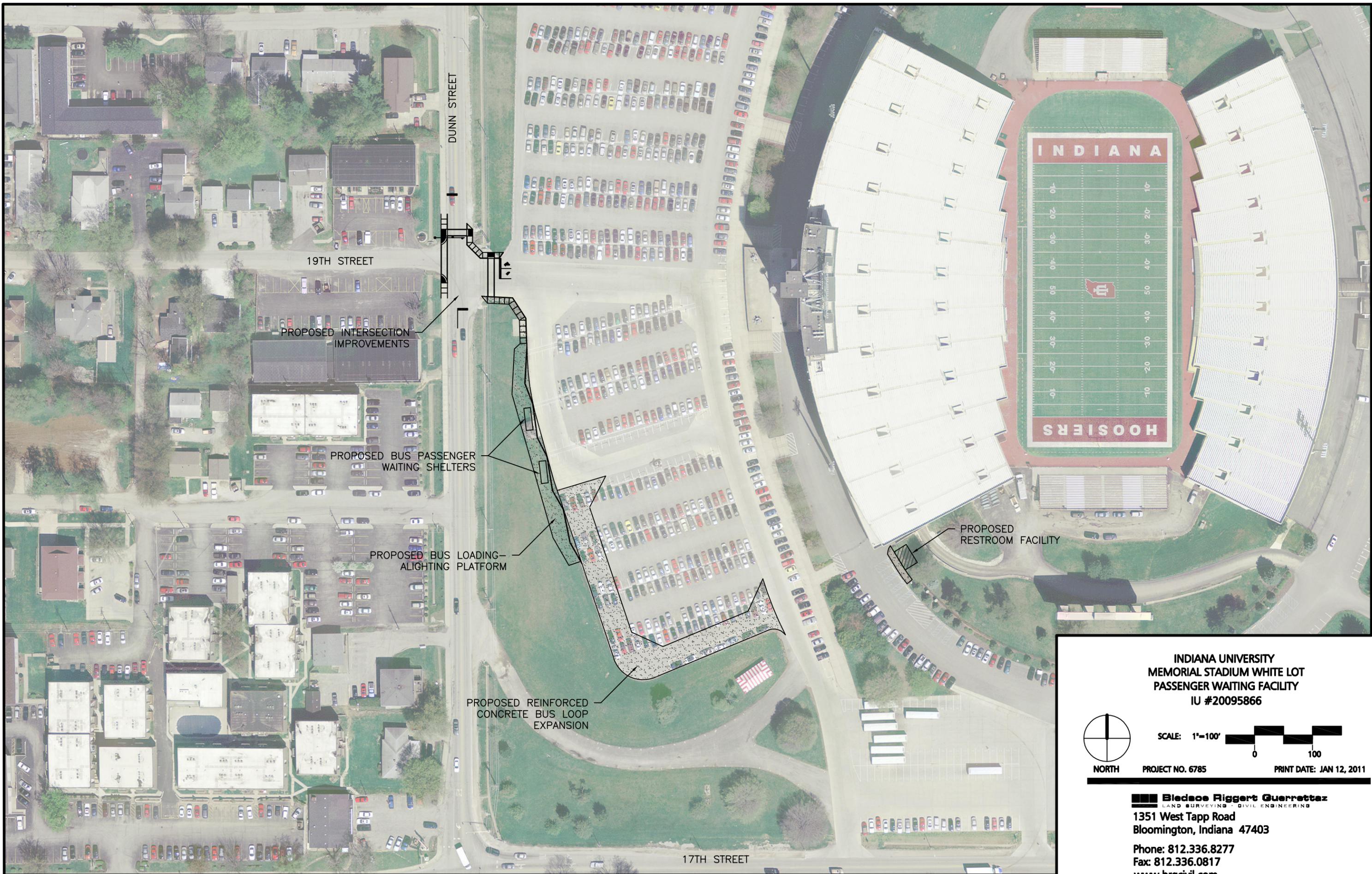
District Department of Transportation at 202-673-6813 or visit our website at www.ddot.dc.gov.



HAWK (High-Intensity Activated crossWalk) Pedestrian Signal Guide



What You Need to Know



19TH STREET

DUNN STREET

PROPOSED INTERSECTION IMPROVEMENTS

PROPOSED BUS PASSENGER WAITING SHELTERS

PROPOSED BUS LOADING-ALIGHTING PLATFORM

PROPOSED REINFORCED CONCRETE BUS LOOP EXPANSION

PROPOSED RESTROOM FACILITY

17TH STREET

INDIANA

HOOSIERS



NORTH

SCALE: 1"=100'



PROJECT NO. 6785

PRINT DATE: JAN 12, 2011

INDIANA UNIVERSITY
MEMORIAL STADIUM WHITE LOT
PASSENGER WAITING FACILITY
IU #20095866

Bledsoe Riggert Guerrettez
LAND SURVEYING · CIVIL ENGINEERING
1351 West Tapp Road
Bloomington, Indiana 47403
Phone: 812.336.8277
Fax: 812.336.0817
www.brgcivil.com

DREXEL ROAD / SANTA CLARA AVENUE HAWK PEDESTRIAN CROSSING INSTALLATION



VICINITY MAP

SHEET INDEX

<u>SHEET NUMBER</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	PLAN SHEET
3	POLE & CONDUCTOR SCHEDULE
4	SIGNAL DETAIL SHEET

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 1/24/2007
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**CITY OF
TUCSON**



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

**DREXEL ROAD AND SANTA CLARA AVENUE
HAWK CROSSING**

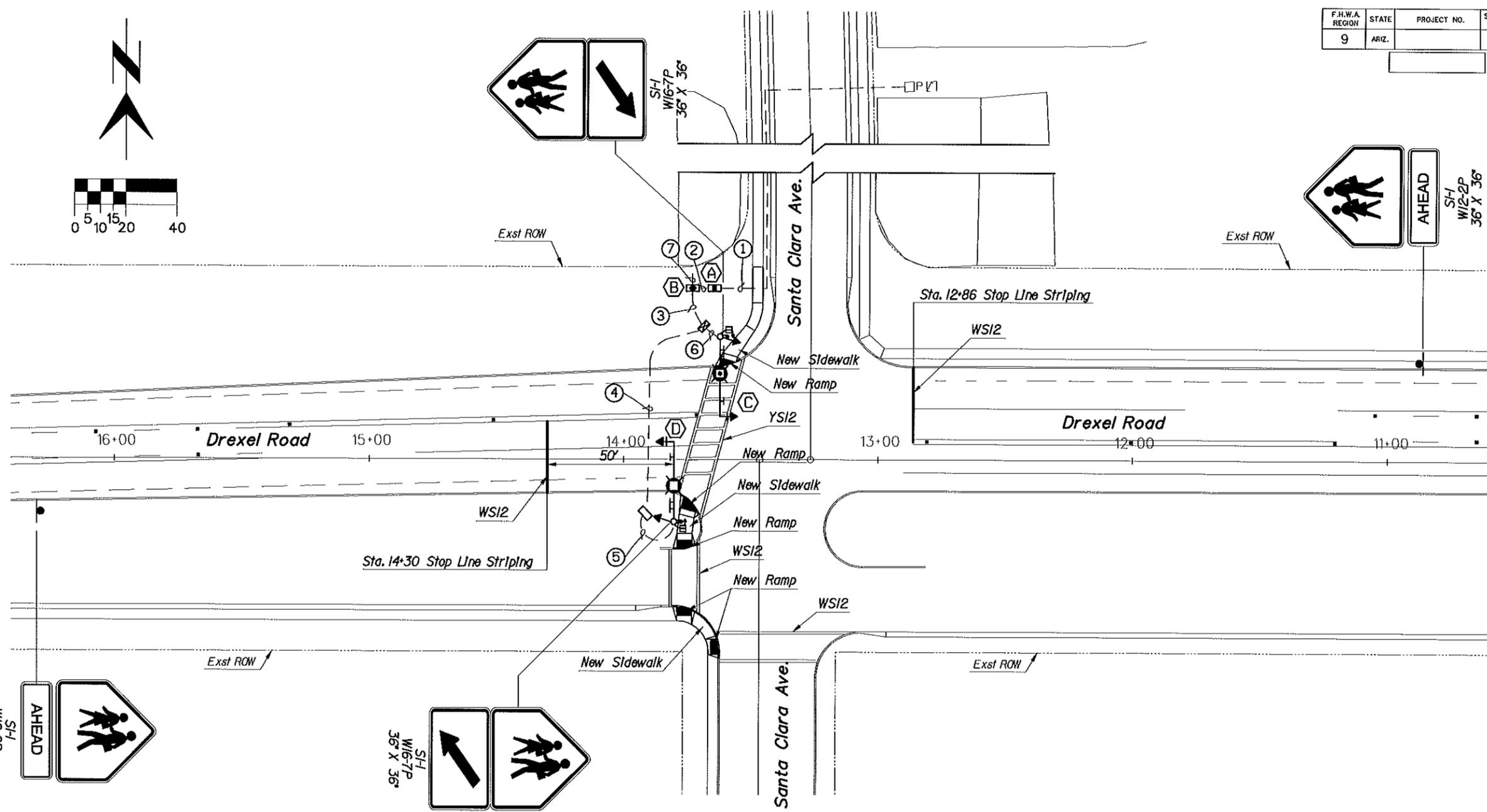
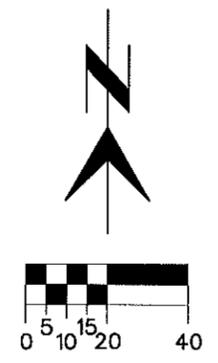
Approval	Signatory	Date	Approved	1 OF 4
DESIGN SECTION			_____ 20__	
TRAFFIC ENGINEERING				
ENGINEERING LANDSCAPE ARCH				
ENGINEERING ADMINISTRATOR				
			TRANSPORTATION DIRECTOR	
			REF. _____ SCALE 1	
			PLAN NO. U-2006-013	



NO.	DATE	REVISION	BY	CHKD.	APPR.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

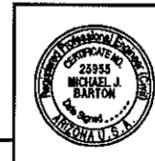
The working days before you do
CALL FOR THE BLUESTAKES
800-782-5348
Blue Stake Center
CALL COLLECT



NOTES:

1. TRAFFIC SIGNAL CONSTRUCTION SHALL CONFORM TO CITY OF TUCSON/PIMA COUNTY STANDARD DETAILS 2003 EDITION, ALL AGENDA, REVISIONS AND THE SPECIAL PROVISIONS.
2. THE LOCATION OF UTILITY FACILITIES ARE APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITIES FOR EXACT LOCATION PRIOR TO CONSTRUCTION ACTIVITY.
3. REFER TO SPECIAL PROVISIONS AND SHEET 3 FOR NEW INTERNALLY ILLUMINATED SIGN REQUIREMENTS.
4. TOP OF POLE FOUNDATION CAPS SHALL BE AT THE SAME ELEVATION AS CURB.
5. ALL LUMINAIRES SHALL CONFORM TO THE FOLLOWING: 120V, 400W HPS, TYPE II DISTRIBUTION, CUTOFF AND FLAT LENS.
6. CONTRACTOR SHALL HAND DIG AS REQUIRED, WHERE UTILITIES ARE IN POTENTIAL CONFLICT WITH INSTALLATION EQUIPMENT.
7. EXACT LOCATION OF EACH NEW PULLBOX, POLE, CABINET, CONDUIT RUN, ETC., SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL INSPECTOR PRIOR TO INSTALLATION.
8. ALL 16 CONDUCTOR IMSA SHALL RUN FROM CONTROLLER TO POLE UNSPLICED, ALL FOUR CONDUCTOR IMSA CABLES SHALL RUN FROM CONTROLLER TO DEVICE UNSPLICED.
9. SEPARATE STREET LIGHTING CONDUCTORS FROM SIGNAL CABLE AS MUCH AS POSSIBLE.
10. CONTRACTOR TO PURCHASE AND INSTALL ON POLE C 1 X WIFI RADIO. CONTACT FRANCISCO LEYVA AT 791-4259 FOR SPECIFICATIONS. ETHERNET CABLE TO RUN UNSPLICED FROM CABINET TO RADIO.

HDR
HDR Engineering, Inc.



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		2
DREXEL ROAD AND SANTA CLARA AVENUE HAWK CROSSING		OF
ORGN. BY: HAE, JSC	REF.	SCALE: F-20'
DSGN. BY: HAE		
CHKD. BY: MJB	PLAN NO. U-2006-013	

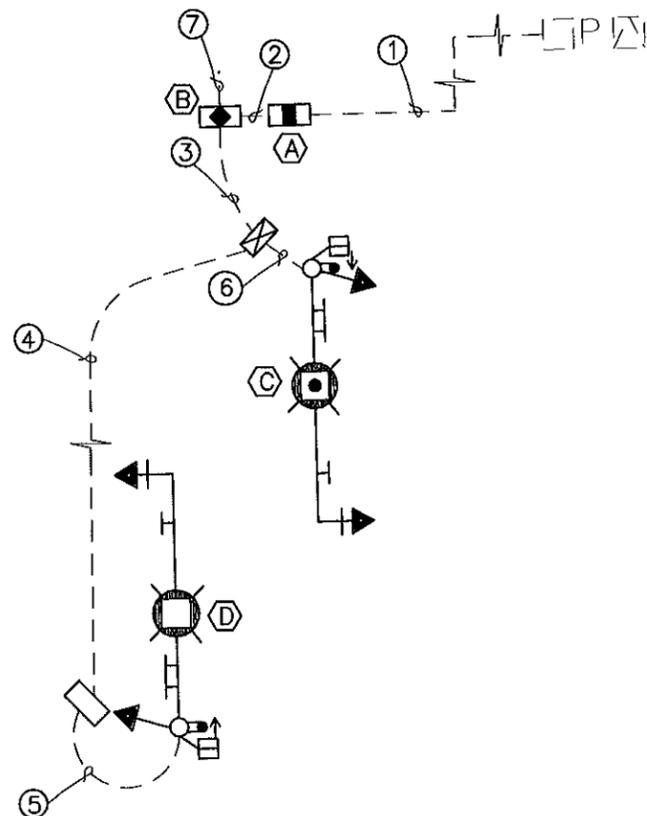
NO.	DATE	REVISION	BY	CHKD.	APPR.



Cabinet and Pole Schedule

TRAFFIC SIGNAL CONTROL					FOUNDATION	LUMINAIRE	REMARKS		
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER						
(A)		TS 1801			TS 18-1		50A/2P CB - HAWK 30A/1P CB - CK1 30A/1P CB - CK2 20A/1P - SPARE		
(B)		TYPE 49M SEE SPECIAL PROVISIONS FOR DETAIL	COT SUPPLIED	30A/2P LIGHTING CONTACTOR	TS 203 CONTRACTOR INSTALLED		CITY SUPPLIED CONTROLLER CABINET AND CONTROLLER, CONTRACTOR INSTALLED		
POLE		MAST ARM		SIGNALS		PED. P.B.			
NUMBER	TYPE	SIGNAL	LUMINAIRE	MOUNT'G	ASS'Y				
(C)		'0 T.S. 412	30'	20'	(1) II (1) V (1) XI	(2) MOD F SEE DTL SHT & SPECIAL PROVISIONS (1) PED	TYPE 1 2' ADA PPB R10-3BR1	400 WATT LUMINAIRE 120 VOLT, HPS CUTOFF TYPE PHOTOCELL ON POLE (C)	STA 13+62.47 TO RT, SEE SPECIAL PROVISIONS & DETAIL SHEET
(D)		'0 T.S. 412	30'	20'	(1) II (1) V (1) XI	(2) MOD F SEE DTL SHT & SPECIAL PROVISIONS (1) PED	TYPE 1 2' ADA PPB R10-3BL1	400 WATT LUMINAIRE 120 VOLT, HPS CUTOFF TYPE	STA 13+80.24 TO LT, SEE SPECIAL PROVISIONS & DETAIL SHEET

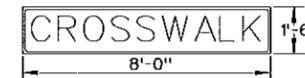
* INSTALL ILLUMINATED CROSSWALK SIGN.
** SIGNALS SHALL BE LED, PED INDICATORS SHALL BE LED INTERNATIONAL MAN/HAND WITH COUNTDOWN TIMER.



CABLE DIAGRAM
CC = Conductor Cable

Conduit and Conductor Schedule

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33				
CONDUIT SIZE IN INCHES	1/2"	1/2"	3/4"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"			
CIRCUIT PHASE																																					
16 Conductor MSA Cable																																					
BLACK-PED SIGNAL WALK																																					
WHITE-SIGNAL COMMON																																					
RED-A/O SIGNAL RED																																					
GREEN-A/O SIGNAL GREEN																																					
ORANGE-PED PUSH BUTTON																																					
BLUE-A/O SIGNAL YELLOW																																					
WHITE W/B-LOW VOLTAGE COMMON																																					
RED W/B-A/O AUX RED																																					
GREEN W/B-A/O AUX GREEN																																					
ORANGE W/B-SPARE (PED PUSH BUTTON)																																					
BLUE W/B-A/O AUX YELLOW																																					
BLACK W/W-PED SIGNAL DON'T WALK																																					
RED W/W-SPARE																																					
GREEN W/W-B/O LEFT TURN GREEN																																					
BLUE W/W-B/O L TURN YELLOW																																					
BLACK W/R-SPARE																																					
8 BARE																																					
EQUIPMENT GROUND																																					
10 XHHW																																					
PREEMPT BEACON HOT N/S																																					
PREEMPT BEACON HOT E/W																																					
BEACON NEUTRAL (WHITE)																																					
STREET LIGHT/SIGNS HOT (BLACK) CIRCUIT 1																																					
STREET LIGHT/SIGNS HOT (BLUE) CIRCUIT 2																																					
STREET LIGHT/SIGNS NEUTRAL (WHITE)																																					
6 THW																																					
POWER HOT																																					
POWER NEUTRAL																																					
4 Conductor Shielded Cable																																					
TELEPHONE INTERCONNECT																																					
3 Conductor Shielded Cable																																					
TO PHOTOCELL (BLACK)																																					
COMMON																																					
FROM PHOTOCELL (RED)																																					



INTERNALLY ILLUMINATED CROSSING SIGN (IICS)
N.T.S.

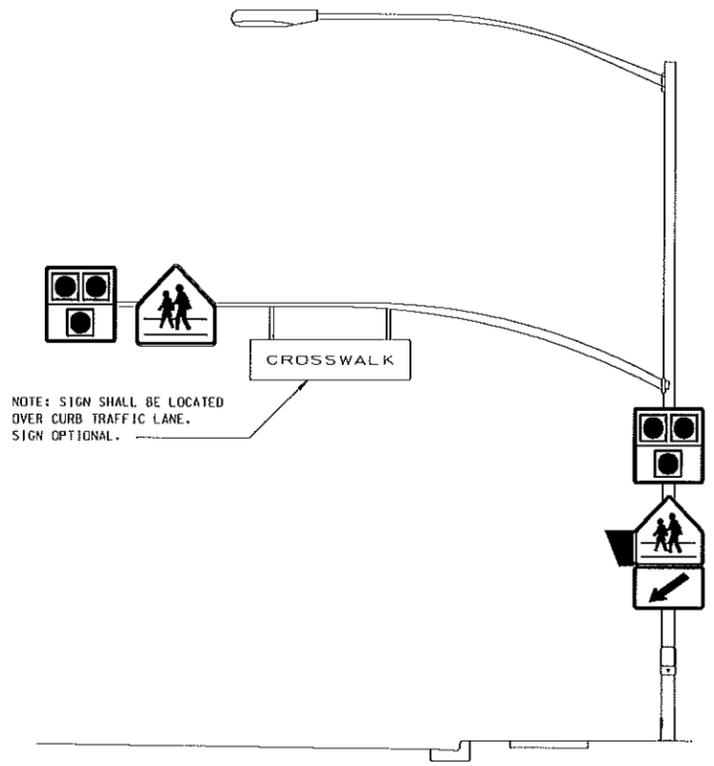


	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		3 OF 4
	POLE SCHEDULE & CONDUCTOR SCHEMATIC DREXEL RD & SANTA CLARA AVE		
	DRWN. BY HAE, JSC	REF.	SCALE: NTS
	DSGN. BY HAE, JSC	CHKD. BY MJH	PLAN NO. U-2006-013

NO.	DATE	REVISION	BY	CHKD.	APPR.
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

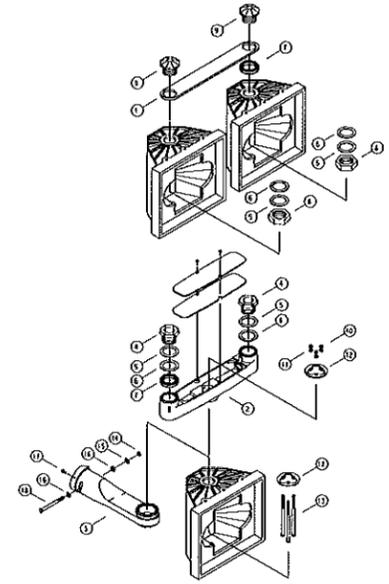
The working days before you do
CALL FOR THE BLUESTAKES
800-782-5348
Blue Stakes Center
CALL COLLECT



FLASHING BEACON DETAIL

ITEM DESCRIPTION

- ① Two-Way Tie Brace
- ② 2-Way Multi Mount with Gasket and Cover
- ③ Plumbizer
- ④ 1 1/2" Lock Nipple
- ⑤ Steel Flat Washer
- ⑥ Neoprene Washer
- ⑦ Sur-Loc Ring
- ⑧ Lock Nut
- ⑨ Ornamental Cap
- ⑩ 1/4" Hex Nut
- ⑪ 1/4" Lock Washer
- ⑫ Clover Leaf Clamp Washer
- ⑬ 1/4"-20 Carriage Bolt
- ⑭ 3/8" Hex Nut
- ⑮ 3/8" Lock Washer
- ⑯ 3/8" Flat Washer
- ⑰ 3/8"-16 Set Screw (3 ea)
- ⑱ 3/8"-16 x 4" Cap Screw



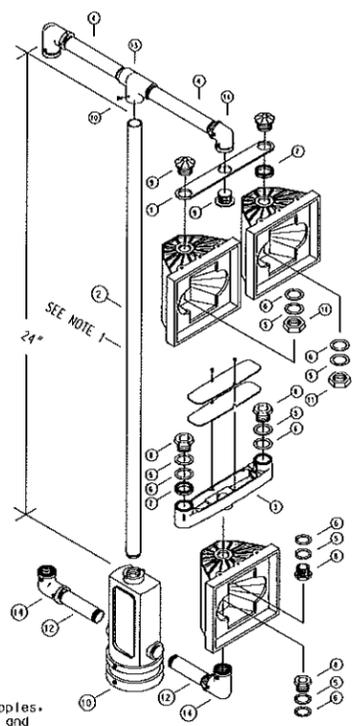
NOTE

1. Plumbizer, Multi-mount, Tie Brace and Signal Sections shall be Yellow.

MAST ARM TENON MOUNT ASSEMBLY FOR MODIFIED 'F' HEAD

ITEM DESCRIPTION

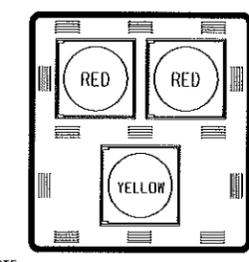
- ① Two-Way Tie Brace
- ② 1 1/2" x 24" Riser
- ③ 2 Way Multi Mount with Gasket and Cover
- ④ 1 1/2" x 7" Nipple (Two Req. For Type VII)
- ⑤ Steel Flat Washer
- ⑥ Neoprene Washer
- ⑦ Shur-Lock Ring Double Sided
- ⑧ 1 1/2" Lock Nipple
- ⑨ Ornamental Cap (Two Req. For Type VII)
- ⑩ 1/4"-20 Set Screw
- ⑪ Lock Nut
- ⑫ 1 1/2" x 6 1/2" Nipple (Two Req. For Type VII)
- ⑬ Slip Fit Tee for Two-Way Slip Fit Elbow for One-Way
- ⑭ Serrated Elbow(s)



NOTE

1. Terminal Compartment, Pipe Nipples, Elbows, Multi-mount, Tie Brace and Signal Sections shall be Yellow.

ONE WAY/TWO WAY POLE TOP MOUNTING ASSEMBLY FOR MODIFIED 'F' HEAD



2" yellow tape around border of backplate

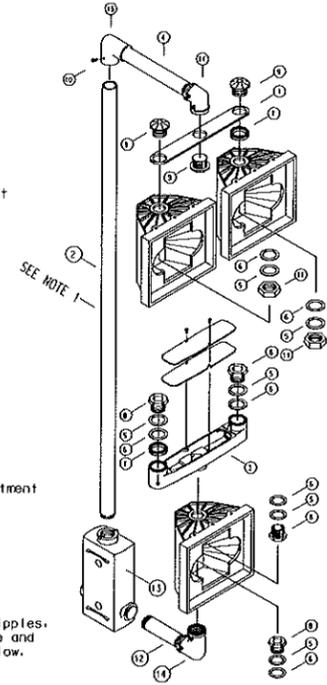
NOTE

1. 5" Border with 1/2" Reinforcing Bends Top, Sides and Bottom.

BACKPLATE DETAIL

ITEM DESCRIPTION

- ① Two-Way Tie Brace
- ② 1 1/2" x 24" Riser
- ③ 2 Way Multi Mount with Gasket and Cover
- ④ 1 1/2" x 18 1/2" Nipple
- ⑤ Steel Flat Washer
- ⑥ Neoprene Washer
- ⑦ Shur-Lock Ring Double Sided
- ⑧ 1 1/2" Lock Nipple
- ⑨ Ornamental Cap
- ⑩ 1/4"-20 Set Screw
- ⑪ Lock Nut
- ⑫ 1 1/2" x 18" Nipple
- ⑬ Side of Pole Terminal Compartment
- ⑭ Serrated Elbow
- ⑮ Slip Fit Elbow



NOTE

1. Terminal Compartment, Pipe Nipples, Elbows, Multi-mount, Tie Brace and Signal Sections shall be Yellow.

SIDE OF POLE LEFT OF DOOR MOUNTING ASSEMBLY FOR MODIFIED 'F' HEAD

FOR TRAFFIC SIGNAL CONSTRUCTION USE
TUCSON/PIMA COUNTY STANDARD DETAILS
2003 EDITION

HDR
HDR Engineering, Inc.



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		4 OF 4
SIGNAL DETAIL SHEET		
DREXEL RD & SANTA CLARA AVE		
CITY OF TUCSON	DRWN. BY HAE, JSC	REF. SCALE:
	DSGN. BY HAE, JSC	
	CHKD. BY MJB	PLAN NO. U-2006-013

NO.	DATE	REVISION	BY	CHKD.	APPR.

IU Memorial Stadium White Lot Passenger Waiting Facility (IU 20095866)

BRG Project No.: 6785

Preliminary Opinion of Probable Cost for Site Work

Prepared by Bledsoe Riggert & Guerrettaz, Inc. -- December 18, 2010

19th and Dunn Intersection Improvements

No.	Description	Quantity	Unit	Unit Price	Cost
1	Mobilization / Demobilization	1	LS	2,000.00	2,000.00
2	Layout	12	HR	110.00	1,320.00
3	Demolition - Saw Cut Asphalt Pavement	60	LF	2.50	150.00
4	Demolition - Remove Concrete Pavement	360	SF	1.85	666.00
5	Demolition - Paved Side Ditch	30	LF	12.00	360.00
6	Demolition - Remove Concrete Headwalls	2	EA	200.00	400.00
7	Construction - Stormwater Pollution Prevention - Silt Fence	150	LF	1.50	225.00
8	Construction - Stormwater Pollution Prevention - Concrete Washout	1	EA	250.00	250.00
9	Earthwork - Clearing, Stripping, Grading	90	CYD	5.00	450.00
10	Storm - Inlet Type 'J' with casting	2	EA	2,000.00	4,000.00
11	Storm - Manholes	2	EA	3,000.00	6,000.00
12	Storm - 12" HDPE Pipe	40	LF	24.00	960.00
13	Storm - 21" x 30" CMP	20	LF	100.00	2,000.00
14	Storm - Headwalls	2	EA	2,000.00	4,000.00
15	Earthwork - Fill	300	CYD	5.00	1,500.00
16	Concrete Curb	130	LF	20.00	2,600.00
17	Sidewalk - 4" #53 Stone	20	TON	18.00	360.00
18	Sidewalk - Concrete Pavement	540	SF	4.50	2,430.00
19	Sidewalk - ADA Compliant Ramps	5	EA	1,500.00	7,500.00
20	Pavement Repair	72	LF	10.00	720.00
21	Pavement Marking - Thermoplastic - Cross Walk - 6-inch	220	LF	2.00	440.00
22	Pavement Marking - Thermoplastic - Stop Bar - 24-inch	66	LF	8.00	528.00
23	HAWK Pedestrian Signal	1	LS	56,000.00	56,000.00
24	Topsoil	60	CYD	35.00	2,100.00
25	Fine Grade, Fertilize, and Sod Disturbed Areas	350	SYD	5.50	1,925.00
Total					98,884.00
Miscellaneous (10%)					9,888.40
					108,772.40
Rounded					110,000.00



Arlington Road

Pump Station

17th Street

Pump Station

Monroe Street