City of Birmingham
A Walkable Community

MEMORANDUM

Engineering Department

DATE: June 15, 2015

TO: Joseph A. Valentine, City Manager

FROM: Paul T. O'Meara, City Engineer

SUBJECT: Hamilton Alley Paving Project
Contract #9-15(P) Contract Award

Bids were opened on the above project on June 18, 2015. Three bids were received, as listed on the attached summary. The low bidder was Merlo Construction, with their bid of $325,880. The engineer's estimate was $330,000.

As discovered during the bid opening, there was an inconsistency with the low bidder's submittal. On projects of this nature, the Engineering Dept. routinely implements a prequalification process. All interested bidders are asked to submit a form answering several questions about their ability to complete the work, and who they intend to hire as a subcontractor. The form is required to be submitted about three days in advance of the bid opening, to give our office time to review and respond to the submittals. During the bidding period, only two prequalification forms were received and approved. Therefore, a maximum of two bids were expected. The low bidder's package included the prequalification form completed in a manner that would have allowed it to be approved, but it had never been submitted. In discussing the issue with the low bidder Merlo, they noted that they had never submitted a bid to Birmingham before, and missed the instructions relative to the prequalification form early submittal requirement.

Although they have never worked for Birmingham, a review of Merlo's history demonstrates that they have completed many similar or larger projects of varying complexity, and their references indicate that they are fully qualified to do this type of work. Given that they appear capable, and given that the second low bidder is significantly higher priced, we recommend that this inconsistency relative to the bid submittal be waived, and that the low bidder's price be accepted.

The project will include complete combined sewer and sanitary lead replacement, as well as new enhanced concrete pavement on the 18 foot wide alley extending from Hamilton Ave. to Park St., matching the conceptual plans previously approved by the City Commission, and attached to this report. Special amenities included in this project include the new "Via" theme wayfinding signs to be attached to street lights, and dumpster screens to be installed at three different locations where dumpsters in the alley currently sit.

The cost of the project will be charged to the following accounts:

Sewer Fund	590-536.001-981.0100	$ 85,095.00
Hamilton Alley Special Assessment	101-444.002-985.7100	$240,785.00
TOTAL		$325,880.00

Although the total cost of the project is very close to the engineer's estimate, the share of the cost being apportioned to the special assessment district is larger than expected. That translates to a larger special assessment than expected. In addition, this project is unique compared to other paving projects due to its downtown nature, its unique pavement, and its special amenities (signs, dumpster screens) which made the cost of this job difficult to anticipate. All of these factors combined resulted in a larger cost per property than expected. The amended assessment roll has been attached for your reference. Most property assessments will be about 45% higher than estimated, while those with dumpster screens will be anywhere from 56% to almost 79% higher than estimated.

City Code Section 94-13(b) states that should the actual amount of the assessment exceed more than 25% over the amount confirmed in the roll, the property owners must be notified, and a new public hearing must be held before the project proceeds. That being the case, it is recommended that a public hearing be scheduled as soon as possible, and that the award of this contract be postponed until that hearing has been held, should the Commission decide to proceed with the project. A resolution to that effect is provided below.

The City will also contribute to the district costs for the three properties it owns. Using the charges based on this contract, the two passageway properties will be charged to the General Fund, while the Parking Lot #9 frontage will be charged to the Parking Fund:

General Fund Assessments	$ 6,934.08
Auto Parking System Fund Assessment	$16,578.23
TOTAL	$23,512.31

One factor that helps offset the costs above are lower than estimated sewer lateral assessments. Those costs are discussed in a separate memo.

SUGGESTED RESOLUTION:

RESOLVED, that the City Commission shall meet on Monday, July 27, 2015 at 7:30 P.M., for the purpose of conducting a public hearing to consider adjusting the roll within the Hamilton Alley Paving Project area. Should the district again be confirmed at that time, then the Commission can consider proceeding with the contract award to Merlo Construction Co.

CITY OF BIRMINGHAM

HAMILTON ALLEY RECONSTRUCTION

CONTRACT #9-15(P)

BID SUMMARY

June 18, 2015 - 9:00 AM

Company Name	Addenda No.	5% Bid Security	Total Bid
ADJ Excavating, Inc.	N / A	Bond	$562,060.00
DiPonio Contracting, Inc.	N / A	Bond	$601,005.00
Merlo Construction Co.	N / A	Bond	$325,880.00

HAMILTON ALLEY - HAMILTON AVE. TO PARK ST.
Paving Special Assessment District

(A)	(B)	(C)	(E)	(F)					
SIDWELL NO.	PARCEL ADDRESS	FRONT	COL. C COST PER FRONT FOOT	DUMPSTER SCREEN COST	TOTAL ESTIMATED ASSESSMT	PROPOSED ASSESSMT (AFTER BID)	ACTUAL DUMPSTER SCREEN COST	TOTAL ACTUAL ASSESSMT	% INCREASE OVER ESTIMATE
HAMILTON ALLEY		LFT	$ 200.00	$2,000.00		$288.92	$4,600.00		
SOUTH SIDE									
19-25-456-001	188 N. Old Woodward Ave.	38.08	$ 7,616.00		$7,616.00	$11,002.07		$11,002.07	44.5
19-25-456-002	152-162 N. Old Woodward Ave.	29.96	$ 5,992.00		$5,992.00	$8,656.04		$8,656.04	44.5
19-25-456-039	100-136 N. Old Woodward Ave.	45.83	$ 9,166.00		$9,166.00	$13,241.20		$13,241.20	44.5
19-25-456-017	135 E. Maple Rd.	30.71	$ 6,142.00		$6,142.00	$8,872.73		$8,872.73	44.5
19-25-456-018	205-213 E. Maple Rd.	41.5	$ 8,300.00		$8,300.00	$11,990.18		$11,990.18	44.5
19-25-456-019	225 E. Maple Rd.	29.78	$ 5,956.00	$4,000.00	$9,956.00	$8,604.04	$9,200.00	$17,804.04	78.8
19-25-456-020	City Walkway	20	$ 4,000.00		$4,000.00	$5,778.40		$5,778.40	44.5
19-25-456-035	261 E. Maple Rd.	62.5	$ 12,500.00	$2,000.00	$14,500.00	$18,057.50	$4,600.00	$22,657.50	56.3
19-25-456-023	323 E. Maple Rd.	62.5	$ 12,500.00	$0.00	$12,500.00	$18,057.50	$0.00	$18,057.50	44.5
19-25-456-024	335 E. Maple Rd.	30.31	$ 6,062.00		$6,062.00	$8,757.17		$8,757.17	44.5
19-25-456-034	355 E. Maple Rd.	40	$ 8,000.00		$8,000.00	$11,556.80		$11,556.80	44.5
19-25-456-027	361 E. Maple Rd.	20.62	$ 4,124.00		$4,124.00	$5,957.53		$5,957.53	44.5
19-25-456-028	369 E. Maple Rd.	22.38	$ 4,476.00		$4,476.00	$6,466.03		$6,466.03	44.5
19-25-456-029	395 E. Maple Rd.	49.41	$ 9,882.00		$9,882.00	$14,275.54		$14,275.54	44.5
NORTH SIDE									
19-25-456-007	220 Hamilton Ave.	197.74	$ 39,548.00		$39,548.00	$57,131.04		$57,131.04	44.5
19-25-456-040	City Walkway	4	$ 800.00		$800.00	$1,155.68		$1,155.68	44.5
19-25-456-041	300 Hamilton Ave.	46	$ 9,200.00	$2,000.00	$11,200.00	$13,290.32	$4,600.00	$17,890.32	59.7
19-25-456-009	330 Hamilton Ave.	52.15	$ 10,430.00	$2,000.00	$12,430.00	$15,067.18	$4,600.00	$19,667.18	58.2
19-25-456-010	344 Hamilton Ave.	25.03	$ 5,006.00		$5,006.00	$7,231.67		$7,231.67	44.5
19-25-456-011	360 Hamilton Ave.	25.03	$ 5,006.00		$5,006.00	$7,231.67		$7,231.67	44.5
19-25-456-044	400 Hamilton Ave.- Unit 1	12.52	$ 2,504.00		$2,504.00	$3,617.28		$3,617.28	44.5
19-25-456-044	400 Hamilton Ave.- Unit 2	12.52	$ 2,504.00		$2,504.00	$3,617.28		$3,617.28	44.5
19-25-456-044	400 Hamilton Ave.- Unit 3	12.52	$ 2,504.00		$2,504.00	$3,617.28		$3,617.28	44.5
19-25-456-044	400 Hamilton Ave.- Unit 4	12.52	$ 2,504.00		$2,504.00	$3,617.28		$3,617.28	44.5
19-25-456-042	City Parking Lot #9	57.38	$ 11,476.00		$11,476.00	$16,578.23		$16,578.23	44.5
TOTAL		$ 980.99	$ 196,198.00	$10,000.00		$237,916.95	$23,000.00	$260,916.95	

Sec. 94-13. Adjustments and corrections.

(a) Excessive assessments.

(1) The excess by which any special assessment proves larger than the actual cost of the improvement and expenses incidental thereto may be placed in the general fund of the city if such excess is five percent or less of the assessment.

(2) Should the assessment prove larger than necessary by more than five percent, the entire excess shall be refunded on a pro rata basis according to assessments to the owners of the property assessed as shown by the current assessment roll of the city, provided, however, no refunds shall be made of less than $20.00.

a. Such refund shall be made by credit against future unpaid installments to the extent any installments are remaining, and the balance, if any, of such refund shall be in cash.

b. No refunds may be made which contravene the provisions of any outstanding evidence of indebtedness secured in whole or in part by such special assessment.

(b) Additional pro rata assessments may be made when any special assessment roll proves insufficient to pay for the actual cost of the improvement for which it was levied and the expenses incident thereto, provided that the additional pro rata assessment shall not exceed 25 percent of the total assessment originally confirmed unless a public hearing before the commission is first held to review and confirm such additional assessment, for which hearing notices shall be published and mailed as provided in the case of review of the original special assessment roll.

(c) Invalid assessments.

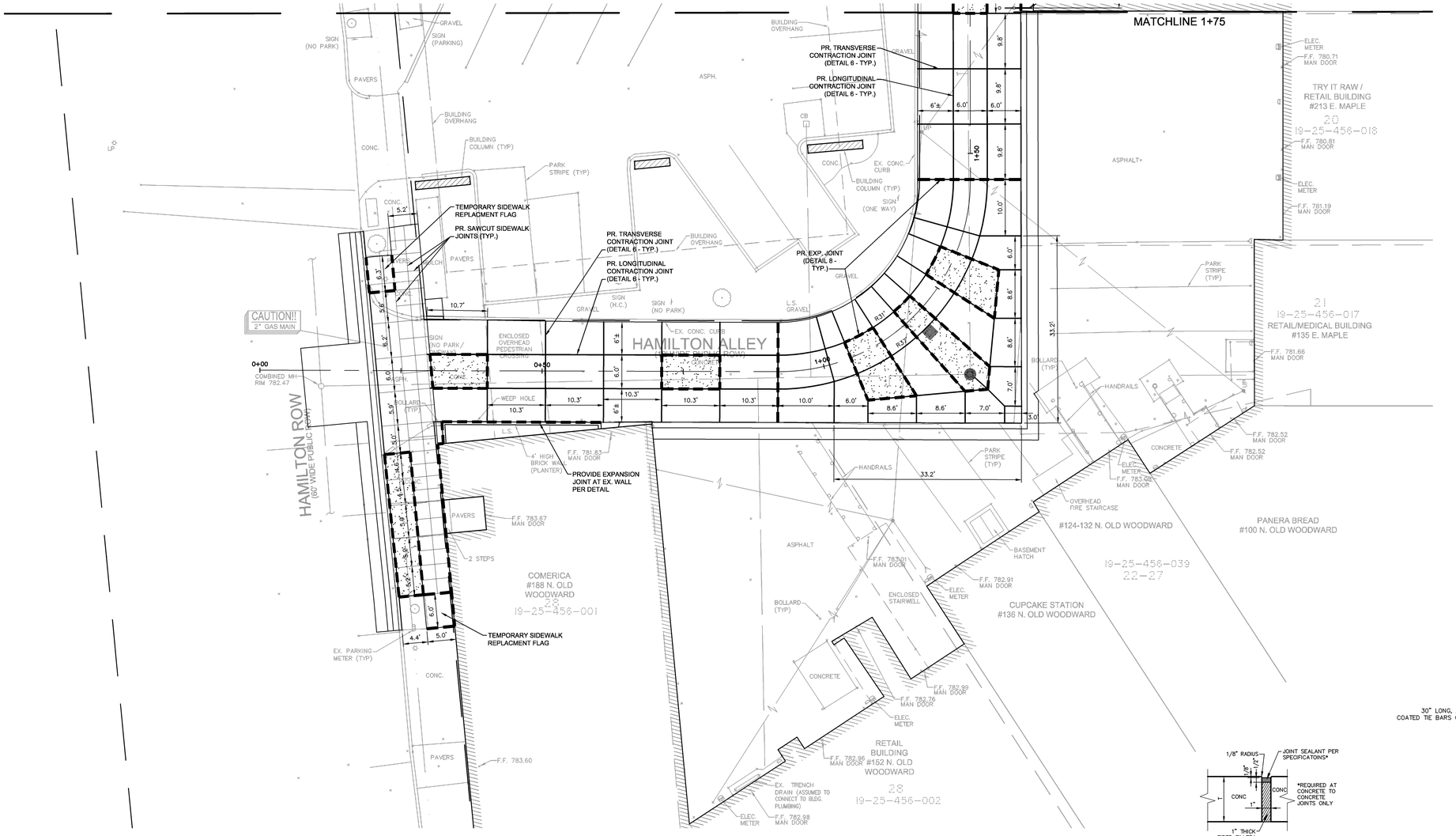
(1) whenever any special assessment shall, in the opinion of the commission, be incorrect or invalid by reason of any irregularity or informality in the proceedings, or if any court or tribunal of competent jurisdiction shall adjudge the assessment to be illegal, the commission may, regardless of whether the improvement has been made or not, or whether any part of the assessment has been paid or not, cause a new assessment to be made for the same purpose for which the former assessment was made.

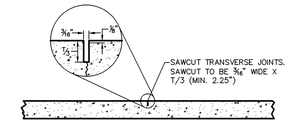
(2) All proceedings on such reassessment and for the collection thereof shall be conducted in the same manner as provided for the original assessment.

(3) Whenever any sum or part thereof levied upon any property under the assessment so set aside has been paid and not refunded, the payment so made shall be applied upon the reassessment or if the payments exceed the amount of the reassessment, refunds shall be made.

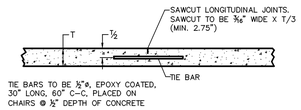
(4) No judgment or decree nor any act of the commission vacating a special assessment shall destroy or impair the lien of the city upon the premises assessed for such amount of the assessment as may be equitably charged against the same or as by regular mode of proceeding might have been lawfully assessed thereupon.

(Ord. No. 1637, 3-24-97)





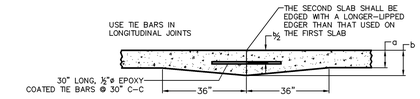
TRANSVERSE



LONGITUDINAL

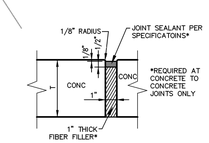
6 CONTRACTION JOINT

SLAB DESIGNATION	"a"	"b"
6"	6"	8"
7"	7"	9"
7-1/2"	7-1/2"	10"
8"	8"	11"
9"	9"	12"

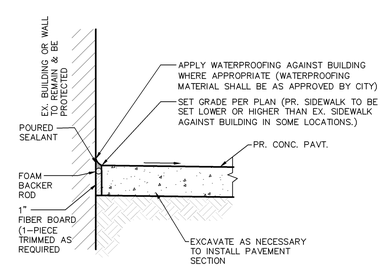


NOTE:
CONSTRUCTION JOINT TO BE UTILIZED AT ALL END OF POUR JOINTS

5 CONSTRUCTION JOINT

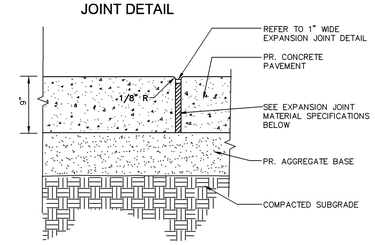


1" WIDE EXPANSION JOINT DETAIL



JOINT DETAIL AT BUILDING OR WALL

N.T.S.



EXPANSION JOINT MATERIAL SPECS:

1. EXPANSION JOINT MATERIAL: RESILIENT, NON-EXTRUDING TYPE PRE-MOLDED BITUMINOUS IMPREGNATED FIBERBOARD.

2. SEALANT BACKER ROD: COMPRESSIBLE ROD STOCK OF POLYETHYLENE FOAM OR OTHER FLEXIBLE, PERMANENT, DURABLE NON-ABSORPTIVE MATERIAL AS RECOMMENDED FOR COMPATIBILITY BY SEALANT MANUFACTURER. TEMPORARILY INSTALL ABOVE FIBER BOARD TO CREATE SPACE FOR JOINT SEALANT AT THE APPROPRIATE GRADE. REMOVE PRIOR TO INSTALLING JOINT SEALANT.

3. JOINT SEALANT: TWO PART POLYSULFIDE SEALANT, SELF LEVELING, LIGHT GRAY COLOR. SUBMIT COLOR SAMPLE FOR APPROVAL. FEDERAL SPECIFICATIONS TT-S-00227E, TYPE 1, DOW CORNING #780 OR EQUAL. INSTALL AFTER REMOVING BACKER ROD TO COMPLETELY COVER FIBER BOARD.

8 EXPANSION JOINT DETAIL FOR CONCRETE PAVEMENT

N.T.S.

PAVEMENT JOINT NOTES

REFER TO THE CITY OF BIRMINGHAM STANDARD PAVING DETAILS FOR ALL JOINT DETAILS.

INSTALL DETAIL #6 JOINTS FOR ALL TRANSVERSE JOINTS.

EXPANSION JOINTS SHALL BE 1", UNLESS OTHERWISE DIRECTED BY THE CITY.

TRANSVERSE SIDEWALK EXPANSION JOINTS SHALL BE PLACED EVERY FIFTY (50) FEET OR AS OTHERWISE DIRECTED BY THE CITY.

UTILITY NOTE

THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LEGEND

- EXISTING SAN/COMB SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- OVERHEAD LINES
- RECORD CURB STOP LOCATION (APPROX.)
- L/S LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- ×000.00 GROUND ELEVATION

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

PROJECT
Hamilton Alley
Paving Project
Contract #9-15(P)

CLIENT
City of Birmingham
A Walkable Community
Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the SE 1/4 of Section 25, Town 2 North, Range 10 East, City of Birmingham, Oakland County, Michigan

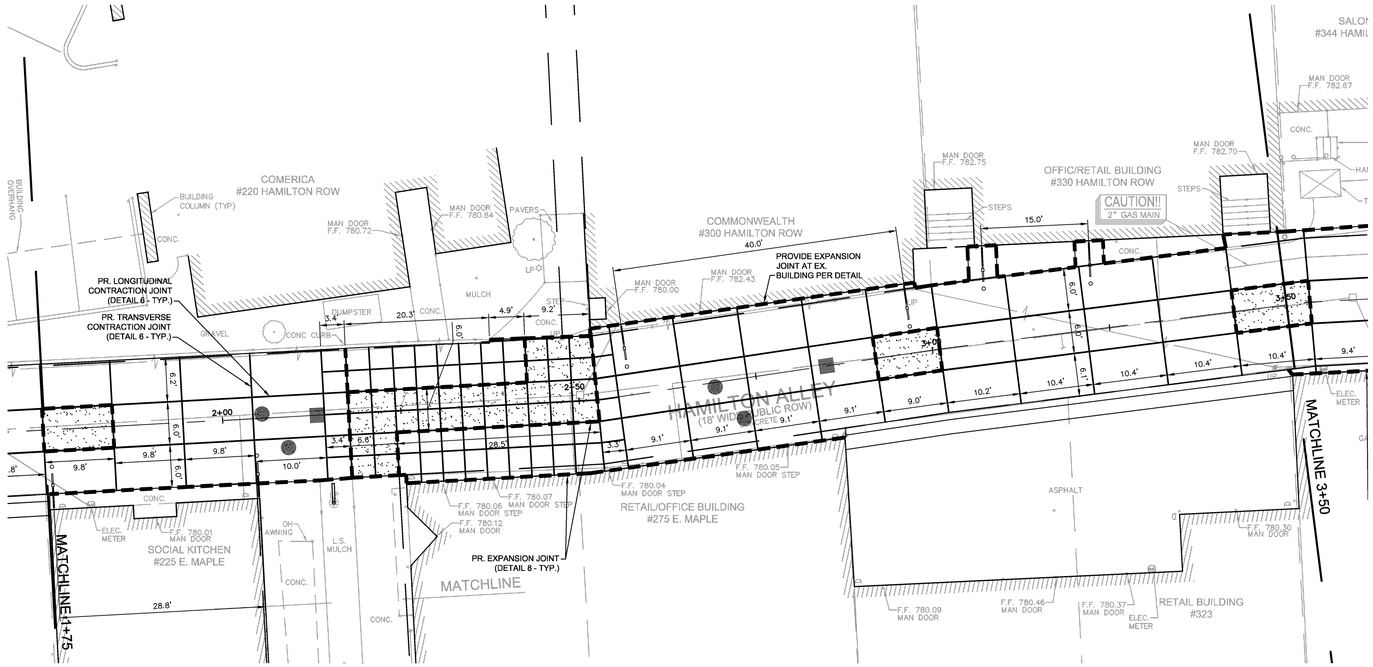
SHEET
Joint Layout & Dimension Plan
Sta. P.O.B. to 1+75

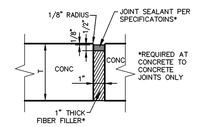
811 Know what's below Call before you dig.

REVISIONS
05-29-15 For Bid

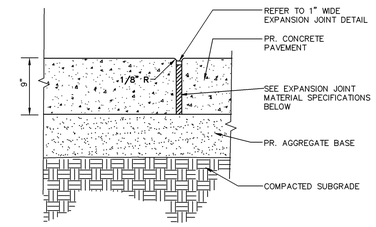
DRAWN BY: P. Tulikangas
DESIGNED BY: P.T./B.B.
APPROVED BY: B. Buchholz
DATE: March 31, 2014
SCALE: H. 1" = 10' V. 1"=2'

NFE JOB NO. I414
SHEET NO. C4





1" WIDE EXPANSION JOINT DETAIL



EXPANSION JOINT MATERIAL SPECS:
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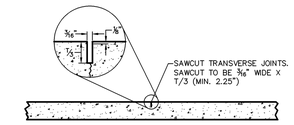
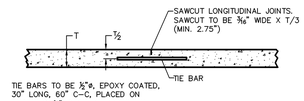


TRANSVERSE



TIE BARS TO BE 5/8"ø, EPOXY COATED, 30" LONG, 60" C-C, PLACED ON CHAIRS @ 1/2" DEPTH OF CONCRETE

LONGITUDINAL

6 CONTRACTION JOINT

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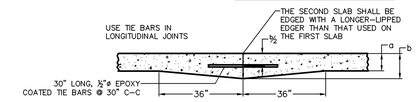

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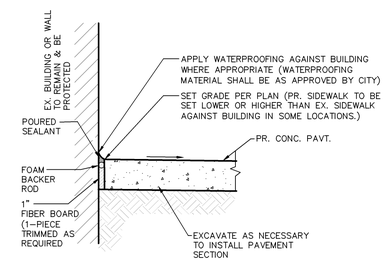
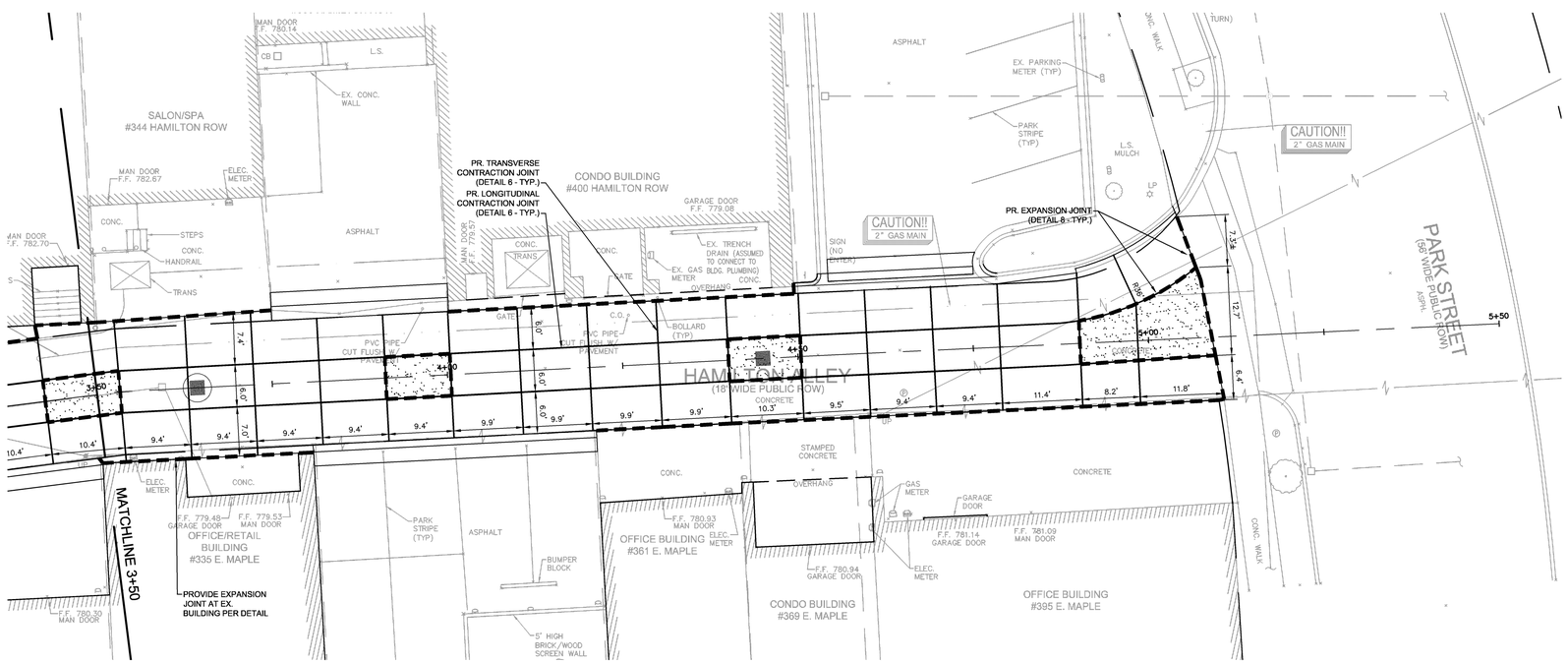


JOINT DETAIL AT BUILDING OR WALL
N.T.S.



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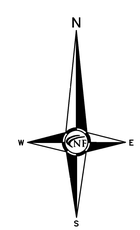

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LEGEND

- CLEAN-OUT / MANHOLE COMB / SAN — EXISTING SAN/COMB SEWER
- SHUTOFF / GVW / HYDRANT — EXISTING WATER MAIN
- R/CB / MANHOLE / CB / END SECTION — EXISTING STORM SEWER
- ELEC. METER / ELECTRIC MANHOLE / TELEPHONE MANHOLE — EXISTING BURIED CABLES
- GAS METER / R/CB GAS MARKER / GV GAS VALVE — EXISTING GAS MAIN
- UTILITY POLE / STRAIN POLE / LIGHT POLE / GUY WIRE — OVERHEAD LINES
- RECORD CURB STOP LOCATION (APPROX.)
- L/S LANDSCAPE BED
- EX. SOIL BORING
- PUBLIC PHONE
- WELL
- PUMP
- SIGN
- POST/BOLLARD
- PARKING METER
- MAIL BOX
- ROCK/BOULDER
- SPRINKLER VALVE BOX
- SPRINKLER HEAD
- FOUND PROPERTY MARKER
- ×000.00 GROUND ELEVATION

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

PROJECT
Hamilton Alley
Paving Project
Contract #9-15(P)

CLIENT
City of Birmingham
A Walkable Community
Engineering Department
151 Martin Street
Birmingham, MI 48012

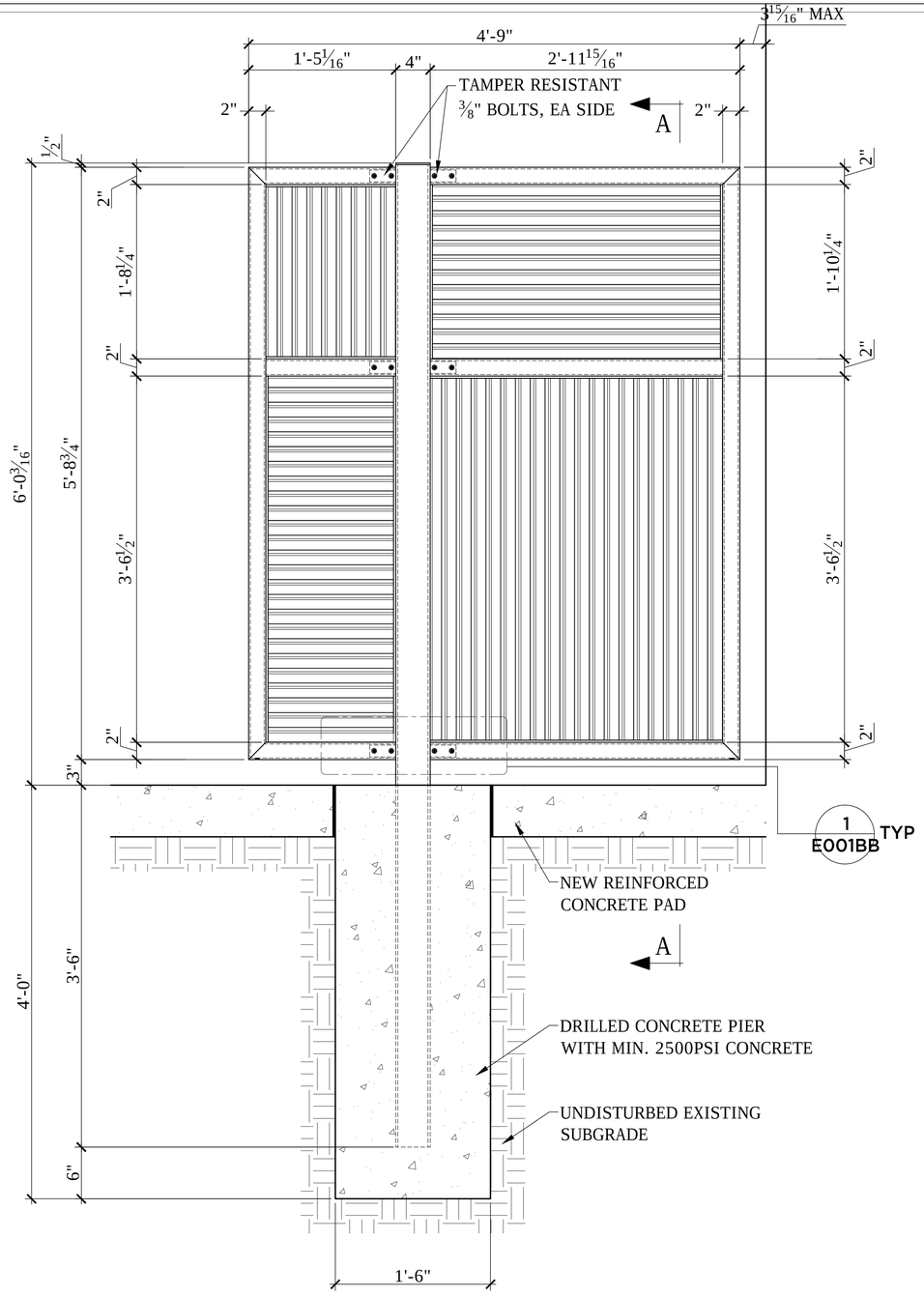
PROJECT LOCATION
Part of the SE 1/4 of Section 25, Town 2 North, Range 10 East, City of Birmingham, Oakland County, Michigan

SHEET
Joint Layout & Dimension Plan
Sta. 1+75 to P.O.E.

811 Know what's below Call before you dig.

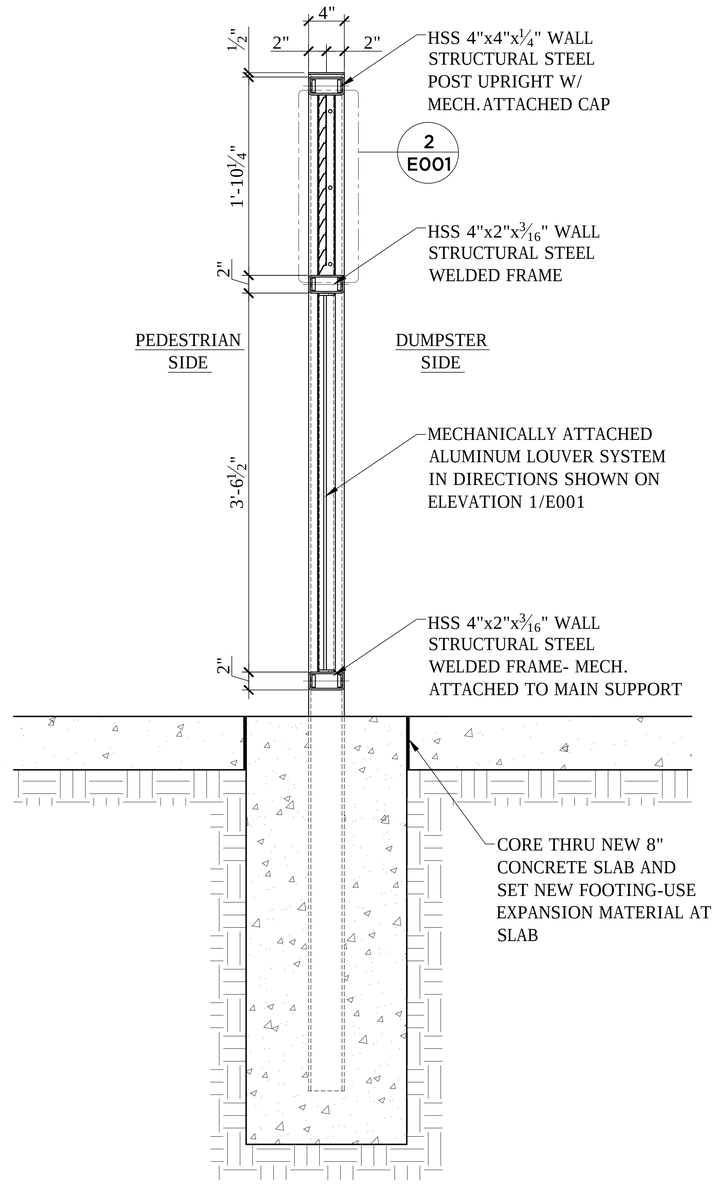
REVISIONS
05-29-15 For Bid

DRAWN BY: P. Tulikangas
DESIGNED BY: P.T./B.B.
APPROVED BY: B. Buchholz
DATE: March 31, 2014
SCALE: H. 1" = 10' V. 1"=2'
NFE JOB NO. I414
SHEET NO. C5



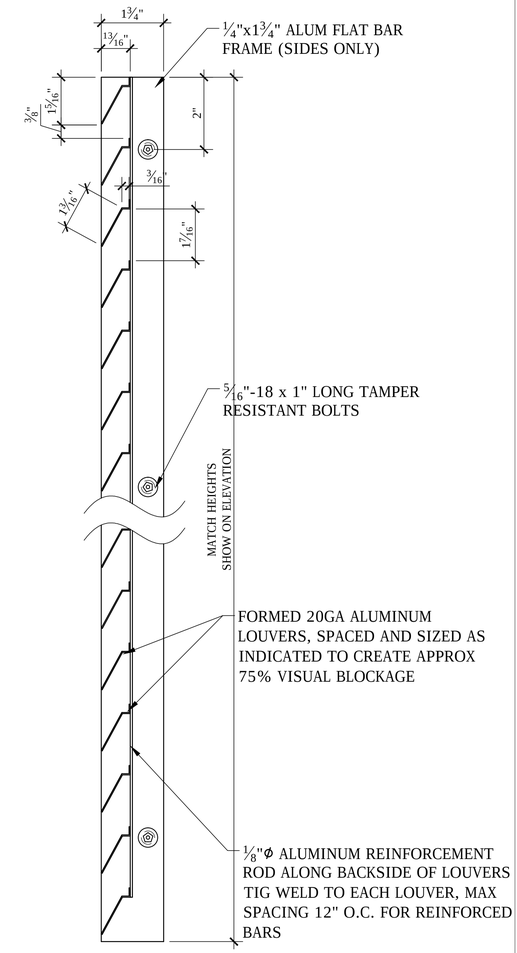
1 DUMPSTER SCREEN ELEVATION

Scale: 1 1/2"=1'-0"



SECTION A-A

SCALE : 1 1/2" = 1'-0"



2 LOUVER SECTION DETAIL

Scale: 6"=1'-0"

FUTURE FABRICATING

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23450 REGENCY PARK DRIVE

WARREN, MI 48089

PHONE (586)-755-7080

FAX (586)-755-7456

www.futurefabricating.com

AISC & SSPC CERTIFIED PLANT

JOB NUMBER:

14-2228

PROJECT NAME:

HAMILTON ALLEY WAY

CUSTOMER:

NOWAK & FRAUS

TYPICAL NOTES- STEEL:

- ALL BARS, PLATES, AND SHAPES ARE GRADE ASTM A 36, UN. NTD.
- ALL TUBE IS ASTM A 500, GR. B, UN. NTD.
- ALL PIPE IS ASTM A 53, UN. NTD.
- ALL WELDS ARE PER AWS D1.1 "STRUCTURAL WELDING CODE - STEEL."
- WELDS ARE COMPLIANT WITH NOMMA'S "VOLUNTARY JOINT FINISH GUIDELINES" FOR FINISH #3 - "PARTIALLY DRESSED WITH SPATTER REMOVED," UN. NTD.
- HARDWARE SUPPLIED MILL-FINISH, UN. NTD.
- REVIEW ALL MANUFACTURER INSTRUCTIONS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT AND INCORPORATE ANY ADDITIONAL NOTES FOUND BELOW.
- VENT HOLES WHERE REQUIRED

TYPICAL NOTES- ALUMINUM:

- ALL ALUMINUM SHAPES ARE ALLOY 6061 OR 6063, AS RECOMMENDED BY THE MANUFACTURER, UN. NTD.
- ALL WELDS ARE PER AWS D1.2 "STRUCTURAL WELDING CODE - ALUMINUM."
- WELDS ARE COMPLIANT WITH NOMMA'S "VOLUNTARY JOINT FINISH GUIDELINES" FOR FINISH #3 - "PARTIALLY DRESSED WITH SPATTER REMOVED," UN. NTD.
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TYPICAL NOTES- COATING:

- SWEEP BLAST FABRICATED ALUMINUM BARS AND SHAPES PER SSPC SP-5/ NACE 1 "WHITE METAL BLAST CLEANING"
- HOT DIP GALVANIZE AFTER FABRICATION ALL STEEL MATERIALS PER ASTM A 123.
- SWEEP BLAST FABRICATED GALVANIZED STEEL BARS AND SHAPES PER SSPC-SP7/ NACE 4 "BRUSH-OFF BLAST CLEANING" FOR GALVANIZED STEEL
- COATING APPLICATIONS AS FOLLOWED FOR ALUMINUM AND STEEL PRODUCT, CONSULT MANUFACTURERS SPECIFICATIONS FOR PRODUCT SPECIFIC DETAILS:
  - PRIME COAT 3.0-5.0DFT POLYAMIDOAMINE EPOXY. PRODUCT: TNEMEC HI-BUILD EPOXOLINE II N69
  - TOP COAT 2.0-3.0DFT ALIPHATIC ACRYLIC POLYURETHANE. PRODUCT: TNEMEC ENDURA-SHIELD II SERIES 1074U. COLOR TO BE SELECTED FROM MANUFACTURERS LIST OF AVAILABLE NON-METALLIC COLORS. ANTICIPATED MEDIUM TO DARK GREY COLOR.
- AFTER FULLY CURED, WRAP AND PROTECT FROM SHIPPING OR ERECTION DAMAGED.
- USE BOTH PRODUCTS IN CAN FORM TO TOUCH UP MARRED OR DAMAGED SURFACES WITH APPROPRIATE APPLICATORS.

COATINGS	
GALVANIZED:	☒
PRIME COAT:	☒
INTERMEDIATE:	☐
TOP COAT:	☒
POWDER COAT:	☐
ANODIZED:	☐
RAW:	☐
POLISHED: #4	☐

REV #	DATE	DESCRIPTION
B	3/19/15	REVISED PER MEETING
A	2/20/15	SUBMITAL FOR REVIEW

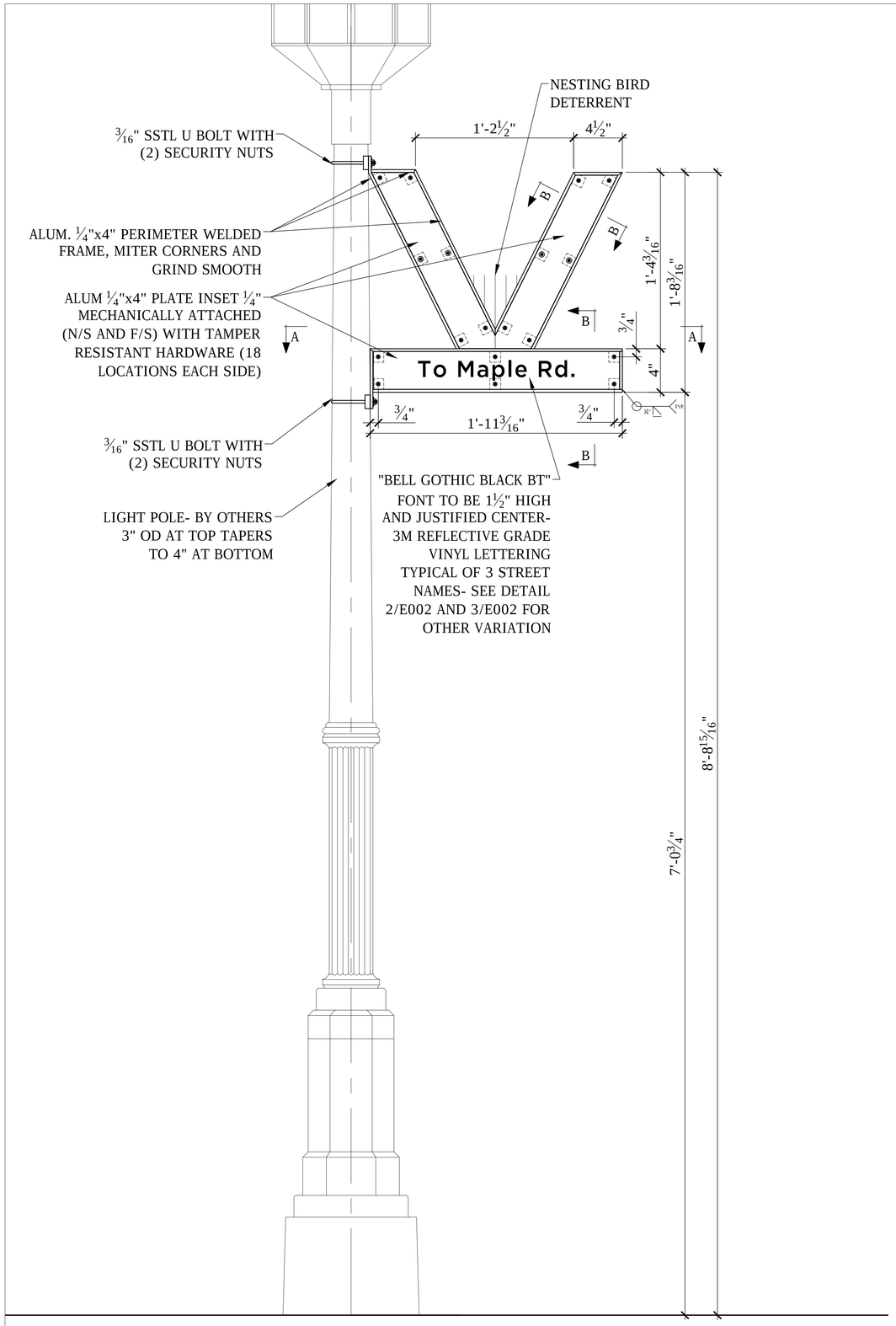
DRAWN BY:	CHECKED BY:	FIELD MEASURED:
CA	GAR	TBD
DATE: 2/20/15	DATE: 2/20/15	DATE: TBD

SHEET TITLE:

PRELIMINARY DUMPSTER SCREEN DESIGN

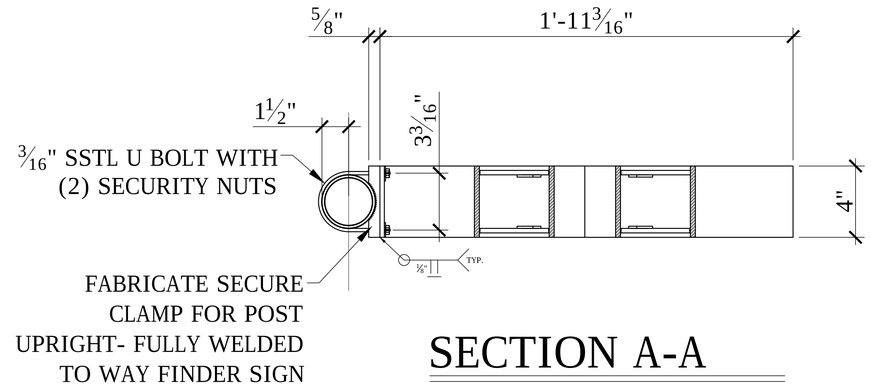
SHEET NUMBER:

E001AB



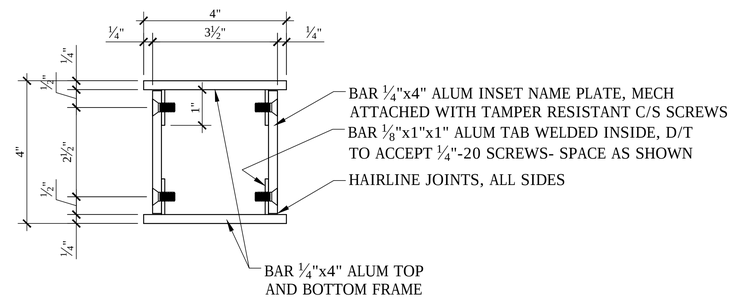
1 WAYFINDER SIGN ELEVATION

Scale: NTS



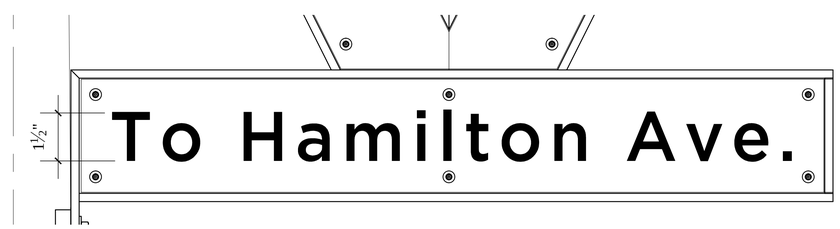
SECTION A-A

SCALE : 3" = 1'-0"



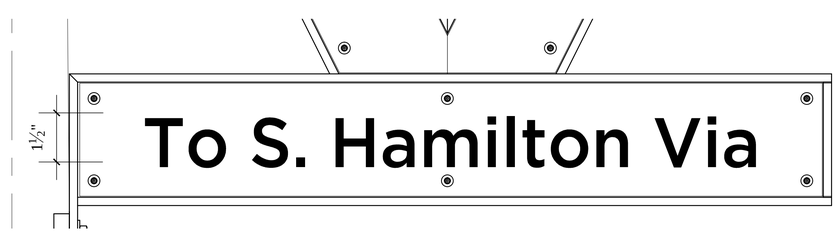
SECTION B-B

SCALE : 6" = 1'-0"



2 TEXT FOR SIGNAGE

Scale: NTS



3 TEXT FOR SIGNAGE

Scale: NTS

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  - AFTER FULLY CURED, WRAP AND PROTECT FROM SHIPPING OR ERECTION DAMAGED.
  - USE BOTH PRODUCTS IN CAN FORM TO TOUCH UP MARRED OR DAMAGED SURFACES WITH APPROPRIATE APPLICATORS.

TYPICAL NOTES- LETTERING:
- USE 3M OR SIMILAR BRANDED REFLECTIVE EXTERIOR GRADE VINYL FOR LETTERING, FOLLOW RECOMMENDED MANUFACTURERS DIRECTIONS FOR PROPER ADHESION.

COATINGS
- GALVANIZED: ☐
- PRIME COAT: ☒
- INTERMEDIATE: ☐
- TOP COAT: ☒
- POWDER COAT: ☐
- ANODIZED: ☐
- RAW: ☐
- POLISHED: #4 ☐

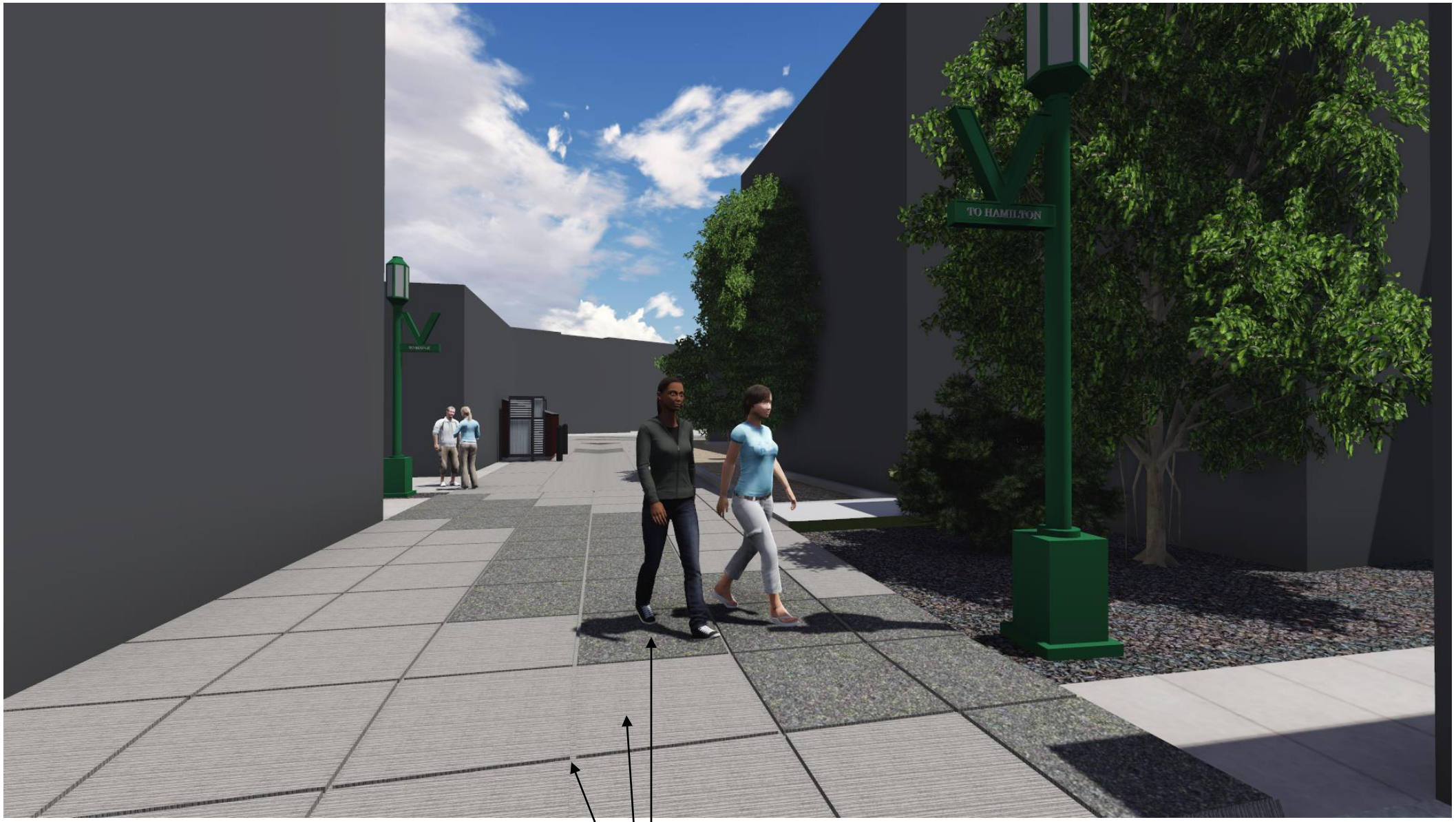
REV #	DATE	DESCRIPTION
B	3/19/15	REVISED PER MEETING
A	2/20/15	SUBMITAL FOR REVIEW

DRAWN BY:	CHECKED BY:	FIELD MEASURED:
CA	GAR	TBD
DATE: 2/20/15	DATE: 2/20/15	DATE: TBD

SHEET TITLE: PRELIMINARY WAY FINDER SIGN DESIGN

SHEET NUMBER: E002

5



EXPOSED AGGREGATE CONCRETE

BROOM FINISHED CONCRETE

RAISED CROSSWALK CROSSING

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ARCHITECTS
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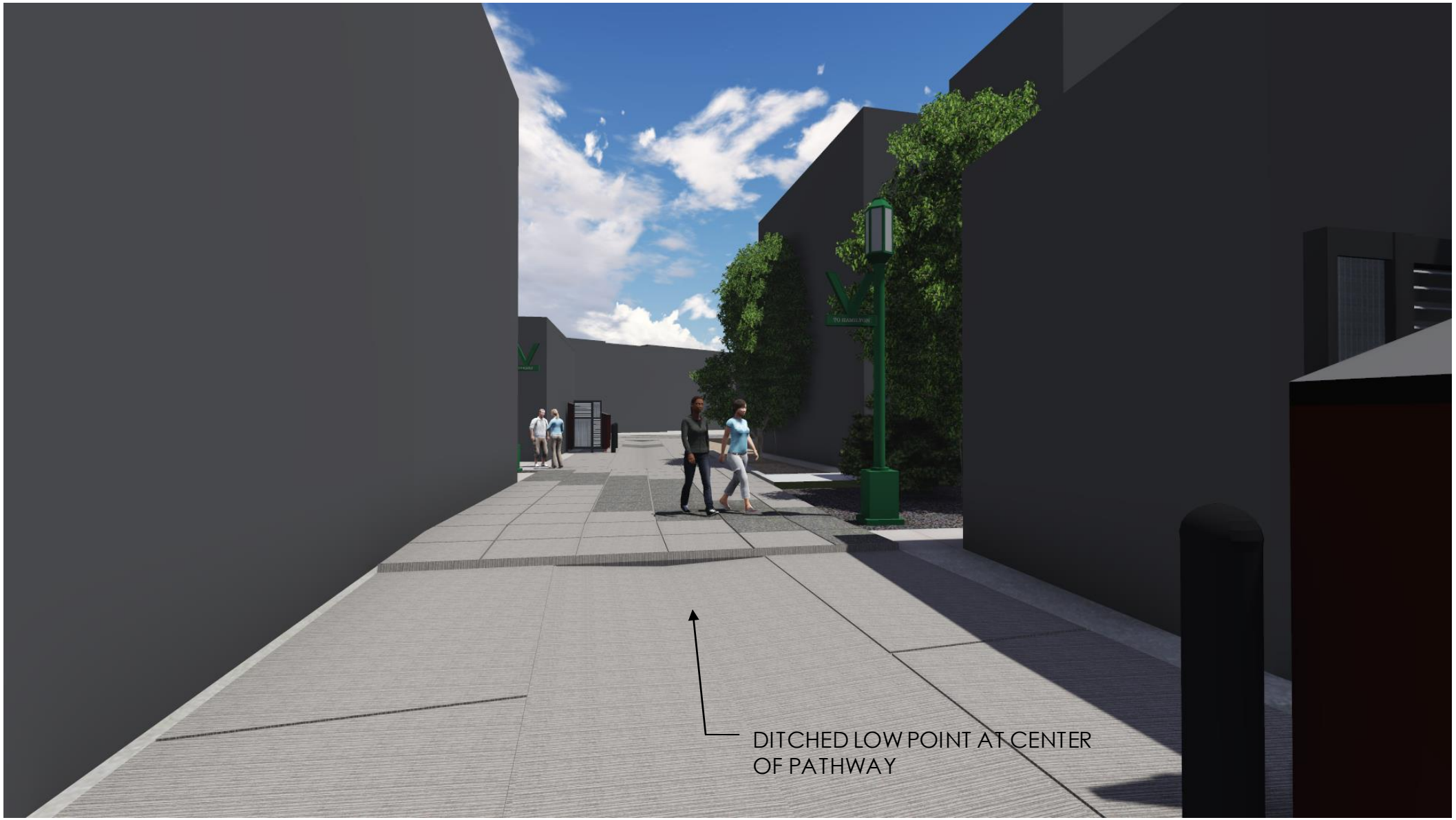
HAMILTON ALLEY

PEDESTRIAN CROSSWALK

6



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HAMILTON ALLEY

ALLEY PATHWAY

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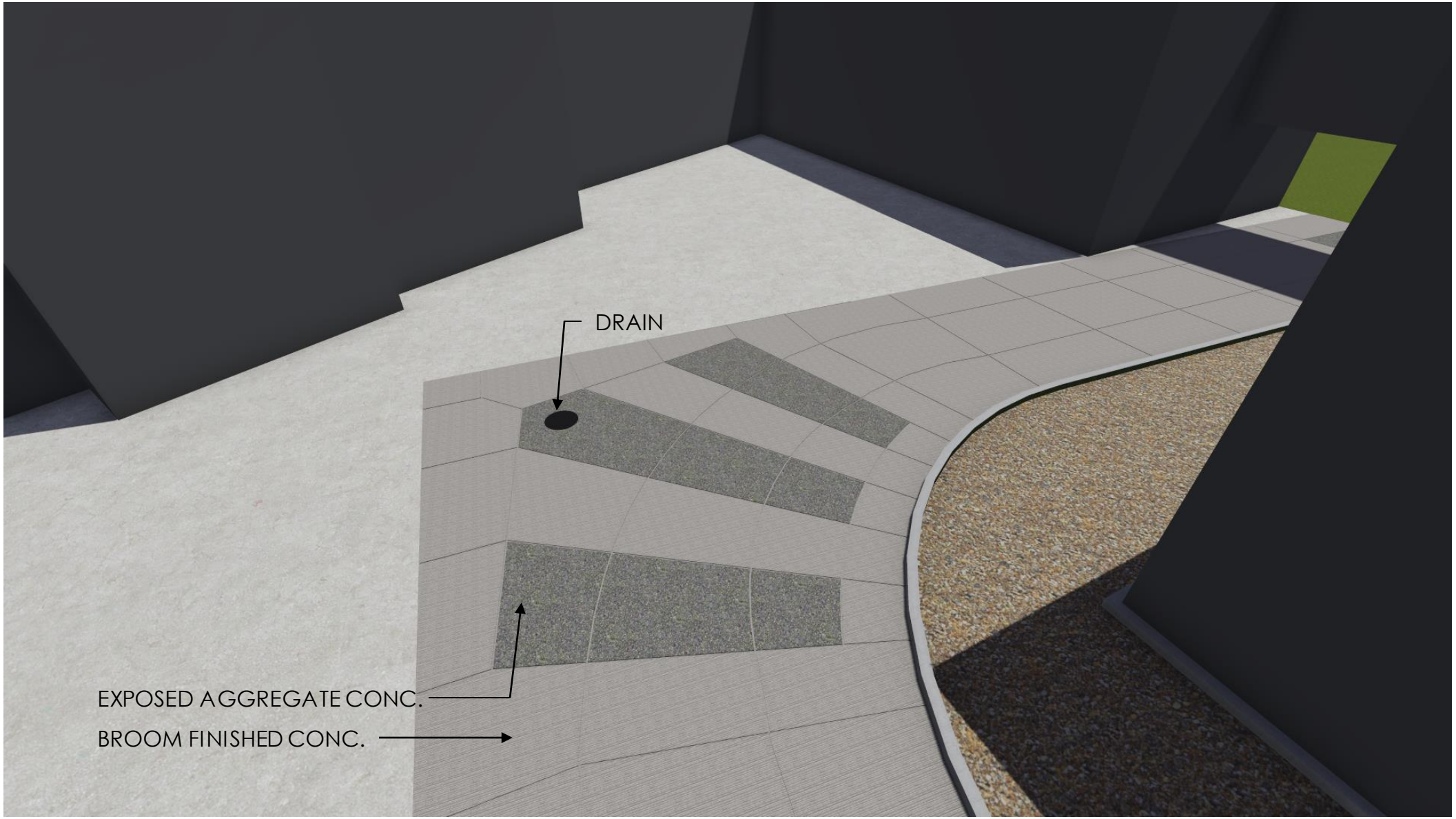
HAMILTON ALLEY

WAYFINDING SIGNAGE



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HAMILTON ALLEY

CURVE DESIGN

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DUMPSTER SCREEN OPTION A