# CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS

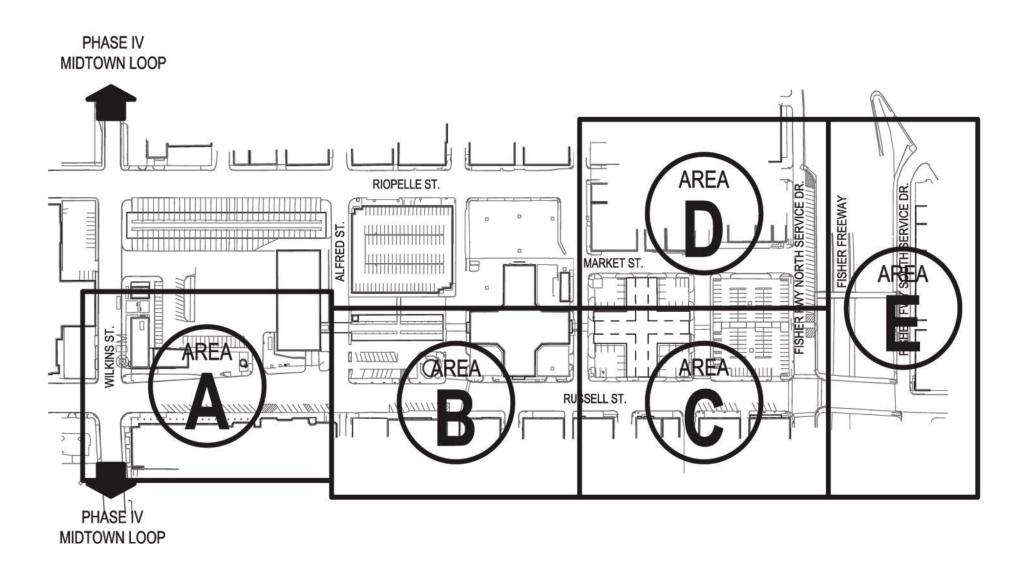
IN COOPERATION WITH

## MICHIGAN DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

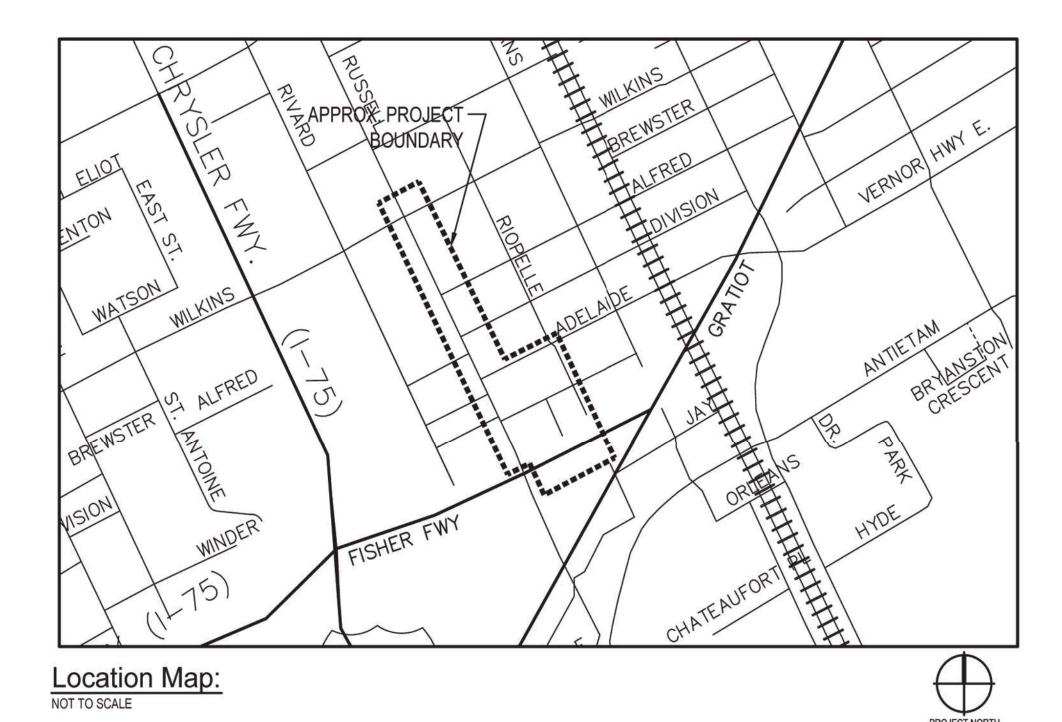
## EASTERN MARKET DISTRICT IMPROVEMENTS

DETROIT, MICHIGAN / WAYNE COUNTY



Site Map:







#### LOCAL AUTHORITY APPROVAL

CITY OF DETROIT
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
900 CADILLAC TOWER
DETROIT, MICHIGAN 48226

### Project Description: (0.75 Miles/ 3947.5 Feet Project Length and 7.6 Acres in Project Area)

Detroit's Eastern Market is the largest historic public market district in the United States. Founded in 1891, it hosts both retail and wholesale markets. On any given Saturday, as many as 40,000 customers shop elbow-to-elbow for fruits, vegetables, breads, specialty foods, jams, honey, apple cider, cheeses, spices, herbs, plants and flowers—all from the marvelous bounty of farms from Michigan, Ohio, and Ontario. The non-profit Eastern Market Corporation (EMC) is implementing a phased capital improvement program focusing on their building assets, food distribution network and training programs. This effort involved the preparation of the Eastern Market 360° Master Plan for the core area as well as a Market Oriented Development strategy for the entire 240-acre district. The Eastern Market District Improvements Project is one of the projects being developed as part of the Link Detroit! TIGER Projects. Link Detroit! will allow streetscape enhancements, including sidewalk paving, improved bicycle and transit facilities, site amenities, landscaping, and pedestrian lights on Russell Street, Wilkins Street, Market Street and the Fisher Freeway Service Drives. This will improve the circulation, access, safety, and experience for patrons and vendors at Eastern Market resulting in higher visitation, expanded job opportunities, and reinvestment in the district.

#### Owners:





City of Detroit

Consultants:

## **SMITHGROUPJJR**

Corporation

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

### **Utility Providers:**

FOR A COMPLETE LIST OF UTILITY PROVIDERS AND CONTACT INFORMATION SEE SURVEY, SHEET E-V2.1.

### Drawing Scale:

ORIGINAL DRAWINGS PREPARED AS 24X36 SHEETS. GRAPHIC SCALES SHOWN ON SHEETS SHALL TAKE PRECEDENCE OVER ANY OTHER NOTED SCALES.

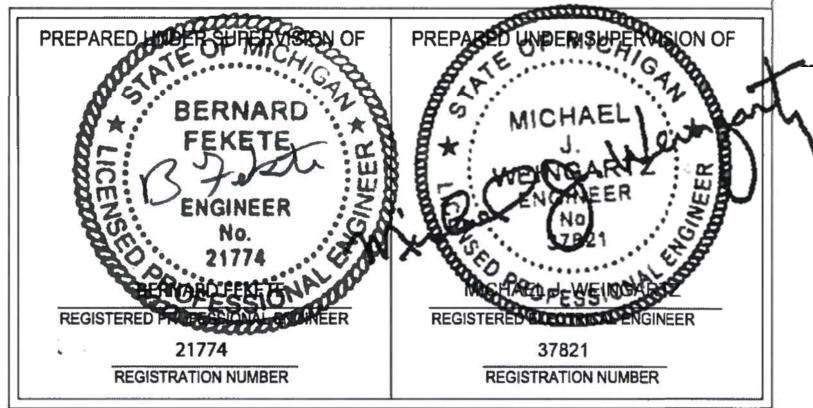
### Drawing List:

E-G0.0-E-G0.6	COVER, SHEET INDEX, KEY PLAN, MDOT QUANTITIES, TYPICAL SECTIONS, HORIZONTAL
	ALIGNMENT PLAN, AND MAINTENANCE OF TRAFFIC PLAN
E-V1.0-E-V2.1	SURVEY SERIES AND HORIZONTAL ALIGNMENT PLAN
E-D1.1-E-D2.0	DEMOLITION AND EROSION CONTROL SERIES AND
	DETAILS
E-C1.1-E-C1.5	PAVING & MATERIALS SERIES
E-C2.1-E-C2.5	LAYOUT SERIES
E-C3.1-E-C3.5	JOINTING SERIES
E-C4.1-E-C4.8	SIGNAGE & STRIPING SERIES
E-C5.0-E-C5.11	SITE DETAILS
E-C6.1-E-C6.5	GRADING SERIES
E-C7.1-E-C7.12	UTILITIES SERIES
E-L1.1-E-L2.0	LANDSCAPE SERIES AND LANDSCAPE DETAILS
E-E1.0-E-E1.13	LIGHTING SERIES AND LIGHTING DETAILS

Submittal:	Date:	Revision:
50% CONSTRUCTION DOCUMENTS	NOVEMBER 5, 2012	0
80% CONSTRUCTION DOCUMENTS	JANUARY 7, 2013	1
GRADE INSPECTION	JANUARY 30, 2013	2
100% CONSTRUCTION DOCUMENTS	APRIL 1, 2013	3
BIDDING DOCUMENTS	MAY 2, 2013	4



### EASTERN MARKET DISTRICT IMPROVEMENTS



	EAS1	TERN MARKET IMPROVEMENTS
	Sheet Number	Sheet Title
	E-C3.5	JOINTING PLAN - AREA E
ping	E-C4.1	SIGNAGE AND STRIPING PLAN - AREA A
Signage & Stripin	E-C4.1 E-C4.2	SIGNAGE AND STRIPING PLAN - AREA B
	E-C4.3	SIGNAGE AND STRIPING PLAN - AREA C
S	E-C4.4	SIGNAGE AND STRIPING PLAN - AREA D
	E-C4.5	SIGNAGE AND STRIPING PLAN - AREA E
	E-C4.6	TRAFFIC SIGNAL REMOVALS (RUSSELL & WILKINS)
	E-C4.7	TRAFFIC SIGNAL MODIFICATIONS (RUSSELL & WILKINS)
	E-C4.8	TRAFFIC SIGNAL MODIFICATIONS (RUSSELL & N. FISHER FWY)
	E-C4.9	TRAFFIC SIGNAL DETAILS 1
	E-C4.10	TRAFFIC SIGNAL DETAILS 2
	E-C4.11	TRAFFIC SIGNAL DETAILS 3
S	E-C5.0	PAVEMENT DETAILS 1
Site Details	E-C5.1	PAVEMENT DETAILS 2
Sil	E-C5.2	SITE FURNISHING DETAILS
	E-C5.3	SITE FURNISHING DETAILS
	E-C5.4	LAYOUT ENLARGEMENTS 1
	E-C5.5	LAYOUT ENLARGEMENTS 2
	E-C5.6	SIGNAGE AND STRIPING DETAILS
	E-C5.7	SIGNAGE & STRIPING DETAILS 2
	E-C5.8	VAULT ENLARGEMENT AND DETAILS 1
	E-C5.9	VAULT ENLARGEMENT & DETAILS 2
	E-C5.10	VAULT ENLARGEMENT AND DETAILS 3
	E-C5.11	PEDESTRIAN CORRIDOR DETAILS
ng	E-C6.1	GRADING PLAN - AREA A
Grading	E-C6.2	GRADING PLAN - AREA B
	E-C6.3	GRADING PLAN - AREA C
	E-C6.4	GRADING PLAN - AREA D
	E-C6.5	GRADING PLAN - AREA E
Utility	E-C7.1	UTILITY PLAN - AREA A
	E-C7.2	UTILITY PLAN - AREA B
	E-C7.3	UTILITY PLAN - AREA C
	E-C7.4	UTILITY PLAN - AREA D
	E-C7.5	UTILITY PLAN - AREA E
	E-C7.6	STORM SEWER PROFILES
	E-C7.7	STORM SEWER PROFILES
	E-C7.8	STORM SEWER PROFILES
	E-C7.9	STORM SEWER PROFILES AND STRUCTURE TABLE
	E-C7.10	FIRE HYDRANT PROFILES
	E-C7.11	UTILITY DETAILS

	EAST	ERN MARKET IMPROVEMENTS
Ī	Sheet Number	Sheet Title
	E-C7.12	UTILITY DETAILS
30e	E-L1.1	LANDSCAPE PLAN - AREA A
allascabe	E-L1.2	LANDSCAPE PLAN - AREA B
_	E-L1.3	LANDSCAPE PLAN - AREA C
	E-L1.4	LANDSCAPE PLAN - AREA D
	E-L1.5	LANDSCAPE PLAN - AREA E
	E-L2.0	LANDSCAPE DETAILS 1
	E-E1.0	ELECTRICAL NOTES AND LEGEND
IICal	E-E1.1 F-F1.2	ELECTRICAL PLAN - AREA A
EIECI	E-E1.2	ELECTRICAL PLAN - AREA B
	E-E1.3	ELECTRICAL PLAN - AREA C
	E-E1.4	ELECTRICAL PLAN - AREA D
	E-E1.5	ELECTRICAL PLAN - AREA E
	E-E1.6	WIRING DIAGRAM - AREA A
	E-E1.7	WIRING DIAGRAM - AREA B
	E-E1.8	WIRING DIAGRAM - AREA C
	E-E1.9	WIRING DIAGRAM - AREA D
	E-E1.10	WIRING DIAGRAM - AREA E
	E-E1.11	SPECIFICATIONS AND PANEL SCHEDULES
	E-E1.12	ELECTRICAL DETAILS
	E-E1.13	ELECTRICAL DETAILS

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

## **SMITHGROUPJJR**

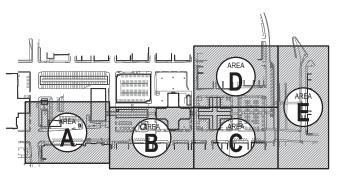
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY.21.20
BIDDING DOCUMENTS	4	MAY.02.20
100% CONSTRUCTION DOCUMENTS	3	APR.01.20
GRADE INSPECTION	2	JAN.30.201
80% CONSTRUCTION DOCUMENTS	1	JAN.07.201
50% CONSTRUCTION DOCUMENTS	0	NOV.05.201

SEALS AND SIGNATURES

KEY PLAN





SHEET INDEX

GRAPHIC SCALE TAKES PRECEDENCE

FULL SIZE SCALE (24x36)

50565.000

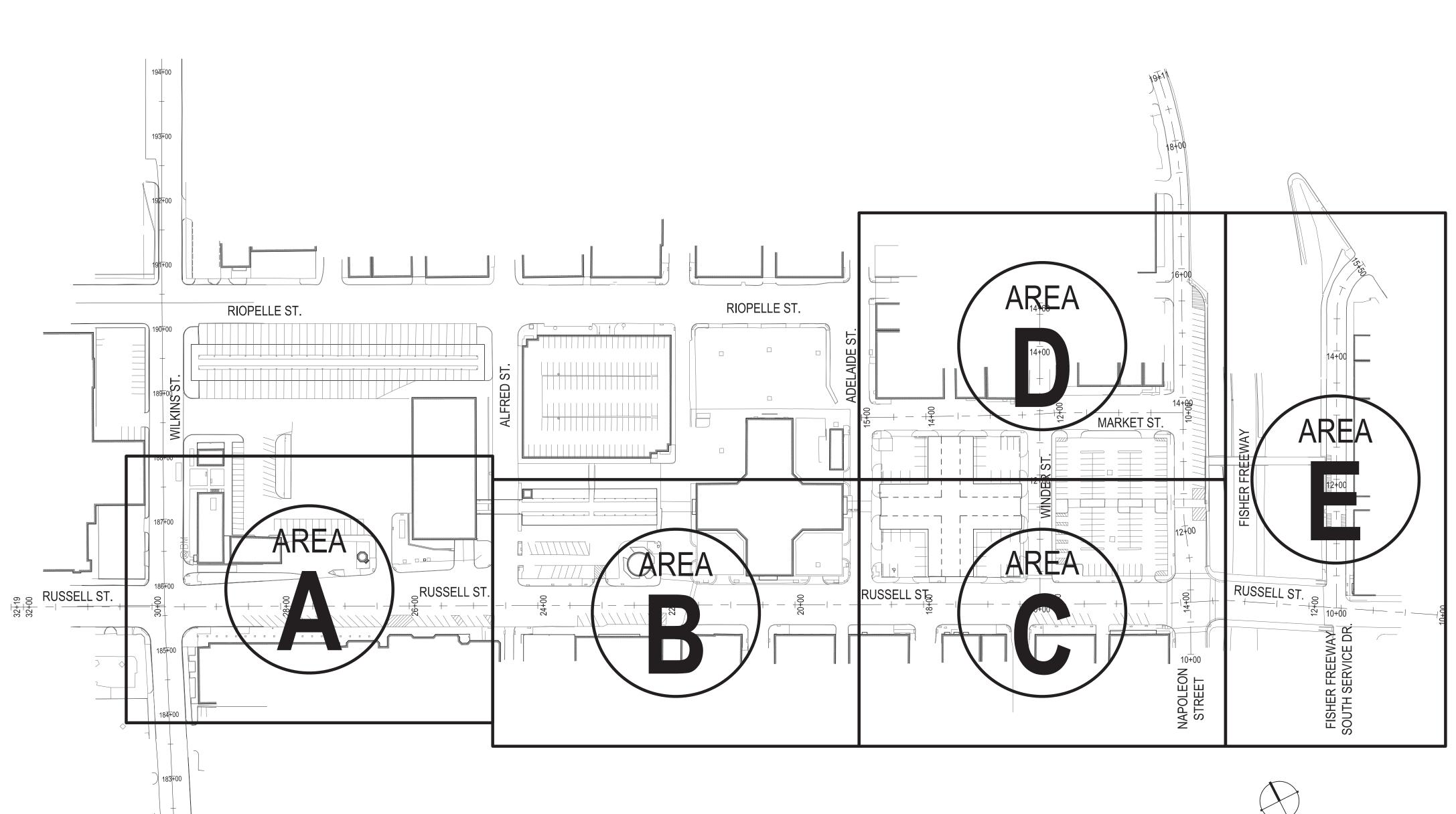
107 of 497

PROJECT NUMBER

DRAWING NUMBER



FILE:P:\50565.000\CAD\L\Sheet\50565-GEN-SHT.dwg USER:jstachowiak DATE:May, 22 2013 TIME:





Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

## **SMITHGROUPJJR**

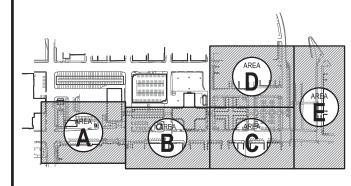
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50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

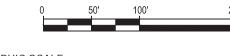
KEY PLAN





DRAWING TITLE

KEY PLAN



GRAPHIC SCALE
TAKES PRECEDENCE
FULL SIZE SCALE (24x36)

1"=100' 50565.000

PROJECT NUMBER

E-G0.2



Item Description	Units	Eastern	Market Dis	strict Impr Number	ovements	Drawing	Eastern Market Total (Category
		##.1	##.2	##.3	##.4	##.5	0001)
SITE PREPARATION, EROSION CONTROL AND DEMOLITION	ON						
Sidewalk, Rem	Syd	1150	1386	1695	1040	0	5271
_Pavt, Rem, Modified	Syd	2342	2465	5596	3168	0	13571
Cold Milling HMA Surface	Syd	135	118	168	172	0	593
_Curb, Rem, Modified	Ft	1271	1485	1710	973	0	5439
_Brick, Rem, Replacement	Syd	15	0	0	0	0	15
_Ramp, Rem	Syd	0	0	11	0	0	11
_Tree Protection Fence	Ea	4	2	0	0	0	6
Tree, Rem, 6 inch to 18 inch	Ea	2	0	0	0	0	2
Stump, Rem, 6 inch to 18 inch	Ea	0	8	0	0	0	8
_Clearing, Modified	Acre	0.05	0.02	0	0.02	0	0.09
_Litter and Debris, Rem	Cyd	0	18	10	5	0	33
Fence, Rem and Salv	Ft	0	105	0	0	0	105
Guardrail, Rem	Ft	0	0	19	0	0	19
_Railing, Rem	Ft	0	0	0	10	0	10
Bollard, Rem	Ea	0	2	6	0	0	8
 _Parking Block, Rem and Salv	Ea	0	0	31	26	0	57
 _Newspaper Stand, Rem and Salv	Ea	1	1	2	1	0	5
Mailbox, Relocated	Ea	2	0	0	0	0	2
_Pay Telephone, Rem	Ea	0	1	0	1	0	2
Bench, Rem and Salv	Ea	2	2	0	0	0	4
_Trash, Receptacle, Relocated	Ea	0	1	0	0	0	1
_Flag Pole, Rem and Salv	Ea	0	0	1	0	0	 1
Truck Scale, Rem and Salv	Ea	1	0	0	0	0	1
_Entry Canopy, Rem	Ea	1	0	0	0	0	<u>.</u> 1
_Planter, Wood, Rem	Sft	160	0	0	0	0	 160
Erosion Control, Inlet Protection, Fabric Drop	Ea	7	17	18	10	0	52
Erosion Control, Maintenance, Sediment Removal	Ea	7	17	18	10	0	52
_TS, Pedestrian, Rem and Salv	Ea	0	2	0	0	0	2
_Property Access, Protection, Temp	LS	2	0	0	0	0	2
_Building Façade, Adj	Sft	0	0	22	98	0	120
_Bantanig r açade, Adj _Pavt Mrkg, Rem	LS	1	0	0	0	0	120
Minor Traf Devices	LS	1	0	0	0	0	<u>'</u> 1
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	32	0	0	0	0	32
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	32	0	0	0	0	32
Traffic Regulator Control	LS	1	0	0	0	0	32 1
		1500	0	0	0	0	1500
Pavt Mrkg, Type R, 4 inch, Temp, Yellow	Ft	1500	0	0	0	0	
Pavt Mrkg, Type R, 4 inch, Temp, White	Ft			0		0	1500
Lighted Arrow, Type C, Furn	Ea	4	0		0		4
Lighted Arrow, Type C, Oper	Ea	4	0	0	0	0	4
Plastic Drum, High Intensity, Furn	Ea	250	0	0	0	0	250
Plastic Drum, High Intensity, Oper	Ea	250	0	0	0	0	250
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	2000	0	0	0	0	2000
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	2000	0	0	0	0	2000
Audio-Visual Filming	LS	1	0	0	0	0	1
Mobilization, Max	LS	1	0	0	0	0	1

Sewer, Rem, Less than 24 inch	Ft	49	10	30	0	0	89
Dr Structure, Rem	Ea	3	4	4	1	0	12
_Dr Structure Cover, Adj, Case 1, Modified	Ea	4	5	4	8	0	21
_Dr Structure Cover, Type 1, Modified	Ea	0	1	4	4	0	9
_Dr Structure Cover, Type 2, Modified	Ea	7	6	11	8	0	32
_Dr Structure Cover, Type 3, Modified	Ea	1	0	0	0	0	1
_Sewer, Cl A, 10 inch, Tr Det B, Modified	Ft	187	116	108	65	0	476
_Sewer, Cl A, 12 inch, Tr Det B, Modified	Ft	0	9	12	0	0	21
Underdrain, Subbase, 4 inch	Ft	960	1098	1566	1128	0	4752
Dr Structure, Tap, 4 inch	Ea	0	4	2	1	0	7
Dr Structure, Tap, 10 inch	Ea	0	0	1	2	0	3
_Sewer Tap, Modified	Ea	6	4	5	3	0	18
Dr Structure, 24 inch dia	Ea	8	6	11	7	0	32
Dr Structure Lead, Cleaning, 12 inch	Ft	40	0	120	120	0	280
Dr Structure, Cleaning	Ea	1	3	2	2	0	8
_Sewer Cleanout, Cover, Adj	Ea	0	0	1	0	0	1
_Hydrant, Relocate, Case 1, Modified	Ea	1	1	1	1	0	4
_Hydrant, Relocate, Case 2, Modified	Ea	1	1	1	0	0	3
_Gate Well, Cover, Adj, Case 1	Ea	3	2	4	2	0	11
Gate Box, Adj, Case 1	Ea	0	3	2	3	0	8
_Water Shutoff, Adj, Modified	Ea	3	2	6	4	0	15
_Water Main, Rem	Ft	0	10	10	8	0	28
Water Main, Di, 6 inch, Tr Det G	Ft	39	32	25	19	0	115
Live Tap, 6 inch x 8 inch	Ea	1	1	1	0	0	3
_Water Serv System	Ea	0	0	0	1	0	1
Erosion Control, Inlet Protection, Fabric Drop	Ea	7	6	11	7	0	31
_Sidewalk Grading	Sft	17577	13445	19474	13129	0	63625

Item Description	Units	Eastern I	Drawing	Eastern Market Total (Category			
	•	##.1	##.2	##.3	##.4	##.5	0001)
SITE AND HARDSCAPE IMPROVEMENTS		•					
_Sidewalk, Conc, 6 inch, Modified	Sft	14305	10445	15282	10573	0	50605
_Sidewalk, Exposed Aggregate, 6 inch, Modified	Sft	3272	3000	4192	2556	0	13020
_Conc Pavt, Misc, 9 inch, Reinf, Modified	Sft	8210	10845	9010	3015	0	31080
_Conc Pavt, Exposed Aggregate, 9 inch, Reinf, Modified	Sft	0	340	152	132	0	624
_Conc, Base Pavt, 9 inch, Modified	Sft	5896	9620	11595	7870	0	34981
HMA, 4E3	Ton	0	72	603	280	0	955
Hand Patching	Ton	108	97	130	121	0	456
_Integral Curb and Sidewalk, 2 Foot, Modified	Ft	880	695	1463	763	0	3801
_Curb, Conc, Mountable, 2 Foot, Modified	Ft	0	382	94	188	0	664
_Curb, Conc, Flush, 2 Foot, Modified	Ft	0	60	27	25	0	112
_Curb, Conc, Separate, 6 inch, Modified	Ft	22	158	574	446	0	1200
Granular Material, Cl II	Cyd	326	249	361	243	0	1179
Aggregate Base	Ton	522	733	1728	884	0	3867
_Vault Repair, Metal Decking	Sft	0	0	426	345	0	771
_Vault Repair, Metal Decking, Post and Beam	LS	0	0	0	1	0	1
_Frost Slab	Ea	1	0	0	0	0	1
_Steps, Conc, Modified	Sft	0	0	5	0	0	5
_Ramp, Conc	Sft	0	140	115	210	0	465
_Sidewalk Ramp, ADA, Modified	Sft	611	1016	1590	873	0	4090
_Detectable Warning Surface Tile, Modified	Ft	43	68	116	78	0	305

Panelboard and Enclosure, Rem, PLD	Ea	0	0	1	0	0	1
Lighting Control Box and Foundation	Ea	0	0	1	0	0	1
_Transformer Pad, PLD	Ea	0	0	1	0	0	1
_Transformer, PLD	Ea	0	0	1	0	0	1
_Hh, Polymer	Ea	0	0	4	0	0	4
_Hh, Round, PLD	Ea	3	2	3	3	0	11
_Mh, 3-way, PLD	Ea	0	0	1	0	0	1
_Wood Utilty Pole, Rem, PLD	Ea	0	0	2	2	0	4
Post Top Acorn Fixture, Rem, PLD	Ea	0	0	6	2	0	8
_High Mast Fixture, Rem, PLD	Ea	0	0	1	0	0	1
_Fdn, Rem, PLD	Ea	0	0	6	3	0	9
_Fixture Type E1	Ea	5	4	0	0	0	9
_Fixture Type E1R	Ea	0	0	9	5	0	14
_Fixture Type E2	Ea	7	7	7	9	0	30
_Fixture Type E2R	Ea	0	0	2	0	0	2
_Fixture Type E3	Ea	0	0	0	6	0	6
_DB Cable, in Conduit, 600V, 3-1/C#1 & 1-1/C#6	Ft	0	0	30	0	0	30
_Elec, Serv, Tap	Ea	0	0	1	0	0	1
Conduit, Encased, EB 20, 3 inch, PLD	Ft	1200	1220	1050	700	0	4170
_Conduit, Encased, EB 20, 4 inch, PLD	Ft	0	0	200	0	0	200
_Conduit, Encased, EB 20, 5 inch, PLD	Ft	0	0	1230	500	0	1730
Conduit, Schedule 40, 1 1/2 inch	Ft	0	0	120	0	0	120
Conduit, Schedule 40, 2 inch	Ft	0	0	680	350	0	1030
Conduit, Schedule 80 PVC, 2 inch	Ft	0	0	150	0	0	150
_Conduit, Schedule 80 PVC, 2 inch, PLD	Ft	930	1100	525	360	0	2915
_DB Cable, in Conduit, 600V, 1/C#2, PLD	Ft	2605	2190	3050	2000	0	9845
DB Cable, in Conduit, 600V, 1/C#4	Ft	0	0	3700	1750	0	5450
_DB Cable, in Conduit, 600V, 1/C#6, PLD	Ft	2730	2500	800	900	0	6930

Item Description	Units	Eastern I	Market Dis	strict Impro Number	ovements	Drawing	Eastern Market Total (Category
		##.1	##.2	##.3	##.4	##.5	0001)
SITE FURNISHINGS AND LANDSCAPING		1					
_Bench, Type E1	Ea	2	5	7	2	0	16
_Bench, Type E2	Ea	4	0	0	0	0	4
_Trash Receptacle, Type E	Ea	4	4	7	6	3	24
_Bike Rack, Type E Planter, 30 inch	Ea Ea	33	5 5	19 5	6	3	63 21
_Planter 36 inch	Ea	4	4	5	3	3	19
Planter 48 inch	Ea	3	4	5	3	2	17
_Tree Grate and Tree Guard, 3x6	Ea	0	0	10	0	0	10
_Tree Grate and Tree Guard, 4x4	Ea	4	2	2	0	0	8
_Tree Grate and Tree Guard, 4x8	Ea	6	4	3	11	0	24
_Hand Rail, Type E	Ft	0	0	17	0	0	17
_Railing, Type E	Ft	0	0	324	200	0	524
Sign, Type III, Rem	Ea	4	5	9	11	0	29
Sign, Type III, Erect, Salv	Ea	3	6	10	7	0	26
Sign, Type IIIA	Sft	7	7	105	168	7	189
Sign, Type IIIB Post, Steel, 3 LB	Sft Ft	42 75.5	49 118.5	105 173	91 316.5	56 76.5	343 760
Perforated Steel Square Tube Sign Breakaway System	Ea	75.5	110.5	1/3	310.5	70.5	760 72
Recessing Pavement Markings, Transv	Ft	518	978	1528	895	342	4261
Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	2370	2732	3690	2620	1250	12662
_Pavt Mrkg, Sprayable Thermopl, 4 inch, Blue	Ft	0	0	140	192	0	332
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	1165	875	1075	845	115	4075
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk	Ft	80	460	852	785	311	2488
Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar	Ft	33	68	88	110	31	330
_Pavt Mrkg, Ovly Cold Plastic, Handicap Sym, Blue	Ea	3	4	4	4	3	18
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	Ea	6	8	8	0	1	23
Pavt Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym	Ea	0	0	1	0	0	1
_Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym	Ea	0	0	2	4	0	6
_Pavt Mrkg, Ovly Cold Plastic, Ped Xing Sym	Ea	3	3	6	0	1	13
Pavt Mrkg, Modified Urethane, 12 inch, Crosswalk	Ft	405	450	588	0	0	1443
TS, Four Way Span Wire Mtd, Salv TS, Span Wire Mtd, Rem	Ea Ea	3	0	0	0	0	3
TS, Pedestrian, Bracket Arm Mtd, Rem	Ea	4	0	0	0	0	4
TS, Bracket Arm Mtd, Rem	Ea	2	0	0	0	0	2
Span Wire, Rem	Ea	2	0	0	0	0	2
Controller and Cabinet, Rem	Ea	1	0	0	0	0	1
Controller Fdn, Rem	Ea	1	0	0	0	0	1
_Controller and Cabinet, Digital Type, Modified	Ea	1	0	0	0	0	1
Controller Fdn, Base Mount	Ea	1	0	0	0	0	1
Span Wire	Ea	4	0	0	0	0	4
TS, One Way Span Wire Mtd, Salv	Ea	8	0	0	0	0	8
TS, Pedestrian, Two Way Bracket Arm Mtd, Salv	Ea	4	0	0	0	0	4
Strain Pole, Steel, Anchor Fdn	Ea	1	0	0	0	0	1
Strain Pole, Steel, Anchor Base, 36 foot	Ea	30	0	0	0	0	1
_Conduit, Encased, 2, 3 inch, Modified _Conduit, Encased, 3, 4 inch, Modified	Ft Ft	45	0	0	0	0	30 45
_Conduit, Encased, 3, 4 inch, Modilled Serv Disconnect	Ea	45	0	0	0	0	45 1
Cable, Sec, 2Kv, 2, 1/C#2	Ft	170	0	0	0	0	170
_Acer miyabei 'Morton', 3 inch, B&B	Ea	0	0	13	7	0	20
_Ginkgo biloba 'Autumn Gold', 3 inch, B&B	Ea	0	0	4	6	0	10
_Gleditsia triacanthos inermis 'Shademaster', 3 inch, B&B	Ea	7	4	0	0	0	11
_Hemerocallis 'Ruby Stella', #1 cont.	Ea	0	0	160	103	0	263
_Hemerocallis 'Stella D'oro', #1 cont.	Ea	0	0	127	94	0	221
_Juniperus chinensis 'Kallay's Compact', 24 inch spd.	Ea	0	7	14	0	0	21
Panicum virgatum 'Rostrahlbush', #1 cont.	Ea	84	33	0	0	0	117
_Rosa 'Knock-out', 24 inch spd.	Ea	0	3	6	0	0	9
_Ulmus 'Patriot', 3 inch, B&B	Ea	3	2	2	0	0	7
_Mulch, Hardwood Bark, 2 inch Depth	Syd	110	48	210	99	0	467
_Seeding, Type 1, Modified	Sft	1882	0	0	1762	0	3644
_Landscape Edging _Topsoil Surface, 4 inch Depth, Modified	Ft Svd	5 210	0	0	0 196	0	5 406
_ i opsoil Surface, 4 inch Depth, Modified _Planting Mixture, 12 inch Depth	Syd Syd	110	48	210	99	0	406 467
Structural Soil	Cyd	208	126	202	226	0	762
_Structural 3011 _Mowing, Modified	LS	0.2	0	0	0	0	0.2
_Watering and Cultivating, First Season, Modified	LS	1	0	0	0	0	1



Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

## **SMITHGROUPJJR**

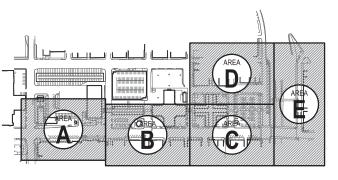
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SEALS AND SIGNATURES

KEY PLAN





DRAWING TITLE MDOT QUANTITIES

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)

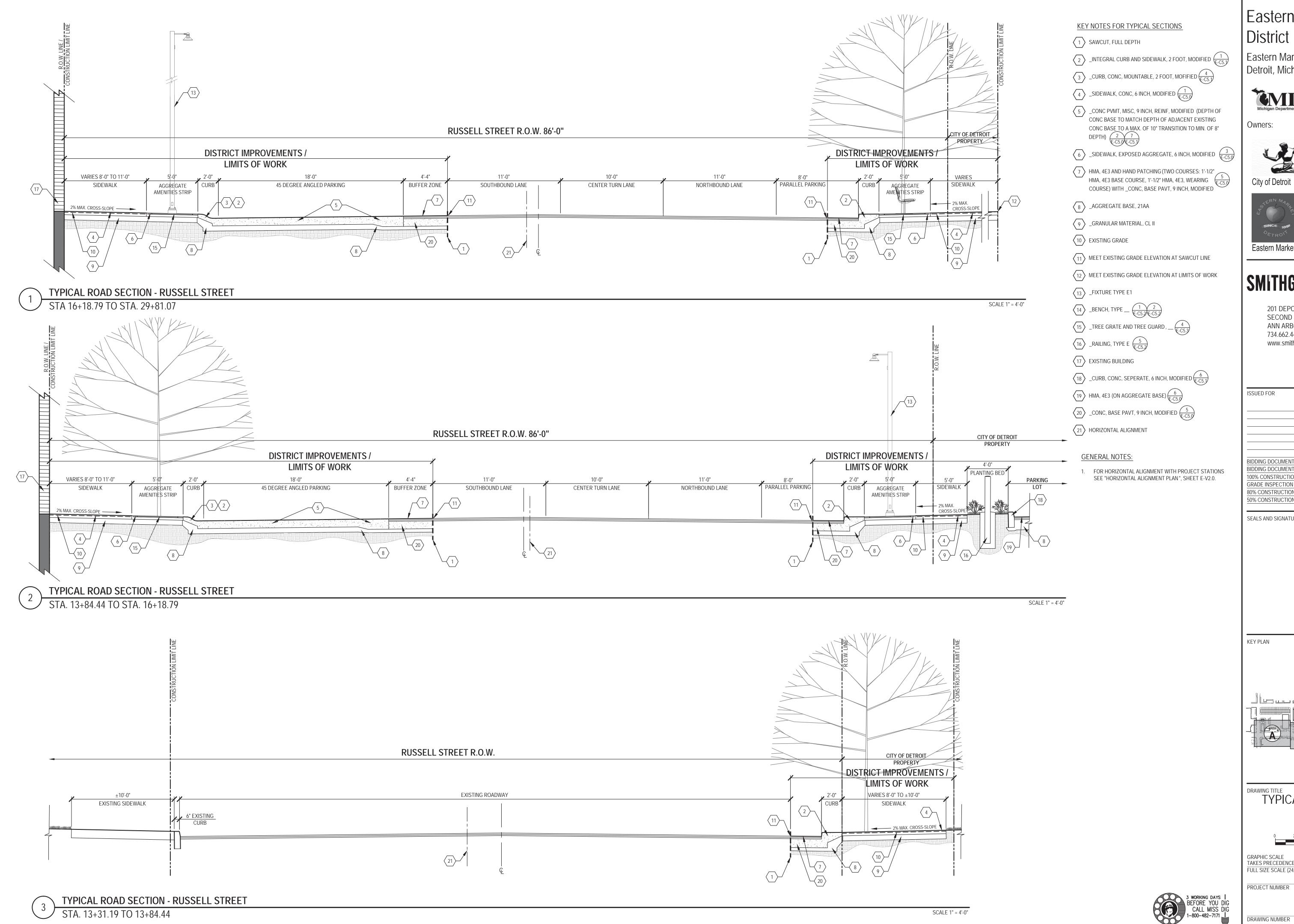
FULL SIZE SCALE (24x36)

PROJECT NUMBER

DRAWING NUMBER

109 of 497

N/A



Eastern Market Detroit, Michigan







Eastern Market Corporation

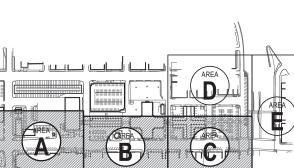
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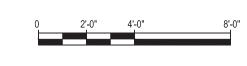
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SEALS AND SIGNATURES



TYPICAL SECTIONS



GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)

DRAWING NUMBER 110 of 497

1" = 4'-0"

50565.000

SCALE 1" = 4'-0"

KEY NOTES FOR TYPICAL SECTIONS

1 SAWCUT, FULL DEPTH

 $\left\langle 2 \right\rangle$  \_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED  $\left\langle \frac{1}{\text{E-C5.}} \right\rangle$ 

CURB, CONC, MOUNTABLE, 2 FOOT, MOFIFIED 4

E-C5.1

4 \_SIDEWALK, CONC, 6 INCH, MODIFIED 1 \_E-C5.0

5 \_CONC PVMT, MISC, 9 INCH, REINF, MODIFIED (DEPTH OF CONC BASE TO MATCH DEPTH OF ADJACENT EXISTING CONC BASE\_TO A MAX. OF 10" TRANSITION TO MIN. OF 8"

 $\binom{6}{6}$  \_SIDEWALK, EXPOSED AGGREGATE, 6 INCH, MODIFIED  $\binom{3}{\xi\text{-C5.0}}$ 

HMA, 4E3 AND HAND PATCHING (TWO COURSES: 1'-1/2"
HMA, 4E3 BASE COURSE, 1'-1/2" HMA, 4E3, WEARING
COURSE) WITH \_CONC, BASE PAVT, 9 INCH, MODIFIED

8 \_AGGREGATE BASE, 21AA

(9) \_GRANULAR MATERIAL, CL II

(10) EXISTING GRADE

 $\langle 11 \rangle$  MEET EXISTING GRADE ELEVATION AT SAWCUT LINE

 $\langle 12 \rangle$  MEET EXISTING GRADE ELEVATION AT LIMITS OF WORK

(13) \_FIXTURE TYPE E1

15 \_TREE GRATE AND TREE GUARD, \_\_ $(\frac{4}{\text{E-C5.3}})$ 

16 \_RAILING, TYPE E  $\frac{5}{\text{E-C5.2}}$ 

(17) EXISTING BUILDING

\_CURB, CONC, SEPERATE, 6 INCH, MODIFIED (E-C5.1)

19 HMA, 4E3 (ON AGGREGATE BASE)  $\frac{6}{\text{E-C5.0}}$ 

20 \_CONC, BASE PAVT, 9 INCH, MODIFIED  $\frac{5}{\text{E-C5.0}}$ 

21 HORIZONTAL ALIGNMENT

**GENERAL NOTES:** 

1. FOR HORIZONTAL ALIGNMENT WITH PROJECT STATIONS SEE "HORIZONTAL ALIGNMENT PLAN", SHEET E-V2.0.

Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:



City of Detroit



Eastern Market Corporation

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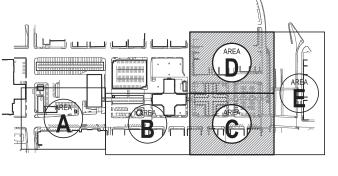
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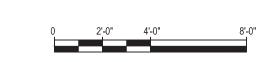
SEALS AND SIGNATURES

**KEY PLAN** 





TYPICAL SECTIONS



GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)

50565.000 PROJECT NUMBER

DRAWING NUMBER

111 of 497

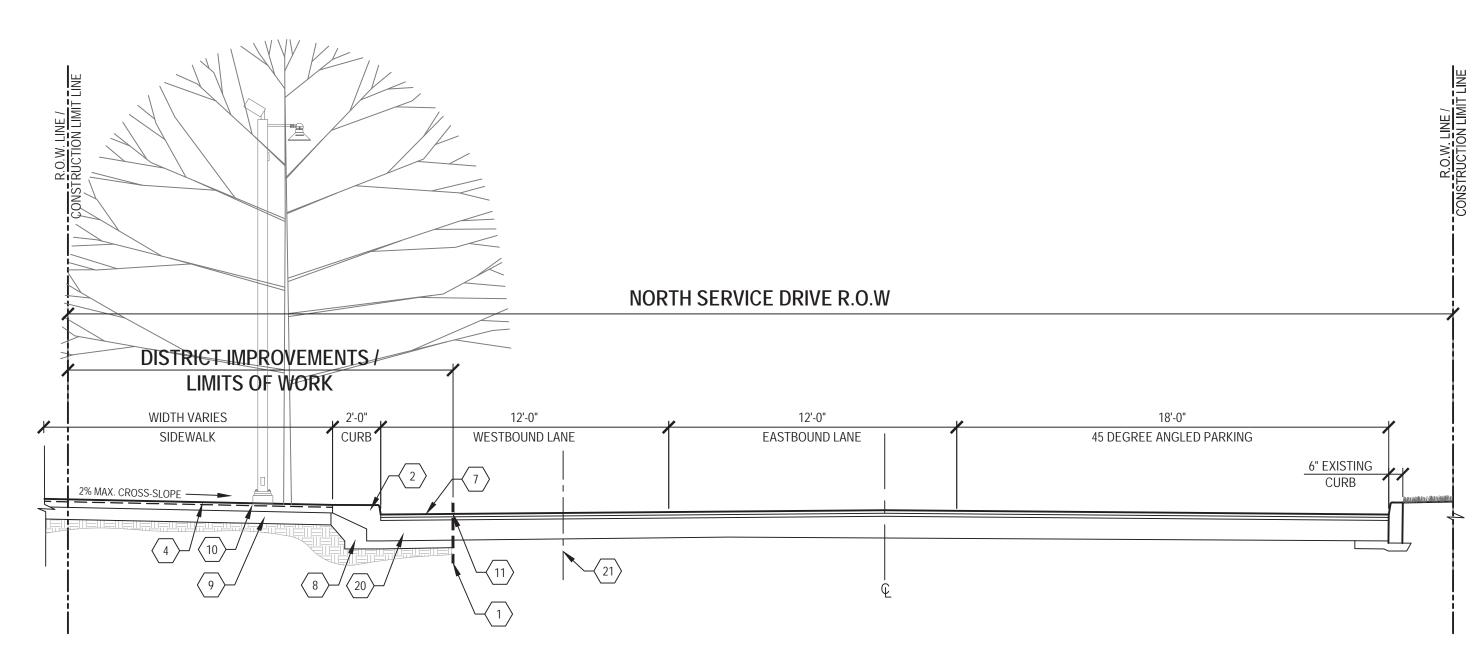
1" = 4'-0"

3 WORKING DAYS |
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171

TYPICAL ROAD SECTION - NORTH SERVICE DRIVE

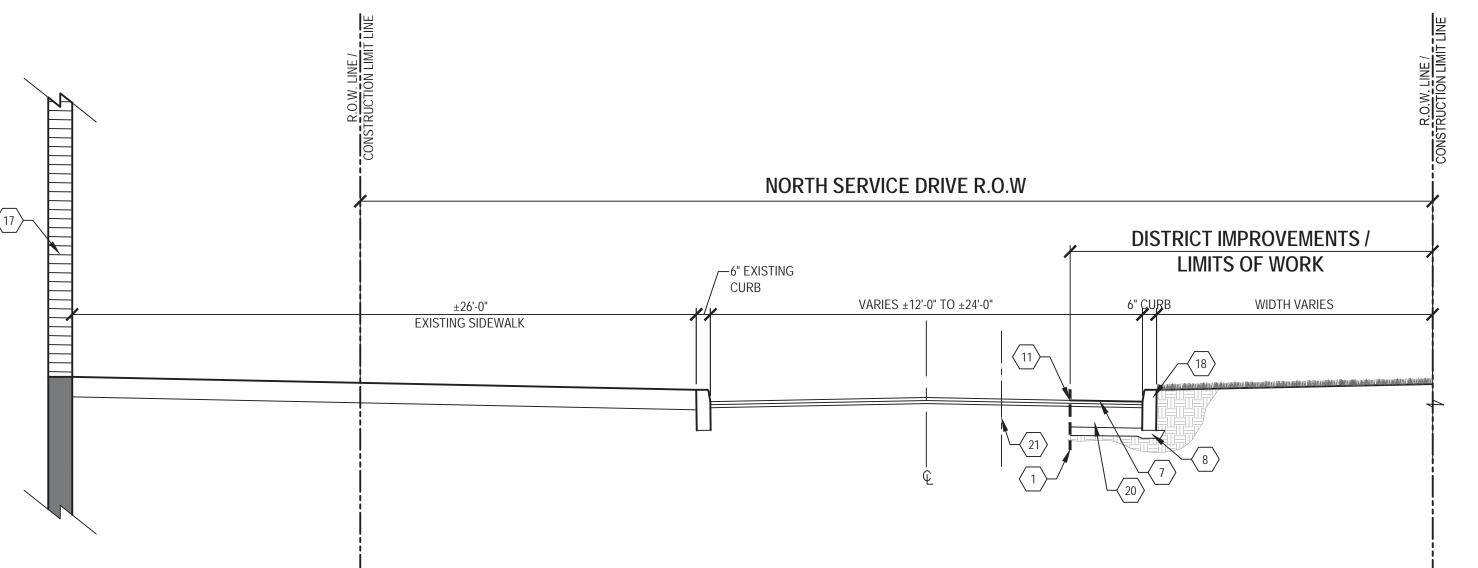
STA. 10+00 TO STA. 12+52.45

SCALE 1" = 4'-0"



TYPICAL ROAD SECTION - NORTH SERVICE DRIVE

STA. 12+52.45 TO STA. 15+46.07



TYPICAL ROAD SECTION - NORTH SERVICE DRIVE

STA. 15+46.07 TO STA. 16+85.48

KEY NOTES FOR TYPICAL SECTIONS

- 1 SAWCUT, FULL DEPTH
- 2 \_INTEGRAL CURB AND SIDEWALK, 2 FOOT, MODIFIED  $\frac{1}{\text{E-C5.1}}$
- 3 \_CURB, CONC, MOUNTABLE, 2 FOOT, MOFIFIED 4 \_E-C5.1
- 4 \_SIDEWALK, CONC, 6 INCH, MODIFIED (1)
- 5 \_CONC PVMT, MISC, 9 INCH, REINF, MODIFIED (DEPTH OF CONC BASE TO MATCH DEPTH OF ADJACENT EXISTING CONC BASE TO A MAX. OF 10" TRANSITION TO MIN. OF 8" DEPTH) 2 7 | F-C5 OF-C5 1/2
- 6 \_SIDEWALK, EXPOSED AGGREGATE, 6 INCH, MODIFIED  $\frac{3}{\text{E-C5.0}}$
- HMA, 4E3 AND HAND PATCHING (TWO COURSES: 1'-1/2"
  HMA, 4E3 BASE COURSE, 1'-1/2" HMA, 4E3, WEARING
  COURSE) WITH \_CONC, BASE PAVT, 9 INCH, MODIFIED
- 8 \_AGGREGATE BASE, 21AA
- 9 GRANULAR MATERIAL, CL II
- (10) EXISTING GRADE
- $\langle 11 \rangle$  MEET EXISTING GRADE ELEVATION AT SAWCUT LINE
- 12 MEET EXISTING GRADE ELEVATION AT LIMITS OF WORK
- 13 \_FIXTURE TYPE E1
- (-05) \_TREE GRATE AND TREE GUARD, (-05)
- 16 \_RAILING, TYPE E  $\frac{5}{\text{E-C5.2}}$
- (17) EXISTING BUILDING
- 18 \_CURB, CONC, SEPERATE, 6 INCH, MODIFIED  $\frac{6}{\text{E-C5.1}}$
- 19 HMA, 4E3 (ON AGGREGATE BASE)  $\frac{6}{\text{E-C5.0}}$
- 20 \_CONC, BASE PAVT, 9 INCH, MODIFIED  $\frac{5}{\text{E-C5.0}}$
- (21) HORIZONTAL ALIGNMENT

#### **GENERAL NOTES:**

1. FOR HORIZONTAL ALIGNMENT WITH PROJECT STATIONS SEE "HORIZONTAL ALIGNMENT PLAN", SHEET E-V2.0.

## Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

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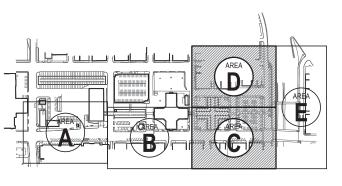
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SEALS AND SIGNATURES

KEY PLAN



1" = 4'-0"



TYPICAL SECTIONS



GRAPHIC SCALE
TAKES PRECEDENCE
FULL SIZE SCALE (24x36)

PROJECT NUMBER

DRAWING NUMBER

BER 112 of 497

3 WORKING DAYS I BEFORE YOU DIG CALL MISS DIG 1-800-482-7171

SCALE 1" = 4'-0"

# 0 100' 200' 400' SCALE: 1 INCH = 200 FEET

## HORIZONTAL ALIGNMENT PLAN - EASTERN MARKET DISTRICT IMPROVEMENTS

PART OF PRIVATE CLAIM 8 & 17, 90, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN

CON	TABLE	Т
Point Number	Northing	Easting
CP 50	12541.48	12207.29
CP 51	12329.52	12316.10
CP 52	11118.24	12938.75
CP 53	10946.09	13026.29
CP 54	10910.49	13047.06
CP 55	10873.62	12975.16
CP 56	10864.49	13073.90
CP 57	10704.50	13142.04
CP 58	10559.78	13203.67
CP 59	10912.13	13551.00
CP 60	10910.11	13637.34
CP 61	10935.44	13095.71
CP 62	10977.47	13155.81
CP 63	11055.12	13304.17
CP 64	11206.08	13593.40
CP 65	11331.67	13758.71
CP 66	11228.42	13215.89
CP 67	11268.16	13191.82
CP 68	11252.36	13201.40
CP 69	11236.10	13169.57
CP 13	12113.29	11934.02
CP 14	12330.65	12318.09
CP 15	12547.51	12735.62
CP 16	12755.87	13142.79

#### VERTICAL BENCHMARKS:

39-253 - BRASS DISC IN MONUMENT BOX; NL CHESTNUT STREET AT CTRL OF DEQUINDRE RR (BRIDGE DECK) ELEVATION = 138.51 FEET (CITY OF DETROIT DATUM)

39-252A - BRASS DISC IN MONUMENT BOX; NL WILKINS STREET AT EL ST AUBIN STREET ELEVATION = 143.77 (CITY OF DETROIT DATUM)

40-253 - BRASS DISC IN MONUMENT BOX; NL ALEXANDRINE AT EL ST AUBIN STREET ELEVATION = 145.19 FEET (CITY OF DETROIT DATUM)

29-255A - BRASS DISC IN MONUMENT BOX; NL EDMUND PLACE AT EL JOHN R. ELEVATION = 136.52 FEET (CITY OF DETROIT DATUM)

#### NOTES

1. FIELD MONUMENTS WERE SET AS PART OF CONTRACT AGREEMENT WITH SPAULDING DEDECKER AND ASSOCIATES, PROVIDING SURVEY INFORMATION ON BEHALF OF THE CITY OF DETROIT.

#### SURVEY LEGEND



PRIVATE CLAIM MONUMENT - PROPERTY CONTROLLING CORNER
HORIZONTAL ALIGNMENT POINT - TO BE FIELD MONUMENTED

HORIZONTAL ALIGNMENT

WILKINS STREET 3 N60°29'37"E 441.31' N62°54'00"E 457.39' -----------ADELAIDE ST of ADELAIDE ST 18+00 -----FISHER FREEWAY CP 56 (NORTH SERVICE DRIVE)

## Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owner





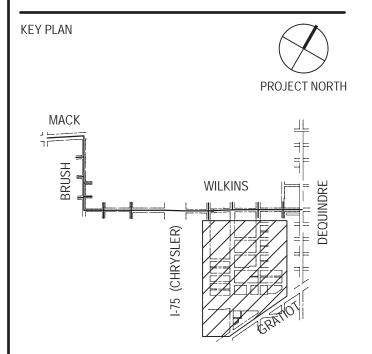
Eastern Market Corporation

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SEALS AND SIGNATURES



HORIZONTAL ALIGNMENT
PLAN



FULL SIZE SCALE (24x36)

PROJECT NUMBER

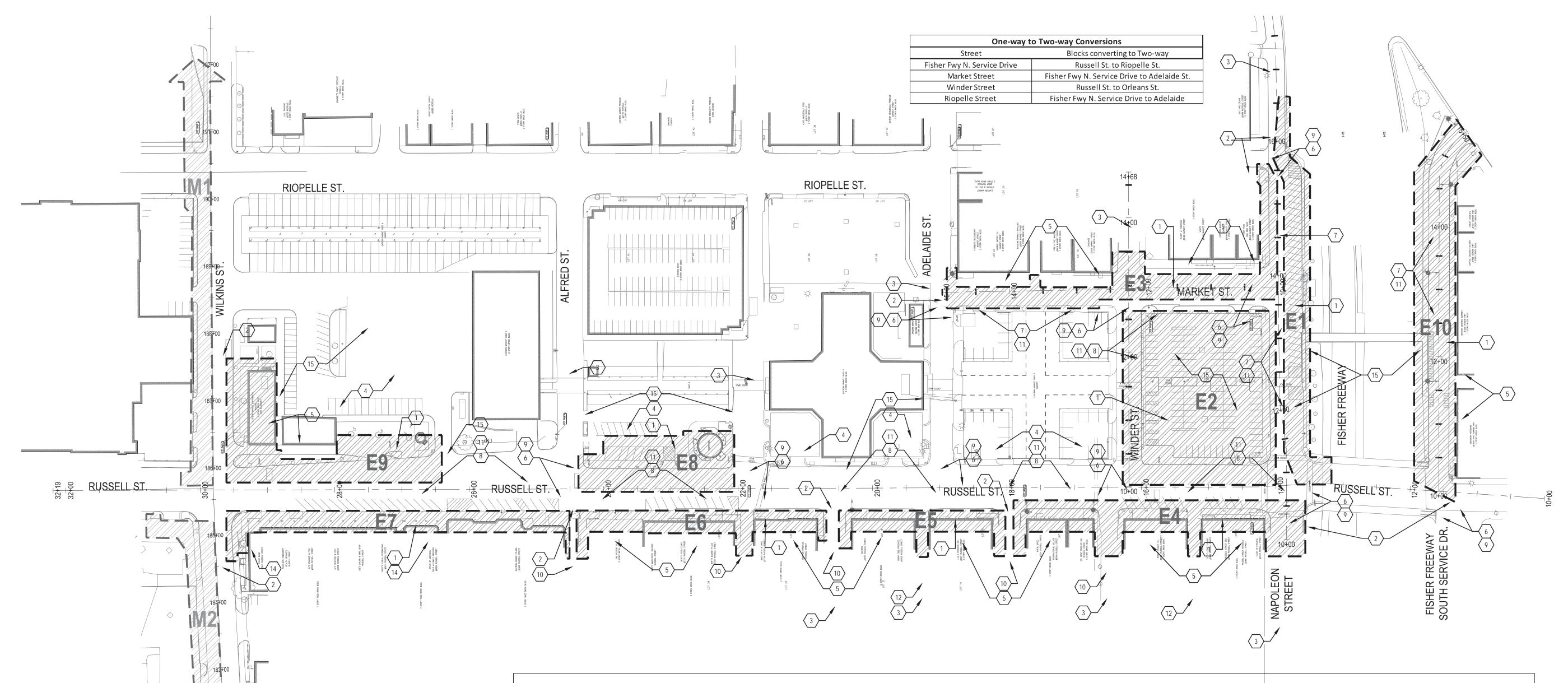
M-G0.7

50565.000

DRAWING NUMBER

FILE: P: \24708\003\Phase-IV\CAD\Model\24708-004

3 WORKING DAYS | BEFORE YOU DIG CALL MISS DIG 1–800–482–7171



#### NOTES:

CONTRACTOR SHALL SEQUENCE THE CONSTRUCTION IN THE ORDER OF THE WORK ZONES IDENTIFIED. CONSTRUCTION SHALL START AT WORK ZONE 1 AT THE NORTH SERVICE DRIVE AND PROCEED NORTHWARD THROUGH THE EASTERN MARKET DISTRICT WITH THE WEST SIDE OF RUSSELL BEING COMPLETED PRIOR TO THE EAST SIDE OF RUSSELL. A MAXIMUM OF TWO WORK ZONES CAN BE UNDER CONSTRUCTION AT ANY ONE TIME. IF CONSTRUCTION ACTIVITIES WITHIN A WORK ZONE ARE COMPLETED PRIOR TO THE DATES NOTED, THE CONTRACTOR CAN REQUEST APPROVAL FROM THE ENGINEER TO PROCEED WITH THE NEXT WORK ZONE. MAINTENANCE OF TRAFFIC SHALL BE COORDINATED BETWEEN THE TWO WORK ZONES UNDER CONSTRUCTION AND WITH ADJACENT CONSTRUCTION PROJECTS AS NECESSARY. SITE FURNISHING, LANDSCAPING, AND ASSOCIATED SITE IMPROVEMENTS THAT CAN BE COMPLETED WITHOUT TEMPORARY TRAFFIC CONTROL DEVICES CAN BE COMPLETED OUTSIDE OF THE WORK ZONE DATES IDENTIFIED PENDING PRIOR APPROVAL BY THE ENGINEER. SPECIAL ATTENTION SHALL BE PLACED ON ACCOMMODATING THE WEEKLY MARKET DAYS AND SPECIAL EVENTS THAT OCCUR IN THE EASTERN MARKET DISTRICT THAT WILL REQUIRE TEMPORARY ADJUSTMENTS TO THE TRAFFIC CONTROL DEVICES.

\*WORK PRIOR TO JAN. 6, 2014 IS RESTRICTED TO WORK ZONE 1 AND SHALL NOT BE EXTENDED TO ANY OTHER WORK ZONES PRIOR TO THIS DATE. ALL WORK IN ZONES 1 - 3 SHALL BE SUBSTANTIALLY COMPLETED BY MAY 16TH PRIOR TO THE EASTERN MARKET FLOWER DAY MARKET STARTING ON MAY 17TH, 2014.

#### E-G1.1 - MAINTENANCE OF TRAFFIC

QTY	UNIT	ITEM DESCRIPTION
1	LS	Minor Traf Devices
32	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, F
32	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted,Op
1	LS	Traffic Regulator Control
1,500	Ft	Pavt Mrkg, Type R, 4 inch, Temp, Yellow
4	Ea	Lighted Arrow, Type C, Furn
4	Ea	Lighted Arrow, Type C, Oper
250	Ea	Plastic Drum, High Intensity, Furn
250	Ea	Plastic Drum, High Intensity, Oper
2,000	Sft	Sign, Type B, Temp, Prismatic, Special, Furn
2,000	Sft	Sign, Type B, Temp, Prismatic, Special, Oper

EAST	ERN MARKET					
			MAIN	NTENANCE OF TRAFFIC KEY NOTES AND LEGEND		
	WORK ZONE		E10	WORK ZONE E10 TO BE COMPLETED PER THE FOLLOWING DATES: PAVEMENT MARKING / SITE FURNISHINGS  AUG. 4, 2014 TO NOV. 28, 2014	8	MAINTAIN TWO-WAY VEHICULAR TRAFFIC. ALLOWING ONE-LANE IN EACH DIRECTION.
E1	WORK ZONE E1 TO BE COMPLETED PER THE FOLLOWING DATES: * DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 30, 2013 TO NOV. 27, 2013 DEC. 2, 2013 TO MAR. 28, 2014	M1	WORK ZONE M1 TO BE COMPLETED PER THE FOLLOWING DATES: (FOR REFERENCE) DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES AUG. 30, 2013 TO NOV. 27, 2013 SITE AND HARDSCAPE IMPROVEMENTS DEC. 2, 2013 TO MAR. 28, 2014	9	MAINTAIN VEHICULAR TRAFFIC THROUGH INTERSECTION.
E2	WORK ZONE E2 TO BE COMPLETED PER THE FOLLOWING DATES: * DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	JAN. 6, 2014 TO FEB. 14, 2014 FEB. 14, 2014 TO MAY 9, 2014	M2	WORK ZONE M2 TO BE COMPLETED PER THE FOLLOWING DATES: (FOR REFERENCE) DEMOLITION/SITE PREPARATION/UNDERGROUND UTILITIES NOV. 27, 2013 TO JAN. 31, 2014 SITE AND HARDSCAPE IMPROVEMENTS FEB. 3, 2014 TO MAR 28, 2014	(10)	INTERSECTION WIDTH ALLOWS ONLY ONE-LANE OF VEHICULAR TRAFFIC TO BE MAINTAINED. DURATION AND TIMING OF PARTIAL ROAD CLOSURE TO BE LIMITED AS MUCH AS POSSIBLE AND PER PERMIT REQUIREMENTS. PROVIDE REGULATOR CONTROL TO MAINTAIN ALTERNATING TRAFFIC FLOW WHEN AN ALTERNATE OR DETOUR ROUTE IS NOT AVAILABLE. OPEN INTERSECTION TO TWO-WAY TRAFFIC DURING NON-CONSTRUCTION HOURS AND PROVIDE NECESSARY STEEL PLATING AND PROTECTION MEASURES.
E3	WORK ZONE E3 TO BE COMPLETED PER THE FOLLOWING DATES: * DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	FEB. 14, 2014 TO MAR. 28, 2014 MAR. 31, 2014 TO MAY 16, 2014	1	PROVIDE ALL NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES (WZD-125-6) INCLUDING BUT NOT LIMITED TO TEMPORARY SIGNAGE, FENCING, BARRICADES, PLASTIC DRUMS, LIGHTED ARROWS, AND STEEL PLATING AS REQUIRED TO ENSURE A SAFE AND CLEARLY DEFINED CONSTRUCTION AREA, PER PERMIT REQUIREMENTS, TED, MDOT AND AS REQUESTED BY THE ENGINEER.	(11)	MAXIMUM OF ONE LANE CLOSURE AS PERMITTED. CONSTRUCTION IS LIMITED TO ONE SIDE OF THE STREET AND/OR INTERSECTION AT ANY GIVEN TIME. PROVIDE TEMPORARY TRAFFIC CONTROL (M0140a & M0210a).
E4	WORK ZONE E4 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	MAR. 31, 2014 TO MAY 16, 2014 MAY 19, 2014 TO JUNE 27, 2014	2	PROVIDE REQUIRED MERGING TAPER LENGTHS (M0020a) AND ADVANCE SIGNING (M0040a) FOR ALL WORK ZONES.	(12)	MAINTAIN ACCESS TO MAINTAIN ACCESS TO PUBLIC/PRIVATE DRIVEWAYS/ALLEYS. WHEN ADEQUATE SPACE IS AVAILABLE CLOSE ONLY HALF OF THE DRIVEWAY TO ALLOW ACCESS ON THE OTHER HALF.
E5	WORK ZONE E5 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	MAY 19, 2014 TO JUNE 27, 2014 JUNE 30, 2014 TO AUG. 1, 2014	3	PROVIDE ADVANCE WARNING ON ADJACENT SIDE STREETS WITH "CONSTRUCTION WORK AHEAD" SIGNS.	(13)	COORDINATE MAINTENANCE OF TRAFFIC PLANS WITH ADJACENT CONSTRUCTION PROJECTS.
E6	WORK ZONE E6 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	JUNE 30, 2014 TO AUG. 1, 2014 AUG. 4 2014 TO AUG 29, 2014	4	ADJACENT PUBLIC/PRIVATE PROPERTY NOT TO BE USED FOR CONSTRUCTION STAGING, ACCESS, OR STORAGE OF MATERIALS.	(14)	MAINTAIN PEDESTRIAN ACCESS TO PROPERTIES AND BUSINESS UNDER BUILDING ARCADE FROM NORTH & SOUTH ENDS. PROVIDE ALL NECESSARY PROTECTION MEASURES.
E7	WORK ZONE E7 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	AUG. 4 2014 TO AUG 29, 2014 SEPT. 1, 2014 TO SEPT. 26, 2014	5	MAINTAIN PEDESTRIAN ACCESS TO PUBLIC/PRIVATE PROPERTIES AND BUSINESSES. PROVIDE ALL NECESSARY PROTECTION MEASURES.	(15)	MAINTAIN PEDESTRIAN ACCESS TO EASTERN MARKET SHEDS AND VENDOR SPACES ON MARKET DAYS AND EVENTS. ADJUST TEMPORARY TRAFFIC CONTROL DEVICES AS REQUIRED AND AS REQUESTED BY ENGINEER.
E8	WORK ZONE E8 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	SEPT. 1, 2014 TO SEPT. 26, 2014 SEPT. 29, 2014 TO OCT. 31, 2014	6	MAINTAIN PEDESTRIAN ACCESS ON THREE CORNERS OF INTERSECTION AT ALL TIMES.		
E9	WORK ZONE E9 TO BE COMPLETED PER THE FOLLOWING DATES: DEMOLITION / SITE PREPARATION / UNDERGROUND UTILITIES SITE AND HARDSCAPE IMPROVEMENTS	SEPT. 29, 2014 TO OCT. 31, 2014 NOV. 3, 2013 TO NOV. 28, 2014	7	MAINTAIN A MINIMUM OF ONE-LANE OF TRAFFIC.		



## Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

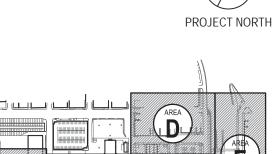
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SEALS AND SIGNATURES

KEY PLAN



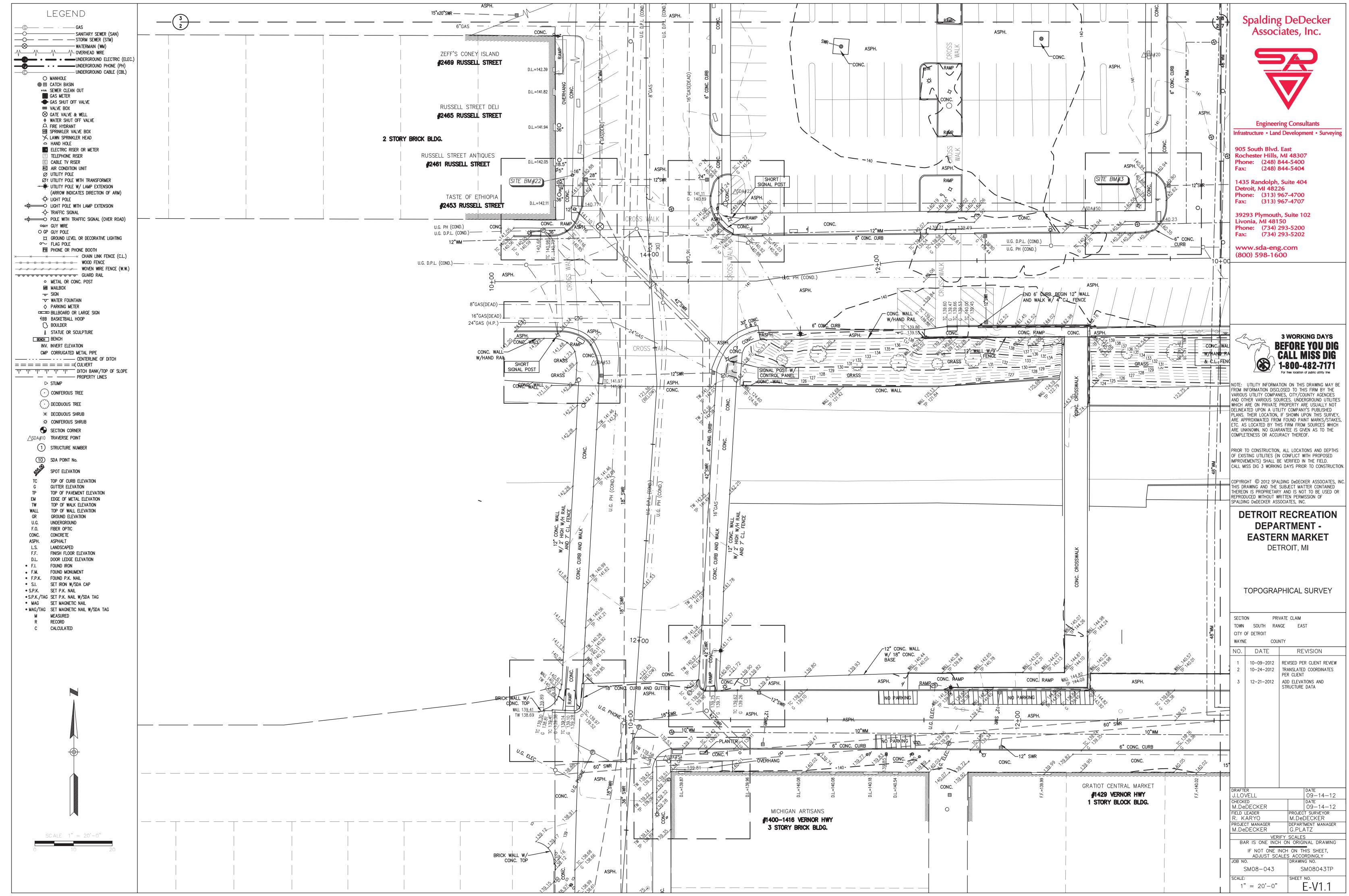
MAINTENANCE OF TRAFFIC PLAN

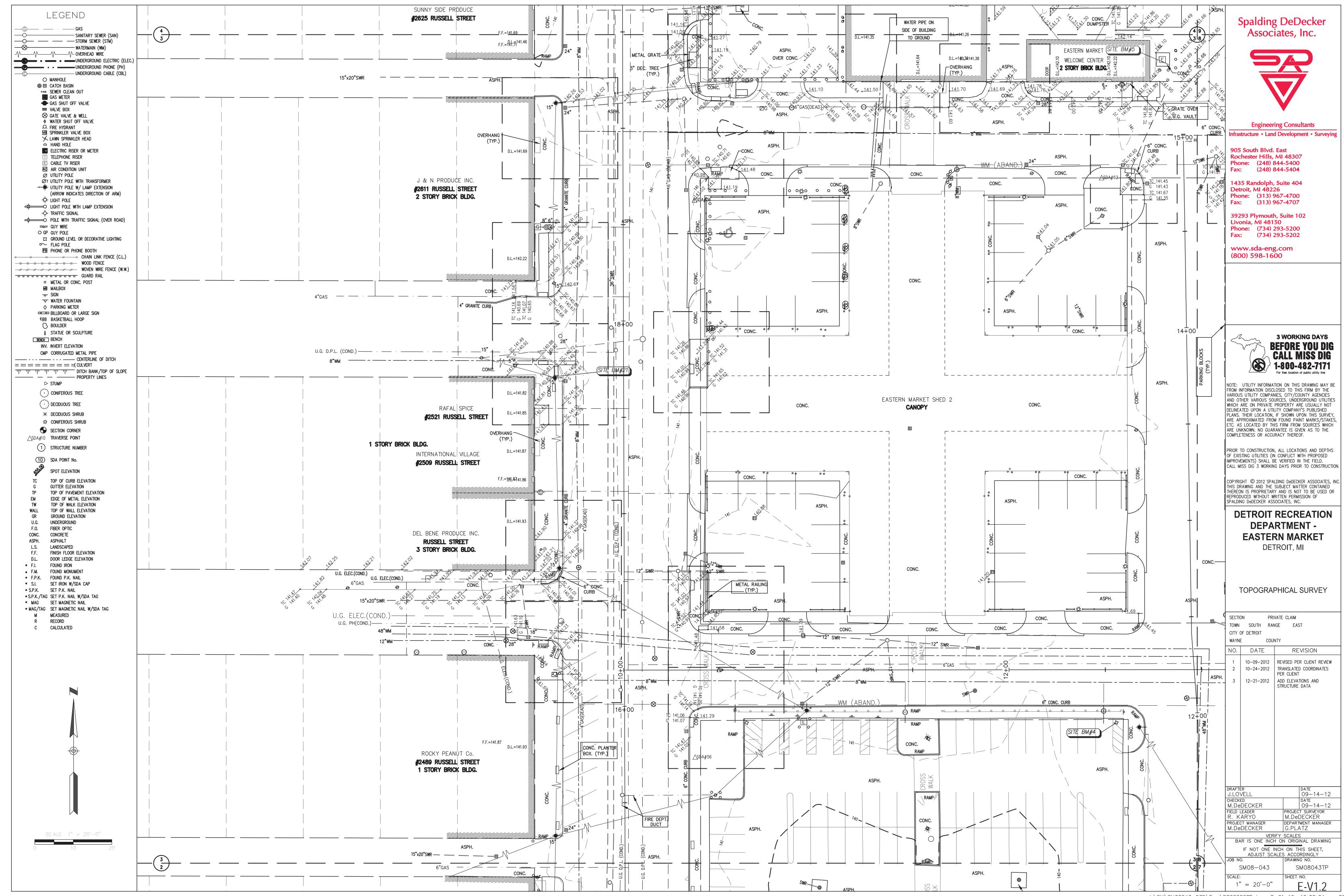


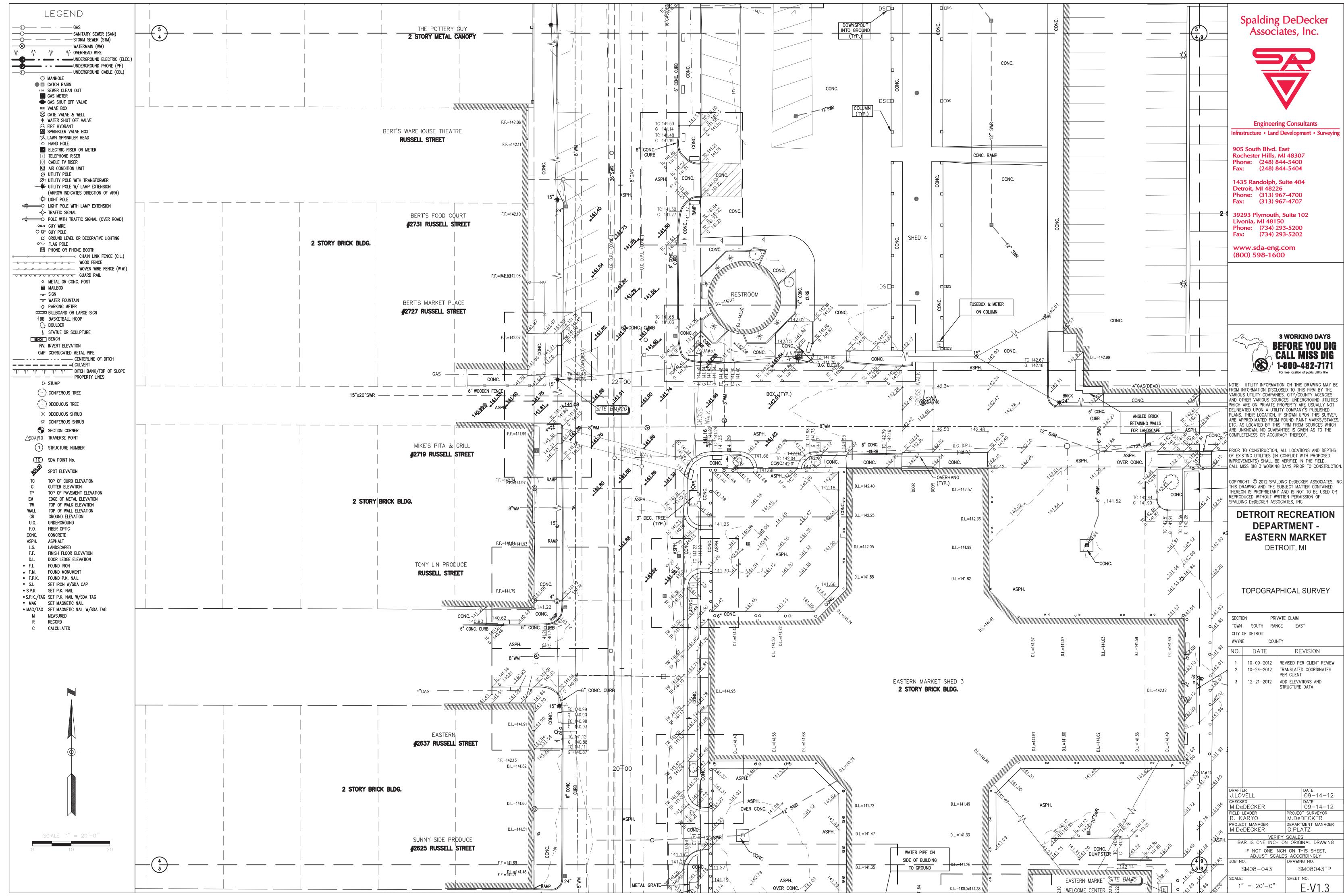
GRAPHIC SCALE TAKES PRECEDENCE 1"=100' FULL SIZE SCALE (24x36) 50565.000

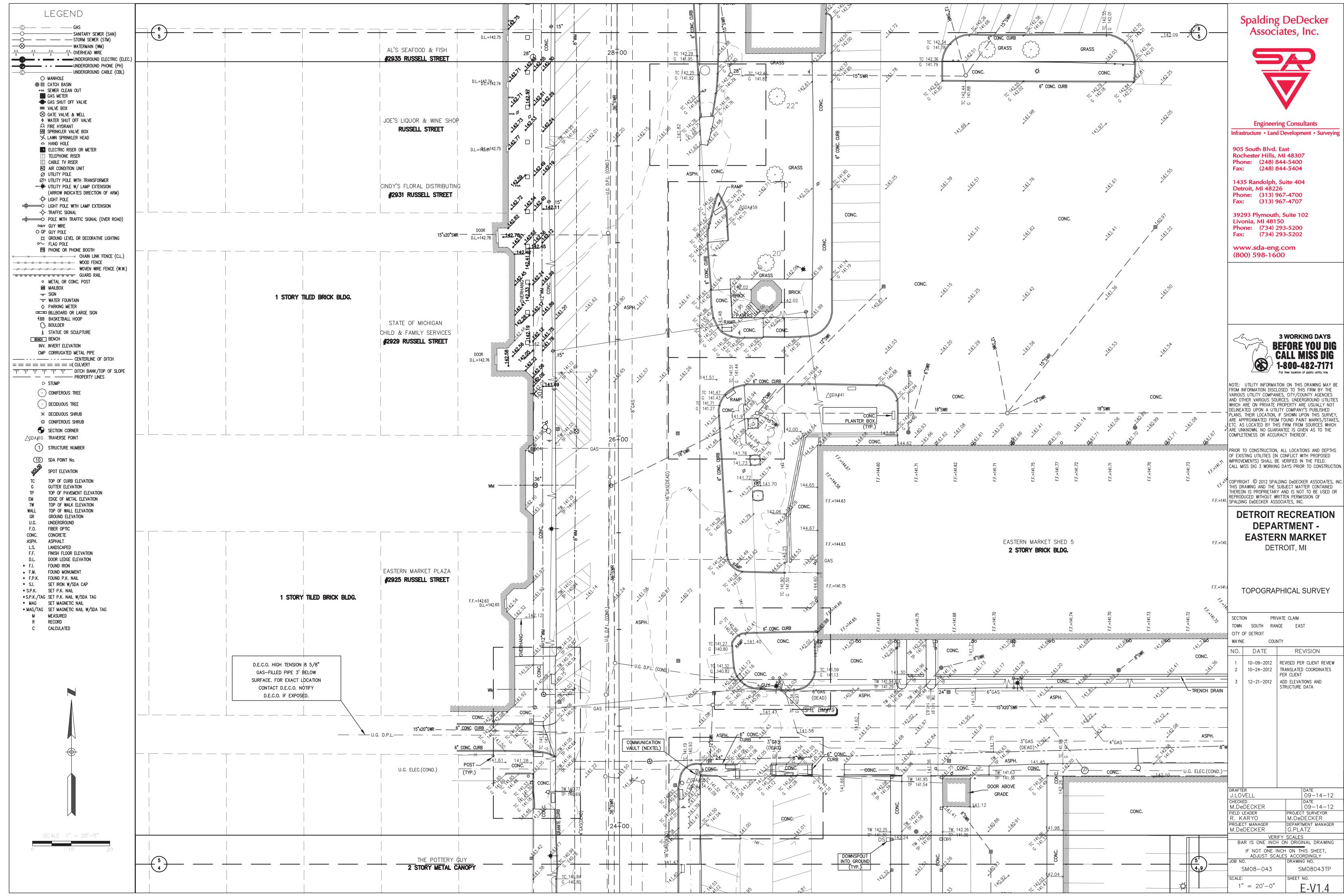
PROJECT NUMBER

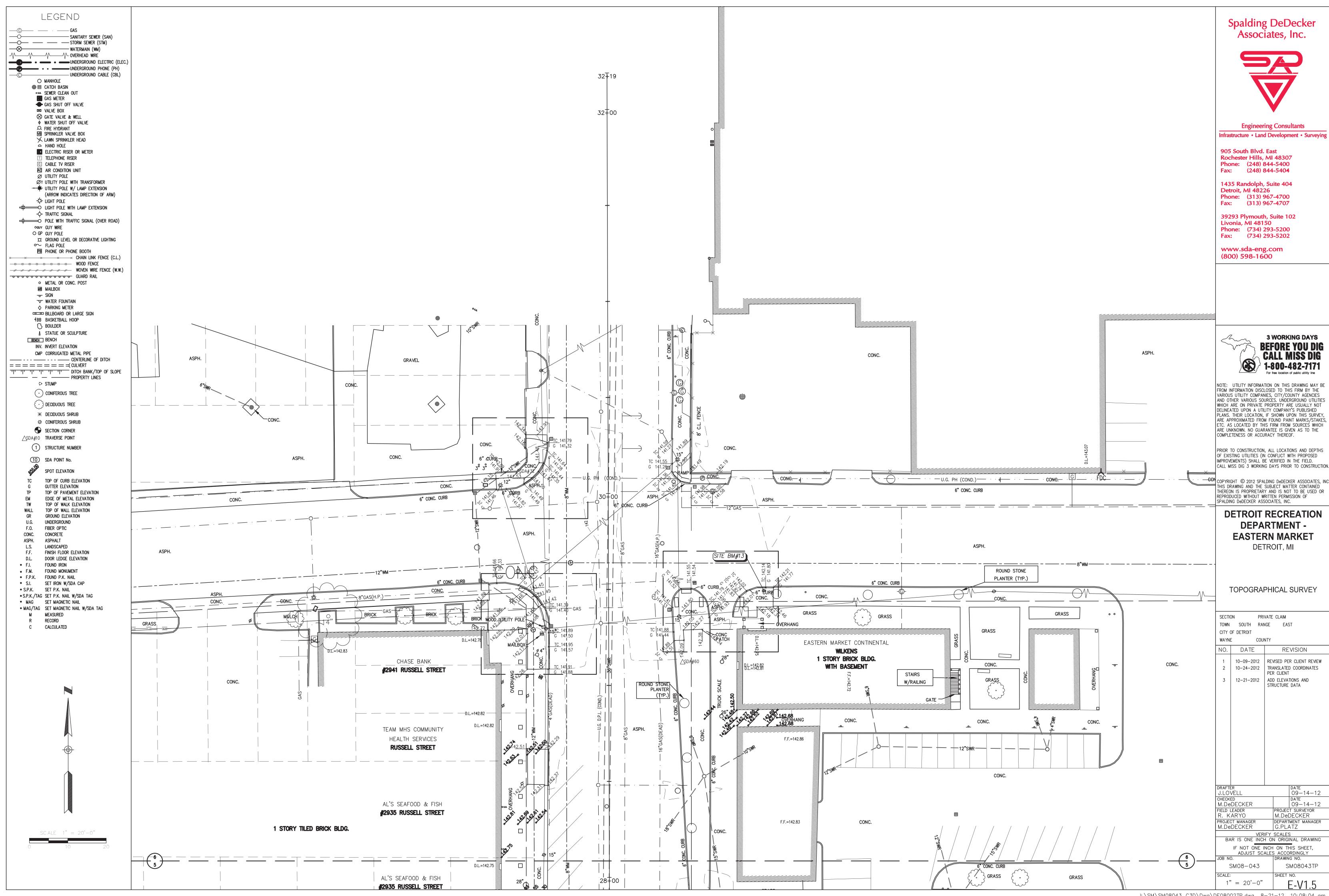


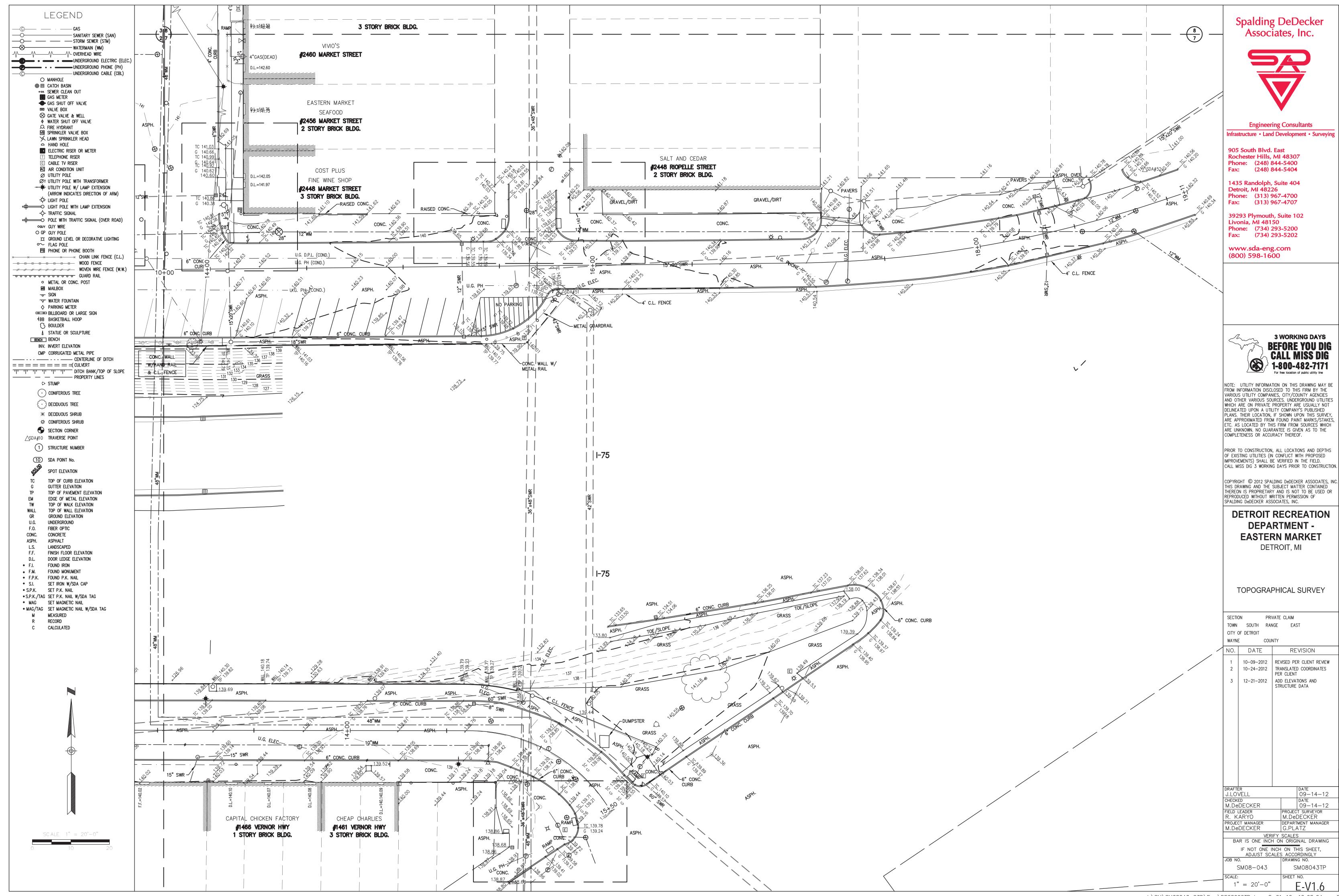












LEGEND					STE	RUCTURE TABLE						
GAS SANITARY SEWER (SAN) STORM SEWER (STM) WATERMAIN (WM)	1 SQUARE CATCH BASIN RIM=141.09 12" TO #22 (R) TOP/WATER @ 137.94	27 PUBLIC LIGHTING MANHOLE RIM=144.53	62) SQUARE CATCH BASIN RIM=140.46 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 136.16	95) SEWER MANHOLE RIM=141.93 15"CLAY @ 132.73 AT AZ. 120* 15"CLAY @ 135.48 AT AZ. 40*	129SEWER MANHOLE RIM=141.90 12"CLAY @ 138.52 TO #130 12"CONC. @ 134.40 TO #634	(165) SQUARE CATCH BASIN RIM=143.48 BOTTOM/ELBOW @ 141.28 AT AZ. 340°	22)SQUARE CATCH BASIN RIM=144.80 NO PIPES VISIBLE - FILLED WITH DEBRIS TOP/DEBRIS @ 139.65	260)SQUARE CATCH BASIN RIM=144.48 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 138.98	294 SEWER MANHOLE RIM=141.82 15" PIPE TO #83 (R)	328 ROUND CATCH BASIN RIM=140.63	367 SEWER MANHOLE  RIM=141.79 12"CONC. @ 135.79 AT AZ. 245° 12"CLAY @ 135.64 TO #369	Spalding DeDecker Associates, Inc.
OVERHEAD WIRE  UNDERGROUND ELECTRIC (ELEC.)  UNDERGROUND PHONE (PH)	BOTTOM/STRUCTURE @ 135.64  2 GATE VALVE & WELL RIM=141.39	28 SEWER MANHOLE RIM=141.84	(64)SQUARE CATCH BASIN RIM=140.31 NO PIPES VISIBLE AS OF 12-17-12	12"CLAY @ 135.38 TO EAST 15"CLAY @ 131.43 AT AZ. 35" (96) SEWER MANHOLE	(130) SQUARE CATCH BASIN RIM=141.44 BOTTOM/ELBOW @ 139.19 TO #129	(166) ELECTRIC MANHOLE RIM=145.05	222 GATE VALVE & WELL RIM=144.66	(261) SEWER MANHOLE RIM=145.75	295 SEWER MANHOLE RIM=141.41	329 SQUARE CATCH BASIN NO PIPES VISIBLE UNDER GRAVEL	6"CLAY @ 134.60 AT AZ. 350°  368 SQUARE CATCH BASIN RIM=141.35	
UNDERGROUND CABLE (CBL)  MANHOLE  CATCH BASIN  SEWER CLEAN OUT  GAS METER	48" PIPE (EAST/WEST) (R) TOP/WATER @ 137.08 BOTTOM/STRUCTURE @ 134.69  3 SQUARE CATCH BASIN	29 PUBLIC LIGHTING MANHOLE RIM=141.56  30 SQUARE CATCH BASIN	TOP OF DEBRIS @ 137.21  (65) SEWER MANHOLE  RIM=141.39	RIM=141.51  (97) PUBLIC LIGHTING MANHOLE RIM=141.49	131) GATE VALVE & WELL RIM=142.39	167) SEWER MANHOLE RIM=143.53 12"CLAY @ 139.53 AT AZ. 35° 12"CONC. @ 138.33 AT AZ. 100° 12"CONC. @ 138.68 AT AZ. 165°	223 SQUARE CATCH BASIN RIM=144.17 12"CONC. @ 134.15 AT AZ. 310"	262) GATE VALVE & WELL RIM=146.14	296 GATE VALVE & WELL RIM=141.01  297)SQUARE CATCH BASIN	330 SQUARE CATCH BASIN RIM=140.08 BOTTOM/ELBOW @ 136.43 TO NORTHEAS	BOTTOM/STRUCTURE @ 134.10  T 369 SEWER MANHOLE RIM=141.80 4"CLAY @ 136.35 AT AZ. 10"	
GAS SHUT OFF VALVE  VALVE BOX  GATE VALVE & WELL  WATER SHUT OFF VALVE	RIM=140.07 NO PIPE VISIBLE — FILLED WITH WATER TOP/WATER @ 136.72 BOTTOM/STRUCTURE @ 135.81	RIM=141.24 12"CLAY @ 135.69 TO #26	(66)GATE VALVE & WELL (SQUARE/METER) RIM=141.34 TOP/DEBRIS @ 136.59	98) GATE VALVE & WELL RIM=141.29	(32) PUBLIC LIGHTING MANHOLE RIM=142.39	(168)SQUARE CATCH BASIN RIM=143.50 NO PIPES VISIBLE — FILLED WITH DEBRIS	— 224 GATE VALVE & WELL RIM=144.82	(63) SQUARE CATCH BASIN RIM=145.39 NO PIPES VISIBLE – FILLED WITH WATER BOTTOM/STRUCTURE @ 139.84	RIM=140.79 TOP/WATER @ 137.14 BOTTOM/STRUCTURE @ 136.94	RIM=140.45	4"CLAY @ 136.30 AT AZ. 340° 12"CLAY @ 135.35 TO #367 370 SQUARE CATCH BASIN	
□ FIRE HYDRANT □ SPRINKLER VALVE BOX □ LAWN SPRINKLER HEAD	4 SQUARE CATCH BASIN RIM=140.62 12"CONC. @ 135.77 TO EAST	(31) PUBLIC LIGHTING MANHOLE RIM=142.14	TUNNEL RUNS EAST/WEST  67 SEWER MANHOLE	(99) SQUARE CATCH BASIN	42"BRICK @ 129.34 TO NORTH	TOP/DEBRIS @ 139.50  372) SEWER MANHOLE	225 ELECTRIC MANHOLE RIM=144.81	264) SEWER MANHOLE RIM=146.02	298 PHONE MANHOLE RIM=141.10	(332) SQUARE CATCH BASIN RIM=140.17 BOTTOM/ELBOW @ 136.07 TO SOUTHWES	RIM=141.77 TOP/DEBRIS @ 133.92	Engineering Consultants  Infrastructure • Land Development • Surveying
HAND HOLE  LECTRIC RISER OR METER  TELEPHONE RISER  C CABLE TV RISER	12"CONC. @ 135.27 TO SOUTH BOTTOM/STRUCTURE @ 135.26	32) SEWER MANHOLE RIM=142.08	RIM=141.74  (68) GATE VALVE & WELL	RIM=140.93  NO PIPES VISIBLE AS OF 12-17-12  TOP/DEBRIS @ 137.21	36"BRICK @ 119.54 TO AZ. 240° (134)SQUARE CATCH BASIN RIM=141.48 TOP/DEBRIS @ 136.62		226SQUARE CATCH BASIN RIM=143.57 NO PIPES VISIBLE	265 ELECTRIC MANHOLE RIM=145.99	299SQUARE CATCH BASIN RIM=140.87 TOP/WATER @ 138.37	333 SEWER MANHOLE  RIM=142.72  12"CLAY @ 135.72 AT AZ. 195°  12"CLAY @ 135.85 AT AZ. 300°	(37) SQUARE CATCH BASIN RIM=140.97 TOP/DEBRIS @ 134.07	905 South Blvd. East Rochester Hills, MI 48307 Phone: (248) 844-5400
AIR CONDITION UNIT  Ø UTILITY POLE  Ø⊤ UTILITY POLE WITH TRANSFORMER  → ₩ UTILITY POLE W/ LAMP EXTENSION	RIM=141.16 12"CONC. @ 133.86 TO EAST 12"CONC. @ 133.44 TO SOUTH 12"CONC. @ 133.35 TO WEST	(33) PUBLIC LIGHTING MANHOLE RIM=140.90	RIM=141.05  69 SQUARE CATCH BASIN RIM=141.33	(100) PUBLIC LIGHTING MANHOLE RIM=142.01  (101) GATE VALVE & WELL	10"CLAY @139.05 AT AZ. 70°  (135) GATE VALVE & WELL  RIM=142.08	15"CONC. @ 132.54 AT "AZ. 55"  170 GATE VALVE & WELL RIM=143.69	TOP/WATER @ 135.97  (227)SQUARE CATCH BASIN RIM=143.38 NO PIPES VISIBLE — FILLED WITH WATER	(266) SQUARE CATCH BASIN RIM=145.61	BOTTOM/STRUCTURE @ 136.52  300 SEWER MANHOLE RIM=140.93	12"CLAY @ 135.42 TO #282  334)PUBLIC LIGHTING MANHOLE RIM=140.53 FILLED WITH WATER	(372) SEWER MANHOLE RIM=141.36 15"CLAY @ 132.16 AT AZ. 120° 12"CLAY @ 135.41 AT AZ. 265° 12"CLAY @ 133.98 AT AZ. 65°	Fax: (248) 844-5404  1435 Randolph, Suite 404  Detroit, MI 48226
(ARROW INDICATES DIRECTION OF ARM) - 中 LIGHT POLE WITH LAMP EXTENSION	6 GATE VALVE & WELL RIM=141.73 TOP/PIPE @ 135.93 (NORTH/SOUTH)	34) PHONE MANHOLE RIM=141.06	70) SQUARE CATCH BASIN	RIM=141.94	136 GATE VALVE & WELL RIM=142.13	171)SQUARE CATCH BASIN RIM=143.51	BOTTOM/STRUCTURE @ 137.28  228 ELECTRIC MANHOLE	BOTTOM/STRUCTURE @ 141.36  — 267 SEWER MANHOLE  RIM=145.75	TOP/DEBRIS @ 137.63  301)SQUARE CATCH BASIN RIM=141.22	BOTTOM/STRUCTURE @ 134.98  335)SQUARE CATCH BASIN	15"CLAY @ 135.59 AT AZ. 35° 12"CLAY @ 134.48 AT AZ. 350° (373) ROUND CATCH BASIN	Phone: (313) 967-4700 Fax: (313) 967-4707
-\$\rightarrow\$ TRAFFIC SIGNAL  \$\rightarrow\$ POLE WITH TRAFFIC SIGNAL (OVER ROAD)  \$\rightarrow\$ GUY WIRE  \$\rightarrow\$ GP GUY POLE	BOTTOM/STRUCTURE @ 126.61  7 PUBLIC LIGHTING MANHOLE RIM=141.90	35 GATE VALVE & WELL RIM=141.07	RIM=140.70 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 135.40		(137) PUBLIC LIGHTING MANHOLE RIM=142.42	NO PIPES VISIBLE BOTTOM/STRUCTURE @ 137.56	RIM=144.37  (229)SQUARE CATCH BASIN	— (268) SQUARE CATCH BASIN RIM=145.50	TOP/WATER @ 140.22 BOTTOM/STRUCTURE @ 138.01 (302)SQUARE CATCH BASIN	RIM=140.30 TOP/WATER @ 135.95 BOTTOM/STRUCTURE @ 134.50	RIM=140.71 TOP/DEBRIS @ 135.76	39293 Plymouth, Suite 102 Livonia, MI 48150 Phone: (734) 293-5200
☐ GROUND LEVEL OR DECORATIVE LIGHTING  FLAG POLE  PHONE OR PHONE BOOTH	TOP/WIRE @ 137.44 (NORTH/SOUTH) BOTTOM/STRUCTURE @ 133.90  (8) SQUARE CATCH BASIN	36 SEWER MANHOLE RIM=141.50	71) PUBLIC LIGHTING MANHOLE RIM=141.79	103SEWER MANHOLE RIM=141.88 12"CONC. @ 132.98 TO #448 12"CONC. @ 131.53 TO #105	(38) SQUARE CATCH BASIN	RIM=144.27	RIM=143.71 NO PIPES VISIBLE TOP/WATER @ 135.58	BOTTOM/STRUCTURE @ 141.00  (269) ELECTRIC MANHOLE  RIM=146.32	RIM=141.07 TOP/WATER @ 137.56 BOTTOM/STRUCTURE @ 136.14	336 GATE VALVE & WELL RIM=140.55 TOP/DEBRIS @ 139.03	RIM=140.01 TOP/DEBRIS @ 134.66	Fax: (734) 293-5202  www.sda-eng.com (800) 598-1600
X         X         X         X         X         CHAIN LINK FENCE (C.L.)	RIM=140.42 NO PIPES VISIBLE — FILLED WITH DEBRIS PIPE TO #60 TOP/WATER @ 136.75	S 37 PUBLIC LIGHTING MANHOLE RIM=141.49	72 PUBLIC LIGHTING MANHOLE RIM=141.90	(104)SEWER MANHOLE RIM=141.89 NO PIPES VISIBLE — FILLED WITH WATER	TOP/WATER @ 135.06  (139)ROUND CATCH BASIN	(173) SQUARE CATCH BASIN RIM=143.53 BOTTOM/ELBOW @ 141.28 AT AZ. 15°	230 GATE VALVE & WELL RIM=141.00	270 SQUARE CATCH BASIN RIM=145.30	303 SEWER MANHOLE RIM=141.81	33) SQUARE CATCH BASIN RIM=140.62	375)SQUARE CATCH BASIN RIM=141.21 12"CLAY @ 132.26 TO #114 12"CLAY @ 133.61 TO #122	(800) 398-1600
O METAL OR CONC. POST  ■■ MAILBOX  — SIGN	BOTTOM/STRUCTURE @ 134.85  9 SQUARE CATCH BASIN RIM=140.55	38 GATE VALVE & WELL RIM=141.34	73) SQUARE CATCH BASIN RIM=141.03 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 136.28	BOTTOM/STRUCTURE @ 138.84  105 SEWER MANHOLE RIM=142.53	RIM=143.49 TOP/WATER @ 138.09 6"CLAY @ 138.23 AT AZ. 110"	(174)SEWER MANHOLE RIM=144.43 12"CONC. @ 131.61 AT AZ. 235° 12"CONC. @ 137.76 TO #173	23) GATE VALVE & WELL RIM=141.01	BOTTOM/STRUCTURE @ 139.65  (271) SQUARE CATCH BASIN	304) SEWER MANHOLE RIM=141.32	338)SQUARE CATCH BASIN RIM=140.46 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 133.20	376ROUND CATCH BASIN RIM=141.68 TOP/WATER @ 140.98	
→ WATER FOUNTAIN  ◇ PARKING METER  □ □ □ BILLBOARD OR LARGE SIGN  ¹BB BASKETBALL HOOP	12"CLAY @ 137.70 TO #10 BOTTOM/STRUCTURE @ 137.70  (10) SEWER MANHOLE	39 PUBLIC LIGHTING MANHOLE RIM=140.84 12"CONC. @ 132.89 AT AZ. 255*	74 GATE VALVE & WELL RIM=141.76	15"CONC. @ 132.48 AT AZ. 160° 10"CONC. @ 132.77 AT AZ. 60° 18"CONC. @ 131.40 AT AZ. 215° 6"CLAY @ 134.14 AT AZ. 340°	RIM=143.42	175 ELECTRIC MANHOLE RIM=144.84	232 MANHOLE RIM=141.12	RIM=144.02 BOTTOM/STRUCTURE @ 137.07  272) SEWER MANHOLE	306 SEWER MANHOLE RIM=141.77 NO PIPES VISIBLE TOP/WATER @ 131.77	339 SEWER MANHOLE RIM=141.84	TOP/DEBRIS @ 139.60  377) PUBLIC LIGHTING MANHOLE RIM=142.27	
BOULDER  A STATUE OR SCULPTURE  BENCH INV. INVERT ELEVATION	RIM=140.66 12"CLAY @ 136.54 TO #9 TOP/WATER @ 136.66 BOTTOM/STRUCTURE @ 136.29	(40) SQUARE CATCH BASIN RIM=140.69 12"CONC. @ 132.89 @ AZ. 255*	75) PUBLIC LIGHTING MANHOLE RIM=141.79	106) SEWER MANHOLE RIM=142.54	(42)SQUARE CATCH BASIN RIM=142.43 12"CONC. @ 133.13 TO WEST 12"CONC. @ 133.24 TO #144	176) SEWER MANHOLE RIM=144.44 36"BRICK @ 132.01 TO NORTH	233 GATE VALVE & WELL RIM=141.32	RIM=144.20  273 SEWER MANHOLE	BOTTOM/STRUCTURE @ 127.04  305) GATE VALVE & WELL RIM=141.37	— 340 SQUARE CATCH BASIN RIM=140.63 TOP/WATER @ 132.89	(378)ROUND CATCH BASIN RIM=141.31	3 WORKING DAYS DEEDDE VOIL DIC
CMP CORRUGATED METAL PIPE	FILLED WITH WATER & DEBRIS  11) PUBLIC LIGHTING MANHOLE RIM=141.62	TOP/WATER @ 133.39 AS OF 12-17-12 41) SQUARE CATCH BASIN RIM=140.37 12"CONC. @ 132.53 TO #36	(76) PUBLIC LIGHTING MANHOLE RIM=141.73	107) PUBLIC LIGHTING MANHOLE RIM=142.48	(143) GATE VALVE & WELL RIM=142.96	36"BRICK @ 132.01 TO SOUTH 12"CONC. @ 137.36 TO #177 12"CONC. @ 138.80 AT AZ. 160°	234)SQUARE CATCH BASIN RIM=141.13 4"METAL @ 138.23 AT AZ. 160° TOP/DEBRIS @ 136.13	RIM=144.00  274 GATE VALVE & WELL	307)SQUARE CATCH BASIN RIM=141.31	BOTTOM/STRUCTURE @ 131.70  341) SQUARE CATCH BASIN RIM=140.87 6"CLAY @ 137.59 TO NORTHEAST	6"METAL @ 139.81 AT AZ. 295° TOP/DEBRIS @ 137.76  379 PUBLIC LIGHTING MANHOLE	BEFORE YOU DIG CALL MISS DIG 1-800-482-7171
TI TI TI TI TI TI TI DITCH BANK/TOP OF SLOPE  ———————————————————————————————————	TOP/WIRE @ 137.71 (NORTH/SOUTH) BOTTOM/STRUCTURE @ 133.64  (12) SQUARE CATCH BASIN	12"CONC. @ 132.52 TO #40  42 ACCESS MANHOLE RIM=141.67	(77) SQUARE CATCH BASIN (RIM=140.95 (NO PIPES VISIBLE AS OF 12-17-12	(108) SQUARE CATCH BASIN () RIM=141.36 () NO PIPES VISIBLE AS OF 12-17-12	(144) SQUARE CATCH BASIN RIM=142.53 12"CONC. @ 133.04 TO #142	——(177)SQUARE CATCH BASIN RIM=144.44 TOP/12" @ 140.34 (CAPPED) TOP/WATER @ 138.94	235 GATE VALVE & WELL RIM=141.43	RIM=143.82  (275) SEWER MANHOLE	NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 135.88		(380) ROUND CATCH BASIN	NOTE: UTILITY INFORMATION ON THIS DRAWING MAY BE FROM INFORMATION DISCLOSED TO THIS FIRM BY THE
CONIFEROUS TREE  DECIDUOUS TREE	RIM=140.79 NO PIPE VISIBLE TOP/WATER @ 135.95 BOTTOM/STRUCTURE @ 134.75	UNABLE TO OPEN  43 ACCESS MANHOLE RIM=141.69	TOP/WATER @ 137.45 BOTTOM/STRUCTURE @ 135.42 78 SQUARE CATCH BASIN	TOP/WATER @ 137.46 BOTTOM/STRUCTURE @ 135.51  (109) SQUARE CATCH BASIN  RIM=141.52	(145) PUBLIC LIGHTING MANHOLE RIM=142.90	178 ELECTRIC MANHOLE RIM=144.82	243SEWER MANHOLE RIM=141.93	RIM=143.78  (276) SQUARE CATCH BASIN	RIM=140.96 BOTTOM/ELBOW @ 137.11 TO #319  (309) SQUARE CATCH BASIN	RIM=142.00 12"CLAY @ 132.15 TO #316 12"CLAY @ 131.02 TO SOUTH 6"CONC. @ 135.20 TO NORTH	RIM=141.24 TOP/DEBRIS @ 137.94 (381) SQUARE CATCH BASIN	VARIOUS UTILITY COMPANIES, CITY/COUNTY AGENCIES AND OTHER VARIOUS SOURCES. UNDERGROUND UTILITIES WHICH ARE ON PRIVATE PROPERTY ARE USUALLY NOT DELINEATED UPON A UTILITY COMPANY'S PUBLISHED
★ DECIDUOUS SHRUB      CONIFEROUS SHRUB      SECTION CORNER	(13) SQUARE CATCH BASIN RIM=141.17 NO PIPES VISIBLE — FILLED WITH WATER	UNABLE TO OPEN  44 ACCESS MANHOLE RIM=141.68	RIM=140.70 BOTTOM/STRUCTURE @ 137.11  79 SEWER MANHOLE	NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 136.27	(146) GATE VALVE & WELL RIM=143.30	179 SEWER MANHOLE RIM=144.67	8"CONC. @ 138.83 TO SOUTHWEST BOTTOM/STRUCTURE @ 136.47  244SQUARE CATCH BASIN	RIM=142.86 BOTTOM/STRUCTURE @ 136.61  (277) SEWER MANHOLE	RIM=140.85	343 ELECTRIC MANHOLE RIM=142.12 FILLED WITH WATER	RIM=141.50 TOP/DEBRIS @ 137.50 382) SQUARE CATCH BASIN	PLANS. THEIR LOCATION, IF SHOWN UPON THIS SURVEY, ARE APPROXIMATED FROM FOUND PAINT MARKS/STAKES ETC. AS LOCATED BY THIS FIRM FROM SOURCES WHICH ARE UNKNOWN. NO GUARANTEE IS GIVEN AS TO THE COMPLETENESS OR ACCURACY THEREOF.
△SDA#10 TRAVERSE POINT  1 STRUCTURE NUMBER	BOTTOM/STRUCTURE @ 135.94  (14) SQUARE CATCH BASIN RIM=141.31	UNABLE TO OPEN  45 SEWER MANHOLE	RIM=141.03 12"CONC. TO EAST 12"CONC. TO WEST 12"CONC. TO SOUTH	RIM=141.60  (111) GATE VALVE & WELL	(147) GATE VALVE & WELL RIM=143.53	(180) ELECTRIC MANHOLE RIM=144.93	RIM=141.86  NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 135.73	RIM=143.85  (278) SQUARE CATCH BASIN	(310) ROUND CATCH BASIN RIM=140.69 COULD NOT OPEN	TOP/WIRE @ 139.05 (NORTH/WEST) BOTTOM/STRUCTURE @ 135.71  344) SEWER MANHOLE	RIM=140.65 12"CONC. @ 136.68 TO #443	PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED
SPOT ELEVATION	NO PIPE VISIBLE — FILLED WITH WATER  15 SEWER MANHOLE  RIM=141.05	46) SQUARE CATCH BASIN	80 SEWER MANHOLE RIM=141.74	RIM=142.03  (112) SQUARE CATCH BASIN	148 GATE VALVE & WELL RIM=143.40	(181) GATE VALVE & WELL RIM=145.11	24) SQUARE CATCH BASIN RIM=142.28 BOTTOM/STUCTURE @ 134.50	RIM=141.34 BOTTOM/ELBOW @ 137.79 AT AZ. 70°	(311) SEWER MANHOLE RIM=140.78	RIM=142.12 FILLED WITH DEBRIS 10"CLAY @ 130.79 AT AZ. 195° — 12"CLAY @ 130.92 AT AZ. 285°	RIM=141.48  384) PUBLIC LIGHTING MANHOLE	IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTIO
TC TOP OF CURB ELEVATION G GUTTER ELEVATION TP TOP OF PAVEMENT ELEVATION EM EDGE OF METAL ELEVATION	6"PVC @ 136.72 TO #439 6"PVC @ 135.99 AT AZ. 195° 12"CONC. @ 135.00 AT AZ. 125° 12"CONC. @ 135.25 AT AZ. ???°	RIM=140.56 TOP/WATER @ 136.46 TOP/DEBRIS @ 135.66	(81) SQUARE CATCH BASIN (RIM=140.72 NO PIPES VISIBLE AS OF 12-17-12	RIM=141.45 12"CONC. @ 133.55 TO #114	149 PHONE MANHOLE RIM=143.72	(182) SEWER MANHOLE RIM=144.68 36"BRICK @ 132.55 AT AZ. 180°	248 ELECTRIC MANHOLE RIM=142.49	RIM=141.84	(312) ROUND CATCH BASIN RIM=141.50 12"CLAY @ 136.28 TO #313 15"x20"CLAY @ 130.81 TO SOUTHWEST	345 SQUARE CATCH BASIN RIM=140.66 10"CLAY @ 137.41 AT AZ. 20°	RIM=141.54	COPYRIGHT © 2012 SPALDING DEDECKER ASSOCIATES, IN THIS DRAWING AND THE SUBJECT MATTER CONTAINED THEREON IS PROPRIETARY AND IS NOT TO BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION OF SPALDING DEDECKER ASSOCIATES. INC.
TW TOP OF WALK ELEVATION WALL TOP OF WALL ELEVATION GR GROUND ELEVATION U.G. UNDERGROUND	12"CLAY @ 135.05 AT TO #16  16 SQUARE CATCH BASIN RIM=141.02	(47) PUBLIC LIGHTING MANHOLE RIM=141.80			(150) PUBLIC LIGHTING MANHOLE RIM=143.90	36"BRICK @ 132.43 TO NORTH 12"CLAY @ 139.12 TO #183 12"CONC. @ 134.46	247)SQUARE CATCH BASIN RIM=142.64 TOP/WATER @ 137.49 BOTTOM/STRUCTURE @ 139.64	(28) SQUARE CATCH BASIN RIM=141.56 TOP/WATER @ 138.16 BOTTOM/STRUCTURE @ 136.28	15"x20"CLAY @ 131.09 TO NORTHEAST  313 SQUARE CATCH BASIN RIM=141.45	346) SQUARE CATCH BASIN RIM=141.36 NO PIPES VISIBLE — FILLED WITH WATER	385 GATE VALVE & WELL RIM=141.88	DETROIT RECREATION DEPARTMENT -
F.O. FIBER OPTIC CONC. CONCRETE ASPH. ASPHALT L.S. LANDSCAPED	NO PIPES VISIBLE BOTTOM/STRUCTURE @ 134.12 12" CLAY TO #15 (R)  (17) SQUARE CATCH BASIN	(48) SQUARE CATCH BASIN RIM=140.93 NO PIPES VISIBLE AS OF 12-17-12 TOP/WATER @ 137.16	(NO PIPE VISIBLE AS OF 12-17-12 (BOTTOM/STRUCTURE @ 136.17 TOP/WATER @ 136.42 12"CLAY TO #83 (R) (83) SEWER MANHOLE	(114)SQUARE CATCH BASIN ) RIM=141.34 ) 12"CONC. @ 132.71 TO #112 12"CONC. @ 132.71 TO #375	(151) GATE VALVE & WELL RIM=143.82	183) SQUARE CATCH BASIN RIM=143.47 NO PIPES VISIBLE - FILLED WITH DEBRIS TOP/DEBRIS @ 137.22	248 ELECTRIC MANHOLE RIM=143.40	(28) SQUARE CATCH BASIN RIM=141.94 TOP/WATER @ 139.44 BOTTOM/STRUCTURE @ 137.39	BOTTOM/ELBOW @ 136.60 TO #312  (315)SQUARE CATCH BASIN RIM=140.29	BOTTOM/STRUCTURE @ 136.60  347 SQUARE CATCH BASIN RIM=140.47	386 PUBLIC LIGHTING MANHOLE RIM=141.76  387) GATE VALVE & WELL	EASTERN MARKET  DETROIT, MI
F.F. FINISH FLOOR ELEVATION D.L. DOOR LEDGE ELEVATION F.I. FOUND IRON F.M. FOUND MONUMENT	RIM=141.33  NO PIPE VISIBLE  TOP/WATER @ 137.02  BOTTOM/STRUCTURE @ 135.12	49 GATE VALVE & WELL RIM=141.73	RIM=140.93 12"CLAY @ 136.13 TO #82 15"x20" @ 129.93 AT AZ. 245° 15"x20" @ 130.13 TO #294	(115) SEWER MANHOLE RIM=141.93	(152) GATE VALVE & WELL RIM=143.69	184 ELECTRIC MANHOLE RIM=145.01	249 SQUARE CATCH BASIN RIM=140.84 NO PIPES VISIBLE-FILLED WITH WATER TOP/WATER @ 136.59	282) SEWER MANHOLE RIM=142.24 42"BRICK @ 128.34 TO NORTH	NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 134.47  (316)SEWER MANHOLE RIM=141.26	12"CONC. @ 135.84 TO #65 12"CONC. @ 135.84 AT AZ. 60° 349SQUARE CATCH BASIN RIM=140.87	RIM=141.80	
F.P.K. FOUND P.K. NAIL S.I. SET IRON W/SDA CAP S.P.K. SET P.K. NAIL	(18) SQUARE CATCH BASIN (RIM=141.13 (NO PIPE VISIBLE AS OF 12-17-12	50 PUBLIC LIGHTING MANHOLE RIM=141.87	84 PUBLIC LIGHTING MANHOLE RIM=141.41	116)SQUARE CATCH BASIN RIM=141.31 NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 135.06	(53) GATE VALVE & WELL RIM=143.60	185 ELECTRIC MANHOLE RIM=145.07	BOTTOM/STRUCTURE @ 135.54 15"x20" PIPE TO WEST (R)	42"BRICK @ 128.34 TO SOUTH 12"CONC. @ 134.20 TO #333	12"CONC. @ 130.48 TO #342 12"CONC. @ 130.33 TO #319	NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 135.37  (356) SQUARE CATCH BASIN	RIM=141.83  (389) SQUARE CATCH BASIN	STRUCTURE TABLE
S.P.K./TAG SET P.K. NAIL W/SDA TAG  MAG SET MAGNETIC NAIL  MAG/TAG SET MAGNETIC NAIL W/SDA TAG  M MEASURED	TOP/WATER @ 137.63 BOTTOM/STRUCTURE @ 135.45 (19) SEWER MANHOLE	51) ELECTRIC MANHOLE RIM=141.01 TOP/WATER @ 137.25 BOTTOM/STRUCTURE @ 135.89	85) SQUARE CATCH BASIN RIM=140.62 NO PIPES VISIBLE — FILLED WITH WATER	117) PHONE MANHOLE RIM=141.96	(54) SQUARE CATCH BASIN RIM=142.84 TOP/WATER @ 135.54	186 GATE VALVE & WELL RIM=143.60	RIM=143.47 42"BRICK @ 129.62 AT AZ. 320° 42"BRICK @ 129.42 AT AZ. 140° 15"BRICK @ 130.77 AT AZ. 70°	RIM=141.72 BOTTOM/ELBOW @ 137.45 TO NORTHWES	DIM 141 17	RIM=141.14	RIM=141.25 12"CONC. @ 135.55	SECTION PRIVATE CLAIM
R RECORD C CALCULATED	RIM=141.37 8"CLAY @ 136.85 AT AZ. 205° 12"CLAY @ 137.23 AT AZ. 255° 12"CLAY @ 137.20 TO SOUTH	52) SQUARE CATCH BASIN RIM=141.10 12"CLAY@ 139.00 TO #53 (BULKHEAD)	BOTTOM/STRUCTURE @ 134.34  (86) GATE VALVE & WELL  RIM=141.26	— (118) SQUARE CATCH BASIN RIM=141.20 NO PIPES VISIBLE — FILLED WITH WATER	12"CLAY @ 135.72 AT AZ. 285°	210 GATE VALVE & WELL RIM=142.16	12"CONC. @ 137.95 AT AZ. 335° TOP/PIPE @ 137.82 E/W THRU MH	RIM=142.19  (285) ELECTRIC MANHOLE	318 GATE VALVE & WELL RIM=141.71	RIM=140.36 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 135.51		TOWN SOUTH RANGE EAST  CITY OF DETROIT  WAYNE COUNTY
	BOTTOM/STRUCTURE @ 135.25  (20) SQUARE CATCH BASIN RIM=140.68	TOP/WATER @ 138.35" TOP/DEBRIS @ 137.80	RIM=141.26  —(87)SQUARE CATCH BASIN RIM=140.55	BOTTOM/STRUCTURE @ 135.45  (119) PUBLIC LIGHTING MANHOLE  RIM=141.57	(156) SEWER MANHOLE RIM=143.82	211) SQUARE CATCH BASIN RIM=140.73 NO PIPES VISIBLE — FILLED WITH DEBRIS	RIM=143.51	RIM=142.26  (286) SQUARE CATCH BASIN	(319) SEWER MANHOLE RIM=141.64	358 SQUARE CATCH BASIN RIM=141.10 12"CONC. @ 135.86 TO #359 12"CONC. @ 136.30 AT AZ. 160"	39) GATE VALVE & WELL RIM=141.90	NO. DATE REVISION  1 10-09-2012 REVISED PER CLIENT REVIEW
UPDATED STRUCTURE INFORMATION	NO PIPES VISIBLE — FILLED WITH DEBRISTOP/WATER @ 137.41 BOTTOM/STRUCTURE @ 135.06 12" TO #22 (R)	S RIM=140.75 TOP/WATER @ 137.45 BOTTOM/STRUCTURE @ 137.05 12"CLAY TO #52 (R)	NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 136.75	— (120) PUBLIC LIGHTING MANHOLE	(157) PUBLIC LIGHTING MANHOLE	212 SQUARE CATCH BASIN RIM=140.62	RIM=143.12 NO PIPES VISIBLE – FILLED WITH DEBRIS TOP/DEBRIS @ 137.67	RIM=140.97  —(287) GATE VALVE & WELL	320 GATE VALVE & WELL RIM=141.16	359SQUARE CATCH BASIN RIM=140.71 12"CONC. @ 135.81 TO #4 6"CLAY @ 136.56 TO NORTH	(392) GATE VALVE & WELL RIM=141.84 TOP/PIPE @ 135.84	2 10-24-2012 TRANSLATED COORDINATES PER CLIENT 3 12-21-2012 ADD ELEVATIONS AND
	21) SQUARE CATCH BASIN RIM=141.14 NO PIPE VISIBLE	54) GATE VALVE & WELL RIM=141.35	RIM=141.72	RIM=141.74  ———————————————————————————————————	RIM=143.72  (158) SQUARE CATCH BASIN	214) GATE VALVE & WELL RIM=144.68	253SQUARE CATCH BASIN RIM=143.24 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 137.69	RIM=142.32	(321) SEWER MANHOLE RIM=140.85	360 SQUARE CATCH BASIN RIM=141.37 BOTTOM/STRUCTURE @ 137.17	393 SEWER MANHOLE RIM=141.87	STRUCTURE DATA
	TOP/WATER @ 136.99 BOTTOM/STRUCTURE @ 135.94  (22) SEWER MANHOLE	55 PHONE MANHOLE SHOWN PER RECORD		RIM=142.12 (122) SQUARE CATCH BASIN	RIM=142.85 12"CONC. @ 136.10 AT AZ. 160° (159) PUBLIC LIGHTING MANHOLE	215) SQUARE CATCH BASIN RIM=144.24	254)SQUARE CATCH BASIN RIM=143.26	(288)SQUARE CATCH BASIN  RIM=142.24  NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 137.07	322)SQUARE CATCH BASIN RIM=140.62 NO PIPES VISIBLE	361 PHONE MANHOLE RIM=142.19	394 GATE VALVE & WELL RIM=141.58	
	RIM=141.35 12"CLAY @ 135.89 TO SOUTH 12"CLAY @ 135.78 TO #20 12"CLAY @ 135.95 AT AZ. 245°	(56) PUBLIC LIGHTING MANHOLE RIM=141.63	90 PUBLIC LIGHTING MANHOLE RIM=141.50	RIM=141.38 12"CLAY @ 134.60 TO #375 (123) PUBLIC LIGHTING MANHOLE	RIM=143.75 (160) GAS MANHOLE	TOP/WATER @ 136.24  216 ELECTRIC MANHOLE	NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 138.26	(289) GATE VALVE & WELL RIM=142.60	BOTTOM/STRUCTURE @ 135.57  323SQUARE CATCH BASIN RIM=140.80	362ROUND CATCH BASIN RIM=141.47	395) PUBLIC LIGHTING MANHOLE RIM=141.21	
	12"CLAY @ 135.79 TO #1  (23) ACCESS MANHOLE TO TUNNEL RIM=141.20	57) SEWER MANHOLE RIM=141.59	91) SQUARE CATCH BASIN RIM=140.47 NO PIPES VISIBLE AS OF 12-17-12	RIM=142.21 (124) GAS MANHOLE	RIM=144.47  (161) PUBLIC LIGHTING MANHOLE	RIM=145.05  217SQUARE CATCH BASIN	RIM=143.91 TOP/WATER @ 134.21	290) SQUARE CATCH BASIN RIM=141.86 TOP/WATER @ 138.01	NO PIPES VISIBLE BOTTOM/STRUCTURE @ 135.75	8"CLAY @ 137.99 AT AZ. 50° BOTTOM/STRUCTURE @ 132.62 363ROUND CATCH BASIN	396 PUBLIC LIGHTING MANHOLE RIM=141.36	
	TUNNEL HEADS SOUTH BOTTOM/STRUCTURE @ 138.00  24 SQUARE CATCH BASIN	58 GATE VALVE & WELL RIM=141.22	TOP/WATER @ 136.97 BOTTOM/STRUCTURE @ 136.22 92 GATE VALVE & WELL RIM=141.68	RIM=141.89	RIM=144.49  (162) SEWER MANHOLE	RIM=144.74 NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 139.09		BOTTOM/STRUCTURE @ 135.86  (29)SQUARE CATCH BASIN RIM=141.46	RIM=141.59  325 PHONE MANHOLE	RIM=141.04 8"CLAY @ 138.09 AT AZ. 85° 6"CLAY @ 138.21 AT AZ. 220°	397 ROUND CATCH BASIN RIM=141.63 TOP/DEBRIS @ 137.43	DRAFTER DATE J.LOVELL 09-14-12
	RIM=141.07 PIPE @ 137.32 TO SOUTHEAST TOP/WATER @ 137.82 BOTTOM/STRUCTURE @ 137.52	59 PUBLIC LIGHTING MANHOLE RIM=141.33	93) PUBLIC LIGHTING MANHOLE RIM=141.29	(125) GAS MANHOLE RIM=141.73	RIM=143.87 36"BRICK @ 131.26 TO NORTH 36"BRICK @ 131.26 TO SOUTH	218) SQUARE CATCH BASIN RIM=144.42 12"CONC. @ 138.27 TO #219	RIM=144.69  — (258) GATE VALVE & WELL	NO PIPES VISIBLE—FILLED WITH WATER BOTTOM/STRUCTURE @ 134.23	RIM=140.04	364) SQUARE CATCH BASIN RIM=141.37 TOP/DEBRIS @ 137.62	398 ROUND CATCH BASIN RIM=140.95 6"CLAY @ 137.60 AT AZ. 200°	CHECKED DATE M.DeDECKER 09-14-12 FIELD LEADER PROJECT SURVEYOR R.KARYO M.DeDECKER
	(25) SEWER MANHOLE RIM=142.11	60 SEWER MANHOLE RIM=140.81	94 PUBLIC LIGHTING MANHOLE	(126) GAS MANHOLE RIM=141.89	(163)SQUARE CATCH BASIN RIM=143.87 NO PIPES VISIBLE — FILLED WITH DEBRIS TOP/DEBRIS @ 136.07	219)SQUARE CATCH BASIN RIM=144.45 TOP/WATER @ 135.10 12"CONC. @ 137.10 TO #218	RIM=144.62  (259)SQUARE CATCH BASIN	RIM=141.74 TOP/WATER @ 138.29 BOTTOM/STRUCTURE @ 137.24	(326) SQUARE CATCH BASIN RIM=140.79	365)SQUARE CATCH BASIN RIM=140.44 12"CLAY @ 134.02 AT AZ. 75° BOTTOM/STRUCTURE @ 132.89	399 SEWER MANHOLE RIM=142.53	PROJECT MANAGER M.DeDECKER  VERIFY SCALES
	26 SQUARE CATCH BASIN RIM=141.23 TOP/DEBRIS @ 135.53	61 SQUARE CATCH BASIN RIM=140.57	RIM=141.30	127 SEWER MANHOLE RIM=142.30 12°CLAY @ 133.27 AT AZ. 65° 12°CLAY @ 133.25 AT AZ. 250°	164) PUBLIC LIGHTING MANHOLE RIM=144.63	220 ELECTRIC MANHOLE RIM=145.17	RIM=144.38  NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 139.53	293 GATE VALVE & WELL RIM=141.68	327 SQUARE CATCH BASIN RIM=141.15 TOP/DEBRIS @ 137.06	366 SQUARE CATCH BASIN RIM=140.80 BOTTOM/STRUCTURE @ 133.85	(400) SEWER MANHOLE RIM=141.28 12"CONC. @ 138.25 AT AZ. 30°	BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET,  ADJUST SCALES ACCORDINGLY  JOB NO. DRAWING NO.
	12"CLAY @ 135.33 AT AZ.295°(BULKHEA 12"CLAY @ 135.48 TO #30	NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 135.30		12"CLAY @ 134.50 AT AZ. 230°						,	51"PIPE @ 117.17 AT AZ. 250° 51"PIPE @ 117.17 AT AZ. 250°	SM08-043 SM08043TP  SCALE: SHEET NO.
												1" = 5'-0" E-V1.7

(638) PUBLIC LIGHTING MANHOLE

NOT VISIBLE IN FIELD

NOT VISIBLE IN FIELD

SHOWN PER RECORD LOCATION

(639) PUBLIC LIGHTING MANHOLE

SHOWN PER RECORD LOCATION

640 PUBLIC LIGHTING MANHOLE SHOWN PER RECORD LOCATION NOT VISIBLE IN FIELD

(641) SQUARE CATCH BASIN

RIM=143.88

LEGEND				
GAS SANITARY SEWER (SAN) STORM SEWER (STM) WATERMAIN (WM)  √ √ √ ✓ OVERHEAD WIRE	378ROUND CATCH BASIN RIM=141.31 6"METAL @ 139.81 AT AZ. 295° TOP/DEBRIS @ 137.76	413) PUBLIC LIGHTING MANHOLE RIM=141.29  414) GATE VALVE & WELL	449ROUND CATCH BASIN RIM=141.89 8"CLAY @ 137.89 AT AZ. 210° TOP/DEBRIS @ 137.79	©02 SEWER MANHOLE  RIM=143.02  12"CONC. @ 138.80 AT AZ. 240° 10"CONC. @ 136.41 AT AZ. 210° 10"CONC. @ 136.41 AT AZ. 260°
UNDERGROUND ELECTRIC (ELEC.)  UNDERGROUND PHONE (PH)  UNDERGROUND CABLE (CBL)  MANHOLE  CATCH BASIN	379 PUBLIC LIGHTING MANHOLE RIM=142.23	RIM=141.17  ——————————————————————————————————	450SQUARE CATCH BASIN RIM=142.32 NO PIPES VISIBLE — FILLED WITH DEBRIS TOP/DEBRIS @ 137.46	10"CONC. @ 136.35 AT AZ. 290° 12"CONC. @ 136.00 AT AZ. 60°  503 SQUARE CATCH BASIN RIM=141.58
GAS SHUT OFF VALVE  VALVE BOX	(38) ROUND CATCH BASIN RIM=141.24 TOP/DEBRIS @ 137.94  (38) SQUARE CATCH BASIN	RIM=141.13  ——————————————————————————————————	(451) SEWER MANHOLE RIM=142.52	TOP/WATER @ 132.77  504 SQUARE CATCH BASIN RIM=
⊗ GATE VALVE & WELL  Φ WATER SHUT OFF VALVE  □ FIRE HYDRANT □ SPRINKLER VALVE BOX  ★ LAWN SPRINKLER HEAD	RIM=141.50 TOP/DEBRIS @ 137.50 382 SQUARE CATCH BASIN RIM=140.65	——————————————————————————————————————	452) ELECTRIC MANHOLE RIM=142.61  453) SEWER MANHOLE	(505) PUBLIC LIGHTING MANHOLE RIM=142.88
☐ HAND HOLE  ■ ELECTRIC RISER OR METER  □ TELEPHONE RISER  □ CABLE TV RISER  ■ AIR CONDITION UNIT	12"CONC. @ 136.68 TO #443 383 PHONE MANHOLE RIM=141.48	12"CONC. @ 133.50 TO #443  418 SQUARE CATCH BASIN RIM=140.99 12"CONC. @ 136.69 TO #417	RIM=142.89 42"BRICK @ 128.84 AT AZ. 355° 27"BRICK @ 121.79 AT AZ. 35° 12"CONC. @ 136.54 AT AZ. 250° (DROP)	G06 GATE VALVE & WELL RIM=144.00
Ø UTILITY POLE ØT UTILITY POLE WITH TRANSFORMER  ■ UTILITY POLE W/ LAMP EXTENSION (ARROW INDICATES DIRECTION OF ARM)	384 PUBLIC LIGHTING MANHOLE RIM=141.54	419 GATE VALVE & WELL RIM=141.57	(45) SEWER MANHOLE RIM=143.13 42"CLAY @ 122.73 AT AZ. 160° 12"CLAY @ 138.62 AT AZ. 190° 8"CLAY @ 131.04 AT AZ. 285°	©29 PUBLIC LIGHTING MANHOLE RIM=141.38  ©56 ELECTRIC MANHOLE
・ 中 には い には	385 GATE VALVE & WELL RIM=141.88	420 PUBLIC LIGHTING MANHOLE RIM=142.07	455 GATE VALVE & WELL RIM=142.66	RIM=149.51  (55) ELECTRIC MANHOLE  RIM=157.50
OGUY GUY WIRE OGP GUY POLE  GROUND LEVEL OR DECORATIVE LIGHTING FLAG POLE PB PHONE OR PHONE BOOTH	(386) PUBLIC LIGHTING MANHOLE RIM=141.76  (387) GATE VALVE & WELL	(421) ACCESS MANHOLE (TRUCK SCALE) RIM=142.13 TOP/DEBRIS @ 137.58  (422) ACCESS MANHOLE (TRUCK SCALE)	456 SQUARE CATCH BASIN RIM=143.17 PIPE @ 138.37 AT AZ. 250° BOTTOM/STRUCTURE @ 137.37  457) SQUARE CATCH BASIN	(558) GATE VALVE & WELL RIM=143.95
CHAIN LINK FENCE (C.L.)  WOOD FENCE  WOVEN WIRE FENCE (W.W.)  GUARD RAIL	RIM=141.80  388 SEWER MANHOLE RIM=141.83	RIM=142.14 TOP/DEBRIS @ 137.49 423 SEWER MANHOLE RIM=141.74	RIM=143.69 BOTTOM/STRUCTURE @ 138.91  458 GATE VALVE & WELL	(559) GAS MANHOLE RIM=141.21
O METAL OR CONC. POST  M MAILBOX  SIGN  WATER FOUNTAIN  ◇ PARKING METER	389 SQUARE CATCH BASIN RIM=141.25 12"CONC. @ 135.55	TOP/DEBRIS @ 133.99  424 SQUARE CATCH BASIN RIM=141.25 TOP/DEBRIS @ 140.16	RIM=143.95  459 SEWER MANHOLE RIM=144.53	G60 GATE VALVE & WELL RIM=144.90
BILLBOARD OR LARGE SIGN  BB BASKETBALL HOOP  BOULDER  A STATUE OR SCULPTURE	390 PUBLIC LIGHTING MANHOLE RIM=141.69	425 SQUARE CATCH BASIN RIM=141.47 TOP/DEBRIS @ 139.13	460 SQUARE CATCH BASIN RIM=140.33 15"CMP @ 134.43	(561) SQUARE CATCH BASIN RIM=143.01 (562) GATE VALVE & WELL
BENCH INV. INVERT ELEVATION CMP CORRUGATED METAL PIPE CENTERLINE OF DITCH	391 GATE VALVE & WELL RIM=141.90	(426)SQUARE CATCH BASIN RIM=140.80 NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 134.45	TOP/DEBRIS @ 135.58  461) SEWER MANHOLE RIM=140.94 12"CONC. @ 135.33 TO #462	RIM=  665 GATE VALVE & WELL  RIM=140.15
= = = = = = = = (CULVERT	392 GATE VALVE & WELL RIM=141.84 TOP/PIPE @ 135.84  393 SEWER MANHOLE	(427)SQUARE CATCH BASIN RIM=141.51 NO PIPES VISIBLE — FILLED WITH WATER BOTTOM/STRUCTURE @ 136.26	12"CONC. @ 135.05 AT ÄZ. 70° 15"CONC. TO #460 10"CONC. @ 134.19 AT AZ. 250° BOTTOM/STRUCTURE @ 136.19	613 GATE VALVE & WELL RIM=141.60
CONIFEROUS TREE  DECIDUOUS TREE  * DECIDUOUS SHRUB	\$\text{RIM} = 141.87\$  \$\text{394} GATE VALVE & WELL}  RIM = 141.58	428 ROUND CATCH BASIN RIM=142.13 BOTTOM/STRUCTURE @ 137.13	-(462)SQUARE CATCH BASIN RIM=140.44 12" CLAY @ 133.74 TO #461 BOTTOM/STRUCTURE @ 134.34	614) GATE VALVE & WELL RIM=141.21
SECTION CORNER  SECTION CORNER  STRUCTURE NUMBER	395 PUBLIC LIGHTING MANHOLE RIM=141.21	(429) ELECTRIC MANHOLE RIM=142.11  (430) SQUARE CATCH BASIN	(463) SQUARE CATCH BASIN RIM=139.93 TOP/DEBRIS @ 137.08 12"CONC. @ 136.96 @ AZ. 138° BOTTOM/STRUCTURE @ 134.38	617)SQUARE CATCH BASIN RIM=139.38 12"CONC. @ 132.15 TO #438 15"CONC. @ 131.87 AT AZ. 240°
1) STRUCTURE NUMBER  10) SDA POINT No.  SPOT ELEVATION	396 PUBLIC LIGHTING MANHOLE RIM=141.36	RIM=141.25  43)SQUARE CATCH BASIN RIM=140.76	464 PHONE MANHOLE RIM=139.82	618 PUBLIC LIGHTING MANHOLE RIM=139.73
TC TOP OF CURB ELEVATION G GUTTER ELEVATION TP TOP OF PAVEMENT ELEVATION EM EDGE OF METAL ELEVATION	(39) ROUND CATCH BASIN RIM=141.63 TOP/DEBRIS @ 137.43	TOP/WATER @ 137.71 BOTTOM/STRUCTURE @ 136.51  432 ELECTRIC MANHOLE RIM=145.16	(465) GATE VALVE & WELL RIM=140.15 (466) GATE VALVE & WELL	619 GATE VALVE & WELL RIM=140.56  620 SQUARE CATCH BASIN
TW TOP OF WALK ELEVATION WALL TOP OF WALL ELEVATION GR GROUND ELEVATION U.G. UNDERGROUND F.O. FIBER OPTIC	398 ROUND CATCH BASIN RIM=140.95 6"CLAY @ 137.60 AT AZ. 200°  399 SEWER MANHOLE	433 ELECTRIC MANHOLE RIM=144.80	RIM=140.24  467 SQUARE CATCH BASIN RIM=140.15	RIM=140.20 12"CONC. @ 135.50 TO #629 BOTTOM/STRUCTURE @ 133.74
CONC. CONCRETE ASPH. ASPHALT L.S. LANDSCAPED F.F. FINISH FLOOR ELEVATION	RIM=142.53  400 SEWER MANHOLE RIM=141.28	434) SQUARE CATCH BASIN RIM=	TOP/DEBRIS @ 135.80  468 SEWER MANHOLE RIM=140.13	RIM=139.16  NO PIPES VISIBLE - FILLED WITH WATER BOTTOM/STRUCTURE @ 134.53
D.L. DOOR LEDGE ELEVATION  F.I. FOUND IRON  F.M. FOUND MONUMENT  F.P.K. FOUND P.K. NAIL  S.I. SET IRON W/SDA CAP	12"CONC. @ 138.25 AT AZ. 30° 51"PIPE @ 117.17 AT AZ. 70° 51"PIPE @ 117.17 AT AZ. 250°	(435)SQUARE CATCH BASIN RIM=140.24 NO PIPES VISIBLE AS OF 12-17-12 TOP/WATER @ 137.04	) (469) SQUARE CATCH BASIN ) RIM=140.42 ) 12" CONC. @ 133.46 TO #468	( RIM=139.14 ( TRAP PVC @ 137.04 AT AZ. 285° ( TOP/WATER @ 136.39 AS OF 12-17-12
S.P.K. SET P.K. NAIL S.P.K./TAG SET P.K. NAIL W/SDA TAG MAG SET MAGNETIC NAIL MAG/TAG SET MAGNETIC NAIL W/SDA TAG	RIM=141.21 TOP/DEBRIS @ 137.71 402 SQUARE CATCH BASIN RIM=140.60	(438) SQUARE CATCH BASIN RIM=139.44 12"CONC. @ 132.64 TO #617	12"METAL @ 134.57 TO #471 (BULKHEAD)  470 ELECTRIC MANHOLE RIM=140.91	(623) SQUARE CATCH BASIN (RIM=140.87 TRAP PVC @ 138.77 AT AZ. 250° TOP/WATER @ 138.27 AS OF 12-17-12 (624) MANHOLE
M MEASURED R RECORD C CALCULATED	TOP/DEBRIS @ 136.35  403 PUBLIC LIGHTING MANHOLE RIM=141.24	439 SQUARE CATCH BASIN RIM=141.54 NO PIPES VISIBLE-FILLED WITH WATER TOP/WATER @ 138.24 BOTTOM/STRUCTURE @ 136.27	47) SQUARE CATCH BASIN RIM=140.64 6"CPP @ 136.79 TO #469 12"CONC. @ 133.60 TO #472	RIM=140.78  625 PUBLIC LIGHTING MANHOLE
	(404) ROUND CATCH BASIN RIM=141.24 TOP/DEBRIS @ 138.14	6"PVC TO #15 (R)  440 SQUARE CATCH BASIN RIM=140.91 BOTTOM/ELBOW @ TO #352	12"CONC. @ 133.74 TO #477  472SQUARE CATCH BASIN RIM=140.57 15" PIPE TO NORTH (R)	RIM=140.63 626 MANHOLE RIM=140.58
UPDATED STRUCTURE INFORMATION	(405) ROUND CATCH BASIN RIM=141.03 BOTTOM/STRUCTURE @ 137.83  (406) ACCESS MANHOLE (E/W TUNNEL)	(44) ACCESS MANHOLE RIM=141.79	15" PIPE TO SOUTH (R)  473 PUBLIC LIGHTING MANHOLE RIM=140.38	627 SEWER MANHOLE RIM=140.89
	RIM=141.68 BOTTOM/STRUCTURE @ 117.83 TOP/STEP @ 136.03  407 PUBLIC LIGHTING MANHOLE	(442) GATE VALVE & WELL RIM=141.40  (443) SQUARE CATCH BASIN	474 PUBLIC LIGHTING MANHOLE RIM=140.45	628 SEWER MANHOLE RIM=140.72
	RIM=141.69  408 SQUARE CATCH BASIN RIM=140.93	RIM=140.72 12"CONC. @ 135.17 TO #382 12"CONC. @ 133.32 TO #417	475) PUBLIC LIGHTING MANHOLE RIM=140.17  476) SQUARE CATCH BASIN	629SQUARE CATCH BASIN RIM=140.30 12"CONC. @ 135.60 TO #620 6"CLAY @ 137.02 AT AZ. 330*
	BOTTOM/STRUCTURE @ 135.43  409 ROUND CATCH BASIN RIM=141.19 6"CLAY @ 138.24 TO #411	RIM=141.00  446 SQUARE CATCH BASIN RIM=144.56	RIM=140.54 12"CONC. @ 136.22 TO #477 47" SEWER MANHOLE RIM=140.69	634) SEWER MANHOLE RIM=142.43 635) GAS MANHOLE
	(410)SEWER MANHOLE RIM=141.84 TOP/WATER @ 138.04 BOTTOM/STRUCTURE @ 135.56	(44) ROUND CATCH BASIN RIM=140.78	RIM=140.69 6"CPP @ 137.26 AT AZ. 15" 12"CONC. @ 136.05 TO #476 TOP/12" @ 135.76 TO #471 (BULKHEAD)	RIM=141.16  —636 PUBLIC LIGHTING MANHOLE
	411)ROUND CATCH BASIN RIM=141.44 6"CLAY @ 138.19 TO #409 BOTTOM/STRUCTURE @ 137.19	12"CONC. @ 136.18 TO #476 TOP/12" @ 135.85 TO #471 (BULKHEAD) 6"CPP @ 137.35 AT AZ. 15*  448 SEWER MANHOLE RIM=142.55	RIM=140.14 TOP/DEBRIS @ 135.75  501) PUBLIC LIGHTING MANHOLE RIM=140.34	SHOWN PER RECORD LOCATION NOT VISIBLE IN FIELD  —636 PUBLIC LIGHTING MANHOLE SHOWN PER RECORD LOCATION NOT VISIBLE IN FIELD
	(412) SQUARE CATCH BASIN RIM=141.43 TOP/DEBRIS @ 136.48	RIM=142.55 15"CONC. @ 132.45 AT AZ. 255° 15"CONC. @ 132.94 AT AZ. 35° 12"CONC. @ 134.89 AT AZ. 345°	NIW - 140.54	NOT VISIBLE IN FIELD  (637) PUBLIC LIGHTING MANHOLE SHOWN PER RECORD LOCATION NOT VISIBLE IN FIELD

627) SEWER MANHOLE RIM=140.593 12"CONC.@135.56 TO AZ. 294*	(55) GATE VALVE & WELL "T/P=5.87, PIPE RUNS E, W"	(719) ELECTRIC MANHOLE RIM=139.136 TOP WIRE=135.74, WIRES RUN SW, NE, N	(744) SANITARY MANHOLE RIM=136.993 4 PIPES, DEEPER THAN 25 FT
21"BRICK @1130.17 TO #311 21"BRICK @ 130.24 TO #310	758 ELECTRIC MANHOLE RIM=141.222	720 PHONORTHEAST MANHOLE RIM=139.053	745 PHONORTHEAST MANHOLE RIM=136.459
700) PLD MANHOLE RIM=139.683 "NO VISIBLE WIRES, BOT = 129.65"	TOP CABLE=138.62, E, S, NW	T/W=135.74 AT AZ. 220°, 40°	T/W=133.26 RUNS E, S, W
701) SEWER MANHOLE RIM=139.689	(759) ELECTRIC MANHOLE  TOP CABLE=3.2, N, S ALONG ALLEY	(721) SQUARE CATCH BASIN RIM=138.633 NO PIPES VISIBLE BOTTOM=133.88	(746) GATE VALVE & WELL RIM=138.554 NO VISIBLE PIPES, FILLED WITH DEBRIS
NO PIPES VISIBLE, TOP OF DEBRIS=136.69  702ELECTRIC MANHOLE	RIM=141.505   12"BRICK@131.36 AT AZ. 55" TO BLDG	722 ELECTRIC MANHOLE (DTE) RIM=139.121 TOP OF WIRE =135.60 AT AZ. 75° & 255°	747) PLD MANHOLE RIM=138.779 T/W=134.78 AT AZ. 270°, 90°
RIM=140.065 TOP OF 4" CONDUIT =138.01 AT AZ. 20° TOP OF 3" CONDUIT =138.06 AT AZ. 175°	12"BRICK@131.71 AT AZ. 235° 12"BRICK@131.61 AT AZ. 120° TO BLDG 4"CLAY@132.61 AT AZ. 225°	723 SEWER MANHOLE RIM=139.78 NO PIPES VISIBLE, BOTTOM = 124.56	773)SQUARE CATCH BASIN 15"CLAY, T/P= 5.5, BLKHD AT AZ. 235
703)SEWER MANHOLE RIM=139.23 60"CONC.@125.52 AT AZ. 140° 21"CONC.@125.58AT AZ. 350°	(76) PLD MANHOLE RIM=140.177 T/W=130.78, WIRES RUN N, S	724 PLD MANHOLE RIM=139.404	CONC. CHAMBER @8.58 to #769
704 ELECTRIC MANHOLE RIM=139.04	(762) PHONORTHEAST MANHOLE 140.303 T/W=137.60 AT N, W	T/W=135.39 AT AZ. 70°, 250°  (725) SEWER MANHOLE  RIM=139.177	FULL OF DEBRIS  (801) SEWER MANHOLE
T/C =137.53 AT AZ. 255° & 10°  705) SQUARE CATCH BASIN	763 ELECTRIC MANHOLE RIM=141.412	- 15"CONC.@ 127.76 AT AZ. 60° 15"CONC.@127.76 AT AZ. 170° BOTH PIPES HALF FILLED W/ DEBRIS	UNKWN @ 34.11 NO MVMT AT AZ. 0°, 18
RIM=138.441 8"CLAY@132.34 AT AZ. 75° TOP OF DEBRIS = 132.21	COULD NOT OPEN  764 SQUARE CATCH BASIN	726 PLD MANHOLE RIM=139.618	802 SANITARY MANHOLE UNKWN @ 34.11. NO MVMT AZ. 60°, 240
706 GATE VALVE & WELL RIM=139.15 T/P=133.50	RIM=139.882 12"CONC.@134.38 TO #765 12"CONC. @134.58 AT AZ. 155° TO FWY BULKHEADED	COULD NOT OPEN  (727) SQUARE CATCH BASIN RIM=139.336	803) PLD MANHOLE RIM=140.311 T/W=136.81 WIRES RUN E, S
707 GATE VALVE & WELL RIM=139.009 T/P=132.85	(765) SQUARE CATCH BASIN RIM=139.789 12"CONC. @133.54 TO #766	12"CONC. @ 133.57 AT AZ. 200° 728 SQUARE CATCH BASIN RIM=139.323	804) SEWER MANHOLE RIM=140.174 10"CONC.@132.27 AT AZ.240° ALONG FW
708) ELECTRIC MH (DTE) RIM=139.042 COULD NOT OPEN	12" CONC. @ 133.99 10 # 764 15" CLAY T/P = 134.49 AT BULKHEADED	12"CONC. @ 137.24 AT AZ. 340°	42"BRICK@125.97 TO # 753 BRICK PIPES AT AZ. 100° OVER 25 FT DEEP
709 GATE VALVE & WELL RIM=138.701 T/P=132.90 RINS W NORTHWEST (OFFSE	(766) SQUARE CATCH BASIN RIM=140.523 12" CONC. @133.82 TO # 765	RIM=139.426 TOP OF WIRE =132.13 RUNS N, S  (730) SQUARE CATCH BASIN	805)SQUARE CATCH BASIN RIM=139.38 12"CONC. @ 132.23 TO SOUTHEAST TOP/WATER @ 132.88 AS OF 12-17-12
RIM=138.701 T/P=132.90, RUNS W, NORTHWEST (OFFSET)	767) PLD MANHOLE RIM=139.99 T/W=137.69, WIRES RUN N, E, W	TOP OF DEBRIS = 0.5	806)SQUARE CATCH BASIN
12"PVC@2.27 AT AZ. 340°	(768) GATE VALVE & WELL	(731)SEWER MANHOLE	RIM=139.38   12"CONC. @ 132.64 TO NORTHWEST   TOP/WATER @ 132.94 AS OF 12-17-12
711)GATE VALVE & WELL RIM=139.089	RIM=140.05 T/P=132.95, AT AZ. 80° & 260°	12"CONC.@5.35 12"CLAY@9.45	101 / WATER & 102.34 A3 OF 12-17-12
T/P=133.56 AT AZ. 330°, 150° TOP OF DEBRIS =132.48 712) PLD MANHOLE	769 SEWER MANHOLE RIM=140.622 12"CONC. @133.67 AT AZ. 35° TO BLDG	732 PLD MANHOLE RIM=139.518 T/W=135.02 AT AZ. 70°, 250°	
RIM=139.221 T/W=134.11AT AZ. 70°, 160°	12"CONC.@132.42 18"BRK CHNL @ 130.04 AT AZ. 60°, 240°	733 ELECTRIC MANHOLE  RIM=139.427  TOP OF WRF =137.33 AT 70° 160°	
750 PHONORTHEAST MANHOLE 2 CONDUITS AT N WALL T/W=3.3	(77) ELECTRIC MANHOLE RIM=140.12 TOP CABLE=136.62, AT AZ. 210°, 300°	TOP OF WIRE =137.33 AT 70°, 160°	
749CATCH BASIN	771 GATE VALVE & WELL	RIM=139.056   12"CLAY@132.31 AT AZ. 270° BLKHD   10"CLAY@132.53 AT AZ. 90°	
RIM=139.1 12"CONC. @132.88 TO #756 15"CLAY BLKHD-TP=133.75 AT AZ.70°	RIM=140.195 T/P=133.50, PIPE RUNS E&W	736 SEWER MANHOLE RIM=139.796	
751) ELECTRIC VAULT RIM=140.092 T/W=134.59 AT AZ. 70°, 250°	RIM=140.056 T/P=132.76, PIPE RUNS AT AZ. 75°, 255°	COULD NOT OPEN  (73) PLD MANHOLE  RIM=141.071	
752) PHONORTHEAST MANHOLE RIM=139.665	(713) ELECTRIC MANHOLE RIM=139.459 TOP WIRE=137.35 AT AZ. 230°, 60°	TOP OF DEBRIS = 140.37  738 SANITARY MANHOLE	
T/W=136.42 AT N, S, & E  753) SEWER MANHOLE RIM=139.686	714 GATE VALVE & WELL RIM=139.551 NO PIPES VISIBLE, TOP DEBRIS = 134.13	RIM=136.981 DEEPER THAN 25'	
6"CLAY @129.69 TO AZ. 308° to Bldg 42"BRICK @ 126.14 to #804 48"BRICK@125.69 TO N ALONG RIOPELLE 18"CLAY IN 48"BRICK@125.54 TO AZ. 160°	(715) PLD MANHOLE RIM=139.214 T/W=136.11 AT N, S, W	739 SEWER MANHOLE RIM=137.136 15"@134.49 AT AZ. 0°	
18"CONC.@126.39 TO AZ.255"	716 PLD MANHOLE RIM=139.359	740 GATE VALVE & WELL RIM=136.775 T/P=130.93 AT AZ. 75°, 255°	
RIM=139.516 T/W=133.62, WIRES RUN N, S, E, W	T/W=136.16 AT N, SW (717) GATE VALVE & WELL	741) SQUARE CATCH BASIN RIM=139.096	
755) GATE VALVE & WELL RIM=139.753 T/P=134.48, N, S, PAR TO RIOPELLE	RIM=139.325 T/P=135.33, RUNS SW, SOUTHEAST (OFFS	14" DROP CONC.@136.43 AT AZ. 340° (42) PLD MANHOLE	
756) CATCH BASIN RIM=139.168 12"CONC.@133.44 TO # 749	718 ELECTRIC MANHOLE RIM=139.29 TOP WIRE=135.69, WIRES RUN SW, NE	RIM=136.464 T/W=132.11 AT AZ. 260°, 345°	
		RIM=136.949 T/W=134.35 RUNS E, S, W	

Spalding DeDecker Associates, Inc. 4 PIPES, DEEPER THAN 25 FT 745 PHONORTHEAST MANHOLE NO VISIBLE PIPES, FILLED WITH DEBRIS T/W=134.78 AT AZ. 270°, 90° **Engineering Consultants** 15"CLAY, T/P= 5.5, BLKHD AT AZ. 235° CONC. CHAMBER @8.58 to #769 Infrastructure • Land Development • Surveying 905 South Blvd. East Rochester Hills, MI 48307 Phone: (248) 844-5400 Fax: (248) 844-5404

1435 Randolph, Suite 404 Detroit, MI 48226 Phone: (313) 967-4700

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PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

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**DETROIT RECREATION DEPARTMENT -EASTERN MARKET** DETROIT, MI

STRUCTURE TABLE

PRIVATE CLAIM TOWN SOUTH RANGE EAST CITY OF DETROIT WAYNE COUNTY NO. DATE REVISION 10-09-2012 | REVISED PER CLIENT REVIEW 2 | 10-24-2012 | TRANSLATED COORDINATES PER CLIENT 3 | 12-21-2012 | ADD ELEVATIONS AND STRUCTURE DATA 09-14-12 J.LOVELL M.DeDECKER 09-14-12 FIELD LEADER R.KARYO PROJECT SURVEYOR M.DeDECKER DEPARTMENT MANAGER PROJECT MANAGER

G.PLATZ

DRAWING NO.

SM08043TP

VERIFY SCALES

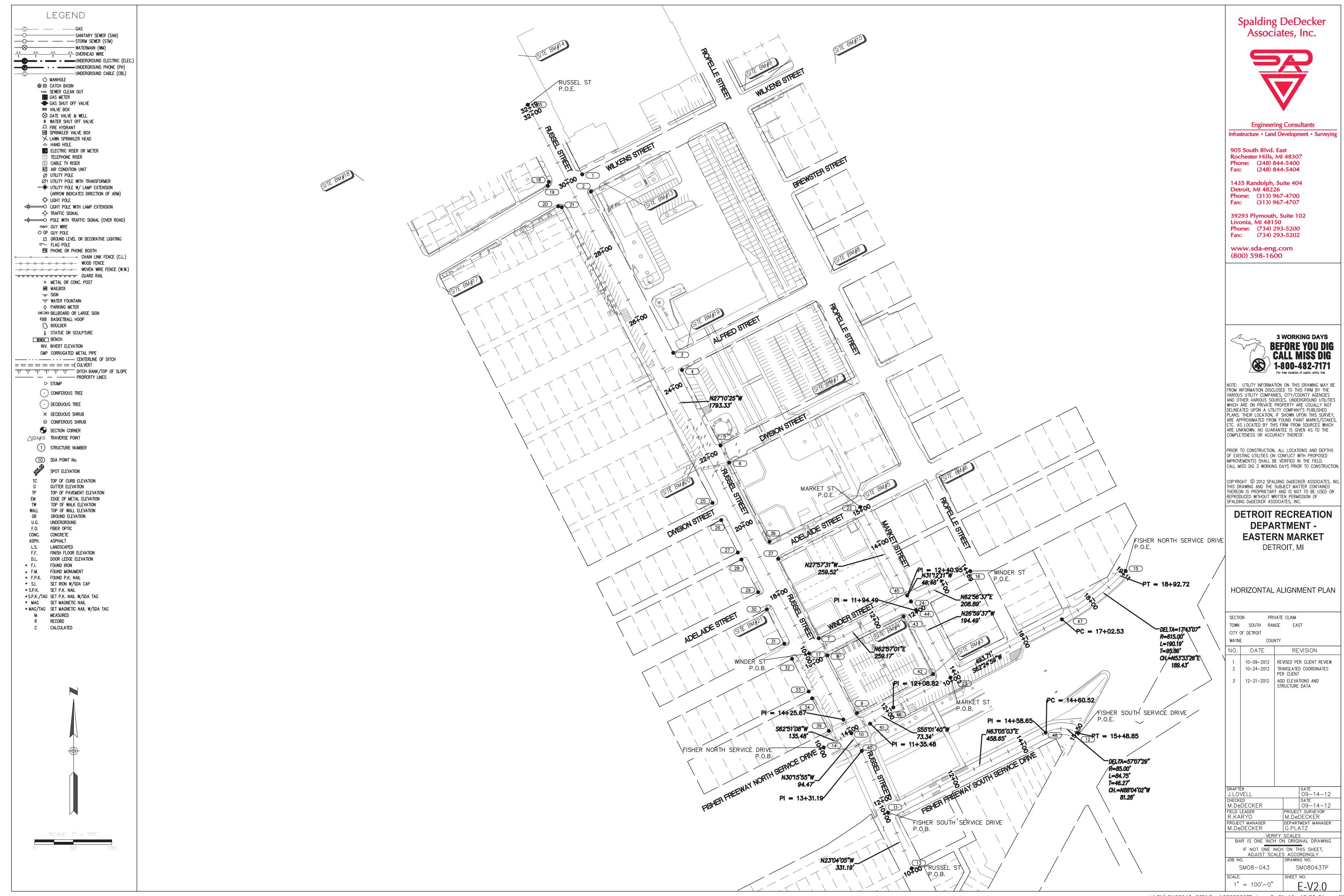
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET,

ADJUST SCALES ACCORDINGLY

M.DeDECKER

SM08-043

1" = 5' - 0"



#### LEGEND \_\_\_\_\_\_\_ GAS SANITARY SEWER (SAN) √ OVERHEAD WIRE • • UNDERGROUND ELECTRIC (ELEC.) - UNDERGROUND PHONE (PH) - UNDERGROUND CABLE (CBL) MANHOLE ■ ■ CATCH BASIN OGA SEWER CLEAN OUT GAS METER GAS SHUT OFF VALVE ✓ VALVE BOX ⊗ GATE VALVE & WELL φ water shut off valve A FIRE HYDRANT ☑ SPRINKLER VALVE BOX ✓ LAWN SPRINKLER HEAD △ HAND HOLE ELECTRIC RISER OR METER TELEPHONE RISER C CABLE TV RISER AC AIR CONDITION UNIT Ø UTILITY POLE ØT UTILITY POLE WITH TRANSFORMER → ₩ UTILITY POLE W/ LAMP EXTENSION (ARROW INDICATES DIRECTION OF ARM) -\$≻ light pole ⇒ LIGHT POLE WITH LAMP EXTENSION -\$\rightarrow\$ TRAFFIC SIGNAL POLE WITH TRAFFIC SIGNAL (OVER ROAD) OGUY GUY WIRE O GP GUY POLE GROUND LEVEL OR DECORATIVE LIGHTING $\sim$ FLAG POLE PB PHONE OR PHONE BOOTH $\times$ $\times$ $\times$ Chain link fence (c.l.) WOOD FENCE -//- // WOVEN WIRE FENCE (W.W.) GUARD RAIL METAL OR CONC. POST MB MAILBOX -o- SIGN ▼ WATER FOUNTAIN ♦ PARKING METER BILLBOARD OR LARGE SIGN ∮BB BASKETBALL HOOP BOULDER BENCH BENCH INV. INVERT ELEVATION CMP CORRUGATED METAL PIPE ---- CENTERLINE OF DITCH = = = = = = = = CULVERT ——— — PROPERTY LINES STUMP ( CONIFEROUS TREE E DECIDUOUS TREE \* DECIDUOUS SHRUB ☆ CONIFEROUS SHRUB SECTION CORNER \_\SDA#10 TRAVERSE POINT (1) STRUCTURE NUMBER 10 SDA POINT No. SPOT ELEVATION TOP OF CURB ELEVATION GUTTER ELEVATION TOP OF PAVEMENT ELEVATION EDGE OF METAL ELEVATION TOP OF WALK ELEVATION TOP OF WALL ELEVATION GR GROUND ELEVATION U.G. UNDERGROUND F.0. FIBER OPTIC CONC. CONCRETE ASPH. ASPHALT L.S. LANDSCAPED FINISH FLOOR ELEVATION DOOR LEDGE ELEVATION F.I. FOUND IRON • F.M. FOUND MONUMENT • F.P.K. FOUND P.K. NAIL • S.I. SET IRON W/SDA CAP • S.P.K. SET P.K. NAIL • S.P.K./TAG SET P.K. NAIL W/SDA TAG MAG SET MAGNETIC NAIL • MAG/TAG SET MAGNETIC NAIL W/SDA TAG M MEASURED RECORD C CALCULATED

POINT	NORTHING	<u>IMENT POINT LIS</u>  EASTING
NUMBER	NORTHING	12348.70
1	12360.66	12371.41
2	12316.12	12584.73
3	11897.71	12607.47
4	11853.18	12707.41
5	11657.20	12730.13
6	11612.65	12962.42
7	11157.11	12985.13
8	11112.56	13061.45
9	10962.90	13047.06
10	10910.49	
11	10704.50	13142.04
12	10909.69	13638.04
13	10559.78	13203.67
14	10873.62	12975.16
15	11331.67	13758.71
16	11331.12	13355.60
17	11117.69	12937.67
18	12341.28	12262.04
19	12331.32	12258.97
20	12277.82	12286.31
		12295.60
21	12275.47	13070.15
22	11497.39	13304.17
23	11055.12	13201.40
24	11252.36	12686.83
25	11508.23	12709.47
26	11463.65	12752.66
27	11379.04	12761.76
28	11361.22	12804.95
29	11276.61	12827.62
30	11232.05	12873.09
31	11142.98	12893.08
32	11103.58	12936.27
33	11018.96	12945.37
34	11001.15	12207.29
35	12541.48	12834.61
36	11407.75	12857.32
37	11363.21	
38	10946.09	13026.29
39	10916.58	12988.66
40	10864.49	13073.90
41	10935.44	13095.71
42	11064.18	13259.13
43	11213.76	13182.65
44	11228.42	13215.89
45	11268.16	13191.82
46	10977.47	13155.81
47	11206.08	13593.40
77/	11200.00	1

10912.13

#### CONTROL POINT LIST

TRAVERSE POINTE #	NORTHING	EASTING	LEVEL ELEVATION
36	11351.83	12859.74	141.01
50	11045.52	13229.47	140.35
51	11138.49	13493.89	140.09
52	11332.29	13733.81	140.75
53	10859.55	13039.72	141.84
55	10899.97	13585.04	138.98
56	11094.37	12991.27	141.61
57	11665.87	12701.98	141.45
58	11848.76	12603.34	141.25
59	12124.82	12492.81	142.60
60	12286.15	12381.63	142.10
61	11782.20	13071.88	141.75
62	11458.03	13042.74	141.70

PER THE FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR THE CITY OF DETROIT, WAYNE COUNTY, MICHIGAN, COMMUNITY PANEL No. 26163C0285E, PANEL 285 OF 575, DATED FEBRUARY 2, 2012, THE PROJECT AREA IS LOCATED OUTSIDE OF THE DESIGNATED

TRAVERSE POINTE #	NORTHING	EASTING	LEVEL ELEVATION
36	11351.83	12859.74	141.01
50	11045.52	13229.47	140.35
51	11138.49	13493.89	140.09
52	11332.29	13733.81	140.75
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55	10899.97	13585.04	138.98
56	11094.37	12991.27	141.61
57	11665.87	12701.98	141.45
58	11848.76	12603.34	141.25
59	12124.82	12492.81	142.60
60	12286.15	12381.63	142.10
61	11782.20	13071.88	141.75
62	11458.03	13042.74	141.70

FLOOD PLAIN NOTE

FLOOD ZONE.

#### BENCHMARK DESCRIPTIONS

MASTER BENCHMARK #39-353 TOP OF DISK AT THE NORTH EAST CORNER OF ANTIETAM AND ST. AUBIN. #39-353A TOP OF DISK AT THE NORTHWEST CORNER OF ANTIETUM AND CHENE.

SOURCE: CITY OF DETROIT

DATUM: CITY OF DETROIT LOCAL DATUM

#### SITE BENCHMARKS

SITE BM# 3 SCRIBED "X" ON SOUTHEAST CORNER OF LIGHT BASE ON NORTHWEST CORNER OF MARKET AND FISHER.

ELEVATION= 142.43

SITE BM# 4 SCRIBED "X" ON EAST SIDE OF LIGHT POLE BASE ON SOUTHWEST CORNER OF ELEVATION= 143.84

SITE BM# 5 SCRIBED "X" ON SOUTHEAST CORNER OF TRANSFORMER PAD AT NORTHWEST CORNER OF MARKET AND ADELAIDE. ELEVATION= 142.58

SITE BM# 6 SET MAG NAIL IN NORTH SIDE OF UTILITY POLE ON SOUTHEAST CORNER OF ADELAIDE AND RIOPELLE.

ELEVATION= 141.36

SET MAG NAIL IN SOUTHEAST SIDE OF UTILITY POLE ON NORTHWEST CORNER OF DIVISION AND RIOPELLE. ELEVATION= 142.68

SET MAG NAIL IN SOUTH SIDE OF UTILITY POLE ON NORTHEAST CORNER OF RIOPELLE AND ALFRED. ELEVATION= 142.17

SCRIBED "X" ON TOP OF NORTHEAST CORNER OF CONCRETE WALL AT NORTHEAST CORNER OF RIOPELLE AND WILKINS.

ELEVATION= 143.56

SITE BM# 10 SET MAG NAIL IN NORTH SIDE OF UTILITY POLE SOUTH OF VACANT GRAVEL LOT. SECOND POLE SOUTH OF CORNER OF ORLEANS AND WILKINS. ELEVATION= 144.21

SITE BM# 11 ARROW ON HYDRANT LOCATED ON THE NORTHEAST CORNER OF ERSKINE AND

ELEVATION= 146.41

CORNER OF ORLEANS AND ERSKINE. SOUTH SIDE OF ERSKINE. ELEVATION= 147.07

SITE BM# 12 SET MAG NAIL IN SOUTH SIDE OF UTILITY POLE. FIRST POLE 50' +/- WEST OF

SITE BM# 13 RR SPIKE IN NORTH SIDE OF UTILITY POLE LOCATED 50' +/- OF SOUTHEAST CORNER OF WILKENS AND RUSSELL. ELEVATION= 143.18

SITE BM# 14 SET MAG NAIL IN EAST SIDE OF UTILITY POLE ON EAST SIDE OF RUSSELL 50'

+/- S. OF SOUTHEAST CORNER OF RUSSELL AND ERSKINE. ELEVATION= 143.89

SITE BM # 15 ARROW ON HYDRANT IN FRONT OF #3445 RUSSSEL 100' +/- NORTH OF WIGLEYS MEAT STORE.

ELEVATION= 147.39

SITE BM# 16 ARROW ON HYDRANT 70'+/- OF SOUTHWEST CORNER OF MACK AND RUSSELL, ELEVATION= 147.76

SITE BM # 17 ARROW ON HYDRANT AT THE SOUTHEAST CORNER OF WILKENS AND RIVARD.

ELEVATION= 144.32

SITE BM# 19 SET MAG NAIL IN SOUTH SIDE OF UTILITY POLE LOCATED AT THE NORTHEAST CORNEROF ALFRED AND RUSSELL.

ELEVATION= 141.85

W. SIDEO OF RUSSELL.

SITE BM# 20 MAG NAIL SET IN WEST SIDE OF UTILITY POLE ON NORTHWEST CORNER OF DIVISION AND RUSSELL.

ELEVATION=141.32

SITE BM# 21 MAG NAIL SET IN EAST SIDE OF UTILITY POLE AT SOUTHWEST CORNER OF RUSSELL AND ADELAIDE. ELEVATION= 141.97

SITE BM# 22 SET MAG NAIL IN EAST SIDE OF UTILITY POLE ON NORTHWEST CORNER OF RUSSELL AND FISHER. ELEVATION= 142.11

#### SURVEYOR'S COMMENTS

- 1. SPALDING DeDECKER ASSOCIATES, INC. (SDA) HAS PERFORMED THIS TOPOGRAPHICAL SURVEY TO BE USED FOR THE DESIGN OF STREETSCAPE. MAPPING LIMITS INCLUDE THE RIGHT OF WAY. RIGHT OF WAY LINES ARE GRAPHICALLY SHOWN ACCORDING TO FIELD-MEASUREMENTS AND RECORD INFORMATION INCLUDING CITY OF DETROIT CARTOGRAPHIC MAPS. INTERIOR LOT LINES ARE SHOWN IN AN APPROXIMATE LOCATION. UNDERGROUND UTILITIES ARE SHOWN BASED UPON A COMBINATION OF RECORD INFORMATION AND ACTUAL FIELD-MEASUREMENTS, INCLUDING OBTAINING PIPE INVERT ELEVATIONS FOR CATCH BASINS. VISIBLE SITE FEATURES ARE SHOWN. FOR ADJACENT DOORS, FINISH FLOOR OR DOOR LEDGE ELEVATIONS ARE SHOWN APPROXIMATELY IN THE CENTER OF THE OPENING.
- 2. MANY OF THE CATCH BASINS ARE DESIGNED WITH A TRAP CONNECTION AND ARE THEREFORE FULL OF WATER. IN MANY CASES THE CONNECTING PIPES ARE NOT VISIBLE DUE TO THE STANDING WATER AND/OR DEBRIS IN THE STRUCTURE. WE HAVE SHOWN CONNECTIONS WHERE THEY CAN BE VERIFIED BY RECORD INFORMATION OR FIELD-OBSERVATIONS. THE RECORD MAPS DO NOT SHOW ALL OF THE CATCH BASINS AND WE ARE THEREFORE UNCERTAIN OF THE OUTLETS IN MANY CASES.
- 3. AT THE TIME OF OUR INITIAL RELEASE OF THESE DRAWINGS, WE HAVE NOT YET RECEIVED UTILITY RECORDS FROM MICHCON AND DETROIT PUBLIC LIGHTING DEPARTMENT. WE HAD RECORDS FROM THESE PROVIDERS FOR THE SOUTHERLY PORTION OF THE AREA FROM AN EARLIER PROJECT.
- 4. THE MAJORITY OF THIS OVERALL AREA WAS INITIALLY SURVEYED IN 2008. SUBSEQUENT TO THE INITIAL SURVEY, IMPROVEMENTS HAVE BEEN MADE INCLUDING RECONSTRUCTING SEVERAL SHEDS, INCLUDING ADJACENT PARKING AREAS AND SIDEWALKS. IMPROVEMENTS WERE ALSO PERFORMED AT THE INTERSECTIONS INCLUDING UPDATING SIDEWALK RAMPS TO CONFORM TO ADA STANDARDS. OUR 2008 SURVEY HAS BEEN UPDATED IN SEPTEMBER, 2012 TO REFLECT THESE CHANGES, WITHIN THE LIMITS OF THE NEW SURVEY ONLY.

ELEVATION=138.24

ELEVATION=139.66

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Associates, Inc.

**Engineering Consultants** 

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PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

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DETROIT RECREATION **DEPARTMENT -EASTERN MARKET** DETROIT, MI

GENERAL SURVEY NOTES

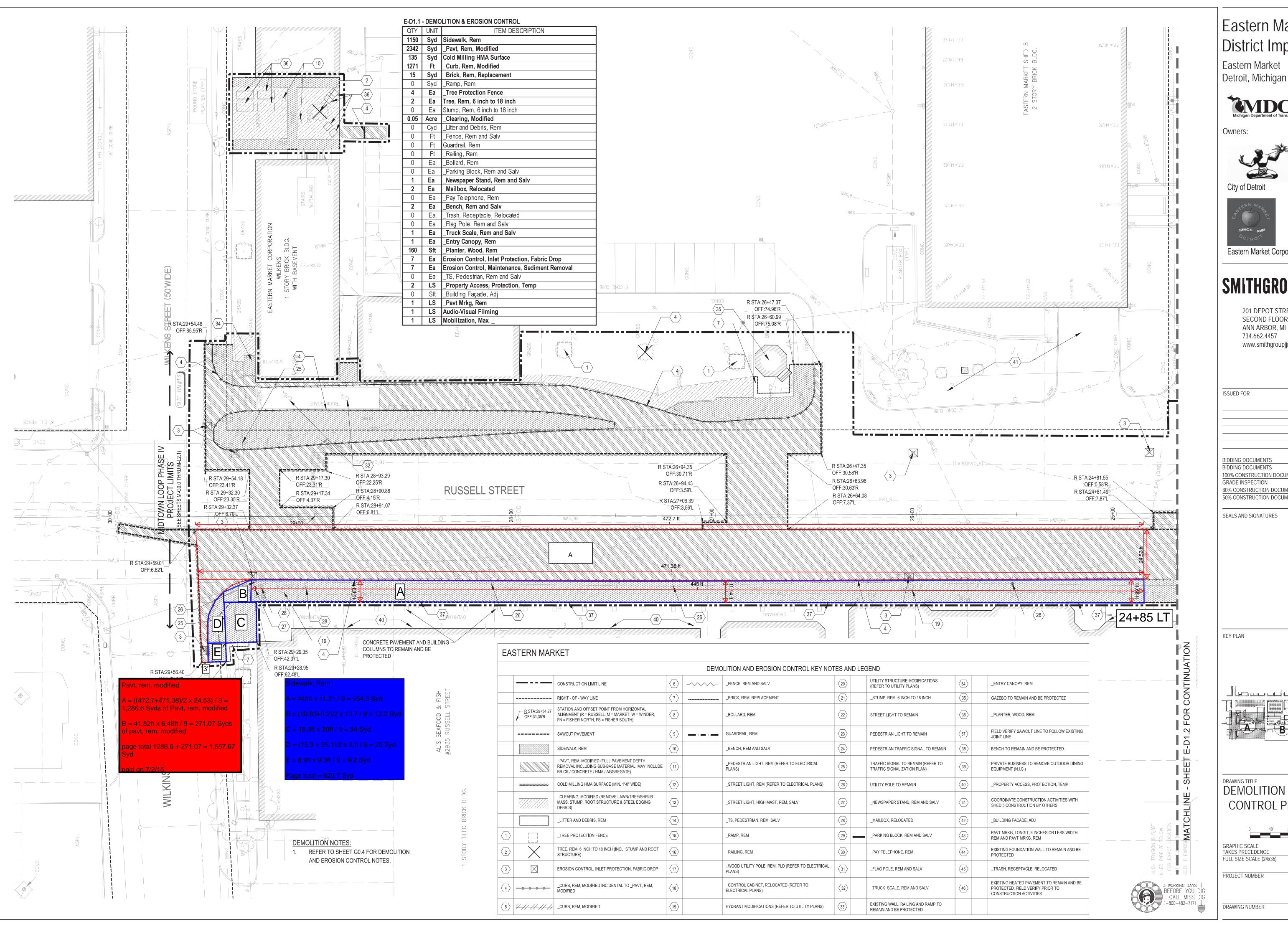
PRIVATE CLAIM TOWN SOUTH RANGE EAST CITY OF DETROIT WAYNE COUNTY DATE REVISION 10-09-2012 | REVISED PER CLIENT REVIEW 10-24-2012 TRANSLATED COORDINATES PER CLIENT 3 | 12-21-2012 | ADD ELEVATIONS AND STRUCTURE DATA

09-14-12 J.LOVELL 09-14-12 M.DeDECKER PROJECT SURVEYOR FIELD LEADER R.KARYO M.DeDECKER DEPARTMENT MANAGER PROJECT MANAGER M.DeDECKER G.PLATZ

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET. ADJUST SCALES ACCORDINGLY DRAWING NO. SM08043TP SM08-043

NΑ J:\SM\SM08043\_C3D\Dwg\DE08002TP.dwg 8-21-12 10:08:04 am EST









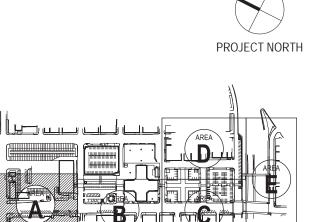
Eastern Market Corporation

## **SMITHGROUP JJR**

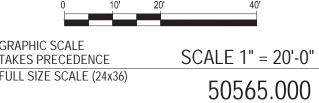
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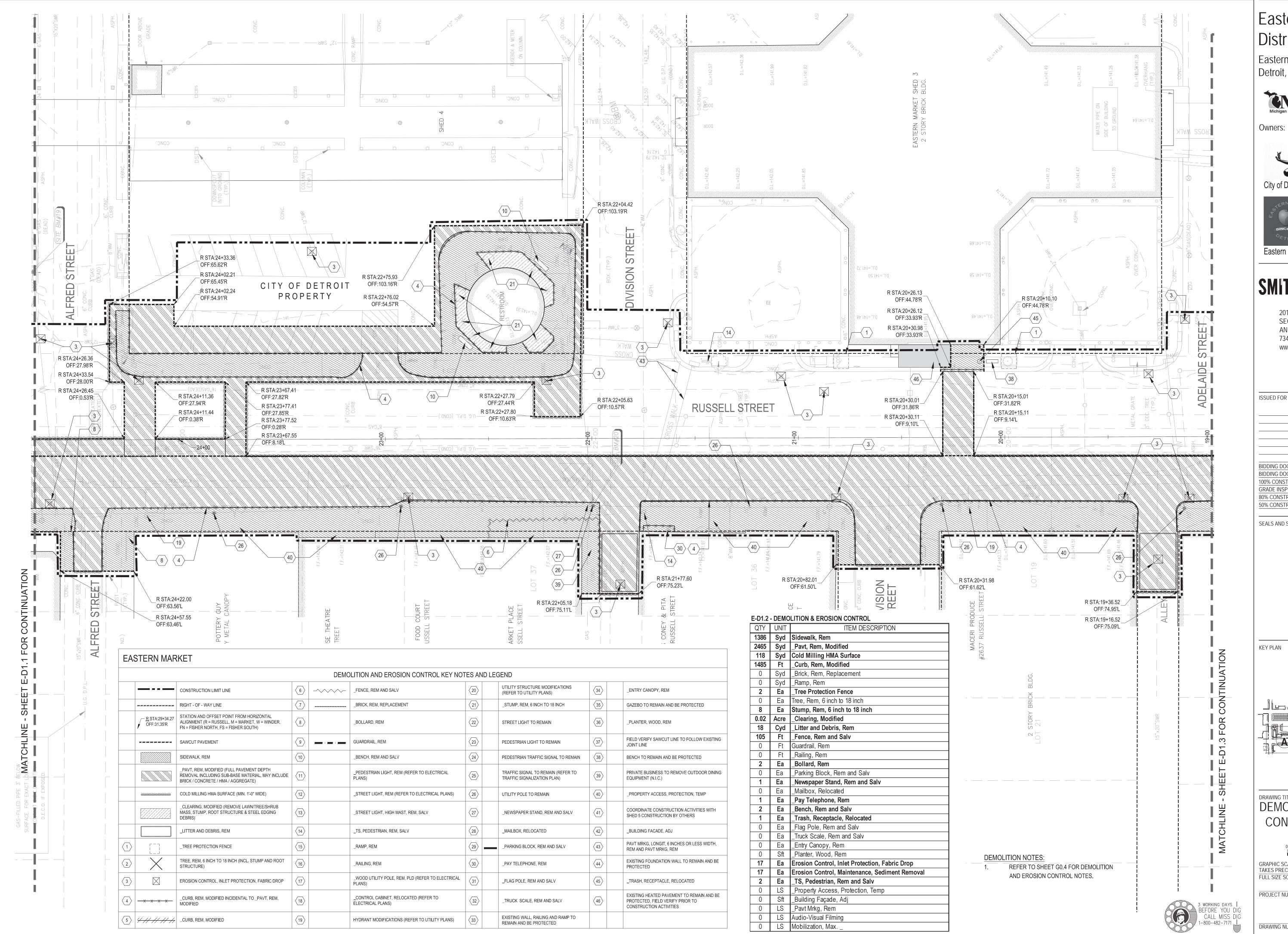
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GRADE INSPECTION	2	JAN.30.2013
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50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

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**DEMOLITION AND EROSION** CONTROL PLAN - AREA A





Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

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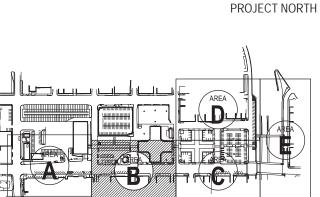
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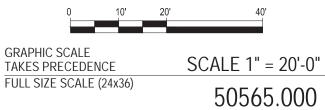
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SEALS AND SIGNATURES

KEY PLAN

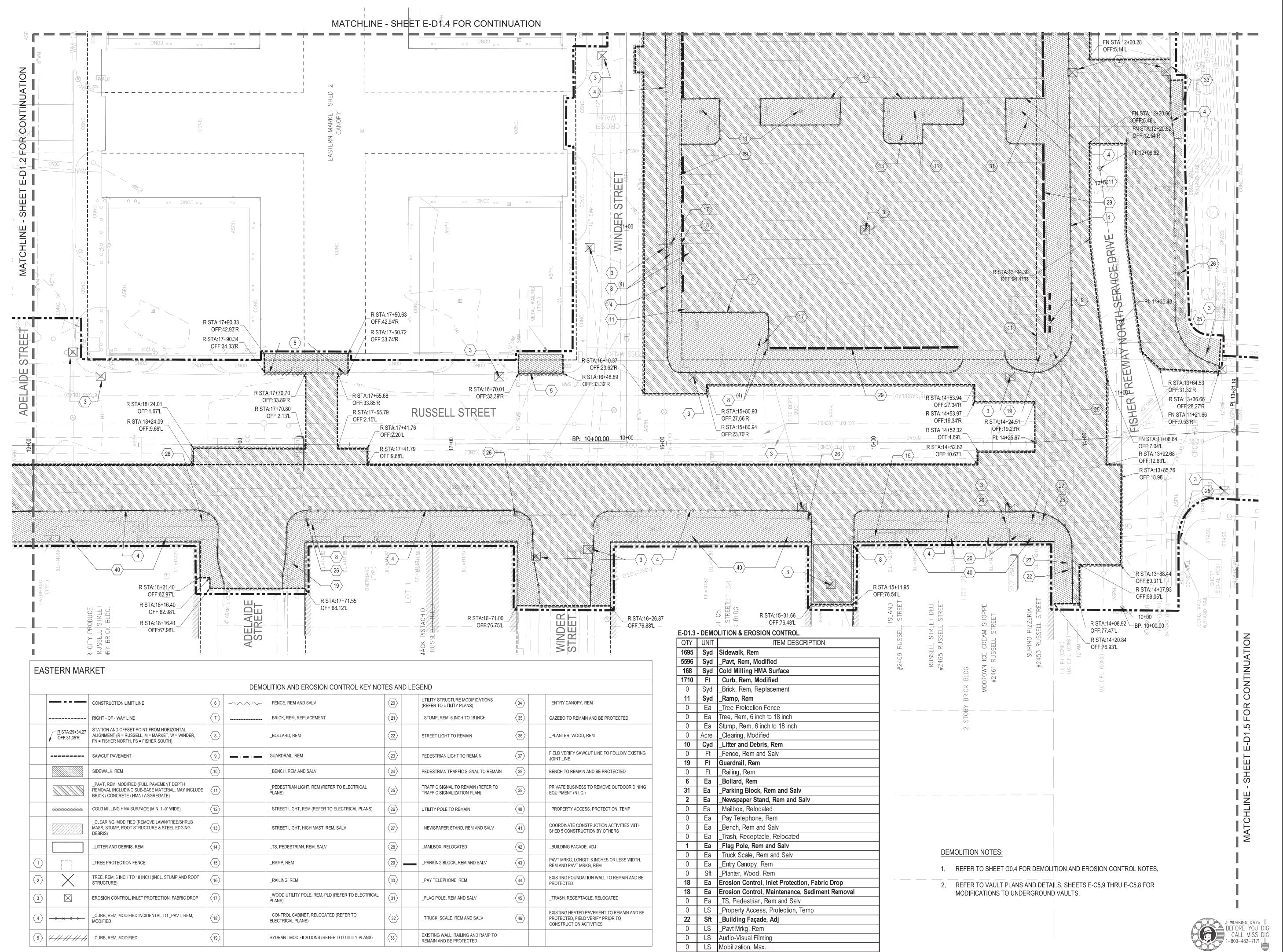


**DEMOLITION AND EROSION** CONTROL PLAN - AREA B



PROJECT NUMBER

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:







**Eastern Market Corporation** 

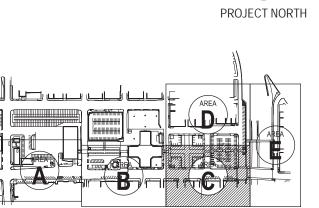
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SEALS AND SIGNATURES

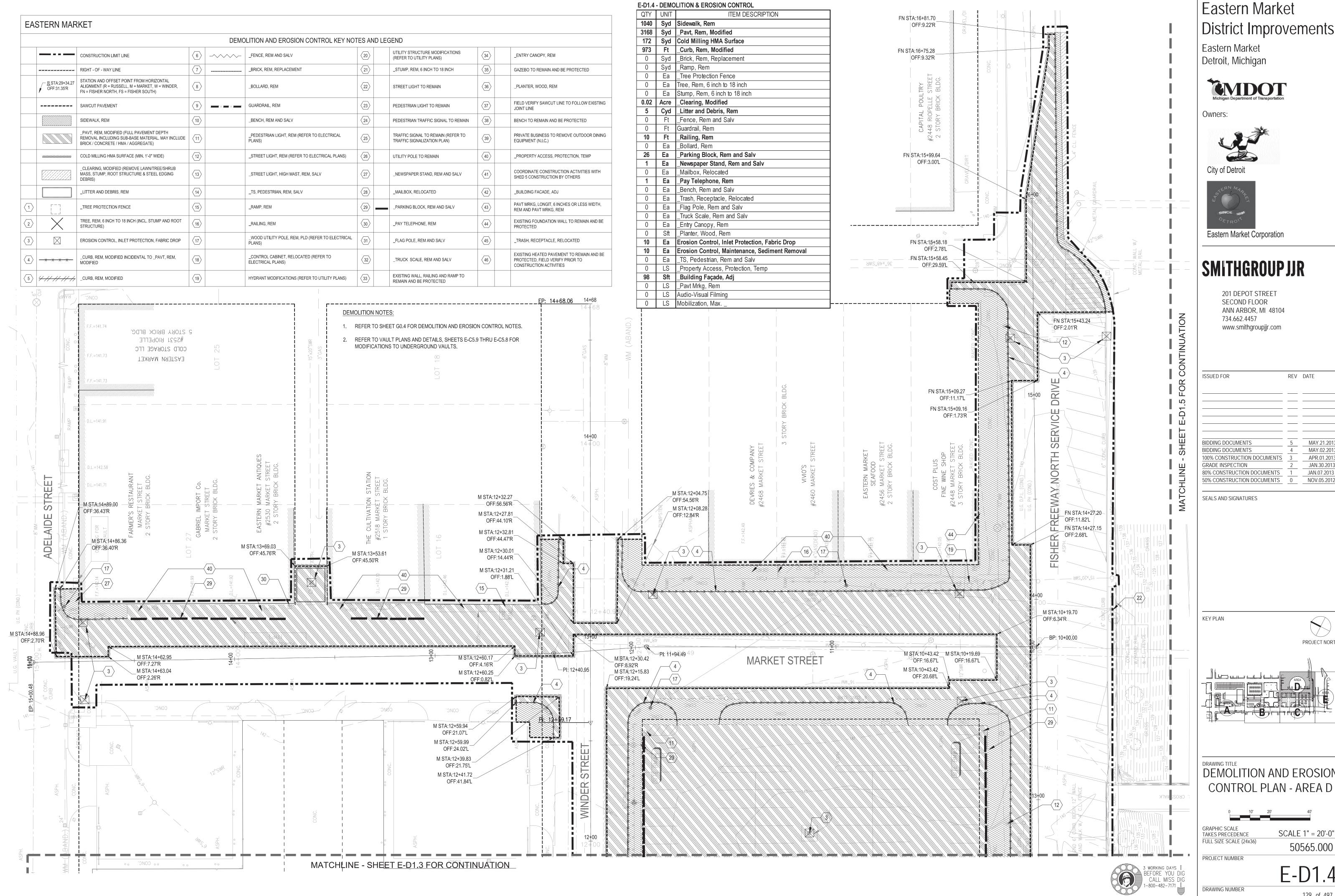
**KEY PLAN** 



**DEMOLITION AND EROSION** CONTROL PLAN - AREA C

GRAPHIC SCALE SCALE 1" = 20'-0" TAKES PRECEDENCE FULL SIZE SCALE (24x36) 50565.000

PROJECT NUMBER DRAWING NUMBER





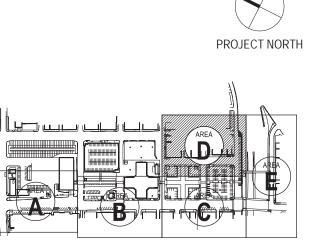




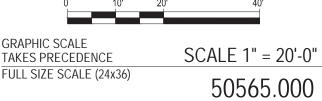
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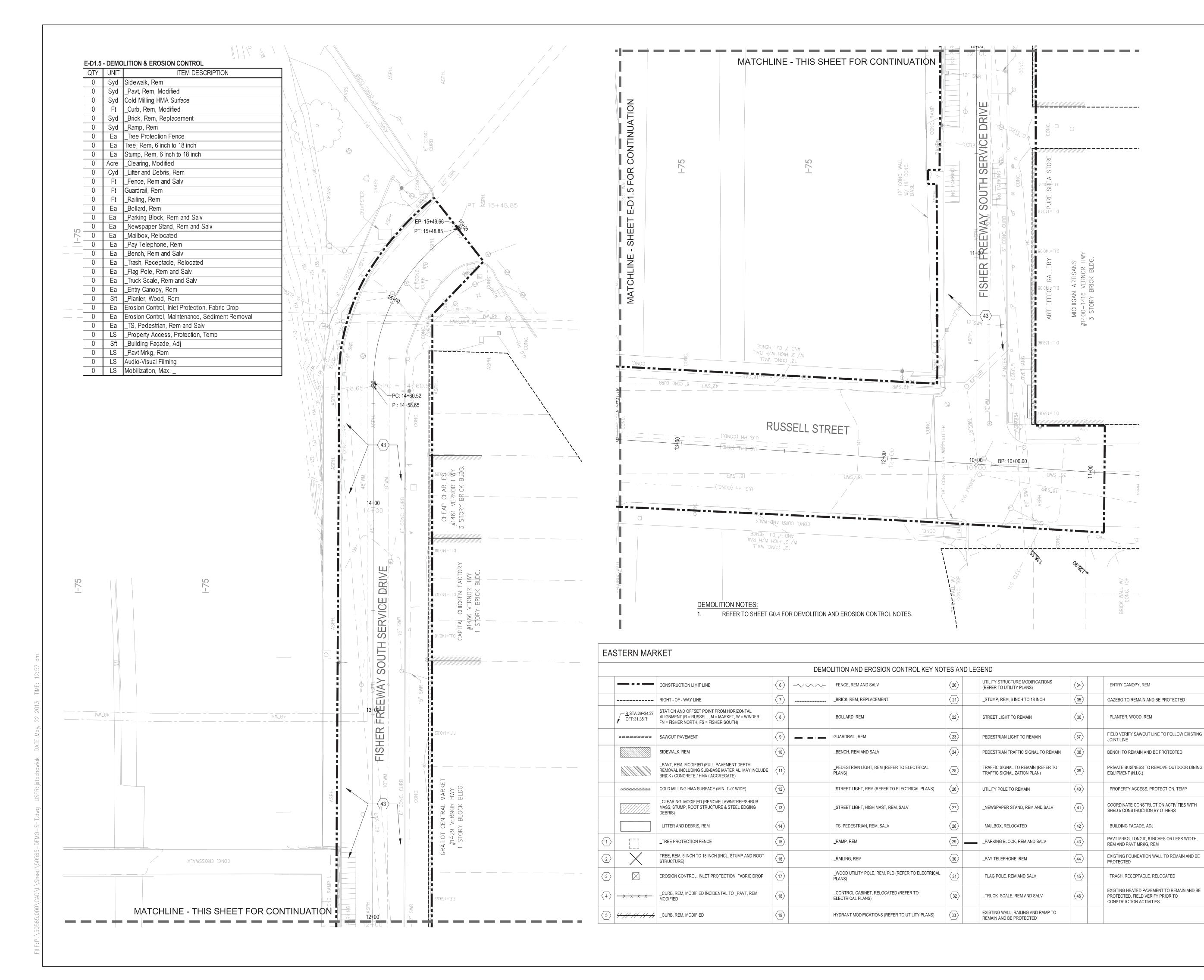
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**DEMOLITION AND EROSION** CONTROL PLAN - AREA D



DRAWING NUMBER





Eastern Market
Detroit, Michigan



Owners:



City of Detroit



Eastern Market Corporation

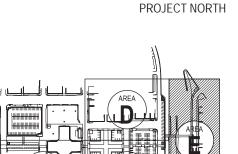
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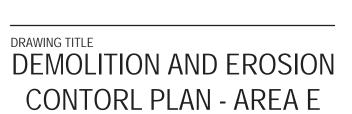
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SEALS AND SIGNATURES

KEY PLAN



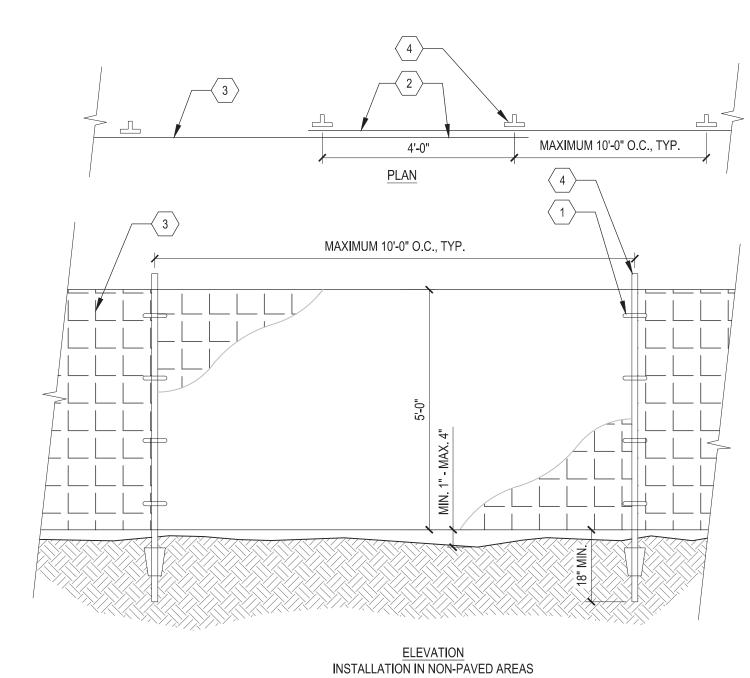


GRAPHIC SCALE TAKES PRECEDENCE SCALE (24x36) SCALE 1'' = 20'-0'' 50565.000

PROJECT NUMBER

E-D

DRAWING NUMBER



1 HEAVY DUTY PVC TIES EQ. SPACED MIN. FOUR PER POST

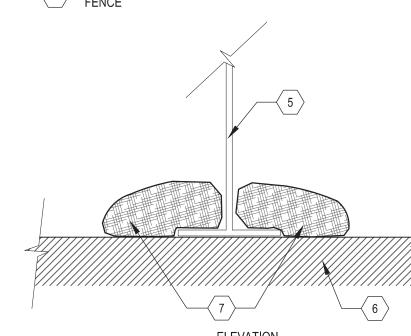
2 OVERLAP MIN. ONE POST LENGTH AT ENDS OF ROLL AND AT CORNERS

HDPE HEAVY DUTY CONSTRUCTION FENCE (SNOW FENCE) UV STABILIZED, 3200 PSI TENSILE YIELD, 370 LBS. PER FOOT TENSILE STRENGTH, 50-60% MESH OPENING.

4 BLACK STEEL "T" POSTS FOR DIRECT BURY

5 BLACK STEEL "T" POSTS WITH LEGS 6 EXISTING PAVEMENT

SAND BAGS PLACED ON POST LEGS ON BOTH SIDES OF FENCE

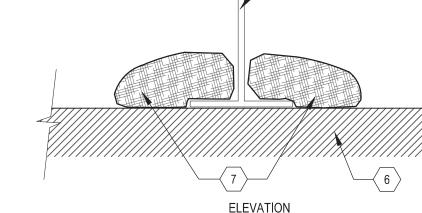


1. SNOW FENCE COLOR SHALL BE BRIGHT ORANGE.

2. MAINTAIN FENCE IN GOOD WORKING ORDER DURING CONSTRUCTION. INSPECT AT A MINIMUM ONCE A WEEK AND REPAIR/REPLACE ANY DAMAGED SECTIONS.

3. ENSURE FENCE IS SECURELY ATTACHED TO STEEL POST. MAINTAIN FENCE FABRIC IN A VERTICAL POSITION WITHOUT SAGGING. ADD ADDITIONAL POSTS IF NECESSARY.

4. PAID FOR AS PART OF \_BARRICADES, ACCESS, PROTECTION, TEMP AND TREE PROTECTION FENCE.



**ELEVATION** INSTALLATION ON PAVEMENT

NOTES:

1. TREE PROTECTION FENCING IS TO BE ERECTED PRIOR TO ANY EARTHWORK OR CONSTRUCTION AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.

2. ALL DEBRIS, FILL, EQUIPMENT OR MATERIAL IS TO BE KEPT CLEAR OF AREA WITHIN PROTECTIVE FENCE. NO CLEANING OF EQUIPMENT, OR MATERIAL, OR STORAGE, OR DISPOSAL OF ANY MATERIAL WITHIN THE DRIP LINE OF ANY TREES TO BE SAVED.

3. TREE PROTECTION FENCE CAN BE COMBINED TO INCLUDE MULTIPLE TREES.

4. FIELD CONFIRM TREE PROTECTION LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION.

5. MAINTAIN TREE PROTECTION IN GOOD VERTICAL CONDITION FOR THE DURATION OF THE PROJECT.

6. REMOVE AND DISPOSE OF MATERIALS AT PROJECT COMPLETION.

1 SET 5' HIGH CONSTRUCTION FENCE AT DRIP LINE

 $\langle$  2  $\rangle$  NO EQUIPMENT TO BE USED WITHIN THE DRIP LINE. EXISTING GRADE SHALL NOT BE DISTURBED UNLESS APPROVED BY OWNER'S REPRESENTATIVE.

**CONSTRUCTION FENCE ELEVATION & PLAN** 

ELEVATION

**VARIES** 

DEPENDING ON TREE SIZE

TREE PROTECTION FENCE

**ELEVATION** 

RING FENCE AROUND EXISTING TREE

1 E-D2.0

Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:



City of Detroit



**Eastern Market Corporation** 

## **SMITHGROUPJJR**

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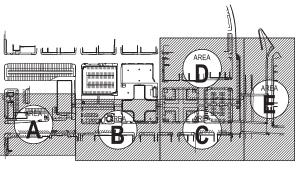
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SEALS AND SIGNATURES

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KEY PLAN





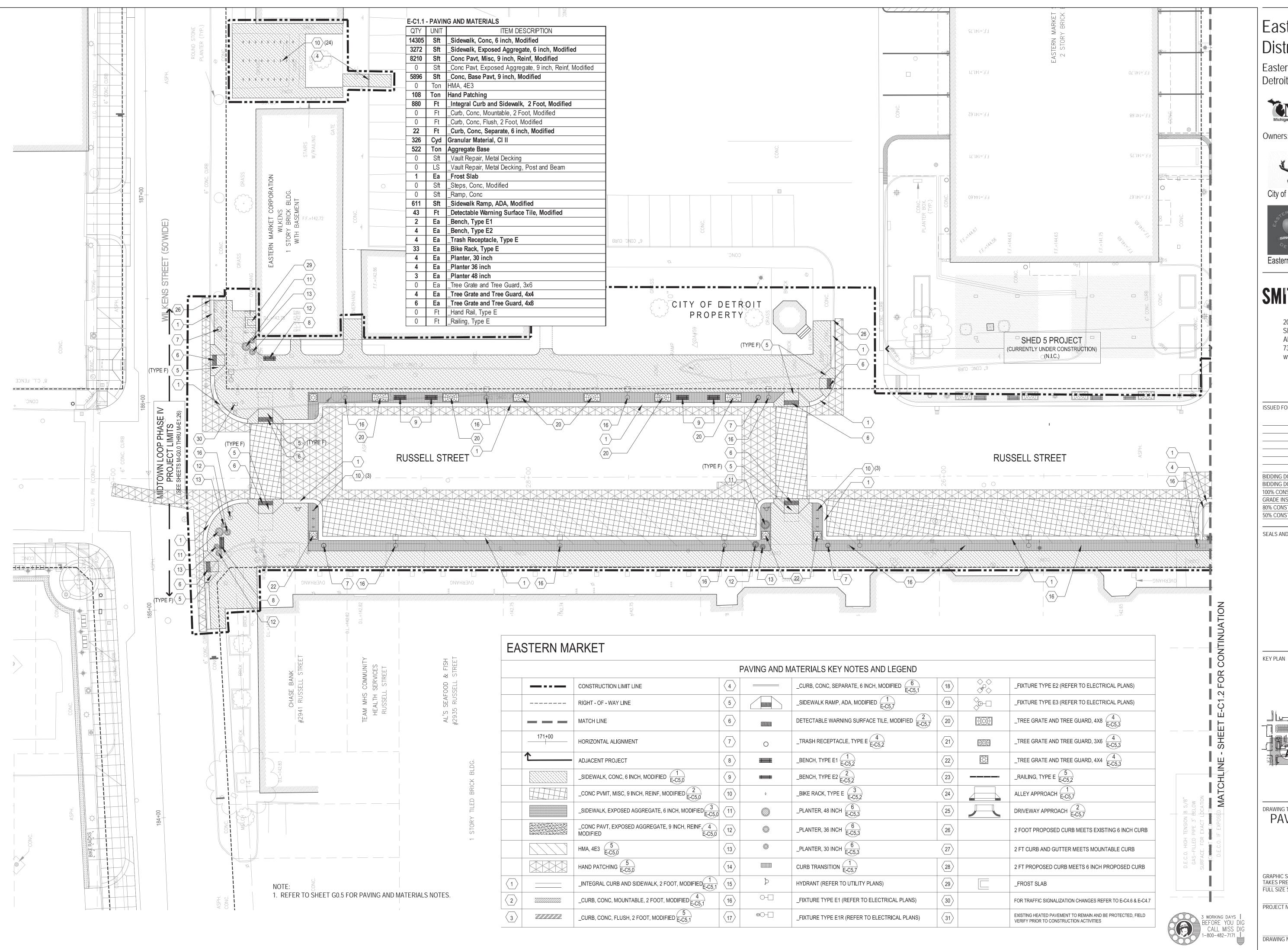
DEMOLITION AND EROSION CONTROL DETAILS

GRAPHIC SCALE AS NOTED FULL SIZE SCALE (24x36)

PROJECT NUMBER

131 of 497

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:







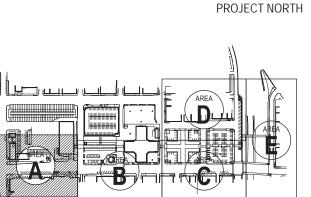
Eastern Market Corporation

## **SMITHGROUP JJR**

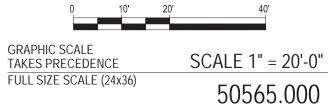
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SEALS AND SIGNATURES



PAVING AND MATERIALS PLAN - AREA A



PROJECT NUMBER

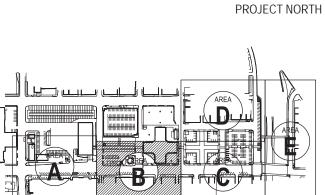
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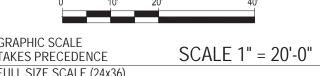


ANN ARBOR, MI 48104

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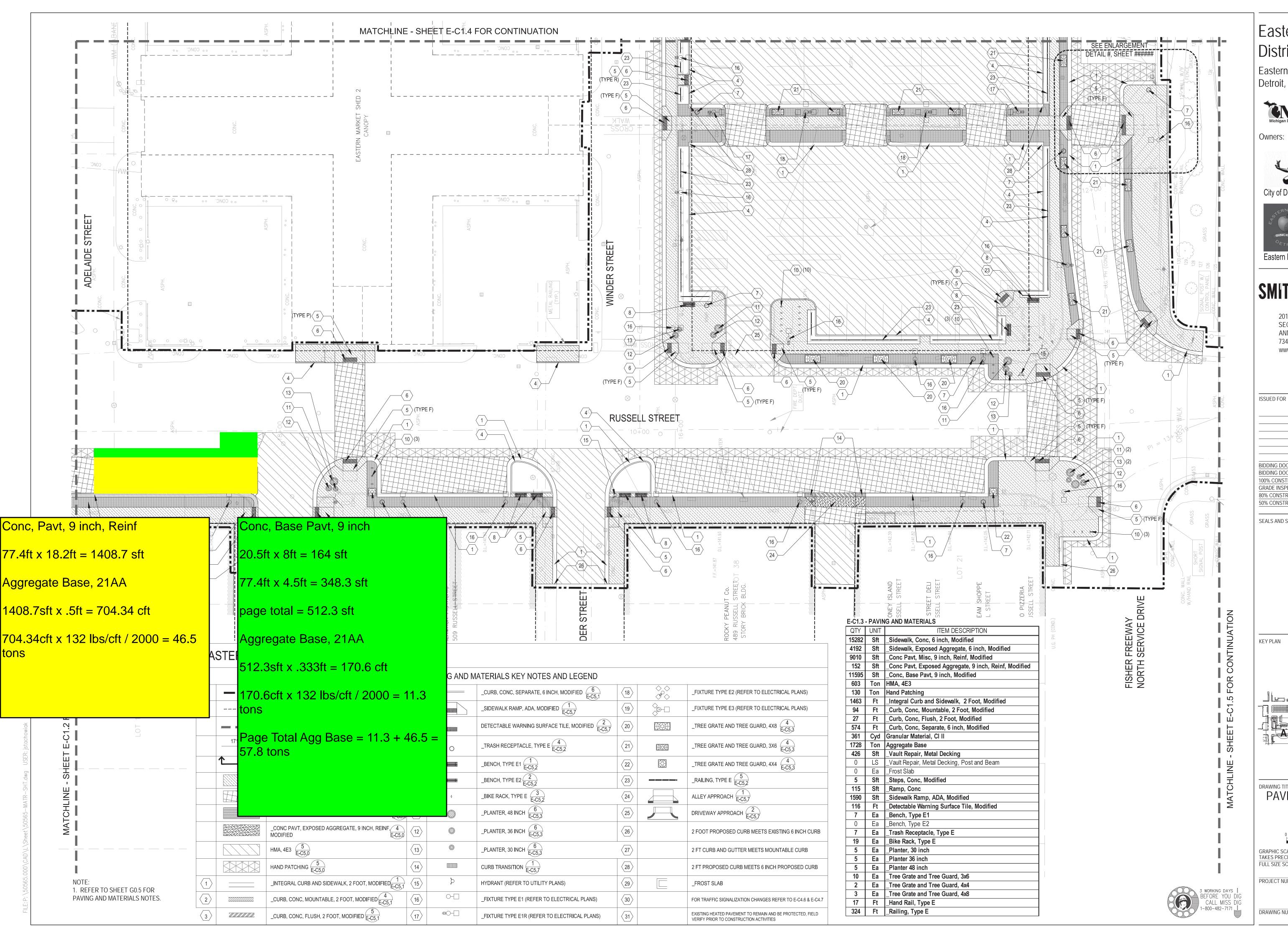


PAVING AND MATERIALS PLAN - AREA B



50565.000

E-C1.2



Eastern Market Detroit, Michigan







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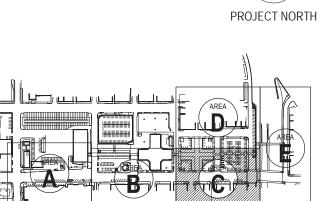
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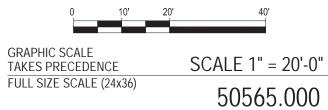
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SEALS AND SIGNATURES

KEY PLAN

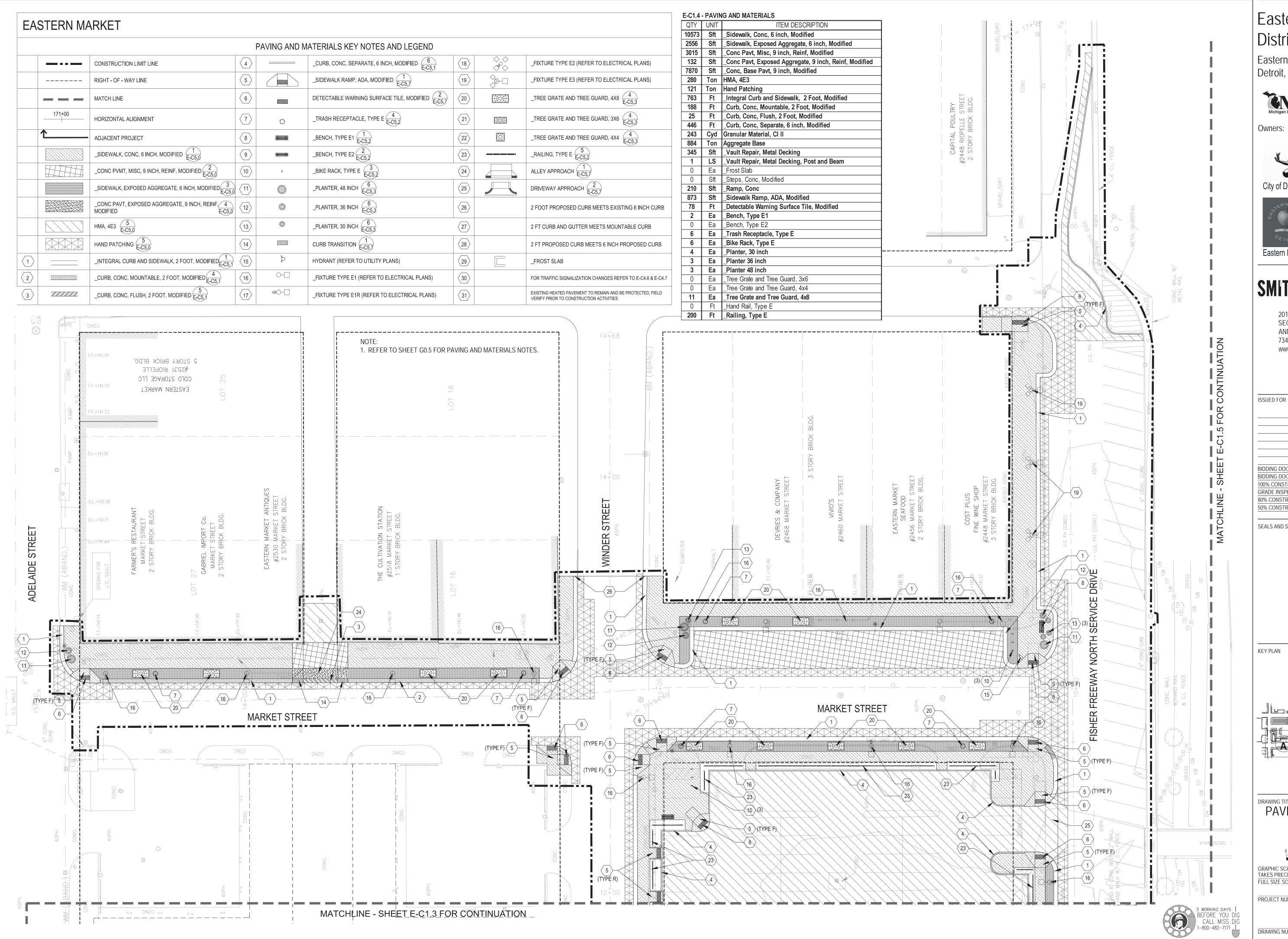


PAVING AND MATERIALS PLAN - AREA C



PROJECT NUMBER

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:



City of Detroit



Eastern Market Corporation

### **SMITHGROUPJJR**

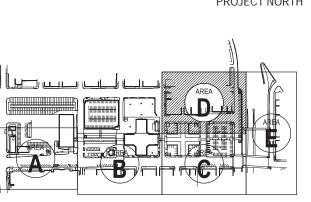
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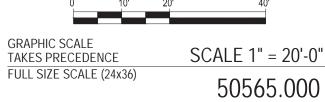
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SEALS AND SIGNATURES

KEY PLAN

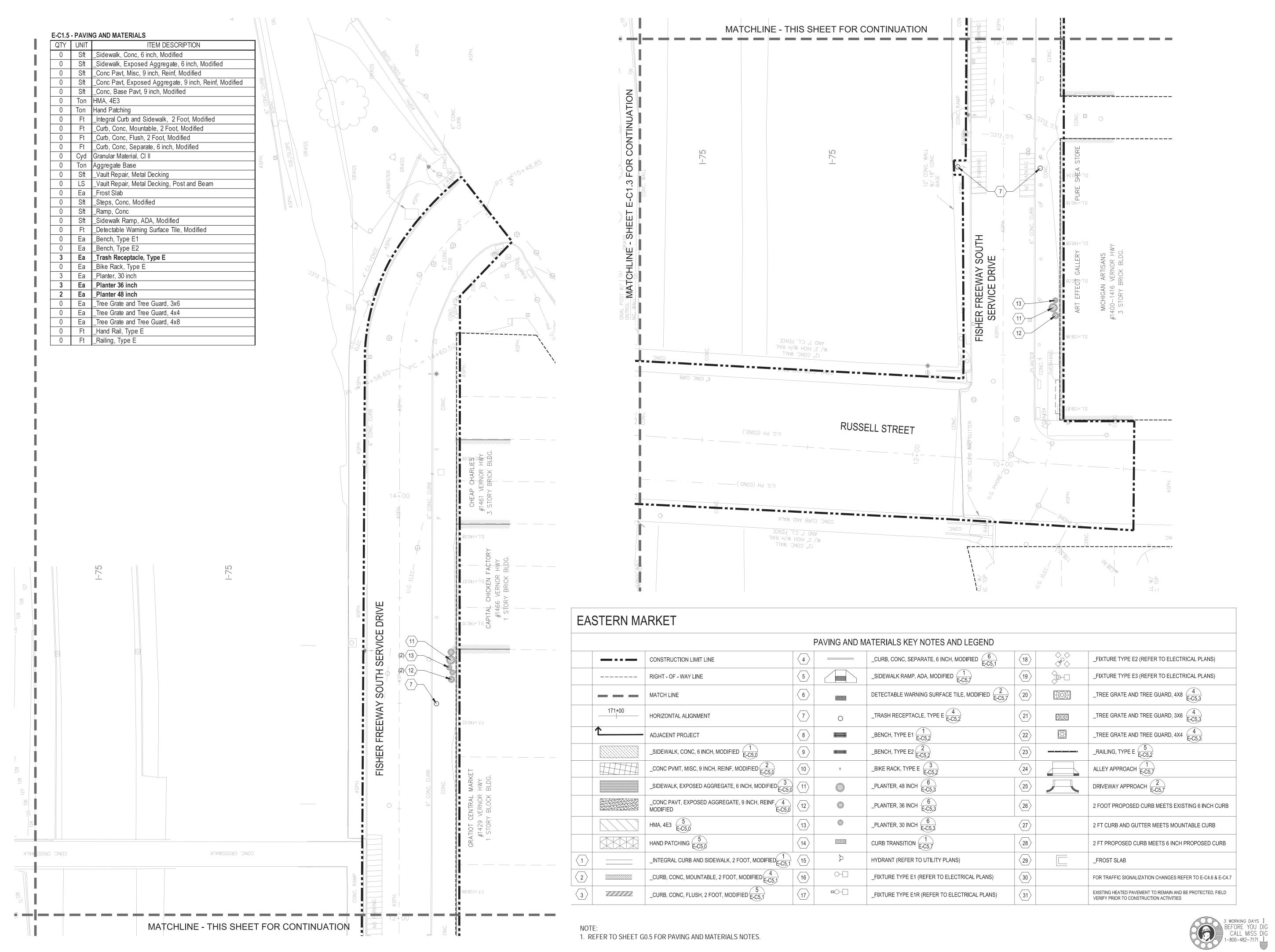


PAVING AND MATERIALS PLAN - AREA D



PROJECT NUMBER

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Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

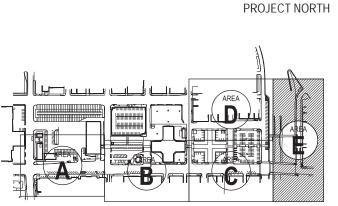
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SEALS AND SIGNATURES

KEY PLAN

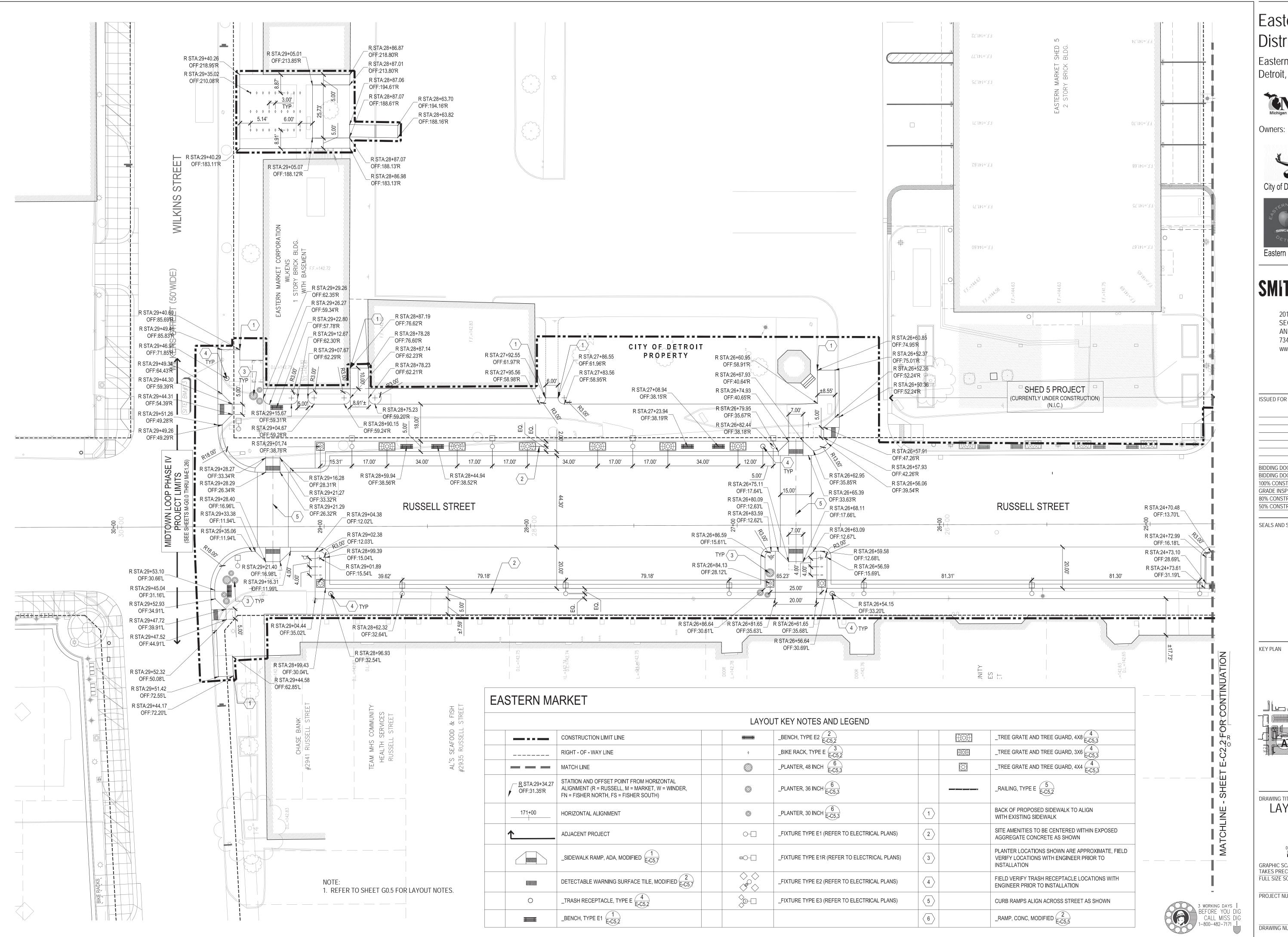


PAVING AND MATERIALS PLAN - AREA E

GRAPHIC SCALE TAKES PRECEDENCE SCALE 1" = 20'-0" FULL SIZE SCALE (24x36) 50565.000

PROJECT NUMBER

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Eastern Market Detroit, Michigan



Owners:





**Eastern Market Corporation** 

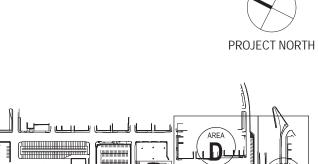
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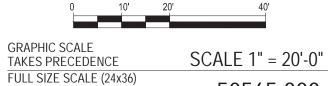
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SEALS AND SIGNATURES

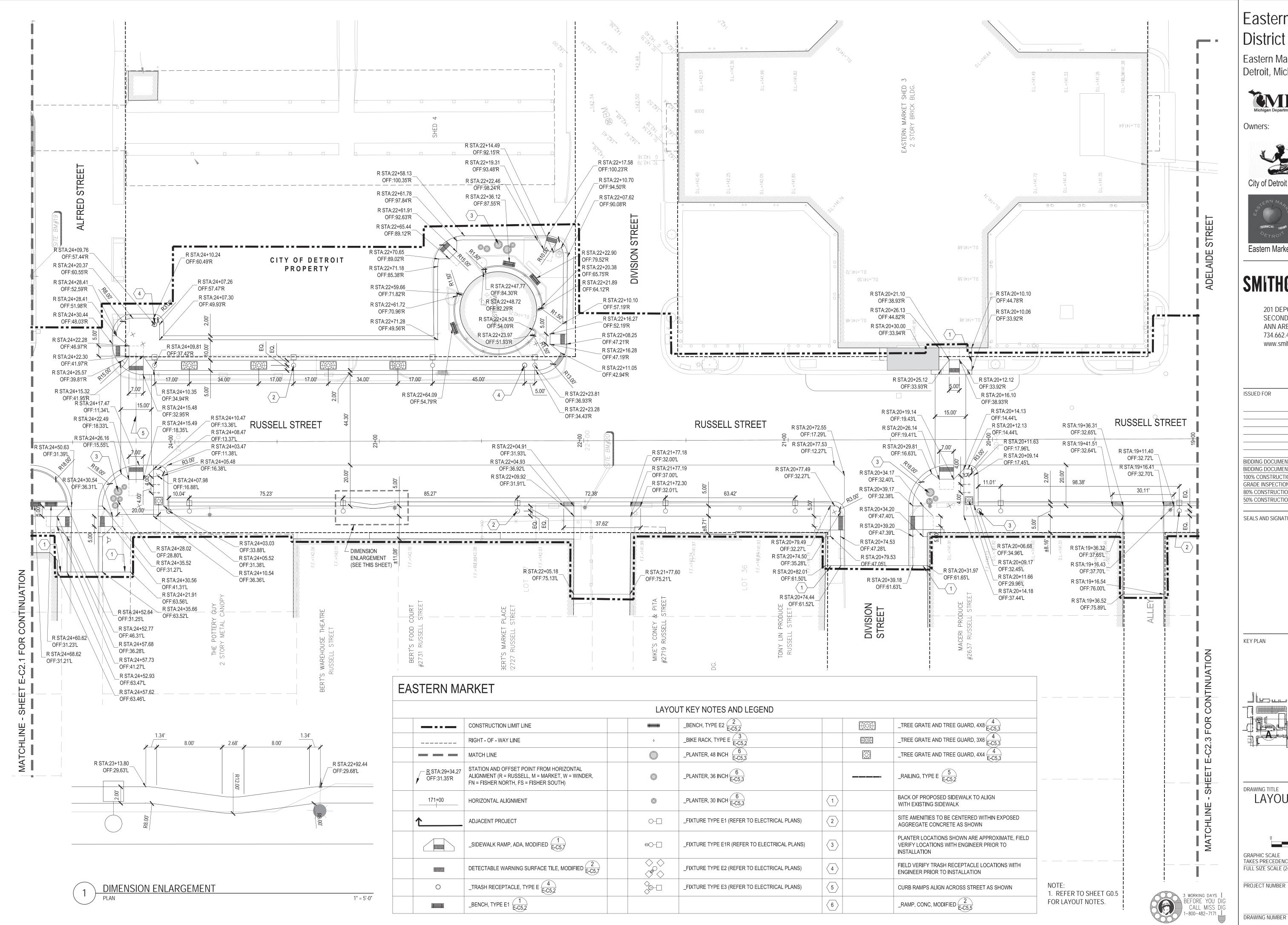


LAYOUT PLAN - AREA A



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Eastern Market Corporation

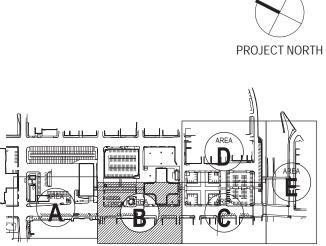
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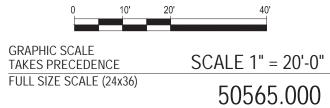
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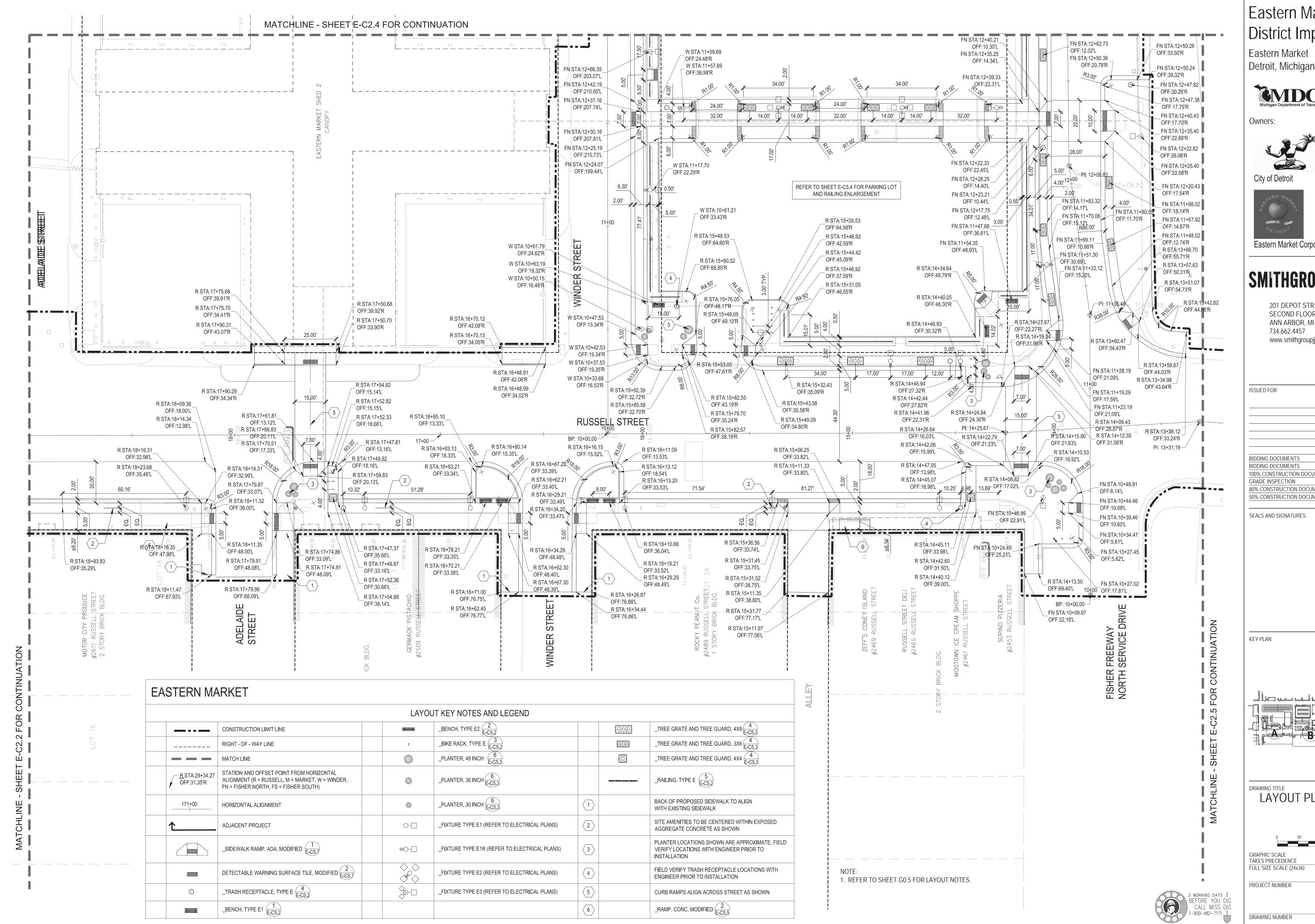
SEALS AND SIGNATURES



LAYOUT PLAN - AREA B



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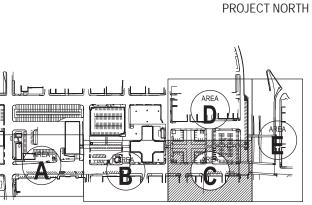
**Eastern Market Corporation** 

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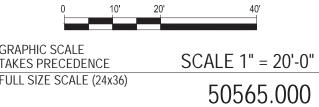
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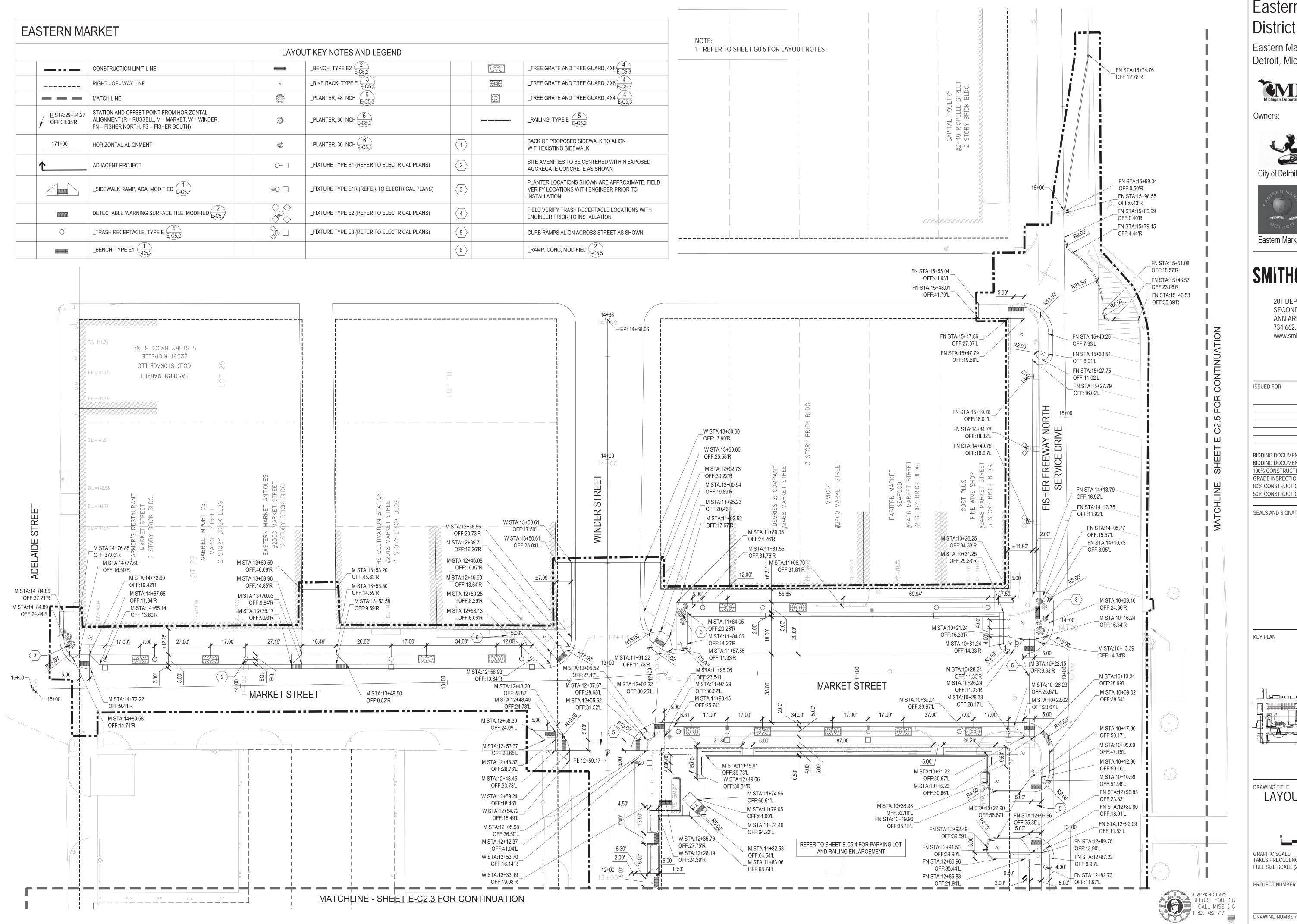
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LAYOUT PLAN - AREA C





Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

### **SMITHGROUPJJR**

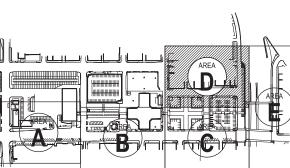
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SEALS AND SIGNATURES





LAYOUT PLAN - AREA D

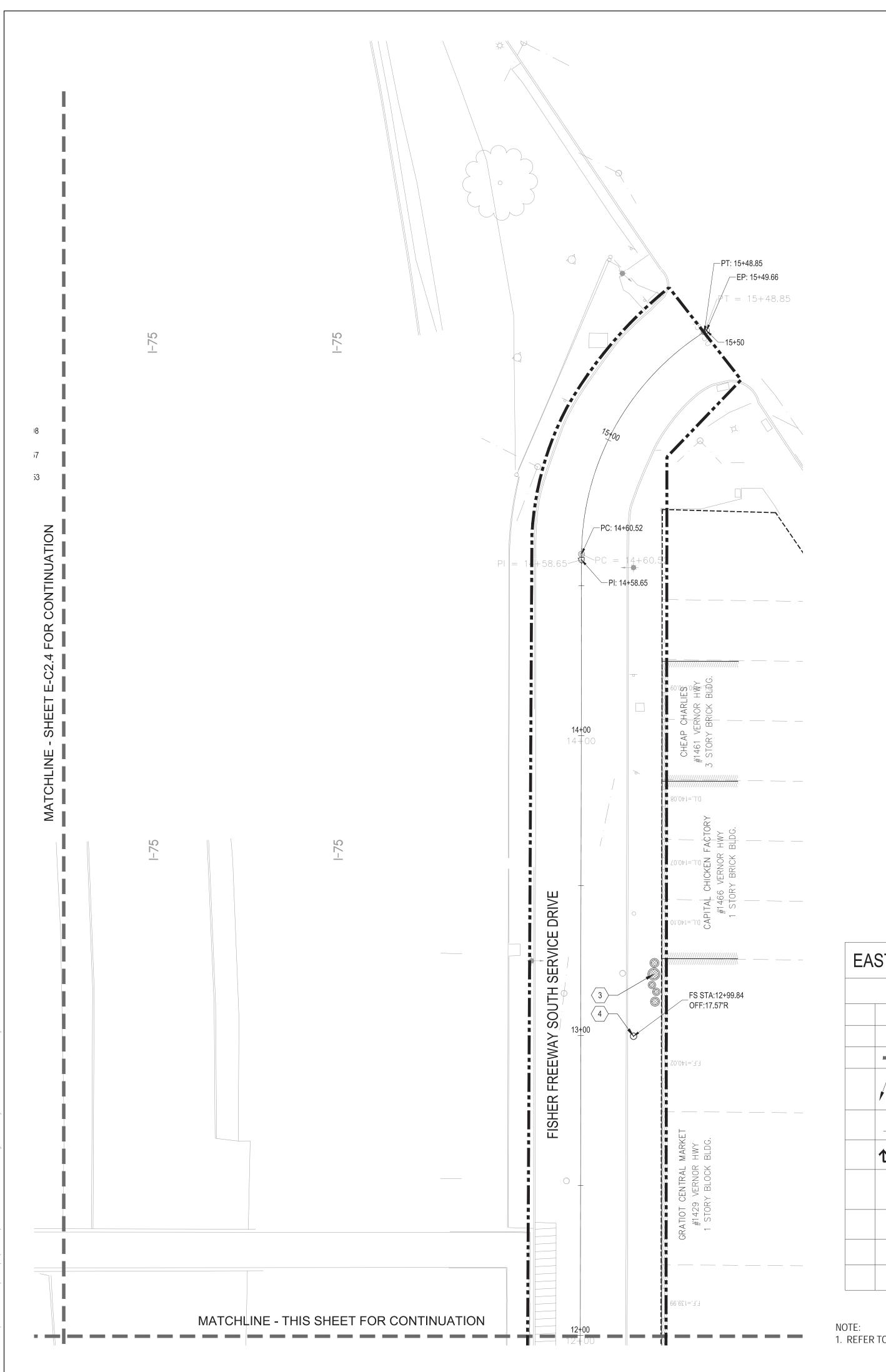


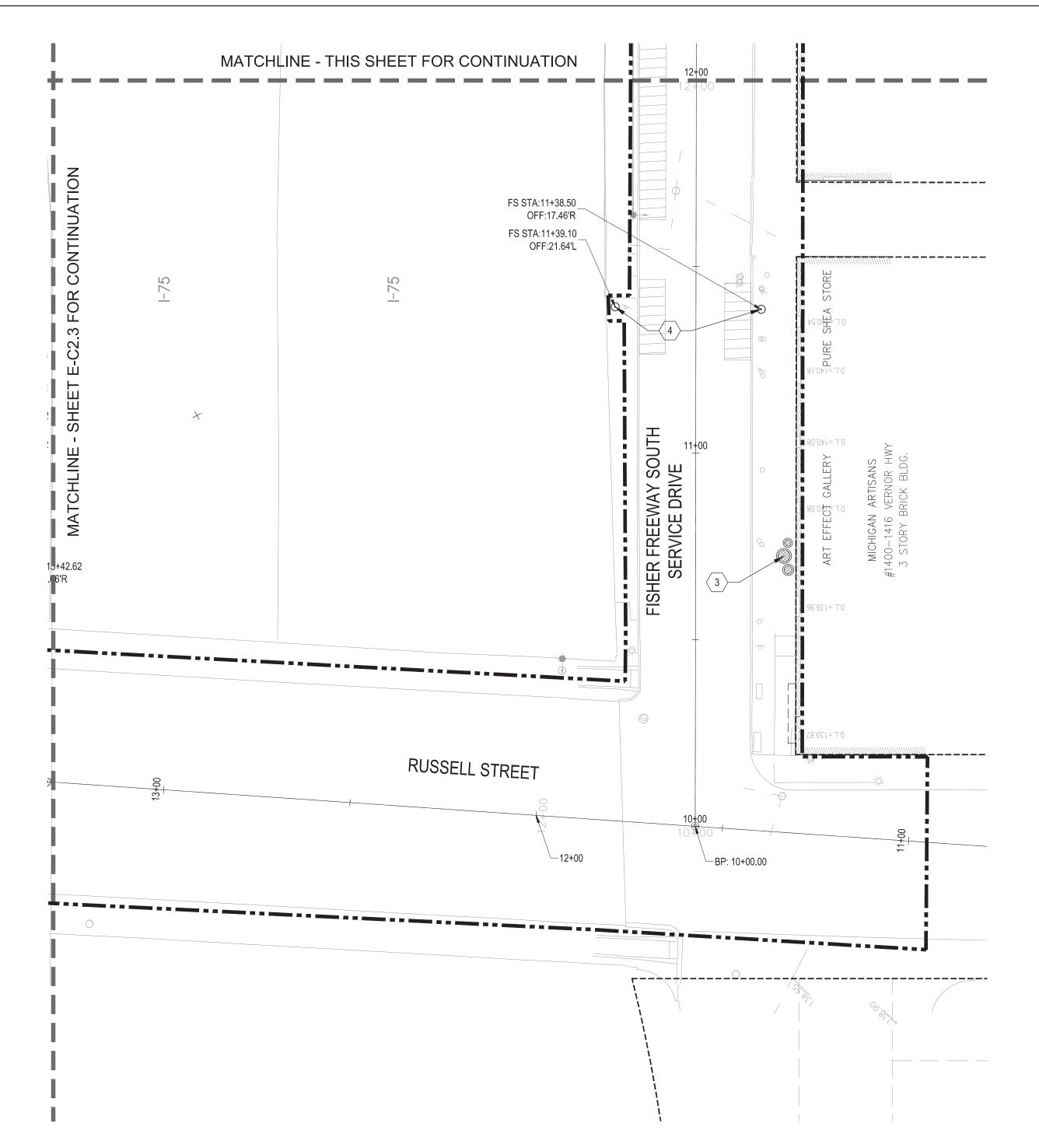
50565.000

DRAWING NUMBER

140 of 497

PROJECT NORTH





EASTERN MA	ARKET				
		LAYOU	IT KEY NOTES AND LEGEND		
	CONSTRUCTION LIMIT LINE	-	_BENCH, TYPE E2 $\frac{2}{\text{E-C5.2}}$		_TREE GRATE AND TREE GUARD, 4X8
	RIGHT - OF - WAY LINE	¢	_BIKE RACK, TYPE E $\frac{3}{\text{E-C5.2}}$		_TREE GRATE AND TREE GUARD, 3X6 E-C5.3
	MATCH LINE		_PLANTER, 48 INCH $\frac{6}{\text{E-C5.3}}$		_TREE GRATE AND TREE GUARD, 4X4 $(4)$ E-C5.3
R STA:29+34.27 OFF:31.35'R	STATION AND OFFSET POINT FROM HORIZONTAL ALIGNMENT (R = RUSSELL, M = MARKET, W = WINDER, FN = FISHER NORTH, FS = FISHER SOUTH)		_PLANTER, 36 INCH 6 E-C5.3		 _RAILING, TYPE E $\frac{5}{\text{E-C5.2}}$
171+00	HORIZONTAL ALIGNMENT	<b>©</b>	_PLANTER, 30 INCH $\frac{6}{\text{E-C5.3}}$	1	BACK OF PROPOSED SIDEWALK TO ALIGN WITH EXISTING SIDEWALK
<b>^</b>	ADJACENT PROJECT	0-[]	_FIXTURE TYPE E1 (REFER TO ELECTRICAL PLANS)	2	SITE AMENITIES TO BE CENTERED WITHIN EXPOSED AGGREGATE CONCRETE AS SHOWN
	_SIDEWALK RAMP, ADA, MODIFIED	₩0-[]	_FIXTURE TYPE E1R (REFER TO ELECTRICAL PLANS)	3	PLANTER LOCATIONS SHOWN ARE APPROXIMATE, FIELD VERIFY LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION
	DETECTABLE WARNING SURFACE TILE, MODIFIED 2 E-C5.7		_FIXTURE TYPE E2 (REFER TO ELECTRICAL PLANS)	4	FIELD VERIFY TRASH RECEPTACLE LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION
0	_TRASH RECEPTACLE, TYPE E		_FIXTURE TYPE E3 (REFER TO ELECTRICAL PLANS)	5	CURB RAMPS ALIGN ACROSS STREET AS SHOWN
==	_BENCH, TYPE E1			6	_RAMP, CONC, MODIFIED 2 E-C5.5

1. REFER TO SHEET G0.5 FOR LAYOUT NOTES.



## Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

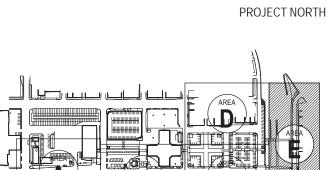
## **SMITHGROUPJJR**

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

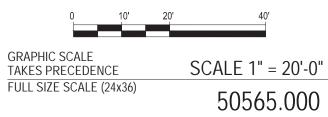
ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	5	MAY.21.2013
BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN

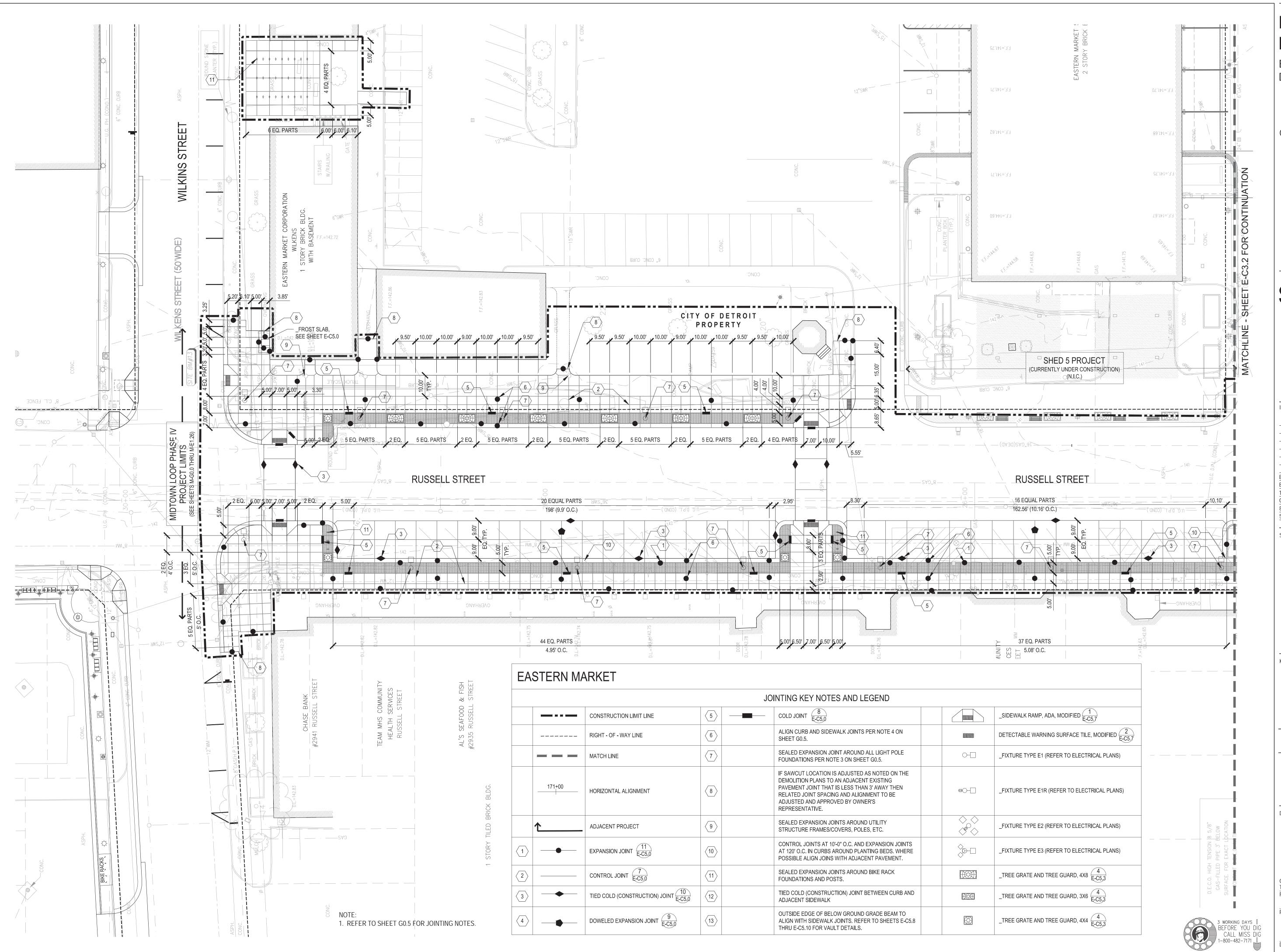


LAYOUT PLAN - AREA E



FULL SIZE SCALE (24x36) PROJECT NUMBER

DRAWING NUMBER



Eastern Market
Detroit, Michigan



Owners:





Eastern Market Corporation

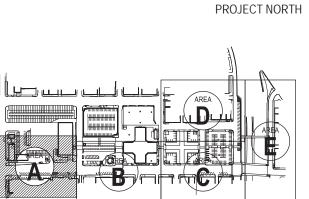
### **SMITHGROUPJJR**

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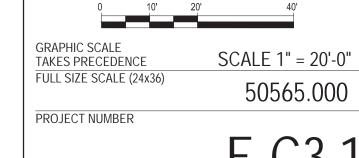
ISSUED FOR	REV	DATE
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50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

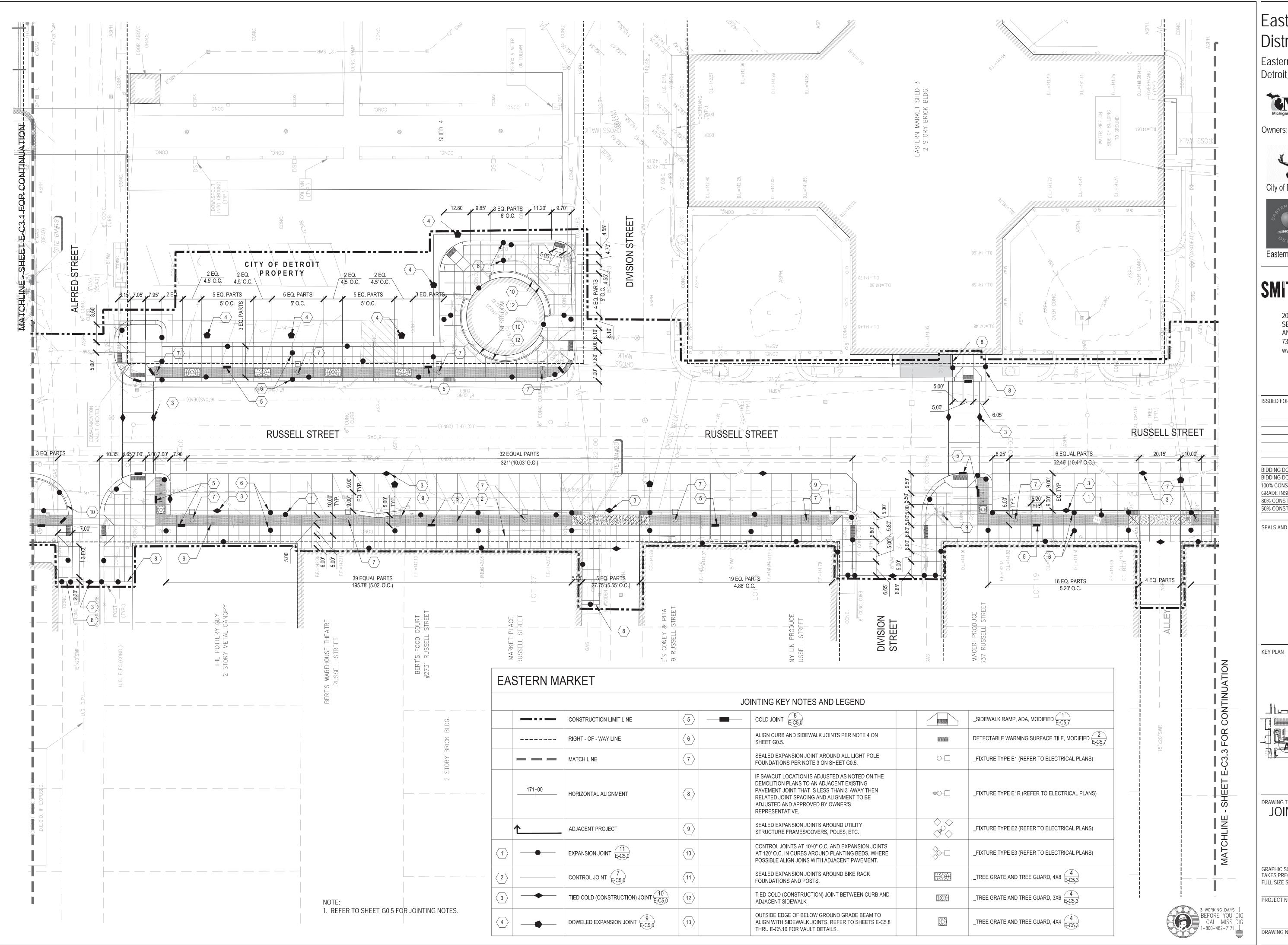
KEY PLAN



JOINTING PLAN - AREA A



DRAWING NUMBER 142 of 497



Eastern Market Detroit, Michigan



Owners:





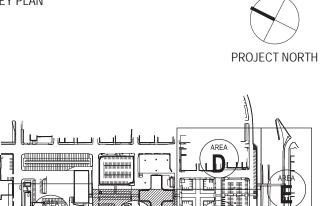
Eastern Market Corporation

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BIDDING DOCUMENTS	4	MAY.02.20
100% CONSTRUCTION DOCUMENTS	3	APR.01.201
GRADE INSPECTION	2	JAN.30.201
80% CONSTRUCTION DOCUMENTS	1	JAN.07.201
50% CONSTRUCTION DOCUMENTS	0	NOV.05.201

SEALS AND SIGNATURES

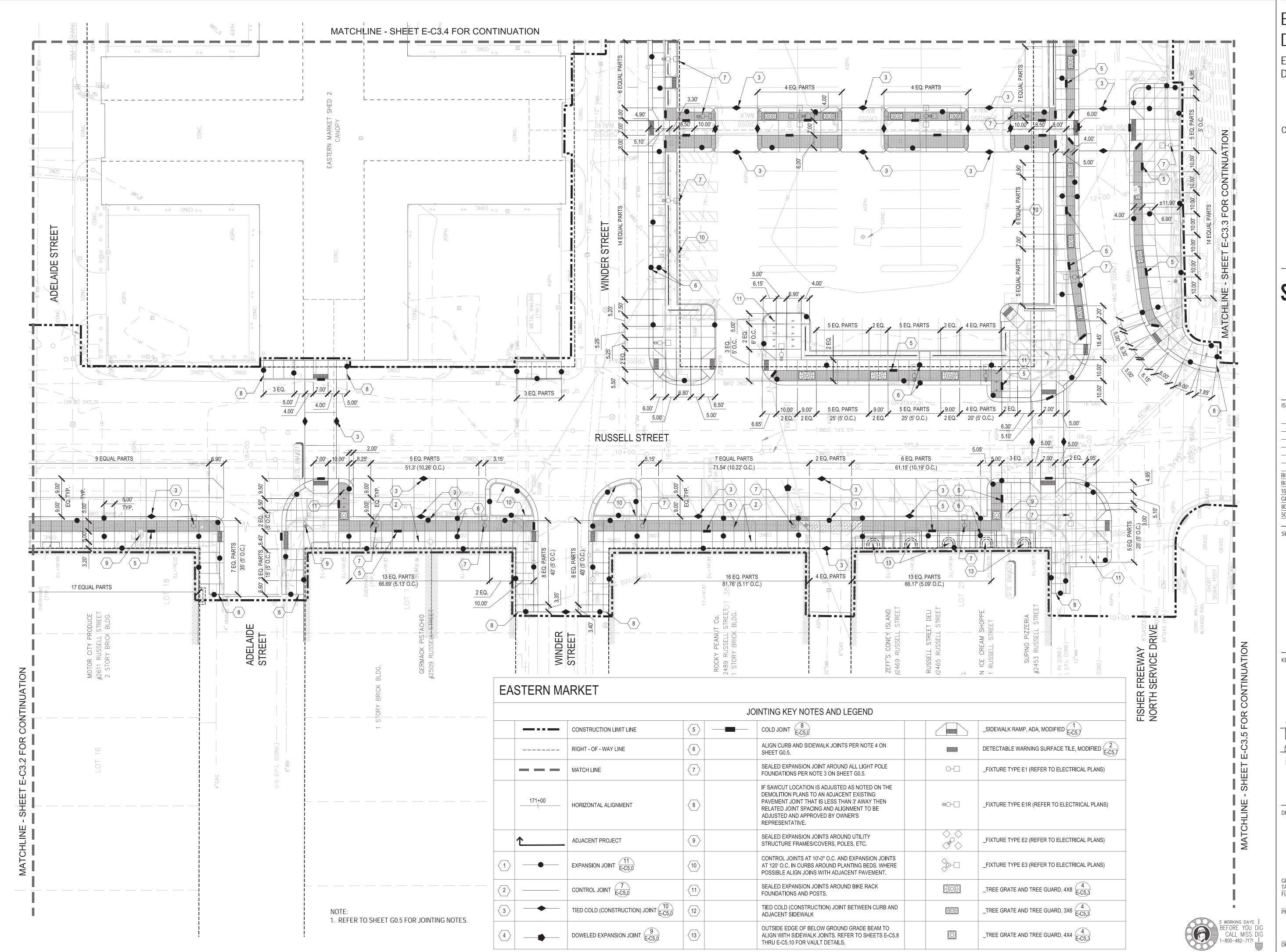


JOINTING PLAN - AREA B



PROJECT NUMBER

DRAWING NUMBER



Eastern Market
Detroit, Michigan



Owners:





SINCE 1891

Eastern Market Corporation

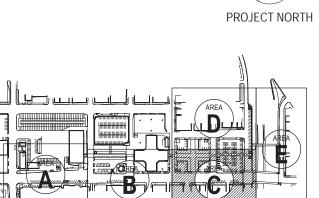
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ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	_5	MAY.21.2013
BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN



JOINTING PLAN - AREA C

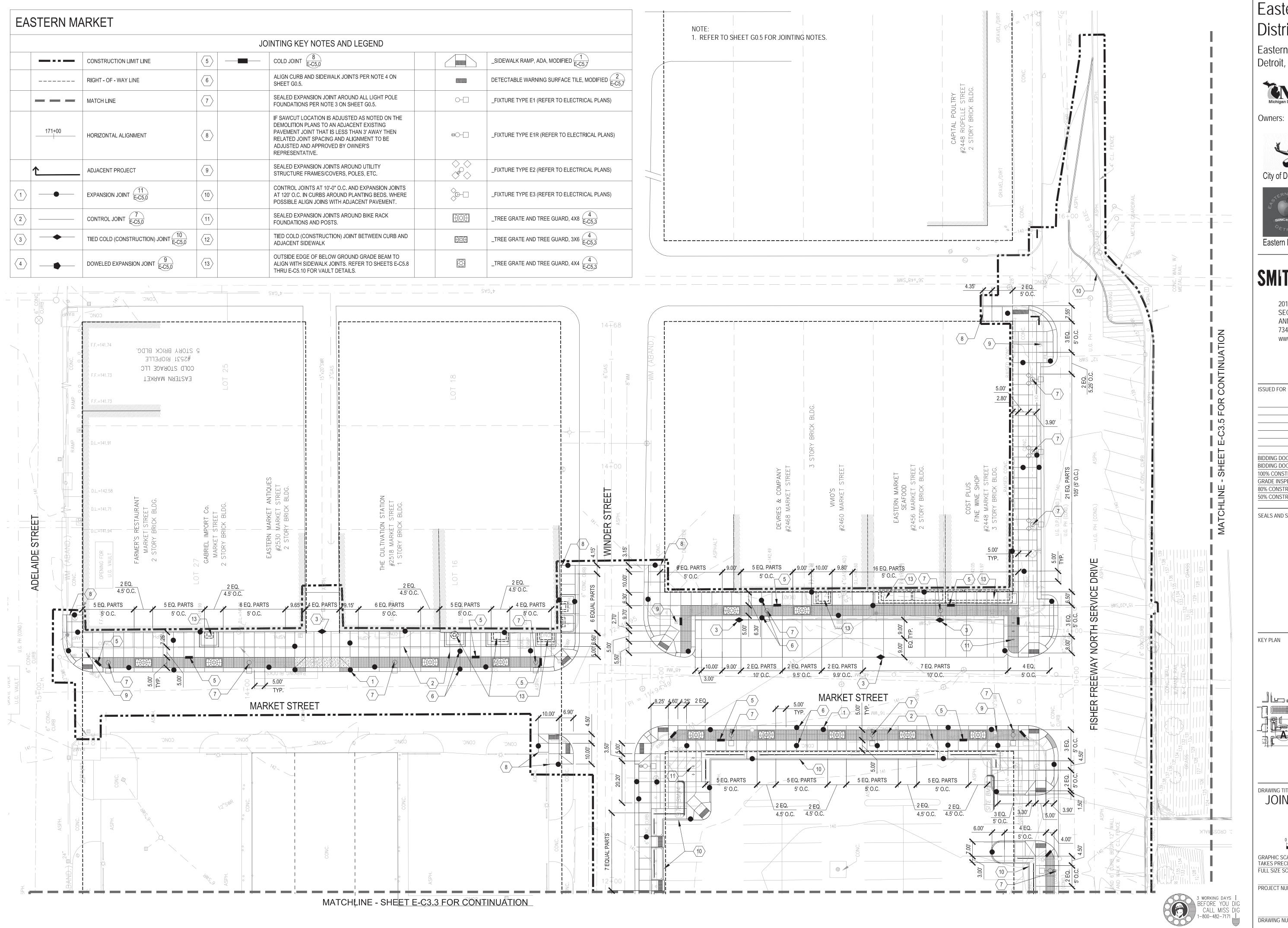


PROJECT NUMBER

PROJECT NUMBER

E-C3

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

#### **SMITHGROUP JJR**

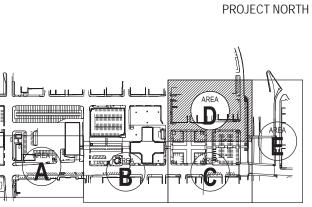
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GRADE INSPECTION	2	JAN.30.2013
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REV DATE

SEALS AND SIGNATURES

**KEY PLAN** 



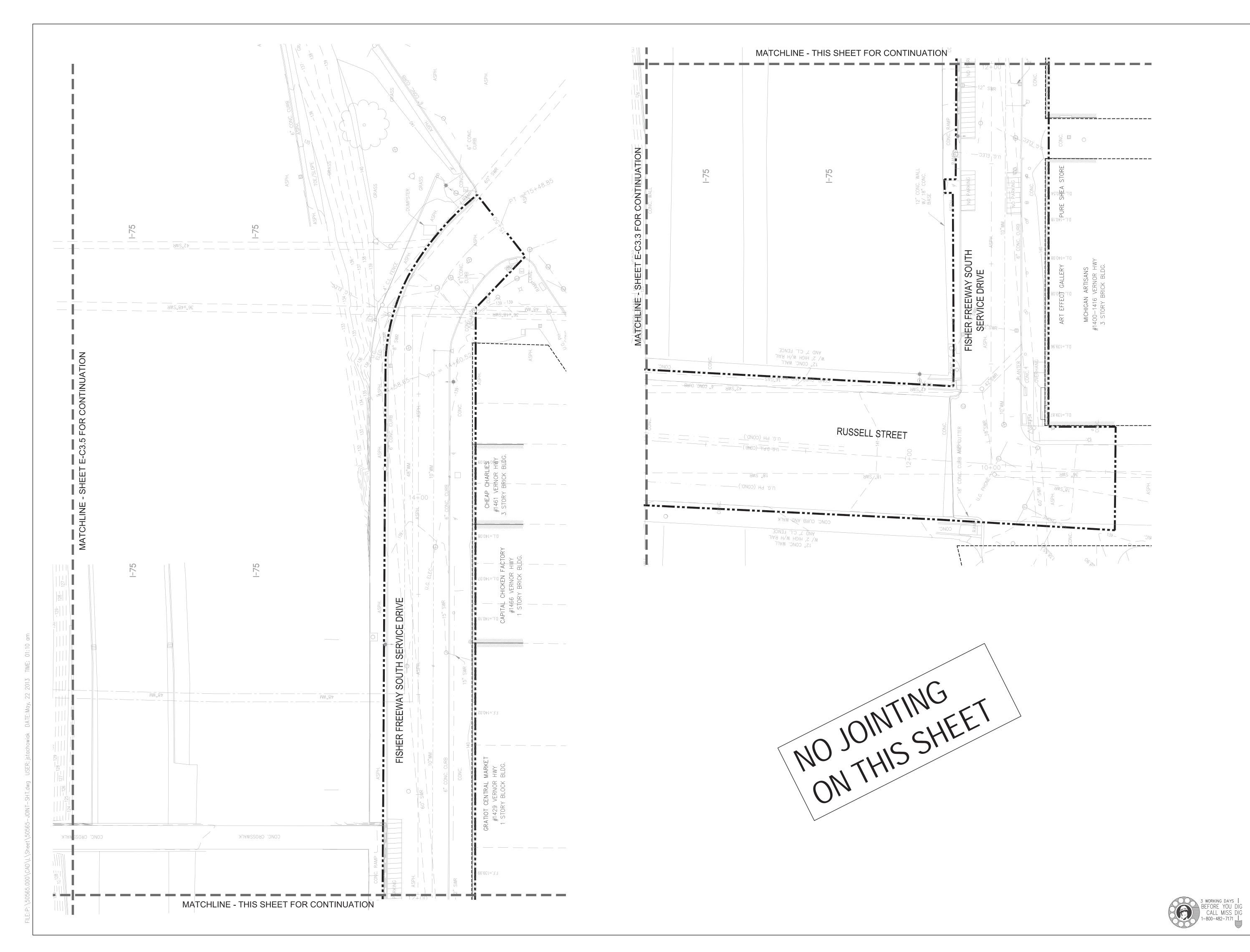
JOINTING PLAN - AREA D



FULL SIZE SCALE (24x36) 50565.000

PROJECT NUMBER

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

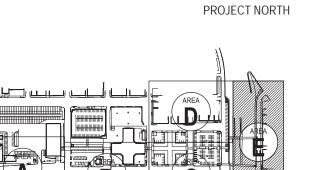
## **SMITHGROUPJJR**

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ISSUED FOR	REV	DATE
	—	
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BIDDING DOCUMENTS	4	MAY.02.201
100% CONSTRUCTION DOCUMENTS	3	APR.01.201
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN



DRAWING TITLE

JOINTING PLAN - AREA E



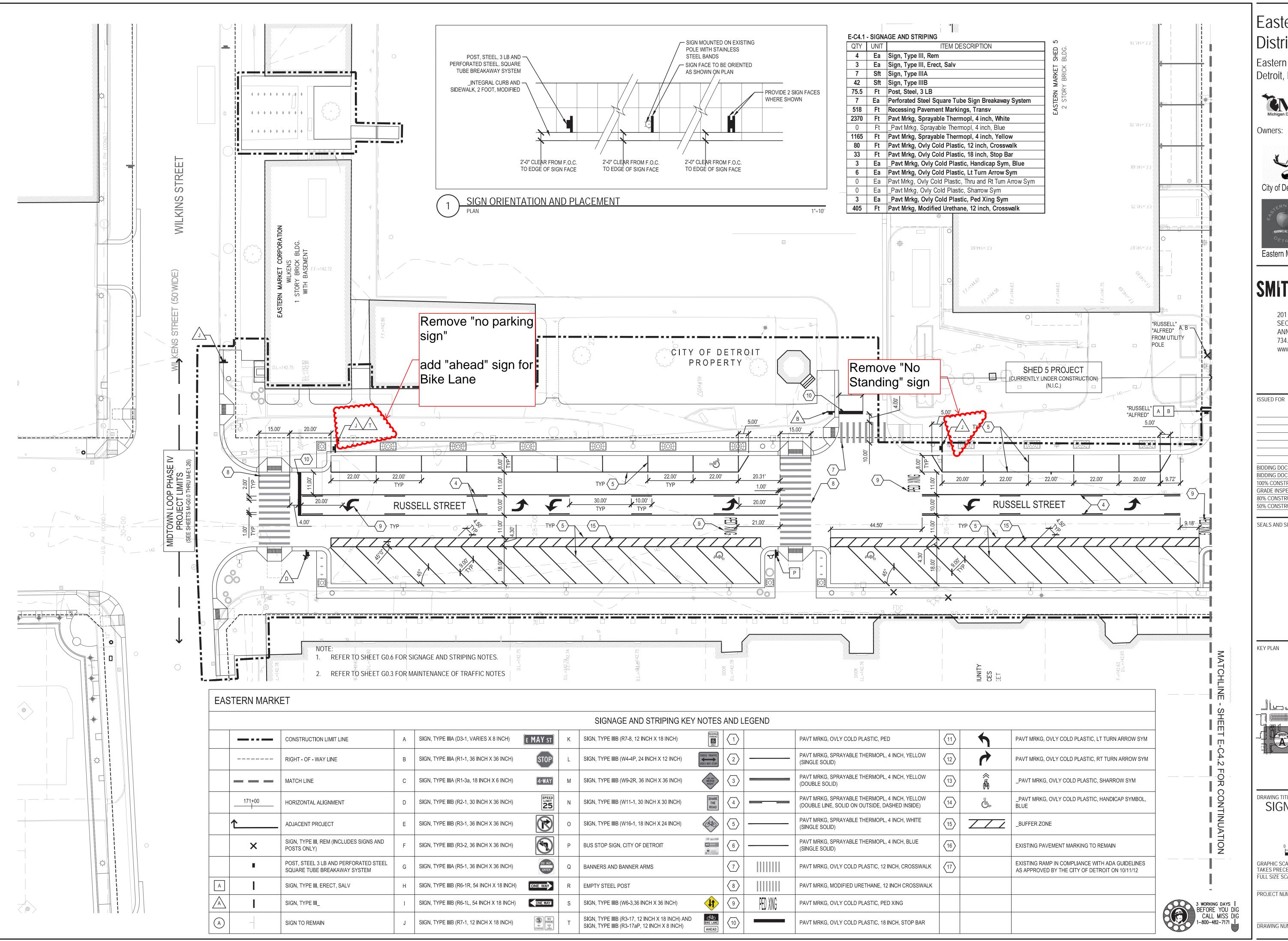
FULL SIZE SCALE (24x36)

PROJECT NUMBER

50565.000

DRAWING NUMBER

R 146



Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

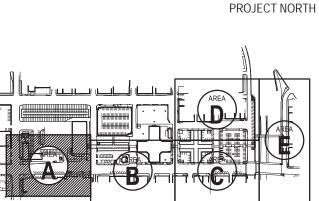
#### **SMITHGROUP JJR**

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BIDDING DOCUMENTS	_5	MAY.21.2013
BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

REV DATE

SEALS AND SIGNATURES



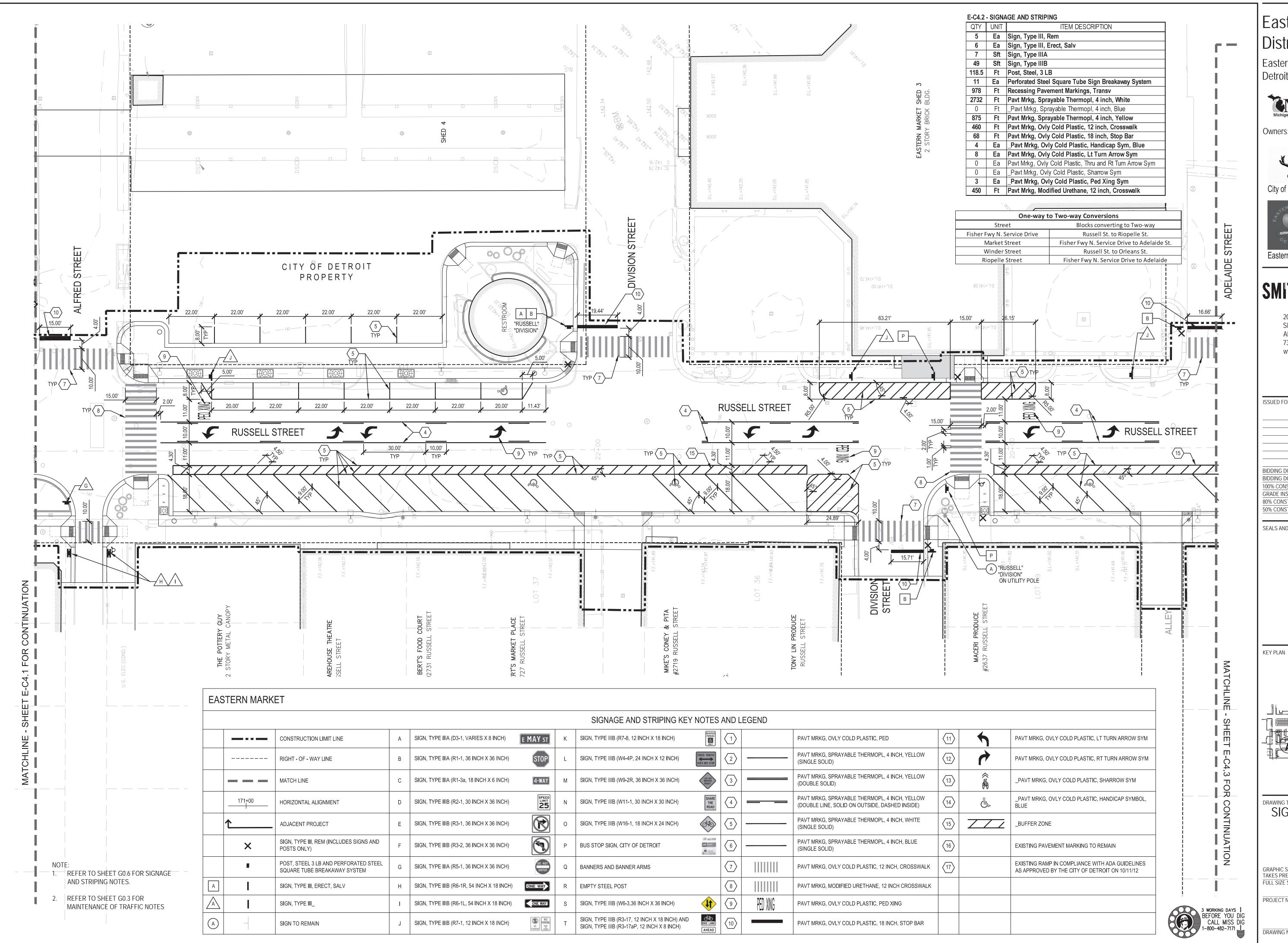
SIGNAGE AND STRIPING PLAN - AREA A



PROJECT NUMBER

DRAWING NUMBER

147 of 497



Eastern Market Detroit, Michigan



Owners:







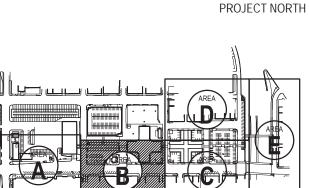
Eastern Market Corporation

#### **SMITHGROUP JJR**

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GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES



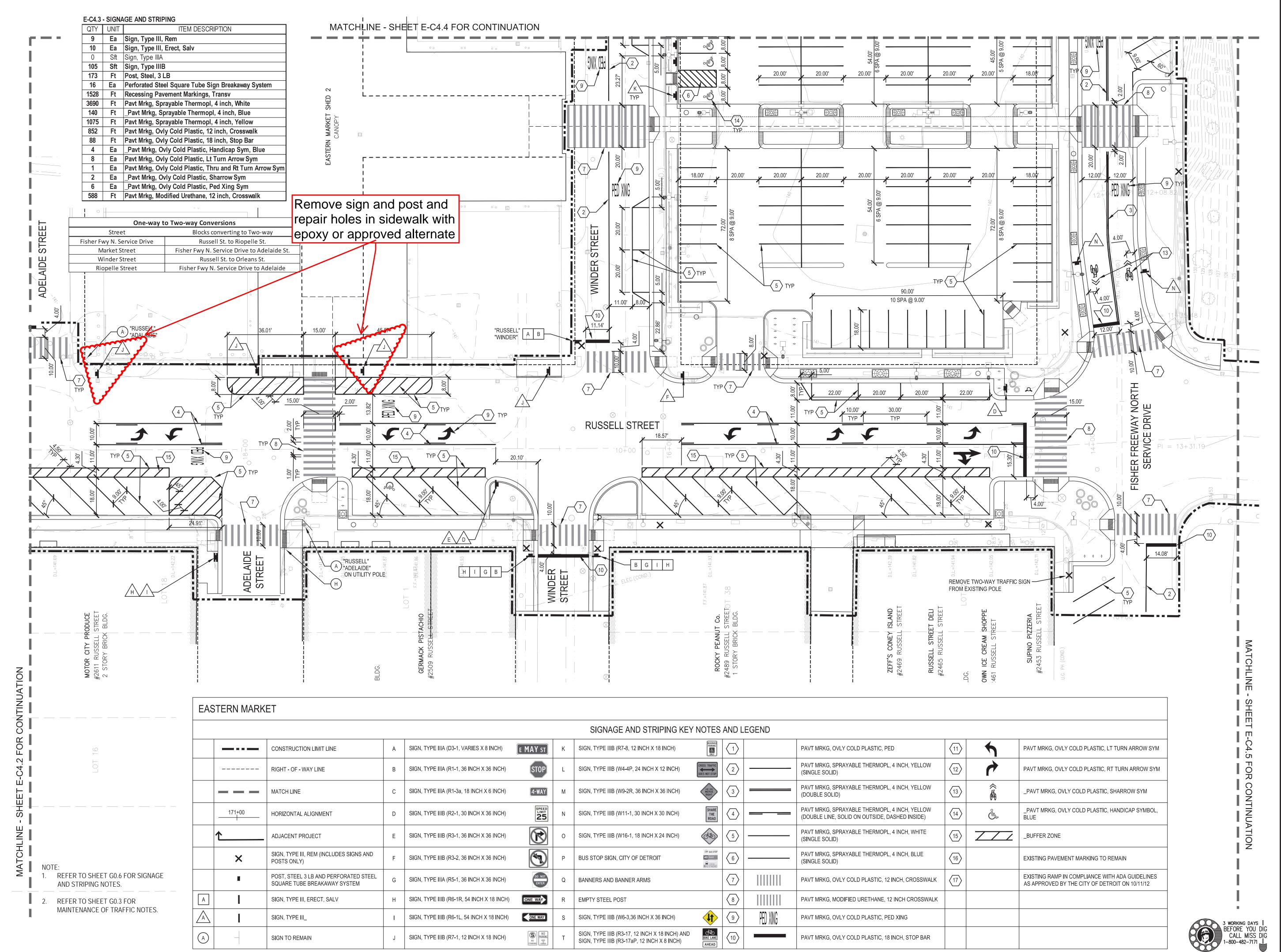
SIGNAGE AND STRIPING PLAN - AREA B

GRAPHIC SCALE SCALE 1" = 20'-0"

TAKES PRECEDENCE FULL SIZE SCALE (24x36) PROJECT NUMBER

DRAWING NUMBER

148 of 497



Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

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BIDDING DOCUMENTS	_5	MAY.21.2013
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100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
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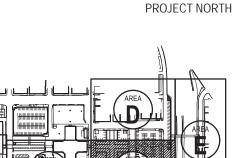
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NOV.05.2012

SEALS AND SIGNATURES

ISSUED FOR

KEY PLAN



SIGNAGE AND STRIPING PLAN - AREA C

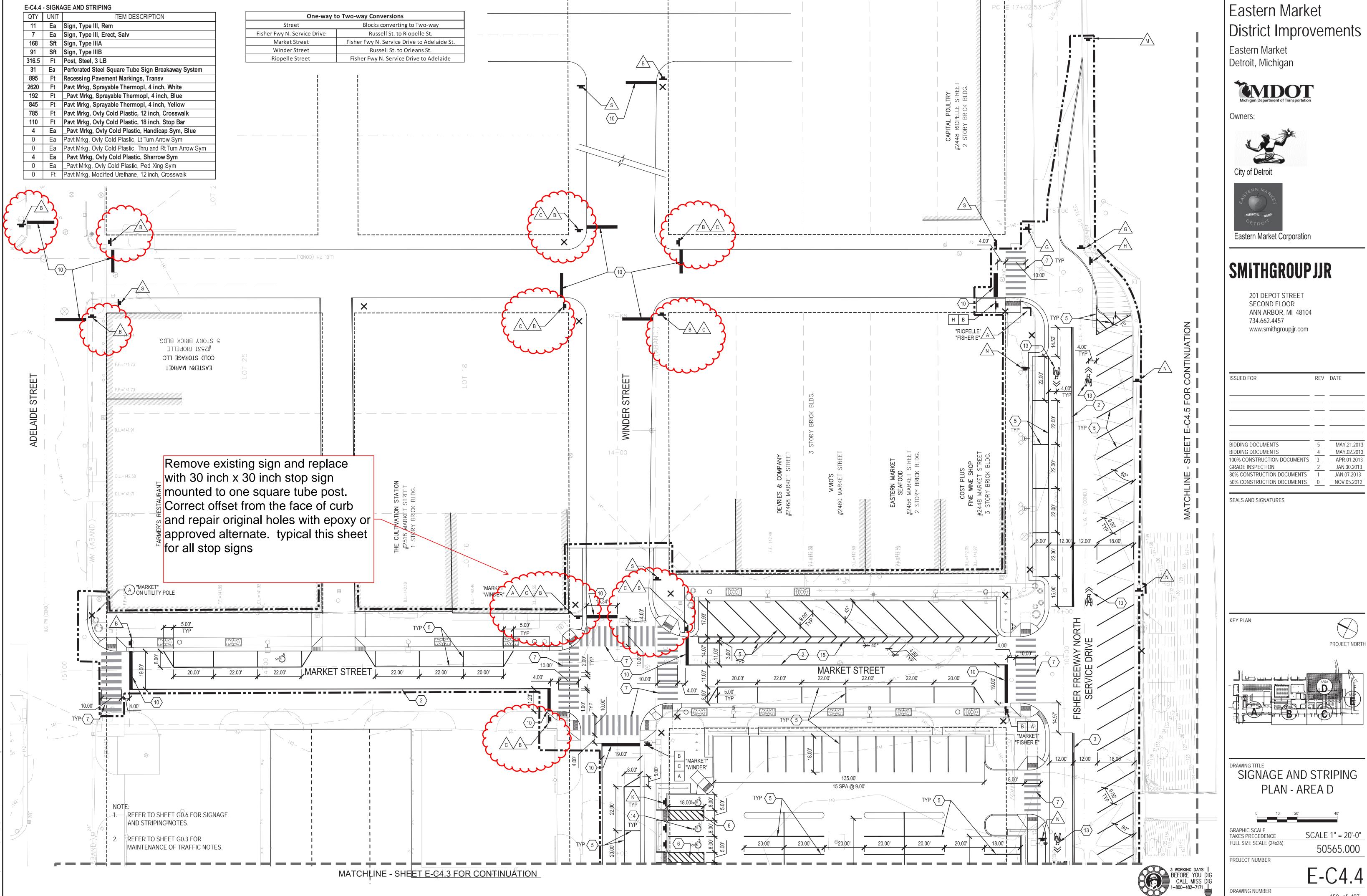


FULL SIZE SCALE (24x36)

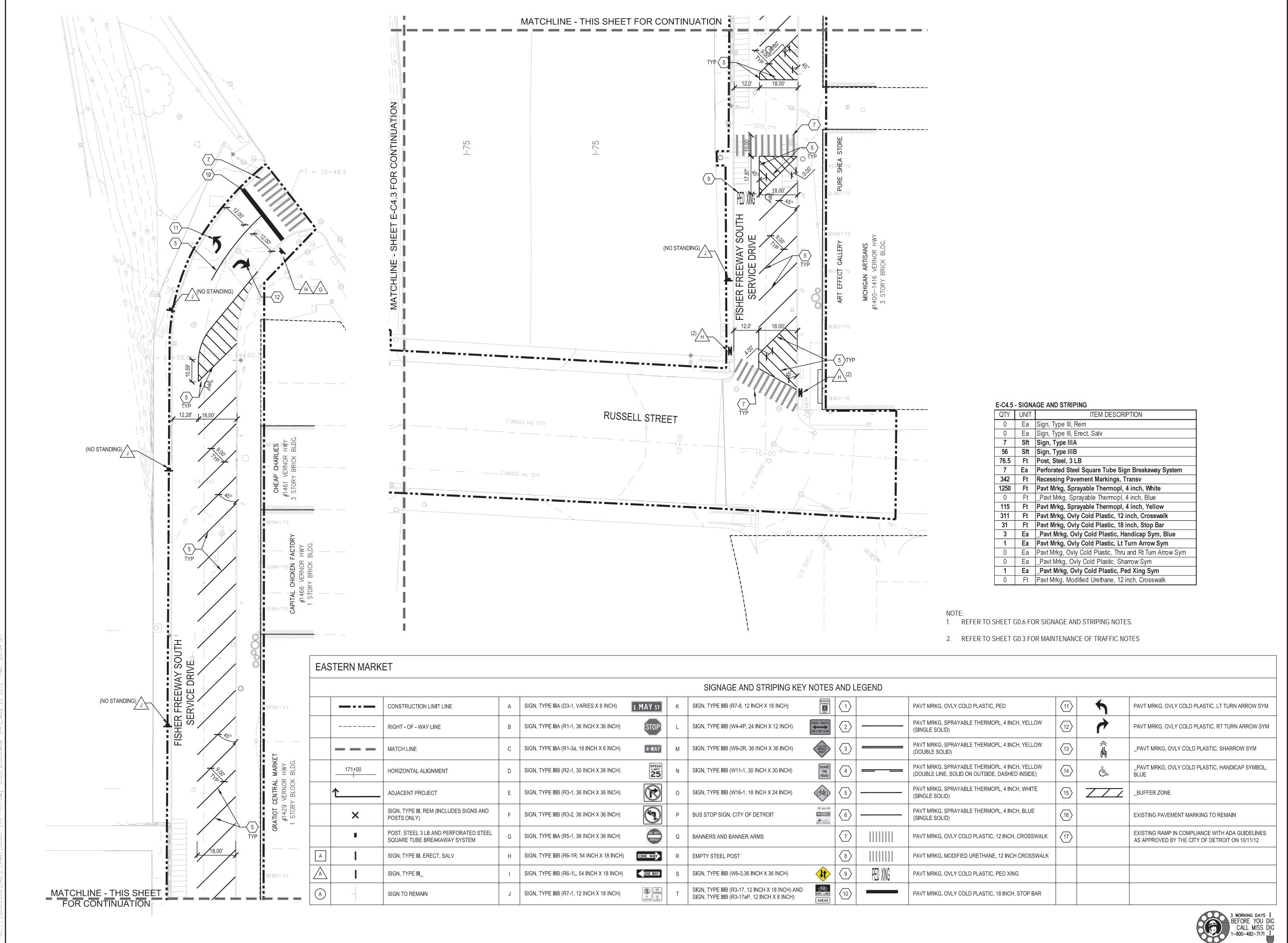
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149 of 497



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100% CONSTRUCTION DOCUMENTS	3	APR.01.201
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Eastern Market Detroit, Michigan



Owners:





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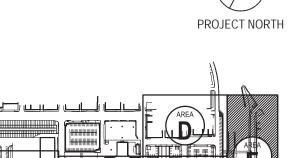
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100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
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80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

**SEALS AND SIGNATURES** 

KEY PLAN



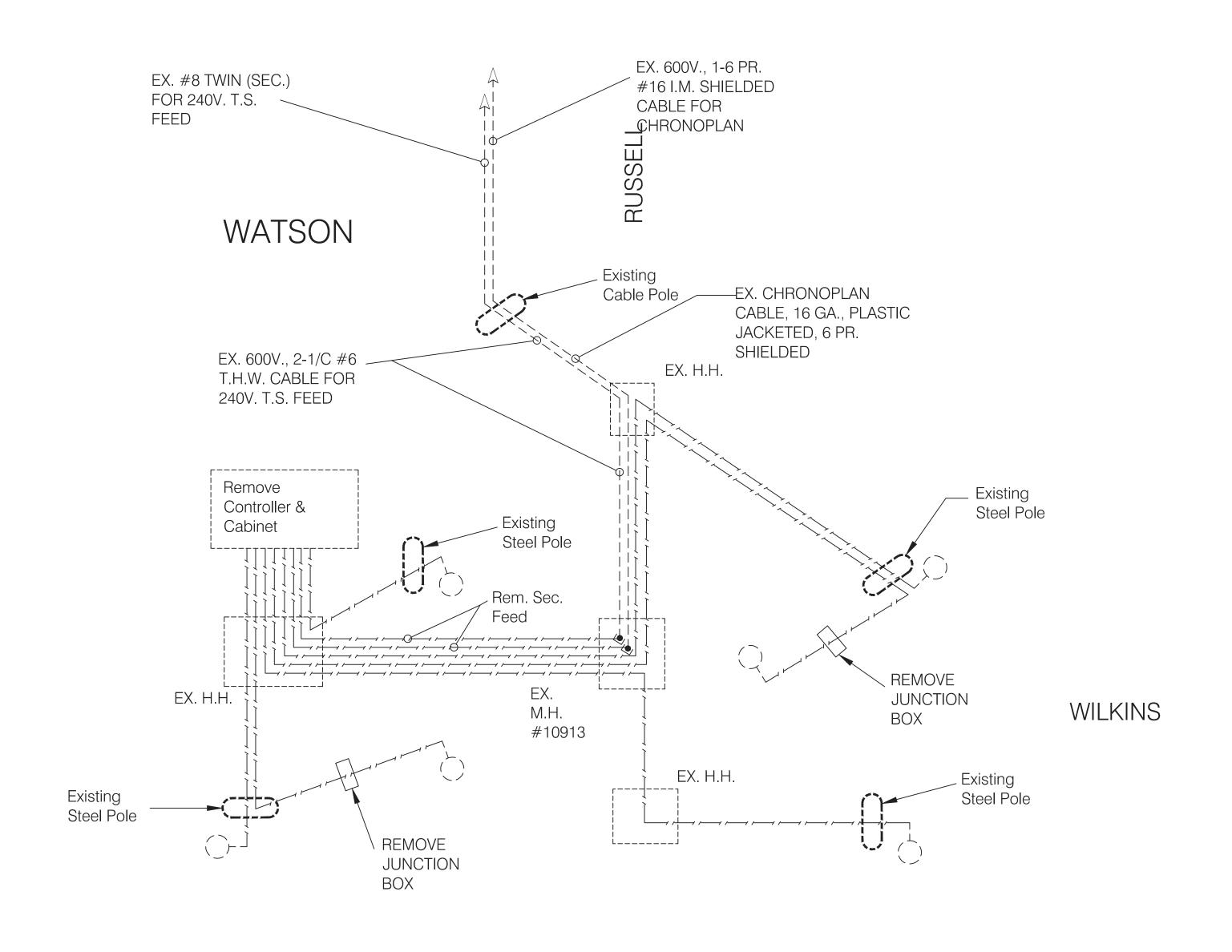
SIGNAGE AND STRIPING PLAN - AREA E



PROJECT NUMBER

50565.000

DRAWING NUMBER



REMOVAL WIRING DIAGRAM

### Existing Street Light Pole— RUSSELL (3) Remove Bracket — Arm Mtd. T.S. ② Remove Bracket Arm — Mtd. Pedestrian T.S. Existing Steel Pole Remove Bracket Arm 2 Mtd. Pedestrian T.S. 5 Remove T.S. Controller & Cabinet 6 Remove Cabinet Foundation . × EX.M.H. 10913 Existing New Junction Box WILKINS \_\_\_\_ × \_\_\_\_ EX.H.H. Existing New Junction Box Existing Steel Pole Existing Steel Pole — Remove Bracket ③ ② Remove Bracket Arm Arm Mtd. T.S. Mtd. Pedestrian T.S. Remove Bracket Arm (2) Mtd. Pedestrian T.S.

REMOVAL PLAN SCALE: 1" = 20'

#### REMOVAL

Final Submittal

G.I. Submittal

REVISIONS LOCATED BY COORDINATES ON SHEET

	LIST OF MATERIAL		
NO.	ITEMS	QTY	ITEM CODE
1	TS, Span Wire Mtd, Rem	2 Ea	8200182
2	TS, Pedestrian, Bracket Arm Mtd, Rem	4 Ea	8200180
3	TS, Bracket Arm Mtd, Rem	2 Ea	8200175
4	Span Wire, Rem	2 Ea	8200141
5	Controller and Cabinet, Rem	1 Ea	8200030
6	Controller Fdn, Rem	1 Ea	8200046

	LIST OF MATERIAL				
NO.	ITEMS	QTY	ITEM CODE		
1	TS, Span Wire Mtd, Rem	2 Ea	8200182		
2	TS, Pedestrian, Bracket Arm Mtd, Rem	4 Ea	8200180		
3	TS, Bracket Arm Mtd, Rem	2 Ea	8200175		
4	Span Wire, Rem	2 Ea	8200141		
5	Controller and Cabinet, Rem	1 Ea	8200030		
6	Controller Fdn, Rem	1 Ea	8200046		

REFERENCE DRAWINGS

DESIGNED BY

DRAWN BY

TRACED BY

APPROVED:

M. Antani K. Patel

J. Lappin

Jubi Chackunkal

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION

APPROVED BY: FILE NO:

TRAFFIC SIGNAL MODERNIZATION RUSSELL AND WILKINS

REMOVAL SHEET

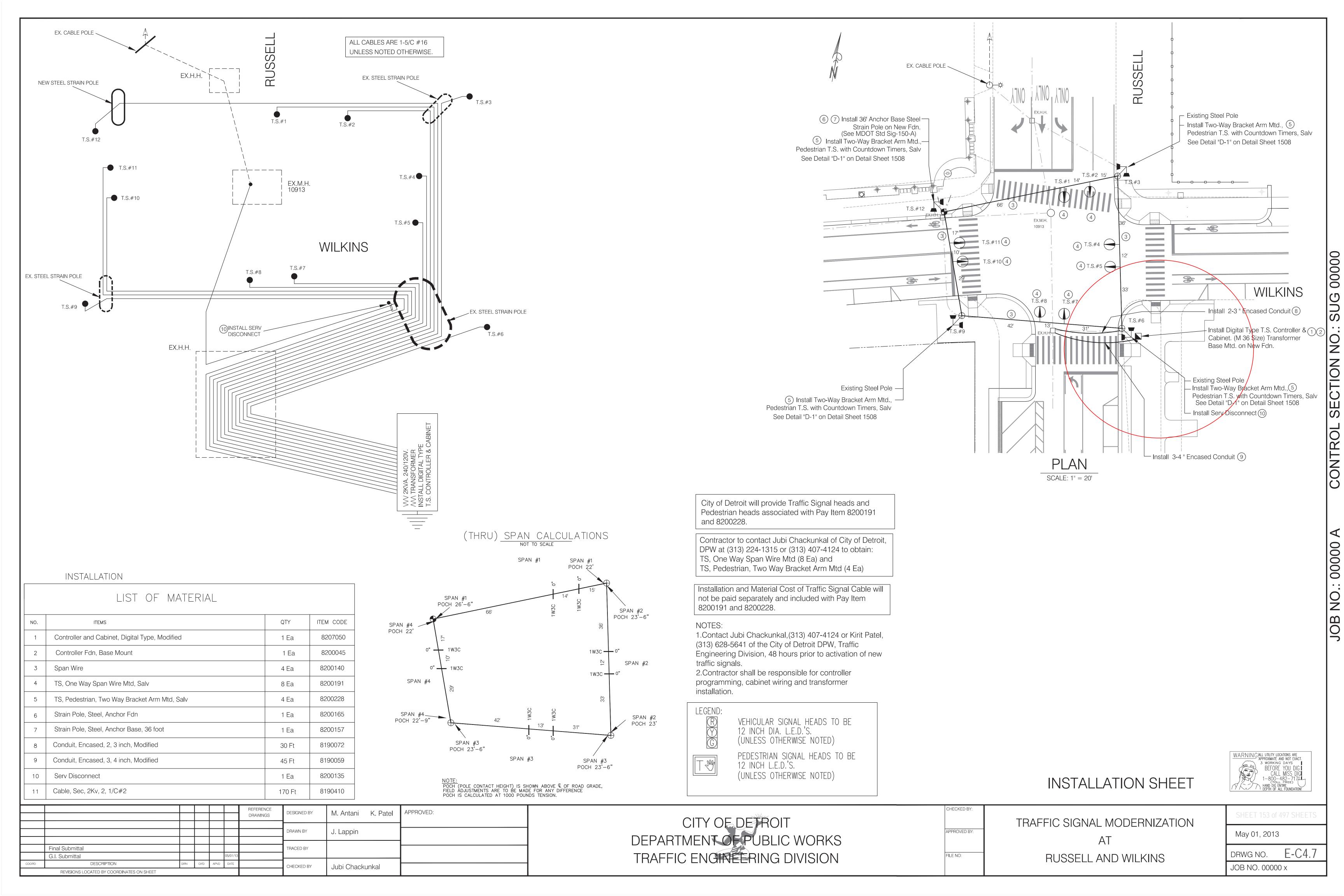
WARNING	ALL UTILITY LOCATIONS ARE APPROXIMATE AND NOT EXACT.
	APPROXIMATE AND NOT EXACT.
	3 WORKING DAYS
MISS DIG	REFORE YOU DIG !
	DELOIVE TOO DIO
隐毒/Y	CALL MISS DIG
NEW/	1-800-482-7174
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	MAND DIG ENTIRE
/ / / \v/ /	DEPTH OF ALL FOUNDATION!

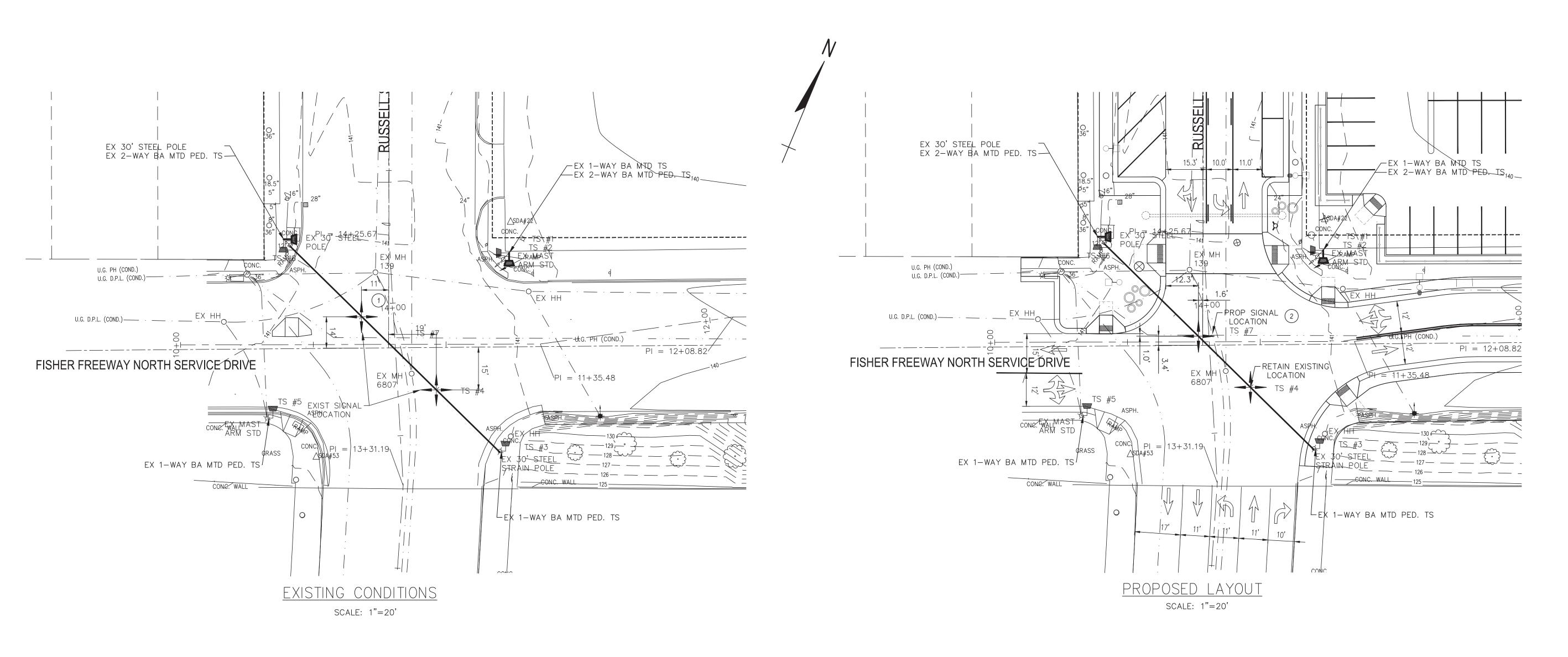
SHEET 152 of 497 SHEETS	_
May 01, 2013	

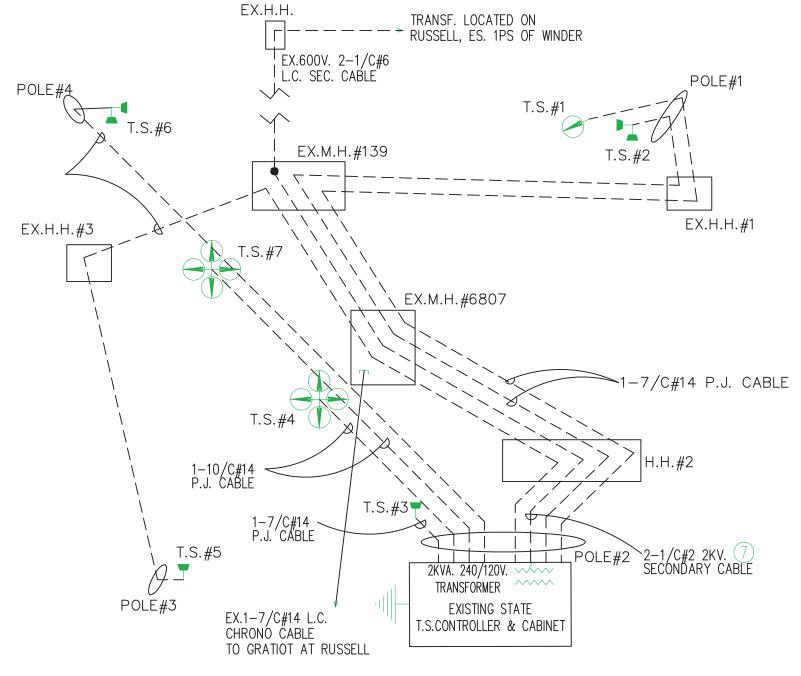
DRWG NO.

JOB NO. 00000 x

E-C4.6





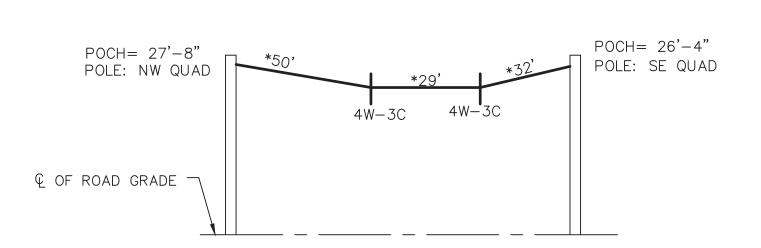


WIRING DIAGRAM

NOT TO SCALE

#### NOTES:

- 1. THE WORK SHOWN ON THESE PLANS IS TO RELOCATE AND/OR REALIGN EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC SIGNAL HEADS ON EXISTING SPAN WIRE OR PEDESTAL AS SHOWN. THE COST OF LABOR, EQUIPMENT, AND MATERIALS TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TS, FOUR WAY SPAN WIRE MTD, SALV.
- 2. CONTACT JUBI CHACKUNKAL OR SUNNY JACOBS OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING AT (313) 224-1315 OR (313) 628-5604, 48 HOURS PRIOR TO ACTIVATION OF ADJUSTED T.S.



#### (THRU) SPAN CALCULATIONS

NOT TO SCALE

	8200208
OF	

PAY ITEM

CODE.

8200182

LIST OF MATERIALS

TS, Span Wire Mtd, Rem

TS, Four Way Span Wire Mtd, Salv

ITEMS

NOTE:
POCH (POLE CONTACT HEIGHT) IS SHOWN ABOVE CENTERLINE O
ROAD GRADE, FIELD ADJUSTMENTS ARE TO BE MADE FOR ANY
DIFFERENCE IN GRADE AT POLE VS. ROAD GRADE.

\* SPAN LENGTHS ARE APPROXIMATE AND MAY NEED TO BE FIELD ADJUSTED TO ACHIEVE THE REQUIRED OFFSETS AS SHOWN AND MAINTAIN MINIMUM UNDERCLEARANCES PER CITY OF DETROIT PUBLIC LIGHTING DEPARTMENT STANDARDS..

## Spalding DeDecker Associates, Inc.



#### Engineering Consultants

Infrastructure • Land Development • Surveying

905 South Blvd. East Rochester Hills, MI 48307 Phone: (248) 844-5400 Fax: (248) 844-5404

1435 Randolph, Suite 404 Detroit, MI 48226 Phone: (313) 967-4700 Fax: (313) 967-4707

107 South Main Street Plymouth, MI 48170 Phone: (734) 455-3111

Fax: (734) 455-3127

#### www.sda-eng.com (800) 598-1600



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PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG.

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SPALDING DEDECKER ASSOCIATES, INC.

EASTERN MARKET
DISTRICT IMPROVEMENTS

TRAFFIC SIGNAL MODIFICATIONS

RUSSELL ST. & FISHER FWY. N. SERV. DR.

TOWN - RANGE -

QTY

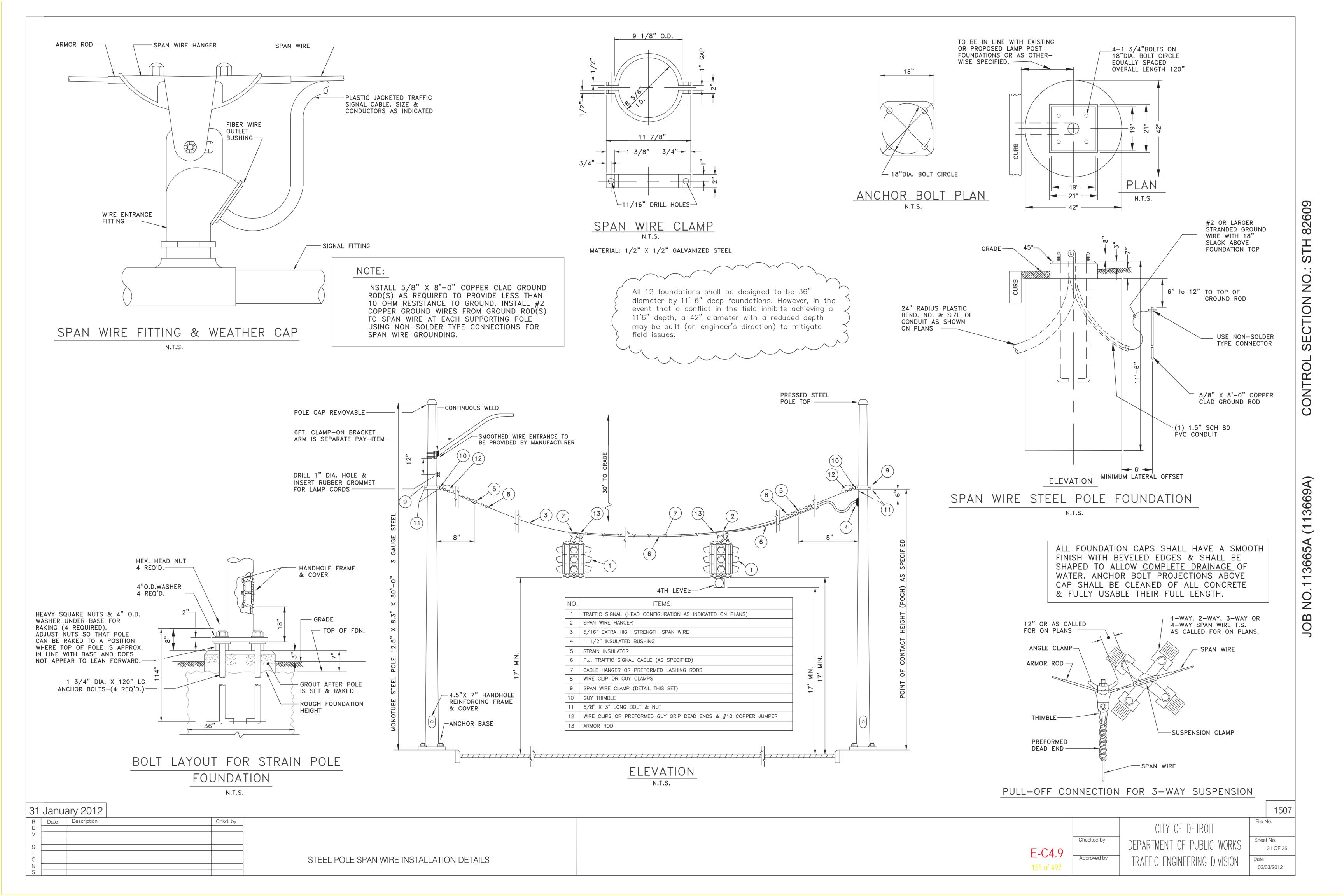
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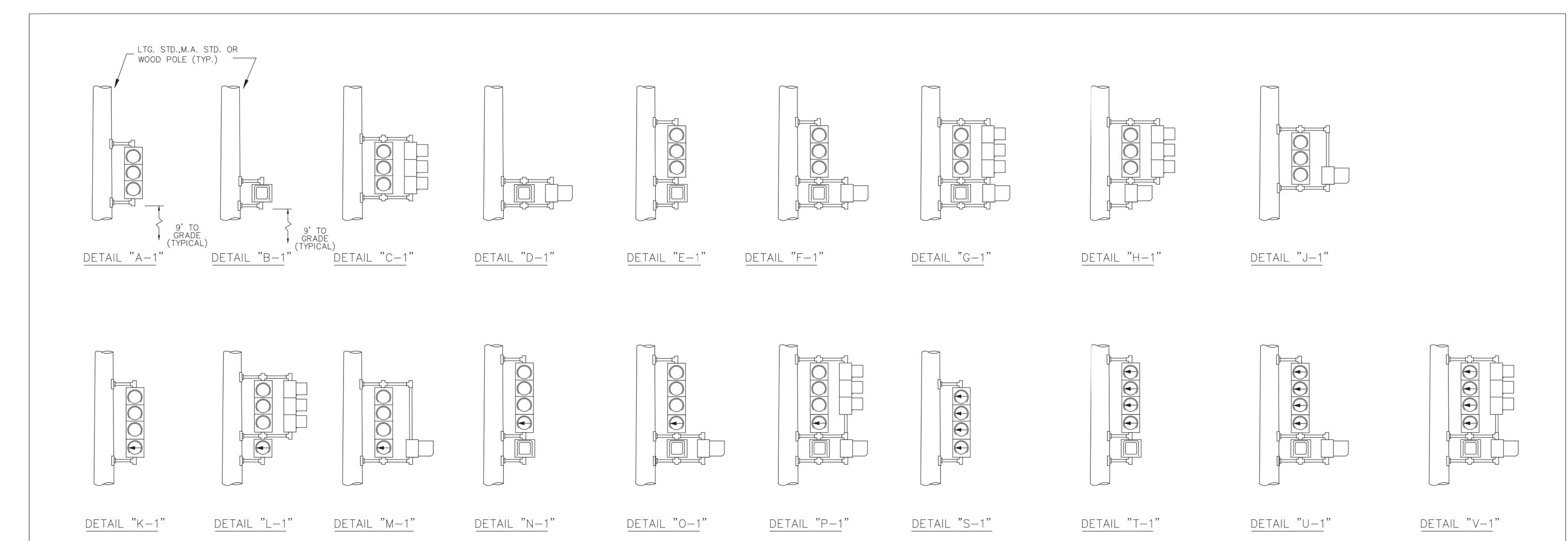
WAY	NE COUNTY	
NO.	DATE	REVISION
_		_

DRAFTI M T	ER		SUBMITTAL DATE: 01-03-13
DESIGN DF	ER		01-03-13
CHECK DF	ED		
PROJEC DE	CT MANAGER		
DEPTAI	RTMENT MANAGE	₹	

VERIFY SCALES	
BAR IS ONE INCH ON ORIGINAL DRAWING	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
CITY JOB NO. DRAWING NO.	







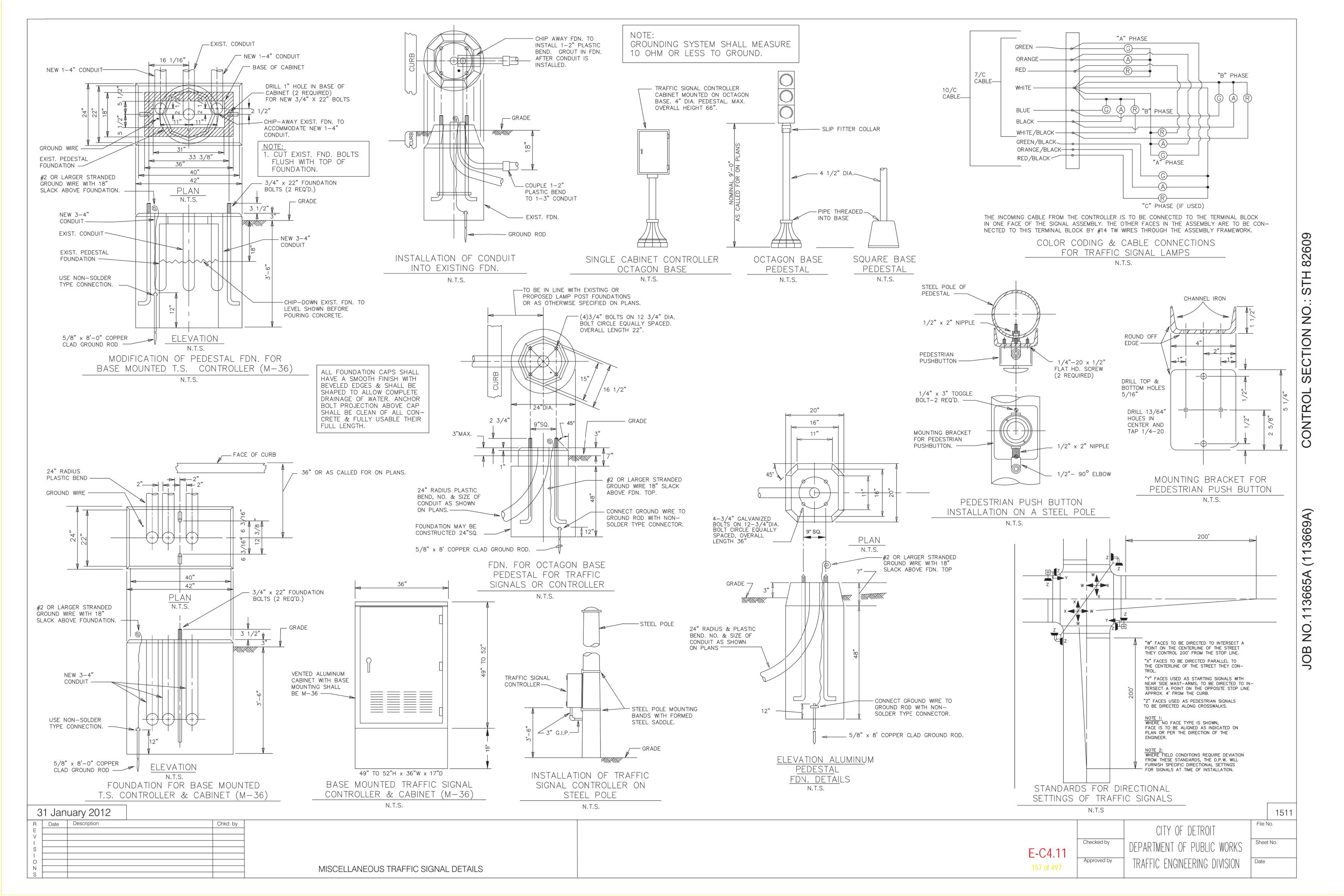
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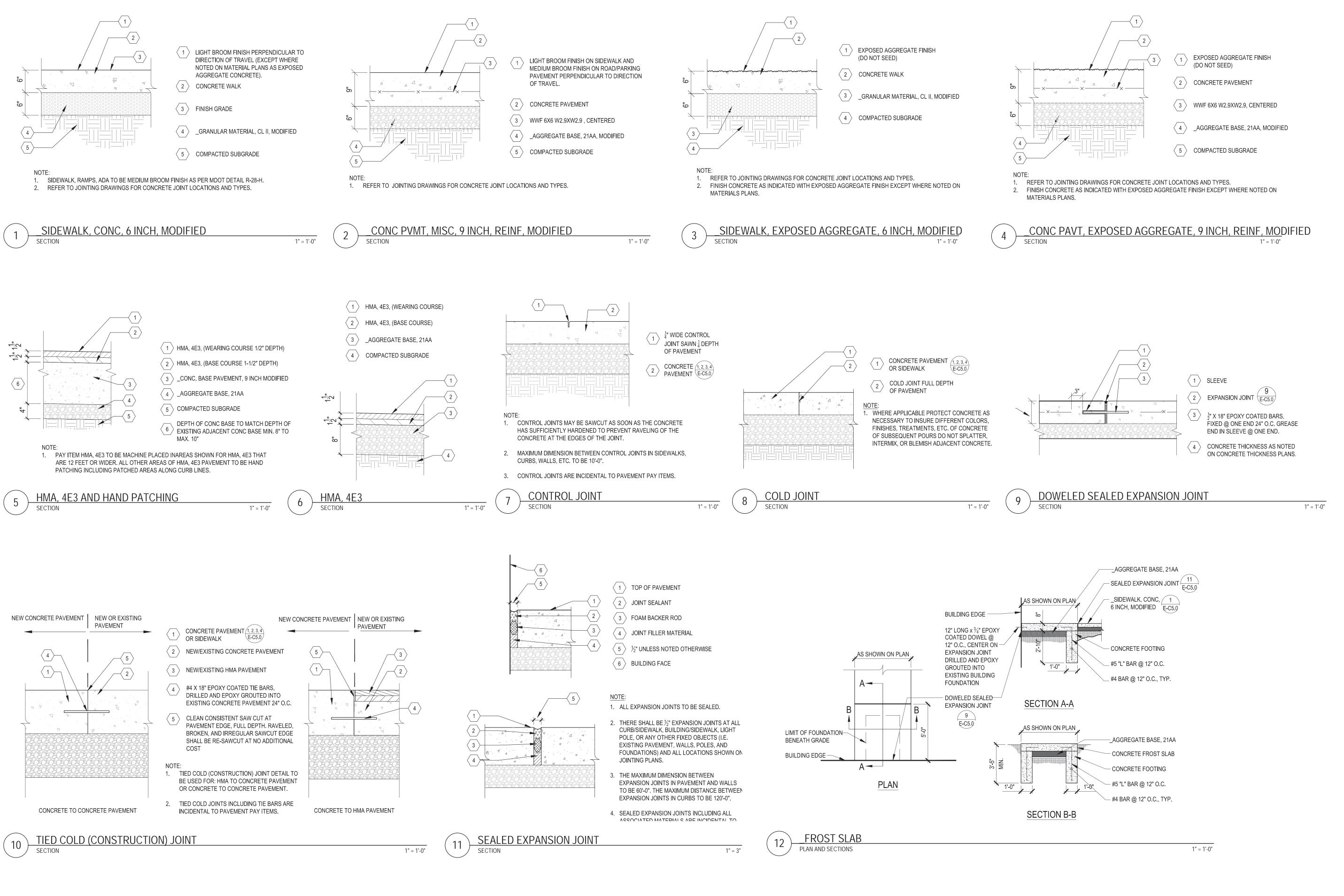
THE RELATIVE POSITION OF 2-WAY T.S. & PEDESTRIAN BRACKET ARM SIGNALS WITHIN THE BRACKET ASSEMBLY SHALL BE REVERSED (I.E. THE SIGNAL NEAREST THE POLE GOES TO THE OUTSIDE OF THE BRACKET ASSEMBLY & THE OUTSIDE SIGNAL GOES INBOARD OR NEAREST TO POLE) ACCORDING TO THE PLAN VIEW TO PROVIDE CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

#### NOTE:

PIPE ASSEMBLY SHALL BE OF SUCH LENGTH AND HEIGHT AS TO ACCOMMODATE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS FOR PROPER MAIN—TENANCE AND CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

16	6 March 2012				1508
R E V	Date Description	Chkd. by			Checked by DETROIT File No.
S   _			TRAFFIC SIGNAL	E-C4.10	DEPARTMENT OF PUBLIC WORKS  32 OF 35  TD A ELIC ENCINEEDING DIVISION Date
N S			BRACKET ARM ASSEMBLY DETAILS	156 of 497	IRAFFIC ENGINEERING DIVISION Date 02/03/2012





District Improvements

Eastern Market
Detroit, Michigan

Michigan Department of Transportation

Eastern Market

Owners:





### **SMITHGROUP JJR**

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	ISSUED FOR	REV	DATE
	BIDDING DOCUMENTS	5	MAY.21.2013
	BIDDING DOCUMENTS	4	MAY.02.2013
_	100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
П	GRADE INSPECTION	2	JAN.30.2013
	80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
	50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

PROJECT NORTH

PAVEMENT DETAILS 1

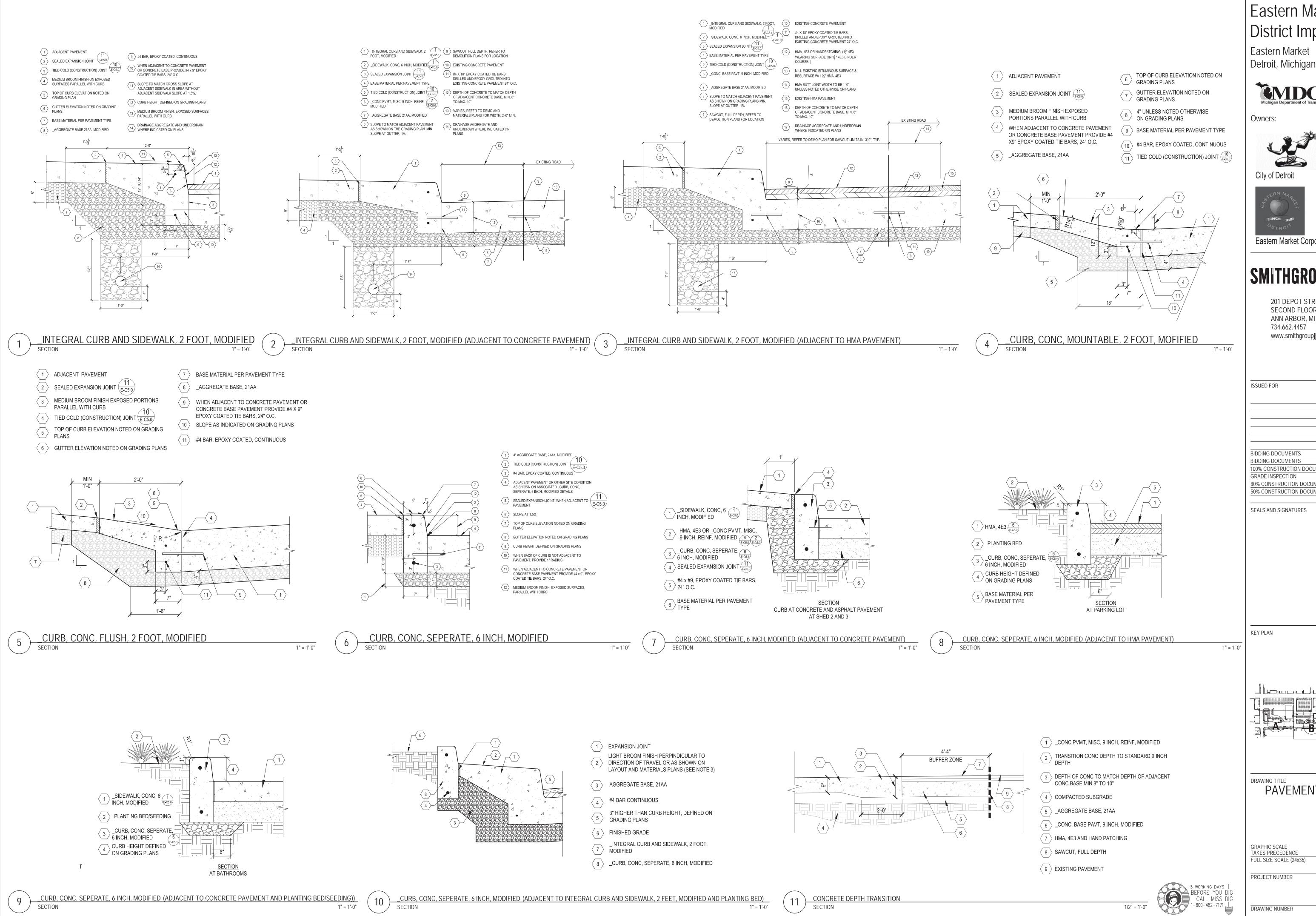
GRAPHIC SCALE TAKES PRECEDENCE
FULL SIZE SCALE (24x36)

PROJECT NUMBER

E-C5

158 of 497

3 WORKING DAYS |
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171 |









Eastern Market Corporation

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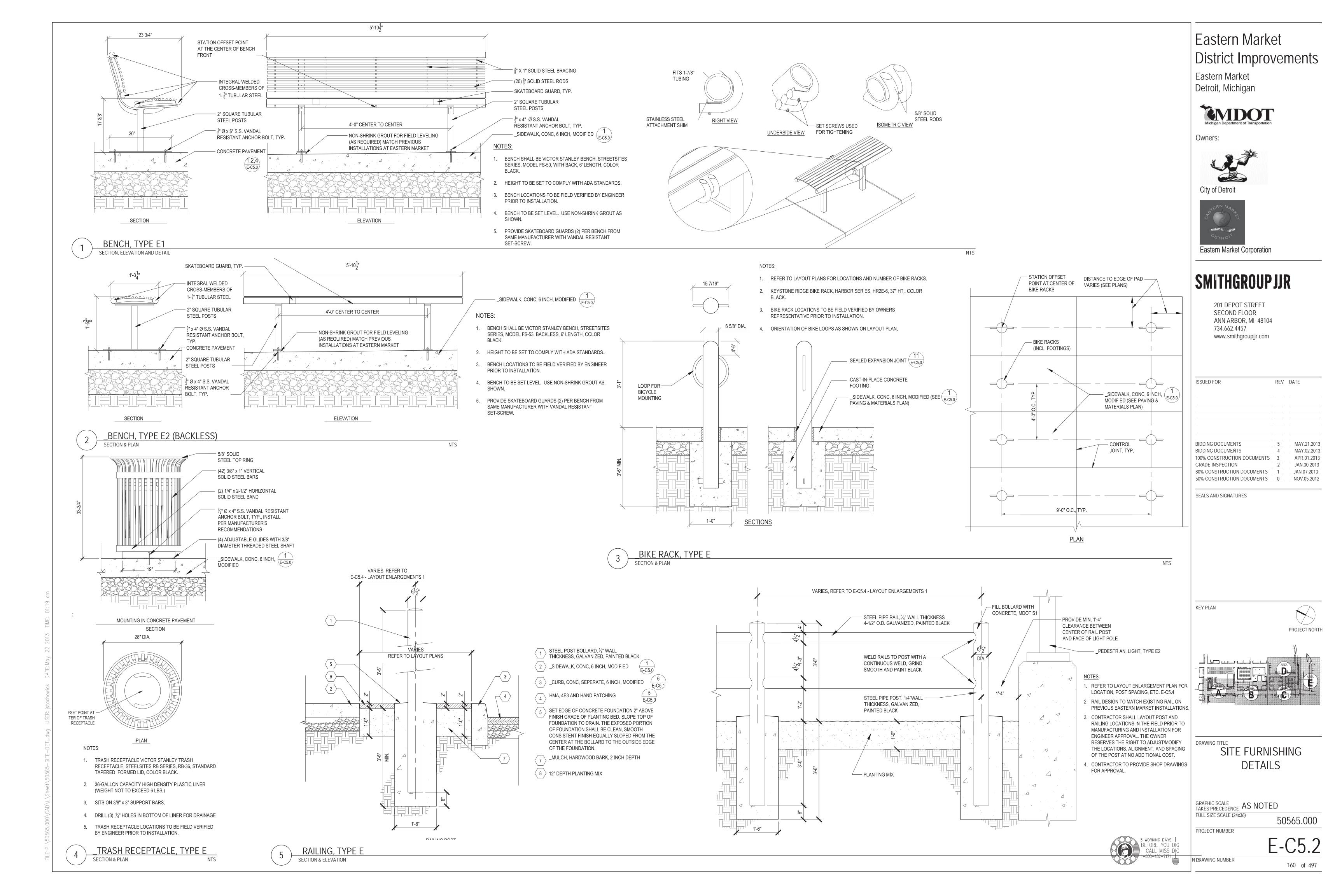
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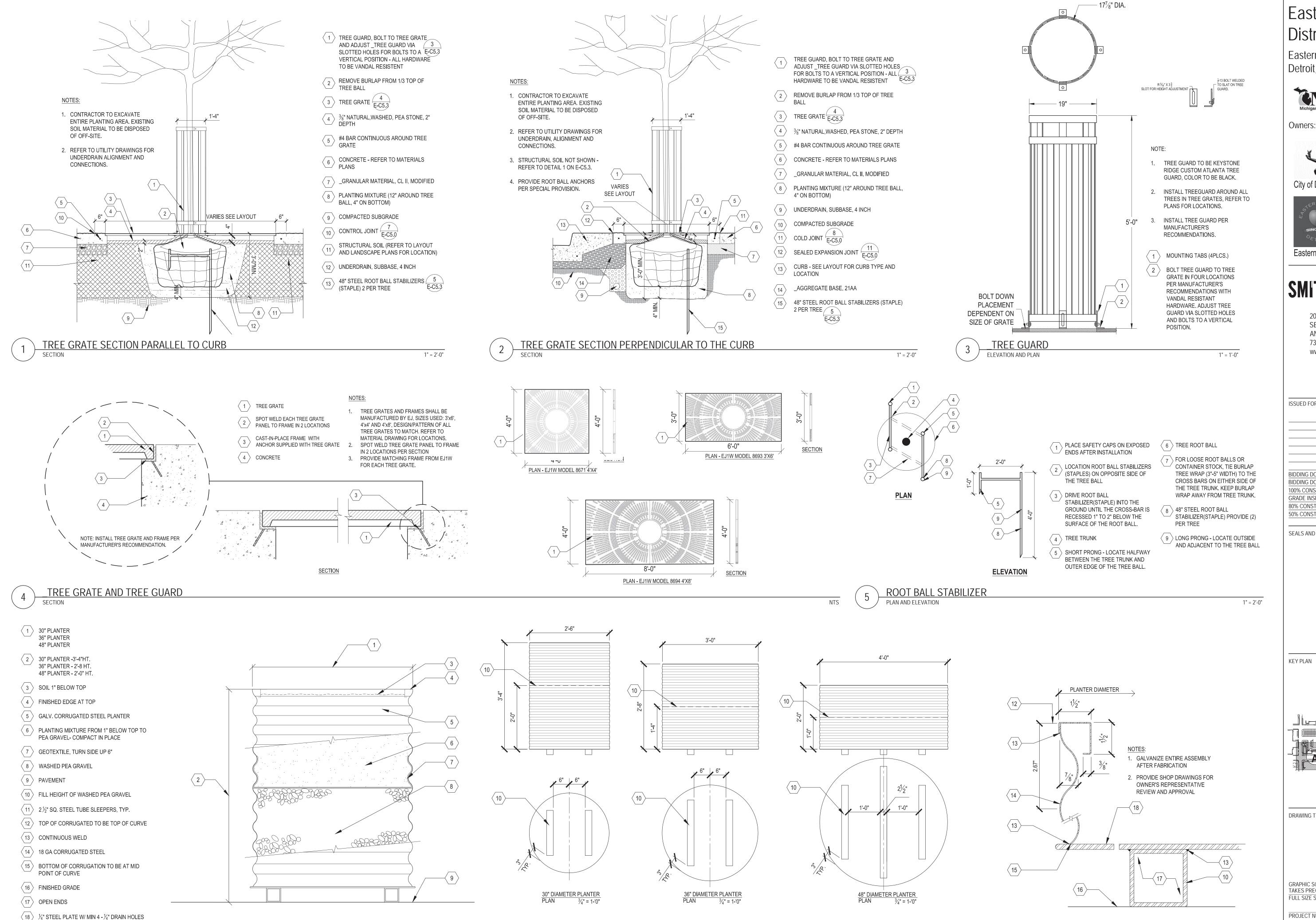
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BIDDING DOCUMENTS	5	MAY.21.201
BIDDING DOCUMENTS	4	MAY.02.201
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

PROJECT NORTH

PAVEMENT DETAILS 2

50565.000





Eastern Market Detroit, Michigan



Owners:





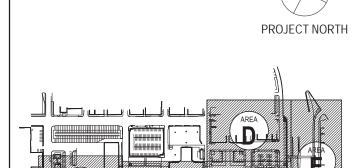
Eastern Market Corporation

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SEALS AND SIGNATURES



DRAWING TITLE SITE FURNISHING **DETAILS** 

GRAPHIC SCALE AS NOTED FULL SIZE SCALE (24x36)

3 WORKING DAYS BEFORE YOU DIG

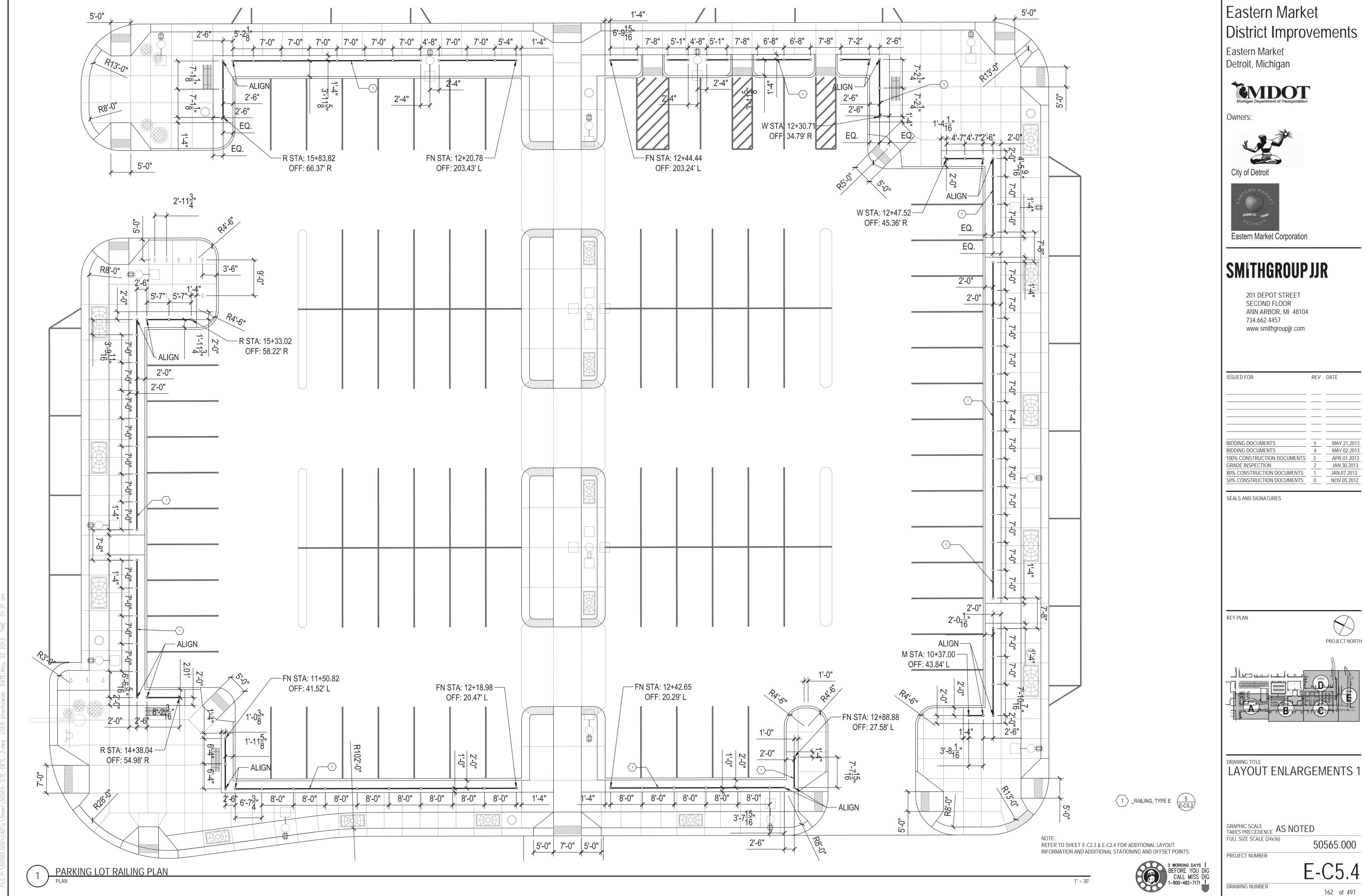
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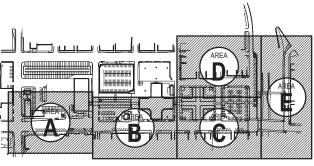
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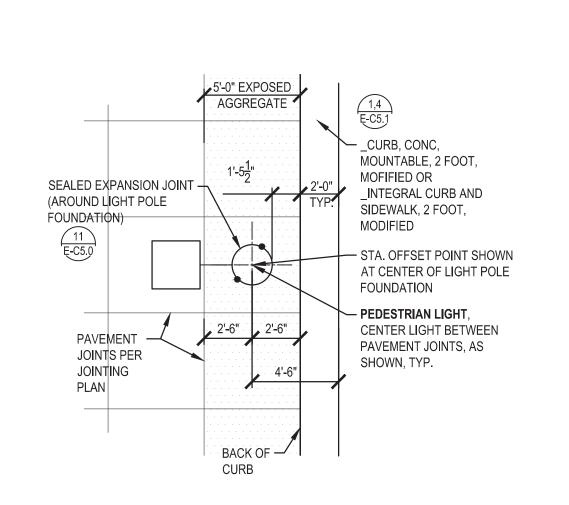
PLANTER, TYPE E (30 INCH, 36 INCH, 48 INCH) **ELEVATION & SECTION** 

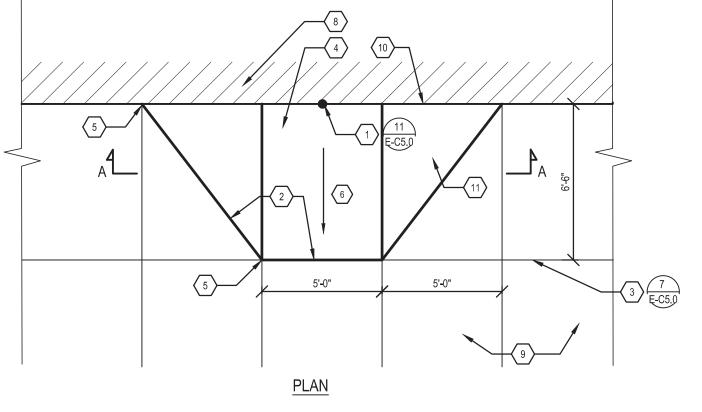


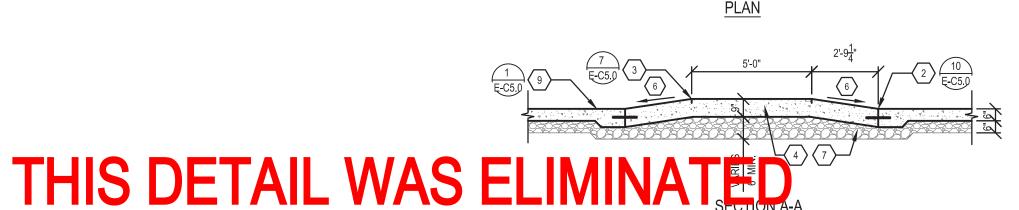
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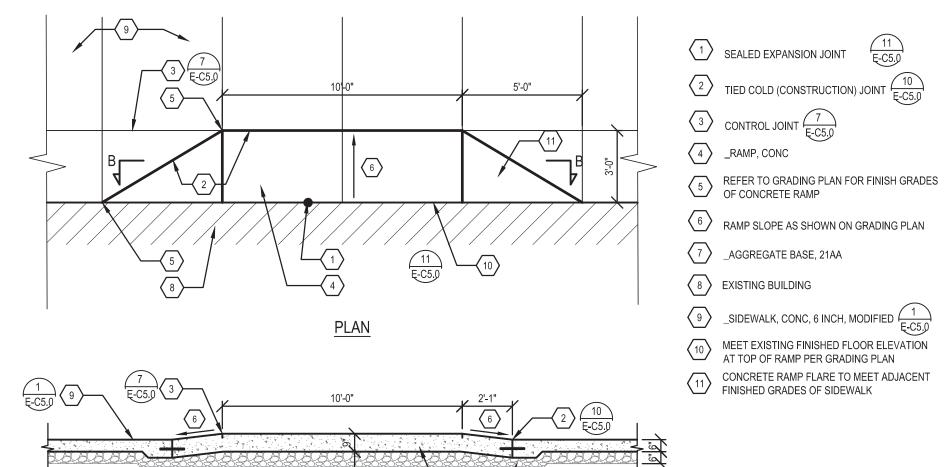
PROJECT NORTH











SECTION B-B CENTER OF RAMP-2 AT STA 18+32.55 ON RUSSELL STREET

- TIED COLD (CONSTRUCTION) 8 E-C5.0

── ALLEY ──

TYPICAL LIGHT POLE LOCATION

1" = 5'-0"

CENTER OF RAMP-1 AT STA 12+63.74 ON MARKET STREET

(1)6" RADIUS TYP.

2 SEE 'POST CONNECTION DETAIL'

 $\sqrt{3}$ 2" DIA. POST TYP.

 $\sqrt{4}$ 1-1/2" DIA. RAIL TYP.

5 RAIL EXP. JT. (CENTER POINT OF RAILING)

6 AGGREGATE BASE, 21AA

7 FOR FINISHED GRADE ELEVATIONS OF RAMP AND STEP REFER TO GRADING PLAN

8 VAULT, SEE VAULT DETAILS (A/1/2) E-C5.8

9 EMBED POST MIN. 6" INTO CONC WITH NON-SHRINK GROUT

(10) FINISH GRADE

(11) COMPACTED SUBGRADE

(12) CONTROL JOINT (7) E-C5.0

(13) SEALED EXPANSION JOINT (11) E-C5.0

(14) WWF 6x6 W6.0xW6.0 CENTERED  $\langle 15 \rangle$  \_RAMP, CONC, MODIFIED

PAVED HORIZONTAL SURFACES OF RAMP AND LANDINGS TO BE MEDIUM BROOM

FINISH PERPENDICULAR TO PEDESTRIAN

17 \_SIDEWALK, CONC, 6 INCH, MODIFIED  $\frac{1}{\text{E-C5.0}}$ 

\_SIDEWALK, EXPOSED AGGREGATE, 6 INCH, MODIFIED

\_CONC PVMT, MISC, 9 INCH, REINF, \_E

CONC PAVT, EXPOSED AGGREGATE, 9

INCH, REINF, MODIFIED

OUTSIDE EDGE OF UNDERGROUND VAULT GRADE BEAM, RAMP PAVEMENT JOINTS, AND SIDEWALK PAVEMENT JOINTS TO BE ALIGNED HORIZONTALLY AND VERTICALLY

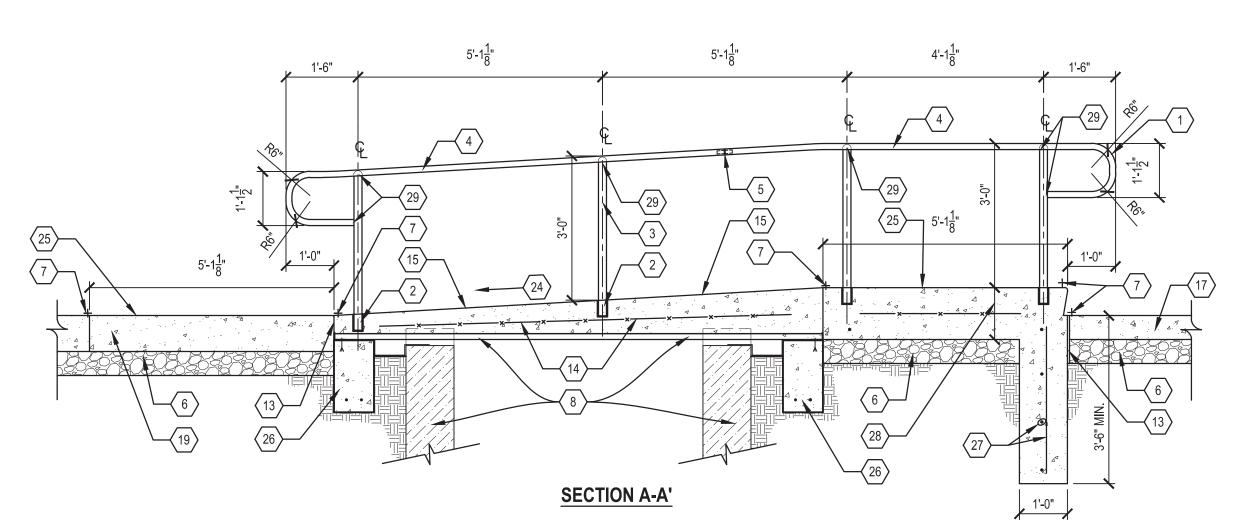
23 EDGE OF EXISTING BUILDING

RAMP LANDING TO BE MIN. OF 5'-0" x 5'-0" CLEAR WITH A MAX, CROSS-SLOPE IN ANY DIRECTION OF 2% AND MIN. SLOPE OF 1%.

RAMP TO BE SLOPED AS INDICATED ON  $\binom{24}{}$  GRADING PLAN. MAX. SLOPE OF 8%.

(26) UNDERGROUND GRADE BEAM FOR VAULT (A/1/2)(27) #4 BAR, 12" O.C., EACH WAY

DEPTH OF CONC TO BE SET AT TOP OF UNDERGROUND GRADE BEAM FOR VAULT



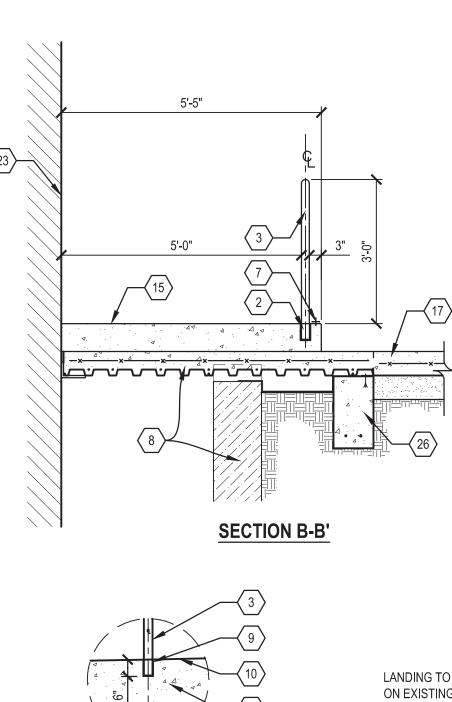
1. RAILING TO BE PAID AS \_HAND RAIL, TYPE E.

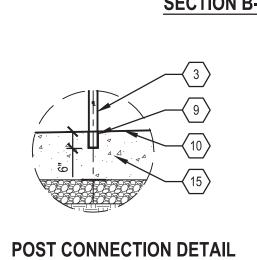
2. RAIL HEIGHT MUST BE AT 36" FROM TOP OF PVMT TO THE TOP OF

3. PROVIDE COMPLETE SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION. FIELD MEASURE RAILING LOCATION PRIOR TO SHOP DRAWING SUBMITTAL.

4. RAILING POSTS TO BE SET VERTICAL PLUMB AND HORIZONTAL RAILS TO BE PARALLEL WITH RAMP AND STAIRS AS SHOWN.

- 5. POSTS AND RAILS TO BE GALVANIZED STEEL TUBING HSS 1.90 x 0.145,
- 6. RAILING COLOR AND FINISH: REFER TO SPECIAL PROVISIONS FOR
- COORDINATE RAMP CONSTRUCTION WITH VAULT DETAILS.
- 8. RAMP AND ASSOCIATED LANDINGS TO BE MEDIUM BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.





CONTINUOUS WELD GROUND SMOOTH AND PAINTED \_INTEGRAL CURB -AND SIDEWALK, 2 FOOT, MODIFIED BACK OF CURB — - COLD JOINT  $\frac{8}{\text{E-C5.0}}$ LANDING TO BE CENTERED -ON EXISTING DOORWAY AS SHOWN

> - EDGE OF STEP, REFER TO GRADING PLANS FOR TOP OF STEP AND BOTTOM OF STEP - EXPOSED VERTICAL SURFACES OF RAMP TO BE SMOOTH FINISH WITHOUT IMPERFECTIONS,

CHIPS, MARKS, AND HONEYCOMB 3 WORKING DAYS | BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 |

— ALLEY APPROACH —

E-C5.7

### Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

#### **SMITHGROUP JJR**

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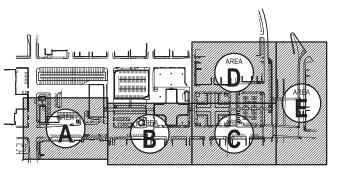
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SEALS AND SIGNATURES

TRANSITION

KEY PLAN

PROJECT NORTH

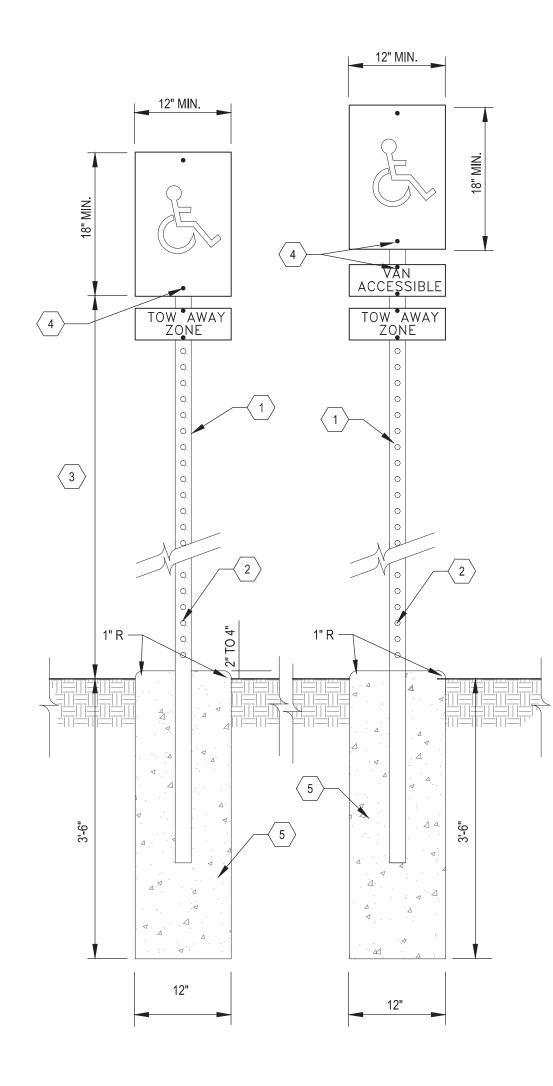


LAYOUT ENLARGEMENTS 2

GRAPHIC SCALE AS NOTED FULL SIZE SCALE (24x36) 50565.000

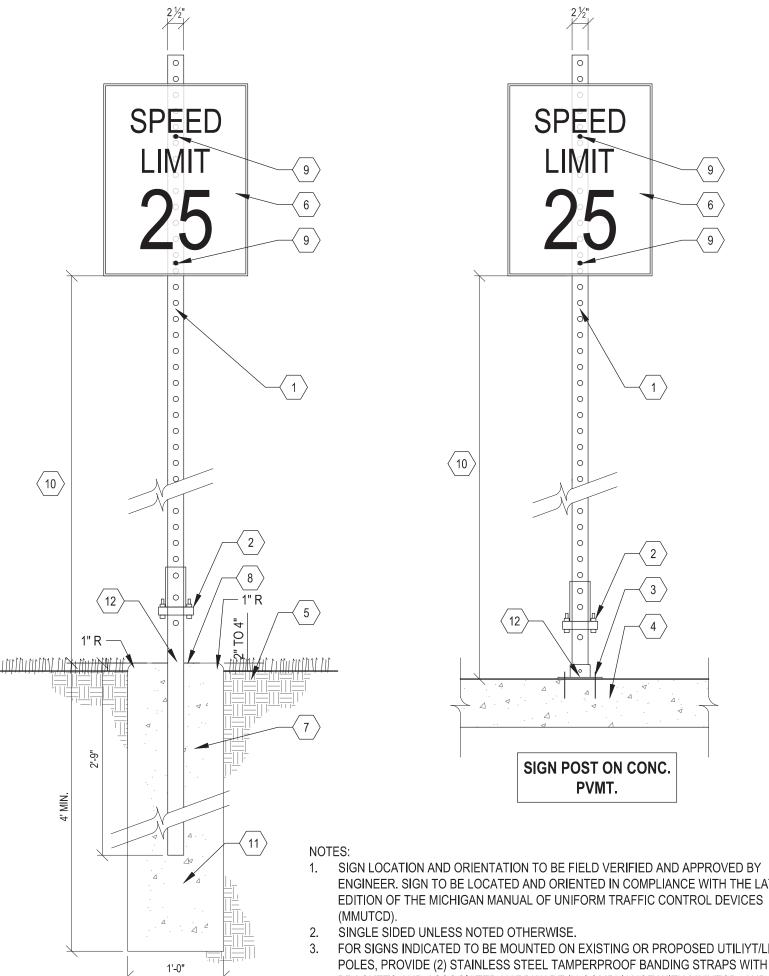
PROJECT NUMBER

DRAWING NUMBER



#### NOTES:

- 1. BARRIER FREE PARKING SIGN SHALL BE PROVIDED FOR EACH BARRIER FREE PARKING STALL INDICATED ON DRAWINGS.
- 2. ALUMINUM SIGN SHALL BE .80 GAUGE STOCK, MEASURING 12"x18" BAKED ENAMEL FINISH WITH WHEELCHAIR LOGO AND LETTERING INDICATING RESERVED PARKING.
- 3. ANCHOR POST IN CONCRETE FOUNDATION
- 4. SPACES LABELED AS 'VAN ONLY' SHALL HAVE AN ADDITIONAL SIGN MOUNTED BELOW THE BARRIER FREE PARKING SIGN DESIGNATING SPACE AS SUCH.
- 5. SIGN LOCATIONS AND ORIENTATION TO BE FIELD VERIFIED BY ENGINEER PRIOR TO INSTALLATION.
- 6. SEE SIGNAGE AND STRIPING PLANS FOR EXACT SIGNAGE LOCATIONS.
- 7. SINGLE SIDED UNLESS NOTED OTHERWISE.
- 8. GRAPHICS, TEXT, AND COLORS SHALL BE IN ACCORDANCE WITH LATEST EDTION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- $2\frac{1}{2}$ " X  $2\frac{1}{2}$ "X10Ga. GALVANIZED STEEL (1) PERFORATED SQUARE TUBULAR SIGN POST. (PERFORATIONS TO BE 7/16" DIA.) HEIGHT AS REQUIRED TO ACCOMMODATE MOUNTING HEIGHT AND SIGN SIZE. POST PER MDOT DETAIL SIGN-207A.
- 4 ANCHOR BREAKAWAY ASSEMBLY TO CONCRETE PAVEMENT WITH 5/8" GALVENIZED ANCHOR BOLTS WITH MIN. 4" EMBEDMENT (4 PER POST) PER MDOT REQUIREMENTS.
- MIN. 7'-0" FOR SINGLE SIGN, IF SUPPLEMENTARY SIGN IS MOUNTED BELOW. MINIMUM OF 8'-0" TO BOTTOM OF HIGHER SIGN, 5'-0" TO BOTTOM OF LOWER
- 4 ATTACH SIGN TO POST WITH GALVANIZED TAMPERPROOF U-POST HARDWARE PER MDOT AND MMUTCD REQUIREMENTS LOCATE ATTACHMENT POINTS OUTSIDE OF TEXT/GRAPHICS AND PAINT HARDWARE TO MATCH SIGN.
- 5 CONCRETE FOOTING
- TOP OF FOUNDATION TO BE SMOOTH, CONSISTENT, FINISH WITHOUT IRREGULARITIES. SLOPE TOP OF FOUNDATION EVENLY FROM THE POST AT THE CENTER TO THE OUTSIDE



1. SIGN LOCATION AND ORIENTATION TO BE FIELD VERIFIED AND APPROVED BY ENGINEER. SIGN TO BE LOCATED AND ORIENTED IN COMPLIANCE WITH THE LATEST

- FOR SIGNS INDICATED TO BE MOUNTED ON EXISTING OR PROPOSED UTILIYT/LIGHT POLES, PROVIDE (2) STAINLESS STEEL TAMPERPROOF BANDING STRAPS WITH BRACKETS AND ASSOCIATED HARDWARE IN COMPLIANCE WITH MMUTCD, AND MDOT REQUIREMENTS AND STANDARDS.
- 4. ANY SIGN GREATER THAN 36 INCHES IN WIDTH SHALL BE INSTALLED WITH 2 POSTS. 5. ORIENT BREAKAWAY ASSEMBLY PER MDOT DETAIL SIGN-207-A 6. ALL HARDWARE TO BE GALVANIZED AND TAMPERPROOF.

HEIGHT AND SIGN SIZE. POST PER MDOT DETAIL SIGN-207-A. BREAKAWAY ASSEMBLY PER MDOT DETAIL 2 SIGN-207-A.

1 2½ " X 2½"X 10Ga. GALVANIZED STEEL

PERFORATED SQUARE TUBULAR SIGN POST.

(PERFORATIONS TO BE  $\frac{7}{16}$ " DIA.) HEIGHT AS

REQUIRED TO ACCOMMODATE MOUNTING

- 3 ANCHOR BREAKAWAY ASSEMBLY TO CONCRETE PAVEMENT WITH 5/8" GALVANIZED ANCHOR BOLTS WITH MIN. 4" EMBEDMENT (4 PER POST) PER MDOT REQUIREMENTS.
- 5 FINISH GRADE
- 6 TRAFFIC SIGN SIGN GRAPHICS, TEXT, COLORS, AND SIZE AS INDICATED ON SIGNAGE PLANS. TRAFFIC SIGN TO MATCH EXISTING SIGN WHERE APPLICABLE WHEN USED AS A REPLACEMENT. TRAFFIC SIGN SHALL BE IN ACCORDANCE WITH THE CITY OF DETROIT TRAFFIC ENGINEERING DIVISION STANDARDS AND THE LATEST EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
- 7 CONCRETE FOOTING CONCRETE FOR BREAKAWAY COLUMN FOOTINGS MUST BE GRADE M AS SPECIFIED IN SECTION 601 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. CONCRETE SHALL BE USED AND PLACED AGAINST UNDISTURBED SOIL IN AN AUGURED HOLE. THE STEEL ANCHOR SHALL BE HELD IN CORRECT POSITION WITH A TEMPLATE UNTIL THE CONCRETE HAS PROPERLY SET.
- (8) TOP OF FOUNDATION TO BE SMOOTH AND CONSISTENT FINISH WITHOUT IRREGULARITIES. SLOPE TOP OF FOUNDATION EVENLY FROM THE POST AT THE CENTER TO THE OUTSIDE EDGES FOR DRAINAGE.
- $\left\langle \begin{array}{c} 9 \end{array} \right\rangle$  ATTACH SIGN TO POST WITH GALVANIZED TAMPERPROOF U-POST HARDWARE PER MDOT AND MMUTCD REQUIREMENTS LOCATE ATTACHMENT POINTS OUTSIDE OF TEXT/GRAPHICS AND PAINT HARDWARE TO MATCH SIGN.
- MIN. 7'-0" FOR SINGLE SIGN, IF SUPPLEMENTARY SIGN IS MOUNTED BELOW, MINIMUM OF 8'-0" TO BOTTOM OF HIGHER SIGN, 5'-0" TO BOTTOM OF LOWER SIGN.
- 3"X3"X7 Ga. GALVANIZED STEEL TUBULAR INSERT ANCHOR FOR CONCRETE FOOTINGS PER MDOT DETAIL SIGN-207-A.
- STATION OFFSET POINT SHOWN ON LAYOUT PLANS AT CENTER OF POST.

**ADA PARKING SIGN** 

SIGN POST IN

LAWN

NTS

#### Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

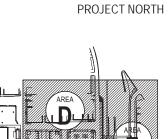
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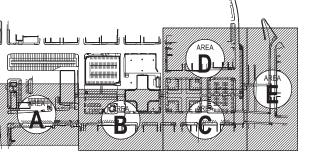
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50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN





DRAWING TITLE SIGNAGE AND STRIPING **DETAILS** 

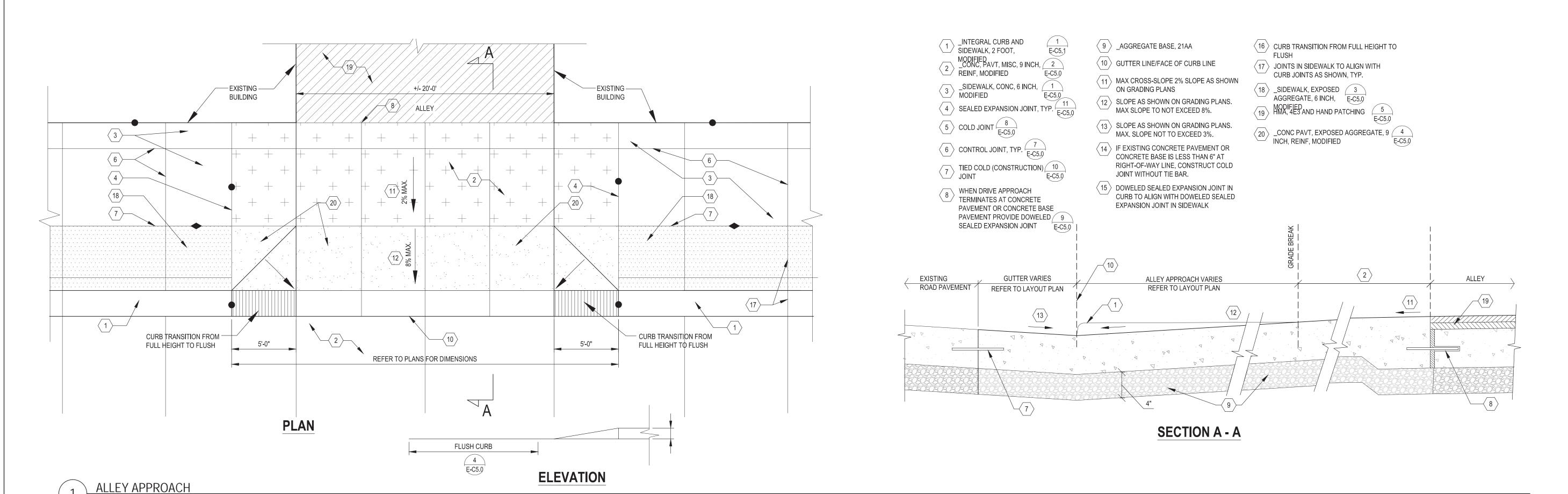
GRAPHIC SCALE AS NOTED FULL SIZE SCALE (24x36)

PROJECT NUMBER

50565.000

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LIMITS OF CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED LIMITS OF CONC, PAVT, MISC, 9 INCH, REINF, MODIFIED VARIES PER LAYOUT PLAN AS SHOWN ON LAYOUT AND MATERIALS PLAN AS SHOWN ON LAYOUT AND MATERIAL PLANS 16 IF EXISTING CONCRETE PAVEMENT OR CONCRETE BASE IS LESS THAN 6" AT 9 EXISTING CONCRETE OR HMA PAVEMENT (1) \_INTEGRAL CURB AND (21) RADIUS AS SHOWN ON LAYOUT PLANS SIDEWALK, 2 FOOT, (10) \_AGGREGATE BASE, 21AA  $\langle$  22  $\rangle$  JOINTS IN SIDEWALK TO ALIGN WITH MODIFIED \_CONC PVMT, MISC, 9 INCH, REINF, MODIFIED RIGHT-OF-WAY LINE, CONSTRUCT COLD CURB JOINTS AS SHOWN, TYP. JOINT WITHOUT TIE BAR. (11) GUTTER LINE/FACE OF CURB LINE JOINTS TO ALIGN WITH CENTER POINTS AS SHOWN, TYP. (17) SEALED EXPANSION JOINT IN CURB TO \_SIDEWALK, CONC, 6 INCH, EXTEND CONCRETE TO R.O.W. LINE AT A MINIMUM UNLESS SHOWN OTHERWISE ON  $^\prime$  MODIFIED AS INDICATED ON  $^{\circ}$ E-C5.0 $^{\circ}$ ALIGN WITH SEALED EXPANSION JOINT IN SIDEWALK 11 CONCRETE THICKNESS PLANS LAYOUT AND MATERIALS PLAN 2 <u>6</u> (13) MAX CROSS-SLOPE 2% SLOPE AS SHOWN E-C5.0 4 SEALED EXPANSION JOINT, TYP. ON GRADING PLANS \_HAND PATCHING OR \_CONC PVMT, MISC, 5
9 INCH, REINF, MODIFIED AS INDICATED
E-C5.0
E-C5.0  $\langle$  14 $\rangle$  SLOPE AS SHOWN ON GRADING PLANS. TIED COLD (CONSTRUCTION) (5 JOINT MAX SLOPE TO NOT EXCEED 8%. 3 ON CONCRETE THICKNESS PLANS 15 SLOPE AS SHOWN ON GRADING PLANS.  $\left\langle \begin{array}{c} 6 \end{array} \right\rangle$  CONTROL JOINT, TYP.  $\left\langle \begin{array}{c} \prime \\ \hline \mbox{E-C5.0} \end{array} \right\rangle$ MAX. SLOPE NOT TO EXCEED 3%. 19 CONTROL JOINTS LOCATED AS SHOWN ON JOINTING PLANS  $\langle$  7  $\rangle$  MEET EXISTING GRADE AS SHOWN ON TAPER CURB TO 0" TO MEET WITH CURB TRANSITION FROM FULL HEIGHT TO FLUSH GRADING PLANS SIDEWALK GRADE TERMINATES AT CONCRETE PAVEMENT OR CONCRETE BASE PAVEMENT PROVIDE DOWELED 9 SEALED EXPANSION JOINT Ę-C5.0  $\langle 12 \rangle$ **EXISTING PAVEMENT** ROAD PAVEMENT REFER TO LAYOUT PLAN REFER TO LAYOUT PLAN **15** REFER TO LAYOUT PLANS FOR DIMENSIONS <u>KEFER TO LAYO</u>UT PLANS FOR DIMENSIONS **SECTION A - A CURB TRANSITION** FULL HEIGHT CURB FROM FULL HEIGHT TO FLUSH AS NOTED ON GRADING PLANS

**CURB PROFILE** 

**PLAN** 

DRIVEWAY APPROACH

SECTION & PLAN

## Eastern Market District Improvements

Eastern Market
Detroit, Michigan



Owners:







**Eastern Market Corporation** 

#### **SMITHGROUPJJR**

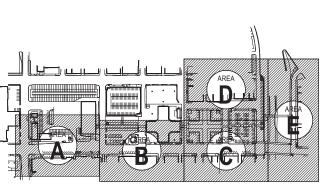
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SEALS AND SIGNATURES

KEY PLAN

PROJECT NORTH



SIGNAGE & STRIPING
DETAILS 2

GRAPHIC SCALE TAKES PRECEDENCE AS NOTED FULL SIZE SCALE (24x36)

PROJECT NUMBER

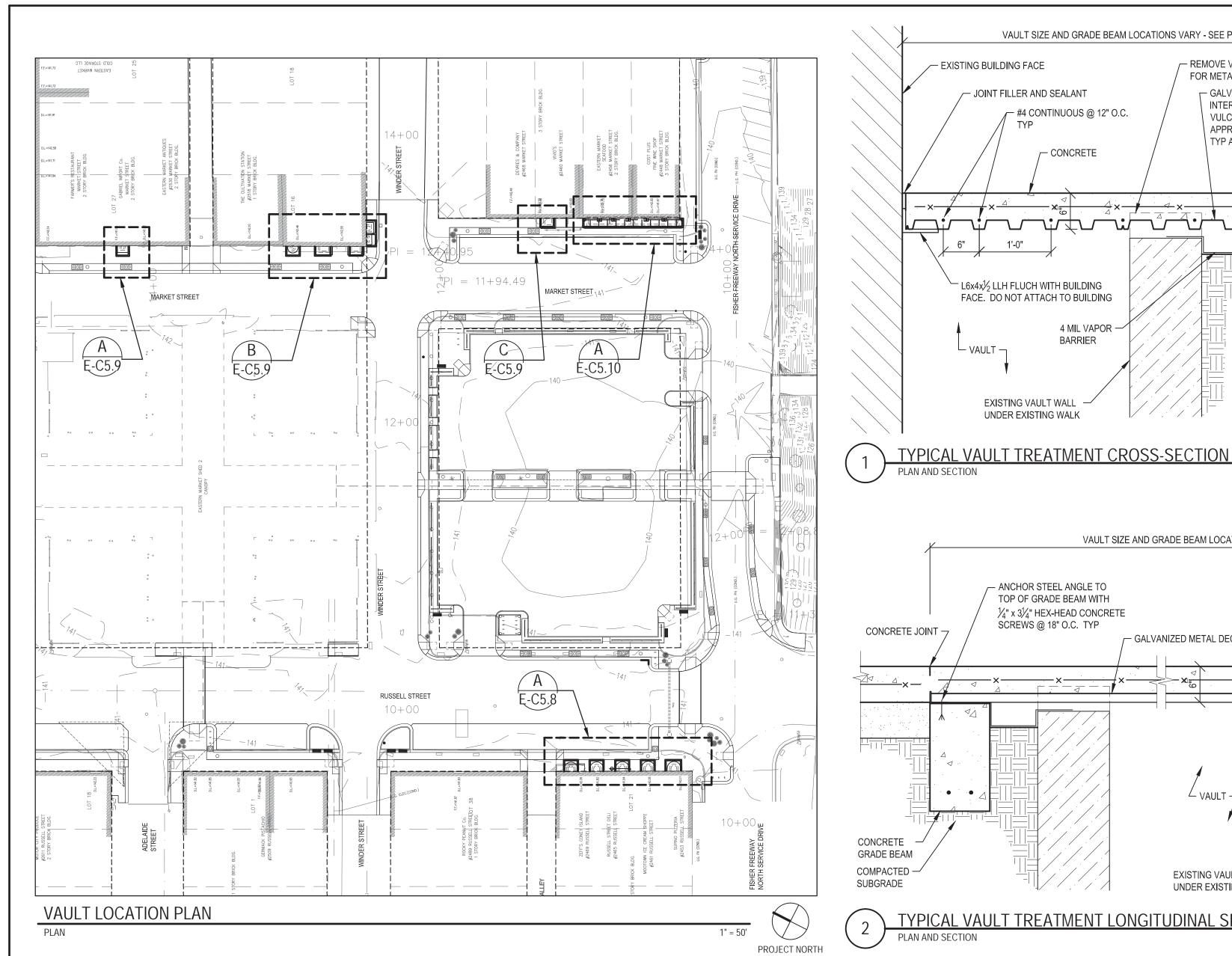
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1/4" = 1'-0"

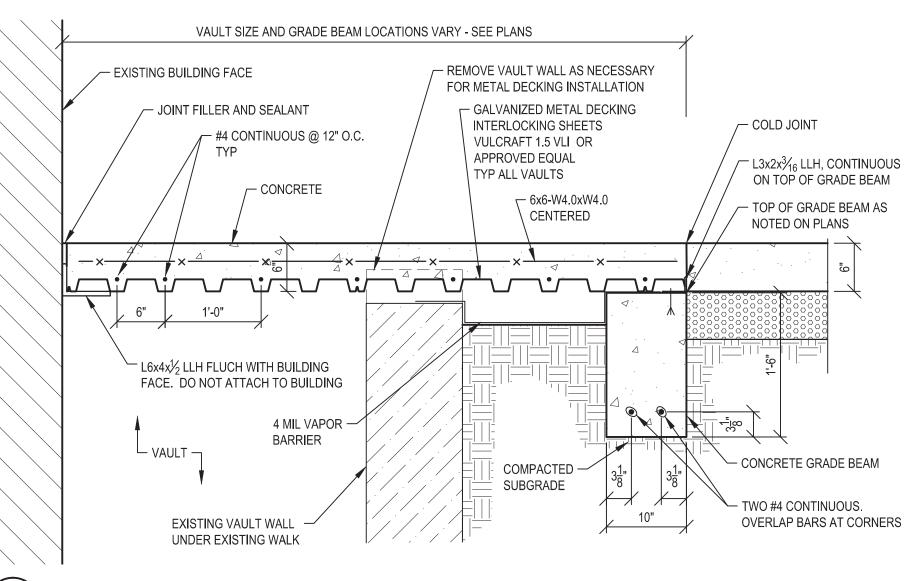
1" = 1'-0"



T/GB 141.14

- UPPER

T/GB\14\1.24



#### VAULT SIZE AND GRADE BEAM LOCATIONS VARY - SEE PLANS - ANCHOR STEEL ANGLE TO - REMOVE VAULT WALL AS - L3x2x $\frac{3}{16}$ LLH, CONTINUOUS TOP OF GRADE BEAM WITH NECESSARY FOR METAL ON TOP OF GRADE BEAM **DECKING INSTALLATION** 1/4" x 31/4" HEX-HEAD CONCRETE SCREWS @ 18" O.C. TYP — 6x6-W4.0xW4.0 - 4 MIL VAPOR BARRIER TOP OF GRADE BEAM AS - GALVANIZED METAL DECKING CENTERED NOTED ON PLANS CONCRETE JOINT VAULT **GRADE BEAM** TWO #4 CONTINUOUS. LAP BARS AT CORNERS

## TYPICAL VAULT TREATMENT LONGITUDINAL SECTION

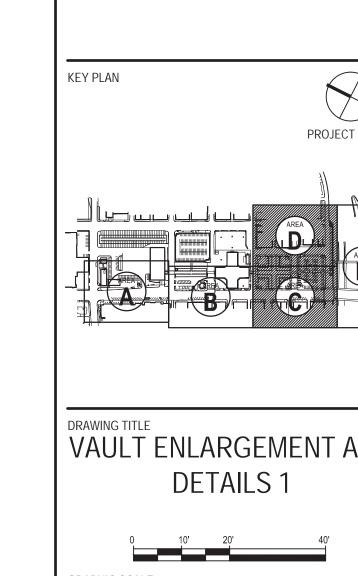
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#### STRUCTURAL DESIGN BASIS:

- 1. MAXIMUM WHEEL LOAD = 1000 LB
- 2. LIVE LOAD = PEDESTRIAN LOADING = 100 PSF.
- 3. DEAD LOAD 65 PSF.
- ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF (FIELD VERIFY).
- MAXIMUM METAL DECKING SPAN = 10'-0".
- 4. PROTECT EXPOSED BASEMENTS AND FOUNDATIONS FROM
- PERFORM MINOR MODIFICATIONS TO EXISTING VAULT WALLS AS NECESSARY FOR INSTALLATION OF STRUCTURAL FRAMING AND METAL DECKING. COORDINATE EXTENTS OF MODIFICATIONS WITH THE BUILDING OWNER.
- SEALED WATER TIGHT.
- 7. PROVIDE A MINIMUM OF 6" CLEAR BETWEEN BOTTOM OF METAL DECKING AND TOP OF SOIL SURFACE IN AREAS BETWEEN EXISTING VAULT WALLS AND GRADE BEAM. PLACE 4 MIL POLYETHYLENE VAPOR BARRIER OVER SOIL SURFACE. SEAL VAPOR BARRIER TO GRADE BEAM AND VAULT WALLS WITH TAPE. SEAL ALL VAPOR BARRIER SEAMS
- 8. BACKFILL GRADE BEAM EXCAVATIONS WITH CLASS II MATERIAL.

#### **VAULT MODIFICATION MATERIALS:**

- METAL DECKING TO BE COMPOSITE, 1.5" x 18 GAGE GALVANIZED STEEL WITH INTERLOCKING SHEETS. DECKING SHALL BE CAPABLE OF SUPPORTING A FULL DEAD LOAD AND LIVE LOAD OF 250 PSF FOR A CLEAR SPAN OF 10'-0". DECKING TO BE VULCRAFT 1.5 VLI OR APPROVED EQUAL.
- 2. STEEL FRAMING (BEAMS, ANGLES AND PLATES) TO BE ASTM A36, GALVANIZED.
- 3. JACK POSTS TO BE FIXED, 3.5" NOMINAL DIAMETER, RATED FOR 15 KIP COMPRESSION LOAD AT 10' HEIGHT
- 4. REINFORCING STEEL TO BE ASTM A615, GRADE 60. REINFORCING BARS IN DECKING SLABS TO BE EPOXY COATED
- 8. PROVIDE AND INSTALL LATERAL SUPPORT STEEL FOR DECKING AS REQUIRED BY DECKING MANUFACTURER FOR SINGLE SPAN CONDITIONS.
- 9. PROVIDE CONSTRUCTION SHORING AS REQUIRED BY



Eastern Market

Eastern Market

Detroit, Michigan

Owners:

City of Detroit

Eastern Market Corporation

**SMITHGROUPJJR** 

201 DEPOT STREET

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REV DATE

MAY.21.2013

MAY.02.2013

SECOND FLOOR ANN ARBOR, MI 48104

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**BIDDING DOCUMENTS** 

GRADE INSPECTION

SEALS AND SIGNATURES

100% CONSTRUCTION DOCUMENTS 3

80% CONSTRUCTION DOCUMENTS

50% CONSTRUCTION DOCUMENTS

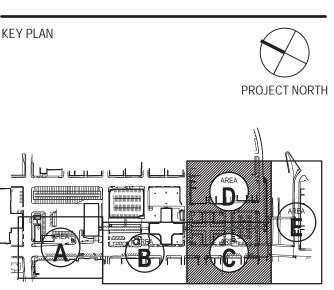
District Improvements

#### **VAULT MODIFICATION NOTES:**

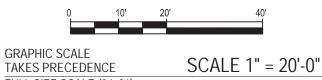
- 1. EXISTING SUB-SLAB UTILITY VAULTS ARE SHOW IN THEIR APPROXIMATE LOCATIONS. ACTUAL LOCATIONS WILL VARY.
- 2. VERIFY THE GRADE BEAM AND DECKING LAYOUTS SHOWN ON THESE PLANS WITH EXISTING UTILITY LINES AND STRUCTURES. REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- COORDINATE VAULT MODIFICATIONS WITH BUILDING OWNER PRIOR TO THE START OF WORK. MAINTAIN PUBLIC ACCESS TO BUILDINGS DURING NORMAL BUSINESS HOURS. PROVIDE FIRM, HARD SURFACE FOR PUBLIC ACCESS.
- WIND, WEATHER AND INSECTS.
- PENETRATIONS OF EXISTING VAULT WALLS ARE TO BE
- WITH TAPE.

- 5. REINFORCING FABRIC IN DECKING (WWM / WWF) TO BE ASTM A185, GALVANIZED.
- 6. CONCRETE FOR GRADE BEAMS AND FOOTINGSTO BE MDOT S1, 4000 PSI.
- CONCRETE IN DECKING TO BE PER SITE CONCRETE MIX REQUIREMENTS. SEE MATERIALS PLANS FOR TYPE AND





**VAULT ENLARGEMENT AND** 



FULL SIZE SCALE (24x36) 50565.000 PROJECT NUMBER

DRAWING NUMBER

166 of 497

THESE AREAS WERE WATERPROOFED AND BACKFILLED WITH

- T/CONC WALK 141.75 T/CONC WALK 141.83 10'-2<u>1</u>" T/CONC WALK 141.78 T/CONC WALK 141.87

APPROXIMATE LOCATION

\_\_\_\_ T/CONC WALK 141.64 T/CONC WALK 141.71 T/GB 141.21 T/GB 141.28 PLATFORM

> E-C5.8 T)GB 141.34 \

\ TXGB 141.40 \

T/CONC WALK 141.91

T/CONC WALK 141.93 T/GB 141.43

—\ TXCQNG WALK 1,421,07\

\T/GB\14\1.5\7

T/GB 141,47

—\ TXCONG WALK 142<u>\</u>11

\T/GB\14\1.6\1

- EXISTING CASTING

TO BE REMOVED

- DECKING SUPPORT GRADE BEAM

TOP OF GRADE BEAM SET 6" BELOW CONCRETE WALK ELEVATION

T/GB 141.09

WWF 6x6 W6.0xW6.0 IN RAMP

STONE

**ENLARGED PLAN - RUSSELL AT FISHER SERVICE DRIVE** 

RAMP

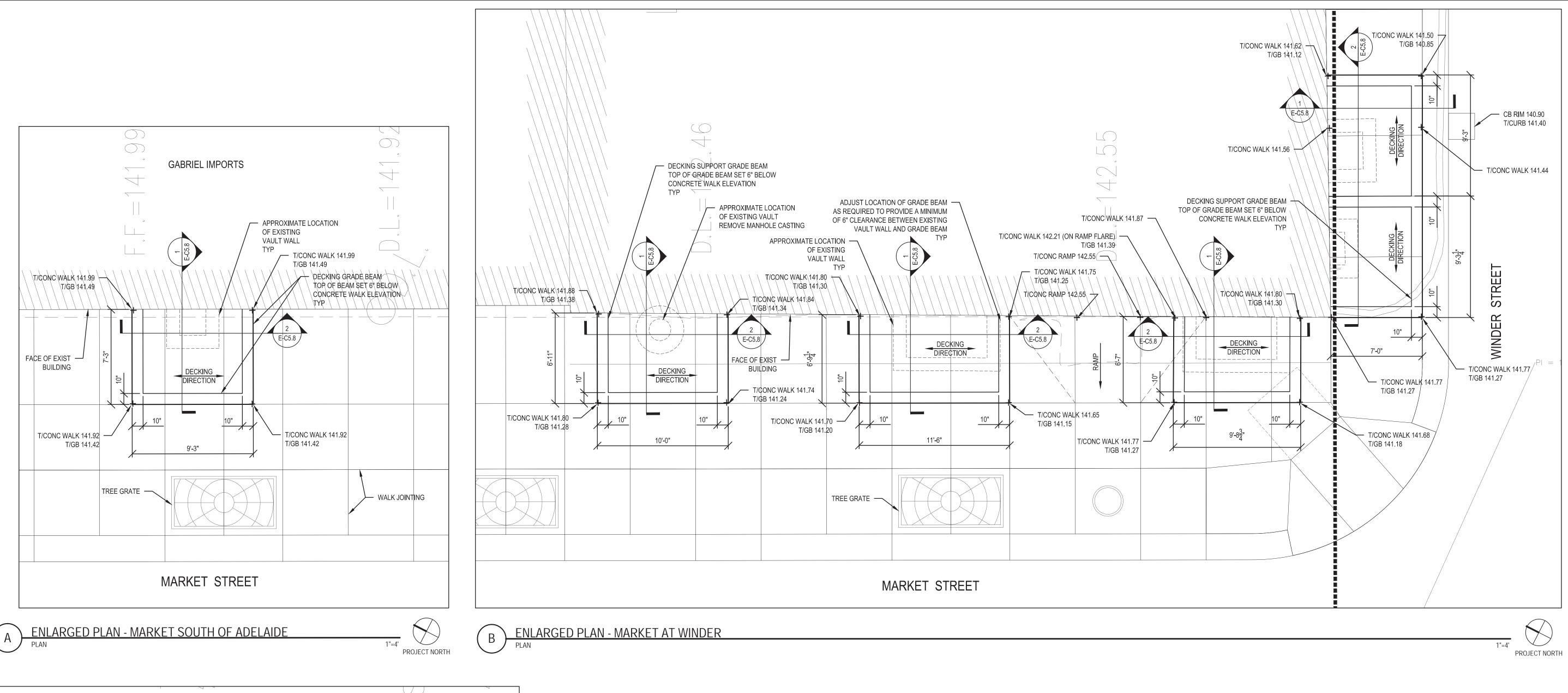
T/CON¢ WALK 141.49

LOWER

LANDING

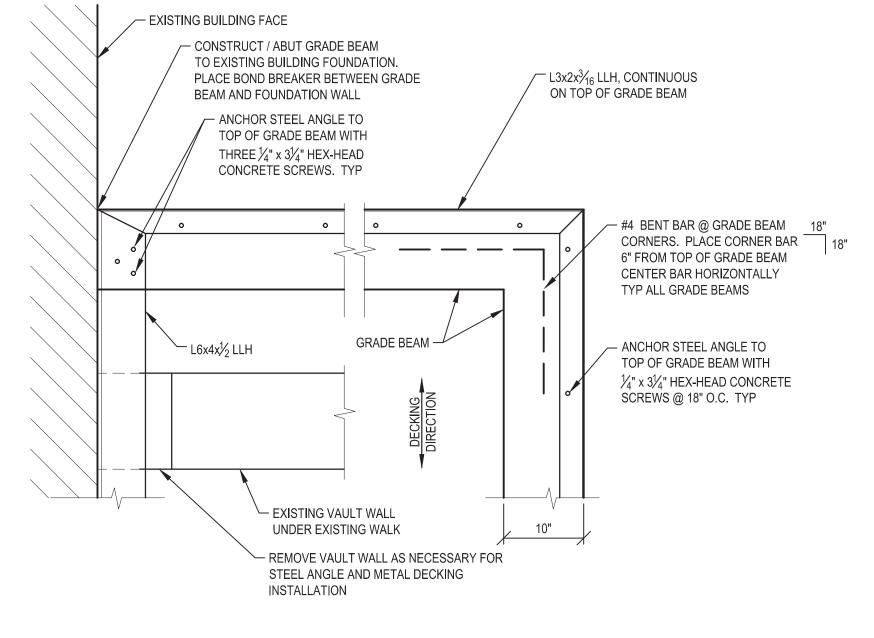
T/GB 140.99

3 WORKING DAYS |
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171 |



OF EXISTING VAULT WALL 4" PVC PIPE VENT TO TYCONC WALK 142,50 +TICONO WALK 142.32 TVGB 142.00\ ADJUST LOCATION OF GRADE BEAM AS REQUIRED TO PROVIDE A MINIMUM OF 6" CLEARANCE BETWEEN EXISTING VAULT WALL AND SUPPORT CURB \_FACE OF EXIST — \_\_\_\_\_\_BUILDING TREE GRATE — T/CONC/WALK 142.39 — T/CONC WALK 142.21 ∕T/GB 141,89 T/GB141.71

**ENLARGED PLAN - MARKET SOUTH OF WINDER** 



DETAILED PLAN - TYPICAL GRADE BEAM AT BUILDING

PROJECT NORTH

3 WORKING DAYS |
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171 |

## Eastern Market District Improvements

Eastern Market
Detroit, Michigan



Owners:







Eastern Market Corporation

#### **SMITHGROUPJJR**

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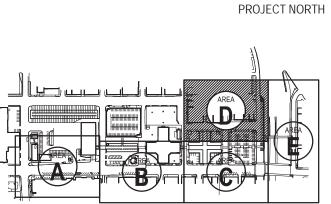
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BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012
	BIDDING DOCUMENTS  100% CONSTRUCTION DOCUMENTS  GRADE INSPECTION  80% CONSTRUCTION DOCUMENTS	BIDDING DOCUMENTS 4 100% CONSTRUCTION DOCUMENTS 3 GRADE INSPECTION 2 80% CONSTRUCTION DOCUMENTS 1

REV DATE

SEALS AND SIGNATURES

ISSUED FOR



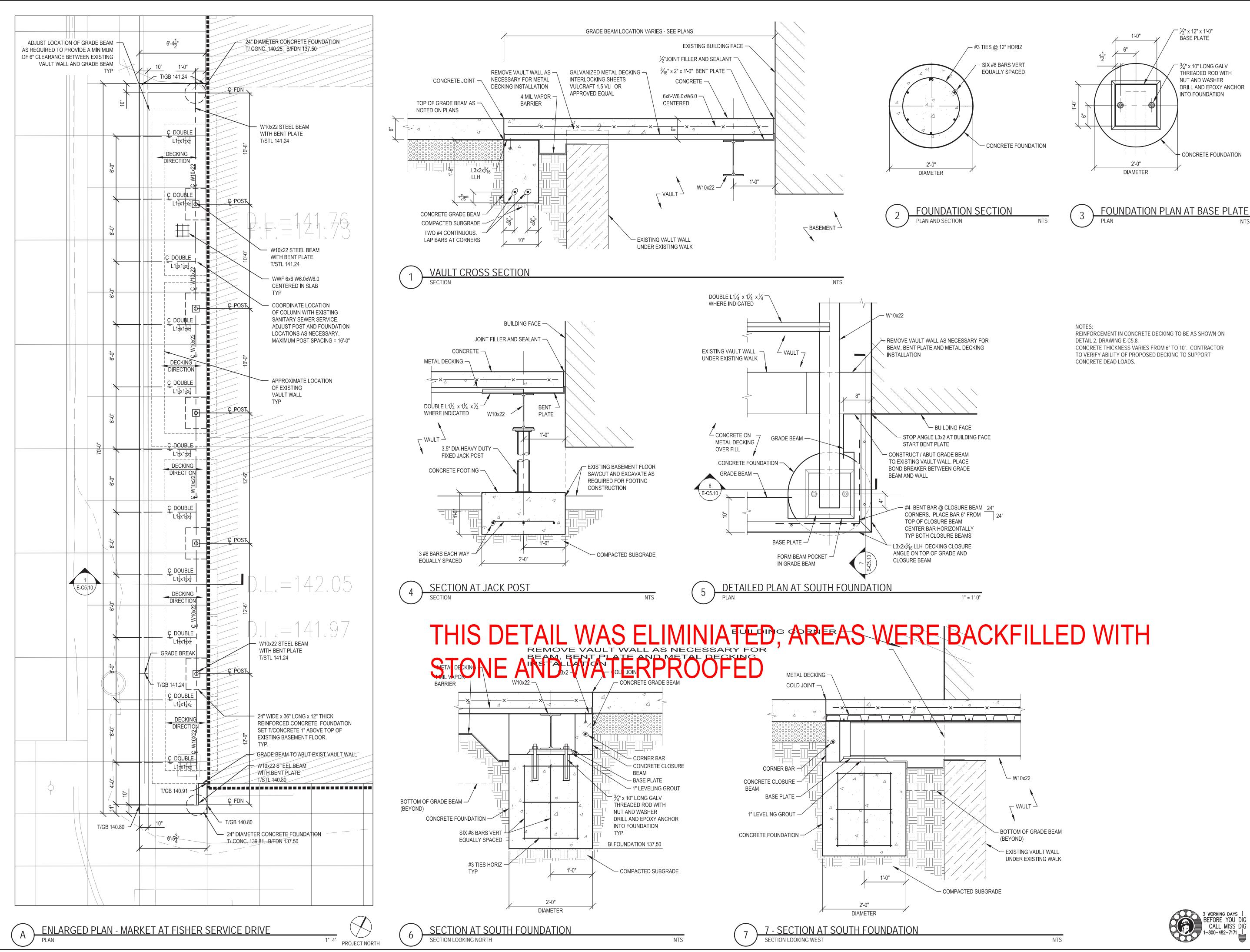


VAULT ENLARGEMENT & DETAILS 2

0 10'	20' 40'
GRAPHIC SCALE TAKES PRECEDENCE	SCALE 1" = 20'-0'
FULL SIZE SCALE (24x36)	50565.000

PROJECT NUMBER

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:







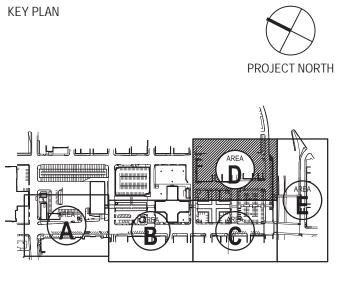
Eastern Market Corporation

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ISSUED FOR	REV	DATE
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SEALS AND SIGNATURES



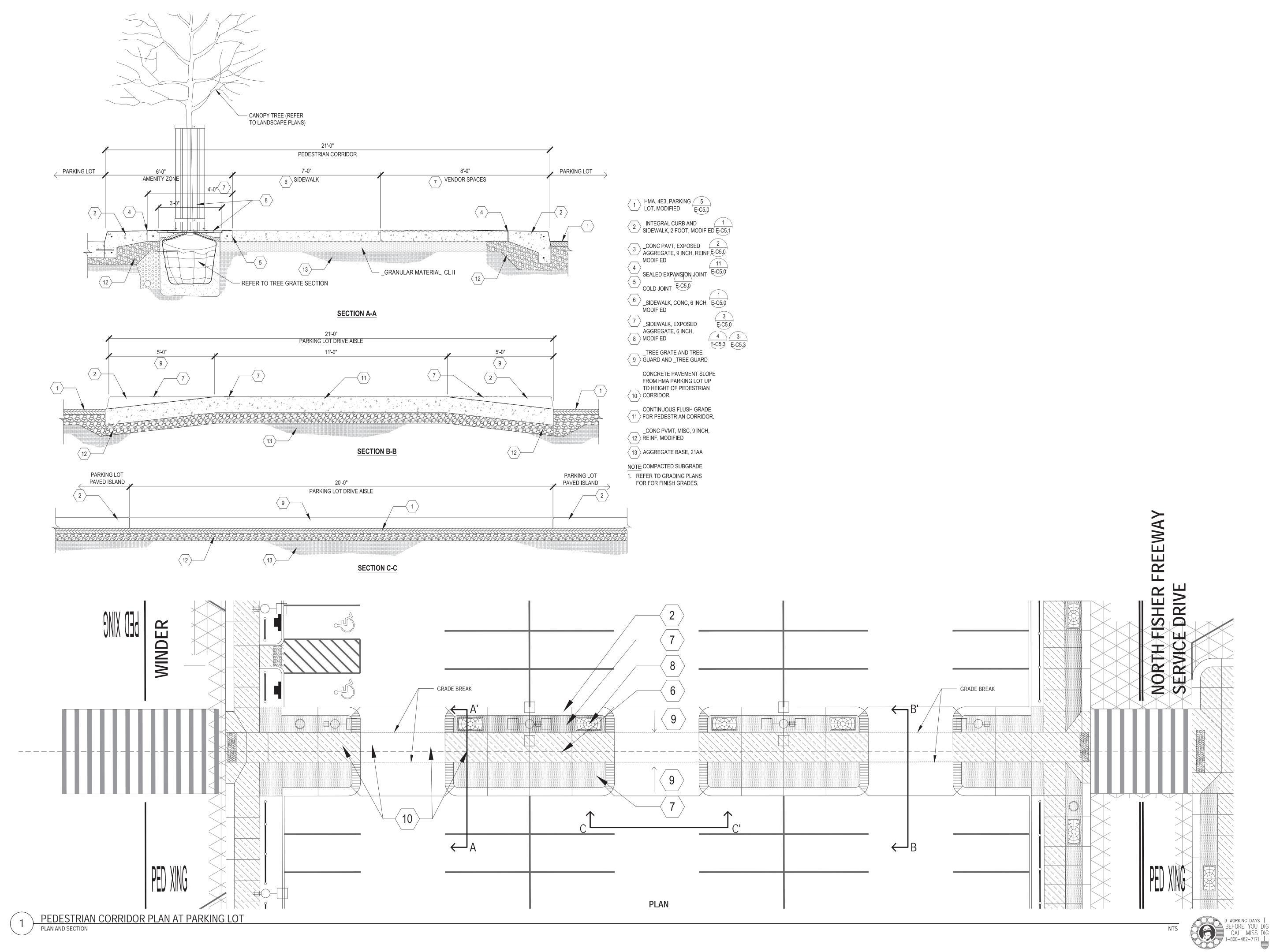
#### **VAULT ENLARGEMENT AND DETAILS 3**



FULL SIZE SCALE (24x36) PROJECT NUMBER

DRAWING NUMBER

168 of 497



Eastern Market
Detroit, Michigan



Owners:







Eastern Market Corporation

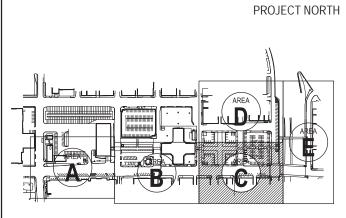
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BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN



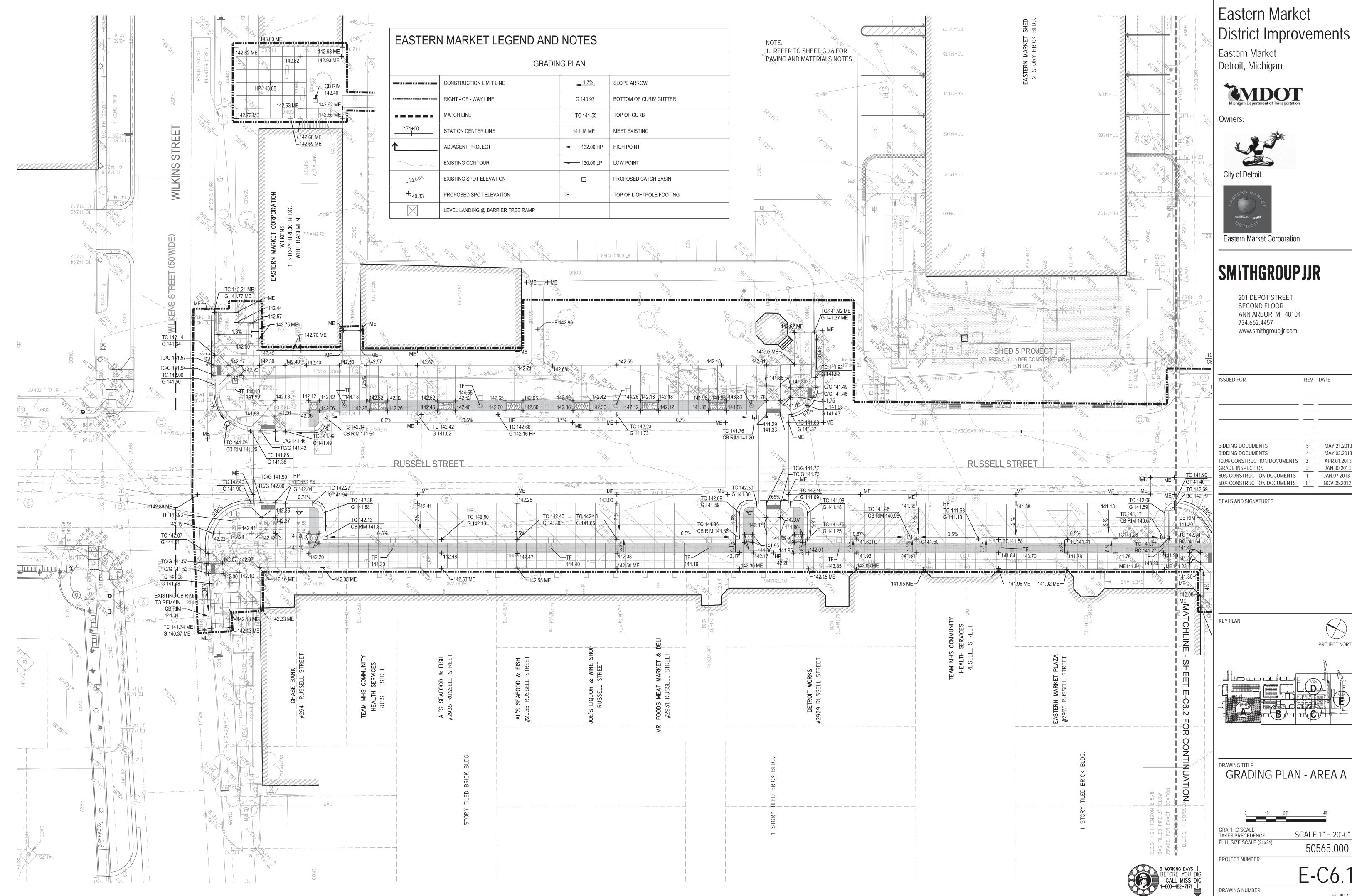
SITE FURNISHING
DETAILS

GRAPHIC SCALE TAKES PRECEDENCE AS NOTED FULL SIZE SCALE (24x36)

PROJECT NUMBER

50565.000

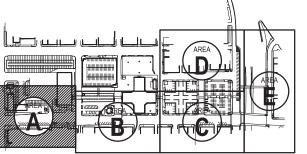
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## District Improvements

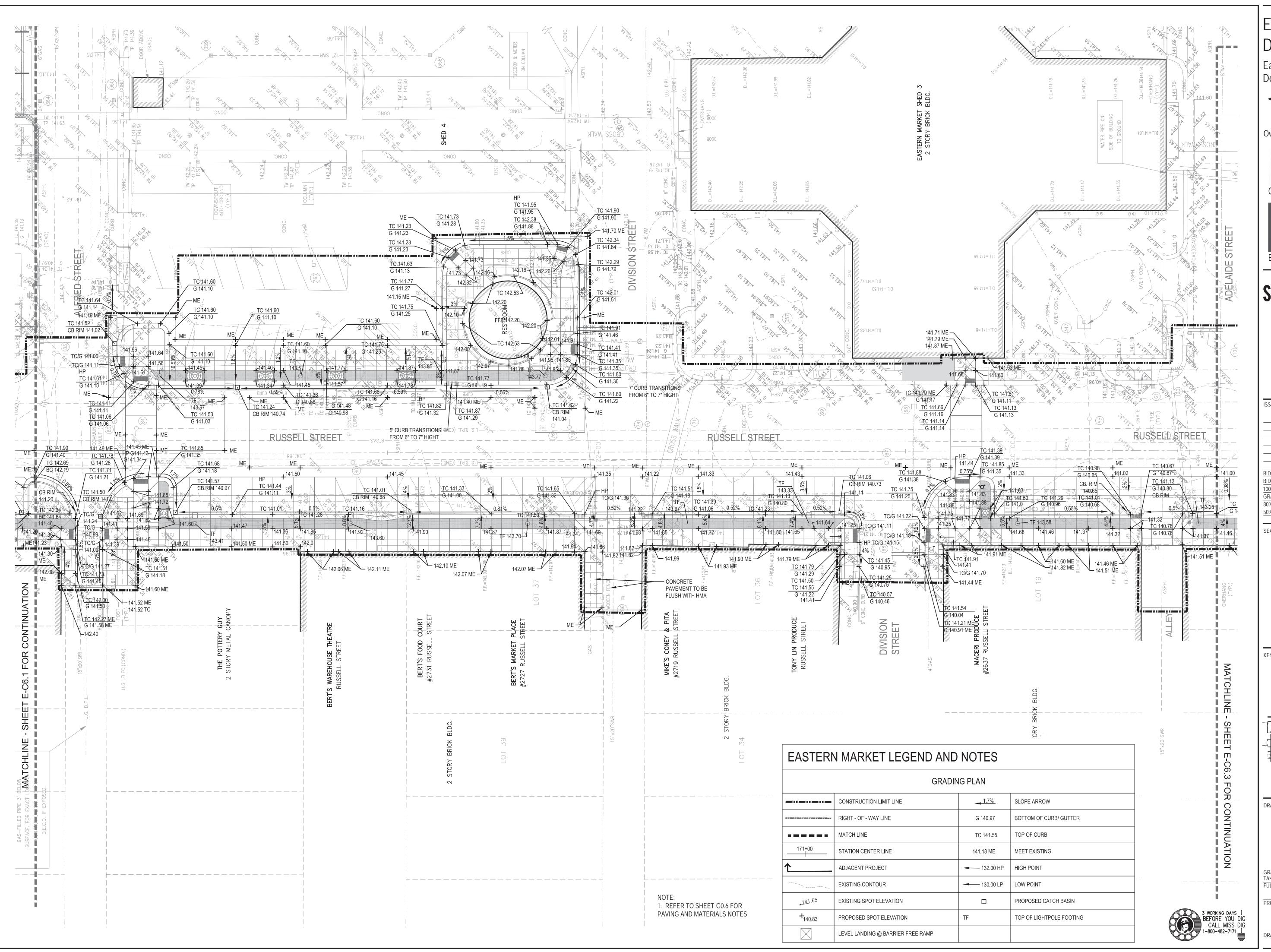
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١	GRADE INSPECTION	2	JAN.30.2013
	80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
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GRADING PLAN - AREA A





Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

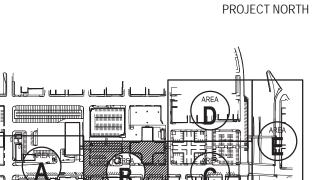
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80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
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SEALS AND SIGNATURES

KEY PLAN



GRADING PLAN - AREA B



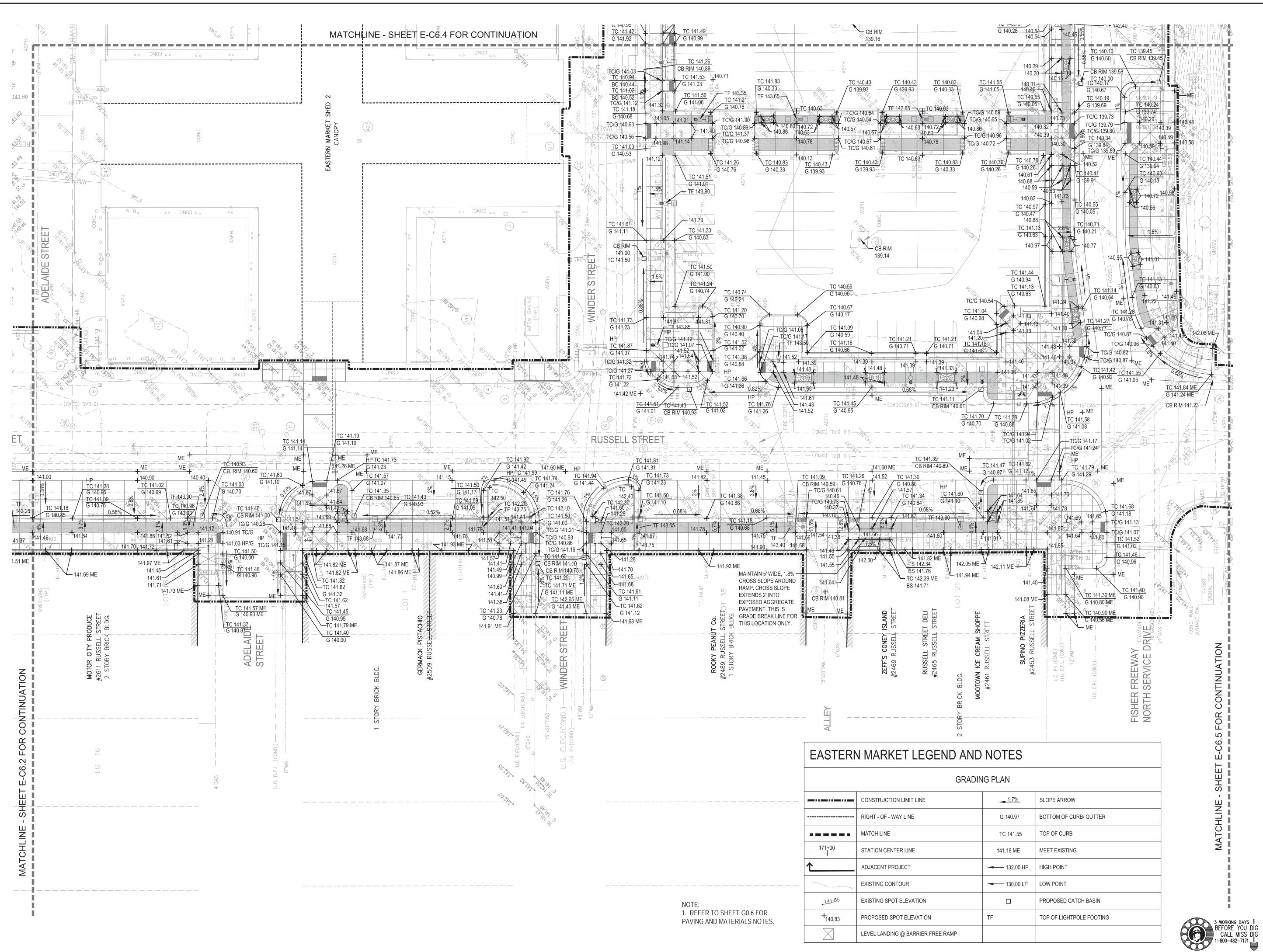
FULL SIZE SCALE (24x36)

PROJECT NUMBER

E-C6.

DRAWING NUMBER

of 49



Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

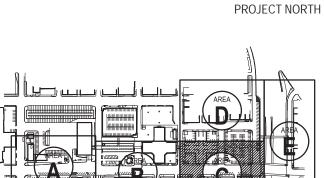
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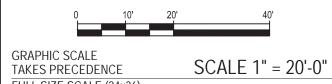
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100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
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SEALS AND SIGNATURES

KEY PLAN



GRADING PLAN - AREA C



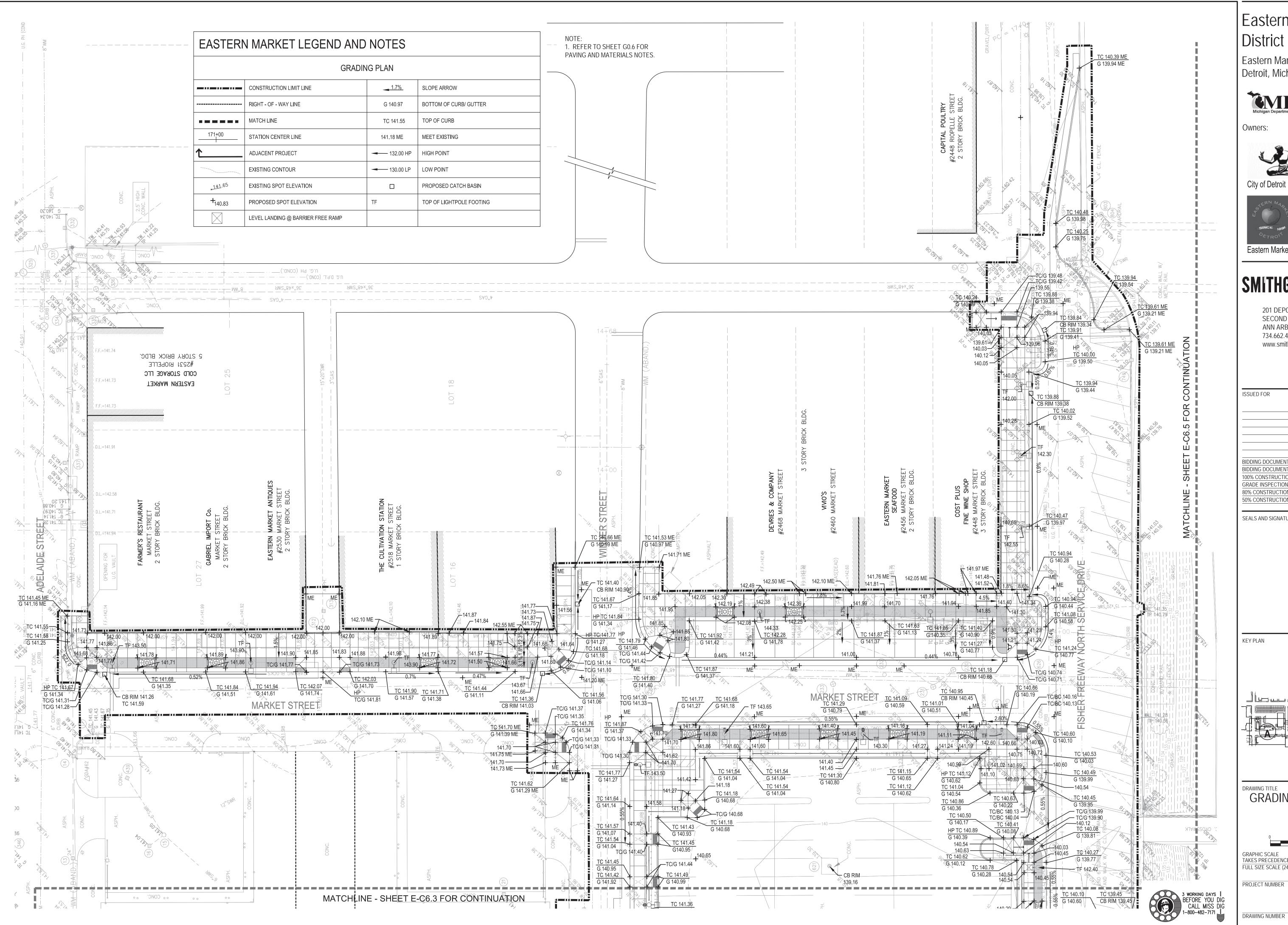
FULL SIZE SCALE (24x36)

PROJECT NUMBER

E-C6

DRAWING NUMBER

of 497



Eastern Market Detroit, Michigan







Eastern Market Corporation

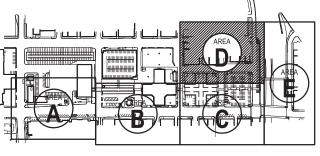
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SEALS AND SIGNATURES



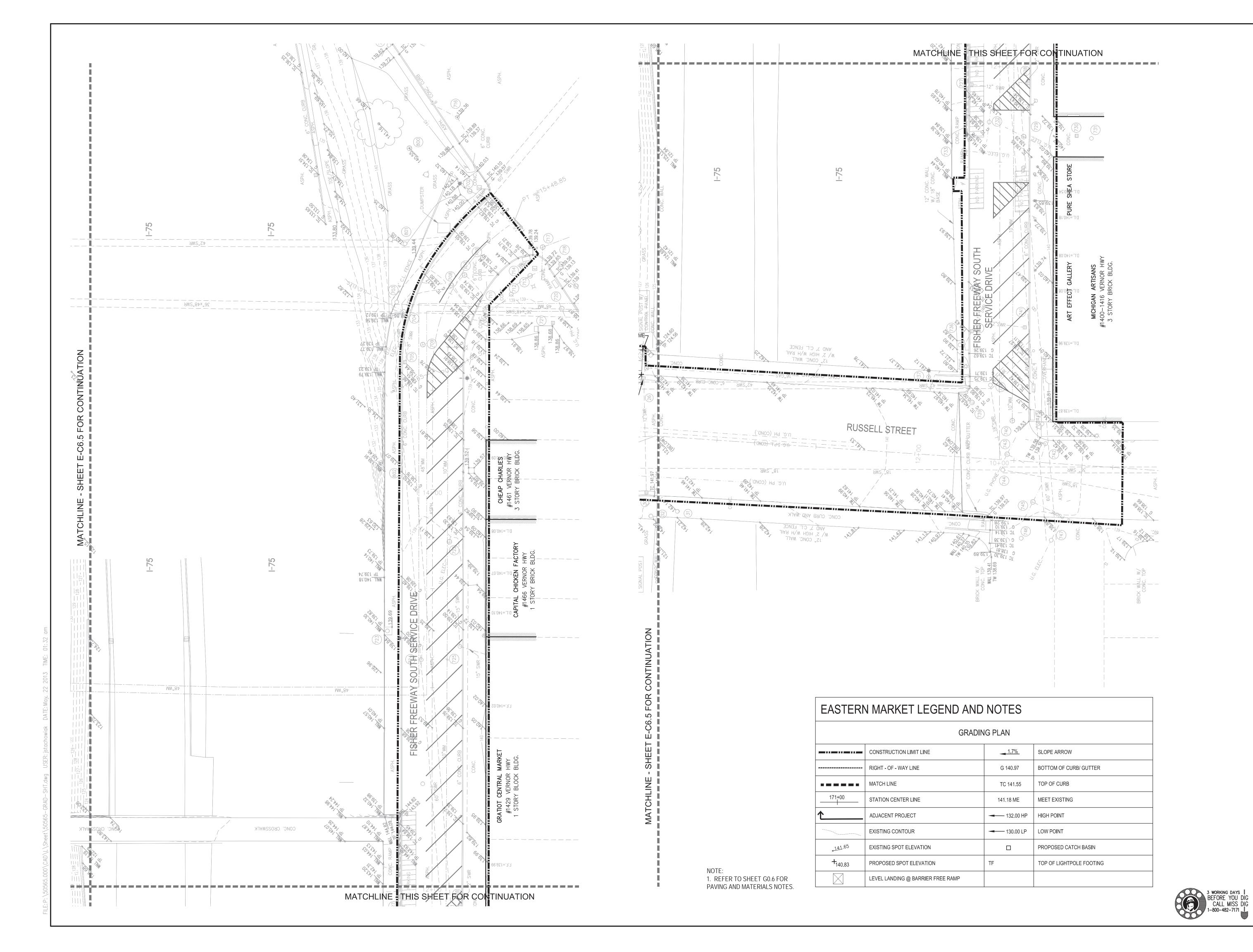


GRADING PLAN - AREA D



SCALE 1" = 20'-0" FULL SIZE SCALE (24x36) 50565.000

PROJECT NUMBER



Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

## **SMITHGROUPJJR**

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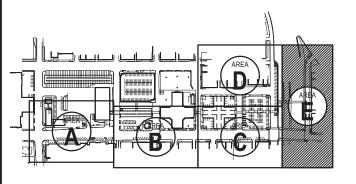
ISSUED FOR	REV	DATE
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SEALS AND SIGNATURES

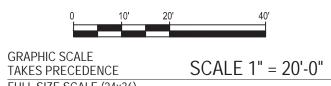
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KEY PLAN





GRADING PLAN - AREA E

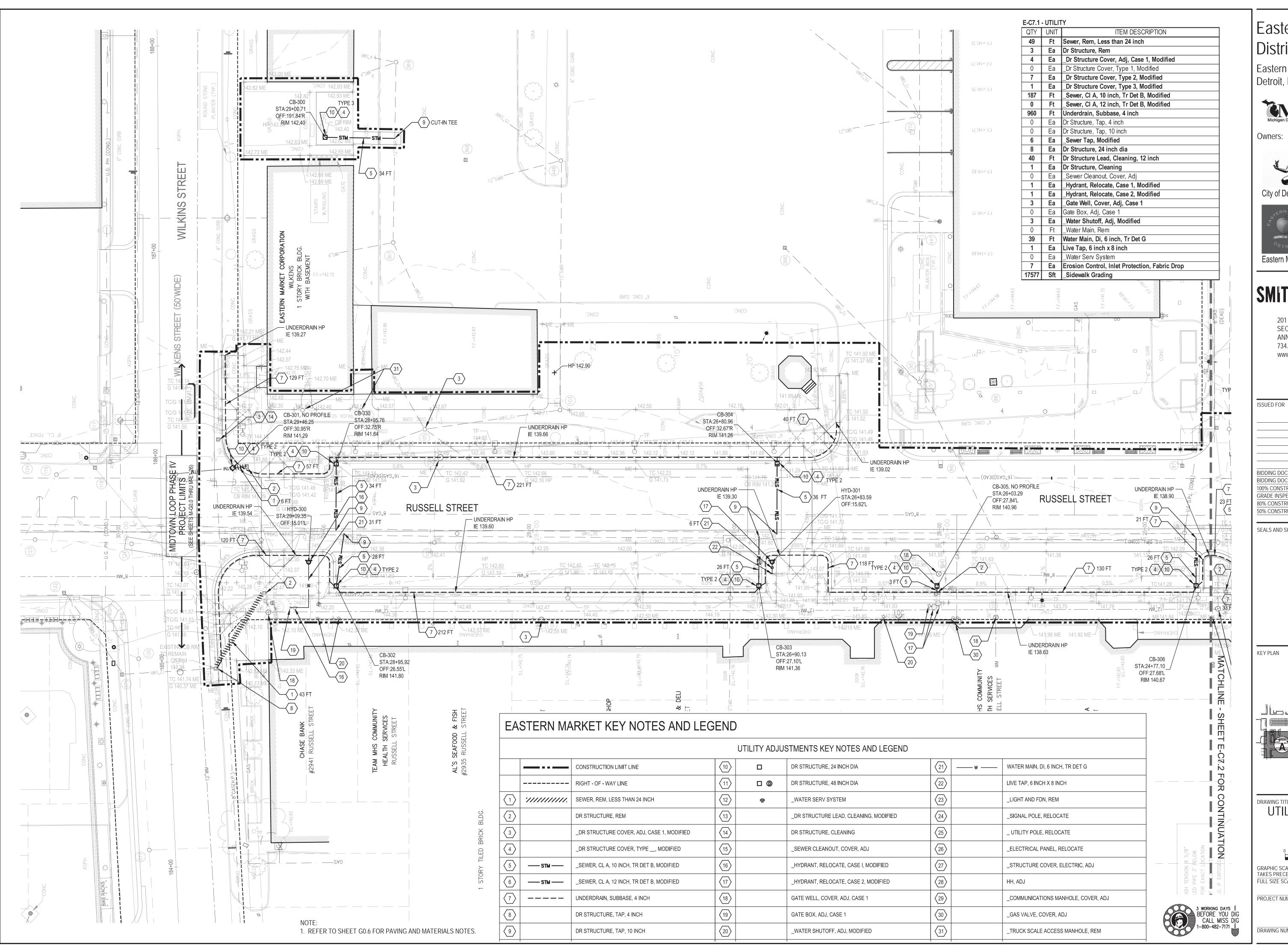


FULL SIZE SCALE (24x36)

PROJECT NUMBER

50565.000 NUMBER F-C65

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

### **SMITHGROUP JJR**

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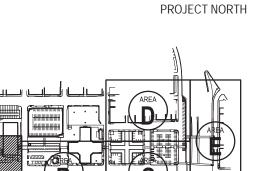
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REV DATE

NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN



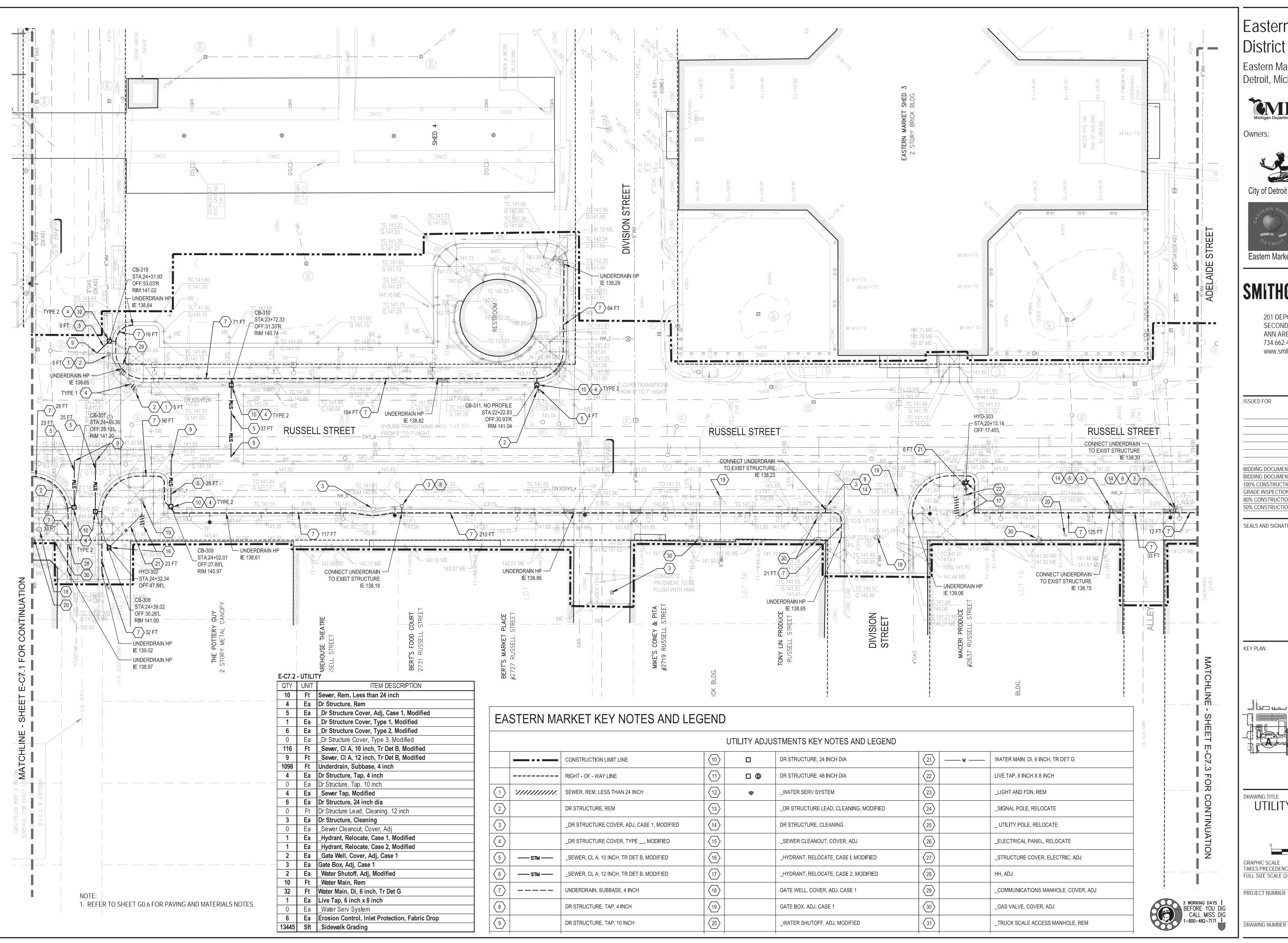
UTILITY PLAN - AREA A

GRAPHIC SCALE TAKES PRECEDENCE SCALE 1" = 20'-0"

FULL SIZE SCALE (24x36) PROJECT NUMBER

DRAWING NUMBER

175 of 497



Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

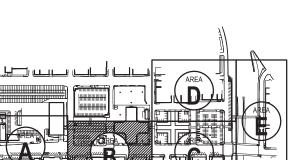
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REV DATE

SEALS AND SIGNATURES



PROJECT NORTH

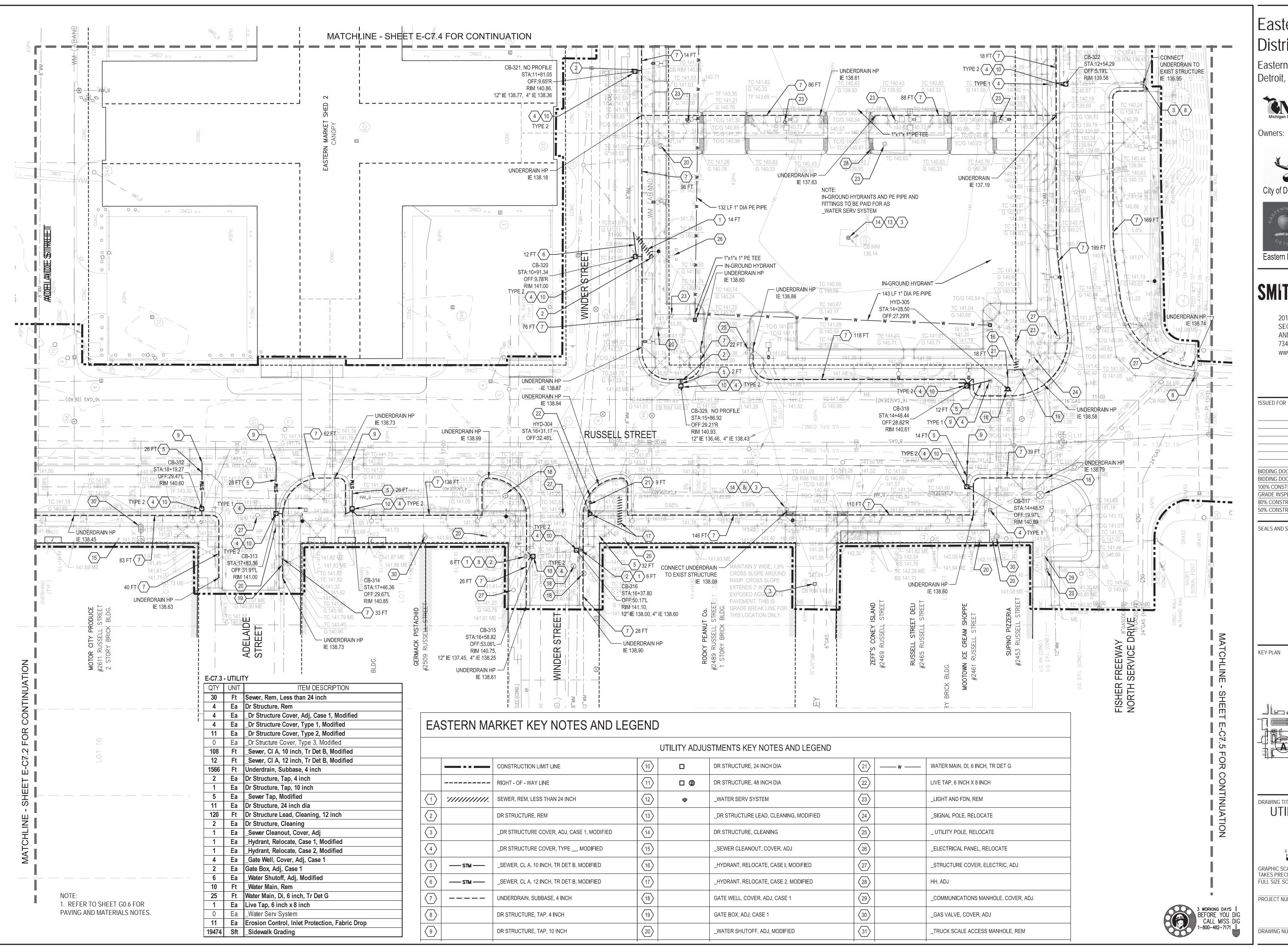
UTILITY PLAN - AREA B



GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)

PROJECT NUMBER

176 of 497



Eastern Market Detroit, Michigan



Owners:





**Eastern Market Corporation** 

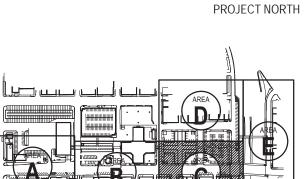
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REV DATE

SEALS AND SIGNATURES



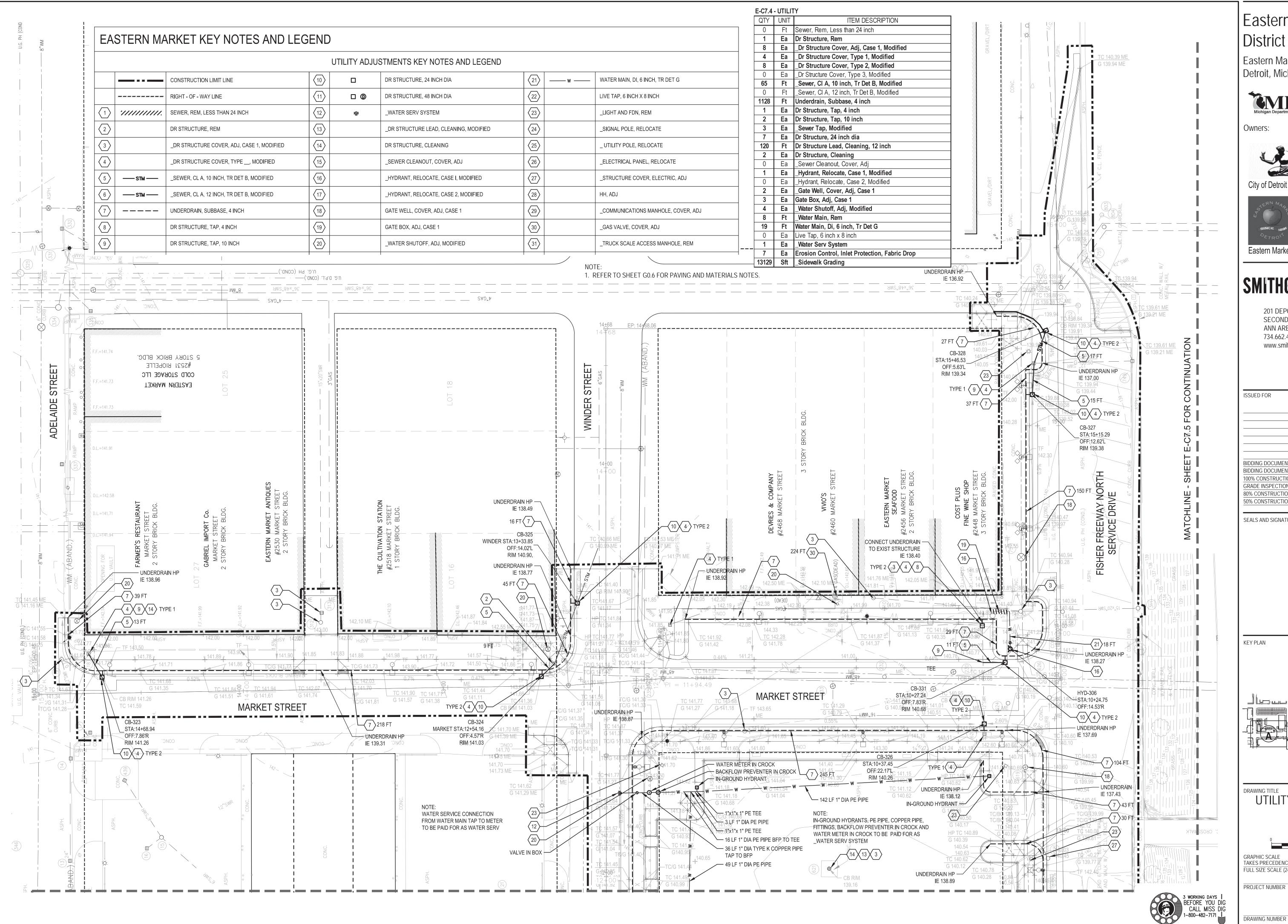
UTILITY PLAN - AREA C



FULL SIZE SCALE (24x36) PROJECT NUMBER

DRAWING NUMBER

177 of 497



Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

## SMITHGROUPJJR

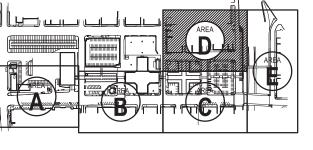
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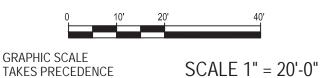
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SEALS AND SIGNATURES





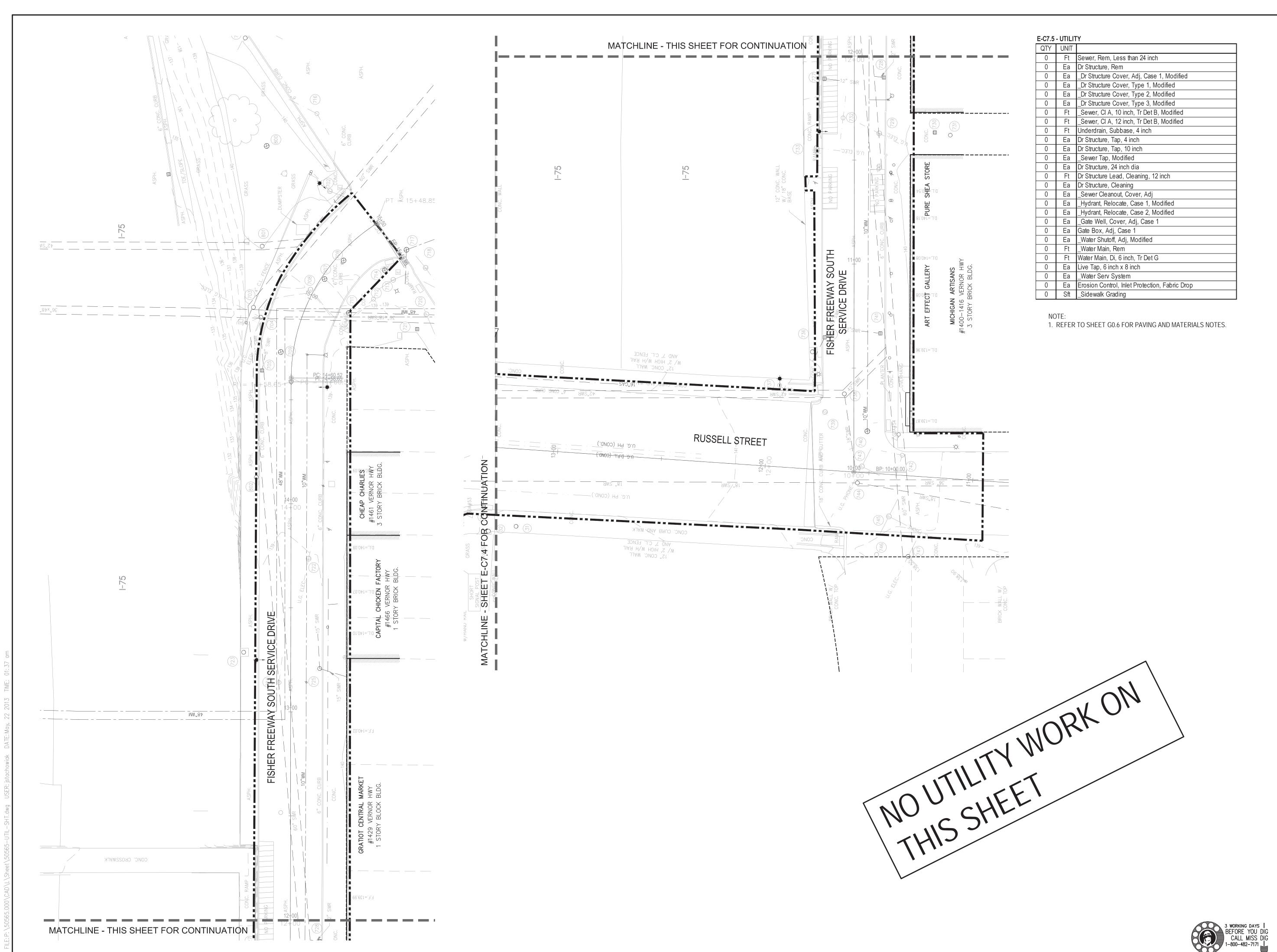
UTILITY PLAN - AREA D



TAKES PRECEDENCE FULL SIZE SCALE (24x36)

PROJECT NUMBER

178 of 497



Eastern Market Detroit, Michigan



Owners:



City of Detroit



Eastern Market Corporation

## **SMITHGROUPJJR**

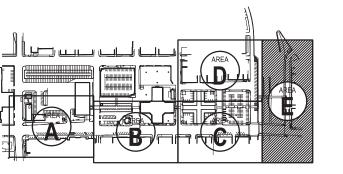
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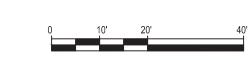
SEALS AND SIGNATURES

KEY PLAN





UTILITY PLAN - AREA E



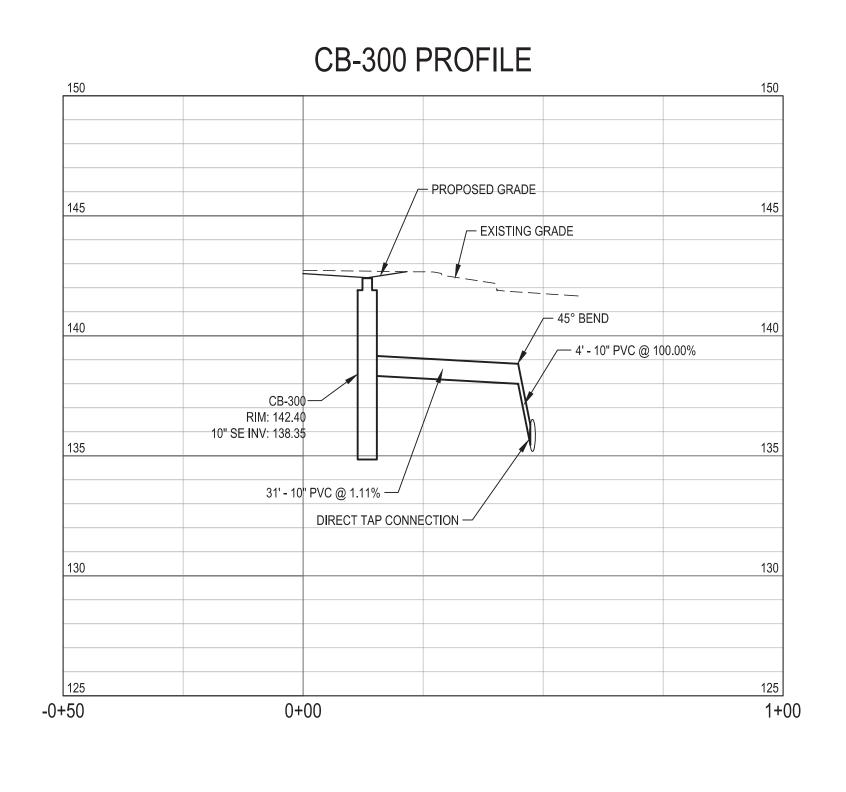
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TAKES PRECEDENCE
FULL SIZE SCALE (24x36)

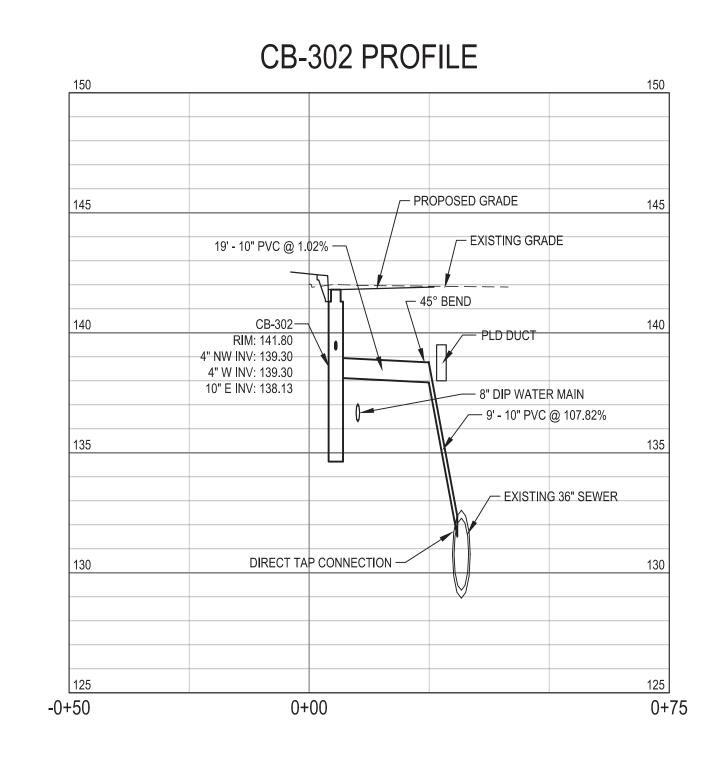
SCALE 1" = 20'-0"
SCALE (24x36)
50565.000

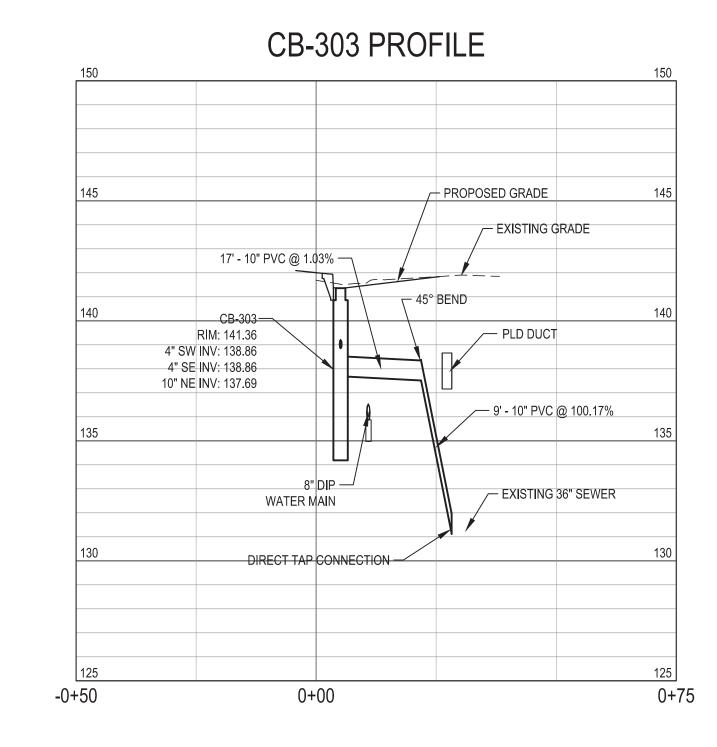
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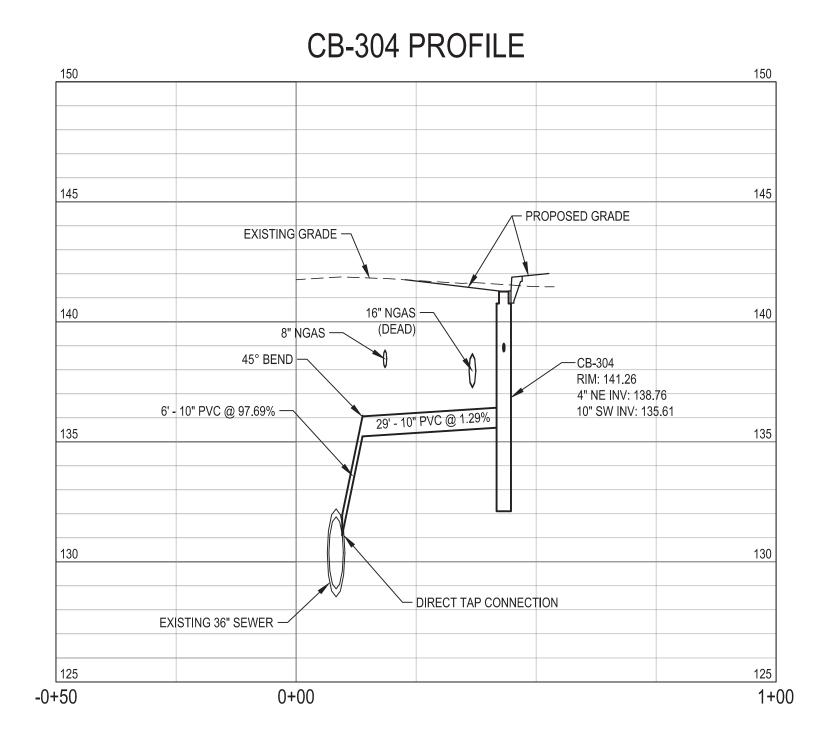
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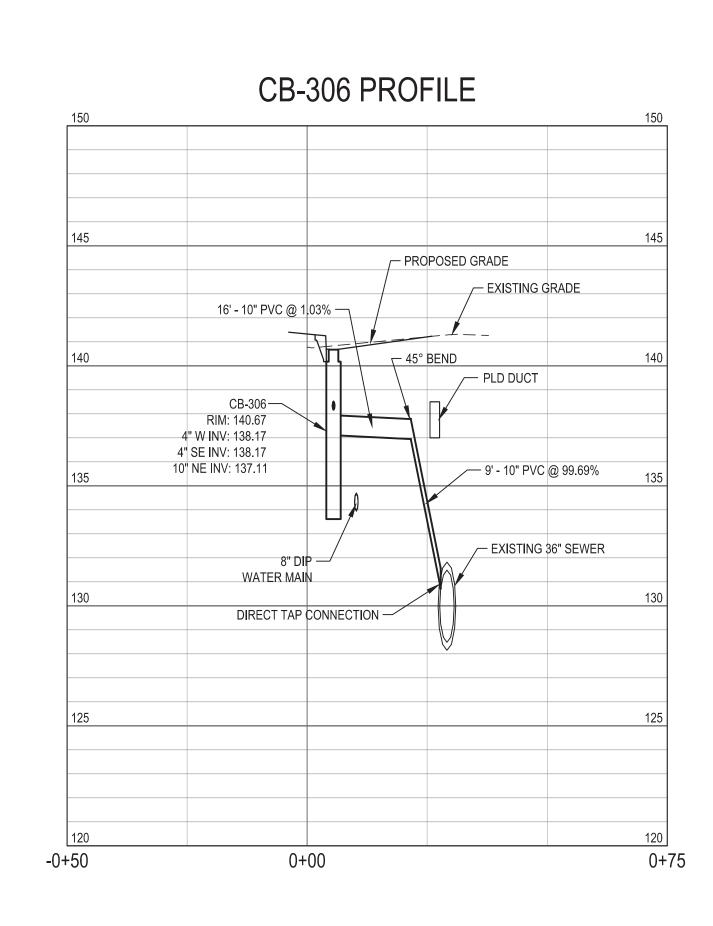
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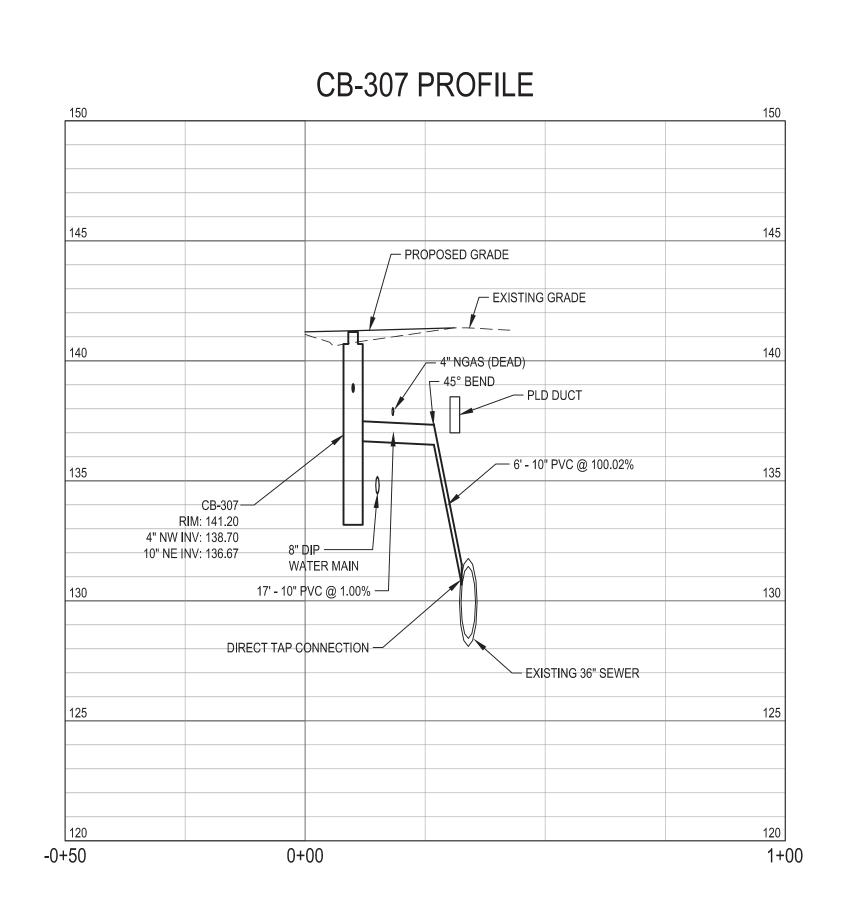












Eastern Market Detroit, Michigan



Owners:





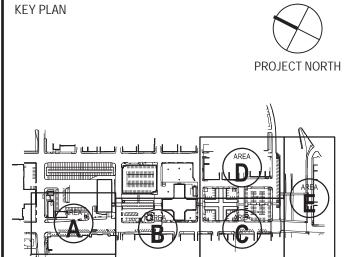
Eastern Market Corporation

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SEALS AND SIGNATURES



STORM SEWER PROFILES



GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)

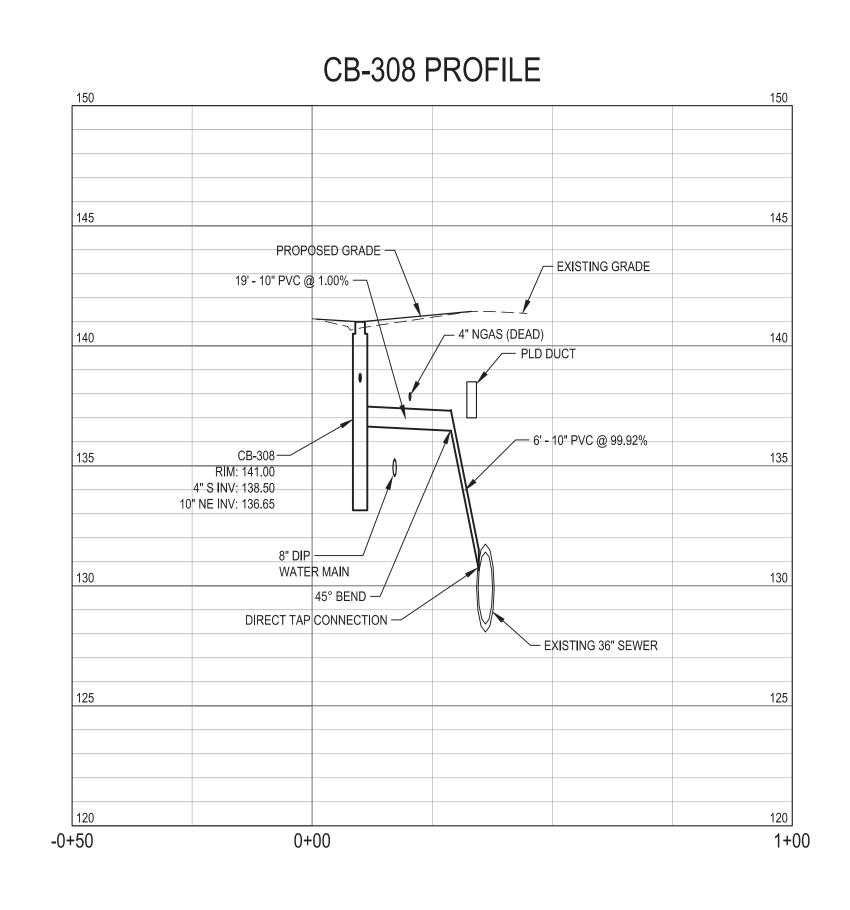
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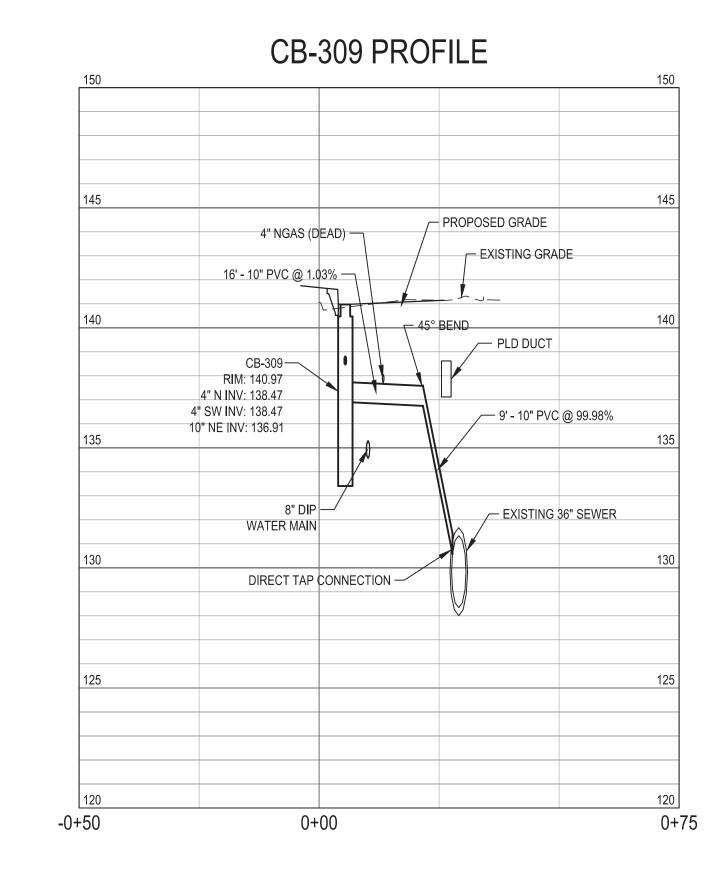
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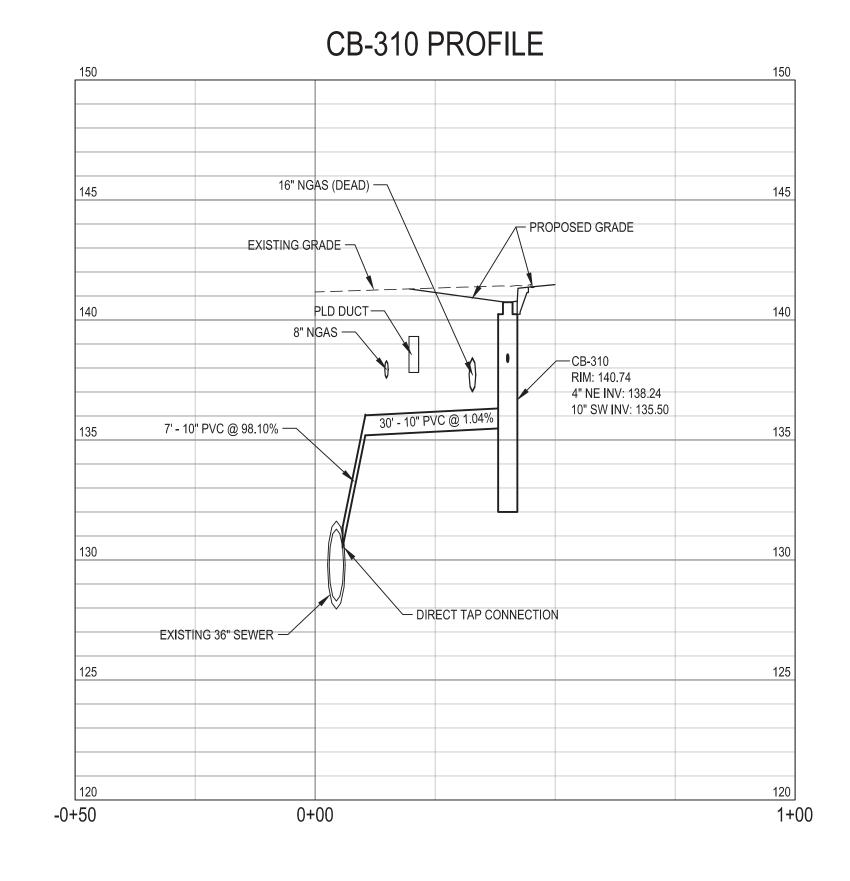
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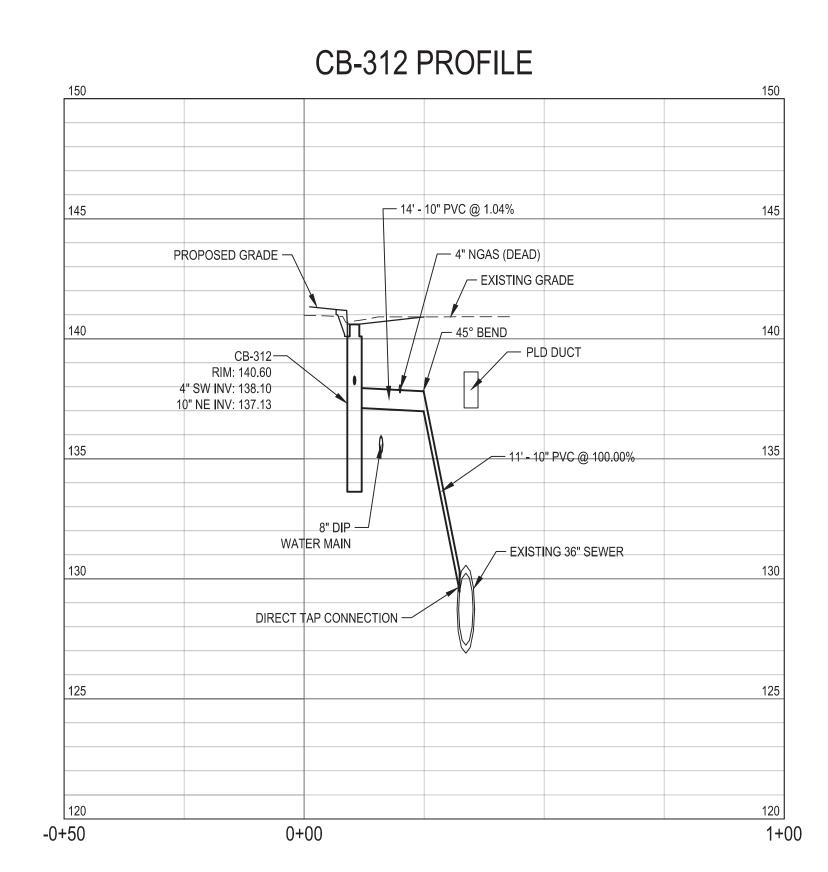
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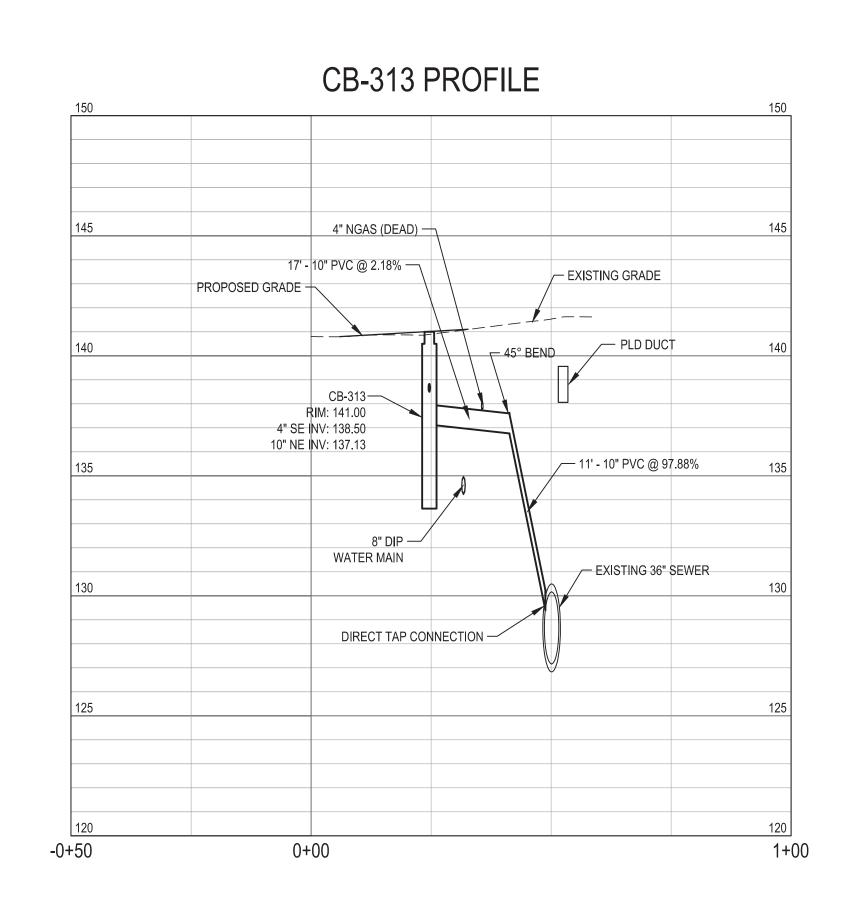


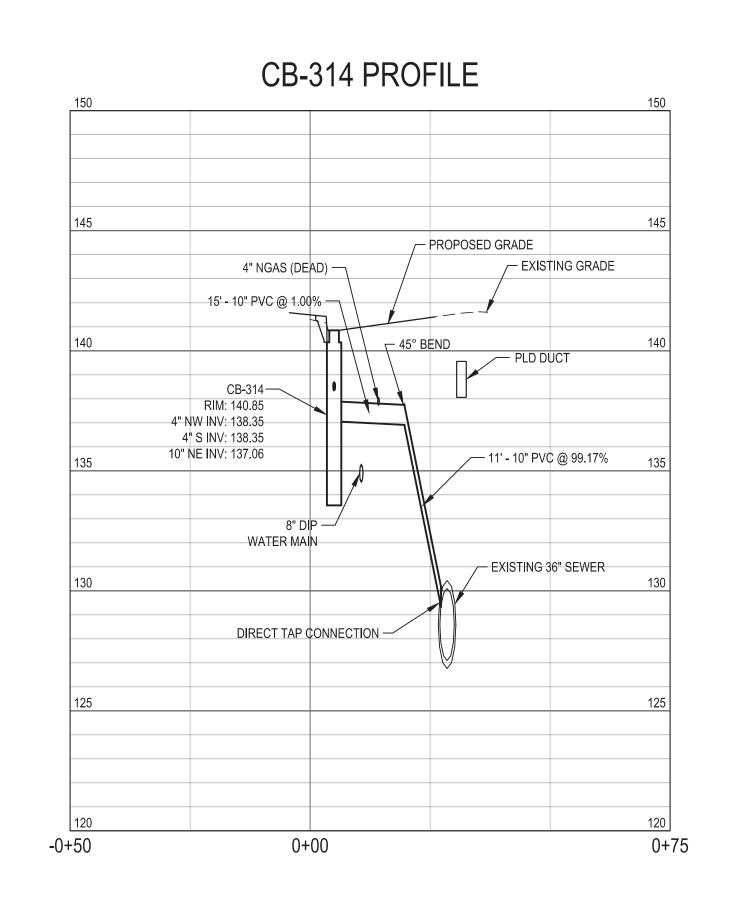












Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

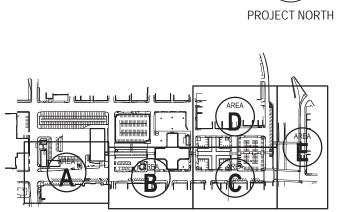
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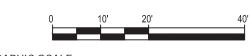
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SEALS AND SIGNATURES

KEY PLAN



STORM SEWER PROFILES



GRAPHIC SCALE
TAKES PRECEDENCE
FULL SIZE SCALE (24x36)

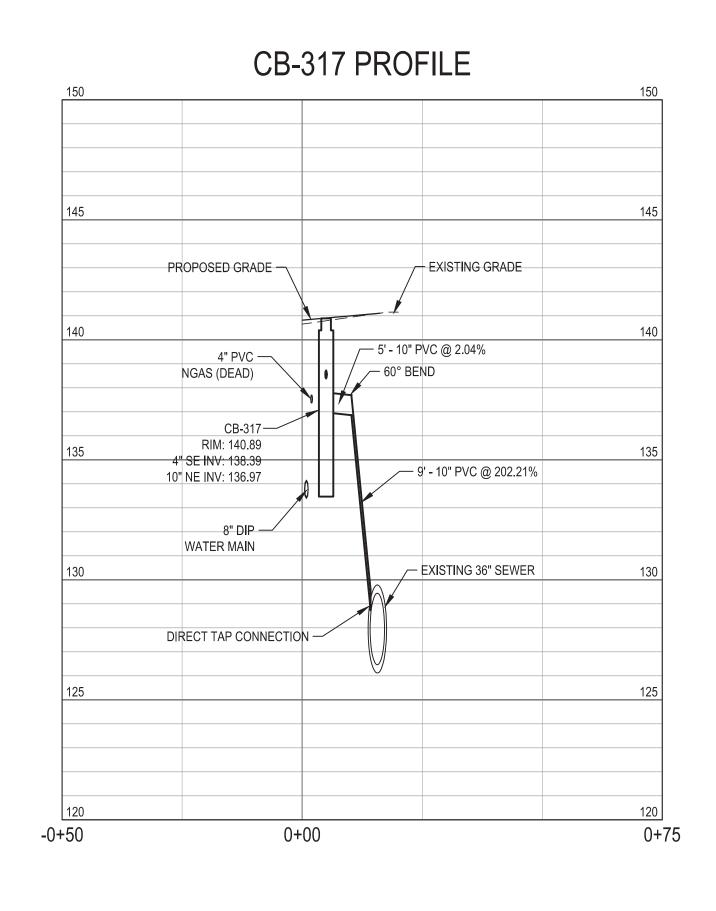
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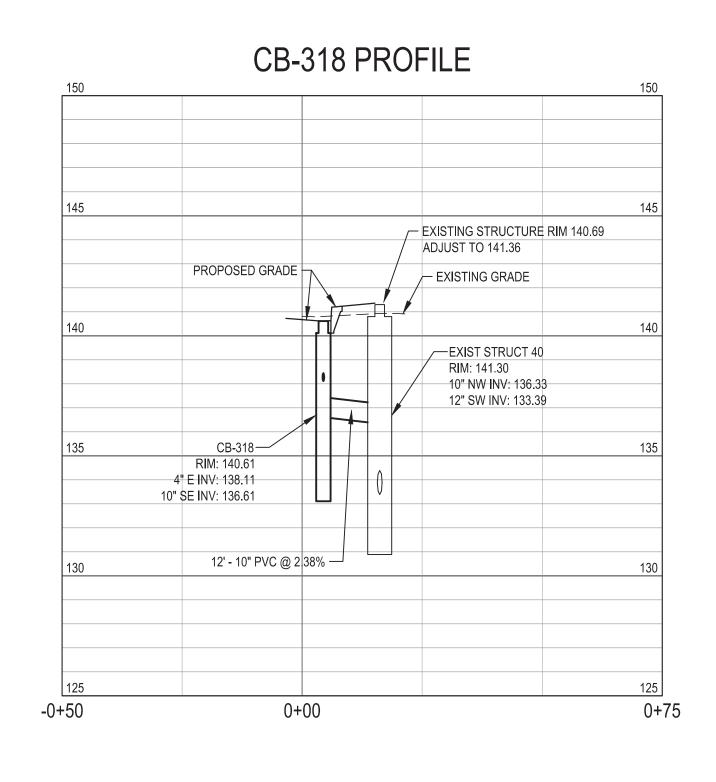
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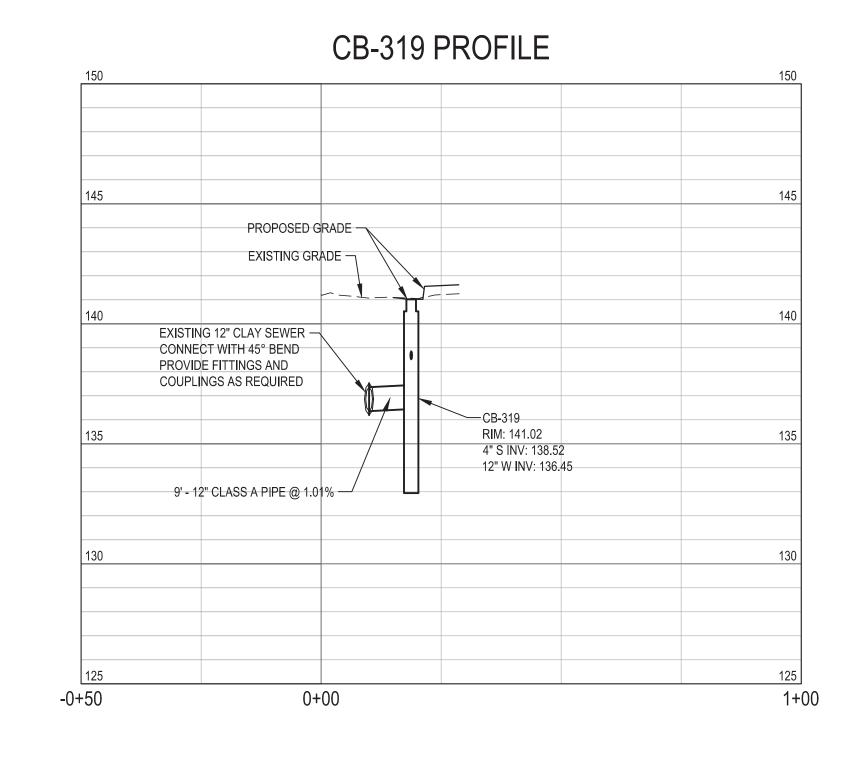
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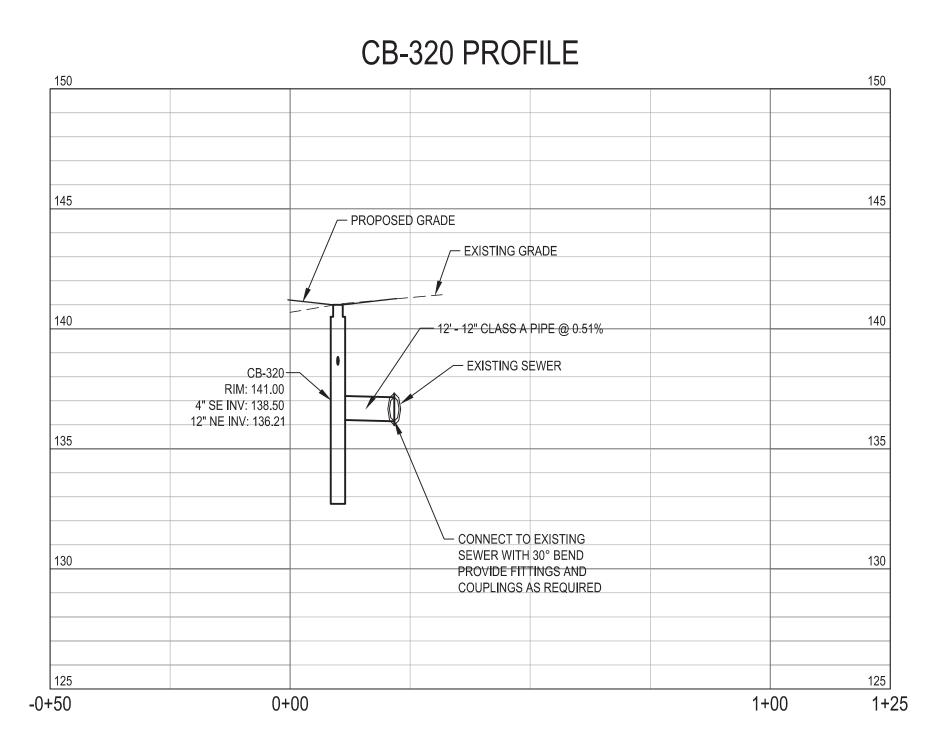
SCALE 1" = 20'-0"

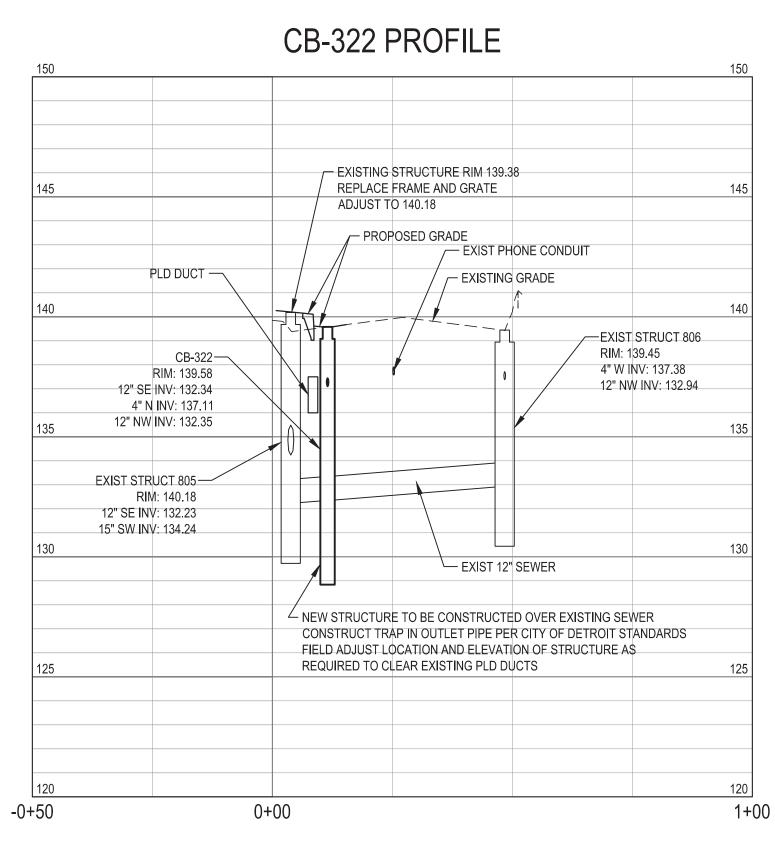


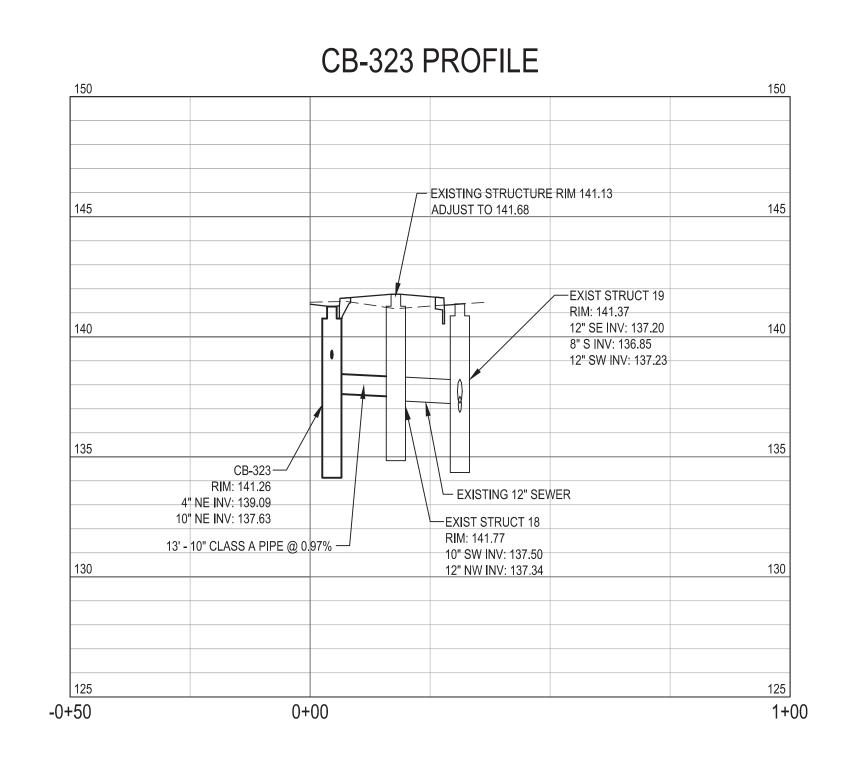












Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

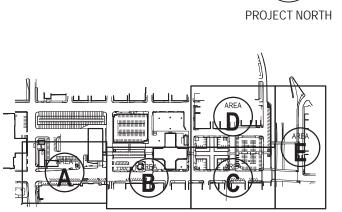
## **SMITHGROUPJJR**

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

ISSUED FOR	REV	DATE
<u> </u>		
BIDDING DOCUMENTS	5	MAY.21.2013
BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

**KEY PLAN** 



STORM SEWER PROFILES

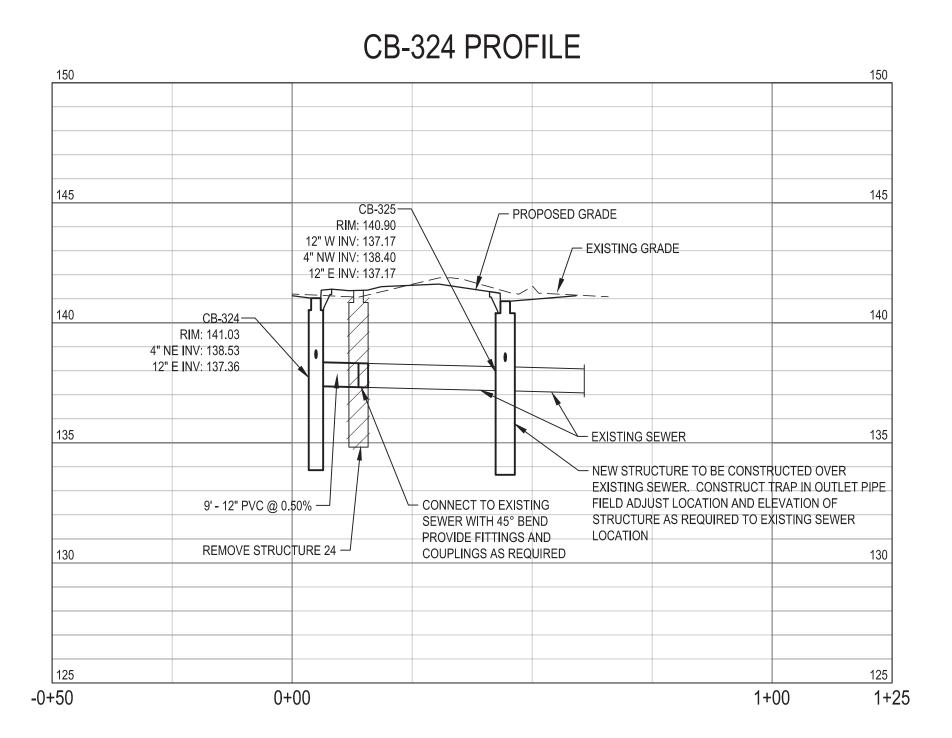


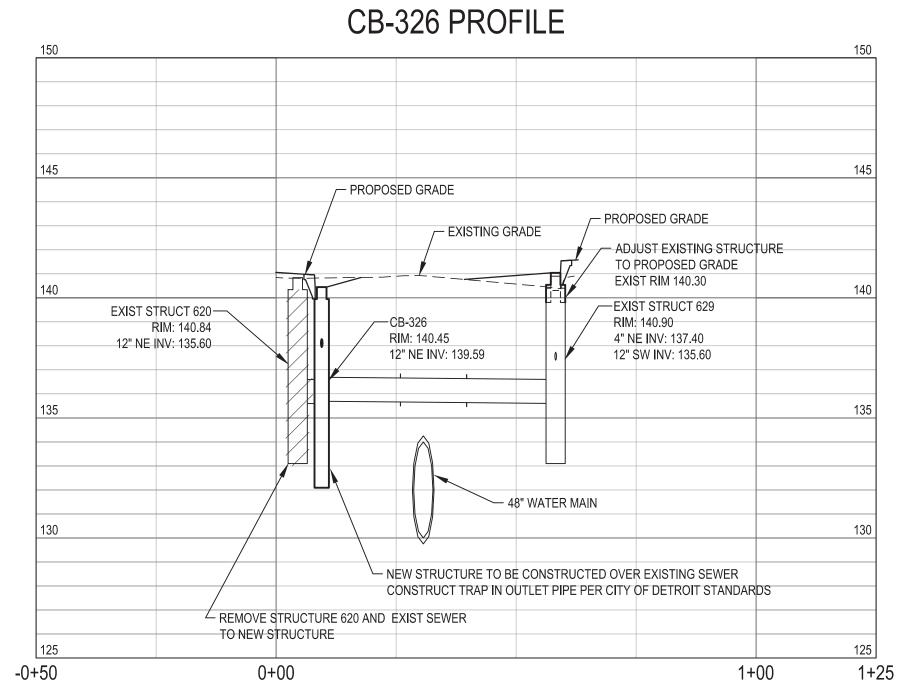
FULL SIZE SCALE (24x36) PROJECT NUMBER

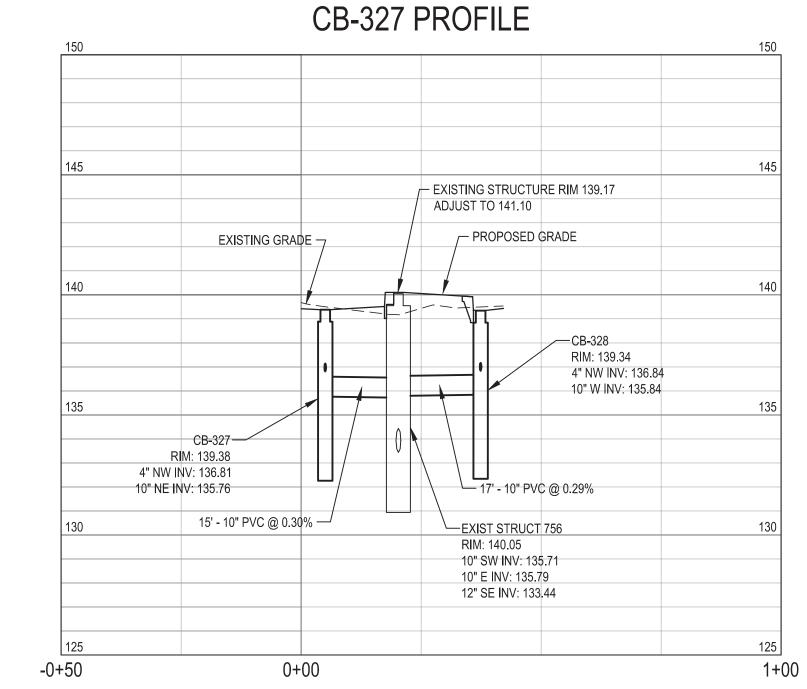
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of 497

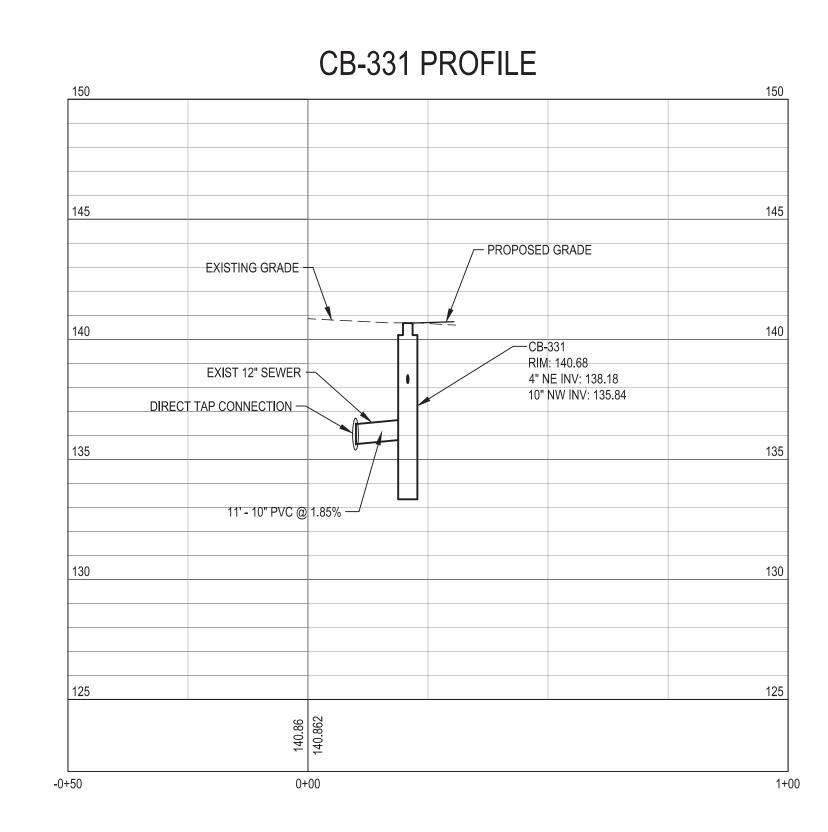
3 WORKING DAYS |
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171 DRAWING NUMBER







# CB-330 PROFILE 150 150 150 145 EXISTING GRADE EXISTING GRADE 140 8° NGAS 140 8° NGAS 150 CB-330 RM: 141.64 4"NE: INV: 139.14 10" SW INV: 136.20 DIRECT TAP CONNECTION 130 EXISTING 36" SEWER 125 EXISTING 36" SEWER



STRUCTURE TABLE				
STRUCTURE NAME:	RIM \ GROUND ELEV.:	PIPES IN:	PIPES OUT:	
CB-300	RIM = 142.40		10" INV OUT =138.35	
CB-301	RIM = 141.29	4" INV IN =138.79	10" INV OUT =137.50	
CB-302	RIM = 141.80	4" INV IN =139.30 4" INV IN =139.30	10" INV OUT =138.13	
CB-303	RIM = 141.36	4" INV IN =138.86 4" INV IN =138.86	10" INV OUT =137.69	
CB-304	RIM = 141.26	4" INV IN =138.76	10" INV OUT =135.61	
CB-305	RIM = 140.96	4" INV IN =138.46	12" INV OUT =137.21	
CB-306	RIM = 140.67	4" INV IN =138.17 4" INV IN =138.17	10" INV OUT =137.11	
CB-307	RIM = 141.20	4" INV IN =138.70	10" INV OUT =136.67	
CB-308	RIM = 141.00	4" INV IN =138.50	10" INV OUT =136.65	
CB-309	RIM = 140.97	4" INV IN =138.47 4" INV IN =138.47	10" INV OUT =136.91	
CB-310	RIM = 140.74	4" INV IN =138.24	10" INV OUT =135.50	
CB-311	RIM = 141.04	4" INV IN =138.54	12" INV OUT =137.45	
CB-312	RIM = 140.60	4" INV IN =138.10	10" INV OUT =137.13	
CB-313	RIM = 141.00	4" INV IN =138.50	10" INV OUT =137.13	
CB-314	RIM = 140.85	4" INV IN =138.35 4" INV IN =138.35	10" INV OUT =137.06	
CB-315	RIM = 140.75	4" INV IN =138.25	12" INV OUT =137.45	

DIRECT SEWER TAPS				
STRUCTURE NAME:	ALIGNMENT:	STATION:	OFFSET:	
DT-300	RUSSEL ST	STA: 28+66.76	OFF: 191.22, R	
DT-302	RUSSEL ST	STA: 28+92.12	OFF: -1.54, L	
DT-303 RUSSEL ST		STA: 26+89.92	OFF: -3.98, L	
DT-304	RUSSEL ST	STA: 26+81.25	OFF: -1.48, L	
DT-306	RUSSEL ST	STA: 24+77.02	OFF: -5.35, L	
DT-307	RUSSEL ST	STA: 24+49.63	OFF: -5.49, L	
DT-308	RUSSEL ST	STA: 24+38.76	OFF: -5.53, L	
DT-309	RUSSEL ST	STA: 24+01.79	OFF: -5.56, L	
DT-310	RUSSEL ST	STA: 23+72.53	OFF: -3.06, L	
DT-312	RUSSEL ST	STA: 18+19.07	OFF: -7.58, L	
DT-313	RUSSEL ST	STA: 17+83.14	OFF: -7.72, L	
DT-314	RUSSEL ST	STA: 17+46.81	OFF: -7.91, L	
DT-317	RUSSEL ST	STA: 14+48.35	OFF: -10.69, L	
DT-321	RUSSEL ST	STA: 28+96.04	OFF: 0.49, R	
DT-322 MARKET ST STA: 10+38.03 OFF: 8.00, R				

NOTE: IF THE MAIN SEWER LINE IS 18" DIAMETER OR LESS, OR THE CONNECTING (BRANCH) LINE IS MORE THAN 1/2 THE DIAMETER OF MAIN SEWER LINE, A SANITARY TEE OR WYE MUST BE INSTALLED

Eastern Market
District Improvements
Fastorn Markot

Detroit, Michigan



Owners:





Eastern Market Corporation

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04.0040
21.2013
02.2013
01.2013
30.2013
7.2013
)5.2012
3

SEALS AND SIGNATURES

PIPES OUT:

12" INV OUT =138.00

10" INV OUT =136.97

10" INV OUT =136.61

12" INV OUT =136.45

12" INV OUT =136.21

12" INV OUT =138.77

12" INV OUT =132.35

10" INV OUT =137.63

12" INV OUT =137.36

12" INV OUT =137.17

12" INV OUT =135.69

10" INV OUT =135.76

10" INV OUT =135.84

12" INV OUT =137.16

10" INV OUT =136.20

4" INV IN =138.18 | 10" INV OUT =135.84

STRUCTURE TABLE

RIM = 141.10

RIM = 140.89

RIM = 140.61

RIM = 141.02

RIM = 140.86

RIM = 139.58

RIM = 141.26

RIM = 141.03

RIM = 140.90

RIM = 140.45

RIM = 139.38

RIM = 139.34

RIM = 140.93

RIM = 141.64

RIM = 140.68

PIPES IN:

4" INV IN =138.60

4" INV IN =138.39

4" INV IN =138.11

4" INV IN =138.52

4" INV IN =138.50

4" INV IN =138.36

12" INV IN =132.34 4" INV IN =137.11

4" INV IN =139.09

4" INV IN =138.53

12" INV IN =137.17

4" INV IN =138.40

12" INV IN =135.59

4" INV IN =137.95

4" INV IN =136.81

4" INV IN =136.84

4" INV IN =138.43

4" INV IN =139.14

STRUCTURE NAME: | RIM \ GROUND ELEV.

CB-316

CB-317

CB-318

CB-319

CB-320

CB-321

CB-322

CB-323

CB-324

CB-325

CB-326

CB-327

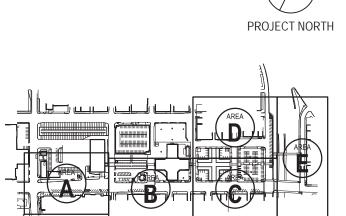
CB-328

CB-329

CB-330

CB-331

KEY PLAN



STORM SEWER PROFILES
AND STRUCTURE TABLE



FULL SIZE SCALE (24x36)

PROJECT NUMBER

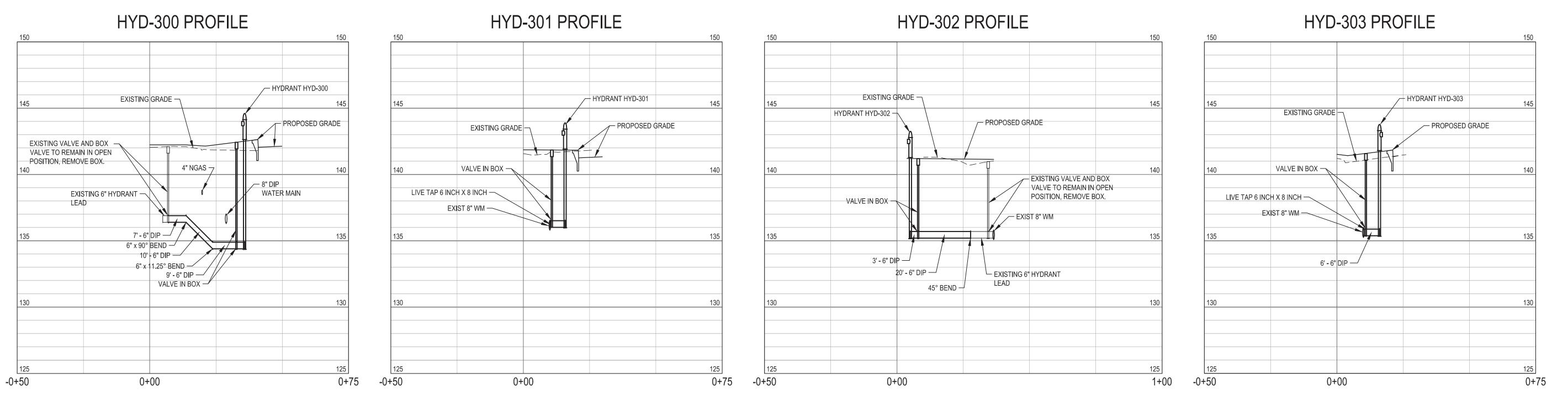
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DRAWING NUMBER

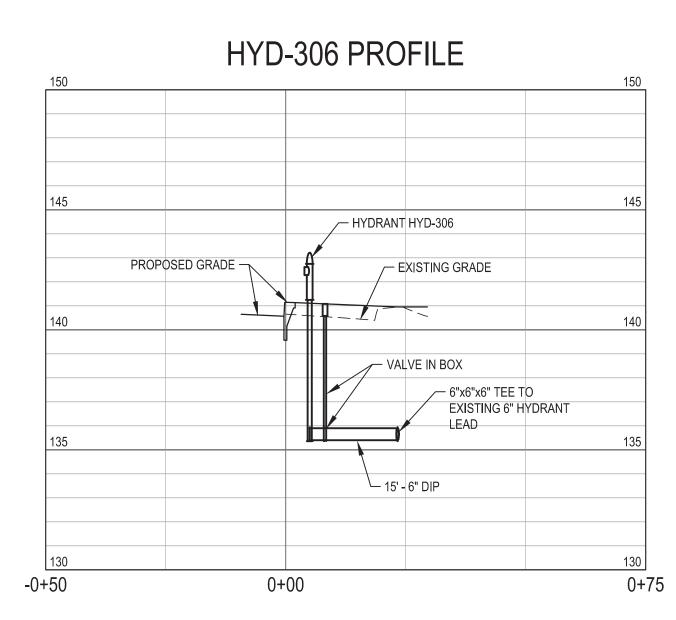
of 497

50565.000

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## **HYD-304 PROFILE** HTD-305 PROFILE - HYDRANT HYD-305 — PROPOSED GRADE - EXISTING GRADE PROPOSED GRADE -- EXISTING VALVE AND BOX - VALVE IN BOX VALVE TO REMAIN IN OPEN POSITION, REMOVE BOX. EXISTING GRADE — VALVE IN BOX — - LIVE TAP 6 INCH X 8 INCH ← EXIST 12" WM 3' - 6" DIP — 6' - 6" DIP — — EXIST 8" WM 6" x 90° BEND — — EXISTING 6" HYDRANT 4' - 6" DIP — 0+00 0+75 -0+50 0+00 -0+50



	FIRE HYDRANT TABLE				
STRUCTURE NAME: FINISHED GRADE: ALIGNMENT: STATION: OFFSET					
HYD-300	142.46	RUSSEL ST	STA: 29+09.35	OFF: -15.01, L	
HYD-301	142.09	RUSSEL ST	STA: 26+83.59	OFF: -15.62, L	
HYD-302	141.30	RUSSEL ST	STA: 24+32.34	OFF: -47.84, L	
HYD-303	141.47	RUSSEL ST	STA: 20+13.14	OFF: -17.45, L	
HYD-304	141.74	RUSSEL ST	STA: 16+31.17	OFF: -32.48, L	
HYD-305	141.41	RUSSEL ST	STA: 14+28.49	OFF: 27.29, R	
HYD-306	141.21	MARKET ST	STA: 10+24.73	OFF: 14.54, R	

FIRE HY	S		
STRUCTURE NAME:	ALIGNMENT:	STATION:	OFFSET:
FHT-301	RUSSEL ST	STA: 26+83.59	OFF: -21.36, L
FHT-303	RUSSEL ST	STA: 20+13.09	OFF: -23.53, L
FHT-304	RUSSEL ST	STA: 16+31.14	OFF: -23.88, L

NOTE: LEADS FOR HYDRANTS 301, 303 AND 304 REQUIRE NEW TEE CONNECTIONS (TAPS) TO EXISTING WATER MAIN LINES. HYDRANTS 300, 302, 305 AND 306 ARE EXTENSION OF EXISTING 6" HYDRANT LEAD AND DO NOT REQUIRE NEW TAPS TO EXISTING WATER MAIN LINES.

# Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

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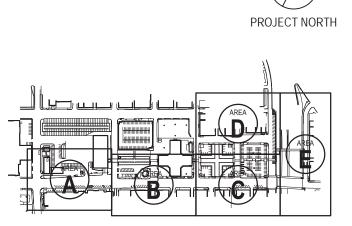
DIDDING DOCUMENTS		
BIDDING DOCUMENTS	_5	MAY.21.2013
BIDDING DOCUMENTS	_4	MAY.02.2013
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GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

REV DATE

SEALS AND SIGNATURES

ISSUED FOR

KEY PLAN



FIRE HYDRANT PROFILES



GRAPHIC SCALE
TAKES PRECEDENCE
FULL SIZE SCALE (24x36)

PROJECT NUMBER

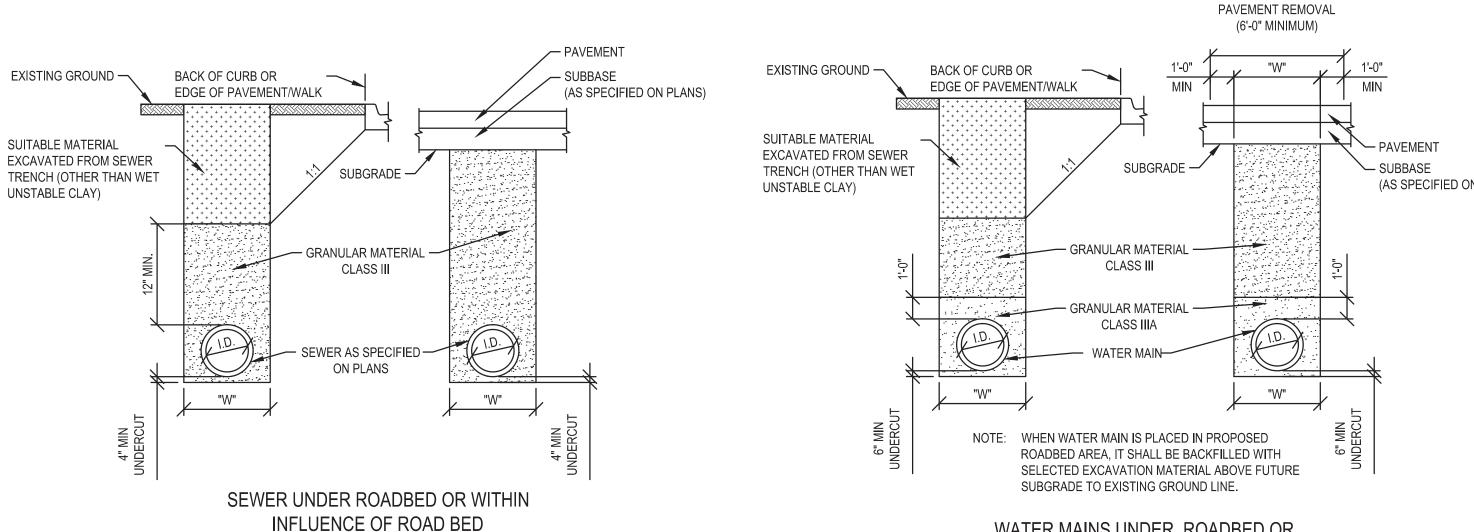
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of 497

50565.000



FILE: P: \50565.000\CAD\L\Sheet\50565-UTIL-PROF.dwg USER: jstachowiak DATE: M



I.D. PIPE SIZE (INCHES)	"W" TRENCH WIDTH (FEET)
LESS THAN 18	3.0
21	3.5
24	4.0
30	5.0
36	6.0
42	7.0
48	8.0
54	9.5
60	10.0
66	10.5
72	11.0
78	11.5
84	12.0
90	12.5
96	13.0
102	13.5
108	14

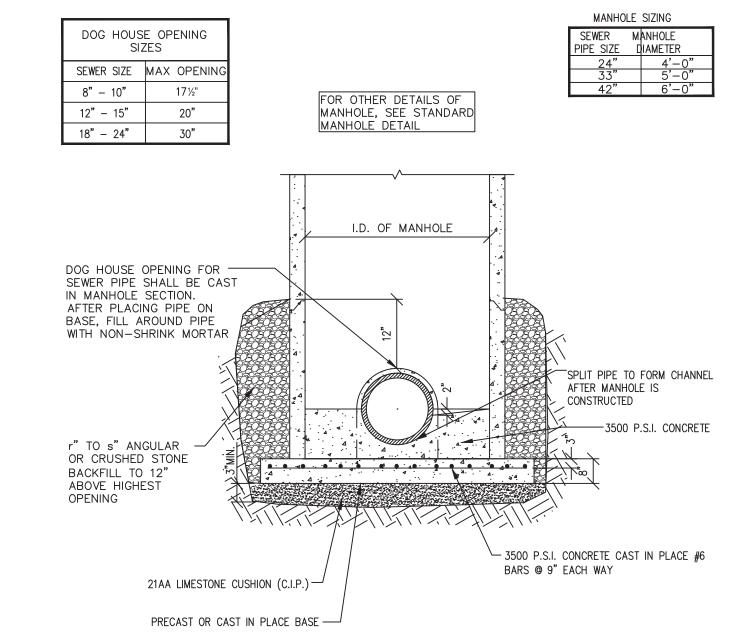
\* IN PAVED AREAS USE HINGED BOLTED GRATE.

MODIFIED.

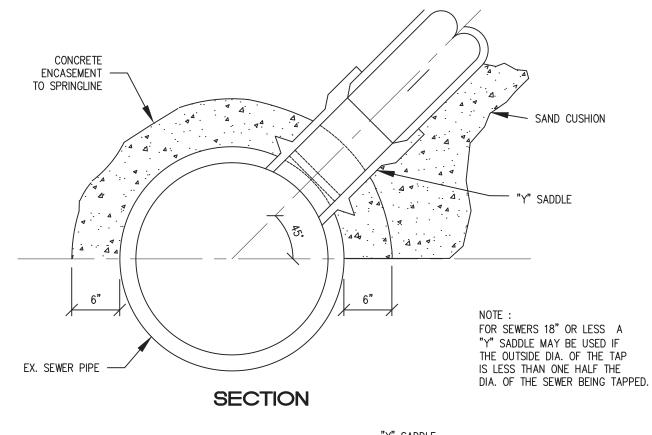
UNDERDRAIN AND DRAINAGE AGGREGATE TO

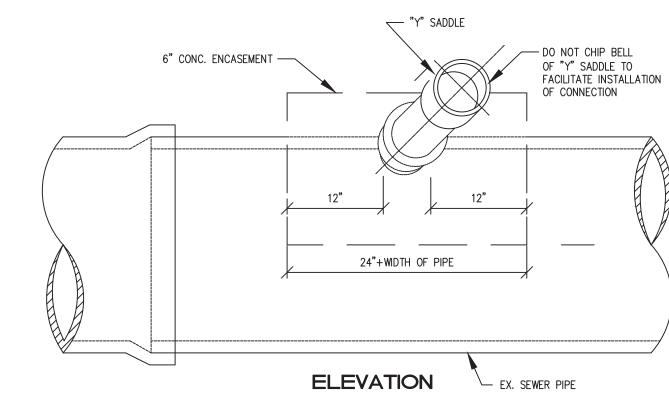
BE PAID FOR AS UNDERDRAIN, SUBBASE, 4 INCH

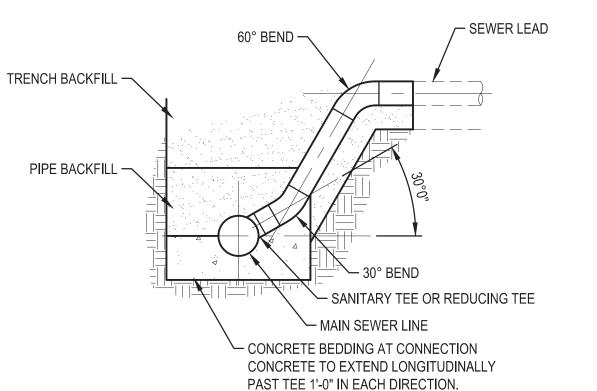
FOR STRUCTURES LOCATED IN LAWN AREAS,



MANHOLE CONSTRUCTED OVER EXISTING SEWER SECTION AND ELEVATION







SEWER TAP, MODIFIED - TEE CONNECTION

Eastern Market District Improvements Eastern Market

Detroit, Michigan

Owners:

City of Detroit



Eastern Market Corporation

## **SMITHGROUPJJR**

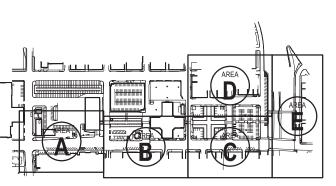
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DIDDING DOCUMENTS		
BIDDING DOCUMENTS	_5	MAY.21.2013
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100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013

50% CONSTRUCTION DOCUMENTS 0 NOV.05.2012

SEALS AND SIGNATURES

KEY PLAN PROJECT NORTH



UTILITY DETAILS

GRAPHIC SCALE TAKES PRECEDENCE AS NOTED FULL SIZE SCALE (24x36) 50565.000

PROJECT NUMBER

DRAWING NUMBER

(AS SPECIFIED ON PLANS) WATER MAINS UNDER ROADBED OR WITHIN INFLUENCE OF ROADBED

LIMITS OF

Ç STRUCTURE \* IN PAVED AREAS USE HINGED BOLTED GRATE. STA / OFFSET LOCATION FOR STRUCTURES LOCATED IN LAWN AREAS, — FLAT GRATE AND FRAME \* USE EJIW 1020, TYPE 01 BEEHIVE FRAME AND 1'-6" GRATE OR APPROVED EQUAL. \* FRAME AND GRATE PAID FOR AS \_DR - LEVELING BRICK STRUCTURE COVER, MODIFIED. 3 COURSES MAX. FLAT SLAB TOP CONCRETE FILL 4" UNDERDRAIN - CUT AND REMOVE EXISTING PIPE AS REQUIRED TO (WHERE SHOWN INSTALL NEW INLET AND TRAP (WHERE SHOWN ON UTILITY PLANS) ( ) <del>--</del>| CONNECTING TO EXISTING PIPE ON UTILITY PLANS) COUPLING AS REQUIRED TO PRECAST CONCRETE CONNECT NEW AND EXISTING - SANITARY BOOT STRUCTURE. PIPES, TYP. (WHERE SHOWN CONNECTION, TYP. ON UTILTY PLANS) EXISTING PIPE - INVERT ELEVATION \_ EXISTING PIPE (WHERE (WHERE SHOWN NOTED ON PLANS SHOWN ON UTILITY PLANS) ON UTILITY PLANS)

(TRENCH DETAIL B)

DIAMETER

**ILITY TRENCHES** 

FLOW ---

DR STRUCTURE, 48 INCH DIA

NEW SEWER PIPE MATCH —

EXISTING MATERIAL AND

SLOPE (WHERE SHOWN

ON UTILITY PLANS)

- ENCASE COUPLING WITH LEAN CONCRETE AS DIRECTED BY FIELD

ALL SEWER PIPE, FITTINGS, COUPLINGS AND TRENCH BACKFILL ENCASEMENTS TO BE PAID FOR AS SEWER, CLASS A, \_ INCH, TRENCH B, MODIFIED. - 21AA AGGREGATE BASE TO BE PAID FOR AS PART OF DRAINAGE STRUCTURE.

FLOW —

— WYE

- OUTLET PIPE TRAP

− 22.5° BEND

PER CITY STANDARDS

UNDERDRAIN AND DRAINAGE AGGREGATE TO BE PAID FOR AS UNDERDRAIN, SUBBASE, 4 INCH

INSPECTOR

TYP

DR STRUCTURE, 24 INCH DIA

FLAT GRATE AND FRAME \* USE EJIW 1020, TYPE 01 BEEHIVE FRAME AND 1'-6" GRATE OR APPROVED EQUAL. \* FRAME AND GRATE PAID FOR AS DR LEVELING BRICK STRUCTURE COVER, MODIFIED. 3 COURSES MAX. CONCRETE FILL · 4" UNDERDRAIN — CUT AND REMOVE EXISTING PIPE AS REQUIRED TO (WHERE SHOWN INSTALL NEW INLET AND TRAP (WHERE SHOWN ON UTILITY PLANS) 00-CONNECTING TO EXISTING PIPE ON UTILITY PLANS) - COUPLING AS REQUIRED TO PRECAST CONCRETE -CONNECT NEW AND EXISTING - SANITARY BOOT STRUCTURE. PIPES, TYP. (WHERE SHOWN CONNECTION, TYP. ON UTILTY PLANS) EXISTING PIPE - INVERT ELEVATION EXISTING PIPE (WHERE (WHERE SHOWN NOTED ON PLANS SHOWN ON UTILITY PLANS) ON UTILITY PLANS) - BULKHEAD FLOW — FLOW —— NEW SEWER PIPE MATCH -- ENCASE COUPLING WITH EXISTING MATERIAL AND LEAN CONCRETE AS SLOPE (WHERE SHOWN DIRECTED BY FIELD ON UTILITY PLANS) - OUTLET PIPE TRAP INSPECTOR PER CITY STANDARDS ─ 22.5° BEND ALL SEWER PIPE, FITTINGS, COUPLINGS AND ENCASEMENTS TO BE PAID FOR AS TRENCH BACKFILL SEWER, CLASS A, \_ INCH, TRENCH B,

STRUCTURE

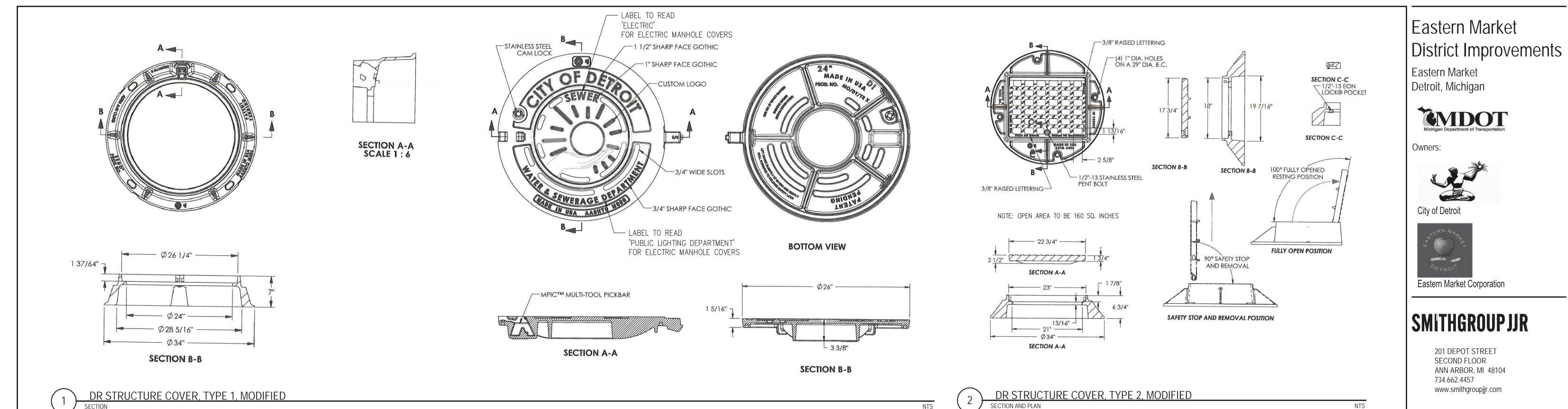
STA / OFFSET LOCATION

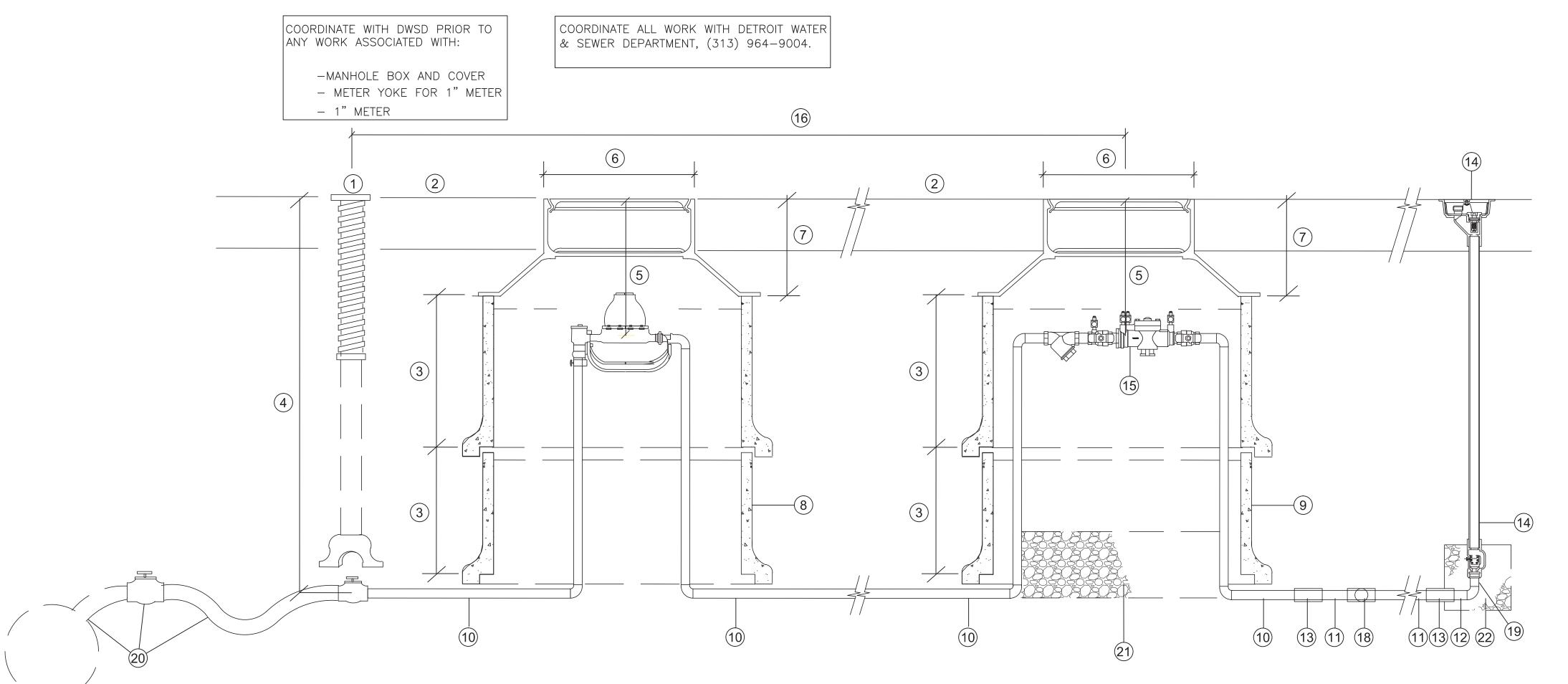
2'-0" - 21AA AGGREGATE BASE DIAMETER TO BE PAID FOR AS PART OF DRAINAGE STRUCTURE.

30° BEND TO BE FULLY BEDDED IN CONCRETE

SEWER TAP, MODIFIED

SECTION AND ELEVATION





WATER SERV SYSTEM

- SHUT OFF VALVE, CURB BOX AND CORPORATION STOP COORDINATE WORK WITH DWSD PRIOR TO INITIATING WORK
- GROUND LEVEL
- 3 24"
- (4) NOT LESS THAN 60"
- 6 20" MINIMUM
- 7 9.5"
- 8) 20" CONCRETE CROCK
- 9) 30" CONCRETE CROCK
- 1" TYPE 'K' COPPER PIPE
- (11) 1" POLYETHYLENE PIPE TO HYDRANTS
- 1" TYPE 'M' SOLDER X 1" MPT TRANSITIONAL FITTING
- 13 1" MPT X 1-1/2" SLIP PVC COUPLER
- NON-FREEZE IN-GROUND HYDRANT WITH LOCKING COVER AND 3/4"
- HOSE CONNECTION. 60" BURY DEPTH 1" RPZ BACKFLOW PREVENTER ASSEMBLY INCLUDING VALVES.
- CONSTRUCT FOR EASY REMOVAL PROVIDE 1" BALL VALVES, UNIONS AND/OR COUPLINGS AS NECÉSSARY
- (16) MAXIMUM 15' FROM CURB BOX
- (17) EXISTING CITY WATER MAIN
- (18) TEE TO ADDITIONAL HYDRANTS.
- (19) FITTING TO FEMALE NPT INLET
- 20 WATER MAIN TAP, CORPORATION STOP AND GOOSENECK AS COORDINATED WITH DWSD
- 12" THICK LAYER OF 34R DRAINAGE AGGREGATE
- 12"x12"x12" 34R DRAINAGE AGGREGATE

FULL SIZE SCALE (24x36) PROJECT NUMBER

of 497



MDOT



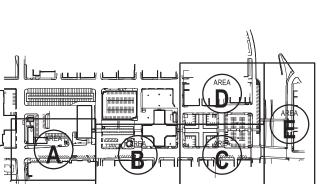
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50% CONSTRUCTION DOCUMENTS	0	NOV.05.201
		-

SEALS AND SIGNATURES

KEY PLAN

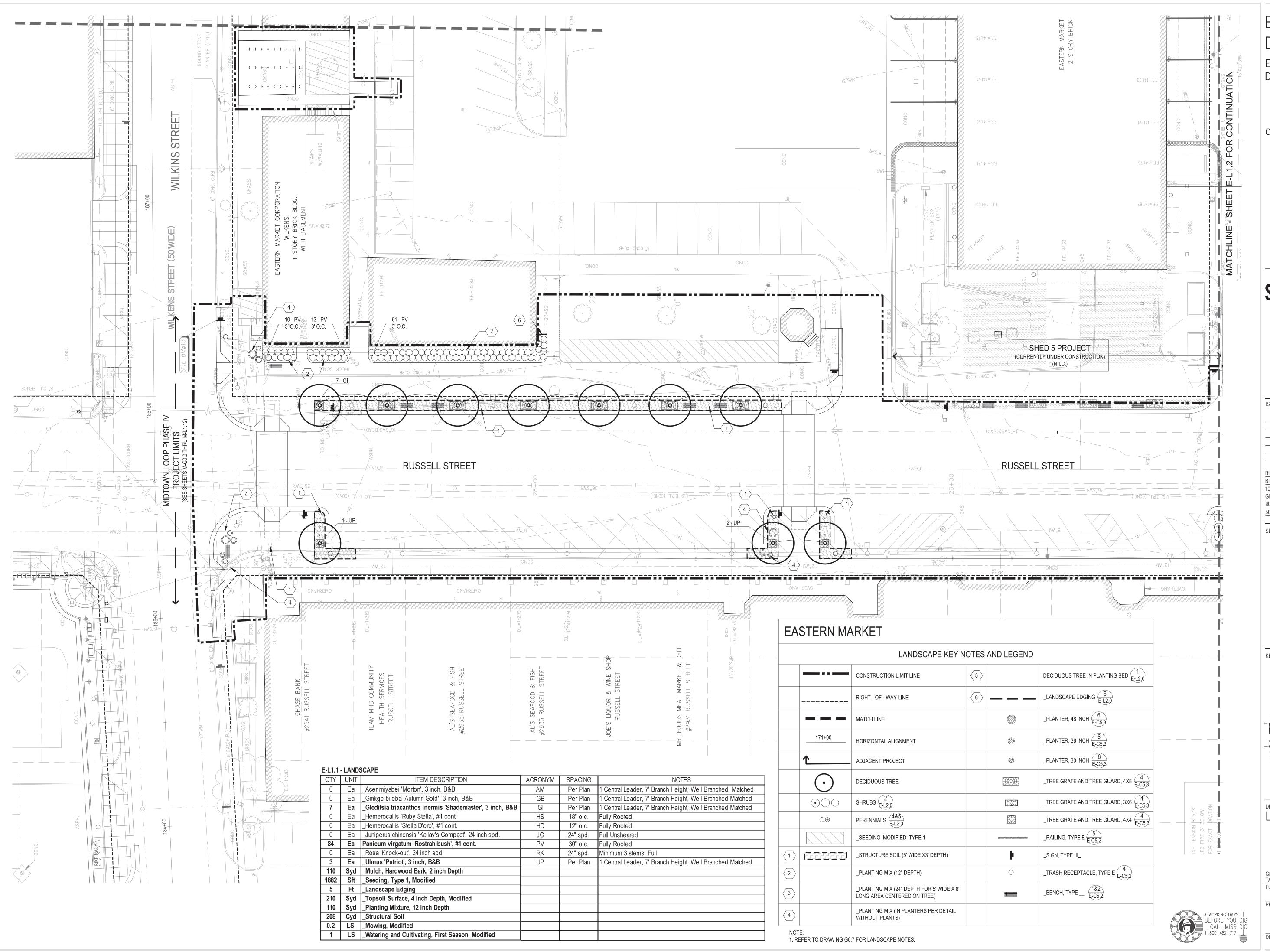


PROJECT NORTH

UTILITY DETAILS

GRAPHIC SCALE TAKES PRECEDENCE AS NOTED 50565.000

DRAWING NUMBER



Eastern Market Detroit, Michigan







Eastern Market Corporation

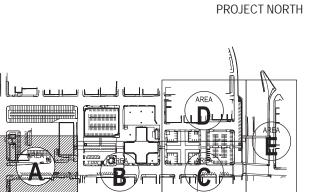
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SEALS AND SIGNATURES

KEY PLAN

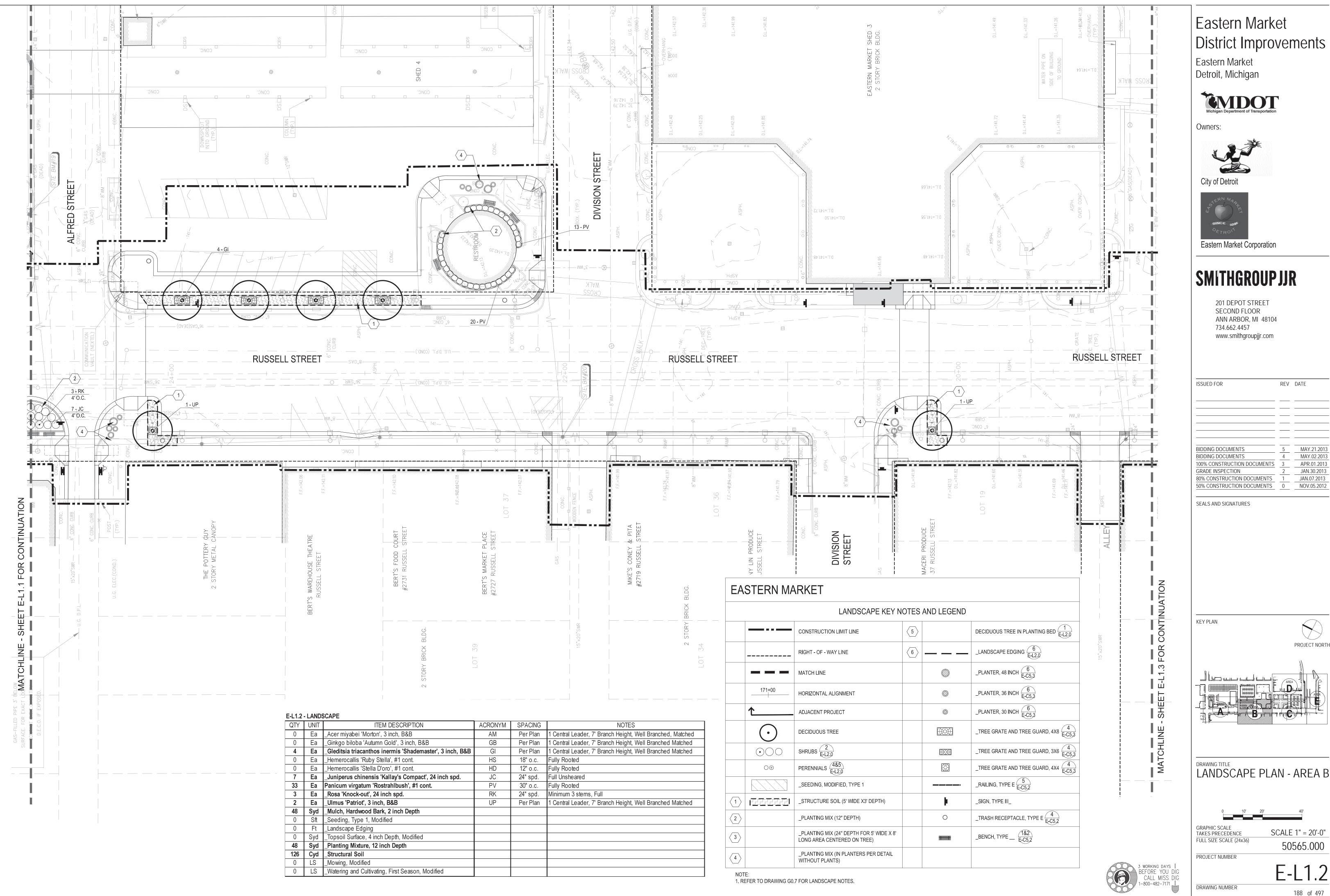


LANDSCAPE PLAN - AREA A



PROJECT NUMBER

DRAWING NUMBER



Eastern Market Detroit, Michigan









Eastern Market Corporation

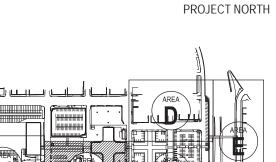
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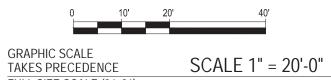
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REV DATE

SEALS AND SIGNATURES



LANDSCAPE PLAN - AREA B

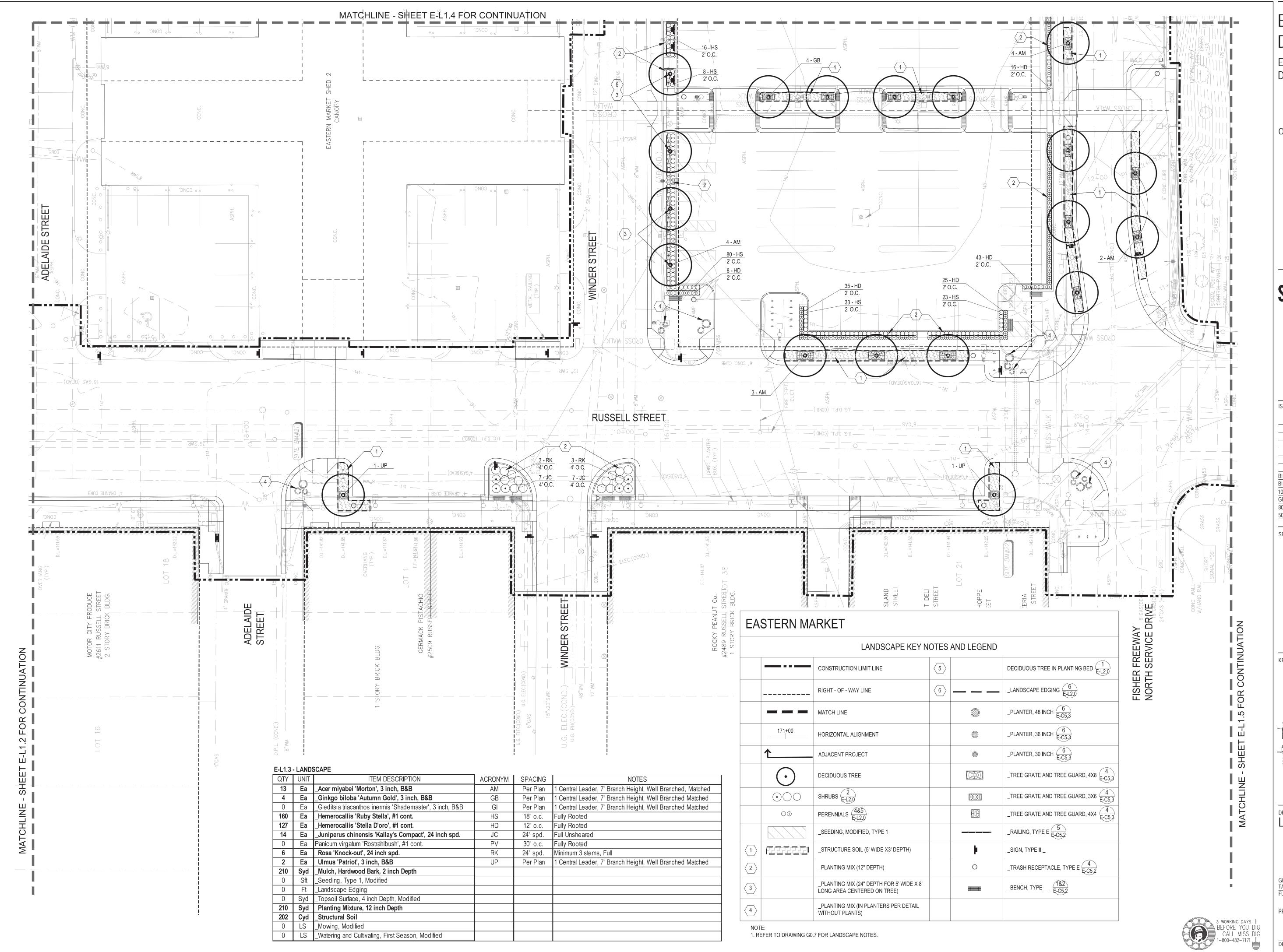


FULL SIZE SCALE (24x36)

PROJECT NUMBER

DRAWING NUMBER

188 of 497



Eastern Market Detroit, Michigan



Owners:





**Eastern Market Corporation** 

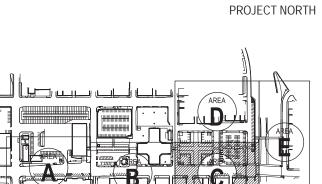
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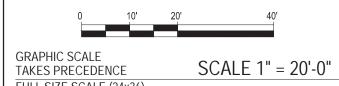
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BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013
80% CONSTRUCTION DOCUMENTS	1	JAN.07.2013
50% CONSTRUCTION DOCUMENTS	0	NOV.05.2012

SEALS AND SIGNATURES

**KEY PLAN** 



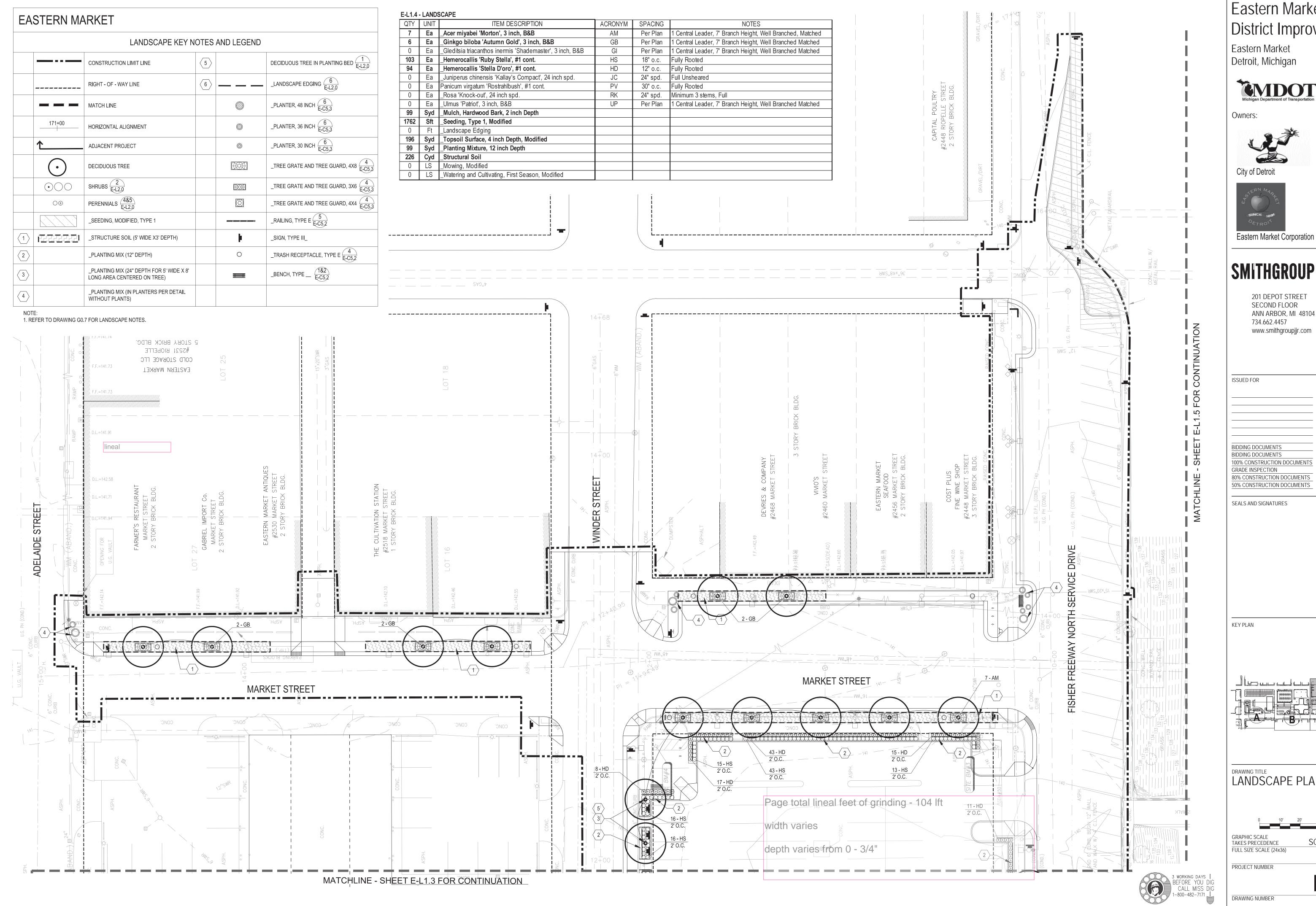
LANDSCAPE PLAN - AREA C



FULL SIZE SCALE (24x36) PROJECT NUMBER

50565.000

DRAWING NUMBER







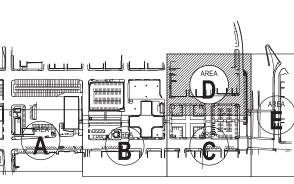


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REV DATE

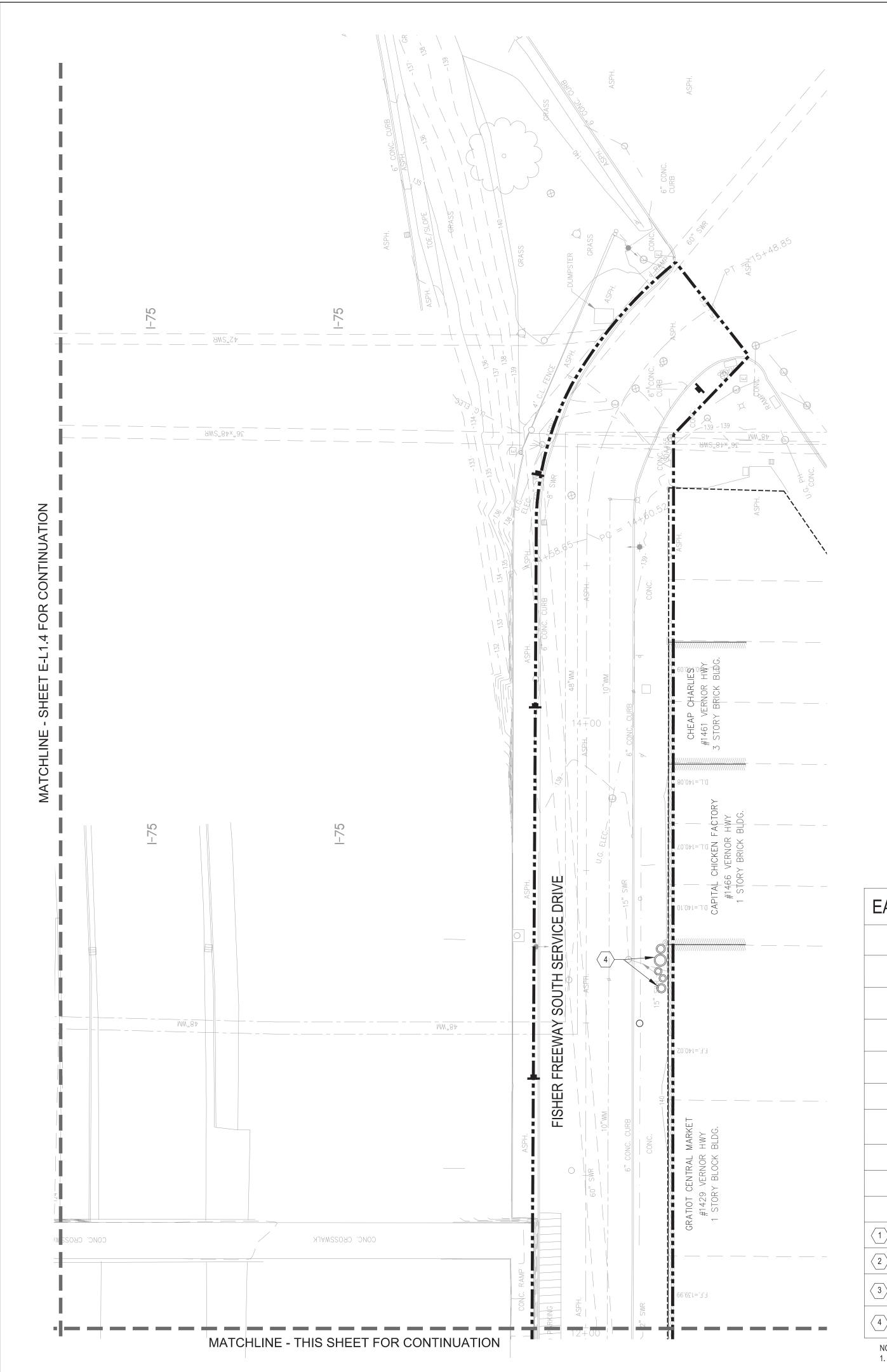


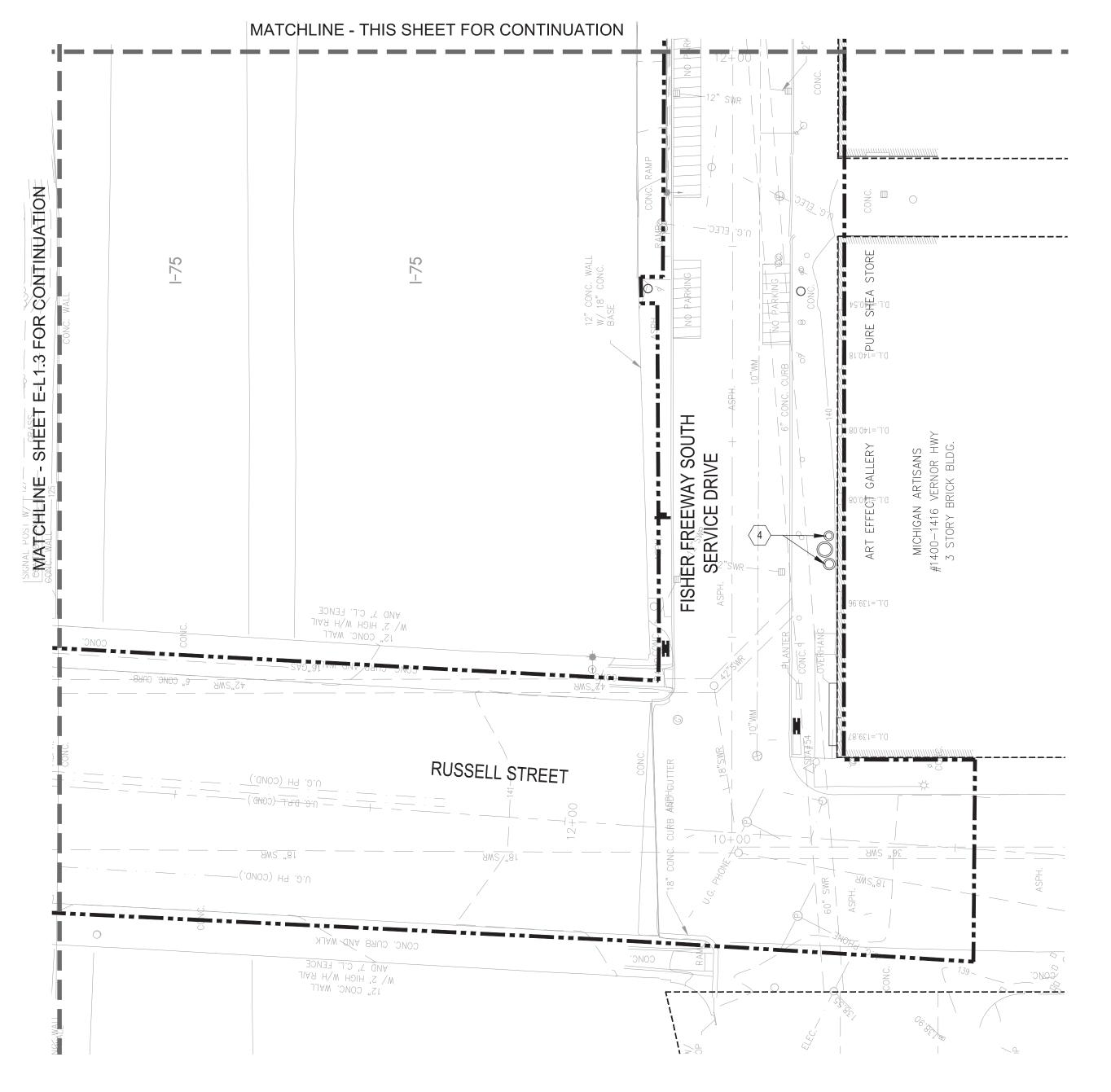
PROJECT NORTH

LANDSCAPE PLAN - AREA D



190 of 497





EASTERN MARKET									
	LANDSCAPE KEY NOTES AND LEGEND								
		CONSTRUCTION LIMIT LINE	5		DECIDUOUS TREE IN PLANTING BED E-L2.0				
		RIGHT - OF - WAY LINE	6		_LANDSCAPE EDGING 6 E-L2.0				
		MATCH LINE			_PLANTER, 48 INCH 6 E-C5.3				
	171+00	HORIZONTAL ALIGNMENT			_PLANTER, 36 INCH 6 E-C5.3				
	<b>↑</b>	ADJACENT PROJECT		<b>©</b>	_PLANTER, 30 INCH 6 E-C5.3				
	$\odot$	DECIDUOUS TREE			_TREE GRATE AND TREE GUARD, 4X8				
	$\odot$	SHRUBS E-L2.0			_TREE GRATE AND TREE GUARD, 3X6				
	$\bigcirc \oplus$	PERENNIALS (4&5) E-L2.0			_TREE GRATE AND TREE GUARD, 4X4 (E-C5,3)				
		_SEEDING, MODIFIED, TYPE 1			_RAILING, TYPE E				
1		_STRUCTURE SOIL (5' WIDE X3' DEPTH)		þ	_SIGN, TYPE III_				
2		_PLANTING MIX (12" DEPTH)		0	_TRASH RECEPTACLE, TYPE E				
3		_PLANTING MIX (24" DEPTH FOR 5' WIDE X 8' LONG AREA CENTERED ON TREE)		<b>=</b>	_BENCH, TYPE				

NOTE: 1. REFER TO DRAWING G0.7 FOR LANDSCAPE NOTES.

\_PLANTING MIX (IN PLANTERS PER DETAIL

WITHOUT PLANTS)

## E-L1.5 - LANDSCAPE

QTY	UNIT	ITEM DESCRIPTION
0	Ea	_Acer miyabei 'Morton', 3 inch, B&B
0	Ea	_Ginkgo biloba 'Autumn Gold', 3 inch, B&B
0	Ea	_Gleditsia triacanthos inermis 'Shademaster', 3 inch, B&B
0	Ea	_Hemerocallis 'Ruby Stella', #1 cont.
0	Ea	_Hemerocallis 'Stella D'oro', #1 cont.
0	Ea	_Juniperus chinensis 'Kallay's Compact', 24 inch spd.
0	Ea	Panicum virgatum 'Rostrahlbush', #1 cont.
0	Ea	_Rosa 'Knock-out', 24 inch spd.
0	Ea	_Ulmus 'Patriot', 3 inch, B&B
0	Syd	_Mulch, Hardwood Bark, 2 inch Depth
0	Sft	_Seeding, Type 1, Modified
0	Ft	_Landscape Edging
0	Syd	_Topsoil Surface, 4 inch Depth, Modified
0	Syd	_Planting Mixture, 12 inch Depth
0	Cyd	_Structural Soil
0	LS	_Mowing, Modified
0	LS	_Watering and Cultivating, First Season, Modified

# Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

# **SMITHGROUPJJR**

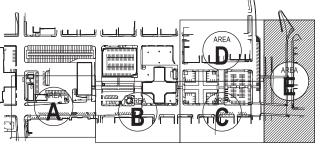
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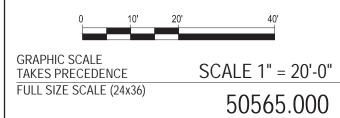
SEALS AND SIGNATURES

**KEY PLAN** 





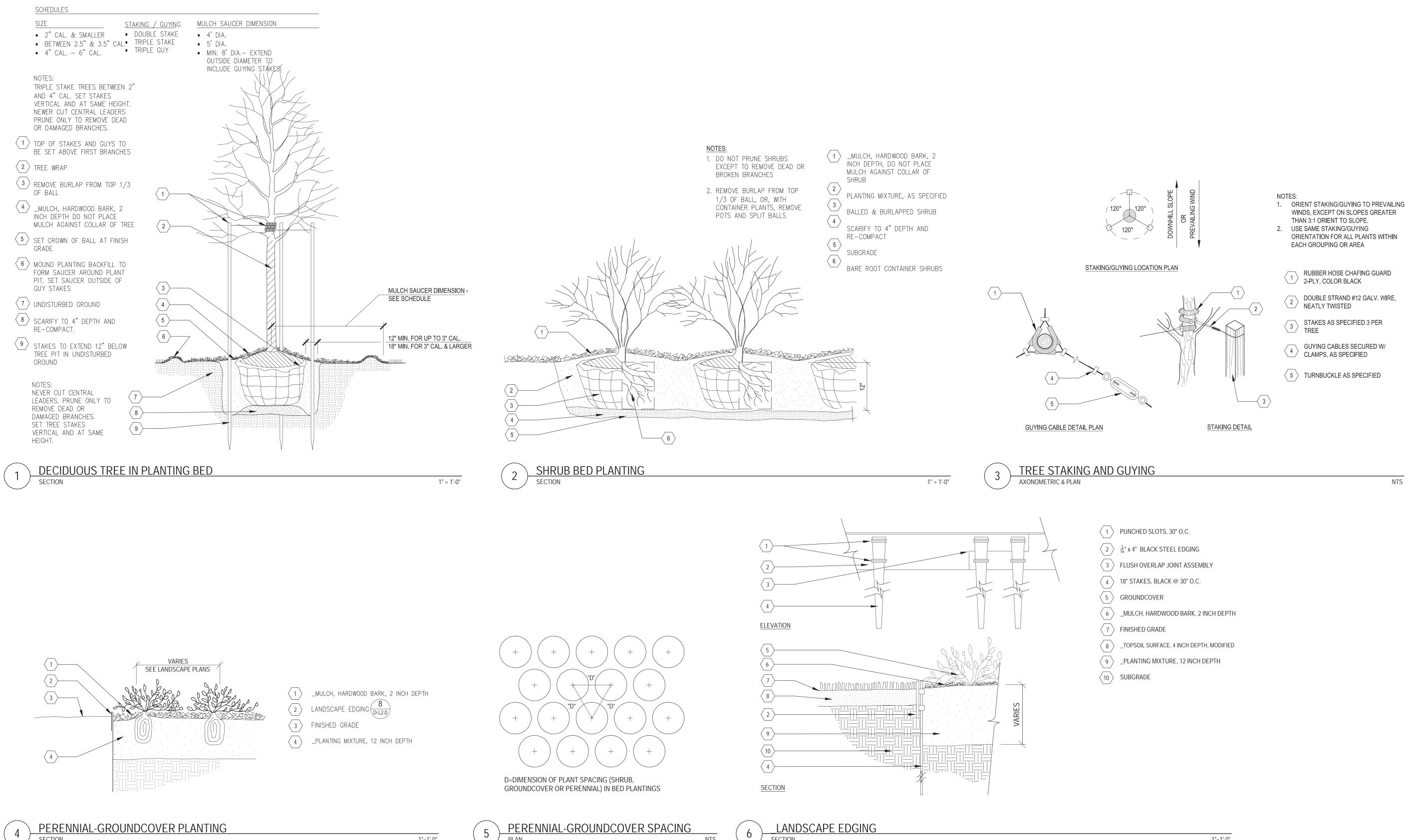
LANDSCAPE PLAN - AREA E



FULL SIZE SCALE (24x36) PROJECT NUMBER

3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171

DRAWING NUMBER





Eastern Market
Detroit, Michigan



Owners:







Eastern Market Corporation

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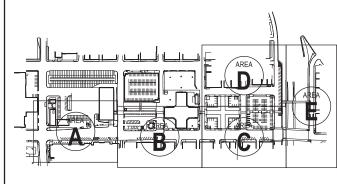
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SEALS AND SIGNATURES

KEY PLAN

PROJECT NORTH



LANDSCAPE DETAILS 1

GRAPHIC SCALE TAKES PRECEDENCE FULL SIZE SCALE (24x36)

PROJECT NUMBER

50565.000

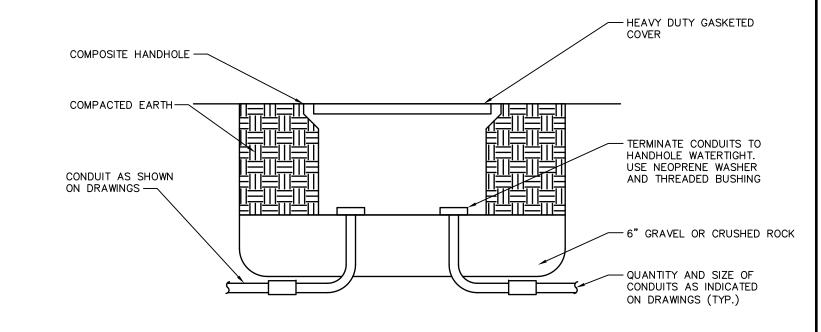
DRAWING NUMBER

3/4"x10'-0"

COPPER WELD

GROUND ROD -

LIGHTING FIXTURE SCHEDULE TYPE DESCRIPTION PAY ITEM NUMBER LAMPS QUANTITY/TYPE | VOLTS | MOUNTING REMARKS CATALOG NUMBÉR EURO STYLED CAST ALUMINUM POLE MOUNTED 16 FOOT MOUNTING HEIGHT; POLES HAVE THE CAPACITY OF ADDING \_FIXTURE TYPE E1 HOLOPHANE 105W LED E1 PEDESTRIAN LIGHT WITH LED FLAT GLASS OPTICAL ASSEMBLY; TYPE V SYMMETRIC FULL CUTOFF; HALLBROOK EXTENDED COVER STYLE 525MA DRIVER BANNERS IN THE FUTURE) 16 FOOT MOUNTING HEIGHT PARKING LOT EURO STYLED CAST ALUMINUM POLE MOUNTED POLES WITH GFCI RECEPTACLE IN \_FIXTURE TYPE E1R (E1R) PEDESTRIAN LIGHT WITH LED FLAT GLASS OPTICAL HOLOPHANE POLE 105W LED ASSEMBLY: TYPE V SYMMETRIC FULL CUTOFF; WEATHERPROOF ENCLOSURE (POLES HAVE 6000K THE CAPACITY OF ADDING BANNERS) HALLBROOK EXTENDED COVER STYLE 525MA DRIVER EURO STYLED CAST ALUMINUM POLE MOUNTED 20 FOOT MOUNTING HEIGHT (POLES PEDESTRIAN LIGHT WITH LED FLAT GLASS OPTICAL 105W LED \_FIXTURE TYPE E2 HOLOPHANE HAVE THE CAPACITY OF ADDING ASSEMBLY: TYPE V SYMMETRIC FULL CUTOFF; 6000K BANNERS WITH THE EXCEPTION OF HALLBROOK EXTENDED COVER STYLE 525MA DRIVER POLES WITH FLOODLIGHT ATTACHMENTS) EURO STYLED CAST ALUMINUM POLE MOUNTED (FOR) PEDESTRIAN LIGHT WITH LED FLAT GLASS OPTICAL HOLOPHANE 105W LED 30 FOOT MOUNTING HEIGHT PARKING \_FIXTURE TYPE E2R ASSEMBLY: TYPE V SYMMETRIC FULL CUTOFF; LOT POLES WITH GFCI RECEPTACLE IN 6000K 525MA DRIVER WEATHERPROOF ENCLOSURE HALLBROOK EXTENDED COVER STYLE MOUNTED ON BACK OF SELECT POLES \_FIXTURE TYPE E3  $\langle E3 \rangle$  | D-SERIES SIZE 2 LED FLOOD LUMINAIRE LITHONIA LIGHTING TENON FOUR COB ENGINES FOR ADDITIONAL AREA LIGHTING FOR MURAL ON SERVICE DRIVE



\_HANDHOLE, TYPE 24

1. USE 24" X 24" SIZE UNLESS NOTED OTHERWISE ON DRAWINGS

SYMBOLS

GFCI RECEPTACLE WITH WEATHERPROOF ENCLOSURE

JUNCTION BOX - WALL MOUNTED

DISCONNECT SWITCH (AMPERAGE/POLES). FUSED PER MANUFACTURER'S RECOMMENDATION OR AS NOTED.
"NF" INDICATES NON-FUSED.

ENCLOSED CIRCUIT BREAKER

CONDUIT TURNING UP

CONDUIT TURNING DOWN

CAPPED CONDUIT STUBBED THRO

CAPPED CONDUIT STUBBED THROUGH CONCRETE
CONDUIT ROUTED UNDERGROUND

1,3 HOME RUN, NUMERAL INDICATED CIRCUIT NUMBER

PANEL — RECESS MOUNTED, FLUSH

PANEL — SURFACE MOUNTED

GROUNDING BAR, SIZED AS INDICATED

GROUNDING ROD

POLE MOUNTED PEDESTRIAN OR STREET LIGHT, ONE OR FOUR LAMPS PER POLE (SEE FIXTURE SCHEDULE FOR TYPE)

 $\Box_{\mathrm{FL}}$  pole mounted flood light (tenon mounted on pedestrian pole)

EX-X FIXTURE TYPE WITH FIXTURE NUMBER

CB LIGHTING CONTROL BOX AND FOUNDATION

T TRANSFORMER

HH HANDHOLE

PC LIGHTING CONTROL PHOTOCELL

c LIGHTING CONTROL CONTACTOR

- DISCONNECT SWITCH

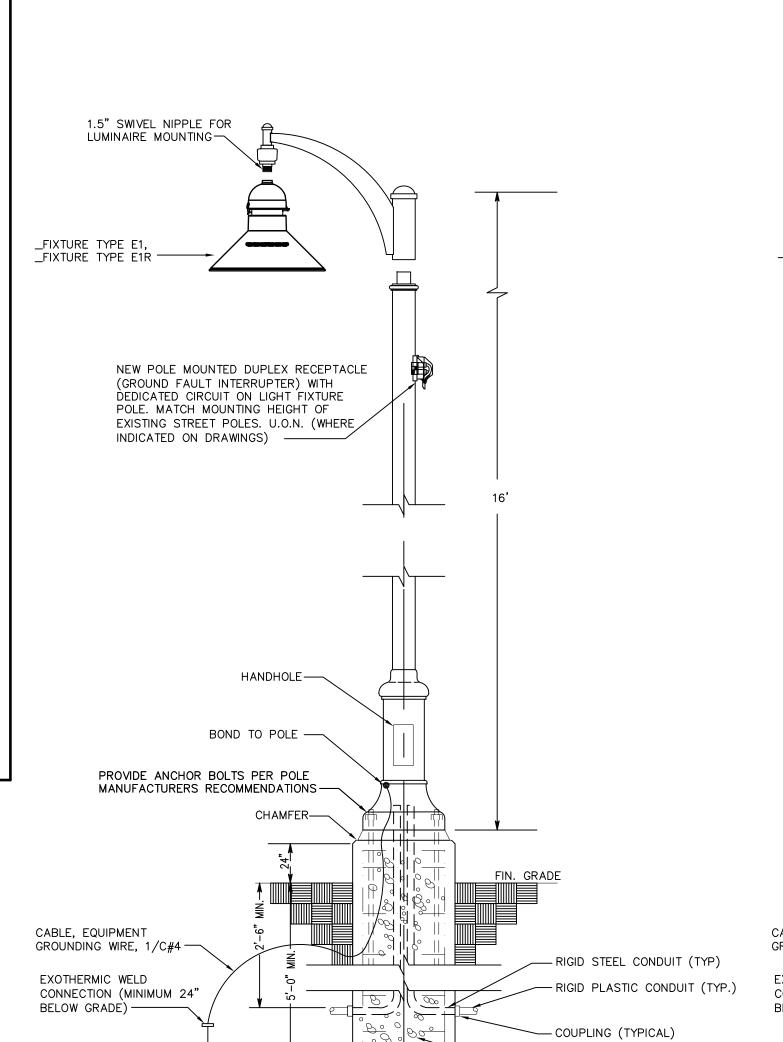
FUSED DISCONNECT SWITCH

CIRCUIT BREAKER, SIZE AS NOTED.

METER

TRANSFORMER, SIZE AS NOTED.

GROUND POINT.



**←**2'-0" DIA.→

2. PROVIDE #4 GREEN COPPER CONDUCTOR TO FIXTURE.

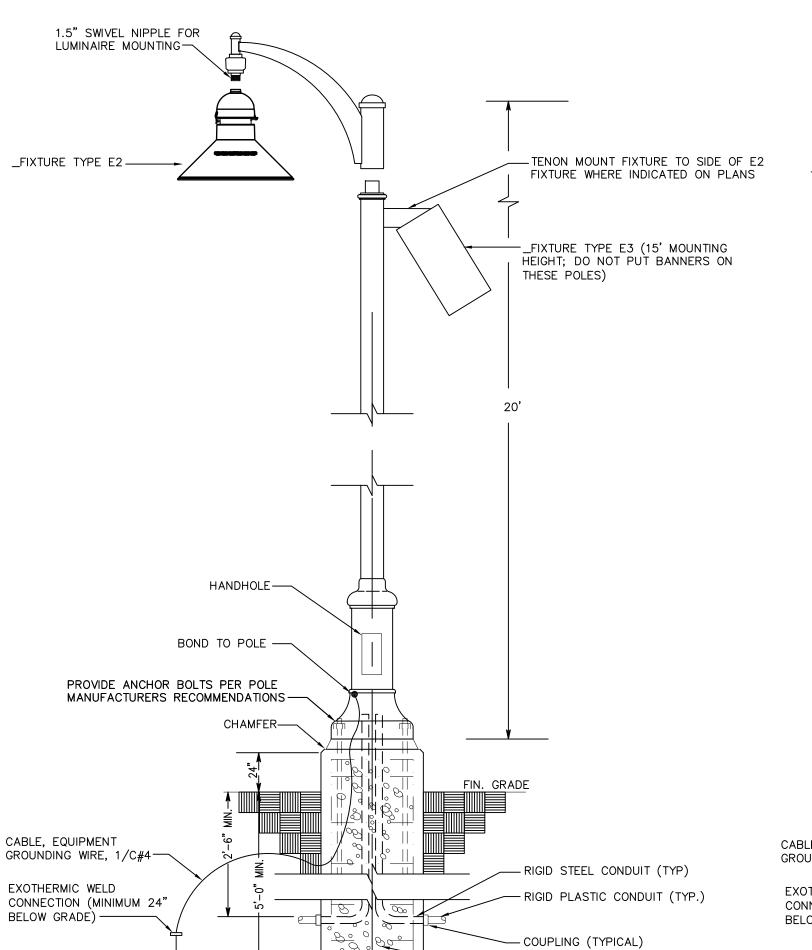
REFER TO ELECTRICAL SITE PLAN - AREAS A THRU E FOR DESIGNATED AREAS.

\_FIXTURE TYPE E1, \_FIXTURE TYPE E1R

— 4—#9 BARS X 7'—0" LONG WITH #3 CIRCULAR TIES AT 12" ON CENTERS

3/4"x10'-0"

COPPER WELD GROUND ROD —



**~**2'−0" DIA.→

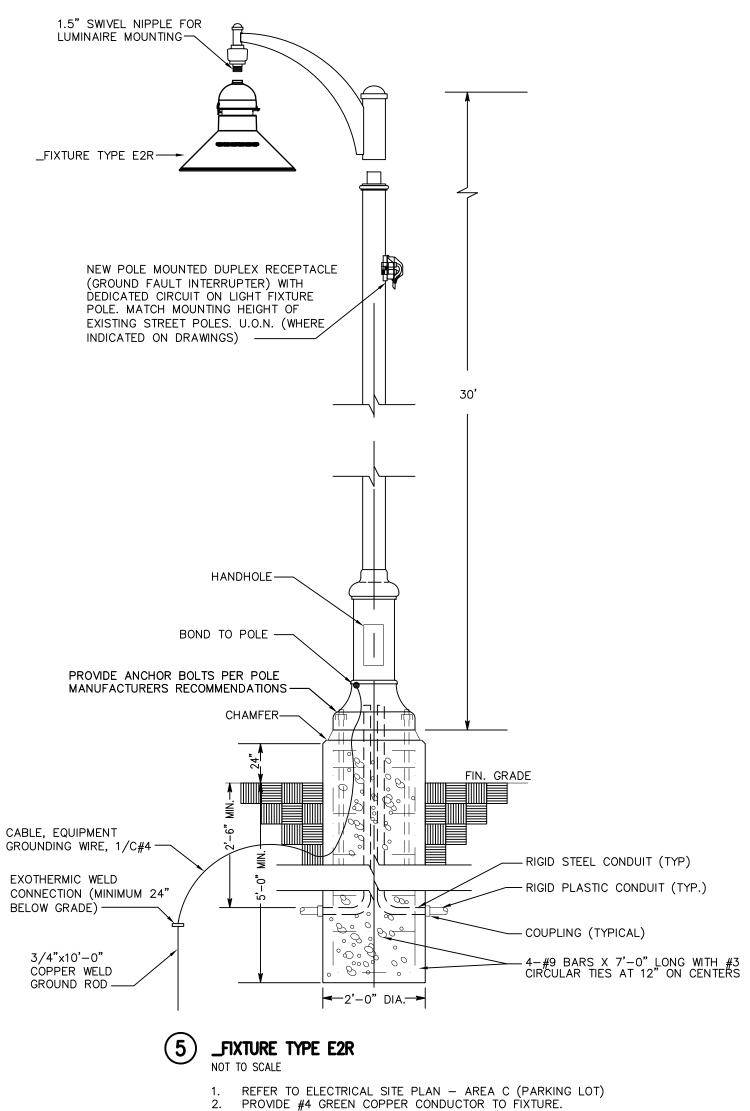
2. PROVIDE #4 GREEN COPPER CONDUCTOR TO FIXTURE.

REFER TO ELECTRICAL SITE PLAN - AREAS A THRU E FOR DESIGNATED AREAS.

\_FIXTURE TYPE E2

MASTER SWITCH S —— C —— PARKING LOT RECEPTACLES

1) MASTER SWITCH - PARKING LOT RECEPTACLES



Eastern Market
District Improvements

Eastern Market Detroit, Michigan



Owners:







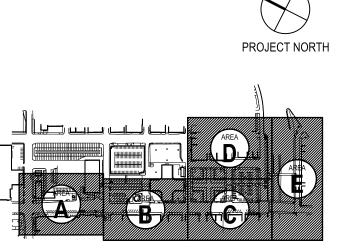
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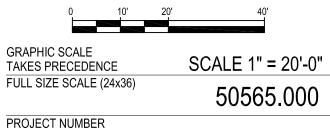
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SEALS AND SIGNATURES

KEY PLAN

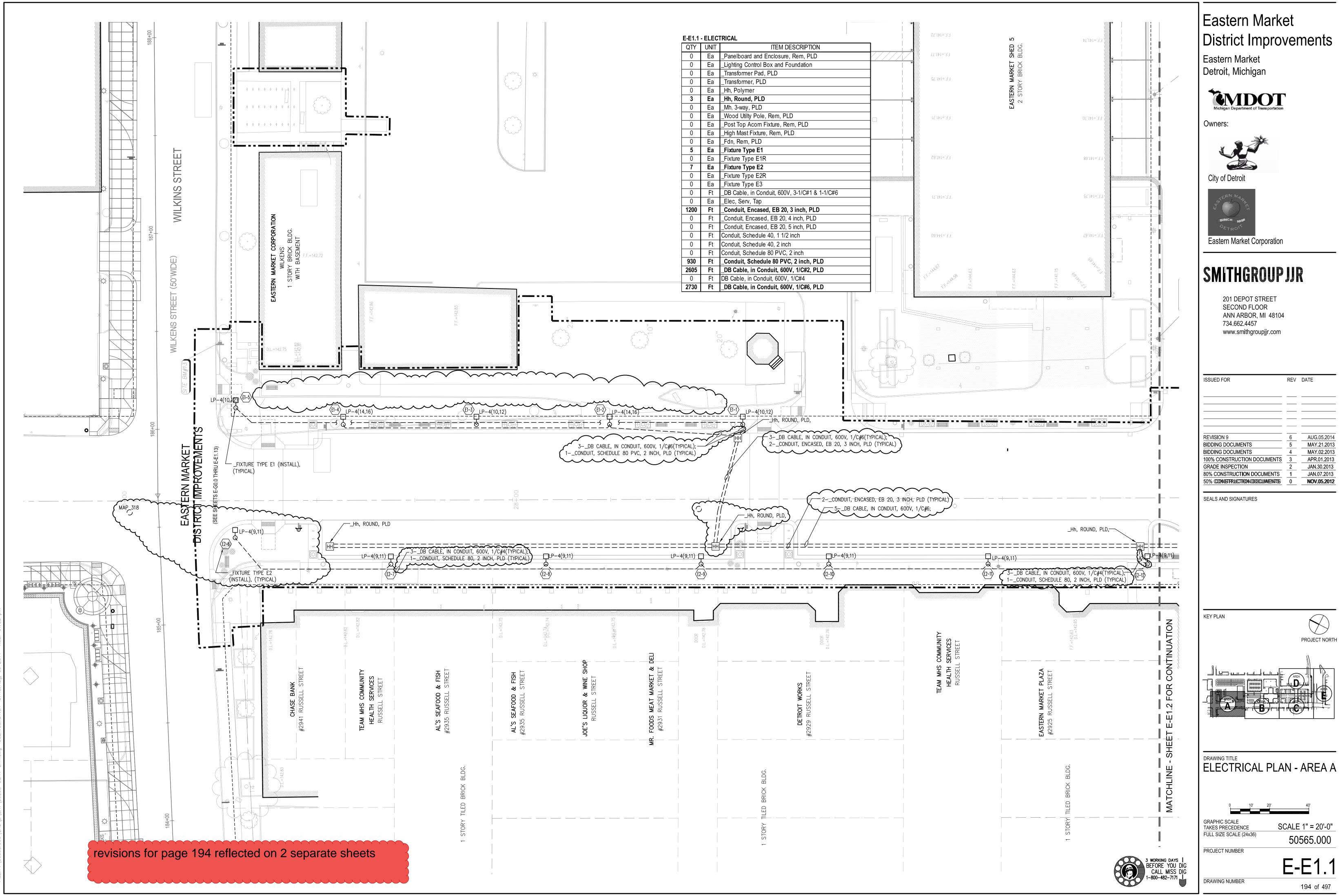


ELECTRICAL NOTES AND LEGEND



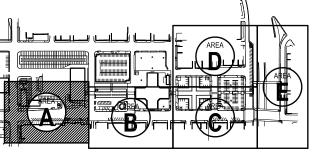
E-E1.0

3 WORKING DAYS | BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 |

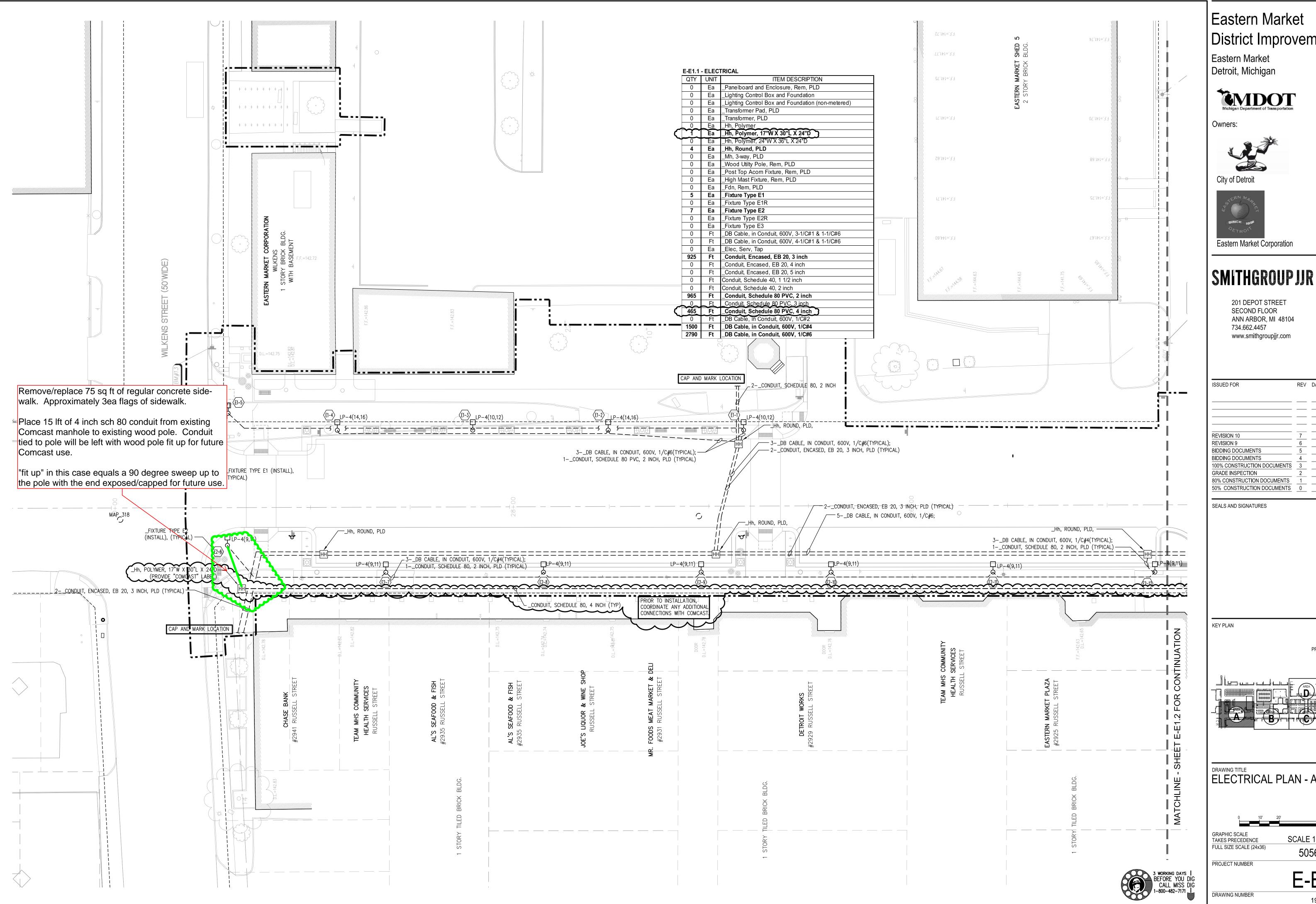


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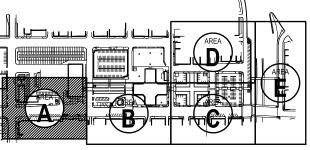


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FULL SIZ	E SCALE	(24x36)		50565.000



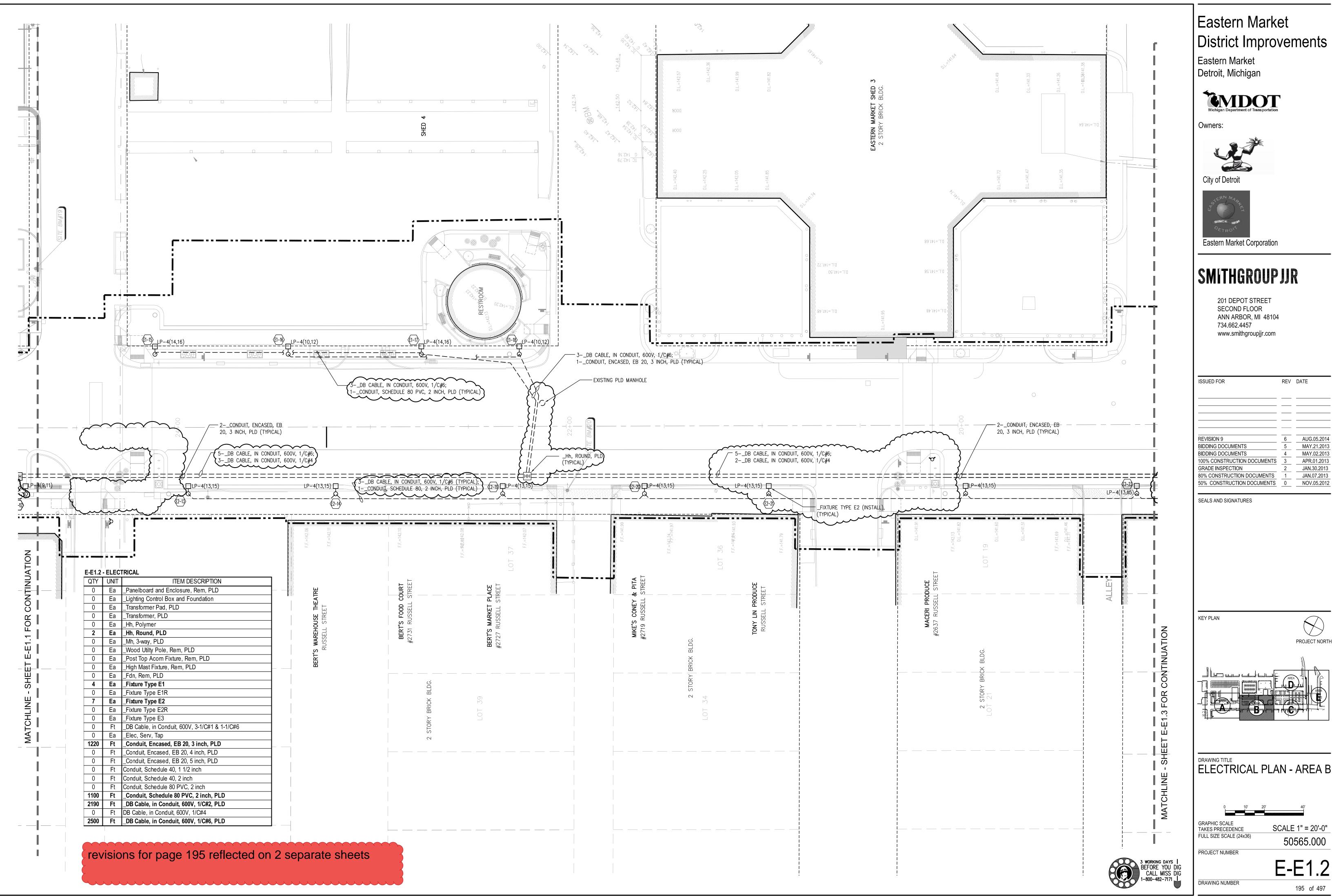
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DRAWING TITLE
ELECTRICAL PLAN - AREA A

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FULL SIZE SCALE (24x36)	50565.000









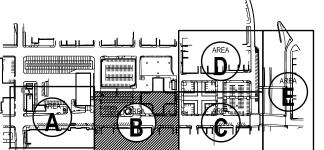
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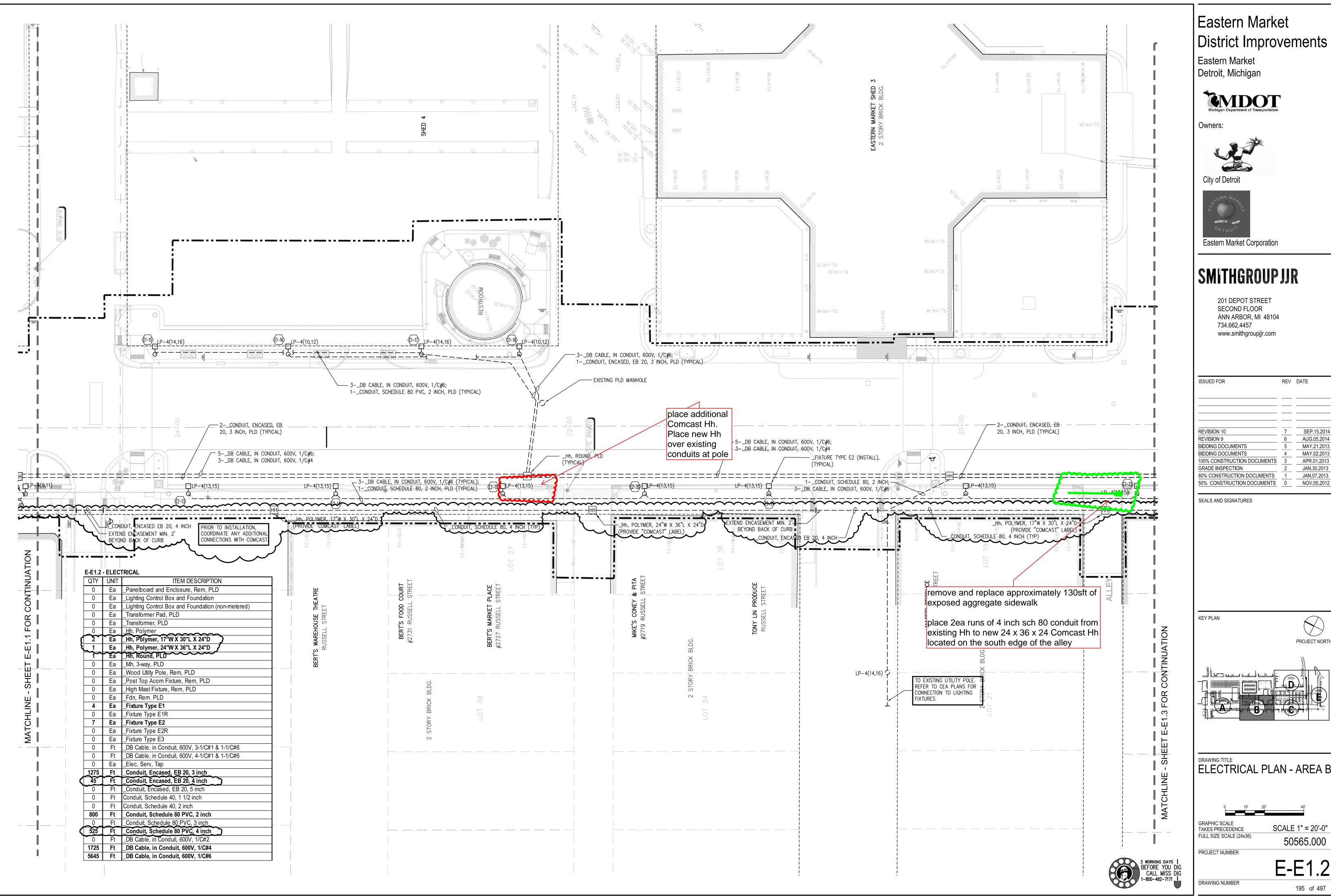
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DRAWING TITLE
ELECTRICAL PLAN - AREA B

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FULL SIZE SCALE (24x36)	50565 000



Eastern Market Detroit, Michigan







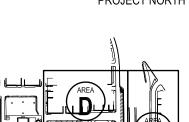


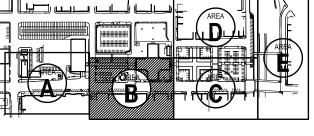
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SEALS AND SIGNATURES

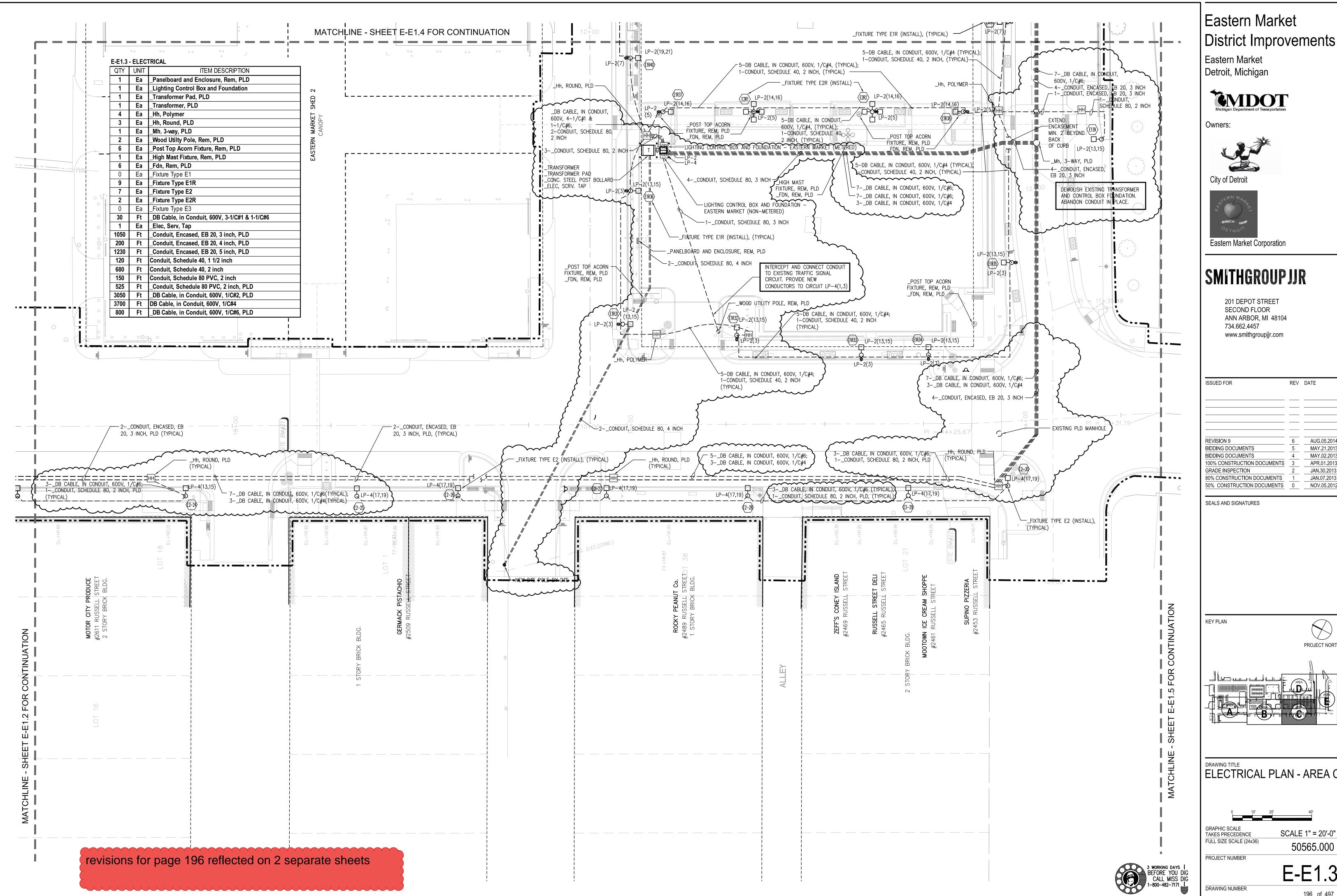




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FULL SIZE SCALE (24x36)	50565 000

20202.000 PROJECT NUMBER



Detroit, Michigan







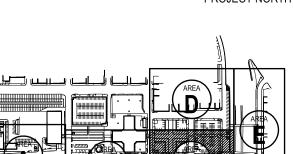


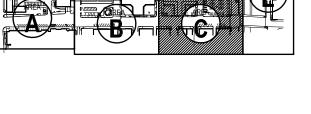
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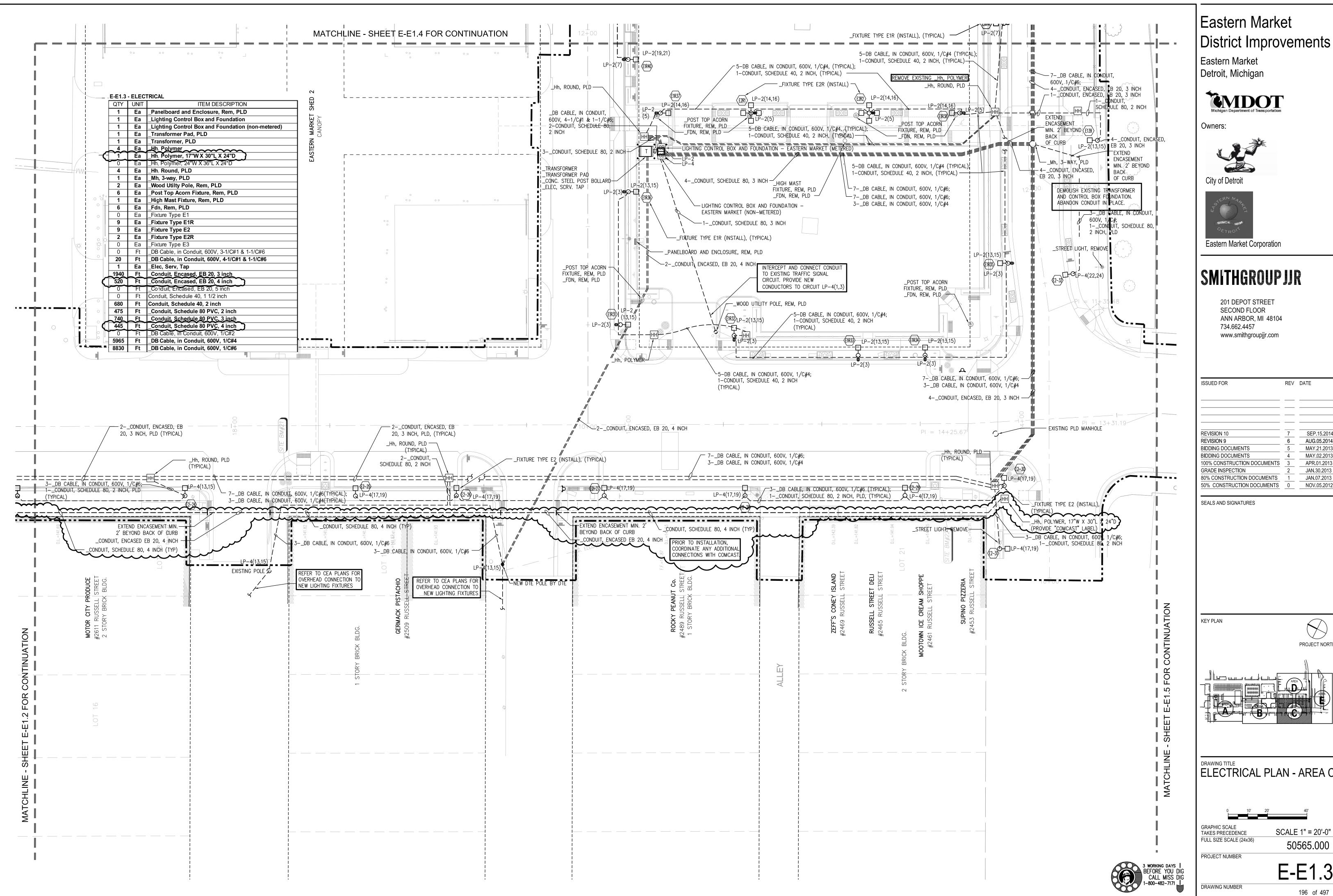
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DRAWING TITLE
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PROJECT NUMBER	



Eastern Market Detroit, Michigan







Eastern Market Corporation

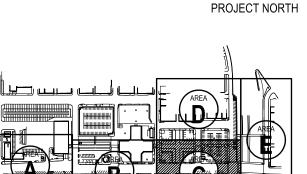
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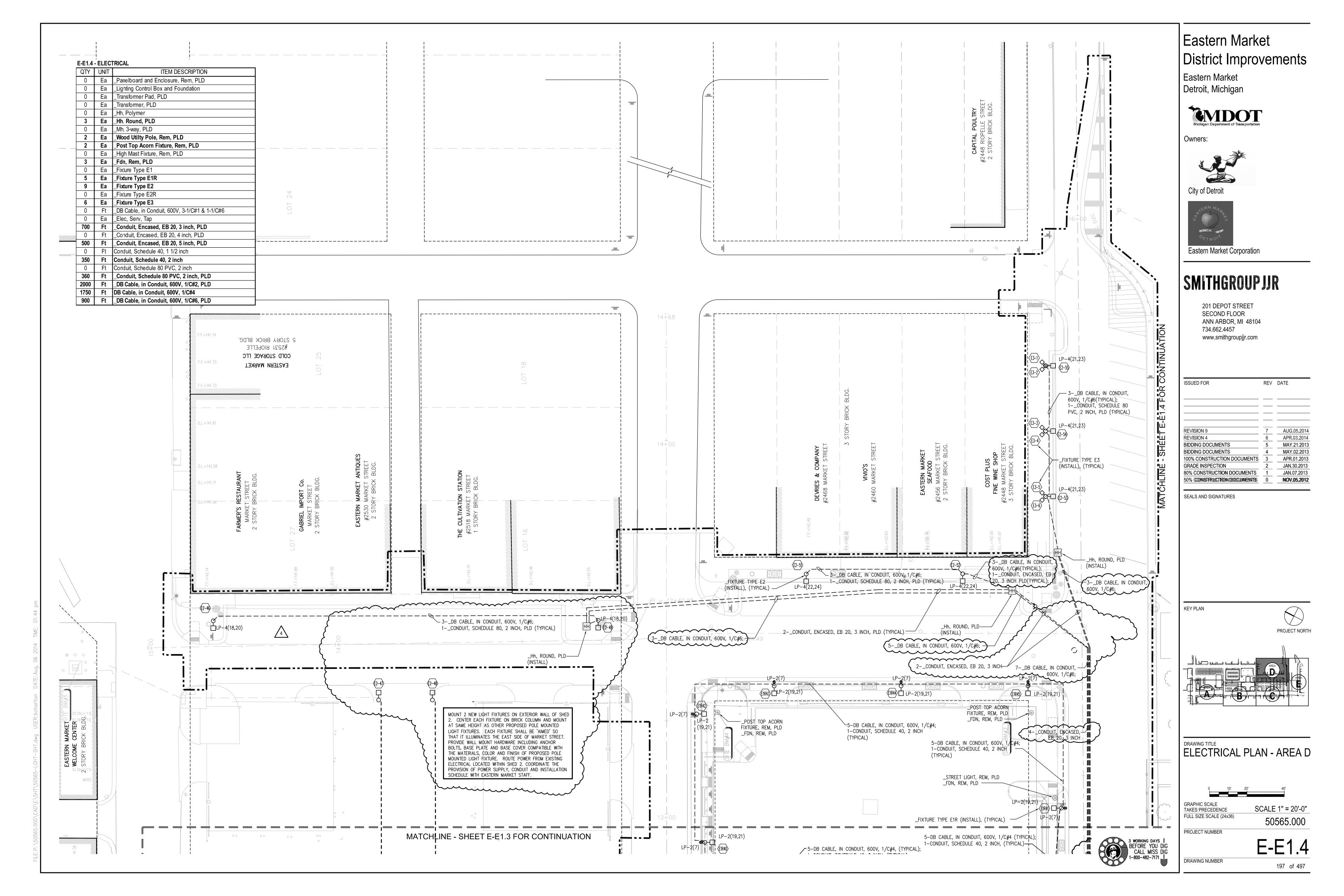
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SEALS AND SIGNATURES



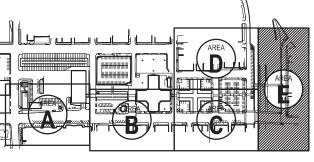
ELECTRICAL PLAN - AREA C

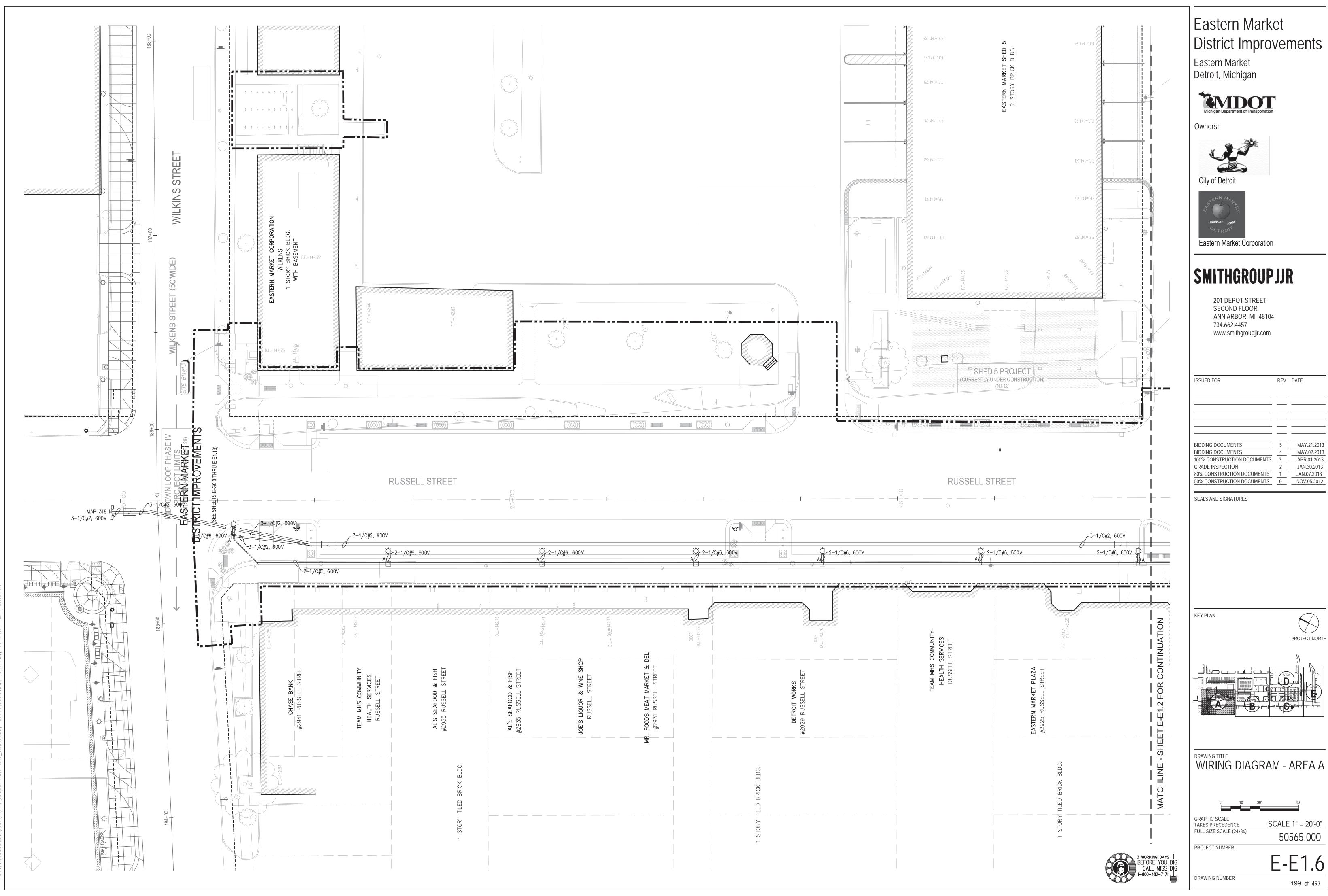
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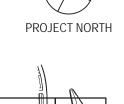


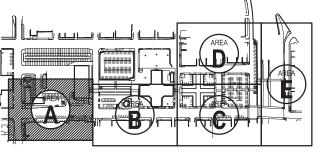




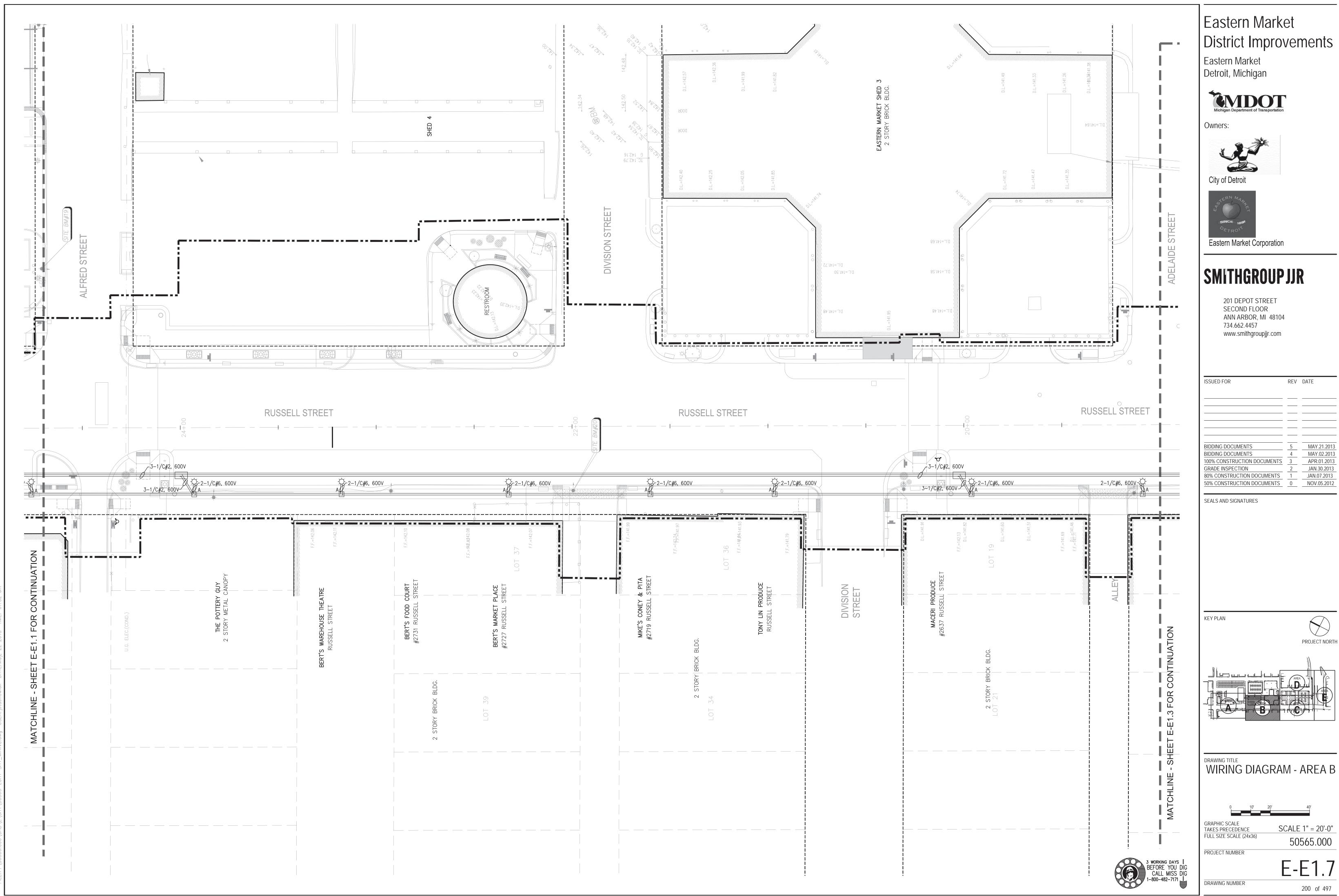
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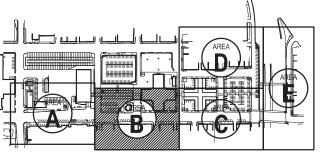


# District Improvements

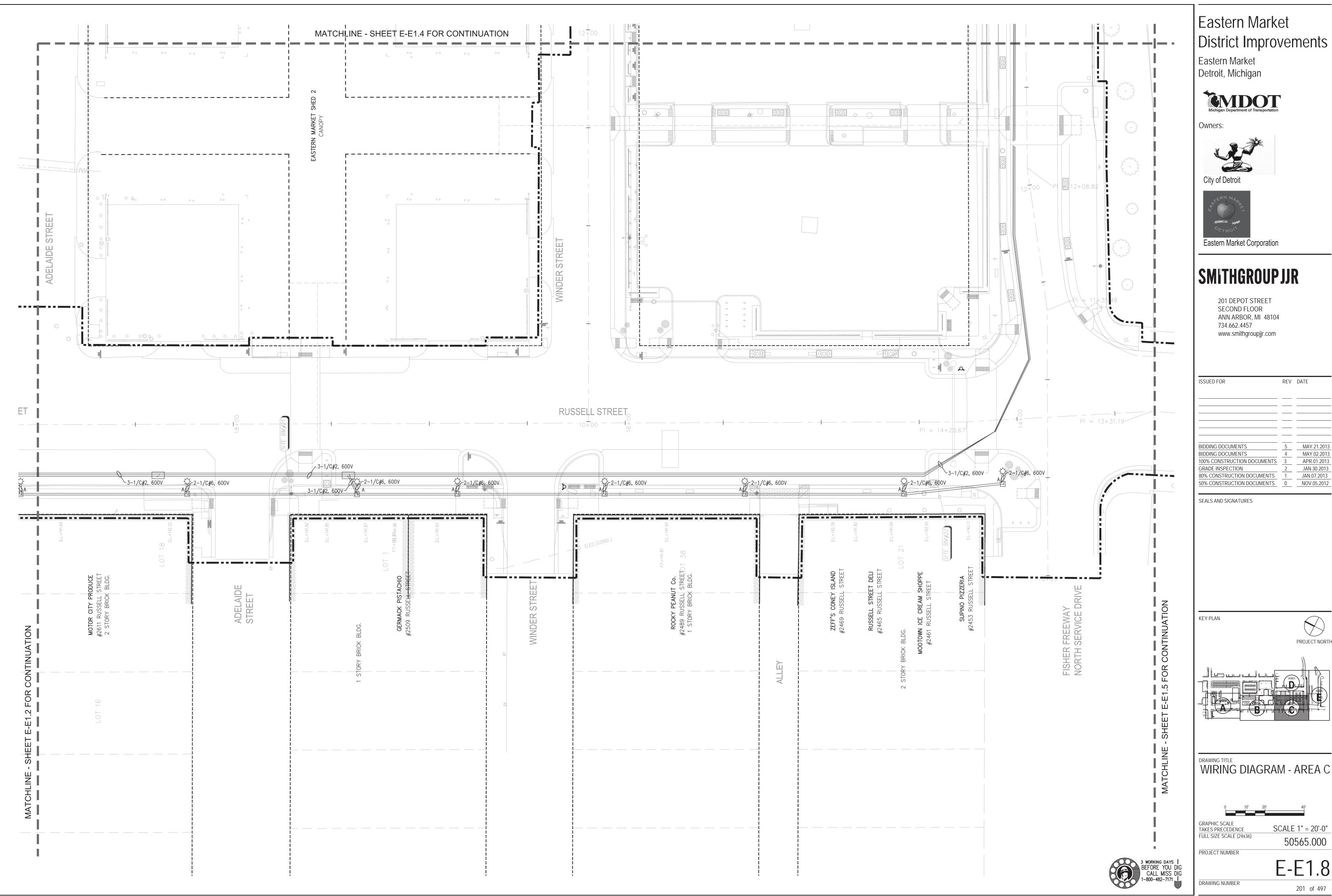
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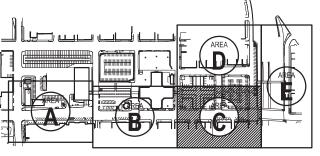
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District Improvements

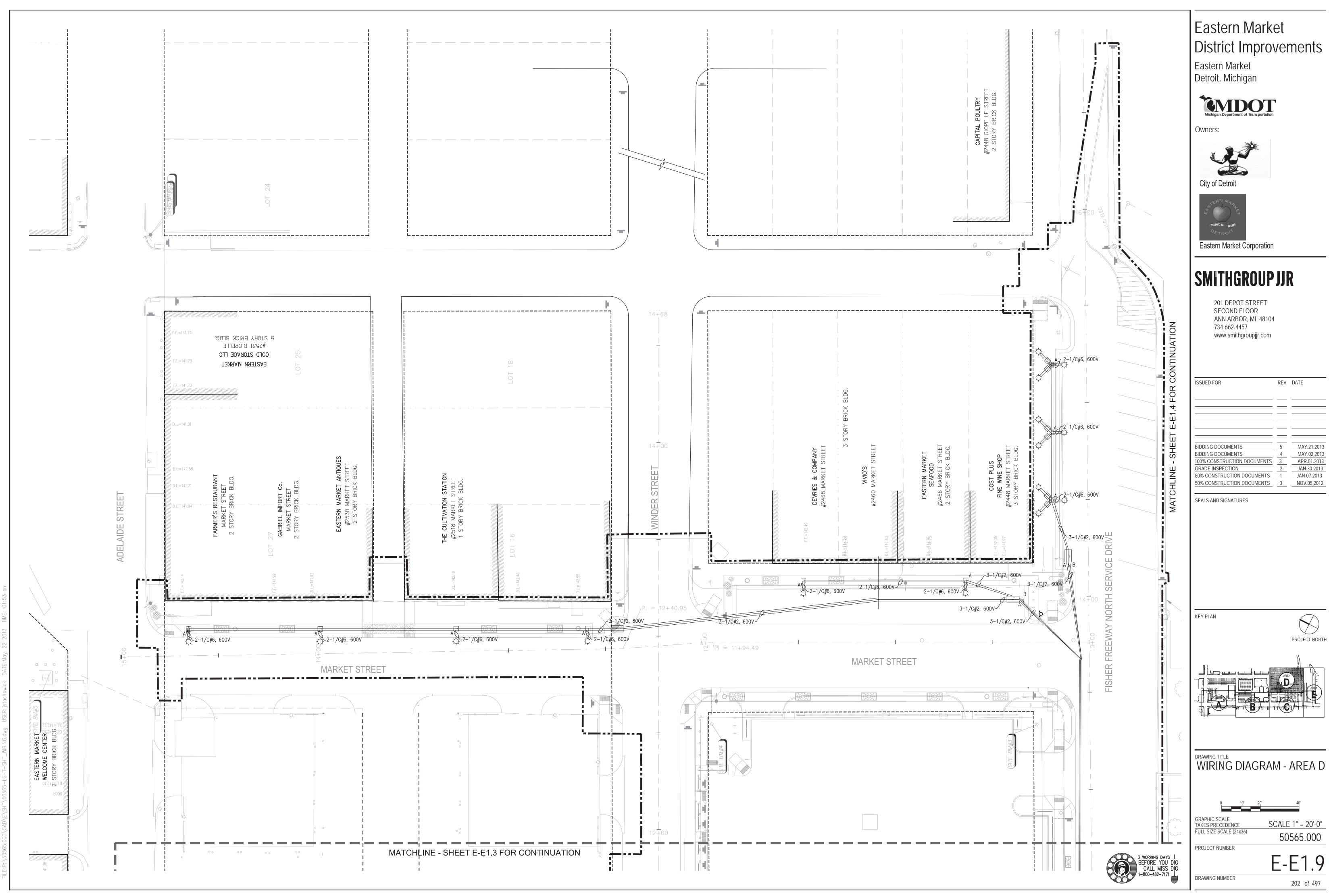
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RADE INSPECTION	2	JAN.30.2013
% CONSTRUCTION DOCUMENTS	1	JAN.07.2013





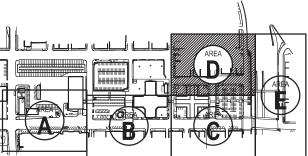
WIRING DIAGRAM - AREA C

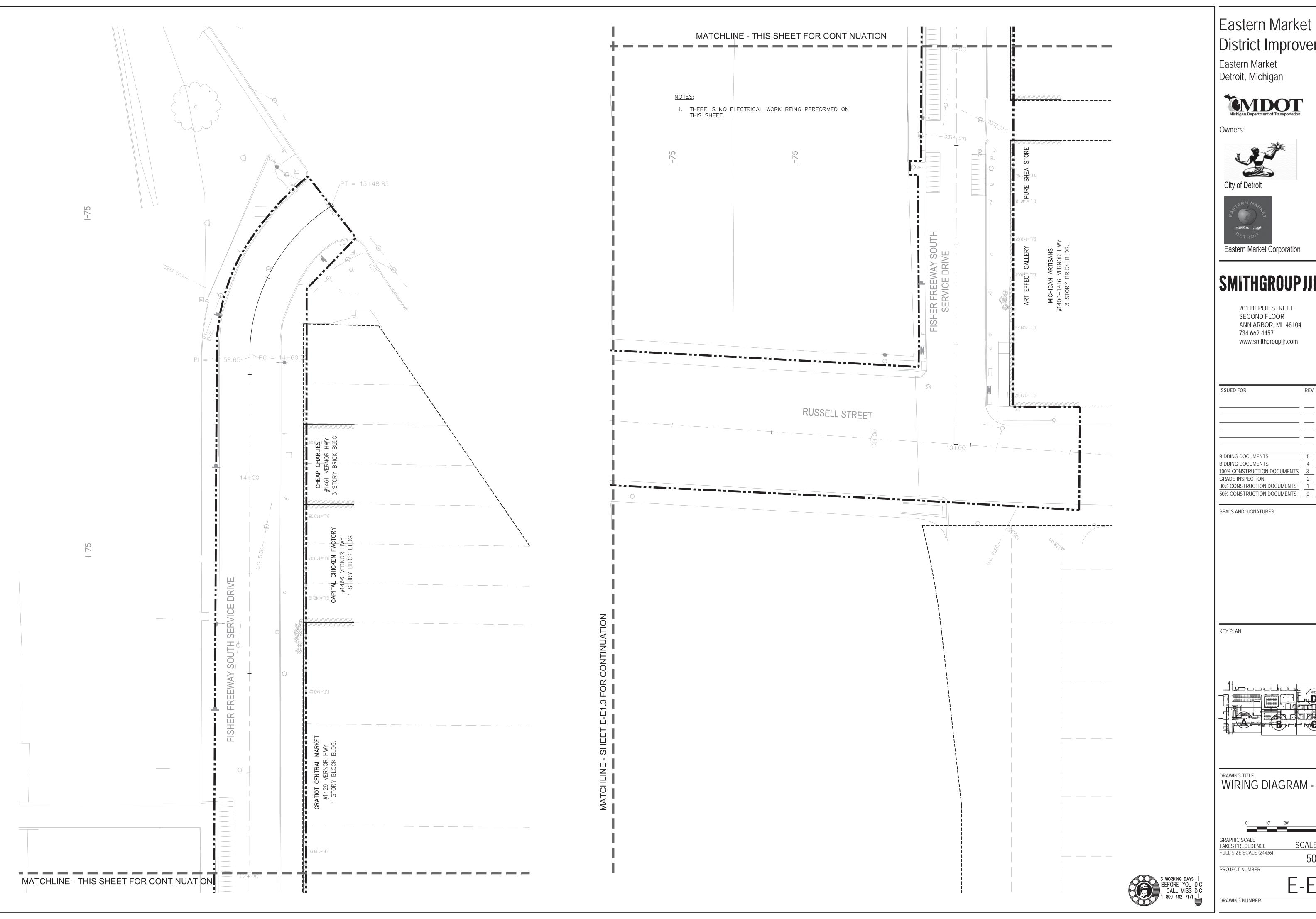
0 10'	20'	40'
GRAPHIC SCALE TAKES PRECEDENCE	S	SCALE 1" = 20'-0"
FULL SIZE SCALE (24x3)	6)	50545 000



BIDDING DOCUMENTS	_5	MAY.21.2013	
BIDDING DOCUMENTS	4	MAY.02.2013	
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013	
GRADE INSPECTION	2	JAN.30.2013	







Eastern Market Detroit, Michigan









Eastern Market Corporation

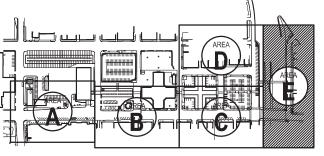
# **SMITHGROUPJJR**

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

BIDDING DOCUMENTS	5	MAY.21.2013
BIDDING DOCUMENTS	4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
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JAN.07.2013



WIRING DIAGRAM - AREA E

GRAPHIC SCALE TAKES PRECEDENCE SCALE 1" = 20'-0"

FULL SIZE SCALE (24x36) 50565.000

## 1. GENERAL NOTES

- 1. FURNISH MATERIALS, EQUIPMENT, LABOR AND SERVICES REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK AS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS INDICATED BY
- 2. PROVIDE INCIDENTAL ITEMS NOT INDICATED ON DRAWINGS, NOR MENTIONED IN THE SPECIFICATIONS THAT CAN LEGITIMATELY AND REASONABLY BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM.
- 3. COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODES, STATE, CITY AND LOCAL ELECTRICAL CODES, WHERE CONFLICTS OCCUR, APPLY THE MORE STRINGENT OF THE CODE ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- 4. COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, CODES OR RULING OF GOVERNMENTAL UNITS HAVING JURISDICTION, AS WELL AS STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION.
- 5. COORDINATE, SCHEDULE AND SEQUENCE ELECTRICAL WORK WITH OTHER TRADES, DOCUMENT SCHEDULE REQUIREMENTS AND COORDINATE EFFORTS.
- 6. SUBMIT SHOP DRAWINGS, CATALOGS, DATA SHEETS OR ANY OTHER DESCRIPTIVE LITERATURE NECESSARY TO CONVEY INFORMATION FOR ENGINEERING REVIEW FOR THE FOLLOWING ITEMS OF ELECTRICAL WORK: WIRING DEVICES, WIRING.

## 2. BASIC ELECTRICAL MATERIAL AND METHODS.

- 1. THE DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF ROUGH-INS. COORDINATE WITH THE RESPECTIVE TRADES BEFORE PROGRESSING WITH ANY WORK. COMPLETE THE INSTALLATION IN A NEAT AND SKILLFUL MANNER.
- 2. DRAWINGS ARE DIAGRAMMATIC AND MANY OFFSETS, BENDS, PULL BOXES, SPECIAL FITTINGS ETC. WHICH ARE REQUIRED ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES IN ORDER TO DETERMINE THE BEST METHODS, EXACT LOCATIONS, BUILDING OBSTRUCTIONS, ETC., TO INSTALL APPARATUS AND EQUIPMENT. INSTALL IN MANNER AND LOCATIONS TO AVOID OBSTRUCTIONS.
- 3. GUARANTEE MATERIAL, EQUIPMENT AND WORKMANSHIP IN WIRING TO BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE

## 3. GROUNDING

- 1. ELECTRICALLY GROUND METALLIC CABINETS, BOXES, AND ENCLOSURES. PROVIDE A GROUNDING TERMINAL IN THE INTERIOR OF CABINETS, BOXES AND ENCLOSURES.
- 2. COMPLY WITH NEC ARTICLE 250 FOR SIZES AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UON. INSTALL SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH CIRCUIT CONDUCTORS.
- 3. BOND CONDUITS, WIREWAY, SURFACE RACEWAYS, BOXES, AND ENCLOSURES TOGETHER. PROVIDE BONDING BUSHINGS AND BONDING JUMPERS TO BOND CONDUITS WHERE THEY ENTER A BOX AND ENCLOSURE.

2-1/C#6, 600V

3-1/C#2, 600V -

2-1/C#8, 600V

─ 3-1/C#2, 600V

1) SAMPLE WIRING DIAGRAM FOR PLD STREET LIGHTING

1. ALTERNATE PHASES BY BLOCK

-MAP 318 3-1/C#2, 600V

## 4. <u>WIRE AND CABLE</u>

- 1. PROVIDE ANNEALED SOFT-DRAWN COPPER, 600 VOLT INSULATED WIRE AND CABLE FOR SECONDARY POWER, UL LISTED FOR THE REQUIRED INSTALLATION.
- 2. PROVIDE TYPE XHHW, 90°C. DRY FOR WIRE,
- 3. PROVIDE STRANDED COPPER WIRE. SIZE PER NEC.

TERMINATIONS OF EACH CONDUCTOR PER THE NEC.

- 4. PROVIDE COMPRESSION SOLDERLESS TYPE CONNECTIONS/LUGS, COPPER.
- 5. INSTALL A SEPARATE NEUTRAL CONDUCTOR WITH EACH CIRCUIT, SIZE NEUTRAL CONDUCTOR THE SAME AS THE CIRCUIT PHASE CONDUCTORS.
- 6. PROVIDE COMMON INSULATED GROUND CABLES FOR MULTIPLE CIRCUITS..
- 7. INSTALL ELECTRICAL CABLES, WIRES, AND CONNECTORS IN COMPLIANCE WITH NEC. COORDINATE CABLE INSTALLATION WITH OTHER WORK.
- 8. IDENTIFY THE CONDUCTORS WITH THE FOLLOWING COLORS: COLOR CODE CONDUCTORS WITH FACTORY APPLIED COLOR OR WITH 1/2" VINYL TAPE AT BOTH

PHASE 240/120 1(A) BLACK 2(B) RED NEUTRAL WHITE GROUND GREEN

- PROVIDE ADHESIVE PLASTIC TYPE MARKERS FOR CABLES NO. 10 AWG AND SMALLER.
- IDENTIFY CONDUCTORS AT THEIR END POINTS WITH WIRE NUMBERS, IF

## MANUFACTURERS:

APPLICABLE.

A-AMERICAN INSULATED WIRECORP

B-ENCORE C-SOUTHWIRE

## 5. CONDUIT

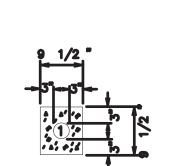
- 1. PROVIDE THE FOLLOWING TYPES OF CONDUIT AND RACEWAY IN THE RESPECTIVE LOCATIONS:
- 2. PVC SCHEDULE 40, UNLESS OTHERWISE NOTED
- 3. BURY CONDUIT MINIMUM 36 INCHES BELOW GRADE.
- 4. MANUFACTURERS:
- A- ALLIED TUBE AND CONDUIT CORP
- B- AFC CABLE SYSTEMS, INC
- C- MIDWEST ELECTRIC PRODUCTS CO. D- WHEATLAND TUBE CO.

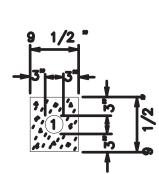
6. CABINETS, BOXES AND FITTING

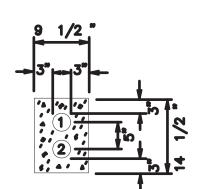
- 1. PROVIDE ELECTRICAL CABINETS, BORES, AND FITTINGS AS INDICATED BY TYPE, SIZE, AND NEMA ENCLOSURE CLASS. WHERE NOT INDICATED, PROVIDE UNITS OF TYPE, SIZES, AND CLASSES APPROPRIATE FOR THE USE AND LOCATION. PROVIDE ITEMS COMPLETE WITH COVERS AND ACCESSORIES REQUIRED FOR THE INTENDED USE.
- 7. WIRING DEVICES
- 1. PROVIDE 20A., 125VAC NEMA TYPE 5-20R DUPLEX RECEPTACLES WITH ONE-PIECE BRASS MOUNTING STRAP, INTEGRAL GROUNDING CONTACTS, IMPACT RESISTANT NYLON FACE
- 2. INSTALL WIRING DEVICES AND ACCESSORIES AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO FULFILL PROJECT REQUIREMENTS.
- 3. INSTALL DEVICES AND COVER PLATES PLUMB AND PARALLEL TO ADJACENT SURFACES OR TRIM. INSTALL DEVICES FLUSH WITH THE FINISHED TRIM OVER PLATES AND THE PLATES TIGHT TO THE SURFACES WHICH THEY ARE INSTALLED.
- 4. LABEL BACK OF WIRING DEVICE WALL PLATES WITH PERMANENT MARKER PEN INDICATING THE CIRCUIT NUMBER AND PANELBOARD IDENTIFICATION.
- MANUFACTURERS:
- A- HUBBELL B- LEVITON
- C- ARROW HART

			400 MOD	N	FLITTO AL DUO.	4000/	
		IVIAIIN.	100 MCB		EUTRAL BUS:		
				IVS	S EQUIPPED:		
Circ		aker					ed Watts
No	Pole		Load Description	Load Location	Notes	Phase A	Phase B
1	1	20	SPARE				
3	1	20	RECEPTACLES				1,200
5	1	20	RECEPTACLES			800	
7	1	20	RECEPTACLES				1,200
9	1	20	CABINET RECPTACLE			180	
11			SPACE				
13	2	20	LED LIGHTING			368	
15							368
17	1	20	SPARE				
19	2	20	LED LIGHTING				732
21						732	
23	1	20	SPARE				
2	1	20	SPARE				
4	1	20	SPARE				
6	1	20	SPARE				
8			SPACE				
10	1	20	CONTROL				
12			SPACE				
14	2	20	LED LIGHTING			610	
16							610
18	1	20	SPARE				
20			SPACE				
22			SPACE				
24	1	20	SPARE				
1	CONN	ECTE	D KW: 7 DEMAND KV	V: 7	Phase Watts:	2,690	4,110
_				_			r .

DEMAND AMPS:





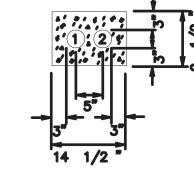


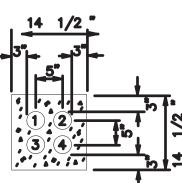
2-3" CONDUITS

CONNECTED AMPS:

PANELBOARD: LP-2 (SPLIT BUS)

VOLTAGE: 240/120V, 1 PHASE, 3 WIRE + G





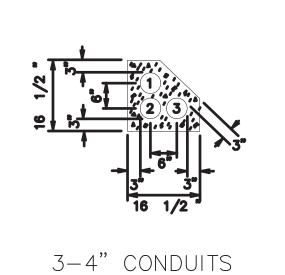
AIC: 10,000

IG BUS: NO

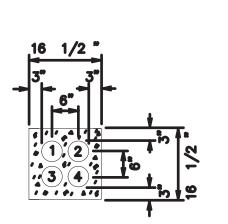
4-3" CONDUITS

ALTERNATE ARRANGEMENT

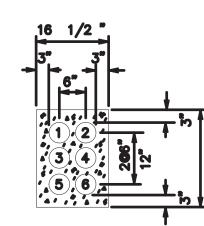
2-3" CONDUITS

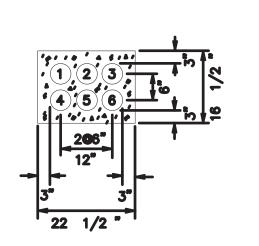


1-2" CONDUIT 1-3" CONDUIT

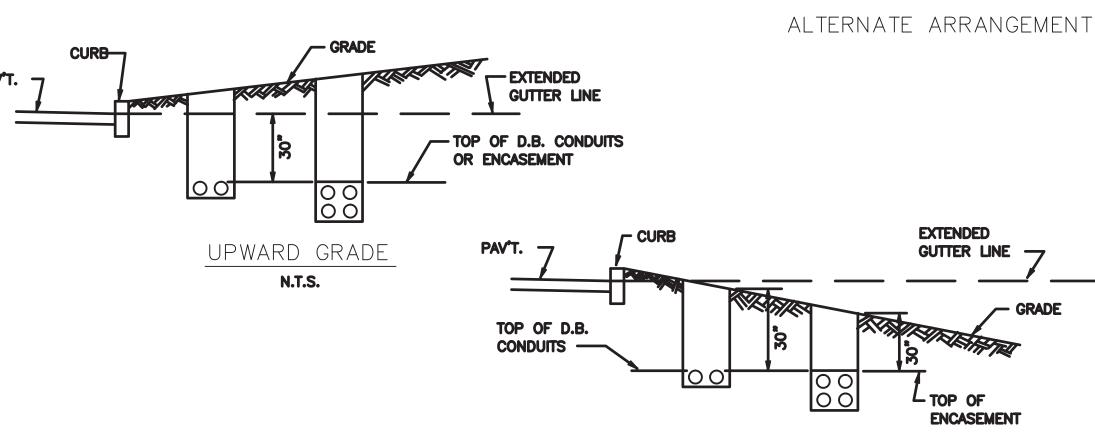


4-4" CONDUITS





6-4" CONDUITS 6-4" CONDUITS



DOWNWARD GRADE

# Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:





Eastern Market Corporation

## **SMITHGROUP JJR**

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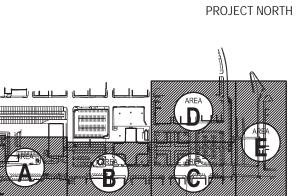
ISSUED FOR	REV	DATE
BIDDING DOCUMENTS	_5	MAY.21.2013
BIDDING DOCUMENTS	_4	MAY.02.2013
100% CONSTRUCTION DOCUMENTS	3	APR.01.2013
GRADE INSPECTION	2	JAN.30.2013

NOV.05.2012

SEALS AND SIGNATURES

80% CONSTRUCTION DOCUMENTS 50% CONSTRUCTION DOCUMENTS

**KEY PLAN** 

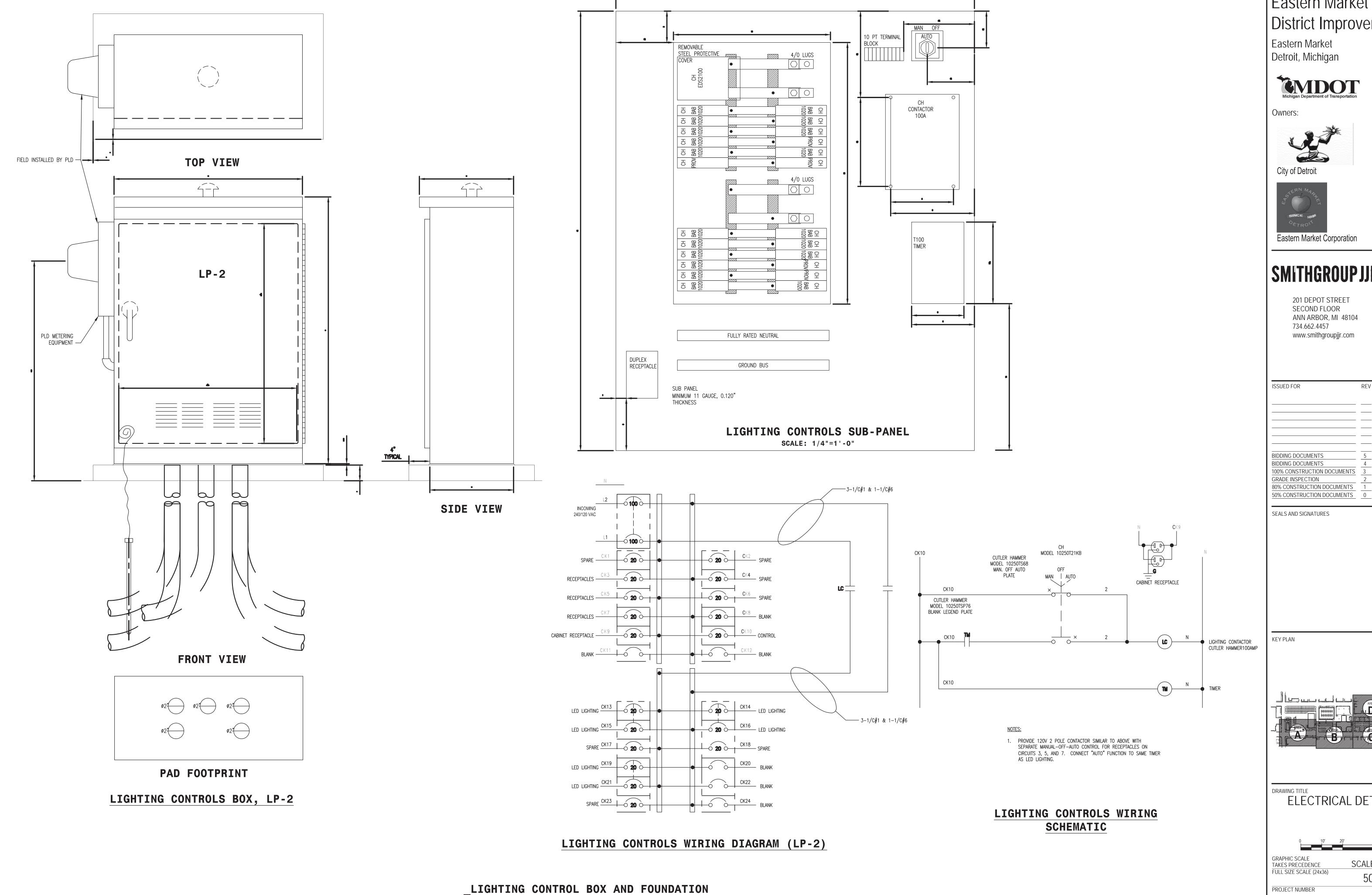


DRAWING TITLE SPECIFICATIONS AND PANEL SCHEDULES

**GRAPHIC SCALE** SCALE 1" = 20'-0" TAKES PRECEDENCE FULL SIZE SCALE (24x36)

50565.000 PROJECT NUMBER

DRAWING NUMBER



Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

## **SMITHGROUPJJR**

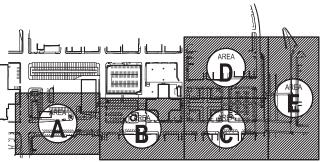
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ISSUE	D FOR	REV	DATE
BIDDIN	NG DOCUMENTS	5	MAY.21.2013
BIDDIN	NG DOCUMENTS	4	MAY.02.2013

SEALS AND SIGNATURES



JAN.07.2013



DRAWING TITLE
ELECTRICAL DETAILS

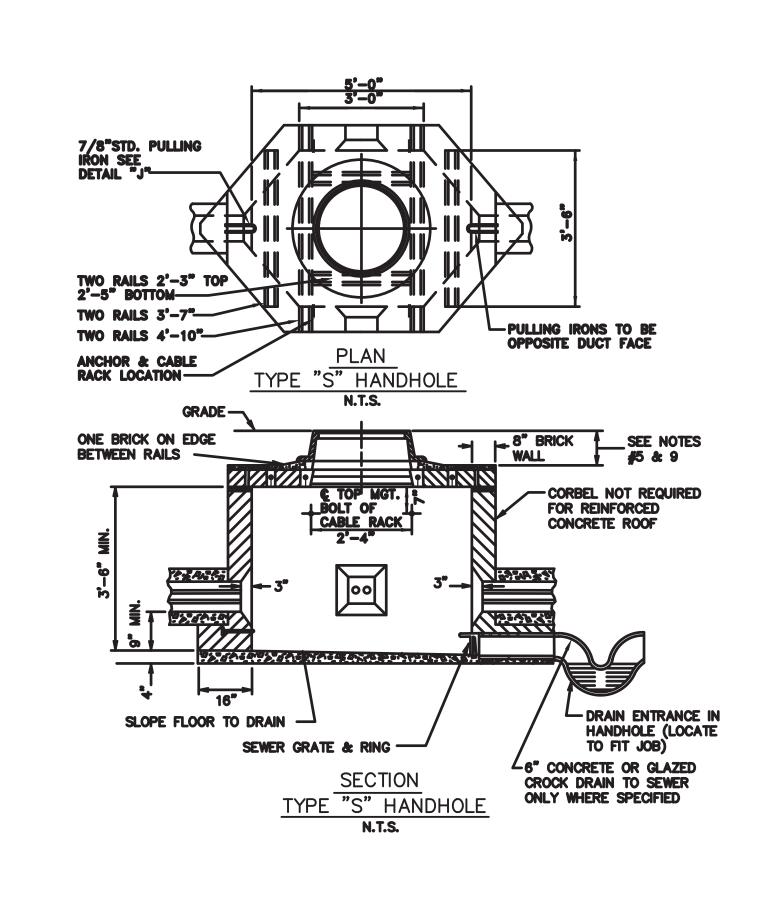
GRAPHIC SCALE
TAKES PRECEDENCE
FULL SIZE SCALE (24x36) SCALE 1" = 20'-0"

50565.000 PROJECT NUMBER

DRAWING NUMBER

205 of 497

3 WORKING DAYS | BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 |



SECTION "D-D"

STREET TYPE COVER

TO BE USED IN STREETS & DRIVES

USE COMMON CONCRETE BRICKS WITH FROGS OR CORES. SIZE: 2-1/4" TO 2-1/2" x 3-3/4" x 8" COMPRESSION STRENGTH: 3000 p.s.1. /3500 p.s.1. AVE. OF FIVE CONFORMING TO A.S.T.M. C-32 OR C-35 BRICK WITH LIME AS A MAJOR CONSTITUENT IS NOT ALLOWED.

## HANDHOLES:

I. IN PAVEMENT, PROVIDE AT LEAST 3' BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROPOSED FUTURE GRADE, INSTALL BRICK RING OR GROUT (AS REQUIRED) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT. 2. WHERE HANDHOLES ARE LOCATED BACK OF CURBS.

ROOF MUST BE BUILT 18' BELOW CURB GRADE TO

PROVIDE FOR FUTURE WIDENING.

CONCRETE BLOCKS ARE NOT ACCEPTABLE.

## MANHOLES:

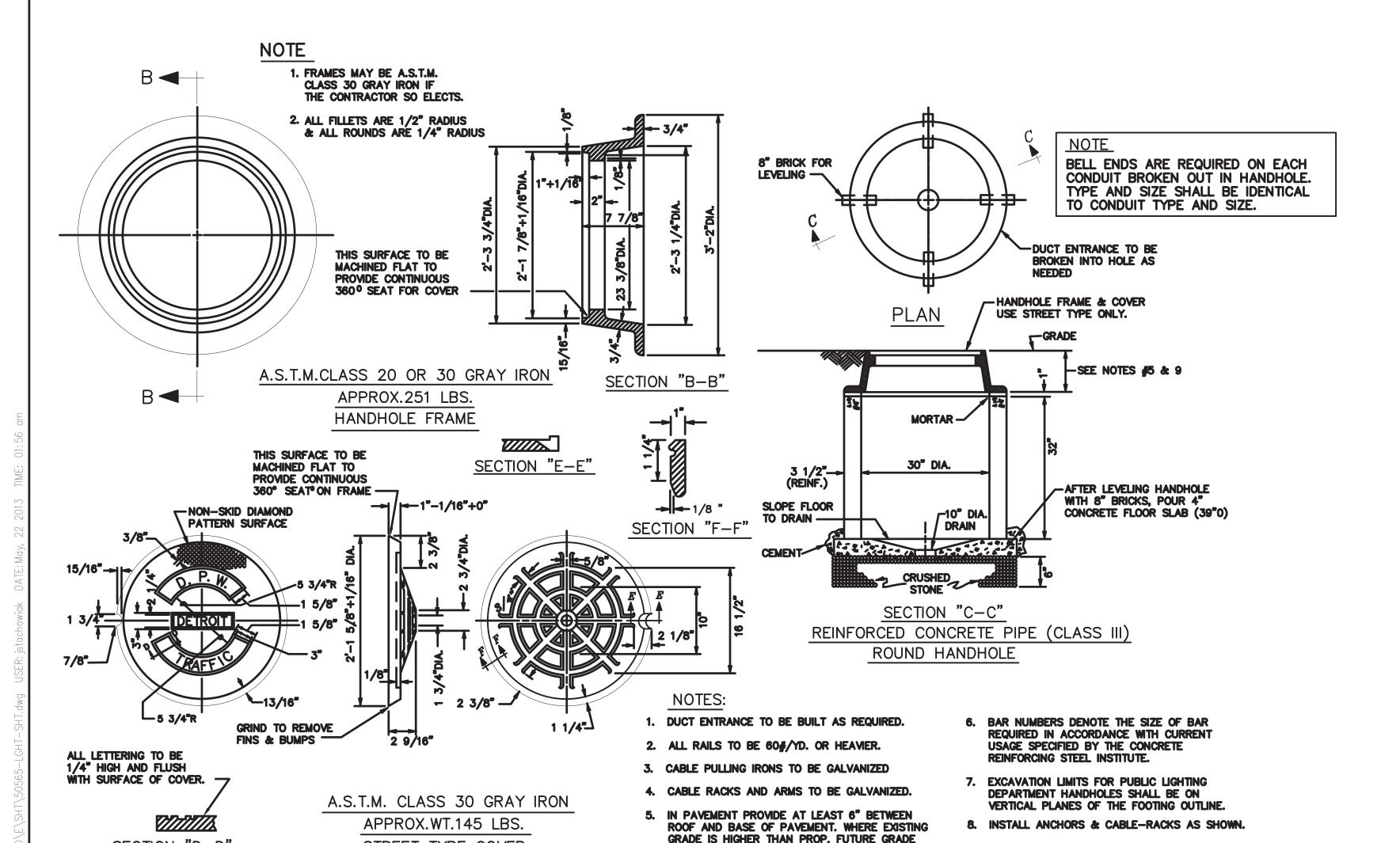
- I. WHERE MANHOLES ARE LOCATED BACK OF CURBS. TOP OF M.H. ROOF MUST BE BUILT 26" BELOW CURB GRADE.
- 2. IN EXISTING PAVEMENT, PROVIDE AT LEAST 8" BETWEEN TOP OF MANHOLE ROOF AND BASE OF PAVEMENT.
- 3/8" MORTAR JOINTS FULL MORTAR BED NOT TO SCALE TOP SURFACE MUST BE CLEAN, FIRM & STRUCTURALLY 1/2" PLASTER COAT OF MORTAR ON INTERIOR AND EXTERIOR OF CHIMNEY
  - · EQUIPMENT NOT PERMITTED TO OPERATE OVER STRUCTURE PRIOR TO 24 HR. AFTER COMPLETION OF WORK.
  - O REMOVE CONSTRUCTION DEBRIS FROM STRUCTURE.

MANHOLE / HANDHOLE CHIMNEY CONSTRUCTION

9. WHERE HANDHOLES ARE LOCATED BACK OF CURBS

ROOF MUST BE BUILT 18" BELOW CURB GRADE,

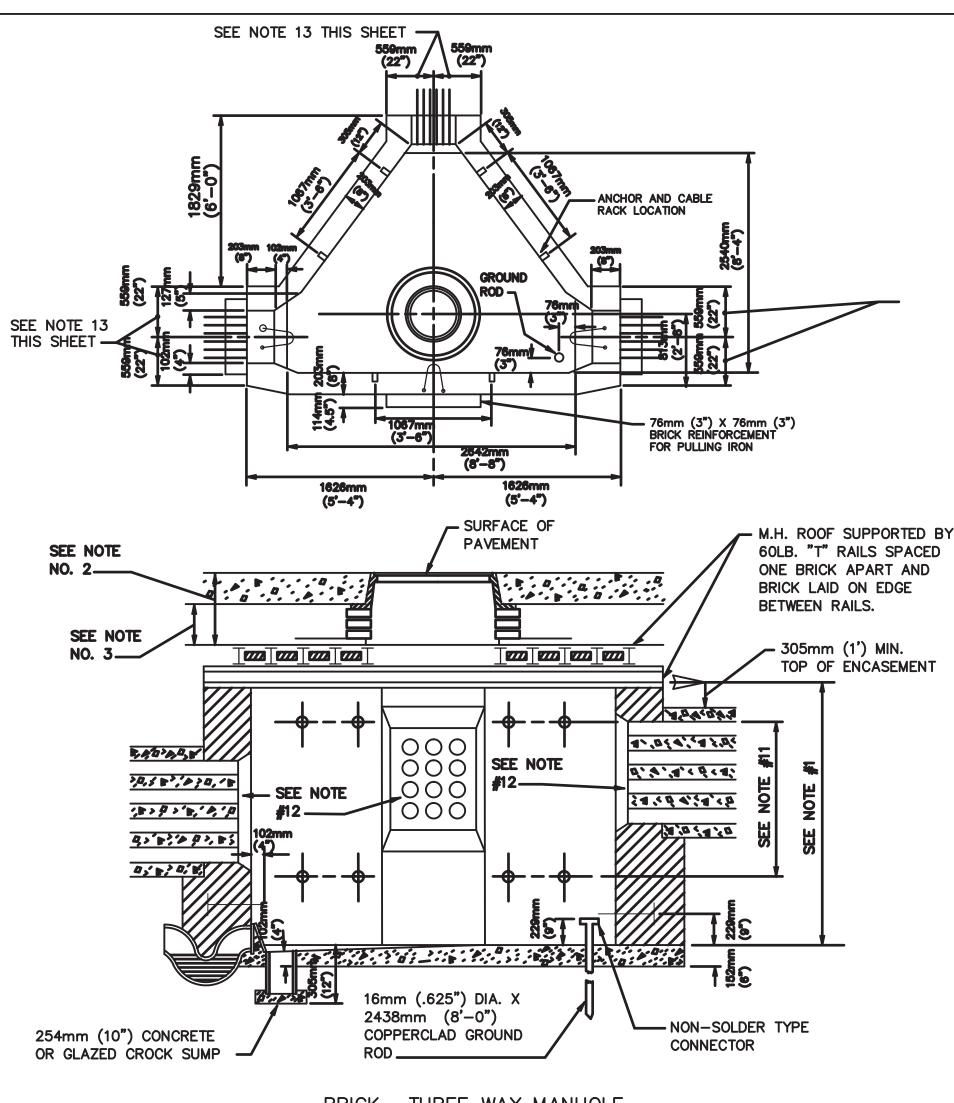
TO PROVIDE FOR FUTURE WIDENING.

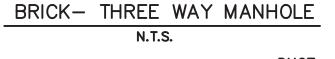


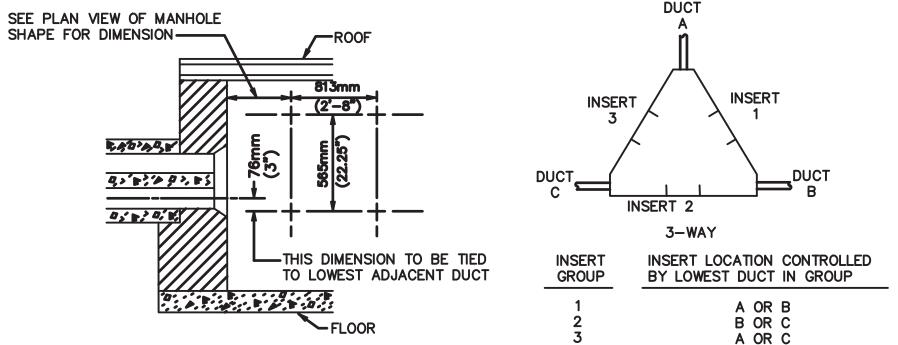
INSTALL BRICK RING OR GROUT (AS REQ'D.)

ADJUSTMENT.

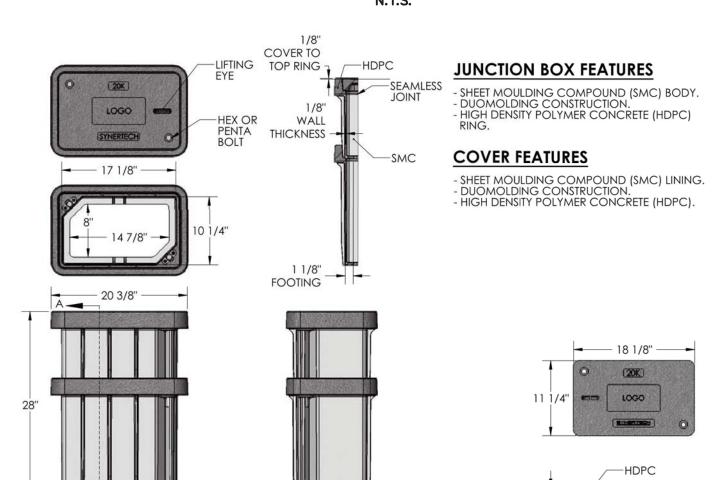
UNDER FRAME TO ALLOW FOR FUTURE FRAME







## TYPICAL DIMENSIONS FOR RACK MOUNTING INSERTS



**11 1/2"** 

17 1/4"

JUNCTION BOX 11 X 18 X 30

\_Hh, POLYMER; \_Hh, POLYMER, PLD



**COVER 11 X 18** 

## Eastern Market District Improvements

Eastern Market Detroit, Michigan



Owners:







Eastern Market Corporation

## **SMITHGROUP JJR**

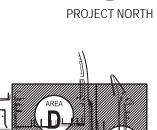
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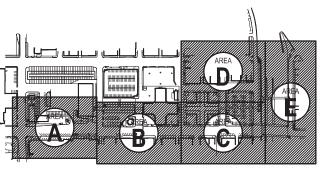
50% CONSTRUCTION DOCUMENTS 0

SEALS AND SIGNATURES

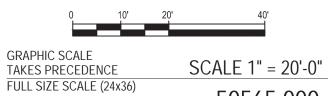
KEY PLAN



NOV.05.2012



DRAWING TITLE ELECTRICAL DETAILS



FULL SIZE SCALE (24x36) 50565.000 PROJECT NUMBER

DRAWING NUMBER