

**REQUEST FOR QUALIFICATIONS
PROFESSIONAL ENGINEERING SERVICES
CITY OF MT. PLEASANT ENGINEERING DEPARTMENT**

The City of Mt. Pleasant is seeking qualifications from engineering firms capable of managing an MDOT-let street construction project.

Interested Professional Engineering Consultants are requested to submit statements of experience and qualifications to the City of Mt. Pleasant in regard to providing professional consulting services in construction management, inspection, and construction staking for the Michigan Street Reconstruction project. The project is scheduled to begin mid-June and end mid to late August. The Engineer's estimate for the project is \$720,000. A preliminary plan set is attached.

Services to be provided by the successful, professional engineering consultant may include project management, construction engineering, on-site inspection and surveying, project closeout, and materials testing.

All Michigan Department of Transportation standards and procedures will need to be followed throughout the management of this project.

Firms will be ranked on experience, standard billing rates, and qualifications; including but not limited to: MDOT-funded street reconstruction projects, key personnel qualifications, overall project coordination ability, availability, and ability to meet federal and state requirements.

IMPORTANT INFORMATION regarding questions about this RFQ!

Any questions relative to the scope of services must be submitted by e-mail to engineering@mt-pleasant.org. Questions must be received by January 17, 2012. Answers will be posted as questions are received.

Please visit <http://www.mt-pleasant.org> to receive up-to-date information regarding this RFQ including answers to all questions submitted. It is the responsibility of the bidders to check the website for new questions and answers prior to submitting bids. The names of vendors submitting questions will not be disclosed. Personal visits and phone calls will not be allowed.

As stated below, proposals will be due by 1:30 p.m., on January 18, 2012. It is the intent of the City to interview the highest-scored firm by January 20, 2012, and develop a contract with that firm deemed most qualified by January 26, 2012, to be approved by the City Commission on February 13, 2012. These dates are not final and may change depending on the best interests of the City of Mt. Pleasant.

SUBMITTAL INSTRUCTIONS

Qualifications Based Selection – The City of Mt. Pleasant staff will review all Qualification Packages submitted for this project. To be considered as a qualified respondent, five copies of the Qualification Package must be submitted in a sealed envelope and clearly marked **RFQ: PROFESSIONAL ENGINEERING SERVICES** and received by the City of Mt. Pleasant at the City Clerk's Office address listed below by 1:30 p.m., January 18, 2012. Qualification Packages must be mailed or delivered to the following address:

City Clerk's Office
320 West Broadway Street
Mt. Pleasant, MI 48858-2447
(989) 779-5361

Any packages received after this date and time will be deemed unresponsive. The City reserves the right to accept or reject any and all proposals, to re-solicit proposals, to waive any irregularities, to negotiate pricing and to select the proposal deemed to be in the best interests of the City. Issuance of this RFQ does not obligate the City to award a contract nor is the City liable for any costs incurred by the proponent in the preparation and submittal of the proposal. All proposals must include the following information in the order stated below:

1. **Corporate Profile:** Describe on one page the background of your company and why it is qualified to provide the requested services for the City of Mt. Pleasant.
2. **Understanding of the Project:** Describe in two pages or less your understanding of the project including a brief overview of your plan on accomplishing the services being requested by the City of Mt. Pleasant.
3. **Project Team:** Describe the qualifications of the key person(s) who will be responsible for providing the requested services. Resumes for key person(s) are required. (Limit resumes to two pages for each key person listed.) Standard billing rates and an estimate of time required shall be included.
4. **Experience:** Provide evidence of similar past experience that demonstrates your ability to successfully provide the services being requested in this RFQ. Include names and contact information from past projects for reference purposes.

FEE NEGOTIATIONS

At the time of awarding the contract to the successful firm, the City of Mt. Pleasant will negotiate a not-to-exceed fee for required services. If the City of Mt. Pleasant and the successful firm cannot agree on a firm cost, the City will solicit a fee from the next highest-scored firm. The City requests to be billed on a monthly basis for any services provided.

INSURANCE REQUIREMENTS

The engineering firm shall not begin any work under any contract until it has obtained the required insurance, and the City of Mt. Pleasant has approved such insurance. The successful firm shall not allow any subconsultant to commence work on its contract until all similar insurance required of the consultant has been so obtained and approved. Insurance requirements include:

- Workers Compensation Insurance including Employers Liability Coverage in accordance with all applicable statutes of the State of Michigan.
- Commercial General Liability Insurance on an “occurrence basis” with limits of liability not less than \$3,000,000 per occurrence and or aggregate combined single limit, personal injury, bodily injury and property damage.
- Professional Liability Insurance for the life of the contract with limits of liability not less than \$5,000,000 per occurrence and/or aggregate combined single limits, and errors and omissions.

CONTROL SECTION STUL 37073 JOB NO. 114397 A SH. NO. 1

EXISTING BY: _____ DATE: _____
 PROPOSED BY: _____ DATE: _____
 LAST CORRECTION BY: _____ DATE: _____

CITY OF MT. PLEASANT - DIVISION OF PUBLIC WORKS

IN COOPERATION WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION

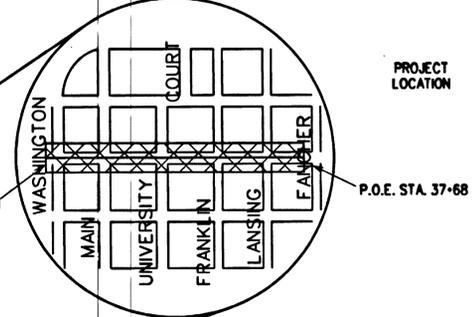
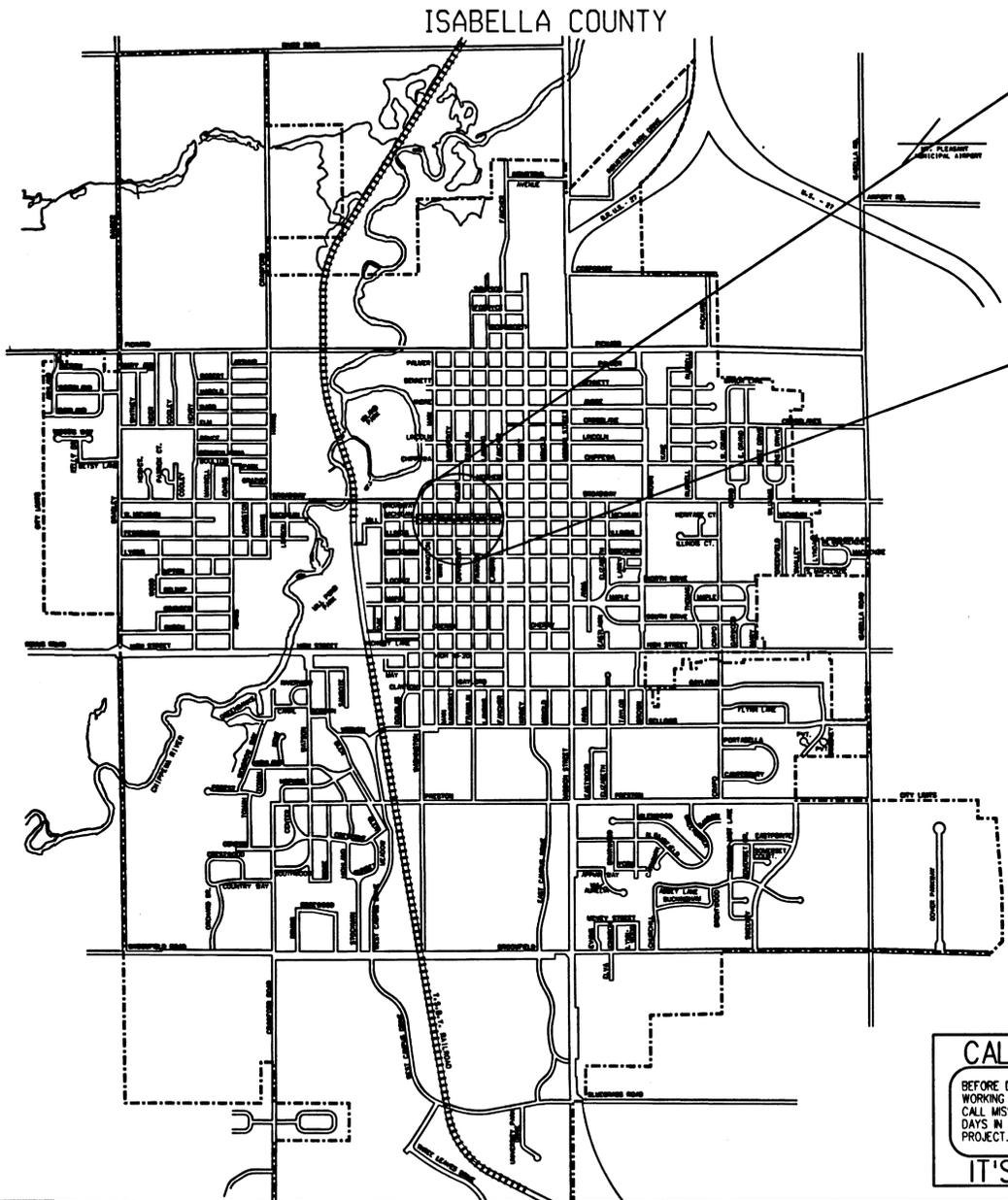
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS, 2004 AASHTO, A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND 2005 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ROAD PLANS SHEET NUMBERS

TITLE	1
TYPICAL CROSS SECTIONS	2-3
STREETSCAPE DETAIL SHEET	4
NOTE SHEET	5
REMOVAL SHEET	6
PLAN & PROFILE	7-9
STREETSCAPE SHEET	10
INTERSECTION DETAIL SHEET	11-13
DETOUR SHEET	14
PAVEMENT MARKING	15

PLANS OF PROPOSED MICHIGAN STREET RECONSTRUCTION FROM WASHINGTON STREET TO FANCHER STREET
 CONTROL SECTION - STUL 37073
 JOB NUMBER - 114397 A
 FEDERAL ITEM NO. -
 FEDERAL PROJECT NO.

	2012	2032
A.D.T.	2250	2700
COMM. %	5.0%	5.0%
POSTED SPEED	25 mph	25 mph
DESIGN SPEED	30 mph	30 mph



CONTRACT FOR 0.29 MILE OF HMA AND CURB AND GUTTER REMOVAL AND CONSTRUCTION OF CONCRETE CURB AND GUTTER, PARKING, SIDEWALK, STORM SEWER AND HMA PAVING.

APPROVALS

RECOMMENDED FOR APPROVAL: Ray Ecker 43192 12-21-11
DESIGN ENGINEER REGISTRATION DATE

RECOMMENDED FOR APPROVAL: Paul A. Fosse 12-21-11
PROJECT MANAGER DATE

**CITY OF MT. PLEASANT
DIVISION OF PUBLIC WORKS**
 ROGER ROUSSE - DIRECTOR

CITY COMMISSION

BRUCE KILMER
MAYOR

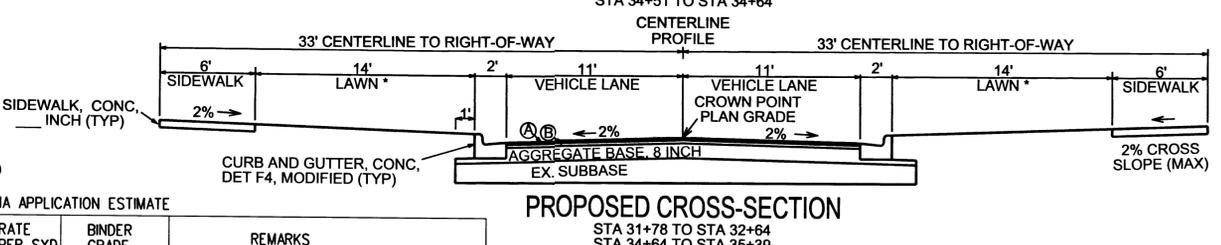
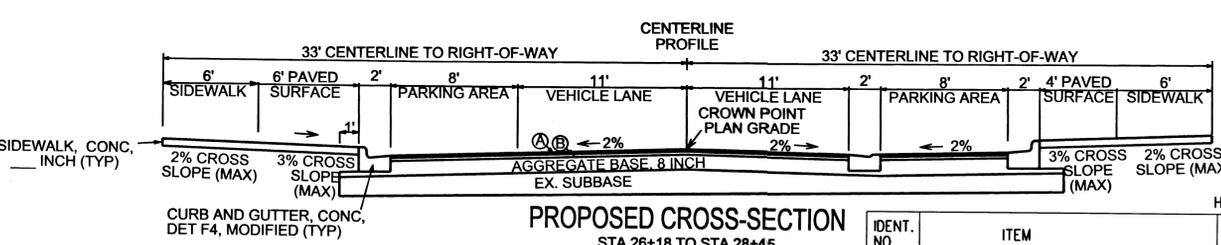
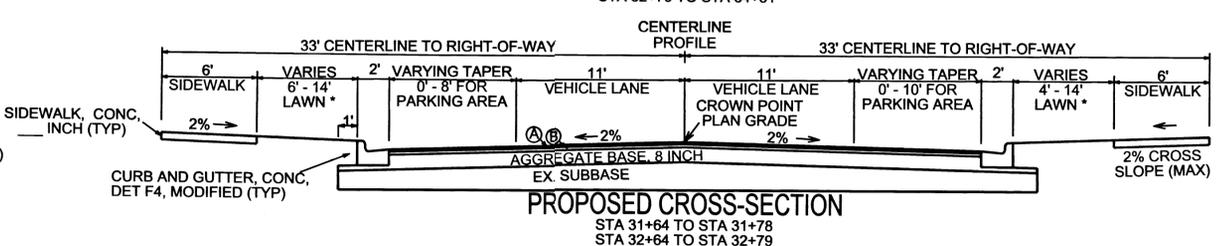
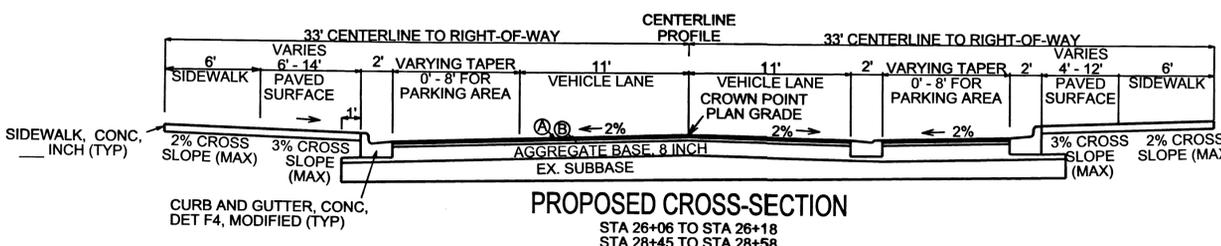
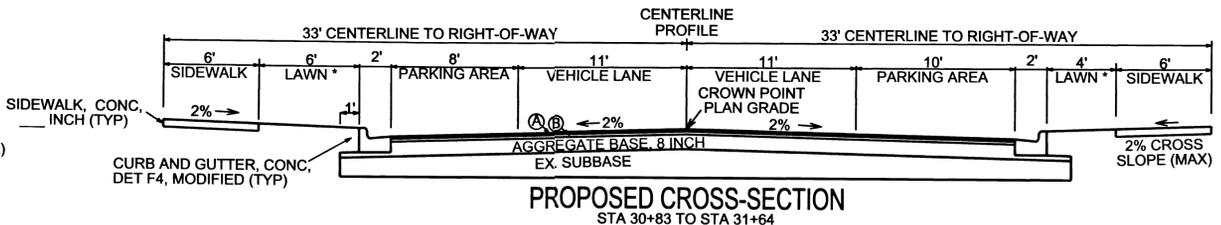
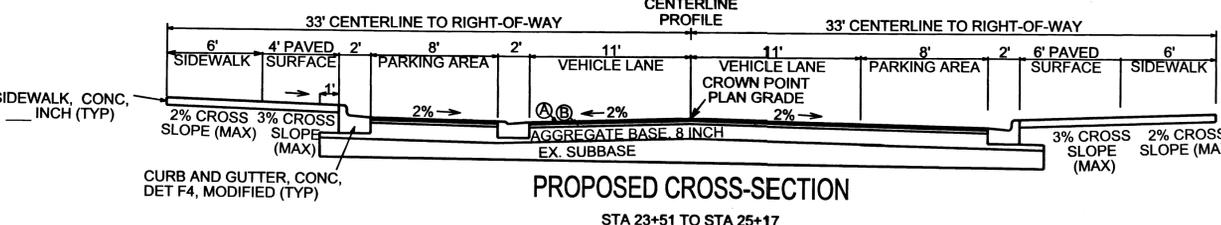
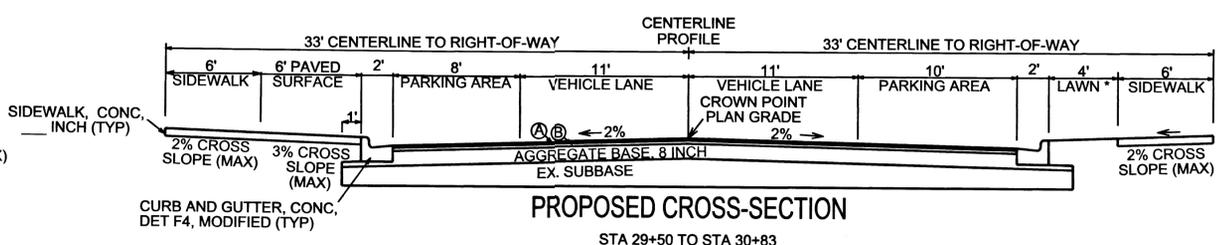
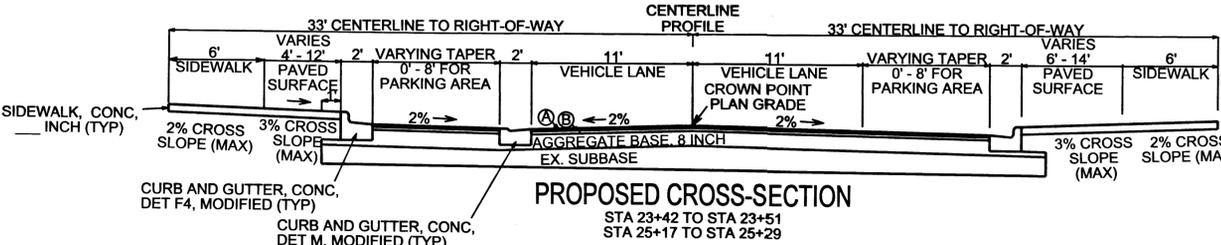
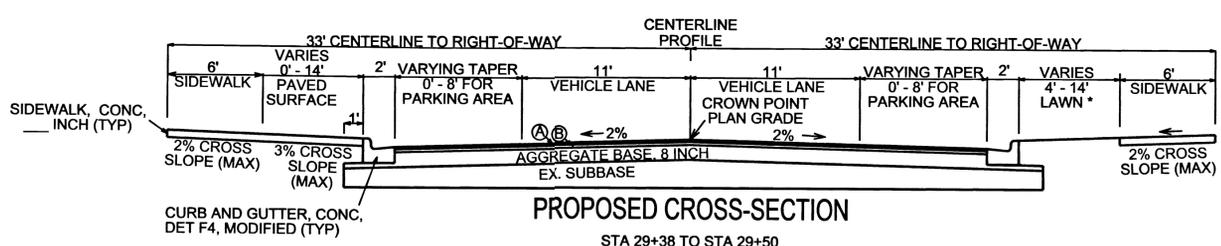
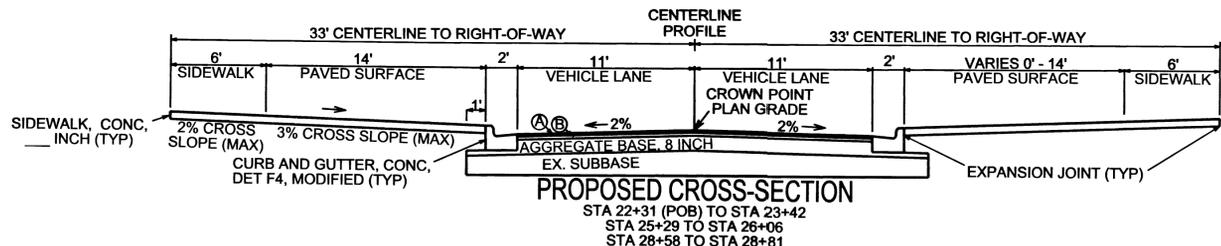
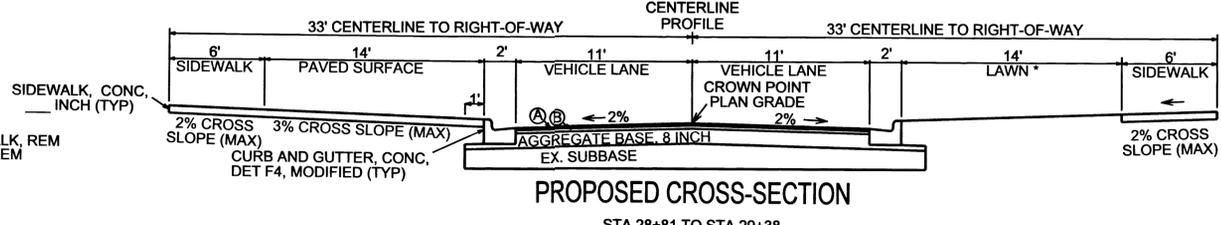
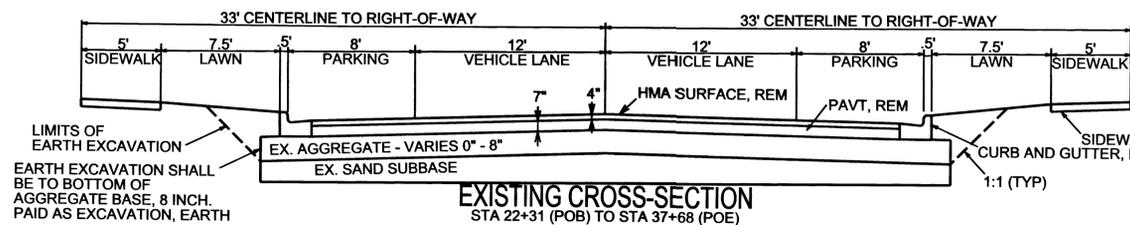
KATHLEEN LING VICE MAYOR **JON JOSLIN** COMMISSIONER
NANCY ENGLISH COMMISSIONER **ERIK ROBINETTE** COMMISSIONER
JIM HOLTON COMMISSIONER **SHARON TILMANN** COMMISSIONER



CALL MISS DIG
 BEFORE DIGGING UNDERGROUND OR WORKING NEAR OVERHEAD WIRES, CALL MISS DIG AT LEAST 3 BUSINESS DAYS IN ADVANCE OF STARTING YOUR PROJECT. (800) 482-7171
IT'S THE LAW

CONTROL SECTION	JOB NUMBER	FEDERAL NUMBERS	SHEET NO.
STUL 37073	114397 A	???????	1

CONTROL SECTION STUL 37073 JOB NUMBER 114397 A



HMA APPLICATION ESTIMATE

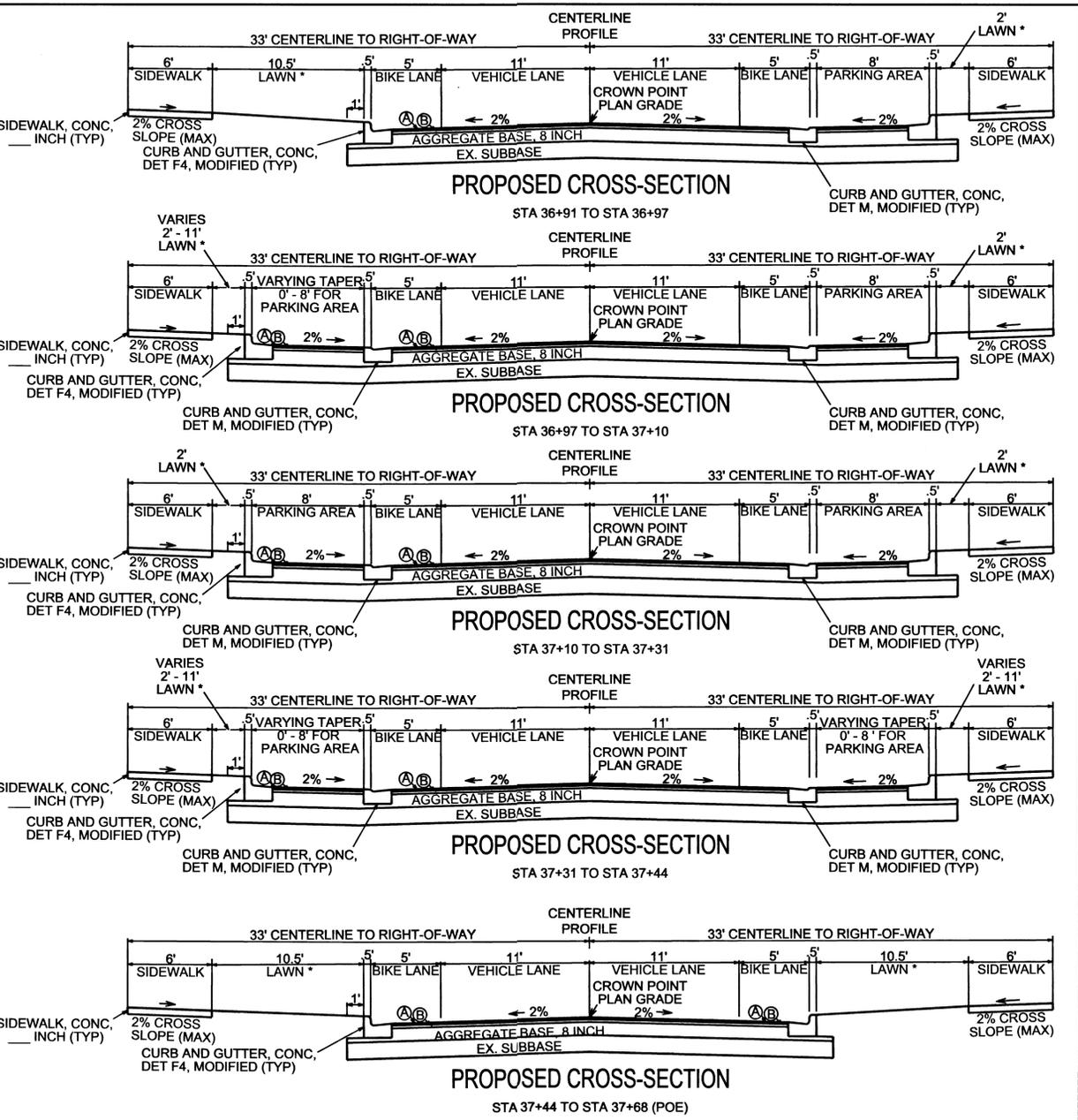
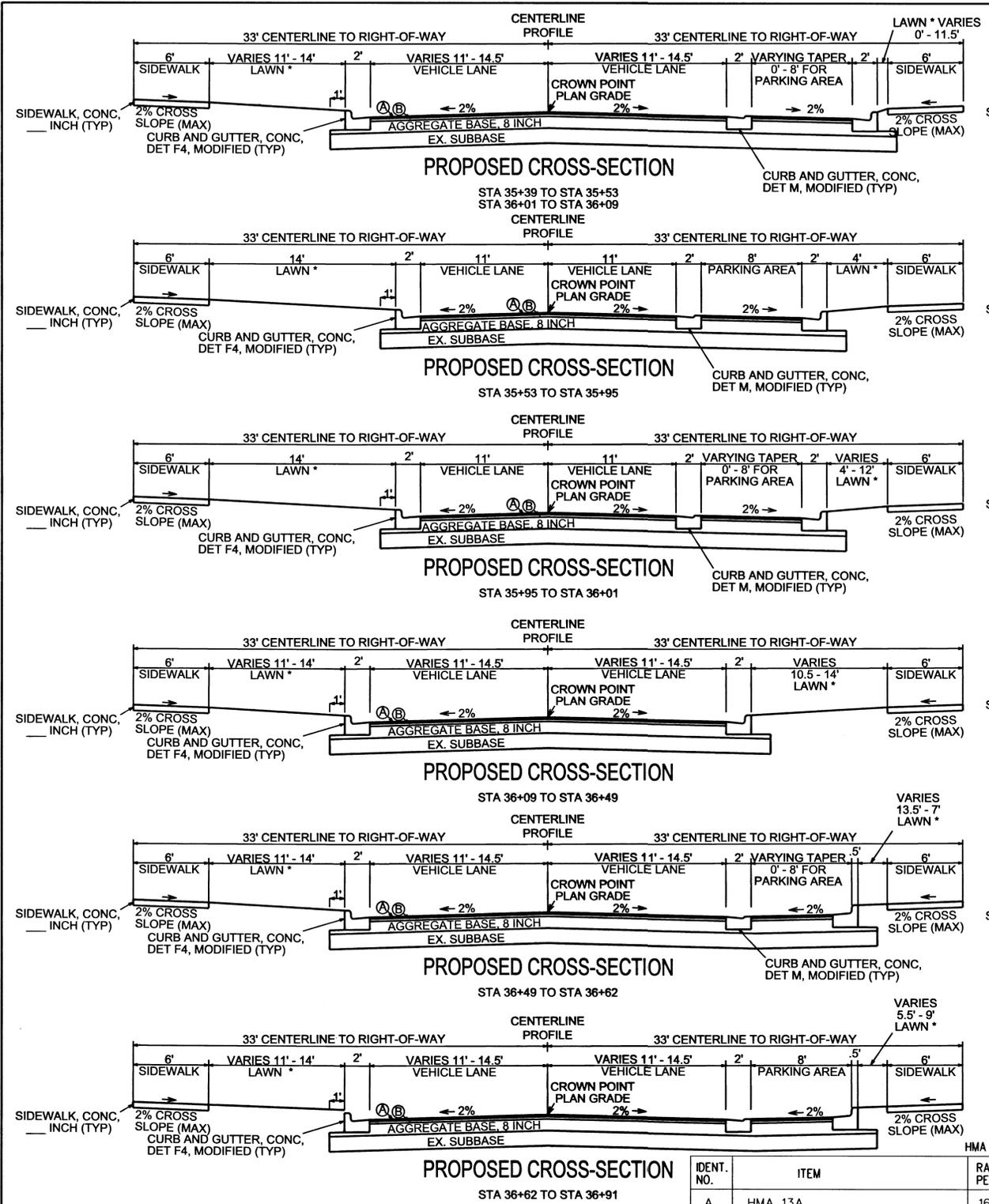
IDENT. NO.	ITEM	RATE PER SYD	BINDER GRADE	REMARKS
A	HMA, 13A	165 lb	PG 58-28	TOP COURSE AGG. WEARING INDEX = 260 MINIMUM
B	HMA, 13A	220 lb	PG 58-28	LEVELING COURSE
C	HMA APPROACH	220 lb	PG 58-28	HMA Mixture 13A, DRIVEWAYS
D	HMA APPROACH	385 lb	PG 58-28	HMA Mixture 13A, CROSS STREETS
	* HMA BOND COAT	0.05-0.15 GALLON		

LAWN * - INDICATES TOPSOIL, SEED, AND MULCH
- PAID AS RESTORATION, MODIFIED

FINAL R.D.W.	REVISION	
NO.		
DATE		
AUTH		

2012 MICHIGAN STREET RECONSTRUCTION	DESIGN UNIT	N/A
	JOB NO.	114397 A
	CONT. SEC.	STUL_37073
	DATE	OCT 20, 2011
	CHECKED BY:	
	WORKED ON BY:	
	DATE:	

SHEET NO.	R.O.W	CONST.
		2



HMA APPLICATION ESTIMATE

IDENT. NO.	ITEM	RATE PER SYD	BINDER GRADE	REMARKS
A	HMA, 13A	165 lb	PG 58-28	TOP COURSE AGG. WEARING INDEX = 260 MINIMUM
B	HMA, 13A	220 lb	PG 58-28	LEVELING COURSE
C	HMA APPROACH	220 lb	PG 58-28	HMA Mixture 13A, DRIVEWAYS
D	HMA APPROACH	385 lb	PG 58-28	HMA Mixture 13A, CROSS STREETS
	* HMA BOND COAT	0.05-0.15 GALLON		

LAWN * - INDICATES TOPSOIL, SEED, AND MULCH
- PAID AS RESTORATION, MODIFIED

* FOR INFORMATION ONLY

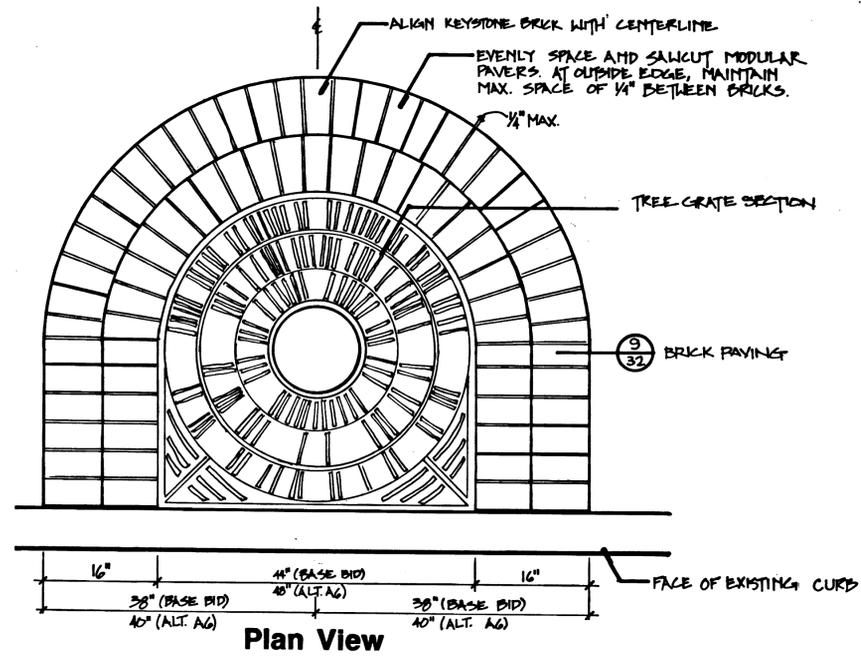
FINAL R.O.W.	REVISION	DATE	AUTH

2012 MICHIGAN STREET RECONSTRUCTION		DESIGN UNIT	N/A
DATE	OCT 20, 2011	JOB NO.	114.397 A
CHECKED BY:	STUL 37073	WORKED ON BY:	
DATE:		DATE:	



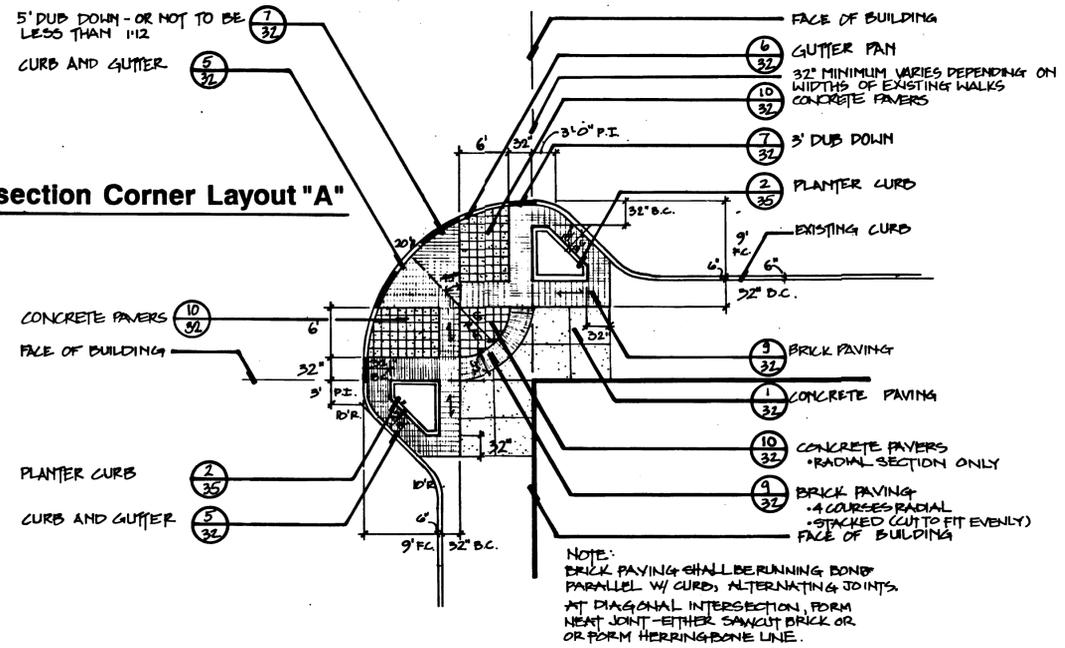
NOT TO SCALE

SHEET NO.	3
R.O.W. CONST.	3

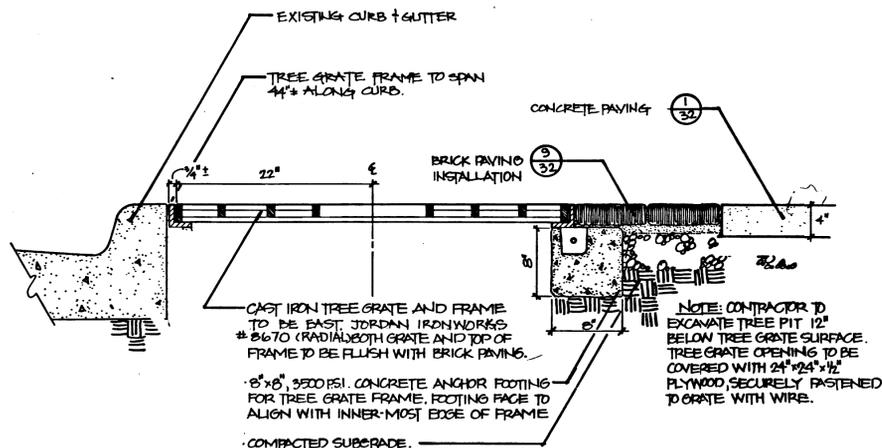


Plan View

2
34 **Typical Intersection Corner Layout "A"**
SCALE: 1" = 10'-0"

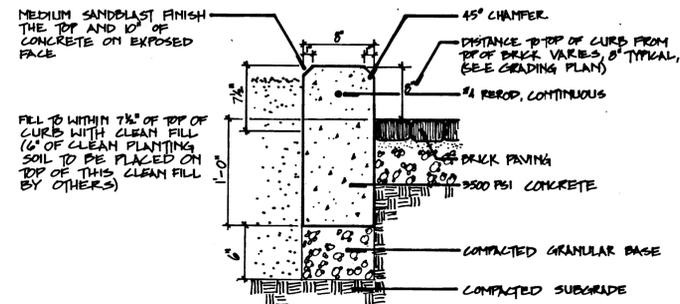


NOTE:
BRICK PAVING SHALL BE RUNNING BOND PARALLEL W/ CURBS; ALTERNATING JOINTS AT DIAGONAL INTERSECTION, FORM NEAT JOINT - EITHER SAWCUT BRICK OR OR FORM HERRINGBONE LINE.



Section

5
33 **Tree Grate Installation**
SCALE: 1 1/2" = 1'-0"

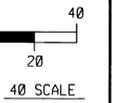


2
35 **Planter Curb Section**
SCALE: 1 1/2" = 1'-0"

NOTES:
SAWCUT CONTRACTION JOINTS EVERY 8'-10' TO 1\"/>

PLACE PRE-MOLDED 1/2\"/>

FINAL R.O.W.	
REVISION	
DATE	
AUTH	



DESIGN UNIT	N/A
JOB NO.	114397 A
DATE	OCT 20, 2011
CONST. SEC.	STUL 37073
FILE NAME	



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

GENERAL PLAN NOTES:

UNDERGROUND UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREA WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

GRADES FOR INTERSECTION

ALL INTERSECTIONS ARE TO BE CONSIDERED AS COMPLETE UNITS AND THEIR GRADES DETERMINED BEFORE CONSTRUCTION IS STARTED.

PAVEMENT REMOVAL QUANTITIES

PAVEMENT REMOVAL AS SHOWN ON THE PLANS WILL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS/HER JUDGEMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS REMOVED TO PROVIDE THE PROPER CROSS-SECTION AND BASE, ADJUSTMENTS WILL BE MADE IN THE QUANTITIES.

PROPERTY OWNERS

PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

RADI

RADI AT ALL INTERSECTION WILL BE SHOWN ON THE PLANS.

SOIL EROSION MEASURES

PLACE SEED AND MULCH AS SOON AS POSSIBLE. EROSION CONTROL FILTER BAGS, MUST BE USED IN ALL CATCH BASINS WITHIN 500 FEET DOWNSTREAM OF CONSTRUCTION.

WATER

CONTRACTORS MUST APPLY FOR A PERMIT (FREE) TO OBTAIN WATER FROM THE CITY OF MT. PLEASANT, DIVISION OF PUBLIC WORKS FOR WATER USED ON THIS PROJECT.

UTILITY CROSSINGS

CONTRACTORS MUST MAINTAIN MINIMUM 18 INCHES OF SEPARATION BETWEEN SEWER AND WATER MAIN PIPES. SAND BACKFILL REQUIRED TO A MINIMUM OF 1 FOOT ABOVE UTILITY LINES.

SIDEWALK THICKNESS

SIDEWALKS LOCATED ACROSS DRIVEWAYS AND ALLEYS SHALL BE MINIMUM 6 INCHES THICK.

PUBLIC UTILITIES

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED ON OUR SURVEY DATE NOVEMBER 21, 2011. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES.

NAME OF OWNER	KIND OF UTILITY
CONSUMERS ENERGY ATTN: RICHARD KLENDER 1325 WRIGHT AVE. ALMA, MI 48801 (517) 466-4279	ELECTRIC
DTE ENERGY ATTN: DAVE NEWCOMB CONSTRUCTION COORDINATOR 609 BJORNSON BIG RAPIDS, MI 49307 (231) 592-3244	GAS
FRONTIER ATTN: JEFF JAMES 345 PINE ST. ALMA, MI 48801 (989) 463-0392	TELEPHONE
CHARTER COMMUNICATIONS ATTN: JEFF PRICE 915 E. BROOMFIELD MT. PLEASANT, MI 48858 (989) 773-7090	CABLE T.V.
CITY OF MT. PLEASANT ATTN: GARY SCHWERIN 1303 N. FRANKLIN MT. PLEASANT, MI 48858 (989) 779-5408	WATER, SANITARY & STORM

CORE BORING INFORMATION

1 - WASHINGTON & MICHIGAN INTERSECTION	6 - MIDBLOCK UNIVERSITY TO FRANKLIN
4" ASPHALT	3.5" ASPHALT
8" GRAVEL	6" GRAVEL
36" SAND	39" SAND
2 - MIDBLOCK WASHINGTON TO MAIN INTERSECTION	7 - FRANKLIN & MICHIGAN INTERSECTION
5.5" ASPHALT	3.5" ASPHALT
8" GRAVEL	7" CONCRETE
35" SAND	3" GRAVEL
	35" SAND
3 - MAIN & MICHIGAN INTERSECTION	8 - MIDBLOCK FRANKLIN TO LANSING
3.5" ASPHALT	3.75" ASPHALT
8" GRAVEL	4" GRAVEL
37" SAND	40" SAND
4 - MIDBLOCK MAIN TO UNIVERSITY INTERSECTION	9 - LANSING & MICHIGAN INTERSECTION
5.5" ASPHALT	4" ASPHALT
7" CONCRETE	44" SAND
8" GRAVEL	
28" SAND	
5 - UNIVERSITY & MICHIGAN INTERSECTION	10 - MIDBLOCK LANSING TO FANCHER
3.5" ASPHALT	4.5" ASPHALT
6" GRAVEL	44" SAND
39" SAND	

MDOT ROAD STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

DRAINAGE STRUCTURES	R-1-E
COVER B	R-7-E
COVER K	R-15-E
COVER Q	R-18-E
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-G
DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALKS	R-29-H *
CONCRETE CURB AND CONCRETE CURB AND GUTTER	R-30-E
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80-D
UTILITY TRENCHES	R-83-B
SOIL EROSION AND SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING, AND TREE PLANTING	R-100-F

* SPECIAL DETAIL TO BE INCLUDED IN THE PROPOSAL

TRAFFIC AND SAFETY STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E *
GROUND DRIVEN SUPPORTS *	WZD-100-A *

* SPECIAL DETAIL TO BE INCLUDED IN THE PROPOSAL

SYMBOL LEGEND

(A)	DR STRUCTURE COVER, ADJ, CASE 1
(FH)	FIRE HYDRANT
(WB)	WATER SERVICE BOX
(X)	WATER VALVE
(T)	TREE
(SC)	SURVEY CONTROL POINT
(G)	GAS VALVE
(U)	GUY WIRE
(OP)	UTILITY POLE
(SS)	SANITARY SEWER MANHOLE
(ST)	STORM SEWER MANHOLE
(CB)	CATCH BASIN
(S)	SIGN
-----	WATER MAIN
-----	SANITARY SEWER MAIN
-----	STORM SEWER MAIN
-----	GAS MAIN
=====	CURB AND GUTTER
=====	SIDEWALK
-----	ROW

CONSTRUCTION QUANTITY ESTIMATES

THE FOLLOWING ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT THESE ITEMS MAY OR MAY NOT BE DETAILED OR INCLUDED ON THE PLANS AND PROFILE SHEETS.

PARTICIPATING QUANTITIES

1	LS	Mobilization
31	Ea	Dr Structure, Rem
3500	Ft	Curb and Gutter, Rem
2650	Syd	Pavt, Rem
7800	Syd	HMA Surface, Rem
2650	Syd	Sidewalk, Rem
1735	Ft	Sewer, Rem, Less than 24 inch
1600	Cyd	Excavation, Earth
100	Cyd	Subgrade Undercutting, Type II
30	Ea	Erosion Control, Filter Bag
5630	Syd	Aggregate Base, 8 inch
1	Ea	Sewer Bulkhead, 15 inch
100	Ft	Sewer, CL A, 6 inch, Tr Det B
20	Ft	Sewer, CL A, 8 inch, TR Det B
1620	Ft	Sewer, CL A, 12 inch, Tr Det B
315	Ft	Sewer, CL A, 15 inch, TR Det B
875	Ft	Sewer, CL A, 18 inch, TR Det B
2655	Ft	Video Taping Sewer and Culv Pipe
21	Ea	Dr Structure Cover, Adj, Case 1
10	Ea	Gas/Water Shutoff Cover, Adj, Case 1
11	Ea	Dr Structure Cover, Type B
30	Ea	Dr Structure Cover, Type K
1	Ea	Dr Structure Cover, Type Q
19	Ea	Dr Structure, 24 inch dia
19	Ea	Dr Structure, 48 inch dia
4	Ea	Dr Structure, 60 inch dia
3	Ft	Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot
1	Ft	Dr Structure, Add Depth of 60 inch dia, 8 foot to 15 foot
1	Ea	Dr Structure, Tap, 8 inch
1	Ea	Dr Structure, Tap, 18 inch
1125	Ton	HMA, 13A
300	Ton	HMA APPROACH
275	Syd	Driveway, Nonrein Conc, 6 Inch
3030	Ft	Curb and Gutter, Conc, Det F4, Modified
430	Ft	Driveway Opening, Conc, Det L, Modified
16,800	Sft	Sidewalk, Conc, 4 Inch
3800	Sft	Sidewalk, Conc, 6 Inch
142	Ft	Detectable Warning Surface, Modified
2420	Sft	Sidewalk Ramp, Conc, 6 inch
1970	Sft	Sidewalk, Clay Brick Pavers
1450	Sft	Sidewalk, Clay Brick Pavers, Rem
275	Ft	Pavt Marking, Waterborne, 4 inch, Yellow
725	Ft	Pavt Marking, Waterborne, 6 inch, White
1100	Ft	Pavt Marking, Polyurea, 6 inch, Crosswalk
800	Ft	Pavt Marking, Polyurea, 12 inch, Crosswalk
155	Ft	Pavt Marking, Polyurea, 24 inch, Stop Bar
21	Ea	Barric, Type III, High Intensity, Lighted, Furn
21	Ea	Barric, Type III, High Intensity, Lighted, Oper
1	LS	Traffic Regulator Control
1	LS	Minor Traffic Devices
25	Ea	Plastic Drum, High Intensity, Furn
25	Ea	Plastic Drum, High Intensity, Oper
362	Sft	Sign, Type B, Temp, Prismatic, Furn
362	Sft	Sign, Type B, Temp, Prismatic, Oper
2655	Ft	Video Taping Sewer and Culv Pipe
1537	Ft	Restoration, Modified

NON-PARTICIPATING QUANTITIES

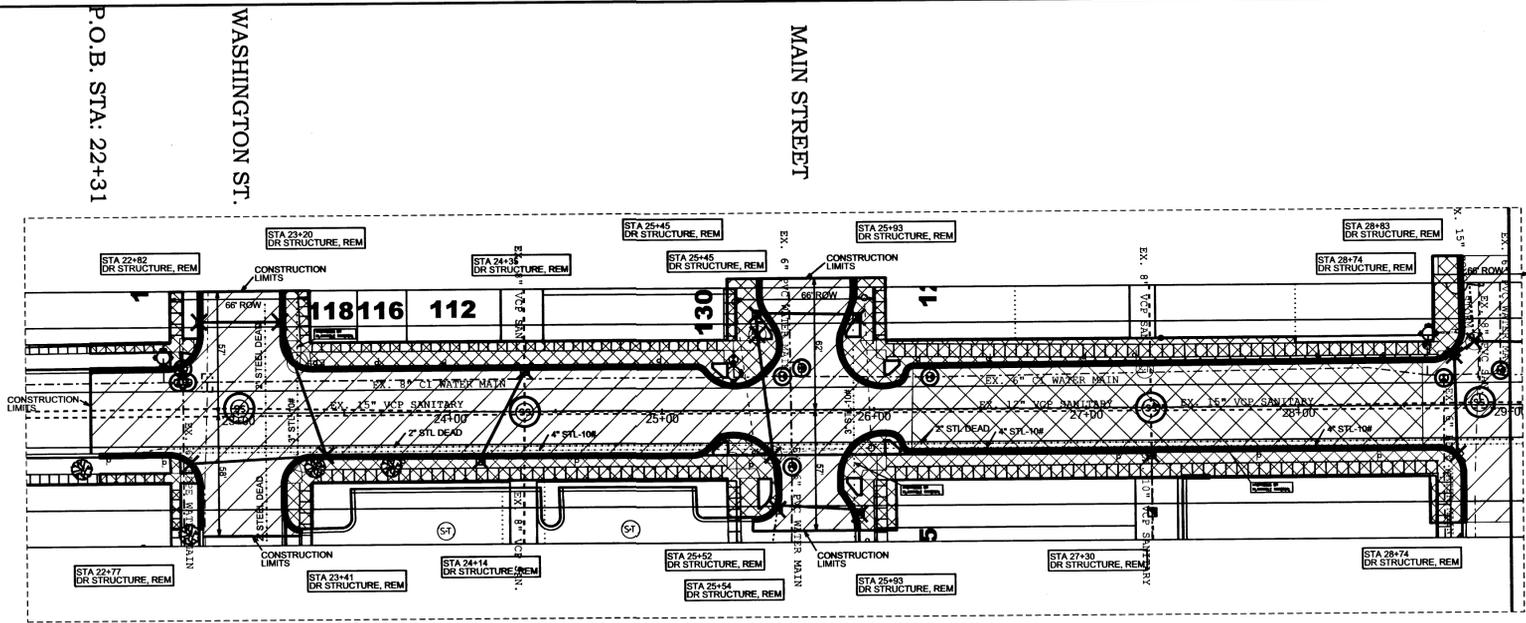
1	LS	Preconstruction Audio Video Taping
1625	Syd	Aggregate Base, 8 inch
315	Ton	HMA, 13A
670	Lft	Driveway Opening, Conc, Det M, Modified
2830	Sft	Sidewalk, Clay Brick Pavers
250	Lft	Conduit, 3 inch, Placed
16	Ea	Tree Planters
9	Ea	Tree Grates
1	Lsum	Irrigation System
5	Ea	Cornus florida (Flowering Dogwood), 2 inch
4	Ea	Malus Centurion (Prarie Rose Crabapple), 2 inch



NOTE SHEET & QUANTITY SHEET

2012 MICHIGAN STREET RECONSTRUCTION PROJECT

DATE	SCALE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
11-29-11	NO SCALE	STUL 37073	114397 A	N/A	5

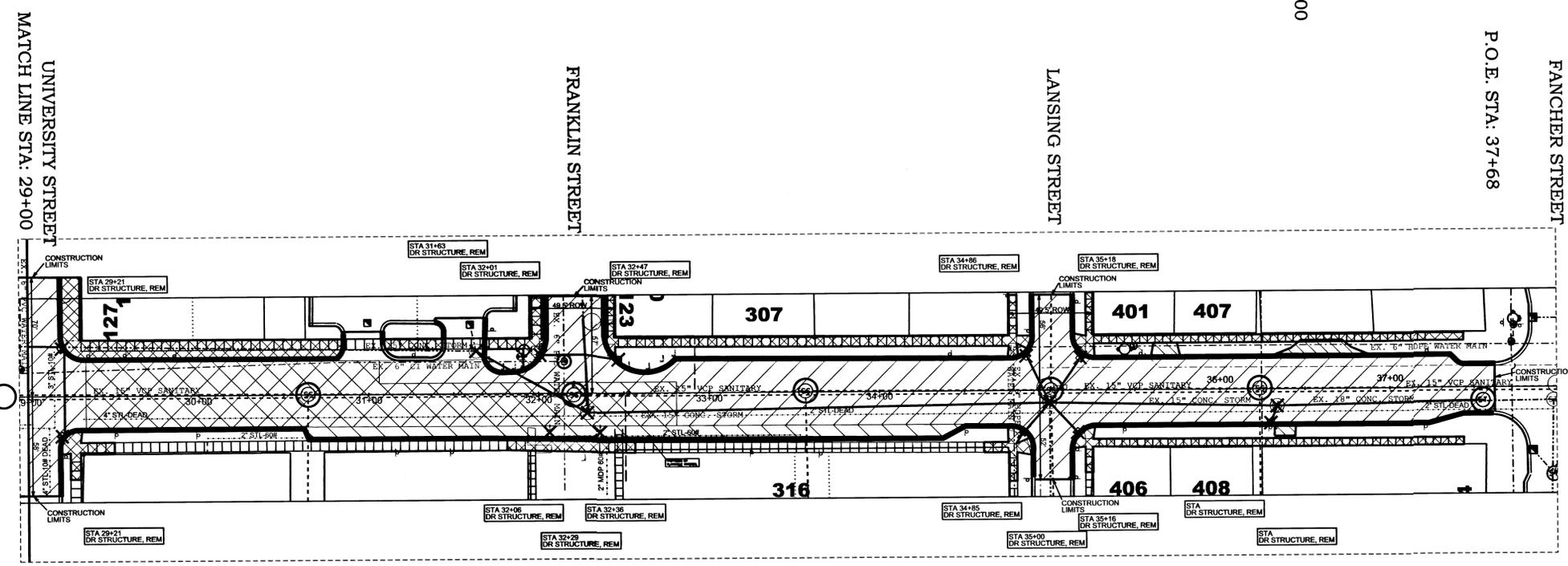


QUANTITIES THIS SHEET

ROADWAY ITEMS	QUANTITY
Mobilization, Max	1 Ls
Drainage Structure, Remove	31 Ea
Curb and Gutter, Rem	3500 Lft
Sidewalk, Rem	2650 Syd
Sidewalk, Clay Brick Pavers, Rem	1450 Sft
Pav't, Rem	2650 Syd
HMA Surface, Rem	7800 Syd
Excavation, Earth	1600 Cyd
Sewer, Rem, Less than 24 inch	1735 Lft
Sewer Bulkhead, 15 inch	2 Ea
Subgrade Undercutting, Type II	100 Cyd
Erosion Control Inlet Protection, Silt Bag	30 Ea
Drainage Structure Cover, Adj, Case 1	10 Ea
Gas/Water Shutoff Cover, Adj, Case 1	10 Ea

CORE BORING INFORMATION

1 - WASHINGTON & MICHIGAN INTERSECTION 4" ASPHALT 8" GRAVEL 36" SAND	6 - MIDBLOCK UNIVERSITY TO FRANKLIN 3.5" ASPHALT 6" GRAVEL 39" SAND
2 - MIDBLOCK WASHINGTON TO MAIN 5.5" ASPHALT 8" GRAVEL 35" SAND	7 - FRANKLIN & MICHIGAN INTERSECTION 3.5" ASPHALT 7" CONCRETE 3" GRAVEL 35" SAND
3 - MAIN & MICHIGAN INTERSECTION 3.5" ASPHALT 8" GRAVEL 37" SAND	8 - MIDBLOCK FRANKLIN TO LANSING 3.75" ASPHALT 4" GRAVEL 40" SAND
4 - MIDBLOCK MAIN TO UNIVERSITY 5.5" ASPHALT 7" CONCRETE 8" GRAVEL 28" SAND	9 - LANSING & MICHIGAN INTERSECTION 4" ASPHALT 44" SAND
5 - UNIVERSITY & MICHIGAN INTERSECTION 3.5" ASPHALT 6" GRAVEL 39" SAND	10 - MIDBLOCK LANSING TO FANCHER 4.5" ASPHALT 44" SAND



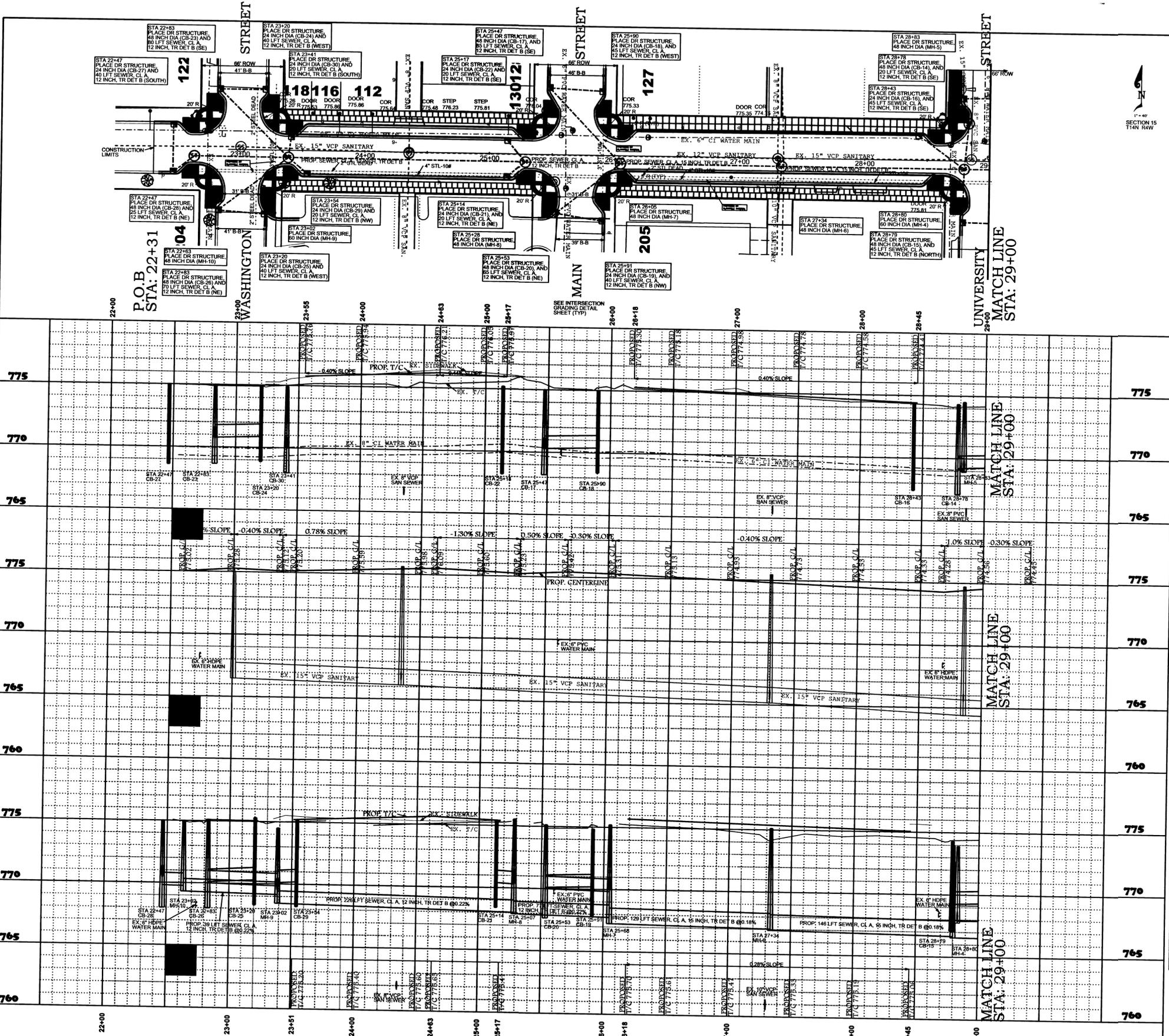
REMOVAL LEGEND

Sidewalk, Rem	
HMA Surface, Rem	
Pav't, Rem	
HMA Surface, Rem and Pav't, Rem	
Drainage Structure Cover, Adj, Case 1	
Gas/Water Shutoff Cover, Adj, Case 1	
Structure, Rem	
Curb and Gutter, Rem	
Sewer, Rem, less than 24 inch	

FINAL R.O.W.	REVISION

2012 MICHIGAN STREET RECONSTRUCTION	
DATE	CONT. SEC.
OCT 20, 2011	STUL 37073
JOB NO.	DESIGN UNIT
114397 A	N/A
WORKED ON BY:	DATE:
CHECKED BY:	DATE:

SHEET NO.	R.O.W. CONST.
6	6

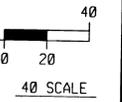


QUANTITIES THIS SHEET

PARTICIPATING ROADWAY ITEMS		QUANTITY
Aggregate Base, 8 Inch		2680 Syd
Sewer, CI A, 18 inch, Tr Det B		20 Lft
Sewer, CI A, 15 inch, Tr Det B		315 Lft
Dr Structure, 24 Inch Dia		1025 Lft
Dr Structure, 48 Inch Dia		10 Ea
Dr Structure, 60 Inch Dia		12 Ea
Dr Structure, Add Depth of 60 inch dia, 8 foot to 15 foot		1 Ft
Dr Structure Cover, Adj, Case 1		11 Ea
Dr Structure Cover, Type B		7 Ea
Dr Structure Cover, Type K		17 Ea
HMA, 13A		520 Ton
Driveway, Nonreinf. Conc., 6 Inch		150 Ton
Curb and Gutter, Conc., Det F4, Modified		100 Syd
Driveway Opening, Conc, Det L, Modified		1450 Lft
Sidewalk, Conc., 4 Inch		175 Lft
Sidewalk, Conc., 6 Inch		9400 Sft
Sidewalk Ramp, Conc, 6 inch		1900 Sft
Detectable Warning Surface, Modified		1200 Sft
Restoration, Modified		669 Lft

NON-PARTICIPATING ROADWAY ITEMS		QUANTITY
Aggregate Base, 8 Inch		670 Syd
HMA, 13A		130 Ton
Driveway Opening, Conc, Det M, Modified		445 Lft

FINAL R.O.W.	
REVISION	
NO.	
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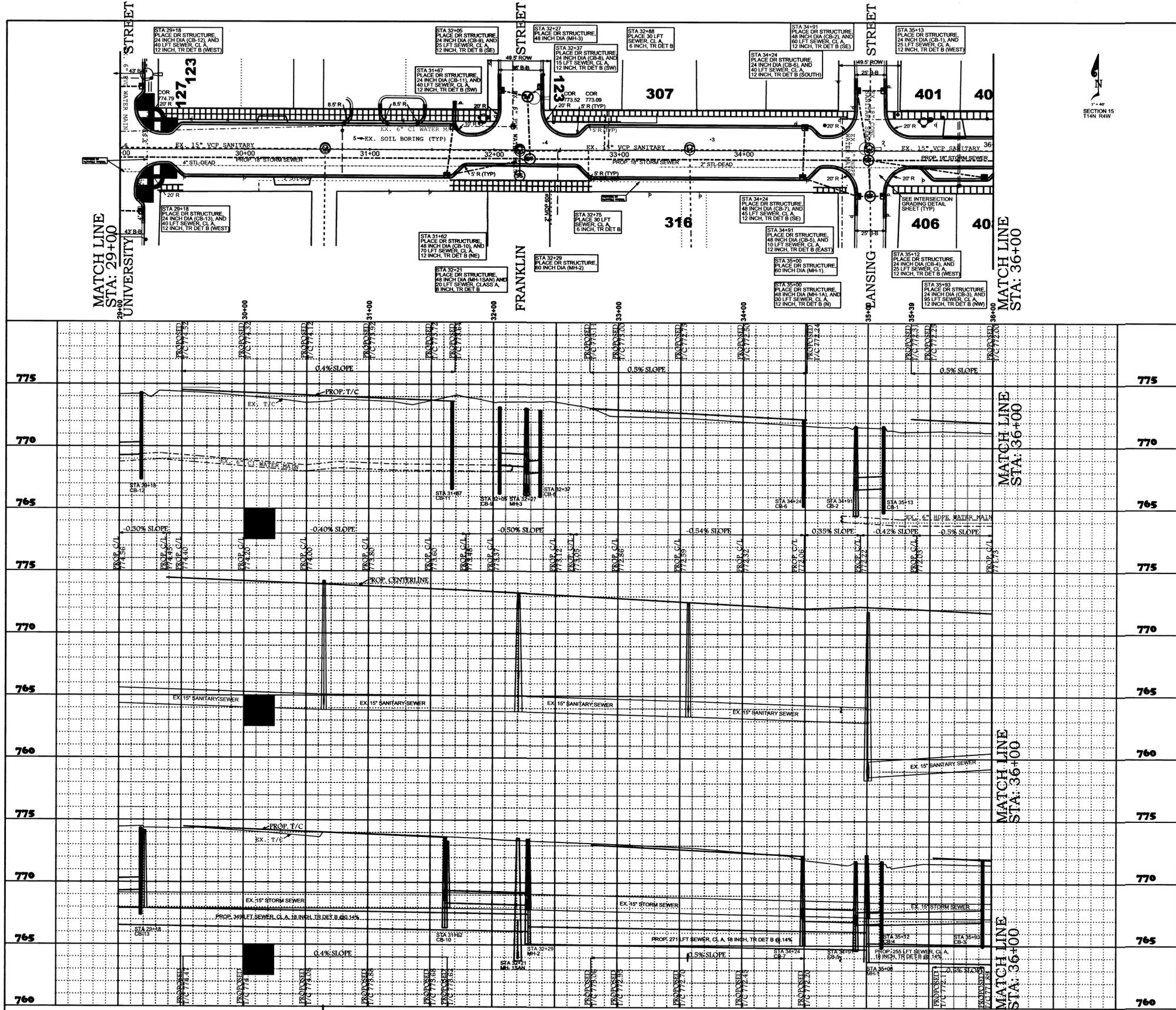
PROPOSED DRAINAGE STRUCTURES

STATION	IDENT.	OFFSET	SIZE	T/C / RIM ELEV.	REMARKS	INVERT ELEV.	COVER TYPE
28+78	CB-14	49' L	48" CB	774.32	12" INVERT EAST 12" INVERT SE'LY	769.22 769.12	K
28+79	CB-15	50' R	48" CB	774.29	12" INVERT EAST 12" INVERT NORTH	769.26 769.16	K
28+43	CB-16	21' L	24" CB	774.41	12" INVERT SE'LY	769.41	K
25+47	CB-17	54' L	48" CB	775.00	12" INVERT EAST 12" INVERT SE'LY	770.30 770.20	K
25+90	CB-18	52' L	24" CB	775.00	12" INVERT WEST	770.40	K
25+91	CB-19	52' R	24" CB	774.85	12" INVERT NW'LY	770.20	K
25+53	CB-20	46' R	48" CB	775.10	12" INVERT SE'LY	770.10	K
25+14	CB-21	21' R	24" CB	775.41	12" INVERT NE'LY	770.21	K
25+14	CB-22	12' L	24" CB	775.21	12" INVERT SE'LY	770.21	K
22+83	CB-23	28' L	48" CB	774.85	12" INVERT EAST 12" INVERT SE'LY	770.77 770.63	K
23+20	CB-24	28' L	24" CB	774.85	12" INVERT WEST	770.87	K
23+20	CB-25	51' R	24" CB	775.30	12" INVERT WEST	770.30	K
22+83	CB-26	49' R	48" CB	775.10	12" INVERT EAST 12" INVERT NE'LY	770.10 770.00	K
22+47	CB-27	21' L	24" CB	775.00	12" INVERT SOUTH	770.50	K
22+47	CB-28	21' R	48" CB	775.10	12" INVERT NORTH 12" INVERT WEST	770.40 769.80	K
23+54	CB-29	21' R	24" CB	775.20	12" INVERT NW'LY	770.20	K
23+41	CB-30	13' L	24" CB	775.40	12" INVERT SOUTH	769.90	K
28+80	MH-4	7' R	60" STM	773.95	12" INVERT NW'LY 12" INVERT SOUTH 12" INVERT NORTH 15" INVERT WEST 18" INVERT EAST	769.31 769.06 768.82 766.67 766.57	B
28+83	MH-5	29' L	48" STM	774.50	12" INVERT NW'LY 12" INVERT SOUTH 12" INVERT WEST	769.02 768.92 768.00	B
27+34	MH-6	7' R	48" STM	774.61	12" INVERT SOUTH 15" INVERT WEST 15" INVERT EAST	767.03 767.03 766.93	B
26+05	MH-7	6' R	48" STM	775.41	12" INVERT NW'LY 12" INVERT SW'LY 12" INVERT WEST 15" INVERT EAST	770.00 769.85 767.69 767.27	B
25+28	MH-8	7' R	48" STM	775.40	12" INVERT NW'LY 12" INVERT SW'LY 12" INVERT WEST 12" INVERT EAST	770.11 770.11 767.96 767.86	B
23+02	MH-9	6' R	60" STM	775.00	12" INVERT SE'LY 12" INVERT SW'LY 12" INVERT NORTH 12" INVERT NW'LY 12" INVERT WEST 12" INVERT EAST	770.10 769.84 769.80 770.46 769.06 768.46	B
22+63	MH-10	6' R	48" STM	774.50	12" INVERT SW'LY 12" INVERT EAST	769.70 769.22	B

2012 MICHIGAN STREET RECONSTRUCTION
 JOB NO. 114397 A
 DESIGN UNIT N/A
 DATE OCT 20, 2011
 CONT. SEC. STUL 37073
 CHECKED BY: DATE: WORKED ON BY: DATE:



SHEET NO.	7
R.O.W	
CONST.	



QUANTITIES THIS SHEET

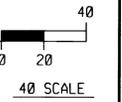
PARTICIPATING ROADWAY ITEMS	QUANTITY
Aggregate Base, 8 Inch	2425 Syd
Sewer, C.I.A., 18 inch, Tr Det B	700 Lt
Sewer, C.I.A., 12 inch, Tr Det B	595 Lt
Sewer, C.I.A., 8 inch, Tr Det B	20 Lt
Sewer, C.I.A., 6 inch, Tr Det B	60 Lt
Dr Structure, 24 Inch Dia	9 Ea
Dr Structure, 48 Inch Dia	7 Ea
Dr Structure, 60 Inch Dia	2 Ea
Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	
Dr Structure, Add Depth of 60 inch dia, 8 foot to 15 foot	1 Ft
Dr Structure Cover, Adj. Case 1	8 Ea
Dr Structure Cover, Type B	4 Ea
Dr Structure Cover, Type K	13 Ea
Dr Structure Cover, Type Q	1 Ea
HMA, 13A	480 Ton
HMA Approach	25 Ton
Driveway, Nonreinf. Conc, 6 Inch	65 Syd
Curb and Gutter, Conc, Det F4, Modified	1450 Lt
Driveway Opening, Conc, Det L, Modified	155 Lt
Sidewalk, Conc, 4 Inch	6500 Sft
Sidewalk, Conc, 6 Inch	1000 Sft
Sidewalk Ramp, Conc, 6 inch	1100 Sft
Detectable Warning Surface, Modified	110 Lt
Restoration, Modified	700 Lt

NON-PARTICIPATING ROADWAY ITEMS	QUANTITY
Aggregate Base, 8 Inch	875 Syd
HMA, 13A	170 Ton
Driveway Opening, Conc, Det M, Modified	65 Lt

PROPOSED DRAINAGE STRUCTURES

STATION	IDENT.	OFFSET	SIZE	T/C / RIM ELEV.	REMARKS	INVERT ELEV.	COVER TYPE
35+13	CB-1	50' L	24" CB	771.73	12" INVERT WEST	766.73	K
34+91	CB-2	50' L	48" CB	771.73	12" INVERT EAST	766.63	K
35+93	CB-3	22' R	24" CB	771.89	12" INVERT NWLY	766.89	K
35+12	CB-4	35' R	24" CB	771.80	12" INVERT WEST	766.80	K
34+91	CB-5	35' R	48" CB	771.80	12" INVERT NWLY	766.94	K
32+24	CB-6	22' L	24" CB	772.24	12" INVERT SOUTH	767.24	K
32+24	CB-7	22' R	48" CB	772.20	12" INVERT NORTH	767.14	K
32+37	CB-8	53' L	24" CB	772.95	12" INVERT SWLY	767.95	K
32+05	CB-9	49' L	24" CB	773.19	12" INVERT SWLY	768.50	K
31+62	CB-10	22' R	48" CB	773.62	12" INVERT NORTH	768.45	K
31+62	CB-11	22' L	48" CB	773.55	12" INVERT SOUTH	768.55	K
29+18	CB-12	52' L	24" CB	774.32	12" INVERT WEST	769.32	K
29+18	CB-13	49' R	24" CB	774.36	12" INVERT WEST	769.36	K
35+00	MH-1A	36' R	48" STM	771.80	12" INVERT SOUTH	767.20	B
					12" INVERT EAST	766.70	
					12" INVERT WEST	766.60	
					12" INVERT NORTH	764.80	
35+00	MH-1	6' R	60" STM	772.32	12" INVERT SOUTH	764.70	B
					12" INVERT SE'LY	766.68	
					12" INVERT SW'LY	766.50	
					12" INVERT NW'LY	766.40	
					18" INVERT WEST	764.70	
					18" INVERT EAST	763.70	
32+29	MH-2	6' R	60" STM	773.00	12" INVERT SW'LY	768.25	B
					12" INVERT NORTH	766.00	
					18" INVERT WEST	766.08	
					18" INVERT EAST	765.08	
32+27	MH-3	44' L	48" STM	773.10	12" INVERT NW'LY	768.40	B
					12" INVERT NORTH	767.85	
					12" INVERT SOUTH	767.75	
					12" INVERT SOUTH	766.10	
32+21	MH-1SAN	21' R	48" SAN	773.30	8" INVERT SOUTH	766.37	Q
32+21	EX. MH	1' R			8" INVERT NORTH	763.87	
					8" TAP	763.80	

FINAL R.O.W.	
REVISION	
DATE	
AUTH	



2012 MICHIGAN STREET RECONSTRUCTION	
DATE	OCT 20, 2011
CONT. SEC.	STUL_37073
JOB NO.	114397 A
DESIGN UNIT	N/A



SHEET NO.	8
CONSTR.	B

FILE NAME: DATE: WORKED ON BY: DATE:

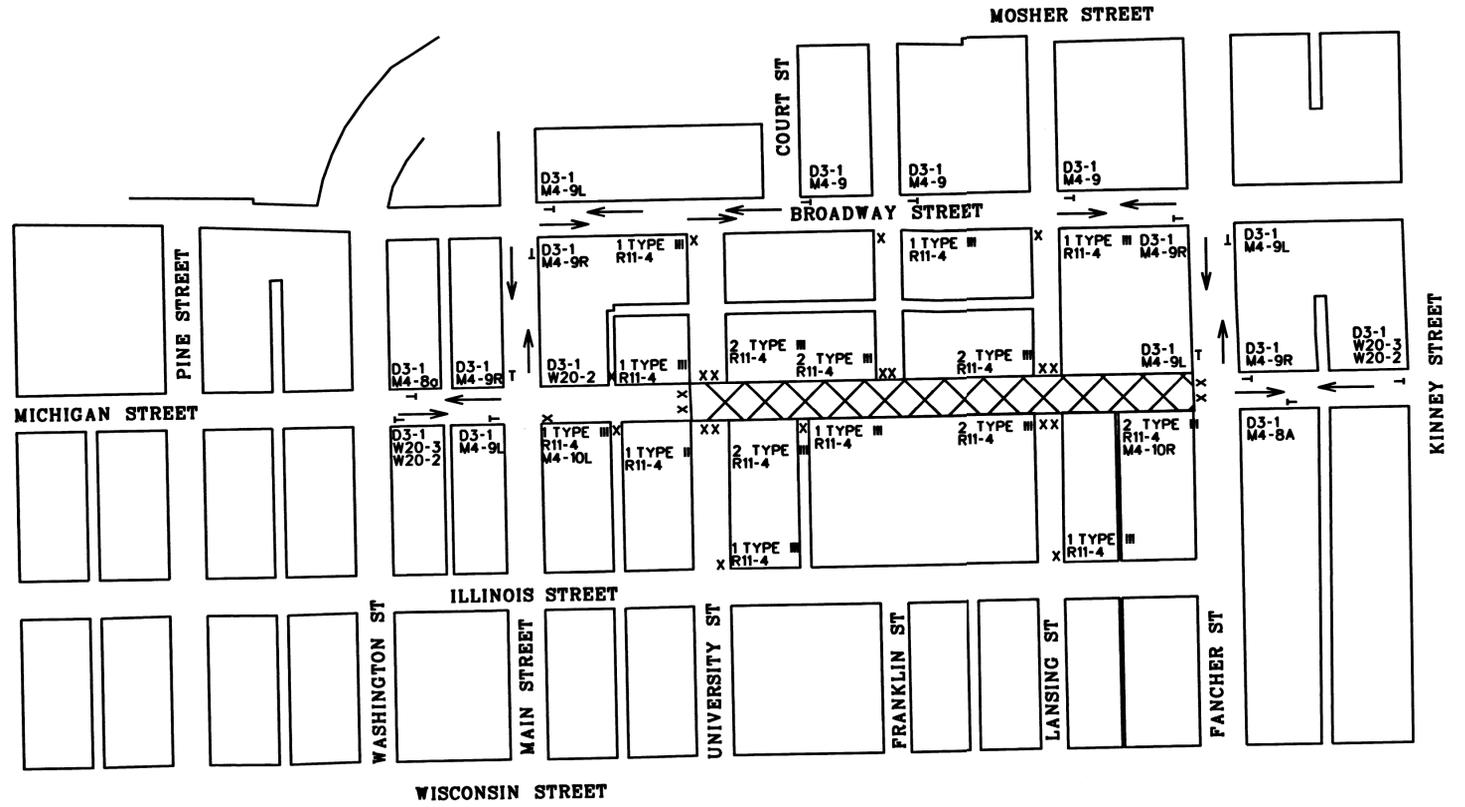
CONTROL SECTION STUL 37073 JOB NO. 114397 A SHEET NO. 7
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FILE NAME: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

DETOUR SIGNAGE:		
SIGN DESCRIPTION	SIZE	QUANTITY
M4-10R	48" x 18"	1
M4-10L	48" x 18"	1
M4-8a	24" x 18"	2
M4-9R	30" x 24"	4
M4-9L	30" x 24"	4
M4-9	30" x 24"	3
ROAD CLOSED TO THRU TRAFFIC R11-4	60" x 30"	15
DETOUR AHEAD W20-2	48" x 48"	2
ROAD CLOSED AHEAD W20-3	48" x 48"	2
WASHINGTON ST (WASHINGTON ST.) D3-1	30" x 12"	15
TYPE III W/ STEADY BURN	12 FT LONG	21
TYPE II	36" x 18"	25

LEGEND

Construction Limits	
Type III Barricade	x
Traffic Direction	
Sign	1

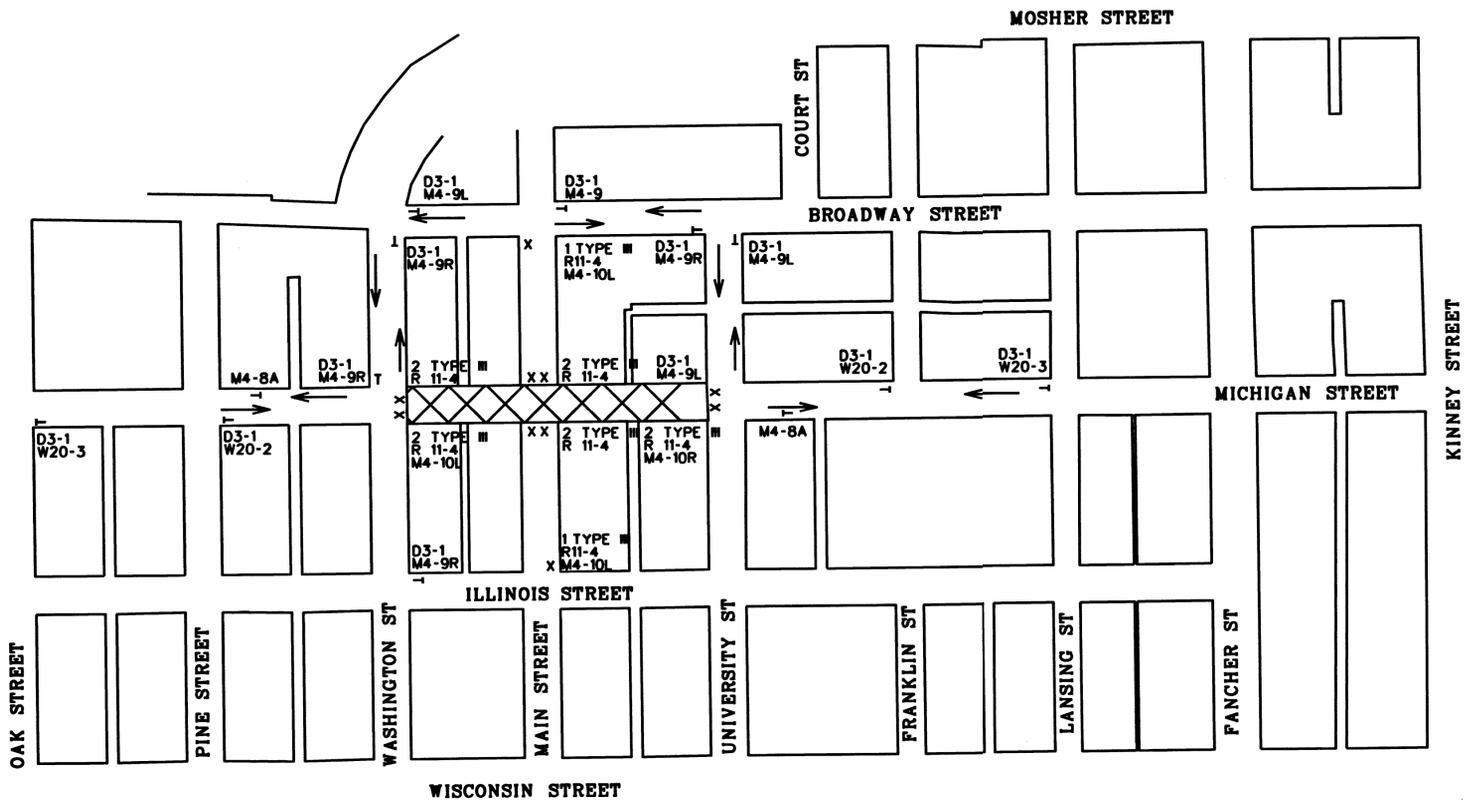


PHASE 1 DETOUR SHEET

2012 MICHIGAN STREET RECONSTRUCTION
 DATE: 12-02-11 SCALE: NONE CONT. SEC. STUL 37073 JOB NO. 114397 A SHEET NO. 12 DESIGN UNIT

DETOUR SIGNAGE:		
SIGN DESCRIPTION	SIZE	QUANTITY
M4-10R	48" x 18"	1
M4-10L	48" x 18"	3
M4-8a	24" x 18"	2
M4-9R	30" x 24"	4
M4-9L	30" x 24"	3
M4-9	30" x 24"	1
ROAD CLOSED TO THRU TRAFFIC R11-4	60" x 30"	7
DETOUR AHEAD W20-2	48" x 48"	2
ROAD CLOSED AHEAD W20-3	48" x 48"	2
MICHIGAN ST (MICHIGAN ST.) D3-1	30" x 12"	12
TYPE III W/ STEADY BURN	12 FT LONG	12
TYPE II	36" x 18"	25

LEGEND	
Construction Limits	
Type III Barricade	x
Traffic Direction	
Sign	1



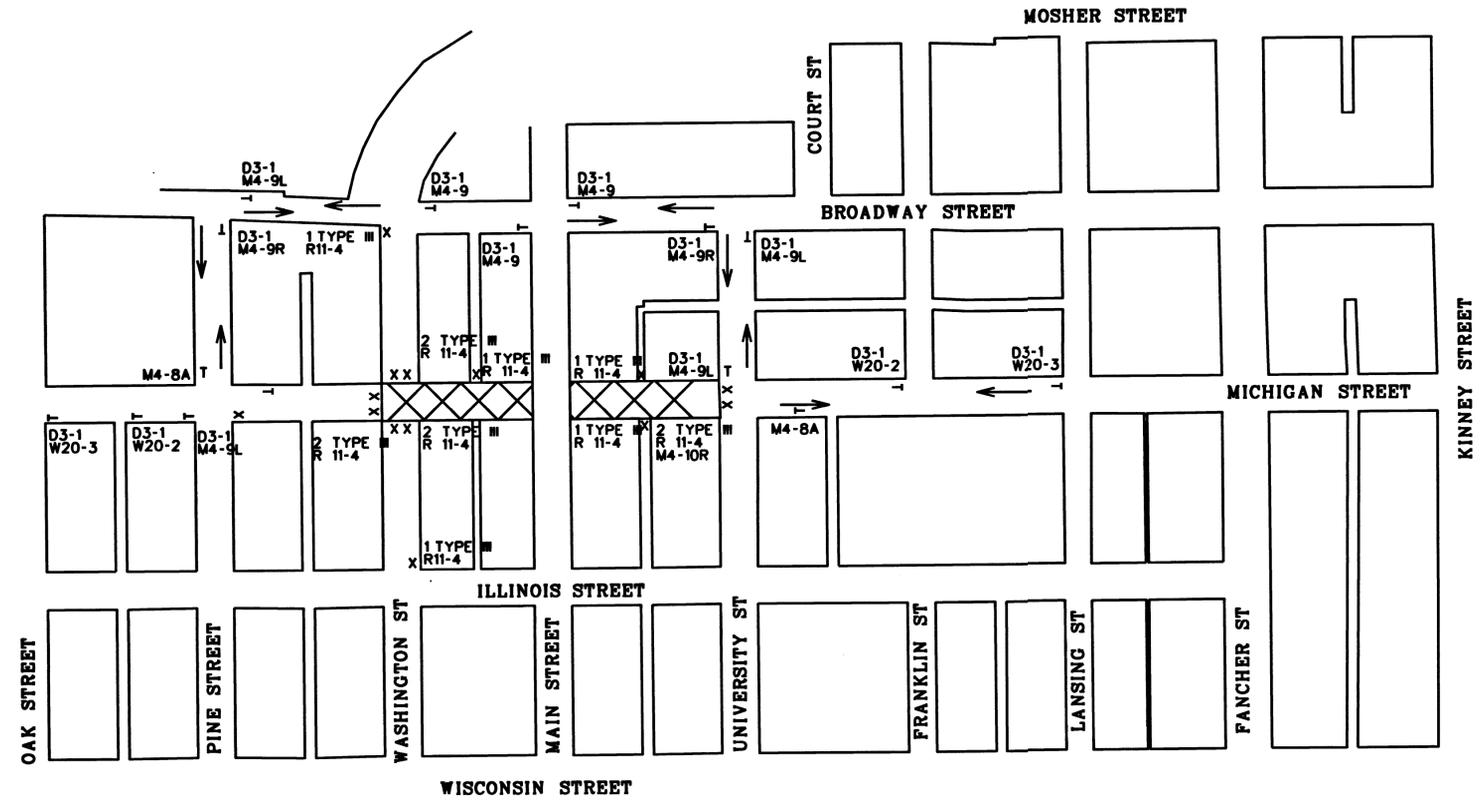
2012 MICHIGAN STREET RECONSTRUCTION
 DATE 12-02-11 SCALE NONE JOB NO. 114397 A
 CONT. SEC. STUL 37073 DESIGN UNIT

SHEET NO. 13
 R.O.W. CONST.

SHEET NO. 7
 JOB NO. 114397 A
 CONTROL SECTION STUL 37073
 EXISTING BY: DATE: _____
 PROPOSED BY: DATE: _____
 LAST CORRECTION BY: DATE: _____
 FILE NAME: _____
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

DETOUR SIGNAGE:		
SIGN DESCRIPTION	SIZE	QUANTITY
M4-10R	48" x 18"	1
M4-10L	48" x 18"	0
M4-8o	24" x 18"	2
M4-9R	30" x 24"	2
M4-9L	30" x 24"	4
M4-9	30" x 24"	3
ROAD CLOSED TO THRU TRAFFIC R11-4	60" x 30"	9
DETOUR AHEAD W20-2	48" x 48"	2
ROAD CLOSED AHEAD W20-3	48" x 48"	2
MICHIGAN ST (MICHIGAN ST.) D3-1	30" x 12"	13
TYPE III W/ STEADY BURN	12 FT LONG	13
TYPE II	36" x 18"	25

LEGEND	
Construction Limits	
Type III Barricade	x
Traffic Direction	
Sign	1



PHASE 2 DETOUR SHEET
 WHEN WASHINGTON CLOSED

SHEET NO. 14
 R.O.W. CONST.

2012 MICHIGAN STREET RECONSTRUCTION
 DATE 12-02-11
 SCALE NONE
 CONT. SEC. STUL 37073
 JOB NO. 114397 A
 DESIGN UNIT

