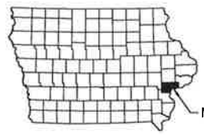
LETTING DATE: JUNE 16, 2020

STPN-038-1(15)--2J-70

MUSCATINE COUNTY

This project is covered by Iowa Department of Natural Resources NPDES General Permit No. 2. The Contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.



REFER TO SHEET A.05 FOR A LISTING OF APPLICABLE STANDARD ROAD PLANS.

IOWA DOT

Highway Division

PLANS OF PROPOSED IMPROVEMENTS ON THE

URBAN ROAD SYSTEM

CITY OF MUSCATINE

MUSCATINE COUNTY

IOWA DOT PROJECT NO. STPN-038-1(15)--2J-70

UST-038-1(17)--4A-70

STPN-038-1(17)--23-70

CS-TSF-5330(628)--85-70

TOTAL SHEETS 201

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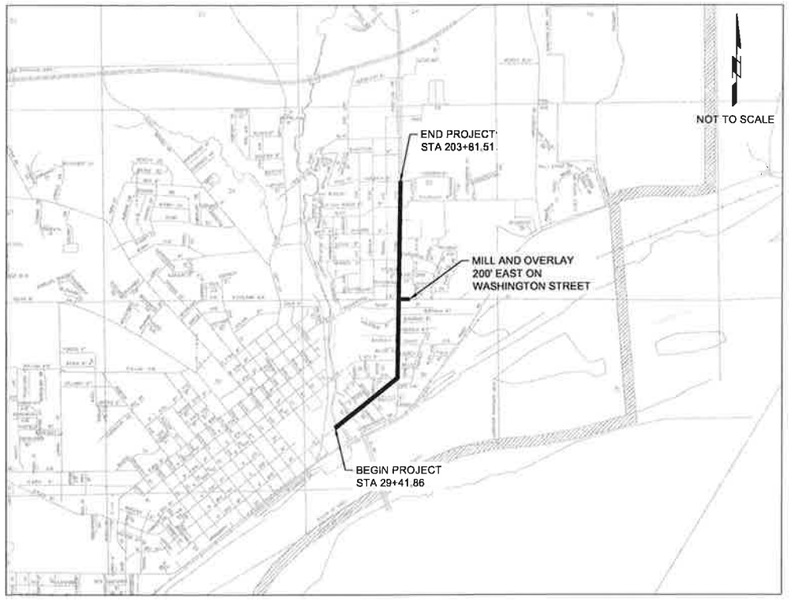
A.01 - A.05	Title Sheet / Legend / General Notes / Standard Road Plans
B.01 - B.05	Typical Sections
C.01 - C.12	Estimated Project Quantities, Estimate Reference Notes, Tabulations
D.01 - D.15	Roadway Plan and Profile
E.01 - E.03	Side Street Plan and Profile
F.01 - F.08	Grading Plan
G.01 - G.02	Geometric Control
H.01 - H.08	Right of Way Plan
J.01 - J.35	Traffic Control
J.36 - J.38	Traffic Control Tabulations
K.01 - K.13	Intersection Details
L.01 - L.02	Jointing Plan
N.01 - N.09	Traffic Signal Plans
N.10 - N.24	Pavement Marking /Signing Plan
RR.01 - RR.10	Erosion Control Plan
R.01 - R.09	Removal Plan
S.01 - S.46	Sidewalk Plan
S.47	Sidewalk Details

Project Location Map



MUSCATINE PARK AVENUE FOUR TO THREE LANE CONVERSION

IA 38 : IA 92 TO HARRISON ST IN MUSCATINE

PCC SIDEWALK / TRAIL, HMA RESURFACING WITH MILLING

REFER TO PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS

MILEAGE SUMMARY	1O5-1 09-27-94	
DIV.		
1 / 1	LOCATION	LIN. FT. / MILES
	E. 2ND ST / PARK AVE STA 29+41.86 TO STA 50+72.40 STA 50+80.90 TO STA 71+47.95 STA 171+47.95 TO STA 203+81.51	7426 / 1.41
	TOTALS	7426 / 1.41

DESIGN DATA	1O1-5 04-30-02
POSTED SPEED	30 MPH
DESIGN SPEED	35 MPH
ADT	9,900

UTILITY CONTACTS

MUSCATINE PUBLIC WORKS DEPARTMENT
1459 Washington St.
Muscatine, IA 52761
Jim Edgmond
City Engineer
ph. 563-263-8933

Sewer Department
1459 Washington St.
Muscatine, IA 52761
Dave Popp

Street Department
1459 Washington St.
Muscatine, IA 52761
Randy Howell

MUSCATINE POWER AND WATER
3205 Cedar St.
Muscatine, IA 52761
Karl Tammer
ph. 563-263-2631

Water Mains
Muscatine Power & Water
3205 Cedar St.
Muscatine, IA 52761
ph. 563-263-2631

ELECTRIC LINES
Eastern Iowa Light and Power
600 E 5th St.
Wilton, IA 52778
Chad Ruden
ph. 563-529-3727

COMMUNICATION LINES
Century Link
3908 Utica Ridge Rd
Bettendorf, IA 52722
Antonio Gleasner
ph. 563-355-6402

WindStream
1450 N. Center Point Rd
Hiawatha, IA 52233
Joe Green
ph. 319-790-7510

Muscatine Power and Water
3205 Cedar St.
Muscatine, IA 52761
Tom Lewis
ph. 563-263-2631

Iowa Communications Network (ICN)
400 E 14th St
Des Moines, IA 50319
Kent Frie
ph. 515-725-4725

GAS MAINS
Alliant Energy
215 Oak Street
Muscatine, IA 52761
John Carney
ph. 563-288-3322

IOWA ONE CALL

1-800-292-8989

The Utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.

IOWA DEPARTMENT OF TRANSPORTATION 'STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION', SERIES 2015 AND ALL CURRENT GENERAL SUPPLEMENTAL SPECIFICATIONS AND MATERIAL INSTRUCTIONAL MEMORANDUMS (IM) SHALL GOVERN AS REFERENCED.

MUTCD 2009 AS ADOPTED BY IOWA DEPARTMENT OF TRANSPORTATION.

SEE SPECIAL PROVISION FOR TRAFFIC SIGNAL

UTILITY NOTE

THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC., AND NOT SHOWN ON THIS DRAWING.

MUSCATINE PUBLIC WORKS DEPARTMENT

THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR APPROVAL BY CITY COUNCIL

CITY ENGINEER — DATE 4/2/2020

LICENSED PROFESSIONAL ENGINEER
BARRETT HUBBARD
23274
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: B. Hubbard

NAME: BARRETT HUBBARD

DATE: 04/02/2020 LICENSE NUMBER: 23274

MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2021

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: ALL EXCEPT N.01-N-09

SEE N.01 FOR TRAFFIC SIGNAL CERTIFICATION AND SEAL

Iowa DOT Project Number: STPN-038-1(15)--2J-70 PIN: 19-70-038-010

S-H Project Number: 3172470

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
316 2nd Street SE Suite 500 | Cedar Rapids, Iowa 52406
319.364.0227 | fax 319.364.4251 | shive-hattery.com
Iowa | Illinois | Indiana | Nebraska

FINAL PLANS - 04-02-2020

MUSCATINE PARK AVE FOUR TO THREE LANE CONVERSION - FINAL PLANS

LEGEND

EXISTING GENERAL SITE

PLAN MARK	DESCRIPTION
	EXISTING STRUCTURE
	BOLLARD
	SHRUB
	DECIDUOUS TREE
	CONIFEROUS TREE
	SINGLE POLE SIGN
	DOUBLE POLE SIGN
	TRAFFIC SIGNAL WITH ARM
	TREE LINE
621	MINOR CONTOUR
620	MAJOR CONTOUR

LEGEND

RIGHT-OF-WAY

PLAN MARK	DESCRIPTION
ROW	PROPOSED RIGHT-OF-WAY
ROW	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	TEMPORARY EASMENT
	PERMANENT EASEMENT

LEGEND

GENERAL SITE GRADING / EROSION CONTROL

PLAN MARK	DESCRIPTION
2%	SLOPE ARROW
	FLOW ARROW
	SILT FENCE
	INLET PROTECTION
	COMPOST SOCK
	GRADING LIMITS

LEGEND

UTILITY LINES

EXISTING LINE TYPE	DESCRIPTION	PROPOSED LINE TYPE
OE	ELECTRIC - OVERHEAD	OE
E	ELECTRIC - UNDERGROUND	E
G	GAS MAIN	G
W	WATER MAIN	W
	SANITARY SEWER	
	STORM SEWER	
T	TELEPHONE - UNDERGROUND	T
FO	FIBER OPTICS	FO

LEGEND

SURVEY

PLAN MARK	DESCRIPTION
BM	BENCH MARK
	BOUND
	IRON ROD - FOUND
	IRON ROD - SET
	MONUMENT FOUND
	MONUMENT SET
	X CUT FOUND
	X CUT SET
	RIGHT OF WAY MARKER
	DRILL HOLE
	STATION MARKER
	SOIL BORING
	PROPERTY CORNER
736.43 TOP	SURVEY POINT ELEVATION

LEGEND

UTILITIES

PLAN MARK	DESCRIPTION
W	WATER IRRIGATION VALVE
	UTILITY POLE W/TRANSFORMER
	WATER SHUTOFF VALVE
	GUY ANCHOR
	FIRE HYDRANT
	FLARED END SECTION
	VALVE
C	CABLE TV PEDESTAL
	CLEANOUT
J	JUNCTION BOX
MH	MANHOLE
D	STORM MANHOLE
E	ELECTRICAL MANHOLE
S	SANITARY MANHOLE
T	TELEPHONE MANHOLE
T	TELEPHONE PEDESTAL
V	VAULT BOX
HH	HANDHOLE
S	SIGNAL BOX
G	GAS METER
E	ELECTRIC METER
W	WATER METER
	CURB INLET
	INTAKE - CIRCLE
	INTAKE - RECTANGLE
	INTAKE - SQUARE

LEGEND

REMOVAL OF SIDEWALK

REMOVAL OF CURB AND GUTTER

PAVEMENT SCARIFICATION

REMOVAL OF PAVED DRIVEWAY

REMOVAL OF PAVEMENT

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GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (LATEST EDITION).
2. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS
3. NOTIFY THE CITY OF MUSCATINE A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY.
4. THE CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION AND CITY STANDARDS.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EROSION CONTROL MEASURES AND MAINTAIN THEM THROUGHOUT THE DURATION OF THE PROJECT.
6. CONSTRUCTION ACTIVITIES ARE TO BE LIMITED TO THE EXISTING RIGHT-OF-WAY AND ADJACENT EASEMENT AREAS. IF ADDITIONAL AREAS ARE NEEDED FOR STAGING, STORAGE, ETC., IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN WRITTEN PERMISSION FROM THE PROPERTY OWNER(S). COPIES OF THE AGREEMENTS SHALL BE SUBMITTED TO THE CITY OF MUSCATINE PRIOR TO THE USE OF PROPERTY.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, ORDERING MATERIALS, AND BEGINNING CONSTRUCTION.
8. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITIES REGARDING RELOCATION, ADJUSTMENT OR TEMPORARY SUPPORT OF THEIR FACILITIES.
9. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
10. SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES. CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
11. IT IS INTENDED THAT ALL COSTS OF MATERIALS, EQUIPMENT, TOOLS, LABOR AND INCIDENTALS BE PAID FOR UNDER THE ITEMS SHOWN ON THE PLAN DRAWINGS.
12. KEEP ADJACENT PUBLIC STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT.
13. PROTECT ALL EXISTING FEATURES (INCLUDING BUT NOT LIMITED TO WALLS, TREES, LANDSCAPING, DRIVEWAYS, SIDEWALKS, CURBS, PAVEMENT, UTILITIES, ETC.) NOT SPECIFICALLY NOTED FOR REMOVAL. FEATURES NOT DESIGNATED FOR REMOVAL THAT ARE DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
14. THE MEANS AND METHODS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
15. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
16. MAINTAIN ACCESS TO PROPERTIES ALONG THIS PROJECT AT ALL TIMES.

TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS, AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THOSE CONSTRUCTION DOCUMENTS.
2. FURNISH AND INSTALL ALL TRAFFIC CONTROL DEVICES AND MAINTAIN IN THE CORRECT POSITION. PROMPTLY CLEAN AND REPLACE DAMAGED TRAFFIC CONTROL DEVICES. PATROL THE WORK AREAS DAILY (AT A MINIMUM) TO ENSURE ALL TRAFFIC CONTROL DEVICES ARE PROPERLY SET.
3. WITHIN PROJECT LIMITS, REMOVE OR COVER CONFLICTING PERMANENT SIGNAGE. DELIVER SIGNS AND POSTS TO THE MUSCATINE PUBLIC WORKS DEPARTMENT.
4. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 LANE IN EACH DIRECTION DURING PATCHING OPERATIONS ON E 2ND ST AND PARK AVENUE.
5. ALL PATCHES ON SECONDARY ROADS SHALL BE COMPLETED IN HALF WIDTHS. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES DURING DURATION OF CLOSURE INCLUDING BUT NOT LIMITED TO FLAGGER AND DETOUR SIGNS.

TRAFFIC CONTROL NOTES (CONT)

6. MINIMUM 10' LANE WIDTHS PLUS 1' FOR TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.
7. CONSECUTIVE ACCESS POINTS SERVING THE SAME BUSINESS SHALL NOT BE CLOSED CONCURRENTLY DURING STAGING OPERATIONS.
8. THE CONTRACTOR SHALL COORDINATE OR MAKE ACCOMMODATIONS IN THE CONSTRUCTION AREA FOR MAIL AND PARCEL DELIVERY SERVICE, PARKING, DRIVEWAY, GARBAGE COLLECTION, AND EMERGENCY VEHICLE ACCESS.
9. NOTIFICATION (DOOR HANGERS) SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS AND RESIDENTS A MINIMUM OF ONE WEEK (BUT NOT MORE THAN TWO WEEKS) PRIOR TO COMMENCING CONSTRUCTION. WORK WILL NOT BEGIN UNLESS NOTIFICATION HAS BEEN PROVIDED IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOTIFY RESIDENTS USING DOOR HANGERS. DOOR HANGERS SHALL INCLUDE THE FOLLOWING INFORMATION:
    - CONTRACTOR'S NAME AND EMERGENCY CONTACT NUMBERS
    - DESCRIPTION OF CONTRACTOR'S ACTIVITIES
    - DATE OF CONSTRUCTION ACTIVITIES IN THE AREA
    - ESTIMATED DURATION OF CONSTRUCTION ACTIVITIES IN THE AREA
    - DESCRIPTION/LOCATION OF AVAILABLE RESIDENTIAL PARKING
10. PUBLIC MEETING REQUIRED PRIOR TO BEGINNING CONSTRUCTION.

PAVEMENT MARKING NOTES

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH SECTION 2527 OF THE IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
2. ALL PERMANENT PAVEMENT STRIPING SHALL BE DONE WITH DURABLE PAINT PER IOWA DOT SPECIFICATION 2527.
3. PRIOR TO APPLYING THE PAVEMENT MARKING MATERIAL, THE PAVEMENT SHALL BE CLEANED ACCORDING TO THE MANUFACTURER, DRY, AND FREE OF DEBRIS OR ANY OTHER MATERIAL THAT WOULD REDUCE THE ADHESION OF THE MARKINGS ON THE PAVEMENT.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE AND VERIFY ALL EXISTING PAVEMENT MARKINGS AND LANE/ROAD WIDTHS. IT IS THE INTENTION THAT THE TWO-WAY LEFT TURN LANE MAINTAIN A CONSTANT 14' WIDTH AND BE CENTERED BASED ON THE EXISTING ROADWAY CENTERLINE FOR THE ENTIRE DURATION OF THE PROJECT. THE OUTSIDE LANE WIDTHS WILL VARY BASED ON THE WIDTH OF THE ROADWAY BUT SHALL BE EQUAL IN WIDTH.
5. STAGING THE PAVEMENT MARKING OPERATION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL, TEMPORARY SIGNAGE OR TEMPORARY MARKINGS DURING THE PAVEMENT MARKING OPERATIONS AND SHALL BE IN ACCORDANCE WITH SECTION 2528 OF THE IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND BE CONSIDERED INCIDENTAL TO THESE ITEMS.
6. NO SECTION OF ROADWAY SHALL BE LEFT UNMARKED OUTSIDE OF CONSTRUCTION HOURS OR WHILE THE CONTRACTOR IS NOT PRESENT.
7. ADEQUATE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO MINIMIZE TRAFFIC PASSING OVER ANY FRESH PAVEMENT MARKINGS. ANY PAVEMENT MARKINGS OR SYMBOLS THAT ARE NOT TO THE SATISFACTION OF THE OWNER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

PATCHING NOTES

1. ALL PATCH MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF MUSCATINE "CITY GUIDELINES FOR REPAIRS IN STREETS" AND "MINIMUM SIZE PATCHES FOR STREET REPAIR"
2. ALL PCC CONCRETE SHALL BE IOWA DOT C MIX 550 PSI FLEXURAL STRENGTH IN 28 DAYS.
3. PATCHES SHALL BE EIGHT (8) $\frac{1}{2}$ INCH THICKNESS MINIMUM.
4. A MINIMUM COMPACTION OF 95% OF STANDARD PROCTOR DENSITY IS REQUIRED UNDER PAVING AND SIDEWALKS.
5. SAW CUTS SHALL BE FULL DEPTH, FOR FULL DEPTH PCC PATCHES.
6. ALL PATCHES SHALL BE PAVED AT A CONSTANT SLOPE TO MINIMIZE PONDING.

CONSTRUCTION SURVEY SPECIAL REQUIREMENTS

A. ALL CONSTRUCTION SURVEYS SHALL BE PERFORMED WITH A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IN RESPONSIBLE CHARGE, IN ACCORDANCE WITH PROVISIONS OF CHAPTER 542B, CODE OF IOWA.

B. PRIOR TO CONSTRUCTION, THE LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IN RESPONSIBLE CHARGE OF CONSTRUCTION SURVEY SHALL PHYSICALLY LOCATE AND EXAMINE SURVEY CONTROL POINTS SHOWN IN CONTRACT DOCUMENTS, VERIFY THEY ARE INTACT AND AT SPECIFIED LOCATIONS AND ELEVATIONS. ADDITIONALLY, THE ENGINEER OR SURVEYOR SHALL DETERMINE IF THE CONTROL POINTS ARE SUFFICIENT TO PROVIDE CONTROL FOR CONSTRUCTION SURVEY ON THE PROJECT.

C. PRIOR TO CONSTRUCTION, THE LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IN RESPONSIBLE CHARGE OF CONSTRUCTION SURVEY SHALL PHYSICALLY LOCATE AND DETERMINE CONDITIONS WHERE NEW CONSTRUCTION WILL MATCH EXISTING FEATURES. THE ENGINEER OR LAND SURVEYOR SHALL DETERMINE LOCATION AND ELEVATION OF SAID FEATURES AND COMPARE THIS INFORMATION TO CORRESPONDING INFORMATION IN THE CONTRACT DOCUMENTS. THIS REQUIREMENT APPLIES TO, BUT IS NOT LIMITED TO, EXISTING PAVEMENTS; SIDEWALKS AND DRIVES; SANITARY AND STORM SEWER STRUCTURES, INCLUDING FLOW LINES AND RIMS; TRAFFIC SIGNAL FACILITIES; WATER VALVES AND HYDRANTS; EXISTING UTILITY FIXTURES AND STRUCTURES; RAILROAD CROSSINGS, INCLUDING ASSOCIATED SIGNAL FACILITIES; AND BRIDGE ABUTMENTS.

D. AFTER LOCATING AND EXAMINING SURVEY CONTROL POINTS SHOWN IN CONTRACT DOCUMENTS, THE CONTRACTOR SHALL DO ONE OF THE FOLLOWING:
   1. IF SURVEY CONTROL POINTS ARE INTACT AND JUDGED SUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER STATING CONTROL POINTS ARE INTACT AND SUFFICIENT FOR CONSTRUCTION SURVEY TO THE JURISDICTIONAL PROJECT ENGINEER.
   2. IF SURVEY CONTROL POINTS ARE NOT INTACT, OR ARE JUDGED INSUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER DESCRIBING ISSUES WITH THE CONTROL POINTS TO THE JURISDICTIONAL PROJECT ENGINEER.

E. AFTER LOCATING AND DETERMINING CONDITIONS WHERE NEW CONSTRUCTION WILL MATCH EXISTING FEATURES, AND AFTER DETERMINING LOCATION AND ELEVATION OF SAID FEATURES AND COMPARING THIS INFORMATION TO CORRESPONDING INFORMATION IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL DO ONE OF THE FOLLOWING:
   1. IF ACCURACY OF LOCATIONS AND ELEVATIONS OF EXISTING FEATURES AS NOTED IN THE CONTRACT DOCUMENTS IS JUDGED SUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER STATING THE ACCURACY OF THE LOCATIONS AND ELEVATIONS OF EXISTING FEATURES TO THE JURISDICTIONAL PROJECT ENGINEER. IF APPLICABLE, THE NOTE MAY BE INCLUDED IN THE LETTER ADDRESSING ACCURACY OF SURVEY CONTROL POINTS.
   2. IF ACCURACY OF LOCATIONS AND ELEVATIONS OF EXISTING FEATURES AS NOTED IN THE CONTRACT DOCUMENTS IS JUDGED INSUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER, PLUS ANNOTATED EXCERPTS FROM THE CONTRACT DOCUMENTS DESCRIBING ISSUES TO THE JURISDICTIONAL PROJECT ENGINEER.

F. THE WORK SPECIFIED IN 1.03 D AND E IS REQUIRED PRIOR TO THE PRECONSTRUCTION MEETING. IF THIS WORK IS NOT COMPLETED AND LETTERS ARE NOT PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION MEETING, START OF CONSTRUCTION MAY BE DELAYED. THE PROJECT'S SCHEDULED START DATES AS SET FORTH IN THE CONTRACT DOCUMENTS SHALL REMAIN IN FORCE AND THE CONTRACTOR MAY BE CHARGED DAYS AT THE SOLE DISCRETION OF THE ENGINEER.

PROPERTY OWNER ACCESS NOTES

1. RESIDENTIAL AND COMMERCIAL DRIVEWAYS MAY BE NOT BE CLOSED FOR MORE THAN THREE DAYS FOR CONSTRUCTION OF DRIVEWAYS. CONTRACTOR SHALL COORDINATE WITH AFFECTED PROPERTY OWNERS PRIOR TO, DURING, AND AFTER CONSTRUCTION OF DRIVEWAYS.
2. CONSECUTIVE ACCESS POINTS SERVING THE SAME BUSINESS OR RESIDENCE SHALL NOT BE CLOSED CONCURRENTLY DURING STAGING OPERATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO COLLECT REFUSE FROM EACH PROPERTY OWNER'S STANDARD PICK-UP SITE AND DELIVER REFUSE TO A LOCATION DESIGNATED BY THE MUSCATINE SOLID WASTE DIVISION OR TO FACILITATE (PROVIDE ACCESS) FOR REFUSE PICK-UP AT ITS CURRENT LOCATION. THIS SHALL BE DESIGNATED FOR EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH MUSCATINE SOLID WASTE DIVISION AND PROPERTY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING TRASH, RECYCLING AND YARD WASTE COLLECTION FOR AREAS AFFECTED BY OR WHOSE ACCESS IS RESTRICTED BY CONSTRUCTION.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AND LABEL PROPERTY OWNER CARTS. CONTRACTOR MAY USE MASKING TAPE AND A PERMANENT MARKER TO LABEL CARTS TO ENSURE THE CARTS ARE NOT MISPLACED.
5. ON DAYS THE CONTRACTOR DOES NOT WORK, WEATHER DELAY OR HOLIDAY THAT THE MUSCATINE SOLID WASTE DIVISION WORK AND IT IS A COLLECTION DAY FOR THE CONSTRUCTION ZONE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING CARTS TO THEIR COLLECTION LOCATIONS.
6. THE CONTRACTOR SHALL COORDINATE OR MAKE ACCOMMODATIONS IN THE CONSTRUCTION AREA FOR MAIL AND PARCEL DELIVERY SERVICE, PARKING, DRIVEWAY AND EMERGENCY VEHICLE ACCESS.
7. NOTIFICATION (DOOR HANGERS) SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS AND RESIDENTS A MINIMUM OF ONE WEEK (BUT NOT MORE THAN TWO WEEKS) PRIOR TO COMMENCING CONSTRUCTION. WORK WILL NOT BEGIN UNLESS NOTIFICATION HAS BEEN PROVIDED IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. DOOR HANGERS SHALL INCLUDE THE FOLLOWING INFORMATION:
   - CONTRACTOR'S NAME AND EMERGENCY CONTACT NUMBERS
   - DESCRIPTION OF CONTRACTOR'S ACTIVITIES
   - DATE OF CONSTRUCTION ACTIVITIES IN THE AREA
   - ESTIMATED DURATION OF CONSTRUCTION ACTIVITIES IN THE AREA
   - DESCRIPTION/LOCATION OF AVAILABLE RESIDENTIAL PARKING
   - INFORMATION STATING HOW AND WHERE GARBAGE COLLECTION WILL BE MADE (NOTE: CONTRACTOR SHALL NOT REQUIRE/REQUEST RESIDENTS TO SET OUT GARBAGE AT LOCATIONS WHICH MAY CAUSE UNDUE HARDSHIPS)

EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT, AND ANY LOCAL ORDINANCES.
2. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION AND DUST POLLUTION WITHIN THE CONSTRUCTION LIMITS AND ANY OFF-SITE AREAS USED FOR THIS PROJECT.
3. TO THE EXTENT POSSIBLE, LEAVE EXISTING GRASS PARKWAY AREAS UNDISTURBED UNTIL NEW CURB LINES HAVE BEEN BACKFILLED.
4. IN CONJUNCTION WITH BACKFILLING NEW CURB LINES, GRADE PARKWAY AREAS, BETWEEN FRONT OF SIDEWALK AND BACK OF CURB, TO ESTABLISH POSITIVE DRAINAGE TO THE STREET. TAKE APPROPRIATE CARE TO PROTECT TREE ROOT SYSTEMS AND FIXED OBJECTS DURING THIS WORK.
5. DO NOT RESTRICT DRAINAGE CHANNELS AND PROTECT ALL EXISTING DRAINAGE STRUCTURES. THE CONTRACTOR IS FULLY LIABLE FOR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. EXTRA GRADING WORK NEEDED TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

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105-4

10-18-11

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
EC-204	04-18-17	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICES
LI-103	10-21-14	CONDUIT AND PRECAST HANDHOLES
MI-220	10-20-15	DETECTABLE WARNINGS AND PEDESTRIAN RAMP
PM-110	10-16-18	LINE TYPES
PM-111	04-21-15	SYMBOLS ANS LEGENDS
PM-240	04-21-15	RAILROAD CROSSING ON TWO-LANE ROADWAY
PM-550	10-15-19	TWO-LANE ROADWAY WITH TWO-WAY LEFT TURN LANE
PR-103	07-01-19	FULL DEPTH PCC PATCH WITH DOWELS
PR-201	10-21-14	RUNOUTS FOR RESURFACING
PR-202	10-21-14	NOTCHES FOR RESURFACING (WITH OR WITHOUT RUNOUT)
PV-101	04-21-20	JOINTS
PV-102	10-18-16	PCC CURB DETAILS
PV-103	04-19-11	MANHOLE BOXOUTS IN PCC PAVEMENT
PV-201	10-15-19	MANHOLE BOXOUTS IN HMA PAVEMENT AND HMA OVERLAYS
PV-202	04-16-13	HOT MIX ASPHALT RESURFACING
SI-101	04-19-16	LOCATIONS - TYPE 'A' SIGNS
SI-121	10-16-18	FABRICATION - SIGN LEGEND COMPONENTS
SI-131	10-18-16	INSTALLATION - TYPE 'A' SIGNS
SI-241	10-18-16	SIGN PLACEMENT APPROACHING A RAILROAD CROSSING
SI-881	04-16-19	SPECIAL SIGNS FOR WORKZONES
SI-882	10-18-16	SPECIAL SIGNS FOR RESTRICTED WIDTH TRAFFIC CONTROL ZONES
SW-101	04-17-18	TRENCH BEDDING AND BACKFILL ZONES
SW-301	04-17-18	CIRCULAR SANITARY SEWER MANHOLE
SW-306	04-21-15	CHIMNEY SEALS FOR SANITARY SEWER MANHOLES
SW-401	04-17-18	CIRCULAR STORM SEWER MANHOLE
SW-508	04-17-18	SINGLE OPEN-THROAT CURB INTAKE, LARGE BOX
SW-541	04-17-18	OPEN-THROAT CURB INTAKE UNDER PAVEMENT
SW-601	04-21-15	CASTINGS FOR SANITARY SEWER MANHOLES
SW-602	04-21-15	CASTINGS FOR STORM SEWER MANHOLES
TC-61	10-15-19	TWO-LANE, TWO-WAY OPERATION
TC-81	10-15-19	RESTRICTED WIDTH SIGNING (LESS THAN 14.5 FEET)
TC-202	04-21-15	WORK WITHIN 15FT OF TRAVELED WAY
TC-212	04-21-20	SPOT LOCATION LANE CLOSURE WITH FLAGGERS
TC-228	10-16-18	LANE CLOSURE INVOLVING TWLTL
TC-233	10-17-17	PAVEMENT MARKING OPERATIONS TWO-LANE
TC-282	10-15-19	UNEVEN LANES
TC-402	04-21-15	WORK WITHIN 15FT OF TRAVELED WAY
TC-419	10-16-18	LANE CLOSURE ON UNDIVIDED HIGHWAY
TC-423	04-16-19	CLOSURE OF TWO ADJACENT LANES ON UNDIVIDED HIGHWAY
TC-433	10-17-17	PAVEMENT MARKING OPERATIONS
TC-482	10-15-19	UNEVEN LANES
TC-601	10-15-19	PEDESTRIAN DETOUR
TC-602	10-15-19	SIDEWALK DIVERSION
TS-102	04-16-19	TRAFFIC SIGNAL POLE FOUNDATION
8010.105		MAST ARM PLE DETAILS
8010.106		PEDESTAL POLE AND PEDESTRIAN POST DETAILS

100-1D

10-18-05

PROJECT DESCRIPTION

ROADWAY REHABILITATION AND CONVERSION FROM 4 LANES TO 3 LANES; INCLUDING TRAFFIC SIGNAL MODIFICAITONS, ADA CURB RAMPS, DRAINAGE IMPROVEMENTS.

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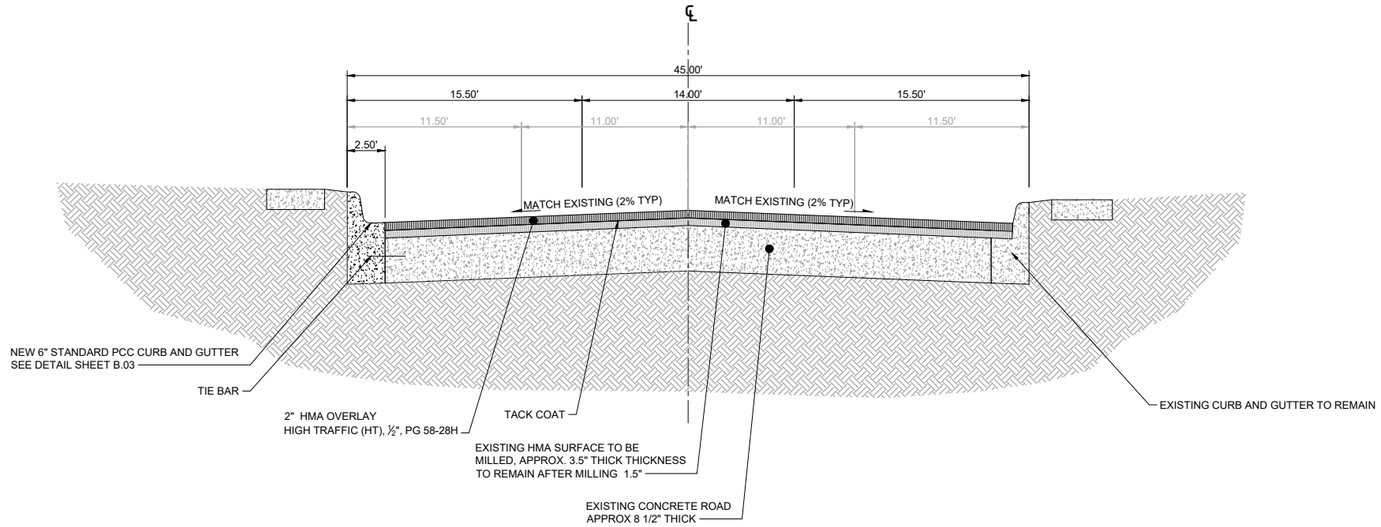

PARK AVENUE
STA 30+59.63 - 197+54.66

100-25

04-21-15

HMA PAVEMENT

Calculations assume a surface course unit weight (lbs/cf) of 145.

Location				Mainline			Bid Items			Remarks
							Hot Mix Asphalt Pavement	Binder		
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	Surface	Surface	Pavement Scarification	
				FT	FT	SY	TONS	TONS	SY	
2nd Street	Both	30+59.63	50+72.40	49.28	2012.77	11021.03	1198.5	71.9	11021.0	INCLUDES AREA FOR SIDE STREET PAVING
Park Avenue	Both	50+80.90	71+47.95	45.47	2067.05	10443.20	1135.7	68.1	10443.2	INCLUDES AREA FOR SIDE STREET PAVING
Park Avenue	Both	171+47.95	197+54.66	40.76	2606.71	11805.50	1283.8	77.0	11805.5	INCLUDES AREA FOR SIDE STREET PAVING
Washington Street	Both	652+56.80	654+56.80	40.00	200.00	888.89	96.7	5.8	888.9	
Total							3618.1	217.1	33269.7	

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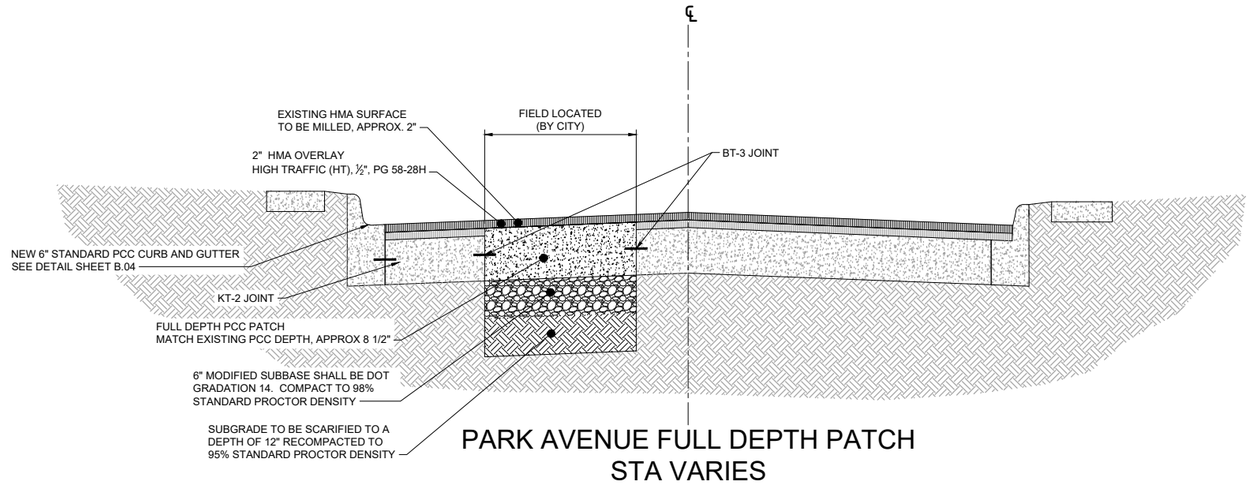
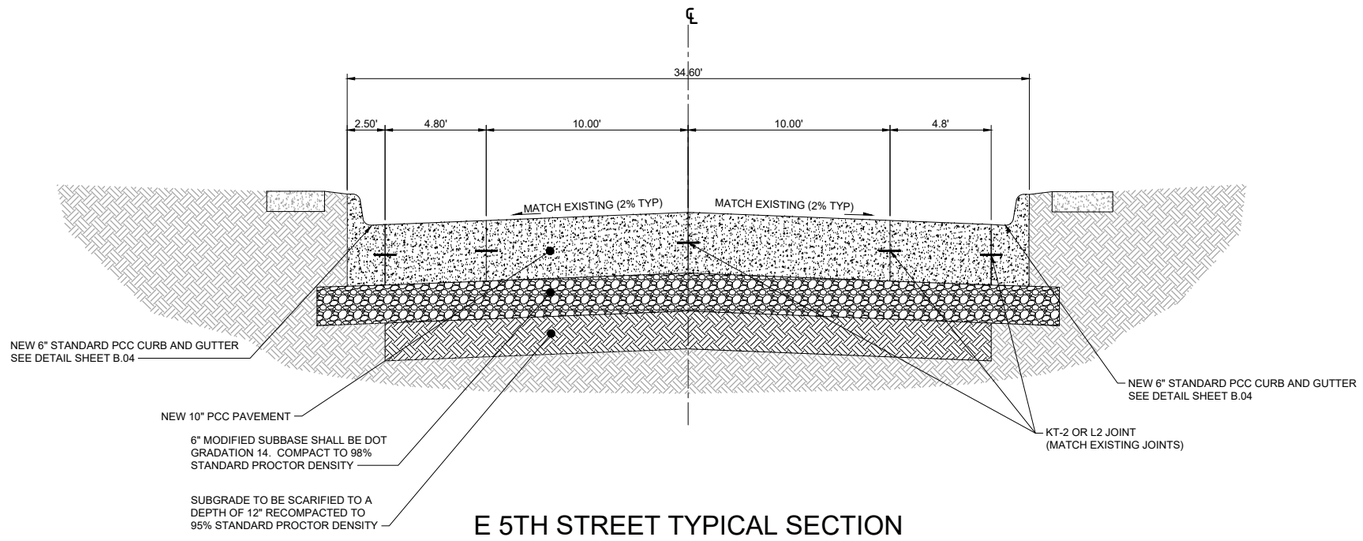


NOTE: CONTRACTOR TO PATCH EXISTING PCC PAVEMENT PRIOR TO MILLING OFF EXISTING PAVEMENT. CONTRACTOR MAY ELECT TO MILL PRIOR TO COMPLETING FULL DEPTH PATCHES WITH APPROVAL FROM THE CITY OF MUSCATINE OR THE ENGINEER.

PARK AVENUE FULL DEPTH PATCH
STA VARIES



E 5TH STREET TYPICAL SECTION
STA 54+95.71 - 55+82.71

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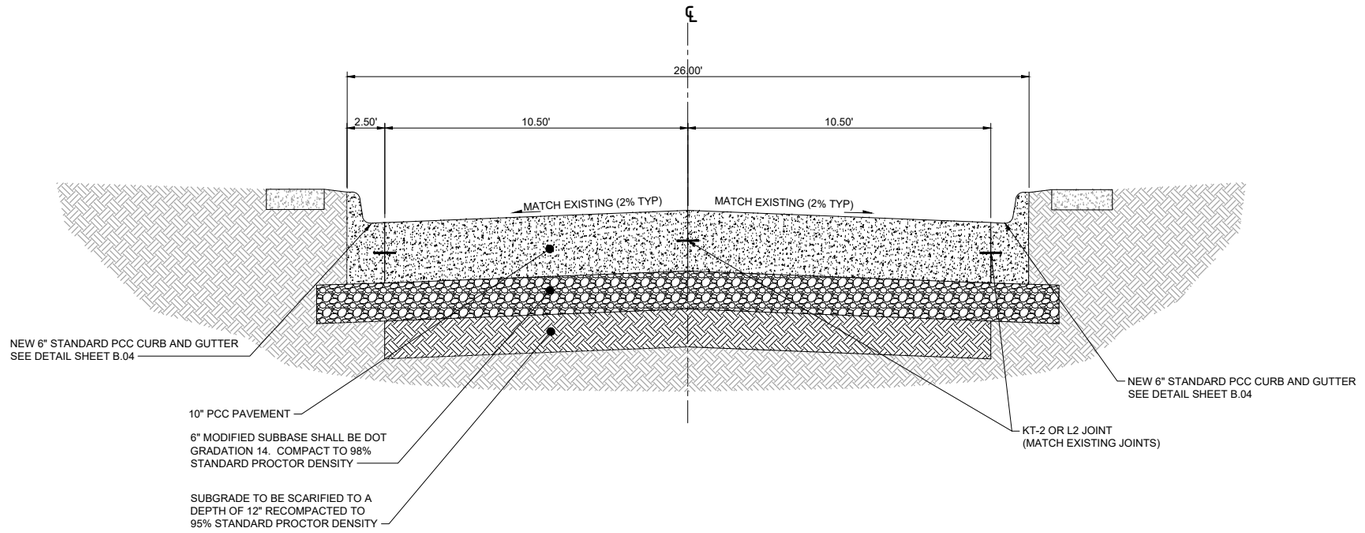
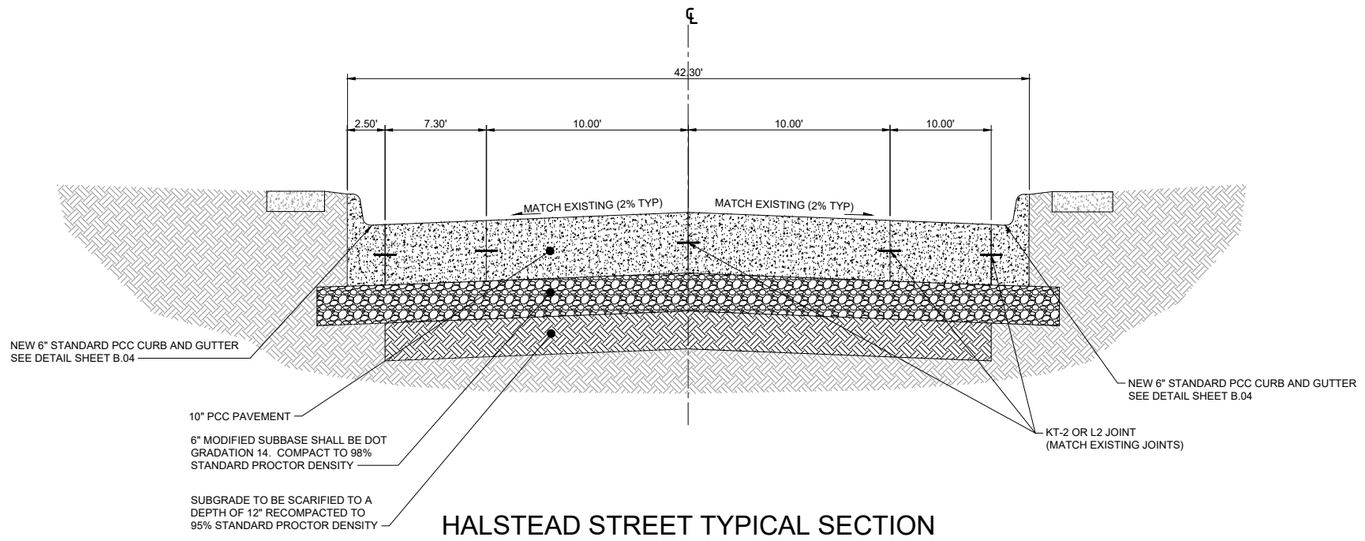


MAGNOLIA STREET TYPICAL SECTION
STA 61.59.46 - 62+38.11



HALSTEAD STREET TYPICAL SECTION
STA 66+31.37 - 67+11.73

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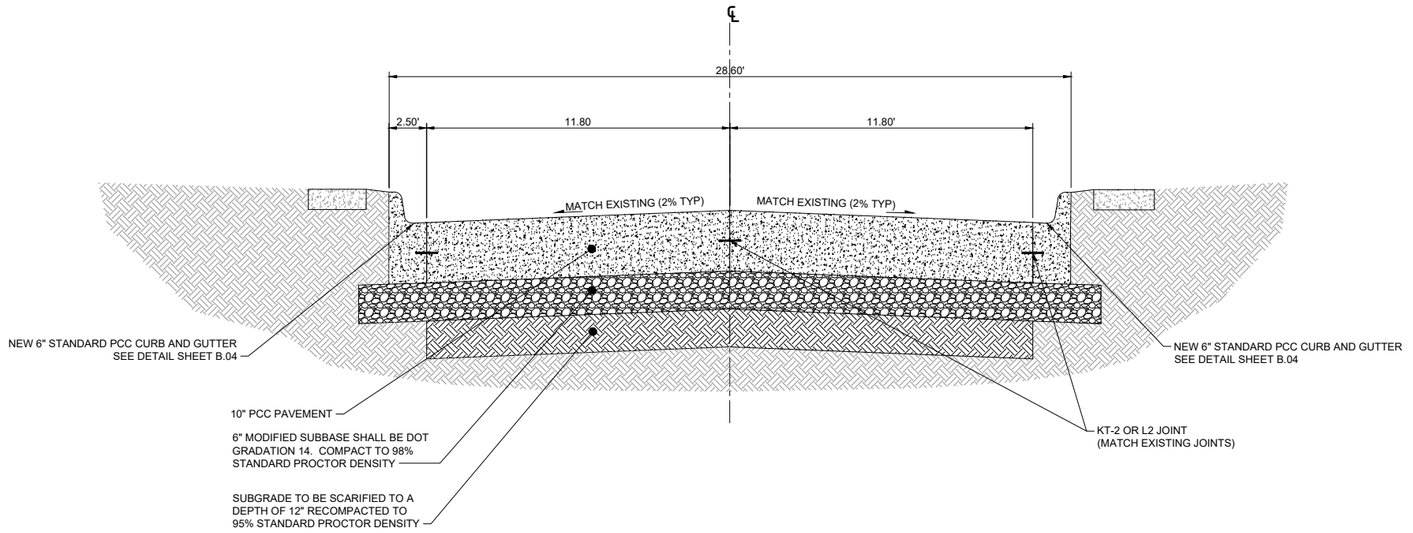
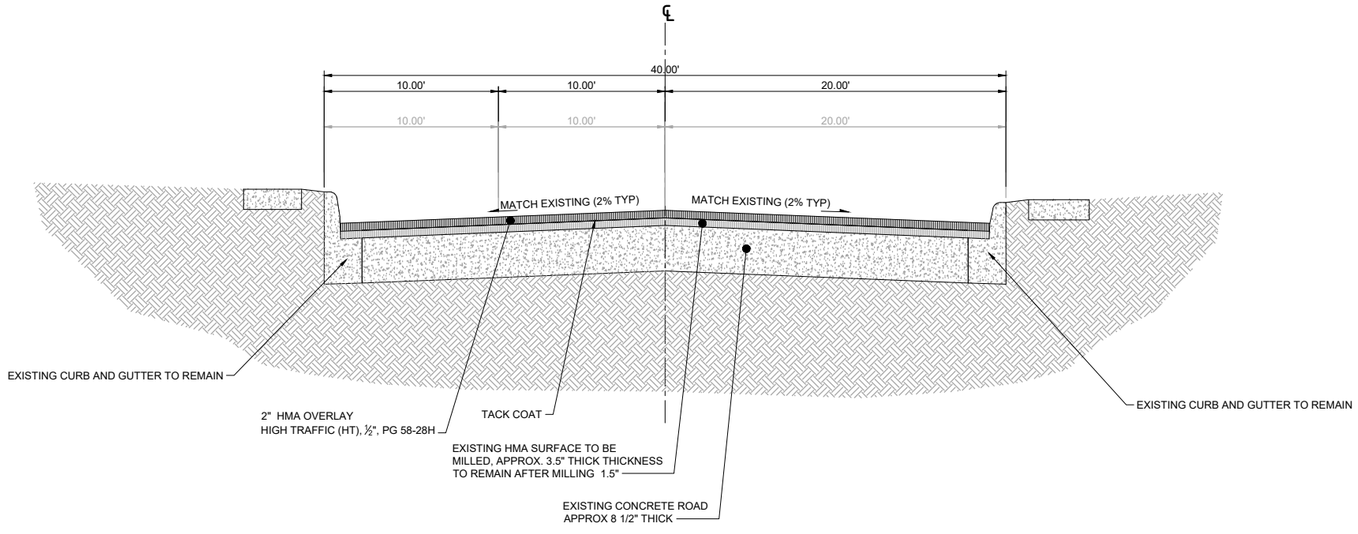


WASHINGTON STREET TYPICAL SECTION
STA 71+24.94 - 172+17.56



WASHINGTON STREET TYPICAL SECTION
STA 652+56.80 - 654+56.80

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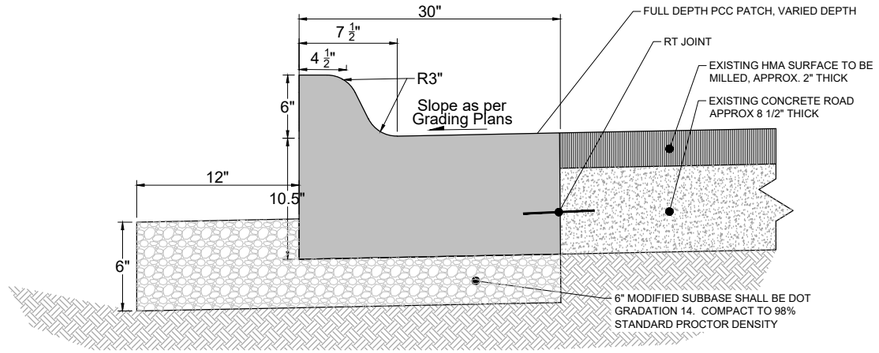
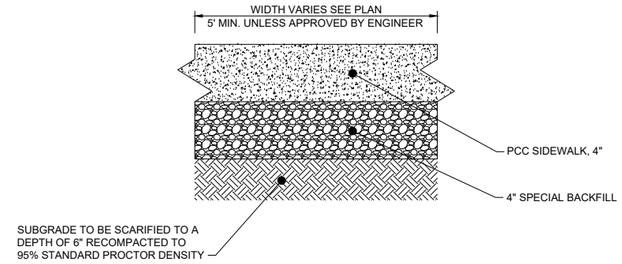
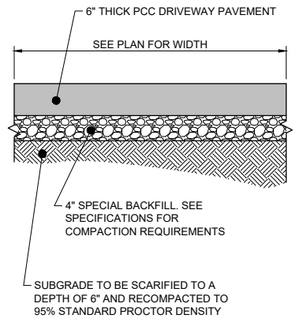


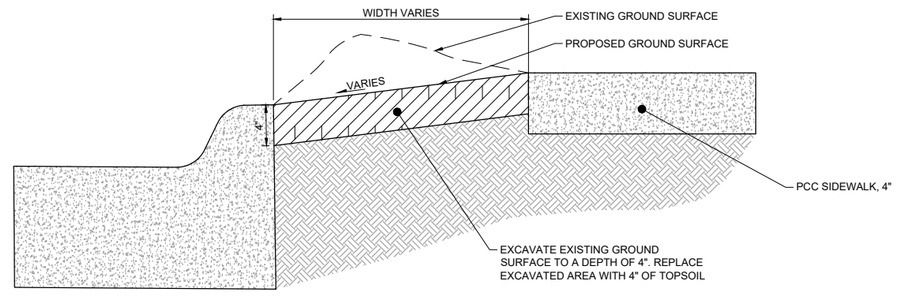
STANDARD 6" PCC CURB AND GUTTER TYPICAL SECTION



PCC SIDEWALK SECTION



6" PCC DRIVEWAY PAVEMENT



TYPICAL CLASS 10 EXCAVATION SECTION

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ESTIMATED PROJECT QUANTITIES

Project	STPN-038-1(15)--2J-70 Division 1: (3R)
Project	STPN-038-1(15)--2J-70 Division 2: CS-TSF-5330(628)--85-70 (TSIP)
Project	STPN-038-1(15)--2J-70 Division 3: MUSCATINE POWER AND WATER
Project	STPN-038-1(15)--2J-70 Division 4: LOCAL FUNDS CITY OF MUSCATINE
Project	UST-038-1(17)--4A-70 (USTEP)
Project	STPN-038-1(16)--2J-70 (ADA)

This Data Entry Sheet fills Tab 100-1C effective 04-17-12

Item No.	Item Code	Item	Unit	Quantities													
				Estimated							As Built						
				Division 1	Division 2	Division 3	Division 4	TOTAL PROJECT STPN-038-1(15) --2J-70	UST-038-1(17) --4A-70	STPN-038-1(16) --2J-70	Division 1	Division 2	Division 3	Division 4	UST-038-1(17) --4A-70	STPN-038-1(16) --2J-70
0010	2102-0425071	SPECIAL BACKFILL	CY					0.0	9.1	219.8						
0020	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE	CY	50				50.0								
0030	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	613.7				613.7								
0040	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	438.4				438.4								
0050	2115-0100000	MODIFIED SUBBASE	CY	159.4				159.4								
0060	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	570.5				570.5								
0070	2213-6745500	REMOVAL OF CURB	STA					0.0		29.7						
0080	2213-7100400	RELOCATION OF MAILBOXES	EACH				2.0	2.0								
0090	2214-5145150	PAVEMENT SCARIFICATION	SY	34158.6				34158.6								
0100	2301-1033080	STD OR S/F PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY	863.9				863.9								
0110	2303-1043503	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3	TON	3714.7				3714.7								
0120	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	222.9				222.9								
0130	2304-0101000	TEMPORARY PAVEMENT	SY	570.5				570.5								
0140	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH				3.0	3.0								
0150	2435-0254104	INTAKE, SW-541, TOP ONLY	EACH					0.0	24.0							
0160	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	56.0				56.0								
0170	2435-0600120	INTAKE ADJUSTMENT, MAJOR	EACH					0.0	11.0							
0180	2510-6745850	REMOVAL OF PAVEMENT	SY	869.8				869.8								
0190	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH				3.0	3.0								
0200	2511-6745900	REMOVAL OF SIDEWALK	SY					0.0		1814.3						
0210	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY					0.0		1190.1						
0220	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY					0.0		850.9						
0230	2511-7528101	DETECTABLE WARNINGS	SF					0.0		1188.0						
0240	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT	LF	1437.2				1437.2		1500.0						
0250	2512-1859000	CURB, SPECIAL, AS PER PLAN	LF					0.0		533.0						
0260	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY					0.0	55.0							
0270	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	123.5				123.5								
0280	2518-6910000	SAFETY CLOSURE	EACH	159.0				159.0								
0290	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	492.0				492.0								
0300	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH	44.0				44.0								
0310	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	503.0				503.0								
0320	2525-0000100	TRAFFIC SIGNALIZATION, E 2ND ST AND HWY 92	LS		0.5	0.5		1.0								
0330	2525-0000100	TRAFFIC SIGNALIZATION, PARK AVE AND COLORADO ST	LS		0.5	0.5		1.0								
0340	2525-0000100	TRAFFIC SIGNALIZATION, PARK AVE AND E 5TH ST	LS		0.5	0.5		1.0								
0350	2525-0000100	TRAFFIC SIGNALIZATION, PARK AVE AND WASHINGTON ST	LS		0.5	0.5		1.0								
0360	2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION	LS		0.5	0.5		1.0								
0370	2526-8285000	CONSTRUCTION SURVEY	LS					0.0	1.0	1.0						
0380	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA		316.2			316.2								
0390	2527-9263118	PAINTED PAVEMENT MARKINGS, TEMPORARY	STA		256.0			256.0								
0400	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH		68.0			68.0								
0410	2527-9263180	PAVEMENT MARKINGS REMOVED	STA		138.0			138.0								
0420	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH		5.0			5.0								
0430	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA		316.2			316.2								
0440	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH		68.0			68.0								
0450	2528-8445110	TRAFFIC CONTROL	LS	0.5	0.5			1.0	1.0	1.0						
0460	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY					0.0	42.0							
0470	2533-4980005	MOBILIZATION	LS	0.5	0.5			1.0	1.0	1.0						
0480	2554-0212020	VALVE BOX EXTENSION	EACH	49.0				49.0								
0490	2599-9999003	FOUNDATION EXCAVATION IN SOIL	CY		12.0	13.0		25.0								
0500	2599-9999010	CONCRETE WASHOUT	LS					0.0		1.0						
0510	2599-9999014	SPECIALTY SIGNS USED DURING CONSTRUCTION	SF					0.0	250.0							
0520	2601-2634110	MULCHING, MECHANICALLY-BONDED FIBER MATRIX	ACRE	0.8				0.8								
0530	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	1.6				1.6								
0540	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	7462.0				7462.0								
0550	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	7462.0				7462.0								
0560	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER	LF	372.0				372.0								
0570	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	42.0				42.0								
0580	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	42.0				42.0								
0590	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	1.0				1.0								
0600	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	1.0				1.0								
0610	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	1.0				1.0								
0620	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	20.0				20.0								

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ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
0010	2102-0425071	SPECIAL BACKFILL SEE B-SHEETS FOR DETAILS AND D-SHEETS FOR LOCATIONS. SEE TABULATION ON C.09 TO BE PLACED UNDER ALL NEW SIDEWALK AND RAMPS AND DRIVEWAYS.
0020	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE CONTINGENCY BID ITEM FOR REMOVAL OF UNSUITALBE SOIL IN FULL DEPTH PATCH AND PAVEMENT AREAS. EXCAVATION DEPTH WHEN USED WILL BE AN ADDITIONAL 12". LOCATIONS TO BE DETERMINED BY ENGINEER AS NEEDED.
0030	2102-2710090	EXCAVATION, CLASS 10, WASTE FOR AREA BETWEEN THE BACK OF CURB AND SIDEWALK, CONTRACTOR TO REMOVE GRASS AND SOIL TO A DEPTH 4" BELOW STRAIGHT LINE GRADE BETWEEN BACK OF CURB AND SIDEWALK. SEE RR SHEETS FOR LOCATIONS. SEE DETAIL ON SHEET B.04. SEE TABULATION ON C.05 AND C.06
0040	2105-8425005	TOPSOIL, FURNISH AND SPREAD TOPSOIL TO BE PLACED BETWEEN BACK OF CURB AND SIDEWALK TO MAKE A STRAIGHT LINE GRADE BETWEEN BACK OF CURB AND SIDEWALK. NOMINAL DEPTH TO BE 4" CONTRACTOR TO SUBMIT SOURCE TO CITY FOR APPROVAL PRIOR TO PROCURING. SEE RR SHEETS FOR LOCATIONS. SEE TABULATION ON C.05 AND C.06
0050	2115-0100000	MODIFIED SUBBASE SEE B-SHEETS FOR DETAILS AND D-SHEETS FOR LOCATIONS. SEE TABULATIONS ON C.07
0060	2212-5070310	PATCHES, FULL-DEPTH REPAIR INCLUDES DOUBLE FULL-DEPTH SAWCUTTING OF EXISTING PAVEMENT (PER CITY OF MUSCATINE STANDARDS). SEE B-SHEETS FOR DETAILS AND D-SHEETS LOCATIONS. TOP OF CONCRETE TO BE SET 2" BELOW EXISTING SURFACE. PLACE TEMPORARY HMA PAVEMENT ON TOP OF PATCH PER BID ITEM 0130. SEE TABULATION ON C.07.
0070	2213-6745500	REMOVAL OF CURB INCLUDES DOUBLE FULL-DEPTH SAWCUTTING OF EXISTING PAVEMENT (PER CITY OF MUSCATINE STANDARDS), SAWCUT LOCATION TO BE 2.5' FROM THE EXISTING BACK OF CURB. SAWCUT AROUND CORNERS MAY BE SQUARED OFF PROVIDING THAT THE DISTANCE BETWEEN BACK OF CURB AND SAWCUT LINE IS NOT LESS THAN 2.5' SEE R-SHEETS FOR LOCATIONS. SEE TABULATION ON C.04
0080	2213-7100400	RELOCATION OF MAILBOXES CONTINGENCY BID ITEM FOR MAILBOXES IMPACTED BY CONSTRUCTION SHALL BE RELOCATED AND INSTALLED PER IOWA DOT SPECIFICATIONS AND COMPLY WITH USPS REQUIREMENTS. LOCATIONS TO BE DETERMINED BY ENGINEER AS NEEDED.
0090	2214-5145150	PAVEMENT SCARIFICATION REMOVE TOP 2" ASPHALT SURFACE ON 2ND STREET AND PARK AVENUE. DEPTH OF EXISTING ASPHALT FROM 2003 OVERLAY PLANS IS 3.5" INCLUDES MILLING OF PCC AT SIDE STREETS, MILL A 2" HEADDER AT LOCATION SHOWN ON PLANS. TABULATION FOR NOTCHES IS LOCATED ON SHEET C.07. SEE R-SHEETS FOR LOCATIONS. SEE TABULATION ON B.01
0100	2301-1033080	STD OR S/F PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN. CERTIFIED PLANT INSPECTION SHALL BE INCLUDED IN THIS ITEM. TIME FOR OPENING PAVEMENT FOR USE IS DETERMINED BY MATURITY METHOD COMPLYING WITH MATERIALS I.M. 383. CORES AND PROFILOGRAPH NOT REQUIRED ON THIS CONTRACT. SEE D-SHEETS FOR LOCATIONS. SEE B-SHEETS FOR TYPICAL SECTIONS. SEE TABULATION ON C.07
0110	2303-1043503	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3 CERTIFIED PLANT INSPECTION SHALL BE INCLUDED IN THIS ITEM. HOT BOX NOT REQUIRED ON THIS CONTRACT. NO PAVEMENT CORES OR PROFILOGRAPH ON THIS CONTRACT. SEE B AND D-SHEETS FOR LOCATIONS. SEE TABULATION ON B.01. INCLUDES 5% CONTINGENCY
0120	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC SEE TABULATION ON B.01. INCLUDES 5% CONTINGENCY
0130	2304-0101000	TEMPORARY PAVEMENT TEMPORARY PAVEMENT TO BE HMA OPTION. USE 1/2" MIXTURE WITH PG 64-22 BINDER. SEE D-SHEETS FOR LOCATIONS. SEE TABULATION ON C.07
0140	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN. SEE TABULATION ON SHEET C.10 SEE D-SHEETS FOR LOCATIONS. CONTRACTOR TO VERIFY FLOWLINES OF EXISTING PIPES COMING INTO MANHOLES PRIOR TO ORDERING NEW MANHOLES. REPLACE PIPE THAT IS REMOVED TO INSTALL NEW MANHOLE IS INCICDENTAL TO STRUCTURE.
0150	2435-0254104	INTAKE, SW-541, TOP ONLY SW-541 INTAKE TOPS SHALL BE REPLACED AND SET AT NEW PAVEMENT ELEVATION WITH NEW FORM GRADE FIELD VERIFIED. CURB OPENING SHALL BE FULL HEIGHT TO MATCH INTO 6" HIGH CURB. INCLUDES NEW BOXOUT. SEE TABULATION ON SHEET C.09. SEE D-SHEETS FOR LOCATIONS
0160	2435-0600010	MANHOLE ADJUSTMENT, MINOR ALL MANHOLES NOT BEING REPLACED SHALL HAVE NEW FRAME AND LID SET AT NEW PAVEMENT ELEVATION. INCLUDES BOXOUT PER STANDARD PLAN PV-201. ANY SAWCUTTING REQUIRED TO ADJUST MANHOLE IS INCIDENTAL. UMAR ADJUSTING RINGS ARE NOT ALLOWED ON THIS PROJECT. SEE TABULATION ON SHEET C.10. SEE D AND E-SHEETS FOR DETAILS.
0170	2435-0600120	INTAKE ADJUSTMENT, MAJOR ALL OPEN THROAT INTAKES TO BE ADJUSTED TO NEW PAVEMENT ELEVATION, STYLES AS SHOWN IN TABULATION SHALL HAVE THROAT RECONSTRUCTED AT NEW FORM GRADE WITH A TOP RAISED SO THAT OPENING MATCHES FULL HEIGHT CURB. INCLUDES BOXOUT PER INTAKE STANDARD PLAN. ANY SAWCUTTING REQUIRED TO ADJUST INTAKE IS INCIDENTAL. SEE TABULATION ON SHEET C.09. SEE D AND E-SHEETS FOR DETAILS.
0180	2510-6745850	REMOVAL OF PAVEMENT QUANTITY INCLUDES REMOVAL AND DISPOSAL OF ALL CONCRETE AND ASPHALT ROADWAY PAVEMENT. DOUBLE FULL DEPTH SAWCUTTING (PER CITY OF MUSCATINE STANDARDS) IS INCIDENTAL AND REQUIRED PRIOR TO REMOVAL OF PAVEMENT ADJACENT TO EXISTING PAVEMENT. REFER TO PAVEMENT REMOVAL TABULATION ON SHEET C.04 (PAVEMENT DEPTHS SHOWN ARE APPROXIMATE, NO ADDITIONAL COMPENSATION WILL BE MADE FOR ACTUAL DEPTHS THAT EXCEED WHAT IS SHOWN) FOR QUANTITIES AND DESCRIPTIONS. SEE R-SHEETS FOR REMOVAL LIMITS.
0190	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES SEE TABULATION ON SHEET C.04 SEE R-SHEETS FOR LOCATIONS. INCLUDES REMOVAL OF PIPE NECESSARY TO REMOVE AND INSTALL NEW STRUCTURE. BY-PASS PUMPING IF REQUIRED IS INCIDENTAL TO THIS BID ITEM.
0200	2511-6745900	REMOVAL OF SIDEWALK QUANTITY INCLUDES REMOVAL AND DISPOSAL OF ALL CONCRETE SIDEWALK. FULL DEPTH SAWCUTTING IS INCIDENTAL AND REQUIRED PRIOR TO REMOVAL OF SIDEWALK. REMOVE SIDEWALK TO NEAREST JOINT. REFER TO SIDEWALK REMOVAL TABULATION ON SHEET C.04 (PAVEMENT DEPTHS SHOWN ARE APPROXIMATE, NO ADDITIONAL COMPENSATION WILL BE MADE FOR ACTUAL DEPTHS THAT EXCEED WHAT IS SHOWN) FOR QUANTITIES AND DESCRIPTIONS. SEE R-SHEETS FOR REMOVAL LIMITS.
0210	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN. SEE TABULATION ON SHEET C.09. SEE D AND S-SHEETS FOR DETAILS. PLACE EXPANSION MATERIAL BETWEEN SIDEWALK RAMP AND BACK OF CURB. CONTRACTOR SHALL FILL OUT AND INITIAL SIDWALK COMPLIANCE SHEETS AND SUBMIT TO THE CITY. INCLUDES STAKING OF SIDEWALK RAMPS WHERE REQUIRED.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
0220	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN. SEE TABULATION ON SHEET C.09. SEE D AND S-SHEETS FOR DETAILS. PLACE EXPANSION MATERIAL BETWEEN SIDEWALK RAMP AND BACK OF CURB. CONTRACTOR SHALL FILL OUT AND INITIAL SIDWALK COMPLIANCE SHEETS AND SUBMIT TO THE CITY. INCLUDES STAKING OF SIDEWALK RAMPS WHERE REQUIRED.
0230	2511-7528101	DETECTABLE WARNINGS DETECTABLE WARNINGS SHALL BE FIBER GLASS AND COLORED RED. SEE S-SHEETS FOR LOCATIONS. SEE TABULATION ON C.09
0240	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT CURB AND GUTTER THAT IS REPLACED SHALL BE 6" HIGH CURB. TRANSITION BETWEEN 6" CURB AND EXISTING CURB WITHIN THE LAST 12" OF NEW CURB PLACED. INCLUDES CURB CUTS FOR NEW SIDEWALK RAMPS. SEE TABULATION ON SHEET C.08. SEE D AND S-SHEETS FOR LOCATIONS. SEE B.04 FOR DETAIL.
0250	2512-1859000	CURB, SPECIAL, AS PER PLAN CURB SHALL BE BEAM CURB AS PER STANDARD PLAN PV-102 AGAINST SIDEWALK WHERE NEEDED FOR GRADE CHANGES OR VARIABLE HEIGHT INTEGRAL CURB PER DETAIL ON SHEET S.47. SEE S-SHEETS FOR LOCATIONS. SEE TABULATION ON SHEET C.08
0260	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN. ITEM INCLUDES PCC ROADWAY AND DRIVEWAY PAVING OUTSIDE THE MAINLINE PAVING AS SHOWN ON THE D-SHEETS. PAVEMENT SHALL BE C-MIX, AND INCLUDES EXPANSION MATERIAL BETWEEN MAINLINE PAVING AND DRIVEWAY. CERTIFIED PLANT INSPECTION SHALL BE INCLUDED IN THIS ITEM. TIME FOR OPENING PAVEMENT FOR USE IS DETERMINED BY MATURITY METHOD COMPLYING WITH MATERIALS I.M. 383. SEE TABULATION ON C.07. SEE B.04 FOR DETAIL.
0270	2515-6745600	REMOVAL OF PAVED DRIVEWAY QUANTITY INCLUDES REMOVAL AND DISPOSAL OF ALL DRIVEWAY PAVEMENT. FULL DEPTH SAWCUTTING IS INCIDENTAL AND REQUIRED PRIOR TO REMOVAL OF PAVEMENT ADJACENT TO EXISTING PAVEMENT. REFER TO REMOVAL OF PAVED DRIVEWAY TABULATION ON C.04 (PAVEMENT DEPTHS SHOWN ARE APPROXIMATE) FOR QUANTITIES AND DESCRIPTIONS. SEE R-SHEETS FOR REMOVAL LIMITS.
0280	2518-6910000	SAFETY CLOSURE SAFETY CLOSURE TO BE PLACED PER IOWA DOT STANDARD PLAN. REFER TO J-SHEETS FOR TRAFFIC CONTROL AND STAGING, AND TABULATION ON J.38.
0290	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS SEE TABULATION ON N.14. SEE N-SHEETS FOR LOCATIONS.
0300	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION. SEE TABULATION ON SHEET N.14. SEE N-SHEETS FOR LOCATIONS.
0310	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. SEE TABULATION ON SHEET N.14 SEE N-SHEETS FOR LOCATIONS. SEE N.23 FOR D3-1 SIZES.
0320	2525-0000100	TRAFFIC SIGNALIZATION, E 2ND ST AND HWY 92 REFER TO N.01 AND N.02 TO N.03 FOR LOCATIONS AND DETAILS. COORDINATE ALL PERMANENT SIGNAL INSTALLATION AND REMOVAL WITH MUSCATINE POWER AND WATER AND THE CITY OF MUSCATINE. SEE SPECIAL TRAFFIC SIGNAL INSTALLATION. CONTRACTOR TO LAY OUT ADJACENT CURB LINES PRIOR TO SIGNAL FOUNDATION PROVISONS FOR INSTALLATION. REFER TO STANDARD DETAIL TS-102 FOR TRAFFIC SIGNAL FOUNDATION DETAILS.
0330	2525-0000100	TRAFFIC SIGNALIZATION, PARK AVE AND COLORADO ST REFER TO N.01 AND N.08 TO N.09 FOR LOCATIONS AND DETAILS. COORDINATE ALL PERMANENT SIGNAL INSTALLATION AND REMOVAL WITH MUSCATINE POWER AND WATER AND THE CITY OF MUSCATINE. SEE SPECIAL TRAFFIC SIGNAL INSTALLATION. CONTRACTOR TO LAY OUT ADJACENT CURB LINES PRIOR TO SIGNAL FOUNDATION PROVISONS FOR INSTALLATION. REFER TO STANDARD DETAIL TS-102 FOR TRAFFIC SIGNAL FOUNDATION DETAILS.
0340	2525-0000100	TRAFFIC SIGNALIZATION, PARK AVE AND E 5TH ST REFER TO N.01 AND N.04 TO N.05 FOR LOCATIONS AND DETAILS. COORDINATE ALL PERMANENT SIGNAL INSTALLATION AND REMOVAL WITH MUSCATINE POWER AND WATER AND THE CITY OF MUSCATINE. SEE SPECIAL TRAFFIC SIGNAL INSTALLATION. CONTRACTOR TO LAY OUT ADJACENT CURB LINES PRIOR TO SIGNAL FOUNDATION PROVISONS FOR INSTALLATION. REFER TO STANDARD DETAIL TS-102 FOR TRAFFIC SIGNAL FOUNDATION DETAILS.
0350	2525-0000100	TRAFFIC SIGNALIZATION, PARK AVE AND WASHINGTON ST REFER TO N.01 AND N.06 TO N.07 FOR LOCATIONS AND DETAILS. COORDINATE ALL PERMANENT SIGNAL INSTALLATION AND REMOVAL WITH MUSCATINE POWER AND WATER AND THE CITY OF MUSCATINE. SEE SPECIAL TRAFFIC SIGNAL INSTALLATION. CONTRACTOR TO LAY OUT ADJACENT CURB LINES PRIOR TO SIGNAL FOUNDATION PROVISONS FOR INSTALLATION. REFER TO STANDARD DETAIL TS-102 FOR TRAFFIC SIGNAL FOUNDATION DETAILS.
0360	2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION REFER TO N-SHEETS FOR LOCATIONS AND DETAILS. COORDINATE ALL PERMANENT SIGNAL INSTALLATION AND REMOVALS WITH MUSCATINE POWER AND WATER AND THE CITY OF MUSCATINE. ALL FOUNDATIONS SHALL BE REMOVED TO A DEPTH 36" BELOW PROPOSED GRADE.
0370	2526-8285000	CONSTRUCTION SURVEY INCLUDES ALL COST ASSOCIATED WITH ESTABLISHING CONTROL AND PROVIDING CONSTRUCTION CREWS WITH INFORMATION REQUIRED TO CONSTRUCT PROJECT AS SHOWN IN THE PLANS. THIS BID ITEM SHALL INCLUDE ALL MONUMENT PRESERVATION ACTIVITIES AS DESCRIBED ON SHEET A.04. CONTRACTOR TO RECORD ALL CORNERS OF NEW PAVEMENT, SIDEWALK, AND PATCHES IN GIS FORMAT AND PROVIDE TO CITY FOR A RECORD OF WHAT WAS INSTALLED WITH PROJECT. PRESERVATION OF MONUMENTS IS INCLUDED IN THIS BID ITEM PER SPECIFICATION 2526.03 A. NONE OF THESE WILL BE PROVIDED BY THE CONTRACTING AUTHORITY. SIDEWALK RAMPS SHALL BE STAKED AS REQUIRED IN S-SHEETS
0380	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE REFER TO N-SHEETS FOR PAVEMENT MARKING LAYOUT AND STANDARD ROAD PLAN PM-110. SEE TABULATION ON SHEET N.10 AND N.11
0390	2527-9263118	PAINTED PAVEMENT MARKINGS, TEMPORARY TEMPORARY PAVEMENT MARKINGS TO LAY OUT LANES IN TEMPORARY CONFIGURATION DURING TRAFFIC CONTROL SEE J-SHEETS AND IOWA DOT TRAFFIC CONTROL STANDARD PLANS. MARKING TAPE SHALL NOT BE USED FOR TEMPORARY PAVEMENT MARKINGS. PAVEMENT MARKING TYPE SHALL BE WATERBORN. SEE TABULATION ON SHEET J.36 AND J.37
0400	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE REFER TO N-SHEETS FOR PAVEMENT MARKING LAYOUT AND STANDARD ROAD PLAN PM-111. SEE TABULATION ON SHEET N.12 AND N.13
0410	2527-9263180	PAVEMENT MARKINGS REMOVED EXISTING PAVEMENT MARKINGS TO BE REMOVED PRIOR TO PLACING TEMPORARY PAVEMENT MARKINGS ON EXISING PAVEMENT. PRIOR TO OPENING ROAD AND PLACING PERMANENT PAVEMENT MARKINGS ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED. REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON NEW ASPHALT SURFACE SHALL BE OF METHOD THAT WILL NOT LEAVE SCARS ON PAVEMENT WHERE TEMPORARY PAVEMENT MARKINGS WERE LOCATED. SEE TABULATION ON SHEET J.36
0420	2527-9263190	SYMBOLS AND LEGENDS REMOVED FOR REMOVAL OF EXISTING SYMBOLS AND LEGENDS PRIOR TO SETTING UP TRAFFIC CONTROL AND TEMPORARY LANE CONFIGURATION. SEE TABULATION ON SHEET J.36
0430	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS SEE TABULATION ON SHEET N.10 AND N.11. SEE N-SHEETS FOR LOCATIONS.

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ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
0440	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS SEE TABULATION ON SHEET N.12 AND N.13. SEE N-SHEETS FOR LOCATIONS.
0450	2528-8445110	TRAFFIC CONTROL REFER TO J-SHEETS FOR TRAFFIC CONTROL STAGING AND NOTES. ALL TRAFFIC CONTROL STAGING SIGNS ARE INCIDENTAL TO THIS BID ITEM.
0460	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS) FOR A MINIMUM PERIOD OF THREE (3) DAYS PRIOR TO IMPLEMENTATION OR CHANGE IN TRAFFIC CONTROL PDMS SIGN(S) SHALL BE PLACED AND MAINTAINED AS SHOWN IN THE J-SHEETS WITH MESSAGE WARNING DRIVERS THAT TRAFFIC PATTERNS OR CONTROL IS CHANGING ON THE PROJECT. CITY OF MUSCATINE ENGINEERING STAFF TO APPROVE MESSAGE ON SIGN PRIOR TO DEPLOYMENT IN THE FIELD.
0470	2533-4980005	MOBILIZATION ITEM INCLUDES THE MOVEMENT OF PERSONNEL, EQUIPMENT AND SUPPLIES TO THE PROJECT SITE; THE ESTABLISHMENT OF OFFICES, BUILDINGS, AND OTHER FACILILITES NECESSARY FOR THE PROJECT. BONDING, PERMITS AND OTHER EXPENSES INCURRED PRIOR TO CONSTRUCTION. CITY OF MUSCATINE REQUIRES THAT VIDEO DOCUMENTATION OF EXISTING CONDITIONS BE MADE AND PROVIDED TO THE CITY PRIOR TO CONSTRUCTION ACTIVITIES COMMENCING ON THE PROJECT. NO ADDITIONAL COMPENSATION FOR DE-MOBILIZATION AND RE-MOBILIZATION DUE TO WINTER SHUTDOWN WILL BE PROVIDED.
0480	2554-0212020	VALVE BOX EXTENSION INCLUDES ALL EQUIPMENT AND LABOR TO ADJUST EXISTING WATER VALVE BOX TO NEW PAVEMENT ELEVATION. WATER VALVE SHALL MATCH THE SLOPE OF PROPOSED PAVEMENT. LID OF WATER VALVE SHALL NOT BE MORE THAN 1/4 INCH BELOW PAVEMENT. SEE D SHEETS FOR LOCATIONS. SEE TABULATION ON SHEET C.10.
0490	2599-9999003	FOUNDATION EXCAVATION IN SOIL SEE SHEETS N.02, N.04, N.06, AND N.08 FOR FOUNDATION LOCATIONS, DIAMETERS, AND EMBEDMENT DEPTHS DESCRIPTION THIS WORK SHALL CONSIST OF EXCAVATION FOR TRAFFIC SIGNAL MAST ARM FOUNDATIONS IN ACCORDANCE WITH SECTION 2433 OF THE STANDARD SPECIFICATIONS. MATERIALS ALL MATERIALS SHALL BE PAID FOR UNDER THE APPLICABLE FOUNDATION TYPE. CONSTRUCTION THE EXCAVATION FOR FOUNDATIONS SHALL BE IN ACCORDANCE WITH SECTION 2433 OF THE STANDARD SPECIFICATIONS. METHOD OF MEASUREMENT THIS WORK WILL BE MEASURE FOR PAYMENT IN CUBIC YARDS OF EXCAVATION. THE VOLUME WILL BE LIMITED TO THAT SHOWN IN THE PLANS OR AS AUTHORIZED BY THE ENGINEER. BASIS OF PAYMENT THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARDS OF EXCAVATION.
0500	2599-9999010	CONCRETE WASHOUT THE CONCRETE WASHOUTS SHALL BE MANUFACTURED WASHOUT CONTAINMENT SYSTEMS - NON-MANUFACTURED CONTAINMENT IS PROHIBITED. MEASUREMENT: NO MEASUREMENT WILL BE MADE ON THIS BID ITEM. BASIS OF PAYMENT: PAYMENT FOR CONCRETE WASHOUT WILL BE MADE AT THE CONTRACT PRICE AND INCLUDES, BUT IS NOT LIMITED TO, PROVIDING CONCRETE WASHOUT CONTAINMENT, COLLECTION, MAINTENANCE, DISPOSAL, AND REMOVAL. CONTRACTOR TO SUBMITT PROPOSED CONTAINMENT SYSTEM TO THE CITY FOR APPROVAL.
0510	2599-9999014	SPECIALTY SIGNS USED DURING CONSTRUCTION CITY OF MUSCATINE WILL PROVIDE DETAILS FOR SIGNS TO BE DISPLAYED FOR BUSINESS AND ACCESS DURING CONSTRUCTION. SIGNS SHALL BE BLACK ON WHITE. MEASUREMENT WILL BE MADE PER SQUARE FOOT OF SIGNS. BASIS OF PAYMENT FOR SIGNS WILL BE MADE AT THE CONTRACT PRICE PER SQUARE FOOT, AND INCLUDES BUT IS NOT LIMITED TO INSTALLATION, MAINTENANCE AND REMOVAL OF SIGNS AT CONCLUSION OF PROJECT.
0520	2601-2634110	MULCHING, MECHANICALLY-BONDED FIBER MATRIX MULCH TO BE PLACED IN SEPARATE APPLICATION FROM SEED PER IOWA DOT SPECIFICATIONS. SEE RR-SHEETS FOR DETAILS. SEE TABULATION ON SHEET C.05 AND C.06
0530	2601-2636044	SEEDING AND FERTILIZING (URBAN) CONTRACTOR SHALL USE HYDROSEED METHOD TO PLACE SEED AND FERTILIZER IN ONE APPLICATION. SEED MIX SHALL BE IOWA DOT SALT RESISTANT MIXTURE. SEE RR-SHEETS FOR DETAILS. QUANTITY REPRESENTTS TWO APPLICATIONS. SEE TABULATION ON SHEET C.05 AND C.06.
0540	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. REFER TO TAB. 100-19. ON SHEET C.11 AND RR-SHEETS INCLUDE ESTIMATED LOCATIONS FOR PLACEMENT OF “PERMIETER AND SLOPE SEDIMENT CONTROL” TO ADDRESS CONTROL OF SEDIMENT AND REDUCE VELOCITIES OF SURFACE RUNOFF DRAINING ONTO AND WITHIN THE PROJECT SITE DURING CONSTRUCTION AND UNTIL THE SITE IS STABILIZED. BID ITEM INCLUDES AN ADDITIONAL 25% TO BE USED AT THE ENGINEER’S DISCRETION IF CONDITIONS WARRANT. MEASUREMENT AND PAYMENT PER LINEAR FOOT IN PLACE WILL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING AND MAINTAINING THIS ITEM IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHALL INCLUDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR NECESSARY TO INSTALL, MAINTAIN THE WATTLES/SEDIMENT LOGS. THE WATTLES/SEDIMENT LOGS SHALL HAVE DEGRADABLE NETTING. THE FILL MATERIAL SHALL BE MADE UP OF COMPOST; REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
0550	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE THIS ITEM IS INCLUDED FOR REMOVAL OF THE PERIMETER SLOPE SEDIMENT CONTROL DEVICES. REFER TO TAB 100-19 ON SHEET C.11. COORDINATE REMOVAL OF TEMPORARY WATER POLLUTION CONTROL WORK WITH PERMANENT EROSION CONTROL WORK TO ENSURE ECONOMICAL, EFFECTIVE, AND CONTINOUS EROSION CONTROL THROUGHOUT THE CONSTRUCTION AND POST CONSTRUCTION PERIOD. MEASUREMENT FOR REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICES WILL BE PER LINEAR FOOT TO THE NEAREST FOOT. BASIS OF PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR THE LENGTH OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICES COMPLETELY REMOVED AND PROPERLY DISPOSED OF.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
0560	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER LENGTH OF SEDIMENT FILTER SHALL EXTEND BEYOND THE OPENING OF THE INTAKE TO SUFICCENLTY PREVENT DEBRIS AND SEDIMENT FROM ENTERING THE INTAKE. SEE RR-SHEETS FOR LOCATIONS. SEE TABULATION ON SHEET C.12
0570	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER SEDIMENT ACCUMULATED IN FRONT OF FILTER SHALL BE REMOVED AS REQUIRED BY ENGINEER.
0580	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER SEDIMENT FILTERS MAY BE REMOVED FROM INTAKE OPENING PRIOR TO TRAFFIC CONTROL BEING SHIFTED TO LANE NEXT TO CURB.
0590	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG SEDIMENT FILTER BAG SHALL BE OF TYPE TO CAPTURE SEDIMENT FROM A COMBINATION GRATE AND OPEN THROAT STYLE INTAKE. SEE RR-SHEETS FOR LCOATION. SEE TABULATION ON SHEET C.12
0600	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG SEDIMENT ACCUMULATED IN FILTER BAG SHALL BE REMOVED AS REQUIRED BY ENGINEER.
0610	2602-0000550	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER SEDIMENT FILTERS MAY BE REMOVED FROM INTAKE OPENING PRIOR TO TRAFFIC CONTROL BEING SHIFTED TO LANE NEXT TO CURB.
0620	2602-0010010	MOBILIZATIONS, EROSION CONTROL ITEM INCLUDES WORK NECESSARY FOR CONTRACTOR TO FULFILL THE ROLES AND RESPONSIBILITIES OF THE EROSION CONTROL PLAN. ALSO INCLUDES ESTABLISHMENT, MAINTENANCE, REPAIR AND/OR REPLACEMENT OF FACILITIES AND SPILL KITS.

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110-1
04-16-13

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a bid item

Begin Station	End Station	Side	Pavement Type	Area SY	Saw Cut* LF	Remarks
54+95.72	55+82.72	Left	Composite	201.1	260.0	Includes Curb and Gutter
61+59.43	62+38.11	Left	Composite	191.9	224.0	Includes Curb and Gutter
66+31.44	67+11.77	Left	Composite	316.8	350.0	Includes Curb and Gutter
71+24.86	172+17.50	Left	Composite	159.9	260.0	Includes Curb and Gutter, Spans Staion Equation
Totals				869.8	1094.0	

08-01-08

CURB REMOVAL

Begin Station	End Station	Side	Length STA	Remarks
33+40.72	33+55.86	Left	0.23	
33+50.00	33+94.20	Right	0.47	
33+87.22	34+84.39	Left	1.03	
34+61.13	35+20.83	Right	0.75	
35+04.37	35+42.17	Left	0.38	
36+81.65	37+18.89	Right	0.44	
36+88.83	37+19.02	Left	0.40	
37+45.52	37+67.21	Left	0.33	
37+50.09	37+70.32	Right	0.21	
40+51.36	40+77.80	Right	0.34	
40+53.49	40+77.74	Left	0.35	
41+03.84	41+30.34	Left	0.41	
41+05.12	41+31.08	Right	0.33	
42+34.18	42+68.51	Right	0.35	
43+20.88	43+90.59	Right	0.91	
43+60.72	43+91.62	Left	0.40	
44+19.01	44+43.68	Left	0.32	
45+47.51	45+73.01	Left	0.26	
45+97.86	46+09.68	Left	0.12	
49+55.95	50+02.95	Left	0.72	
50+46.46	51+06.01	Left	0.52	
50+90.95	51+10.93	Right	0.42	
52+82.57	53+09.15	Right	0.30	
53+37.22	53+64.29	Right	0.31	
54+29.01	54+65.50	Left	0.36	
54+95.97	55+86.02	Right	0.90	
56+02.07	56+28.47	Right	0.28	
56+59.41	56+85.70	Right	0.35	
57+88.94	58+52.37	Left	0.67	
58+83.60	59+02.15	Left	0.26	
58+82.17	59+52.12	Right	0.77	
59+77.65	60+07.59	Right	0.35	
60+07.52	60+24.30	Left	0.17	
61+11.94	61+59.44	Left	0.48	
62+38.11	63+24.67	Left	0.87	
62+39.63	62+71.46	Right	0.35	
62+98.44	63+25.94	Right	0.31	
63+53.66	63+68.82	Left	0.15	
65+06.74	65+11.87	Right	0.05	
65+34.99	65+62.57	Right	0.30	
65+88.12	66+15.92	Right	0.35	
65+97.22	66+04.29	Left	0.07	
67+34.51	67+60.01	Right	0.28	
67+91.04	68+08.66	Right	0.20	
68+28.25	68+36.04	Left	0.08	
69+31.67	69+53.26	Left	0.27	
69+34.89	69+64.10	Right	0.32	
69+85.79	70+11.28	Left	0.27	
69+93.33	70+14.21	Right	0.22	

110-4
08-01-08

CURB REMOVAL

Begin Station	End Station	Side	Length STA	Remarks
71+14.34	171+51.08	Right	0.54	Spans Staion Equation
171+93.45	172+24.40	Right	0.42	
174+22.36	175+21.59	Left	1.17	
174+33.36	174+55.89	Right	0.23	
175+46.28	175+67.90	Left	0.29	
177+36.20	177+58.21	Right	0.29	
177+78.08	177+99.89	Right	0.31	
177+80.64	178+81.08	Left	1.06	
179+04.67	179+26.34	Left	0.26	
179+88.93	180+12.53	Left	0.24	
181+34.18	181+41.53	Left	0.07	
181+35.84	181+42.50	Right	0.07	
182+19.82	182+43.04	Left	0.32	
182+66.01	182+88.73	Left	0.27	
183+23.67	183+76.83	Right	0.65	
183+54.80	184+34.83	Left	0.80	
183+98.19	184+20.98	Right	0.29	
186+16.41	186+26.91	Left	0.11	
189+54.55	189+64.85	Left	0.14	
189+84.65	189+95.67	Left	0.15	
190+54.42	190+60.45	Right	0.06	
191+63.63	191+97.58	Right	0.34	
192+72.76	193+33.81	Right	0.61	
196+36.59	196+76.99	Left	0.64	
196+40.01	196+68.89	Right	0.35	
197+13.59	197+54.57	Left	0.61	
197+15.18	197+51.08	Right	0.49	
Totals			29.7	

110-08
04-17-18

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

Location Station	Location Side	Area SY	Saw Cut* LF	Remarks
60+12.70	Left	4.9	4.0	
174+18.73	Left	69.1	97.0	
174+36.32	Right	23.8	26.0	
192+73.79	Right	25.7	32.0	
Totals		123.5	159.0	

110-5
10-20-15

SIDEWALK REMOVAL

* Not a bid item

Begin Station	End Station	Area SY	Saw Cut* LF	Remarks
33+40.72	33+55.87	19.4	35.0	
33+41.88	33+81.95	15.2	4.0	
33+87.22	34+84.39	148.0	132.0	
34+86.35	35+21.07	11.4	4.0	
35+04.37	35+42.17	33.5	56.0	
36+81.69	37+18.89	17.4	8.0	
36+88.83	37+16.19	20.6	8.0	
37+53.80	37+78.22	10.8	4.0	
37+47.88	37+77.03	20.4	8.0	
40+51.37	40+68.21	11.9	8.0	
40+48.50	40+74.94	19.4	8.0	
41+08.01	41+37.06	18.3	8.0	
41+12.88	41+31.06	15.4	8.0	
42+34.08	42+63.03	18.0	8.0	
43+16.86	43+90.77	44.3	5.0	
43+50.76	43+88.13	20.4	8.0	
44+21.54	44+43.60	15.5	8.0	
49+51.38	50+07.26	47.4	8.0	
49+49.53	49+78.20	21.6	8.0	
50+49.88	50+66.08	14.6	8.0	
50+65.05	51+16.21	25.1	8.0	
50+92.91	51+16.49	20.1	8.0	
52+77.56	53+00.29	24.9	8.0	
53+46.41	53+64.29	21.0	8.0	
54+29.04	54+65.53	15.8	8.0	
54+91.27	55+16.50	24.0	8.0	
54+95.98	55+86.05	40.4	16.0	
55+60.30	55+87.68	30.6	10.0	
55+97.11	56+21.53	18.2	8.0	
56+66.69	56+85.77	17.2	8.0	
57+88.94	58+46.13	42.3	10.0	
58+82.19	59+40.39	31.0	10.0	
58+83.39	59+02.16	30.2	39.0	
59+88.02	60+07.56	19.2	8.0	
60+07.47	60+18.36	4.1	5.0	
61+11.94	61+74.71	33.4	5.0	
62+23.07	63+24.66	57.8	6.0	
62+36.90	62+64.33	23.0	8.0	
63+07.50	63+31.10	20.5	8.0	
63+53.62	63+68.77	8.4	10.0	
65+06.75	65+11.88	2.9	10.0	
65+35.09	65+59.70	25.2	35.0	
65+90.20	66+20.94	26.0	28.0	

110-5
10-20-15

SIDEWALK REMOVAL

* Not a bid item

Begin Station	End Station	Area SY	Saw Cut* LF	Remarks
65+97.12	66+04.17	3.9	10.0	
66+31.23	66+52.22	23.7	10.0	
66+94.38	67+21.73	39.9	55.0	
67+34.74	67+51.34	11.1	8.0	
67+99.36	68+18.99	11.6	8.0	
68+28.25	68+36.04	7.4	16.0	
69+30.62	69+56.81	13.0	15.0	
69+31.32	69+50.64	24.6	14.0	
69+88.93	70+11.27	16.8	32.0	
70+00.31	70+14.28	5.0	4.0	
71+03.04	171+50.97	54.0	60.0	
71+26.98	171+54.77	28.6	10.0	
171+93.36	172+17.72	17.8	10.0	
171+96.05	172+31.86	37.8	10.0	
175+01.42	175+19.21	14.0	10.0	
175+25.54	175+28.52	2.7	3.0	
175+49.70	175+77.34	20.9	10.0	
175+70.00	175+72.79	2.5	3.0	
177+35.18	177+54.40	19.8	8.0	
177+81.42	178+01.77	16.3	8.0	
178+60.24	178+77.84	11.6	8.0	
178+56.72	178+58.80	1.9	3.0	
179+09.23	179+31.70	17.7	8.0	
179+11.58	179+13.52	1.7	3.0	
180+64.35	180+67.20	2.6	3.0	
181+46.08	181+49.87	3.4	4.0	
182+14.93	182+39.36	17.7	8.0	
182+64.42	182+69.67	3.2	4.0	
182+69.50	182+92.74	21.3	20.0	
183+49.28	183+71.97	15.2	8.0	
184+03.70	184+20.92	14.2	8.0	
184+12.29	184+15.95	3.3	4.0	
189+41.93	189+60.17	14.1	8.0	
189+88.89	190+07.11	16.3	8.0	
193+09.50	193+14.65	2.5	10.0	
196+31.47	196+74.50	74.9	76.0	
196+41.38	196+60.23	28.0	8.0	
197+16.16	197+59.73	66.6	73.0	
197+18.77	197+30.32	22.2	5.0	
Totals		1814.3	1189.0	

110-15
04-16-13

REMOVAL OF INTAKES AND UTILITY ACCESSES

No.	Location/Description	Type	Remarks
1	57+80.52	SW-301	
2	62+72.84	SW-301	
3	66+68.81	SW-301	
Totals		3	

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CLASS 10 EXCAVATION, TOPSOIL PLACEMENT, AND SEEDING

Location				Excavation		Topsoil Placement		Seeding and Fertilizing (Urban)	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	Thickness (IN)	CY	Thickness (IN)	CY	AC	
E 2ND STREET	NE	30+67.30	30+89.84	4"	0.6	4"	0.5	0.001	
E 2ND STREET	NE	31+39.91	33+48.06	4"	14.6	4"	10.4	0.019	
E 2ND STREET	NE	33+47.69	33+93.20	4"	0.8	4"	0.6	0.001	
E 2ND STREET	NE	33+52.93	33+72.84	4"	1.3	4"	0.9	0.002	
E 2ND STREET	NE	34+62.93	35+15.23	4"	1.1	4"	0.8	0.001	
E 2ND STREET	NE	34+69.24	35+09.80	4"	2.4	4"	1.7	0.003	
E 2ND STREET	NE	35+14.94	36+81.62	4"	2.7	4"	1.9	0.004	
E 2ND STREET	NE	36+81.62	37+15.07	4"	0.6	4"	0.5	0.001	
E 2ND STREET	NE	37+52.13	37+70.24	4"	0.5	4"	0.3	0.001	
E 2ND STREET	NE	37+75.08	40+51.31	4"	3.9	4"	2.8	0.005	
E 2ND STREET	NE	40+51.31	40+63.93	4"	0.4	4"	0.3	0.000	
E 2ND STREET	NE	40+67.77	40+75.34	4"	1.2	4"	0.9	0.002	
E 2ND STREET	NE	41+07.69	41+15.35	4"	1.0	4"	0.7	0.001	
E 2ND STREET	NE	41+19.40	41+31.09	4"	0.3	4"	0.2	0.000	
E 2ND STREET	NE	41+35.98	42+33.98	4"	1.1	4"	0.8	0.001	
E 2ND STREET	NE	42+33.98	42+53.91	4"	0.4	4"	0.3	0.001	
E 2ND STREET	NE	42+49.01	42+67.08	4"	1.0	4"	0.7	0.001	
E 2ND STREET	NE	43+17.19	43+90.77	4"	2.6	4"	1.9	0.003	
E 2ND STREET	NE	45+31.02	45+71.14	4"	0.7	4"	0.5	0.001	
E 2ND STREET	NE	45+92.75	46+07.60	4"	0.2	4"	0.2	0.000	
E 2ND STREET	NE	46+12.54	46+70.90	4"	0.8	4"	0.5	0.001	
E 2ND STREET	NE	46+93.23	47+12.05	4"	0.4	4"	0.3	0.001	
E 2ND STREET	NE	47+89.86	48+33.60	4"	0.9	4"	0.6	0.001	
E 2ND STREET	NE	48+57.33	49+52.19	4"	1.7	4"	1.2	0.002	
E 2ND STREET	NE	49+55.88	49+70.42	4"	0.6	4"	0.4	0.001	
E 2ND STREET	NE	49+68.71	49+79.05	4"	4.2	4"	3.0	0.006	
E 2ND STREET	SE	36+89.02	36+97.48	4"	0.1	4"	0.1	0.000	
E 2ND STREET	SE	37+00.72	37+06.92	4"	0.4	4"	0.3	0.001	
E 2ND STREET	SE	37+10.86	37+16.98	4"	1.6	4"	1.2	0.002	
E 2ND STREET	SE	37+48.02	37+53.60	4"	1.7	4"	1.2	0.002	
E 2ND STREET	SE	37+57.42	37+67.28	4"	0.5	4"	0.3	0.001	
E 2ND STREET	SE	40+48.60	40+63.74	4"	0.4	4"	0.3	0.001	
E 2ND STREET	SE	40+62.71	40+63.74	4"	0.1	4"	0.1	0.000	
E 2ND STREET	SE	40+68.73	40+74.27	4"	0.6	4"	0.4	0.001	
E 2ND STREET	SE	40+68.73	40+75.29	4"	0.3	4"	0.2	0.000	
E 2ND STREET	SE	41+06.42	41+15.47	4"	1.2	4"	0.8	0.002	
E 2ND STREET	SE	41+08.31	41+15.47	4"	0.8	4"	0.5	0.001	
E 2ND STREET	SE	41+19.40	41+35.45	4"	0.5	4"	0.4	0.001	
E 2ND STREET	SE	42+87.64	43+53.86	4"	0.6	4"	0.4	0.001	
E 2ND STREET	SE	43+60.80	43+84.40	4"	0.6	4"	0.4	0.001	
E 2ND STREET	SE	44+26.56	44+43.25	4"	0.4	4"	0.3	0.001	
E 2ND STREET	SE	44+43.25	44+57.73	4"	0.3	4"	0.2	0.000	
E 2ND STREET	SE	45+17.53	47+24.81	4"	4.2	4"	3.0	0.006	
E 2ND STREET	SE	47+43.64	48+06.73	4"	1.2	4"	0.9	0.002	
E 2ND STREET	SE	48+29.85	49+55.92	4"	2.6	4"	1.9	0.003	
E 2ND STREET	SE	49+55.92	49+93.40	4"	0.8	4"	0.6	0.001	
E 2ND STREET	SE	49+91.26	49+99.80	4"	1.4	4"	1.0	0.002	
PARK AVENUE	N	49+88.85	50+07.71	4"	5.1	4"	3.6	0.007	
PARK AVENUE	N	50+09.55	50+53.01	4"	3.8	4"	2.7	0.005	
PARK AVENUE	N	50+51.60	50+62.87	4"	0.4	4"	0.3	0.001	
PARK AVENUE	N	51+04.51	51+11.05	4"	0.1	4"	0.1	0.000	
PARK AVENUE	N	51+15.41	52+82.69	4"	2.9	4"	2.1	0.004	
PARK AVENUE	N	52+77.55	52+96.58	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	53+01.43	53+06.92	4"	0.6	4"	0.4	0.001	
PARK AVENUE	N	53+39.40	53+47.07	4"	0.6	4"	0.4	0.001	
PARK AVENUE	N	53+64.32	53+84.53	4"	0.4	4"	0.3	0.000	
PARK AVENUE	N	53+89.54	54+68.36	4"	1.4	4"	1.0	0.002	
PARK AVENUE	N	55+81.11	56+02.25	4"	0.3	4"	0.2	0.000	
PARK AVENUE	N	55+97.17	56+16.12	4"	0.6	4"	0.4	0.001	
PARK AVENUE	N	56+21.19	56+26.65	4"	0.5	4"	0.4	0.001	
PARK AVENUE	N	56+59.50	56+67.45	4"	0.9	4"	0.6	0.001	
PARK AVENUE	N	56+71.74	56+85.69	4"	0.6	4"	0.4	0.001	
PARK AVENUE	N	56+85.69	57+89.01	4"	1.7	4"	1.2	0.002	
PARK AVENUE	N	58+19.63	59+33.51	4"	2.0	4"	1.4	0.003	
PARK AVENUE	N	58+82.31	59+35.58	4"	1.2	4"	0.8	0.002	

04-18-17

CLASS 10 EXCAVATION, TOPSOIL PLACEMENT, AND SEEDING

Location				Excavation		Topsoil Placement		Seeding and Fertilizing (Urban)	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	Thickness (IN)	CY	Thickness (IN)	CY	AC	
PARK AVENUE	N	59+40.67	59+49.71	4"	1.2	4"	0.8	0.002	
PARK AVENUE	N	59+80.07	59+88.82	4"	0.9	4"	0.7	0.001	
PARK AVENUE	N	59+93.56	60+07.59	4"	0.5	4"	0.4	0.001	
PARK AVENUE	N	61+38.75	62+57.80	4"	3.4	4"	2.4	0.004	
PARK AVENUE	N	62+61.14	62+69.28	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	63+01.10	63+08.93	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	63+13.41	61+31.18	4"	0.5	4"	0.4	0.001	
PARK AVENUE	N	63+13.33	64+05.18	4"	3.1	4"	2.2	0.004	
PARK AVENUE	N	65+35.18	65+52.99	4"	0.4	4"	0.3	0.000	
PARK AVENUE	N	65+57.20	65+60.03	4"	0.2	4"	0.2	0.000	
PARK AVENUE	N	65+90.66	65+97.40	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	66+00.20	66+06.60	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	66+16.07	67+34.76	4"	1.7	4"	1.2	0.002	
PARK AVENUE	N	67+45.64	67+46.66	4"	0.2	4"	0.1	0.000	
PARK AVENUE	N	67+50.28	67+57.82	4"	0.4	4"	0.3	0.001	
PARK AVENUE	N	67+93.10	67+99.42	4"	0.4	4"	0.3	0.001	
PARK AVENUE	N	68+03.59	68+19.45	4"	0.5	4"	0.3	0.001	
PARK AVENUE	N	68+04.18	69+50.40	4"	5.9	4"	4.2	0.008	
PARK AVENUE	N	69+30.67	69+61.84	4"	0.6	4"	0.4	0.001	
PARK AVENUE	N	70+14.43	70+28.51	4"	0.5	4"	0.3	0.001	
PARK AVENUE	N	71+14.14	71+43.80	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	172+04.46	172+31.81	4"	0.7	4"	0.5	0.001	
PARK AVENUE	N	172+24.76	173+44.43	4"	13.5	4"	9.6	0.018	
PARK AVENUE	N	173+65.90	174+37.37	4"	9.9	4"	7.1	0.013	
PARK AVENUE	N	174+53.56	175+25.10	4"	9.6	4"	6.9	0.013	
PARK AVENUE	N	175+28.20	175+69.91	4"	5.8	4"	4.2	0.008	
PARK AVENUE	N	175+72.48	177+50.79	4"	24.1	4"	17.2	0.032	
PARK AVENUE	N	177+35.20	177+39.90	4"	0.2	4"	0.2	0.000	
PARK AVENUE	N	177+45.01	177+55.79	4"	0.8	4"	0.6	0.001	
PARK AVENUE	N	177+80.62	177+92.50	4"	1.3	4"	0.9	0.002	
PARK AVENUE	N	177+85.40	178+56.73	4"	9.0	4"	6.5	0.012	
PARK AVENUE	N	177+96.80	178+01.63	4"	0.2	4"	0.1	0.000	
PARK AVENUE	N	178+58.80	179+11.53	4"	7.6	4"	5.4	0.010	
PARK AVENUE	N	179+13.50	180+64.44	4"	20.8	4"	14.9	0.028	
PARK AVENUE	N	180+67.20	181+45.70	4"	11.0	4"	7.9	0.015	
PARK AVENUE	N	181+49.60	182+65.30	4"	16.3	4"	11.6	0.022	
PARK AVENUE	N	182+68.30	183+68.60	4"	12.6	4"	9.0	0.017	
PARK AVENUE	N	183+49.40	183+59.39	4"	0.3	4"	0.2	0.000	
PARK AVENUE	N	183+63.26	183+74.35	4"	2.0	4"	1.4	0.003	
PARK AVENUE	N	184+00.70	184+11.83	4"	1.1	4"	0.8	0.002	
PARK AVENUE	N	184+07.82	185+32.40	4"	9.9	4"	7.1	0.013	
PARK AVENUE	N	184+15.95	184+20.89	4"	0.2	4"	0.2	0.000	
PARK AVENUE	N	185+56.01	188+19.60	4"	26.4	4"	18.8	0.035	
PARK AVENUE	N	188+99.10	190+14.95	4"	12.4	4"	8.9	0.017	
PARK AVENUE	N	190+47.40	192+78.50	4"	27.6	4"	19.7	0.037	
PARK AVENUE	N	193+10.60	193+65.80	4"	7.0	4"	5.0	0.009	
PARK AVENUE	N	194+17.40	196+43.30	4"	24.3	4"	17.4	0.032	
PARK AVENUE	N	196+32.04	196+48.40	4"	0.5	4"	0.4	0.001	
PARK AVENUE	N	196+49.60	196+66.83	4"	1.2	4"	0.9	0.002	
PARK AVENUE	N	196+49.93	196+57.22	4"	0.3	4"	0.2	0.000	
PARK AVENUE	N	197+18.40	97+23.80	4"	0.5	4"	0.4	0.001	
PARK AVENUE	N	197+22.11	197+39.60	4"	0.6	4"	0.5	0.001	
PARK AVENUE	N	197+28.70	197+51.70	4"	1.1	4"	0.8	0.001	
PARK AVENUE	S	50+49.50	50+64.10	4"	0.7	4"	0.5	0.001	
PARK AVENUE	S	50+57.60	50+64.70	4"	0.2	4"	0.2	0.000	
PARK AVENUE	S	50+62.60	51+05.04	4"	0.7	4"	0.5	0.001	
PARK AVENUE	S	51+05.04	52+00.10	4"	4.2	4"	3.0	0.006	
PARK AVENUE	S	52+29.70	53+58.85	4"	3.9	4"	2.8	0.005	
PARK AVENUE	S	53+85.44	55+03.21	4"	2.3	4"	1.7	0.003	
PARK AVENUE	S	54+91.10	55+08.44	4"	0.8	4"	0.5	0.001	
PARK AVENUE	S	55+10.10	55+18.80	4"	0.4	4"	0.3	0.001	
PARK AVENUE	S	55+19.94	55+20.61	4"	2.2	4"	1.6	0.003	
PARK AVENUE	S	55+54.62	55+59.69	4"	1.5	4"	1.1	0.002	
PARK AVENUE	S	55+55.90	55+66.12	4"	0.4	4"	0.3	0.001	
PARK AVENUE	S	55+65.35	55+87.36	4"	0.8	4"	0.6	0.001	

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103-10

04-18-17

CLASS 10 EXCAVATION, TOPSOIL PLACEMENT, AND SEEDING

Location				Excavation		Topsoil Placement		Seeding and Fertilizing (Urban)	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	Thickness (IN)	CY	Thickness (IN)	CY	AC	
PARK AVENUE	S	55+72.99	56+88.80	4"	2.6	4"	1.9	0.003	
PARK AVENUE	S	57+88.86	58+39.20	4"	1.1	4"	0.8	0.001	
PARK AVENUE	S	58+42.91	58+51.51	4"	1.5	4"	1.0	0.002	
PARK AVENUE	S	58+98.50	59+02.20	4"	0.2	4"	0.2	0.000	
PARK AVENUE	S	59+39.47	60+15.25	4"	1.6	4"	1.2	0.002	
PARK AVENUE	S	60+41.60	60+50.83	4"	0.2	4"	0.2	0.000	
PARK AVENUE	S	60+87.80	61+67.10	4"	0.9	4"	0.6	0.001	
PARK AVENUE	S	61+11.73	61+75.89	4"	1.1	4"	0.8	0.001	
PARK AVENUE	S	62+21.29	63+24.43	4"	1.8	4"	1.3	0.002	
PARK AVENUE	S	63+73.41	64+10.98	4"	0.6	4"	0.4	0.001	
PARK AVENUE	S	64+31.42	64+86.18	4"	1.2	4"	0.9	0.002	
PARK AVENUE	S	65+06.72	65+29.54	4"	0.4	4"	0.3	0.001	
PARK AVENUE	S	65+50.34	65+76.56	4"	0.5	4"	0.4	0.001	
PARK AVENUE	S	66+30.97	66+42.16	4"	0.5	4"	0.4	0.001	
PARK AVENUE	S	68+28.19	68+35.93	4"	0.1	4"	0.1	0.000	
PARK AVENUE	S	69+31.22	69+40.89	4"	0.5	4"	0.4	0.001	
PARK AVENUE	S	71+26.79	71+44.60	4"	0.8	4"	0.5	0.001	
PARK AVENUE	S	171+49.97	171+59.78	4"	3.4	4"	2.4	0.005	
PARK AVENUE	S	171+89.25	171+98.08	4"	0.5	4"	0.4	0.001	
PARK AVENUE	S	171+94.41	172+06.69	4"	0.8	4"	0.6	0.001	
PARK AVENUE	S	172+03.21	172+17.85	4"	0.4	4"	0.3	0.001	
PARK AVENUE	S	172+13.09	173+43.49	4"	17.1	4"	12.2	0.023	
PARK AVENUE	S	175+10.45	175+18.83	4"	7.2	4"	5.1	0.010	
PARK AVENUE	S	175+48.70	175+57.65	4"	1.4	4"	1.0	0.002	
PARK AVENUE	S	175+53.80	175+58.41	4"	0.2	4"	0.1	0.000	
PARK AVENUE	S	175+61.69	175+77.33	4"	0.4	4"	0.3	0.001	
PARK AVENUE	S	175+62.48	177+04.36	4"	15.6	4"	11.1	0.021	
PARK AVENUE	S	177+25.34	177+81.98	4"	5.9	4"	4.2	0.008	
PARK AVENUE	S	178+57.84	178+73.20	4"	1.2	4"	0.9	0.002	
PARK AVENUE	S	178+70.29	178+78.66	4"	0.6	4"	0.4	0.001	
PARK AVENUE	S	179+06.98	179+16.63	4"	0.6	4"	0.4	0.001	
PARK AVENUE	S	179+12.83	180+64.15	4"	16.3	4"	11.6	0.022	
PARK AVENUE	S	179+21.78	179+31.67	4"	0.2	4"	0.2	0.000	
PARK AVENUE	S	180+85.36	182+34.93	4"	17.0	4"	12.2	0.023	
PARK AVENUE	S	182+29.15	182+40.35	4"	1.3	4"	0.9	0.002	
PARK AVENUE	S	182+68.21	182+78.75	4"	0.8	4"	0.6	0.001	
PARK AVENUE	S	182+74.10	184+12.35	4"	15.8	4"	11.3	0.021	
PARK AVENUE	S	182+82.72	182+92.75	4"	0.2	4"	0.2	0.000	
PARK AVENUE	S	184+15.94	185+76.95	4"	20.5	4"	14.6	0.027	
PARK AVENUE	S	186+23.80	188+17.63	4"	24.9	4"	17.8	0.033	
PARK AVENUE	S	188+30.82	189+56.68	4"	14.7	4"	10.5	0.020	
PARK AVENUE	S	189+42.07	189+47.04	4"	0.2	4"	0.1	0.000	
PARK AVENUE	S	189+51.41	189+62.62	4"	0.8	4"	0.6	0.001	
PARK AVENUE	S	189+86.83	189+98.05	4"	0.8	4"	0.6	0.001	
PARK AVENUE	S	189+92.03	190+83.94	4"	10.8	4"	7.7	0.014	
PARK AVENUE	S	190+02.30	190+07.15	4"	0.2	4"	0.1	0.000	
PARK AVENUE	S	194+24.28	195+21.19	4"	12.1	4"	8.7	0.016	
PARK AVENUE	S	195+25.34	195+96.46	4"	8.6	4"	6.1	0.011	
PARK AVENUE	S	196+00.25	196+36.63	4"	4.7	4"	3.3	0.006	
PARK AVENUE	S	196+36.63	196+44.78	4"	0.2	4"	0.2	0.000	
PARK AVENUE	S	196+48.67	196+64.88	4"	1.8	4"	1.3	0.002	
				TOTALS	613.7		438.4	0.8	

190-62

10-15-13

EXISTING SIGNS TO BE REMOVED

SIGN NUMBER OR DESCRIPTION	LOCATION STATION	DIRECTION OF TRAVEL	TYPE 'A' SIGN ASSEMBLY	TYPE 'B' SIGN ASSEMBLY	REMOVE & REINSTALL EXISTING SIGNS		CONCRETE FOUNDATION	SUPPORT STRUCTURE & FOUNDATION	APPLICABLE SIGNING NOTES	REMARKS
					TYPE 'A'	TYPE 'B'				
			EACH	EACH	EACH	EACH	EACH	EACH		
N/A (5)	34+28	W	5							W 92, BUS 6, N 38, HOSP., BYWAYS
R1-1	40+73	E	1							STOP SIGN
D3-1 (2)	41+14	N	2							PARK AVE, BROOK ST
W3-1	43+26	N	1							STOP AHEAD SIGN
R1-1	43+89	E	1							STOP SIGN
R1-1	49+60	N	1							STOP SIGN
D3-1 (2)	49+76	N	2							E 2ND ST, PARK AVE
R1-1	50+15	W	1							STOP SIGN
D3-1 (2)	50+56	S	2							PARK AVE, E 4TH ST
R1-1	50+93	W	1							STOP SIGN
R1-1	50+97	S	1							STOP SIGN
D3-1 (2)	53+45	N	2							PARK AVE, HOLLY ST
R5-2S	55+15	S	1							NO TRUCKS
D3-1 (2)	56+24	N	2							PARK AVE, LAUREL ST
D3-1 (2)	58+47	S	2							PARK AVE, WILLOW ST
R1-1	58+47	E	1							STOP SIGN
D3-1 (2)	59+43	N	2							PARK AVE, CANON AVE
R7-1	60+04	N	1							NO PARKING ANY TIME
D3-1 (2)	62+64	N	2							PARK AVE, MAGNOLIA ST
D3-1 (2)	65+96	N	2							PARK AVE, SHERIDAN ST
W14-1	66+49	S	1							DEAD END
D3-1 (2)	66+49	S	2							PARK AVE, HALSTEAD ST
R1-1	66+49	E	1							STOP SIGN
D3-1 (2)	67+53	N	2							PARK AVE, SHERMAN ST
N/A (3)	171+53	S	3							22, BUS 61, 38/92
R1-1	178+76	S	1							STOP SIGN
Totals			43							

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102-6C

04-18-17

FULL-DEPTH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Location				Dimension			PCC Patches				Temporary Pavement	Subbase Patches	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels							
							PR-103	PR-102	PR-104	PR-105		PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	SY	No.	No.	No.	No.	
1	33+58.70		Left	18.00		8.00		11.55			11.55	11.55					
2	37+20.80		Left	32.00		8.00		17.77			17.77	17.77					
3	37+45.20		Left	22.00		8.00		14.27			14.27	14.27					
4	43+92.90		Left	32.00		8.00		14.61			14.61	14.61					
5	44+14.80		Left	29.00		8.00		17.75			17.75	17.75					
6	50+35.77		Left	36.00		8.00	83.30				83.30	83.30					
7	50+24.60		Right	123.00		8.00	200.80				200.80	200.80					
8	58+56.66		Left	25.00		8.00		23.41			23.41	23.41					
9	62+95.82		Right	17.00		8.00		13.80			13.80	13.80					
10	171+57.64		Right	44.00		8.00		65.60			65.60	65.60					
11	178+88.47		Left	30.00		8.00		29.60			29.60	29.60					
12	191+63.69		Right	34.00		8.00	63.60				63.60	63.60					
13	193+16.98		Right	17.00		8.00		14.40			14.40	14.40					
	Totals						347.70	222.76			570.46	570.46					

100-24

04-21-15

PCC PAVEMENT

Location				Mainline			Total Area By Pavement Thickness	Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area					
							SY				
				FT	FT	SY	8 IN	CY	CY	SY	
E 5TH AVENUE	BOTH	500+27.64	500+70.27	40.4	42.63	191.361	191.4		33.5		INCLUDES CURB AND GUTTER
MAGNOLIA STREET	BOTH	550+56.63	550+87.28	43.17	30.65	147.018	147.0		25.7		INCLUDES CURB AND GUTTER
HALLSTEAD STREET	BOTH	600+30.06	600+87.93	57.25	57.87	368.118	368.1		63.6		INCLUDES CURB AND GUTTER
WASHINGTON STREET	BOTH	651+49.41	651+81.82	43.7	32.41	157.369	157.4		27.5		INCLUDES CURB AND GUTTER
Totals							863.9		150.3		

100-24a

01-00-00

DRIVEWAY PCC CONCRETE

Location				Mainline			Total Area By Pavement Thickness	Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Side	Station to Station		Width	Length	Area					
							SY				
				FT	FT	SY	6 IN	CY	CY	SY	
PARK AVENUE	LEFT	60+13.19	60+24.42	4.3	11.2	5.4	5.4	0.8			
PARK AVENUE	LEFT	174+36.29	174+53.90	12.1	17.6	23.6	23.6	3.9			
PARK AVENUE	LEFT	192+78.64	193+10.62	7.3	32.0	26.0	26.0	4.4			
Totals							55.0	9.1			

102-16

10-21-14

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Location Station	Type of Notch or Runout	(S)	(I)	(DI)	(L)	(M)	Pavement Scarification	Remarks
		IN	IN	IN	FT	IN	SY	
33+68	Type 'N4'				87.5	2.0		
34+25	Type 'N4'				87.5	2.0		
37+36	Type 'N4'				87.5	2.0		
37+36	Type 'N4'				87.5	2.0		
40+91	Type 'N4'				87.5	2.0		
43+18	Type 'N4'				87.5	2.0		
44+04	Type 'N4'				87.5	2.0		
49+79	Type 'N4'				87.5	2.0		
50+16	Type 'N4'				87.5	2.0		
50+86	Type 'N4'				87.5	2.0		
50+23	Type 'N4'				87.5	2.0		
55+38	Type 'N4'				87.5	2.0		
56+45	Type 'N4'				87.5	2.0		
58+69	Type 'N4'				87.5	2.0		
59+64	Type 'N4'				87.5	2.0		
62+04	Type 'N4'				87.5	2.0		
62+84	Type 'N4'				87.5	2.0		
56+75	Type 'N4'				87.5	2.0		
66+76	Type 'N4'				87.5	2.0		
67+75	Type 'N4'				87.5	2.0		
69+77	Type 'N4'				87.5	2.0		
69+77	Type 'N4'				87.5	2.0		
171+77	Type 'N4'				87.5	2.0		
171+77	Type 'N4'				87.5	2.0		
175+30	Type 'N4'				87.5	2.0		
177+67	Type 'N4'				87.5	2.0		
178+92	Type 'N4'				87.5	2.0		
182+55	Type 'N4'				87.5	2.0		
183+87	Type 'N4'				87.5	2.0		
189+76	Type 'N4'				87.5	2.0		
196+92	Type 'N4'				87.5	2.0		
196+92	Type 'N4'				87.5	2.0		
Total					32.0			

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112-4

10-21-14

CURBS AND RAISED ISLANDS

Refer to PV-20, PV-102, and 6000s Detail Series.

① Bid Item

Point No.	Station	Offset	Island Interior Area ①	Curb and Gutter			Remarks
				Curb Type	Gutter Width	Length ①	
			SY		FT	LF	
1	33+40.79	22.37 LT		6" Standard PCC	2.0	23.1	
2	33+53.00	31.17 RT		6" Standard PCC	2.0	47.1	
3	33+87.22	36.34 LT		6" Standard PCC	2.0	102.4	
4	34+61.22	56.34 RT		6" Standard PCC	2.0	74.1	
5	35+04.38	22.47 LT		6" Standard PCC	2.0	37.8	
6	36+81.65	22.59 RT		6" Standard PCC	2.0	43.0	
7	36+88.72	22.55 LT		6" Standard PCC	2.0	41.0	
8	37+51.11	30.05 RT		6" Standard PCC	2.0	20.6	
9	37+47.99	44.41 LT		6" Standard PCC	2.0	34.9	
10	40+51.37	22.54 RT		6" Standard PCC	2.0	34.3	
11	40+53.49	22.65 LT		6" Standard PCC	2.0	36.0	
12	41+06.33	49.56 LT		6" Standard PCC	2.0	42.3	
13	41+07.62	39.31 RT		6" Standard PCC	2.0	33.8	
14	42+34.15	22.58 RT		6" Standard PCC	2.0	34.7	
15	43+22.36	38.93 RT		6" Standard PCC	2.0	89.0	
16	43+60.72	22.64 LT		6" Standard PCC	2.0	39.8	
17	44+21.50	40.71 LT		6" Standard PCC	2.0	31.8	
18	45+47.56	22.58 LT		6" Standard PCC	2.0	25.5	
19	45+97.78	22.56 LT		6" Standard PCC	2.0	11.7	
20	49+55.98	22.76 RT		6" Standard PCC	2.0	25.2	
21	49+55.95	22.53 LT		6" Standard PCC	2.0	71.7	
22	50+05.50	36.87 RT		6" Standard PCC	2.0	89.2	
23	50+49.64	46.00 LT		6" Standard PCC	2.0	51.4	
24	50+92.78	51.38 RT		6" Standard PCC	2.0	41.2	
25	52+82.56	22.45 LT		6" Standard PCC	2.0	29.3	
26	53+39.47	36.46 RT		6" Standard PCC	2.0	30.3	
27	54+28.98	22.55 LT		6" Standard PCC	2.0	36.5	
28	54+95.98	22.76 RT		6" Standard PCC	2.0	90.1	
29	56+02.14	22.39 RT		6" Standard PCC	2.0	27.7	
30	56+59.41	40.41 RT		6" Standard PCC	2.0	34.5	
31	57+88.94	22.57 LT		6" Standard PCC	2.0	75.3	
32	58+83.39	41.56 LT		6" Standard PCC	2.0	32.1	
33	58+82.17	22.54 RT		6" Standard PCC	2.0	75.2	
34	59+80.00	38.96 RT		6" Standard PCC	2.0	34.7	
35	60+07.52	22.60 LT		6" Driveway Drop PCC	2.0	16.8	
36	61+11.94	22.75 LT		6" Standard PCC	2.0	47.5	
37	62+38.15	22.33 LT		6" Standard PCC	2.0	86.5	
38	62+39.63	22.56 RT		6" Standard PCC	2.0	34.3	
39	63+01.02	36.61 RT		6" Standard PCC	2.0	30.5	
40	63+53.57	22.22 LT		6" Standard PCC	2.0	15.2	
41	65+06.73	22.50 RT		6" Standard PCC	2.0	5.2	
42	65+35.03	22.50 RT		6" Standard PCC	2.0	29.1	
43	65+90.62	38.79 RT		6" Standard PCC	2.0	34.2	
44	65+97.23	22.73 LT		6" Standard PCC	2.0	7.1	
45	67+34.59	22.57 RT		6" Standard PCC	2.0	27.3	
46	67+93.15	33.85 RT		6" Standard PCC	2.0	19.5	
47	68+28.25	22.71 LT		6" Standard PCC	2.0	7.8	
48	69+31.65	22.72 LT		6" Standard PCC	2.0	25.4	
49	69+34.98	22.66 RT		6" Standard PCC	2.0	31.6	
50	69+87.60	33.42 LT		6" Standard PCC	2.0	27.2	
51	69+95.91	34.03 RT		6" Standard PCC	2.0	22.2	
52	71+14.34	25.47 RT		6" Standard PCC	2.0	53.5	
53	171+95.93	49.42 RT		6" Standard PCC	2.0	42.1	
54	174+22.30	19.60 LT		4" Standard PCC	2.0	114.9	TOP OF CURB TO BE BELOW SIDEWALK SO BOULEVARD DRAINS TO STREET
55	174+33.35	19.54 RT		6" Driveway Drop PCC	2.0	22.6	
56	175+48.77	37.43 LT		6" Standard PCC	2.0	28.5	
57	177+36.19	19.21 RT		6" Standard PCC	2.0	28.5	
58	177+80.56	37.90 RT		6" Standard PCC	2.0	29.8	
59	178+58.62	20.13 LT		6" Standard PCC	2.0	26.9	
60	179+07.10	35.34 LT		6" Standard PCC	2.0	26.4	
61	179+88.94	20.09 LT		6" Standard PCC	2.0	23.6	
62	181+34.17	20.17 LT		6" Standard PCC	2.0	7.4	

112-4

10-21-14

CURBS AND RAISED ISLANDS

Refer to PV-20, PV-102, and 6000s Detail Series.

① Bid Item

Point No.	Station	Offset	Island Interior Area ①	Curb and Gutter			Remarks
				Curb Type	Gutter Width	Length ①	
			SY		FT	LF	
63	181+35.83	19.05 RT		6" Standard PCC	2.0	6.7	
64	182+19.83	20.12 LT		6" Standard PCC	2.0	31.7	
65	182+68.41	34.49 LT		6" Standard PCC	2.0	26.9	
66	183+23.62	19.98 RT		6" Standard PCC	2.0	64.2	
67	183+54.83	18.88 LT		6" Standard PCC	2.0	80.0	
68	184+00.64	37.34 RT		6" Standard PCC	2.0	28.2	
69	186+16.47	18.46 LT		6" Standard PCC	2.0	9.5	
70	189+54.56	23.70 LT		6" Standard PCC	2.0	14.2	
71	189+87.10	35.04 LT		6" Standard PCC	2.0	15.7	
72	191+63.63	20.31 RT		6" Standard PCC	2.0	34.0	
73	192+72.76	19.94 RT		6" Driveway Drop PCC	2.0	61.1	
74	196+36.47	19.96 LT		6" Standard PCC	2.0	63.2	
75	196+39.93	33.90 RT		6" Standard PCC	2.0	34.7	
76	197+18.53	55.33 RT		6" Standard PCC	2.0	48.2	
77	197+16.07	65.05 LT		6" Standard PCC	2.0	61.5	
	Total					2937.2	

112-4a

10-21-14

CURB SPECIAL AS PER PLAN

Refer to PV-20, PV-102, and 6000s Detail Series.

Bid Item

Point No.	Station	Offset	Curb and Gutter		Remarks
			Curb Type	Length	
				LF	
1	49+89.46	-27.84	Beam Curb	17.0	
2	49+91.30	-50.69	Beam Curb	16.5	
3	50+51.09	40.30	Beam Curb	25.5	
4	52+87.56	28.61	Beam Curb	25.0	
5	54+95.70	-23.87	6" Max Integral Curb	9.5	
6	54+95.70	-27.87	Beam Curb	34.5	
7	55+10.20	-24.82	6" Max Integral Curb	16.5	
8	55+55.86	-34.98	6" Max Integral Curb	19.5	
9	55+55.20	-41.97	6" Max Integral Curb	8.5	
10	55+82.70	-23.48	6" Max Integral Curb	11.0	
11	55+82.53	-29.29	Beam Curb	40.5	
12	58+27.91	-28.79	Beam Curb	21.0	
13	65+35.09	28.82	Beam Curb	21.5	
14	67+21.71	-31.88	Beam Curb	38.5	
15	71+14.47	32.11	Beam Curb	38.0	
16	171+96.52	46.20	6" Max Integral Curb	12.0	
17	172+31.76	31.40	Beam Curb	44.0	
18	196+36.56	-31.20	Beam Curb	9.0	
19	196+49.95	38.40	6" Max Integral Curb	14.0	
20	196+48.65	-32.06	Beam Curb	26.0	
21	197+21.89	45.70	6" Max Integral Curb	30.0	
22	197+23.74	-65.02	Beam Curb	55.0	
	Total			533	

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113-1A
04-16-19

SIDEWALKS

See MI-220 and S Sheets

Road Identification	Station to Station		Side	4" PCC Sidewalk SY	6" PCC Sidewalk SY	Special Backfill CY	Detectable Warnings SF	Remarks
2ND STREET	33+40.72	33+55.87	LT	19.9		2.2		
2ND STREET	33+47.61	33+92.47	RT	7.2	26.3	3.7	59	
2ND STREET	33+87.22	34+84.39	LT	141.6	6.7	16.5	12	
2ND STREET	34+63.34	35+21.07	RT	28.3	10.8	4.3	12	
2ND STREET	35+04.38	35+24.17	LT	33.7		3.7		
2ND STREET	36+81.69	37+18.86	RT	18.8		2.1		
2ND STREET	36+88.83	37+13.66	LT	9.6	11.3	2.3	16	
2ND STREET	37+50.37	37+67.31	LT	8.6	13.0	2.4	16	
2ND STREET	37+54.05	37+70.31	RT	6.8		0.8		
2ND STREET	40+51.37	40+71.51	RT	2.2	12.1	1.6	23	
2ND STREET	40+48.50	40+74.94	LT	6.9	15.8	2.5	30	
2ND STREET	41+06.72	41+35.35	LT	9.2	15.4	2.7	23	
2ND STREET	41+09.48	41+31.06	RT	5.4	15.6	2.3	27	
2ND STREET	42+34.08	42+61.95	RT	11.7	10.1	2.4	22	
2ND STREET	43+17.22	43+90.77	RT	38.3	4.5	4.8	17	
2ND STREET	43+60.72	43+89.16	LT	9.2	15.4	2.7	12	
2ND STREET	44+21.50	44+43.67	LT	2.5	16.4	2.1	12	
2ND STREET	45+47.56	45+72.96	LT	11.0		1.2		
2ND STREET	45+97.70	46+15.38	LT	7.7		0.9		
2ND STREET	49+55.95	50+07.96	LT	16.7	32.9	5.5	20	
2ND STREET	49+55.98	49+78.98	RT	15.7	10.3	2.9	20	
PARK AVENUE	50+46.00	50+66.08	RT	2.7	14.8	1.9	10	
PARK AVENUE	50+51.32	51+16.65	LT	14.1	26.5	4.5	20	Spans Station Equation
PARK AVENUE	50+92.76	51+16.30	RT	4.5	21.1	2.8	25	
PARK AVENUE	52+77.56	53+04.96	RT	11.5	19.0	3.4	21	
PARK AVENUE	53+42.05	53+64.29	RT	9.4	17.1	2.9	21	
PARK AVENUE	54+29.03	54+65.47	LT	15.8		1.8		
PARK AVENUE	54+95.71	55+20.51	LT	4.5	25.4	3.3	24	
PARK AVENUE	54+95.98	55+86.01	RT	17.2	22.7	4.4	24	
PARK AVENUE	55+55.22	55+87.68	LT	2.6	35.1	4.2	24	
PARK AVENUE	55+97.14	56+25.28	RT	8.1	13.5	2.4	22	
PARK AVENUE	56+62.89	56+85.77	RT	5.2	13.4	2.1	20	
PARK AVENUE	57+88.92	58+49.11	LT	29.2	16.8	5.1	31	
PARK AVENUE	58+83.44	59+02.17	LT	22.0	8.5	3.4	29	
PARK AVENUE	58+82.19	59+44.58	RT	22.4	12.1	3.8	22	
PARK AVENUE	59+84.41	60+07.56	RT	6.1	13.7	2.2	22	
PARK AVENUE	60+07.48	60+24.48	LT	9.3		1.0		
PARK AVENUE	61+11.97	61+74.68	LT	21.0	5.4	2.9	13	
PARK AVENUE	62+22.50	63+24.66	LT	53.3	5.5	6.5	13	
PARK AVENUE	62+36.88	62+66.81	RT	7.5	13.4	2.3	24	
PARK AVENUE	63+04.55	63+31.08	RT	6.6	12.0	2.1	18	
PARK AVENUE	63+53.62	63+68.77	LT	8.6		1.0		
PARK AVENUE	65+06.77	65+11.88	RT	3.6		0.4		
PARK AVENUE	65+35.09	65+59.85	RT	20.3	6.4	3.0	16	
PARK AVENUE	65+91.82	66+20.97	RT	11.8	14.3	2.9	20	
PARK AVENUE	66+31.24	66+52.22	LT	9.9	10.9	2.3	12	
PARK AVENUE	66+94.45	67+21.73	LT	13.4	27.1	4.5	12	
PARK AVENUE	67+34.74	67+55.92	RT	0.0	18.3	2.0	24	
PARK AVENUE	67+95.59	68+18.96	RT	1.7	10.8	1.4	18	
PARK AVENUE	68+28.25	68+35.99	LT	7.3		0.8		
PARK AVENUE	69+30.20	69+59.33	RT	7.1	8.6	1.7	17	
PARK AVENUE	69+31.63	69+49.52	LT	14.7	9.9	2.7	20	
PARK AVENUE	69+87.60	70+11.27	LT	11.9	5.9	2.0	12	
PARK AVENUE	70+00.31	70+14.24	RT	4.0	2.3	0.7	8	
PARK AVENUE	71+03.04	171+51.71	RT	15.8	36.2	5.8	33	Spans Station Equation
PARK AVENUE	71+26.98	171+57.32	LT	8.9	21.9	3.4	27	Spans Station Equation
PARK AVENUE	171+88.67	172+17.72	LT	17.9	8.0	2.9	24	
PARK AVENUE	171+96.41	172+31.86	RT	10.0	27.9	4.2	27	
PARK AVENUE	174+18.73	175+19.09	LT	76.4	4.9	9.0	12	
PARK AVENUE	175+49.77	175+77.34	LT	15.1	3.7	2.1	10	
PARK AVENUE	177+35.18	177+54.86	RT	11.1	5.2	1.8	10	
PARK AVENUE	177+81.71	178+01.72	RT	9.0	6.5	1.7	10	
PARK AVENUE	178+60.22	178+78.24	LT	8.3	4.1	1.4	10	
PARK AVENUE	179+07.51	179+26.68	LT	11.1	5.0	1.8	10	

113-1A
04-16-19

SIDEWALKS

See MI-220 and S Sheets

Road Identification	Station to Station		Side	4" PCC Sidewalk SY	6" PCC Sidewalk SY	Special Backfill CY	Detectable Warnings SF	Remarks
PARK AVENUE	182+19.91	182+39.49	LT	10.8	5.3	1.8	10	
PARK AVENUE	182+69.32	182+92.74	LT	10.8	4.1	1.6	10	
PARK AVENUE	183+49.28	183+72.66	RT	8.8	9.6	2.0	8	
PARK AVENUE	184+02.80	184+20.92	RT	8.5	4.7	1.5	8	
PARK AVENUE	189+42.04	189+61.49	LT	10.3	5.0	1.7	10	
PARK AVENUE	189+87.87	190+07.15	LT	13.1	5.1	2.0	10	
PARK AVENUE	193+09.46	193+14.65	RT	2.6		0.3		
PARK AVENUE	196+36.47	196+74.51	LT	61.9	12.7	8.3	24	
PARK AVENUE	196+32.01	196+64.46	RT	17.4	15.9	3.7	24	
PARK AVENUE	197+15.49	197+63.74	LT	38.9	25.7	7.2	24	
PARK AVENUE	197+19.00	197+48.62	RT	25.4	12.6	4.2	24	
Total				1190.1	850.9	226.8	1188	

104-11
08-01-08

REBUILDING OF INTAKES AND UTILITY ACCESSES

No.	Location Station	Type	Adjustment
1	31+50	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
2	31+60	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
3	33+50	SW-507	ADJUST TOP AND RECONSTRUCT THROAT
4	34+89	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
5	35+12	SW-507	ADJUST TOP AND RECONSTRUCT THROAT
6	37+17	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
7	37+73	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
8	37+74	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
9	41+33	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
10	41+33	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
11	43+28	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
12	43+55	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
13	46+09	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
14	46+12	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
15	49+54	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
16	50+04	N/A	ADJUST INTAKE AND RECONSTRUCT THROAT
17	50+30	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
18	51+12	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
19	51+11	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
20	59+19	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
21	59+23	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
22	62+38	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
23	62+45	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
24	66+29	SW-501	ADJUST INTAKE FRAME AND GRATE
25	66+59	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
26	67+13	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
27	68+17	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
28	70+16	SW-541	REPLACE INTAKE TOP AND RECONSTRUCT THROAT
29	174+71	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
30	174+70	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
31	175+82	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
32	178+08	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
33	184+25	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
34	189+59	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
35	190+09	SW-545	ADJUST TOP AND RECONSTRUCT THROAT
Total SW-541 Top			24
Total Intake Adjust Major			11

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104-10

08-01-08

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment	Notes
1	30+82	Water Valve	0.05	
2	31+20	Sanitary Manhole	-0.04	
3	31+26	Storm Manhole	-0.07	
4	33+37	Water Valve	-0.04	
5	34+20	Water Valve	-0.09	
6	34+36	Water Valve	0.62	
7	34+41	Sanitary Manhole	-0.25	
8	34+76	Water Valve	0.42	
9	34+90	Storm Manhole	0.28	Burried Manhole
10	35+00	Water Valve	-0.05	
11	37+21	Storm Manhole	0.12	
12	37+37	Water Valve	0.15	
13	37+42	Sanitary Manhole	-0.05	
14	37+45	Water Valve	0.14	
15	37+63	Water Valve	0.00	
16	40+99	Water Valve	0.19	
17	41+00	Water Valve	0.12	
18	41+23	Water Valve	-0.02	
19	42+48	Sanitary Manhole	-0.08	
20	42+70	Water Valve	0.03	
21	43+06	Water Valve	0.14	
22	44+95	Water Valve	0.03	
23	44+96	Water Valve	0.01	
24	46+25	Sanitary Manhole	-0.05	
25	48+59	Water Valve	0.01	
26	50+17	Sanitary Manhole	-0.03	
27	50+52	Sanitary Manhole	0.00	
28	50+57	Storm Manhole	0.02	
29	50+89	Water Valve	0.19	
30	52+89	Water Valve	0.05	
31	53+11	Sanitary Manhole	-0.13	
32	53+30	Water Valve	0.18	
33	55+18	Manhole	0.20	Burried Manhole
34	55+26	Sanitary Manhole	-0.10	
35	55+47	Water Valve	0.02	
36	55+48	Water Valve	0.15	
37	56+35	Sanitary Manhole	-0.07	
38	56+53	Water Valve	0.06	
39	56+74	Water Valve	0.02	
40	58+59	Sanitary Manhole	-0.04	
41	59+32	Water Valve	-0.04	
42	59+72	Sanitary Manhole	0.29	Buried Manhole
43	59+74	Water Valve	0.11	
44	59+79	Storm Manhole	0.00	
45	59+96	Water Valve	-0.05	
46	62+16	Sanitary Manhole	0.00	
47	62+59	Storm Manhole	-0.32	
48	62+60	Manhole	0.25	Buried Manhole
49	62+73	Sanitary Manhole	0.29	Buried Manhole
50	62+93	Water Valve	0.01	
51	62+94	Storm Manhole	0.04	
52	63+24	Water Valve	-0.04	
53	65+56	Water Valve	0.02	
54	65+62	Storm Manhole	0.42	Buried Manhole
55	65+63	Sanitary Manhole	0.00	
56	66+43	Sanitary Manhole	-0.07	
57	66+52	Water Valve	-0.09	
58	66+54	Sanitary Manhole	-0.01	
59	66+57	Sanitary Manhole	0.10	
60	66+62	Storm Manhole	-0.06	
61	66+73	Water Valve	0.17	
62	67+57	Storm Manhole	0.00	
63	67+61	Sanitary Manhole	-0.06	
64	67+80	Water Valve	-0.03	

104-10

08-01-08

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment	Notes
65	67+85	Water Valve	-0.16	
66	69+41	Water Valve	-0.02	
67	69+62	Sanitary Manhole	-0.07	
68	69+65	Storm Manhole	0.30	Buried Manhole
69	69+82	Water Valve	0.07	
70	70+04	Communication Manhole	-0.09	
71	171+54	Storm Manhole	0.28	
72	171+68	Sanitary Manhole	0.32	Buried Manhole
73	171+83	Water Valve	-0.03	
74	171+84	Water Valve	-0.07	
75	173+53	Sanitary Manhole	0.29	Buried Manhole
76	173+56	Storm Manhole	0.00	
77	174+70	Sanitary Manhole	0.31	Buried Manhole
78	175+27	Sanitary Manhole	-0.02	
79	175+43	Water Valve	0.03	
80	175+66	Water Valve	0.01	
81	177+59	Sanitary Manhole	-0.08	
82	179+05	Water Valve	0.09	
83	179+25	Water Valve	0.01	
84	180+52	Sanitary Manhole	-0.07	
85	181+92	Communication Manhole	-0.11	
86	182+40	Sanitary Manhole	0.33	Buried Manhole
87	182+41	Sanitary Manhole	0.29	Buried Manhole
88	182+61	Water Valve	-0.07	
89	182+62	Water Valve	-0.11	
90	182+84	Water Valve	-0.04	
91	183+78	Sanitary Manhole	-0.02	
92	183+92	Manhole	0.22	Buried Manhole
93	184+08	Communication Manhole	-0.46	
94	184+17	Sanitary Manhole	-0.10	
95	184+26	Storm Manhole	-0.12	
96	185+29	Water Valve	-0.10	
97	186+98	Sanitary Manhole	-0.06	
98	189+68	Sanitary Manhole	-0.15	
99	192+73	Sanitary Manhole	0.29	Buried Manhole
100	194+51	Water Valve	0.08	
101	194+57	Water Valve	0.01	
102	195+08	Sanitary Manhole	0.29	Buried Manhole
103	197+04	Sanitary Manhole	0.07	
104	197+11	Water Valve	0.03	
105	197+30	Communication Manhole	0.03	
Total Manhole			56	
Total Water Valve Box Extension			**49**	

104-3a

10-17-17

SANITARY SEWER STRUCTURE

* Not a bid item

(1) Diameter or equivalent diameter

(2) UNCL = Unclassified Pipe VCP = Vitrified Clay Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

Location	Type	Size (1)	Kind Of Pipe (2)	Length New Const.	Bedding Class	Flow Line Elevations				Dimensions Lin. Ft.				Class 20	Remarks
										Total		Extensions			
		IN		LF		N	S	E	W	Lt.	Rt.	Lt.	Rt.	CY	
57+80.52	SW-301	48	VCP		32	613.66		615.69							
62+72.84	SW-301	48	VCP		32	612.38	612.38	612.38							
66+68.81	SW-301	48	VCP		32	611.6	611.6								
Total		3													

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PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	
30+70.70	30+89.80	R		18.8		
31+40.01	33+72.37	R		232.7		
34+70.38	36+81.55	R		216.7		
37+16.53	37+13.44	L		17.1		
37+50.65	37+48.74	L		17.9		
37+75.37	40+51.28	R		275.8		
40+70.29	40+74.85	R		12.3		
40+73.95	40+69.35	L		9.3		
40+74.87	40+74.78	L		1.4		
41+07.26	41+06.96	L		6.5		
41+07.84	41+09.81	R		8.4		
41+15.17	41+08.68	L		10.6		
41+36.18	42+33.99	R		97.7		
43+53.82	42+87.80	L		65.9		
44+56.81	44+43.98	L		12.7		
45+31.97	45+70.07	R		37.8		
45+93.91	46+07.52	R		13.4		
46+12.61	46+70.16	R		57.4		
46+93.55	47+11.82	R		18.1		
47+23.57	45+19.01	L		204.4		
47+91.20	48+33.07	R		41.8		
48+05.59	47+44.82	L		60.9		
48+58.13	49+51.95	R		93.6		
49+55.69	48+30.73	L		124.8		
49+68.87	49+77.55	R		14.1		
49+78.62	49+73.40	R		19.3		
48+89.01	50+05.02	R		28.8		
49+99.79	50+07.32	L		13.9		
50+09.56	50+52.78	R		57.9		
50+51.64	50+50.20	L		2.9		
50+64.15	50+58.03	L		6.8		
51+05.51	52+85.44	R		178.3		
51+98.47	51+06.27	L		90.6		
53+04.61	53+06.43	R		3.2		
53+40.29	53+42.43	R		3.6		
53+58.22	52+30.43	L		127.5		
53+64.54	53+84.33	R		19.6		
53+90.16	54+66.87	R		76.3		
55+02.75	53+86.08	L		116.5		
55+18.30	55+10.64	L		11.5		
55+19.37	55+20.05	L		18.8		
55+55.55	55+55.01	L		19.3		
55+66.02	55+56.15	L		15.0		
55+83.58	55+99.99	R		16.1		
56+21.35	56+25.86	R		5.9		
56+59.94	56+63.17	R		7.1		
56+86.04	57+87.62	R		101.3		
56+87.85	55+73.51	L		114.2		
58+20.87	59+31.60	R		110.6		
58+51.26	58+48.85	L		10.3		
59+44.29	59+49.07	R		9.6		
59+80.50	59+84.65	R		8.0		
60+13.76	59+39.93	L		73.7		
60+49.65	60+42.41	L		7.0		
61+40.56	62+55.88	R		115.2		
61+64.13	60+88.56	L		75.3		
62+66.36	62+68.63	R		4.0		
63+01.80	63+04.49	R		5.0		
63+13.94	64+03.24	R		89.4		
64+10.00	63+74.17	L		35.7		
64+85.32	64+32.82	L		52.2		
65+28.54	65+07.82	L		40.4		

100-19
04-19-16

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	
65+59.36	65+59.55	R		4.4		
65+75.39	65+51.36	L		23.9		
65+90.93	65+92.16	R		4.6		
66+16.08	67+34.41	R		118.2		
67+55.44	67+57.15	R		2.7		
67+93.84	67+95.72	R		3.0		
68+04.28	69+48.37	R		144.2		
69+58.30	69+61.52	R		4.8		
70+14.66	70+28.06	R		13.2		
171+58.39	171+54.58	L		23.5		
171+90.36	171+89.38	L		2.2		
172+25.15	173+43.48	R		121.3		
172+30.97	171+94.91	L		10.9		
173+42.64	172+14.51	L		131.4		
173+66.41	174+35.99	R		73.5		
174+54.58	175+24.87	R		70.0		
175+18.52	175+10.63	L		9.7		
175+28.99	175+69.45	R		40.3		
175+50.30	175+48.96	L		7.9		
175+58.29	175+54.35	L		5.0		
175+72.72	177+49.84	R		178.6		
177+03.80	175+62.95	L		143.2		
177+54.51	177+55.35	R		2.9		
177+80.99	177+81.94	R		5.2		
177+81.40	177+25.88	L		61.8		
177+85.84	178+56.43	R		72.0		
178+58.58	179+11.25	R		52.4		
178+72.30	178+58.51	L		14.7		
178+78.46	178+77.93	L		2.5		
179+08.07	179+07.24	L		2.3		
179+13.64	180+64.01	R		150.2		
180+63.17	179+13.52	L		152.5		
180+67.39	181+45.83	R		78.1		
181+50.13	182+64.46	R		114.0		
182+33.64	180+85.71	L		151.4		
182+40.09	182+39.05	L		5.3		
182+67.73	182+68.51	L		3.8		
182+69.91	183+67.85	R		99.1		
183+72.40	183+74.14	R		9.8		
184+00.28	184+02.97	R		6.0		
184+08.34	185+30.47	R		122.8		
184+12.09	182+74.93	L		138.0		
185+57.09	188+18.81	R		263.4		
185+76.37	184+16.13	L		160.0		
188+13.76	186+24.34	L		189.1		
188+99.86	190+14.70	R		121.1		
189+55.49	188+34.45	L		122.1		
189+61.99	189+61.06	L		2.9		
189+88.34	189+87.35	L		3.4		
190+47.56	192+78.31	R		239.0		
190+84.13	189+92.96	L		92.2		
193+11.03	193+65.14	R		59.9		
194+17.65	196+41.34	R		226.2		
195+20.66	194+23.25	L		97.3		
195+96.17	195+25.62	L		70.6		
196+36.03	196+00.46	L		35.2		
196+50.31	196+56.47	R		7.3		
196+63.98	196+66.36	R		3.9		
197+18.74	197+19.29	R		2.0		
197+22.70	197+39.33	R		23.6		
Total				7462.0		

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100-36

10-16-18

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

Location Station	Side	Installation	Maintenance	Removal	Remarks
		LF	EACH	EACH	
31+49.18	R	8	1	1	
31+60.63	L	8	1	1	
33+50.67	R	8	1	1	
34+89.15	L	8	1	1	
35+12.51	R	8	1	1	
37+72.53	L	8	1	1	
37+72.86	R	8	1	1	
41+32.79	L	8	1	1	
41+32.81	R	8	1	1	
43+28.87	R	8	1	1	
43+55.85	L	8	1	1	
46+09.82	R	8	1	1	
46+12.32	L	8	1	1	
49+53.88	R	8	1	1	
51+12.44	L	8	1	1	
51+12.60	R	8	1	1	
55+21.45	L	20	1	1	
59+19.06	L	8	1	1	
59+21.17	R	8	1	1	
62+38.99	L	8	1	1	
62+45.17	R	8	1	1	
62+75.55	R	8	1	1	
62+95.71	R	8	1	1	
66+29.38	L	20	1	1	
66+59.11	R	8	1	1	
67+14.49	L	8	1	1	
67+65.47	R	8	1	1	
68+18.01	R	8	1	1	
171+92.34	R	8	1	1	
173+62.10	R	20	1	1	
174+70.83	L	8	1	1	
174+70.83	R	8	1	1	
175+81.47	L	8	1	1	
177+60.25	R	8	1	1	
177+76.05	R	8	1	1	
178+10.37	R	8	1	1	
184+23.26	R	8	1	1	
187+91.42	R	8	1	1	
189+37.64	L	8	1	1	
189+58.56	R	8	1	1	
190+11.43	L	8	1	1	
196+18.83	R	8	1	1	
TOTAL		372	42	42	

100-37

04-18-17

GRATE INTAKE SEDIMENT FILTER BAG

Possible Detail: 570-7

Location Station	Side	Installation	Maintenance	Removal	Remarks
		EACH	EACH	EACH	
66+29.26	LT	1	1	1	
Totals		1	1	1	

Plot Date: 3/31/2020 8:13 AM
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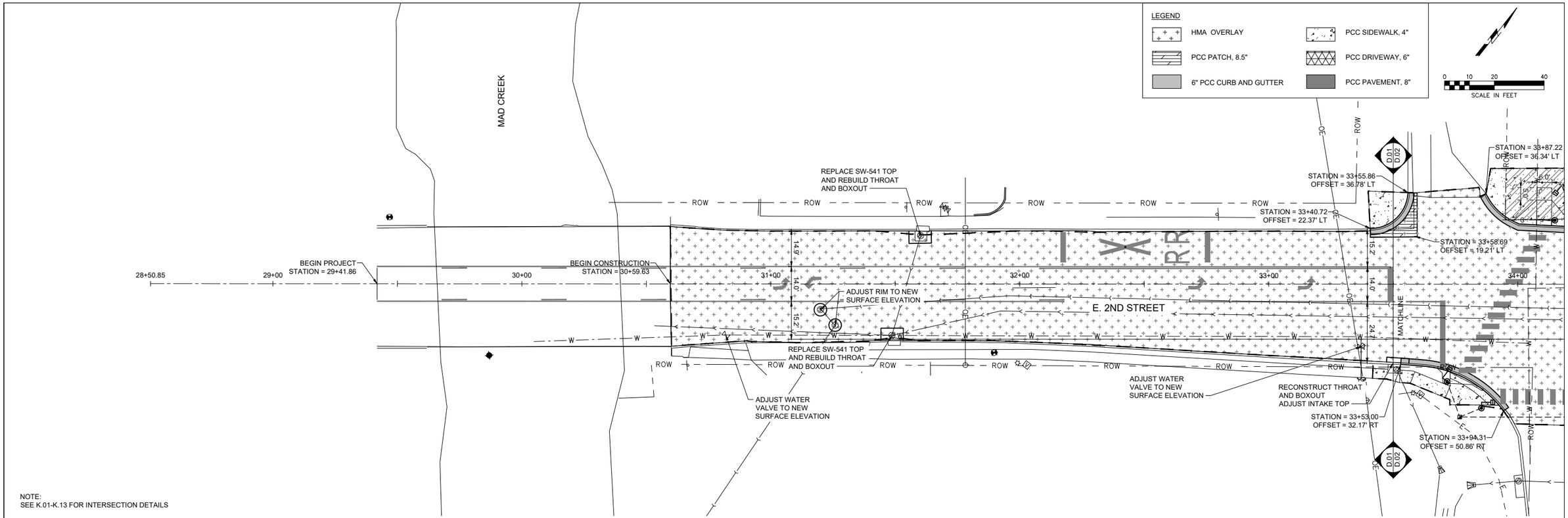
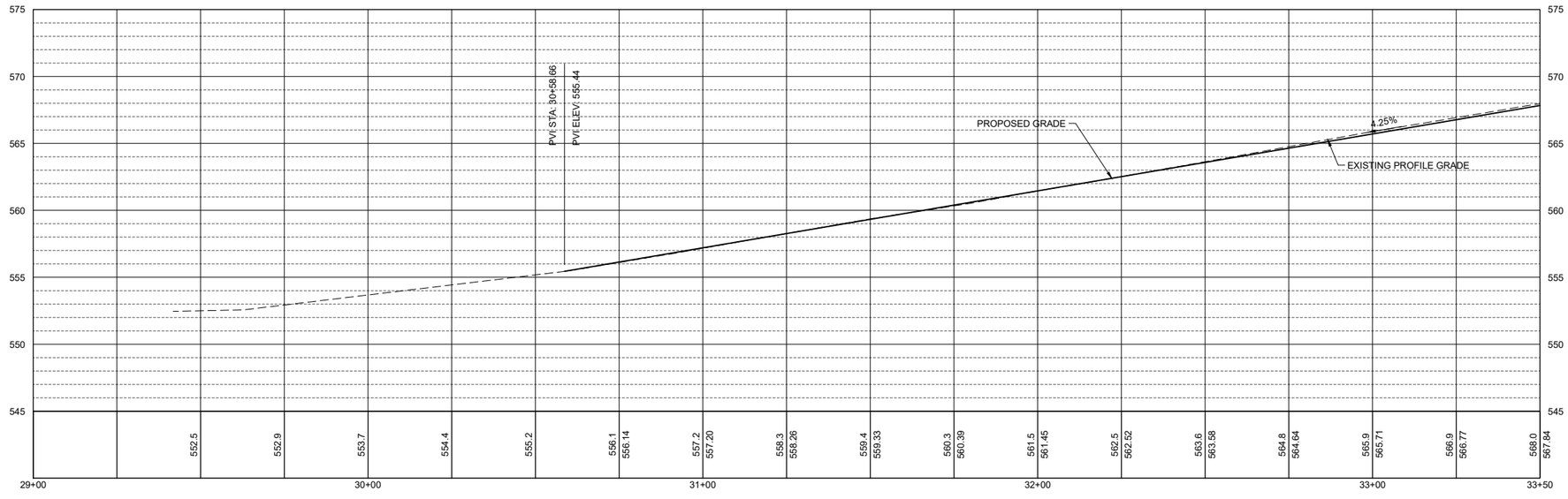


NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

ROADWAY PAVING PLAN - STA: 29+00 TO 33+50

1" = 40'



ROADWAY CL PROFILE

H: 1" = 40' I V: 1" = 10'

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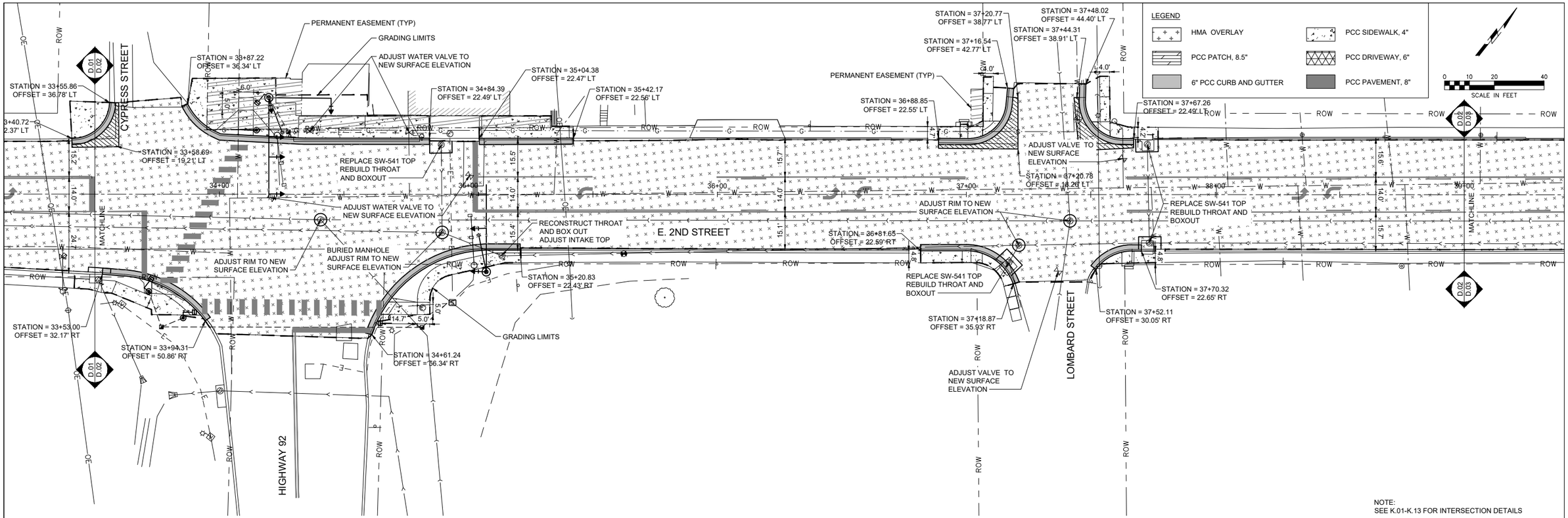
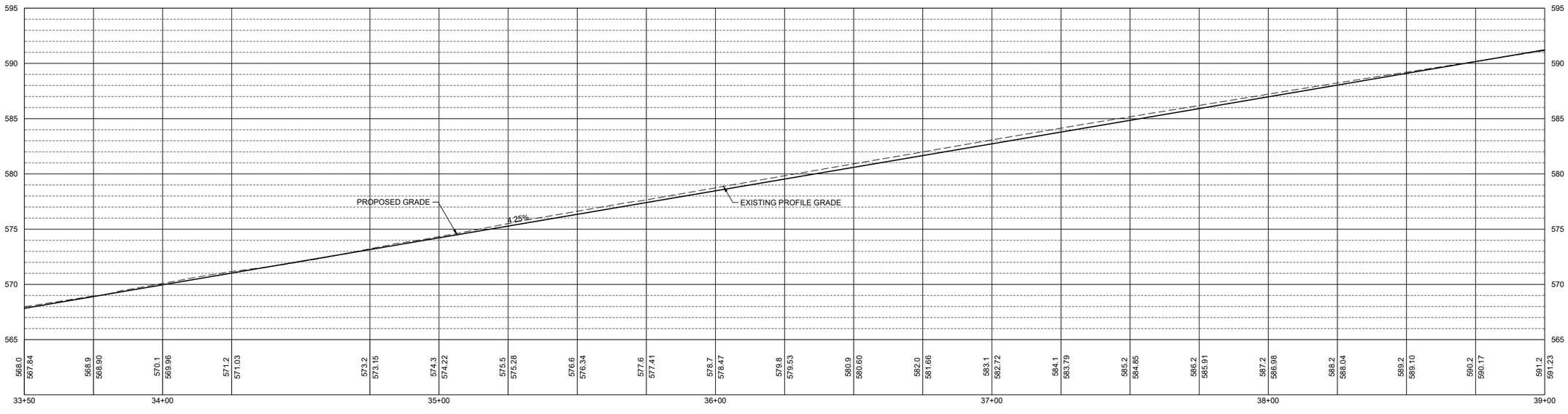


NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

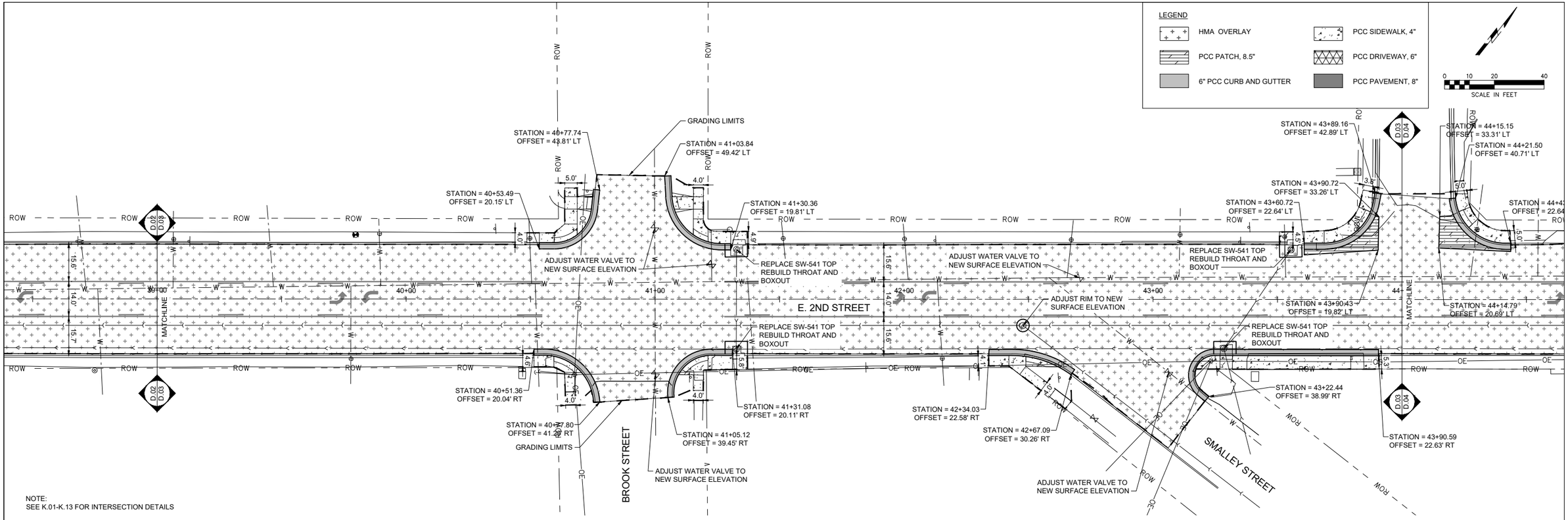
ROADWAY PAVING PLAN - STA: 33+50 TO 39+00

1" = 40'



ROADWAY CL PROFILE

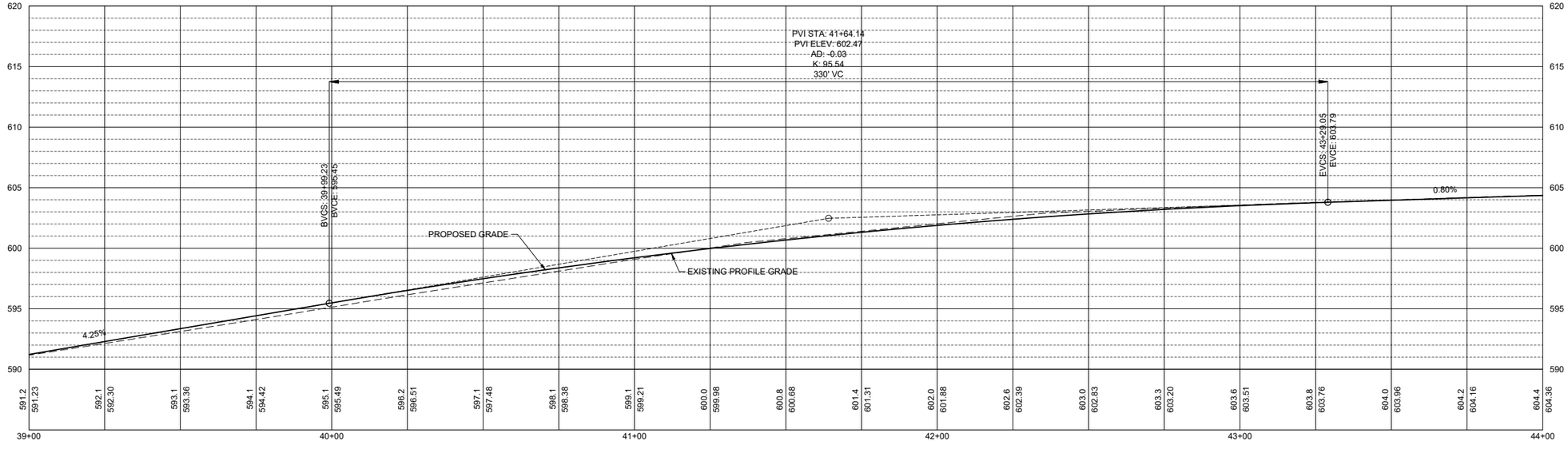
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

ROADWAY PAVING PLAN - STA: 39+00 TO 44+00

1" = 40'



ROADWAY CL PROFILE

H: 1" = 40' I V: 1" = 10'

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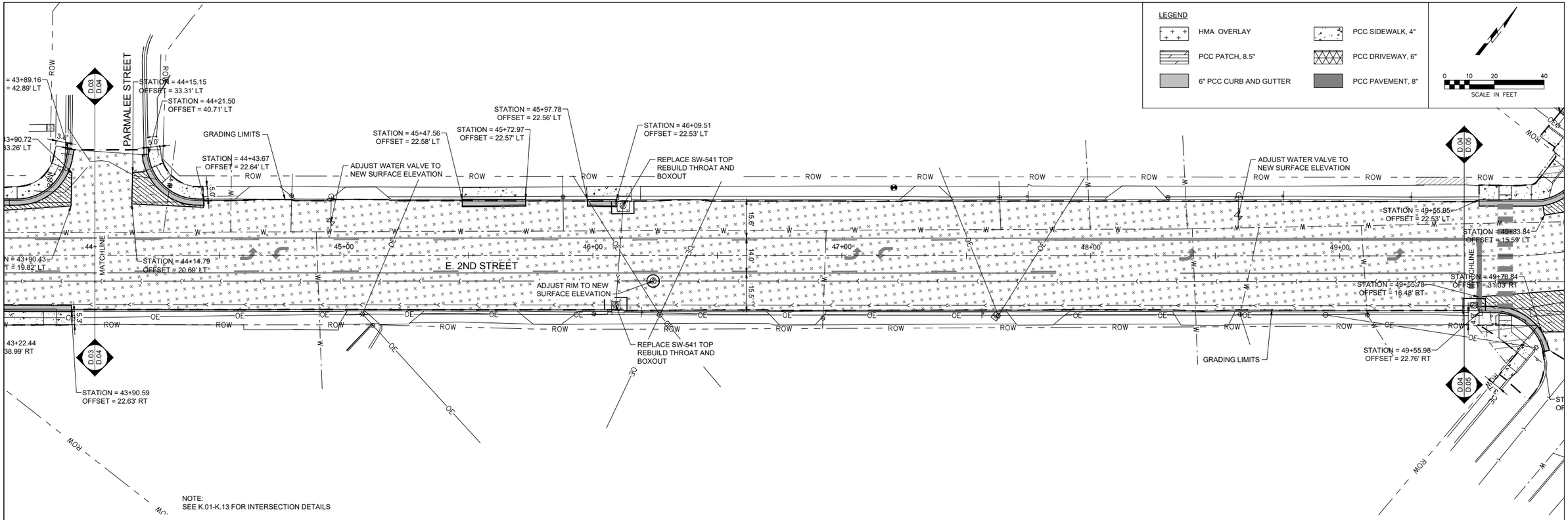
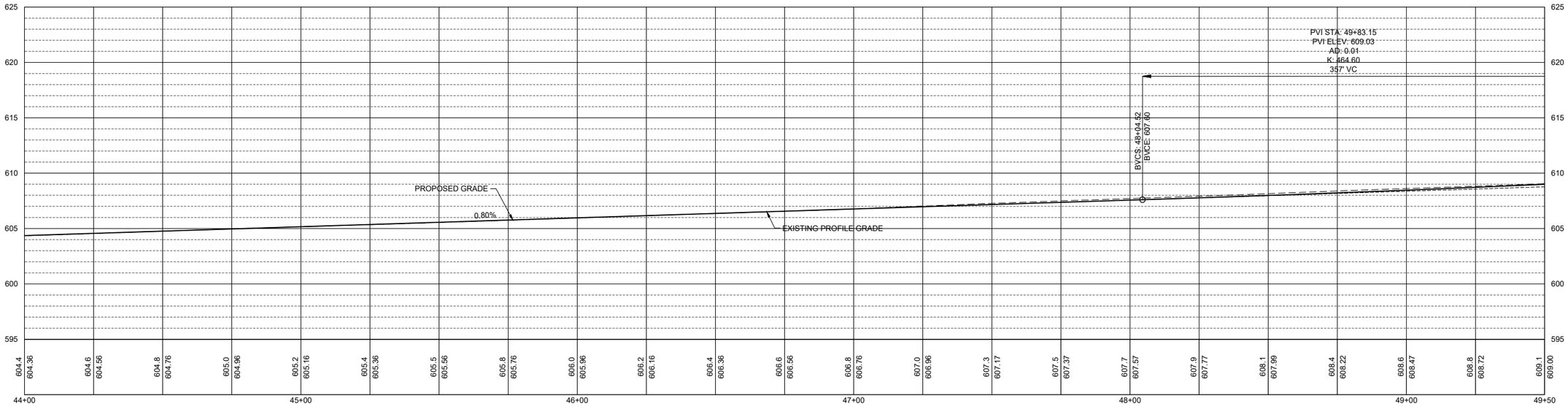


NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

ROADWAY PAVING PLAN - STA: 44+00 TO 49+50

1" = 40'



ROADWAY CL PROFILE

H: 1" = 40' I V: 1" = 10'

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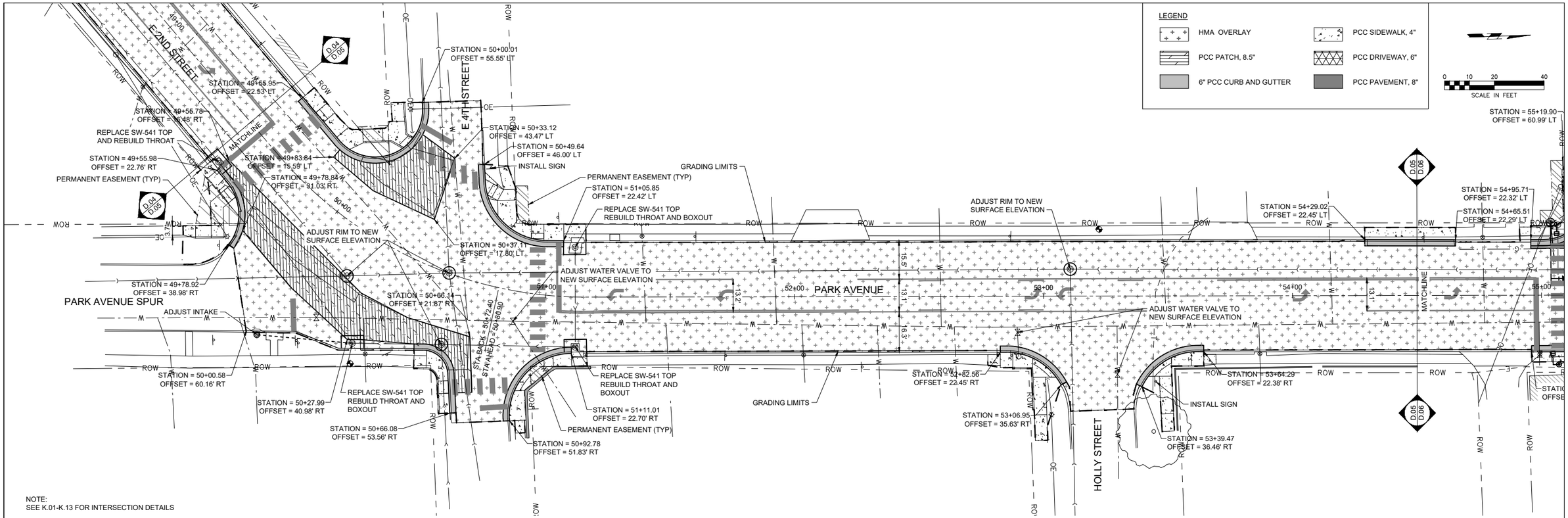
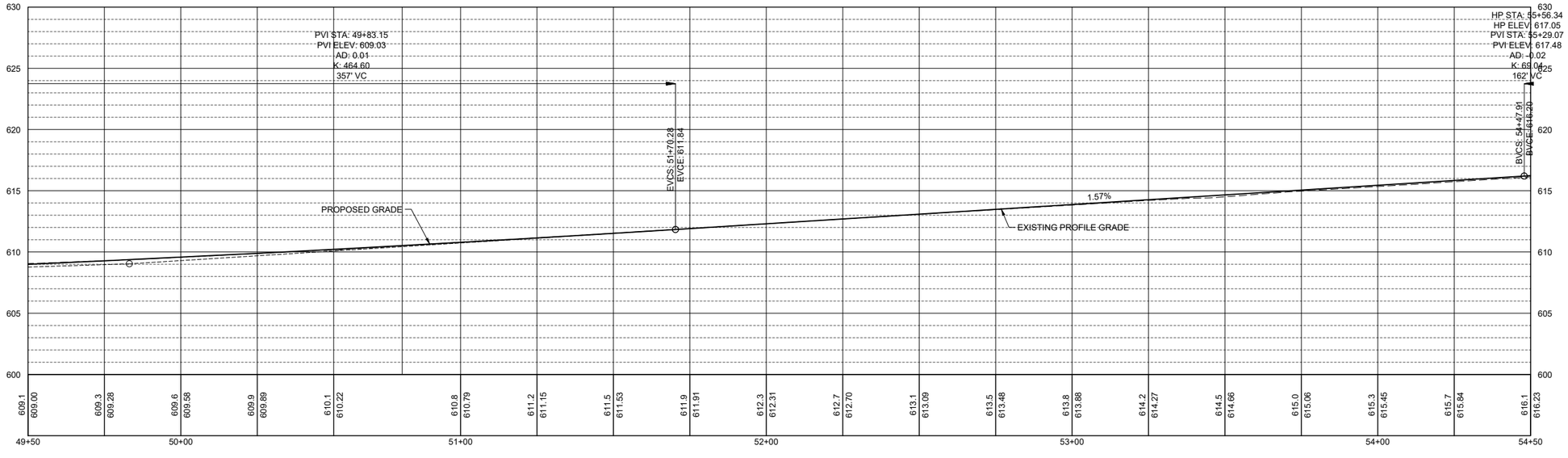


NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

ROADWAY PAVING PLAN - STA: 49+50 TO 54+50

1" = 40'



ROADWAY CL PROFILE

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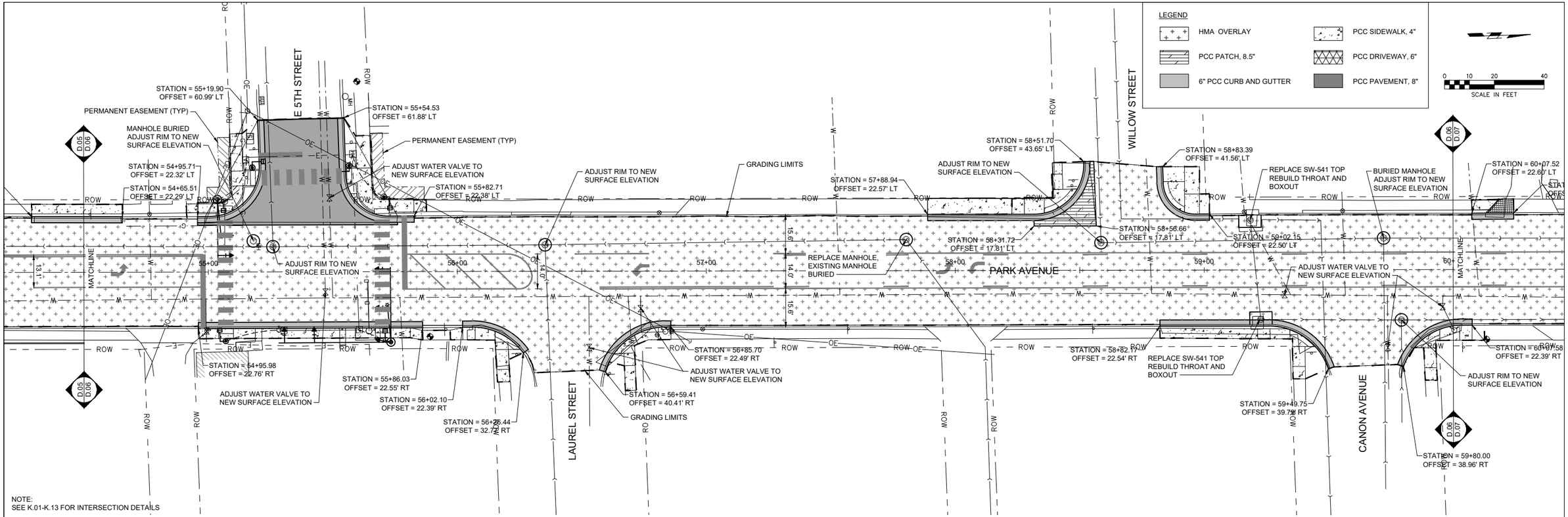
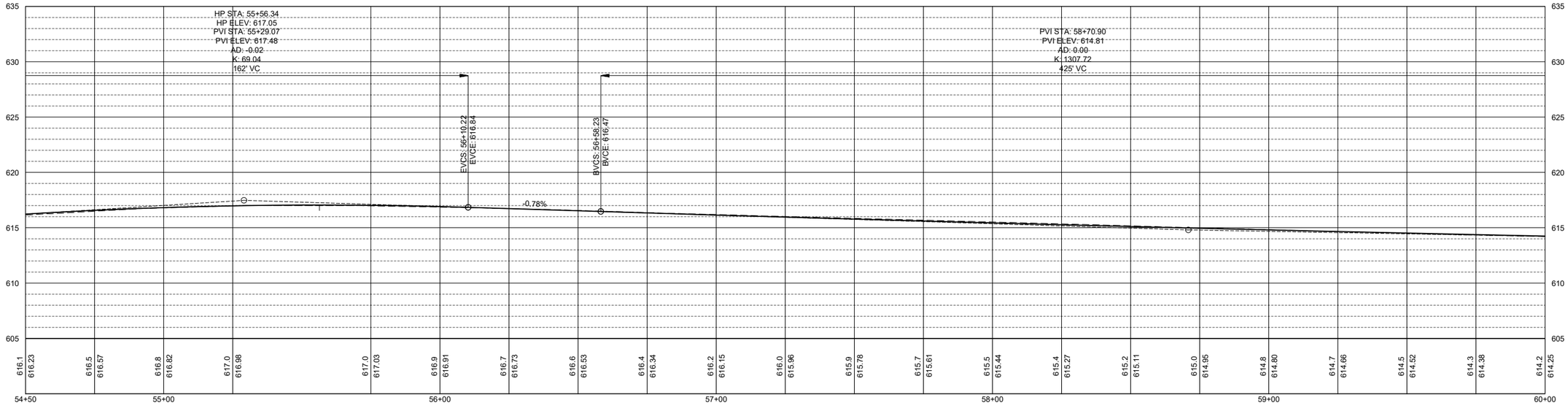


NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

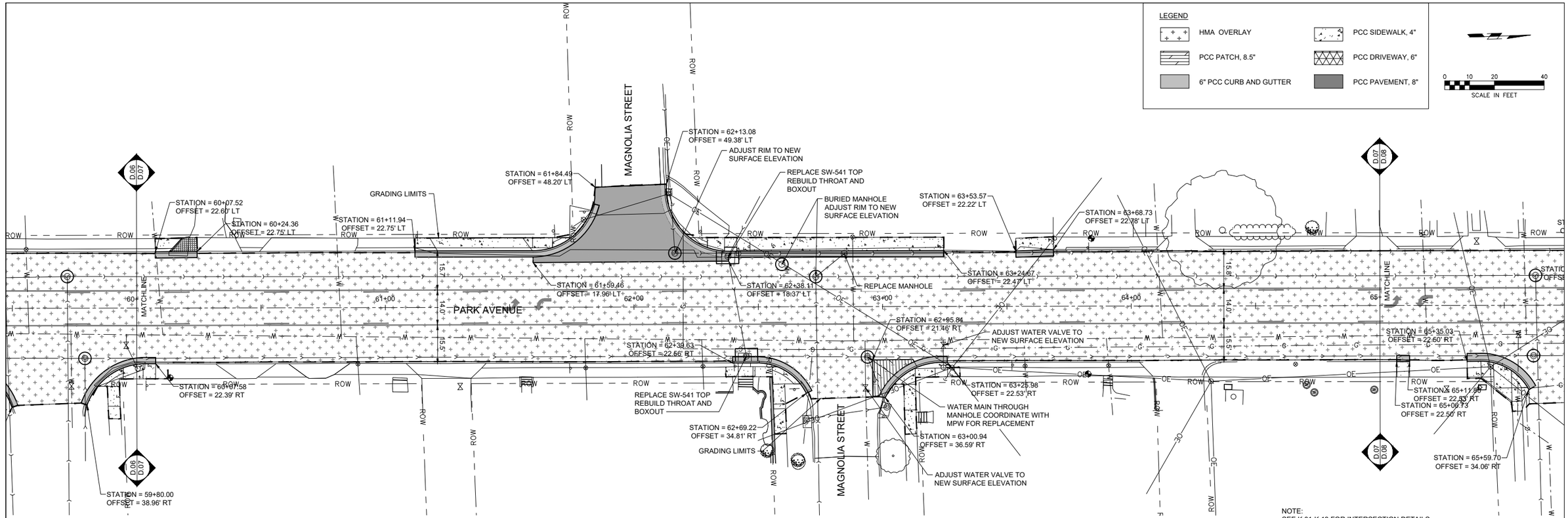
ROADWAY PAVING PLAN - STA: 54+50 TO 60+00

1" = 40'



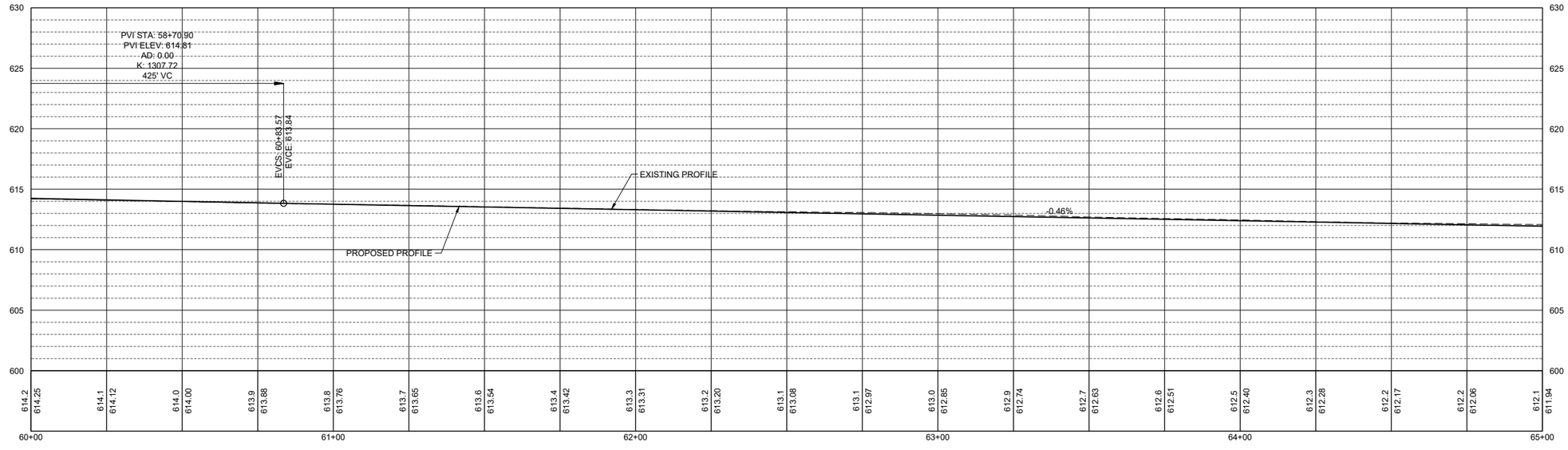
ROADWAY CL PROFILE

H: 1" = 40' I V: 1" = 10'



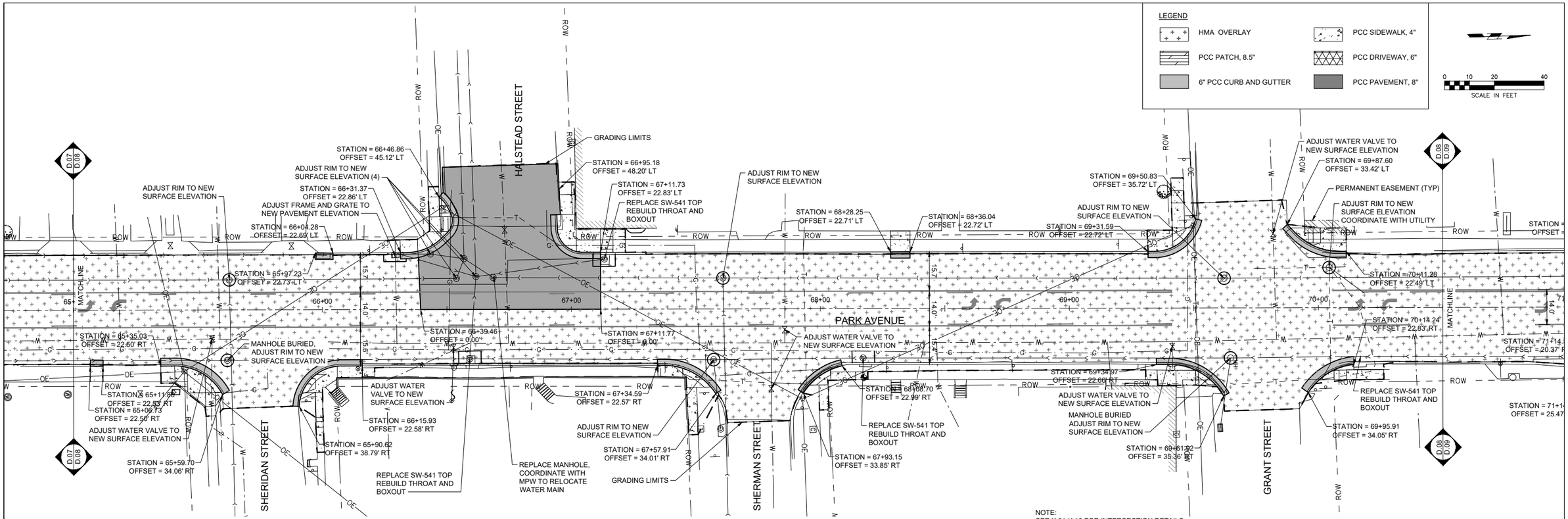
ROADWAY PAVING PLAN - STA: 60+00 TO 65+00

1" = 40'



ROADWAY CL PROFILE

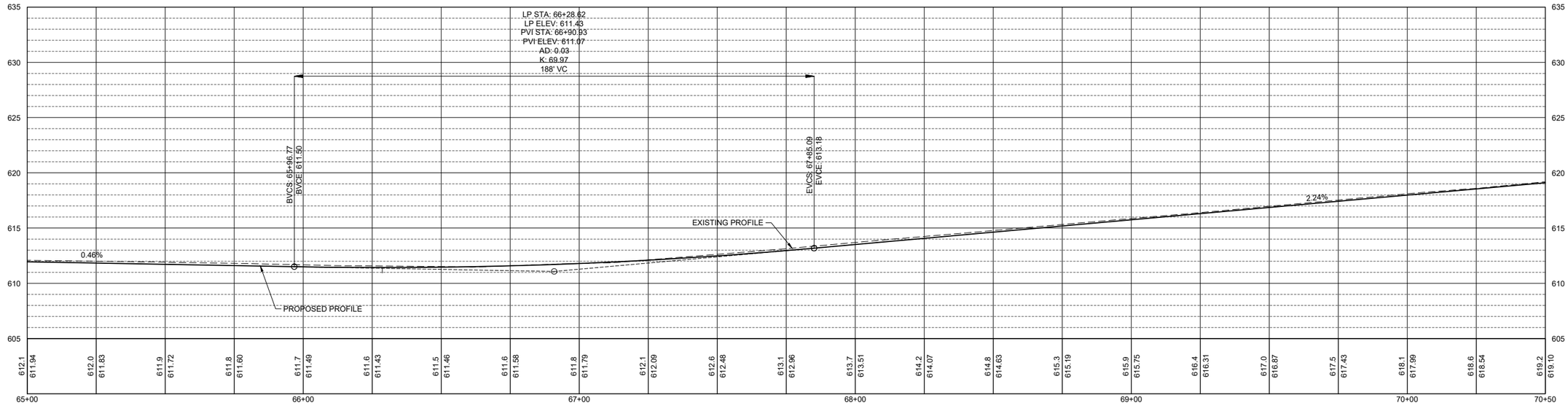
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

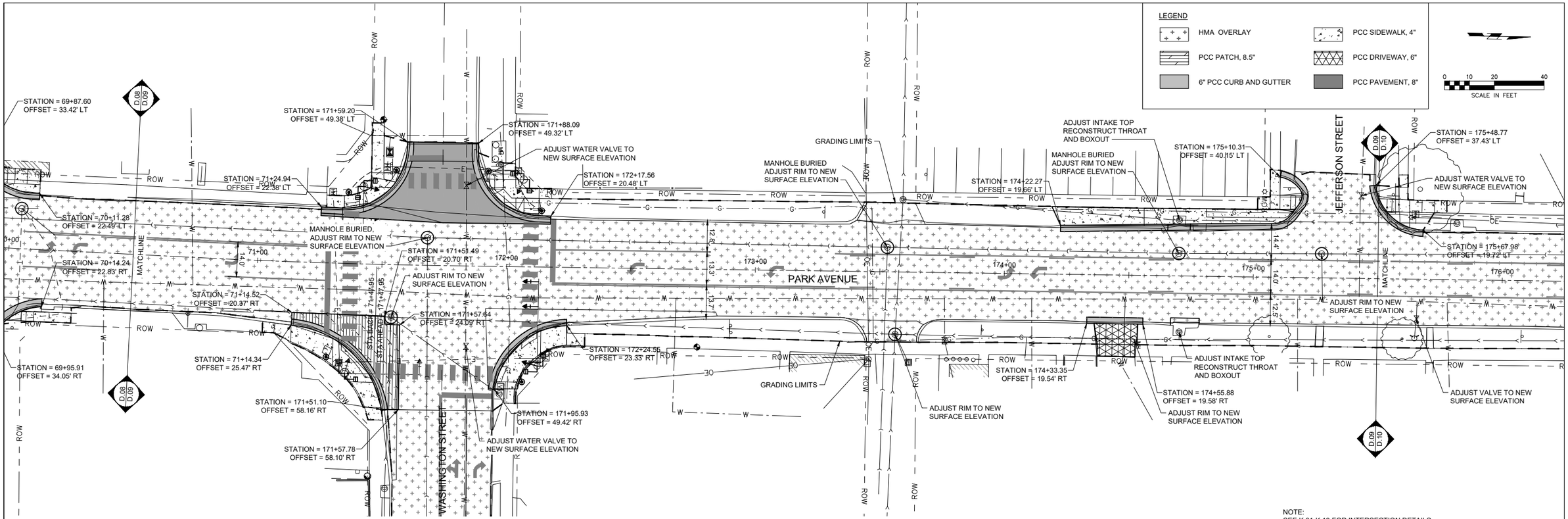
ROADWAY PAVING PLAN - STA: 65+00 TO 70+50

1" = 40'



ROADWAY CL PROFILE

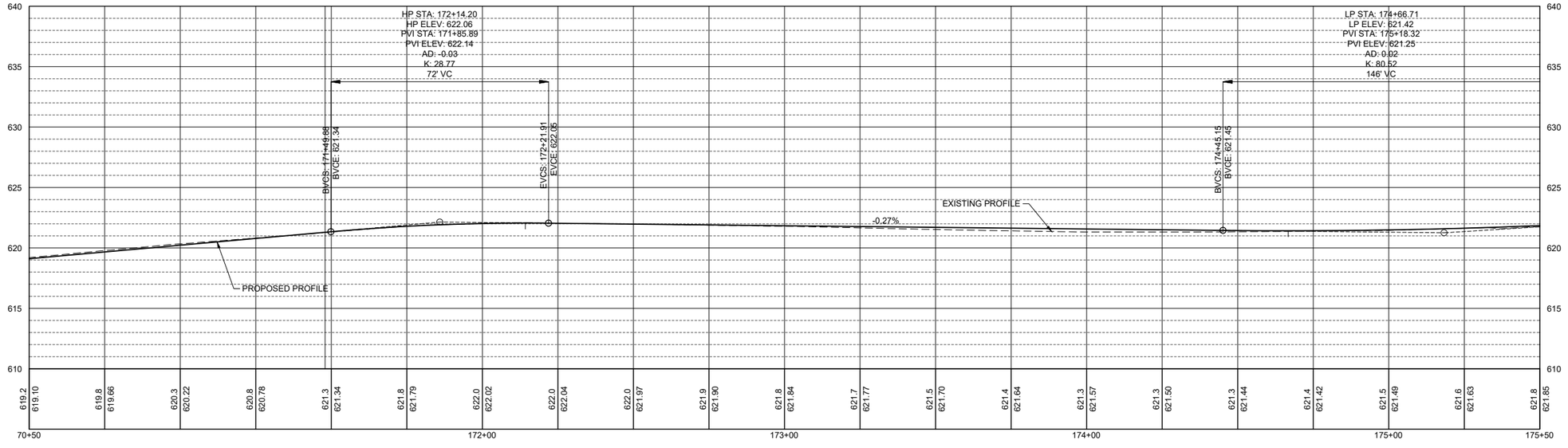
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

ROADWAY PAVING PLAN - STA: 70+50 TO 175+50

1" = 40'



ROADWAY CL PROFILE

H: 1" = 40' I V: 1" = 10'

Plot Date: 3/31/2020 8:18 AM
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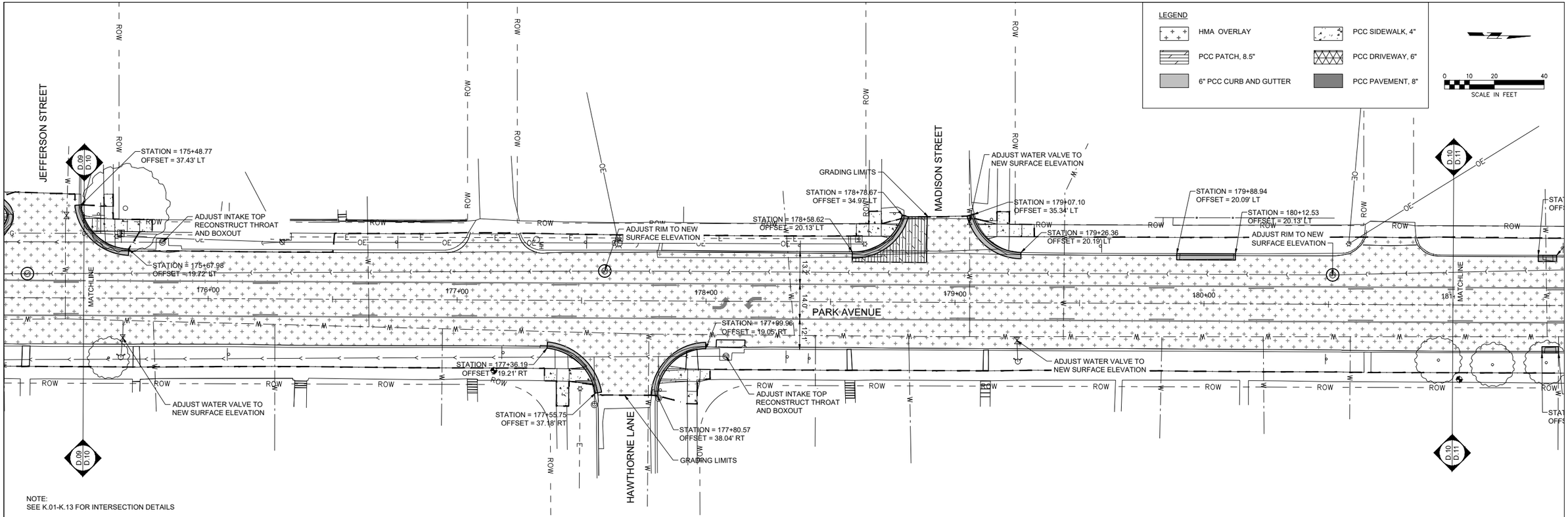
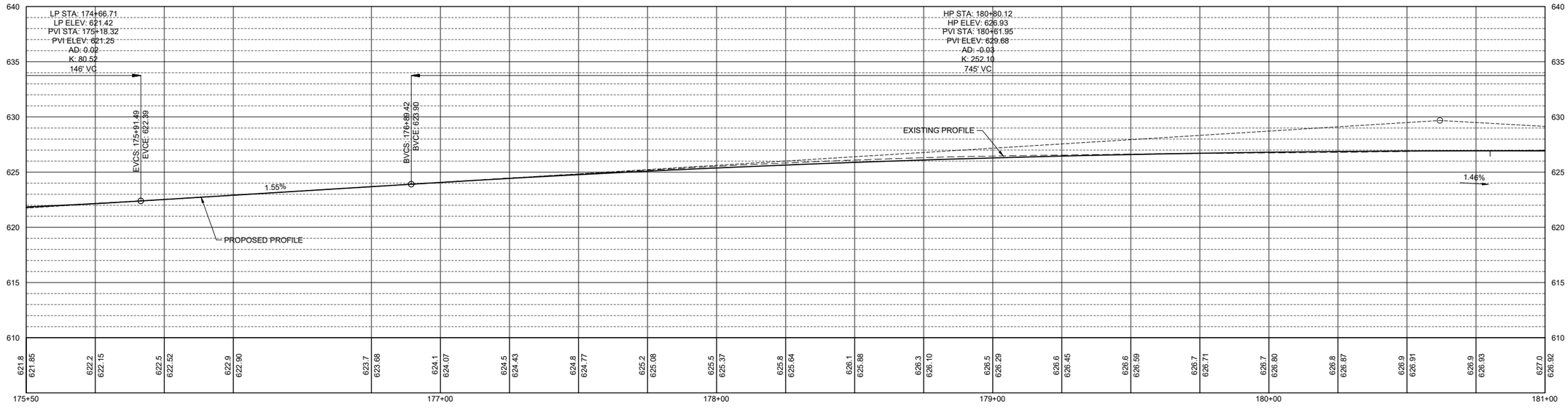


NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

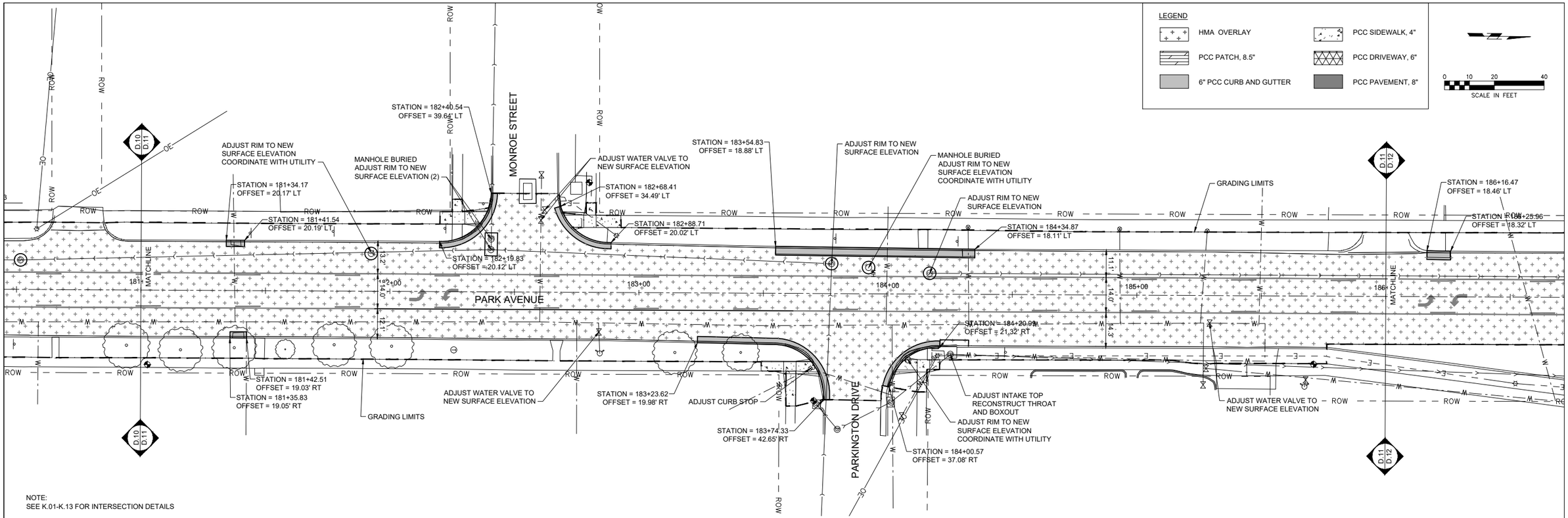
ROADWAY PAVING PLAN - STA: 175+50 TO 181+00

1" = 40'



ROADWAY CL PROFILE

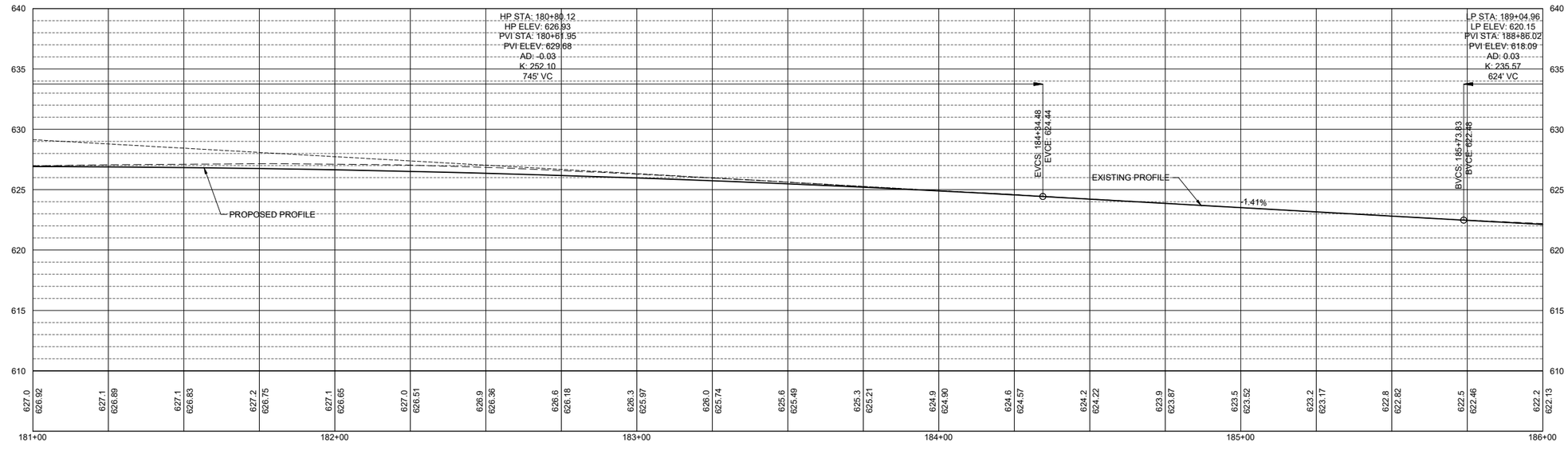
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

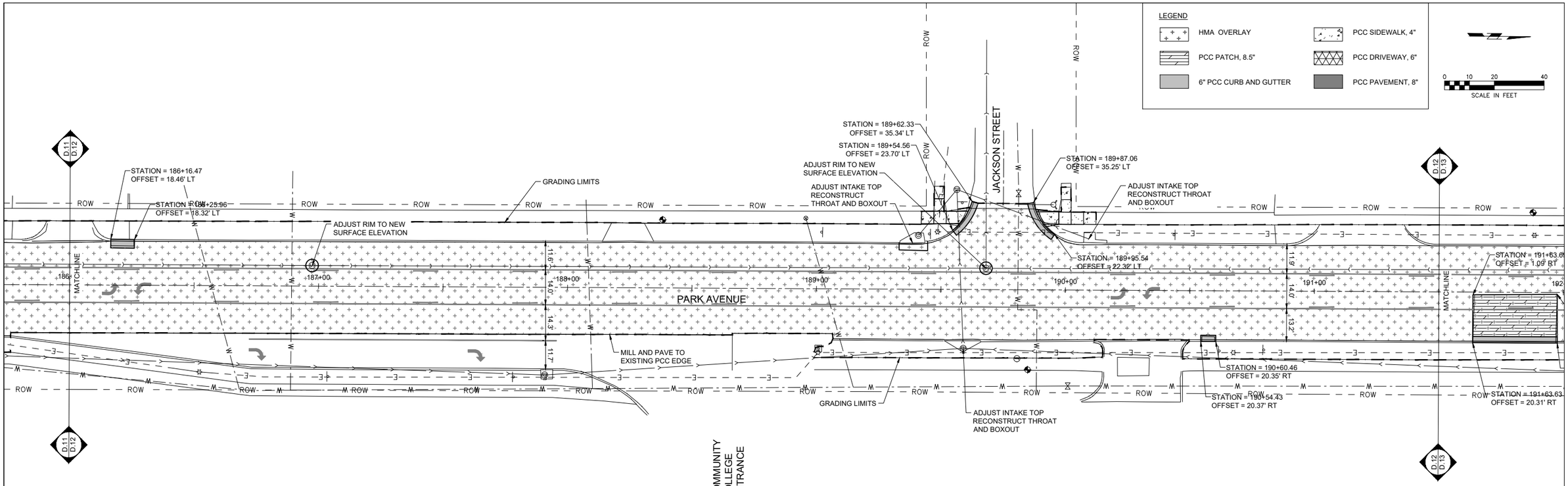
ROADWAY PAVING PLAN - STA: 181+00 TO 186+00

1" = 40'



ROADWAY CL PROFILE

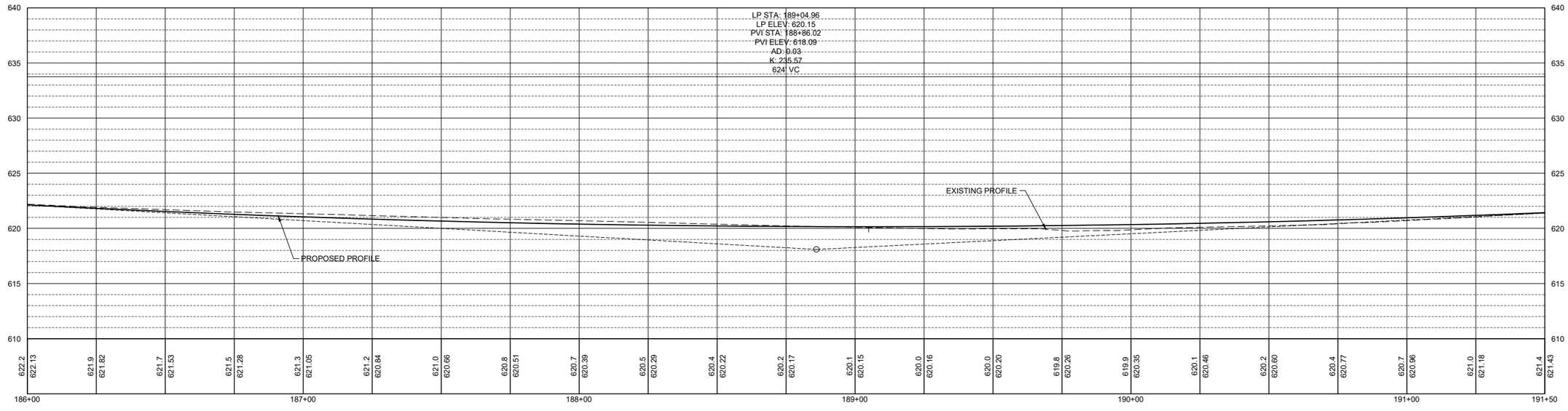
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

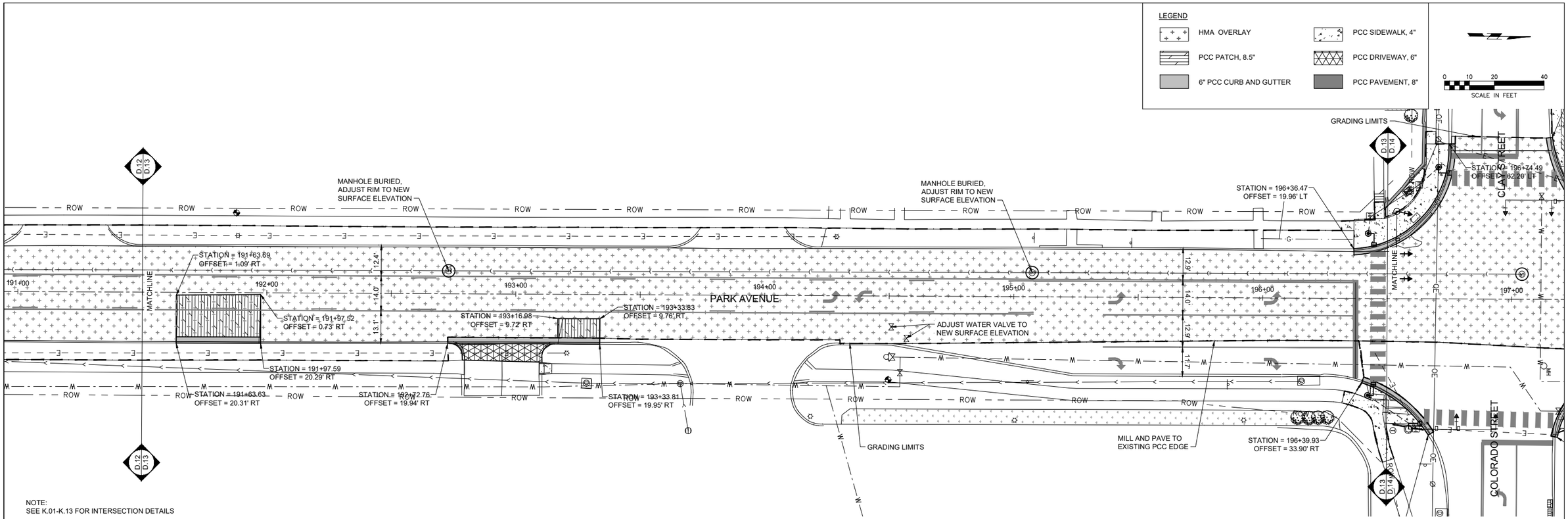
ROADWAY PAVING PLAN - STA: 186+00 TO 191+50

1" = 40'



ROADWAY CL PROFILE

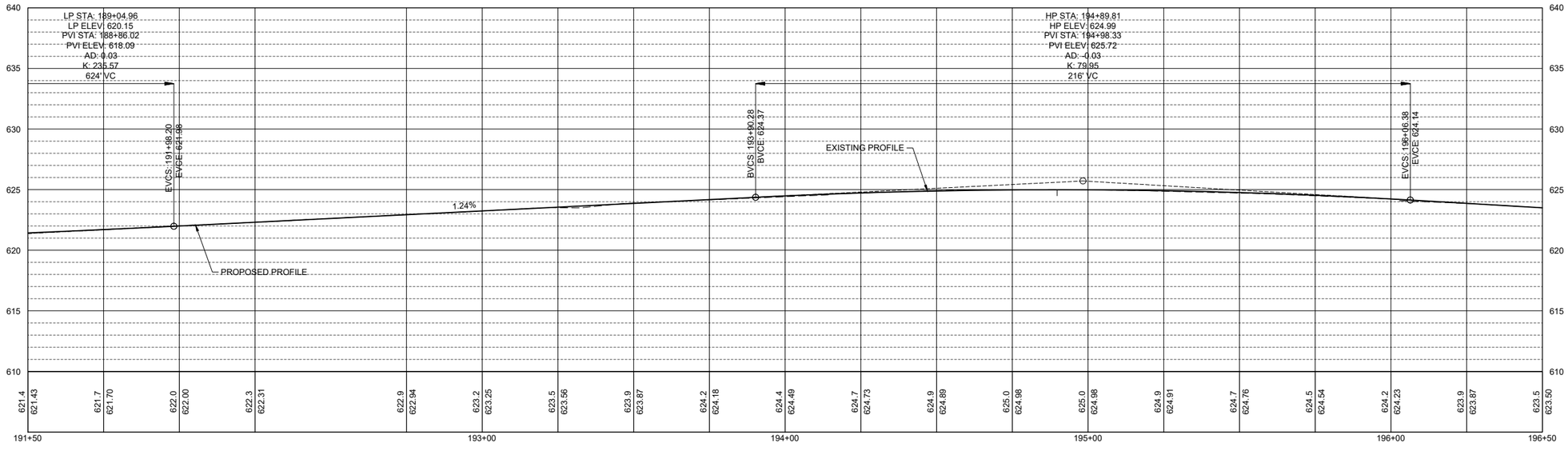
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS

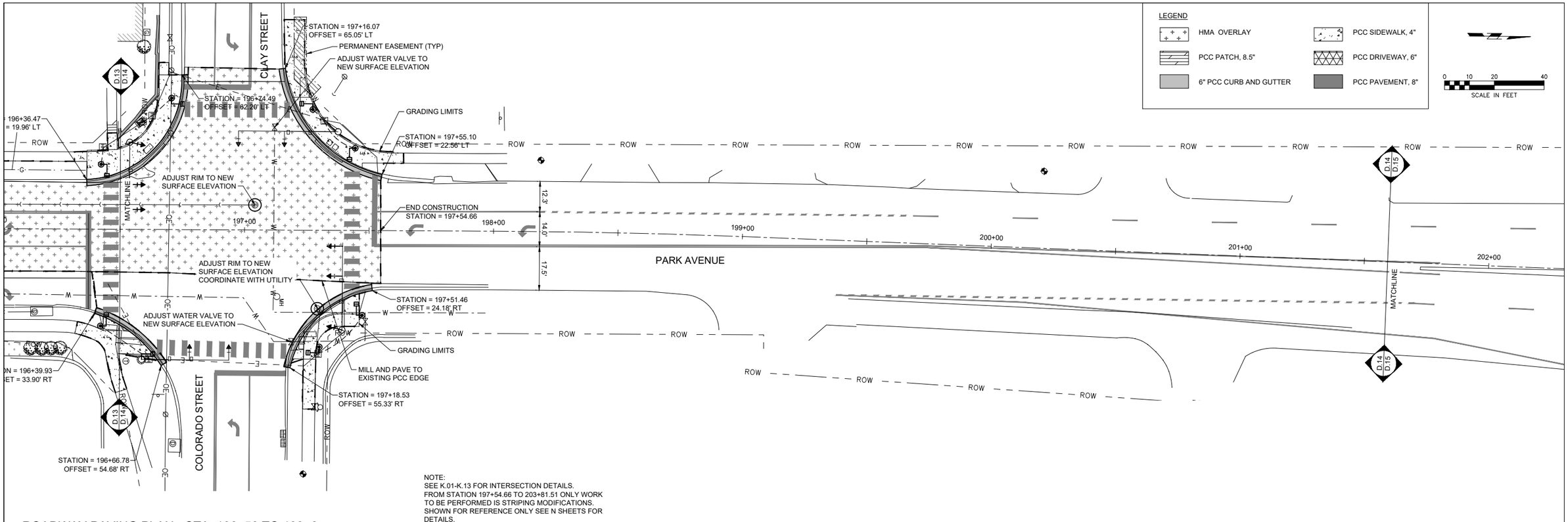
ROADWAY PAVING PLAN - STA: 191+50 TO 196+50

1" = 40'



ROADWAY CL PROFILE

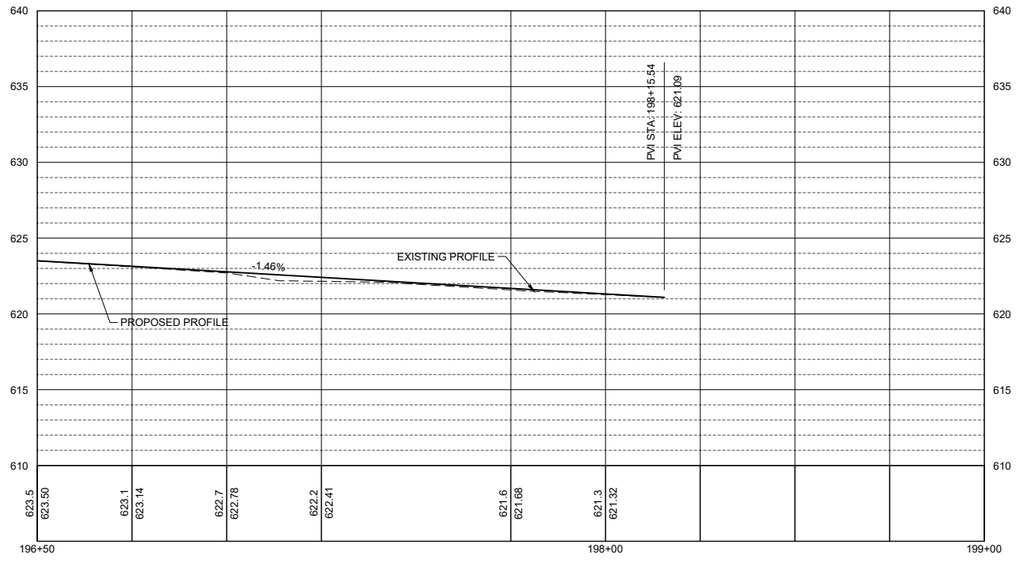
H: 1" = 40' I V: 1" = 10'



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS.
FROM STATION 197+54.66 TO 203+81.51 ONLY WORK TO BE PERFORMED IS STRIPING MODIFICATIONS. SHOWN FOR REFERENCE ONLY SEE N SHEETS FOR DETAILS.

ROADWAY PAVING PLAN - STA: 196+50 TO 199+0

1" = 40'



ROADWAY CL PROFILE

H: 1" = 40' I V: 1" = 10'

Plot Date: 3/31/2020 8:20 AM
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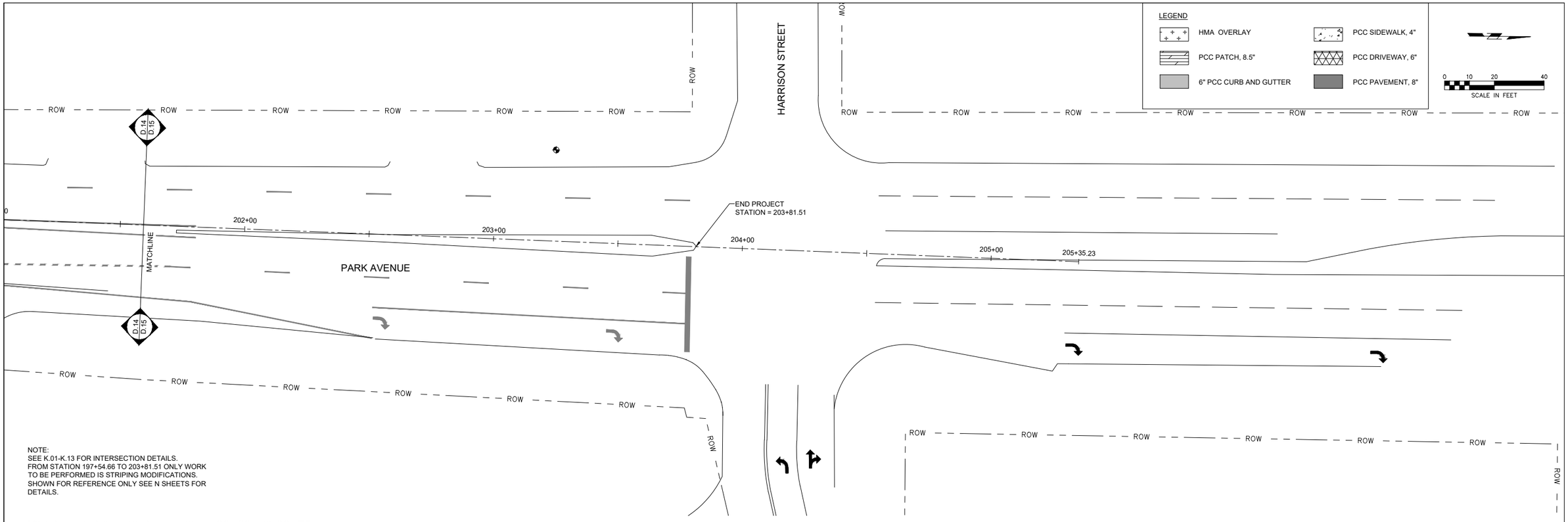
SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE + ENGINEERING	222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	MAINLINE PLAN AND PROFILE	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER D.14



NOTE:
SEE K.01-K.13 FOR INTERSECTION DETAILS.
FROM STATION 197+54.66 TO 203+81.51 ONLY WORK TO BE PERFORMED IS STRIPING MODIFICATIONS. SHOWN FOR REFERENCE ONLY SEE N SHEETS FOR DETAILS.

ROADWAY PAVING PLAN - STA: 83+00 TO 86+75

1" = 40'

Plot Date: 3/31/2020 8:20 AM
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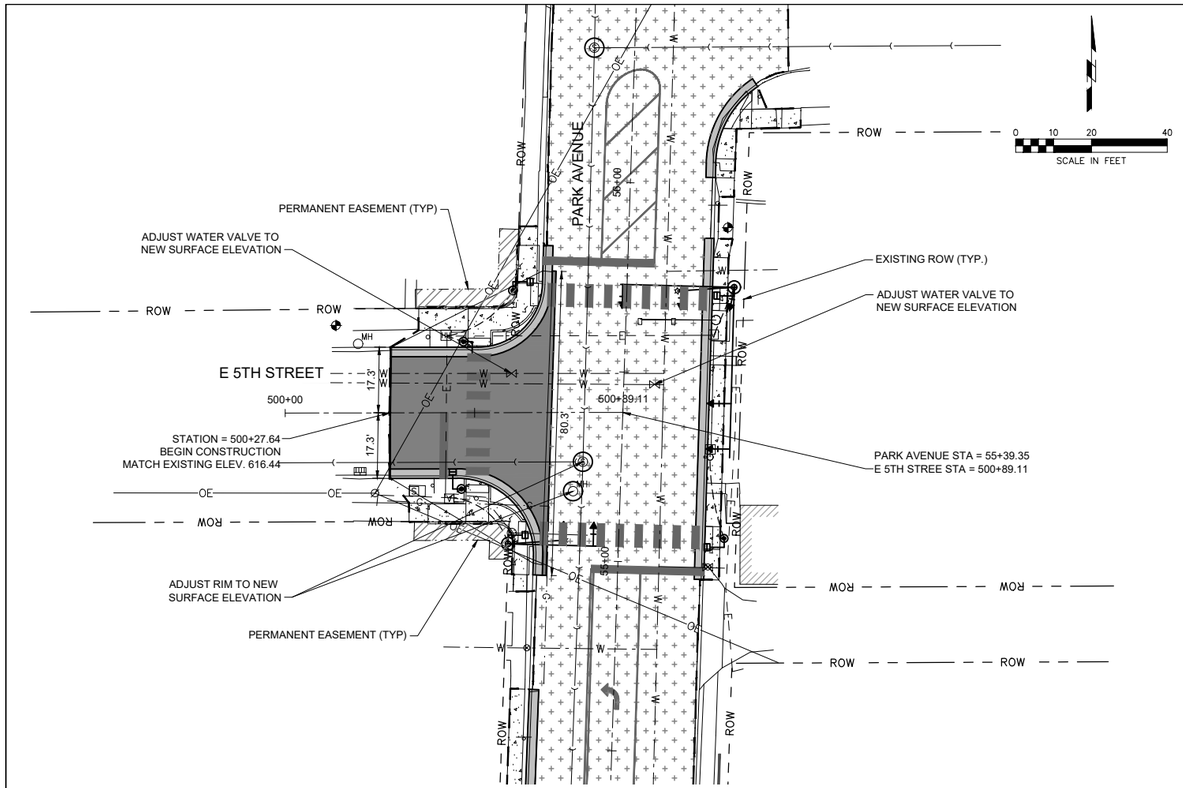
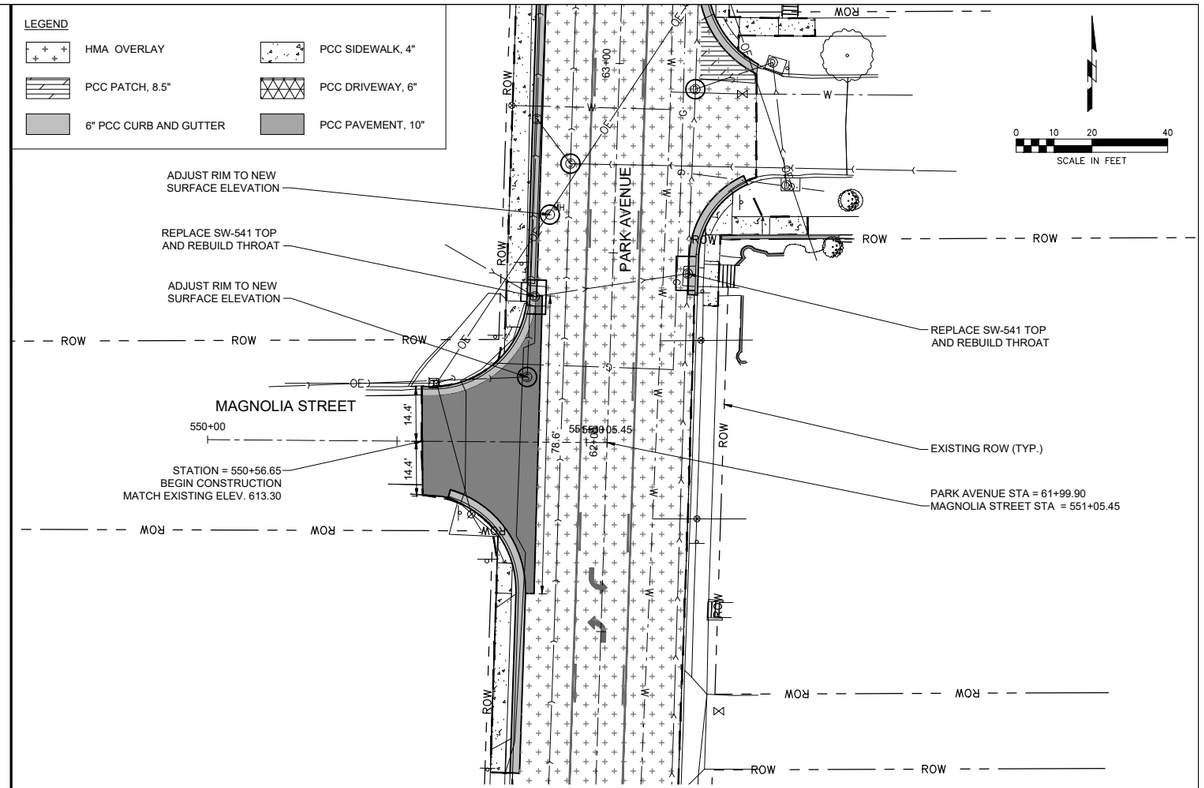


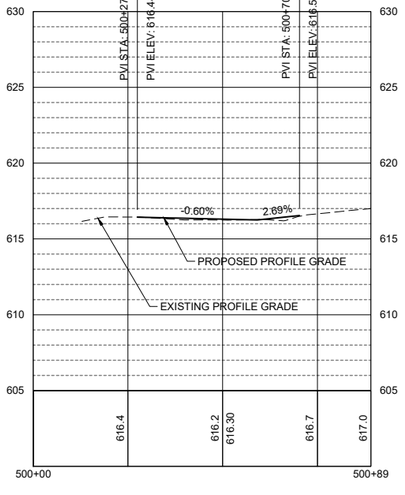
E 5TH STREET PAVING PLAN

1" = 20'



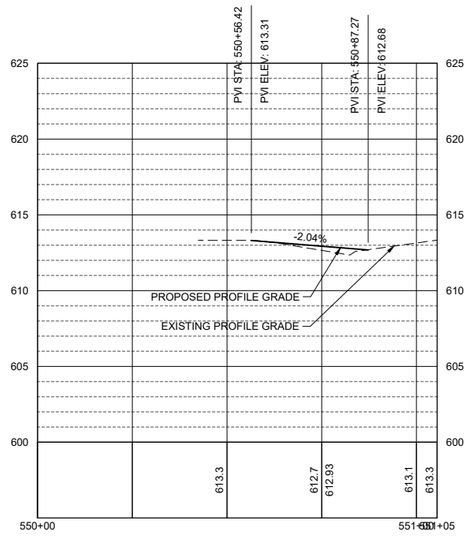
MAGNOLIA STREET PAVING PLAN

1" = 20'



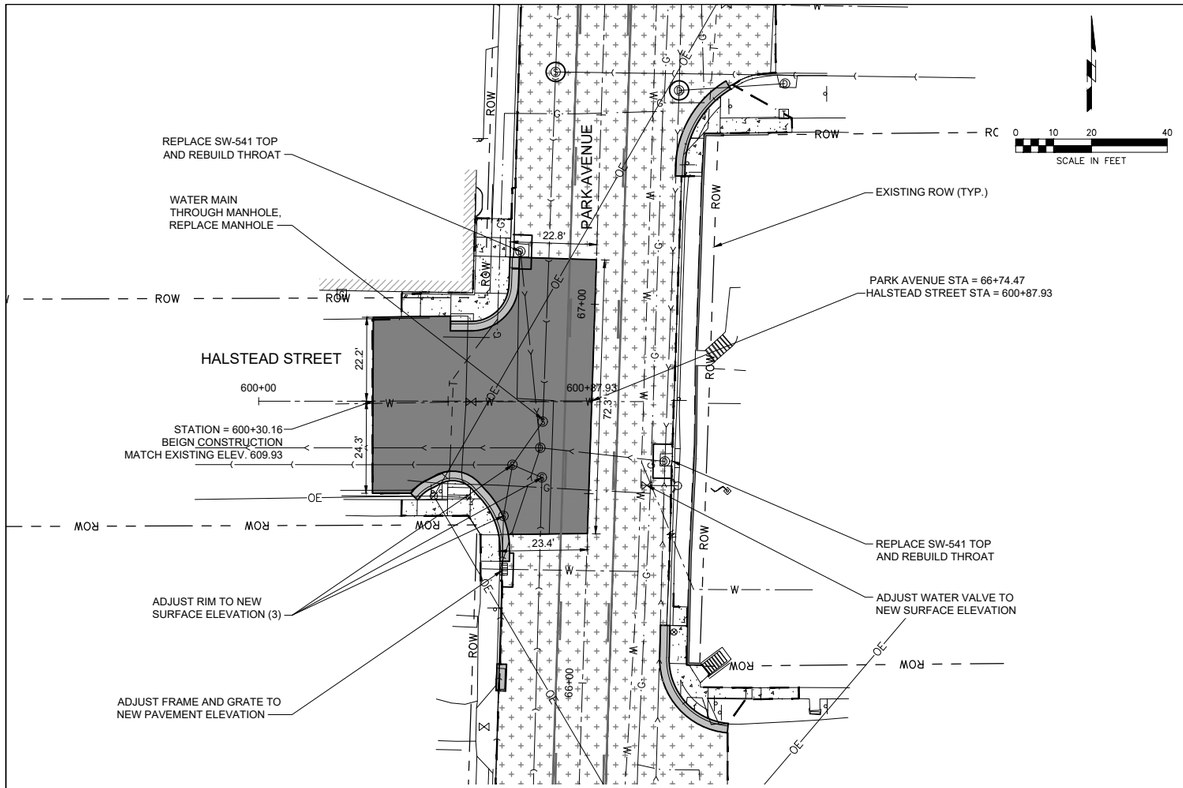
ROADWAY CL PROFILE

1" = 20'

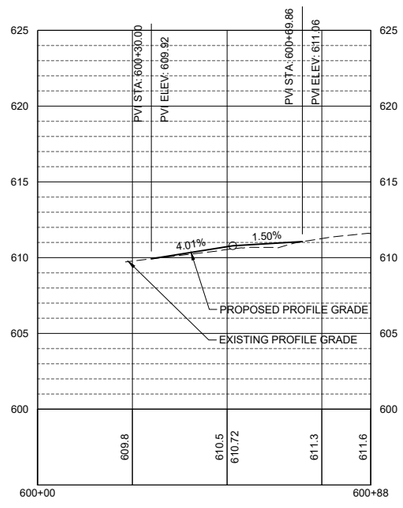


ROADWAY CL PROFILE

1" = 20'



HALSTEAD STREET PAVING PLAN
1" = 20'



ROADWAY CL PROFILE
1" = 20'

Plot Date: 3/31/2020 8:23 AM
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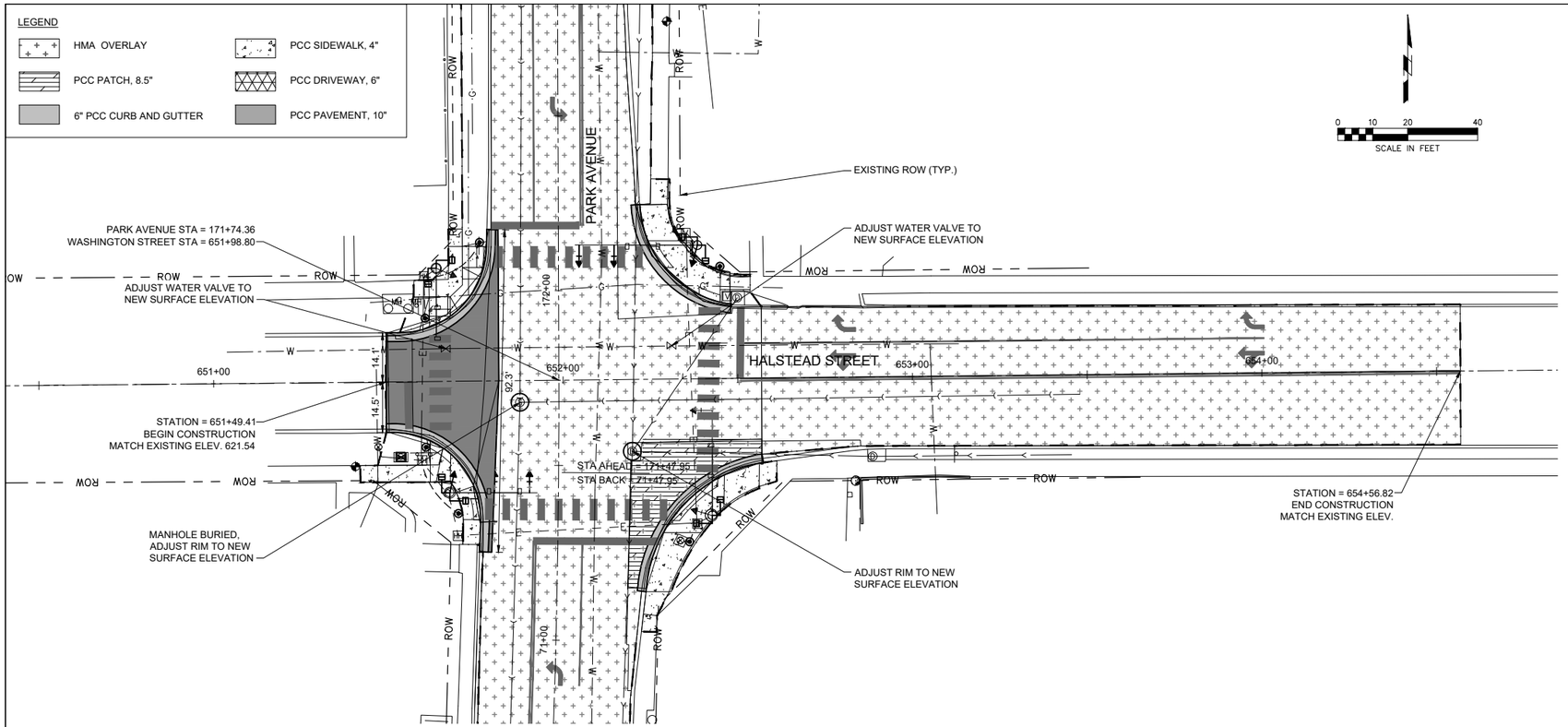
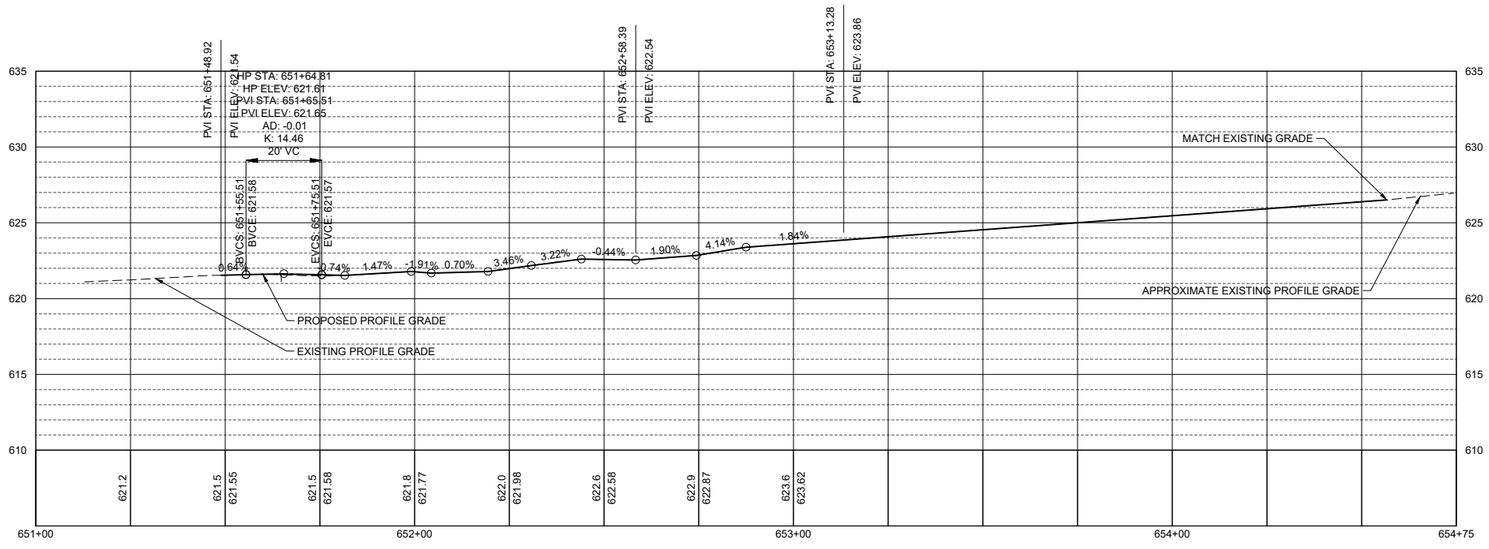


WASHINGTON STREET PAVING PLAN
1" = 20'



ROADWAY CL PROFILE
1" = 20'

Plot Date: 3/31/2020 8:24 AM
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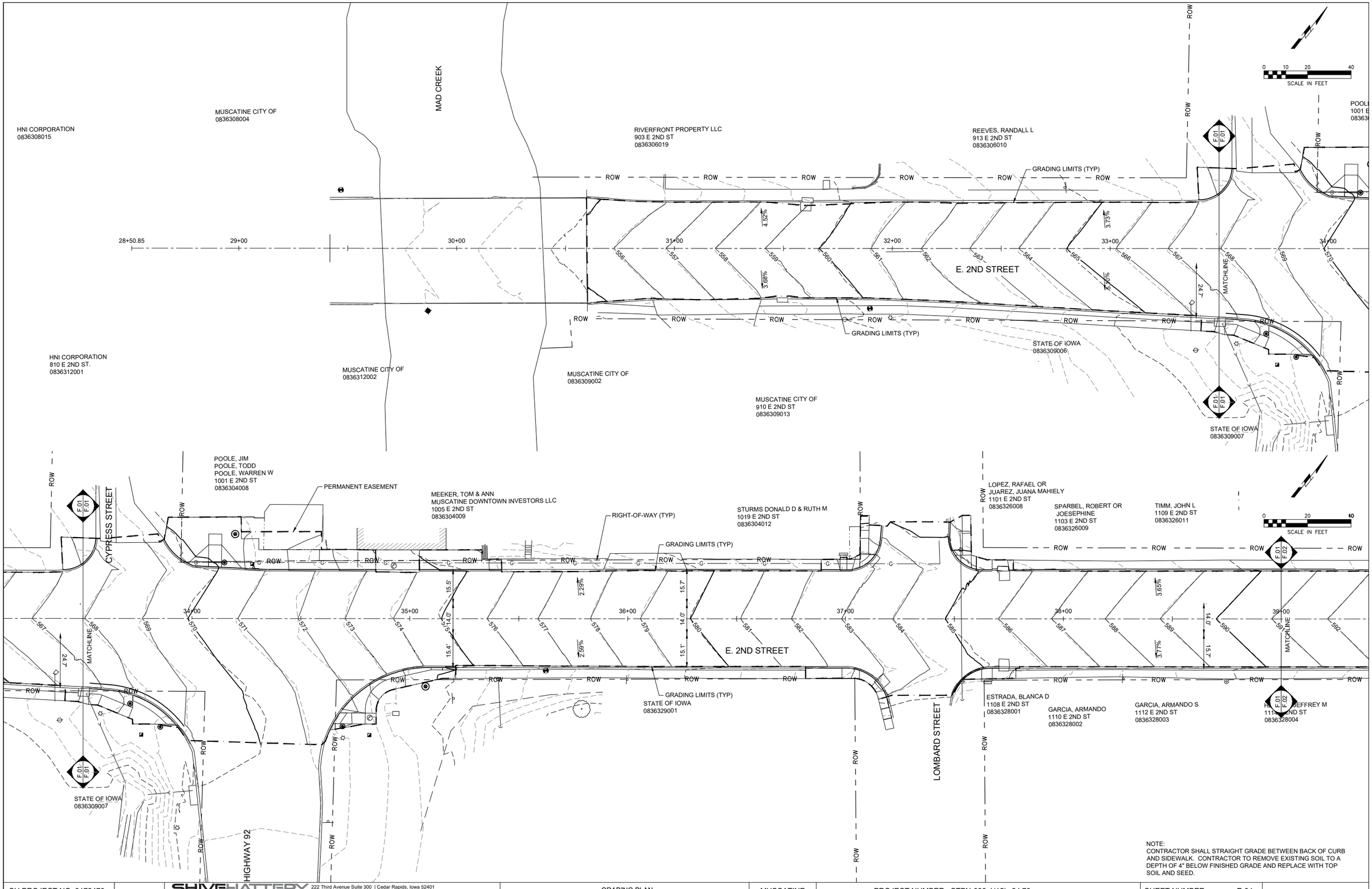

NOTE:
CONTRACTOR SHALL STRAIGHT GRADE BETWEEN BACK OF CURB AND SIDEWALK. CONTRACTOR TO REMOVE EXISTING SOIL TO A DEPTH OF 4" BELOW FINISHED GRADE AND REPLACE WITH TOP SOIL AND SEED.

SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	GRADING PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER F.01

Plot Date: 3/31/2020 8:25 AM
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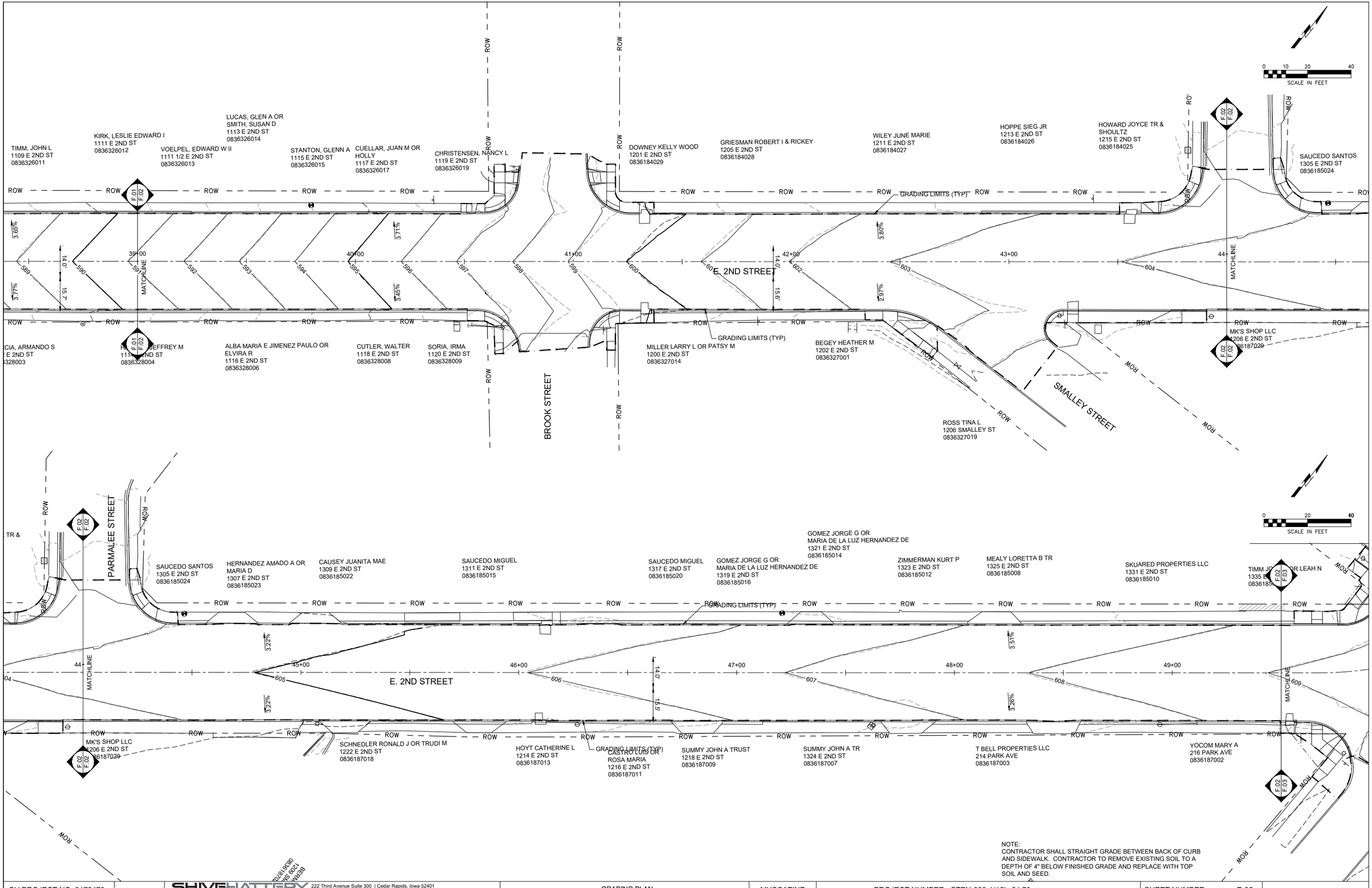

NOTE:
CONTRACTOR SHALL STRAIGHT GRADE BETWEEN BACK OF CURB AND SIDEWALK. CONTRACTOR TO REMOVE EXISTING SOIL TO A DEPTH OF 4" BELOW FINISHED GRADE AND REPLACE WITH TOP SOIL AND SEED.

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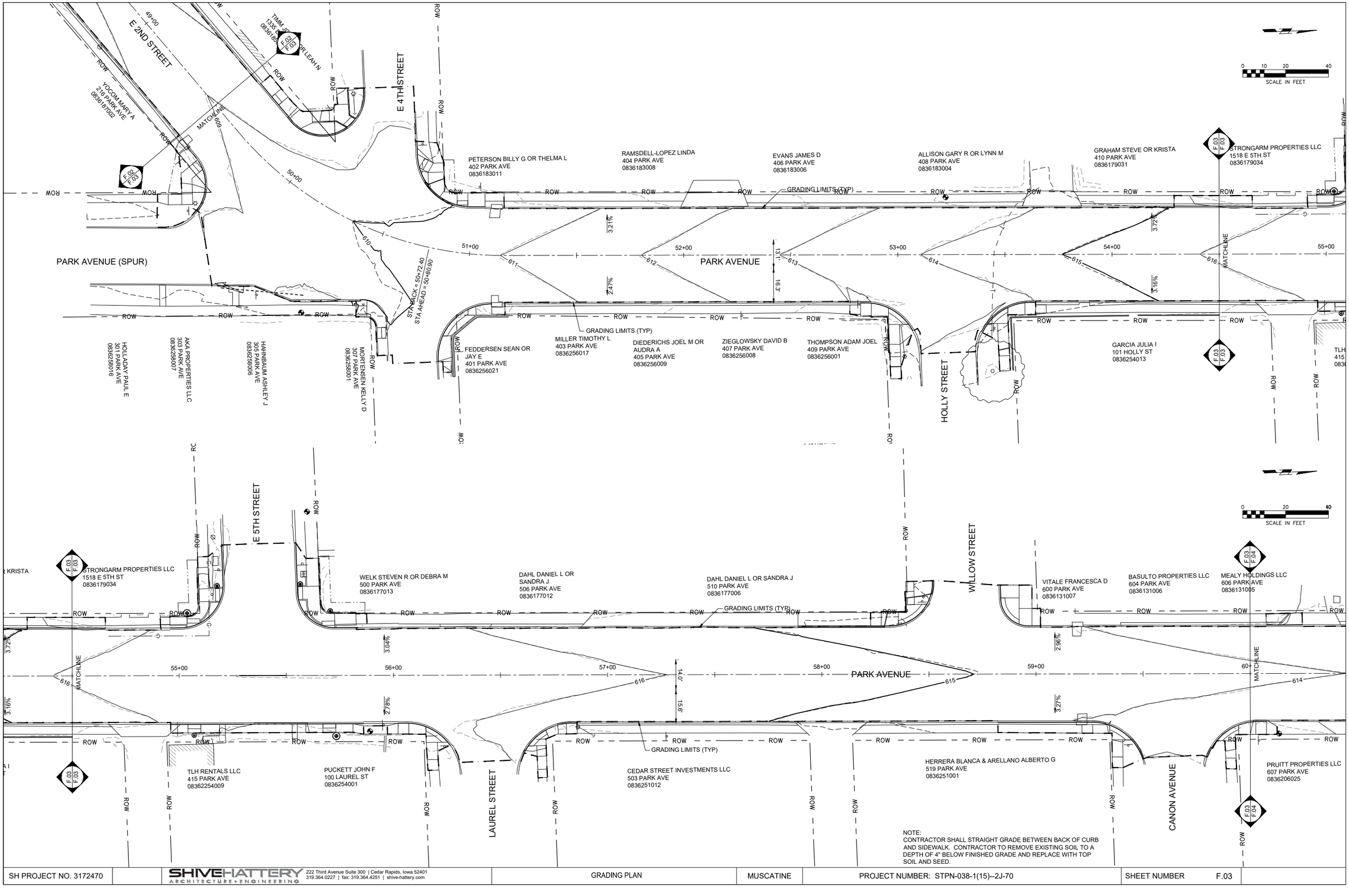
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	GRADING PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER F.02



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NOTE:
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0 10 20 40
SCALE IN FEET

MAGNOLIA STREET

PARK AVENUE

SUPER STATIONS INC
612 PARK AVE
0836130036

MEALY HOLDINGS LLC
606 PARK AVE
0836131005

STRONGARM PROPERTIES LLC
702 PARK AVE
0836130016

HARTLEY DONALD D OR WENDY
710 PARK AVE
0836129033

PLETT TREVOR
714 PARK AVE
0836129032

AHLF MARILYN R
716 PARK AVE
0836129031

GRADING LIMITS (TYP)

PRUITT PROPERTIES LLC
607 PARK AVE
0836206025

FORD MICKAEL C
611 PARK AVE
0836206015

RENOVATIONS + LLC
615 PARK AVE
0836206012

WEIKERT TIMOTHY E OR MENDIE J
619 PARK AVE
0836206002

HARTLEY ARIANA
701 PARK AVE
0836205014

LOOS NORBERT I
703 PARK AVE
0836205001

NLL LLC
711 PARK AVE
0836203012

HALSTEAD STREET

SHERIDAN STREET

SHERMAN STREET

GRANT STREET

BASULTO PROPERTIES LLC
800 PARK AVE
0836129016

EVANS JAMES D
720 PARK AVE
0836129030

GTM PROPERTIES LLC
810 PARK AVE
0836130015

SANCHEZ EFRAIN OR DONNA
801 PARK AVE
0836203010

MORGAN DOROTHY J
803 PARK AVE
0836203001

ADAMS JEFFREY M
813 PARK AVE
0836201029

CARDOZA SOFIA L
815 PARK AVE
0836201027

BUTCHER KIRK H OR TERESA K
821 PARK AVE
0836201016

QUATTRO SLM LLC
838 PARK AVE
0836127019

BUTCHER KIRK H OR TERESA K
839 PARK AVE
0836201030

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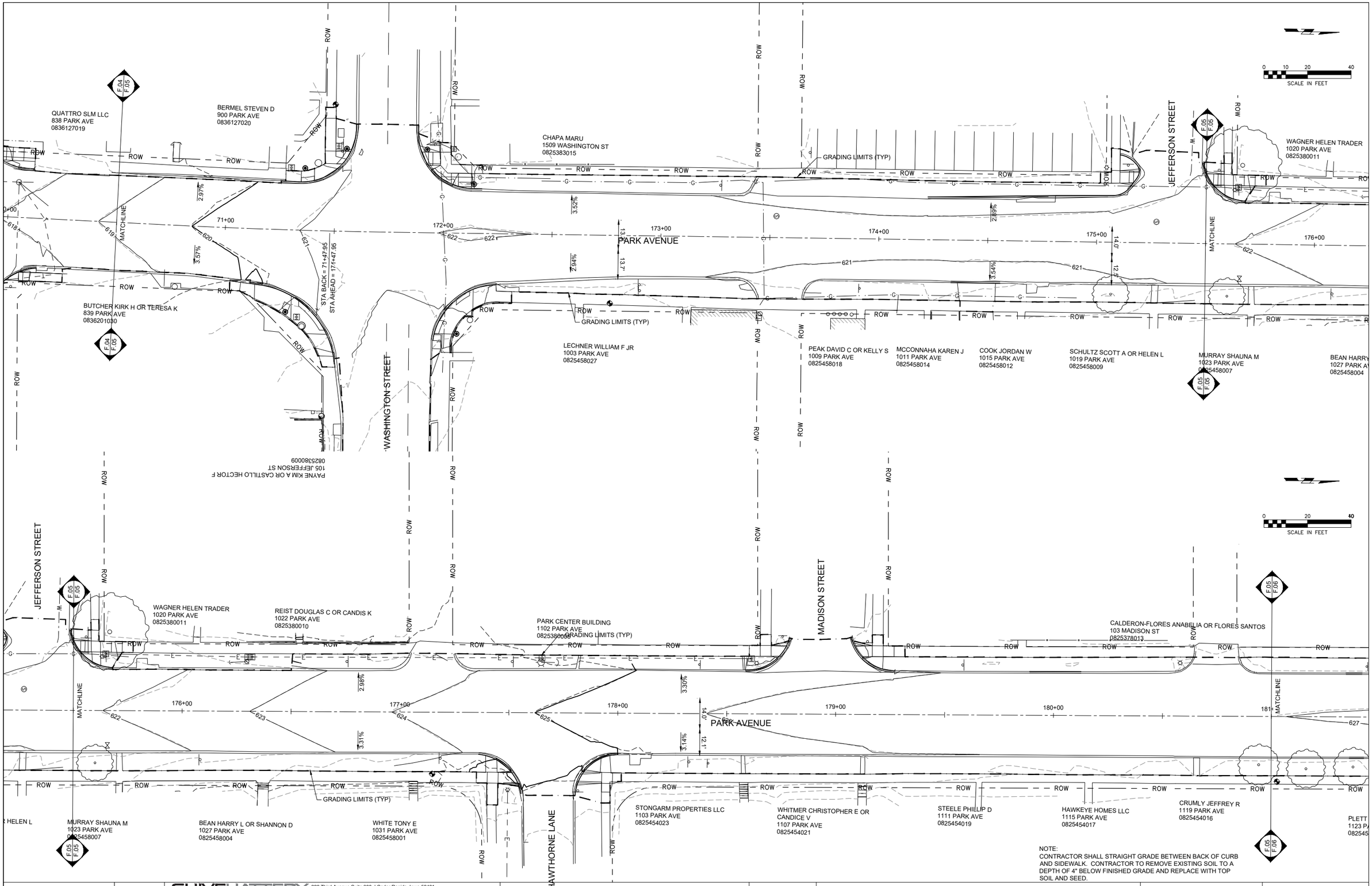

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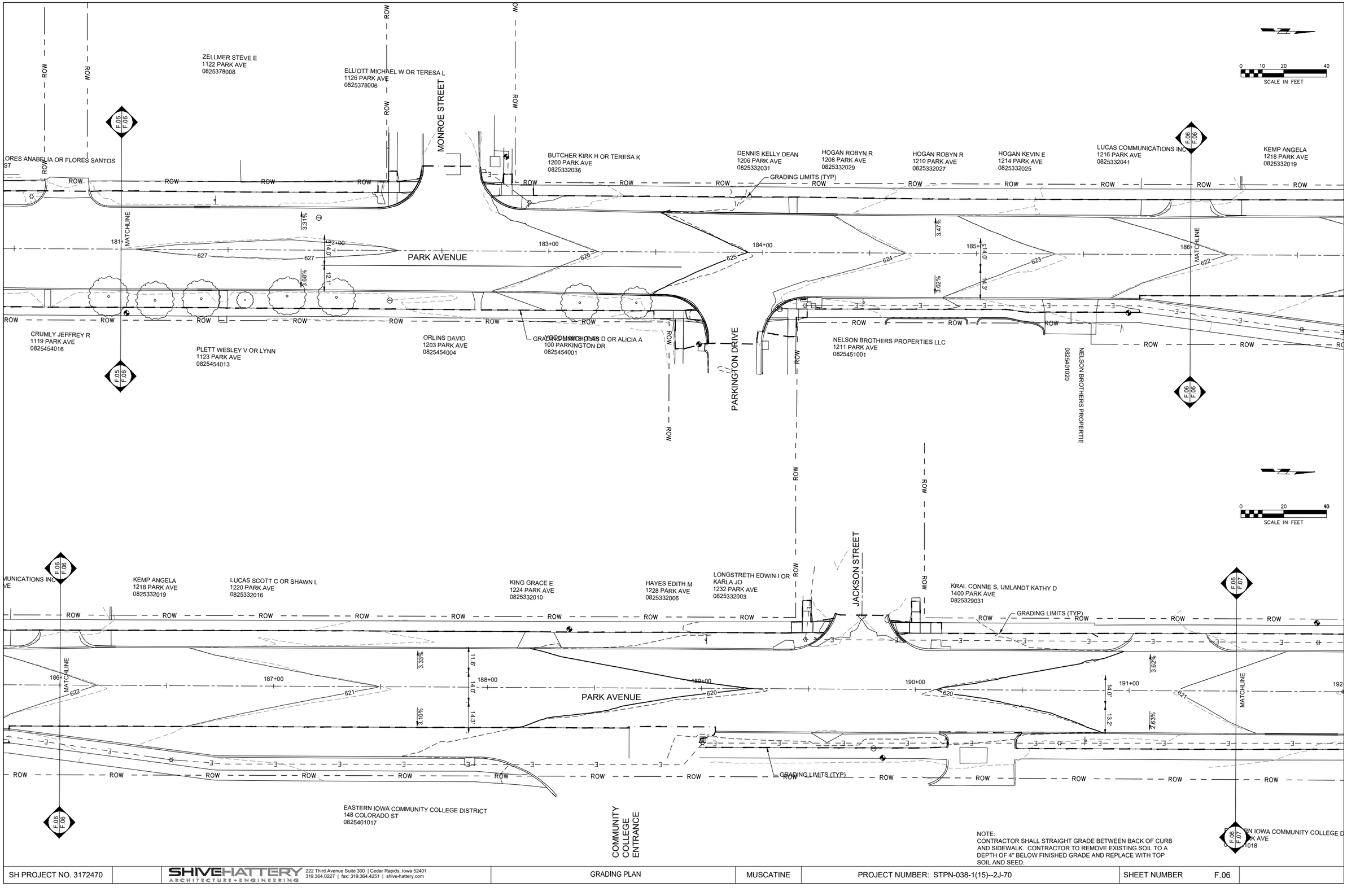
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	GRADING PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER F.05



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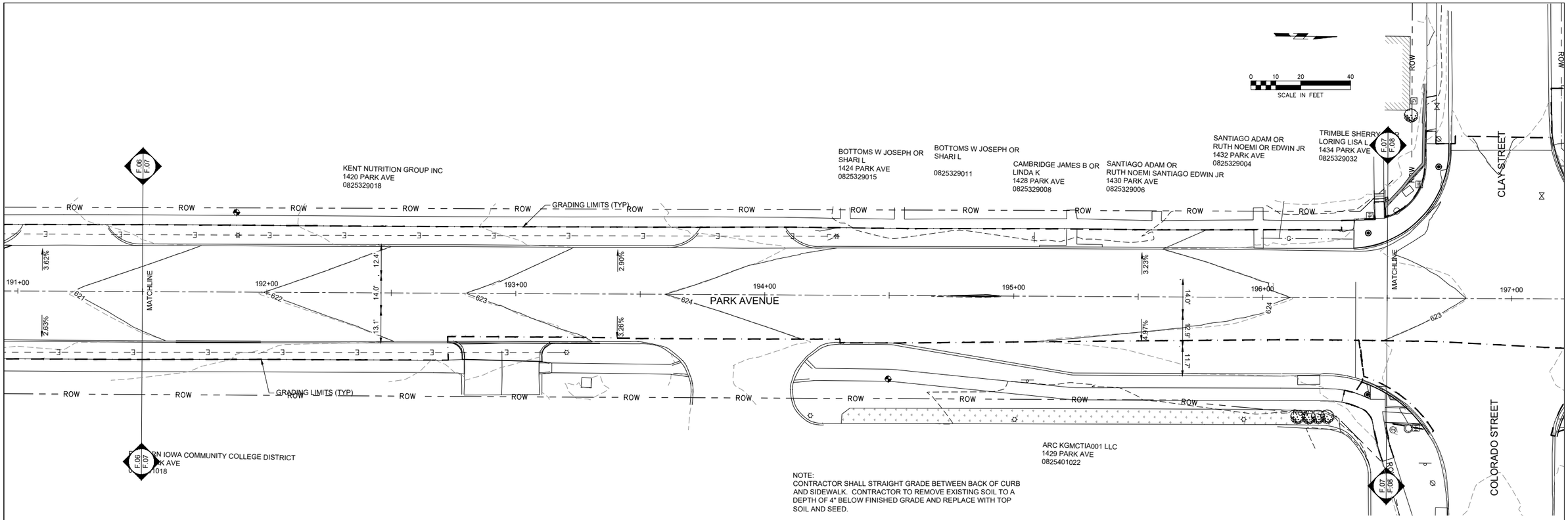

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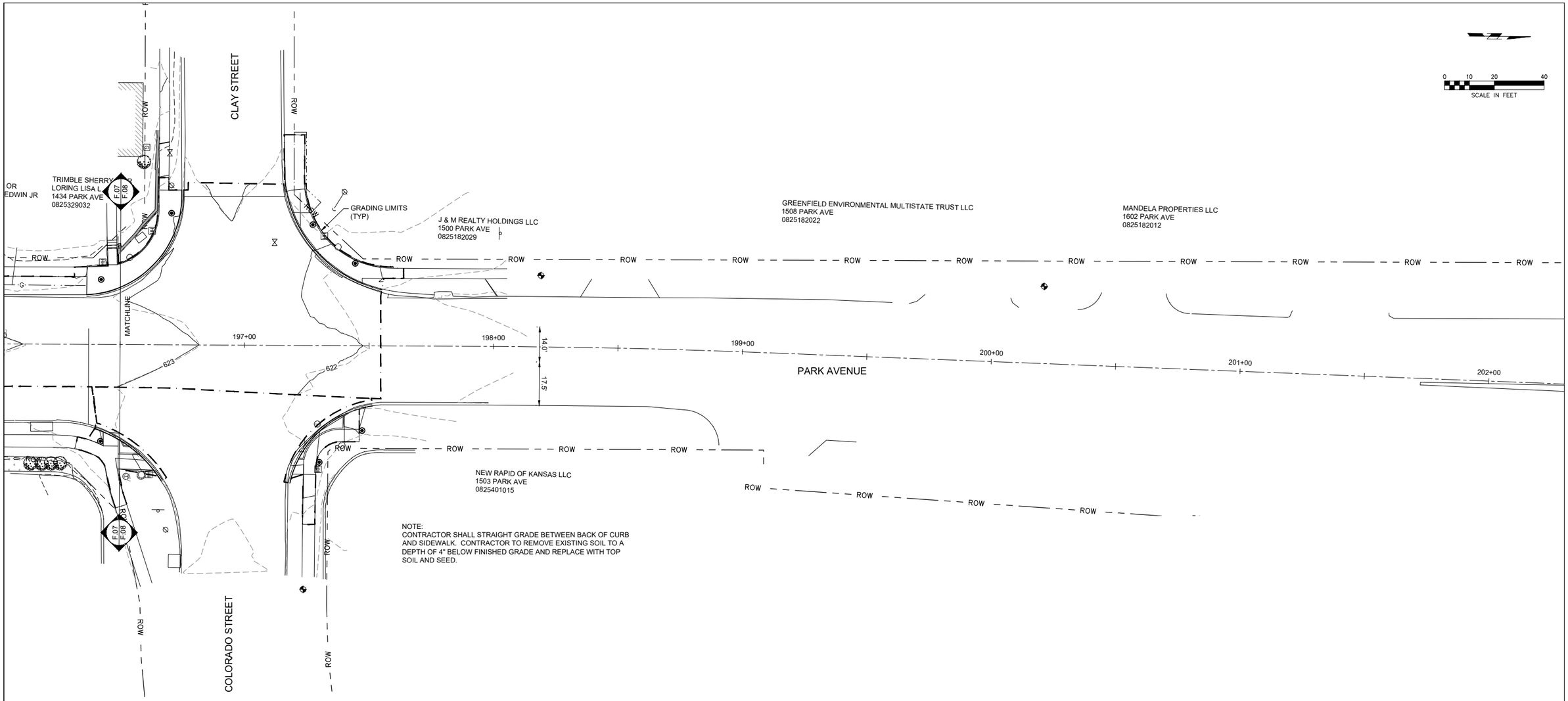

NOTE:
CONTRACTOR SHALL STRAIGHT GRADE BETWEEN BACK OF CURB AND SIDEWALK. CONTRACTOR TO REMOVE EXISTING SOIL TO A DEPTH OF 4" BELOW FINISHED GRADE AND REPLACE WITH TOP SOIL AND SEED.

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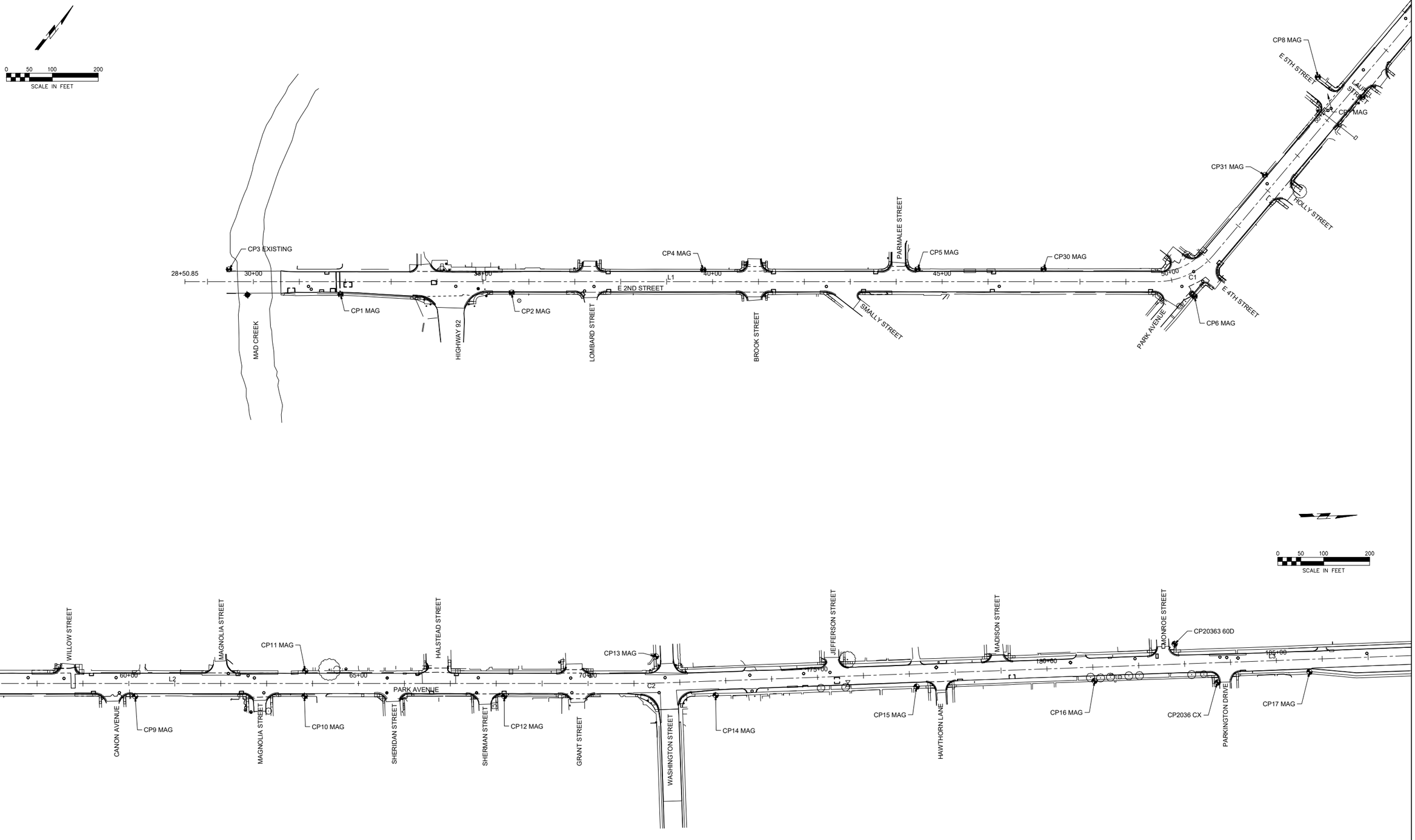

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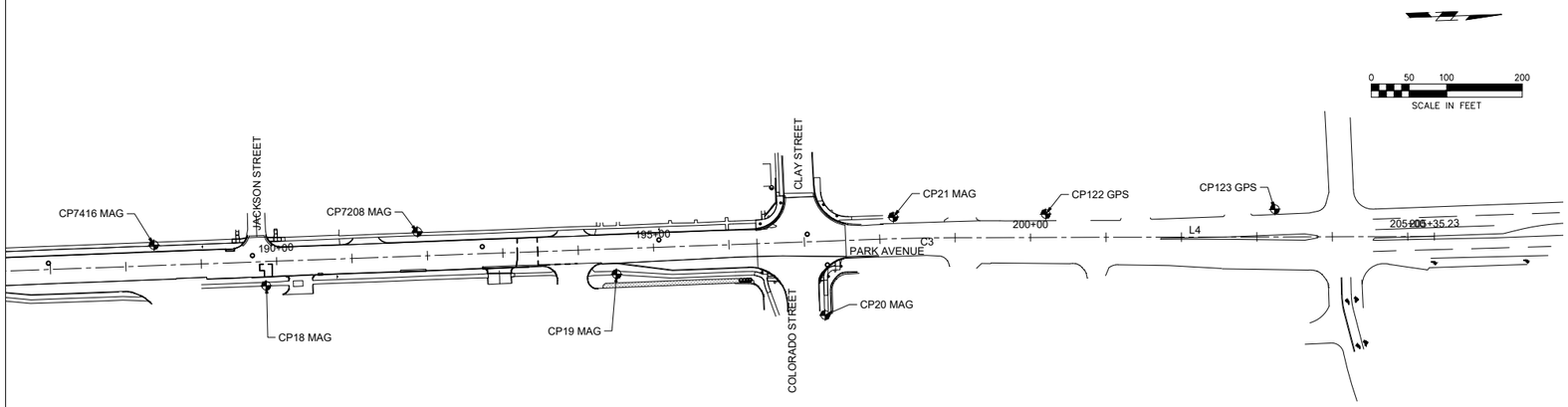
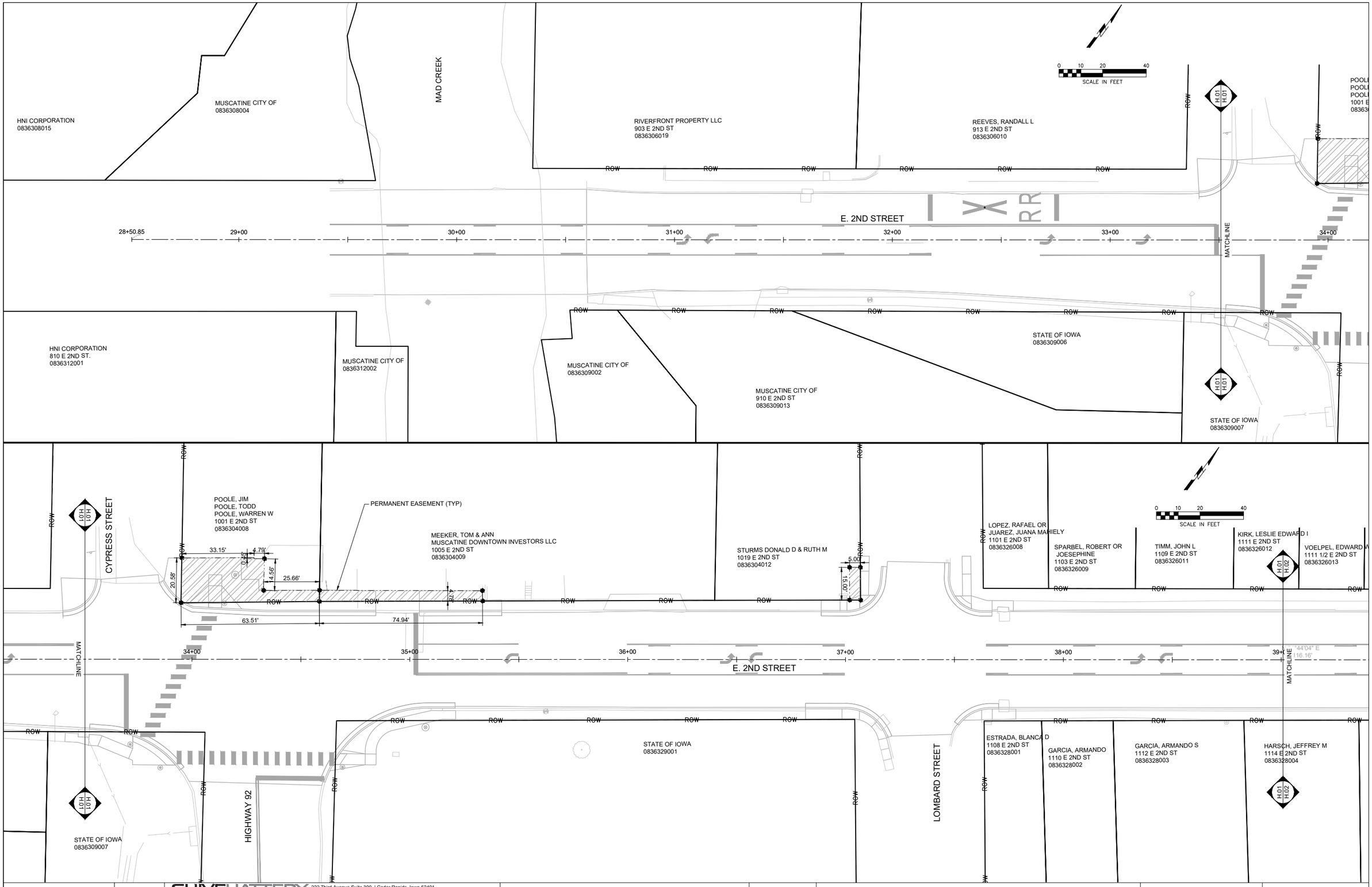
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	GEOMETRIC CONTROL	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER G.01



PARK AVE ALIGNMENT SEGMENT TABLE								
SEGMENT #	LENGTH	RADIUS	LINE/CHORD DIRECTION	DELTA (Δ)	START POINT	START STATION	END POINT	END STATION
L1	2116.16'		N51° 44' 04.11"E		N = 529021.38 E = 2315580.08	28+50.85	N = 530331.93 E = 2317241.58	49+67.01
C1	140.79'	161.81'	N26° 48' 33.43"E	49° 51' 01.36"	N = 530331.93 E = 2317241.58	49+67.01	N = 530453.66 E = 2317303.10	51+16.29
L2	1957.86'		N01° 53' 02.75"E		N = 530453.66 E = 2317303.10	51+16.29	N = 532410.47 E = 2317367.47	70+74.16
C2	106.01'	2907.47'	N00° 50' 22.39"E	2° 05' 20.74"	N = 532410.47 E = 2317367.47	70+74.16	N = 532516.46 E = 2317369.02	171+80.17
L3	2622.58'		N00° 12' 17.98"W		N = 532516.46 E = 2317369.02	171+80.17	N = 535139.02 E = 2317359.64	198+02.74
C3	98.61'	2895.24'	N00° 46' 14.52"E	1° 57' 05.00"	N = 535139.02 E = 2317359.64	198+02.74	N = 535237.61 E = 2317360.96	199+01.35
L4	633.88'		N01° 44' 47.02"E		N = 535237.61 E = 2317360.96	199+01.35	N = 535871.19 E = 2317380.28	205+35.23

CONTROL POINT TABLE

Point No.	Northing	Easting	Elevation	Description
CP1	N 529209.609	E 2315863.205	ELEV 560.263	MAG NAIL ON WALK SOUTH SIDE OF 2ND STREET EAST OF BRIDGE OVER MUD CREEK, 1FT +- S. OF W. EDGE OF WALK, 12FT +- W. OF LIGHT POLE.
CP2	N 529443.387	E 2316153.540	ELEV 577.349	MAG NAIL ON WALK SOUTH SIDE OF 2ND STREET EAST OF HWY 92 INTERSECTION 22 FT +- EAST OF LIGHT POLE.
CP3	N 529101.857	E 2315638.874	ELEV 553.150	FOUND 60D NAIL ON WALK NORTH SIDE 2ND STREET WEST OF BRIDGE OVER MUD CREEK 11FT +- WEST OD GUARD RAIL.
CP4	N 529740.767	E 2316450.422	ELEV 593.972	MAG NAIL ON WALK NORTH SIDE 2ND STREET 10FT +- WEST OF WALK TO 1115 E. 2ND STREET.
CP5	N 530030.745	E 2316816.195	ELEV 604.520	MAG NAIL ON WALK AT NORTHEAST CORNER OF 2ND STREET AND PARMALEE STREET 5FT +-WEST OF WALK TO 1305 2ND STREET.
CP6	N 630357.953	E 2317326.450	ELEV 609.898	MAG NAIL ON WALK EAST SIDE OF PARK AVENUE 5FT +- SOUTH OF WALK TO 307 PARK AVENUE.
CP7	N 530925.286	E 2317344.730	ELEV 616.932	MAG NAIL ON WALK 1FT +- WEST OF EAST EDGE WALK 55FT +- SOUTH OF C/L LAUREL STREET 50FT +- NORTH OF C/L OF E. 5TH STREET.
CP8	N 530899.431	E 2317241.279	ELEV 616.956	MAG NAIL ON WALK NORTH SIDE OF E.5TH STREET 1FT NORTH OF SOUTH EDGE OF WALK 20FT WEST OF WALK TO NORTH 8FT +- NW OF MANHOLE.
CP9	N 531349.374	E 2317360.603	ELEV 614.305	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT +- WEST OF EAST EDGE OF WALK 50FT +- NORTH OF C/L CANON AVENUE 13.5FT NE OF FIRE HYDRANT.
CP10	N 531718.392	E 2317371.947	ELEV 612.410	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT +- WEST OF EAST EDGE WALK 35FT +- SOUTH OF C/L ALLEY 8FT +- SOUTH OF C/L WALK TO 703 PARK AVENUE.
CP11	N 531719.987	E 2317321.209	ELEV 612.431	MAG NAIL ON WALK WEST SIDE PARK AVENUE 0.5FT +- EAST OF WEST EDGE OF WALK 10FT+- NORTH OF IOWA BYWAY TRAFFIC SIGN 19FT+- SOUTH OF WALK TO 710 PARK AVENUE.
CP12	N 532152.930	E 2317386.657	ELEV 613.983	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT +- WEST OF EAST EDGE OF WALK 43FT +- NORTH OF C/L OF sHERMAN STREET 8FT+- SOUTH OF WALK TO 813 PARK AVENUE.
CP13	N 532485.933	E 2317310.849	ELEV 621.843	MAG NAIL ON WALK AT SOUTHWEST CORNER OF PARK AVENUE AND WASHINGTON STREET 0.5FT +- SOUTH OF NORTH EDGE OF WALK 10.7FT +- WEST OF TRAFFIC CONTROL BOX.
CP14	N 532613.315	E 2317399.919	ELEV 622.220	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT +- WEST OF EAST EDGE OF WALK 100FT+- NORTH OF C/L WASHINGTON STREET 14FT +- NORTH OF WALK TO EAST.
CP15	N 533051.274	E 2317395.412	ELEV 624.978	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT +- EAST OF WEST EDGE OF WALK 53FT +- SOUTH OF C/L HAWTHORNE LANE 9FT +- NORTH OF WALK TO 1031 PARK AVENUE.
CP16	N 533439.104	E 2317395.609	ELEV 627.366	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1.5FT +- WEST OF EAST EDGE OF WALK 150FT +- SOUTH OF C/L MONROE STREET BETWEEN 1119 AND 1123 PARK AVENUE.
CP17	N 533907.523	E 2317391.425	ELEV 622.496	MAG NAIL ON WALK EAST SIDE PARK AVENUE 0.5FT +- EAST OF WEST EDGE OF WALK 5FT+- SOUTH OF WALK PI 9.5FT NW OF FIRE HYDRANT 15FT +- NORTH OF NORTH EDGE OF DRIVE TO NELSON BROTHERS AGENCY.
CP18	N 534321.329	E 2317394.636	ELEV 620.685	MAG NAIL ON WALK EAST SIDE PARK AVENUE 0.5FT +- WEST OF EAST EDGE OF WALK 10FT +- NORTH OF C/L OF JACKSON STREET 6FT +- NORTHEAST OF TELEPHONE MANHOLE.
CP19	N 534786.116	E 2317394.484	ELEV 624.819	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT+- WEST OF EAST EDGE OF WALK 9FT EAST OF FIRE HYDRANT 60FT NORTH OF C/L DRIVE TO KUM & GO STORE.
CP20	N 535060.623	E 2317457.897	ELEV 623.691	MAG NAIL ON WALK NORTH SIDE COLORADO STREET 28FT +- EAST OF FIRE HYDRANT 15FT +- NORTHEST OF C/L DOUBLE INTAKE.
CP21	N 535155.107	E 2317330.978	ELEV 621.468	MAG NAIL ON WALK WEST SIDE PARK AVENUE 0.5FT +- WEST OF EAST EDGE OF WALK 120FT +- NORTH OF C/L OF CLAY STREET.
CP122	N 535357.256	E 2317333.597	ELEV 619.901	MAG NAIL ON WALK WEST SIDE PARK AVENUE 15FT +- SOUTH OF DRIVE TO IWIRELESS BUILDING.
CP123	N 535660.951	E 2317337.258	ELEV 619.507	MAG NAIL ON WALK WEST SIDE PARK AVENUE 13FT +- NORTH OF NORTH DRIVE TO MUSKIES MOTEL.
CP30	N 530200.988	E 2317031.418	ELEV 606.880	MAG NAIL ON WALK NORTH SIDE 2ND STREET 0.5FT +- SOUTH OF NORTH EDGE WALK 20FT +- WEST OF SE CORNER OF 1321 E. 2ND STREET 6FT +- SOUTH OF HAND PUMP.
CP31	N 530660.457	E 2317283.062	ELEV 614.006	MAG NAIL ON WALK WEST SIDE PARK AVENUE 1FT +- EAST OF WEST EDGE OF WALK IN LINE WITH C/L OF HOLLY STREET EXTENDED WEST 2FT +- NORTHEAST OF CORNER STEPS.
CP32	N 531194.034	E 2317353.896	ELEV 614.964	MAG NAIL ON WALK EAST SIDE PARK AVENUE 0.5FT+- WEST OF EAST EDGE OF WALK 50FT +- NORTH OF ALLEY BETWEEN CANNON AVENUE AND LAUREL STREET 4FT +- NE. OF TRAFFIC SIGN.
CP33	N 531620.948	E 2317312.062	ELEV 613.213	MAG NAIL ON CONCRETE 12FT +- WEST OF BACK OF CURB LINE PARK AVENUE IN LINE WITH C/L OF MAGNOLIA STREET EAST EXTENDED TO THE WEST.
CP34	N 529617.252	E 2316293.465	ELEV 586.193	MAG NAIL ON WALK NORTH SIDE 2ND STREET 1FT +- SOUTH OF BACK OF WALK 30FT +- NORTHEAST OF BACK OF CURB LINE OF LOMBARD STREET 2.5FT +- OF COR STEPS.
CP35	N 531534.435	E 2317365.798	ELEV 613.241	MAG NAIL ON WALK EAST SIDE PARK AVENUE 1FT +- WEST OF EAST EDGE OF WALK IN LINE WITH C/L MAGNOLIA STREET TO WEST EXTENDED EAST 90FT SOUTH OF C/L MAGNOLIA STREET TO EAST.
CP36	N 531950.696	E 2317326.663	ELEV 611.423	MAG NAIL ON WALK WEST SIDE PARK AVENUE AT 720 PARK AVENUE 50FT SOUTH OF C/L HALSTEAD STREET.
CP37	N 532283.932	E 2317330.907	ELEV 617.236	MAG NAIL IN WALK AT SOUTHWEST CORNER OF PARK AVENUE AND GRANT STREET.
CP20363	N 533616.013	E 2317321.009	ELEV 626.439	60D NAIL IN SIDEWALK JOINT 1FT NORTH OF SOUTH EDGE OF WALK ON NORTH SIDE OF MONROE STREET OPPOSITE WEST EDGE OF EDGE OF CONCRETE OF ELECTRIC CABINET EXTENDED NORTH.
CP20364	N 533706.904	E 2317407.833	ELEV 625.419	CX ON SOUTHWEST CORNER OF INTAKE SOUTH SIDE OF PARKINTON DRIVE 20FT +- EAST OF EAST BACK OF CURB OF PARK AVENUE.



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TIMM, JOHN L
1109 E 2ND ST
0836326011

KIRK, LESLIE EDWARD I
1111 E 2ND ST
0836326012

VOELPEL, EDWARD W II
1111 1/2 E 2ND ST
0836326013

LUCAS, GLEN A OR
SMITH, SUSAN D
1113 E 2ND ST
0836326014

STANTON, GLENN A
1115 E 2ND ST
0836326015

CUELLAR, JUAN M OR
HOLLY
1117 E 2ND ST
0836326017

CHRISTENSEN, NANCY L
1119 E 2ND ST
0836326019

DOWNEY KELLY WOOD
1201 E 2ND ST
0836184029

GRIESMAN ROBERT I & RICKEY
1205 E 2ND ST
0836184028

WILEY JUNE MARIE
1211 E 2ND ST
0836184027

HOPPE SIEG JR
1213 E 2ND ST
0836184026

HOWARD JOYCE TR &
SHOULTZ
1215 E 2ND ST
0836184025

SAUCEDO SANTOS
1305 E 2ND ST
0836185024

ROW

MATCHLINE

N 01°44'04" E
2116.16'

40+00 41+00 42+00 43+00 44+00

E. 2ND STREET

H.01 H.02

0 10 20 40
SCALE IN FEET

CIA, ARMANDO S
E 2ND ST
328003

HARSCH, JEFFREY M
1114 E 2ND ST
0836328004

ALBA MARIA E JIMENEZ PAULO OR
ELVIRA R
1116 E 2ND ST
0836328006

CUTLER, WALTER
1118 E 2ND ST
0836328008

SORIA, IRMA
1120 E 2ND ST
0836328009

BROOK STREET

MILLER LARRY L OR PATSY M
1200 E 2ND ST
0836327014

BEGEY HEATHER M
1202 E 2ND ST
0836327001

ROSS TINA L
1206 SMALLEY ST
0836327019

SMALLEY STREET

MK'S SHOP LLC
1206 E 2ND ST
0836187029

TR &

PARMALEE STREET

SAUCEDO SANTOS
1305 E 2ND ST
0836185024

HERNANDEZ AMADO A OR
MARIA D
1307 E 2ND ST
0836185023

CAUSEY JUANITA MAE
1309 E 2ND ST
0836185022

SAUCEDO MIGUEL
1311 E 2ND ST
0836185015

SAUCEDO MIGUEL
1317 E 2ND ST
0836185020

GOMEZ JORGE G OR
MARIA DE LA LUZ HERNANDEZ DE
1319 E 2ND ST
0836185016

GOMEZ JORGE G OR
MARIA DE LA LUZ HERNANDEZ DE
1321 E 2ND ST
0836185014

ZIMMERMAN KURT P
1323 E 2ND ST
0836185012

MEALY LORETTA B TR
1325 E 2ND ST
0836185008

SKUARED PROPERTIES LLC
1331 E 2ND ST
0836185010

TIMM JOHN L OR LEAH N
1335 E 2ND ST
0836185011

H.02 H.03

0 10 20 40
SCALE IN FEET

MATCHLINE

45+00 46+00 47+00 48+00 49+00

E. 2ND STREET

MK'S SHOP LLC
1206 E 2ND ST
0836187029

SCHNEDLER RONALD J OR TRUDI M
1222 E 2ND ST
0836187018

HOYT CATHERINE L
1214 E 2ND ST
0836187013

CASTRO LUIS OR
ROSA MARIA
1216 E 2ND ST
0836187011

SUMMY JOHN A TRUST
1218 E 2ND ST
0836187009

SUMMY JOHN A TR
1324 E 2ND ST
0836187007

T BELL PROPERTIES LLC
214 PARK AVE
0836187003

YOCOM MARY A
216 PARK AVE
0836187002

H.02 H.03

451+00

BERNDT, S
1239 SMALL
0836181928

POWEL
212

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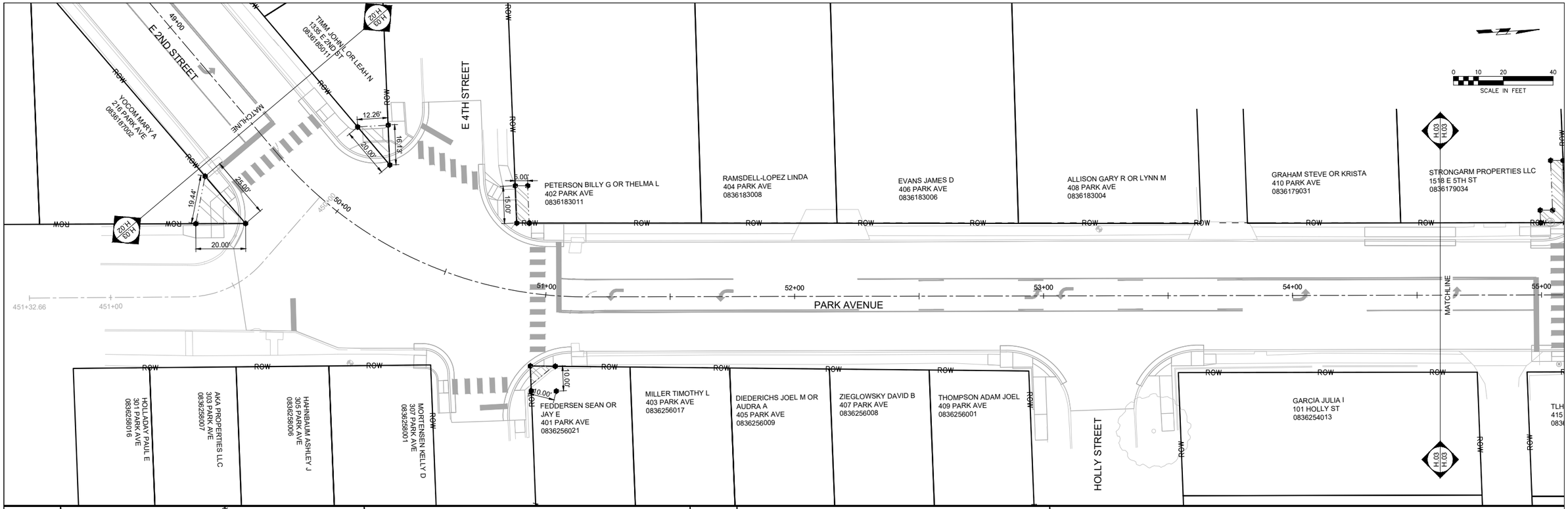

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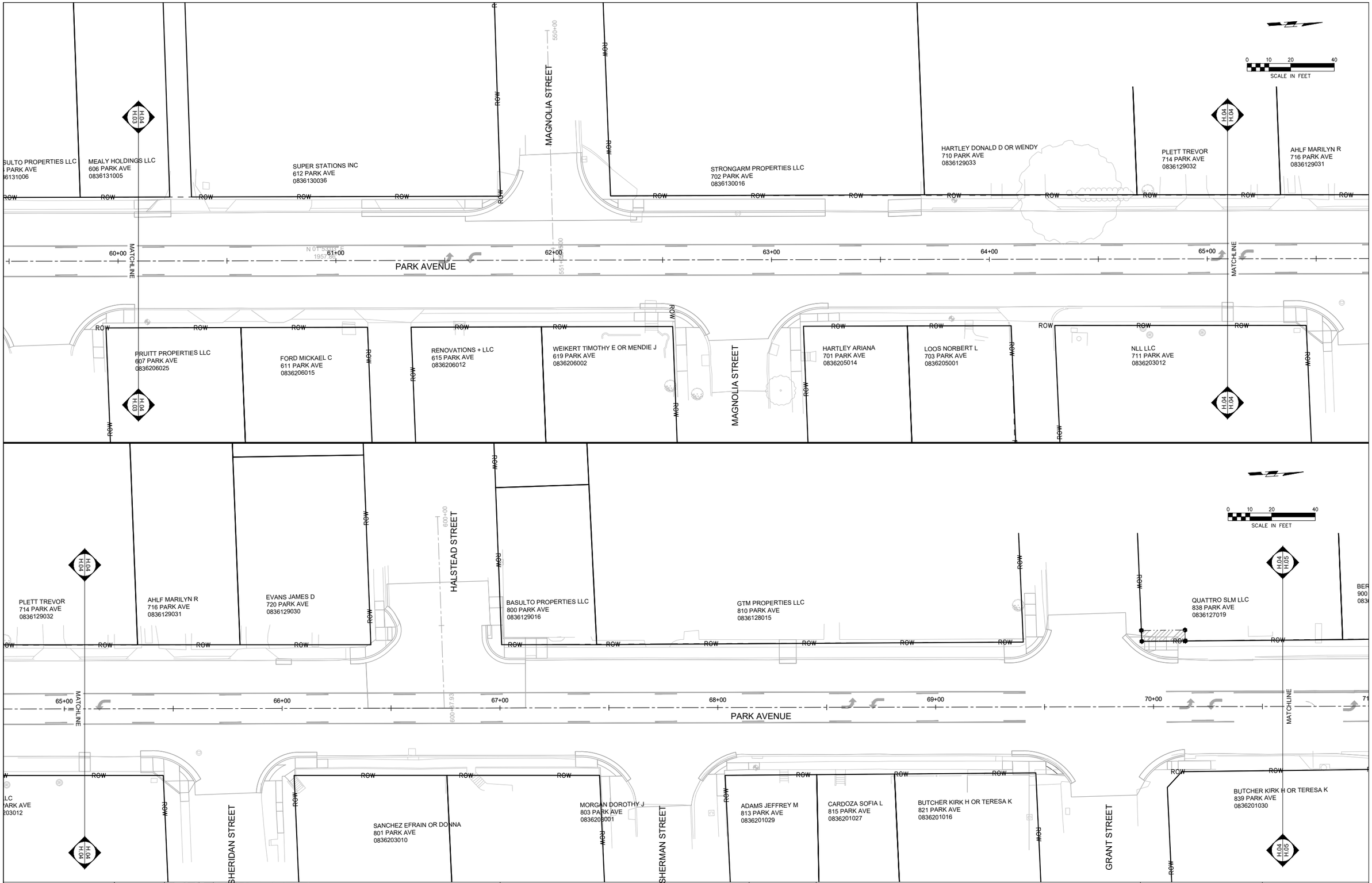
SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE + ENGINEERING	222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	RIGHT OF WAY PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER H.03



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QUATTRO SLM LLC
838 PARK AVE
0836127019

BERMEL STEVEN D
900 PARK AVE
0836127020

CHAPA MARU
1509 WASHINGTON ST
0825383015

JEFFERSON STREET

WAGNER HELEN TRADER
1020 PARK AVE
0825380011

BUTCHER KIRK H OR TERESA K
839 PARK AVE
0836201030

LECHNER WILLIAM F JR
1003 PARK AVE
0825458027

PEAK DAVID C OR KELLY S
1009 PARK AVE
0825458018

MCCONNAHA KAREN J
1011 PARK AVE
0825458014

COOK JORDAN W
1015 PARK AVE
0825458012

SCHULTZ SCOTT A OR HELEN L
1019 PARK AVE
0825458009

MURRAY SHAUNA M
1023 PARK AVE
0825458007

BEAN HARRY
1027 PARK AV
0825458004

PARK AVENUE

WASHINGTON STREET

MATCHLINE

0 10 20 40
SCALE IN FEET

PAYNE KIM A OR CASTILLO HECTOR F
105 JEFFERSON ST
0825380009

WAGNER HELEN TRADER
1020 PARK AVE
0825380011

REIST DOUGLAS C OR CANDIS K
1022 PARK AVE
0825380010

PARK CENTER BUILDING
1102 PARK AVE
0825380005

MADISON STREET

CALDERON-FLORES ANABELIA OR FLORES SANTOS
103 MADISON ST
0825378013

MURRAY SHAUNA M
1023 PARK AVE
0825458007

BEAN HARRY L OR SHANNON D
1027 PARK AVE
0825458004

WHITE TONY E
1031 PARK AVE
0825458001

HAWTHORNE LANE

STONGARM PROPERTIES LLC
1103 PARK AVE
0825454023

WHITMER CHRISTOPHER E OR CANDICE V
1107 PARK AVE
0825454021

STEELE PHILLIP D
1111 PARK AVE
0825454019

HAWKEYE HOMES LLC
1115 PARK AVE
0825454017

CRUMLY JEFFREY R
1119 PARK AVE
0825454016

PLETT
1123 PA
082545

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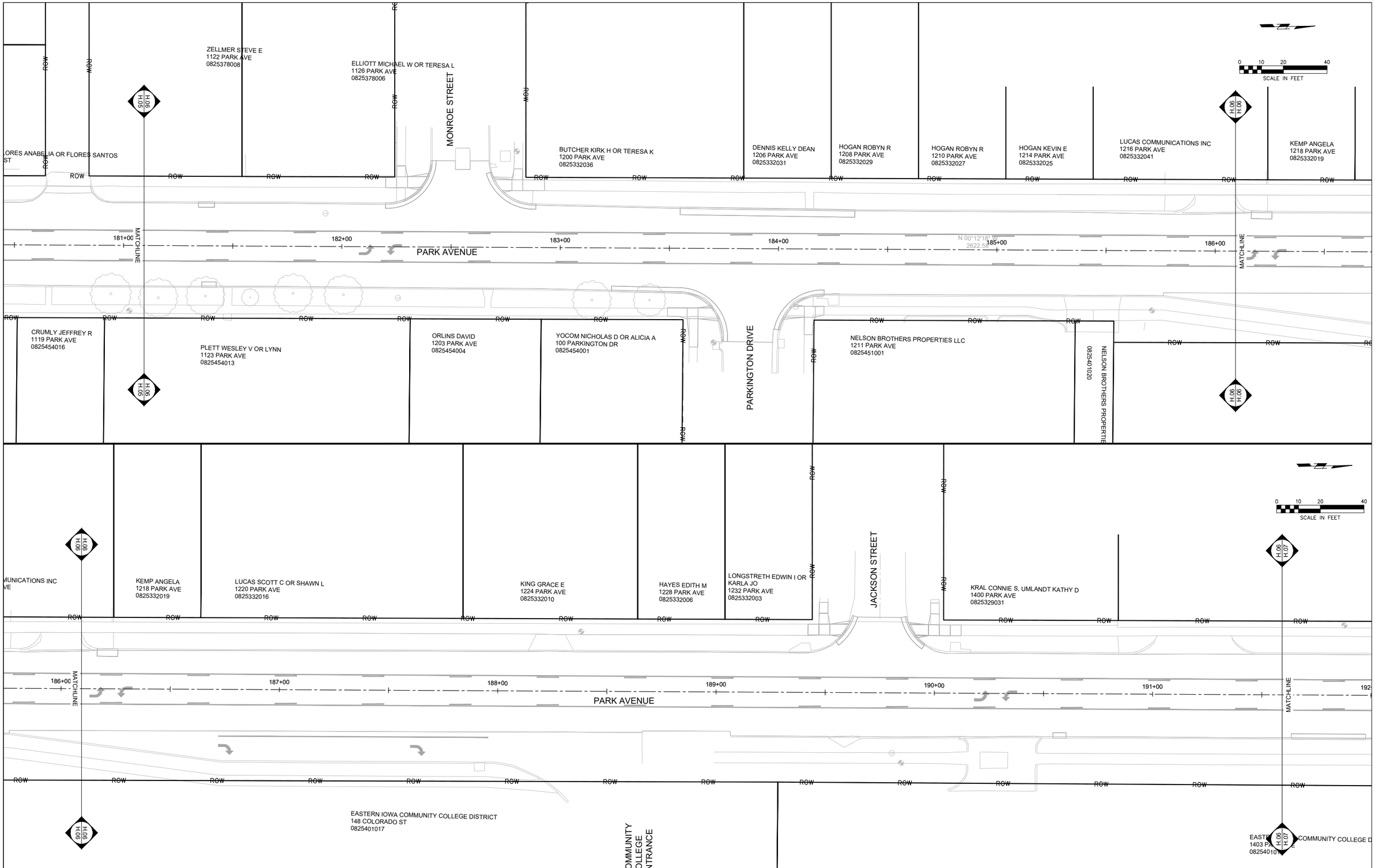

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KENT NUTRITION GROUP INC
1420 PARK AVE
0825329018

BOTTOMS W JOSEPH OR
SHARI L
1424 PARK AVE
0825329015

BOTTOMS W JOSEPH OR
SHARI L
0825329011

CAMBRIDGE JAMES B OR
LINDA K
1428 PARK AVE
0825329008

SANTIAGO ADAM OR
RUTH NOEMI SANTIAGO EDWIN JR
1430 PARK AVE
0825329006

SANTIAGO ADAM OR
RUTH NOEMI OR EDWIN JR
1432 PARK AVE
0825329004

TRIMBLE SHERRY S OR
LORING LISA L
1434 PARK AVE
0825329032

CLAY STREET

PARK AVENUE

191+00 192+00 193+00 194+00 195+00 196+00 197+00

MATCHLINE

ROW

H.07 H.06

EASTERN IOWA COMMUNITY COLLEGE DISTRICT
1403 PARK AVE
0825401015

ARC KGMCTIA001 LLC
1429 PARK AVE
0825401022

COLORADO STREET

0 10 20 40
SCALE IN FEET

TRIMBLE SHERRY S OR
LORING LISA L
1434 PARK AVE
0825329032

CLAY STREET

5.0000'
25.0000'
10.00'
2.00'

J & M REALTY HOLDINGS LLC
1500 PARK AVE
0825182029

GREENFIELD ENVIRONMENTAL MULTISTATE TRUST LLC
1508 PARK AVE
0825182022

MANDELA PROPERTIES LLC
1602 PARK AVE
0825182012

PARK AVENUE

197+00 198+00 199+00 200+00 201+00 202+00

N 01°44'47" E
633.88'

NEW RAPID OF KANSAS LLC
1503 PARK AVE
0825401015

JUAN INC
1515 PARK AVE

COLORADO STREET

H.07 H.08

0 10 20 40
SCALE IN FEET

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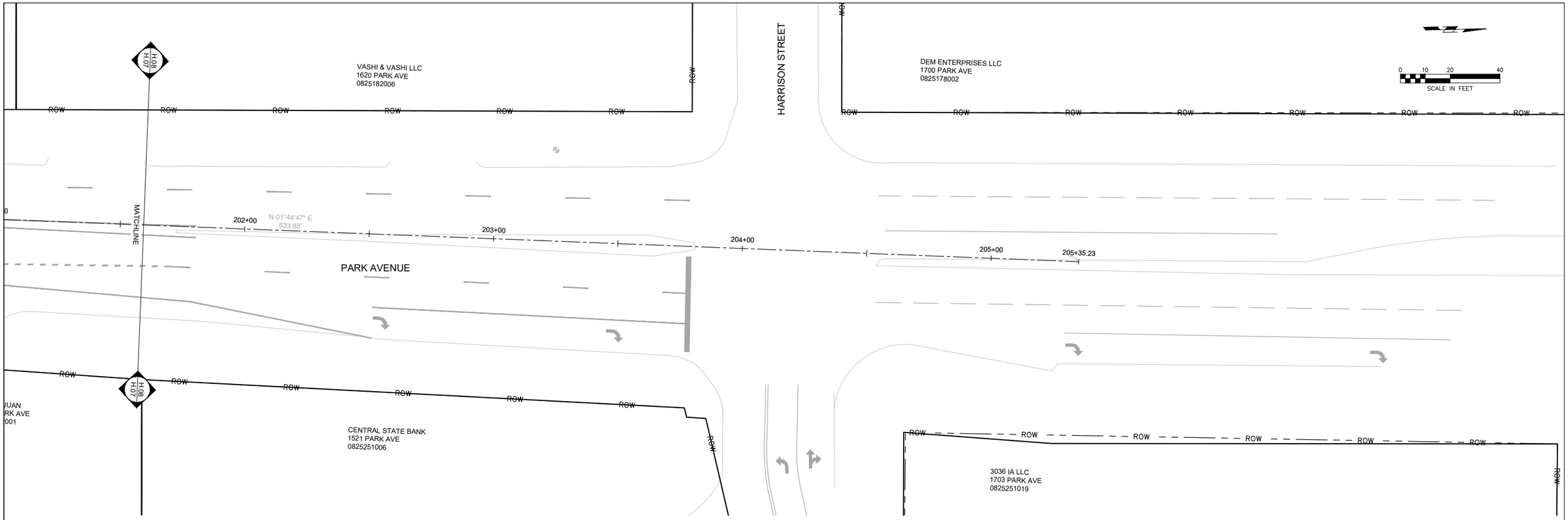

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TRAFFIC CONTROL NOTES

1. ONLY MAJOR STAGES OF CONSTRUCTION ARE SHOWN IN THE STAGING AND TRAFFIC CONTROL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED TRAFFIC CONTROL PLANS FOR ANY OTHER STAGES THAT MAY BE REQUIRED. CHANGES TO THE STAGING PLAN MUST BE APPROVED BY THE ENGINEER. ADJUSTMENT TO ADVANCED SIGNAGE AND BARRICADING AS REQUIRED TO COMBINE STAGES ARE SUBJECT TO ENGINEER APPROVAL AND ARE CONSIDERED INCIDENTAL.
2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE TRAFFIC CONTROL PLAN SHEETS.
3. FURNISH AND INSTALL ALL TRAFFIC CONTROL DEVICES AND MAINTAIN IN THE CORRECT POSITION. PROMPTLY CLEAN AND REPLACE DAMAGED TRAFFIC CONTROL DEVICES. PATROL WORK AREAS DAILY (AT A MINIMUM) TO ENSURE ALL TRAFFIC CONTROL DEVICES ARE PROPERLY SET, IN SERVICEABLE CONDITION, AND LEGIBLE.
4. THE CONTRACTOR SHALL COVER ALL CONFLICTING EXISTING SIGNS.
5. PROVIDE APPROPRIATE SIGNAGE IF, AT ANY TIME, THERE IS AN ELEVATION DIFFERENCE BETWEEN ADJACENT OR OPPOSING TRAVEL LANES ON ANY STREET.
6. DETOUR SIGNAGE SHALL BE FURNISHED, INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.
7. REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS OR CHANNELIZING DEVICES IN CONJUNCTION WITH ESTABLISHING TRAFFIC CONTROL. REMOVAL OF PAVEMENT MARKINGS SHALL BE COMPLETED BY A METHOD AS APPROVED BY THE ENGINEER.
8. CONTRACTOR SHALL COORDINATE WITH OTHER PROJECTS IN THE AREA.
9. ALL PERMANENT SIGNING SHALL BE PLACED BEFORE ROADWAYS ARE OPEN TO TRAFFIC, UNLESS OTHERWISE NOTED.
10. SOME CONSTRUCTION MAY REQUIRE TEMPORARY LANE CLOSURES NOT SHOWN IN THE PLANS. REFER TO PART 6 OF THE MUTCD FOR STANDARD LANE CLOSURE SIGNAGE.
11. WRITTEN NOTICE SHALL BE PROVIDED TO THE CITY OF MUSCATINE AND THE ENGINEER PRIOR TO ROADWAY CLOSURES AND TRANSITIONS BETWEEN STAGES.
12. THE SPACING OF ALL SIGNS AND THE DISTANCES BETWEEN SIGNS SHOWN IN THE PLAN SHALL MEET THE REQUIREMENTS OF THE 2009 MUTCD. IF THE MINIMUM SPACING BETWEEN SIGNS CANNOT BE MAINTAINED, THE SIGN LOCATIONS SHALL BE ADJUSTED TO PROVIDE THE LARGEST SPACING AVAILABLE.
13. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NON-WORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER.
14. COORDINATE WITH MUSCATINE POWER AND WATER TO RELOCATE FIRE HYDRANTS WHILE TRAFFIC CONTROL IS SET UP.

STAGING NOTES

1. THESE STAGING NOTES ARE NOT INTENDED TO CONFINE THE CONTRACTOR'S ACTIVITIES TO THE AREAS OF SUGGESTED STAGES ALONE. IT IS UNDERSTOOD THAT VARIOUS STEPS INCLUDED HEREIN MAY OCCUR SIMULTANEOUSLY. THE CONTRACTOR MAY CONDUCT SEVERAL OPERATIONS CONCURRENTLY, PROVIDED THAT TRAFFIC IS MAINTAINED AND THESE OPERATIONS DO NOT CONFLICT WITH THE STAGING INDICATED HEREIN, OTHER PORTIONS OF THIS PROJECT, AND OTHER CONSTRUCTION ACTIVITIES.
2. AS LONG AS WORK REMAINS ON THE PROJECT, THE CONTRACTOR SHALL REMAIN ON THE PROJECT. IF ISSUES EXIST WITHIN A STAGE OF THE PROJECT WHICH ARE BEYOND THE CONTRACTOR'S CONTROL (SUCH AS OBSTRUCTIONS OR UTILITY ISSUES), THE ENGINEER HAS THE OPTION TO REVISE THE CONTRACT STAGING AND DIRECT THE CONTRACTOR TO WORK ON OTHER "UNAFFECTED" STAGES OR AREAS OF THE PROJECT AS SHOWN WITHIN THE CONTRACT DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER. THE OWNER MAY, AT THE OWNERS DISCRETION, PROVIDE ADDITIONAL DAYS TO THE CONTRACTOR BASED UPON RELOCATION EFFORTS AND SCHEDULING JUSTIFICATION, IN ACCORDANCE WITH THE SUPPLEMENTARY CONDITIONS.

SIDEWALK NOTES

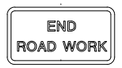
1. AS APPLICABLE, THE FOLLOWING REQUIREMENTS APPLY FOR SIGNING ALTERNATIVE ROUTES FOR SIDEWALKS CLOSED DURING CONSTRUCTION:
   - AN ALTERNATIVE ROUTE IS NOTED.
   - ALTERNATIVE ROUTES FOR CLOSED ADA-COMPLIANT SIDEWALKS SHALL THEMSELVES BE ADA-COMPLIANT.
   - ALTERNATIVE ROUTES FOR CLOSING SIDEWALKS THAT ARE NOT ADA-COMPLIANT SHALL PROVIDE, AT MINIMUM, THE SAME ACCESSIBILITY AS THE CLOSED SIDEWALK.
2. EXCEPT WHEN CONTRACT OPERATIONS ARE OCCURRING WITHIN SIDEWALK AREAS, PEDESTRIAN TRAFFIC SHALL BE MAINTAINED THROUGH WORKSPACES OR TRAFFIC CONTROL ZONES DURING THIS PROJECT. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE FOR SIDEWALK CLOSURES.
3. SIDEWALK REMOVAL AND RECONSTRUCTION SHALL BE STAGED TO MINIMIZE LOSS OF PEDESTRIAN ACCESS TO RESIDENTIAL AND BUSINESS ENTRANCES. MAXIMUM ALLOWABLE LOSS OF ACCESS IS 48-HOURS. ALL WORK AT ENTRANCE SHALL BE COORDINATED WITH THE RESIDENT AND/OR BUSINESS OWNER.
4. REFER TO STANDARD DETAIL 8030.117 FOR SIDEWALK CLOSURE INFORMATION AND STANDARDS.
5. THE CONTRACTOR IS TO OBTAIN SIDEWALK TRAFFIC CONTROL APPROVAL FROM THE CITY PRIOR TO IMPLEMENTATION.
6. SIDEWALK TRAFFIC CONTROL SHALL REMAIN IN PLACE UNTIL SIDEWALKS ARE REPLACED AND ACCESSIBLE.
7. THE COST FOR THE SIDEWALK ACCOMMODATIONS IS INCIDENTAL TO THE COST OF TRAFFIC CONTROL.
8. CONTRACTOR TO NOTIFY ORGANIZATION FOR THE VISUALLY IMPAIRED OF A CHANGE IN TRAFFIC CONTROL A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.

PROPERTY OWNER ACCESS

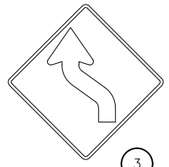
1. RESIDENTIAL AND COMMERCIAL DRIVEWAYS MUST HAVE HALF WIDTH REMAIN OPEN FOR CONSTRUCTION OF PCC DRIVEWAYS.
2. CONSECUTIVE ACCESS POINTS SERVING THE SAME BUSINESS OR RESIDENCE SHALL NOT BE CLOSED CONCURRENTLY DURING STAGING OPERATIONS. ALTERNATIVE ACCESS MUST BE AVAILABLE IF A DRIVEWAY IS FULLY CLOSED.
3. CONTRACTOR SHALL COORDINATE WITH THE CITY OF MUSCATINE SOLID WASTE DIVISION TO ENSURE THAT RESIDENTS RESIDING IN THE CONSTRUCTION ZONE HAVE THEIR GARBAGE COLLECTED EVERY WEEK, INCLUDING BUT NOT LIMITED TO PROVIDING A COLLECTION AREA OUTSIDE OF THE CONSTRUCTION ZONE IF NECESSARY. IT SHALL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR TO TRANSPORT COLLECTION CANISTERS TO AND FROM THE COLLECTION AREA.
4. THE CONTRACTOR SHALL COORDINATE OR MAKE ACCOMMODATIONS IN THE CONSTRUCTION AREA FOR MAIL AND PARCEL DELIVERY SERVICE, PARKING, DRIVEWAY AND EMERGENCY VEHICLE ACCESS.

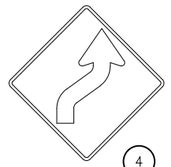


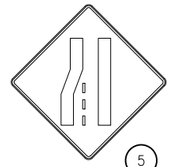
1 W20-1 48" X 48"

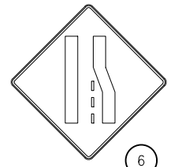


2 G20-2 48" X 24"


3 W1-4L 48" X 48"


4 W1-4R 48" X 48"


5 W4-2L 48" X 48"


6 W4-2R 48" X 48"



7 W20-5L 48" X 48"



8 W20-5R 48" X 48"



9 R3-7R 36" X 36"



10 R9-9 24" X 12"



11 R9-11aR 24" X 12"



12 R9-11aL 24" X 12"



13 W20-3A 48" X 48"



14 R3-5R 30" X 36"



15 R11-2 48" X 30"


16 R3-1R 36" X 36"


17 R3-1L 36" X 36"



18 M4-9L 30" X 30"



19 M4-9L 30" X 30"



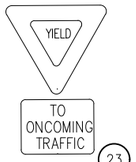
20 M4-8 30" X 15" W16-8P 30" X 15" M5-1L 30" X 21"



21 M4-8 30" X 15" W16-8P 30" X 15" M5-1R 30" X 21"



22 R5-1 30" X 30"



23 R1-2 48" X 48" X 48" R1-2A 36" X 30"



24 W20-4 48" X 48"

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PHASING PLAN



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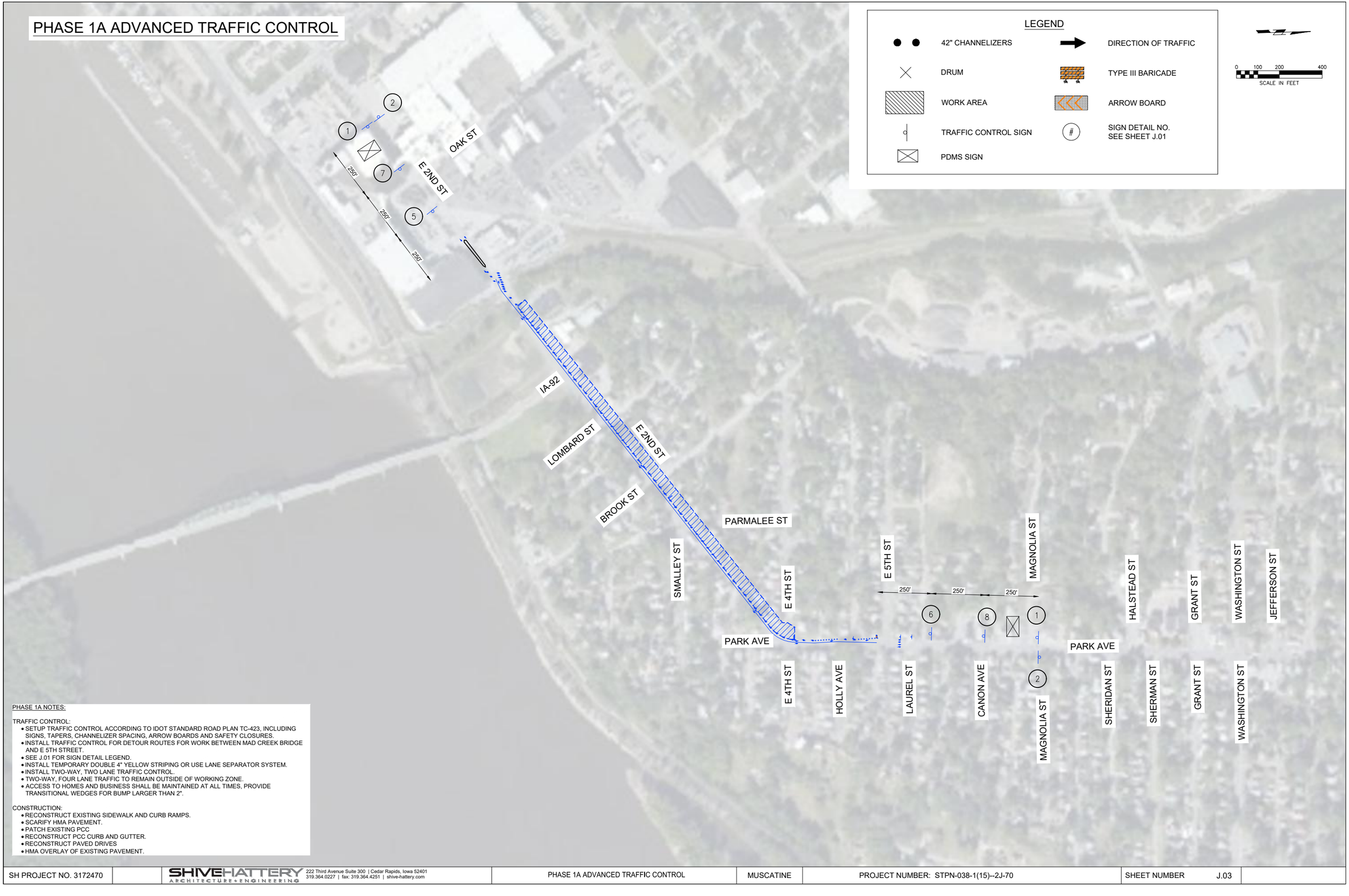
PHASE 1A ADVANCED TRAFFIC CONTROL



PHASE 1A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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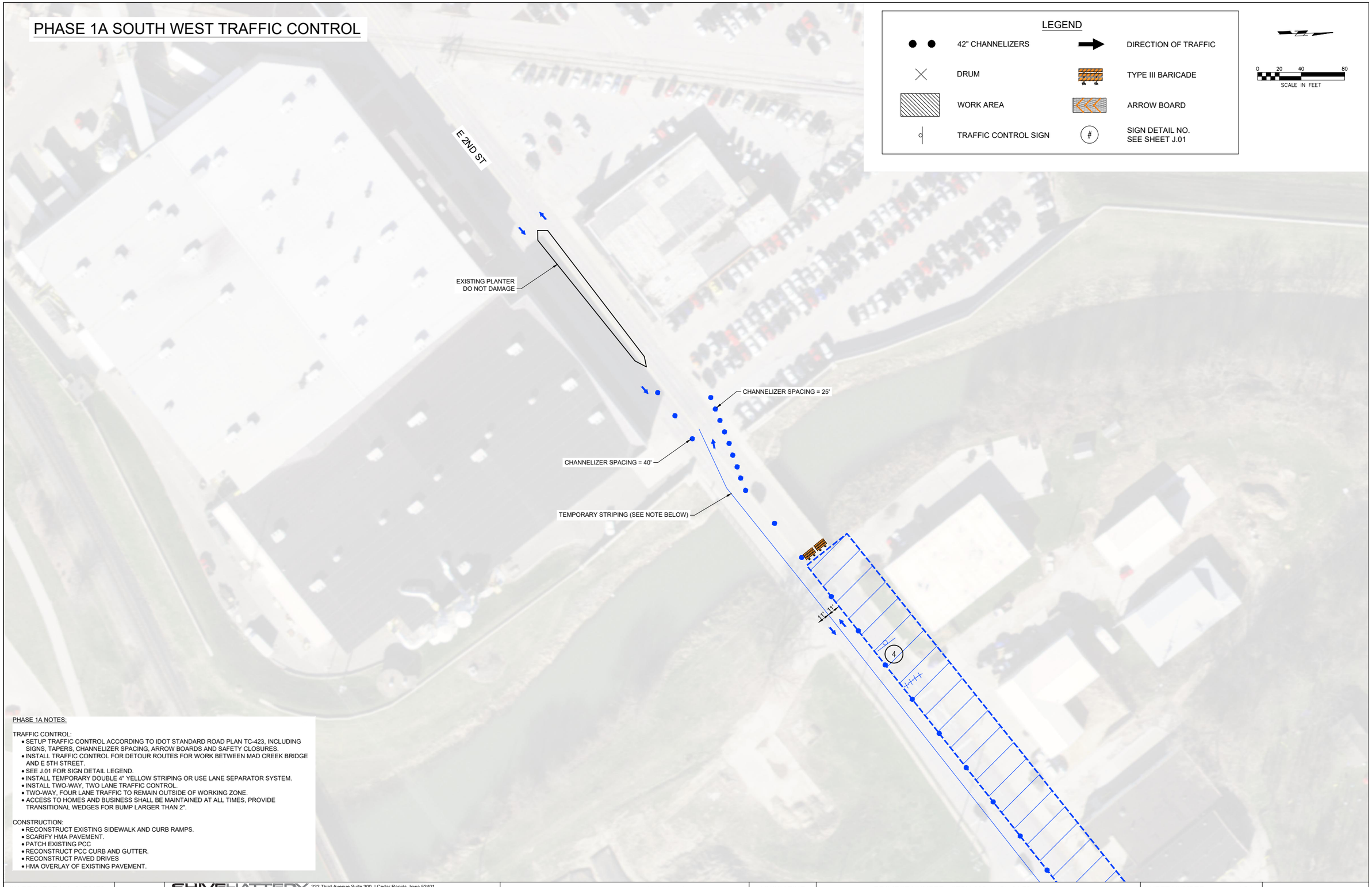
PHASE 1A SOUTH WEST TRAFFIC CONTROL



LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

PHASE 1A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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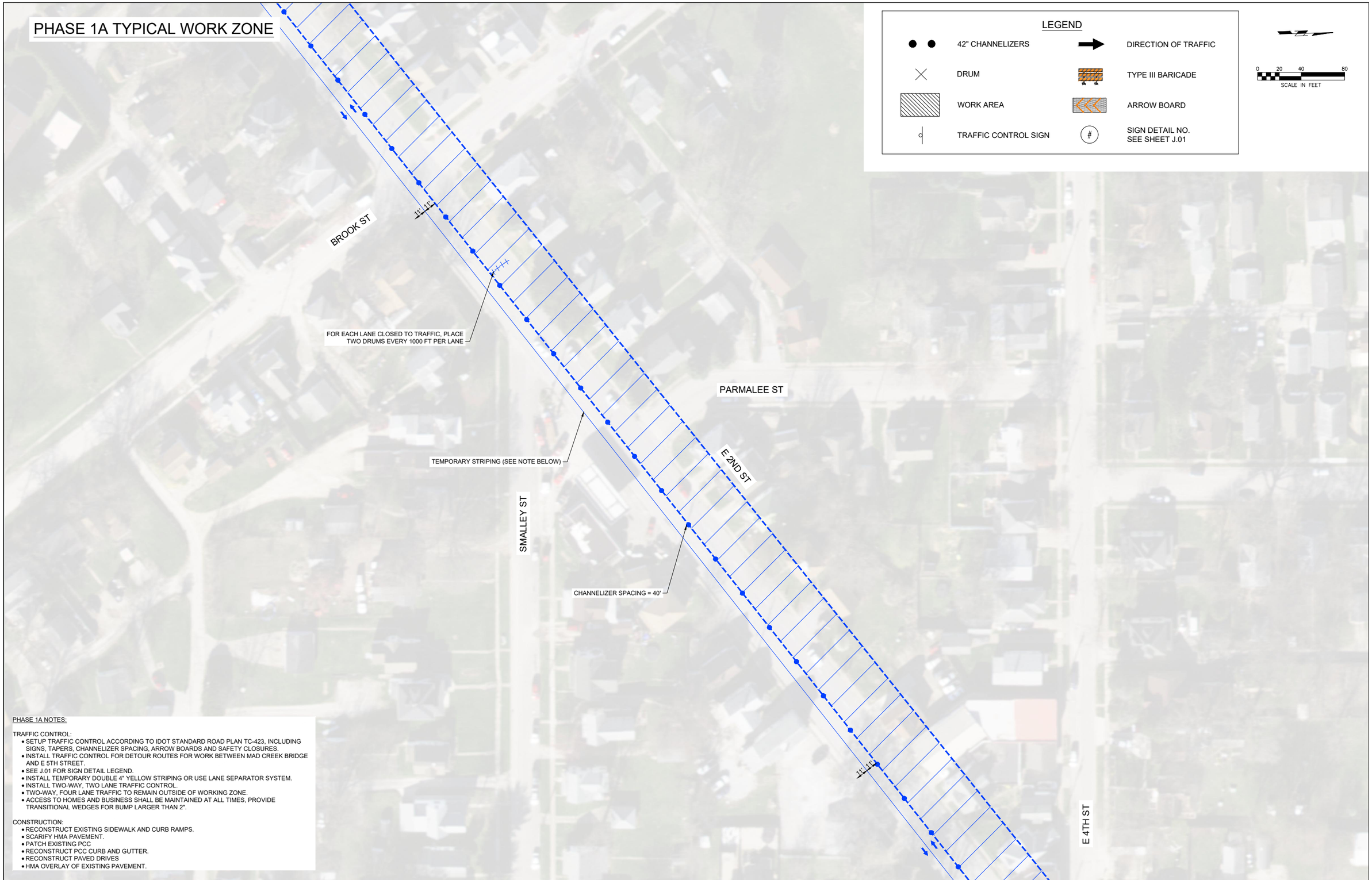
PHASE 1A TYPICAL WORK ZONE



PHASE 1A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401
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SH PROJECT NO. 3172470		PHASE 1A TYPICAL WORK ZONE	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER J.05	

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PHASE 1A NORTH TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # — SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

E 2ND ST
E 4TH ST
E 5TH ST
WILLOW ST
PARK AVE
E 4TH ST
HOLLY ST
LAUREL ST
CANNON AVE

CHANNELIZER SPACING = 40'
DRUM SPACING = 35'
DRUM SPACING = 35'
ARROW BOARD
TEMPORARY STRIPING (SEE NOTE BELOW)
3
9
14

PHASE 1A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

Plot Date: 3/31/2020 8:36 AM
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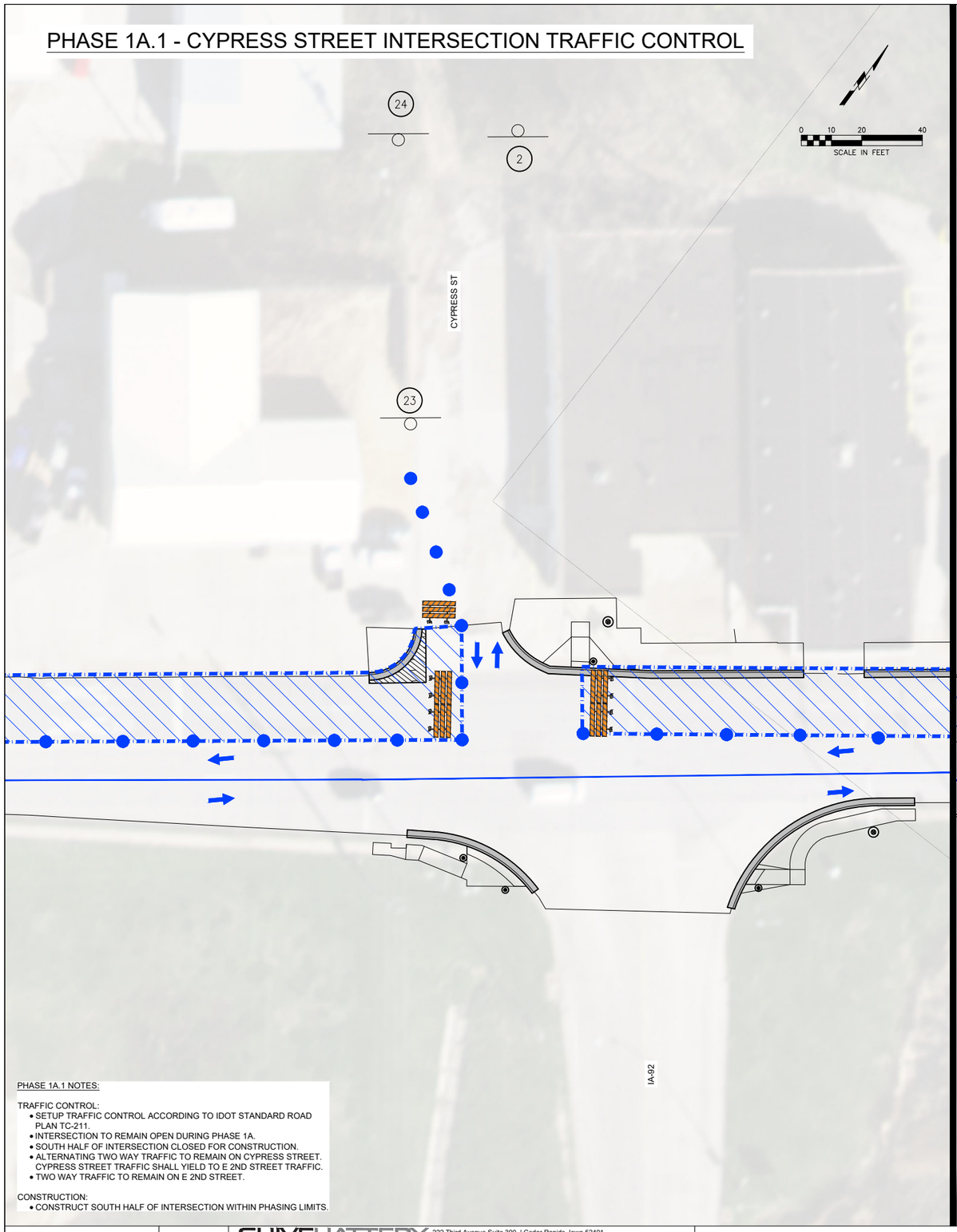
PHASE 1A.1 - CYPRESS STREET INTERSECTION TRAFFIC CONTROL

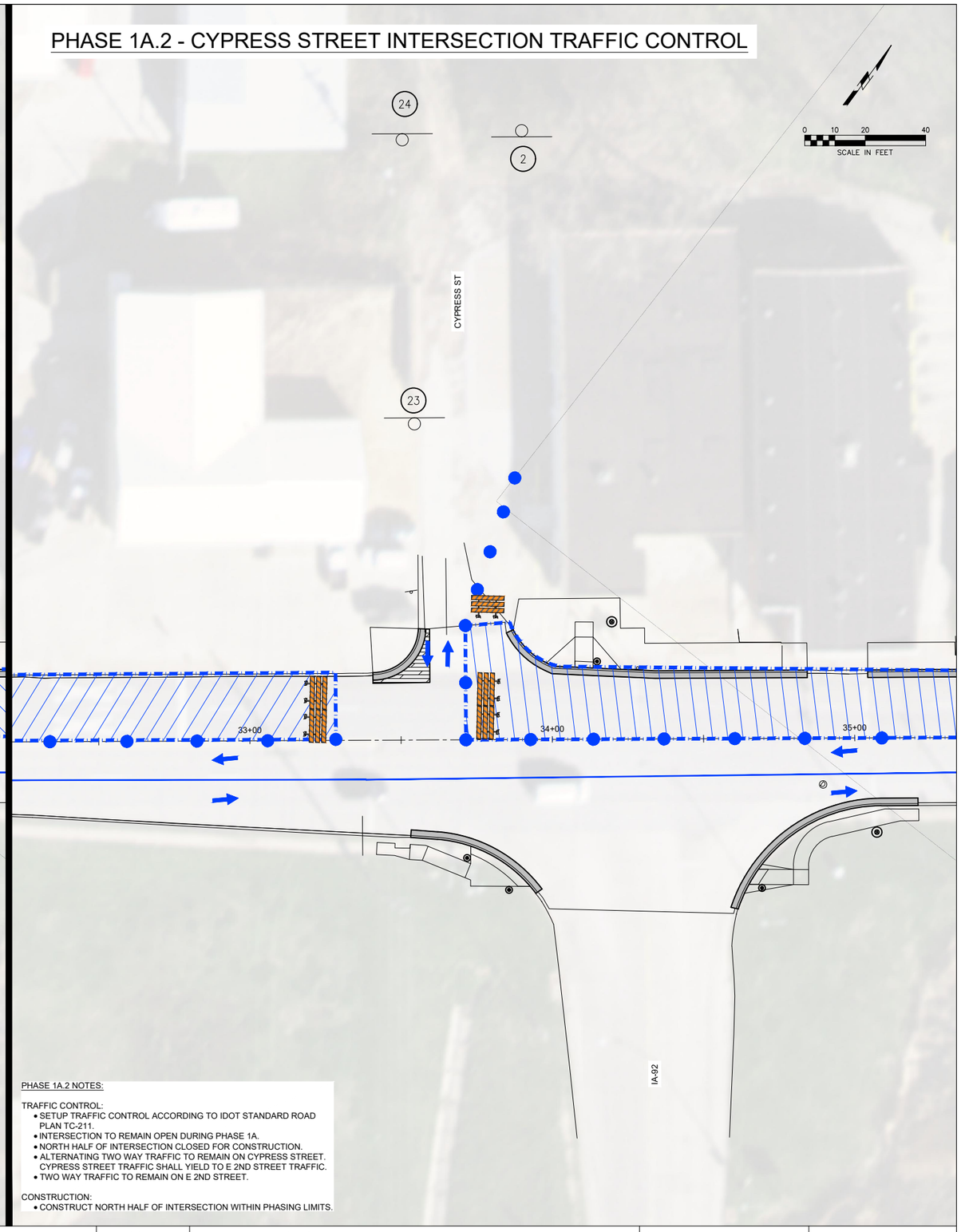


PHASE 1A.1 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 1A.
- SOUTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON CYPRESS STREET. CYPRESS STREET TRAFFIC SHALL YIELD TO E 2ND STREET TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON E 2ND STREET.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 1A.2 - CYPRESS STREET INTERSECTION TRAFFIC CONTROL



PHASE 1A.2 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 1A.
- NORTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON CYPRESS STREET. CYPRESS STREET TRAFFIC SHALL YIELD TO E 2ND STREET TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON E 2ND STREET.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

Plot Date: 3/31/2020 8:38 AM
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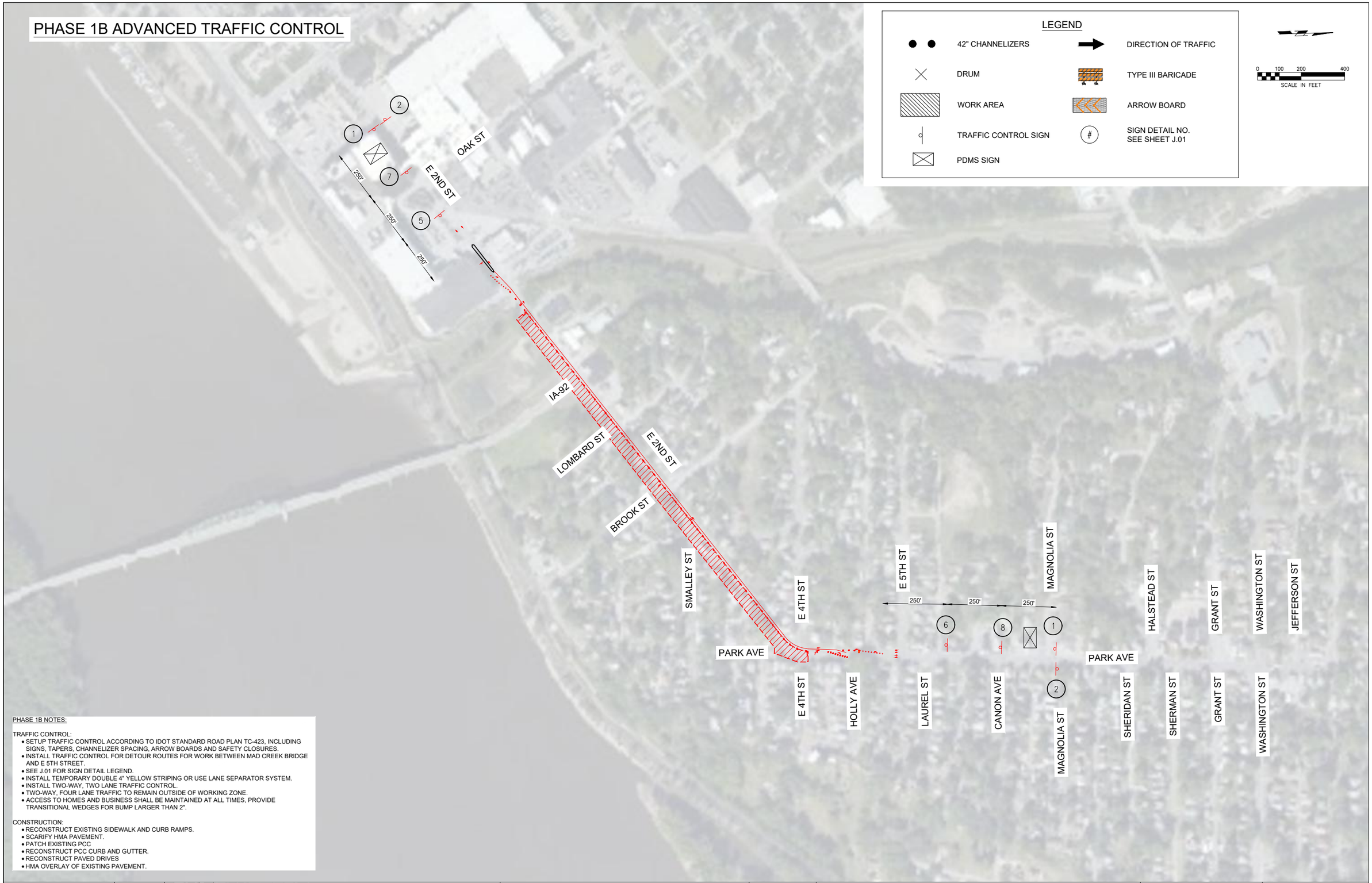
PHASE 1B ADVANCED TRAFFIC CONTROL



PHASE 1B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

Plot Date: 3/31/2020 8:39 AM
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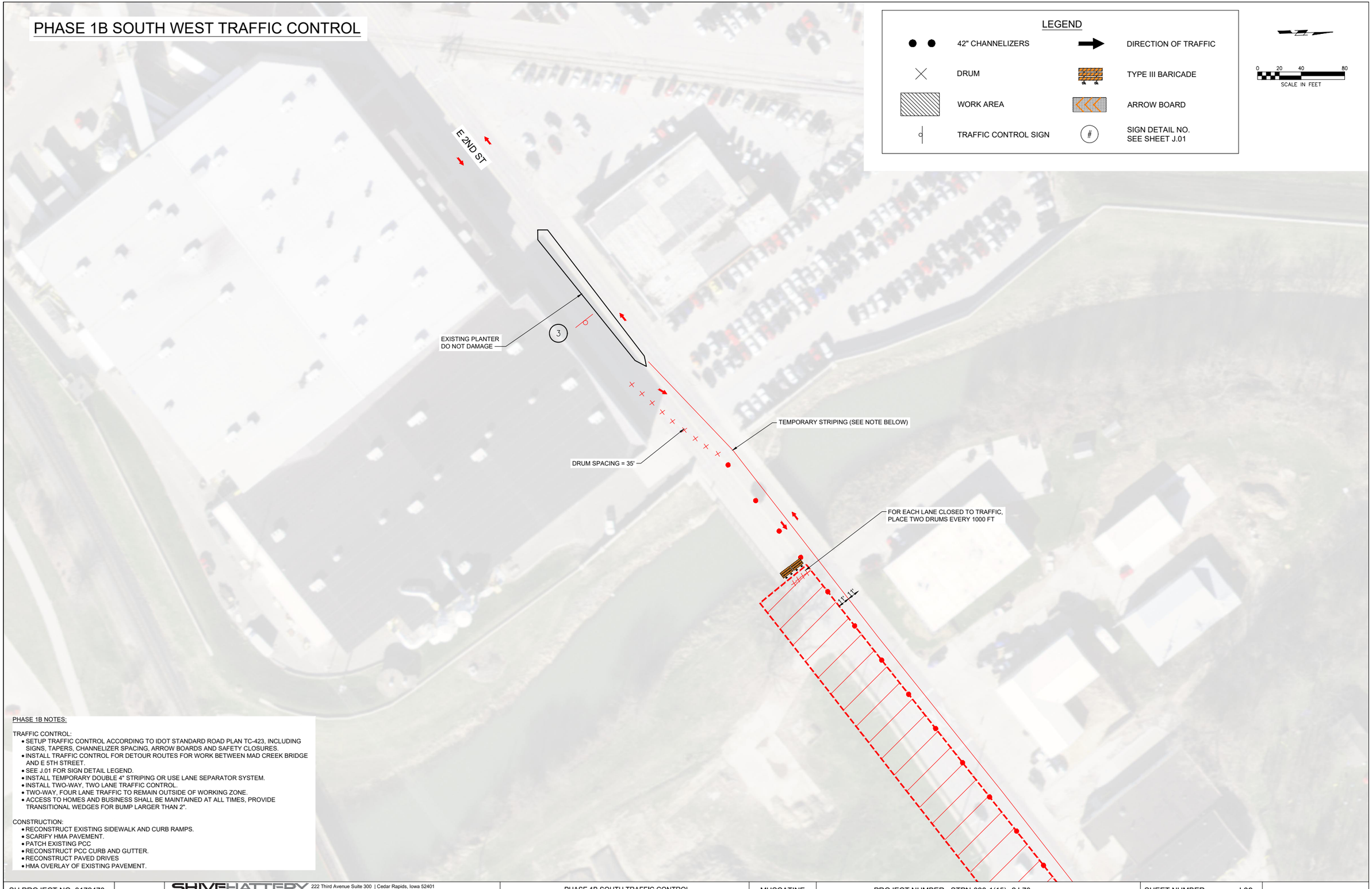
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	PHASE 1B ADVANCED TRAFFIC CONTROL	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER J.08	

PHASE 1B SOUTH WEST TRAFFIC CONTROL



PHASE 1B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 1B TYPICAL WORK ZONE



LEGEND

42" CHANNELIZERS	DIRECTION OF TRAFFIC
DRUM	TYPE III BARICADE
WORK AREA	ARROW BOARD
TRAFFIC CONTROL SIGN	SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

PHASE 1B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 1B NORTH TRAFFIC CONTROL



PHASE 1B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 1B.1 - LOMBARD STREET INTERSECTION TRAFFIC CONTROL

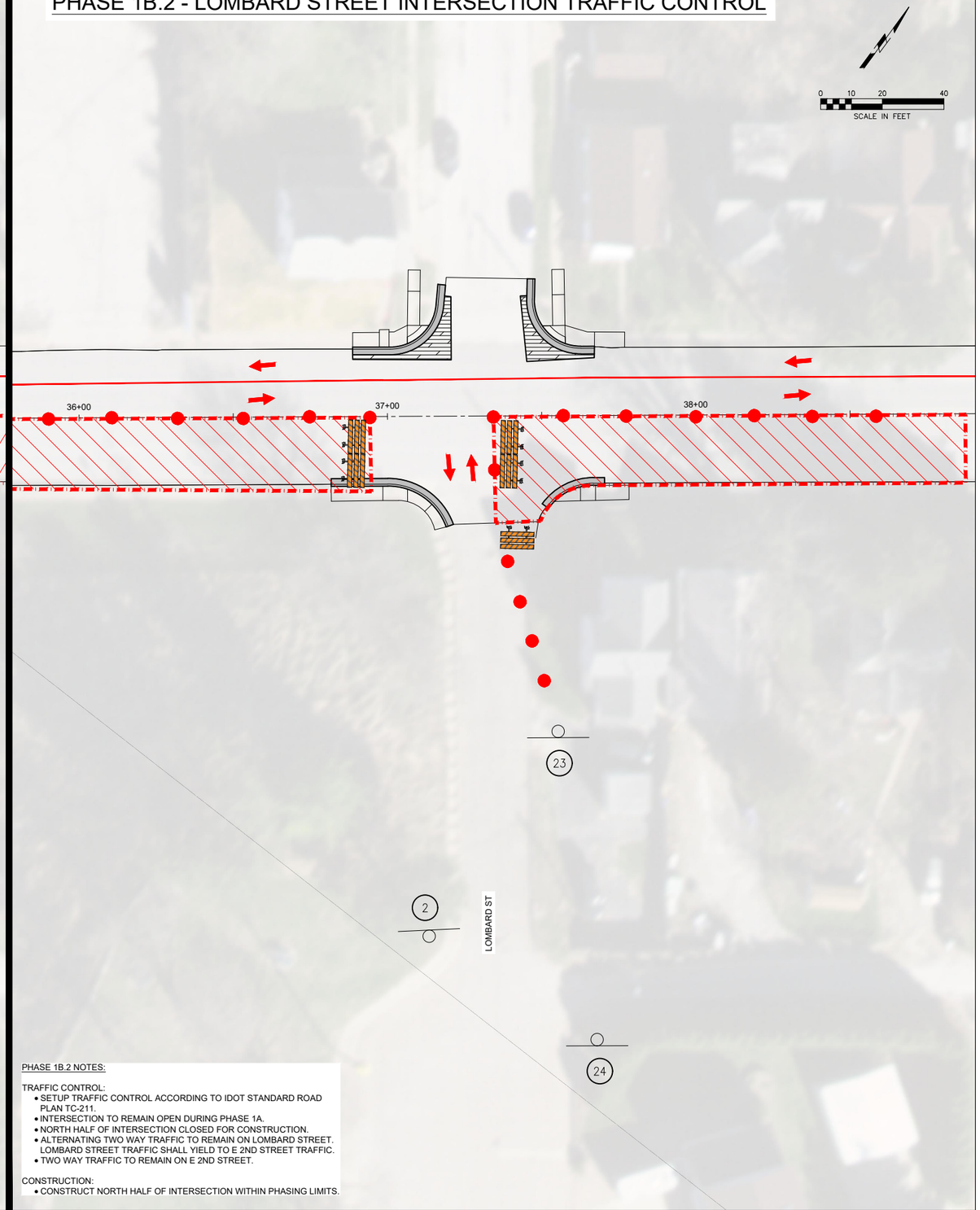


PHASE 1B.1 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 1B.
- SOUTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON LOMBARD STREET. LOMBARD STREET TRAFFIC SHALL YIELD TO E 2ND STREET TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON E 2ND STREET.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 1B.2 - LOMBARD STREET INTERSECTION TRAFFIC CONTROL



PHASE 1B.2 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 1A.
- NORTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON LOMBARD STREET. LOMBARD STREET TRAFFIC SHALL YIELD TO E 2ND STREET TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON E 2ND STREET.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

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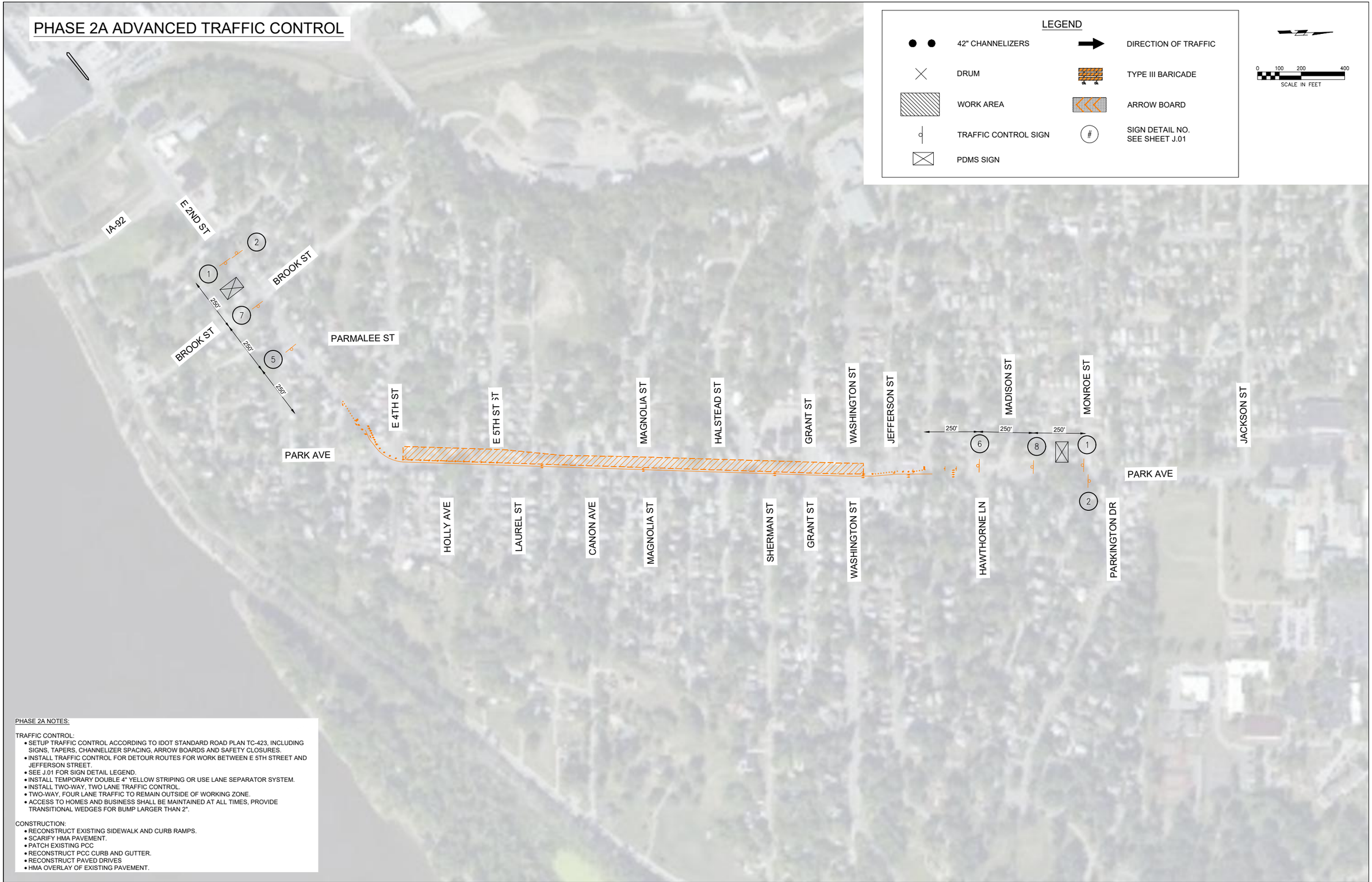
PHASE 2A ADVANCED TRAFFIC CONTROL



PHASE 2A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN E 5TH STREET AND JEFFERSON STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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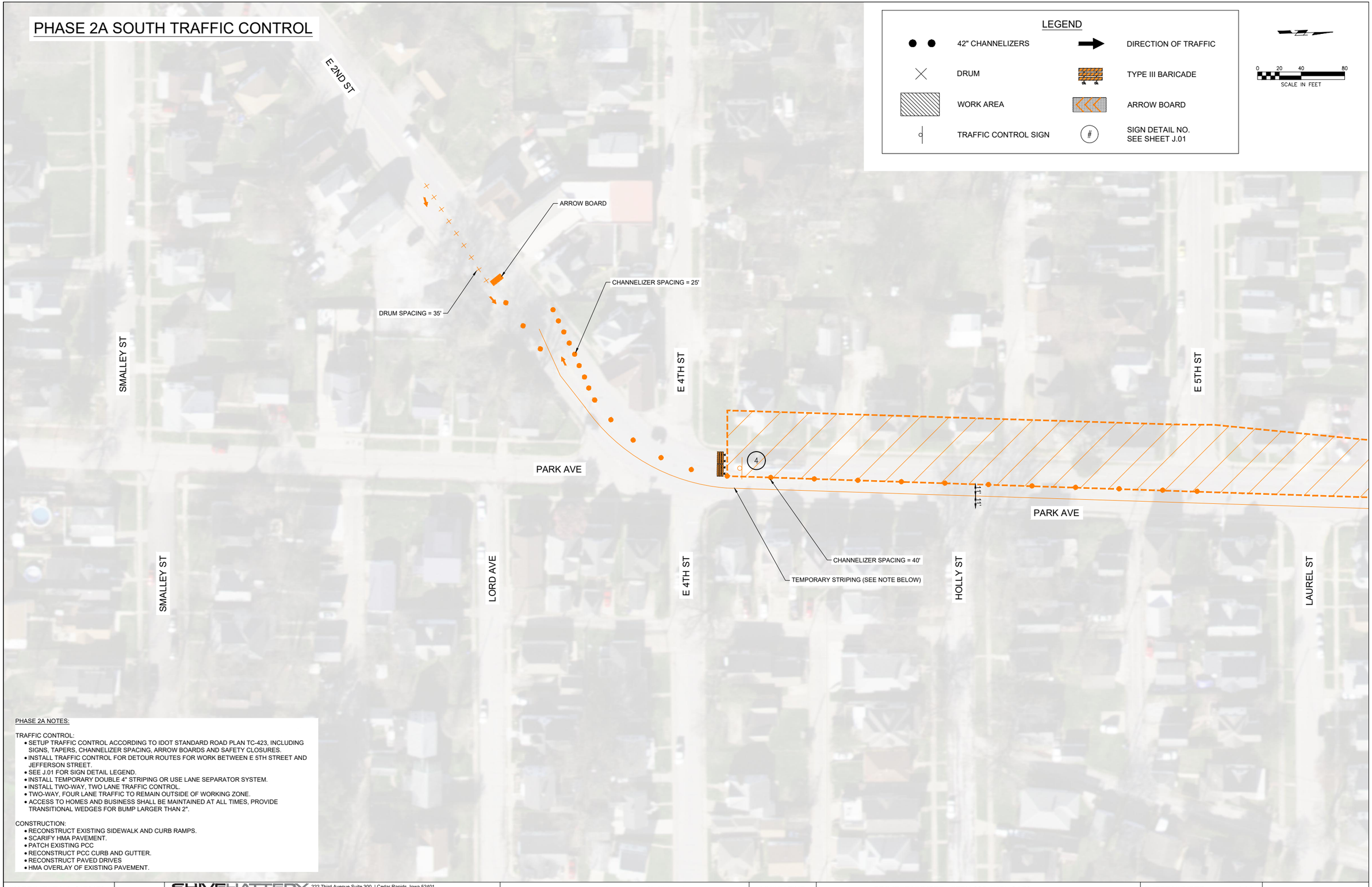
PHASE 2A SOUTH TRAFFIC CONTROL



LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

PHASE 2A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN E 5TH STREET AND JEFFERSON STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

PHASE 2A TYPICAL WORK ZONE

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

WILLOW ST
MAGNOLIA ST
HALSTEAD ST
PARK AVE
CANON AVE
MAGNOLIA ST
SHERIDAN ST
SHERMAN ST
PARK AVE
TEMPORARY STRIPING (SEE NOTE BELOW)
CHANNELIZER SPACING = 40'

PHASE 2A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN E 5TH STREET AND JEFFERSON STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 2A NORTH TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # — SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET



PHASE 2A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 4TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA STREETS.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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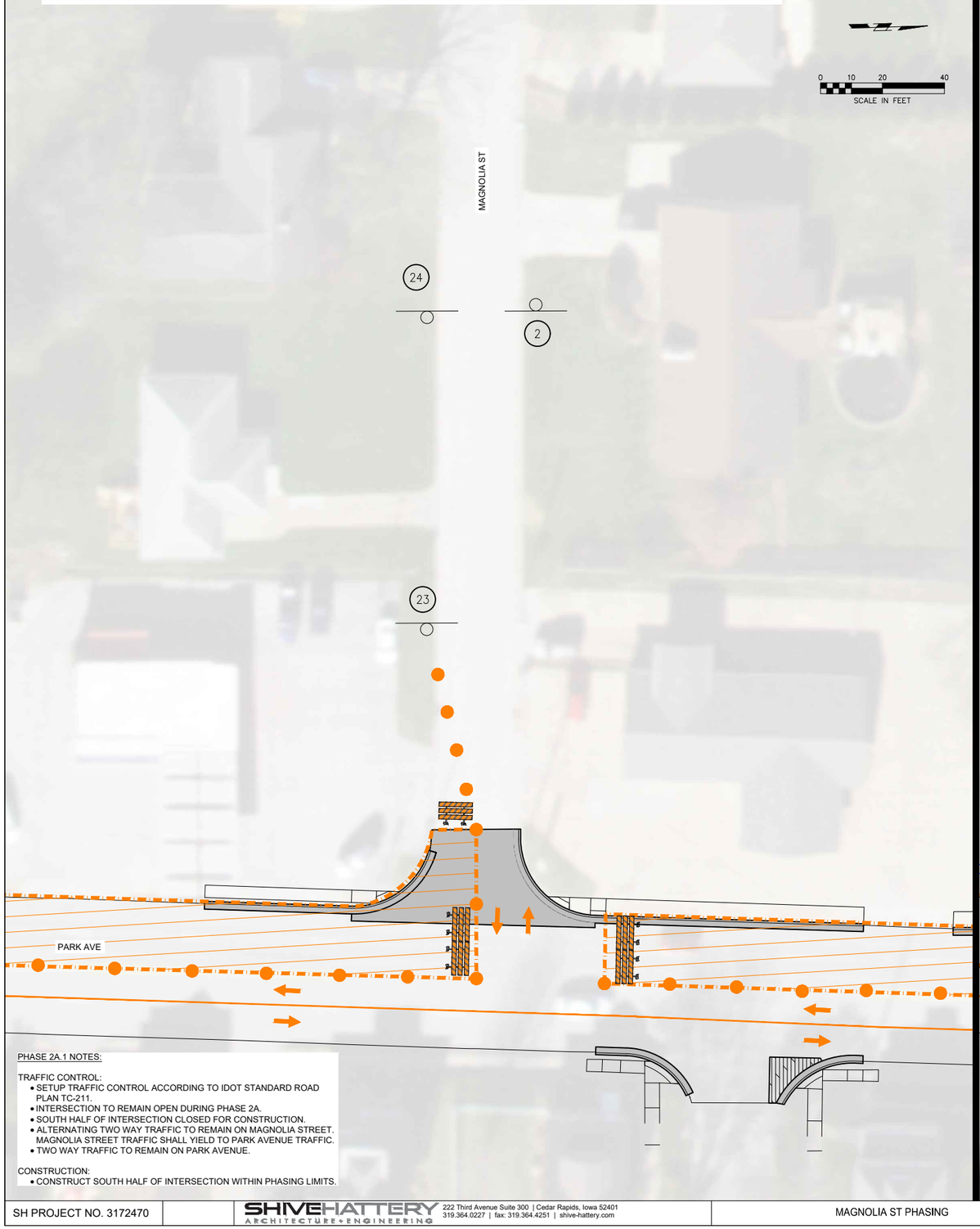
PHASE 2A.1 - MAGNOLIA STREET INTERSECTION TRAFFIC CONTROL

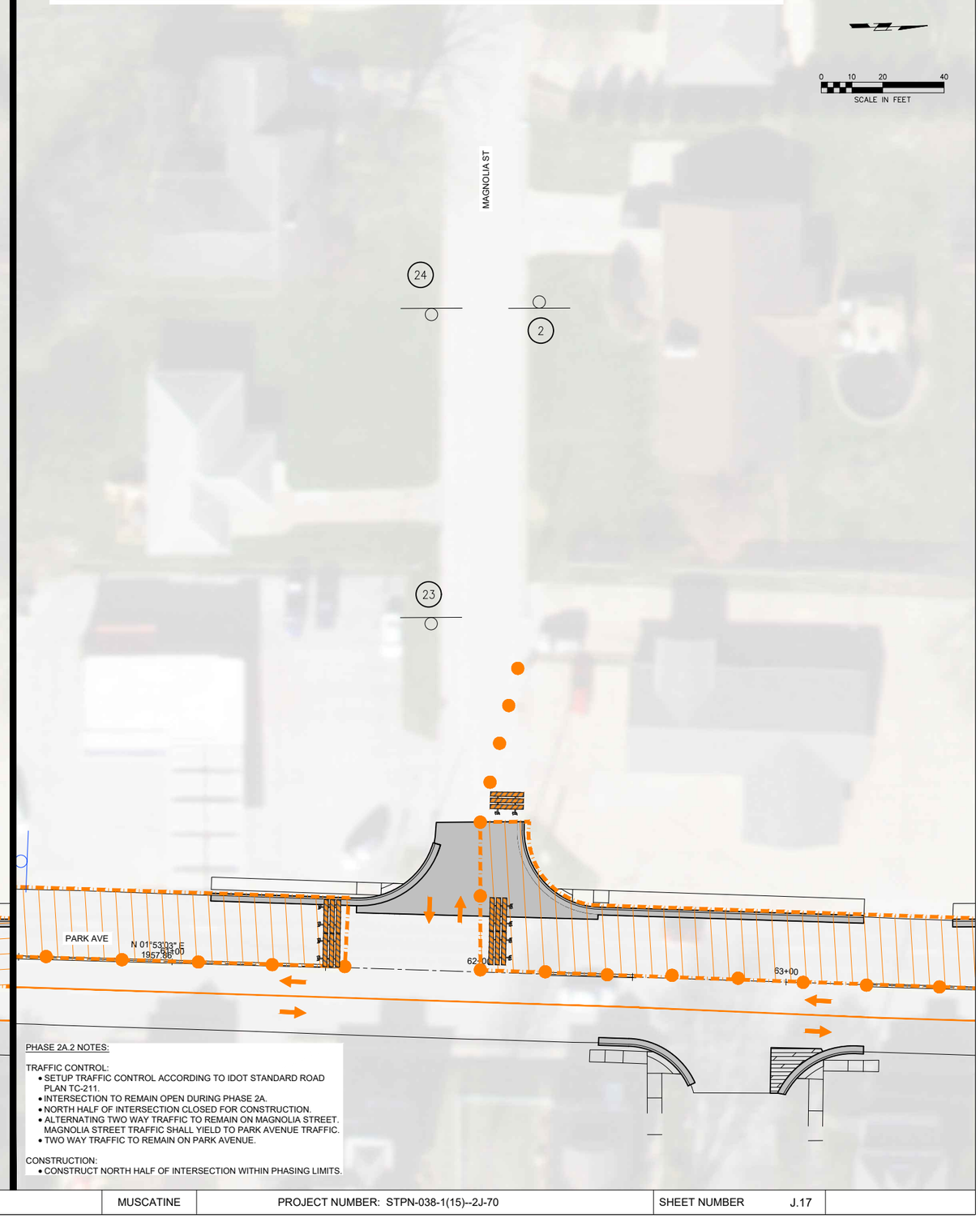


PHASE 2A.1 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- SOUTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON MAGNOLIA STREET. MAGNOLIA STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 2A.2 - MAGNOLIA STREET INTERSECTION TRAFFIC CONTROL



PHASE 2A.2 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- NORTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON MAGNOLIA STREET. MAGNOLIA STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

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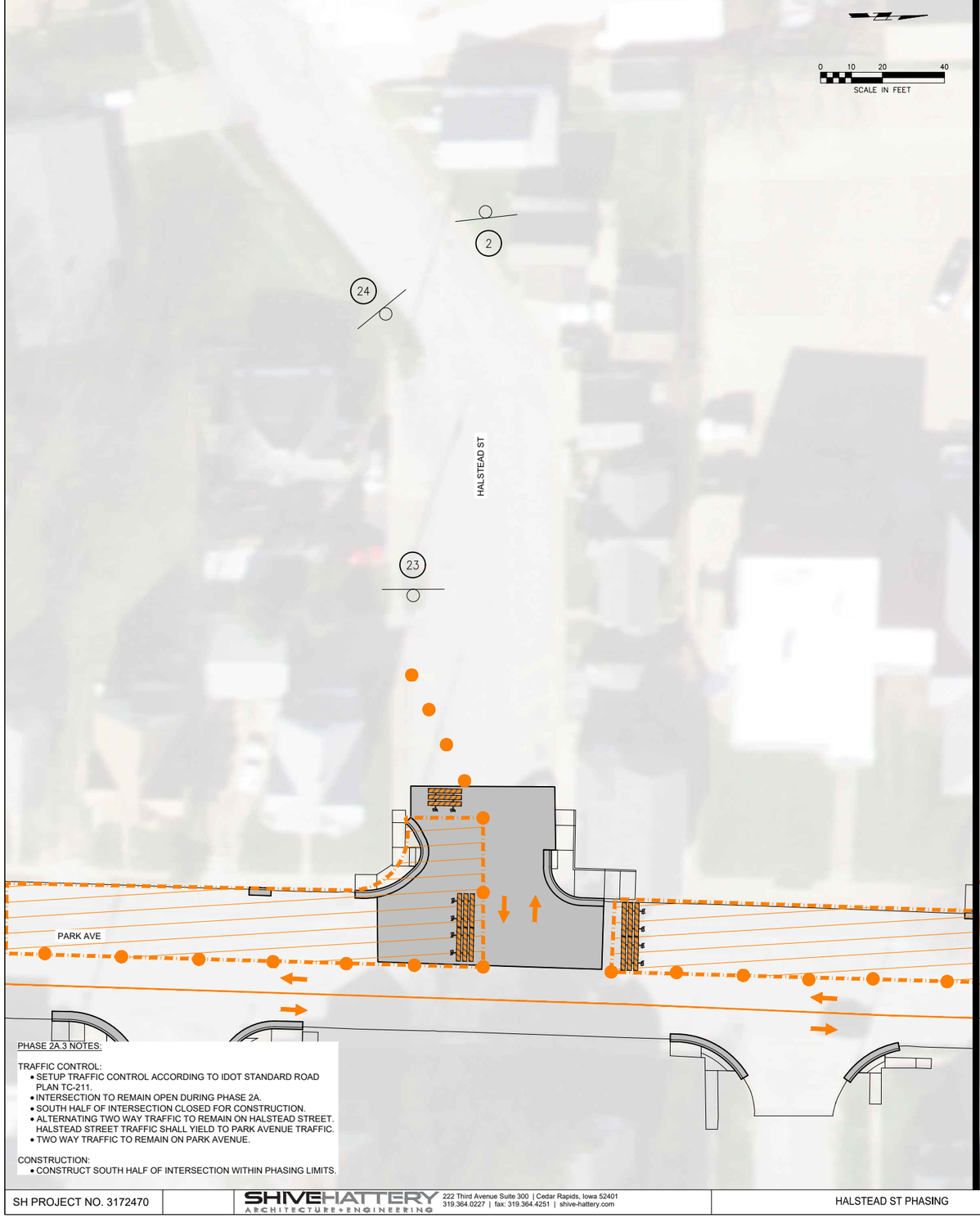
PHASE 2A.3 - HALSTEAD STREET INTERSECTION TRAFFIC CONTROL

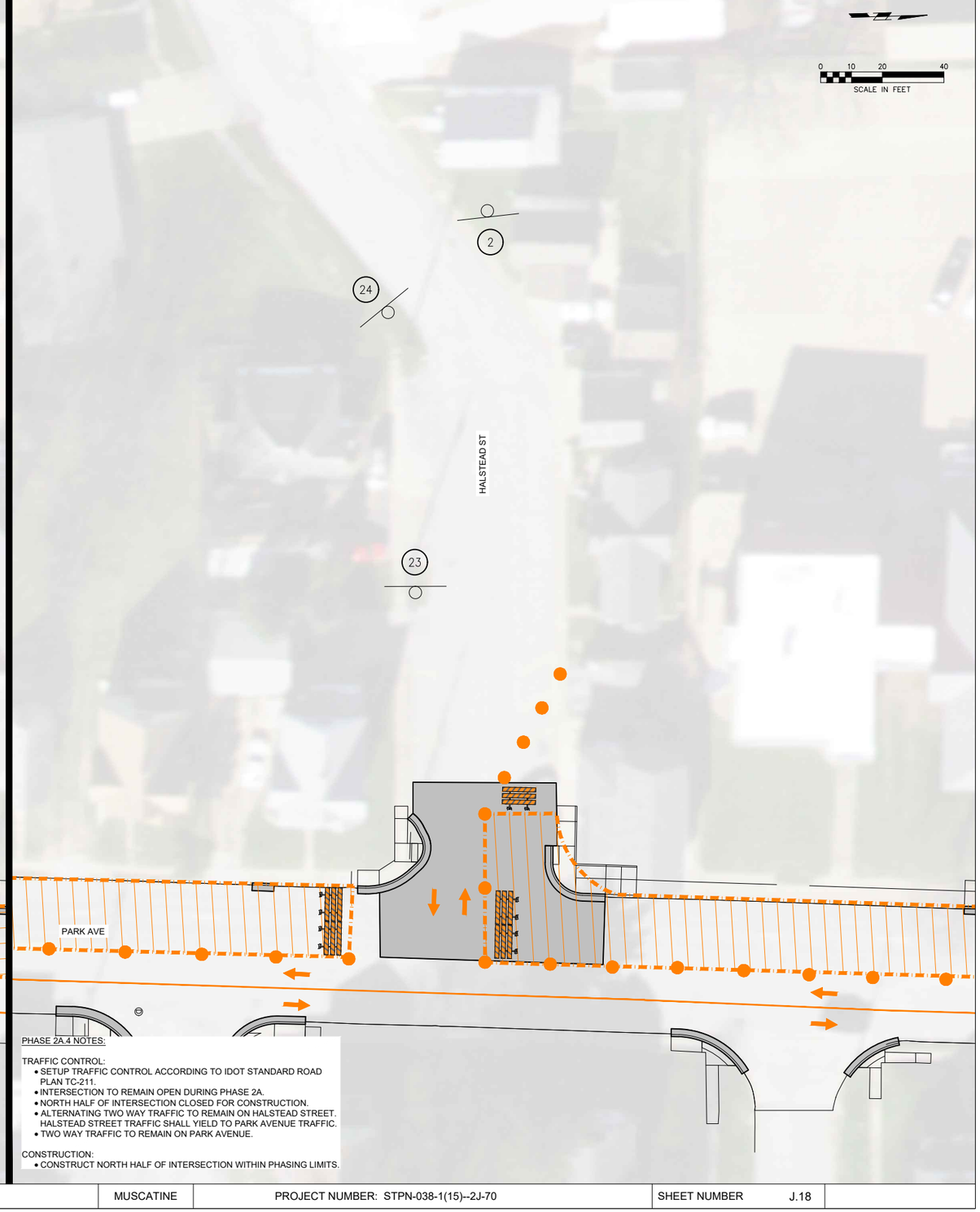


PHASE 2A.3 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- SOUTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON HALSTEAD STREET. HALSTEAD STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 2A.4 - HALSTEAD STREET INTERSECTION TRAFFIC CONTROL



PHASE 2A.4 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- NORTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON HALSTEAD STREET. HALSTEAD STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

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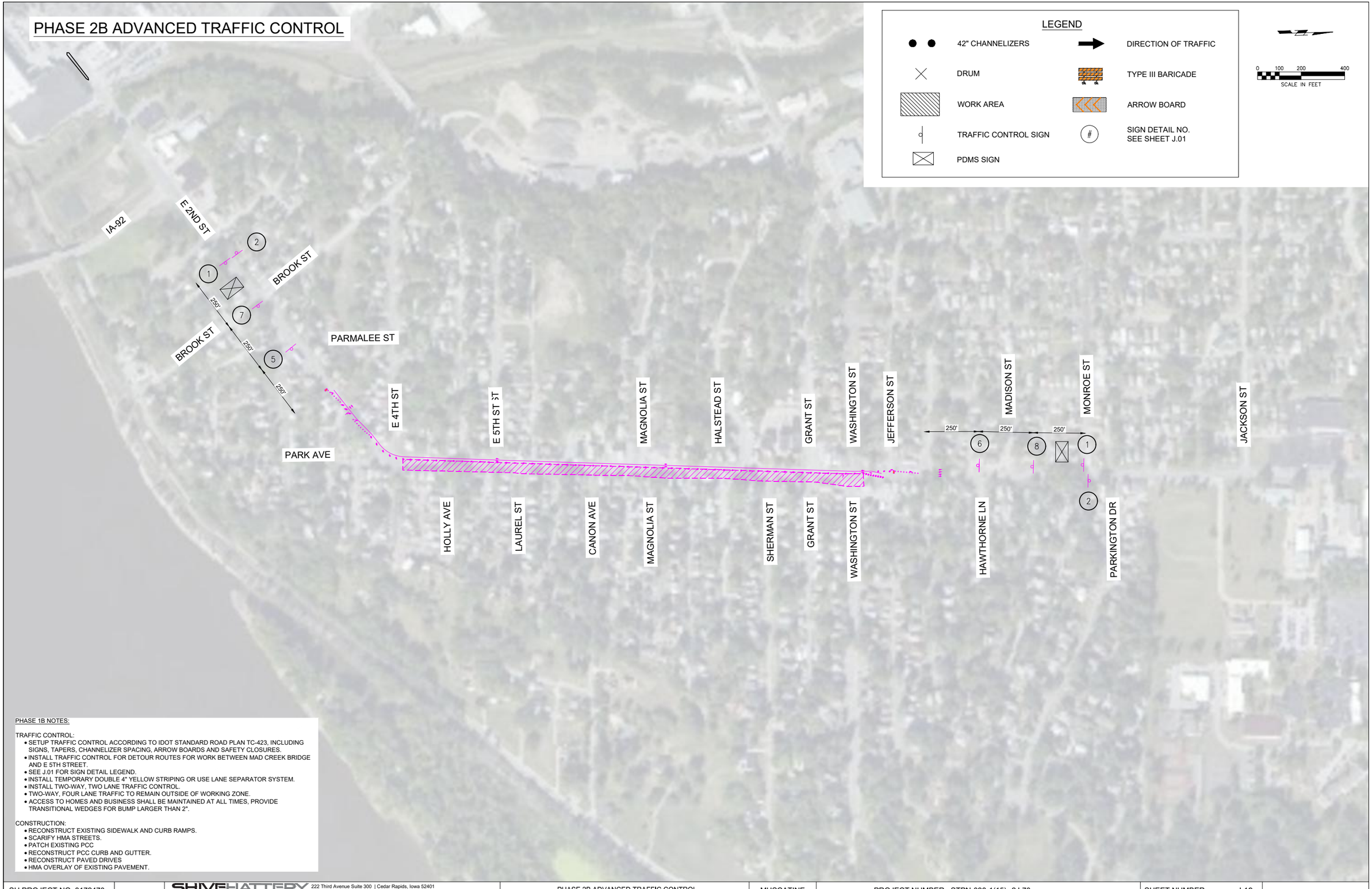
PHASE 2B ADVANCED TRAFFIC CONTROL

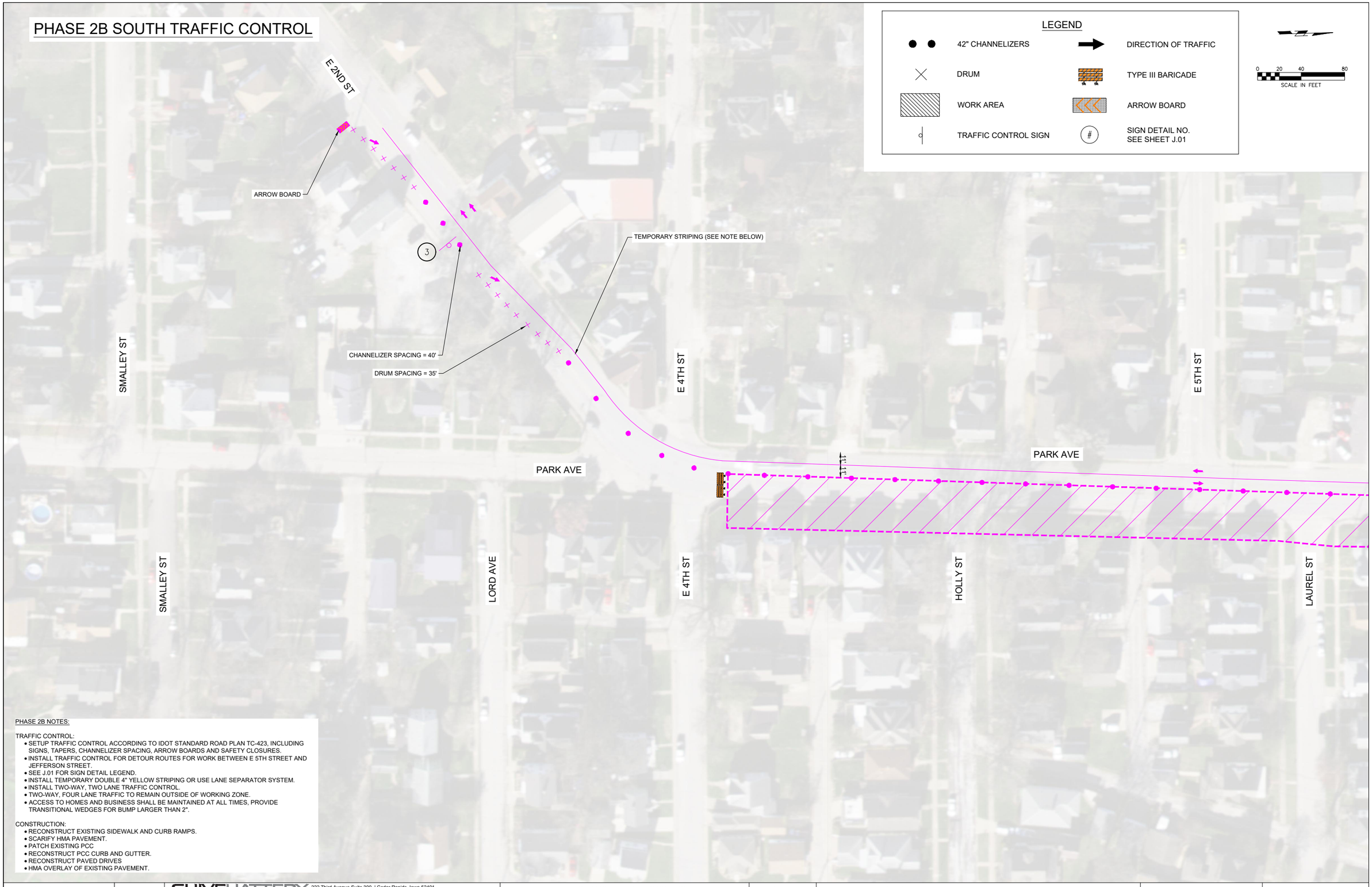


PHASE 1B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN MAD CREEK BRIDGE AND E 5TH STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA STREETS.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

PHASE 2B SOUTH TRAFFIC CONTROL



LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

PHASE 2B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN E 5TH STREET AND JEFFERSON STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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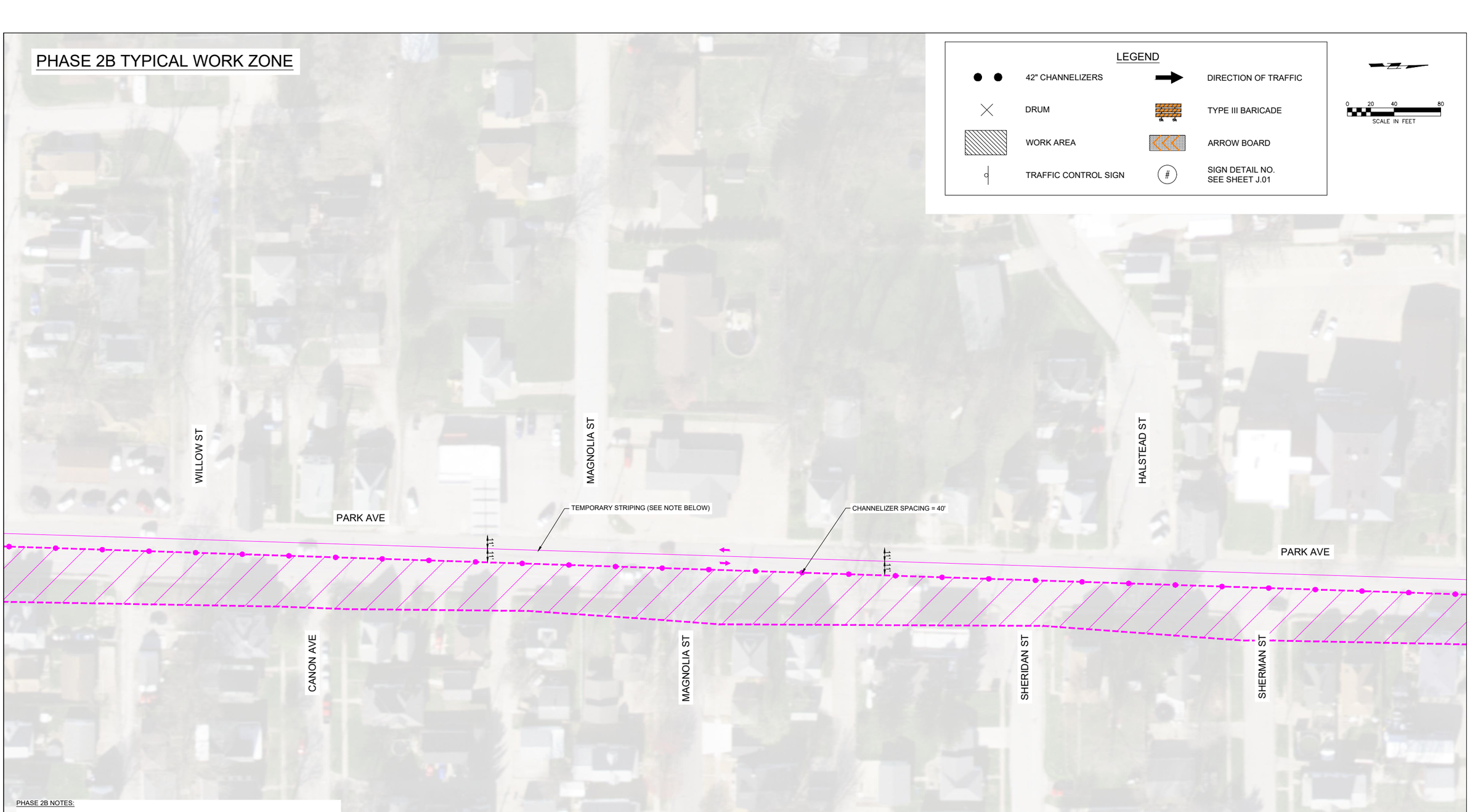
PHASE 2B TYPICAL WORK ZONE

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET



PHASE 2B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN E 5TH STREET AND JEFFERSON STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING	PHASE 2B TYPICAL WORK ZONE	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER J.21

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PHASE 2B NORTH TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

GRANT ST
WASHINGTON ST
JEFFERSON ST
MADISON ST
PARK AVE
11'-11"
4
TEMPORARY STRIPING (SEE NOTE BELOW)
CHANNELIZER SPACING = 40'
DRUM SPACING = 35'
ARROW BOARD
CHANELIZER SPACING = 25'
GRANT ST
WASHINGTON ST
HAWTHORNE LN

PHASE 2B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN E 5TH STREET AND JEFFERSON STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 2B.1 - SHERIDAN STREET INTERSECTION TRAFFIC CONTROL

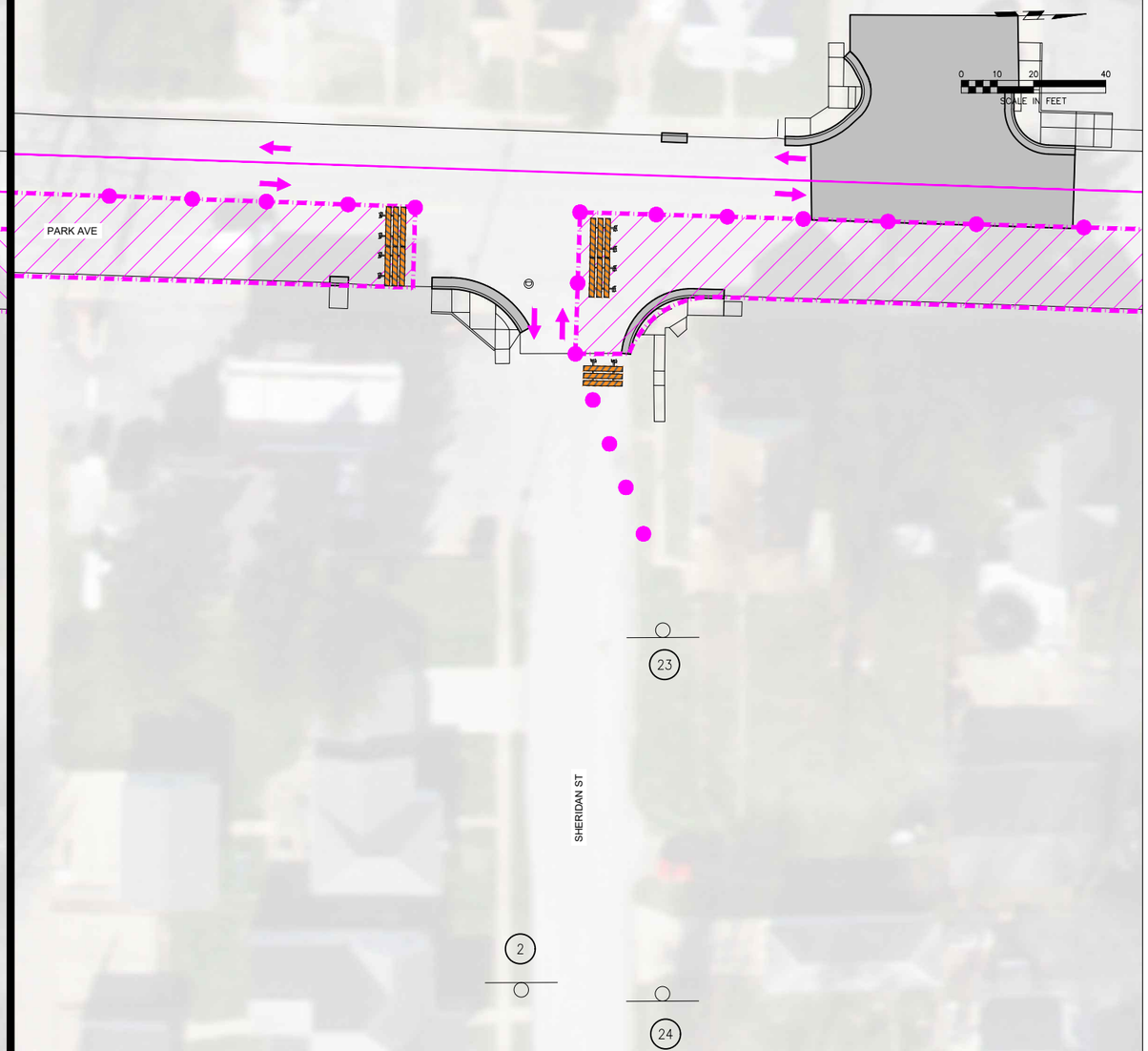


PHASE 2B.1 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- SOUTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON SHERIDAN STREET. SHERIDAN STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 2B.2 - SHERIDAN STREET INTERSECTION TRAFFIC CONTROL



PHASE 2B.2 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- NORTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON SHERIDAN STREET. SHERIDAN STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

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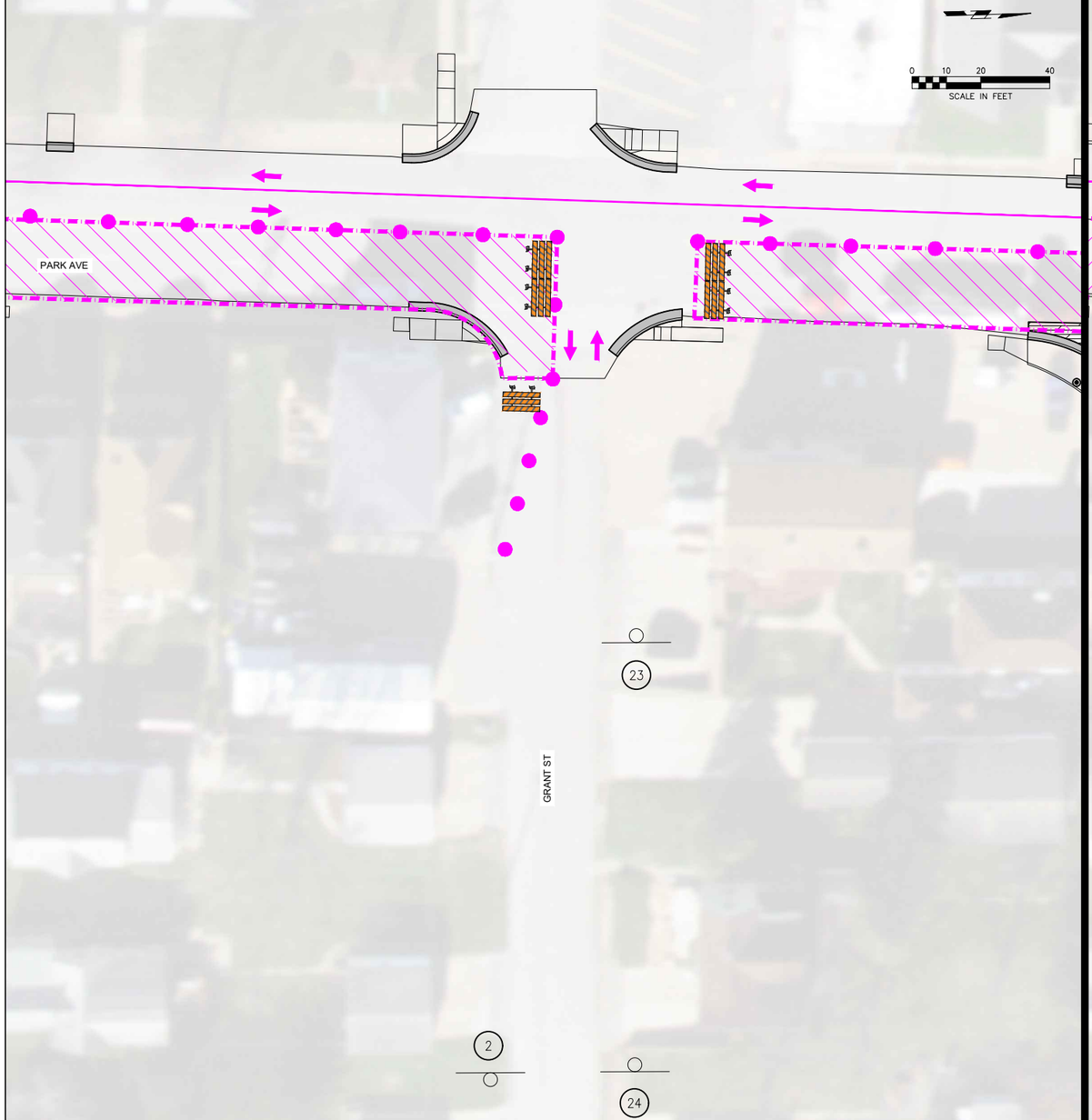
PHASE 2B.3 - GRANT STREET INTERSECTION TRAFFIC CONTROL

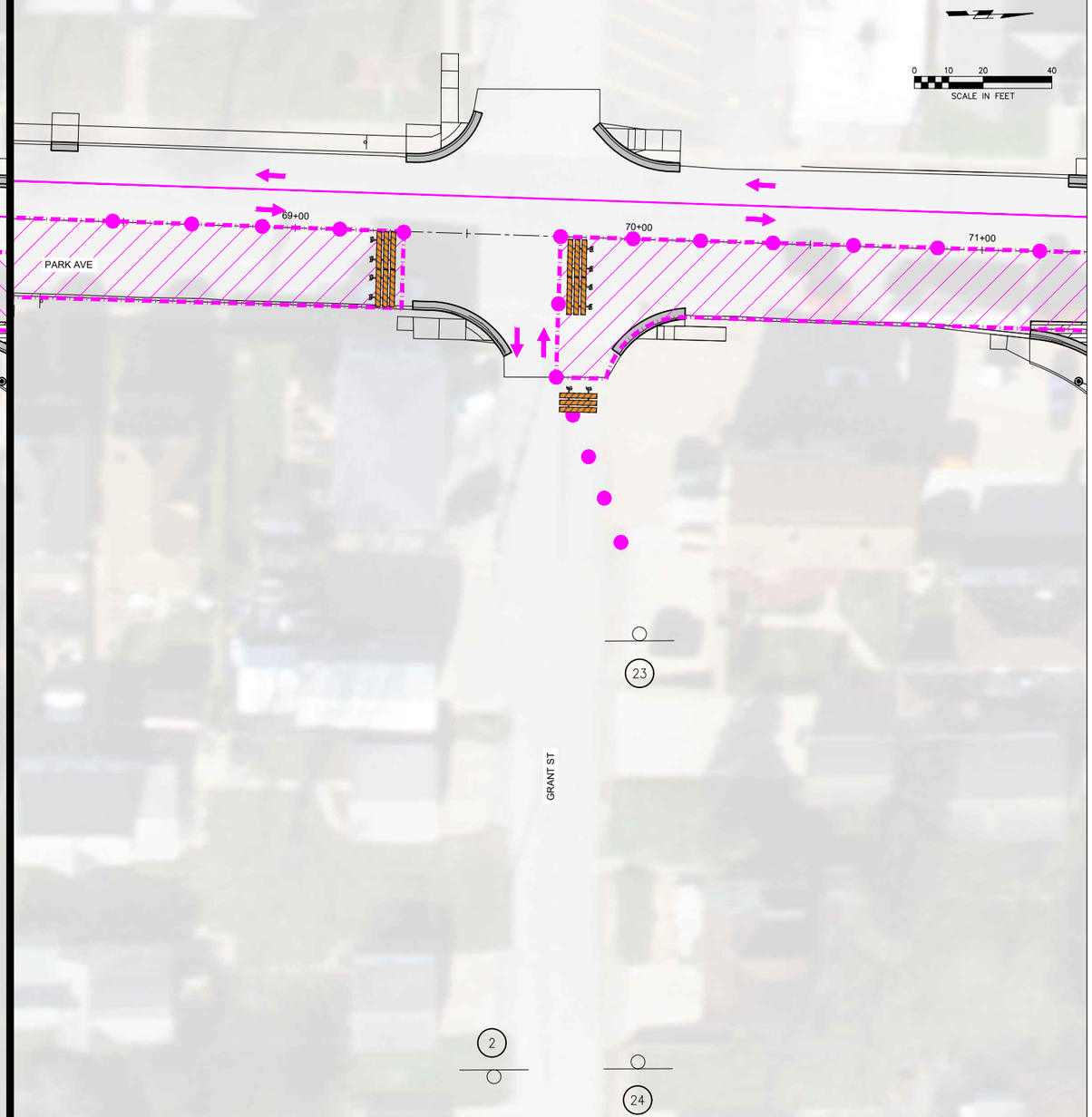


PHASE 2B.3 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- SOUTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON GRANT STREET. GRANT STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 2B.4 - GRANT STREET INTERSECTION TRAFFIC CONTROL



PHASE 2B.4 NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-211.
- INTERSECTION TO REMAIN OPEN DURING PHASE 2A.
- NORTH HALF OF INTERSECTION CLOSED FOR CONSTRUCTION.
- ALTERNATING TWO WAY TRAFFIC TO REMAIN ON GRANT STREET. GRANT STREET TRAFFIC SHALL YIELD TO PARK AVENUE TRAFFIC.
- TWO WAY TRAFFIC TO REMAIN ON PARK AVENUE.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

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PHASE 3A ADVANCED TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- PDMS SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- SIGN DETAIL NO. SEE SHEET J.01

0 100 200 400
SCALE IN FEET



PHASE 3A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 3A SOUTH TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # — SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

HALSTEAD ST.
GRANT ST.
WASHINGTON ST.
JEFFERSON ST.
PARK AVE.
ARROW BOARD
4
DRUM SPACING = 35'
CHANNELIZER SPACING = 40'
TEMPORARY STRIPING (SEE NOTE BELOW)
PARK AVE.
SHERIDAN ST.
SHERMAN ST.
GRANT ST.
WASHINGTON ST.
HAWTHORNE LN.

PHASE 3A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 3A TYPICAL WORK ZONE

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

MONROE ST

JACKSON ST

PARK AVE

PARK AVE

TEMPORARY STRIPING (SEE NOTE BELOW)

CHANNELIZER SPACING = 40'

PARKINGTON DR

PHASE 3A NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
- TWO-WAY, FOUR LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 3A NORTH TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

CLAY ST.

CHANNELIZER SPACING = 40'

ARROW BOARD

HARRISON ST.

3

PARK AVE.

PARK AVE.

DRUM SPACING = 35'

TEMPORARY STRIPING (SEE NOTE BELOW)

COLORADO ST.

HARRISON ST.

PHASE 3A NOTES:

TRAFFIC CONTROL:

- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
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- ACCESS TO HOMES AND BUSINESS SHALL BE MAINTAINED AT ALL TIMES, PROVIDE TRANSITIONAL WEDGES FOR BUMP LARGER THAN 2".

CONSTRUCTION:

- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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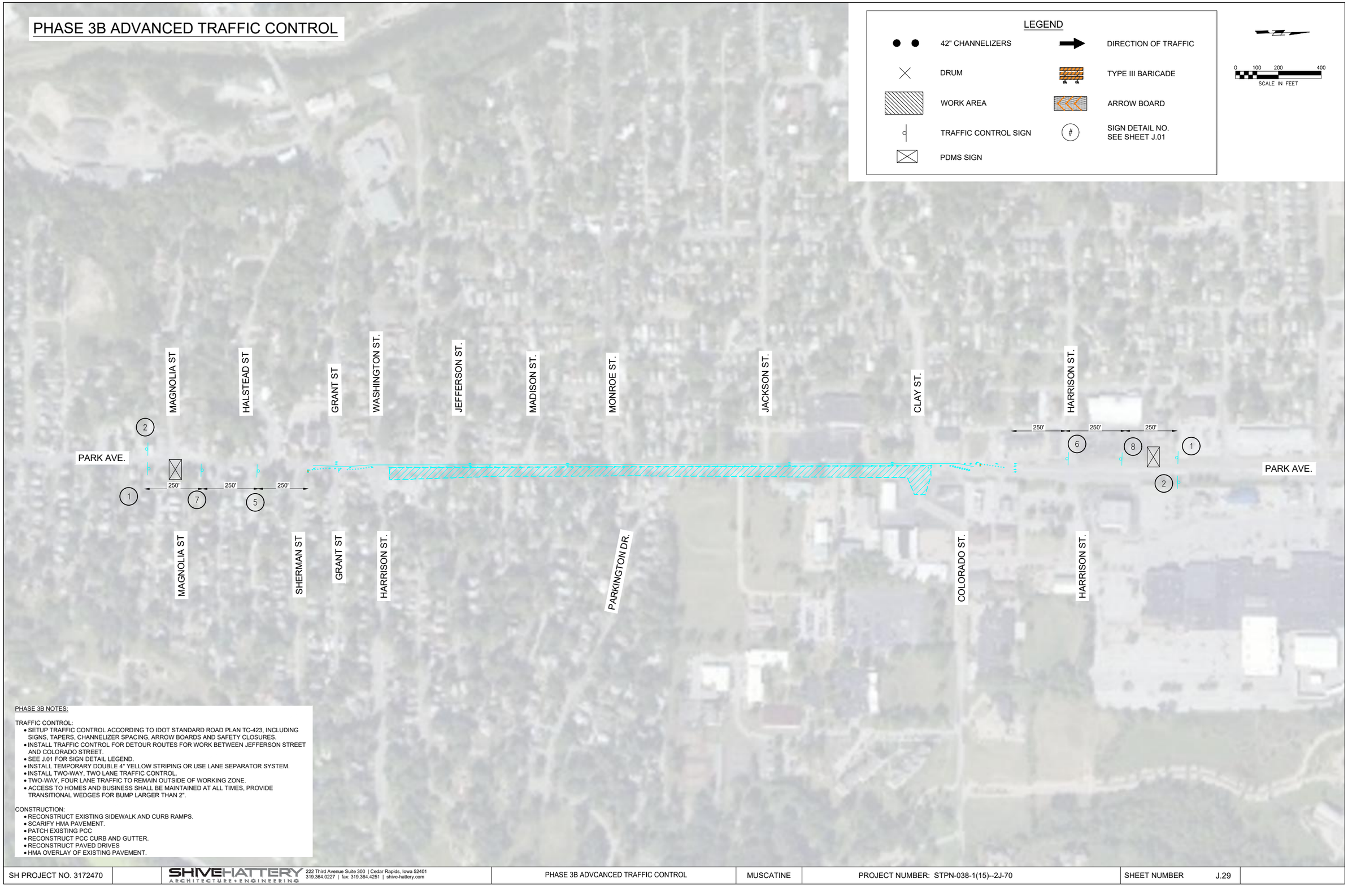
PHASE 3B ADVANCED TRAFFIC CONTROL



PHASE 3B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
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- INSTALL TWO-WAY, TWO LANE TRAFFIC CONTROL.
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CONSTRUCTION:
- RECONSTRUCT EXISTING SIDEWALK AND CURB RAMPS.
- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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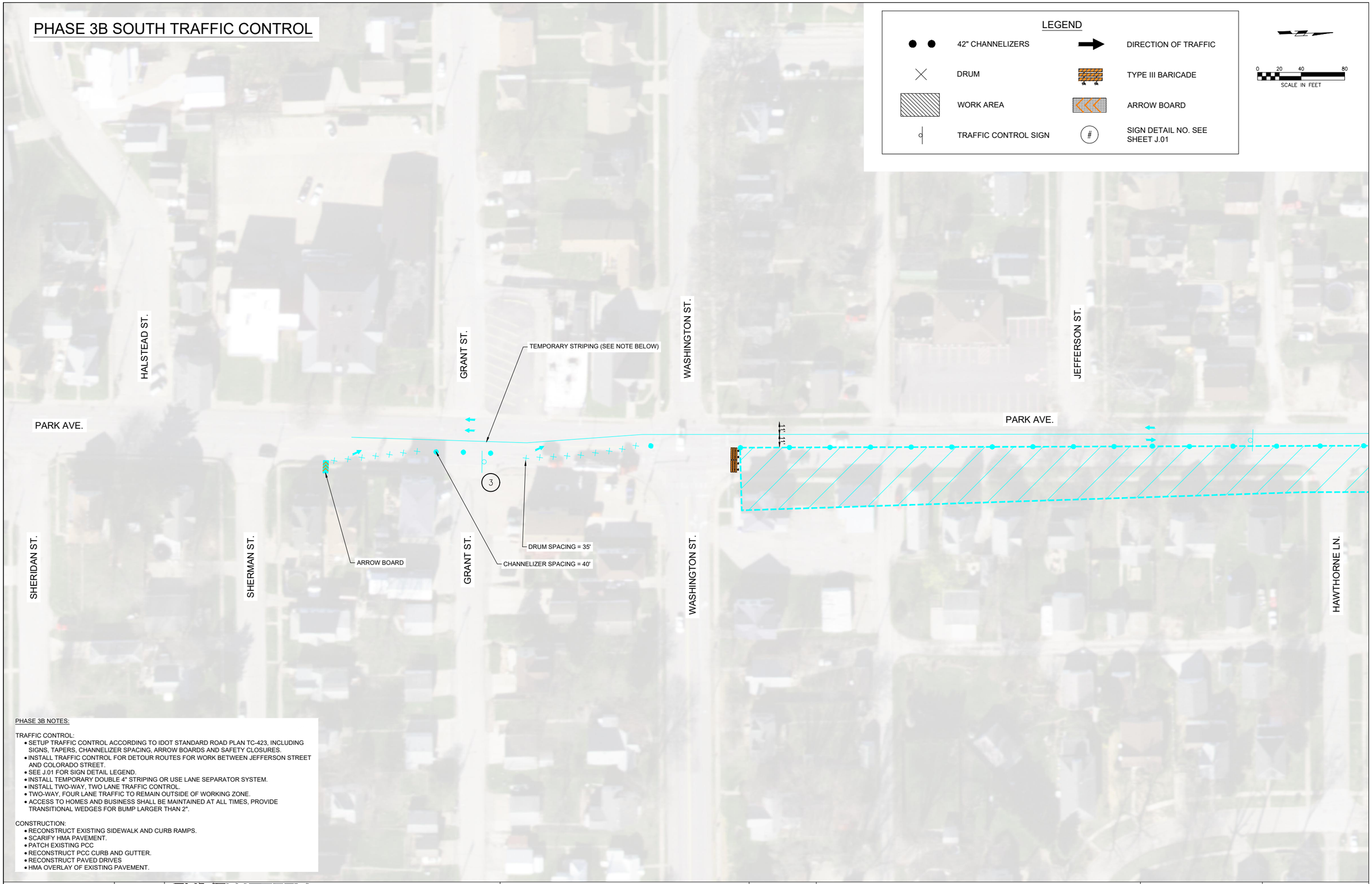
PHASE 3B SOUTH TRAFFIC CONTROL



PHASE 3B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
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- SEE J.01 FOR SIGN DETAIL LEGEND.
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- SCARIFY HMA PAVEMENT.
- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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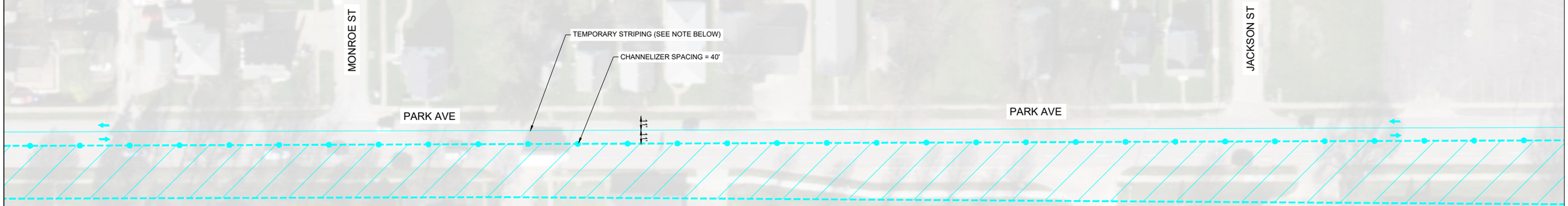
PHASE 3B TYPICAL WORK ZONE

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET



PHASE 3B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
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- PATCH EXISTING PCC
- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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PHASE 3B NORTH TRAFFIC CONTROL

LEGEND

- 42" CHANNELIZERS
- DRUM
- WORK AREA
- TRAFFIC CONTROL SIGN
- DIRECTION OF TRAFFIC
- TYPE III BARICADE
- ARROW BOARD
- # — SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

CLAY ST.

HARRISON ST.

PARK AVE.

TEMPORARY STRIPING (SEE NOTE BELOW)

CHANNELIZER SPACING = 40'

11'-11'

4

DRUM SPACING = 35'

ARROW BOARD

COLORADO ST.

PHASE 3B NOTES:

TRAFFIC CONTROL:
- SETUP TRAFFIC CONTROL ACCORDING TO IDOT STANDARD ROAD PLAN TC-423, INCLUDING SIGNS, TAPERS, CHANNELIZER SPACING, ARROW BOARDS AND SAFETY CLOSURES.
- INSTALL TRAFFIC CONTROL FOR DETOUR ROUTES FOR WORK BETWEEN JEFFERSON STREET AND COLORADO STREET.
- SEE J.01 FOR SIGN DETAIL LEGEND.
- INSTALL TEMPORARY DOUBLE 4" YELLOW STRIPING OR USE LANE SEPARATOR SYSTEM.
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- RECONSTRUCT PCC CURB AND GUTTER.
- RECONSTRUCT PAVED DRIVES
- HMA OVERLAY OF EXISTING PAVEMENT.

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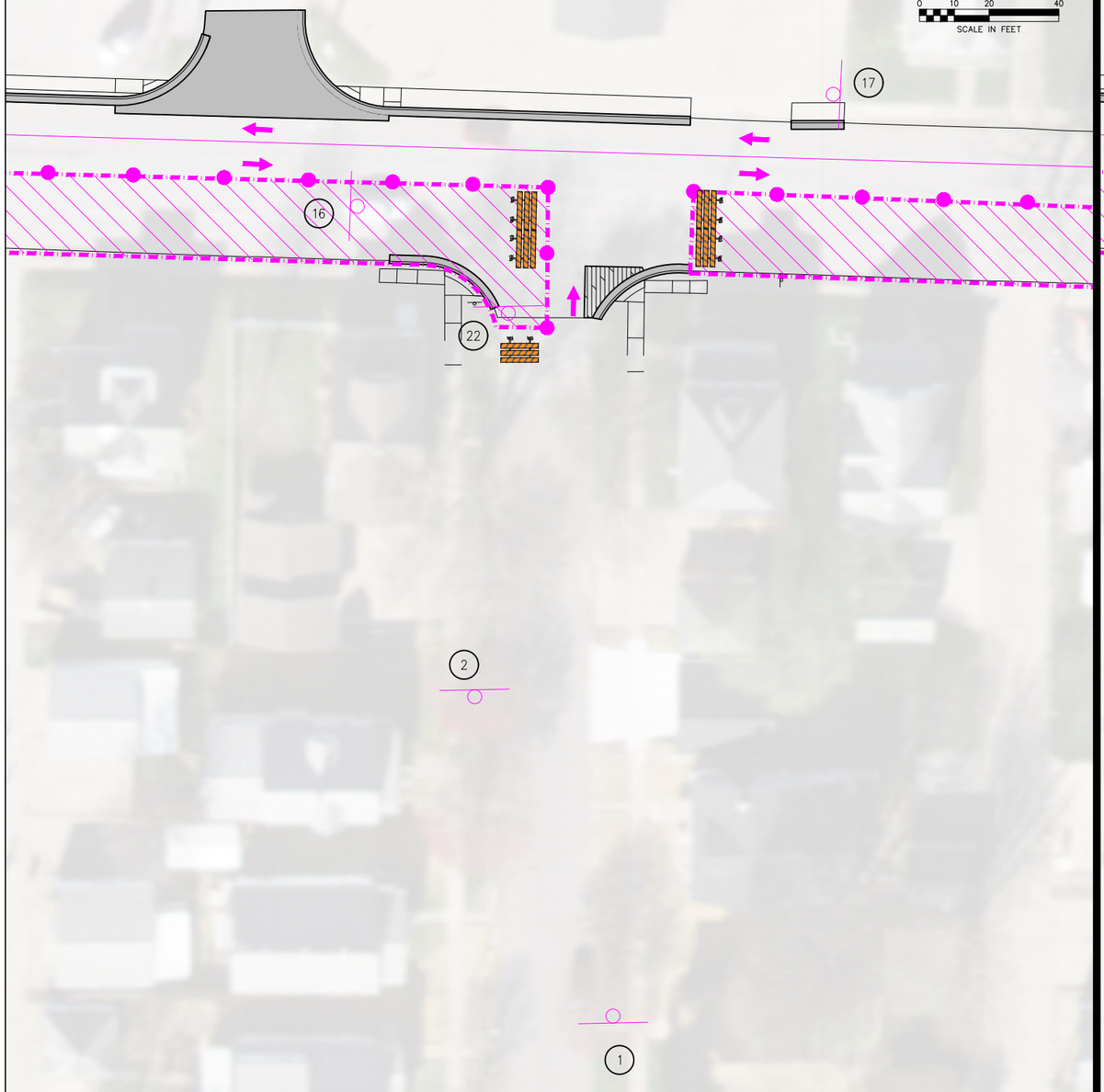
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	PHASE 3B NORTH ZONE	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER J.32

PHASE 4A - TYPICAL INTERSECTION TRAFFIC CONTROL

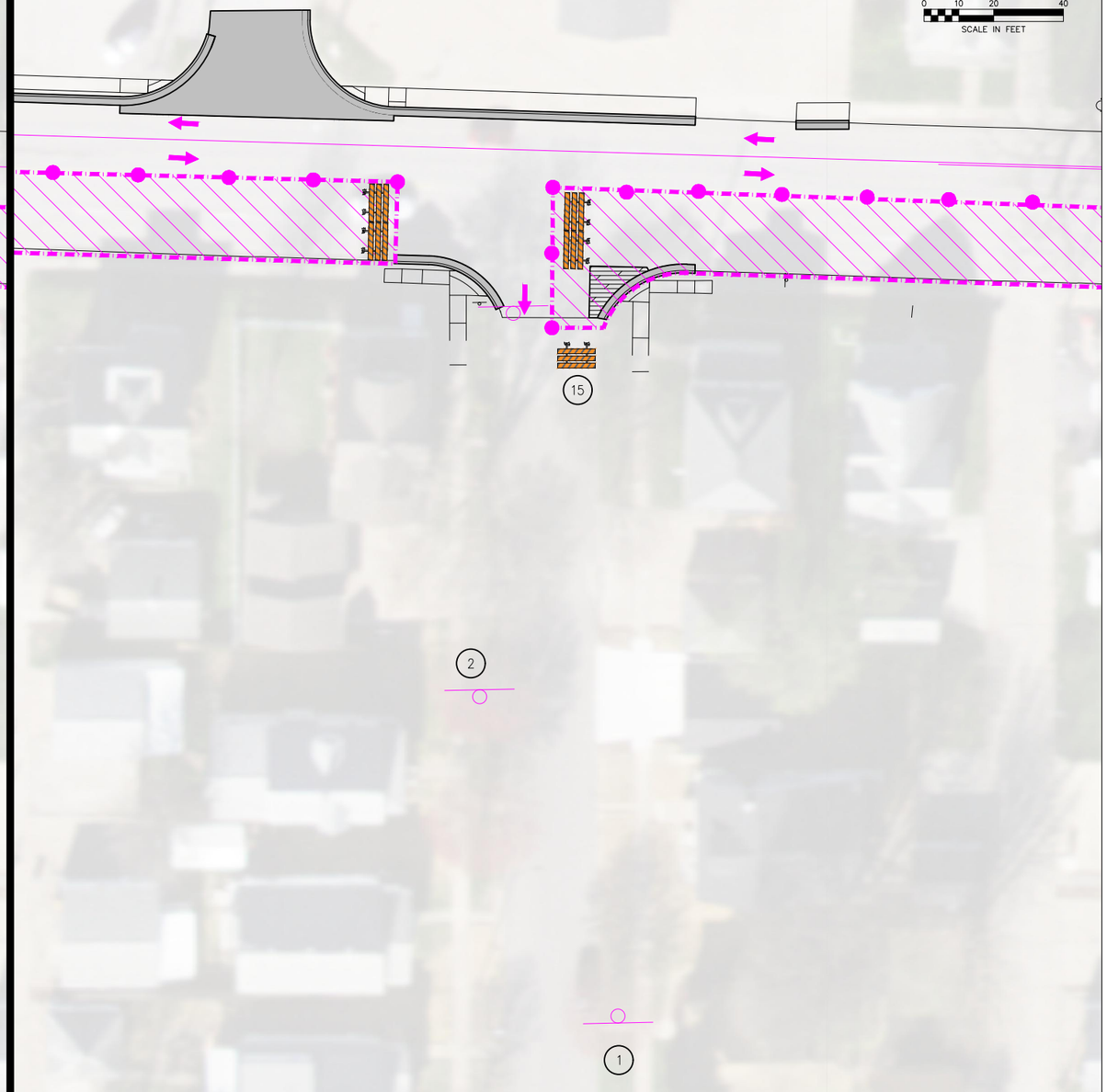


PHASE 4A NOTES:

TRAFFIC CONTROL:
- INTERSECTION TO REMAIN OPEN DURING PHASE 4A.
- ONE LANE CLOSED FOR TRAFFIC EASTBOUND ON SIDE ROAD.
- TWO WAY TRAFFIC TO REMAIN ON MAIN ROAD.

CONSTRUCTION:
- CONSTRUCT SOUTH HALF OF INTERSECTION WITHIN PHASING LIMITS.

PHASE 4B - TYPICAL INTERSECTION TRAFFIC CONTROL



PHASE 4B NOTES:

TRAFFIC CONTROL:
- INTERSECTION TO REMAIN OPEN DURING PHASE B.
- ONE LANE CLOSED FOR TRAFFIC WESTBOUND ON SIDE ROAD.
- TWO WAY TRAFFIC TO REMAIN ON MAIN ROAD.
- INSTALL STOP FOR SIDE ROAD TRAFFIC MERGING ONTO MAIN ROAD.

CONSTRUCTION:
- CONSTRUCT NORTH HALF OF INTERSECTION LOCATED WITHIN PHASING LIMITS.

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SH PROJECT NO. 3172470	TYPICAL INTERSECTION PHASING - LOCAL ACCESS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER J.33

Plot Date: 3/31/2020 8:53 AM
File Name: p:\projects\mo\3172470\deliverables\drawings\1_civil\j.01 typical traffic control plan.dwg

TYPICAL INTERSECTION DETOUR PLAN



0 30 60 120
SCALE IN FEET

TYPICAL INTERSECTION DETOUR PLAN NOTES:

TRAFFIC CONTROL:
- INTERSECTION TO REMAIN OPEN DURING CONSTRUCTION.
- ONE LANE CLOSED FOR TRAFFIC EASTBOUND ON SIDE ROAD.
- TWO WAY TRAFFIC TO REMAIN ON MAIN ROAD.
- INSTALL LOCAL DETOUR SIGNS AS SHOWN ON THE PLANS. THESE SIGNS ARE TYPICAL AND SHALL CHANGE BASED ON THE INTERSECTION BEING CONSTRUCTED.

SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	TYPICAL INTERSECTION DETOUR - LOCAL ACCESS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER	J.34

Plot Date: 3/31/2020 8:53 AM
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PHASE 5 - TYPICAL SIDEWALK TRAFFIC CONTROL AND DETOUR PLAN



LEGEND

● ●	42" CHANNELIZERS	→	DIRECTION OF TRAFFIC
×	DRUM		TYPE III BARICADE
	WORK AREA		ARROW BOARD
○	TRAFFIC CONTROL SIGN	#	SIGN DETAIL NO. SEE SHEET J.01

0 20 40 80
SCALE IN FEET

TYPICAL SIDEWALK TRAFFIC CONTROL AND DETOUR PLAN:

TRAFFIC CONTROL:
- TRAFFIC CONTROL WILL BE INSTALLED FOR WORK AT EACH INTERSECTION CORNER SHOWN ON THE PLANS.
- TRAFFIC CONTROL SHOWN ON THIS SHEET IS TYPICAL. EACH CURB RAMP MAY VARY. FOLLOW IOWA DOT STANDARD ROAD PLAN TC-601 AND MUTCD STANDARDS.

CONSTRUCTION:
- DEMO AND CONSTRUCT ONE CURB RAMP AT A TIME TO KEEP TRAFFIC FULLY FUNCTIONING AT INTERSECTION.
- INSTALL PAVEMENT MARKINGS IF NECESSARY.
- CONSTRUCTION FOR TYPICAL SIDEWALK AND CURB RAMP MAY OCCUR SIMULTANEOUSLY AS PHASES 1 THROUGH 6

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REMOVAL OF PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

This Data Entry Sheet fills Tab 108-22 effective 04-16-13

DCY4: Double Centerline (Yellow) @ 2.00

BLW4: Broken Lane Line (White) @ 0.25

SLW2: Stop Line (White) @ 6.00

Location									Length by Line Type (Unfactored)													
Road ID	Station to Station		Length (STA)	Dir. of Travel	Marking Type	Side			DCY4	BLW4	SLW2											Remarks
						L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
E 2ND STREET	29+42.00	33+42.00	4.00	NB	Removal of Existing Paint			X		4.00												PHASE 1A
E 2ND STREET	29+42.00	33+42.00	4.00	SB	Removal of Temporary Paint	X			4.00													PHASE 1B
E 2ND STREET	33+40.00	33+40.00	0.27	NB	Removal of Existing Paint			X			0.28											PHASE 1A
E 2ND STREET	35+08.00	36+97.00	1.89	NB	Removal of Existing Paint			X		1.89												PHASE 1A
E 2ND STREET	35+08.00	36+97.00	1.89	SB	Removal of Temporary Paint	X			1.89													PHASE 1B
E 2ND STREET	35+08.00	35+08.00	14.00	SB	Removal of Temporary Paint	X					0.14											PHASE 1B
E 2ND STREET	37+70.00	40+55.00	2.85	NB	Removal of Existing Paint			X		2.85												PHASE 1A
E 2ND STREET	37+68.00	40+55.00	2.87	SB	Removal of Temporary Paint	X			2.87													PHASE 1B
E 2ND STREET	41+30.00	42+26.00	0.96	NB	Removal of Existing Paint			X		0.96												PHASE 1A
E 2ND STREET	41+30.00	43+72.00	2.42	SB	Removal of Temporary Paint	X			2.42													PHASE 1B
E 2ND STREET	43+22.00	49+60.00	6.38	NB	Removal of Existing Paint			X		6.38												PHASE 1A
E 2ND STREET	44+46.00	49+57.00	5.11	SB	Removal of Temporary Paint	X			5.11													PHASE 1B
PARK AVENUE	49+60.00	49+60.00	0.18	NB	Removal of Existing Paint			X			0.18											PHASE 1A
PARK AVENUE	50+01.00	52+98.00	2.97	NB	Removal of Existing Paint			X		2.97												PHASE 1A
PARK AVENUE	50+01.00	55+01.00	5.00	SB	Removal of Temporary Paint	X			5.00													PHASE 1B
PARK AVENUE	51+16.00	51+16.00	0.12	SB	Removal of Temporary Paint	X					0.12											PHASE 1B
PARK AVENUE	53+64.00	56+05.00	2.41	NB	Removal of Existing Paint			X		2.41												PHASE 2A
PARK AVENUE	55+76.00	58+30.00	2.54	SB	Removal of Temporary Paint	X			2.54													PHASE 2B
PARK AVENUE	56+86.00	59+38.00	2.52	NB	Removal of Existing Paint			X		2.52												PHASE 2A
PARK AVENUE	58+92.00	61+58.00	2.66	SB	Removal of Temporary Paint	X			2.66													PHASE 2B
PARK AVENUE	60+04.00	62+52.00	2.48	NB	Removal of Existing Paint			X		2.48												PHASE 2A
PARK AVENUE	62+26.00	66+37.00	4.11	SB	Removal of Temporary Paint	X			4.11													PHASE 2B
PARK AVENUE	63+27.00	65+44.00	2.17	NB	Removal of Existing Paint			X		2.17												PHASE 2A
PARK AVENUE	66+10.00	67+48.00	1.38	NB	Removal of Existing Paint			X		1.38												PHASE 2A
PARK AVENUE	67+07.00	69+49.00	2.42	SB	Removal of Temporary Paint	X			2.42													PHASE 2B
PARK AVENUE	68+06.00	69+49.00	1.43	NB	Removal of Existing Paint			X		1.43												PHASE 2A
PARK AVENUE	70+12.00	71+35.00	1.23	SB	Removal of Temporary Paint	X			1.23													PHASE 2B
PARK AVENUE	70+12.00	71+35.00	1.23	NB	Removal of Existing Paint			X		1.23												PHASE 2A
PARK AVENUE	71+36.00	71+36.00	0.29	NB	Removal of Existing Paint			X			0.29											PHASE 2A
PARK AVENUE	172+14.00	175+07.00	2.93	SB	Removal of Temporary Paint	X			2.93													PHASE 2B
PARK AVENUE	172+14.00	177+41.00	5.27	NB	Removal of Existing Paint			X		5.27												PHASE 2A
PARK AVENUE	172+19.00	172+19.00	0.14	SB	Removal of Temporary Paint	X					0.14											PHASE 2B
PARK AVENUE	175+66.00	178+60.00	2.94	SB	Removal of Temporary Paint	X			2.94													PHASE 3B
PARK AVENUE	178+01.00	183+65.00	5.64	NB	Removal of Existing Paint			X		5.64												PHASE 3A
PARK AVENUE	179+28.00	182+21.00	2.93	SB	Removal of Temporary Paint	X			2.93													PHASE 3B
PARK AVENUE	184+08.00	196+55.00	12.47	NB	Removal of Existing Paint			X		12.47												PHASE 3A
PARK AVENUE	190+10.00	196+55.00	6.45	SB	Removal of Temporary Paint	X			6.45													PHASE 3B
PARK AVENUE	196+55.00	196+55.00	0.37	NB	Removal of Existing Paint			X			0.37											PHASE 3A
PARK AVENUE	197+49.00	203+78.00	6.29	NB	Removal of Existing Paint			X		6.29												PHASE 3A
PARK AVENUE	197+49.00	203+78.00	6.29	SB	Removal of Temporary Paint	X			6.29													PHASE 3B
PARK AVENUE	197+52.00	197+52.00	0.14	SB	Removal of Temporary Paint	X					0.14											PHASE 3B
								TOTAL	111.58	15.59	9.96											

TEMPORARY PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

This Data Entry Sheet fills Tab 108-22 effective 04-16-13

BCY4: Broken Centerline (Yellow) @ 0.25

DCY4: Double Centerline (Yellow) @ 2.00

SLW2: Stop Line (White) @ 6.00

SLW2: Stop Line (White) @ 6.00

Location									Length by Line Type (Unfactored)																
Road ID	Station to Station		Length (STA)	Dir. of Travel	Marking Type	Side			BCY4*	DCY4	SLW2				SLW2										Remarks
						L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
E 2ND STREET	29+42.00	33+42.00	4.00	BOTH	Waterborne/Solvent Paint - Temporary			X		4.00															PHASE 1A
E 2ND STREET	29+42.00	33+42.00	4.00	BOTH	Waterborne/Solvent Paint - Temporary	X				4.00															PHASE 1B
E 2ND STREET	33+40.00	33+40.00	0.14	NB	Waterborne/Solvent Paint - Temporary			X			0.14														PHASE 1A
E 2ND STREET	35+08.00	36+97.00	1.89	BOTH	Waterborne/Solvent Paint - Temporary			X		1.89															PHASE 1A
E 2ND STREET	35+08.00	36+97.00	1.89	BOTH	Waterborne/Solvent Paint - Temporary	X				1.89															PHASE 1B
E 2ND STREET	35+08.00	35+08.00	0.14	SB	Waterborne/Solvent Paint - Temporary	X					0.14														PHASE 1B
E 2ND STREET	37+70.00	40+55.00	2.85	BOTH	Waterborne/Solvent Paint - Temporary			X		2.85															PHASE 1A
E 2ND STREET	37+70.00	40+55.00	2.85	BOTH	Waterborne/Solvent Paint - Temporary	X				2.85															PHASE 1B
E 2ND STREET	41+30.00	42+26.00	0.96	BOTH	Waterborne/Solvent Paint - Temporary			X		0.96															PHASE 1A
E 2ND STREET	41+30.00	43+72.00	2.42	BOTH	Waterborne/Solvent Paint - Temporary	X				2.42															PHASE 1B
E 2ND STREET	43+22.00	49+60.00	6.38	BOTH	Waterborne/Solvent Paint - Temporary			X		6.38															PHASE 1A
E 2ND STREET	44+46.00	49+57.00	5.11	BOTH	Waterborne/Solvent Paint - Temporary	X				5.11															PHASE 1B
PARK AVENUE	49+60.00	49+60.00	0.12	NB	Waterborne/Solvent Paint - Temporary			X			0.12														PHASE 1A
PARK AVENUE	50+01.00	52+98.00	2.97	BOTH	Waterborne/Solvent Paint - Temporary			X		2.97															PHASE 1A
PARK AVENUE	50+01.00	55+01.00	5.00	BOTH	Waterborne/Solvent Paint - Temporary	X				5.00															PHASE 1B
PARK AVENUE	51+16.00	51+16.00	0.12	SB	Waterborne/Solvent Paint - Temporary	X					0.12														PHASE 1B
PARK AVENUE	53+64.00	56+05.00	2.41	BOTH	Waterborne/Solvent Paint - Temporary			X		2.41															PHASE 2A
PARK AVENUE	55+76.00	58+30.00	2.54	BOTH	Waterborne/Solvent Paint - Temporary	X				2.54															PHASE 2B
PARK AVENUE	56+86.00	59+38.00	2.52	BOTH	Waterborne/Solvent Paint - Temporary			X		2.52															PHASE 2A
PARK AVENUE	58+92.00	61+58.00	2.66	BOTH	Waterborne/Solvent Paint - Temporary	X				2.66															PHASE 2B
PARK AVENUE	60+04.00	62+52.00	2.48	BOTH	Waterborne/Solvent Paint - Temporary			X		2.48															PHASE 2A
PARK AVENUE	62+26.00	66+37.00	4.11	BOTH	Waterborne/Solvent Paint - Temporary	X				4.11															PHASE 2B
PARK AVENUE	63+27.00	65+44.00	2.17	BOTH	Waterborne/Solvent Paint - Temporary			X		2.17															PHASE 2A
PARK AVENUE	66+10.00	67+48.00	1.38	BOTH	Waterborne/Solvent Paint - Temporary			X		1.38															PHASE 2A
PARK AVENUE	67+07.00	69+49.00	2.42	BOTH	Waterborne/Solvent Paint - Temporary	X				2.42															PHASE 2B
PARK AVENUE	68+06.00	69+49.00	1.43	BOTH	Waterborne/Solvent Paint - Temporary			X		1.43															PHASE 2A
PARK AVENUE	70+12.00	71+35.00	1.23	BOTH	Waterborne/Solvent Paint - Temporary	X				1.23															PHASE 2B
PARK AVENUE	70+12.00	71+35.00	1.23	BOTH	Waterborne/Solvent Paint - Temporary			X		1.23															PHASE 2A
PARK AVENUE	71+28.00	71+28.00	0.14	NB	Waterborne/Solvent Paint - Temporary			X			0.14														PHASE 2A
PARK AVENUE	172+14.00	175+07.00	2.93	BOTH	Waterborne/Solvent Paint - Temporary	X				2.93															PHASE 2B
PARK AVENUE	172+14.00	177+41.00	5.27	BOTH	Waterborne/Solvent Paint - Temporary			X		5.27															PHASE 2A
PARK AVENUE	172+19.00	172+19.00	0.14	SB	Waterborne/Solvent Paint - Temporary	X					0.14														PHASE 3B
PARK AVENUE	175+66.00	178+60.00	2.94	BOTH	Waterborne/Solvent Paint - Temporary	X				2.94															PHASE 3B
PARK AVENUE	178+01.00	183+65.00	5.64	BOTH	Waterborne/Solvent Paint - Temporary			X		5.64															PHASE 3A
PARK AVENUE	179+28.00	182+21.00	2.93	BOTH	Waterborne/Solvent Paint - Temporary	X				2.93															PHASE 3B
PARK AVENUE	182+81.00	189+41.00	6.60	BOTH	Waterborne/Solvent Paint - Temporary	X				6.60															PHASE 3B
PARK AVENUE	184+08.00	196+55.00	12.47	BOTH	Waterborne/Solvent Paint - Temporary			X		12.47															PHASE 3A
PARK AVENUE	190+10.00	196+55.00	6.45	BOTH	Waterborne/Solvent Paint - Temporary	X				6.45															PHASE 3B
PARK AVENUE	196+37.00	196+37.00	0.14	NB	Waterborne/Solvent Paint - Temporary			X			0.14														PHASE 3A
PARK AVENUE	197+49.00	203+78.00	6.29	BOTH	Waterborne/Solvent Paint - Temporary			X		6.29															PHASE 3A
PARK AVENUE	197+49.00	203+78.00	6.29	BOTH	Waterborne/Solvent Paint - Temporary	X				6.29															PHASE 3B
PARK AVENUE	197+52.00	197+52.00	0.14	SB	Waterborne/Solvent Paint - Temporary	X					0.14														
								TOTAL		249.42	6.48														

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108-13A

08-01-08

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
30+59	2		
33+54	4		
34+00	2		
33+75	1		
34+28	1		
35+19	2		
36+82	4		
37+29	1		
37+33	1		
37+70	4		
40+55	4		
40+93	2		
41+31	4		
42+35	2		
43+06	1		
43+24	2		
43+61	2		
44+05	1		
44+43	2		
49+56	4		
49+92	1		
50+15	2		
50+33	1		
50+53	2		
50+85	1		
51+11	4		
52+83	2		
53+21	1		
53+63	2		
54+96	2		
55+37	1		
55+82	2		
56+03	2		
56+43	1		
56+85	2		
58+31	2		
58+70	1		
59+01	2		
59+26	2		
59+67	1		
60+07	2		
61+57	2		
61+99	1		
62+41	4		
2+83	1		
63+27	2		
65+35	2		
65+75	1		
66+20	4		
66+72	1		
67+12	2		
67+34	2		
67+77	1		
70+13	4		
71+17	4		
171+74	2		
172+21	4		
175+02	2		
175+31	1		
175+68	2		
177+38	2		
177+69	1		
178+00	2		
178+59	2		
178+94	1		
179+26	2		
182+20	2		
182+56	1		
182+88	2		
183+56	2		
183+86	1		
184+21	2		
189+54	2		
189+76	1		
189+96	2		
196+40	4		
197+00	2		
197+52	4		
Total	159		

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LEGEND

- HMA OVERLAY
- PCC PATCH, 8"
- 6" PCC CURB AND GUTTER
- PCC SIDEWALK, 4"
- PCC DRIVEWAY, 6"
- PCC PAVEMENT, 10"

0 5 10 20
SCALE IN FEET

CYPRESS ST

E 2ND ST

33+00

34+00

35+00

MATCH EXISTING
STA: 33+58.85; OFF: -36.68'
ELEV = 568.28

BACK OF CURB
STA: 33+55.86; OFF: -36.78'
ELEV = 568.57

BACK OF CURB
EOR
STA: 33+41.26; OFF: -22.39'
ELEV = 567.55

BACK OF CURB
STA: 33+40.72; OFF: -22.37'
ELEV = 567.53

STA: 33+40.80; OFF: -19.37'
ELEV = 567.05

STA: 33+58.69; OFF: -19.21'
ELEV = 567.89

BACK OF CURB
MP
STA: 33+51.40; OFF: -26.70'
ELEV = 568.16

STA: 33+84.97; OFF: -35.26'
ELEV = 569.37

BACK OF CURB
STA: 33+87.22; OFF: -36.34'
ELEV = 569.86

BACK OF CURB
MP
STA: 33+91.76; OFF: -29.91'
ELEV = 569.72

BACK OF CURB
EOR
STA: 34+00.55; OFF: -24.19'
ELEV = 569.78

BACK OF CURB
PI
STA: 34+34.11; OFF: -22.51'
ELEV = 571.55

BACK OF CURB
STA: 34+84.39; OFF: -22.49'
ELEV = 573.54

STA: 34+84.39; OFF: -19.99'
ELEV = 573.15

BACK OF CURB
STA: 35+04.37; OFF: -22.47'
ELEV = 574.56

STA: 35+04.38; OFF: -19.97'
ELEV = 574.07

BACK OF CURB
STA: 35+42.17; OFF: -22.56'
ELEV = 576.02

STA: 35+42.18; OFF: -20.06'
ELEV = 575.77

STA: 33+53.18; OFF: 29.68'
ELEV = 566.71

BACK OF CURB
STA: 33+53.00; OFF: 32.17'
ELEV = 567.21

BACK OF CURB
MP
STA: 33+83.56; OFF: 40.55'
ELEV = 568.47

BACK OF CURB
EOR
STA: 33+61.80; OFF: 32.88'
ELEV = 567.73

BACK OF CURB
STA: 33+94.31; OFF: 50.86'
ELEV = 569.33

STA: 33+96.34; OFF: 49.41'
ELEV = 568.78

STA: 34+58.80; OFF: 55.77'
ELEV = 571.28

BACK OF CURB
STA: 34+61.24; OFF: 56.34'
ELEV = 571.77

BACK OF CURB
MP
STA: 34+79.47; OFF: 31.77'
ELEV = 572.84

BACK OF CURB
EOR
STA: 35+08.60; OFF: 22.42'
ELEV = 574.65

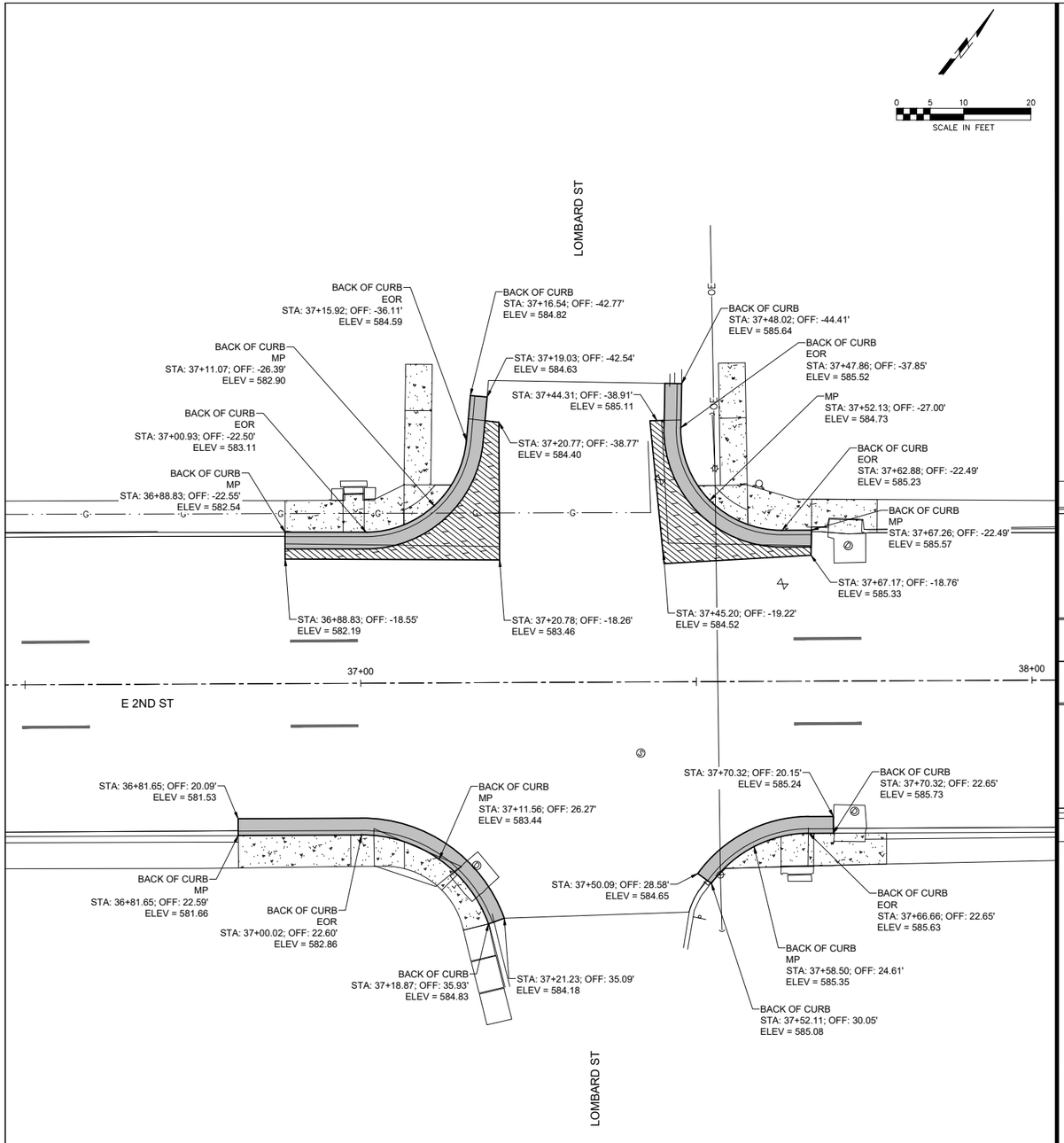
BACK OF CURB
STA: 35+20.83; OFF: 22.43'
ELEV = 575.18

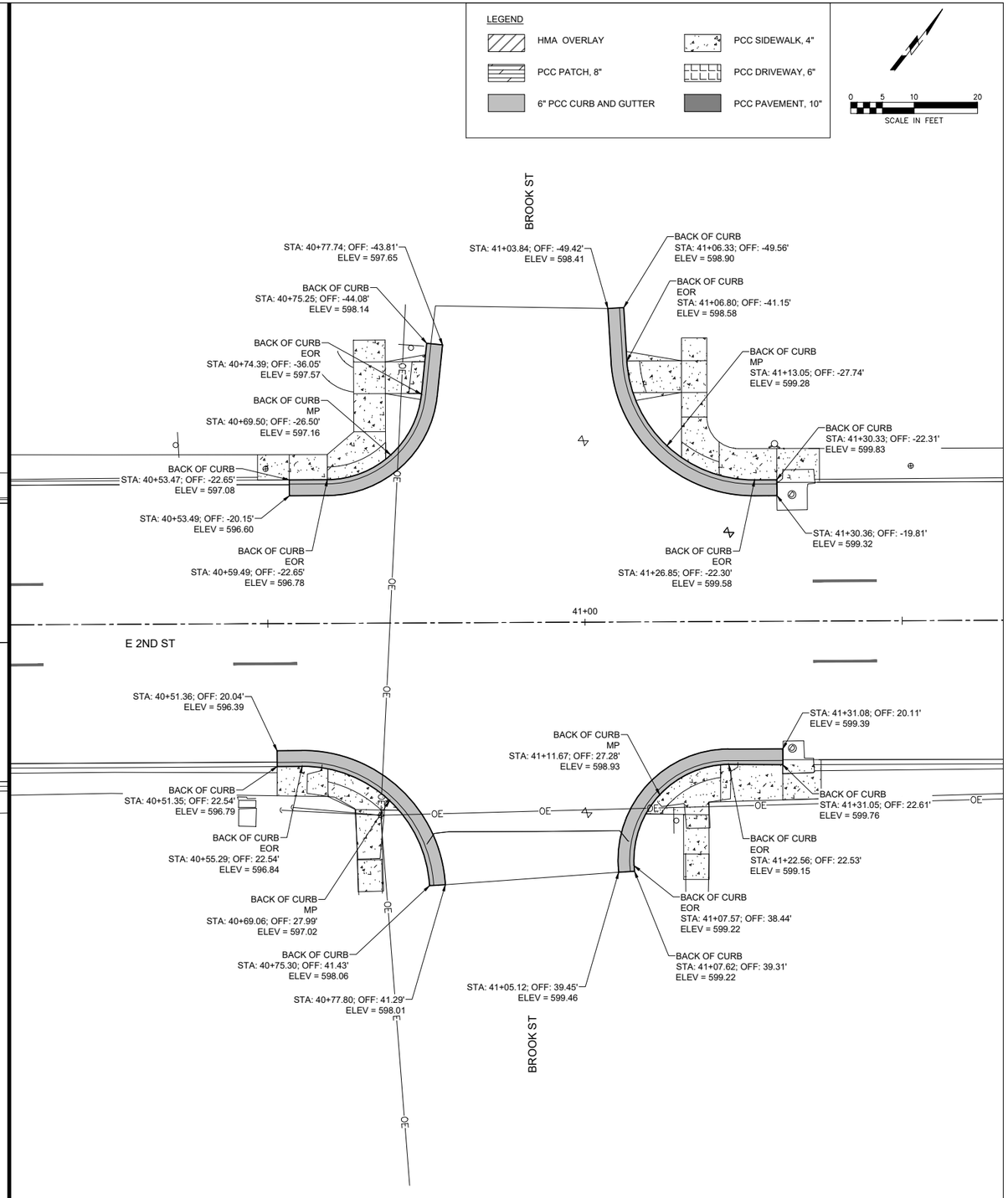
STA: 35+20.83; OFF: 19.93'
ELEV = 574.69

IA-92

Plot Date: 3/31/2020 8:55 AM
File Name: p:\projects\mo\3172470\deliverables\drawings\1_civil\k.01 intersection details.dwg

SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	INTERSECTION DETAILS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER	K.01





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LEGEND

- HMA OVERLAY
- PCC SIDEWALK, 4"
- PCC PATCH, 8"
- PCC DRIVEWAY, 6"
- 6" PCC CURB AND GUTTER
- PCC PAVEMENT, 10"

0 5 10 20
SCALE IN FEET

PARMALEE ST

BACK OF CURB
STA: 43+89.16; OFF: -42.89'
ELEV = 603.83

BACK OF CURB
EOR
STA: 43+88.37; OFF: -38.82'
ELEV = 603.61

STA: 43+91.62; OFF: -42.42'
ELEV = 603.34

BACK OF CURB
MP
STA: 43+81.45; OFF: -27.19'
ELEV = 603.47

STA: 43+90.72; OFF: -33.26'
ELEV = 603.42

BACK OF CURB
EOR
STA: 43+68.72; OFF: -22.63'
ELEV = 604.03

STA: 44+15.15; OFF: -33.31'
ELEV = 603.67

BACK OF CURB
STA: 43+60.72; OFF: -22.64'
ELEV = 603.93

STA: 43+90.43; OFF: -19.82'
ELEV = 603.62

STA: 43+60.71; OFF: -20.14'
ELEV = 603.47

STA: 43+60.71; OFF: -17.91'
ELEV = 603.53

STA: 44+19.01; OFF: -40.47'
ELEV = 603.65

BACK OF CURB
STA: 44+21.50; OFF: -40.71'
ELEV = 603.78

BACK OF CURB
MP
STA: 44+27.96; OFF: -27.82'
ELEV = 603.73

BACK OF CURB
EOR
STA: 44+41.42; OFF: -22.63'
ELEV = 604.35

BACK OF CURB
STA: 44+43.67; OFF: -22.64'
ELEV = 604.44

STA: 44+43.67; OFF: -20.14'
ELEV = 604.12

STA: 44+14.79; OFF: -20.69'
ELEV = 603.78

STA: 44+43.68; OFF: -19.30'
ELEV = 604.15

42+00 43+00 44+00

E 2ND ST

BACK OF CURB
MP
STA: 42+55.63; OFF: 24.45'
ELEV = 602.54

STA: 42+34.18; OFF: 20.08'
ELEV = 602.19

BACK OF CURB
STA: 42+34.03; OFF: 22.58'
ELEV = 602.51

STA: 42+68.51; OFF: 28.20'
ELEV = 602.73

BACK OF CURB
EOR
STA: 42+43.40; OFF: 22.56'
ELEV = 602.49

BACK OF CURB
EOR
STA: 42+66.16; OFF: 29.62'
ELEV = 603.19

BACK OF CURB
STA: 42+67.09; OFF: 30.26'
ELEV = 603.22

BACK OF CURB
EOR
STA: 43+24.82; OFF: 22.53'
ELEV = 603.48

BACK OF CURB
MP
STA: 43+17.30; OFF: 27.77'
ELEV = 603.34

STA: 43+90.59; OFF: 20.13'
ELEV = 603.68

BACK OF CURB
STA: 43+90.59; OFF: 22.63'
ELEV = 604.17

BACK OF CURB
EOR
STA: 43+19.65; OFF: 36.64'
ELEV = 604.67

STA: 43+20.83; OFF: 40.90'
ELEV = 604.40

BACK OF CURB
STA: 43+22.44; OFF: 38.99'
ELEV = 604.66

SMALLEY ST

OE

30

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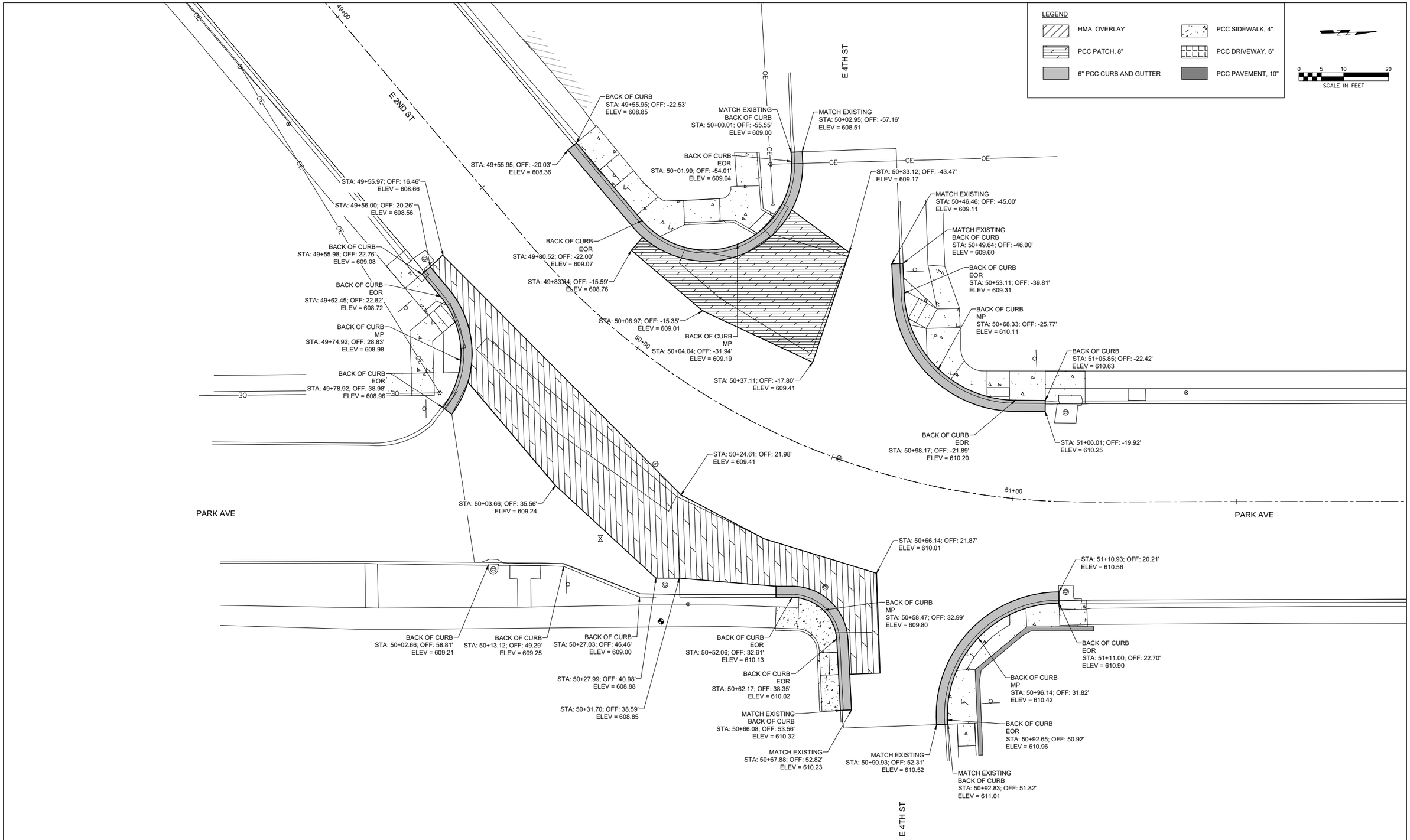

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LEGEND

- HMA OVERLAY
- PCC PATCH, 8"
- 6" PCC CURB AND GUTTER
- PCC SIDEWALK, 4"
- PCC DRIVEWAY, 6"
- PCC PAVEMENT, 10"

0 5 10 20
SCALE IN FEET

E 5TH ST

MATCH EXISTING
STA: 55+22.40; OFF: -61.05'
ELEV = 615.98

MATCH EXISTING
STA: 55+52.03; OFF: -61.81'
ELEV = 616.14

BACK OF CURB
STA: 55+19.90; OFF: -60.99'
ELEV = 616.37

BACK OF CURB
STA: 55+54.53; OFF: -61.88'
ELEV = 616.60

BACK OF CURB
EOR
STA: 55+20.52; OFF: -43.03'
ELEV = 616.52

EOR
STA: 55+55.31; OFF: -38.76'
ELEV = 616.18

BACK OF CURB
STA: 55+82.71; OFF: -22.38'
ELEV = 616.73

STA: 55+82.72; OFF: -19.88'
ELEV = 616.37

MATCH EXISTING
BACK OF CURB
STA: 54+29.01; OFF: -22.44'
ELEV = 615.41

MATCH EXISTING
BACK OF CURB
STA: 54+65.50; OFF: -22.28'
ELEV = 616.13

BACK OF CURB
EOR
STA: 55+00.59; OFF: -22.33'
ELEV = 616.65

STA: 54+95.72; OFF: -18.82'
ELEV = 616.22

BACK OF CURB
MP
STA: 55+14.94; OFF: -28.46'
ELEV = 616.67

STA: 54+29.01; OFF: -19.95'
ELEV = 615.13

STA: 54+65.50; OFF: -19.79'
ELEV = 615.72

BACK OF CURB
STA: 54+95.71; OFF: -22.32'
ELEV = 616.51

BACK OF CURB
MP
STA: 55+60.51; OFF: -27.08'
ELEV = 616.77

STA: 55+35.88; OFF: -18.83'
ELEV = 616.36

EOR
STA: 55+72.38; OFF: -22.33'
ELEV = 616.44

STA: 55+76.04; OFF: -18.85'
ELEV = 616.50

53+00 54+00 55+00

PARK AVE

STA: 52+82.57; OFF: 19.95'
ELEV = 612.95

BACK OF CURB
STA: 52+82.56; OFF: 22.45'
ELEV = 613.42

BACK OF CURB
EOR
STA: 52+84.94; OFF: 22.45'
ELEV = 613.40

MP
STA: 52+97.76; OFF: 26.00'
ELEV = 613.21

STA: 53+09.15; OFF: 34.44'
ELEV = 613.43

MP
STA: 53+48.76; OFF: 26.14'
ELEV = 614.02

MATCH EXISTING
STA: 53+64.29; OFF: 19.88'
ELEV = 614.09

BACK OF CURB
STA: 53+64.29; OFF: 22.38'
ELEV = 614.56

MATCH EXISTING
BACK OF CURB
STA: 53+39.47; OFF: 36.46'
ELEV = 614.73

MATCH EXISTING
BACK OF CURB
STA: 53+06.95; OFF: 35.63'
ELEV = 613.91

STA: 53+37.22; OFF: 35.37'
ELEV = 614.03

HOLLY ST

STA: 54+95.97; OFF: 20.26'
ELEV = 616.17

STA: 55+86.02; OFF: 20.05'
ELEV = 616.40

MATCH EXISTING
BACK OF CURB
STA: 54+95.97; OFF: 22.77'
ELEV = 616.13

MATCH EXISTING
BACK OF CURB
STA: 55+86.03; OFF: 22.55'
ELEV = 616.72

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LEGEND

- HMA OVERLAY
- PCC PATCH, 8"
- 6" PCC CURB AND GUTTER
- PCC SIDEWALK, 4"
- PCC DRIVEWAY, 6"
- PCC PAVEMENT, 10"

0 5 10 20
SCALE IN FEET

WILLOW ST

BACK OF CURB
STA: 57+88.94; OFF: -22.57'
ELEV = 615.27

STA: 57+88.94; OFF: -20.07'
ELEV = 614.95

BACK OF CURB
EOR
STA: 58+31.72; OFF: -22.57'
ELEV = 614.84

MP
STA: 58+46.11; OFF: -28.67'
ELEV = 614.65

STA: 58+31.72; OFF: -17.81'
ELEV = 614.73

BACK OF CURB
EOR
STA: 58+51.71; OFF: -43.26'
ELEV = 615.35

STA: 58+56.66; OFF: -17.81'
ELEV = 614.55

MATCH EXISTING
STA: 58+55.73; OFF: -43.79'
ELEV = 614.85

MATCH EXISTING
STA: 58+80.89; OFF: -41.56'
ELEV = 614.34

MATCH EXISTING
BACK OF CURB
STA: 58+83.39; OFF: -41.56'
ELEV = 614.23

EOR
STA: 58+83.62; OFF: -35.02'
ELEV = 614.35

MP
STA: 58+87.60; OFF: -26.10'
ELEV = 614.27

BACK OF CURB
EOR
STA: 58+96.68; OFF: -22.47'
ELEV = 614.31

BACK OF CURB
STA: 59+02.15; OFF: -22.50'
ELEV = 614.32

STA: 59+02.16; OFF: -20.00'
ELEV = 614.21

BACK OF CURB
STA: 60+07.52; OFF: -22.60'
ELEV = 613.81

STA: 60+07.55; OFF: -20.10'
ELEV = 613.53

BACK OF CURB
STA: 60+24.36; OFF: -22.75'
ELEV = 613.77

STA: 60+24.39; OFF: -20.25'
ELEV = 613.45

58+00

59+00

60+00

PARK AVE

STA: 58+82.18; OFF: 20.04'
ELEV = 614.31

BACK OF CURB
STA: 58+82.17; OFF: 22.54'
ELEV = 614.63

OE

OE

OE

BACK OF CURB
EOR
STA: 59+26.02; OFF: 22.59'
ELEV = 614.51

MP
STA: 59+40.67; OFF: 27.35'
ELEV = 613.88

MATCH EXISTING
STA: 59+52.12; OFF: 39.01'
ELEV = 614.00

MATCH EXISTING
BACK OF CURB
STA: 59+49.75; OFF: 39.79'
ELEV = 614.49

CANON AVE

MP
STA: 59+88.99; OFF: 27.04'
ELEV = 613.60

MATCH EXISTING
STA: 60+07.59; OFF: 19.89'
ELEV = 613.54

BACK OF CURB
EOR
STA: 60+03.65; OFF: 22.37'
ELEV = 614.07

MATCH EXISTING
BACK OF CURB
STA: 59+80.00; OFF: 38.96'
ELEV = 614.40

MATCH EXISTING
STA: 59+77.65; OFF: 38.12'
ELEV = 613.91

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LEGEND

- HMA OVERLAY
- PCC PATCH, 8"
- 6" PCC CURB AND GUTTER
- PCC SIDEWALK, 4"
- PCC DRIVEWAY, 6"
- PCC PAVEMENT, 10"

0 5 10 20
SCALE IN FEET

MAGNOLIA ST

MATCH EXISTING
STA: 61+84.49; OFF: -48.20'
ELEV = 613.10

MATCH EXISTING
STA: 62+10.58; OFF: -49.28'
ELEV = 613.07

MATCH EXISTING
BACK OF CURB
STA: 62+13.08; OFF: -49.38'
ELEV = 613.22

MATCH EXISTING
BACK OF CURB
STA: 61+83.67; OFF: -41.55'
ELEV = 613.44

BACK OF CURB
EOR
STA: 62+13.18; OFF: -46.47'
ELEV = 613.24

BACK OF CURB
MP
STA: 61+74.78; OFF: -27.99'
ELEV = 612.62

BACK OF CURB
MP
STA: 62+20.82; OFF: -29.36'
ELEV = 612.94

BACK OF CURB
EOR
STA: 61+59.45; OFF: -22.74'
ELEV = 613.23

BACK OF CURB
EOR
STA: 62+38.20; OFF: -22.37'
ELEV = 613.01

BACK OF CURB
STA: 61+11.94; OFF: -22.75'
ELEV = 613.30

BACK OF CURB
STA: 63+24.67; OFF: -22.47'
ELEV = 612.13

BACK OF CURB
STA: 63+68.73; OFF: -22.78'
ELEV = 612.28

BACK OF CURB
STA: 63+53.57; OFF: -22.22'
ELEV = 611.87

STA: 61+11.94; OFF: -20.25'
ELEV = 613.00

STA: 61+59.44; OFF: -20.24'
ELEV = 612.75

STA: 61+59.46; OFF: -17.96'
ELEV = 612.84

STA: 61+98.77; OFF: -18.16'
ELEV = 612.68

STA: 62+38.11; OFF: -18.37'
ELEV = 612.61

STA: 63+24.67; OFF: -19.97'
ELEV = 612.24

STA: 63+53.66; OFF: -19.72'
ELEV = 612.09

STA: 63+68.82; OFF: -20.28'
ELEV = 611.99

61+00 62+00 63+00

PARK AVE

STA: 63+12.20; OFF: 21.29'
ELEV = 612.19

STA: 62+39.63; OFF: 20.06'
ELEV = 612.46

STA: 62+95.84; OFF: 21.46'
ELEV = 612.29

STA: 63+25.92; OFF: 20.03'
ELEV = 612.20

BACK OF CURB
STA: 62+39.63; OFF: 22.56'
ELEV = 612.87

BACK OF CURB
STA: 63+25.98; OFF: 22.53'
ELEV = 612.51

BACK OF CURB
EOR
STA: 62+49.50; OFF: 22.56'
ELEV = 612.84

MP
STA: 63+10.27; OFF: 26.31'
ELEV = 612.18

MP
STA: 62+62.69; OFF: 26.96'
ELEV = 612.48

BACK OF CURB
EOR
STA: 63+23.59; OFF: 22.52'
ELEV = 612.45

MATCH EXISTING
BACK OF CURB
STA: 62+69.22; OFF: 34.81'
ELEV = 613.20

MATCH EXISTING
BACK OF CURB
STA: 63+01.02; OFF: 36.61'
ELEV = 613.00

STA: 62+71.46; OFF: 33.70'
ELEV = 612.58

STA: 62+96.03; OFF: 36.30'
ELEV = 612.31

MAGNOLIA ST

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LEGEND

- HMA OVERLAY
- PCC PATCH, 8"
- 6" PCC CURB AND GUTTER
- PCC SIDEWALK, 4"
- PCC DRIVEWAY, 6"
- PCC PAVEMENT, 10"

0 5 10 20
SCALE IN FEET

HALSTEAD ST

MATCH EXISTING
STA: 66+48.55; OFF: -46.97'
ELEV = 610.28

MATCH EXISTING
BACK OF CURB
STA: 66+46.91; OFF: -45.19'
ELEV = 611.09

BACK OF CURB
EOR
STA: 66+51.31; OFF: -39.23'
ELEV = 610.95

MP
STA: 66+52.15; OFF: -34.79'
ELEV = 610.48

MATCH EXISTING
STA: 66+95.18; OFF: -48.20'
ELEV = 610.55

STA: 66+95.65; OFF: -37.96'
ELEV = 610.72

STA: 66+91.74; OFF: -37.90'
ELEV = 610.89

MP
STA: 66+97.42; OFF: -25.68'
ELEV = 610.84

BACK OF CURB
STA: 66+04.28; OFF: -22.69'
ELEV = 611.36

MP
STA: 66+41.46; OFF: -24.37'
ELEV = 610.79

STA: 66+94.24; OFF: -37.94'
ELEV = 610.75

BACK OF CURB
STA: 67+11.73; OFF: -22.83'
ELEV = 611.50

BACK OF CURB
STA: 65+97.23; OFF: -22.73'
ELEV = 611.07

STA: 67+11.73; OFF: -20.33'
ELEV = 610.93

STA: 65+97.22; OFF: -20.23'
ELEV = 611.03

STA: 66+04.29; OFF: -20.19'
ELEV = 610.96

EOR
STA: 66+94.40; OFF: -32.55'
ELEV = 610.78

BACK OF CURB
STA: 66+31.37; OFF: -22.86'
ELEV = 611.17

BACK OF CURB
EOR
STA: 66+50.10; OFF: -30.76'
ELEV = 610.52

STA: 66+31.44; OFF: -20.32'
ELEV = 610.87

STA: 66+38.56; OFF: -20.87'
ELEV = 610.77

BACK OF CURB
EOR
STA: 67+04.37; OFF: -22.85'
ELEV = 610.98

STA: 67+11.77; OFF: 0.00'
ELEV = 611.85

66+00

67+00

68+00

STA: 66+39.46; OFF: 0.00'
ELEV = 611.54

PARK AVE

STA: 66+75.62; OFF: 0.00'
ELEV = 611.59

STA: 65+34.99; OFF: 19.34'
ELEV = 611.41

BACK OF CURB
STA: 65+35.03; OFF: 22.50'
ELEV = 611.68

BACK OF CURB
EOR
STA: 66+07.48; OFF: 22.64'
ELEV = 611.38

STA: 66+15.92; OFF: 20.08'
ELEV = 611.15

STA: 67+34.51; OFF: 20.07'
ELEV = 611.59

STA: 68+08.16; OFF: 20.55'
ELEV = 613.08

MATCH EXISTING
STA: 65+62.57; OFF: 32.31'
ELEV = 611.43

BACK OF CURB
STA: 66+15.93; OFF: 22.58'
ELEV = 611.55

BACK OF CURB
STA: 67+34.59; OFF: 22.57'
ELEV = 612.15

STA: 67+91.04; OFF: 32.50'
ELEV = 612.90

STA: 67+60.01; OFF: 32.65'
ELEV = 612.10

BACK OF CURB
STA: 68+08.70; OFF: 22.99'
ELEV = 613.57

BACK OF CURB
EOR
STA: 65+40.28; OFF: 22.45'
ELEV = 611.53

MP
STA: 65+95.84; OFF: 27.36'
ELEV = 611.41

BACK OF CURB
EOR
STA: 67+37.11; OFF: 22.59'
ELEV = 612.07

MP
STA: 67+99.85; OFF: 26.89'
ELEV = 612.98

MP
STA: 65+51.28; OFF: 25.27'
ELEV = 611.47

MP
STA: 67+50.80; OFF: 26.80'
ELEV = 611.88

MATCH EXISTING
STA: 65+88.12; OFF: 38.66'
ELEV = 611.49

MATCH EXISTING
BACK OF CURB
STA: 65+59.85; OFF: 33.93'
ELEV = 611.63

MATCH EXISTING
BACK OF CURB
STA: 65+90.62; OFF: 38.79'
ELEV = 611.54

MATCH EXISTING
BACK OF CURB
STA: 67+57.91; OFF: 34.01'
ELEV = 612.64

MATCH EXISTING
BACK OF CURB
STA: 67+93.15; OFF: 33.85'
ELEV = 613.39

MATCH EXISTING
STA: 67+62.48; OFF: 45.66'
ELEV = 612.82

MATCH EXISTING
STA: 67+87.85; OFF: 44.84'
ELEV = 613.23

SHERIDAN ST

SHERMAN ST

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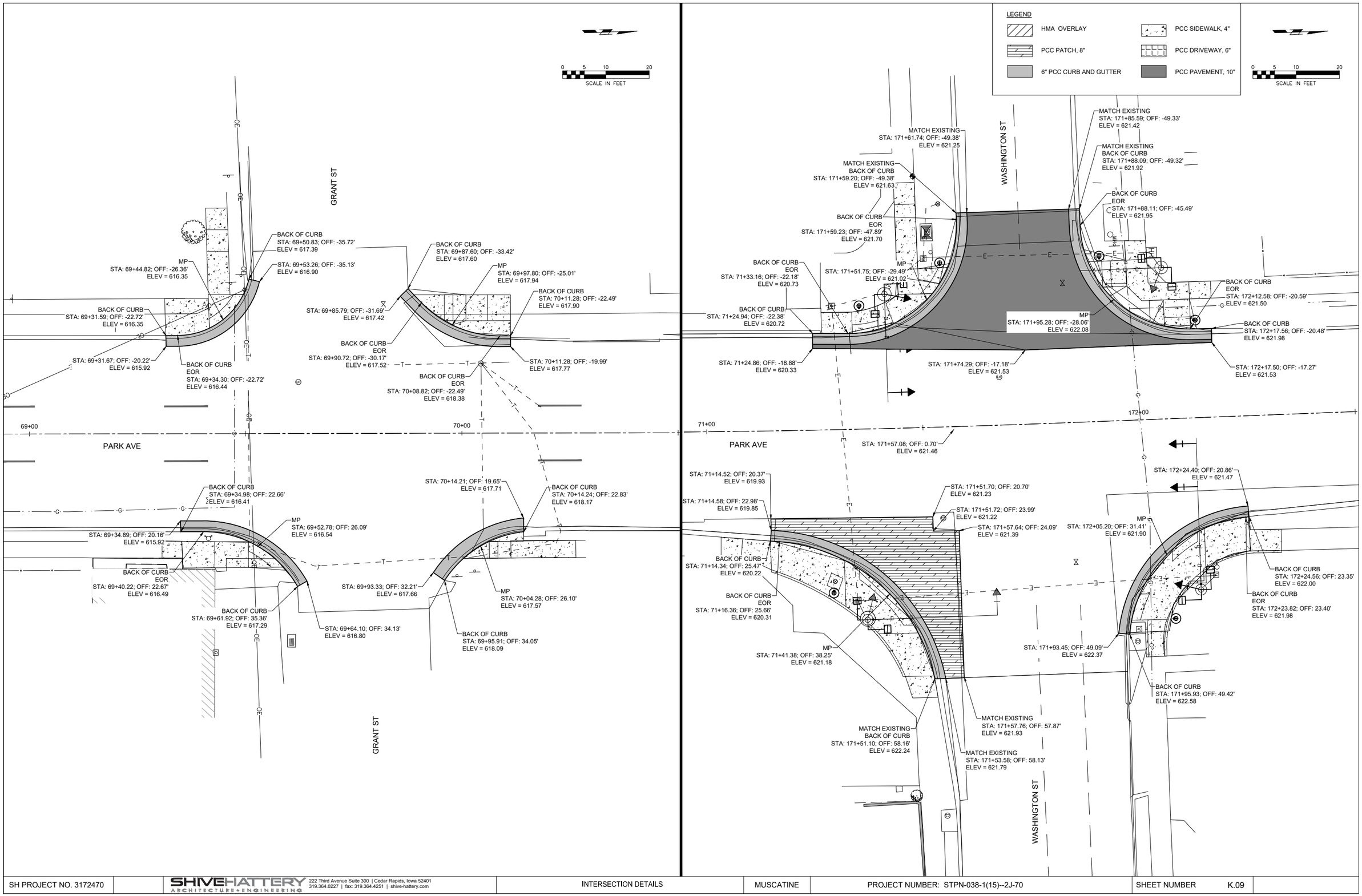

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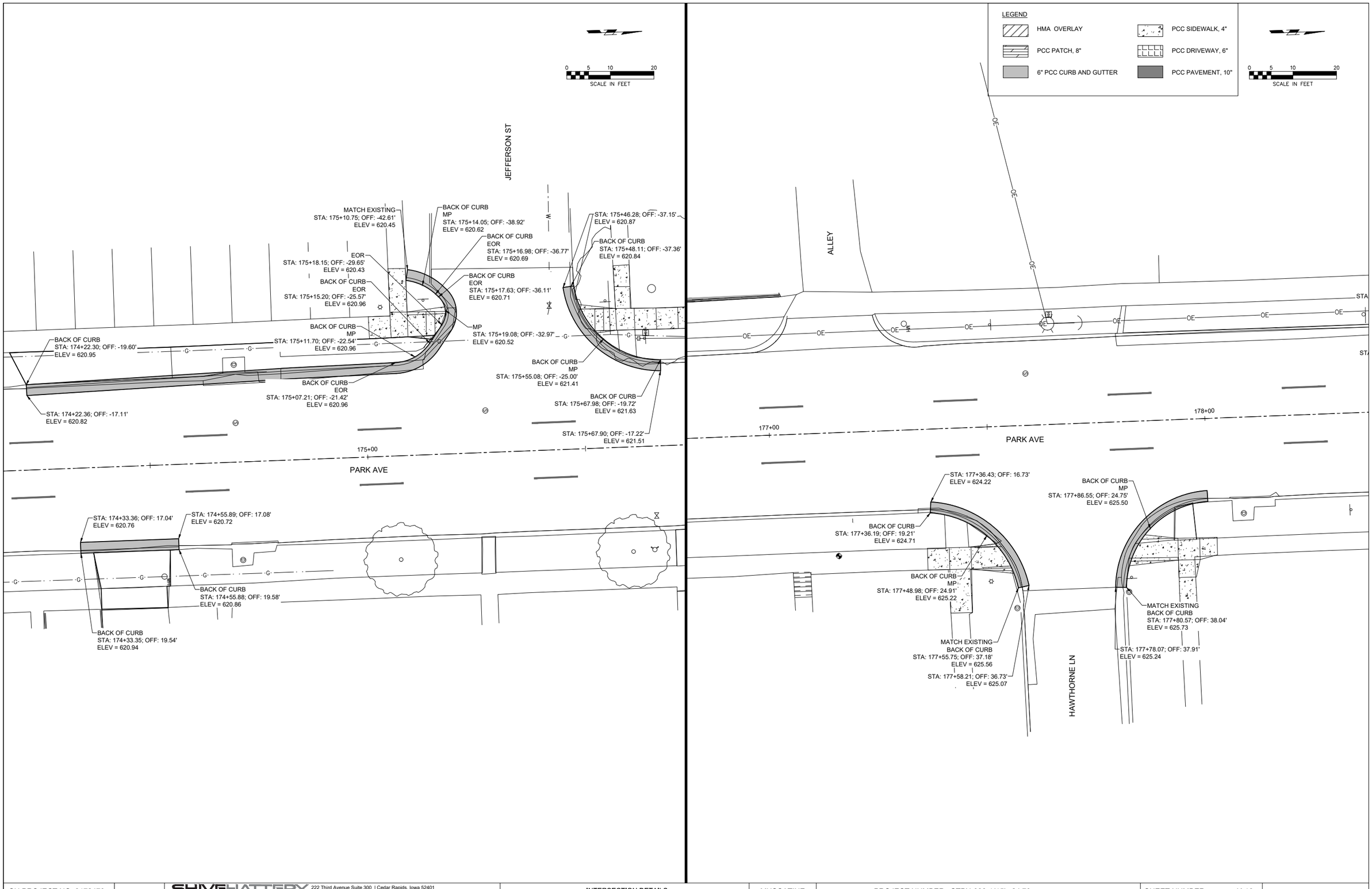

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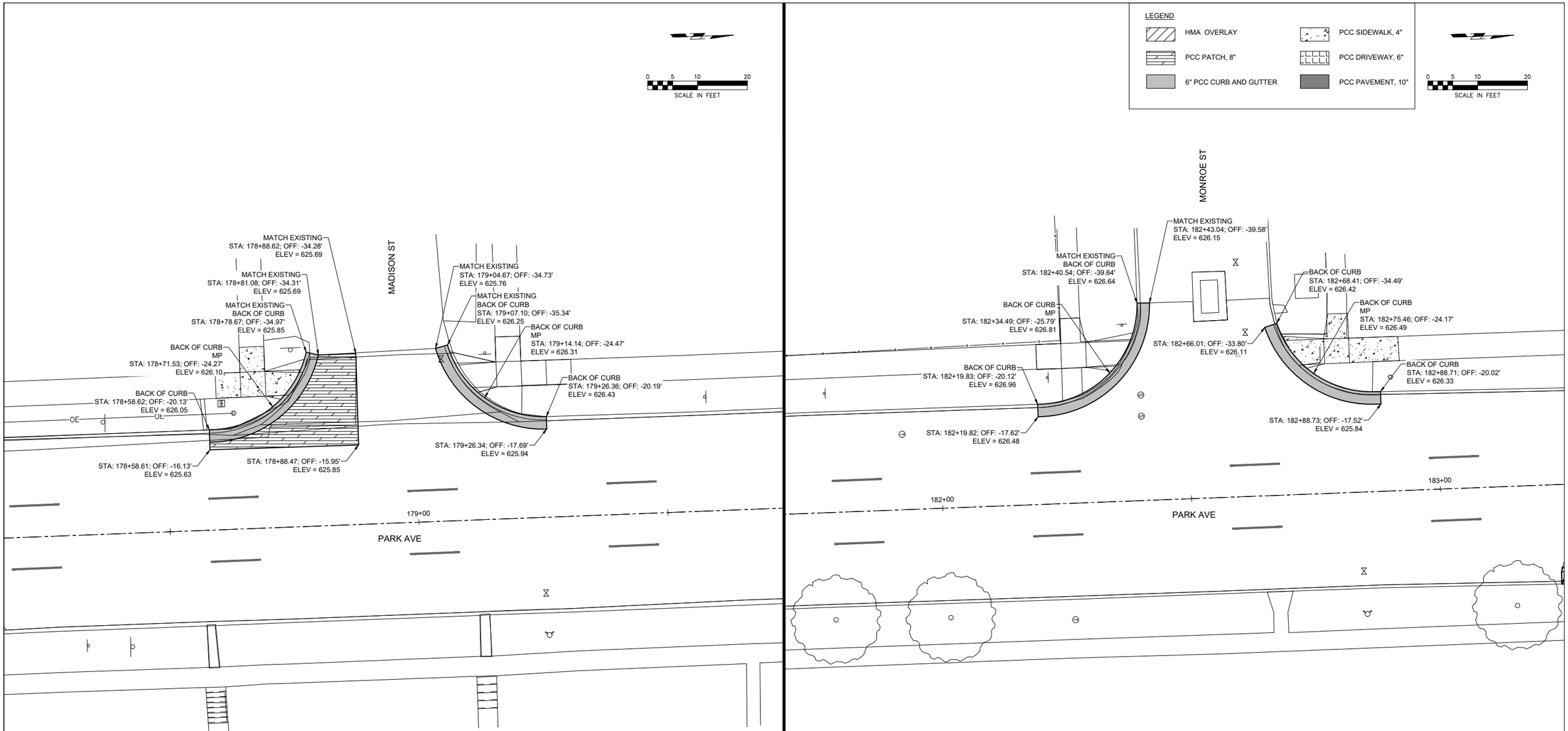
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	INTERSECTION DETAILS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER K.10



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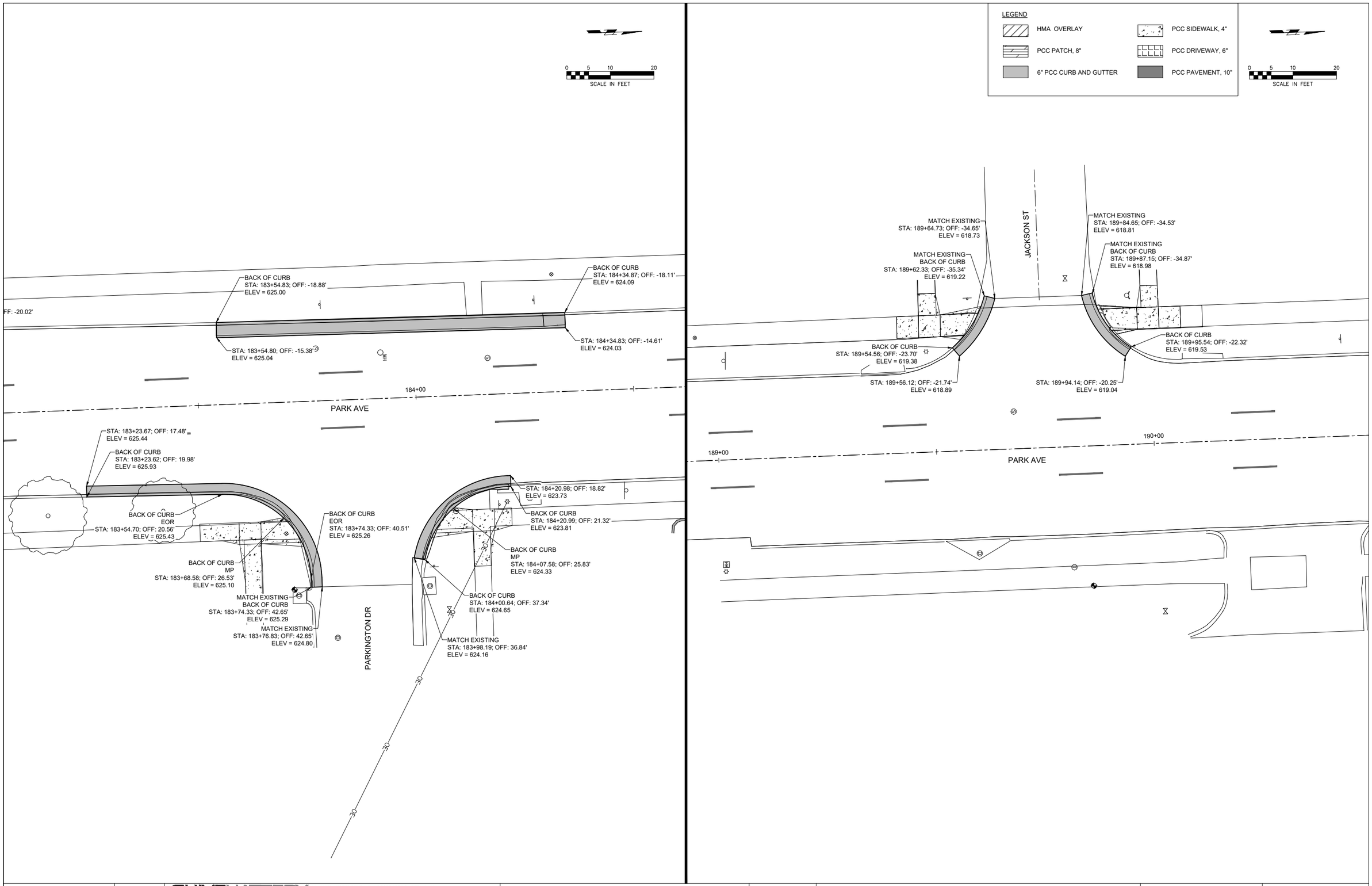
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	INTERSECTION DETAILS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER K.11



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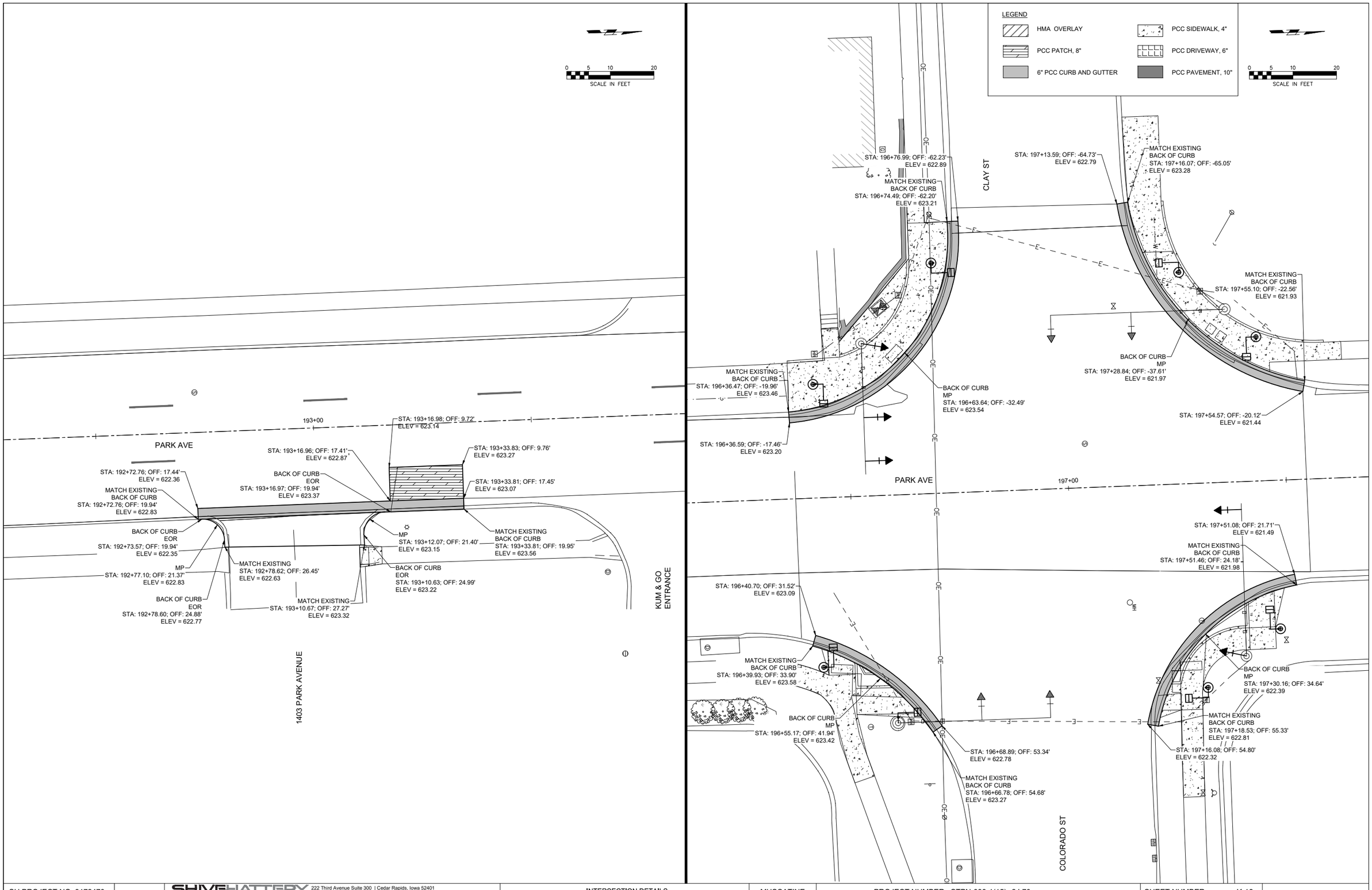
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	INTERSECTION DETAILS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER K.12



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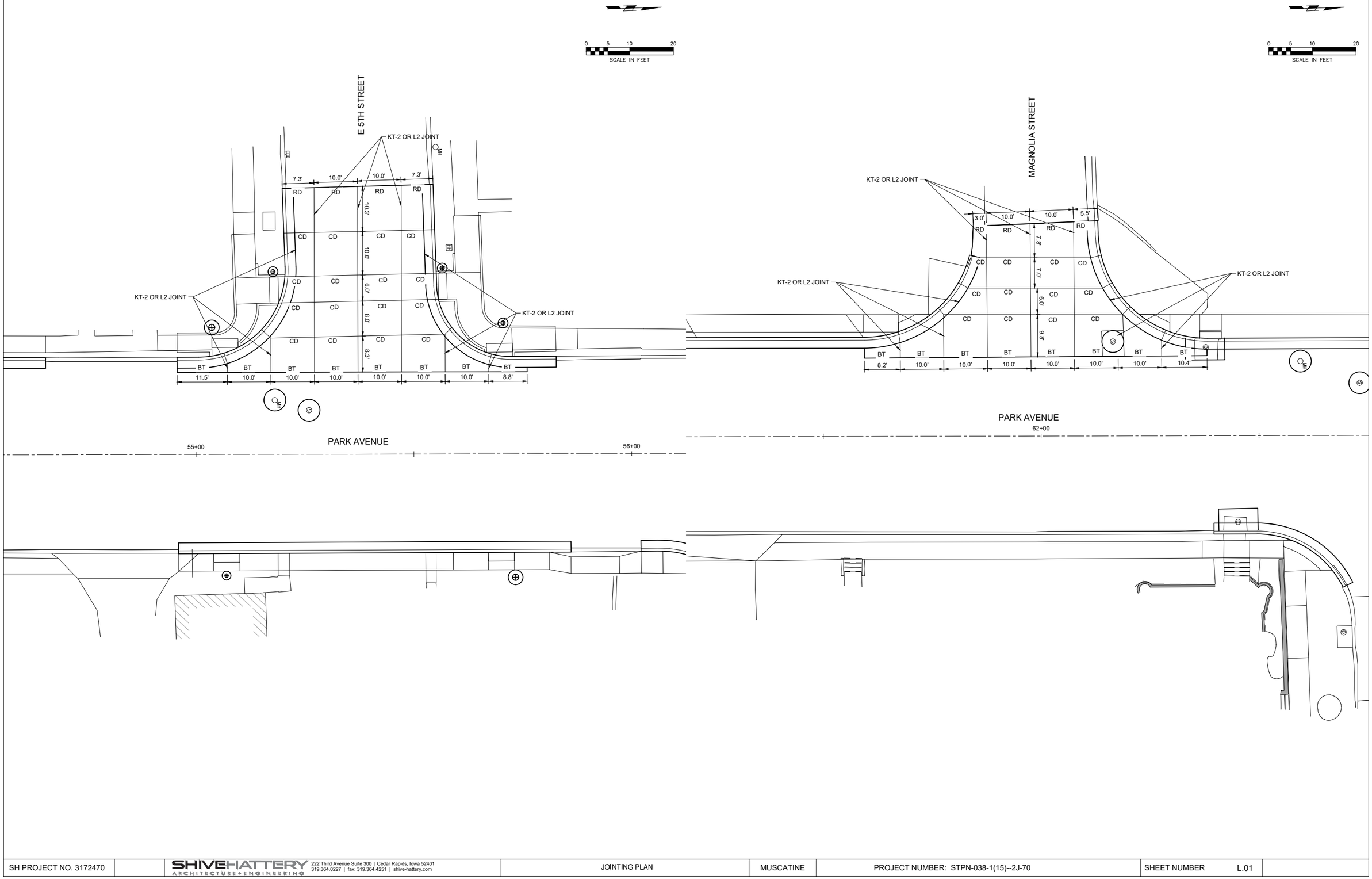
SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE + ENGINEERING	222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	INTERSECTION DETAILS	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER K.13



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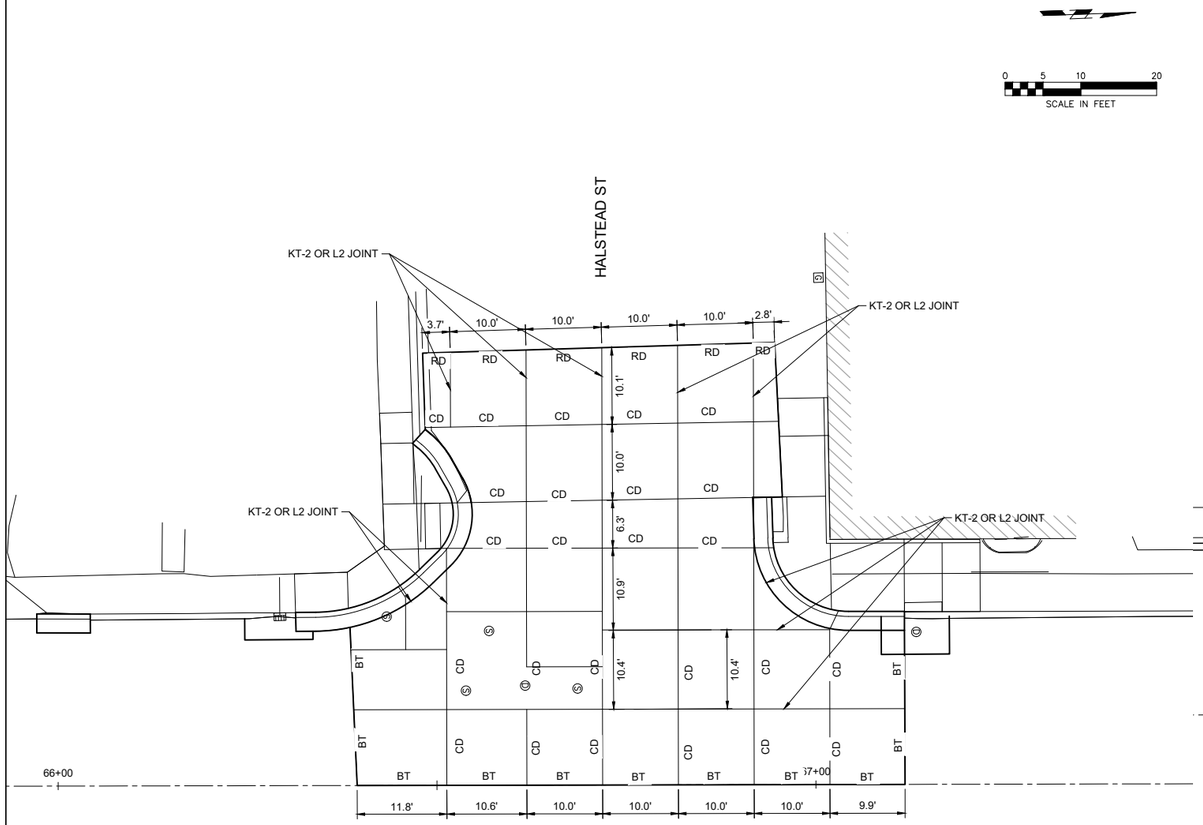
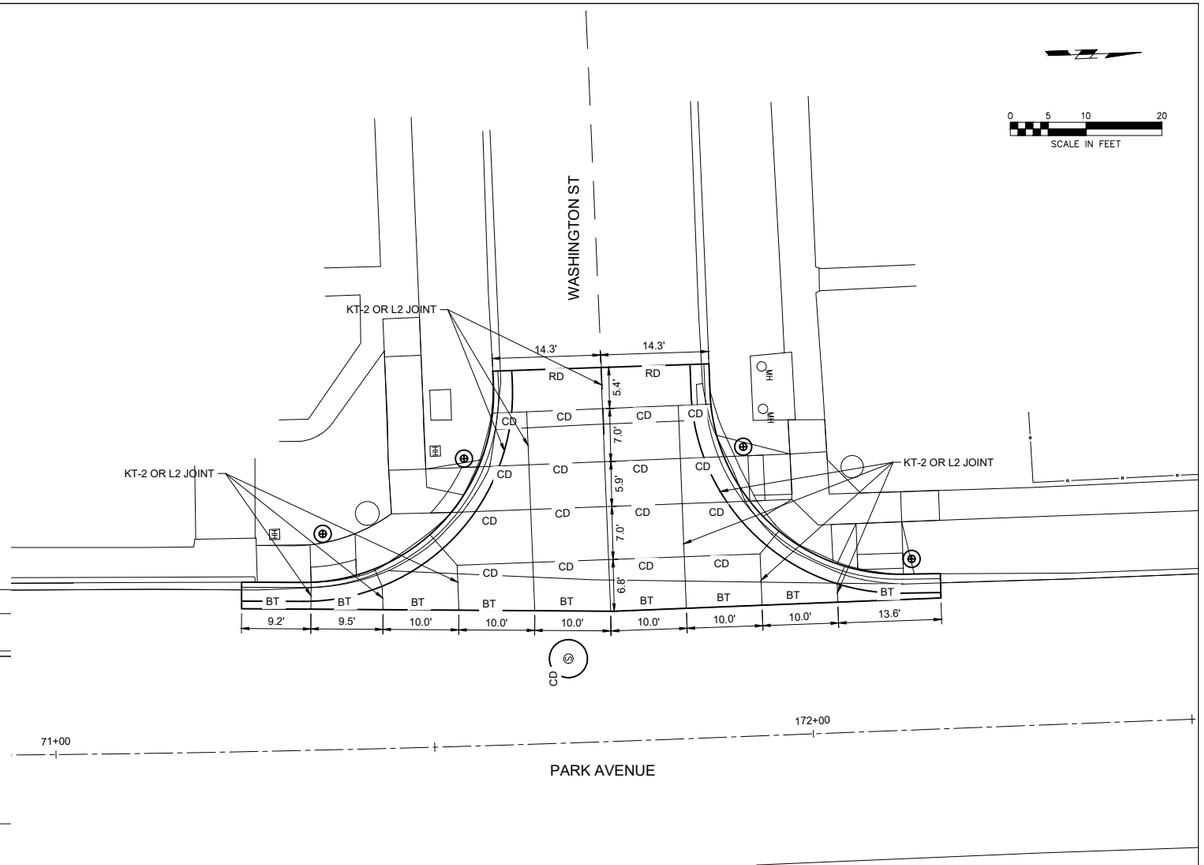
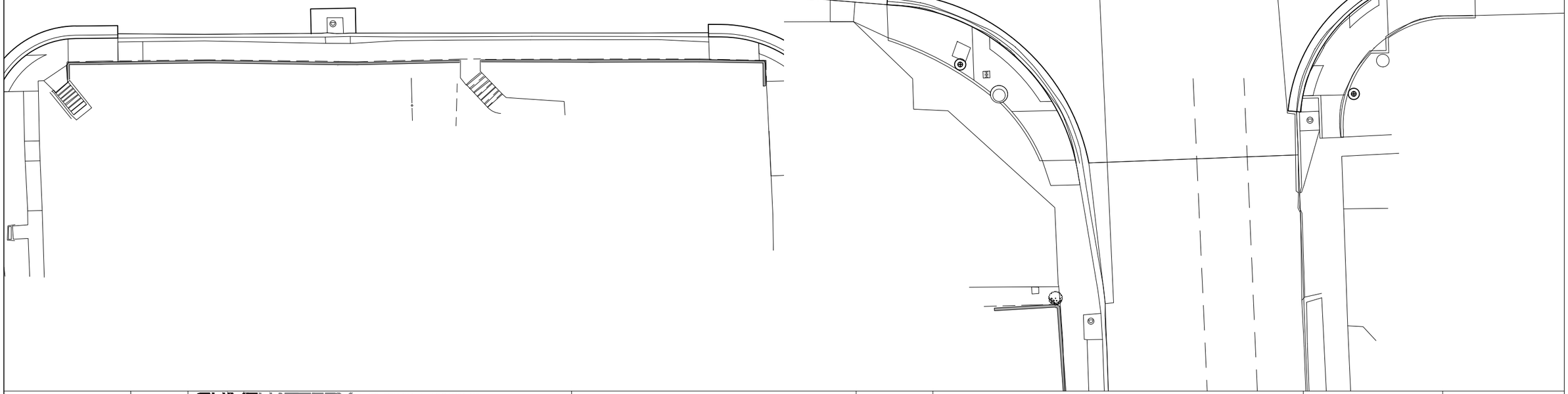
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	JOINTING PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER L.01







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File Name: p:\projects\mo\3172470\deliverables\drawings\1_civil\L.01 jointing plan.dwg

SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	JOINTING PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER L.02

TRAFFIC SIGNAL BILL OF MATERIALS

Item	Description	Unit	Total
1	Pedestrian Push Button with R10–3e Sign	EACH	26
2	Pedestrian Signal Head – 16 in Hand–Walking Person Symbol; Countdow	EACH	26
3	Traffic Signal Head – 12 in R, Y, G with Backplate	EACH	22
4	Traffic Signal Head – 12 in <R, <FY, <Y with Backplate	EACH	2
5	Traffic Signal Head – 12 in <R, <Y, <FY, <G with Backplate	EACH	15
6	Handhole	EACH	9
7	Cable – 2c #14 AWG, Pedestrian Push Buttons	FEET	809
8	Cable – 7c #14 AWG, Signal Circuits	FEET	3257
9	Cable – 20c #14 AWG, Signal Circuits	FEET	2463
10	Cable – Wavetronix SmartSensor Matrix	FEET	2130
11	Cable – 2c #12 AWG with Ground, Lighting	FEET	977
12	Cable – 1c #4 AWG, Lighting	FEET	3573
13	Cable – 1c #6 AWG, Bare Copper Wire for Ground Circuits	FEET	1988
14	Conduit – 2 in PVC (HDPE)	FEET	462
15	Conduit – 4 in PVC (HDPE)	FEET	13
16	Conduit – 4 in GS	FEET	250
17	Concrete Base – Pedestal Pole 2 ft Diameter, 3 ft deep	EACH	21
18	Concrete Base – Type A	EACH	4
19	Pedestal Pole – 6 Ft	EACH	5
20	Pedestal Pole – 10 Ft	EACH	9
21	Pedestal Pole – 15 Ft	EACH	7
22	Pedestal Pole – 17 Ft	EACH	1
23	Combination Mast Arm Pole – 25 ft Mast Arm Length	EACH	1
24	Combination Mast Arm Pole – 35 ft Mast Arm Length	EACH	1
25	Combination Dual Mast Arm Pole – 40 ft and 25 ft Mast Arm Lengths	EACH	1
26	Combination Dual Mast Arm Pole – 45 ft and 30 ft Mast Arm Lengths	EACH	1
27	Luminaires	EACH	4
28	WaveTronix Matrix Sensors	EACH	14
29	Sign Panels	SQ FT	118
30	Drill Existing Handhole	EACH	4
31	Traffic Signal Controller Cabinet Foundation	EACH	2
32	Foundation Excavation in Soils*	CU YD	23

* – Quantity Estimated – To be paid for under separate pay item.

Note: See General Notes #12 & #13 for information regarding material supply and installation.

TRAFFIC CONTROL DEVICES

Item Description	LOCATION	REMARKS
TRAFFIC SIGNAL MODIFICATION	PARK AVE AND COLORADO ST	
TRAFFIC SIGNAL MODIFICATION	PAVE AVE AND WASHINGTON ST	
TRAFFIC SIGNAL MODIFICATION	PARK AVE AND 5TH ST	
TRAFFIC SIGNAL MODIFICATION	HWY 92 AND 2ND ST	

TRAFFIC SIGNAL REMOVAL

Item Description	LOCATION	REMARKS
TRAFFIC SIGNAL POST FOUNDATION REMOVAL	HWY 92 AND 2ND ST	
TRAFFIC SIGNAL POST FOUNDATION REMOVAL	PARK AVE AND 5TH ST	

LIST OF TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED

Item Description	Quantity	Units
Existing traffic signal heads at Park Ave and 2nd St	5	EACH
Existing traffic signal heads at Park Ave and 5th St	6	EACH
Existing traffic signal and pedestrian signal heads at Park Ave and Washington St	12	EACH
Existing traffic signal and pedestrian signal heads at Park Ave and Colorado St	14	EACH

SIGNAL LEGEND

- EXISTING CABINET AND CONTROLLER
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING PEDESTAL POLE
- EXISTING HANDHOLE
- EXISTING SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE AND IDENTIFYING NUMBER
- PEDESTRIAN HEAD AND IDENTIFYING NUMBER
- PEDESTAL POLE, FOOTING AND IDENTIFYING NUMBER
- TRAFFIC SIGNAL POLE, FOOTING AND IDENTIFYING NUMBER
- HANDHOLE
- PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGN
- RADAR DETECTION (WAVETRONIX MATRIX)

LICENSED PROFESSIONAL ENGINEER – DANIEL J. DRAPER – 23117 – IOWA

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME OR BY OTHER DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE LAWS OF THE STATE OF IOWA.

Daniel J. Draper 03/16/20

DANIEL J. DRAPER DATE

IOWA REG. #23117

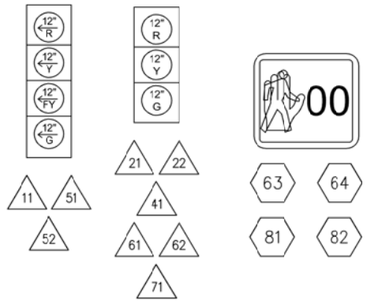
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2020

PAGES OR SHEETS COVERED BY THIS SEAL: N.01 TO N.09

TRAFFIC SIGNAL GENERAL NOTES

1. ALL QUANTITIES SHOWN IN THE PLANS AND SPECIFICATIONS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S LUMP SUM BID FOR THIS PROJECT SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL TRAFFIC SIGNAL SYSTEM IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
2. THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO EXCAVATION ON THE PROJECT.
3. THE LOCATIONS OF ALL FOOTINGS, HANDHOLES AND CONDUIT ARE TO BE COORDINATED WITH THE ENGINEER AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE RESIDENT ENGINEER. ALL LOCATIONS OF FOOTINGS, HANDHOLES AND CONDUIT ARE TO BE VERIFIED BY THE RESIDENT ENGINEER BEFORE EXCAVATION/CONSTRUCTION.
4. THE STATIONS AND OFFSETS LISTED ON THE SIGNAL PLANS ARE TO THE CENTER OF THE ITEM UNLESS OTHERWISE NOTED.
5. THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINETS TO BE REMOVED AT THE E 2ND ST/ HWY 92 AND PARK AVE/E 5TH ST INTERSECTIONS WILL BE REMOVED BY MUSCATINE POWER AND WATER (MP&W). THE CONTRACTOR SHALL PROVIDE MP&W A MINIMUM OF 24 HOURS NOTICED PRIOR TO DESIRED REMOVAL OF THE CABINETS. ALL OTHER COMPONENTS OF THE EXISTING TRAFFIC SIGNAL INSTALLATIONS TO BE REMOVED SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO MP&W, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR HAS THE OPTION TO BORE OR TRENCH CONDUIT; HOWEVER, THE CONDUIT SHALL BE BORED UNDER NEW OR EXISTING PAVEMENT. PAVEMENT SHALL NOT BE DISTURBED BY SIGNAL CONSTRUCTION.
7. AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
8. ALL MAST ARM MOUNTED SIGNAL HEADS SHALL COME FURNISHED WITH BACKPLATES. YELLOW RETRO–REFLECTIVE SHEETING SHALL BE APPLIED TO ALL EXISTING AND PROPOSED TRAFFIC SIGNAL BACKPLATES.
9. A #6 A.W.G. BARE COOPER GROUND WIRE SHALL BE INSTALLED IN ALL PVC CONDUITS THAT CARRY 120 VOLT SIGNAL CABLES. ALL STEEL CONDUIT, POLES, PEDESTALS, AND CONTROLLER CABINETS AT EACH INTERSECTION SHALL BE BONDED TO FORM A CONTINUOUS SYSTEM AND BE EFFECTIVELY GROUNDED. BONDING JUMPERS SHALL BE #6 A.W.G. BARE COPPER WIRE CONNECTED BY APPROVED CLAMPS.
10. THE CONTRACTOR SHALL REMOVE ANY EXISTING SIGNAL POLE FOUNDATIONS TO 3–FT BELOW FINISHED GRADE.
11. WAVETRONIX MATRIX SHALL BE UTILIZED FOR VEHICLE DETECTION FOR EACH INTERSECTION. WAVETRONIX SENSORS SHALL BE MOUNTED ON THE MAST ARM VERTICAL POLES. ALL HARDWARE, MOUNTING AND INSTALLATION SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS.
12. THE CONTRACTOR TO SUPPLY ALL TRAFFIC SIGNAL APPURTENANCES AND MATERIAL BELOW GRADE INCLUDING THE FOUNDATION. MUSCATINE POWER AND WATER (MP&W) WILL SUPPLY ALL TRAFFIC SIGNAL AND LIGHTING APPURTENANCES ABOVE AND INCLUDING THE ANCHOR BOLTS AND BOLT CIRCLE TEMPLATE.
13. THE CONTRACTOR WILL INSTALL ALL TRAFFIC SIGNAL MATERIALS AND APPURTENANCES OUTSIDE OF THE CONTROLLER CABINET. MP&W WILL PERFORM WIRING TERMINATIONS AT THE TRAFFIC SIGNAL CABINETS AND INSTALL EQUIPMENT IN THE CABINETS.
14. EXISTING DETECTOR LOOPS TO BE ABANDONED. DETECTOR LOOP WIRING BEHIND CURB SHALL BE REMOVED.
15. THE CONTRACTOR SHALL INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO THE BASE OF THE POLE. A 7–CONDUCTOR CABLE SHALL BE USED FOR PEDESTRIAN HEADS AND EITHER A 3, 4 OR 5–SECTION SIGNAL HEAD.
16. ALL PEDESTRIAN PUSH BUTTONS ARE TO BE WITHIN 10 INCHES OF THE EDGE OF PEDESTRIAN LANDING. BUTTON EXTENDERS MAY BE NECESSARY.
17. THE CONTRACTOR SHALL ROD AND CLEAN THE EXISTING CONDUIT PRIOR TO INSTALLATION OF THE NEW WIRING.
18. TRAFFIC SIGNAL HEADS SHALL BE MOUNTED VIA DRILL AND TAP INSTEAD OF BANDING.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING IOWA 811 PRIOR TO DIGGING.
20. THE CONTRACTOR SHALL ERECT TEMPORARY STOP SIGNS WHENEVER SIGNALS ARE NOT ACTIVE. UNLESS APPROVED BY THE ENGINEER.
21. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND MUSCATINE POWER AND WATER AT LEAST 24 HOURS IN ADVANCE OF ANY OPERATIONS WHICH WILL REQUIRE TRAFFIC SIGNAL CABINET WORK.

TRAFFIC SIGNAL FACES



CONSTRUCTION NOTES:

1. CONTRACTOR TO INSTALL 2" CONDUIT TO POWER POLE AND PULL WIRE FROM POWER POLE TO CONTROLLER CABINET.
2. MPW TO SET METER AND MAKE FINAL CONNECTION TO WIRES AT THE POWER POLE.
3. REFER TO PLAN SHEET N.03 FOR WIRE REQUIREMENTS.
4. SIGNS TO BE PLACED 2' FROM CENTER OF PROPOSED SIGNAL HEADS MOUNTED ON MAST ARMS.

SIGNAL DETAIL



SIGN (A) R10-12a 30"x36" (2 REQUIRED)

SIGN (B) R3-7 30"x30" (4 REQUIRED)

SIGN (C) R3-7 30"x30" (1 REQUIRED)

FOUNDATION TABLE

FOUNDATION LOCATION	MAST ARM LENGTH (FT)	FOUNDATION DIAMETER (IN)	FOUNDATION EMBEDMENT DEPTH
NE QUAD	35	36	14'-6"
SW QUAD	40 DUAL	36	15'-6"

SCALE IN FEET 0 5 10 20

NO LEFT TURN

ALLEY

STA 34+15
26' LT
6' PEDESTAL POLE
PEDESTAL POLE FOUNDATION

STA 34+20
39' LT
TYPE "A" FOUNDATION

STA 34+28
25' LT
NEW HANDHOLE

25' MAST ARM

PEDESTAL POLE AND FOUNDATION TO BE REMOVED

EXISTING HANDHOLE

SIGNAL POLE AND FOUNDATION TO BE REMOVED

EXISTING STORM INTAKE (TYP)

40' MAST ARM

33+00

34+00

35+00

11

51

21

E 2ND STREET

61

EXISTING CONDUIT (TYP)

35' MAST ARM

EXISTING STORM INTAKE (TYP)

STA 35+07
31' RT
TYPE "A" FOUNDATION

SIGNAL POLE AND FOUNDATION TO BE REMOVED

STA 35+03
35' RT
NEW HANDHOLE

EXISTING SIGNAL CABINET TO BE REMOVED (BY OTHERS). EXISTING FOUNDATION TO BE REMOVED AND REPLACED WITH NEW FOUNDATION IN SAME LOCATION.
SIGNAL CABINET TO BE INSTALLED (BY OTHERS) ON NEW FOUNDATION.

EXISTING HANDHOLE TO BE REMOVED

STA 34+82
53' RT
NEW HANDHOLE

STA 34+69
49' RT
10' PEDESTAL POLE
PEDESTAL POLE FOUNDATION

EXISTING VEHICLE DETECTION (TYP) TO BE ABANDONED

STA 33+72
39' RT
15' PEDESTAL POLE
PEDESTAL POLE FOUNDATION

STA 33+77
53' RT
NEW HANDHOLE

STA 33+86
50' RT
17' PEDESTAL POLE
PEDESTAL POLE FOUNDATION

PEDESTRIAN PUSH BUTTON WITH COUNTDOWN PEDESTRIAN SIGNAL (TYP)

NEW CONDUIT (TYP)

HIGHWAY 92

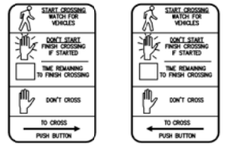
71

41

NOTE:

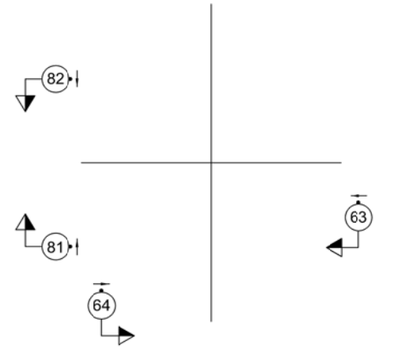
THE BORINGS AT THE INTERSECTION OF HIGHWAY 92 WITH 2ND STREET ENCOUNTERED A FAIR AMOUNT OF SAND. THE CONTRACTOR MAY NEED TO USE A TEMPORARY CASING TO INSTALL THE FOUNDATIONS IF GROUND-WATER IS HIGH AT THE TIME OF INSTALLATION.

PEDESTRIAN PUSHBUTTON SIGNS



R10-3eR R10-3eL

PEDESTRIAN PUSHBUTTON AND SIGNAL FACE MOUNTING



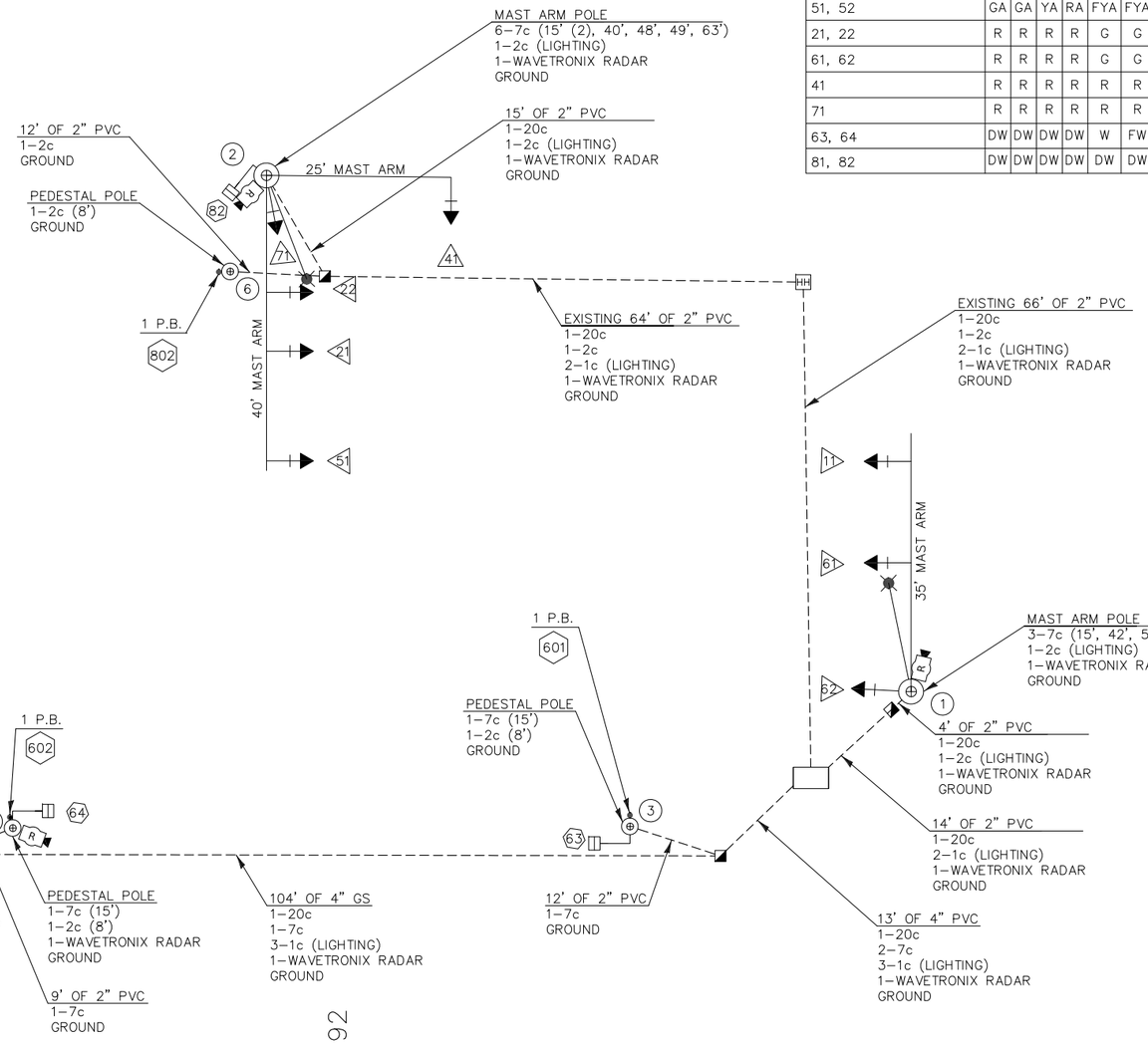
SH PROJECT NO. 3172470		Hutchison Engineering, inc. 1518 Fifth Avenue Suite 302 | Moline, Illinois 61265 309-230-1491 | www.hutchisoneng.com	TRAFFIC SIGNAL	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)-2J-70	SHEET NUMBER N.02	

SUGGESTED TIMINGS (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	3	5		5	3	5		
PASSAGE	3	3		3	3	3		
MAXIMUM I	10	37		33	10	37		
MAXIMUM II								
YELLOW CHANGE	4	4		4	4	4		
RED CLEARANCE	4	4		4	4	4		
WALK		7		7		7		
PEDESTRIAN CLEARANCE		21		19		21		
ADDED INITIAL								
TIME TO REDUCE								
TIME BEFORE REDUCTION								
MAXIMUM GAP								

PHASE SEQUENCE CHART

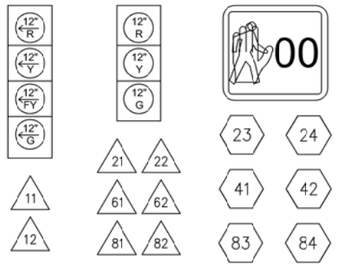
PHASE / NUMBER	① ⑤				② ⑥				④					FLASHING
	01+05				02+06				04					
11	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA		R
51, 52	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA		R
21, 22	R	R	R	R	G	G	Y	R	R	R	R	R		R
61, 62	R	R	R	R	G	G	Y	R	R	R	R	R		R
41	R	R	R	R	R	R	R	R	G	G	Y	R		R
71	R	R	R	R	R	R	R	R	G	G	Y	R		R
63, 64	DW	DW	DW	DW	W	FW	DW	DW	DW	DW	DW	DW		–
81, 82	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW		–



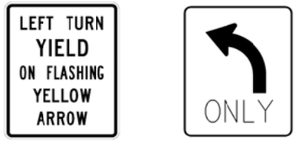
DETECTOR SUMMARY

DETECTOR NUMBER	LOOP SIZE	PED PUSH BUTTON	DELAY TIME (SEC.)	PHASE CALLED	NO. OF CHANNELS	PRESENCE MODE	IMPULSE MODE	WIRED IN SERIES	COMMENTS
11	RADAR			1	1	X			
51	RADAR			5	1	X			
21	RADAR			2	1	X			
61	RADAR			6	1	X			
41	RADAR			4	1	X			
71	RADAR			4	1	X			
601, 602		X		6					
801, 802		X		4					

TRAFFIC SIGNAL FACES

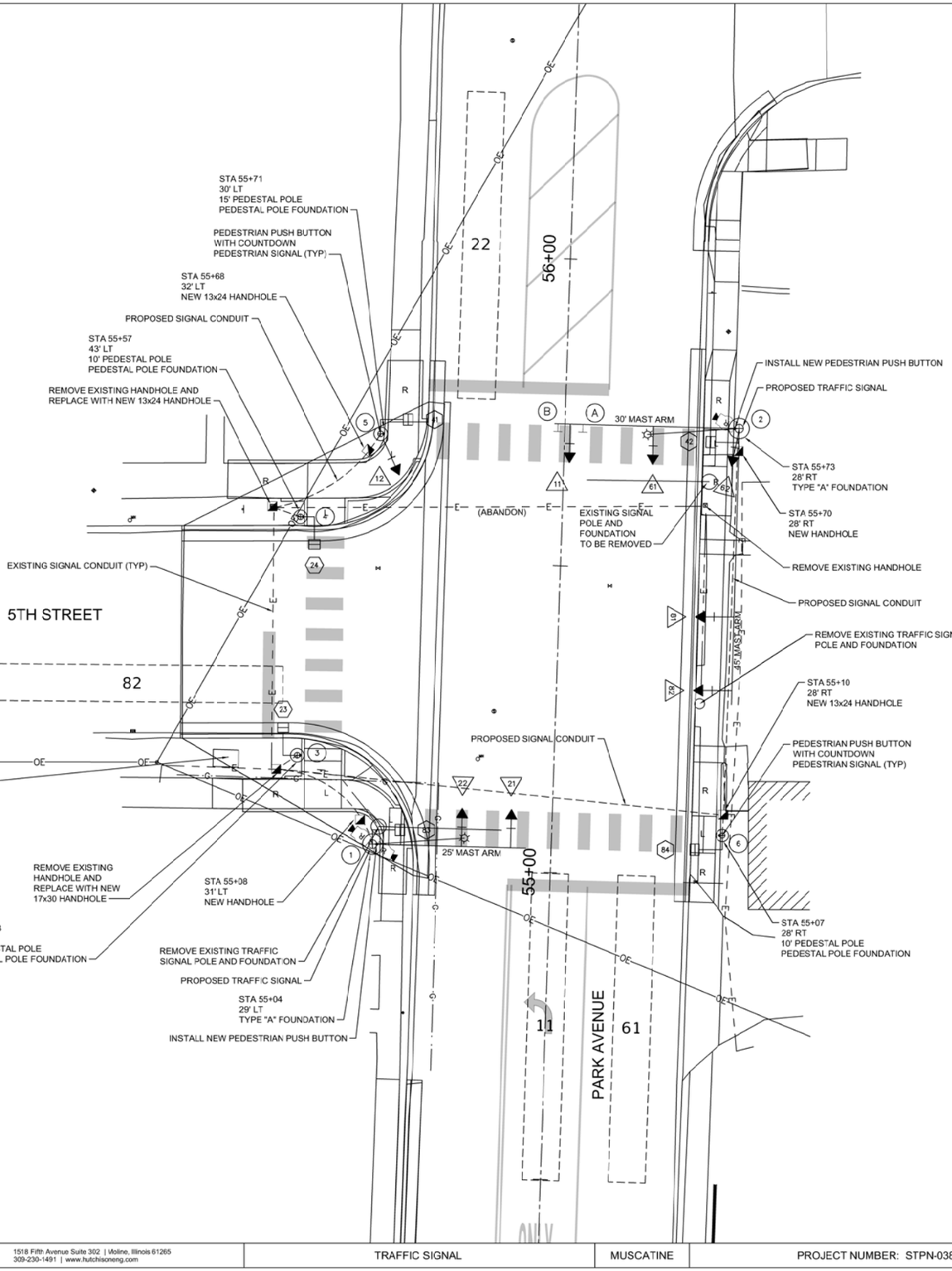


SIGNAL DETAIL

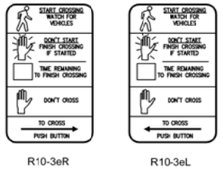


SIGN (A)
R10-12a
30"x36"
(1 REQUIRED)

SIGN (B)
R3-7
30"x30"
(1 REQUIRED)

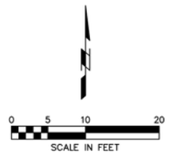


PEDESTRIAN PUSHBUTTON SIGNS



R10-3eR

R10-3eL



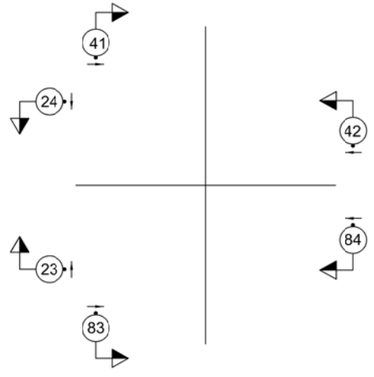
FOUNDATION TABLE

FOUNDATION LOCATION	MAST ARM LENGTH (FT)	FOUNDATION DIAMETER (IN)	FOUNDATION EMBEDMENT DEPTH
NE QUAD	45 DUAL	36	14'-6"
SW QUAD	25	36	9'-0"

CONSTRUCTION NOTE:

1. SIGNS TO BE PLACED 2' FROM CENTER OF PROPOSED SIGNAL HEAD MOUNTED ON MAST ARM.

PEDESTRIAN PUSHBUTTON AND SIGNAL FACE MOUNTING

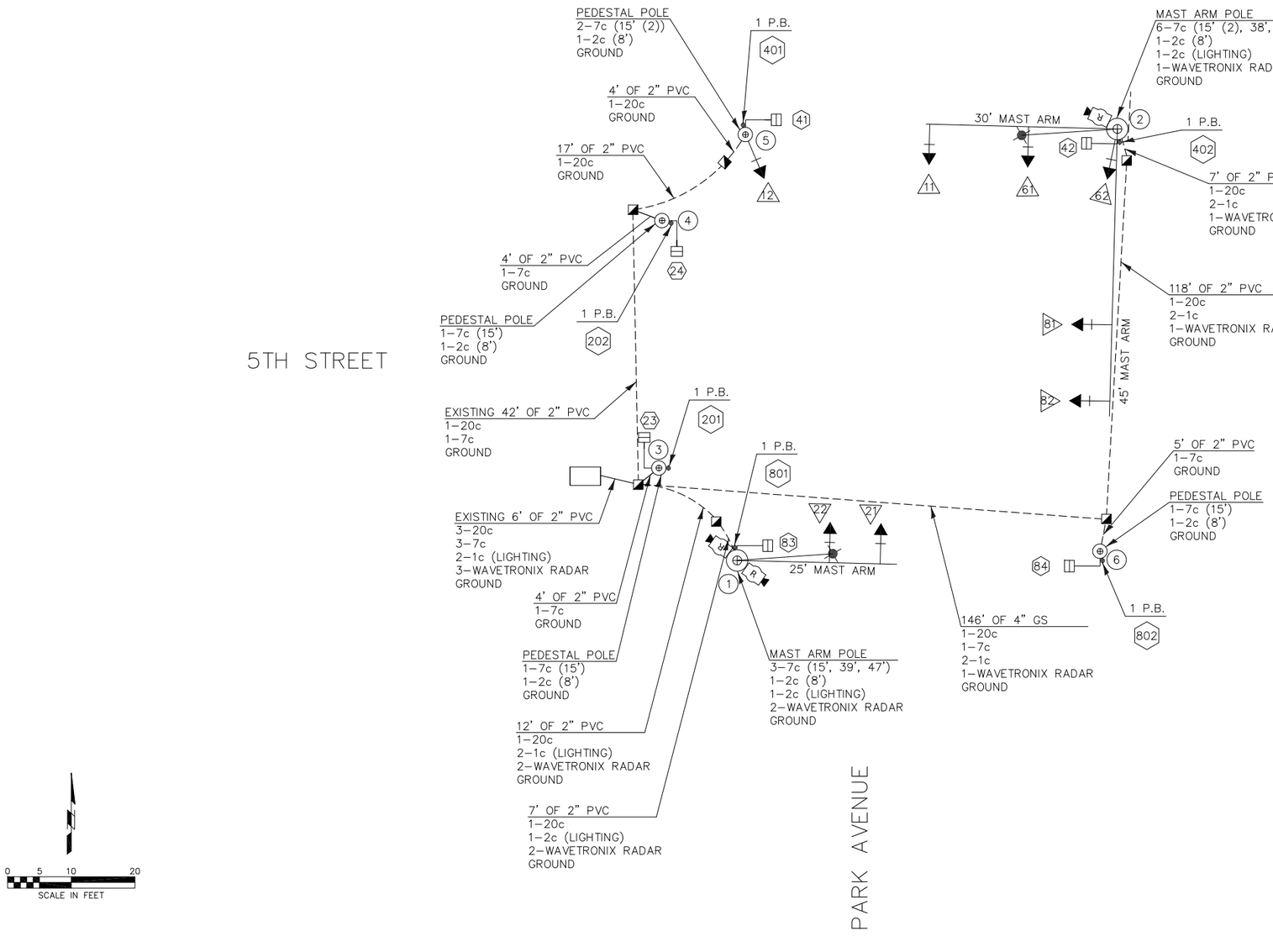


SUGGESTED TIMINGS (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	3	5				3		5
PASSAGE	3	3				3		3
MAXIMUM I	10	42				42		28
MAXIMUM II								
YELLOW CHANGE	4	4				4		3
RED CLEARANCE	2	2				2		3
WALK		7				7		7
PEDESTRIAN CLEARANCE		12				12		14
ADDED INITIAL								
TIME TO REDUCE								
TIME BEFORE REDUCTION								
MAXIMUM GAP								

PHASE SEQUENCE CHART

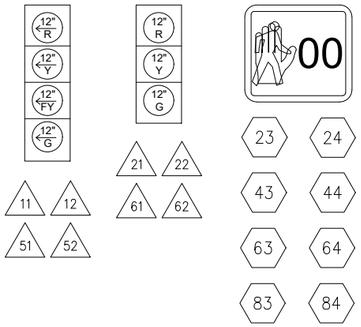
PHASE / NUMBER	01 06				02 06				08					FLASHING
	01+06				02+06				08					
11, 12	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA		R
21, 22	R	R	R	R	G	G	Y	R	R	R	R	R		R
61, 62	G	G	Y	R	G	G	Y	R	R	R	R	R		R
81, 82	R	R	R	R	R	R	R	R	G	G	Y	R		R
23, 24	DW	DW	DW	DW	W	FW	DW	DW	DW	DW	DW	DW		–
41, 42	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW		–
83, 84	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW		–



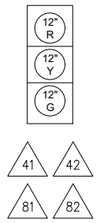
DETECTOR SUMMARY

DETECTOR NUMBER	LOOP SIZE	PED PUSH BUTTON	DELAY TIME (SEC.)	PHASE CALLED	NO. OF CHANNELS	PRESENCE MODE	IMPULSE MODE	WIRED IN SERIES	COMMENTS
11	RADAR			1	1	X			
22	RADAR			2	1	X			
61	RADAR			6	1	X			
82	RADAR			8	1	X			
201, 202		X		8					
401, 402		X		8					
801, 802		X		2					

TRAFFIC SIGNAL FACES



EXISTING TRAFFIC SIGNAL FACES



SIGNAL DETAIL

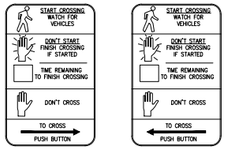


SIGN (A) R10-12a 30"x36" (2 REQUIRED)

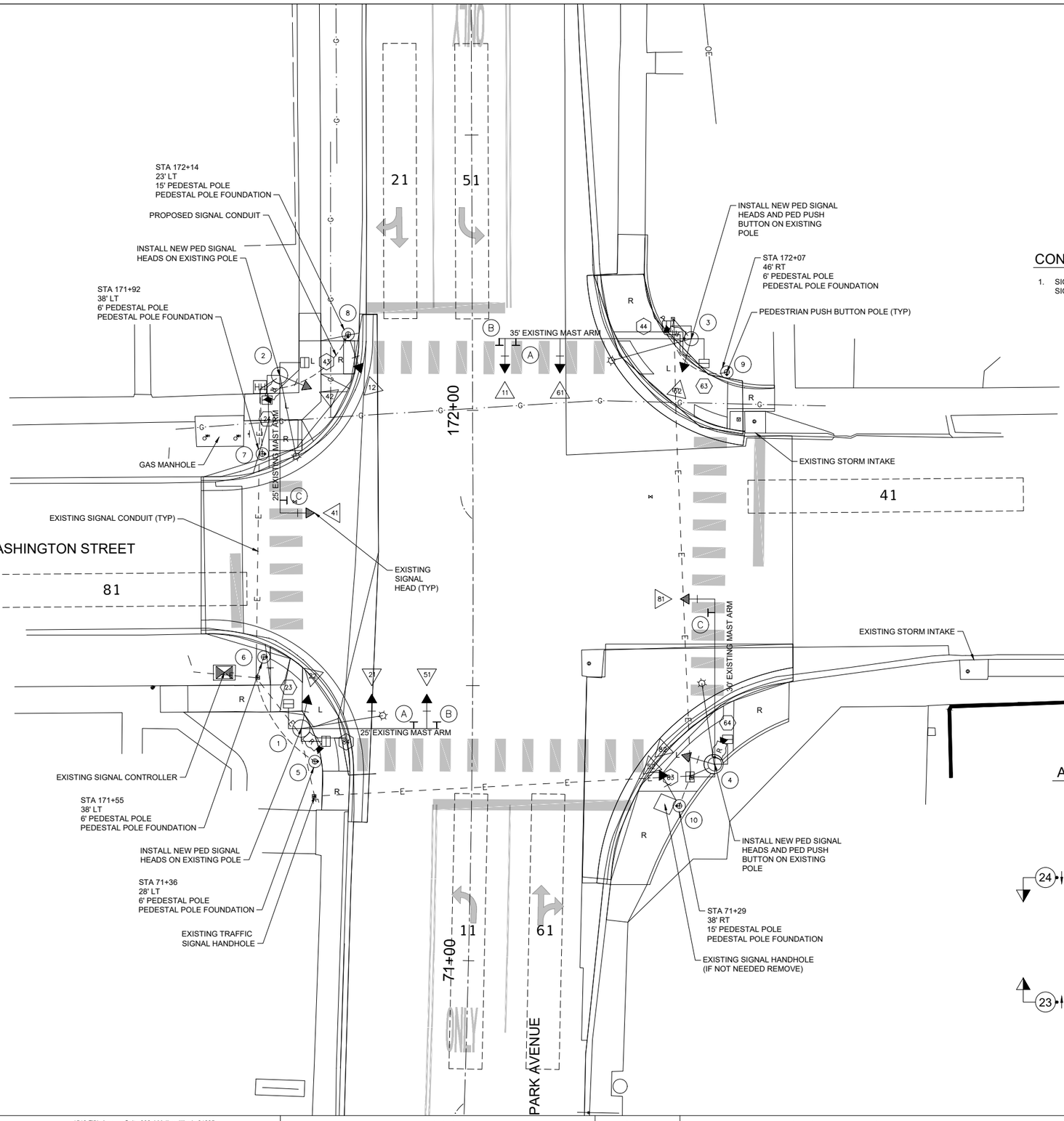
SIGN (B) R3-7 30"x30" (2 REQUIRED)

SIGN (C) R10-12a 30"x36" (2 REQUIRED)

PEDESTRIAN PUSHBUTTON SIGNS



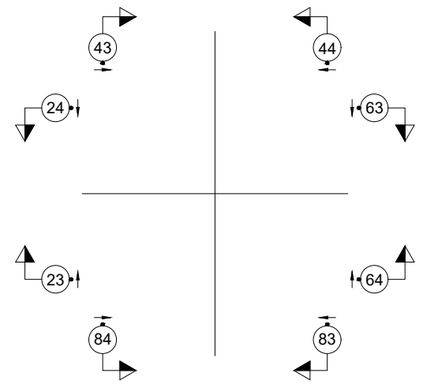
R10-3eR R10-3eL



CONSTRUCTION NOTE:

1. SIGNS TO BE PLACED 2' FROM CENTER OF PROPOSED SIGNAL HEADS MOUNTED ON MAST ARMS.

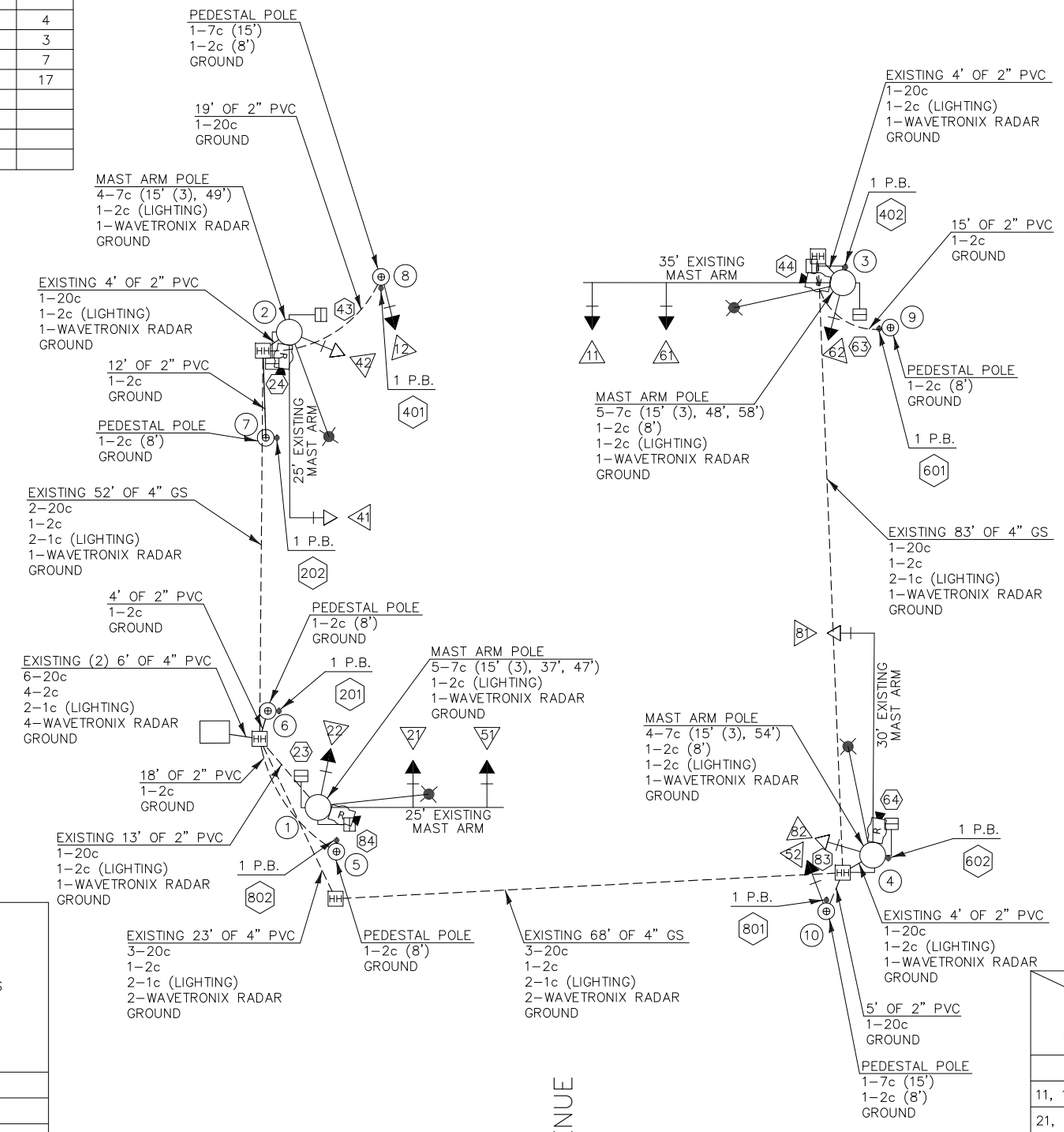
PEDESTRIAN PUSHBUTTON AND SIGNAL FACE MOUNTING



SH PROJECT NO. 3172470		Hutchison Engineering, Inc. 1518 Fifth Avenue Suite 302 | Moline, Illinois 61265 309-230-1491 | www.hutchisoneng.com	TRAFFIC SIGNAL	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)-2J-70	SHEET NUMBER N.06

SUGGESTED TIMINGS (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	3	5		5	3	5		5
PASSAGE	3	3		3	3	3		3
MAXIMUM I	10	35		35	10	35		35
MAXIMUM II								
YELLOW CHANGE	4	4		4	4	4		4
RED CLEARANCE	2	2		3	2	2		3
WALK		7		7		7		7
PEDESTRIAN CLEARANCE		17		17		17		17
ADDED INITIAL								
TIME TO REDUCE								
TIME BEFORE REDUCTION								
MAXIMUM GAP								



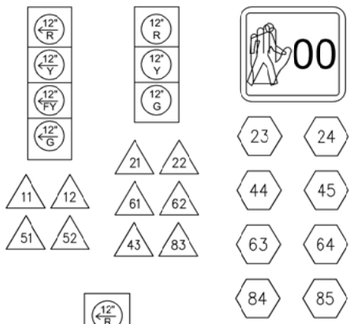
DETECTOR SUMMARY

DETECTOR NUMBER	LOOP SIZE	PED PUSH BUTTON	DELAY TIME (SEC.)	PHASE CALLED	NO. OF CHANNELS	PRESENCE MODE	IMPULSE MODE	WIRED IN SERIES	COMMENTS
11	RADAR			1	1	X			
21	RADAR			2	1	X			
41	RADAR			4	1	X			
51	RADAR			5	1	X			
61	RADAR			6	1	X			
81	RADAR			8	1	X			
201, 202		X		2					
401, 402		X		4					
601, 602		X		2					
801, 802		X		4					

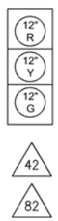
PHASE SEQUENCE CHART

PHASE / NUMBER	(01) (05)				(02) (06)				(04) (08)								FLASHING
	01+05				02+06				04+08								
11, 12	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA					R
21, 22	R	R	R	R	G	G	Y	R	R	R	R	R					R
41, 42	R	R	R	R	R	R	R	R	G	G	Y	R					R
51, 52	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA					R
61, 62	R	R	R	R	G	G	R	R	R	R	R	R					R
81, 82	R	R	R	R	R	R	R	R	G	G	Y	R					R
23, 24	DW	DW	DW	DW	W	FW	DW	DW	DW	DW	DW	DW					–
43, 44	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW					–
63, 64	DW	DW	DW	DW	W	FW	DW	DW	DW	DW	DW	DW					–
83, 84	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW					–

TRAFFIC SIGNAL FACES



EXISTING TRAFFIC SIGNAL FACES



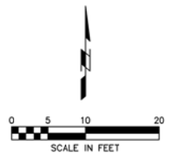
SIGNAL DETAIL



SIGN (A) R10-12a 30"x36" (4 REQUIRED)



SIGN (B) R3-7 30"x30" (4 REQUIRED)



CONSTRUCTION NOTE:

1. SIGNS TO BE PLACED 2' FROM CENTER OF PROPOSED SIGNAL HEADS MOUNTED ON MAST ARMS.

PEDESTRIAN PUSHBUTTON SIGNS

R10-3eR R10-3eL

PEDESTRIAN PUSHBUTTON AND SIGNAL FACE MOUNTING

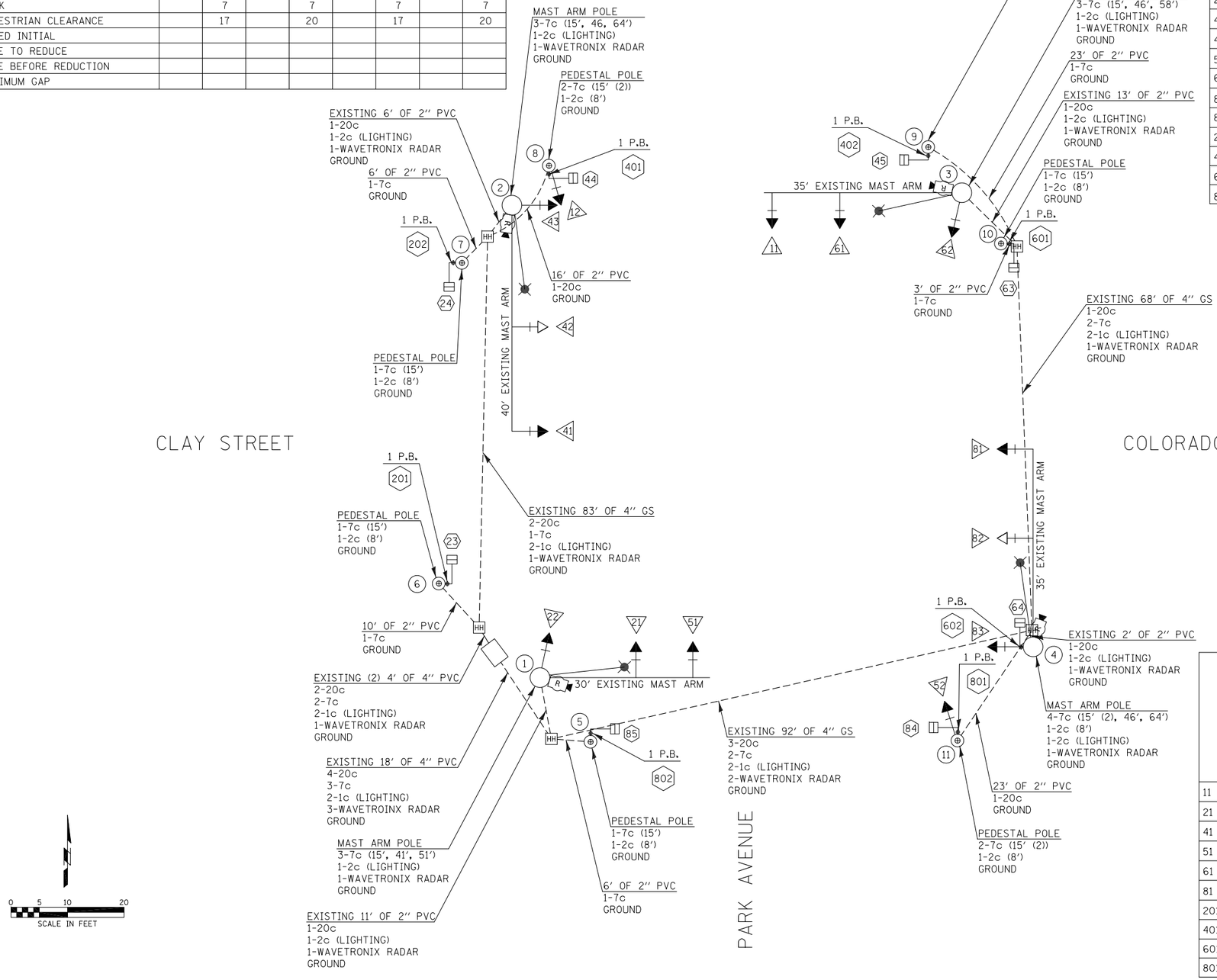
SH PROJECT NO. 3172470		Hutchison Engineering, inc. 1518 Fifth Avenue Suite 302 | Moline, Illinois 61265 309-230-1491 | www.hutchisoneng.com	TRAFFIC SIGNAL	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)-2J-70	SHEET NUMBER N.08

SUGGESTED TIMINGS (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN	3	5		5	3	5		5
PASSAGE	3	3		3	3	3		3
MAXIMUM I	10	35		35	10	35		35
MAXIMUM II								
YELLOW CHANGE	4	4		4	4	4		4
RED CLEARANCE	2	2		3	2	2		3
WALK		7		7		7		7
PEDESTRIAN CLEARANCE		17		20		17		20
ADDED INITIAL								
TIME TO REDUCE								
TIME BEFORE REDUCTION								
MAXIMUM GAP								

PHASE SEQUENCE CHART

PHASE / NUMBER	① ⑤				② ⑥				④ ⑧								FLASHING
	01+05				02+06				04+08								
11, 12	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA					R
21, 22	R	R	R	R	G	G	Y	R	R	R	R	R					R
41	RA	RA	RA	RA	RA	RA	RA	RA	FYA	FYA	YA	RA					R
42	R	R	R	R	R	R	R	R	G	G	Y	R					R
51, 52	GA	GA	YA	RA	FYA	FYA	YA	RA	RA	RA	RA	RA					R
61, 62	R	R	R	R	G	G	R	R	R	R	R	R					R
81	RA	RA	RA	RA	RA	RA	RA	RA	FYA	FYA	YA	RA					R
82	R	R	R	R	R	R	R	R	G	G	Y	R					R
23, 24	DW	DW	DW	DW	W	FW	DW	DW	DW	DW	DW	DW					-
44, 45	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW					-
63, 64	DW	DW	DW	DW	W	FW	DW	DW	DW	DW	DW	DW					-
84, 85	DW	DW	DW	DW	DW	DW	DW	DW	W	FW	DW	DW					-



DETECTOR SUMMARY

DETECTOR NUMBER	LOOP SIZE	PED PUSH BUTTON	DELAY TIME (SEC.)	PHASE CALLED	NO. OF CHANNELS	PRESENCE MODE	IMPULSE MODE	WIRED IN SERIES	COMMENTS
11	RADAR			1	1	X			
21	RADAR			2	1	X			
41	RADAR			4	1	X			
51	RADAR			5	1	X			
61	RADAR			6	1	X			
81	RADAR			8	1	X			
201, 202		X		2					
401, 402		X		4					
601, 602		X		2					
801, 802		X		4					

PAVEMENT MARKING LINE TYPES

See PM-110

DCY4: Double Centerline (Yellow) @ 2.00	SLW4: Solid Lane Line (White) @ 1.00	CLW6: Crosswalk Line (White) @ 3.00
ELW4: Edge Line Right (White) @ 1.00	SLW2: Stop Line (White) @ 6.00	NPY4: No Passing Zone Line (Yellow) @1.25
CBW6: Crosswalk Bar (White) @ 15.00	DLW4: Dotted Line (White) @ 0.33	BLW4: Broken Lane Line (White) @ 0.25
CHY8: Channelizing Line (Yellow) @ 2.00	ELY4: Edge Line Left (Yellow) @ 1.00	

Location																		
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			DCY4	CBW6	CHY8	SLW4	SLW2	DLW4	ELY4	ELW4	NPY4	BLW4	Grooves Cut	Remarks
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
E 2ND ST	29+42	32+18	NB/SB	Epoxy			X									2.76		2.76	
E 2ND ST	29+42	32+18	NB/SB	Epoxy	X											2.76		2.76	
E 2ND ST	32+18	33+49	NB/SB	Epoxy	X			1.31										1.31	
E 2ND ST	32+68	33+70	NB/SB	Epoxy			X				1.02							1.02	
E 2ND ST	33+49	33+49	NB/SB	Epoxy		X						0.14						0.14	
E 2ND ST	33+70	33+70	NB/SB	Epoxy			X					0.26						0.26	
E 2ND ST	33+80	34+08	NB/SB	Epoxy		X			0.63									0.63	
HWY 92	400+45	400+46	NB/SB	Epoxy		X			0.72									0.72	
HWY 92	400+54	400+55	NB/SB	Epoxy			X					0.31						0.31	
HWY 92	400+54	401+22	NB/SB	Epoxy		X		0.67										0.67	
E 2ND ST	35+03	35+03	NB/SB	Epoxy		X						0.28						0.28	
E 2ND ST	35+03	35+50	NB/SB	Epoxy	X						0.47							0.47	
E 2ND ST	35+03	37+00	NB/SB	Epoxy			X									1.97		1.97	
E 2ND ST	36+00	37+00	NB/SB	Epoxy	X											1.00		1.00	
E 2ND ST	37+66	40+55	NB/SB	Epoxy	X											2.89		2.89	
E 2ND ST	37+66	40+55	NB/SB	Epoxy			X									2.89		2.89	
E 2ND ST	41+28	49+56	NB/SB	Epoxy	X											8.28		8.28	
E 2ND ST	41+28	47+86	NB/SB	Epoxy			X									6.58		6.58	
E 2ND ST	48+36	49+56	NB/SB	Epoxy			X				1.20							1.20	
E 2ND ST	49+56	49+56	NB/SB	Epoxy		X						0.28						0.28	
E 2ND ST	49+66	49+66	NB/SB	Epoxy		X			0.40									0.40	
PARK AVE	450+37	450+42	NB/SB	Epoxy			X					0.13						0.13	
E 4TH ST W	0+46	0+54	NB/SB	Epoxy			X					0.14						0.14	
E 4TH ST W	0+58	0+66	NB/SB	Epoxy		X			0.25									0.25	
E 4TH ST E	0+42	0+42	NB/SB	Epoxy		X			0.20									0.20	
E 4TH ST E	0+51	0+51	NB/SB	Epoxy			X					0.11						0.11	
PARK AVE	50+94	50+99	NB/SB	Epoxy		X			0.40									0.40	
PARK AVE	51+06	51+06	NB/SB	Epoxy		X						0.28						0.28	
PARK AVE	51+05	51+75	NB/SB	Epoxy	X						0.70							0.70	
PARK AVE	51+06	52+26	NB/SB	Epoxy			X	1.02										1.02	
PARK AVE	52+25	53+80	NB/SB	Epoxy	X											1.55		1.55	
PARK AVE	52+26	53+80	NB/SB	Epoxy			X									1.54		1.54	
PARK AVE	53+80	54+98	NB/SB	Epoxy	X			1.18										1.18	
PARK AVE	54+30	54+98	NB/SB	Epoxy			X				0.68							0.68	
PARK AVE	54+98	54+98	NB/SB	Epoxy		X						0.30						0.30	
PARK AVE	55+07	55+07	NB/SB	Epoxy		X			0.40									0.40	
E 5TH ST	500+42	500+42	NB/SB	Epoxy			X					0.17						0.17	
E 5TH ST	500+51	500+51	NB/SB	Epoxy			X		0.30									0.30	
PARK AVE	55+70	55+70	NB/SB	Epoxy		X			0.40									0.40	
PARK AVE	55+79	55+79	NB/SB	Epoxy		X						0.30						0.30	
PARK AVE	55+79	56+30	NB/SB	Epoxy		X				1.70								1.70	
PARK AVE	56+47	56+77	NB/SB	Epoxy	X						0.30							0.30	
PARK AVE	56+57	57+27	NB/SB	Epoxy			X	0.70										0.70	
PARK AVE	57+27	69+41	NB/SB	Epoxy	X											12.14		12.14	
PARK AVE	57+27	69+41	NB/SB	Epoxy			X									12.14		12.14	
PARK AVE	70+06	70+37	NB/SB	Epoxy	X											0.31		0.31	
PARK AVE	70+06	70+37	NB/SB	Epoxy			X									0.31		0.31	
PARK AVE	70+37	71+28	NB/SB	Epoxy	X			0.37										0.37	
PARK AVE	70+87	71+28	NB/SB	Epoxy			X				0.41							0.41	
PARK AVE	71+28	71+28	NB/SB	Epoxy		X						0.36						0.36	
PARK AVE	71+37	71+38	NB/SB	Epoxy		X			0.50									0.50	
WASHINGTON ST	1+56	1+56	EB/WB	Epoxy			X					0.14						0.14	

Plot Date: 3/31/2020 9:04 AM
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PAVEMENT MARKING LINE TYPES

See PM-110

DCY4: Double Centerline (Yellow) @ 2.00	SLW4: Solid Lane Line (White) @ 1.00	CLW6: Crosswalk Line (White) @ 3.00
ELW4: Edge Line Right (White) @ 1.00	SLW2: Stop Line (White) @ 6.00	NPY4: No Passing Zone Line (Yellow) @1.25
CBW6: Crosswalk Bar (White) @ 15.00	DLW4: Dotted Line (White) @ 0.33	BLW4: Broken Lane Line (White) @ 0.25
CHY8: Channelizing Line (Yellow) @ 2.00	ELY4: Edge Line Left (Yellow) @ 1.00	

Location																		
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			DCY4	CBW6	CHY8	SLW4	SLW2	DLW4	ELY4	ELW4	NPY4	BLW4	Grooves Cut	Remarks
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
WASHINGTON ST	1+65	1+65	EB/WB	Epoxy		X			0.25									0.25	
WASHINGTON ST	2+41	2+42	EB/WB	Epoxy		X			0.45									0.45	
WASHINGTON ST	2+51	2+51	EB/WB	Epoxy			X					0.24						0.24	
WASHINGTON ST	2+51	4+01	EB/WB	Epoxy		X		1.50										1.50	
WASHINGTON ST	2+51	4+01	EB/WB	Epoxy							1.50							1.50	
PARK AVE	172+10	172+10	NB/SB	Epoxy		X			0.40									0.40	
PARK AVE	172+19	172+19	NB/SB	Epoxy		X						0.25						0.25	
PARK AVE	172+19	172+82	NB/SB	Epoxy	X						0.63							0.63	
PARK AVE	172+19	173+32	NB/SB	Epoxy			X	1.13										1.13	
PARK AVE	173+32	195+08	NB/SB	Epoxy	X											21.76		21.76	
PARK AVE	173+32	195+08	NB/SB	Epoxy			X									21.76		21.76	
PARK AVE	186+72	187+96	NB/SB	Epoxy			X				1.23							1.23	
PARK AVE	195+08	196+37	NB/SB	Epoxy	X			1.29										1.29	
PARK AVE	195+36	196+37	NB/SB	Epoxy			X				1.01							1.01	
PARK AVE	195+36	196+37	NB/SB	Epoxy			X				1.01							1.01	
PARK AVE	196+37	196+37	NB/SB	Epoxy		X						0.39						0.39	
PARK AVE	196+46	196+46	NB/SB	Epoxy		X			0.50									0.50	
CLAY ST	1+46	1+47	EB/WB	Epoxy		X			0.40									0.40	
CLAY ST	1+37	1+38	EB/WB	Epoxy			X					0.27						0.27	
CLAY ST	0+78	1+38	EB/WB	Epoxy			X				0.60							0.60	
COLORADO ST	2+42	2+44	EB/WB	Epoxy		X			0.50									0.50	
COLORADO ST	2+52	2+53	EB/WB	Epoxy			X					0.28						0.28	
COLORADO ST	2+52	3+31	EB/WB	Epoxy	X			0.78										0.78	
COLORADO ST	2+53	3+31	EB/WB	Epoxy			X				0.78							0.78	
PARK AVE	197+43	197+43	NB/SB	Epoxy		X			0.45									0.45	
PARK AVE	197+52	197+52	NB/SB	Epoxy		X						0.29						0.29	
PARK AVE	197+52	198+19	NB/SB	Epoxy	X						0.66							0.66	
PARK AVE	197+52	199+74	NB/SB	Epoxy			X	2.22										2.22	
PARK AVE	198+19	199+65	NB/SB	Epoxy	X								1.47					1.47	
PARK AVE	199+39	201+65	NB/SB	Epoxy			X						2.27					2.27	
PARK AVE	199+39	202+59	NB/SB	Epoxy			X								3.22			3.22	
PARK AVE	199+65	203+78	NB/SB	Epoxy	X												4.10	4.10	
PARK AVE	199+74	201+80	NB/SB	Epoxy		X								2.06				2.06	
PARK AVE	199+74	201+80	NB/SB	Epoxy			X							2.06				2.06	
PARK AVE	201+65	203+79	NB/SB	Epoxy			X										2.10	2.10	
PARK AVE	202+53	203+79	NB/SB	Epoxy			X				1.27							1.27	
PARK AVE	203+79	203+79	NB/SB	Epoxy			X					0.38						0.38	
				UNFACTORED TOTALS:				12.17	7.15	1.70	13.47	5.30	3.74	4.12	3.22	100.64	6.20	157.71	
				FACTORED TOTALS:				24.34	107.25	3.40	13.47	31.80	1.23	4.12	3.22	125.80	1.55	**316.18**	**TOTAL**

Plot Date: 3/31/2020 9:04 AM
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12-19-19

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Road Identification	Location											STOP	AHEAD	ONLY	BIKE	LANE	Groove Cuts	Remarks
	Station	Side	STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	RRCW	BLSW	STPW	AHDW	ONLW	BIKW	LANW	EACH	
E 2ND ST	31+01	C			1												1	
E 2ND ST	31+20	C			1												1	
E 2ND ST	32+42	L								1							1	
E 2ND ST	32+68	C			1												1	
E 2ND ST	33+12	C			1												1	
E 2ND ST	35+50	C			1												1	
E 2ND ST	36+43	C			1												1	
E 2ND ST	36+62	C			1												1	
E 2ND ST	38+31	C			1												1	
E 2ND ST	38+50	C			1												1	
E 2ND ST	39+69	C			1												1	
E 2ND ST	39+89	C			1												1	
E 2ND ST	41+94	C			1												1	
E 2ND ST	42+13	C			1												1	
E 2ND ST	44+58	C			1												1	
E 2ND ST	44+78	C			1												1	
E 2ND ST	47+01	C			1												1	
E 2ND ST	47+20	C			1												1	
E 2ND ST	48+36	C			1												1	
E 2ND ST	49+19	C			1												1	
PARK AVE	51+31	C			1												1	
PARK AVE	51+75	C			1												1	
PARK AVE	52+93	C			1												1	
PARK AVE	53+12	C			1												1	
PARK AVE	54+00	C			1												1	
PARK AVE	54+61	C			1												1	
PARK AVE	56+77	C			1												1	
PARK AVE	57+92	C			1												1	
PARK AVE	58+12	C			1												1	
PARK AVE	61+47	C			1												1	
PARK AVE	61+67	C			1												1	
PARK AVE	65+02	C			1												1	
PARK AVE	65+21	C			1												1	
PARK AVE	68+57	C			1												1	
PARK AVE	68+76	C			1												1	
PARK AVE	70+12	C			1												1	
PARK AVE	70+31	C			1												1	
PARK AVE	70+87	C			1												1	

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12-19-19

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Road Identification	Location											STOP	AHEAD	ONLY	BIKE	LANE	Groove Cuts	Remarks
	Station	Side	STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	RRCW	BLSW	STPW	AHDW	ONLW	BIKW	LANW	EACH	
PARK AVE	172+55	C			1												1	
PARK AVE	173+11	C			1												1	
PARK AVE	173+98	C			1												1	
PARK AVE	174+17	C			1												1	
PARK AVE	178+03	C			1												1	
PARK AVE	178+22	C			1												1	
PARK AVE	182+08	C			1												1	
PARK AVE	182+27	C			1												1	
PARK AVE	186+14	C			1												1	
PARK AVE	186+33	C			1												1	
PARK AVE	186+72	R		1													1	
PARK AVE	187+60	R		1													1	
PARK AVE	190+18	C			1												1	
PARK AVE	190+38	C			1												1	
PARK AVE	194+24	C			1												1	
PARK AVE	194+43	C			1												1	
PARK AVE	195+38	C			1												1	
PARK AVE	195+38	R		1													1	
PARK AVE	196+01	C			1												1	
PARK AVE	196+01	R		1													1	
PARK AVE	197+72	C			1												1	
PARK AVE	198+17	C			1												1	
PARK AVE	202+53	R		1													1	
PARK AVE	203+47	R		1													1	
WASHINGTON ST	2+84	C					1										1	
WASHINGTON ST	2+84	R		1													1	
WASHINGTON ST	4+01	C					1										1	
WASHINGTON ST	4+01	R		1													1	
COLORADO ST	1+16	C			1												1	
COLORADO ST	2+78	C			1												1	
		TOTAL:	**0**	**8**	**57**	**0**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**68**	

NOTE: PAVEMENT MARKINGS SHALL BE HIGH BUILD OR THERMOPLASTIC

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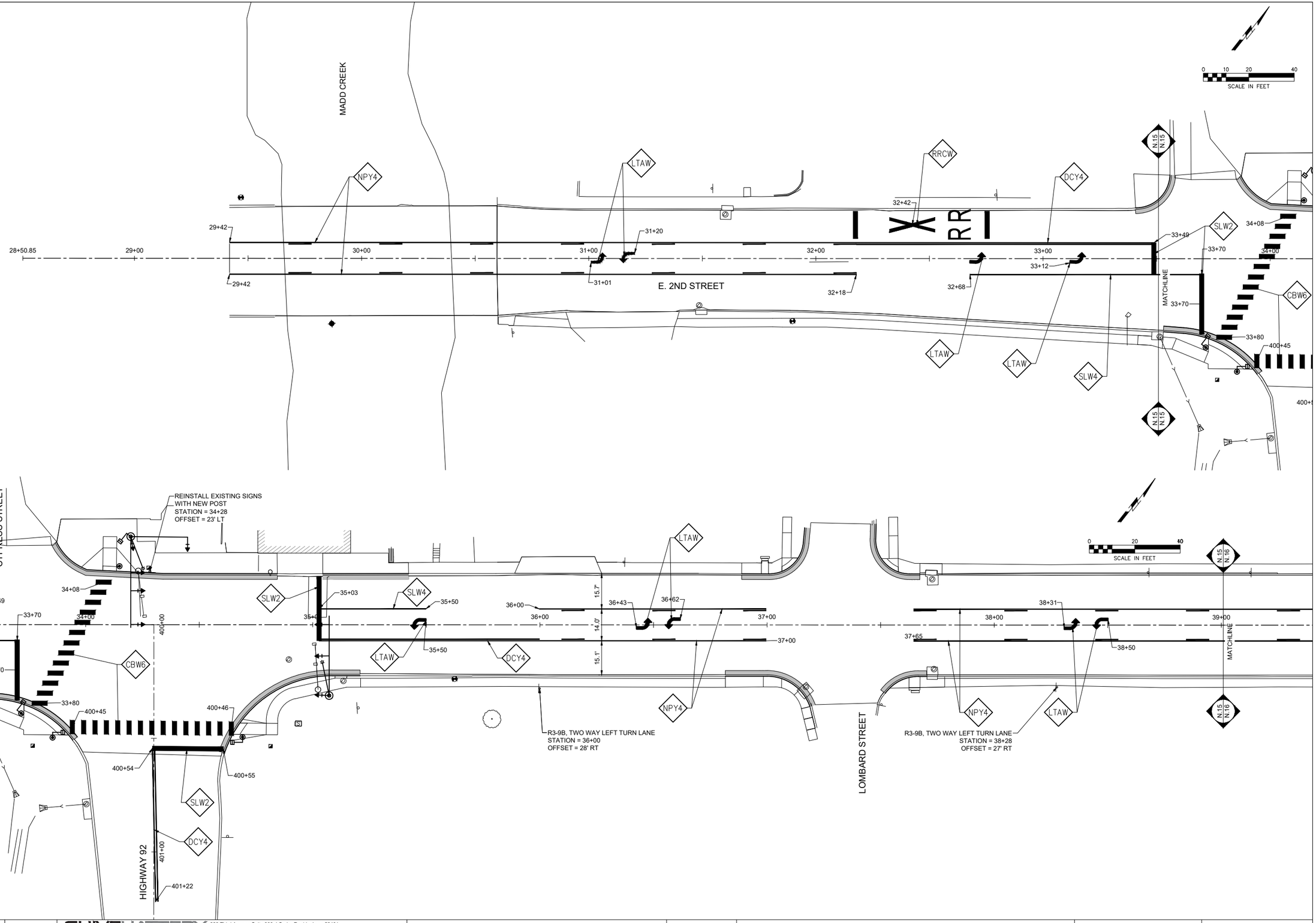
MATERIALS FOR SIGNS

ROAD ID	POST NUMBER	DIR OF TRAVEL	SIGN LOCATION		POST LENGTH	INSTALLATION HEIGHT TO BOTTOM OF SIGN (FT)	SIGN TYPE	SIGN SIZE		REMARKS
			STATION	OFFSET	FT			DIMENSIONS	AREA (SF)	
E 2ND ST	1	W	34+28	23.0 L	12	7	Existing			W 92, Bus 61, N 38, Hosp., Byways, Reinstall Existing Signs on New Posts
E 2ND ST	2	N	36+00	28.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
E 2ND ST	3	N	38+28	27.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
E 2ND ST	4	S	40+36	28.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
E 2ND ST	5	E	40+73	43.0 L	12	7	R1-1	36" X 36"	9	STOP SIGN
E 2ND ST	6	N	41+14	31.0 R	12	7	D3-1 (2)	12" x 48", 12" x 42"	7.5	PARK AVE, BROOK ST
E 2ND ST	7	N	41+85	27.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
E 2ND ST	8	N	43+26	28.0 R	12	7	EXISTING			STOP AHEAD, Reinstall Existing Signs on New Posts
E 2ND ST	9	S	43+38	29.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
E 2ND ST	10	E	43+89	43.0 L	12	7	R1-1	36" X 36"	9	STOP SIGN
E 2ND ST	11	N	49+60	30.0 R	12	7	R1-1	36" X 36"	9	STOP SIGN
E 2ND ST	12	N	49+76	41.0 R	12	7	D3-1 (2)	12" x 42", 12" x 48"	7.5	E 2ND ST, PARK AVE
PARK AVE	13	W	50+15	52.0 R	12	7	R1-1	36" X 36"	9	STOP SIGN
PARK AVE	14	S	50+54	46.0 L	12	7	D3-1 (2)	12" x 48", 12" x 42"	7.5	PARK AVE, E 4TH ST
PARK AVE	15	W	51+00	46.0 R	12	7	R1-1	36" X 36"	9	STOP SIGN
PARK AVE	16	S	51+03	32.0 L	12	7	R1-1	36" X 36"	9	STOP SIGN
PARK AVE	17	N	52+27	28.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	18	N	53+45	34.0 L	12	7	D3-1 (2)	12" x 48", 12" x 42"	7.5	PARK AVE, HOLLY ST
PARK AVE	19	E	55+18	50.0 L	12	7	R5-2S	24" X 24"	4	NO TRUCKS
PARK AVE	20	N	56+24	33.0 R	12	7	D3-1 (2)	12" x 48", 12" x 48"	8	PARK AVE, LAUREL ST
PARK AVE	21	N	57+28	29.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	22	S	58+47	34.0 L	12	7	D3-1 (2)	12" x 48", 12" x 48"	8	PARK AVE, WILLOW ST
PARK AVE	23	E	58+47	36.0 L	12	7	R1-1	36" X 36"	9	STOP SIGN
PARK AVE	24	N	59+43	33.0 R	12	7	D3-1 (2)	12" x 48", 12" x 54"	8.5	PARK AVE, CANON AVE
PARK AVE	25	N	60+04	31.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	26	N	60+04	31.0 R	12	7	R7-1	12" x 18"	1.5	NO PARKING ANY TIME
PARK AVE	27	S	61+13	29.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	28	N	62+64	33.0 R	12	7	D3-1 (2)	12" x 48", 12" x 54"	8.5	PARK AVE, MAGNOLIA ST
PARK AVE	29	N	65+96	35.0 R	12	7	D3-1 (2)	12" x 48", 12" x 54"	8.5	PARK AVE, SHERIDAN ST
PARK AVE	30	S	66+49	39.0 L	12	7	D3-1(2),W14-1	12" x 48", 12" x 54",30" X 30"	14.75	PARK AVE, HALSTEAD ST, DEAD END
PARK AVE	31	E	66+49	41.0 L	12	7	R1-1	36" X 36"	9	STOP SIGN
PARK AVE	32	N	67+53	34.0 R	12	7	D3-1 (2)	12" x 48", 12" x 54"	8.5	PARK AVE, SHERMAN ST
PARK AVE	33	N	68+27	24.0' R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	34	S	69+20	26.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	35	S	171+53	40.0 L	12	7	EXISTING			22, BUS 61, 38/92, Reinstall Existing Signs on New Posts
PARK AVE	36	N	173+91	23.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	37	S	178+37	22.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	38	N	178+42	23.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	39	E	178+76	36.0 L	12	7	R1-1	36" X 36"	9	STOP SIGN
PARK AVE	40	S	181+44	23.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	41	N	184+47	23.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	42	S	189+02	23.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	43	N	190+80	24.0 R	12	7	R3-9B	24" X 36"	6	TWLTL
PARK AVE	44	S	195+08	24.0 L	12	7	R3-9B	24" X 36"	6	TWLTL
Total Posts	**44**	**Total Post Length (FT)**			**492**		**Total Sign (SF)**		**295.25**	


MADD CREEK
E. 2ND STREET
MATCHLINE
CYPRESS STREET
HIGHWAY 92
LOMBARD STREET
REINSTALL EXISTING SIGNS
WITH NEW POST
STATION = 34+28
OFFSET = 23' LT
R3-9B, TWO WAY LEFT TURN LANE
STATION = 36+00
OFFSET = 28' RT
R3-9B, TWO WAY LEFT TURN LANE
STATION = 38+28
OFFSET = 27' RT
SCALE IN FEET
NPY4
LTAW
RRCW
DCY4
SLW2
SLW4
CBW6
N.15
N.16
28+50.85
29+00
29+42
30+00
31+00
31+01
31+20
32+00
32+18
32+42
32+68
33+00
33+12
33+49
33+70
33+80
34+00
34+08
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401+22
35+03
35+50
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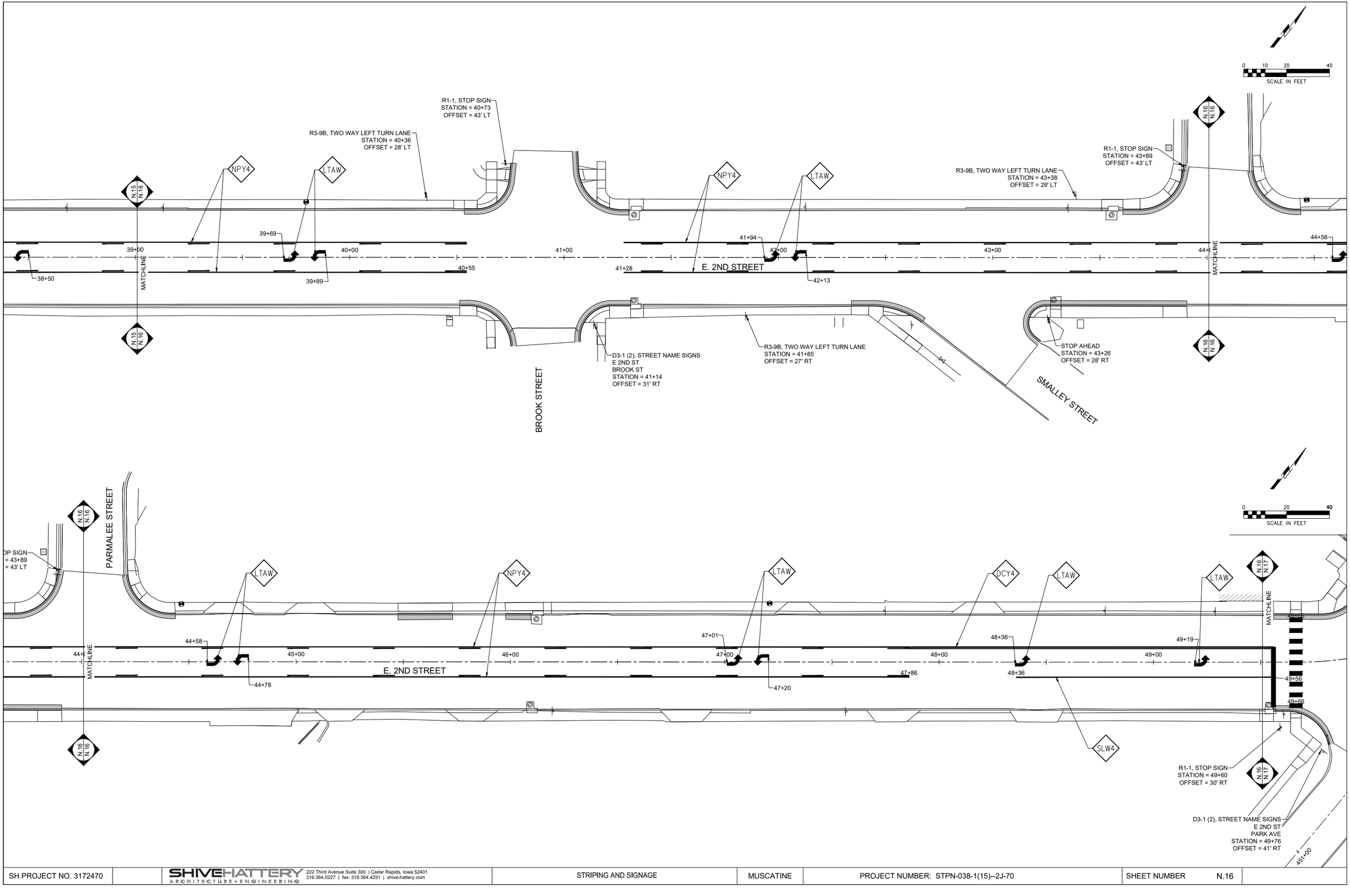
15.7'
14.0'
15.1'



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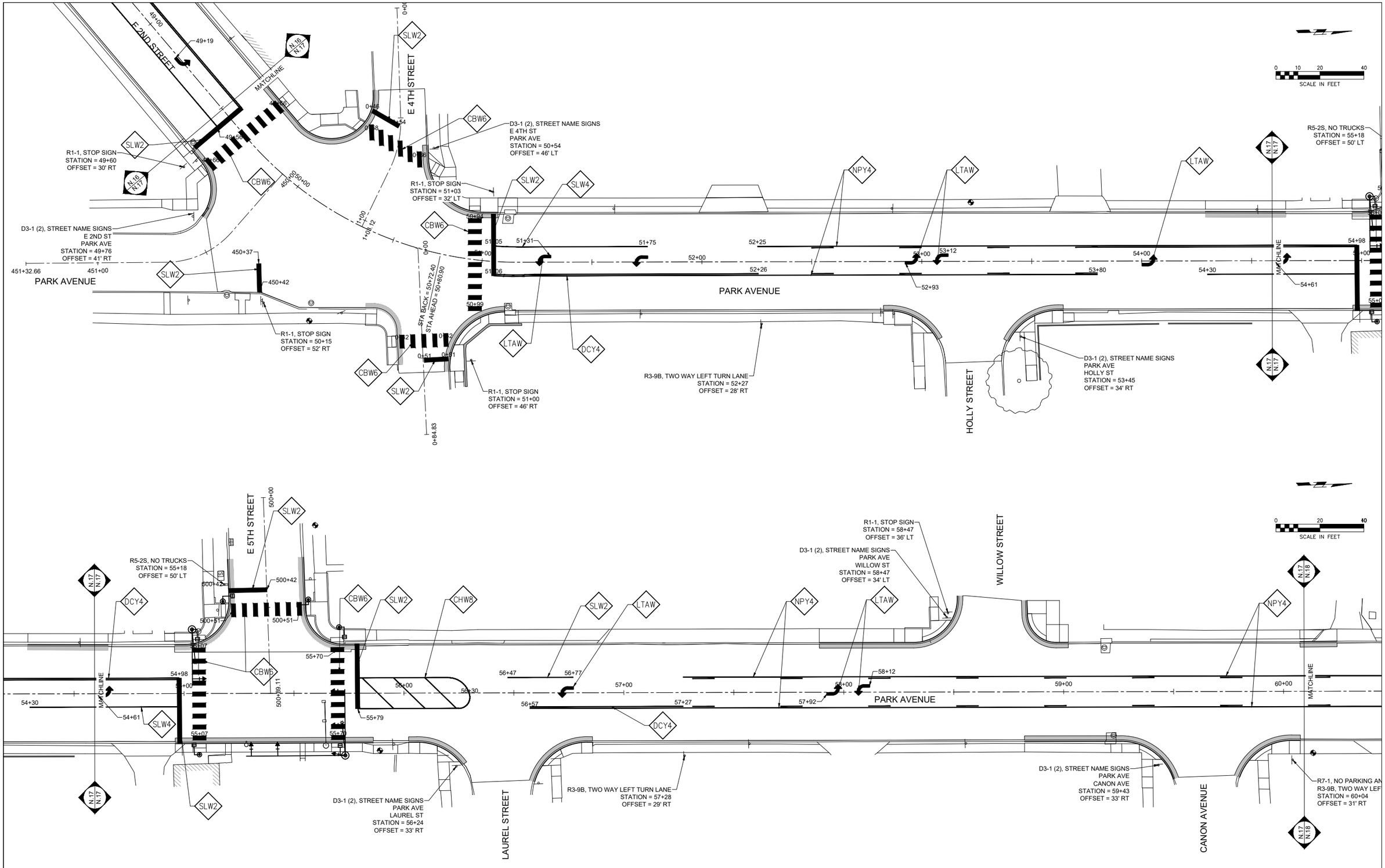
SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	STRIPING AND SIGNAGE	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER N.16



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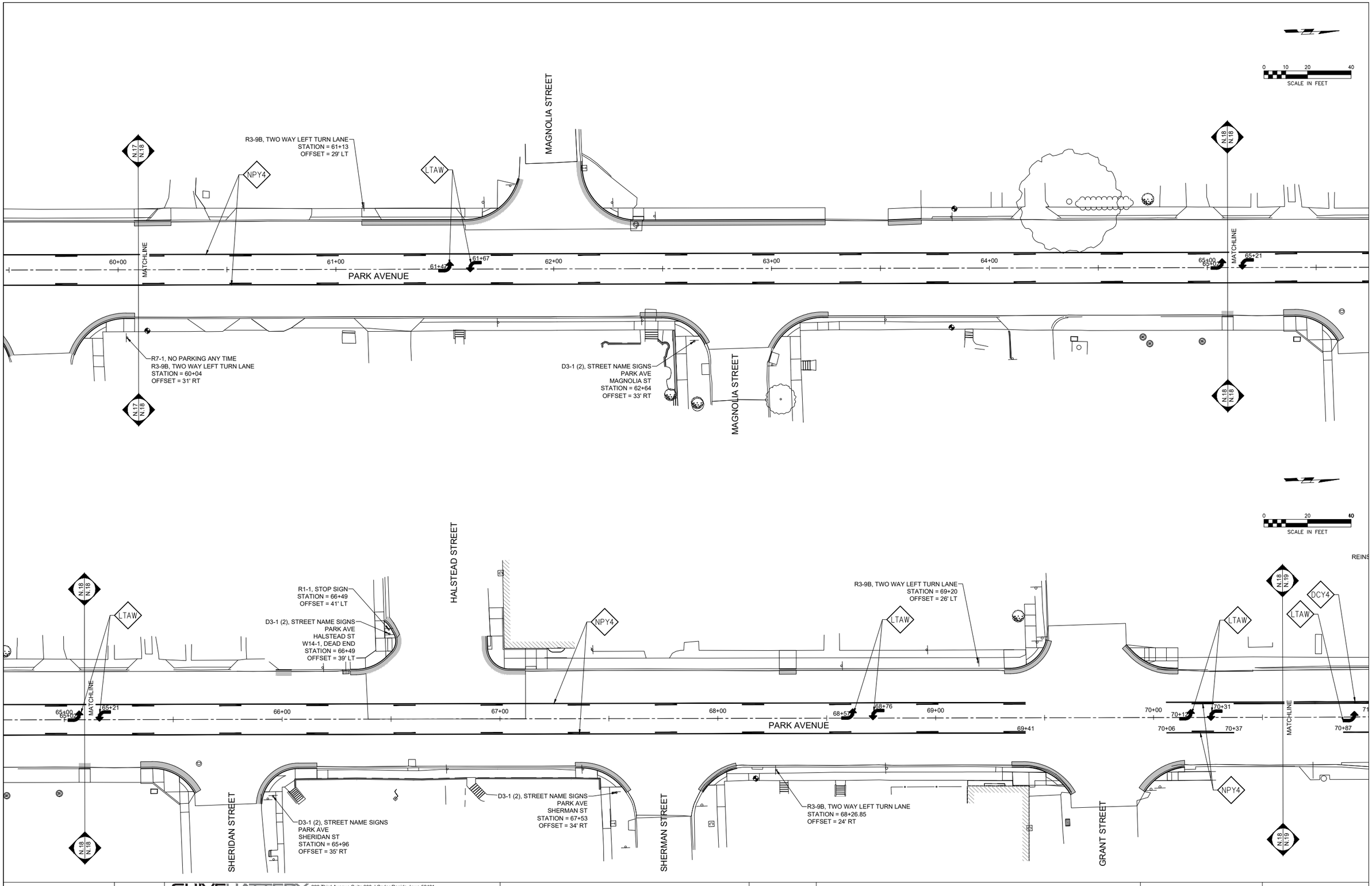

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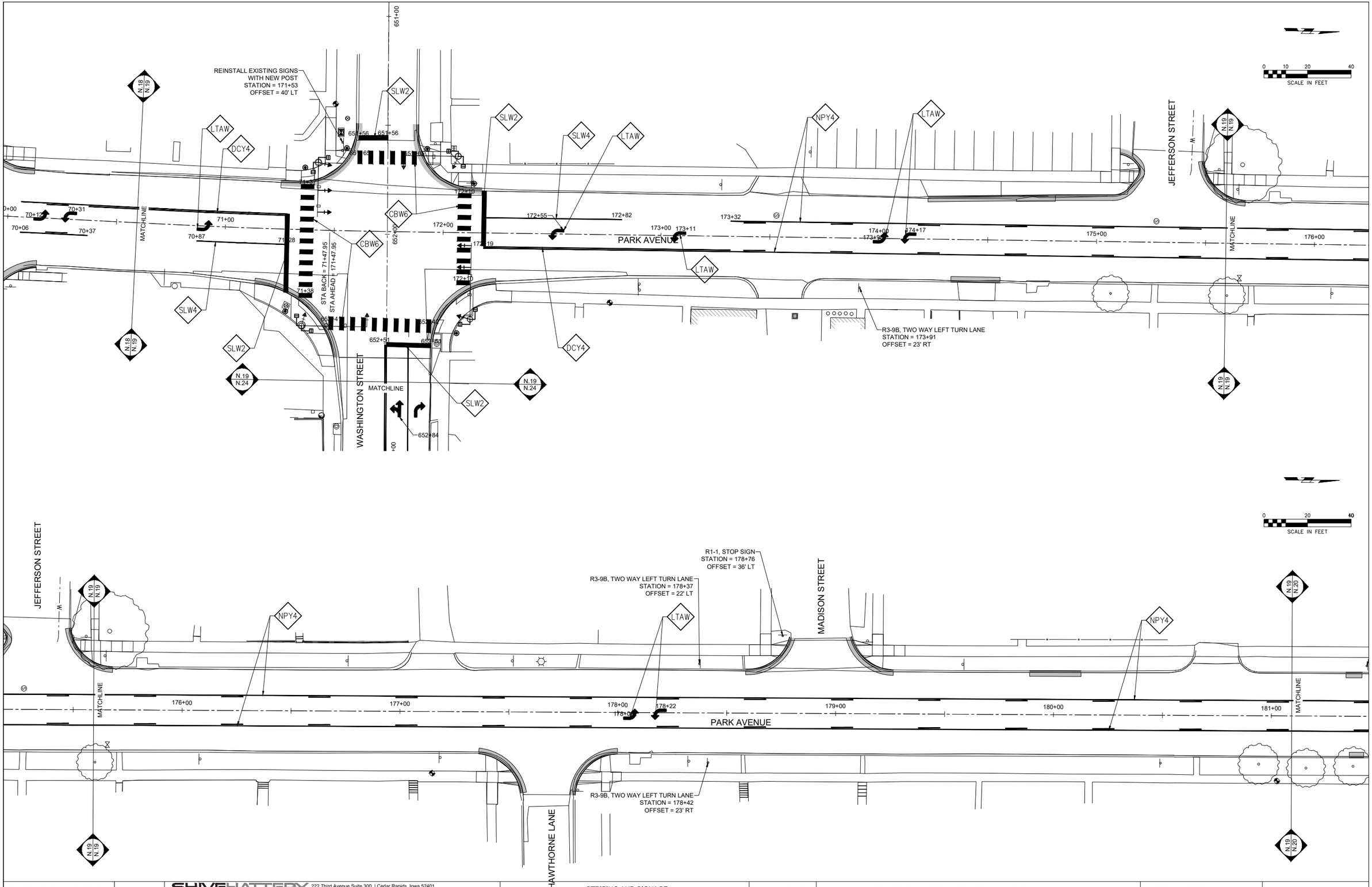

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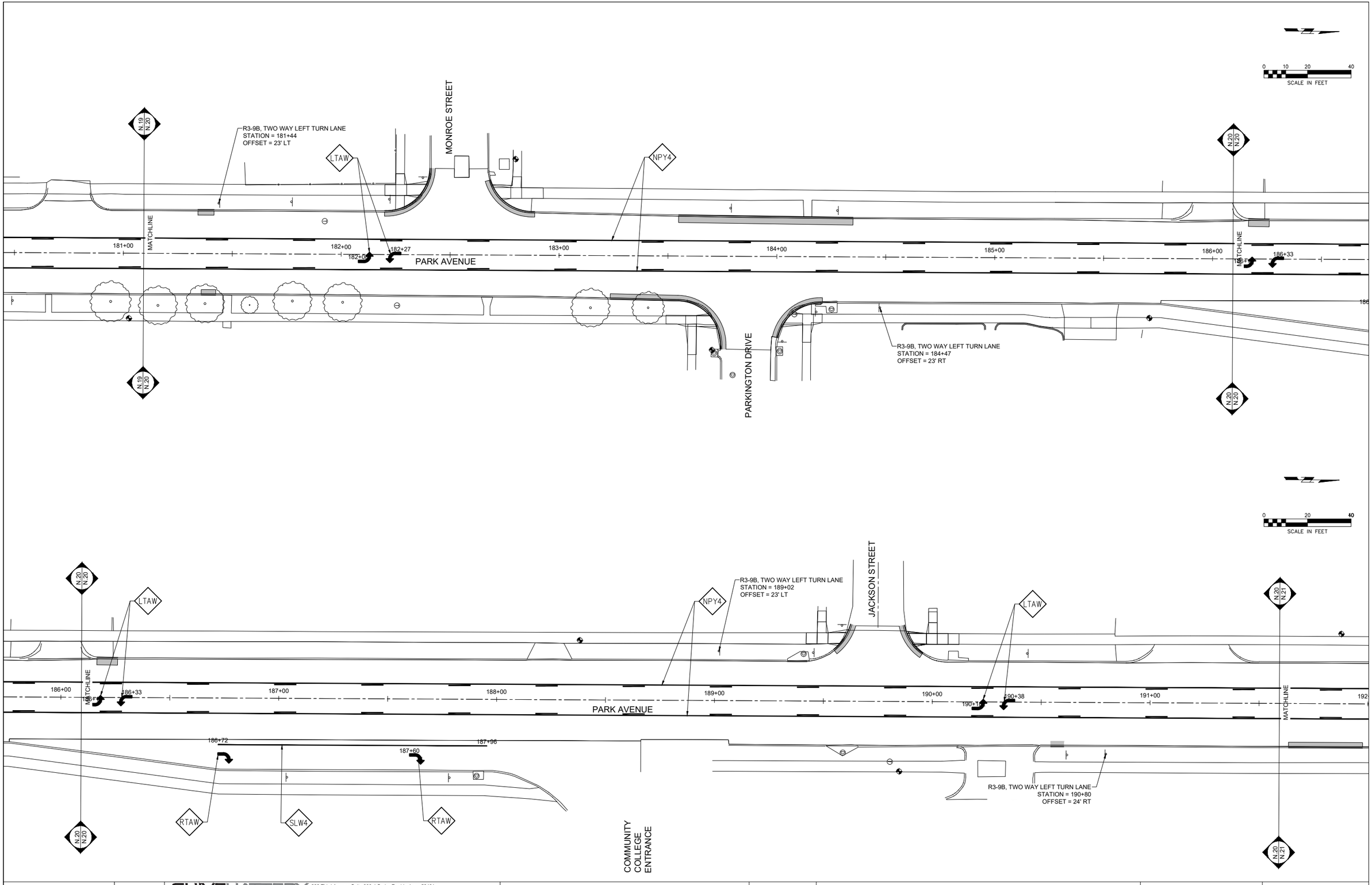

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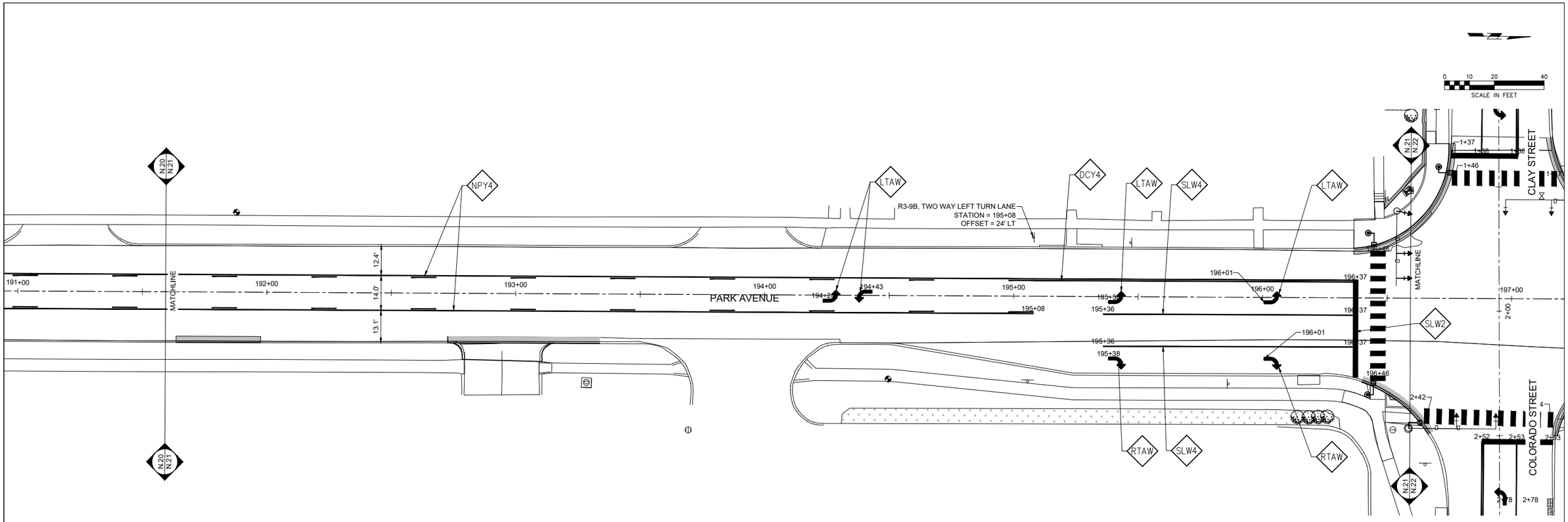

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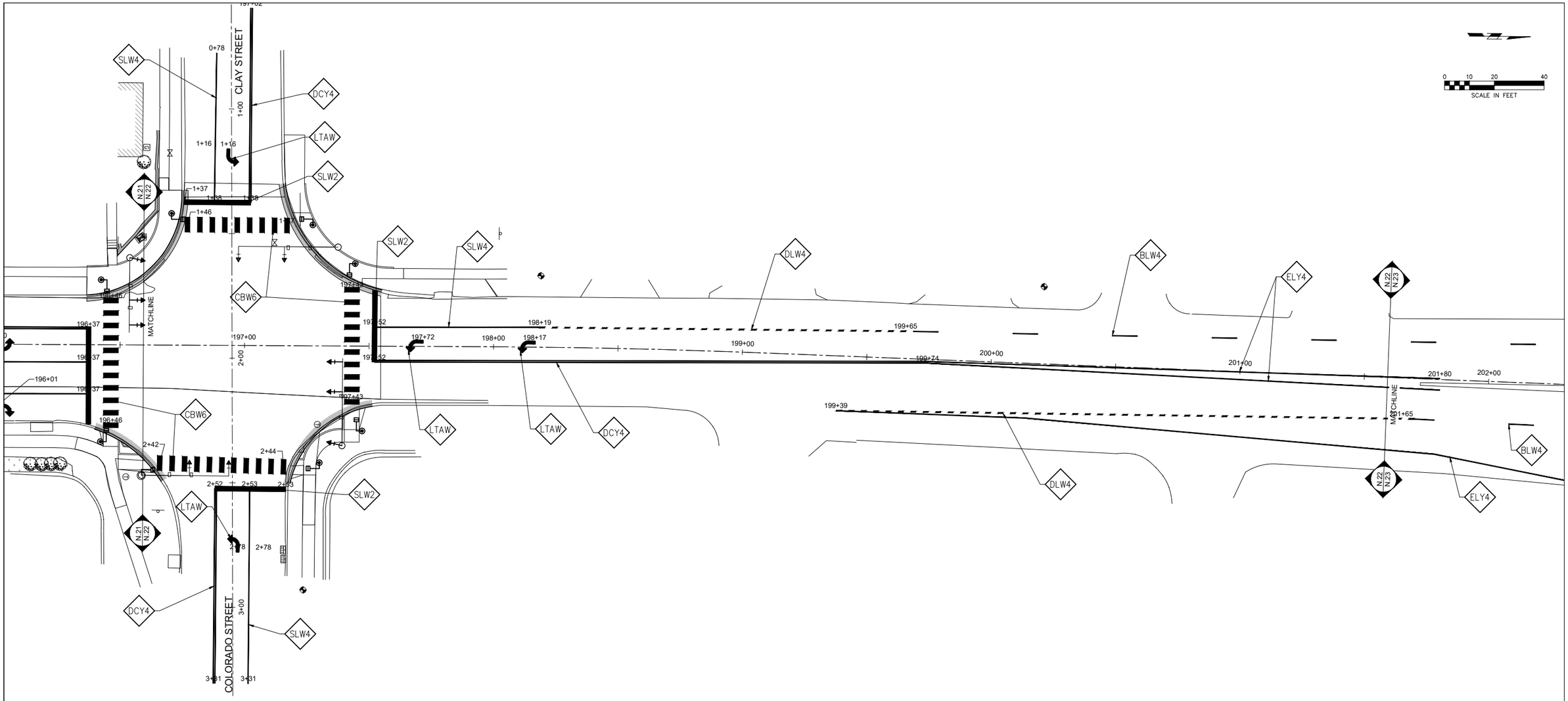

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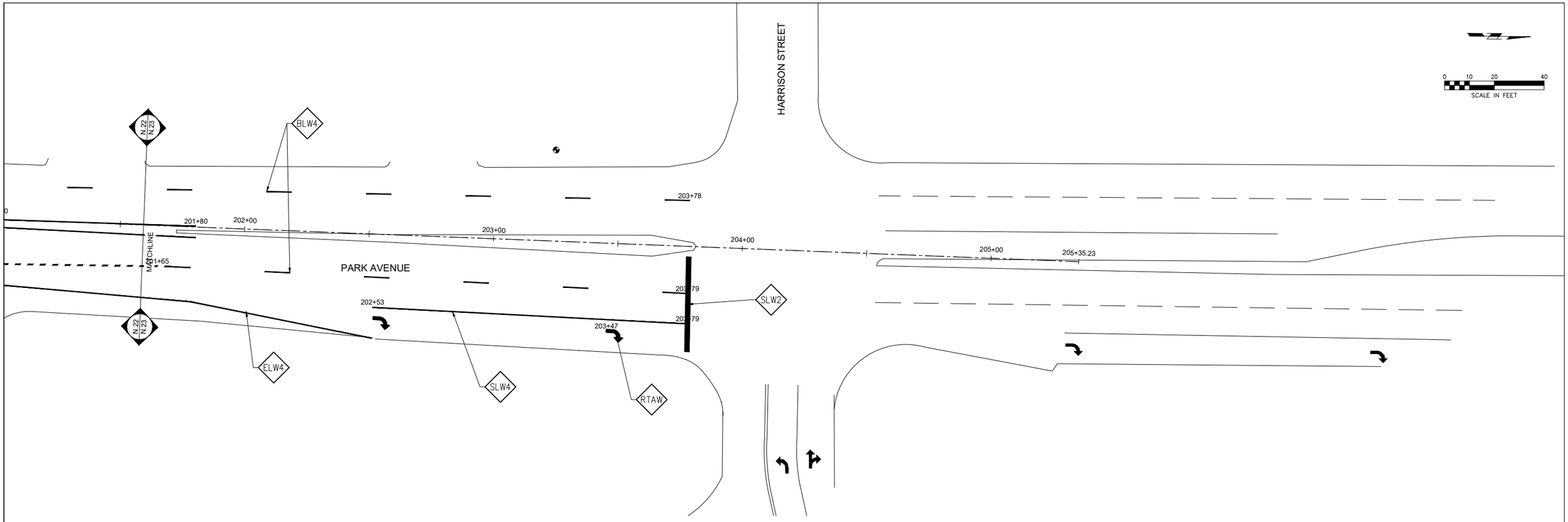

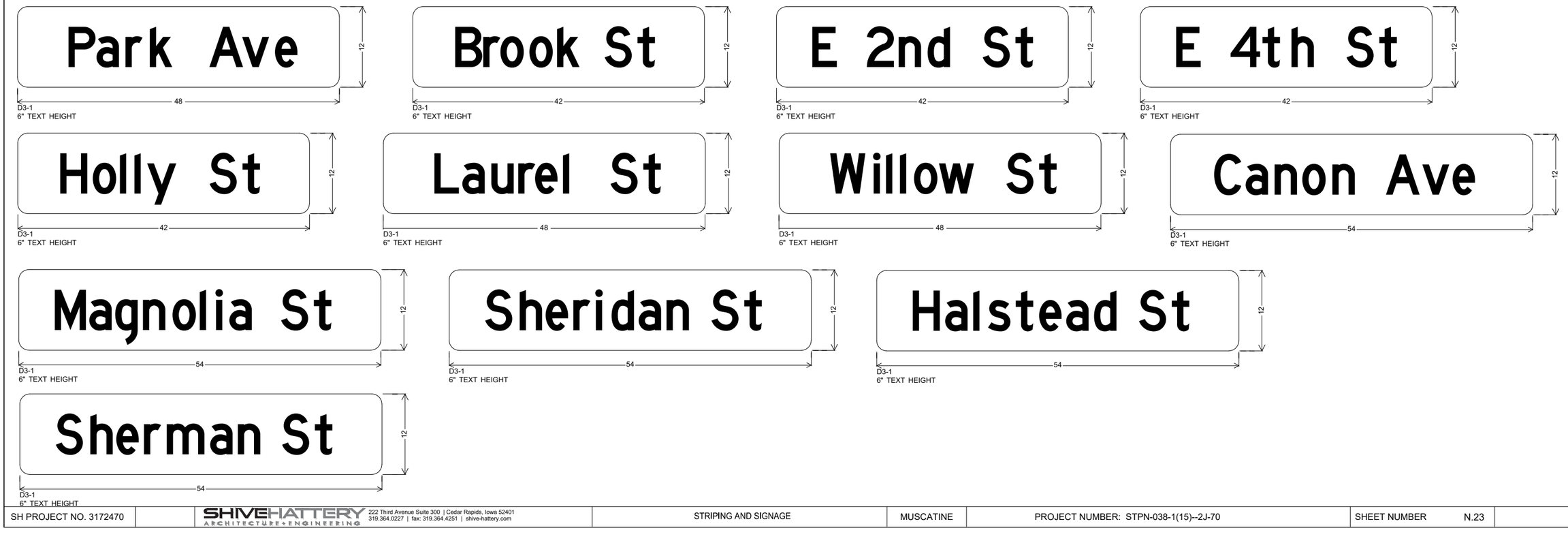

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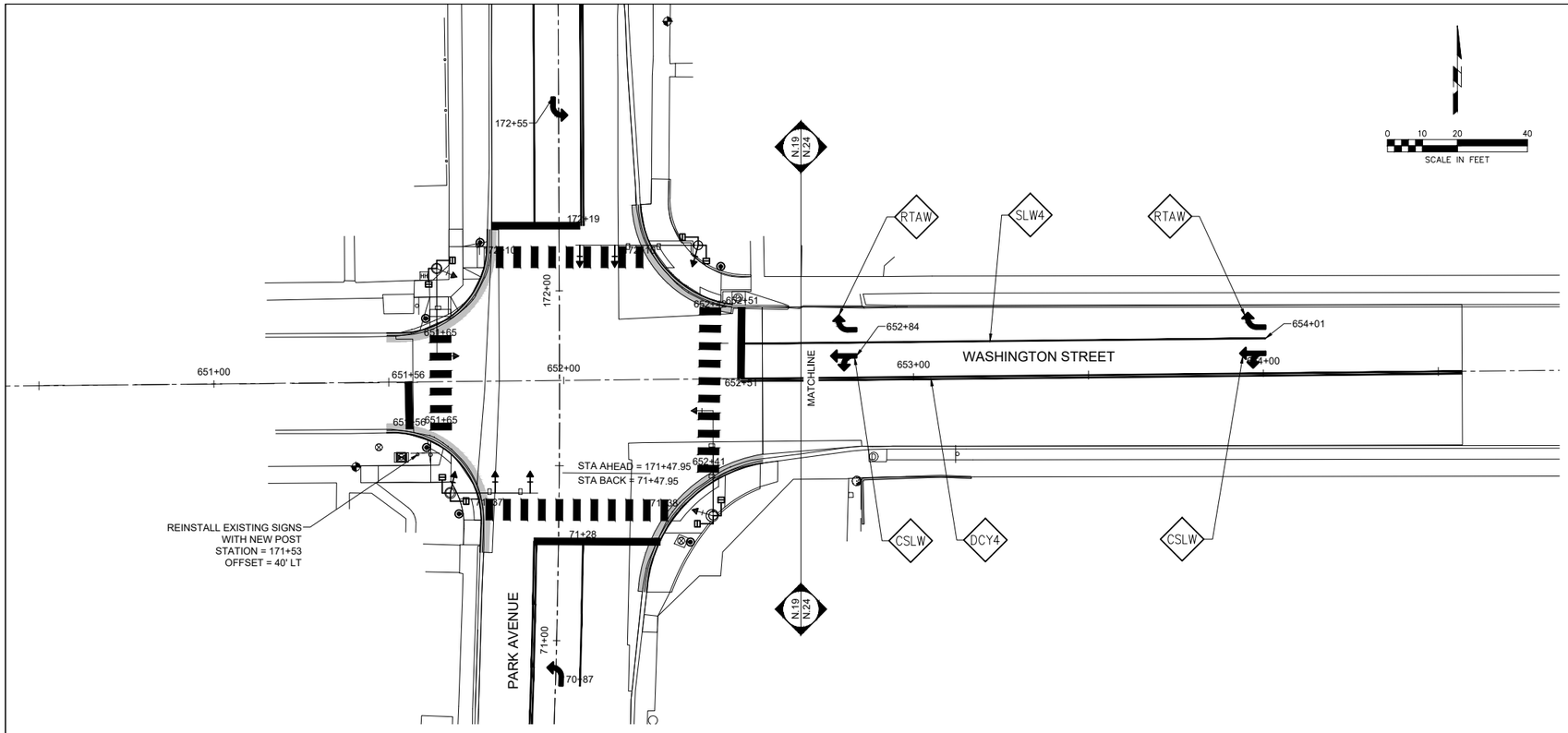

0 10 20 40
SCALE IN FEET

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LEGEND

REMOVAL OF SIDEWALK

PAVEMENT SCARIFICATION

REMOVAL OF PCC PAVEMENT

REMOVAL OF CURB AND GUTTER

REMOVAL OF PAVED DRIVEWAY

0 10 20 40
SCALE IN FEET

MAD CREEK

E. 2ND STREET

28+50.85 29+00 30+00 31+00 32+00 33+00 34+00

MATCHLINE

REMOVE INTAKE TOP

PROTECT MANHOLE

PROTECT VALVE

REMOVE EXISTING PAVEMENT MARKINGS ON BRIDGE

REMOVE INTAKE TOP

ADJUST VALVE TO NEW SURFACE ELEVATION

RELOCATE FIRE HYDRANT BY OTHERS

REMOVE INTAKE TOP

R.01 R.01

CYPRESS STREET

REMOVE INTAKE TOP

PROTECT RETAINING WALL

PROTECT STAIRS

REMOVE INTAKE TOP

PROTECT VALVE

34+00 35+00 36+00 37+00 38+00 39+00

MATCHLINE

E. 2ND STREET

PROTECT MANHOLE

PROTECT MANHOLE

REMOVE INTAKE TOP

REMOVE INTAKE TOP

REMOVE INTAKE TOP

PROTECT POWER POLE

PROTECT VALVE

LOMBARD STREET

R.01 R.02

PROTECT STORM INTAKE

HIGHWAY 92

NOTE:
MILL 2" HEADER IN ALL SIDE STREETS TO LINE SHOWN ON PLANS

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LEGEND

REMOVAL OF SIDEWALK

REMOVAL OF CURB AND GUTTER

PAVEMENT SCARIFICATION

REMOVAL OF PAVED DRIVEWAY

REMOVAL OF PCC PAVEMENT

0 10 20 40
SCALE IN FEET

REMOVE STOP SIGN

RELOCATE FIRE HYDRANT BY OTHERS

REMOVE INTAKE TOP

PROTECT VALVE

PROTECT VALVE

REMOVE INTAKE TOP

PROTECT MANHOLE

PROTECT STAIRS

REMOVE INTAKE TOP

REMOVE STREET SIGN

REMOVE INTAKE TOP AND THROAT

E. 2ND STREET

BROOK STREET

SMALLEY STREET

MATCHLINE

MATCHLINE

PARMALEE STREET

REMOVE INTAKE TOP

REMOVE INTAKE TOP

REMOVE STREET SIGN

REMOVE STOP SIGN

E. 2ND STREET

NOTE:
MILL 2" HEADER IN ALL SIDE STREETS TO LINE SHOWN ON PLANS

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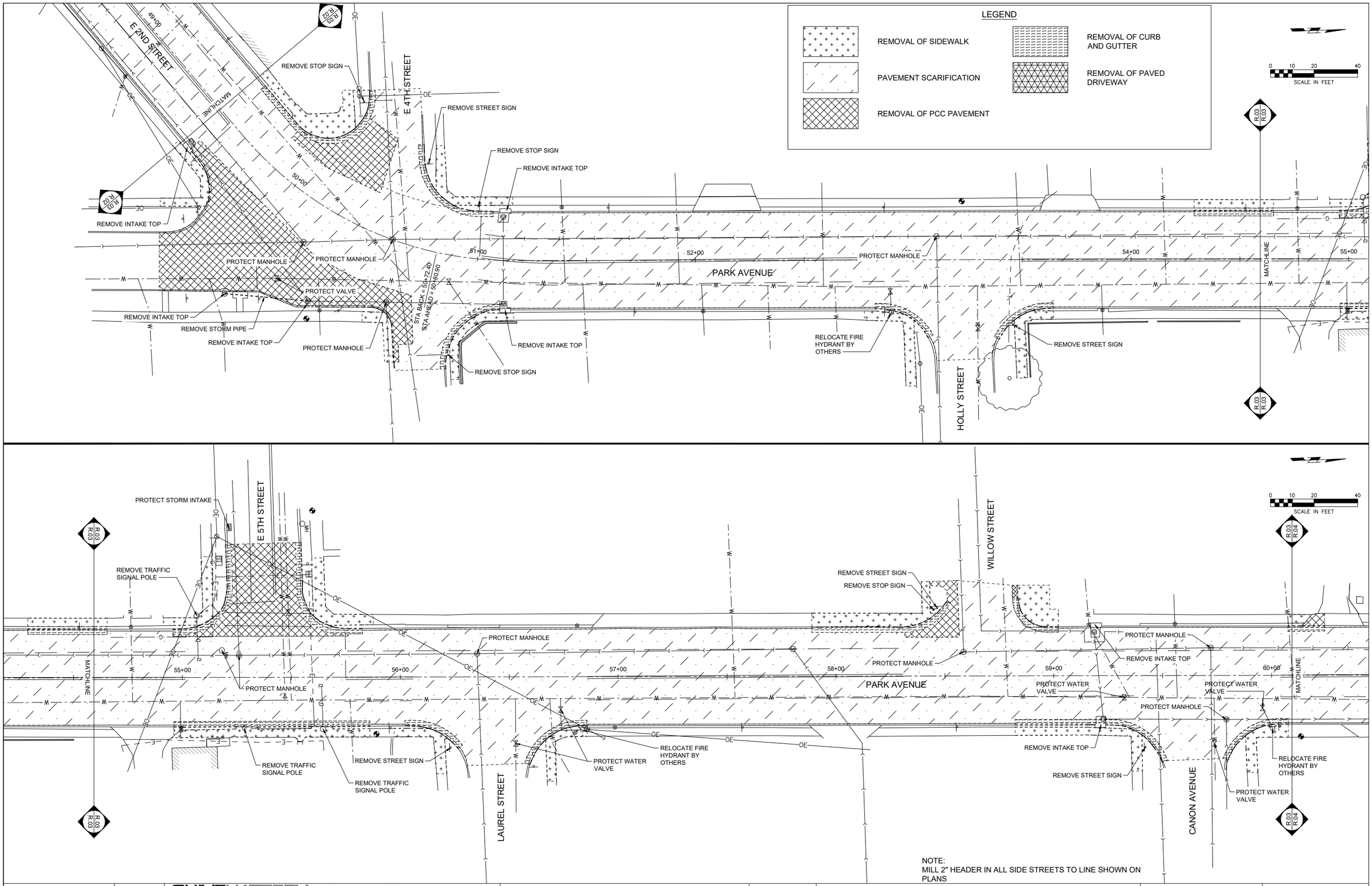

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LEGEND

REMOVAL OF SIDEWALK

REMOVAL OF CURB AND GUTTER

PAVEMENT SCARIFICATION

REMOVAL OF PAVED DRIVEWAY

REMOVAL OF PCC PAVEMENT

0 10 20 40
SCALE IN FEET

MAGNOLIA STREET

PARK AVENUE

MATCHLINE

PROTECT MANHOLE

REMOVE INTAKE TOP

REMOVE STREET SIGN

PROTECT RETAINING WALL

PROTECT STAIRS

PROTECT STORM INTAKE

NOTE:
MILL 2" HEADER IN ALL SIDE STREETS TO LINE SHOWN ON PLANS

HALSTEAD STREET

REMOVE STOP SIGN

REMOVE STREET SIGN, DEAD END SIGN

PROTECT VALVE

PROTECT POWER POLE

SHERIDAN STREET

SHERMAN STREET

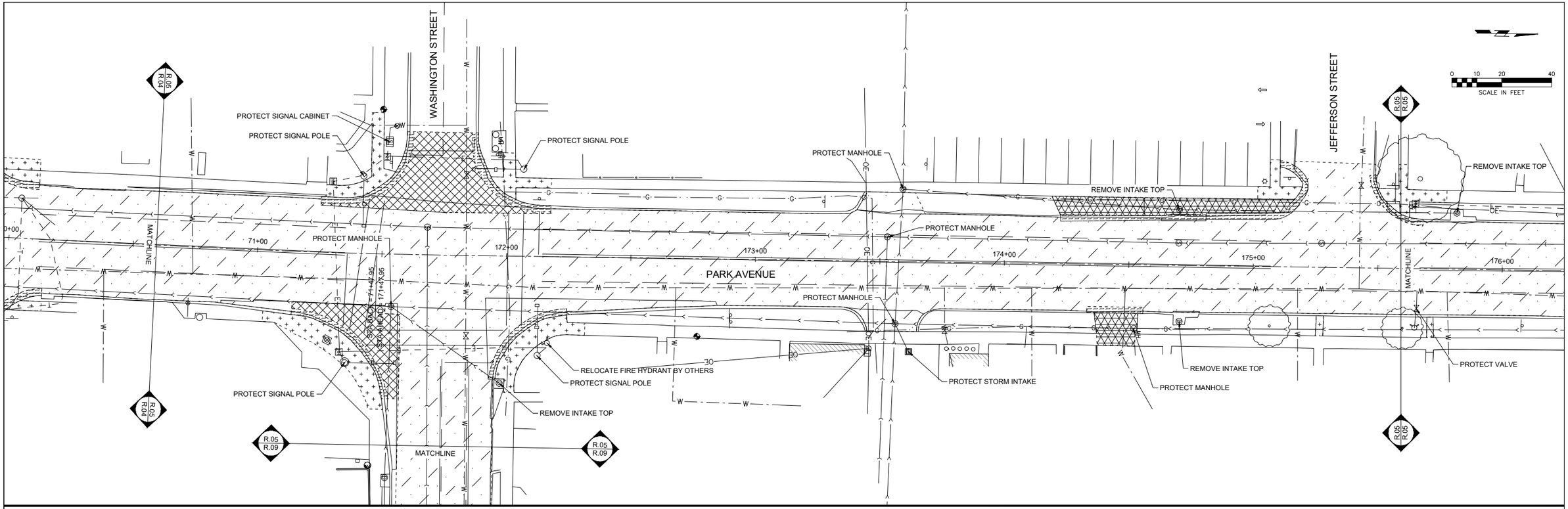
GRANT STREET

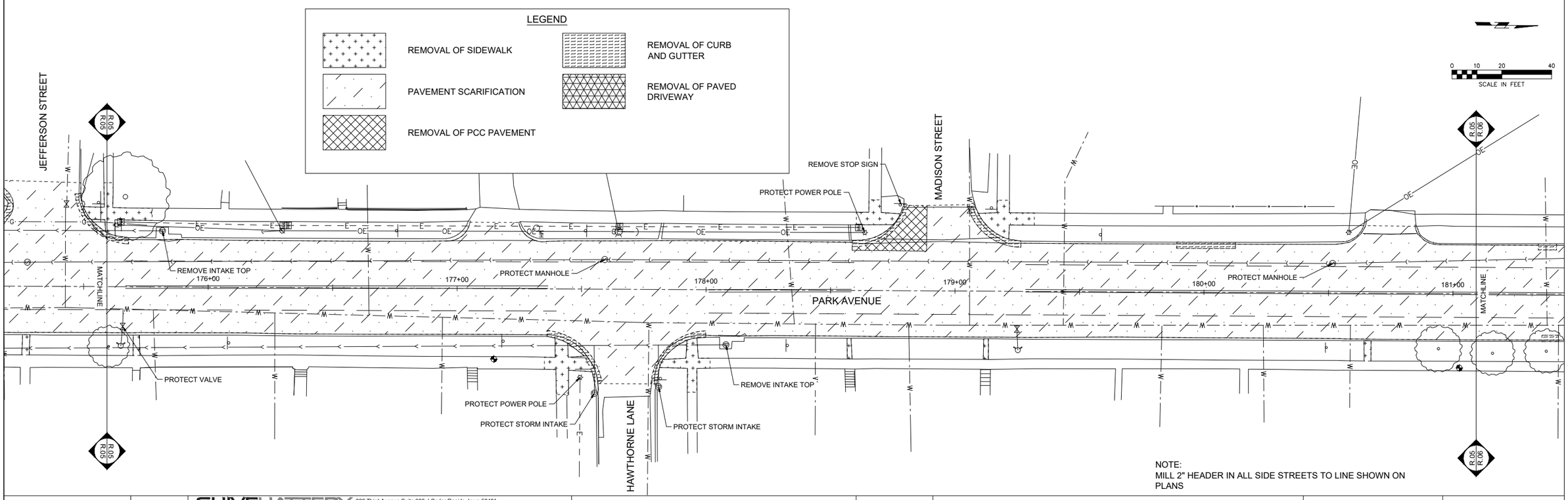
RELOCATE FIRE HYDRANT BY OTHERS

0 10 20 40
SCALE IN FEET

SHIVEHATTERY ARCHITECTURE + ENGINEERING
222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401
319.364.0227 | fax: 319.364.4251 | shive-hattery.com

SH PROJECT NO. 3172470	REMOVAL PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER R.04





NOTE:
MILL 2" HEADER IN ALL SIDE STREETS TO LINE SHOWN ON PLANS

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Plot Date: 3/31/2020 9:16 AM
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LEGEND

REMOVAL OF SIDEWALK

REMOVAL OF CURB AND GUTTER

PAVEMENT SCARIFICATION

REMOVAL OF PAVED DRIVEWAY

REMOVAL OF PCC PAVEMENT

0 10 20 40
SCALE IN FEET

MONROE STREET

PARK AVENUE

PARKINGTON DRIVE

JACKSON STREET

MATCHLINE

PROTECT MANHOLE

PROTECT STORM INTAKE

REMOVE INTAKE TOP

PROTECT FIRE HYDRANT

MILL TO EXISTING PCC PAVEMENT EDGE

COMMUNITY COLLEGE ENTRANCE

NOTE:
MILL 2" HEADER IN ALL SIDE STREETS TO LINE SHOWN ON PLANS

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LEGEND

REMOVAL OF SIDEWALK

REMOVAL OF CURB AND GUTTER

PAVEMENT SCARIFICATION

REMOVAL OF PAVED DRIVEWAY

REMOVAL OF PCC PAVEMENT

0 10 20 40
SCALE IN FEET

PARK AVENUE

CLAY STREET

COLORADO STREET

MATCHLINE

191+00 192+00 193+00 194+00 195+00 196+00 197+00

STATION = 192+73.79
OFFSET = 19.94 RT

PROTECT POWER POLE

PROTECT MANHOLE

PROTECT MANHOLE

PROTECT STORM INTAKE

REMOVE INTAKE TOP

MILL TO EXISTING PCC PAVEMENT EDGE

R.07 R.06

R.07 R.07

R.07 R.07

PROTECT RETAINING WALL

PROTECT STAIRS

PROTECT EXISTING SIGNAL POLE

PROTECT EXISTING SIGNAL POLE

PROTECT MANHOLE

PROTECT MANHOLE

PROTECT EXISTING SIGNAL POLE

PROTECT EXISTING SIGNAL POLE

REMOVE REST OF STOP BAR NOT REMOVED IN MILLING

REMOVE REST OF CROSS WALK NOT REMOVED IN MILLING

REMOVE CROSS WALK MARKINGS

REMOVE STOP BAR

REMOVE EXISTING PAVEMENT MARKINGS

197+00 198+00 199+00 200+00 201+00 202+00

R.07 R.07

R.07 R.08

R.07 R.08

NOTE:
MILL 2" HEADER IN ALL SIDE STREETS TO LINE SHOWN ON PLANS

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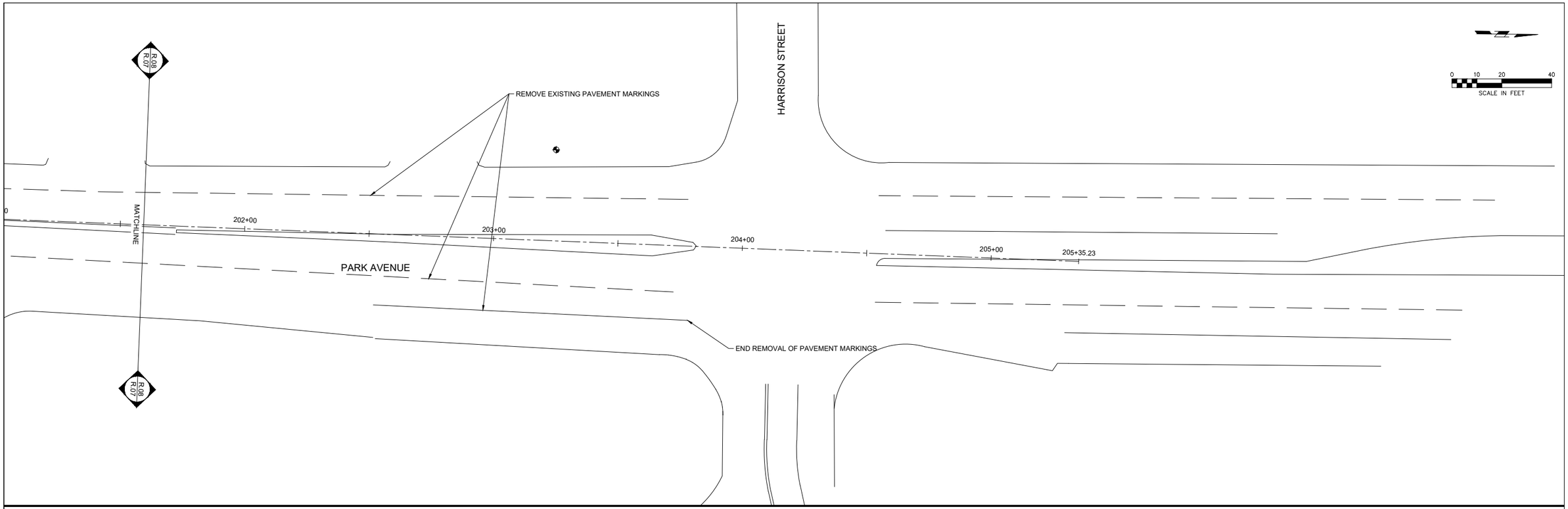

LEGEND

- REMOVAL OF SIDEWALK
- REMOVAL OF CURB AND GUTTER
- PAVEMENT SCARIFICATION
- REMOVAL OF PAVED DRIVEWAY
- REMOVAL OF PCC PAVEMENT

Plot Date: 3/31/2020 9:17 AM
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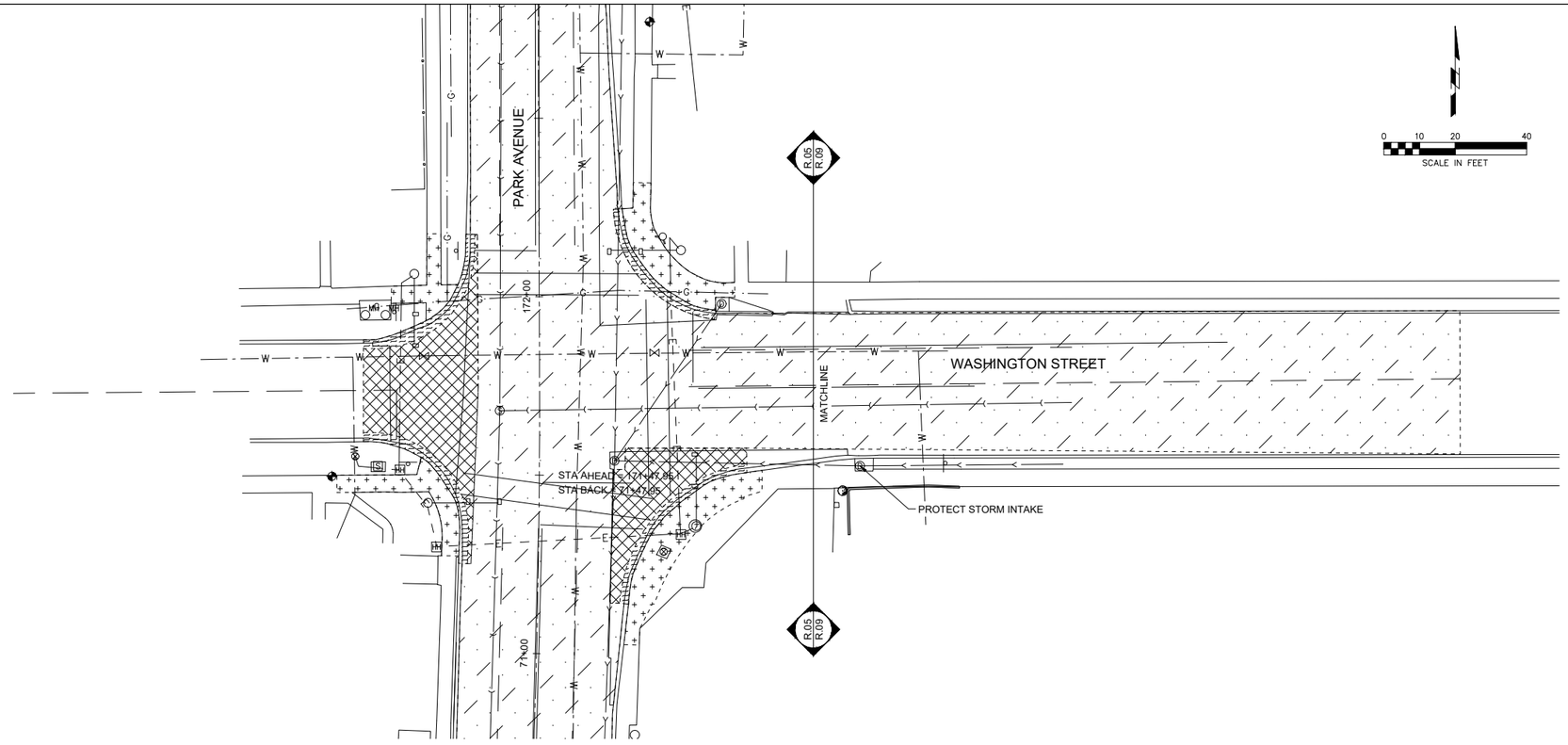

LEGEND

- REMOVAL OF SIDEWALK
- REMOVAL OF CURB AND GUTTER
- PAVEMENT SCARIFICATION
- REMOVAL OF PAVED DRIVEWAY
- REMOVAL OF PCC PAVEMENT

Plot Date: 3/31/2020 9:17 AM
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POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES
- A. Designer:
  1. Prepares Base PPP included in the project plan.
  2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
  3. Is signature authority on the Base PPP.
- B. Contractor:
  1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
  2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
  3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
  4. Installs and maintains appropriate controls. This work may be subcontracted.
  5. Supervises and implements good housekeeping practices.
  6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
  7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
- C. Subcontractors:
  1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if responsible for sediment or erosion controls or involved in land disturbing activitiportion of the PPP covered by this contract has 1.7 acres disturbed. All co-permittees are legally required under the Clean
  Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
  2. Implement good housekeeping practices.
- D. RCE/Project Engineer:
  1. Is Project Storm Water Manager.
  2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
  3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
  4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
  5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
  6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
  7. Is familiar with the Project PPP and storm water site map.
  8. On projects where DOT is Contracting Authority, is responsible for monitoring inspection reports on a monthly basis, to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
  9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
  10. Is signature authority on Notice of Discontinuation.
- E. Inspector:
  1. Updates PPP whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
  2. Maintains an up-to-date record that identifies contractors and subcontractors as co-permittees.
  3. Makes these plans available to the DNR upon their request.
  4. Conducts joint required inspections of the site with the contractor/subcontractor.
  5. Completes an inspection report after each inspection.
  6. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION
- A. This Pollution Prevention Plan (PPP) is for the construction of a road and sidewalks.
- B. This PPP covers approximately 11.9 acres with an estimated 1.7 acres being disturbed. The portion of the PPP covered by this contract has 1.7 acres disturbed.
- C. The PPP is located in an area of a single soil association Type B. The estimated weighted average runoff coefficient number for this PPP after completion will be .81.
- D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.
- E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.
- F. Runoff from this work will flow into Mad Creek and Mississippi River.

III. CONTROLS
- A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.

110-12
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POLLUTION PREVENTION PLAN

- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.
  1. EROSION AND SEDIMENT CONTROLS
     - a. Stabilization Practices
       1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
       2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
          a) Permanently ceased on any portion of the site, or
          b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
       3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
       4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map (when included), Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.
       5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
       6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.
     - b. Structural Practices
       1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
       2) Structural practices to be used for this project are located in the storm water site map (when included), Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.
     - c. Storm Water Management
       1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map (when included) and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.
  2. OTHER CONTROLS
     - a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.
       1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
       2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
       3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
       4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
       5) Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
       6) Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
       7) Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
       8) Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
       9) Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
       10) Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
  3. APPROVED STATE OR LOCAL PLANS
     During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

POLLUTION PREVENTION PLAN

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
   1. Date of the inspection.
   2. Summary of the scope of the inspection.
   3. Name and qualifications of the personnel making the inspection.
   5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
   6. Major observations related to the implementation of the PPP.
   7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the inspector.
C. IDR - Inspector's Daily Report - this contains the inspector's daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Barrett Hubbard
Printed or Typed Name

Signature

PATRICK R LYNCH, ASST. CITY ENGINEER
Printed or Typed Name

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LEGEND

COMPOST FILTER SOCK, 12"

CURB INLET FILTER
SEE DETAIL 1 SHEET Q.09

INTAKE PROTECTION BAG
SEE DETAIL 2 SHEET Q.09

IOWA DOT SEED MIX,
TYPE 6

0 10 20 40
SCALE IN FEET

28+50.85 29+00 30+00 31+00 32+00 33+00 34+00

E. 2ND STREET

RR

MATCHLINE

RR.03
RR.03

RR.03
RR.03

LEGEND

COMPOST FILTER SOCK, 12"

CURB INLET FILTER
SEE DETAIL 1 SHEET Q.09

INTAKE PROTECTION BAG
SEE DETAIL 2 SHEET Q.09

IOWA DOT SEED MIX,
TYPE 6

0 20 40
SCALE IN FEET

RR.03
RR.04

RR.03
RR.04

CYPRESS STREET

RR.03
RR.03

34+00 35+00 36+00 37+00 38+00 39+00

E. 2ND STREET

MATCHLINE

MATCHLINE

RR.03
RR.03

HIGHWAY 92

LOMBARD STREET

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LEGEND

COMPOST FILTER SOCK, 12"

CURB INLET FILTER
SEE DETAIL 1 SHEET Q.09

INTAKE PROTECTION BAG
SEE DETAIL 2 SHEET Q.09

IOWA DOT SEED MIX,
TYPE 6

0 10 20 40
SCALE IN FEET

RR.03
RR.04

RR.04
RR.04

39+00

40+00

41+00

42+00

43+00

44+00

MATCHLINE

E. 2ND STREET

BROOK STREET

SMALLEY STREET

LEGEND

COMPOST FILTER SOCK, 12"

CURB INLET FILTER
SEE DETAIL 1 SHEET Q.09

INTAKE PROTECTION BAG
SEE DETAIL 2 SHEET Q.09

IOWA DOT SEED MIX,
TYPE 6

0 20 40
SCALE IN FEET

PARMALEE STREET

RR.04
RR.04

RR.04
RR.05

44+00

45+00

46+00

47+00

48+00

49+00

MATCHLINE

E. 2ND STREET

RR.04
RR.04

RR.04
RR.05

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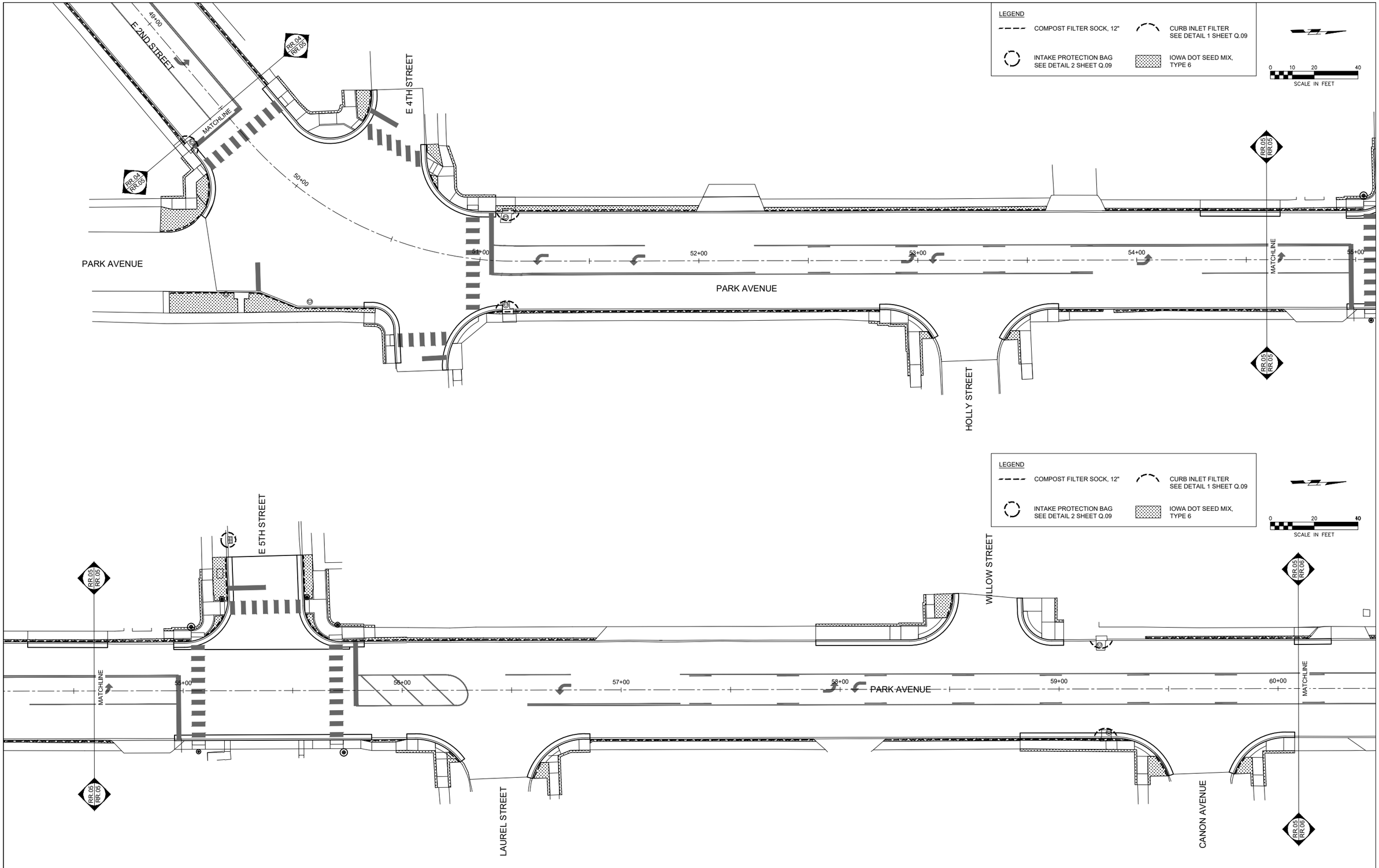

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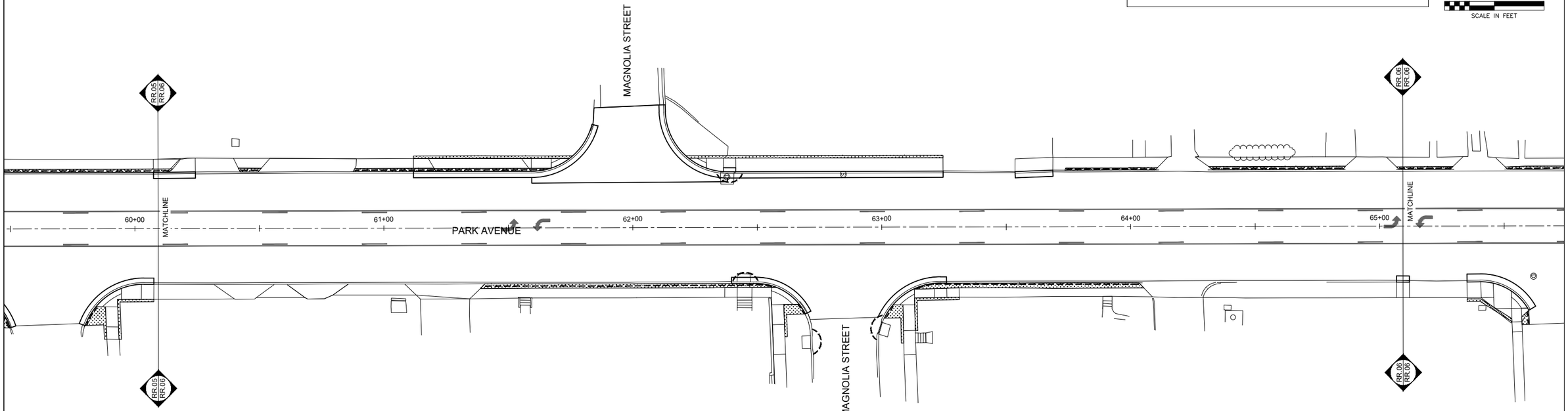

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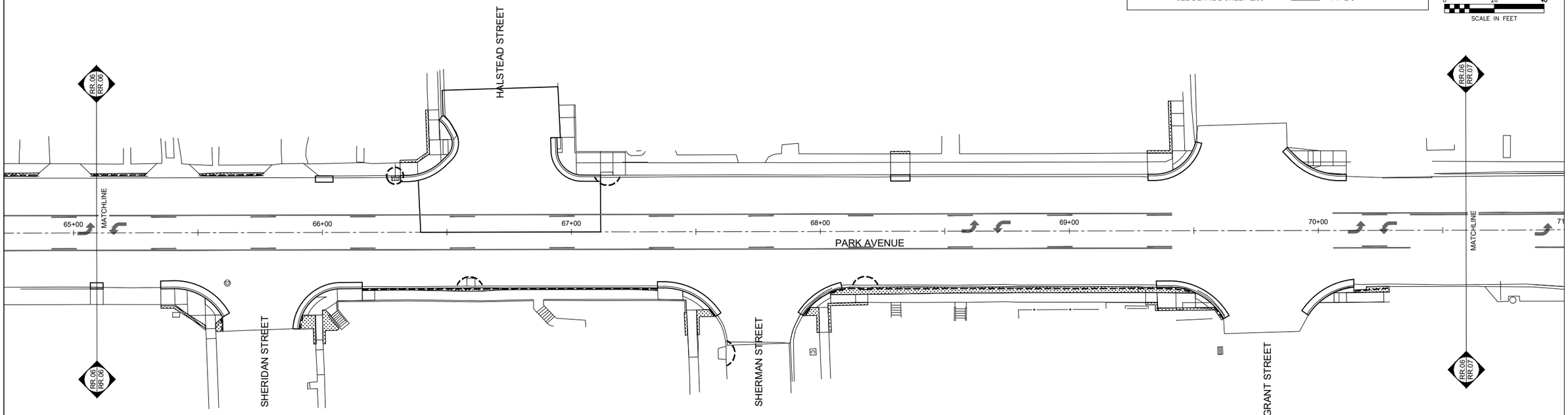

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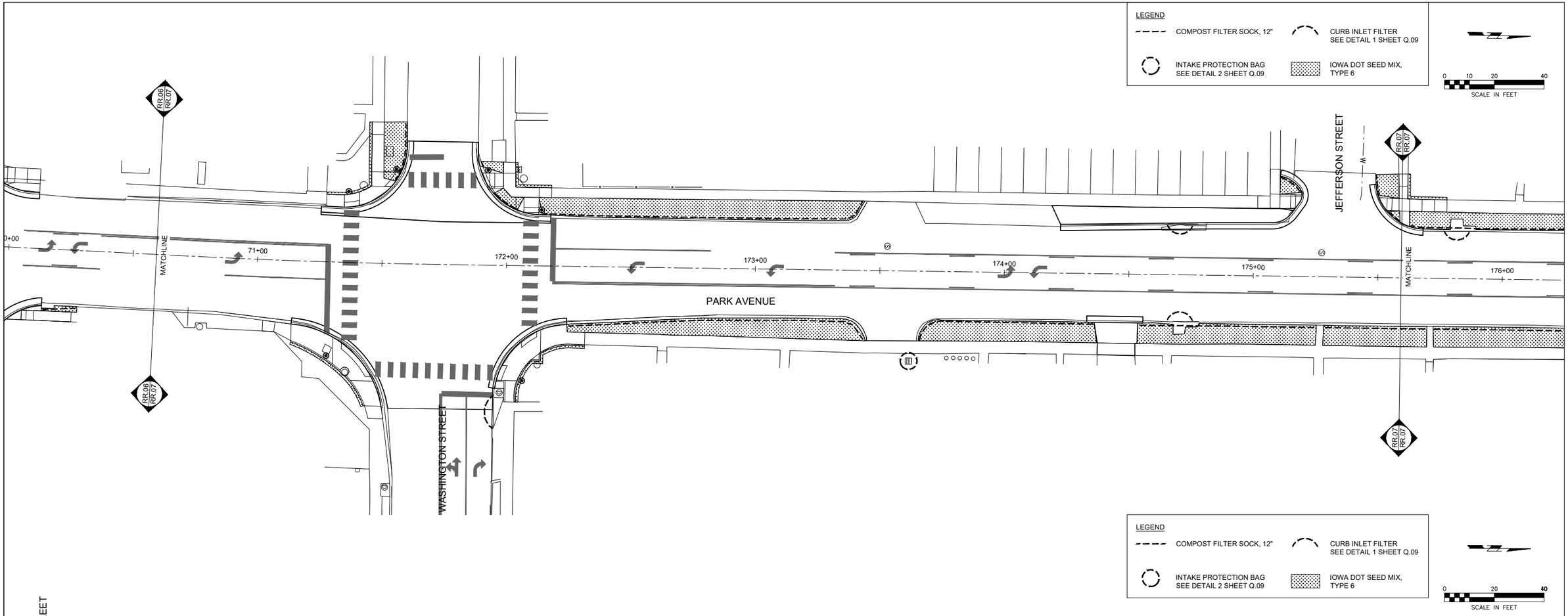
SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	EROSION CONTROL PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER RR.06



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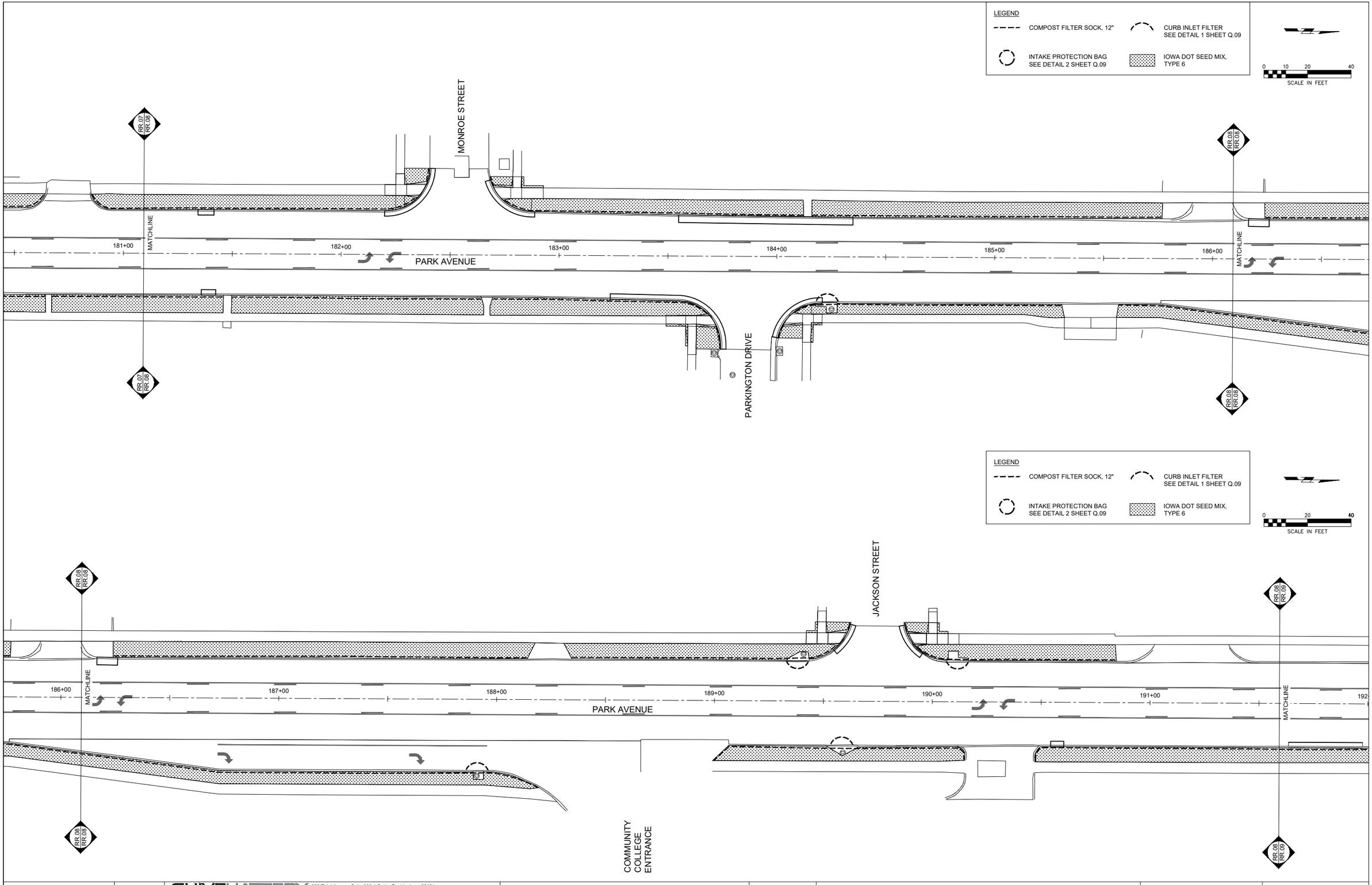
SH PROJECT NO. 3172470	SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	EROSION CONTROL PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER RR.07



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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	EROSION CONTROL PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER RR.08

LEGEND

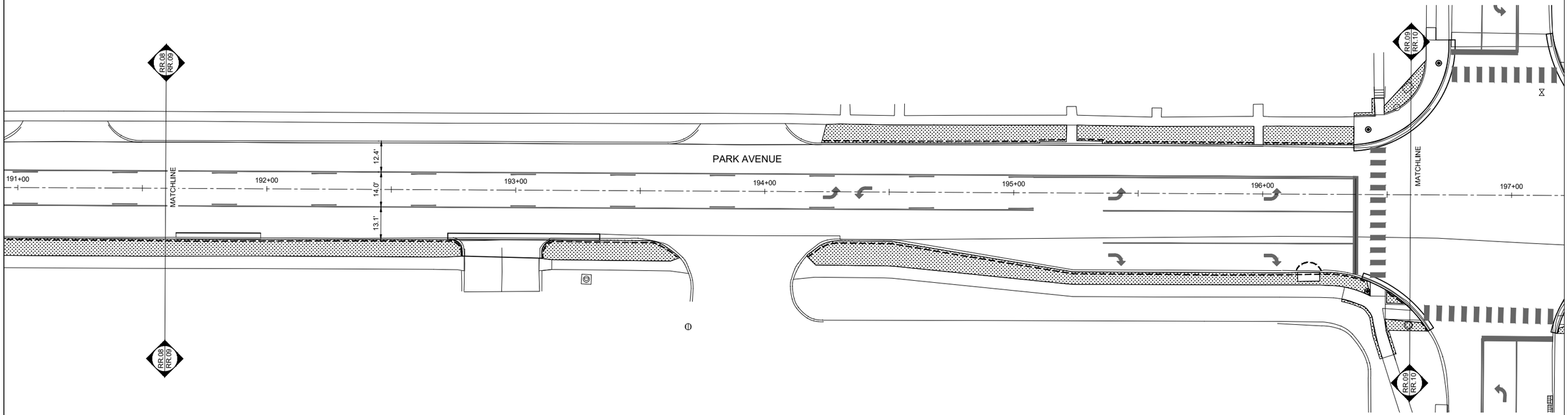
COMPOST FILTER SOCK, 12"

CURB INLET FILTER
SEE DETAIL 1 SHEET Q.09

INTAKE PROTECTION BAG
SEE DETAIL 2 SHEET Q.09

IOWA DOT SEED MIX,
TYPE 6

0 10 20 40
SCALE IN FEET



222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401
319.364.0227 | fax: 319.364.4251 | shive-hattery.com

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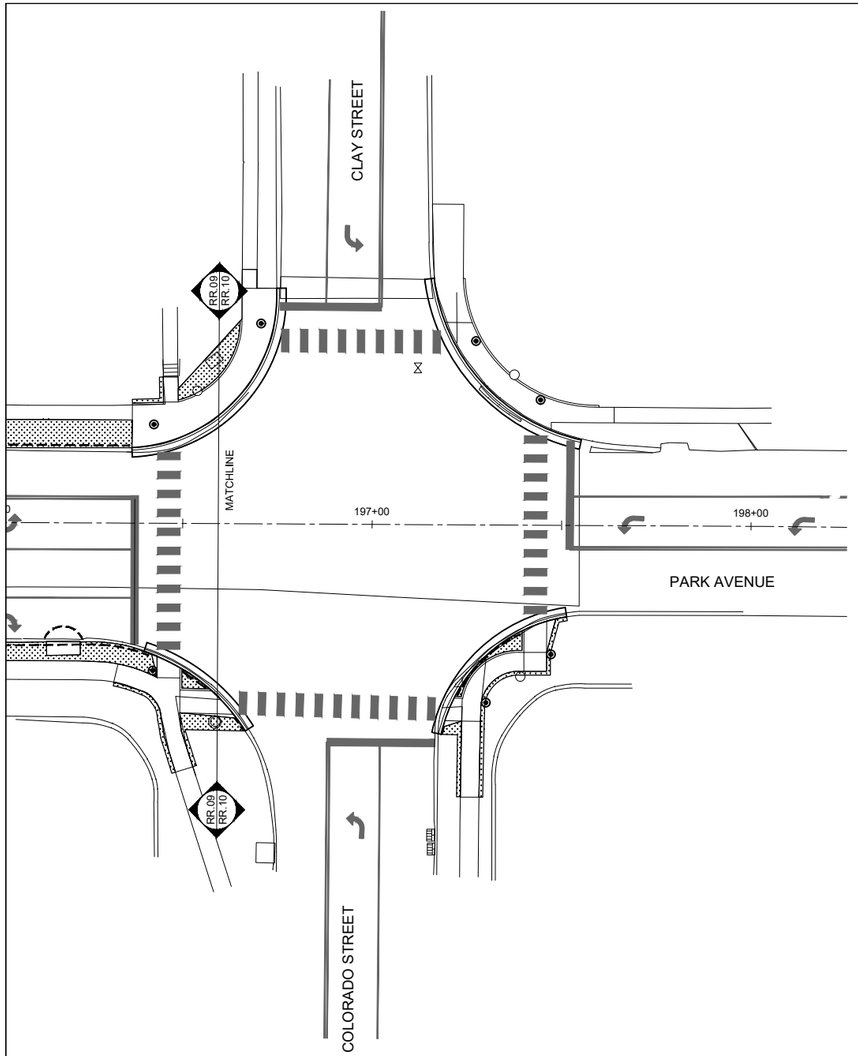
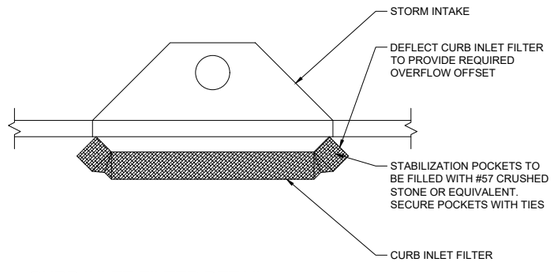


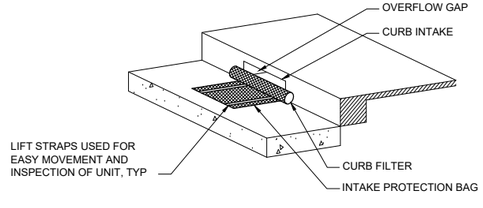
LEGEND

- COMPOST FILTER SOCK, 12"
- CURB INLET FILTER SEE DETAIL 1 SHEET Q.09
- INTAKE PROTECTION BAG SEE DETAIL 2 SHEET Q.09
- IOWA DOT SEED MIX, TYPE 6

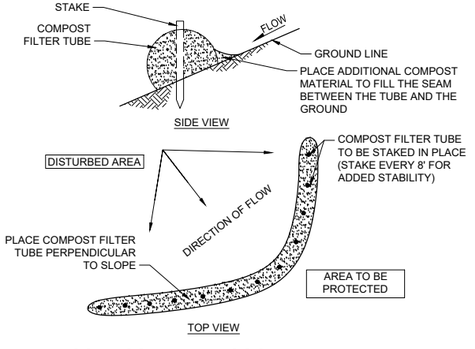
0 10 20 40
SCALE IN FEET



1 CURB INLET FILTER DETAIL
NOT TO SCALE



2 INTAKE PROTECTION BAG DETAIL WITH CURB FILTER
NOT TO SCALE

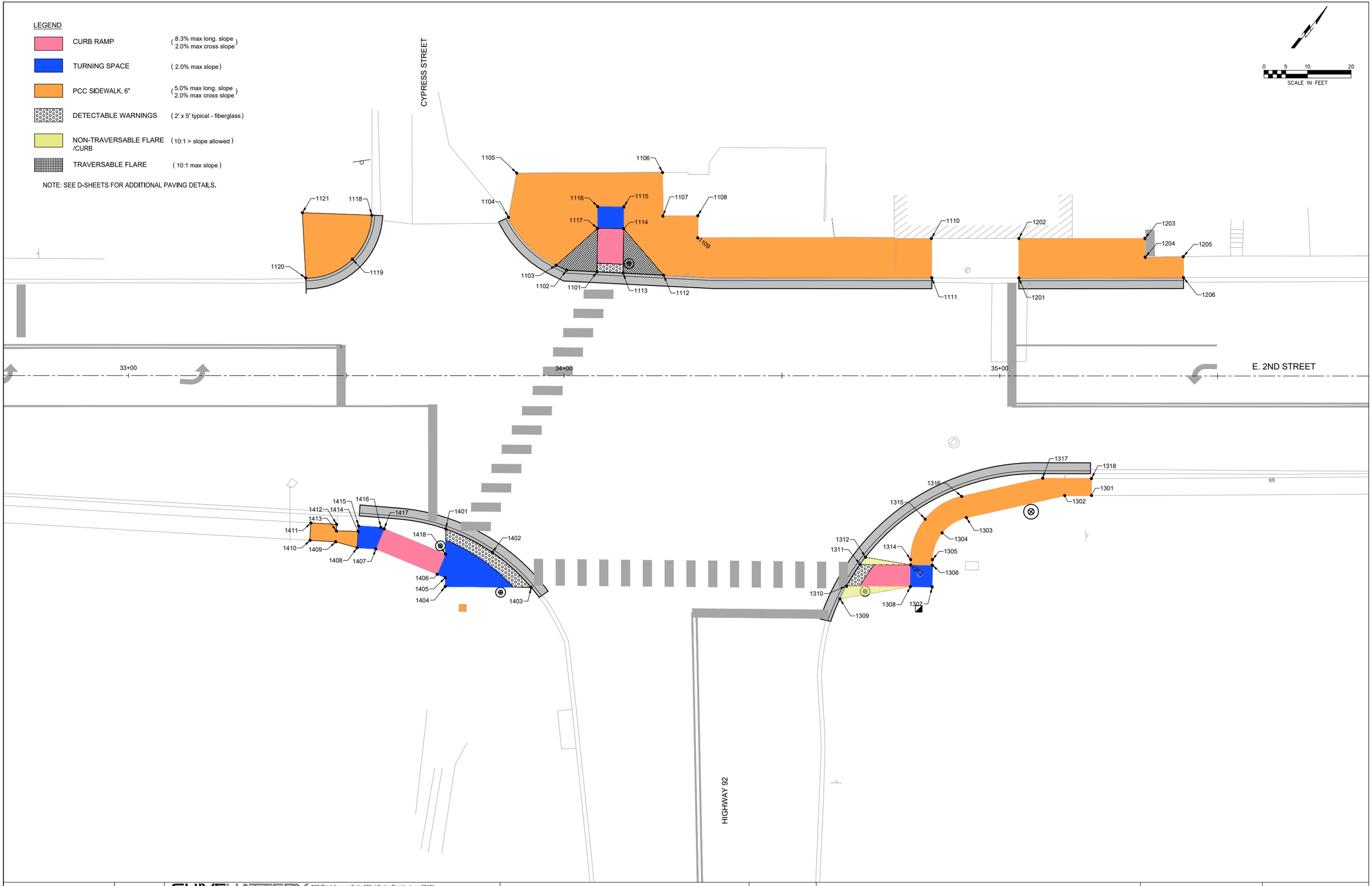


3 COMPOST FILTER SOCK DETAIL
NOT TO SCALE

LEGEND

CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
TURNING SPACE	(2.0% max slope)
PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.



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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING	222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.01

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
1103	1104	Sidewalk Running Slope	4	15.5	0.07	0.50%	0.5% to 5.0%					1101	34+07.56	-23.84	569.77
1103	1117	Sidewalk Running Slope	4	12.7	0.58	4.60%	0.5% to 5.0%	Yes				1102	34+00.55	-24.19	569.78
1104	1117	Sidewalk Running Slope	4	20.6	0.51	2.50%	0.5% to 5.0%					1103	33+98.16	-25.32	569.79
1114	1115	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					1104	33+87.22	-36.34	569.86
1114	1117	Landing/Turning Space	4	6.0	-0.09	-1.50%	0.1% to 2.0%					1105	33+89.12	-46.47	570.36
1115	1116	Landing/Turning Space	4	6.0	-0.09	-1.50%	0.1% to 2.0%					1106	34+22.58	-46.63	571.00
1116	1117	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%					1107	34+22.69	-36.62	570.91
1101	1113	Crosswalk Cross Slope - No Yield Condition	6	6.0	0.30	4.90%	0.0% to 5.0%					1108	34+30.67	-36.70	571.23
1101	1117	Ramp Running Slope	6	10.0	0.60	6.00%	0.5% to 8.3%					1109	34+30.68	-31.62	571.46
1113	1114	Ramp Running Slope	6	10.2	0.39	3.80%	0.5% to 8.3%					1110	34+84.29	-31.50	574.08
1104	1105	Sidewalk Running Slope	4	10.3	0.50	4.90%	0.5% to 5.0%	Yes			Match general street grade	1111	34+84.39	-22.49	573.64
1105	1106	Sidewalk Running Slope	4	33.5	0.64	1.90%	0.5% to 5.0%					1112	34+22.83	-23.07	570.90
1106	1107	Sidewalk Running Slope	4	10.0	-0.09	-0.90%	0.5% to 5.0%					1113	34+13.55	-23.54	570.07
1107	1108	Sidewalk Running Slope	4	8.0	0.33	4.10%	0.5% to 5.0%	Yes				1114	34+13.65	-33.74	570.46
1108	1109	Sidewalk Running Slope	4	5.1	0.23	4.50%	0.5% to 5.0%	Yes				1115	34+13.70	-38.74	570.53
1109	1110	Sidewalk Running Slope	4	53.6	2.62	4.90%	0.5% to 5.0%	Yes				1116	34+07.70	-38.79	570.44
1110	1111	Sidewalk Running Slope	4	9.0	-0.44	-4.90%	0.5% to 5.0%	Yes				1117	34+07.65	-33.79	570.37
1111	1112	Sidewalk Running Slope	4	61.6	-2.74	-4.50%	0.5% to 5.0%	Yes				1118	33+55.86	-36.78	568.57
1118	1119	Sidewalk Running Slope	4	11.0	-0.41	-3.80%	0.5% to 5.0%				Match general street grade	1119	33+51.40	-26.70	568.16
1119	1120	Sidewalk Running Slope	4	11.5	-0.63	-5.50%	0.5% to 6.5%				Match general street grade	1120	33+40.72	-22.37	567.53
1120	1121	Sidewalk Running Slope	4	15.0	0.28	1.90%	0.5% to 5.0%					1121	33+39.92	-37.35	567.81
1121	1118	Sidewalk Running Slope	4	15.9	0.76	4.80%	0.5% to 5.0%	Yes							
1201	1202	Match Existing Cross Slope	4	9.1	0.65	7.10%	Match Existing					1201	35+04.38	-22.47	574.56
1201	1206	Sidewalk Running Slope	4	37.8	1.70	4.50%	0.5% to 5.0%	Yes				1202	35+04.36	-31.52	575.21
1202	1203	Sidewalk Running Slope	4	28.9	0.86	3.00%	0.5% to 5.0%					1203	35+33.29	-31.54	576.07
1203	1204	Match Existing Cross Slope	4	4.3	-0.20	-4.50%	Match Existing					1204	35+33.37	-27.23	575.88
1204	1205	Sidewalk Running Slope	4	8.7	0.34	3.90%	0.5% to 5.0%					1205	35+42.10	-27.35	576.22
1205	1206	Match Existing Cross Slope	4	4.8	0.05	1.00%	Match Existing					1206	35+42.17	-22.56	576.26
1301	1302	Sidewalk Running Slope	4	6.2	0.08	1.30%	0.5% to 5.0%					1301	35+21.07	27.43	575.09
1301	1318	Match Existing Cross Slope	4	3.9	-0.09	-2.20%	Match Existing					1302	35+14.91	27.46	575.17
1302	1303	Sidewalk Running Slope	4	23.1	-1.56	-6.80%	0.5% to 7.8%				Match general street grade	1303	34+92.37	32.53	573.61
1303	1304	Sidewalk Running Slope	4	6.6	-0.50	-7.60%	0.5% to 8.6%				Match general street grade	1304	34+86.79	36.00	573.11
1303	1316	Sidewalk Cross Slope	4	5.0	-0.02	-0.50%	0.5% to 2.0%					1305	34+84.57	42.19	572.61
1304	1305	Sidewalk Running Slope	4	6.6	-0.50	-7.60%	0.5% to 8.6%				Match general street grade	1306	34+84.56	43.42	572.52
1304	1315	Sidewalk Cross Slope	4	5.0	-0.05	-1.10%	0.5% to 2.0%					1307	34+84.51	48.42	572.44
1305	1306	Sidewalk Running Slope	4	1.2	-0.09	-7.40%	0.5% to 8.4%				Match general street grade	1308	34+79.51	48.37	572.39
1305	1314	Sidewalk Cross Slope	4	5.0	-0.08	-1.50%	0.5% to 2.0%					1309	34+63.34	51.15	571.87
1306	1307	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%					1310	34+64.83	48.23	571.43
1306	1313	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%					1311	34+67.97	43.26	571.60
1307	1308	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%					1312	34+69.20	41.62	570.99
1308	1310	Ramp Running Slope	6	14.7	-0.96	-6.60%	0.5% to 8.3%					1313	34+79.56	43.37	572.47
1308	1313	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					1314	34+79.57	42.14	572.53
1310	1311	Crosswalk Cross Slope - Yield Condition	6	5.9	0.17	2.90%	0.0% to 3.9%					1315	34+82.90	32.86	573.05
1311	1313	Ramp Running Slope	6	11.6	0.87	7.50%	0.5% to 8.3%	Yes				1316	34+91.27	27.65	573.58
1313	1314	Sidewalk Running Slope	4	1.2	0.06	5.20%	0.5% to 6.2%				Match general street grade	1317	35+09.86	23.46	574.74
1314	1315	Sidewalk Running Slope	4	9.9	0.52	5.30%	0.5% to 6.3%				Match general street grade	1318	35+21.05	23.53	575.00
1315	1316	Sidewalk Running Slope	4	9.9	0.53	5.30%	0.5% to 6.3%				Match general street grade				
1316	1317	Sidewalk Running Slope	4	19.1	1.16	6.10%	0.5% to 7.1%				Match general street grade				
1317	1318	Sidewalk Running Slope	4	11.2	0.26	2.30%	0.5% to 5.0%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
1401	1402	Crosswalk Cross Slope - No Yield Condition	6	12.0	0.26	2.20%	0.0% to 5.0%					1401	33+72.86	35.18	568.21
1402	1403	Crosswalk Cross Slope - Yield Condition	6	12.0	0.26	2.20%	0.0% to 3.2%					1402	33+83.56	40.55	568.47
1401	1418	Landing/Turning Space	6	5.8	0.09	1.50%	0.1% to 2.0%					1403	33+92.47	48.55	568.73
1418	1406	Landing/Turning Space	6	5.0	0.07	1.50%	0.1% to 2.0%					1404	33+72.74	48.37	568.43
1403	1404	Landing/Turning Space	6	19.7	-0.30	-1.50%	0.1% to 2.0%					1405	33+72.76	46.33	568.40
1405	1404	Landing/Turning Space	6	2.0	0.03	1.50%	0.1% to 2.0%					1406	33+70.90	45.57	568.37
1405	1406	Landing/Turning Space	6	2.0	-0.03	-1.50%	0.1% to 2.0%					1407	33+56.82	39.76	567.32
1418	1417	Ramp Running Slope	6	15.2	-1.05	-6.90%	0.5% to 8.3%					1408	33+52.53	39.47	567.28
1406	1407	Ramp Running Slope	6	15.2	-1.05	-6.90%	0.5% to 8.3%					1409	33+47.61	38.12	566.99
1407	1417	Ramp Cross Slope	6	5.0	-0.07	-1.50%	0.1% to 2.0%					1410	33+41.72	37.79	566.68
1416	1417	Landing/Turning Space	4	0.8	0.01	0.70%	0.1% to 2.0%					1411	33+41.91	33.79	566.50
1413	1412	Landing/Turning Space	4	1.5	-0.01	-0.90%	0.1% to 2.0%					1412	33+47.82	34.11	566.94
1416	1415	Landing/Turning Space	4	5.1	-0.04	-0.70%	0.1% to 2.0%					1413	33+47.77	35.63	566.95
1407	1408	Landing/Turning Space	4	4.3	-0.04	-1.00%	0.1% to 2.0%					1414	33+52.75	35.75	567.22
1408	1414	Landing/Turning Space	4	3.7	-0.06	-1.50%	0.1% to 2.0%					1415	33+52.84	34.48	567.20
1408	1409	Sidewalk Running Slope	4	5.1	-0.29	-5.60%	0.5% to 6.6%				Match general street grade	1416	33+57.97	34.82	567.24
1409	1413	Sidewalk Cross Slope	4	2.5	-0.04	-1.50%	0.5% to 2.0%					1417	33+58.72	35.13	567.24
1409	1410	Sidewalk Running Slope	4	5.9	-0.31	-5.30%	0.5% to 6.3%				Slope required to match existing conditions	1418	33+72.81	40.94	568.30
1410	1411	Match Existing Cross Slope	4	4.0	-0.18	-4.50%	Match Existing								
1411	1412	Sidewalk Running Slope	4	5.9	0.44	7.50%	0.5% to 8.5%				Slope required to match existing conditions				
1412	1413	Sidewalk Cross Slope	4	1.5	0.01	0.90%	0.5% to 2.0%								

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LEGEND

CURB RAMP	(8.3% max long. slope, 2.0% max cross slope)
TURNING SPACE	(2.0% max slope)
PCC SIDEWALK, 6"	(5.0% max long. slope, 2.0% max cross slope)
DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

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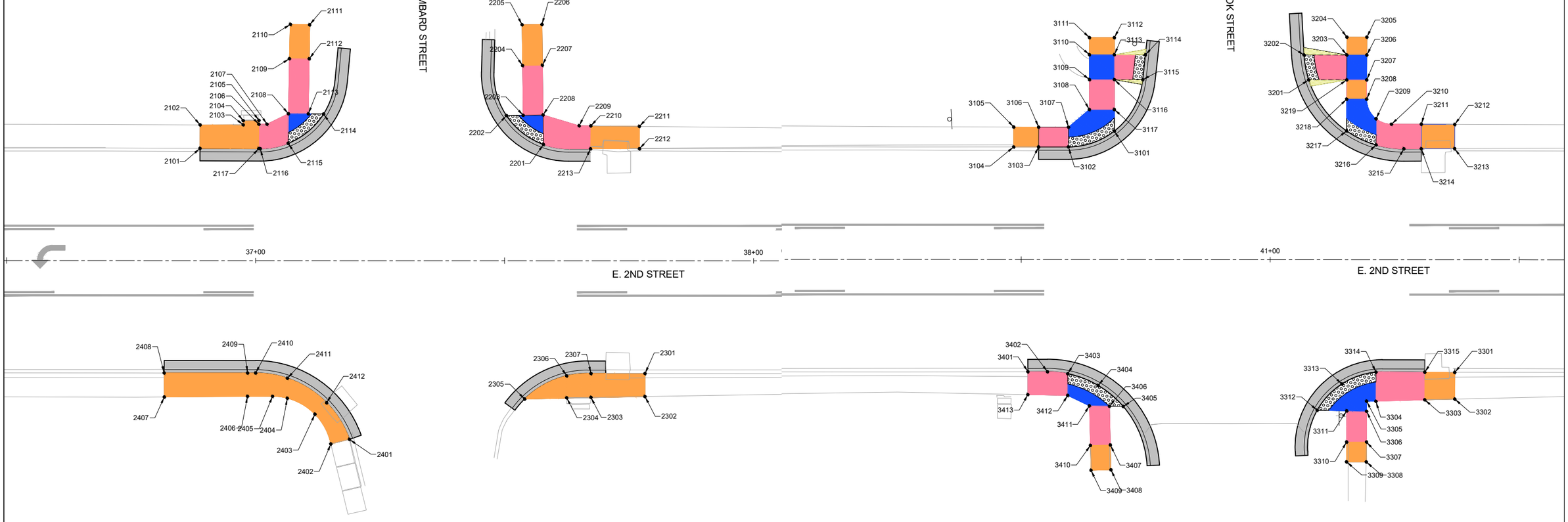
SCALE IN FEET



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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
2101	2102	Match Existing Cross Slope	4	4.7	0.15	3.30%	Match Existing					2101	36+88.83	-22.55	582.54
2101	2117	Sidewalk Running Slope	4	11.8	0.59	5.00%	0.5% to 5.0%	Yes			Match general street grade	2102	36+88.86	-27.26	582.69
2102	2103	Sidewalk Running Slope	4	8.7	0.38	4.30%	0.5% to 5.0%	Yes				2103	36+97.51	-27.29	583.07
2103	2104	Sidewalk Cross Slope	4	0.9	0.01	1.20%	0.5% to 2.0%					2104	36+97.51	-28.14	583.08
2104	2105	Sidewalk Running Slope	4	3.2	0.11	3.50%	0.5% to 5.0%					2105	37+00.68	-28.18	583.19
2105	2106	Sidewalk Cross Slope	4	0.8	0.01	1.40%	0.5% to 2.0%					2106	37+00.66	-27.40	583.20
2106	2107	Ramp Running Slope	6	1.6	-0.08	-4.60%	0.5% to 8.3%					2107	37+02.29	-27.43	583.12
2106	2117	Ramp Cross Slope	6	4.9	-0.07	-1.50%	0.1% to 2.0%					2108	37+06.58	-29.52	582.90
2107	2108	Ramp Running Slope	6	4.8	-0.22	-4.60%	0.5% to 8.3%					2109	37+06.79	-40.58	584.55
2108	2109	Ramp Running Slope	6	11.1	1.65	14.90%	0.5% to 15.9%				Slope required to match existing conditions	2110	37+06.98	-47.48	585.58
2108	2113	Landing/Turning Space	6	4.0	0.04	1.00%	0.1% to 2.0%					2111	37+10.83	-47.39	585.50
2108	2115	Landing/Turning Space	6	6.0	-0.09	-1.50%	0.1% to 2.0%					2112	37+10.76	-40.56	584.52
2109	2110	Sidewalk Running Slope	4	6.9	1.03	14.90%	0.5% to 15.9%				Slope required to match existing conditions	2113	37+10.58	-29.49	582.94
2109	2112	Ramp Cross Slope	6	4.0	-0.03	-0.80%	0.1% to 2.0%					2114	37+13.66	-29.47	582.97
2110	2111	Match Existing Cross Slope	4	3.8	-0.08	-2.10%	Match Existing					2115	37+06.54	-23.57	582.81
2111	2112	Sidewalk Running Slope	4	6.8	-0.98	-14.30%	0.5% to 15.3%				Slope required to match existing conditions	2116	37+00.93	-22.50	583.11
2112	2113	Ramp Running Slope	6	11.1	-1.58	-14.30%	0.5% to 15.3%				Slope required to match existing conditions	2117	37+00.63	-22.50	583.13
2113	2114	Landing/Turning Space	6	3.1	0.03	0.90%	0.1% to 2.0%								
2114	2115	Landing/Turning Space	6	9.2	-0.16	-1.70%	0.1% to 2.0%	Yes							
2115	2116	Ramp Running Slope	6	5.7	0.30	5.20%	0.5% to 8.3%								
2116	2117	Ramp Running Slope	6	0.3	0.02	5.30%	0.5% to 8.3%								
2201	2202	Crosswalk Cross Slope - Yield Condition	6	9.4	-0.12	-1.30%	0.0% to 2.0%					2201	37+57.80	-23.36	584.82
2201	2208	Landing/Turning Space	6	5.9	0.00	-0.10%	0.1% to 2.0%					2202	37+50.37	-29.18	584.70
2201	2213	Ramp Running Slope	6	9.5	0.75	7.90%	0.5% to 8.3%	Yes				2203	37+53.73	-29.23	584.75
2202	2203	Landing/Turning Space	6	3.4	0.05	1.50%	0.1% to 2.0%					2204	37+53.60	-39.22	585.87
2203	2204	Ramp Running Slope	6	10.0	1.13	11.30%	0.5% to 12.3%				Slope required to match existing conditions	2205	37+53.50	-47.42	586.78
2203	2208	Landing/Turning Space	6	4.0	0.07	1.70%	0.1% to 2.0%	Yes				2206	37+57.50	-47.47	586.81
2204	2205	Sidewalk Running Slope	4	8.2	0.91	11.10%	0.5% to 12.1%				Slope required to match existing conditions	2207	37+57.58	-39.28	585.91
2204	2207	Sidewalk Cross Slope	4	4.0	0.04	0.90%	0.5% to 2.0%					2208	37+57.73	-29.28	584.82
2205	2206	Match Existing Cross Slope	4	4.0	0.02	0.50%	Match Existing					2209	37+64.96	-27.12	585.41
2206	2207	Sidewalk Running Slope	4	8.2	-0.90	-10.90%	0.5% to 11.9%				Slope required to match existing conditions	2210	37+67.31	-27.10	585.60
2207	2208	Ramp Running Slope	6	10.0	-1.09	-10.90%	0.5% to 11.9%				Slope required to match existing conditions	2211	37+77.07	-27.00	586.13
2208	2209	Ramp Running Slope	6	7.5	0.59	7.90%	0.5% to 8.3%	Yes				2212	37+77.08	-22.51	586.09
2209	2210	Ramp Running Slope	6	2.3	0.19	8.00%	0.5% to 8.3%	Yes				2213	37+67.26	-22.49	585.57
2210	2211	Sidewalk Running Slope	4	9.8	0.53	5.40%	0.5% to 6.4%				Match general street grade				
2213	2212	Sidewalk Running Slope	4	9.8	0.52	5.30%	0.5% to 6.3%				Match general street grade				
2211	2212	Match Existing Cross Slope	4	4.5	-0.04	-0.80%	Match Existing								
2301	2302	Match Existing Cross Slope	4	4.6	0.20	4.30%	Match Existing					2301	37+78.22	22.67	585.99
2301	2307	Sidewalk Running Slope	4	10.8	-0.35	-3.30%	0.5% to 5.0%					2302	37+78.21	27.29	586.19
2302	2303	Sidewalk Running Slope	4	10.9	-0.48	-4.40%	0.5% to 5.0%	Yes				2303	37+67.36	27.47	585.71
2303	2307	Sidewalk Cross Slope	4	4.8	-0.07	-1.50%	0.5% to 2.0%					2304	37+62.49	27.55	585.54
2303	2304	Sidewalk Running Slope	4	4.9	-0.17	-3.50%	0.5% to 5.0%					2305	37+54.05	27.81	585.18
2304	2305	Sidewalk Running Slope	4	8.4	-0.36	-4.30%	0.5% to 5.0%	Yes				2306	37+62.50	23.14	585.49
2305	2306	Sidewalk Running Slope	4	9.7	0.31	3.30%	0.5% to 5.0%					2307	37+67.37	22.68	585.63
2304	2306	Sidewalk Cross Slope	4	4.4	-0.04	-1.00%	0.5% to 2.0%								
2401	2402	Match Existing Cross Slope	4	3.8	0.10	2.60%	Match Existing					2401	37+18.87	35.93	584.19
2401	2412	Sidewalk Running Slope	4	8.7	-0.54	-6.20%	0.5% to 7.2%				Match curb profile	2402	37+15.14	36.84	584.29
2402	2403	Sidewalk Running Slope	4	6.8	-0.59	-8.80%	0.5% to 9.8%				Match general street grade	2403	37+11.94	30.87	583.70
2403	2404	Sidewalk Running Slope	4	6.4	-0.56	-8.70%	0.5% to 9.7%				Match general street grade	2404	37+06.39	27.67	583.14
2403	2412	Sidewalk Cross Slope	4	3.3	-0.04	-1.30%	0.5% to 2.0%					2405	37+03.42	27.28	583.03
2404	2405	Sidewalk Running Slope	4	3.0	-0.11	-3.50%	0.5% to 5.0%					2406	36+98.39	27.27	582.86
2404	2411	Sidewalk Cross Slope	4	4.0	-0.06	-1.50%	0.5% to 2.0%					2407	36+81.69	27.43	582.24
2405	2406	Sidewalk Running Slope	4	5.0	-0.18	-3.50%	0.5% to 5.0%					2408	36+81.65	22.59	582.02
2406	2407	Sidewalk Running Slope	4	16.7	-0.62	-3.70%	0.5% to 5.0%					2409	36+98.41	22.60	582.80
2407	2408	Match Existing Cross Slope	4	4.8	-0.22	-4.50%	Match Existing					2410	37+00.02	22.60	582.86
2406	2409	Sidewalk Cross Slope	4	4.7	-0.05	-1.20%	0.5% to 2.0%					2411	37+06.40	23.64	583.08
2408	2409	Sidewalk Running Slope	4	16.8	0.78	4.60%	0.5% to 5.0%	Yes			Match curb profile	2412	37+14.27	28.57	583.65
2409	2410	Sidewalk Running Slope	4	1.6	0.06	3.50%	0.5% to 5.0%				Match curb profile				
2410	2411	Sidewalk Running Slope	4	6.5	0.22	3.40%	0.5% to 5.0%				Match curb profile				
2411	2412	Sidewalk Running Slope	4	9.3	0.57	6.20%	0.5% to 7.2%				Match curb profile				

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
3101	3102	Crosswalk Cross Slope - No Yield Condition	6	9.7	-0.21	-2.10%	0.0% to 5.0%					3101	40+68.70	-25.82	596.99
3101	3117	Landing/Turning Space	6	4.4	-0.02	-0.40%	0.1% to 2.0%					3102	40+59.49	-22.65	596.78
3102	3103	Ramp Running Slope	6	6.0	0.30	5.10%	0.5% to 8.3%					3103	40+53.49	-22.65	597.08
3102	3107	Landing/Turning Space	6	4.0	0.04	1.00%	0.1% to 2.0%					3104	40+48.49	-22.64	596.90
3103	3104	Sidewalk Running Slope	4	5.0	-0.19	-3.70%	0.5% to 5.0%					3105	40+48.50	-26.64	596.86
3103	3106	Ramp Cross Slope	6	4.0	0.04	1.00%	0.1% to 2.0%					3106	40+53.50	-26.63	597.12
3104	3105	Match Existing Cross Slope	4	4.0	-0.04	-1.10%	Match Existing					3107	40+59.50	-26.61	596.82
3105	3106	Sidewalk Running Slope	4	5.0	0.27	5.40%	0.5% to 6.4%				Match general street grade	3108	40+63.70	-30.16	596.92
3106	3107	Ramp Running Slope	6	6.0	-0.30	-5.10%	0.5% to 8.3%					3109	40+63.70	-36.18	597.37
3107	3108	Landing/Turning Space	6	5.5	0.10	1.80%	0.1% to 2.0%	Yes				3110	40+63.70	-41.18	597.44
3108	3109	Ramp Running Slope	6	6.0	0.45	7.50%	0.5% to 8.3%	Yes				3111	40+63.70	-44.62	597.64
3108	3117	Landing/Turning Space	6	5.0	0.05	1.00%	0.1% to 2.0%					3112	40+68.70	-44.62	597.47
3109	3110	Landing/Turning Space	4	5.0	0.07	1.50%	0.1% to 2.0%					3113	40+68.70	-41.17	597.39
3109	3116	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%					3114	40+74.94	-41.17	597.61
3110	3111	Sidewalk Running Slope	4	3.4	0.20	5.80%	0.5% to 6.8%				Slope required to match existing conditions	3115	40+74.40	-36.17	597.58
3110	3113	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%					3116	40+68.70	-36.17	597.32
3111	3112	Match Existing Cross Slope	4	5.0	-0.18	-3.50%	Match Existing					3117	40+68.70	-30.17	596.97
3112	3113	Sidewalk Running Slope	4	3.5	-0.07	-2.10%	0.5% to 5.0%				Slope required to match existing conditions				
3113	3114	Ramp Running Slope	6	6.2	0.22	3.50%	0.5% to 8.3%								
3113	3116	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%								
3114	3115	Crosswalk Cross Slope - Yield Condition	6	5.0	-0.03	-0.70%	0.0% to 2.0%								
3115	3116	Ramp Running Slope	6	5.7	-0.26	-4.50%	0.5% to 8.3%								
3116	3117	Ramp Running Slope	6	6.0	-0.35	-5.80%	0.5% to 8.3%								
3201	3202	Crosswalk Cross Slope - Yield Condition	6	5.1	-0.06	-1.10%	0.0% to 2.0%					3201	41+07.74	-36.15	598.64
3201	3219	Ramp Running Slope	6	7.6	0.54	7.00%	0.5% to 8.3%					3202	41+06.80	-41.15	598.58
3202	3203	Ramp Running Slope	6	8.6	0.64	7.50%	0.5% to 8.3%	Yes				3203	41+15.39	-41.14	599.23
3203	3204	Sidewalk Running Slope	4	3.6	0.23	6.30%	0.5% to 7.3%				Slope required to match existing conditions	3204	41+15.41	-44.74	599.45
3203	3206	Landing/Turning Space	4	4.0	0.04	1.00%	0.1% to 2.0%					3205	41+19.41	-44.72	599.46
3203	3219	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%					3206	41+19.39	-41.14	599.27
3204	3205	Match Existing Cross Slope	4	4.0	0.01	0.20%	Match Existing					3207	41+19.38	-36.14	599.22
3205	3206	Sidewalk Running Slope	4	3.6	-0.19	-5.40%	0.5% to 6.4%				Slope required to match existing conditions	3208	41+19.37	-32.26	599.21
3206	3207	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%					3209	41+21.26	-28.32	599.20
3207	3208	Sidewalk Running Slope	4	3.9	-0.01	-0.30%	0.5% to 5.0%					3210	41+24.36	-27.24	599.41
3207	3219	Landing/Turning Space	4	4.0	-0.04	-1.00%	0.1% to 2.0%					3211	41+30.36	-27.23	599.88
3208	3209	Landing/Turning Space	6	4.4	0.00	-0.10%	0.1% to 2.0%					3212	41+37.06	-27.19	600.21
3208	3218	Landing/Turning Space	4	4.0	-0.02	-0.50%	0.1% to 2.0%					3213	41+37.05	-22.33	600.08
3209	3210	Ramp Running Slope	6	3.3	0.20	6.20%	0.5% to 8.3%					3214	41+30.35	-22.31	599.83
3209	3216	Ramp Cross Slope	6	5.2	-0.03	-0.50%	0.1% to 2.0%					3215	41+26.85	-22.30	599.58
3210	3211	Ramp Running Slope	6	6.0	0.47	7.90%	0.5% to 8.3%	Yes				3216	41+21.26	-23.09	599.18
3211	3212	Sidewalk Running Slope	4	6.7	0.33	4.90%	0.5% to 5.0%	Yes			Slope required to match existing conditions	3217	41+15.35	-25.88	599.15
3211	3214	Ramp Cross Slope	6	4.9	-0.05	-1.00%	0.1% to 2.0%					3218	41+15.37	-32.27	599.19
3212	3213	Match Existing Cross Slope	4	4.9	-0.13	-2.60%	Match Existing					3219	41+15.38	-36.14	599.18
3213	3214	Sidewalk Running Slope	4	6.7	-0.25	-3.80%	0.5% to 5.0%				Slope required to match existing conditions				
3214	3215	Ramp Running Slope	6	3.5	-0.25	-7.10%	0.5% to 8.3%								
3215	3216	Ramp Running Slope	6	5.6	-0.40	-7.10%	0.5% to 8.3%								
3216	3217	Crosswalk Cross Slope - No Yield Condition	6	6.5	-0.02	-0.30%	0.0% to 5.0%								
3217	3218	Landing/Turning Space	4	6.4	0.03	0.50%	0.1% to 2.0%								
3218	3219	Sidewalk Running Slope	4	3.9	-0.01	-0.20%	0.5% to 5.0%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
3301	3302	Match Existing Cross Slope	4	5.4	0.13	2.40%	Match Existing					3301	41+37.09	22.65	600.09
3302	3303	Sidewalk Running Slope	4	6.0	-0.38	-6.20%	0.5% to 7.2%				Slope required to match existing conditions	3302	41+37.10	28.01	600.22
3305	3306	Landing/Turning Space	6	2.0	-0.03	-1.50%	0.1% to 2.0%					3303	41+31.06	28.15	599.85
3306	3311	Ramp Cross Slope	6	4.0	-0.06	-1.50%	0.1% to 2.0%					3304	41+21.26	28.46	599.09
3306	3307	Ramp Running Slope	6	6.2	0.34	5.50%	0.5% to 8.3%					3305	41+19.39	28.43	599.06
3307	3310	Ramp Cross Slope	6	4.0	-0.07	-1.70%	0.1% to 2.0%	Yes				3306	41+19.39	30.46	599.03
3307	3308	Sidewalk Running Slope	4	4.0	0.22	5.50%	0.5% to 6.5%				Slope required to match existing conditions	3307	41+19.38	36.64	599.37
3308	3309	Match Existing Cross Slope	4	4.0	-0.08	-2.00%	Match Existing					3308	41+19.34	40.64	599.59
3309	3310	Sidewalk Running Slope	4	4.0	-0.21	-5.30%	0.5% to 6.3%				Slope required to match existing conditions	3309	41+15.37	40.63	599.51
3310	3311	Ramp Running Slope	6	6.3	-0.33	-5.30%	0.5% to 8.3%					3310	41+15.38	36.63	599.30
3311	3312	Landing/Turning Space	6	5.9	-0.09	-1.50%	0.1% to 2.0%					3311	41+15.39	30.38	598.97
3312	3313	Crosswalk Cross Slope - Yield Condition	6	7.2	0.09	1.20%	0.0% to 2.0%					3312	41+09.48	30.27	598.88
3313	3314	Crosswalk Cross Slope - No Yield Condition	6	7.2	0.09	1.20%	0.0% to 5.0%					3313	41+14.44	24.99	598.97
3314	3315	Ramp Running Slope	6	9.8	0.71	7.20%	0.5% to 8.3%					3314	41+21.27	22.60	599.06
3315	3301	Sidewalk Running Slope	4	6.0	0.33	5.50%	0.5% to 6.5%				Slope required to match existing conditions	3315	41+31.07	22.61	599.77
3401	3402	Ramp Running Slope	6	3.9	-0.04	-1.00%	0.5% to 8.3%					3401	40+51.37	22.54	596.88
3402	3403	Ramp Running Slope	6	4.1	-0.04	-1.00%	0.5% to 8.3%					3402	40+55.30	22.54	596.84
3403	3412	Ramp Cross Slope	6	4.4	0.07	1.70%	0.1% to 2.0%	Yes				3403	40+59.37	22.95	596.80
3403	3404	Crosswalk Cross Slope - No Yield Condition	6	6.6	0.13	2.00%	0.0% to 5.0%					3404	40+65.49	25.30	596.93
3404	3405	Crosswalk Cross Slope - Yield Condition	6	6.6	0.13	2.00%	0.0% to 2.0%					3405	40+70.51	29.51	597.06
3405	3406	Landing/Turning Space	6	2.8	-0.04	-1.60%	0.1% to 2.0%	Yes				3406	40+67.75	29.46	597.02
3406	3411	Ramp Cross Slope	6	4.0	-0.07	-1.70%	0.1% to 2.0%	Yes				3407	40+67.93	37.25	597.74
3406	3407	Ramp Running Slope	6	7.8	0.72	9.30%	0.5% to 10.3%				Slope required to match existing conditions	3408	40+68.05	42.24	598.21
3407	3408	Sidewalk Running Slope	4	5.0	0.46	9.30%	0.5% to 10.3%				Slope required to match existing conditions	3409	40+64.05	42.34	598.11
3407	3410	Ramp Cross Slope	6	4.0	-0.08	-1.90%	0.1% to 2.0%	Yes				3410	40+63.93	37.34	597.67
3408	3409	Match Existing Cross Slope	4	4.0	-0.09	-2.30%	Match Existing					3411	40+63.71	29.38	596.95
3409	3410	Sidewalk Running Slope	4	5.0	-0.45	-9.00%	0.5% to 10%				Slope required to match existing conditions	3412	40+59.36	27.30	596.87
3410	3411	Ramp Running Slope	6	8.0	-0.71	-9.00%	0.5% to 10%				Slope required to match existing conditions	3413	40+51.36	27.14	597.01
3411	3412	Landing/Turning Space	6	4.8	-0.08	-1.60%	0.1% to 2.0%	Yes							
3412	3413	Ramp Running Slope	6	8.0	0.14	1.70%	0.5% to 8.3%								
3413	3401	Match Existing Cross Slope	4	4.6	-0.13	-2.80%	Match Existing								

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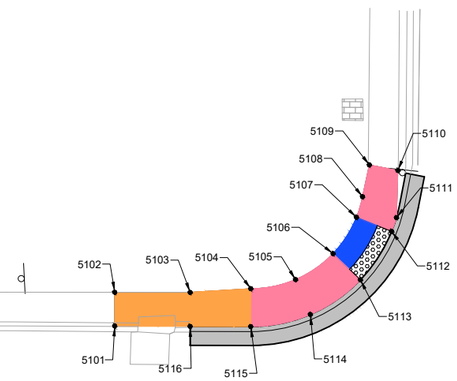
LEGEND

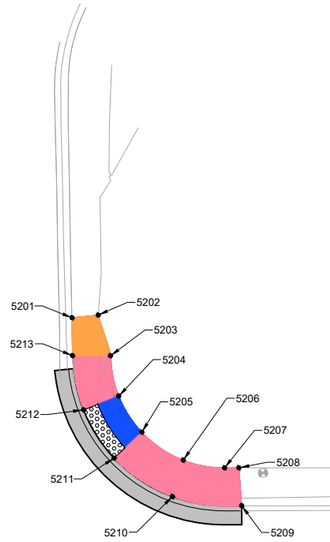
	CURB RAMP	(8.3% max long. slope, 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope, 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET

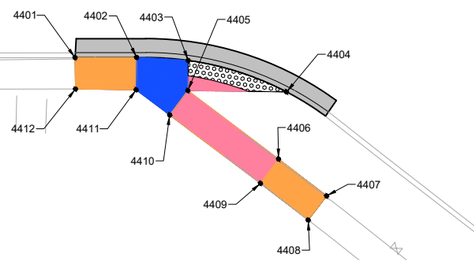


PARMALEE STREET

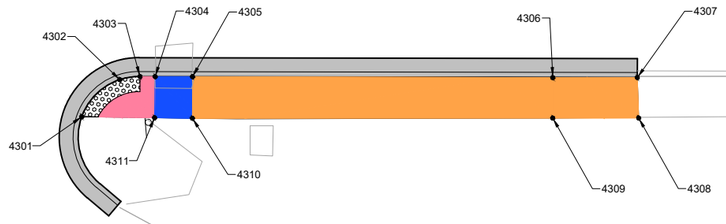


E. 2ND STREET

42+00 43+00 44+00 45+0



SMALLEY STREET



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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.08

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
4301	4302	Crosswalk Cross Slope - Yield Condition	6	7.0	-0.06	-0.80%	0.0% to 2.0%					4301	43+17.28	27.83	603.34
4301	4309	Ramp Running Slope	6	62.2	0.78	1.30%	0.5% to 8.3%					4302	43+22.29	22.93	603.28
4302	4303	Ramp Running Slope	6	2.7	0.21	7.70%	0.5% to 8.3%	Yes				4303	43+24.95	22.53	603.49
4303	4304	Ramp Running Slope	6	2.0	0.16	8.10%	0.5% to 8.3%	Yes				4304	43+26.95	22.53	603.65
4304	4305	Landing/Turning Space	4	4.9	0.04	0.70%	0.1% to 2.0%					4305	43+31.88	22.54	603.69
4304	4311	Ramp Cross Slope	6	5.4	0.08	1.50%	0.1% to 2.0%					4306	43+79.43	22.64	604.04
4305	4306	Sidewalk Running Slope	4	47.5	0.35	0.70%	0.5% to 5.0%					4307	43+90.59	22.63	604.17
4305	4310	Landing/Turning Space	4	5.5	0.08	1.50%	0.1% to 2.0%					4308	43+90.77	27.96	604.77
4306	4309	Sidewalk Cross Slope	4	5.3	0.08	1.50%	0.5% to 2.0%					4309	43+79.44	27.97	604.12
4306	4307	Sidewalk Running Slope	4	11.2	0.13	1.20%	0.5% to 5.0%					4310	43+31.88	28.02	603.77
4309	4308	Sidewalk Running Slope	4	11.3	0.65	5.70%	0.5% to 6.7%				Slope required to match existing conditions	4311	43+26.88	27.95	603.73
4307	4308	Match Existing Cross Slope	4	5.3	0.59	11.10%	Match Existing								
4401	4402	Sidewalk Running Slope	4	8.1	-0.18	-2.20%	0.5% to 5.0%					4401	42+34.03	22.58	602.68
4401	4412	Match Existing Cross Slope	4	4.1	-0.01	-0.30%	Match Existing					4402	42+42.15	22.54	602.50
4402	4403	Landing/Turning Space	4	6.8	-0.03	-0.40%	0.1% to 2.0%					4403	42+48.96	22.94	602.47
4402	4411	Landing/Turning Space	4	4.3	0.06	1.50%	0.1% to 2.0%					4404	42+61.95	27.08	602.61
4403	4404	Crosswalk Cross Slope - Yield Condition	6	13.6	0.14	1.00%	0.0% to 2.0%					4405	42+48.91	26.91	602.53
4403	4405	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					4406	42+60.89	35.93	603.65
4404	4405	Ramp Running Slope	6	13.0	-0.08	-0.60%	0.5% to 8.3%					4407	42+67.23	40.81	604.11
4405	4406	Ramp Running Slope	6	15.0	1.13	7.50%	0.5% to 8.3%	Yes				4408	42+64.80	43.98	604.08
4405	4410	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					4409	42+58.50	39.14	603.71
4406	4407	Sidewalk Running Slope	4	8.0	0.45	5.60%	0.5% to 6.6%				Slope required to match existing conditions	4410	42+46.52	30.12	602.59
4407	4408	Match Existing Cross Slope	4	4.0	-0.03	-0.70%	Match Existing					4411	42+42.09	26.81	602.56
4408	4409	Sidewalk Running Slope	4	7.9	-0.36	-4.60%	0.5% to 5.0%	Yes			Slope required to match existing conditions	4412	42+34.08	26.71	602.66
4409	4410	Ramp Running Slope	6	15.0	-1.13	-7.50%	0.5% to 8.3%	Yes							
4410	4411	Landing/Turning Space	4	5.5	-0.03	-0.50%	0.1% to 2.0%								
4411	4402	Landing/Turning Space	4	4.3	-0.06	-1.50%	0.1% to 2.0%								
4411	4412	Sidewalk Running Slope	4	8.0	0.10	1.30%	0.5% to 5.0%								
4412	4401	Match Existing Cross Slope	4	4.1	0.01	0.30%	Match Existing								
5101	5102	Match Existing Cross Slope	4	4.5	-0.02	-0.50%	Match Existing					5101	43+50.76	-22.70	603.85
5101	5116	Sidewalk Running Slope	4	10.0	0.08	0.80%	0.5% to 5.0%					5102	43+50.77	-27.15	603.83
5102	5103	Sidewalk Running Slope	4	10.0	0.16	1.70%	0.5% to 5.0%					5103	43+60.72	-27.13	604.00
5103	5104	Sidewalk Running Slope	4	8.0	0.08	1.00%	0.5% to 5.0%					5104	43+68.72	-27.63	604.08
5103	5116	Sidewalk Cross Slope	4	4.5	-0.07	-1.50%	0.5% to 2.0%					5105	43+74.62	-28.83	603.75
5104	5105	Ramp Running Slope	6	6.0	-0.33	-5.50%	0.5% to 8.3%					5106	43+79.58	-32.26	603.42
5104	5115	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%					5107	43+82.66	-37.06	603.47
5105	5106	Ramp Running Slope	6	6.0	-0.33	-5.40%	0.5% to 8.3%					5108	43+83.46	-39.77	603.54
5105	5114	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%					5109	43+84.36	-43.97	603.65
5106	5107	Landing/Turning Space	6	5.7	0.04	0.80%	0.1% to 2.0%					5110	43+88.13	-43.24	603.59
5106	5113	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%					5111	43+87.93	-37.02	603.52
5107	5108	Ramp Running Slope	6	2.8	0.07	2.60%	0.5% to 8.3%					5112	43+87.31	-35.20	603.42
5108	5109	Ramp Running Slope	6	4.3	0.11	2.60%	0.5% to 8.3%					5113	43+83.19	-28.80	603.37
5109	5110	Ramp Cross Slope	6	3.8	-0.06	-1.50%	0.1% to 2.0%					5114	43+76.59	-24.23	603.70
5110	5111	Ramp Running Slope	6	6.2	-0.08	-1.20%	0.5% to 8.3%					5115	43+68.72	-22.63	604.03
5111	5112	Ramp Running Slope	6	1.9	-0.10	-5.20%	0.5% to 8.3%					5116	43+60.72	-22.64	603.93
5112	5113	Crosswalk Cross Slope - Yield Condition	6	7.6	-0.05	-0.60%	0.0% to 2.0%								
5113	5114	Ramp Running Slope	6	8.0	0.33	4.10%	0.5% to 8.3%								
5107	5112	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%								
5201	5202	Match Existing Cross Slope	4	3.5	0.19	5.40%	Match Existing					5201	44+21.27	-47.45	603.67
5202	5203	Sidewalk Running Slope	4	5.6	0.04	0.70%	0.5% to 5.0%					5202	44+24.72	-47.79	603.86
5203	5204	Ramp Running Slope	6	5.4	-0.19	-3.40%	0.5% to 8.3%					5203	44+26.34	-42.43	603.90
5203	5213	Ramp Cross Slope	6	5.0	-0.07	-1.50%	0.1% to 2.0%					5204	44+27.44	-37.11	603.71
5204	5205	Landing/Turning Space	6	5.6	0.03	0.50%	0.1% to 2.0%					5205	44+30.48	-32.35	603.74
5204	5212	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%					5206	44+35.95	-28.66	604.10
5205	5211	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%					5207	44+41.41	-27.63	604.41
5205	5206	Ramp Running Slope	6	6.6	0.37	5.50%	0.5% to 8.3%					5208	44+43.30	-27.65	604.52
5206	5207	Ramp Running Slope	6	5.6	0.31	5.50%	0.5% to 8.3%					5209	44+43.68	-22.64	604.61
5207	5208	Ramp Running Slope	6	1.9	0.10	5.50%	0.5% to 8.3%					5210	44+34.54	-23.85	604.05
5208	5209	Match Existing Cross Slope	4	5.0	0.10	1.90%	Match Existing					5211	44+26.85	-28.92	603.66
5209	5210	Ramp Running Slope	6	9.2	-0.56	-6.10%	0.5% to 8.3%					5212	44+22.81	-35.28	603.64
5210	5211	Ramp Running Slope	6	9.2	-0.39	-4.20%	0.5% to 8.3%					5213	44+21.33	-42.45	603.82
5211	5212	Crosswalk Cross Slope - Yield Condition	6	7.5	-0.03	-0.40%	0.0% to 2.0%								
5206	5210	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%								

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LEGEND

	CURB RAMP	(8.3% max long. slope, 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope, 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET

E. 4TH STREET

E. 2ND STREET

PARK AVENUE

49+00

50+00

51+00

6101 6102 6103 6104 6105 6106 6107 6108 6109 6110 6111

6401 6402 6403 6404 6405 6406 6407 6408 6409 6410 6411 6412 6413 6414 6415 6416 6417 6418 6419

7101 7102 7103 7104 7105 7106 7107 7108 7109 7110 7111 7112 7113 7114 7115

7201 7202 7203 7204 7205 7206 7207 7208 7209 7210 7211 7212 7213 7214 7215 7216 7217 7218 7219 7220 7221

7301 7302 7303 7304 7305 7306 7307 7308 7309 7310 7311 7312 7313 7314 7315 7316 7317 7318

7401 7402 7403 7404 7405 7406 7407 7408 7409 7410 7411 7412 7413 7414

SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING	222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.10

Plot Date: 3/31/2020 9:25 AM
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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
6101	6102	Match Existing Cross Slope	4	5.9	0.03	0.50%	Match Existing					6101	49+55.96	-22.53	608.85
6101	6111	Ramp Running Slope	6	8.0	-0.44	-5.50%	0.5% to 8.3%					6102	49+55.95	-28.47	608.88
6102	6103	Ramp Running Slope	6	8.0	-0.38	-4.70%	0.5% to 8.3%					6103	49+63.95	-28.34	608.50
6103	6104	Landing/Turning Space	4	5.4	0.05	1.00%	0.1% to 2.0%					6104	49+69.36	-28.25	608.55
6103	6111	Ramp Cross Slope	6	5.8	-0.09	-1.50%	0.1% to 2.0%					6105	49+72.94	-28.12	608.75
6104	6105	Ramp Running Slope	6	3.6	0.20	5.70%	0.5% to 8.3%					6106	49+79.07	-28.31	609.10
6104	6110	Ramp Cross Slope	6	5.8	-0.09	-1.50%	0.1% to 2.0%					6107	49+81.44	-28.92	609.13
6105	6106	Ramp Running Slope	6	6.1	0.35	5.70%	0.5% to 8.3%					6108	49+80.52	-22.00	609.07
6106	6107	Sidewalk Running Slope	4	2.4	0.03	1.30%	0.5% to 5.0%					6109	49+78.54	-22.14	609.07
6106	6109	Ramp Cross Slope	6	6.2	-0.03	-0.50%	0.1% to 2.0%					6110	49+69.27	-22.50	608.46
6107	6108	Sidewalk Cross Slope	4	7.0	-0.06	-0.80%	0.5% to 2.0%					6111	49+63.95	-22.52	608.41
6108	6109	Sidewalk Running Slope	4	2.0	0.00	-0.20%	0.5% to 5.0%								
6109	6110	Ramp Running Slope	6	9.3	-0.61	-6.50%	0.5% to 8.3%								
6110	6111	Crosswalk Cross Slope - No Yield Condition	6	5.3	-0.05	-1.00%	0.0% to 5.0%								
6401	6402	Ramp Running Slope	6	6.5	-0.36	-5.60%	0.5% to 8.3%					6401	49+55.98	22.76	609.08
6401	6417	Ramp Cross Slope	6	4.9	-0.06	-1.20%	0.1% to 2.0%					6402	49+62.45	22.82	608.72
6402	6403	Ramp Running Slope	6	1.5	-0.07	-4.60%	0.5% to 8.3%					6403	49+63.98	22.90	608.65
6403	6404	Crosswalk Cross Slope - No Yield Condition	6	4.9	0.04	0.80%	0.0% to 5.0%					6404	49+68.72	24.00	608.69
6403	6416	Ramp Cross Slope	6	4.8	0.07	1.50%	0.1% to 2.0%					6405	49+68.69	27.69	608.75
6404	6405	Landing/Turning Space	6	3.7	0.05	1.50%	0.1% to 2.0%					6406	49+68.67	30.60	608.88
6405	6406	Sidewalk Running Slope	4	2.9	0.13	4.50%	0.5% to 5.0%	Yes				6407	49+73.17	35.10	609.19
6405	6416	Landing/Turning Space	4	4.7	-0.02	-0.50%	0.1% to 2.0%					6408	49+76.31	38.47	609.14
6406	6407	Sidewalk Running Slope	4	7.0	0.32	4.50%	0.5% to 5.0%	Yes				6409	49+73.54	42.24	609.19
6407	6408	Landing/Turning Space	4	4.6	-0.05	-1.10%	0.1% to 2.0%					6410	49+70.25	46.95	609.67
6407	6414	Landing/Turning Space	4	4.6	0.05	1.10%	0.1% to 2.0%					6411	49+67.04	49.97	609.84
6408	6409	Landing/Turning Space	4	4.7	0.05	1.10%	0.1% to 2.0%					6412	49+64.17	47.58	609.68
6409	6414	Ramp Cross Slope	6	4.5	0.05	1.10%	0.1% to 2.0%					6413	49+67.29	43.73	609.71
6409	6410	Ramp Running Slope	6	6.3	0.47	7.50%	0.5% to 8.3%	Yes				6414	49+70.55	38.93	609.24
6410	6413	Ramp Cross Slope	6	5.0	0.05	1.00%	0.1% to 2.0%					6415	49+63.98	33.01	608.88
6410	6411	Sidewalk Running Slope	4	5.2	0.17	3.30%	0.5% to 5.0%					6416	49+63.98	27.69	608.72
6411	6412	Match Existing Cross Slope	4	3.7	-0.16	-4.30%	Match Existing					6417	49+55.98	27.69	609.03
6412	6413	Sidewalk Running Slope	4	5.0	0.04	0.80%	0.5% to 5.0%					6418	49+49.53	27.65	608.96
6413	6414	Ramp Running Slope	6	6.3	-0.47	-7.50%	0.5% to 8.3%	Yes				6419	49+49.53	22.68	608.95
6414	6415	Sidewalk Running Slope	4	9.4	-0.37	-3.90%	0.5% to 5.0%								
6415	6416	Sidewalk Running Slope	4	5.3	-0.15	-2.90%	0.5% to 5.0%								
6416	6417	Ramp Running Slope	6	8.0	0.30	3.80%	0.5% to 8.3%								
6417	6401	Ramp Cross Slope	6	4.9	0.06	1.20%	0.1% to 2.0%								
6417	6418	Sidewalk Running Slope	4	6.4	-0.07	-1.10%	0.5% to 5.0%								
6418	6419	Match Existing Cross Slope	4	5.0	-0.01	-0.10%	Match Existing								
6419	6401	Sidewalk Running Slope	4	6.4	0.13	2.10%	0.5% to 5.0%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
7102	7103	Ramp Cross Slope	6	5.5	0.05	0.90%	0.1% to 2.0%					7101	49+95.96	-25.28	609.14
7102	7115	Ramp Running Slope	6	9.1	-0.32	-3.60%	0.5% to 8.3%					7102	49+89.04	-28.20	609.14
7103	7104	Ramp Running Slope	6	9.1	-0.32	-3.60%	0.5% to 8.3%					7103	49+84.77	-31.72	609.19
7104	7105	Landing/Turning Space	6	2.3	-0.02	-0.70%	0.1% to 2.0%					7104	49+91.94	-37.39	608.86
7104	7115	Ramp Cross Slope	6	5.7	-0.05	-0.90%	0.1% to 2.0%					7105	49+93.24	-39.30	608.85
7105	7106	Landing/Turning Space	6	2.1	-0.01	-0.70%	0.1% to 2.0%					7106	49+92.16	-41.07	608.83
7106	7107	Landing/Turning Space	6	1.6	-0.01	-0.60%	0.1% to 2.0%					7107	49+93.47	-42.03	608.82
7107	7108	Ramp Running Slope	6	9.2	0.30	3.20%	0.5% to 8.3%					7108	49+85.97	-47.32	609.12
7107	7110	Ramp Cross Slope	6	6.1	-0.05	-0.80%	0.1% to 2.0%					7109	49+91.30	-50.69	608.99
7108	7109	Match Existing Cross Slope	6	6.3	-0.13	-2.10%	Match Existing					7110	49+98.68	-45.28	608.77
7109	7110	Ramp Running Slope	6	9.2	-0.21	-2.30%	0.5% to 8.3%					7111	50+03.49	-41.32	608.72
7110	7111	Landing/Turning Space	6	6.2	-0.05	-0.90%	0.1% to 2.0%					7112	50+07.94	-41.70	608.69
7111	7112	Landing/Turning Space	6	4.5	-0.03	-0.70%	0.1% to 2.0%					7113	50+06.76	-36.58	608.68
7111	7114	Landing/Turning Space	6	6.9	0.04	0.70%	0.1% to 2.0%					7114	49+99.32	-35.82	608.77
7112	7113	Crosswalk Cross Slope - Yield Condition	6	5.3	-0.01	-0.20%	0.0% to 2.0%					7115	49+96.24	-33.68	608.82
7113	7114	Landing/Turning Space	6	7.5	0.09	1.20%	0.1% to 2.0%								
7114	7115	Landing/Turning Space	6	3.7	0.05	1.30%	0.1% to 2.0%								
7201	7202	Crosswalk Cross Slope - Yield Condition	6	6.8	0.04	0.50%	0.0% to 2.0%					7201	50+56.52	-34.81	609.28
7201	7221	Ramp Running Slope	6	5.8	0.35	6.00%	0.5% to 8.3%					7202	50+52.77	-40.44	609.32
7202	7203	Ramp Running Slope	6	11.1	0.36	3.20%	0.5% to 8.3%					7203	50+63.77	-38.67	609.68
7203	7204	Sidewalk Running Slope	4	10.9	0.07	0.70%	0.5% to 5.0%					7204	50+57.26	-47.45	609.75
7203	7221	Ramp Cross Slope	6	5.1	-0.05	-1.00%	0.1% to 2.0%					7205	50+62.48	-48.28	609.81
7204	7205	Match Existing Cross Slope	4	5.3	0.06	1.20%	Match Existing					7206	50+70.12	-40.04	609.75
7205	7206	Sidewalk Running Slope	4	11.2	-0.06	-0.60%	0.5% to 5.0%					7207	50+71.56	-35.89	609.82
7206	7207	Landing/Turning Space	4	4.4	0.07	1.50%	0.1% to 2.0%					7208	50+81.58	-31.16	610.11
7207	7208	Ramp Running Slope	6	11.1	0.29	2.70%	0.5% to 8.3%					7209	50+83.14	-28.87	610.27
7208	7209	Ramp Running Slope	6	2.8	0.16	5.80%	0.5% to 8.3%					7210	50+88.69	-27.36	610.14
7209	7219	Ramp Cross Slope	6	11.9	-0.08	-0.70%	0.1% to 2.0%					7211	50+89.69	-27.49	610.11
7209	7210	Ramp Running Slope	6	5.7	-0.14	-2.40%	0.5% to 8.3%					7212	50+95.67	-28.21	610.19
7210	7211	Ramp Running Slope	6	1.0	-0.02	-2.30%	0.5% to 8.3%					7213	51+05.34	-28.98	610.73
7211	7218	Ramp Cross Slope	6	5.7	-0.09	-1.50%	0.1% to 2.0%					7214	51+16.20	-29.25	610.90
7211	7212	Landing/Turning Space	6	6.0	0.08	1.30%	0.1% to 2.0%					7215	51+16.20	-22.70	610.88
7212	7217	Ramp Cross Slope	6	6.5	-0.10	-1.50%	0.1% to 2.0%					7216	51+05.85	-22.42	610.63
7212	7213	Ramp Running Slope	6	9.7	0.54	5.50%	0.5% to 8.3%					7217	50+96.62	-21.77	610.09
7213	7214	Sidewalk Running Slope	4	10.9	0.17	1.60%	0.5% to 5.0%					7218	50+90.76	-21.89	610.03
7213	7216	Ramp Cross Slope	6	6.6	-0.10	-1.60%	0.1% to 2.0%	Yes				7219	50+72.18	-24.14	610.19
7214	7215	Match Existing Cross Slope	4	6.6	-0.02	-0.40%	Match Existing					7220	50+64.55	-27.87	610.05
7215	7216	Sidewalk Running Slope	4	10.4	-0.25	-2.40%	0.5% to 5.0%					7221	50+62.24	-33.82	609.63
7216	7217	Ramp Running Slope	6	9.3	-0.53	-5.70%	0.5% to 8.3%								
7217	7218	Crosswalk Cross Slope - No Yield Condition	6	5.9	-0.06	-1.10%	0.0% to 5.0%								
7218	7219	Ramp Running Slope	6	18.7	0.17	0.90%	0.5% to 8.3%								
7219	7220	Ramp Running Slope	6	8.5	-0.15	-1.70%	0.5% to 8.3%								
7220	7221	Ramp Running Slope	6	6.4	-0.42	-6.60%	0.5% to 8.3%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
7301	7302	Ramp Cross Slope	6	1.3	0.02	1.50%	0.1% to 2.0%					7301	51+11.01	22.70	610.90
7301	7318	Ramp Running Slope	6	6.5	-0.42	-6.40%	0.5% to 8.3%					7302	51+11.08	24.00	610.92
7302	7303	Sidewalk Running Slope	4	5.4	0.04	0.80%	0.5% to 5.0%					7303	51+16.49	23.78	610.96
7303	7304	Match Existing Cross Slope	4	4.1	0.05	1.20%	Match Existing					7304	51+16.63	27.84	611.01
7304	7305	Sidewalk Running Slope	4	5.3	-0.03	-0.60%	0.5% to 5.0%					7305	51+11.30	27.95	610.98
7305	7302	Ramp Cross Slope	6	4.0	-0.06	-1.50%	0.1% to 2.0%					7306	51+04.99	28.35	610.54
7305	7306	Ramp Running Slope	6	6.3	-0.43	-6.90%	0.5% to 8.3%					7307	50+96.27	38.93	610.44
7306	7307	Landing/Turning Space	6	13.7	-0.10	-0.70%	0.1% to 2.0%					7308	50+97.76	50.73	611.11
7307	7308	Ramp Running Slope	6	11.9	0.67	5.60%	0.5% to 8.3%					7309	50+97.28	50.82	611.10
7307	7316	Ramp Cross Slope	6	3.3	-0.06	-1.90%	0.1% to 2.0%	Yes				7310	50+97.92	55.78	610.99
7308	7309	Ramp Cross Slope	6	0.6	-0.01	-1.60%	0.1% to 2.0%	Yes				7311	50+95.01	56.39	610.93
7309	7310	Sidewalk Running Slope	4	5.0	-0.11	-2.20%	0.5% to 5.0%					7312	50+94.40	51.45	611.05
7310	7311	Match Existing Cross Slope	4	4.0	-0.07	-1.70%	Match Existing					7313	50+92.78	51.83	611.01
7311	7312	Sidewalk Running Slope	4	5.0	0.12	2.40%	0.5% to 5.0%					7314	50+92.65	51.13	610.98
7312	7309	Ramp Cross Slope	6	3.9	0.06	1.50%	0.1% to 2.0%					7315	50+92.32	45.25	610.67
7312	7313	Ramp Cross Slope	6	2.1	-0.03	-1.50%	0.1% to 2.0%					7316	50+93.01	39.63	610.38
7313	7316	Ramp Running Slope	6	12.2	-0.63	-5.20%	0.5% to 8.3%					7317	50+99.50	27.67	610.45
7316	7317	Crosswalk Cross Slope - Yield Condition	6	13.6	0.07	0.50%	0.0% to 2.0%					7318	51+04.64	24.21	610.48
7317	7318	Crosswalk Cross Slope - No Yield Condition	6	6.2	0.03	0.50%	0.0% to 5.0%								
7401	7402	Ramp Running Slope	6	5.6	-0.05	-1.00%	0.5% to 8.3%					7401	50+53.21	31.97	610.13
7401	7414	Ramp Cross Slope	6	2.3	0.04	1.50%	0.1% to 2.0%					7402	50+58.71	32.90	610.08
7402	7403	Ramp Running Slope	6	6.5	-0.05	-0.90%	0.5% to 8.3%					7403	50+62.17	38.35	610.02
7403	7404	Ramp Running Slope	6	3.0	-0.02	-0.80%	0.5% to 8.3%					7404	50+62.95	41.20	610.00
7404	7405	Crosswalk Cross Slope - Yield Condition	6	4.9	0.07	1.50%	0.0% to 2.0%					7405	50+64.20	45.94	610.07
7404	7409	Ramp Cross Slope	6	3.3	0.06	1.80%	0.1% to 2.0%	Yes				7406	50+66.08	53.56	610.32
7405	7406	Ramp Running Slope	6	7.8	0.25	3.10%	0.5% to 8.3%					7407	50+63.14	54.77	610.39
7405	7408	Ramp Cross Slope	6	3.2	0.06	1.90%	0.1% to 2.0%	Yes				7408	50+61.21	47.19	610.13
7406	7407	Match Existing Cross Slope	6	3.2	0.07	2.30%	Match Existing					7409	50+59.94	42.46	610.06
7407	7408	Ramp Running Slope	6	7.8	-0.26	-3.30%	0.5% to 8.3%					7410	50+57.85	39.15	610.16
7408	7409	Landing/Turning Space	6	4.9	-0.08	-1.50%	0.1% to 2.0%					7411	50+54.93	38.82	610.24
7409	7410	Ramp Running Slope	6	3.9	0.10	2.50%	0.5% to 8.3%					7412	50+51.09	40.30	610.01
7410	7411	Ramp Running Slope	6	2.9	0.08	2.80%	0.5% to 8.3%					7413	50+49.88	35.77	609.96
7411	7412	Sidewalk Running Slope	4	4.1	-0.23	-5.50%	0.5% to 6.5%				Slope required to match existing conditions	7414	50+53.79	34.24	610.17
7412	7413	Match Existing Cross Slope	4	4.7	-0.06	-1.20%	Match Existing								
7413	7414	Sidewalk Running Slope	4	4.2	0.21	5.00%	0.5% to 5.0%	Yes			Slope required to match existing conditions				
7411	7414	Ramp Cross Slope	6	4.7	-0.07	-1.50%	0.1% to 2.0%								

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LEGEND

	CURB RAMP	(8.3% max long. slope, 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope, 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

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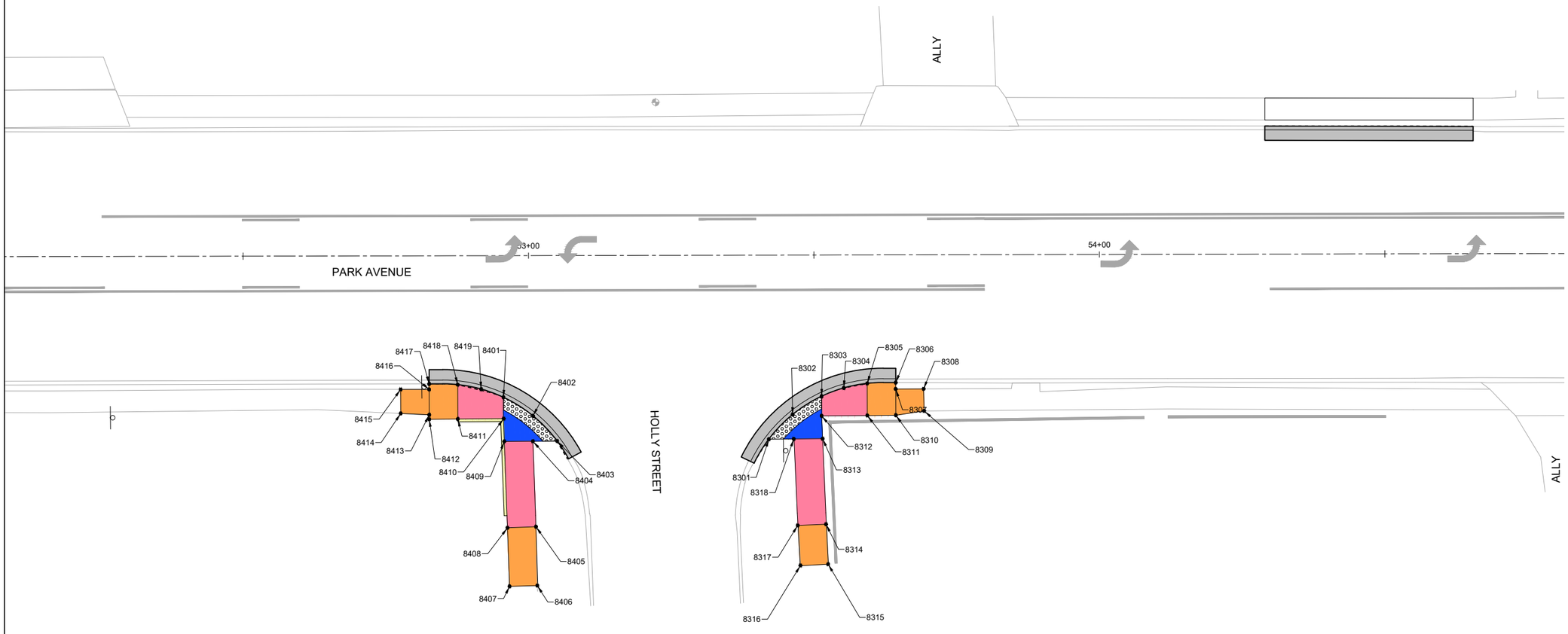
SCALE IN FEET



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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
8301	8302	Crosswalk Cross Slope - Yield Condition	6	6.0	0.02	0.30%	0.0% to 2.0%					8301	53+42.05	32.26	613.999
8301	8318	Landing/Turning Space	6	4.4	0.07	1.50%	0.1% to 2.0%					8302	53+46.22	27.96	614.015
8302	8303	Crosswalk Cross Slope - No Yield Condition	6	6.0	0.01	0.30%	0.0% to 5.0%					8303	53+51.29	24.77	614.03
8303	8305	Ramp Running Slope	6	8.3	0.43	5.20%	0.5% to 8.3%					8304	53+55.19	23.31	614.245
8303	8312	Ramp Cross Slope	6	3.4	0.05	1.50%	0.1% to 2.0%					8305	53+59.29	22.52	614.461
8305	8306	Sidewalk Running Slope	4	5.0	0.1	2.00%	0.5% to 5.0%					8306	53+64.29	22.39	614.56
8305	8311	Ramp Cross Slope	6	5.6	0.08	1.50%	0.1% to 2.0%					8307	53+64.28	23.51	614.577
8306	8307	Sidewalk Cross Slope	4	1.1	0.02	1.50%	0.5% to 2.0%					8308	53+69.17	23.5	614.689
8307	8308	Sidewalk Running Slope	4	4.9	0.11	2.30%	0.5% to 5.0%					8309	53+69.25	27.36	614.824
8308	8309	Match Existing Cross Slope	4	3.9	0.13	3.50%	Match Existing					8310	53+64.29	28.11	614.646
8309	8310	Sidewalk Running Slope	4	5.0	-0.18	-3.50%	0.5% to 5.0%					8311	53+59.29	28.14	614.545
8310	8311	Sidewalk Running Slope	4	5.0	-0.1	-2.00%	0.5% to 5.0%					8312	53+51.29	28.19	614.081
8307	8310	Sidewalk Cross Slope	4	4.6	0.07	1.50%	0.5% to 2.0%					8313	53+51.45	32.19	614.141
8311	8312	Ramp Running Slope	6	8.0	-0.46	-5.80%	0.5% to 8.3%					8314	53+52.02	47.19	615.266
8312	8313	Landing/Turning Space	6	4.0	0.06	1.50%	0.1% to 2.0%					8315	53+52.38	54.19	616.076
8313	8318	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%					8316	53+47.53	54.4	615.995
8313	8314	Ramp Running Slope	6	15.0	1.13	7.50%	0.5% to 8.3%	Yes				8317	53+47.06	47.39	615.204
8314	8315	Sidewalk Running Slope	4	7.0	0.81	11.60%	0.5% to 12.6%				Slope required to match existing conditions	8318	53+46.41	32.23	614.065
8315	8316	Match Existing Cross Slope	4	4.8	-0.08	-1.70%	Match Existing								
8316	8317	Sidewalk Running Slope	4	7.0	-0.79	-11.30%	0.5% to 12.3%				Slope required to match existing conditions				
8314	8317	Ramp Cross Slope	6	5.0	-0.06	-1.20%	0.1% to 2.0%								
8317	8318	Ramp Running Slope	6	15.2	-1.14	-7.50%	0.5% to 8.3%	Yes							
8401	8402	Crosswalk Cross Slope - Yield Condition	6	6.1	0.06	0.90%	0.0% to 2.0%					8401	52+95.56	24.83	613.189
8401	8410	Ramp Cross Slope	6	3.7	0.06	1.50%	0.1% to 2.0%					8402	53+00.73	28.09	613.247
8401	8419	Ramp Running Slope	6	4.2	0.09	2.10%	0.5% to 8.3%					8403	53+04.96	32.51	613.305
8402	8403	Crosswalk Cross Slope - No Yield Condition	6	6.1	0.06	0.90%	0.0% to 5.0%					8404	53+00.70	32.53	613.306
8402	8404	Landing/Turning Space	6	4.4	0.06	1.30%	0.1% to 2.0%					8405	53+01.22	47.52	614.43
8402	8410	Landing/Turning Space	6	5.2	0	0.00%	0.1% to 2.0%					8406	53+01.43	57.84	615.7
8403	8404	Landing/Turning Space	6	4.3	0	0.00%	0.1% to 2.0%					8407	52+96.57	57.96	615.685
8404	8405	Ramp Running Slope	6	15.0	1.12	7.50%	0.5% to 8.3%	Yes				8408	52+96.22	47.7	614.441
8404	8409	Ramp Cross Slope	6	5.0	0	0.00%	0.1% to 2.0%					8409	52+95.70	32.57	613.306
8405	8406	Sidewalk Running Slope	4	10.3	1.27	12.30%	0.5% to 13.3%				Slope required to match existing conditions	8410	52+95.60	28.57	613.245
8405	8408	Ramp Cross Slope	6	5.0	0.01	0.20%	0.1% to 2.0%					8411	52+87.57	28.61	613.462
8406	8407	Match Existing Cross Slope	4	4.9	-0.02	-0.30%	Match Existing					8412	52+82.57	28.65	613.533
8407	8408	Sidewalk Running Slope	4	10.3	-1.24	-12.10%	0.5% to 13.1%				Slope required to match existing conditions	8413	52+82.56	27.87	613.521
8408	8409	Ramp Running Slope	6	15.1	-1.13	-7.50%	0.5% to 8.3%	Yes				8414	52+77.56	27.63	613.281
8409	8410	Landing/Turning Space	4	4.0	-0.06	-1.50%	0.1% to 2.0%					8415	52+77.56	23.4	613.154
8410	8411	Ramp Running Slope	6	8.0	0.22	2.70%	0.5% to 8.3%					8416	52+82.56	23.42	613.455
8411	8412	Sidewalk Running Slope	4	5.0	0.07	1.40%	0.5% to 5.0%					8417	52+82.56	22.45	613.416
8411	8418	Ramp Cross Slope	6	6.0	-0.1	-1.60%	0.1% to 2.0%	Yes				8418	52+87.56	22.59	613.365
8412	8413	Sidewalk Cross Slope	4	0.8	-0.01	-1.50%	0.5% to 2.0%					8419	52+91.66	23.38	613.277
8413	8414	Sidewalk Running Slope	4	5.0	-0.24	-4.80%	0.5% to 5.0%	Yes							
8413	8416	Sidewalk Cross Slope	4	4.5	-0.07	-1.50%	0.5% to 2.0%								
8414	8415	Match Existing Cross Slope	4	4.2	-0.13	-3.00%	Match Existing								
8415	8416	Sidewalk Running Slope	4	5.0	0.3	6.00%	0.5% to 7%				Slope required to match existing conditions				
8416	8417	Sidewalk Cross Slope	4	1.0	-0.04	-4.00%	0.5% to 5%				Slope required to match existing conditions				
8417	8418	Sidewalk Running Slope	4	5.0	-0.05	-1.00%	0.5% to 5.0%								
8418	8419	Ramp Running Slope	6	4.2	-0.09	-2.10%	0.5% to 8.3%								

LEGEND

CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
TURNING SPACE	(2.0% max slope)
PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
NON-TRAVERSABLE FLARE	(10:1 > slope allowed)
TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

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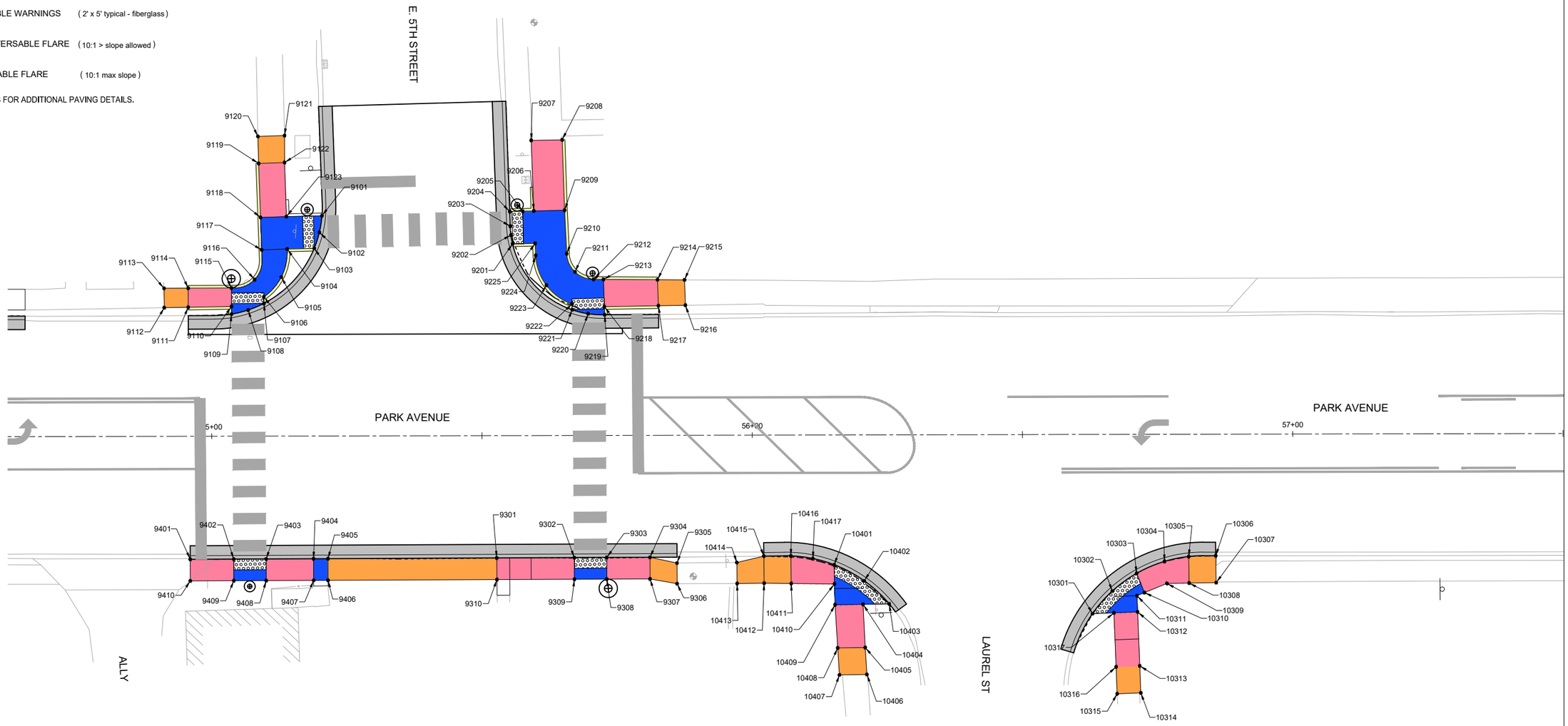
SCALE IN FEET



SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER	S.16

Plot Date: 3/31/2020 9:29 AM
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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
9101	9102	Crosswalk Cross Slope - No Yield Condition	6	3.1	0.03	1.10%	0.0% to 5.0%					9101	55+20.47	-40.76	616.03
9101	9123	Ramp Running Slope	6	6.6	0.46	7.00%	0.5% to 8.3%					9102	55+19.99	-37.68	616.063
9102	9103	Crosswalk Cross Slope - No Yield Condition	6	3.1	0.03	1.00%	0.0% to 5.0%					9103	55+19.03	-34.73	616.095
9103	9104	Ramp Running Slope	6	5.0	0.3	6.10%	0.5% to 8.3%					9104	55+14.02	-34.62	616.4
9104	9105	Landing/Turning Space	4	5.3	-0.06	-1.10%	0.1% to 2.0%					9105	55+12.93	-29.44	616.343
9104	9117	Landing/Turning Space	4	4.7	0.07	1.50%	0.1% to 2.0%					9106	55+09.69	-25.76	616.246
9104	9123	Landing/Turning Space	6	6.0	0.09	1.50%	0.1% to 2.0%					9107	55+09.70	-24.56	616.228
9105	9106	Landing/Turning Space	4	4.9	-0.1	-2.00%	0.1% to 2.0%	Yes			Proposed slope is maximum allowed	9108	55+06.79	-23.34	616.229
9106	9107	Landing/Turning Space	6	1.2	-0.02	-1.50%	0.1% to 2.0%					9109	55+03.71	-22.59	616.23
9107	9108	Landing/Turning Space	6	3.2	0	0.00%	0.1% to 2.0%					9110	55+03.70	-24	616.251
9107	9110	Landing/Turning Space	6	6.0	0.02	0.40%	0.1% to 2.0%					9111	54+95.70	-23.87	616.59
9108	9109	Landing/Turning Space	6	3.2	0	0.00%	0.1% to 2.0%					9112	54+91.27	-23.81	616.531
9109	9110	Landing/Turning Space	6	1.4	0.02	1.50%	0.1% to 2.0%					9113	54+91.22	-27.39	616.623
9110	9111	Ramp Running Slope	6	8.0	0.34	4.20%	0.5% to 8.3%					9114	54+95.70	-27.4	616.643
9110	9115	Ramp Cross Slope	6	3.4	0.05	1.50%	0.1% to 2.0%					9115	55+03.70	-27.41	616.302
9111	9112	Sidewalk Running Slope	4	4.4	-0.06	-1.30%	0.5% to 5.0%					9116	55+08.00	-28.96	616.377
9111	9114	Ramp Cross Slope	6	3.5	0.05	1.50%	0.1% to 2.0%					9117	55+09.32	-34.46	616.471
9112	9113	Match Existing Cross Slope	4	3.6	0.09	2.60%	Match Existing					9118	55+09.11	-40.46	616.562
9113	9114	Sidewalk Running Slope	4	4.5	0.02	0.40%	0.5% to 5.0%					9119	55+08.78	-50.45	617.193
9114	9115	Ramp Running Slope	6	8.0	-0.34	-4.30%	0.5% to 8.3%					9120	55+08.66	-55.45	617.174
9115	9116	Landing/Turning Space	4	4.6	0.07	1.60%	0.1% to 2.0%	Yes				9121	55+13.58	-55.62	617.344
9116	9117	Landing/Turning Space	4	5.7	0.09	1.70%	0.1% to 2.0%	Yes				9122	55+13.56	-50.62	617.265
9117	9118	Landing/Turning Space	4	6.0	0.09	1.50%	0.1% to 2.0%					9123	55+13.90	-40.62	616.49
9118	9119	Ramp Running Slope	6	10.0	0.63	6.30%	0.5% to 8.3%								
9118	9123	Ramp Cross Slope	6	4.8	-0.07	-1.50%	0.1% to 2.0%								
9119	9120	Sidewalk Running Slope	4	5.0	-0.02	-0.40%	0.5% to 5.0%								
9119	9122	Ramp Cross Slope	6	4.8	0.07	1.50%	0.1% to 2.0%								
9120	9121	Match Existing Cross Slope	4	4.9	0.17	3.40%	Match Existing								
9121	9122	Sidewalk Running Slope	4	5.0	-0.08	-1.60%	0.5% to 5.0%								
9122	9123	Ramp Running Slope	6	10.0	-0.77	-7.70%	0.5% to 8.3%	Yes							
9201	9202	Crosswalk Cross Slope - No Yield Condition	6	1.7	0.01	0.80%	0.0% to 5.0%					9201	55+55.74	-35.48	616.15
9201	9225	Ramp Running Slope	6	4.2	0.21	5.00%	0.5% to 8.3%					9202	55+55.44	-37.11	616.164
9202	9203	Crosswalk Cross Slope - No Yield Condition	6	1.7	0.01	0.80%	0.0% to 5.0%					9203	55+55.31	-38.76	616.177
9203	9204	Crosswalk Cross Slope - No Yield Condition	6	2.7	0.02	0.80%	0.0% to 5.0%					9204	55+55.22	-41.47	616.2
9204	9205	Ramp Running Slope	6	2.4	0.12	5.10%	0.5% to 8.3%					9205	55+57.62	-41.52	616.323
9205	9206	Ramp Running Slope	6	2.1	0.1	5.00%	0.5% to 8.3%					9206	55+59.67	-41.56	616.426
9206	9207	Ramp Running Slope	6	13.1	0.51	3.90%	0.5% to 8.3%					9207	55+59.22	-54.63	616.937
9206	9209	Ramp Cross Slope	6	5.7	0.08	1.50%	0.1% to 2.0%					9208	55+64.94	-54.72	616.941
9207	9208	Match Existing Cross Slope	4	5.7	0	0.10%	Match Existing					9209	55+65.36	-41.68	616.511
9208	9209	Ramp Running Slope	6	13.0	-0.43	-3.30%	0.5% to 8.3%					9210	55+65.73	-33.65	616.528
9209	9210	Landing/Turning Space	4	8.0	0.02	0.20%	0.1% to 2.0%					9211	55+67.26	-30.28	616.536
9210	9224	Landing/Turning Space	4	5.7	-0.17	-2.90%	0.1% to 3.9%					9212	55+70.69	-28.88	616.544
9210	9211	Landing/Turning Space	4	3.7	0.01	0.20%	0.1% to 2.0%					9213	55+72.52	-28.86	616.548
9211	9212	Landing/Turning Space	4	3.7	0.01	0.20%	0.1% to 2.0%					9214	55+82.53	-28.79	616.86
9211	9223	Landing/Turning Space	4	5.8	-0.14	-2.50%	0.1% to 3.5%					9215	55+87.53	-28.76	616.878
9212	9213	Landing/Turning Space	6	1.8	0	0.20%	0.1% to 2.0%					9216	55+87.68	-24.05	616.769
9213	9214	Ramp Running Slope	6	10.0	0.31	3.10%	0.5% to 8.3%					9217	55+82.68	-23.98	616.787
9213	9218	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%					9218	55+72.68	-23.83	616.472
9214	9215	Sidewalk Running Slope	4	5.0	0.02	0.40%	0.5% to 5.0%					9219	55+72.73	-22.33	616.45
9214	9217	Ramp Cross Slope	6	4.8	-0.07	-1.50%	0.1% to 2.0%					9220	55+69.69	-22.53	616.4
9215	9216	Match Existing Cross Slope	4	4.7	-0.11	-2.30%	Match Existing					9221	55+66.72	-23.27	616.35
9216	9217	Sidewalk Running Slope	4	5.0	0.02	0.40%	0.5% to 5.0%					9222	55+66.70	-24.35	616.366
9217	9218	Ramp Running Slope	6	10.0	-0.32	-3.10%	0.5% to 8.3%					9223	55+61.98	-27.82	616.393
9218	9219	Landing/Turning Space	6	1.5	-0.02	-1.50%	0.1% to 2.0%					9224	55+60.01	-33.34	616.36
9218	9221	Landing/Turning Space	6	6.0	-0.12	-2.00%	0.1% to 2.0%	Yes			Proposed slope is maximum allowed	9225	55+59.91	-35.57	616.359
9219	9220	Crosswalk Cross Slope - Yield Condition	6	3.1	-0.05	-1.60%	0.0% to 2.0%								
9220	9221	Crosswalk Cross Slope - Yield Condition	6	3.1	-0.05	-1.60%	0.0% to 2.0%								
9221	9222	Landing/Turning Space	6	1.1	0.02	1.50%	0.1% to 2.0%								
9222	9223	Landing/Turning Space	4	5.9	0.03	0.50%	0.1% to 2.0%								
9223	9224	Landing/Turning Space	4	5.9	-0.03	-0.60%	0.1% to 2.0%								
9221	9225	Landing/Turning Space	4	14.1	0.01	0.10%	0.1% to 2.0%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
9301	9302	Ramp Running Slope	6	14.4	-0.55	-3.80%	0.5% to 8.3%					9301	55+52.68	22.64	617.07
9301	9310	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					9302	55+67.03	22.6	616.52
9302	9303	Crosswalk Cross Slope - Yield Condition	6	6.0	-0.04	-0.70%	0.0% to 2.0%					9303	55+73.03	22.59	616.48
9302	9309	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					9304	55+81.03	22.57	616.93
9303	9304	Ramp Running Slope	6	8.0	0.45	5.60%	0.5% to 8.3%					9305	55+86.04	23.64	616.857
9303	9308	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					9306	55+86.05	27.45	616.982
9304	9305	Sidewalk Running Slope	4	5.1	-0.07	-1.40%	0.5% to 5.0%					9307	55+81.04	26.57	616.989
9304	9307	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					9308	55+73.04	26.58	616.54
9305	9306	Match Existing Cross Slope	4	3.8	0.13	3.30%	Match Existing					9309	55+67.04	26.6	616.581
9306	9307	Sidewalk Running Slope	4	5.1	0.01	0.10%	0.5% to 5.0%					9310	55+52.71	26.63	617.13
9307	9308	Ramp Running Slope	6	8.0	-0.45	-5.60%	0.5% to 8.3%								
9308	9309	Landing/Turning Space	6	6.0	0.04	0.70%	0.1% to 2.0%								
9309	9310	Ramp Running Slope	6	14.3	0.55	3.80%	0.5% to 8.3%								
9401	9402	Ramp Running Slope	6	8.0	-0.51	-6.30%	0.5% to 8.3%					9401	54+95.98	22.77	616.807
9401	9410	Match Existing Cross Slope	4	4.0	0.06	1.50%	Match Existing					9402	55+04.02	22.75	616.3
9402	9403	Crosswalk Cross Slope - Yield Condition	6	6.0	0.05	0.80%	0.0% to 2.0%					9403	55+10.02	22.74	616.35
9402	9409	Ramp Cross Slope	6	4.0	0.07	1.60%	0.1% to 2.0%	Yes				9404	55+18.79	22.71	616.97
9403	9404	Ramp Running Slope	6	8.8	0.62	7.10%	0.5% to 8.3%					9405	55+21.46	22.71	616.98
9403	9408	Ramp Cross Slope	6	4.0	0.06	1.60%	0.1% to 2.0%	Yes				9406	55+21.47	26.71	617.017
9404	9405	Landing/Turning Space	4	2.7	0.01	0.40%	0.1% to 2.0%					9407	55+18.80	26.71	617.03
9404	9407	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					9408	55+10.03	26.73	616.412
9405	9406	Sidewalk Cross Slope	4	4.0	0.04	0.90%	0.5% to 2.0%					9409	55+04.03	26.75	616.366
9406	9407	Landing/Turning Space	4	2.7	0.01	0.50%	0.1% to 2.0%					9410	54+95.98	26.76	616.867
9407	9408	Ramp Running Slope	6	8.8	-0.62	-7.00%	0.5% to 8.3%								
9408	9409	Landing/Turning Space	6	6.0	-0.05	-0.80%	0.1% to 2.0%								
9409	9410	Ramp Running Slope	6	8.1	0.5	6.20%	0.5% to 8.3%								
10301	10302	Crosswalk Cross Slope - No Yield Condition	6	5.6	0	0.00%	0.0% to 5.0%					10301	56+62.90	33.17	615.781
10301	10317	Landing/Turning Space	6	4.0	0.06	1.50%	0.1% to 2.0%					10302	56+66.56	29	615.779
10302	10303	Crosswalk Cross Slope - Yield Condition	6	5.6	0	0.00%	0.0% to 2.0%					10303	56+71.06	25.74	615.778
10303	10304	Ramp Running Slope	6	5.6	0.2	3.60%	0.5% to 8.3%					10304	56+76.22	23.53	615.978
10303	10311	Ramp Cross Slope	6	4.1	0.08	1.90%	0.1% to 2.0%	Yes			Proposed slope is maximum allowed	10305	56+80.70	22.63	616.18
10304	10305	Ramp Running Slope	6	4.6	0.2	4.40%	0.5% to 8.3%					10306	56+85.70	22.49	616.104
10304	10309	Ramp Cross Slope	6	4.1	0.01	0.20%	0.1% to 2.0%					10307	56+85.77	27.47	616.095
10305	10306	Sidewalk Running Slope	4	5.0	-0.08	-1.50%	0.5% to 5.0%					10308	56+80.77	27.54	616.17
10305	10308	Ramp Cross Slope	6	4.9	-0.01	-0.20%	0.1% to 2.0%					10309	56+76.66	27.59	615.988
10306	10307	Match Existing Cross Slope	4	5.0	-0.01	-0.20%	Match Existing					10310	56+72.50	29.29	615.835
10307	10308	Sidewalk Running Slope	4	5.0	0.07	1.50%	0.5% to 5.0%					10311	56+71.11	29.86	615.858
10308	10309	Ramp Running Slope	6	4.1	-0.18	-4.40%	0.5% to 8.3%					10312	56+71.23	32.85	615.905
10309	10310	Ramp Running Slope	6	4.5	-0.15	-3.40%	0.5% to 8.3%					10313	56+71.60	42.84	616.895
10310	10311	Landing/Turning Space	6	1.5	0.02	1.50%	0.1% to 2.0%					10314	56+71.79	47.84	617.39
10311	10312	Landing/Turning Space	6	3.0	0.05	1.60%	0.1% to 2.0%	Yes				10315	56+67.41	48	617.412
10312	10313	Ramp Running Slope	6	10.0	0.99	9.90%	0.5% to 10.9%				Slope required to match existing conditions	10316	56+67.23	43.01	616.887
10312	10317	Ramp Cross Slope	6	4.4	-0.06	-1.50%	0.1% to 2.0%					10317	56+66.85	33.02	615.84
10313	10314	Sidewalk Running Slope	4	5.0	0.5	9.90%	0.5% to 10.9%				Slope required to match existing conditions				
10313	10316	Ramp Cross Slope	6	4.4	-0.01	-0.20%	0.1% to 2.0%								
10314	10315	Match Existing Cross Slope	4	4.4	0.02	0.50%	Match Existing								
10315	10316	Sidewalk Running Slope	4	5.0	-0.53	-10.50%	0.5% to 11.5%				Slope required to match existing conditions				
10316	10317	Ramp Running Slope	6	10.0	-1.05	-10.50%	0.5% to 11.5%				Slope required to match existing conditions				

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
10401	10402	Crosswalk Cross Slope - Yield Condition	6	6.3	0.05	0.90%	0.0% to 2.0%					10401	56+15.11	24.03	616.2
10401	10410	Ramp Cross Slope	6	3.6	0	0.00%	0.1% to 2.0%					10402	56+20.66	27.01	616.255
10401	10417	Ramp Running Slope	6	4.1	0.3	7.30%	0.5% to 8.3%					10403	56+25.28	31.28	616.117
10402	10403	Crosswalk Cross Slope - No Yield Condition	6	6.3	-0.14	-2.20%	0.0% to 5.0%					10404	56+20.43	31.35	616.188
10402	10404	Landing/Turning Space	6	4.3	-0.07	-1.50%	0.1% to 2.0%					10405	56+20.82	39.34	616.588
10402	10410	Landing/Turning Space	6	5.5	-0.05	-1.00%	0.1% to 2.0%					10406	56+21.12	44.34	616.663
10403	10404	Landing/Turning Space	6	4.9	0.07	1.50%	0.1% to 2.0%					10407	56+16.04	44.4	616.741
10404	10405	Ramp Running Slope	6	8.0	0.4	5.00%	0.5% to 8.3%					10408	56+15.74	39.41	616.666
10404	10409	Landing/Turning Space	6	5.2	0.08	1.50%	0.1% to 2.0%					10409	56+15.25	31.42	616.266
10405	10406	Sidewalk Running Slope	4	5.0	0.08	1.50%	0.5% to 5.0%					10410	56+15.15	27.58	616.2
10405	10408	Ramp Cross Slope	6	5.1	0.08	1.50%	0.1% to 2.0%					10411	56+07.14	27.47	616.82
10406	10407	Match Existing Cross Slope	4	5.1	0.08	1.50%	Match Existing					10412	56+02.14	27.4	616.895
10407	10408	Sidewalk Running Slope	4	5.0	-0.07	-1.50%	0.5% to 5.0%					10413	55+97.14	27.44	616.923
10408	10409	Ramp Running Slope	6	8.0	-0.4	-5.00%	0.5% to 8.3%					10414	55+97.11	23.57	616.805
10409	10410	Landing/Turning Space	6	3.8	-0.07	-1.70%	0.1% to 2.0%	Yes				10415	56+02.10	22.4	616.82
10410	10411	Ramp Running Slope	6	8.0	0.62	7.70%	0.5% to 8.3%	Yes				10416	56+07.10	22.38	616.8
10411	10412	Sidewalk Running Slope	4	5.0	0.07	1.50%	0.5% to 5.0%					10417	56+11.17	22.87	616.5
10411	10416	Ramp Cross Slope	6	5.1	-0.02	-0.40%	0.1% to 2.0%								
10412	10413	Sidewalk Running Slope	4	5.0	0.03	0.60%	0.5% to 5.0%								
10412	10415	Sidewalk Cross Slope	4	5.0	-0.07	-1.50%	0.5% to 2.0%								
10413	10414	Match Existing Cross Slope	4	3.9	-0.12	-3.00%	Match Existing								
10414	10415	Sidewalk Running Slope	4	5.1	0.02	0.30%	0.5% to 5.0%								
10415	10416	Sidewalk Running Slope	4	5.0	-0.02	-0.40%	0.5% to 5.0%								
10416	10417	Ramp Running Slope	6	4.1	-0.3	-7.30%	0.5% to 8.3%								

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LEGEND

CURB RAMP	(8.3% max long. slope, 2.0% max cross slope)
TURNING SPACE	(2.0% max slope)
PCC SIDEWALK, 6"	(5.0% max long. slope, 2.0% max cross slope)
DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
NON-TRAVERSABLE FLARE	(10:1 > slope allowed)
TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

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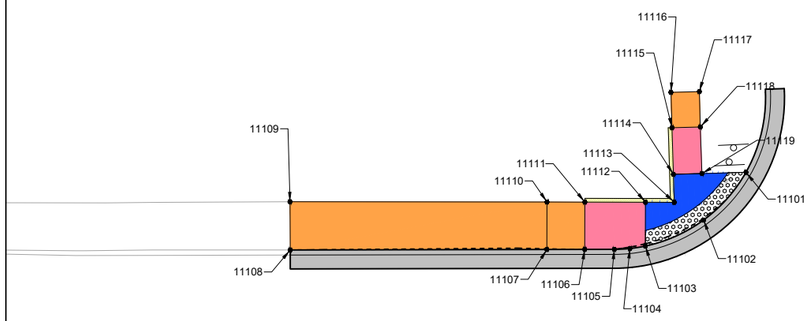
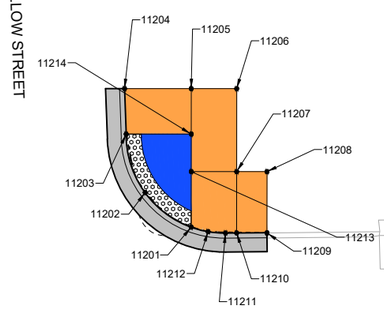
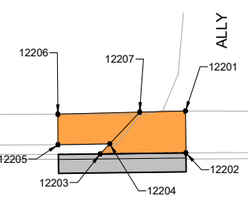
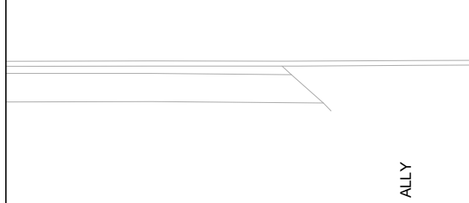
SCALE IN FEET

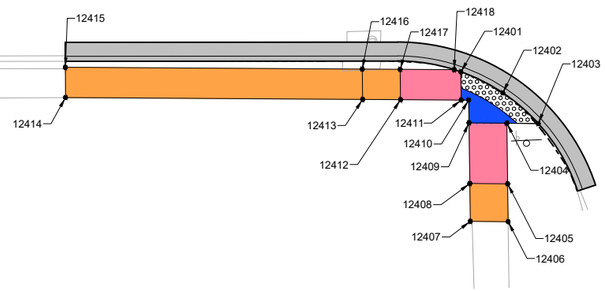


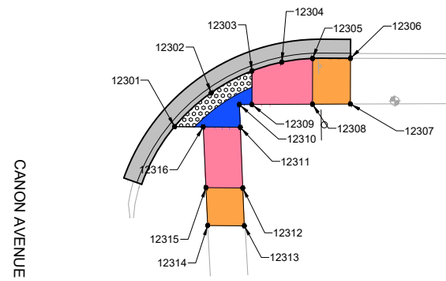












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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.20

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
11101	11102	Crosswalk Cross Slope - No Yield Condition	6	8.4	-0.07	-0.80%	0.0% to 5.0%					11101	58+49.11	-32.69	614.69
11101	11119	Landing/Turning Space	6	5.8	0.04	0.70%	0.1% to 2.0%					11102	58+43.51	-26.41	614.625
11102	11103	Crosswalk Cross Slope - Yield Condition	6	8.4	-0.07	-0.80%	0.0% to 2.0%					11103	58+35.82	-22.99	614.56
11103	11104	Ramp Running Slope	6	2.1	0.14	6.70%	0.5% to 8.3%					11104	58+33.78	-22.68	614.699
11103	11112	Ramp Cross Slope	6	5.8	0.09	1.50%	0.1% to 2.0%					11105	58+31.72	-22.57	614.837
11104	11105	Ramp Running Slope	6	2.1	0.14	6.70%	0.5% to 8.3%					11106	58+27.82	-22.57	615.1
11105	11106	Ramp Running Slope	6	3.9	0.26	6.70%	0.5% to 8.3%					11107	58+22.82	-22.57	615.025
11106	11107	Sidewalk Running Slope	4	5.0	-0.08	-1.50%	0.5% to 5.0%					11108	57+88.94	-22.57	615.271
11106	11111	Ramp Cross Slope	6	6.2	0.09	1.50%	0.1% to 2.0%					11109	57+88.92	-28.93	615.269
11107	11108	Sidewalk Running Slope	4	33.9	0.25	0.70%	0.5% to 5.0%					11110	58+22.84	-28.83	615.119
11107	11110	Sidewalk Cross Slope	4	6.3	0.09	1.50%	0.5% to 2.0%					11111	58+27.84	-28.81	615.194
11108	11109	Match Existing Cross Slope	4	6.4	0	0.00%	Match Existing					11112	58+35.84	-28.77	614.647
11109	11110	Sidewalk Running Slope	4	33.9	-0.15	-0.40%	0.5% to 5.0%					11113	58+39.65	-28.76	614.704
11110	11111	Sidewalk Running Slope	4	5.0	0.07	1.50%	0.5% to 5.0%					11114	58+39.54	-32.45	614.759
11111	11112	Ramp Running Slope	6	8.0	-0.55	-6.80%	0.5% to 8.3%					11115	58+39.36	-38.6	615.231
11112	11113	Landing/Turning Space	6	3.8	0.06	1.50%	0.1% to 2.0%					11116	58+39.23	-43.27	615.301
11113	11114	Landing/Turning Space	6	3.7	0.06	1.50%	0.1% to 2.0%					11117	58+42.99	-43.35	615.271
11114	11115	Ramp Running Slope	6	6.2	0.47	7.70%	0.5% to 8.3%	Yes				11118	58+43.10	-38.69	615.201
11114	11119	Ramp Cross Slope	6	3.8	-0.03	-0.70%	0.1% to 2.0%					11119	58+43.30	-32.54	614.732
11115	11116	Sidewalk Running Slope	4	4.7	0.07	1.50%	0.5% to 5.0%								
11115	11118	Ramp Cross Slope	6	3.7	-0.03	-0.80%	0.1% to 2.0%								
11116	11117	Match Existing Cross Slope	4	3.8	-0.03	-0.80%	Match Existing								
11117	11118	Sidewalk Running Slope	4	4.7	-0.07	-1.50%	0.5% to 5.0%								
11118	11119	Ramp Running Slope	6	6.2	-0.47	-7.60%	0.5% to 8.3%	Yes							
11201	11202	Crosswalk Cross Slope - Yield Condition	6	7.6	0.06	0.80%	0.0% to 2.0%					11201	58+92.15	-23.26	614.23
11201	11212	Sidewalk Running Slope	4	2.3	0.04	1.60%	0.5% to 5.0%					11202	58+86.09	-27.84	614.288
11201	11213	Landing/Turning Space	6	7.3	0.11	1.50%	0.1% to 2.0%					11203	58+83.60	-35.56	614.35
11202	11203	Crosswalk Cross Slope - No Yield Condition	6	8.1	0.06	0.80%	0.0% to 5.0%					11204	58+83.39	-41.56	614.228
11203	11204	Sidewalk Running Slope	4	6.0	-0.12	-2.00%	0.5% to 5.0%					11205	58+92.19	-41.54	614.36
11203	11214	Landing/Turning Space	6	8.6	0.06	0.70%	0.1% to 2.0%					11206	58+98.19	-41.52	614.45
11204	11205	Match Existing Cross Slope	4	8.8	0.13	1.50%	Match Existing					11207	58+98.17	-30.57	614.452
11205	11206	Match Existing Cross Slope	4	6.0	0.09	1.50%	Match Existing					11208	59+02.17	-30.56	614.44
11205	11214	Sidewalk Cross Slope	4	6.0	0.05	0.90%	0.5% to 2.0%					11209	59+02.16	-22.48	614.519
11206	11207	Sidewalk Running Slope	4	11.0	0	0.00%	0.5% to 5.0%					11210	58+98.15	-22.48	614.33
11207	11208	Sidewalk Running Slope	4	4.0	-0.01	-0.30%	0.5% to 5.0%					11211	58+96.68	-22.47	614.306
11207	11203	Sidewalk Cross Slope	4	15.4	-0.1	-0.70%	0.5% to 2.0%					11212	58+94.38	-22.67	614.268
11207	11210	Sidewalk Cross Slope	4	8.1	-0.12	-1.50%	0.5% to 2.0%					11213	58+92.17	-30.59	614.34
11208	11209	Match Existing Cross Slope	4	8.1	0.08	1.00%	Match Existing					11214	58+92.18	-35.54	614.414
11209	11210	Sidewalk Running Slope	4	4.0	-0.19	-4.70%	0.5% to 5.0%	Yes							
11210	11211	Sidewalk Running Slope	4	1.5	-0.02	-1.60%	0.5% to 5.0%								
11211	11212	Sidewalk Running Slope	4	2.3	-0.04	-1.60%	0.5% to 5.0%								
11213	11214	Landing/Turning Space	6	5.0	0.07	1.50%	0.1% to 2.0%								
12201	12202	Match Existing Cross Slope	4	5.6	-0.08	-1.50%	Match Existing					12201	60+24.31	-28.3	613.856
12201	12207	Sidewalk Running Slope	4	6.0	0.16	2.70%	0.5% to 5.0%					12202	60+24.36	-22.75	613.772
12202	12203	Sidewalk Running Slope	4	11.3	0.27	2.40%	0.5% to 5.0%					12203	60+13.04	-22.65	614.044
12204	12207	Sidewalk Cross Slope	4	5.8	-0.07	-1.20%	0.5% to 2.0%					12204	60+14.30	-23.98	614.088
12204	12205	Sidewalk Running Slope	4	6.8	0.16	2.40%	0.5% to 5.0%					12205	60+07.48	-23.88	614.252
12205	12206	Match Existing Cross Slope	4	4.0	0.06	1.50%	Match Existing					12206	60+07.47	-27.9	614.313
12206	12207	Sidewalk Running Slope	4	10.8	-0.29	-2.70%	0.5% to 5.0%					12207	60+18.27	-28.15	614.02

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
12301	12316	Landing/Turning Space	6	3.8	0.04	1.00%	0.1% to 2.0%						12301	59+84.35	31.36	613.601
12302	12303	Crosswalk Cross Slope - Yield Condition	6	6.1	0	0.10%	0.0% to 2.0%						12302	59+89.19	26.91	613.605
12303	12304	Ramp Running Slope	6	4.1	0.23	5.60%	0.5% to 8.3%						12303	59+94.58	24.04	613.61
12303	12309	Ramp Cross Slope	6	4.4	0.04	1.00%	0.1% to 2.0%						12304	59+98.51	22.89	613.84
12304	12305	Ramp Running Slope	6	4.1	0.23	5.60%	0.5% to 8.3%						12305	60+02.58	22.39	614.07
12305	12306	Sidewalk Running Slope	4	5.0	-0.02	-0.40%	0.5% to 5.0%						12306	60+07.58	22.39	614.05
12305	12308	Ramp Cross Slope	6	6.1	0.09	1.50%	0.1% to 2.0%						12307	60+07.56	28.42	614.141
12306	12307	Match Existing Cross Slope	4	6.0	0.09	1.50%	Match Existing						12308	60+02.56	28.44	614.161
12307	12308	Sidewalk Running Slope	4	5.0	0.02	0.40%	0.5% to 5.0%						12309	59+94.56	28.46	613.655
12308	12309	Ramp Running Slope	6	8.0	-0.51	-6.30%	0.5% to 8.3%						12310	59+92.90	28.47	613.674
12309	12310	Landing/Turning Space	6	1.7	0.02	1.20%	0.1% to 2.0%						12311	59+93.02	31.47	613.71
12310	12311	Landing/Turning Space	6	3.0	0.04	1.20%	0.1% to 2.0%						12312	59+93.33	39.47	614.311
12311	12312	Ramp Running Slope	6	8.0	0.6	7.50%	0.5% to 8.3%	Yes					12313	59+93.52	44.47	614.793
12311	12316	Ramp Cross Slope	6	4.9	-0.07	-1.50%	0.1% to 2.0%						12314	59+88.68	44.41	614.719
12312	12313	Sidewalk Running Slope	4	5.0	0.48	9.60%	0.5% to 10.6%				Slope required to match existing conditions		12315	59+88.47	39.41	614.238
12312	12315	Ramp Cross Slope	6	4.9	-0.07	-1.50%	0.1% to 2.0%						12316	59+88.12	31.41	613.637
12313	12314	Match Existing Cross Slope	4	4.8	-0.07	-1.50%	Match Existing									
12314	12315	Sidewalk Running Slope	4	5.0	-0.48	-9.60%	0.5% to 10.6%				Slope required to match existing conditions					
12315	12316	Ramp Running Slope	6	8.0	-0.6	-7.50%	0.5% to 8.3%	Yes								
12401	12402	Crosswalk Cross Slope - Yield Condition	6	6.2	-0.02	-0.30%	0.0% to 2.0%									
12401	12411	Crosswalk Cross Slope - No Yield Condition	6	3.7	0.06	1.50%	0.0% to 5.0%						12401	59+34.37	24.04	613.9
12401	12418	Ramp Running Slope	6	0.9	0.07	7.10%	0.5% to 8.3%						12402	59+39.90	26.82	613.88
12402	12403	Crosswalk Cross Slope - No Yield Condition	6	6.2	-0.01	-0.20%	0.0% to 5.0%						12403	59+44.58	30.87	613.866
12403	12404	Landing/Turning Space	6	4.1	0.06	1.40%	0.1% to 2.0%						12404	59+40.43	30.82	613.922
12404	12405	Ramp Running Slope	6	8.0	0.6	7.50%	0.5% to 8.3%	Yes					12405	59+40.52	38.82	614.523
12404	12410	Ramp Cross Slope	6	5.9	0.04	0.70%	0.1% to 2.0%						12406	59+40.58	43.82	614.897
12405	12406	Sidewalk Running Slope	4	5.0	0.37	7.50%	0.5% to 8.5%				Slope required to match existing conditions		12407	59+35.59	43.76	614.972
12405	12408	Ramp Cross Slope	6	5.0	0.07	1.50%	0.1% to 2.0%						12408	59+35.53	38.76	614.598
12406	12407	Match Existing Cross Slope	4	5.0	0.07	1.50%	Match Existing						12409	59+35.44	30.76	613.997
12407	12408	Sidewalk Running Slope	4	5.0	-0.37	-7.50%	0.5% to 8.5%				Slope required to match existing conditions		12410	59+35.40	27.76	613.966
12408	12409	Ramp Running Slope	6	8.0	-0.6	-7.50%	0.5% to 8.3%	Yes					12411	59+34.41	27.75	613.956
12409	12410	Match Existing Cross Slope	6	3.0	-0.03	-1.00%	Match Existing						12412	59+26.41	27.69	614.57
12410	12411	Landing/Turning Space	6	1.0	-0.01	-1.00%	0.1% to 2.0%						12413	59+21.41	27.64	614.56
12411	12412	Ramp Running Slope	6	8.0	0.61	7.70%	0.5% to 8.3%	Yes					12414	58+82.19	27.33	614.8
12412	12413	Sidewalk Running Slope	4	5.0	-0.01	-0.20%	0.5% to 5.0%						12415	58+82.18	23.33	614.69
12412	12417	Ramp Cross Slope	6	4.0	-0.06	-1.50%	0.1% to 2.0%						12416	59+21.37	23.65	614.5
12413	12414	Sidewalk Running Slope	4	39.2	0.24	0.60%	0.5% to 5.0%						12417	59+26.37	23.69	614.51
12413	12416	Ramp Running Slope	6	4.0	-0.06	-1.50%	0.5% to 8.3%						12418	59+33.49	23.75	613.966
12414	12415	Match Existing Cross Slope	4	4.0	-0.11	-2.70%	Match Existing									
12415	12416	Sidewalk Running Slope	4	39.2	-0.19	-0.50%	0.5% to 5.0%									
12416	12417	Sidewalk Running Slope	4	5.0	0.01	0.20%	0.5% to 5.0%									
12417	12418	Ramp Running Slope	6	7.1	-0.54	-7.60%	0.5% to 8.3%	Yes								

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LEGEND

CURB RAMP	(8.3% max long. slope, 2.0% max cross slope)
TURNING SPACE	(2.0% max slope)
PCC SIDEWALK, 6"	(5.0% max long. slope, 2.0% max cross slope)
DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
NON-TRAVERSABLE FLARE	(10:1 > slope allowed)
TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET

MAGNOLIA STREET

13107 13108 13109 13101 13102 13103 13104 13105 13106

13204 13205 13206 13211 13203 13202 13201 13215 13214 13213 13212

13209 13208 13210 13207

61+00 62+00 63+00

PARK AVENUE PARK AVENUE

13416 13417 13401 13402 13403 13404 13415 13414 13413 13412 13411 13405 13410 13409 13408 13406 13407

13303 13304 13305 13307 13306 13308 13302 13301 13309 13311 13312 13310 13313 13318 13317 13314 13315 13316

ALLY

MAGNOLIA STREET

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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.23

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
13101	13109	Landing/Turning Space	6	7.4	0.11	1.50%	0.1% to 2.0%					13101	61+74.68	-27.92	612.613
13102	13103	Crosswalk Cross Slope - No Yield Condition	6	4.2	0.04	1.00%	0.0% to 5.0%					13102	61+71.15	-25.65	612.655
13103	13104	Ramp Running Slope	6	0.2	0	0.80%	0.5% to 8.3%					13103	61+67.28	-24	612.698
13103	13109	Ramp Cross Slope	6	3.9	0.03	0.70%	0.1% to 2.0%					13104	61+67.05	-23.92	612.7
13104	13105	Ramp Running Slope	6	7.8	0.55	7.10%	0.5% to 8.3%					13105	61+59.28	-23.93	613.25
13105	13106	Sidewalk Running Slope	4	47.4	0.06	0.10%	0.5% to 5.0%					13106	61+11.89	-23.99	613.312
13105	13108	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					13107	61+11.94	-27.96	613.52
13106	13107	Match Existing Cross Slope	4	4.0	0.21	5.20%	Match Existing					13108	61+59.28	-27.93	613.31
13107	13108	Sidewalk Running Slope	4	47.3	-0.21	-0.40%	0.5% to 5.0%					13109	61+67.28	-27.92	612.724
13108	13109	Ramp Running Slope	6	8.0	-0.59	-7.30%	0.5% to 8.3%								
13201	13202	Crosswalk Cross Slope - No Yield Condition	6	4.1	0.04	1.10%	0.0% to 5.0%								
13201	13204	Ramp Cross Slope	6	4.0	0.04	1.00%	0.1% to 2.0%					13201	62+29.59	-23.89	612.69
13201	13215	Ramp Running Slope	6	3.5	0.15	4.30%	0.5% to 8.3%					13202	62+25.88	-25.6	612.735
13202	13203	Crosswalk Cross Slope - No Yield Condition	6	4.1	0.04	1.10%	0.0% to 5.0%					13203	62+22.50	-27.89	612.78
13203	13204	Landing/Turning Space	6	7.1	-0.05	-0.70%	0.1% to 2.0%					13204	62+29.59	-27.89	612.73
13204	13205	Ramp Running Slope	6	6.8	0.34	5.00%	0.5% to 8.3%					13205	62+36.44	-27.88	613.073
13205	13206	Sidewalk Running Slope	4	5.0	0.05	1.00%	0.5% to 5.0%					13206	62+41.40	-27.88	613.124
13205	13214	Ramp Cross Slope	6	5.5	-0.08	-1.50%	0.1% to 2.0%					13207	63+68.68	-22.78	612.599
13206	13211	Sidewalk Running Slope	4	83.3	-0.28	-0.30%	0.5% to 5.0%					13208	63+68.77	-27.91	612.676
13206	13213	Sidewalk Cross Slope	4	5.5	-0.08	-1.50%	0.5% to 2.0%					13209	63+53.62	-27.35	612.605
13211	13212	Match Existing Cross Slope	4	5.4	-0.14	-2.60%	Match Existing					13210	63+53.57	-22.22	612.528
13212	13213	Sidewalk Running Slope	4	83.3	0.34	0.40%	0.5% to 5.0%					13211	63+24.66	-27.83	612.841
13213	13214	Sidewalk Running Slope	4	5.0	-0.05	-1.00%	0.5% to 5.0%					13212	63+24.67	-22.47	612.7
13214	13215	Ramp Running Slope	6	3.5	-0.15	-4.30%	0.5% to 8.3%					13213	62+41.40	-22.37	613.041
13207	13208	Match Existing Cross Slope	4	5.1	0.08	1.50%	Match Existing					13214	62+36.44	-22.43	612.992
13207	13210	Sidewalk Running Slope	4	15.1	-0.07	-0.50%	0.5% to 5.0%					13215	62+32.96	-22.92	612.841
13208	13209	Sidewalk Running Slope	4	15.2	-0.07	-0.50%	0.5% to 5.0%								
13209	13210	Match Existing Cross Slope	4	5.1	-0.08	-1.50%	Match Existing								
13301	13302	Crosswalk Cross Slope - No Yield Condition	6	5.3	-0.03	-0.50%	0.0% to 5.0%								
13301	13318	Landing/Turning Space	6	3.9	0.02	0.50%	0.1% to 2.0%					13301	63+04.55	31.23	612.221
13302	13303	Crosswalk Cross Slope - No Yield Condition	6	5.3	-0.03	-0.50%	0.0% to 5.0%					13302	63+08.44	27.57	612.195
13303	13304	Landing/Turning Space	6	0.3	0	0.30%	0.1% to 2.0%					13303	63+13.03	24.82	612.17
13304	13305	Landing/Turning Space	6	0.3	0	0.30%	0.1% to 2.0%					13304	63+13.30	24.7	612.171
13305	13306	Ramp Running Slope	6	7.6	0.38	5.00%	0.5% to 8.3%					13305	63+13.44	25.02	612.172
13305	13312	Ramp Cross Slope	6	3.5	0.05	1.50%	0.1% to 2.0%					13306	63+21.03	24.79	612.55
13306	13307	Sidewalk Running Slope	4	5.0	0	0.00%	0.5% to 5.0%					13307	63+26.03	24.66	612.55
13306	13311	Ramp Cross Slope	6	3.5	0.05	1.50%	0.1% to 2.0%					13308	63+31.02	24.43	612.563
13307	13308	Sidewalk Running Slope	4	5.0	0.01	0.30%	0.5% to 5.0%					13309	63+31.10	28.19	612.648
13307	13310	Sidewalk Cross Slope	4	3.6	0.05	1.50%	0.5% to 2.0%					13310	63+26.10	28.23	612.604
13308	13309	Match Existing Cross Slope	4	3.8	0.09	2.30%	Match Existing					13311	63+21.10	28.33	612.603
13309	13310	Sidewalk Running Slope	4	5.0	-0.04	-0.90%	0.5% to 5.0%					13312	63+13.10	28.49	612.225
13310	13311	Sidewalk Running Slope	4	5.0	0	0.00%	0.5% to 5.0%					13313	63+13.17	31.28	612.268
13311	13312	Ramp Running Slope	6	8.0	-0.38	-4.70%	0.5% to 8.3%					13314	63+13.36	41.55	613.012
13312	13313	Landing/Turning Space	6	2.8	0.04	1.50%	0.1% to 2.0%					13315	63+13.46	46.54	613.356
13313	13314	Ramp Running Slope	6	10.3	0.74	7.20%	0.5% to 8.3%					13316	63+08.77	46.64	613.286
13313	13318	Ramp Cross Slope	6	4.7	-0.03	-0.60%	0.1% to 2.0%					13317	63+08.67	41.64	612.958
13314	13315	Sidewalk Running Slope	4	5.0	0.34	6.90%	0.5% to 7.9%				Slope required to match existing conditions	13318	63+08.47	31.25	612.242
13314	13317	Ramp Cross Slope	6	4.7	-0.05	-1.20%	0.1% to 2.0%								
13315	13316	Match Existing Cross Slope	4	4.7	-0.07	-1.50%	Match Existing								
13316	13317	Sidewalk Running Slope	4	5.0	-0.33	-6.60%	0.5% to 7.6%				Slope required to match existing conditions				
13317	13318	Ramp Running Slope	6	10.4	-0.72	-6.90%	0.5% to 8.3%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
13401	13411	Ramp Cross Slope	6	4.0	0.04	1.00%	0.1% to 2.0%						13401	62+55.55	24.11	612.465
13401	13417	Ramp Running Slope	6	7.7	0.58	7.50%	0.5% to 8.3%	Yes					13402	62+57.64	24.12	612.433
13402	13403	Crosswalk Cross Slope - No Yield Condition	6	5.8	0.04	0.80%	0.0% to 5.0%						13403	62+62.69	26.96	612.477
13403	13404	Crosswalk Cross Slope - No Yield Condition	6	5.8	0.05	0.80%	0.0% to 5.0%						13404	62+66.81	31.04	612.524
13404	13405	Landing/Turning Space	6	6.3	0	-0.10%	0.1% to 2.0%						13405	62+60.56	30.99	612.52
13405	13406	Ramp Running Slope	6	8.0	0.6	7.50%	0.5% to 8.3%	Yes					13406	62+60.84	38.98	613.12
13405	13410	Ramp Cross Slope	6	4.8	0.01	0.30%	0.1% to 2.0%						13407	62+61.01	43.98	613.495
13406	13407	Sidewalk Running Slope	4	5.0	0.38	7.50%	0.5% to 8.5%				Slope required to match existing conditions		13408	62+56.27	44.14	613.51
13406	13409	Ramp Cross Slope	6	4.8	0.02	0.30%	0.1% to 2.0%						13409	62+56.07	39.15	613.136
13407	13408	Match Existing Cross Slope	4	4.7	0.01	0.30%	Match Existing						13410	62+55.79	31.15	612.535
13408	13409	Sidewalk Running Slope	4	5.0	-0.37	-7.50%	0.5% to 8.5%				Slope required to match existing conditions		13411	62+55.69	28.11	612.505
13409	13410	Ramp Running Slope	6	8.0	-0.6	-7.50%	0.5% to 8.3%	Yes					13412	62+47.78	28.06	613.105
13410	13411	Landing/Turning Space	6	3.0	-0.03	-1.00%	0.1% to 2.0%						13413	62+41.87	28.01	613.146
13411	13412	Ramp Running Slope	6	7.9	0.6	7.60%	0.5% to 8.3%	Yes					13414	62+36.88	28.05	613.169
13412	13413	Sidewalk Running Slope	4	5.9	0.04	0.70%	0.5% to 5.0%						13415	62+36.90	24.15	613.014
13412	13417	Ramp Cross Slope	6	4.0	-0.06	-1.50%	0.1% to 2.0%						13416	62+41.90	24.02	613.086
13413	13414	Sidewalk Running Slope	4	5.0	0.02	0.50%	0.5% to 5.0%						13417	62+47.81	24.06	613.045
13413	13416	Sidewalk Cross Slope	4	4.0	-0.06	-1.50%	0.5% to 2.0%									
13414	13415	Match Existing Cross Slope	4	3.9	-0.15	-4.00%	Match Existing									
13415	13416	Sidewalk Running Slope	4	5.0	0.07	1.40%	0.5% to 5.0%									
13416	13417	Sidewalk Running Slope	4	5.9	-0.04	-0.70%	0.5% to 5.0%									

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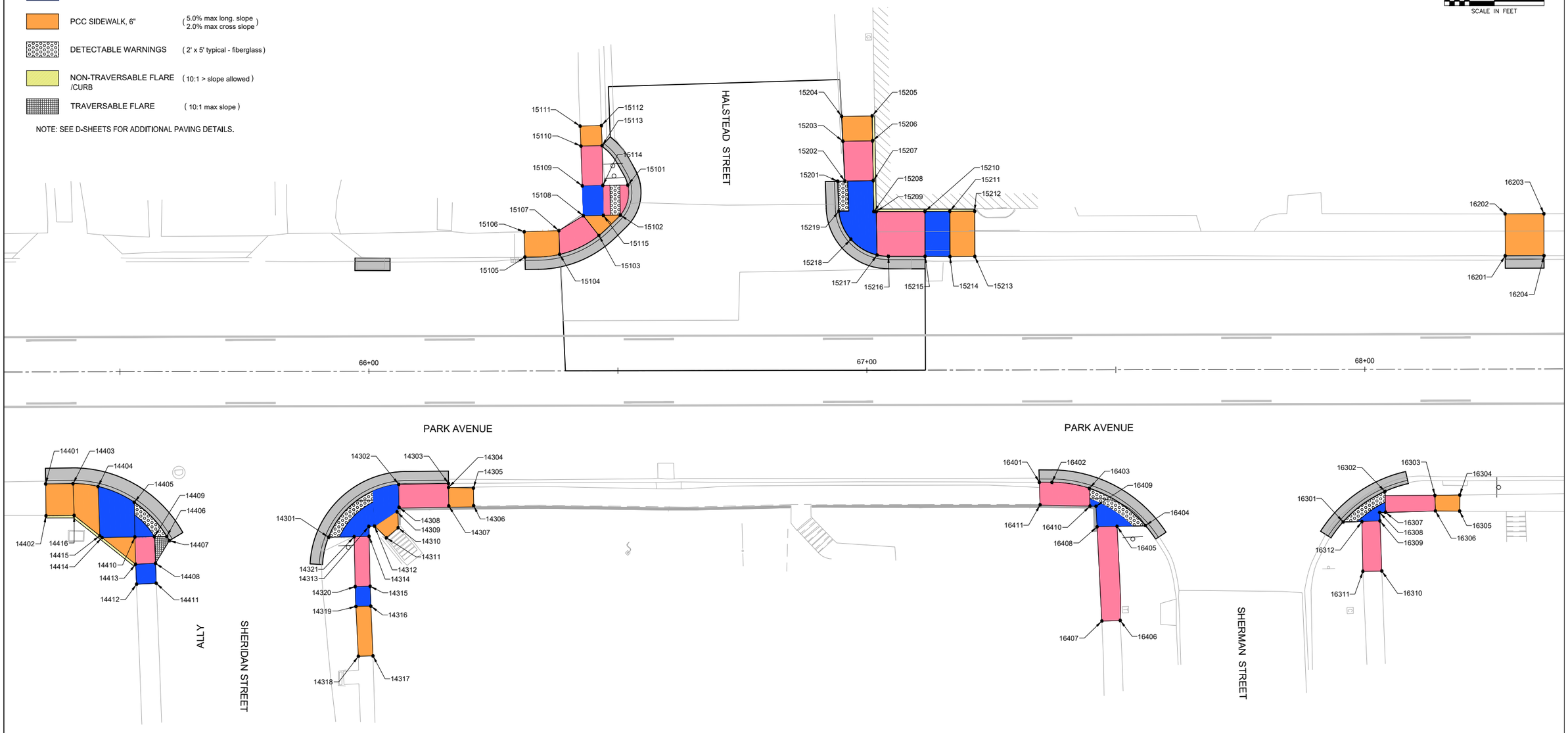
LEGEND

CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
TURNING SPACE	(2.0% max slope)
PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET



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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE+ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.26

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
14301	14302	Crosswalk Cross Slope - Yield Condition	6	17.7	-0.11	-0.60%	0.0% to 2.0%					14301	65+91.82	33.32	611.45
14301	14321	Landing/Turning Space	4	5.1	0.08	1.50%	0.1% to 2.0%					14302	66+05.94	22.72	611.35
14302	14303	Ramp Running Slope	6	10.0	0.2	2.00%	0.5% to 8.3%					14303	66+15.94	22.58	611.55
14302	14308	Landing/Turning Space	4	4.6	0.07	1.50%	0.1% to 2.0%					14304	66+15.94	23.35	611.56
14303	14304	Ramp Cross Slope	6	0.8	0.01	1.30%	0.1% to 2.0%					14305	66+20.95	23.49	611.54
14304	14305	Sidewalk Running Slope	4	5.0	-0.02	-0.50%	0.5% to 5.0%					14306	66+20.98	27.03	611.57
14304	14307	Ramp Cross Slope	6	3.7	0.04	1.10%	0.1% to 2.0%					14307	66+15.98	27.08	611.60
14305	14306	Match Existing Cross Slope	4	3.5	0.03	1.00%	Match Existing					14308	66+05.98	27.31	611.42
14306	14307	Sidewalk Running Slope	4	5.0	0.03	0.60%	0.5% to 5.0%					14309	66+05.59	28.25	611.43
14307	14308	Ramp Running Slope	6	10.0	-0.19	-1.90%	0.5% to 8.3%					14310	66+05.80	31.42	611.82
14308	14309	Landing/Turning Space	4	1.0	0.01	1.40%	0.1% to 2.0%					14311	66+03.43	33.44	611.85
14309	14310	Sidewalk Running Slope	4	3.2	0.39	12.20%	0.5% to 13.2%				Slope required to match existing conditions	14312	66+01.06	31.1	611.53
14309	14312	Landing/Turning Space	4	5.4	0.1	1.80%	0.1% to 2.0%	Yes			Slope required to match existing conditions	14313	65+99.92	31.14	611.54
14310	14311	Match Existing Cross Slope	4	3.1	0.04	1.20%	Match Existing					14314	65+99.96	33.16	611.57
14311	14312	Sidewalk Running Slope	4	3.3	-0.32	-9.70%	0.5% to 10.7%				Slope required to match existing conditions	14315	66+00.15	43.16	612.32
14312	14313	Landing/Turning Space	4	1.1	0.02	1.50%	0.1% to 2.0%					14316	66+00.29	47.16	612.38
14313	14314	Landing/Turning Space	4	2.0	0.03	1.50%	0.1% to 2.0%					14317	66+00.69	57.15	613.25
14314	14315	Ramp Running Slope	6	10.0	0.75	7.50%	0.5% to 8.3%	Yes				14318	65+97.77	57.2	613.38
14314	14321	Landing/Turning Space	4	3.0	-0.04	-1.50%	0.1% to 2.0%					14319	65+97.29	47.21	612.34
14315	14316	Landing/Turning Space	4	4.0	0.06	1.50%	0.1% to 2.0%					14320	65+97.15	43.22	612.28
14315	14320	Landing/Turning Space	4	3.0	-0.04	-1.50%	0.1% to 2.0%					14321	65+96.96	33.22	611.53
14316	14317	Sidewalk Running Slope	4	10.0	0.87	8.70%	0.5% to 9.7%				Slope required to match existing conditions				
14316	14319	Landing/Turning Space	4	3.0	-0.04	-1.50%	0.1% to 2.0%								
14317	14318	Match Existing Cross Slope	4	2.9	0.13	4.50%	Match Existing								
14318	14319	Sidewalk Running Slope	4	10.0	-1.04	-10.40%	0.5% to 11.4%				Slope required to match existing conditions				
14319	14320	Landing/Turning Space	4	4.0	-0.06	-1.50%	0.1% to 2.0%								
14320	14321	Ramp Running Slope	6	10.0	-0.75	-7.50%	0.5% to 8.3%	Yes							
14401	14402	Match Existing Cross Slope	4	6.4	0.22	3.40%	Match Existing					14401	65+35.03	22.5	611.68
14401	14403	Sidewalk Running Slope	4	5.5	-0.16	-2.90%	0.5% to 5.0%					14402	65+35.09	28.88	611.90
14402	14416	Sidewalk Running Slope	4	5.6	-0.28	-5.00%	0.5% to 5.0%	Yes			Slope required to match existing conditions	14403	65+40.52	22.45	611.52
14403	14404	Sidewalk Running Slope	4	5.1	0.03	0.50%	0.5% to 5.0%					14404	65+45.55	23.03	611.55
14403	14416	Sidewalk Cross Slope	4	6.4	0.1	1.50%	0.5% to 2.0%					14405	65+52.82	26.22	611.52
14404	14405	Landing/Turning Space	4	7.9	-0.03	-0.40%	0.1% to 2.0%					14406	65+59.34	33.07	611.48
14404	14415	Landing/Turning Space	4	9.9	0.11	1.10%	0.1% to 2.0%					14407	65+59.85	33.93	611.63
14405	14406	Crosswalk Cross Slope - Yield Condition	6	9.5	-0.04	-0.40%	0.0% to 2.0%					14408	65+57.07	38.48	611.93
14405	14410	Landing/Turning Space	4	7.0	0.07	0.90%	0.1% to 2.0%					14409	65+56.83	33.11	611.53
14406	14409	Landing/Turning Space	4	2.5	0.04	1.70%	0.1% to 2.0%	Yes				14410	65+52.93	33.17	611.59
14408	14409	Ramp Running Slope	6	5.4	-0.4	-7.50%	0.5% to 8.3%	Yes				14411	65+57.19	42.48	612.00
14408	14411	Landing/Turning Space	4	4.0	0.07	1.70%	0.1% to 2.0%	Yes				14412	65+53.25	42.65	612.02
14408	14413	Landing/Turning Space	4	4.0	0.02	0.50%	0.1% to 2.0%					14413	65+53.05	38.65	611.95
14409	14410	Landing/Turning Space	4	3.9	0.06	1.50%	0.1% to 2.0%					14414	65+46.32	33.28	611.65
14410	14413	Ramp Running Slope	6	5.5	0.36	6.60%	0.5% to 8.3%					14415	65+45.87	32.92	611.66
14410	14414	Landing/Turning Space	4	6.6	0.07	1.00%	0.1% to 2.0%					14416	65+40.73	28.82	611.62
14411	14412	Landing/Turning Space	4	3.9	0.02	0.50%	0.1% to 2.0%								
14412	14413	Landing/Turning Space	4	4.0	-0.07	-1.80%	0.1% to 2.0%	Yes							
14413	14414	Sidewalk Running Slope	4	8.6	-0.3	-3.50%	0.5% to 5.0%								
14414	14415	Landing/Turning Space	4	0.6	0.01	1.60%	0.1% to 2.0%	Yes							
14415	14416	Sidewalk Running Slope	4	6.6	-0.04	-0.60%	0.5% to 5.0%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
15101	15102	Crosswalk Cross Slope - Yield Condition	6	6.2	0.06	1.00%	0.0% to 2.0%					15101	66+52.06	37.27	610.45
15101	15114	Ramp Running Slope	6	5.0	0.04	0.70%	0.5% to 8.3%					15102	66+50.55	31.24	610.52
15102	15103	Sidewalk Running Slope	4	5.9	0.05	0.80%	0.5% to 5.0%					15103	66+46.23	27.15	610.56
15102	15115	Ramp Running Slope	6	3.4	0.06	1.90%	0.5% to 8.3%					15104	66+38.35	23.38	610.92
15103	15104	Ramp Running Slope	6	8.7	0.36	4.10%	0.5% to 8.3%					15105	66+31.37	22.86	611.17
15103	15108	Ramp Cross Slope	6	5.1	0.08	1.50%	0.1% to 2.0%					15106	66+31.23	27.94	611.25
15104	15105	Sidewalk Running Slope	4	7.0	0.25	3.60%	0.5% to 5.0%					15107	66+38.21	28.14	610.91
15104	15107	Landing/Turning Space	4	4.8	-0.01	-0.20%	0.1% to 2.0%					15108	66+43.11	31.12	610.64
15105	15106	Landing/Turning Space	4	5.1	0.08	1.50%	0.1% to 2.0%					15109	66+42.93	37.12	610.55
15106	15107	Sidewalk Running Slope	4	7.0	-0.34	-4.80%	0.5% to 5.0%	Yes			Slope required to match existing conditions	15110	66+42.67	45.12	611.15
15107	15108	Ramp Running Slope	6	5.7	-0.27	-4.70%	0.5% to 8.3%					15111	66+42.51	49.11	611.12
15108	15109	Landing/Turning Space	4	6.0	-0.09	-1.50%	0.1% to 2.0%					15112	66+46.79	49.24	611.01
15108	15115	Landing/Turning Space	4	4.0	-0.06	-1.50%	0.1% to 2.0%					15113	66+46.91	45.19	611.09
15109	15110	Ramp Running Slope	6	8.0	0.6	7.50%	0.5% to 8.3%	Yes				15114	66+47.04	37.19	610.49
15109	15114	Landing/Turning Space	4	4.1	-0.06	-1.50%	0.1% to 2.0%					15115	66+47.14	31.19	610.58
15110	15111	Sidewalk Running Slope	4	4.0	-0.03	-0.70%	0.5% to 5.0%								
15110	15113	Ramp Cross Slope	6	4.2	-0.06	-1.50%	0.1% to 2.0%								
15111	15112	Match Existing Cross Slope	4	4.3	-0.11	-2.50%	Match Existing								
15112	15113	Sidewalk Running Slope	4	4.1	0.07	1.80%	0.5% to 5.0%								
15113	15114	Ramp Running Slope	6	8.0	-0.6	-7.50%	0.5% to 8.3%	Yes							
15114	15115	Landing/Turning Space	4	6.0	0.09	1.50%	0.1% to 2.0%								
15201	15202	Landing/Turning Space	4	1.4	-0.02	-1.50%	0.1% to 2.0%					15201	66+94.24	37.94	610.75
15201	15219	Crosswalk Cross Slope - Yield Condition	6	6.0	0	0.10%	0.0% to 2.0%					15202	66+95.65	37.96	610.73
15202	15203	Ramp Running Slope	6	8.0	-0.09	-1.20%	0.5% to 8.3%					15203	66+95.28	45.97	610.64
15202	15207	Landing/Turning Space	4	5.7	0.08	1.40%	0.1% to 2.0%					15204	66+95.04	50.96	610.45
15203	15204	Sidewalk Running Slope	4	5.0	-0.18	-3.70%	0.5% to 5.0%					15205	67+01.15	51.05	610.82
15203	15206	Ramp Cross Slope	6	5.9	0.09	1.50%	0.1% to 2.0%					15206	67+01.23	46.05	610.73
15204	15205	Match Existing Cross Slope	4	6.1	0.37	6.00%	Match Existing					15207	67+01.35	38.05	610.81
15205	15206	Sidewalk Running Slope	4	5.0	-0.1	-1.90%	0.5% to 5.0%					15208	67+01.45	31.84	610.86
15206	15207	Ramp Running Slope	6	8.0	0.08	1.00%	0.5% to 8.3%					15209	67+01.95	31.84	610.86
15207	15208	Landing/Turning Space	4	6.2	0.05	0.80%	0.1% to 2.0%					15210	67+11.71	31.86	611.59
15208	15209	Landing/Turning Space	4	0.5	0.01	1.60%	0.1% to 2.0%	Yes				15211	67+16.71	31.87	611.67
15208	15219	Landing/Turning Space	4	7.0	-0.1	-1.40%	0.1% to 2.0%					15212	67+21.71	31.88	611.91
15209	15210	Ramp Running Slope	6	9.8	0.73	7.50%	0.5% to 8.3%	Yes				15213	67+21.73	22.79	611.61
15209	15217	Landing/Turning Space	4	8.7	0.02	0.30%	0.1% to 2.0%					15214	67+16.73	22.79	611.58
15210	15211	Landing/Turning Space	4	5.0	0.07	1.50%	0.1% to 2.0%					15215	67+11.73	22.83	611.50
15210	15215	Landing/Turning Space	4	9.0	-0.09	-1.00%	0.1% to 2.0%					15216	67+04.37	22.85	610.98
15211	15212	Sidewalk Running Slope	4	5.0	0.25	4.90%	0.5% to 5.0%	Yes				15217	67+02.11	23.13	610.89
15211	15214	Landing/Turning Space	4	9.1	-0.09	-1.00%	0.1% to 2.0%					15218	66+96.84	26.29	610.83
15212	15213	Match Existing Cross Slope	4	9.1	-0.3	-3.30%	Match Existing					15219	66+94.44	31.94	610.76
15213	15214	Sidewalk Running Slope	4	5.0	-0.03	-0.60%	0.5% to 5.0%								
15214	15215	Landing/Turning Space	4	5.0	-0.07	-1.50%	0.1% to 2.0%								
15215	15216	Ramp Running Slope	6	7.4	-0.52	-7.10%	0.5% to 8.3%								
15216	15217	Ramp Running Slope	6	2.3	-0.1	-4.30%	0.5% to 8.3%								
15217	15218	Landing/Turning Space	4	6.1	-0.05	-0.90%	0.1% to 2.0%								
15218	15219	Landing/Turning Space	4	6.1	-0.08	-1.20%	0.1% to 2.0%								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
16201	16202	Match Existing Cross Slope	4	8.4	0.18	2.10%	Match Existing						16201	68+28.25	22.71	614.20
16201	16204	Sidewalk Running Slope	4	7.8	0.02	0.30%	0.5% to 5.0%				Slope required to match existing conditions		16202	68+28.25	31.14	614.37
16202	16203	Sidewalk Running Slope	4	7.8	0.22	2.80%	0.5% to 5.0%						16203	68+36.04	31.14	614.59
16203	16204	Match Existing Cross Slope	4	8.4	-0.37	-4.40%	Match Existing						16204	68+36.04	22.72	614.22
16301	16302	Crosswalk Cross Slope - Yield Condition	6	10.4	-0.01	-0.10%	0.0% to 2.0%						16301	67+95.59	30.65	612.98
16301	16312	Landing/Turning Space	4	3.8	0.06	1.50%	0.1% to 2.0%						16302	68+04.00	24.55	612.97
16302	16303	Ramp Running Slope	6	10.1	0.77	7.60%	0.5% to 8.3%	Yes					16303	68+14.03	25.34	613.74
16302	16307	Landing/Turning Space	4	4.2	0.06	1.50%	0.1% to 2.0%						16304	68+19.02	25.29	613.93
16303	16304	Sidewalk Running Slope	4	5.0	0.19	3.70%	0.5% to 5.0%						16305	68+18.99	28.52	614.01
16303	16306	Ramp Cross Slope	6	3.1	0.05	1.50%	0.1% to 2.0%						16306	68+14.13	28.48	613.79
16304	16305	Match Existing Cross Slope	4	3.2	0.08	2.50%	Match Existing						16307	68+04.11	28.73	613.04
16305	16306	Sidewalk Running Slope	4	4.9	-0.22	-4.60%	0.5% to 5.0%	Yes					16308	68+02.93	28.76	613.04
16306	16307	Ramp Running Slope	6	10.0	-0.75	-7.50%	0.5% to 8.3%	Yes					16309	68+02.99	30.46	613.08
16307	16308	Landing/Turning Space	4	1.2	0	0.40%	0.1% to 2.0%						16310	68+03.33	40.51	613.88
16308	16309	Landing/Turning Space	4	1.7	0.03	2.00%	0.1% to 2.0%	Yes					16311	67+99.54	40.58	613.84
16309	16310	Ramp Running Slope	6	10.1	0.8	7.90%	0.5% to 8.3%	Yes					16312	67+99.36	30.58	613.04
16309	16312	Landing/Turning Space	4	3.6	-0.03	-1.00%	0.1% to 2.0%									
16310	16311	Ramp Cross Slope	6	3.8	-0.03	-0.90%	0.1% to 2.0%									
16311	16312	Ramp Running Slope	6	10.0	-0.8	-8.00%	0.5% to 8.3%	Yes								
16401	16403	Ramp Running Slope	6	10.1	-0.34	-3.40%	0.5% to 8.3%						16401	67+34.59	22.57	612.15
16401	16411	Ramp Cross Slope	6	4.6	0.03	0.60%	0.1% to 2.0%						16402	67+37.11	22.59	612.07
16403	16404	Crosswalk Cross Slope - Yield Condition	6	13.5	0.16	1.20%	0.0% to 2.0%						16403	67+44.64	23.81	611.81
16403	16410	Landing/Turning Space	4	3.6	0.05	1.50%	0.1% to 2.0%						16404	67+55.88	31.29	611.97
16404	16405	Landing/Turning Space	4	5.7	0.01	0.10%	0.1% to 2.0%						16405	67+50.20	31.45	611.98
16405	16406	Ramp Running Slope	6	18.9	1.68	8.90%					Slope required to match existing conditions		16406	67+50.79	50.34	613.66
16405	16408	Landing/Turning Space	4	4.0	0.04	0.90%	0.1% to 2.0%						16407	67+47.09	50.44	613.76
16406	16407	Ramp Cross Slope	6	3.7	0.1	2.80%	0.1% to 3.8%						16408	67+46.17	31.52	612.02
16407	16408	Ramp Running Slope	6	18.9	-1.75	-9.20%	0.5% to 10.2%				Slope required to match existing conditions		16409	67+45.96	27.4	611.95
16408	16409	Landing/Turning Space	4	4.1	-0.06	-1.50%	0.1% to 2.0%						16410	67+44.75	27.37	611.86
16409	16410	Landing/Turning Space	4	1.2	-0.09	-7.40%	0.1% to 8.4%						16411	67+34.74	27.16	612.18
16410	16411	Ramp Running Slope	6	10.0	0.32	3.20%	0.5% to 8.3%									

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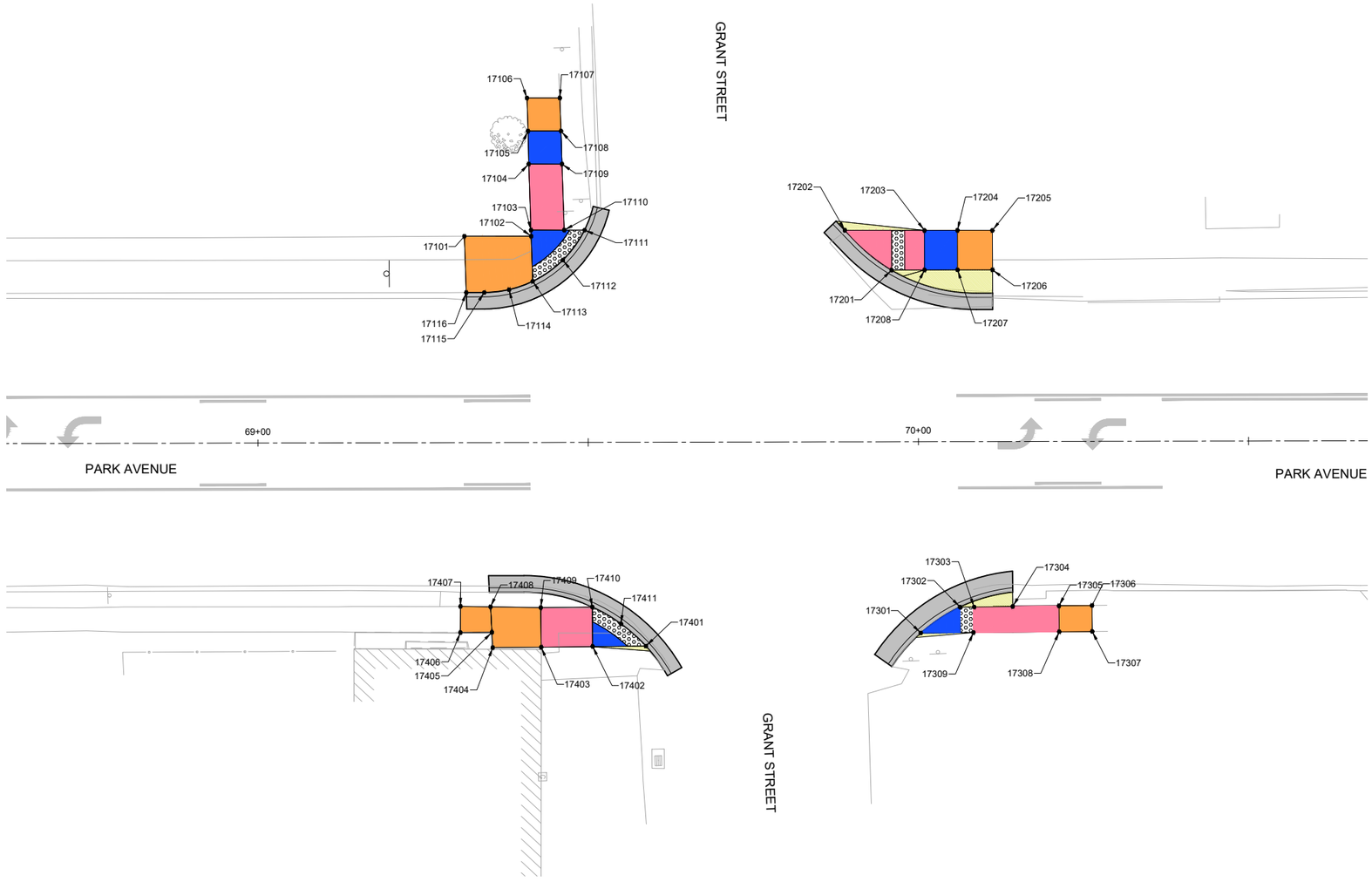
LEGEND

	CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET



Plot Date: 3/31/2020 9:37 AM
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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
17101	17102	Sidewalk Running Slope	4	10.1	-0.24	-2.30%	0.5% to 5.0%						17101	69+31.32	31.25	616.65
17101	17116	Match Existing Cross Slope	4	8.5	-0.15	-1.80%	Match Existing						17102	69+41.44	31.22	616.41
17102	17103	Landing/Turning Space	4	0.9	0.02	1.70%	0.1% to 2.0%	Yes					17103	69+41.41	32.16	616.43
17102	17113	Landing/Turning Space	4	6.8	-0.12	-1.80%	0.1% to 2.0%	Yes					17104	69+41.09	42.16	617.18
17103	17104	Ramp Running Slope	6	10.0	0.75	7.50%	0.5% to 8.3%	Yes					17105	69+41.00	47.16	617.25
17103	17110	Landing/Turning Space	4	5.0	0.06	1.30%	0.1% to 2.0%						17106	69+40.84	52.16	617.51
17104	17105	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%						17107	69+45.82	52.16	617.48
17104	17109	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%						17108	69+45.99	47.14	617.20
17105	17106	Sidewalk Running Slope	4	5.0	0.26	5.10%	0.5% to 6.1%						17109	69+46.12	42.14	617.13
17105	17108	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%						17110	69+46.44	32.14	616.49
17106	17107	Match Existing Cross Slope	4	5.0	-0.03	-0.60%	Match Existing						17111	69+49.52	32.13	616.46
17107	17108	Sidewalk Running Slope	4	5.0	-0.28	-5.50%	0.5% to 6.5%						17112	69+46.23	27.61	616.38
17108	17109	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%						17113	69+41.65	24.39	616.29
17109	17110	Ramp Running Slope	6	10.0	-0.64	-6.40%	0.5% to 8.3%						17114	69+38.07	23.14	616.37
17110	17111	Landing/Turning Space	4	3.1	-0.03	-1.00%	0.1% to 2.0%						17115	69+34.30	22.72	616.44
17111	17112	Landing/Turning Space	4	5.6	-0.08	-1.50%	0.1% to 2.0%						17116	69+31.59	22.72	616.50
17112	17113	Landing/Turning Space	4	5.6	-0.08	-1.50%	0.1% to 2.0%									
17113	17114	Sidewalk Running Slope	4	3.8	0.08	2.00%	0.5% to 5.0%									
17114	17115	Sidewalk Running Slope	4	3.8	0.08	2.00%	0.5% to 5.0%									
17115	17116	Sidewalk Running Slope	4	2.7	0.05	2.00%	0.5% to 5.0%									
17201	17202	Crosswalk Cross Slope - Yield Condition	6	9.3	-0.19	-2.00%	0.0% to 2.0%						17201	69+95.98	25.99	617.64
17201	17208	Ramp Running Slope	6	5.0	0.38	7.50%	0.5% to 8.3%	Yes					17202	69+88.93	32.03	617.45
17202	17203	Ramp Running Slope	6	12.0	0.67	5.50%	0.5% to 8.3%						17203	70+00.98	31.99	618.12
17203	17204	Landing/Turning Space	4	5.0	0.07	1.40%	0.1% to 2.0%						17204	70+05.98	31.99	618.19
17203	17208	Landing/Turning Space	4	6.0	-0.11	-1.70%	0.1% to 2.0%	Yes					17205	70+11.27	31.96	618.45
17204	17205	Sidewalk Running Slope	4	5.3	0.25	4.80%	0.5% to 5.0%	Yes					17206	70+11.27	26	618.28
17204	17207	Landing/Turning Space	4	6.0	-0.09	-1.50%	0.1% to 2.0%						17207	70+05.98	25.99	618.10
17205	17206	Match Existing Cross Slope	4	6.0	-0.16	-2.70%	Match Existing						17208	70+00.98	25.99	618.02
17206	17207	Sidewalk Running Slope	4	5.3	-0.18	-3.40%	0.5% to 5.0%									
17207	17208	Landing/Turning Space	4	5.0	-0.09	-1.70%	0.1% to 2.0%	Yes								
17301	17302	Crosswalk Cross Slope - Yield Condition	6	7.1	0.06	0.80%	0.0% to 2.0%						17301	70+00.31	28.97	617.50
17301	17309	Landing/Turning Space	4	8.0	0.12	1.50%	0.1% to 2.0%						17302	70+06.25	25.06	617.55
17302	17303	Landing/Turning Space	4	2.1	0.04	1.80%	0.1% to 2.0%	Yes					17303	70+08.40	25.05	617.59
17303	17309	Landing/Turning Space	4	3.9	0.02	0.60%	0.1% to 2.0%						17304	70+14.24	24.98	618.03
17303	17304	Ramp Running Slope	6	5.8	0.44	7.50%	0.5% to 8.3%	Yes					17305	70+21.24	24.9	618.55
17304	17305	Ramp Running Slope	6	7.0	0.52	7.50%	0.5% to 8.3%	Yes					17306	70+26.24	24.85	618.73
17305	17306	Sidewalk Running Slope	4	5.0	0.18	3.60%	0.5% to 5.0%						17307	70+26.27	28.79	618.87
17305	17308	Ramp Cross Slope	6	3.9	0.04	0.90%	0.1% to 2.0%						17308	70+21.27	28.82	618.59
17306	17307	Match Existing Cross Slope	4	3.9	0.13	3.30%	Match Existing						17309	70+08.28	28.92	617.62
17307	17308	Sidewalk Running Slope	4	5.0	-0.27	-5.50%	0.5% to 6.5%				Slope required to match existing conditions					
17308	17309	Ramp Running Slope	6	13.0	-0.98	-7.50%	0.5% to 8.3%	Yes								

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
17401	17402	Landing/Turning Space	4	8.1	-0.08	-1.00%	0.1% to 2.0%						17401	69+58.68	30.87	616.65
17401	17411	Crosswalk Cross Slope - Yield Condition	6	5.1	-0.08	-1.50%	0.0% to 2.0%						17402	69+50.62	30.9	616.57
17402	17403	Ramp Running Slope	6	7.8	0.31	4.00%	0.5% to 8.3%						17403	69+42.82	31	616.88
17402	17410	Landing/Turning Space	4	6.0	-0.07	-1.10%	0.1% to 2.0%						17404	69+35.49	31.06	616.99
17403	17404	Sidewalk Running Slope	4	7.3	0.11	1.50%	0.5% to 5.0%						17405	69+35.37	28.73	616.95
17403	17409	Ramp Cross Slope	6	6.0	-0.1	-1.60%	0.1% to 2.0%	Yes					17406	69+30.60	28.76	616.86
17404	17405	Sidewalk Cross Slope	4	2.3	-0.04	-1.50%	0.5% to 2.0%						17407	69+30.62	24.8	616.87
17405	17406	Sidewalk Running Slope	4	4.8	-0.09	-1.90%	0.5% to 5.0%						17408	69+35.17	24.86	616.90
17405	17408	Sidewalk Cross Slope	4	3.9	-0.06	-1.50%	0.5% to 2.0%						17409	69+42.77	25	616.78
17406	17407	Match Existing Cross Slope	4	4.0	0.01	0.20%	Match Existing						17410	69+50.57	24.94	616.50
17407	17408	Sidewalk Running Slope	4	4.5	0.02	0.50%	0.5% to 5.0%						17411	69+54.92	27.49	616.57
17408	17409	Sidewalk Running Slope	4	7.6	-0.11	-1.50%	0.5% to 5.0%									
17409	17410	Ramp Running Slope	6	7.8	-0.28	-3.60%	0.5% to 8.3%									
17410	17411	Crosswalk Cross Slope - Yield Condition	6	5.0	0.07	1.50%	0.0% to 2.0%									

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LEGEND

- CURB RAMP (8.3% max long. slope, 2.0% max cross slope)
- TURNING SPACE (2.0% max slope)
- PCC SIDEWALK, 6" (5.0% max long. slope, 2.0% max cross slope)
- DETECTABLE WARNINGS (2' x 5' typical - fiberglass)
- NON-TRAVERSABLE FLARE /CURB (10:1 > slope allowed)
- TRAVERSABLE FLARE (10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET

WASHINGTON STREET

PARK AVENUE

71+00

172+00

173+00

PARK AVENUE

WASHINGTON STREET

Plot Date: 3/31/2020 9:39 AM
File Name: p:\projects\mo\3172470\deliverables\drawings\1_civil\s.01 sidewalk plan - jpl.dwg

SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.33

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
18101	18102	Ramp Running Slope	6	7.2	0.03	0.40%	0.5% to 8.3%					18101	71+34.20	22.17	620.73
18101	18104	Landing/Turning Space	4	5.0	0.07	1.50%	0.1% to 2.0%					18102	71+27.03	22.33	620.76
18101	18118	Crosswalk Cross Slope - No Yield Condition	6	6.1	0.09	1.50%	0.0% to 5.0%					18103	71+26.98	27.19	620.86
18102	18103	Ramp Cross Slope	6	4.9	0.1	2.00%	0.1% to 2.0%	Yes				18104	71+34.14	27.12	620.80
18103	18104	Ramp Running Slope	6	7.2	-0.06	-0.80%	0.5% to 8.3%					18105	71+37.21	27.59	620.86
18104	18106	Landing/Turning Space	4	6.2	0.12	1.90%	0.1% to 2.0%	Yes				18106	71+40.19	28.46	620.92
18106	18107	Sidewalk Running Slope	4	5.5	0.11	1.90%	0.5% to 5.0%					18107	71+45.09	30.94	621.02
18106	18118	Landing/Turning Space	4	5.5	-0.1	-1.80%	0.1% to 2.0%	Yes				18109	71+44.89	36.69	621.11
18107	18109	Landing/Turning Space	4	5.8	0.09	1.50%	0.1% to 2.0%					18110	71+44.72	51.69	621.89
18107	18116	Landing/Turning Space	4	7.7	0.02	0.30%	0.1% to 2.0%					18111	71+44.64	56.69	621.90
18109	18110	Ramp Running Slope	6	15.0	0.78	5.20%	0.5% to 8.3%					18112	171+49.54	56.76	621.83
18109	18114	Landing/Turning Space	4	4.9	-0.07	-1.50%	0.1% to 2.0%					18113	171+49.63	51.76	621.82
18110	18111	Sidewalk Running Slope	4	5.0	0.01	0.30%	0.5% to 5.0%					18114	171+49.85	36.73	621.04
18110	18113	Ramp Cross Slope	6	4.9	-0.07	-1.50%	0.1% to 2.0%					18115	171+56.92	36.81	621.15
18111	18112	Match Existing Cross Slope	4	4.9	-0.07	-1.50%	Match Existing					18116	171+53.07	30.91	621.05
18112	18113	Sidewalk Running Slope	4	5.0	-0.01	-0.20%	0.5% to 5.0%					18117	71+47.25	25.97	620.93
18113	18114	Ramp Running Slope	6	15.0	-0.78	-5.20%	0.5% to 8.3%					18118	71+40.22	22.98	620.82
18114	18115	Landing/Turning Space	4	7.1	0.12	1.60%	0.1% to 2.0%	Yes							
18115	18116	Crosswalk Cross Slope - Yield Condition	6	7.0	-0.11	-1.50%	0.0% to 2.0%								
18116	18117	Sidewalk Running Slope	4	7.6	-0.11	-1.50%	0.5% to 5.0%								
18117	18118	Sidewalk Running Slope	4	7.6	-0.11	-1.50%	0.5% to 5.0%								
18201	18203	Ramp Running Slope	6	8.7	0.51	5.90%	0.5% to 8.3%					18201	171+89.63	37.02	621.40
18201	18220	Crosswalk Cross Slope - Yield Condition	6	6.8	0.06	0.90%	0.0% to 2.0%					18202	171+92.78	37.01	621.58
18203	18204	Sidewalk Running Slope	4	4.5	0.1	2.30%	0.5% to 5.0%					18203	171+98.33	37.02	621.91
18203	18219	Landing/Turning Space	4	6.0	-0.06	-1.00%	0.1% to 2.0%					18204	171+98.25	41.54	622.01
18204	18205	Match Existing Cross Slope	4	4.8	0.05	1.10%	Match Existing					18205	172+03.09	41.38	622.06
18205	18206	Sidewalk Running Slope	4	4.3	-0.11	-2.50%	0.5% to 5.0%					18206	172+03.19	37.13	621.96
18206	18207	Landing/Turning Space	4	1.1	0	-0.40%	0.1% to 2.0%					18207	172+03.21	36.06	621.95
18207	18208	Landing/Turning Space	4	6.2	0.05	0.80%	0.1% to 2.0%					18208	172+07.44	31.51	622.00
18208	18209	Landing/Turning Space	4	5.3	0.05	1.00%	0.1% to 2.0%					18209	172+12.72	31.48	622.05
18208	18217	Landing/Turning Space	4	4.1	-0.05	-1.20%	0.1% to 2.0%					18210	172+17.72	31.45	621.97
18209	18210	Sidewalk Running Slope	4	5.0	-0.09	-1.80%	0.5% to 5.0%					18211	172+17.72	27.52	621.96
18209	18212	Landing/Turning Space	4	4.0	-0.04	-1.00%	0.1% to 2.0%					18212	172+12.70	27.51	622.01
18210	18211	Match Existing Cross Slope	4	3.9	0	0.00%	Match Existing					18213	172+12.69	21.38	621.56
18211	18212	Sidewalk Running Slope	4	5.0	0.05	1.00%	0.5% to 5.0%					18214	172+12.68	20.58	621.50
18212	18214	Ramp Running Slope	6	6.9	-0.52	-7.50%	0.5% to 8.3%	Yes				18215	172+09.66	20.82	621.51
18214	18216	Crosswalk Cross Slope - No Yield Condition	6	6.1	0.03	0.50%	0.0% to 5.0%					18216	172+06.69	21.42	621.53
18216	18217	Ramp Running Slope	6	6.1	0.43	7.00%	0.5% to 8.3%					18217	172+06.68	27.51	621.95
18217	18218	Landing/Turning Space	4	5.0	-0.03	-0.50%	0.1% to 2.0%					18218	172+01.69	27.52	621.93
18218	18219	Landing/Turning Space	4	4.8	-0.08	-1.60%	0.1% to 2.0%	Yes				18219	171+98.35	31.02	621.85
18219	18220	Ramp Running Slope	6	5.6	-0.39	-7.00%	0.5% to 8.3%					18220	171+92.80	31.01	621.46

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
18301	18302	Ramp Running Slope	6	11.1	0.54	4.80%	0.5% to 8.3%					18301	172+13.64	25.86	621.75
18301	18317	Crosswalk Cross Slope - No Yield Condition	6	10.8	0.16	1.50%	0.0% to 5.0%					18302	172+24.72	26.34	622.29
18302	18303	Sidewalk Running Slope	4	7.1	0.11	1.50%	0.5% to 5.0%					18303	172+31.86	26.5	622.40
18302	18305	Ramp Cross Slope	6	5.0	0.03	0.60%	0.1% to 2.0%					18304	172+31.76	31.4	622.42
18303	18304	Match Existing Cross Slope	4	4.9	0.02	0.50%	Match Existing					18305	172+24.94	31.29	622.32
18304	18305	Sidewalk Running Slope	4	6.8	-0.1	-1.50%	0.5% to 5.0%					18306	172+17.25	33.05	621.88
18305	18306	Ramp Running Slope	6	7.9	-0.43	-5.50%	0.5% to 8.3%					18307	172+13.61	35.01	621.89
18306	18307	Landing/Turning Space	4	4.1	0.01	0.20%	0.1% to 2.0%					18308	172+13.60	37.75	621.94
18307	18308	Landing/Turning Space	4	2.7	0.05	2.00%	0.1% to 2.0%	Yes				18309	172+10.35	37.69	622.04
18308	18309	Landing/Turning Space	4	3.3	0.09	2.80%	0.1% to 3.8%					18310	172+08.18	40.2	622.23
18309	18310	Sidewalk Running Slope	4	3.3	0.19	5.80%	0.5% to 6.8%					18311	172+04.99	46.34	622.38
18309	18317	Landing/Turning Space	4	8.1	-0.12	-1.50%	0.1% to 2.0%					18312	172+03.87	54.78	623.29
18310	18311	Landing/Turning Space	4	6.9	0.15	2.20%	0.1% to 3.2%					18313	172+00.11	54.77	623.18
18310	18316	Landing/Turning Space	4	9.5	-0.07	-0.80%	0.1% to 2.0%					18314	172+00.12	46.26	622.31
18311	18312	Ramp Running Slope	6	8.5	0.91	10.70%	0.5% to 11.7%				Slope required to match existing conditions	18315	171+96.53	46.2	622.26
18311	18314	Landing/Turning Space	4	4.9	-0.07	-1.50%	0.1% to 2.0%					18316	171+98.72	40.16	622.16
18312	18313	Ramp Cross Slope	6	3.8	-0.11	-3.00%	0.1% to 4%				Slope required to match existing conditions	18317	172+04.68	31.91	621.92
18313	18314	Ramp Running Slope	6	8.5	-0.87	-10.20%	0.5% to 11.2%				Slope required to match existing conditions				
18314	18315	Landing/Turning Space	4	3.6	-0.05	-1.50%	0.1% to 2.0%								
18315	18316	Crosswalk Cross Slope - Yield Condition	6	6.4	-0.1	-1.50%	0.0% to 2.0%								
18401	18402	Crosswalk Cross Slope - No Yield Condition	6	11.3	0.17	1.50%	0.0% to 5.0%					18401	71+32.67	31.08	621.00
18401	18412	Landing/Turning Space	4	8.9	0.13	1.50%	0.1% to 2.0%					18402	71+41.38	38.25	621.18
18401	18420	Sidewalk Running Slope	4	7.3	-0.29	-4.00%	0.5% to 5.0%					18403	71+47.61	47.44	621.34
18402	18403	Crosswalk Cross Slope - Yield Condition	6	11.1	0.17	1.50%	0.0% to 2.0%					18404	171+50.97	57.46	622.16
18402	18410	Landing/Turning Space	4	5.9	0.09	1.50%	0.1% to 2.0%					18405	171+51.71	62.46	622.09
18403	18404	Ramp Running Slope	6	10.8	0.82	7.60%	0.5% to 8.3%	Yes				18406	71+45.95	62.43	622.31
18403	18408	Landing/Turning Space	4	8.9	0.14	1.50%	0.1% to 2.0%					18407	71+44.46	57.42	622.26
18404	18405	Landing/Turning Space	4	5.1	-0.08	-1.50%	0.1% to 2.0%					18408	71+38.66	47.4	621.48
18404	18407	Landing/Turning Space	4	6.7	0.1	1.50%	0.1% to 2.0%					18409	71+37.01	45.53	621.40
18405	18406	Landing/Turning Space	4	5.9	0.22	3.70%	0.1% to 4.7%					18410	71+37.05	42.23	621.26
18406	18407	Landing/Turning Space	4	5.2	-0.04	-0.80%	0.1% to 2.0%					18411	71+34.47	43.41	621.23
18407	18408	Ramp Running Slope	6	11.6	-0.78	-6.80%	0.5% to 8.3%					18412	71+27.98	38.61	621.14
18408	18409	Landing/Turning Space	4	2.5	-0.08	-3.20%	0.1% to 4.2%					18413	71+23.24	35.86	620.85
18409	18410	Landing/Turning Space	4	3.3	-0.14	-4.20%	0.1% to 5.2%					18414	71+14.47	32.11	620.32
18410	18411	Landing/Turning Space	4	2.8	-0.04	-1.30%	0.1% to 2.0%					18415	71+07.62	28.77	620.42
18411	18412	Landing/Turning Space	4	8.1	-0.09	-1.10%	0.1% to 2.0%					18416	71+03.00	28.72	620.33
18412	18413	Sidewalk Running Slope	4	5.5	-0.29	-5.30%	0.5% to 6.3%					18417	71+03.04	24.39	620.25
18413	18414	Ramp Running Slope	6	9.5	-0.52	-5.50%	0.5% to 8.3%					18418	71+07.98	24.89	620.35
18413	18420	Ramp Cross Slope	6	8.5	-0.14	-1.60%	0.1% to 2.0%	Yes				18419	71+14.34	25.47	620.22
18414	18415	Landing/Turning Space	4	7.6	0.09	1.20%	0.1% to 2.0%					18420	71+26.13	27.92	620.71
18414	18419	Landing/Turning Space	4	6.6	-0.1	-1.50%	0.1% to 2.0%								
18415	18416	Sidewalk Running Slope	4	4.6	-0.09	-2.00%	0.5% to 5.0%								
18415	18418	Landing/Turning Space	4	3.9	-0.07	-1.70%	0.1% to 2.0%	Yes							
18416	18417	Match Existing Cross Slope	4	4.3	-0.08	-1.80%	Match Existing								
18417	18418	Sidewalk Running Slope	4	5.0	0.1	2.00%	0.5% to 5.0%								
18418	18419	Landing/Turning Space	4	6.4	-0.13	-2.00%	0.1% to 2.0%	Yes							
18419	18420	Ramp Running Slope	6	12.0	0.49	4.00%	0.5% to 8.3%								

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LEGEND

	CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

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SCALE IN FEET

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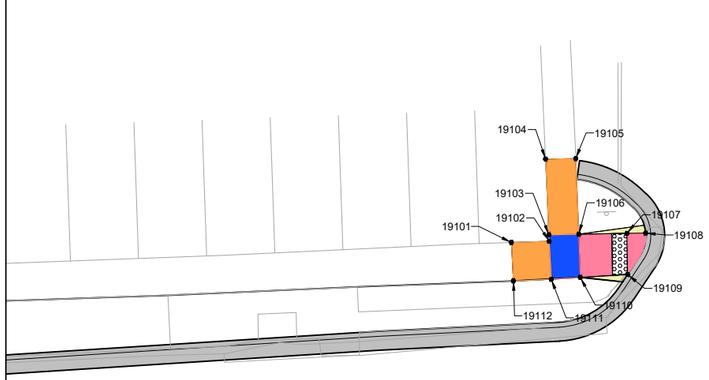
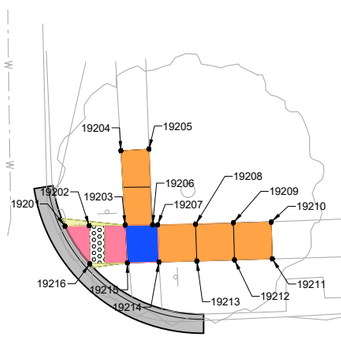


JEFFERSON STREET



ALLY

PARK AVENUE

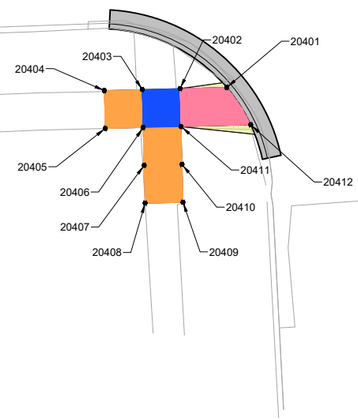
175+00

177+00

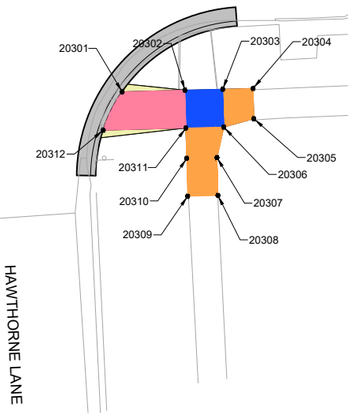
178+00

PARK AVENUE

DRIVEWAY



HAWTHORNE LANE



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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING 222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER	S.36

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
19101	19102	Sidewalk Running Slope	4	5.0	-0.12	-2.40%	0.5% to 5.0%						19101	175+01.34	32.17	620.95
19101	19112	Match Existing Cross Slope	4	5.1	-0.07	-1.30%	Match Existing						19102	175+06.33	32.14	620.83
19102	19103	Landing/Turning Space	4	0.9	-0.02	-1.70%	0.1% to 2.0%	Yes					19103	175+06.33	33	620.81
19102	19111	Landing/Turning Space	4	5.0	0.04	0.70%	0.1% to 2.0%						19104	175+06.28	43	620.62
19103	19104	Sidewalk Running Slope	4	10.0	-0.19	-1.90%	0.5% to 5.0%						19105	175+10.26	42.91	620.53
19103	19106	Landing/Turning Space	4	4.0	-0.03	-0.80%	0.1% to 2.0%						19106	175+10.28	32.91	620.78
19104	19105	Match Existing Cross Slope	4	4.0	-0.1	-2.40%	Match Existing						19107	175+16.63	32.78	620.51
19105	19106	Sidewalk Running Slope	4	10.0	0.25	2.50%	0.5% to 5.0%						19108	175+19.09	32.72	620.40
19106	19107	Ramp Running Slope	6	6.3	-0.27	-4.30%	0.5% to 8.3%						19109	175+16.51	27.38	620.46
19106	19110	Landing/Turning Space	4	5.7	0.04	0.80%	0.1% to 2.0%						19110	175+10.26	27.22	620.82
19107	19108	Ramp Running Slope	6	2.5	-0.11	-4.30%	0.5% to 8.3%						19111	175+06.42	27.12	620.86
19108	19109	Crosswalk Cross Slope - Yield Condition	6	5.9	0.06	1.00%	0.0% to 2.0%						19112	175+01.42	27.1	620.88
19109	19110	Ramp Running Slope	6	6.3	0.36	5.80%	0.5% to 8.3%									
19110	19111	Landing/Turning Space	4	3.8	0.04	1.00%	0.1% to 2.0%									
19111	19112	Sidewalk Running Slope	4	5.0	0.02	0.40%	0.5% to 5.0%									
19201	19202	Ramp Running Slope	6	3.2	0.16	4.90%	0.5% to 8.3%						19201	175+50.16	32.06	621.06
19201	19216	Crosswalk Cross Slope - Yield Condition	6	6.0	-0.06	-1.00%	0.0% to 2.0%						19202	175+53.35	31.99	621.22
19202	19203	Ramp Running Slope	6	4.8	0.23	4.90%	0.5% to 8.3%						19203	175+58.10	31.89	621.45
19202	19216	Ramp Cross Slope	6	5.0	-0.22	-4.30%	0.1% to 5.3%						19204	175+57.91	41.71	621.42
19203	19204	Sidewalk Running Slope	4	9.8	-0.03	-0.30%	0.5% to 5.0%						19205	175+61.63	41.78	621.49
19203	19215	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%						19206	175+61.72	31.78	621.50
19204	19205	Match Existing Cross Slope	4	3.7	0.07	2.00%	Match Existing						19207	175+62.39	31.76	621.51
19205	19206	Sidewalk Running Slope	4	10.0	0.01	0.10%	0.5% to 5.0%						19208	175+67.38	31.64	621.88
19206	19207	Landing/Turning Space	4	0.7	0.01	1.50%	0.1% to 2.0%						19209	175+72.38	31.64	622.26
19207	19208	Sidewalk Running Slope	4	5.0	0.37	7.40%	0.5% to 8.4%						19210	175+77.38	31.54	622.50
19207	19214	Landing/Turning Space	4	4.9	-0.08	-1.50%	0.1% to 2.0%						19211	175+77.34	26.68	622.43
19208	19209	Sidewalk Running Slope	4	5.0	0.37	7.50%	0.5% to 8.5%						19212	175+72.34	26.72	622.18
19208	19213	Sidewalk Cross Slope	4	4.9	-0.07	-1.50%	0.5% to 2.0%						19213	175+67.37	26.78	621.81
19209	19210	Sidewalk Running Slope	4	5.0	0.24	4.90%	0.5% to 5.0%	Yes					19214	175+62.37	26.84	621.44
19209	19212	Sidewalk Cross Slope	4	4.9	-0.07	-1.50%	0.5% to 2.0%						19215	175+58.20	26.89	621.37
19210	19211	Match Existing Cross Slope	4	4.9	-0.07	-1.50%	Match Existing						19216	175+53.24	26.95	621.00
19211	19212	Sidewalk Running Slope	4	5.0	-0.24	-4.90%	0.5% to 5.0%	Yes								
19212	19213	Sidewalk Running Slope	4	5.0	-0.37	-7.50%	0.5% to 8.5%									
19213	19214	Sidewalk Running Slope	4	5.0	-0.38	-7.50%	0.5% to 8.5%									
19214	19215	Landing/Turning Space	4	4.2	-0.06	-1.50%	0.1% to 2.0%									
19215	19216	Ramp Running Slope	6	5.0	-0.37	-7.50%	0.5% to 8.3%	Yes								

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
20301	20302	Ramp Running Slope	6	8.3	0.58	7.00%	0.5% to 8.3%						20301	177+84.49	27.12	625.02
20301	20312	Crosswalk Cross Slope - No Yield Condition	6	5.7	0	0.00%	0.0% to 5.0%						20302	177+92.77	27.23	625.60
20302	20303	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%						20303	177+97.77	27.29	625.67
20302	20311	Ramp Cross Slope	6	5.0	0.08	1.50%	0.1% to 2.0%						20304	178+01.77	27.34	625.75
20303	20304	Sidewalk Running Slope	4	4.0	0.08	1.90%	0.5% to 5.0%						20305	178+01.72	31.34	625.81
20303	20306	Landing/Turning Space	4	5.0	0.07	1.40%	0.1% to 2.0%						20306	177+97.71	32.29	625.74
20304	20305	Match Existing Cross Slope	4	4.0	0.06	1.40%	Match Existing						20307	177+96.65	36.28	625.81
20305	20306	Sidewalk Running Slope	4	4.1	-0.06	-1.50%	0.5% to 5.0%						20308	177+96.59	41.28	625.85
20306	20307	Sidewalk Running Slope	4	4.1	0.07	1.70%	0.5% to 5.0%						20309	177+92.59	41.23	625.82
20306	20311	Landing/Turning Space	4	5.0	-0.07	-1.40%	0.1% to 2.0%						20310	177+92.65	36.23	625.75
20307	20308	Sidewalk Running Slope	4	5.0	0.04	0.80%	0.5% to 5.0%						20311	177+92.71	32.23	625.67
20307	20310	Sidewalk Cross Slope	4	4.0	-0.06	-1.50%	0.5% to 2.0%						20312	177+81.79	32.09	625.02
20308	20309	Match Existing Cross Slope	4	4.0	-0.03	-0.80%	Match Existing									
20309	20310	Sidewalk Running Slope	4	5.0	-0.07	-1.30%	0.5% to 5.0%									
20310	20311	Sidewalk Running Slope	4	4.0	-0.08	-2.00%	0.5% to 5.0%									
20311	20312	Ramp Running Slope	6	10.9	-0.65	-6.00%	0.5% to 8.3%									
20401	20402	Ramp Running Slope	6	6.2	0.45	7.30%	0.5% to 8.3%						20401	177+51.40	27.52	624.84
20401	20412	Crosswalk Cross Slope - No Yield Condition	6	5.9	0.11	1.80%	0.0% to 5.0%						20402	177+45.24	27.42	625.29
20402	20403	Landing/Turning Space	4	5.0	0.05	1.00%	0.1% to 2.0%						20403	177+40.24	27.36	625.34
20402	20411	Ramp Cross Slope	6	5.0	0.08	1.50%	0.1% to 2.0%						20404	177+35.24	27.31	625.22
20403	20404	Sidewalk Running Slope	4	5.0	-0.12	-2.30%	0.5% to 5.0%						20405	177+35.18	32.31	625.31
20403	20406	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%						20406	177+40.18	32.38	625.41
20404	20405	Match Existing Cross Slope	4	5.0	0.09	1.80%	Match Existing						20407	177+40.11	37.37	625.59
20405	20406	Sidewalk Running Slope	4	5.0	0.1	2.10%	0.5% to 5.0%						20408	177+40.05	42.36	625.77
20406	20407	Sidewalk Running Slope	4	5.0	0.18	3.50%	0.5% to 5.0%						20409	177+45.05	42.44	625.73
20406	20411	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%						20410	177+45.11	37.43	625.55
20407	20408	Sidewalk Running Slope	4	5.0	0.18	3.60%	0.5% to 5.0%						20411	177+45.18	32.44	625.36
20407	20410	Sidewalk Cross Slope	4	5.0	-0.04	-0.90%	0.5% to 2.0%						20412	177+54.37	32.56	624.94
20408	20409	Match Existing Cross Slope	4	5.0	-0.04	-0.70%	Match Existing									
20409	20410	Sidewalk Running Slope	4	5.0	-0.18	-3.70%	0.5% to 5.0%									
20410	20411	Sidewalk Running Slope	4	5.0	-0.18	-3.70%	0.5% to 5.0%									
20411	20412	Ramp Running Slope	6	9.2	-0.42	-4.60%	0.5% to 8.3%									

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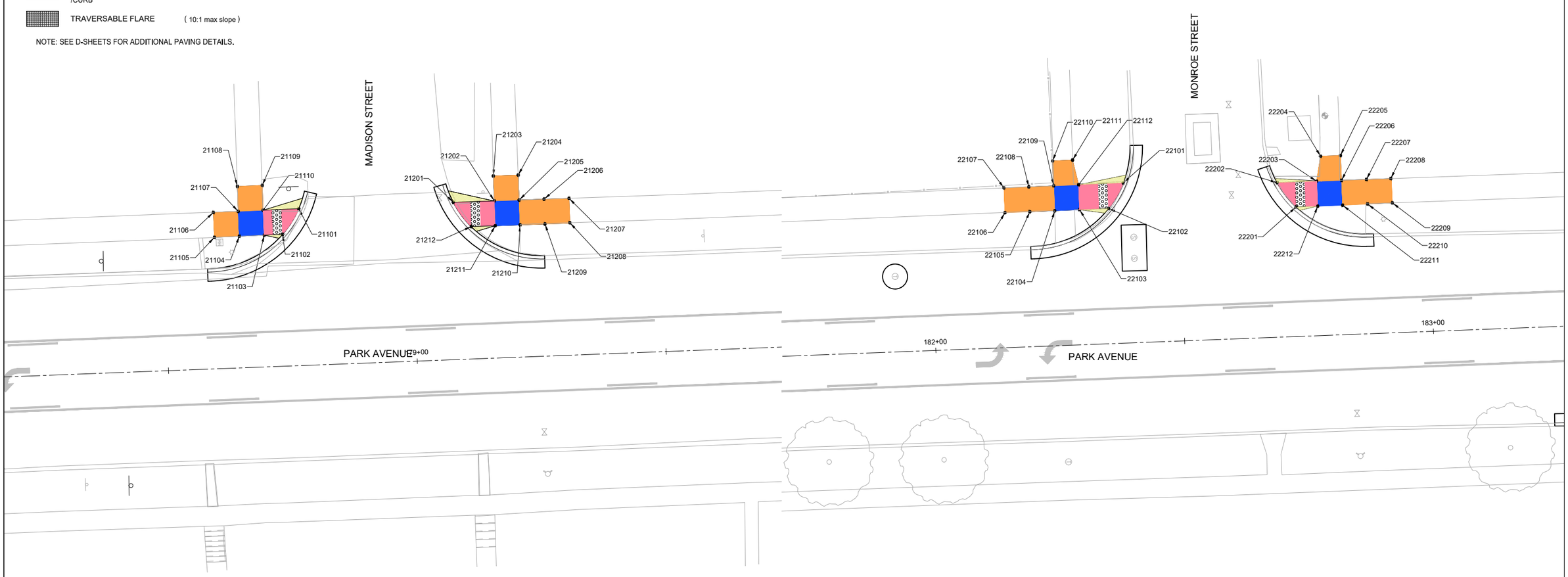
LEGEND

	CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET



Plot Date: 3/31/2020 9:43 AM
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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
21101	21102	Crosswalk Cross Slope - No Yield Condition	6	6.1	-0.04	-0.60%	0.0% to 5.0%					21101	17877.383	31.5	625.661
21101	21110	Ramp Running Slope	6	7.2	0.23	3.30%	0.5% to 8.3%					21102	17873.958	26.48	625.623
21102	21103	Ramp Running Slope	6	3.7	0.20	5.30%	0.5% to 8.3%					21103	17870.245	26.46	625.82
21103	21104	Landing/Turning Space	4	5.0	0.05	1.00%	0.1% to 2.0%					21104	17865.245	26.43	625.87
21103	21110	Ramp Cross Slope	6	5.0	0.07	1.50%	0.1% to 2.0%					21105	17860.245	26.41	625.858
21104	21105	Sidewalk Running Slope	4	5.0	-0.01	-0.20%	0.5% to 5.0%					21106	17860.219	31.41	625.928
21104	21107	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					21107	17865.219	31.42	625.945
21105	21106	Match Existing Cross Slope	4	5.0	0.07	1.40%	Match Existing					21108	17865.238	36.43	625.769
21106	21107	Sidewalk Running Slope	4	5.0	0.02	0.30%	0.5% to 5.0%					21109	17870.238	36.46	625.749
21107	21108	Sidewalk Running Slope	4	5.0	-0.18	-3.50%	0.5% to 5.0%					21110	17870.219	31.46	625.895
21107	21110	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%								
21108	21109	Match Existing Cross Slope	4	5.0	-0.02	-0.40%	Match Existing								
21109	21110	Sidewalk Running Slope	4	5.0	0.15	2.90%	0.5% to 5.0%								
21201	21202	Ramp Running Slope	6	8.2	0.45	5.50%	0.5% to 8.3%					21201	17908.446	31.59	625.741
21201	21212	Crosswalk Cross Slope - No Yield Condition	6	6.1	0.03	0.50%	0.0% to 5.0%					21202	17916.677	31.55	626.191
21202	21203	Sidewalk Running Slope	4	5.0	0.07	1.50%	0.5% to 5.0%					21203	17916.675	36.55	626.264
21202	21211	Ramp Cross Slope	6	5.0	-0.06	-1.20%	0.1% to 2.0%					21204	17921.675	36.54	626.308
21202	21205	Landing/Turning Space	4	5.0	0.06	1.20%	0.1% to 2.0%					21205	17921.677	31.54	626.251
21203	21204	Match Existing Cross Slope	4	5.0	0.04	0.90%	Match Existing					21206	17926.677	31.52	626.398
21204	21205	Sidewalk Running Slope	4	5.0	-0.06	-1.10%	0.5% to 5.0%					21207	17931.698	31.5	626.545
21205	21206	Sidewalk Running Slope	4	5.0	0.15	2.90%	0.5% to 5.0%					21208	17931.677	26.58	626.529
21205	21210	Landing/Turning Space	4	5.0	-0.06	-1.20%	0.1% to 2.0%					21209	17926.679	26.52	626.36
21206	21207	Sidewalk Running Slope	4	5.0	0.15	2.90%	0.5% to 5.0%					21210	17921.679	26.54	626.191
21206	21209	Sidewalk Cross Slope	4	5.0	-0.04	-0.80%	0.5% to 2.0%					21211	17916.679	26.55	626.131
21207	21208	Match Existing Cross Slope	4	4.9	-0.02	-0.30%	Match Existing					21212	17911.854	26.57	625.769
21208	21209	Sidewalk Running Slope	4	5.0	-0.17	-3.40%	0.5% to 5.0%								
21209	21210	Sidewalk Running Slope	4	5.0	-0.17	-3.40%	0.5% to 5.0%								
21210	21211	Landing/Turning Space	4	5.0	-0.06	-1.20%	0.1% to 2.0%								
21211	21212	Ramp Running Slope	6	4.8	-0.36	-7.50%	0.5% to 8.3%	Yes							
22101	22102	Crosswalk Cross Slope - No Yield Condition	6	5.9	0.07	1.10%	0.0% to 5.0%					22101	18238.889	32.16	626.222
22101	22112	Ramp Running Slope	6	9.0	0.58	6.50%	0.5% to 8.3%					22102	18235.766	27.15	626.289
22102	22103	Ramp Running Slope	6	5.8	0.44	7.50%	0.5% to 8.3%	Yes				22103	18229.926	27.13	626.727
22103	22104	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					22104	18224.934	27.08	626.803
22103	22112	Ramp Cross Slope	6	5.0	0.08	1.50%	0.1% to 2.0%					22105	18219.926	27.1	626.977
22104	22105	Sidewalk Running Slope	4	5.0	0.17	3.50%	0.5% to 5.0%				Slope required to match existing conditions	22106	18214.926	27.08	627.092
22104	22109	Landing/Turning Space	4	5.0	0.07	1.50%	0.1% to 2.0%					22107	18214.91	32.08	627.122
22105	22106	Sidewalk Running Slope	4	5.0	0.12	2.30%	0.5% to 5.0%					22108	18219.91	32.1	627.052
22105	22108	Sidewalk Cross Slope	4	5.0	0.08	1.50%	0.5% to 2.0%					22109	18224.91	32.12	626.877
22106	22107	Match Existing Cross Slope	4	5.0	0.03	0.60%	Match Existing					22110	18224.894	37.12	626.793
22107	22108	Sidewalk Running Slope	4	5.0	-0.07	-1.40%	0.5% to 5.0%					22111	18228.894	37.13	626.735
22108	22109	Sidewalk Running Slope	4	5.0	-0.18	-3.50%	0.5% to 5.0%					22112	18229.91	32.13	626.802
22110	22111	Match Existing Cross Slope	4	4.0	-0.06	-1.40%	Match Existing								
22201	22202	Crosswalk Cross Slope - No Yield Condition	6	6.2	0.07	1.10%	0.0% to 5.0%					22201	18273.38	26.01	626.027
22201	22212	Ramp Running Slope	6	4.4	0.33	7.50%	0.5% to 8.3%	Yes				22202	18269.78	31.02	626.093
22202	22203	Ramp Running Slope	6	7.9	0.34	4.20%	0.5% to 8.3%					22203	18277.717	31	626.429
22203	22204	Sidewalk Running Slope	4	5.1	0.17	3.30%	0.5% to 5.0%					22204	18278.689	36	626.596
22203	22206	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					22205	18282.689	35.99	626.546
22203	22212	Ramp Cross Slope	6	5.0	-0.07	-1.50%	0.1% to 2.0%					22206	18282.717	30.99	626.504
22204	22205	Match Existing Cross Slope	4	4.0	-0.05	-1.20%	Match Existing					22207	18287.716	30.98	626.526
22205	22206	Sidewalk Running Slope	4	5.0	-0.04	-0.80%	0.5% to 5.0%					22208	18292.62	30.97	626.508
22206	22207	Sidewalk Running Slope	4	5.0	0.02	0.40%	0.5% to 5.0%					22209	18292.745	26.08	626.277
22206	22211	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%					22210	18287.762	26.03	626.452
22207	22208	Sidewalk Running Slope	4	4.9	-0.02	-0.40%	0.5% to 5.0%					22211	18282.745	25.99	626.429
22207	22210	Sidewalk Cross Slope	4	5.0	-0.07	-1.50%	0.5% to 2.0%					22212	18277.744	25.99	626.354
22208	22209	Match Existing Cross Slope	4	4.9	-0.23	-4.70%	Match Existing								
22209	22210	Sidewalk Running Slope	4	5.0	0.17	3.50%	0.5% to 5.0%								
22210	22211	Sidewalk Running Slope	4	5.0	-0.02	-0.50%	0.5% to 5.0%								
22211	22212	Landing/Turning Space	4	5.0	-0.07	-1.50%	0.1% to 2.0%								

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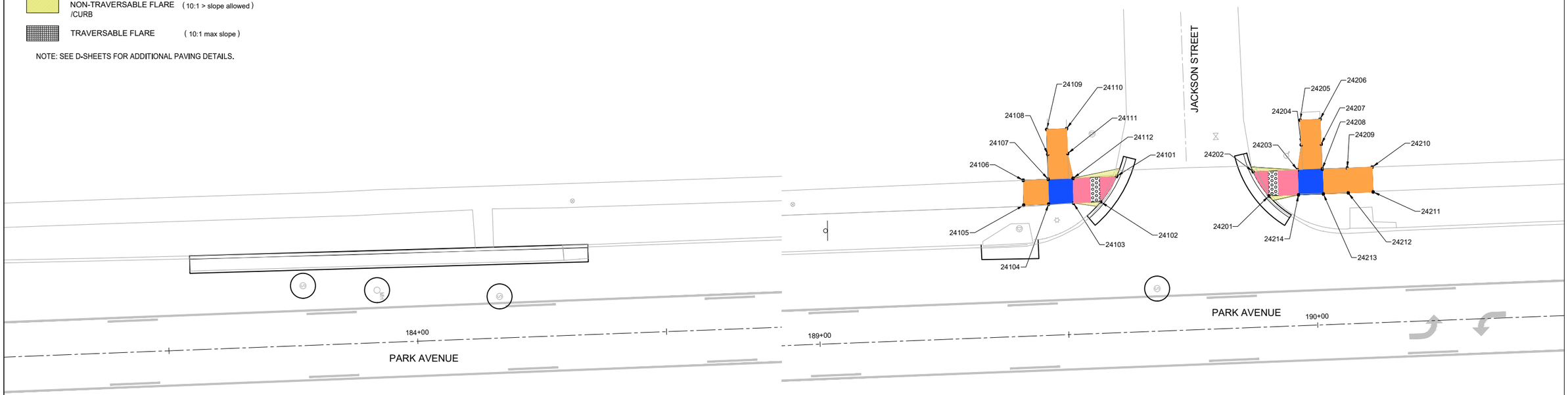
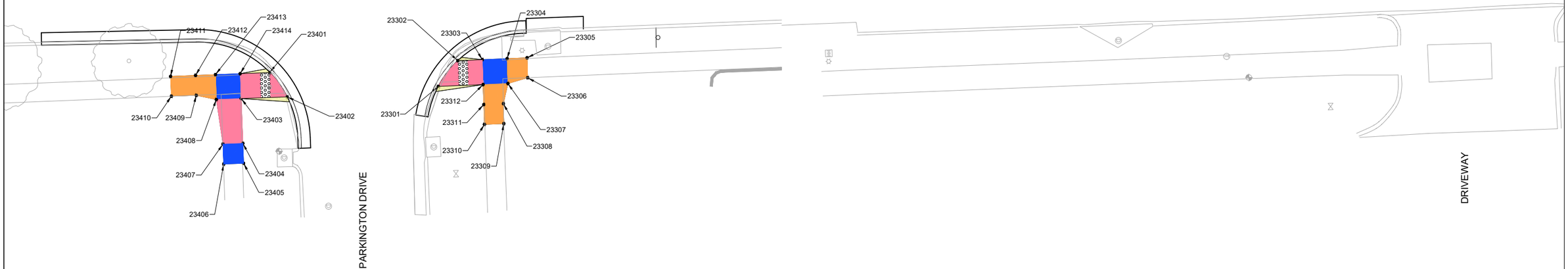
LEGEND

	CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET





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SH PROJECT NO. 3172470		SHIVEHATTERY ARCHITECTURE + ENGINEERING	222 Third Avenue Suite 300 | Cedar Rapids, Iowa 52401 319.364.0227 | fax: 319.364.4251 | shive-hattery.com	SIDEWALK PLAN	MUSCATINE	PROJECT NUMBER: STPN-038-1(15)--2J-70	SHEET NUMBER S.41

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
23301	23312	Ramp Running Slope	6	9.0	0.32	3.50%	0.5% to 8.3%					23302	18407.033	26.3	623.977
23302	23303	Ramp Running Slope	6	4.9	0.31	6.30%	0.5% to 8.3%					23303	18411.955	26.28	624.286
23303	23304	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					23304	18416.955	26.27	624.361
23303	23312	Ramp Cross Slope	6	5.0	0.08	1.50%	0.1% to 2.0%					23305	18420.956	26.25	624.341
23304	23305	Sidewalk Running Slope	4	4.0	-0.02	-0.50%	0.5% to 5.0%					23306	18420.922	30.25	624.336
23304	23307	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					23307	18416.913	31.27	624.436
23305	23306	Match Existing Cross Slope	4	4.0	0.00	-0.10%	Match Existing					23308	18415.846	35.27	624.5
23306	23307	Sidewalk Running Slope	4	4.1	0.10	2.40%	0.5% to 5.0%					23309	18415.785	39.27	624.543
23307	23308	Sidewalk Running Slope	4	4.1	0.06	1.50%	0.5% to 5.0%					23310	18411.891	39.28	624.52
23307	23312	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%					23311	18411.908	35.28	624.441
23308	23309	Sidewalk Running Slope	4	4.0	0.04	1.10%	0.5% to 5.0%					23312	18411.924	31.28	624.361
23308	23311	Sidewalk Cross Slope	4	3.9	-0.06	-1.50%	0.5% to 2.0%								
23309	23310	Match Existing Cross Slope	4	3.9	-0.02	-0.60%	Match Existing								
23310	23311	Sidewalk Running Slope	4	4.0	-0.08	-2.00%	0.5% to 5.0%								
23311	23312	Sidewalk Running Slope	4	4.0	-0.08	-2.00%	0.5% to 5.0%								
23401	23402	Crosswalk Cross Slope - No Yield Condition	6	6.0	-0.05	-0.80%	0.0% to 5.0%					23401	18369.178	27.22	624.628
23401	23414	Ramp Running Slope	6	5.9	0.44	7.40%	0.5% to 8.3%	Yes				23402	18372.514	32.24	624.579
23402	23403	Ramp Running Slope	6	9.2	0.56	6.10%	0.5% to 8.3%					23403	18363.284	32.22	625.143
23403	23404	Ramp Running Slope	6	9.0	0.56	6.30%	0.5% to 8.3%					23404	18363.266	41.22	625.708
23403	23408	Ramp Cross Slope	6	5.0	0.08	1.50%	0.1% to 2.0%					23405	18363.266	45.22	625.75
23403	23414	Ramp Cross Slope	6	5.0	-0.07	-1.50%	0.1% to 2.0%					23406	18359.266	45.22	625.757
23404	23405	Landing/Turning Space	4	4.0	0.04	1.10%	0.1% to 2.0%					23407	18359.271	41.22	625.768
23404	23407	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					23408	18358.281	32.22	625.219
23405	23406	Match Existing Cross Slope	4	4.0	0.01	0.20%	Match Existing					23409	18354.285	31.22	625.383
23406	23407	Landing/Turning Space	4	4.0	0.01	0.30%	0.1% to 2.0%					23410	18349.284	31.21	625.605
23407	23408	Ramp Running Slope	6	9.1	-0.55	-6.10%	0.5% to 8.3%					23411	18349.278	27.22	625.49
23408	23409	Sidewalk Running Slope	4	4.1	0.16	4.00%	0.5% to 5.0%					23412	18354.298	27.22	625.323
23408	23413	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%					23413	18358.299	27.21	625.143
23409	23410	Sidewalk Running Slope	4	5.0	0.22	4.40%	0.5% to 5.0%	Yes			Match general street grade	23414	18363.251	27.23	625.069
23409	23412	Sidewalk Cross Slope	4	4.0	-0.06	-1.50%	0.5% to 2.0%								
23410	23411	Match Existing Cross Slope	4	4.0	-0.12	-2.90%	Match Existing								
23411	23412	Sidewalk Running Slope	4	5.0	-0.17	-3.30%	0.5% to 5.0%								
23412	23413	Sidewalk Running Slope	4	4.0	-0.18	-4.50%	0.5% to 5.0%	Yes			Match general street grade				
23413	23414	Landing/Turning Space	4	5.0	-0.07	-1.50%	0.1% to 2.0%								
24101	24102	Crosswalk Cross Slope - No Yield Condition	6	6.1	0.03	0.50%	0.0% to 5.0%					24101	18960.795	31.4	618.801
24101	24112	Ramp Running Slope	6	8.8	0.51	5.80%	0.5% to 8.3%					24102	18957.398	26.39	618.829
24102	24103	Ramp Running Slope	6	5.5	0.41	7.50%	0.5% to 8.3%	Yes				24103	18951.93	26.33	619.238
24103	24104	Landing/Turning Space	4	5.0	0.07	1.50%	0.1% to 2.0%					24104	18946.929	26.34	619.313
24103	24112	Ramp Cross Slope	6	5.0	0.07	1.50%	0.1% to 2.0%					24105	18941.927	26.31	619.538
24104	24105	Sidewalk Running Slope	4	5.0	0.23	4.50%	0.5% to 5.0%	Yes			Match general street grade	24106	18942.036	31.31	619.617
24104	24107	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					24107	18947.038	31.34	619.388
24105	24106	Match Existing Cross Slope	4	5.0	0.08	1.60%	Match Existing					24108	18947.148	36.34	619.307
24106	24107	Sidewalk Running Slope	4	5.0	-0.23	-4.60%	0.5% to 5.0%	Yes			Match general street grade	24109	18947.124	41.34	619.247
24107	24108	Sidewalk Running Slope	4	5.0	-0.08	-1.60%	0.5% to 5.0%					24110	18951.126	41.36	619.067
24107	24112	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%					24111	18951.149	36.36	619.247
24108	24109	Sidewalk Running Slope	4	5.0	-0.06	-1.20%	0.5% to 5.0%					24112	18952.039	31.33	619.313
24108	24111	Sidewalk Cross Slope	4	4.0	-0.06	-1.50%	0.5% to 2.0%								
24109	24110	Match Existing Cross Slope	4	4.0	-0.18	-4.50%	Match Existing								
24110	24111	Sidewalk Running Slope	4	5.0	0.18	3.60%	0.5% to 5.0%								
24111	24112	Sidewalk Running Slope	4	5.1	0.07	1.30%	0.5% to 5.0%								
24201	24202	Crosswalk Cross Slope - No Yield Condition	6	5.8	-0.09	-1.50%	0.0% to 5.0%					24201	18991.204	26.29	618.946
24201	24214	Ramp Running Slope	6	6.9	0.52	7.50%	0.5% to 8.3%	Yes				24202	18988.23	31.29	618.859
24202	24203	Ramp Running Slope	6	9.9	0.66	6.70%	0.5% to 8.3%					24203	18998.116	31.28	619.517
24203	24204	Sidewalk Running Slope	4	5.0	-0.22	-4.40%	0.5% to 5.0%	Yes			Slope required to match existing conditions	24204	18998.086	36.28	619.298
24203	24208	Landing/Turning Space	4	4.0	0.06	1.50%	0.1% to 2.0%					24205	18998.055	41.26	619.163
24203	24214	Ramp Cross Slope	6	5.0	-0.05	-1.00%	0.1% to 2.0%					24206	19002.055	41.28	619.303
24204	24205	Sidewalk Running Slope	4	5.0	-0.13	-2.70%	0.5% to 5.0%					24207	19002.119	36.28	619.358
24204	24207	Sidewalk Cross Slope	4	4.0	0.06	1.50%	0.5% to 2.0%					24208	19002.116	31.28	619.577
24205	24206	Match Existing Cross Slope	4	4.0	0.14	3.50%	Match Existing					24209	19007.15	31.28	619.659
24206	24207	Sidewalk Running Slope	4	5.0	0.05	1.10%	0.5% to 5.0%					24210	19012.15	31.27	619.734
24207	24208	Sidewalk Running Slope	4	5.0	0.22	4.40%	0.5% to 5.0%	Yes			Match general street grade	24211	19012.147	26.27	619.616
24208	24209	Sidewalk Running Slope	4	5.0	0.08	1.60%	0.5% to 5.0%					24212	19007.147	26.28	619.584
24208	24213	Landing/Turning Space	4	5.0	-0.05	-1.10%	0.1% to 2.0%					24213	19002.147	26.25	619.523
24209	24210	Sidewalk Running Slope	4	5.0	0.08	1.50%	0.5% to 5.0%					24214	18998.147	26.28	619.467
24209	24212	Sidewalk Cross Slope	4	5.0	-0.08	-1.50%	0.5% to 2.0%								
24210	24211	Match Existing Cross Slope	4	5.0	-0.12	-2.40%	Match Existing								
24211	24212	Sidewalk Running Slope	4	5.0	-0.03	-0.60%	0.5% to 5.0%								
24212	24213	Sidewalk Running Slope	4	5.0	-0.06	-1.20%	0.5% to 5.0%								
24213	24214	Landing/Turning Space	4	4.0	-0.06	-1.40%	0.1% to 2.0%								

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LEGEND

	CURB RAMP	(8.3% max long. slope 2.0% max cross slope)
	TURNING SPACE	(2.0% max slope)
	PCC SIDEWALK, 6"	(5.0% max long. slope 2.0% max cross slope)
	DETECTABLE WARNINGS	(2' x 5' typical - fiberglass)
	NON-TRAVERSABLE FLARE /CURB	(10:1 > slope allowed)
	TRAVERSABLE FLARE	(10:1 max slope)

NOTE: SEE D-SHEETS FOR ADDITIONAL PAVING DETAILS.

0 5 10 20
SCALE IN FEET

CLAY STREET

PARK AVENUE

COLORADO STREET

196+00 197+00 198+00

R22.0 R35.0 R10.0

25101 25102 25103 25104 25105 25106 25107 25108 25109 25110 25111 25112 25113 25114 25115 25116 25117 25118 25119 25120 25121 25122 25123 25124 25125 25126 25127 25128 25129

25201 25202 25203 25204 25205 25206 25207 25208 25209 25210 25211 25212 25213 25214 25215 25216 25217 25218 25219 25220 25221 25222 25223 25224 25225 25226

25301 25302 25303 25304 25305 25306 25307 25308 25309 25310 25311 25312 25313 25314 25315 25316 25317 25318 25319 25320

25401 25402 25403 25404 25405 25406 25407 25408 25409 25410 25411 25412 25413 25414 25415 25416 25417 25418

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
25101	25102	Ramp Running Slope	6	6.3	0.33	5.30%	0.5% to 8.3%					25101	19643.259	20.88	623.132
25101	25129	Crosswalk Cross Slope - No Yield Condition	6	6.3	-0.01	-0.20%	0.0% to 5.0%					25102	19643.282	27.19	623.465
25102	25103	Ramp Running Slope	6	6.8	0.50	7.40%	0.5% to 8.3%	Yes				25103	19636.525	27.22	623.964
25102	25107	Ramp Cross Slope	6	4.2	0.06	1.50%	0.1% to 2.0%					25104	19631.553	27.22	624.037
25103	25104	Sidewalk Running Slope	4	5.0	0.07	1.50%	0.5% to 5.0%					25105	19631.556	31.05	624.224
25103	25106	Ramp Cross Slope	6	4.0	0.06	1.50%	0.1% to 2.0%					25106	19636.557	31.2	624.023
25104	25105	Match Existing Cross Slope	4	3.8	0.19	4.90%	Match Existing					25107	19643.297	31.4	623.528
25105	25106	Sidewalk Running Slope	4	5.0	-0.20	-4.00%	0.5% to 5.0%					25108	19644.766	31.45	623.519
25106	25107	Ramp Running Slope	6	6.7	-0.50	-7.30%	0.5% to 8.3%					25109	19644.758	31.95	623.516
25107	25108	Landing/Turning Space	4	1.5	-0.01	-0.60%	0.1% to 2.0%					25110	19644.658	38.61	623.885
25108	25109	Landing/Turning Space	4	0.5	0.00	-0.60%	0.1% to 2.0%					25111	19648.538	38.6	623.805
25109	25110	Ramp Running Slope	6	6.7	0.37	5.50%	0.5% to 8.3%					25112	19648.648	32.06	623.491
25109	25112	Ramp Cross Slope	6	3.9	-0.02	-0.60%	0.1% to 2.0%					25113	19649.3	32.22	623.481
25110	25111	Match Existing Cross Slope	4	3.9	-0.08	-2.10%	Match Existing					25114	19658.815	37.75	623.325
25111	25112	Ramp Running Slope	6	6.5	-0.31	-4.80%	0.5% to 8.3%					25115	19663.872	45.45	623.194
25112	25113	Landing/Turning Space	4	0.7	-0.01	-1.50%	0.1% to 2.0%					25116	19665.28	51.44	623.113
25113	25114	Sidewalk Running Slope	4	11.0	-0.16	-1.40%	0.5% to 5.0%					25117	19665.374	62.19	623.902
25113	25128	Landing/Turning Space	4	5.9	-0.09	-1.50%	0.1% to 2.0%					25118	19665.384	67.12	624.264
25114	25115	Sidewalk Running Slope	4	9.2	-0.13	-1.40%	0.5% to 5.0%					25119	19669.274	67.11	624.085
25115	25116	Landing/Turning Space	4	6.2	-0.08	-1.30%	0.1% to 2.0%					25120	19669.259	62.2	623.86
25115	25124	Landing/Turning Space	4	5.9	-0.09	-1.50%	0.1% to 2.0%					25121	19669.819	51.42	623.045
25116	25117	Ramp Running Slope	6	10.8	0.79	7.30%	0.5% to 8.3%					25122	19673.602	51.41	622.932
25116	25121	Ramp Cross Slope	6	4.5	-0.07	-1.50%	0.1% to 2.0%					25123	19671.797	45.42	622.955
25117	25118	Sidewalk Running Slope	4	4.9	0.36	7.30%	0.5% to 8.3%				Slope required to match existing conditions	25124	19669.796	45.42	623.105
25118	25119	Match Existing Cross Slope	4	3.9	-0.18	-4.60%	Match Existing					25125	19669.686	40.86	623.311
25119	25120	Sidewalk Running Slope	4	4.9	-0.23	-4.60%	0.5% to 5.0%	Yes			Slope required to match existing conditions	25126	19663.635	32.49	623.54
25120	25121	Ramp Running Slope	6	10.8	-0.82	-7.60%	0.5% to 8.3%	Yes				25127	19653.968	24.96	623.637
25121	25122	Ramp Running Slope	6	3.8	-0.11	-3.00%	0.5% to 8.3%					25128	19649.279	26.37	623.393
25121	25124	Ramp Cross Slope	6	6.0	0.06	1.00%	0.1% to 2.0%					25129	19649.266	22.73	623.12
25122	25123	Crosswalk Cross Slope - Yield Condition	6	6.3	0.02	0.40%	0.0% to 2.0%								
25123	25124	Ramp Running Slope	6	2.0	0.15	7.50%	0.5% to 8.3%	Yes							
25124	25125	Sidewalk Running Slope	4	4.6	0.21	4.50%	0.5% to 5.0%	Yes			Match general street grade				
25125	25126	Sidewalk Running Slope	4	10.3	0.23	2.20%	0.5% to 5.0%								
25126	25127	Sidewalk Running Slope	4	12.3	0.10	0.80%	0.5% to 5.0%								
25127	25128	Sidewalk Running Slope	4	4.9	-0.24	-5.00%	0.5% to 5.0%	Yes			Proposed slope is maximum allowed				
25128	25129	Ramp Running Slope	6	3.6	-0.27	-7.50%	0.5% to 8.3%	Yes							

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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
25201	25202	Ramp Running Slope	6	12.0	0.79	6.60%	0.5% to 8.3%					25201	19719.02	53.41	622.392
25201	25226	Crosswalk Cross Slope - No Yield Condition	6	10.2	-0.15	-1.50%	0.0% to 5.0%					25202	19716.068	65.05	623.187
25202	25203	Ramp Cross Slope	6	3.8	-0.01	-0.30%	0.1% to 2.0%					25203	19719.906	65.04	623.176
25203	25204	Landing/Turning Space	4	9.6	0.14	1.50%	0.1% to 2.0%					25204	19719.697	74.61	623.32
25203	25208	Ramp Cross Slope	6	3.8	-0.01	-0.30%	0.1% to 2.0%					25205	19719.695	84.61	623.545
25204	25205	Sidewalk Running Slope	4	10.0	0.22	2.20%	0.5% to 5.0%					25206	19723.78	84.61	623.629
25204	25207	Landing/Turning Space	4	4.1	-0.01	-0.30%	0.1% to 2.0%					25207	19723.78	74.61	623.309
25205	25206	Match Existing Cross Slope	4	4.1	0.08	2.10%	Match Existing					25208	19723.745	65.02	623.165
25206	25207	Sidewalk Running Slope	4	10.0	-0.32	-3.20%	0.5% to 5.0%					25209	19725.418	55.48	622.436
25207	25208	Landing/Turning Space	4	9.6	-0.14	-1.50%	0.1% to 2.0%					25210	19729.039	47.69	622.283
25208	25209	Ramp Running Slope	6	9.7	-0.73	-7.50%	0.5% to 8.3%	Yes				25211	19732.207	43.39	622.133
25209	25210	Landing/Turning Space	6	8.6	-0.15	-1.80%	0.1% to 2.0%	Yes			Match curb profile	25212	19738.101	37.95	621.83
25209	25201	Ramp Cross Slope	6	6.7	-0.04	-0.70%	0.1% to 2.0%					25213	19742.88	35.02	621.64
25210	25226	Landing/Turning Space	6	6.4	-0.04	-0.70%	0.1% to 2.0%					25214	19747.174	33.19	621.603
25210	25211	Sidewalk Running Slope	4	5.3	-0.15	-2.80%	0.5% to 5.0%					25215	19755.729	31.36	622.091
25211	25212	Sidewalk Running Slope	4	8.0	-0.30	-3.80%	0.5% to 5.0%					25216	19759.716	31.23	622.129
25212	25213	Sidewalk Running Slope	4	5.6	-0.19	-3.40%	0.5% to 5.0%					25217	19763.716	31.25	622.268
25213	25214	Landing/Turning Space	6	4.7	-0.04	-0.80%	0.1% to 2.0%					25218	19763.732	27.14	622.114
25213	25223	Landing/Turning Space	6	7.0	-0.11	-1.50%	0.1% to 2.0%					25219	19759.732	27.13	622.067
25214	25215	Ramp Running Slope	6	8.7	0.49	5.60%	0.5% to 8.3%					25220	19755.732	27.13	622.027
25214	25221	Ramp Cross Slope	6	6.1	-0.09	-1.50%	0.1% to 2.0%					25221	19747.152	27.1	621.512
25215	25216	Landing/Turning Space	4	4.0	0.04	1.00%	0.1% to 2.0%					25222	19747.159	24.98	621.48
25215	25220	Ramp Cross Slope	6	4.2	-0.06	-1.50%	0.1% to 2.0%					25223	19739.14	29.05	621.534
25216	25217	Sidewalk Running Slope	4	4.0	0.14	3.50%	0.5% to 5.0%					25224	19734.184	32.58	621.731
25216	25219	Landing/Turning Space	4	4.1	-0.06	-1.50%	0.1% to 2.0%					25225	19727.398	39.25	622.038
25217	25218	Match Existing Cross Slope	4	4.1	-0.15	-3.70%	Match Existing					25226	19723.66	44.3	622.241
25218	25219	Sidewalk Running Slope	4	4.0	-0.05	-1.20%	0.5% to 5.0%								
25219	25220	Landing/Turning Space	4	4.0	-0.04	-1.00%	0.1% to 2.0%								
25220	25221	Ramp Running Slope	6	8.6	-0.52	-6.00%	0.5% to 8.3%								
25221	25222	Landing/Turning Space	6	2.1	-0.03	-1.50%	0.1% to 2.0%								
25222	25223	Crosswalk Cross Slope - No Yield Condition	6	9.0	0.05	0.60%	0.0% to 5.0%								
25223	25224	Sidewalk Running Slope	4	6.1	0.20	3.20%	0.5% to 5.0%								
25224	25225	Sidewalk Running Slope	4	9.5	0.31	3.20%	0.5% to 5.0%								
25225	25226	Sidewalk Running Slope	4	6.3	0.20	3.20%	0.5% to 5.0%								
25301	25302	Ramp Running Slope	6	8.2	0.40	4.90%	0.5% to 8.3%					25301	19746.202	25.38	621.571
25301	25320	Crosswalk Cross Slope - No Yield Condition	6	6.4	0.11	1.70%	0.0% to 5.0%					25302	19746.227	33.56	621.973
25302	25303	Landing/Turning Space	4	5.0	0.08	1.50%	0.1% to 2.0%					25303	19746.243	38.56	622.048
25302	25319	Ramp Cross Slope	6	6.0	0.09	1.50%	0.1% to 2.0%					25304	19740.243	38.57	622.138
25303	25304	Landing/Turning Space	4	6.0	0.09	1.50%	0.1% to 2.0%					25305	19731.908	41.45	622.267
25304	25305	Landing/Turning Space	4	8.8	0.13	1.50%	0.1% to 2.0%					25306	19728.925	48.39	622.39
25305	25306	Landing/Turning Space	4	7.6	0.12	1.60%	0.1% to 2.0%	Yes			Match curb profile	25307	19728.86	51.82	622.425
25305	25318	Landing/Turning Space	4	5.1	-0.06	-1.20%	0.1% to 2.0%					25308	19728.67	61.86	623.106
25306	25307	Landing/Turning Space	4	3.4	0.03	1.00%	0.1% to 2.0%					25309	19728.614	66.84	623.156
25307	25308	Ramp Running Slope	6	10.0	0.68	6.80%	0.5% to 8.3%					25310	19728.56	71.84	623.231
25307	25314	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%					25311	19723.65	71.78	623.126
25308	25309	Landing/Turning Space	4	5.0	0.05	1.00%	0.1% to 2.0%					25312	19723.615	66.79	623.081
25308	25313	Ramp Cross Slope	6	5.0	-0.08	-1.50%	0.1% to 2.0%					25313	19723.671	61.77	623.03
25309	25310	Sidewalk Running Slope	4	5.0	0.08	1.50%	0.5% to 5.0%					25314	19723.859	51.81	622.349
25309	25312	Landing/Turning Space	4	5.0	-0.07	-1.50%	0.1% to 2.0%					25315	19719.486	51.7	622.241
25310	25311	Match Existing Cross Slope	4	4.9	-0.11	-2.10%	Match Existing					25316	19721.894	45.76	622.131
25311	25312	Sidewalk Running Slope	4	5.0	-0.04	-0.90%	0.5% to 5.0%					25317	19724.007	45.81	622.289
25312	25313	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%					25318	19729.327	37.05	622.208
25313	25314	Ramp Running Slope	6	10.0	-0.68	-6.80%	0.5% to 8.3%					25319	19740.227	33.57	622.063
25314	25315	Sidewalk Running Slope	4	4.4	-0.11	-2.50%	0.5% to 5.0%					25320	19740.209	27.7	621.681
25314	25317	Ramp Cross Slope	6	6.0	-0.06	-1.00%	0.1% to 2.0%								
25315	25316	Crosswalk Cross Slope - No Yield Condition	6	6.4	-0.11	-1.70%	0.0% to 5.0%								
25316	25317	Ramp Running Slope	6	2.1	0.16	7.50%	0.5% to 8.3%	Yes							
25317	25318	Landing/Turning Space	4	10.2	-0.08	-0.80%	0.1% to 2.0%								
25318	25319	Landing/Turning Space	4	11.4	-0.14	-1.30%	0.1% to 2.0%								
25319	25320	Ramp Running Slope	6	5.9	-0.38	-6.50%	0.5% to 8.3%								

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SIDEWALK COMPLIANCE

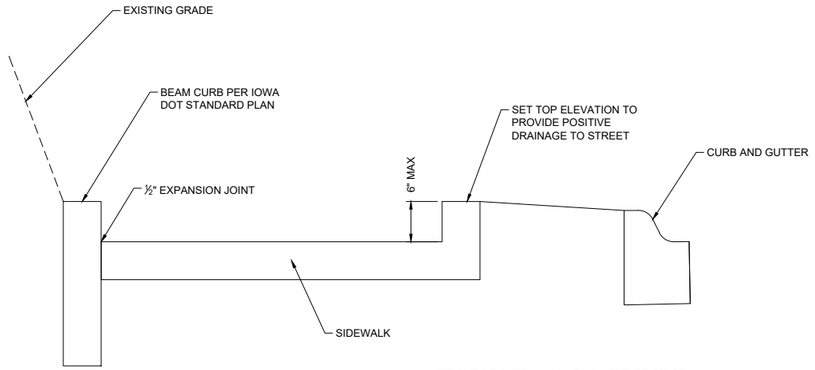
See S Sheets

* Does not include curb

Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

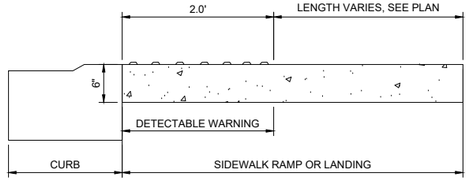
Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
													Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%							
25401	25402	Crosswalk Cross Slope - No Yield Condition	6	8.5	-0.08	-0.90%	0.0% to 5.0%						25401	19657.865	44.18	622.892
25401	25418	Ramp Running Slope	6	8.4	0.34	4.10%	0.5% to 8.3%						25402	19663.675	50.32	622.815
25402	25403	Ramp Running Slope	6	14.2	0.51	3.60%	0.5% to 8.3%						25403	19649.482	49.97	623.324
25403	25404	Ramp Running Slope	6	9.6	0.54	5.60%	0.5% to 8.3%						25404	19651.426	59.42	623.863
25403	25418	Ramp Cross Slope	6	6.0	-0.09	-1.50%	0.1% to 2.0%						25405	19652.956	64.18	623.872
25403	25408	Landing/Turning Space	4	5.0	0.05	1.00%	0.1% to 2.0%						25406	19648.416	65.64	623.934
25404	25405	Landing/Turning Space	4	5.0	0.01	0.20%	0.1% to 2.0%						25407	19646.886	60.88	623.884
25404	25407	Ramp Cross Slope	6	4.8	0.02	0.40%	0.1% to 2.0%						25408	19644.504	50.64	623.374
25405	25406	Match Existing Cross Slope	4	4.8	0.06	1.30%	Match Existing						25409	19641.376	45.28	623.351
25406	25407	Landing/Turning Space	4	5.0	-0.05	-1.00%	0.1% to 2.0%						25410	19636.812	43.29	623.584
25407	25408	Ramp Running Slope	6	10.5	-0.51	-4.90%	0.5% to 8.3%						25411	19632.012	41.98	623.818
25408	25409	Landing/Turning Space	4	6.2	-0.02	-0.40%	0.1% to 2.0%						25412	19633.105	37.2	623.682
25409	25410	Sidewalk Running Slope	4	5.0	0.23	4.70%	0.5% to 5.0%	Yes			Match general street grade		25413	19638.406	38.59	623.51
25409	25414	Landing/Turning Space	4	5.0	-0.08	-1.50%	0.1% to 2.0%						25414	19643.453	40.74	623.276
25410	25411	Sidewalk Running Slope	4	5.0	0.23	4.70%	0.5% to 5.0%	Yes			Match general street grade		25415	19643.436	35.17	623.046
25410	25413	Sidewalk Cross Slope	4	5.0	-0.07	-1.50%	0.5% to 2.0%						25416	19649.445	38.11	622.986
25411	25412	Match Existing Cross Slope	4	4.9	-0.14	-2.80%	Match Existing						25417	19649.453	40.77	623.186
25412	25413	Sidewalk Running Slope	4	5.5	-0.17	-3.10%	0.5% to 5.0%						25418	19649.463	43.97	623.234
25413	25414	Sidewalk Running Slope	4	5.5	-0.23	-4.30%	0.5% to 5.0%	Yes			Match general street grade					
25414	25415	Ramp Running Slope	6	5.6	-0.23	-4.10%	0.5% to 8.3%									
25414	25417	Ramp Cross Slope	6	6.0	-0.09	-1.50%	0.1% to 2.0%									
25415	25416	Crosswalk Cross Slope - No Yield Condition	6	6.7	-0.06	-0.90%	0.0% to 5.0%									
25416	25417	Ramp Running Slope	6	2.7	0.20	7.50%	0.5% to 8.3%	Yes								
25417	25418	Landing/Turning Space	4	3.2	0.05	1.50%	0.1% to 2.0%									

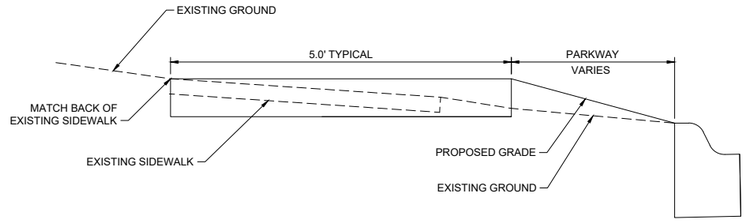


HEIGHT OF CURB WILL VARY AS ELEVATION OF SIDEWALK CHANGES ALONG RAMP.

SIDEWALK WITH BEAM OR INTEGRAL CURB



6" SIDEWALKS FOR DETECTABLE WARNINGS AT LANDINGS



SIDEWALK TYPICAL SECTION