



CITY OF ANN ARBOR PROJECT MANAGEMENT

COLONY RD, ESSEX RD, AND MANCHESTER RD CONCRETE PAVEMENT REPAIRS

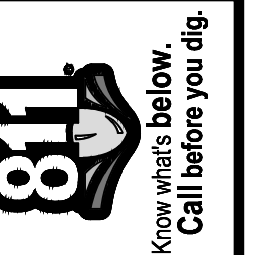
BID No. 4379, FILE No. 2015024

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

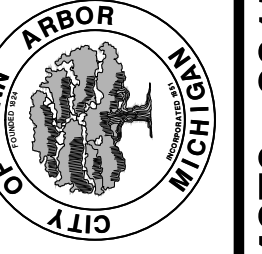
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING REFERENCED M.D.O.T. PUBLICATIONS) AND THIS PROJECT'S CONTRACT DOCUMENTS.



REV.	DATE	DESCRIPTION
02	6-11-15	ADDENDUM #2
01	3-31-2015	BID SET
00	2-27-2015	REVIEW 1
		DRAWN
		CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
www.aagov.org



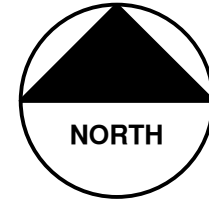
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
CONCRETE PAVEMENT REPAIRS

SCALE
DRAWING No.
2015024-1
SHEET No.
1 OF 27

© COLONY ESSEX MANCHESTER CONCRETE PAVEMENT REPAIR; BID No. 4379; 2015024

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VICINITY MAP

PROJECT MANAGEMENT SERVICE UNIT

PREPARED UNDER THE SUPERVISION OF

David Arthur Dykman
DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912
PROJECT MANAGER

3 / 30 / 2015
DATE

CONSTRUCTION NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked unless approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specification.
5. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
6. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
7. The location of material stock piles and on-site staging areas to be approved by the Engineer.
8. All structures within concrete pavement repairs areas shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
9. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
10. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
11. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "General Conditions."

SOIL EROSION & SEDIMENT CONTROL GENERAL NOTES:

NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
5. ALL MUD/DIRT TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, AND INLET FILTERS ON EXISTING DRAINAGE FEATURES PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. COMPLETE ALL GRADING AND FINE GRADING.
- 1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. CLEAN OUT STORM SEWER SYSTEMS.
- 1.9. REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES UPON FINAL INSPECTION AND APPROVAL BY THE ENGINEER.
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

TREE PROTECTION

1. CONTRACTOR SHALL NOT STORE OR PLACE EQUIPMENT AND/OR MATERIALS INSIDE DRIP LINE OF ANY CITY TREE. MECHANICAL DAMAGE TO CITY OWNED TREES (I.E. BARK DAMAGE, BRANCH BREAKAGE) IS NOT PERMITTED. CONTRACTOR IS RESPONSIBLE FOR PROPERLY PRUNING TREES TO PREVENT DAMAGE. IF BRANCHES GREATER THAN 2" IN DIAMETER REQUIRE PRUNING, CONTRACTOR TO CONTACT FORESTRY FOR CONSULTATION AND EVALUATION AT (734) 794-6350. NO ROOTS OF CITY-OWNED TREES GREATER THAN 2 INCHES IN DIAMETER ARE TO BE CUT. IF CONTRACTOR ENCOUNTERS CITY-OWNED TREES WITH ROOTS GREATER THAN 2 INCHES IN DIAMETER THAT THEY DETERMINE NEED TO BE CUT, CONTACT FORESTRY IMMEDIATELY FOR EVALUATION. ALL TRENCHING AND BORE PITS OF ANY KIND SHALL BE CLEAR OF TREE DRIP LINES. IF ANY CITY-OWNED STREET TREES ARE DAMAGED BY THIS WORK, THE CONTRACTOR MUST CONTACT FORESTRY AS SOON AS POSSIBLE SO THAT THE DAMAGE CAN BE ASSESSED. CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAMAGE REMEDIATION.

EXISTING LEGEND

	FIRE HYDRANT		WATER MAIN
	GATE VALVE IN BOX		STORM SEWER
	GATE VALVE IN WELL		SANITARY SEWER
	STOP BOX		GAS MAIN
	WATER VAULT		ELECTRICAL OVER HEAD
	WELL		ELECTRICAL UNDER GROUND
	CATCH BASIN (SQ)		BOUNDARY
	CATCH BASIN (RD)		BUILDING
	STORM MANHOLE		CENTERLINE OF DITCH
	NON-CURB CATCH BASIN (SQ)		CENTERLINE/CROWN OF ROAD
	SANITARY MANHOLE		EDGE OF WATER
	CLEAN-OUT		FENCE
	POST		GRAVEL
	PEDESTRIAN SIGNAL		STONE WALL
	SIGN		R.O.W.
	HAND HOLE		TREE LINE
	ORNAMENTAL LIGHT		WETLAND
	FLOOD LIGHT		TREE (DECIDUOUS)
	UNKNOWN MANHOLE		TREE (CONIFEROUS)
	TELEPHONE MANHOLE		STUMP
	TELEPHONE RISER		SHRUB (DECIDUOUS)
	GAS VALVE		
	GAS VENT		
	GAS BOX		
	ELECTRICAL RISER		
	TRANSFORMER		
	UTILITY POLE		
	LAMP POLE		
	GUY ANCHOR		
	GUY POLE		
	MONITORING WELL		
	MAILBOX		
	SOIL BORING		
	TRAVERSE POINT		
	BENCH MARK		
	IRON PIPE		
	MON BOX		

PROPOSED LEGEND

	HYDRANT (PLAN)		WATER MAIN
	WATER GATE WELL		STORM SEWER
	REDUCER		SANITARY SEWER
	WATER GATE VALVE		CENTERLINE OF DITCH
	WATER STOP BOX		CENTERLINE OF ROAD
	WATER VAULT		FENCE
	INLET		SILT FENCE
	DOUBLE INLET		LOT/UNIT
	INLET JUNCTION CHAMBER		CURB
	ROUND CATCH BASIN		TEMPORARY GRADING PERMIT
	STORM MANHOLE		WATER EASEMENT
	DRAIN ARROW		STORM EASEMENT
	FLARED END SECTION		SANITARY EASEMENT
	SANITARY MANHOLE		R.O.W.
	CLEAN-OUT		LIMITS OF CONSTRUCTION
	BARREL		STONE WALL
	SIGN		DETECTABLE WARNING
	PUSH BUTTON		ASPHALT
			CONCRETE
			SIDEWALK
			TREE (DECIDUOUS)
			TREE (CONIFEROUS)

Know what's below.
Call before you dig.

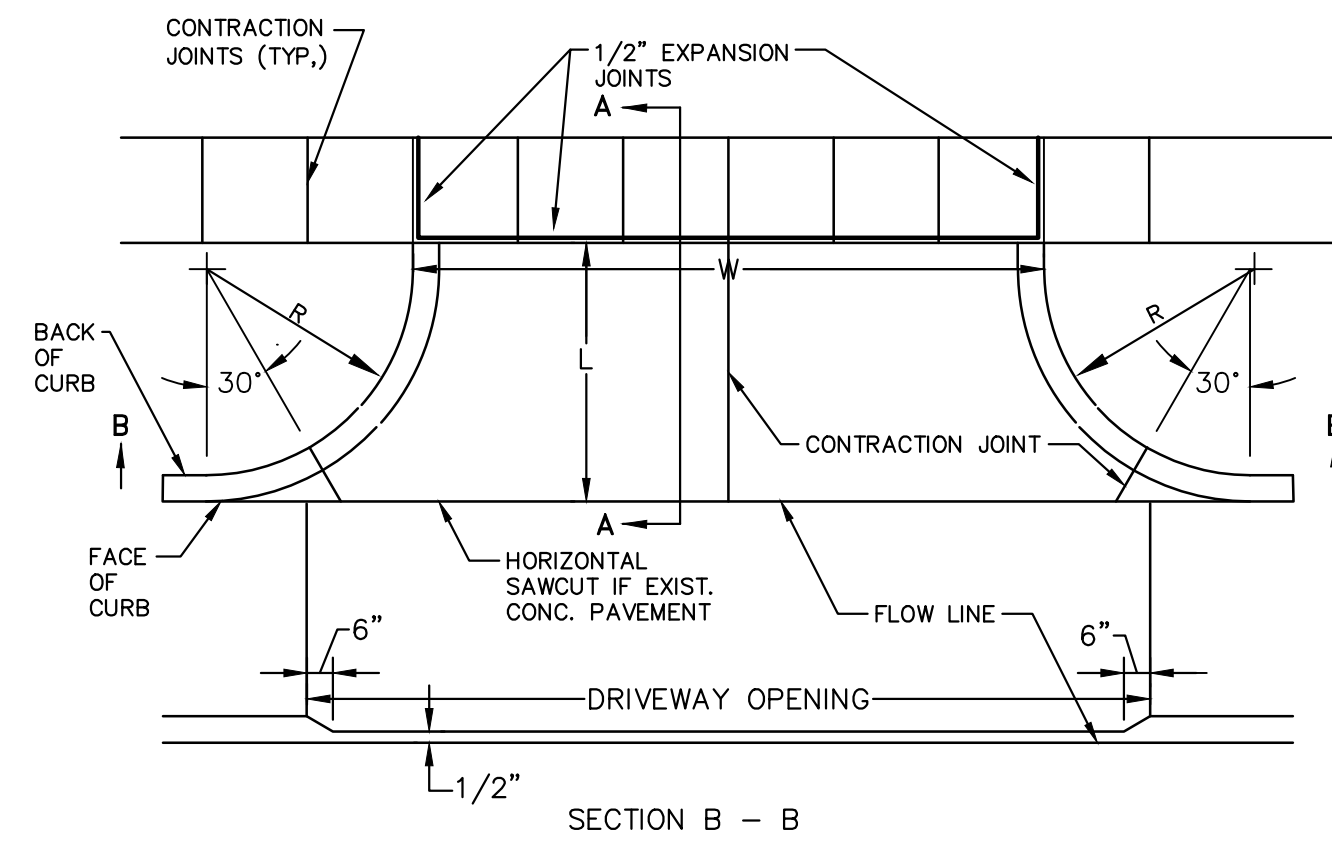
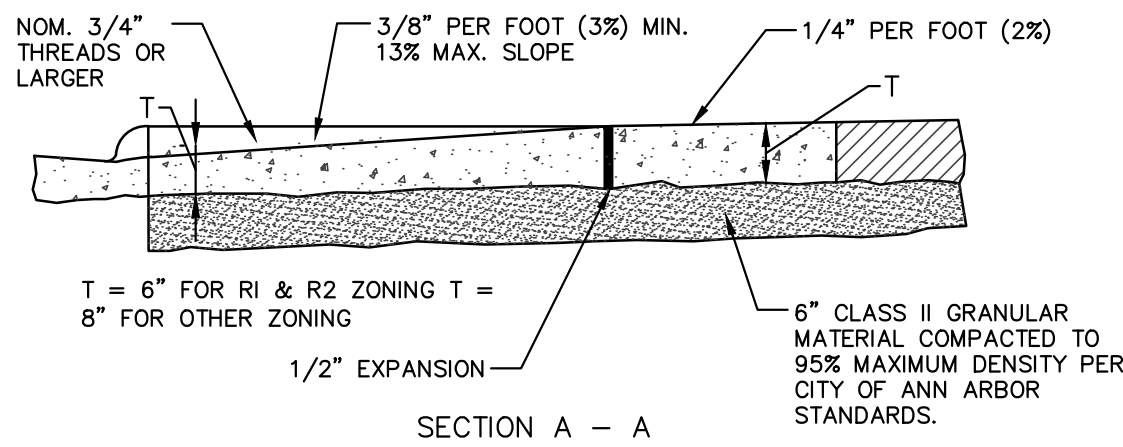
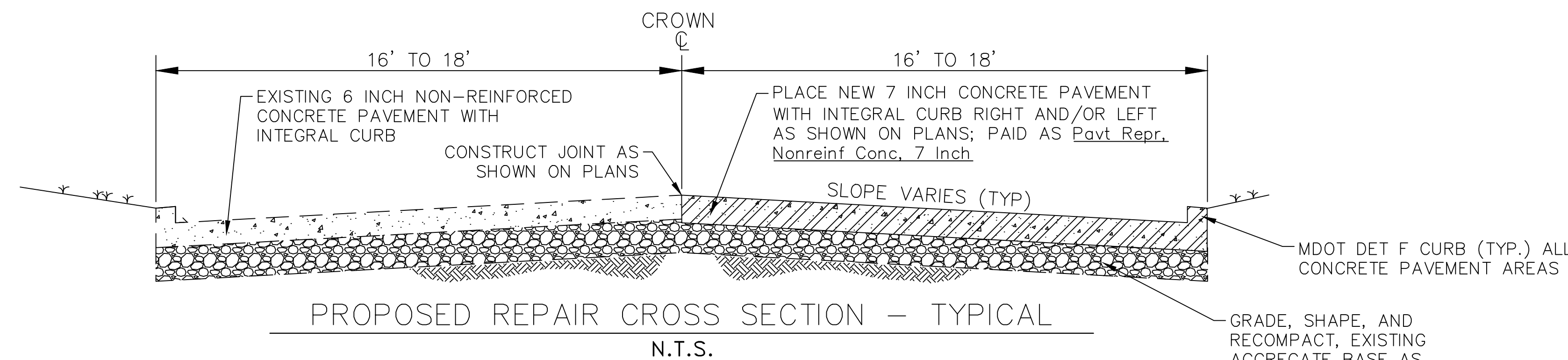
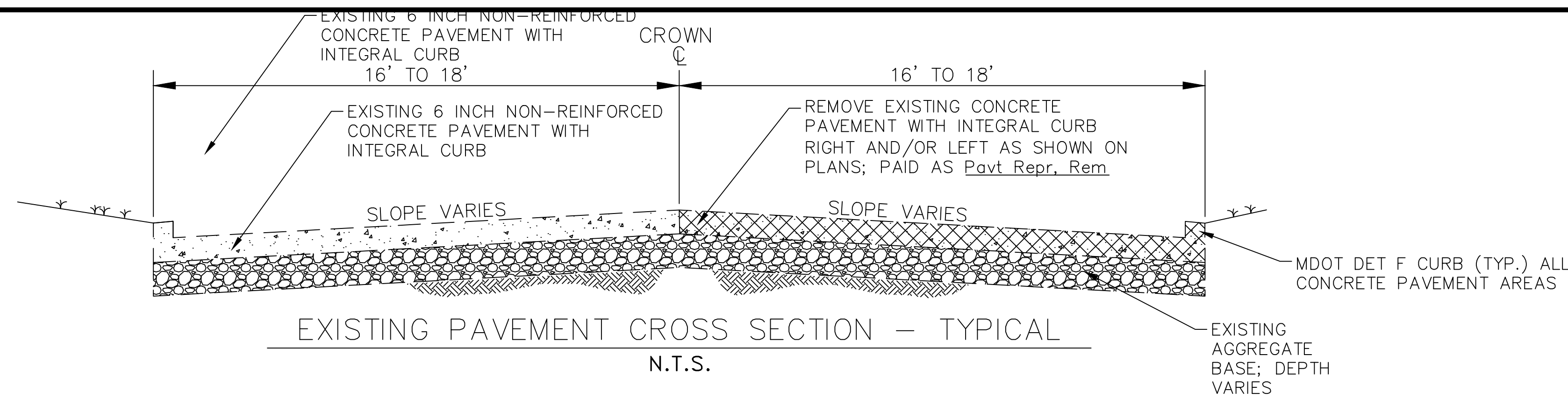
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	6-11-15	3-31-2015	2-27-2015	DATE					
	ADDENDUM #2	BID SET	REVIEW 1	DESCRIPTION					
02	01	00	REV.						

CITY OF ANN ARBOR
PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 8647
 ANN ARBOR, MI 48108-8647
 www.a3gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 NOTES AND LEGEND

SCALE PLAN: #####
 DRAWING No. 2015024-2
 SHEET No. 2 OF 27

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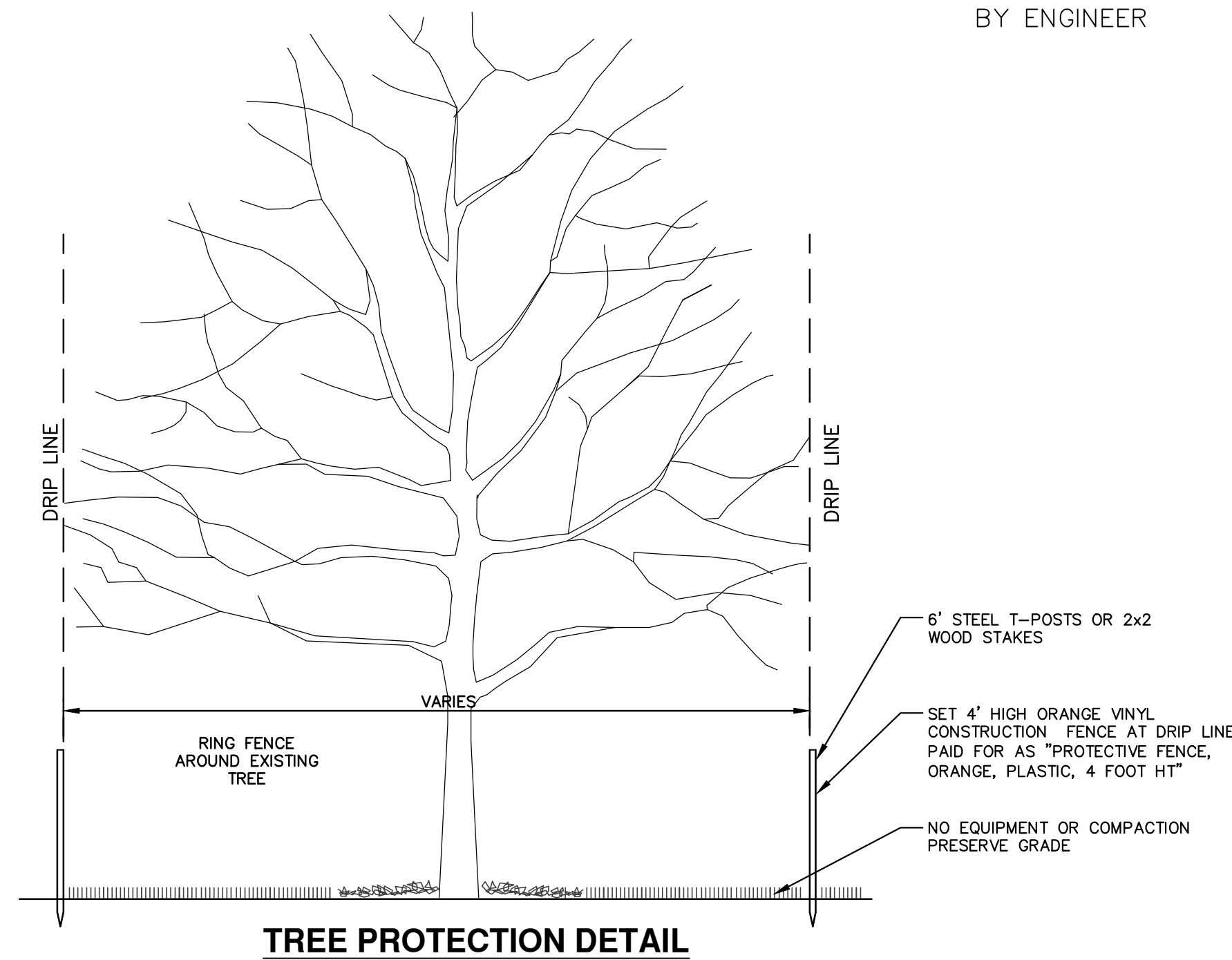


MEASUREMENT OF AREA:
W x L = AREA

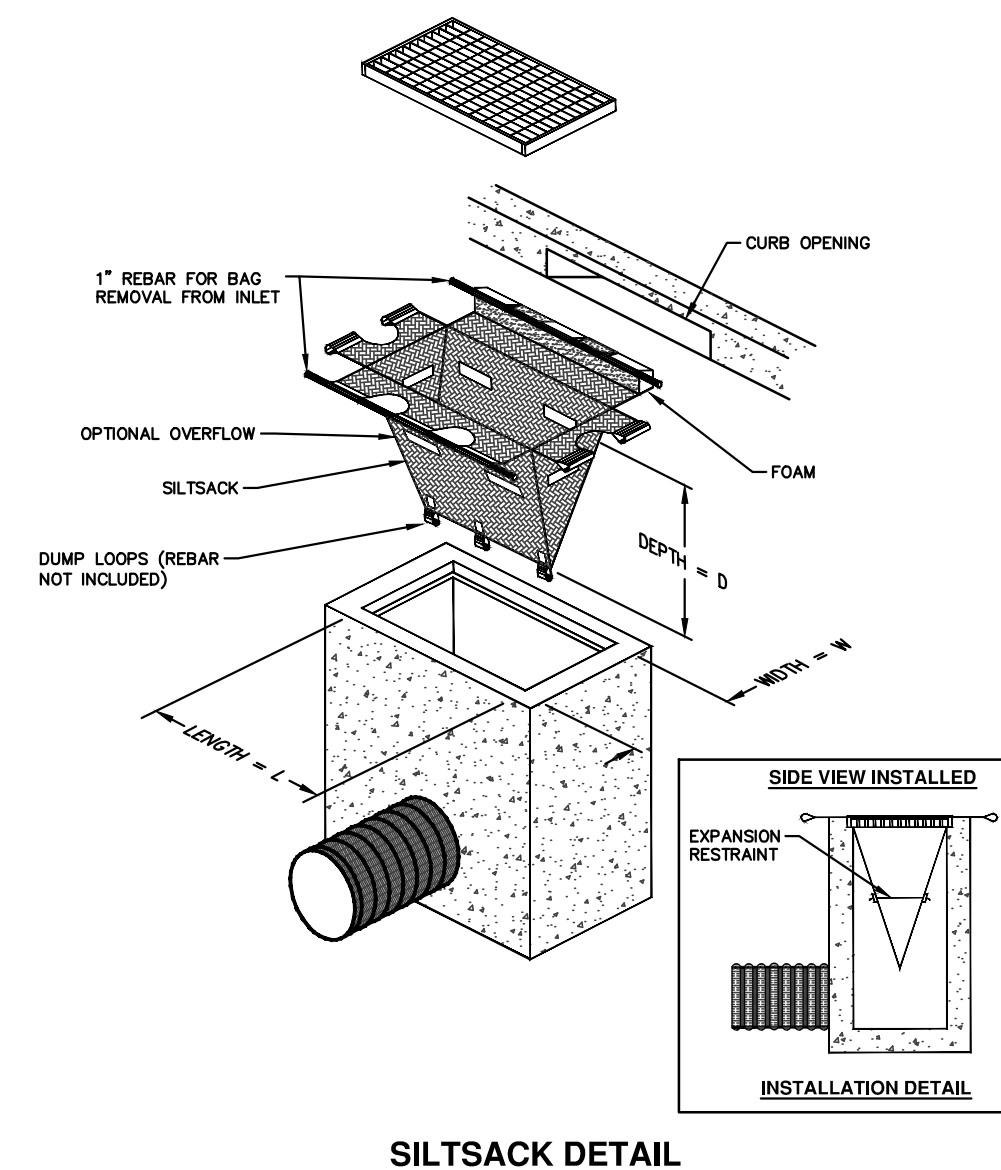
NOTE: R(RADIUS) AND W(DRIVE WIDTH) AS REQUIRED FOR ZONING BY CITY CODE.

NOTE: DRIVE APPROACH TO BE CLASS 'A' CONCRETE.

DRIVEWAY OPENING/APPROACH DETAIL



CONTRACTOR SHALL NOT STORE OR PLACE EQUIPMENT AND/OR MATERIALS INSIDE DRIP LINE OF ANY CITY TREE. MECHANICAL DAMAGE TO CITY OWNED TREES (I.E. BARK DAMAGE, BRANCH BREAKAGE) IS NOT PERMITTED. CONTRACTOR IS RESPONSIBLE FOR PROPERLY PRUNING TREES TO PREVENT DAMAGE. IF BRANCHES GREATER THAN 2\"/>



NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632 300 LBS	
GRAB TENSILE ELONGATION	ASTM D-4632 20%	
PUNCTURE	ASTM D-4633 133 LBS	
MILLEN BURST	ASTM D-3786 800 PSF	
TRAPEZOID TEAR	ASTM D-4533 150 LBS	
UV RESISTANCE	ASTM D-4355 80%	
APPARENT OPENING SIZE	ASTM D-4751 40 US SIEVE	
FLOW RATE	ASTM D-4491 40 GAL/MIN/SQ FT	
PERMITTIVITY	ASTM D-4491 0.55 SEC -1	

HI-FLOW SILTSACK

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632 265 LBS	
GRAB TENSILE ELONGATION	ASTM D-4632 20%	
PUNCTURE	ASTM D-4633 135 LBS	
MILLEN BURST	ASTM D-3786 420 PSF	
TRAPEZOID TEAR	ASTM D-4533 45 LBS	
UV RESISTANCE	ASTM D-4355 90%	
APPARENT OPENING SIZE	ASTM D-4751 20 US SIEVE	
FLOW RATE	ASTM D-4491 200 GAL/MIN/SQ FT	
PERMITTIVITY	ASTM D-4491 1.5 SEC-1	

OIL-ABSORBANT SILTSACK

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794-6350
SANITARY		MARK COZART (734) 794-6350
STORM	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	KEVIN ERNST (734) 794-6350
FORESTRY		STEVEN GOEBEL (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996-2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

811 Know what's below. Call before you dig.

ADDENDUM #2	6-11-15	DATE
BID SET	3-31-2015	DATE
REVIEW 1	2-27-2015	DATE
REV.	00	DRAWN
	01	RAG
	02	DFP
		DAD
		CHECKED

CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48108-0867 www.aagov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

COLONY ESSEX MANCHESTER CONCRETE PAVEMENT REPAIR

TYPICAL SECTIONS AND DETAILS

SCALE PLAN: #####

DRAWING No. 2015024-3

SHEET No. 3 OF 27

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SYMBOL (Cp) AND (C3p)

SYMBOL (W)

SYMBOL (E2), (E3) AND (E4)

SYMBOL (U)

SYMBOL (H)

SYMBOL (H)

SYMBOL (H)

TRANSVERSE AND INTERSECTION PLANE OF WEAKNESS JOINTS

DEPARTMENT DIRECTOR: *John C. Frazee*
 PREPARED BY: *John C. Frazee*
 DESIGN DIVISION: *John C. Frazee*
 CHECKED BY: *John C. Frazee*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)

9-10-2010 F.H.K.A. APPROVAL
 8-9-2010 PLAN DATE
R-39-1 SHEET 1 OF 4

SYMBOL (B)

SYMBOL (D) AND (S)

SYMBOL (L2)

METHOD OF EDGING

LONGITUDINAL BULKHEAD JOINT - SYMBOL (B)

LONGITUDINAL SMOOTH LANE TIE JOINT - SYMBOL (D)

LONGITUDINAL SMOOTH LANE TIE JOINT - SYMBOL (S)

MAXIMUM ALLOWABLE LANE TIE SPACING

MAXIMUM ALLOWABLE LANE TIE SPACING SYMBOLS (B), (D), (L2), AND (S)	GRADE	MAXIMUM ALLOWABLE LANE TIE SPACING
1'-11"	OVER 24" THROUGH 36"	1'-4"
1'-5"	OVER 17" THROUGH 24"	1'-3"
1'-2"	OVER 24" THROUGH 36"	1'-1"
1'-1"	OVER 17" THROUGH 24"	1'-1"

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
LONGITUDINAL PAVEMENT JOINTS

9-30-2014 F.H.K.A. APPROVAL
 4-22-2013 PLAN DATE
R-41-H SHEET 2 OF 2

SYMBOL (H)

SYMBOL (H)

SYMBOL (H)

TRANSVERSE END OF POUR JOINT (SPLIT HEADER METHOD)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

TRANSVERSE END OF POUR JOINT (DRILLED IN METHOD)

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)

9-10-2010 F.H.K.A. APPROVAL
 8-9-2010 PLAN DATE
R-39-1 SHEET 3 OF 4

SYMBOL (H)

SYMBOL (H)

SYMBOL (H)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)

9-10-2010 F.H.K.A. APPROVAL
 8-9-2010 PLAN DATE
R-39-1 SHEET 4 OF 4

SYMBOL (B)

SYMBOL (D) AND (S)

SYMBOL (L2)

METHOD OF EDGING

LONGITUDINAL BULKHEAD JOINT - SYMBOL (B)

LONGITUDINAL SMOOTH LANE TIE JOINT - SYMBOL (D)

LONGITUDINAL SMOOTH LANE TIE JOINT - SYMBOL (S)

MAXIMUM ALLOWABLE LANE TIE SPACING

MAXIMUM ALLOWABLE LANE TIE SPACING SYMBOLS (B), (D), (L2), AND (S)	GRADE	MAXIMUM ALLOWABLE LANE TIE SPACING
1'-11"	OVER 24" THROUGH 36"	1'-4"
1'-5"	OVER 17" THROUGH 24"	1'-3"
1'-2"	OVER 24" THROUGH 36"	1'-1"
1'-1"	OVER 17" THROUGH 24"	1'-1"

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
LONGITUDINAL PAVEMENT JOINTS

9-30-2014 F.H.K.A. APPROVAL
 4-22-2013 PLAN DATE
R-41-H SHEET 1 OF 2

SYMBOL (L2)

METHOD OF EDGING

LONGITUDINAL BULKHEAD JOINT - SYMBOL (L2)

METHOD OF EDGING

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
LONGITUDINAL PAVEMENT JOINTS

9-30-2014 F.H.K.A. APPROVAL
 4-22-2013 PLAN DATE
R-41-H SHEET 2 OF 2

SYMBOL (H)

SYMBOL (H)

SYMBOL (H)

TRANSVERSE END OF POUR JOINT (SPLIT HEADER METHOD)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

TRANSVERSE END OF POUR JOINT (DRILLED IN METHOD)

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
INTEGRAL CURB AND GUTTER

1-25-2013 F.H.K.A. APPROVAL
 10-22-2012 PLAN DATE
R-31-F SHEET 1 OF 2

SYMBOL (H)

SYMBOL (H)

SYMBOL (H)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

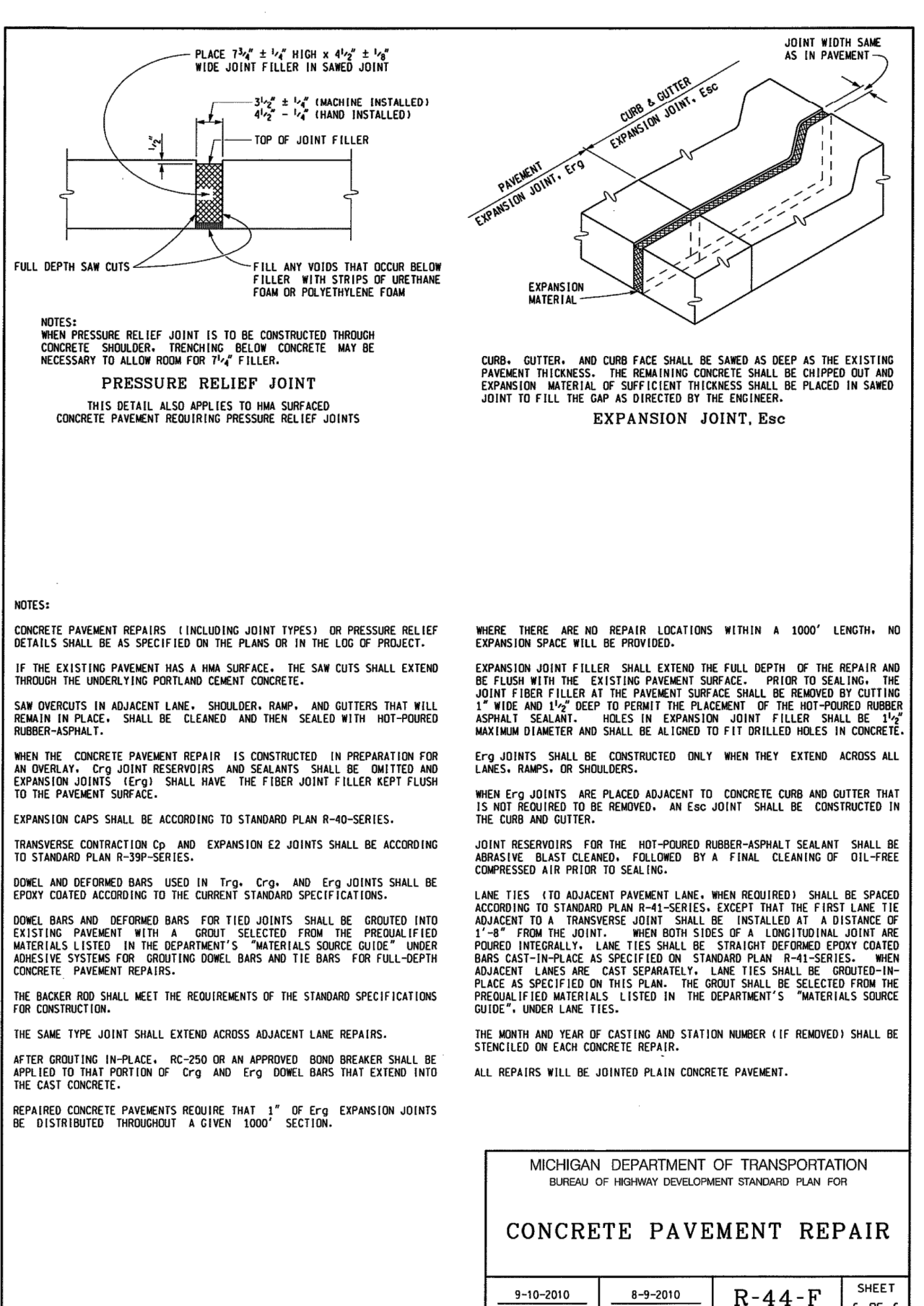
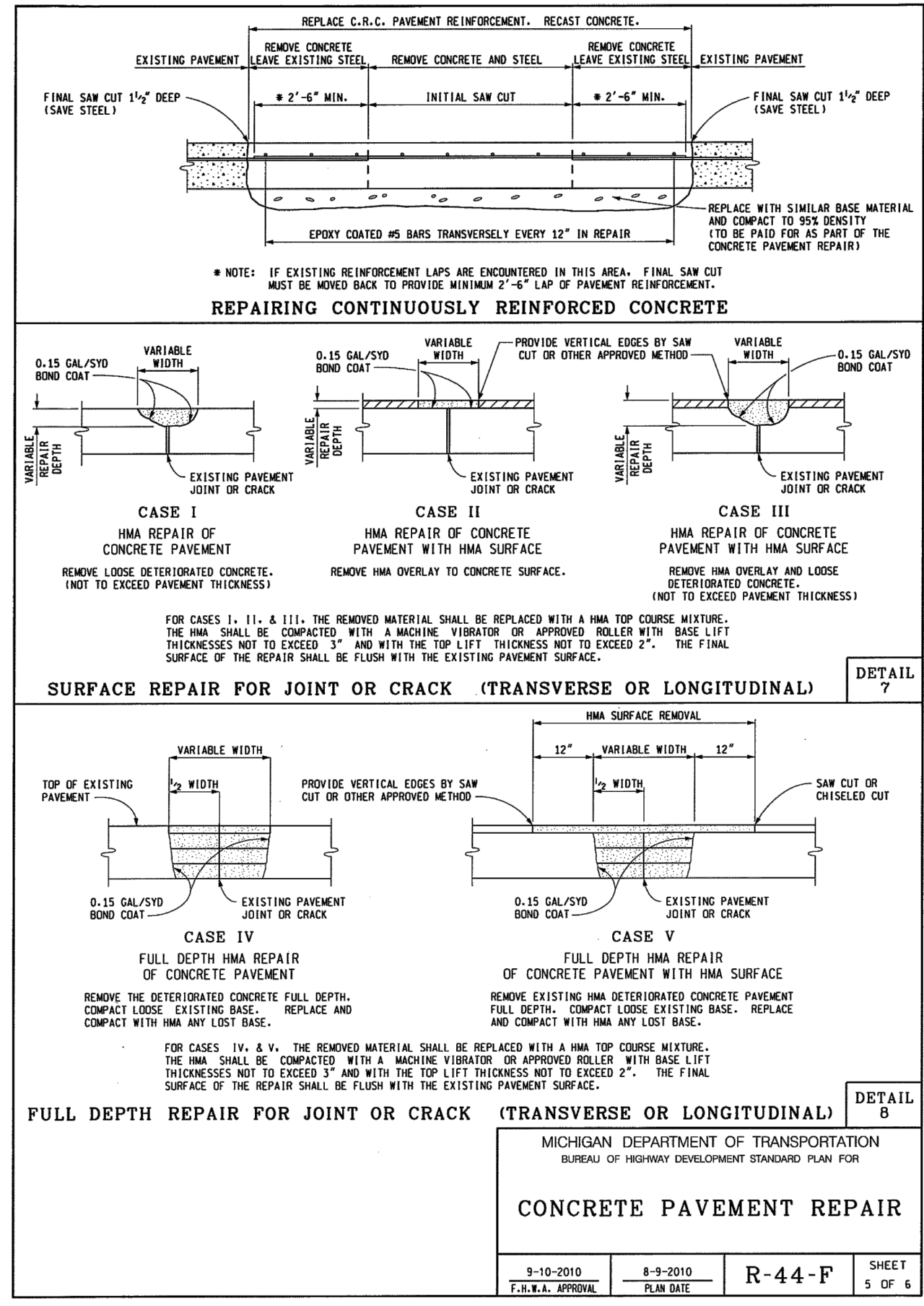
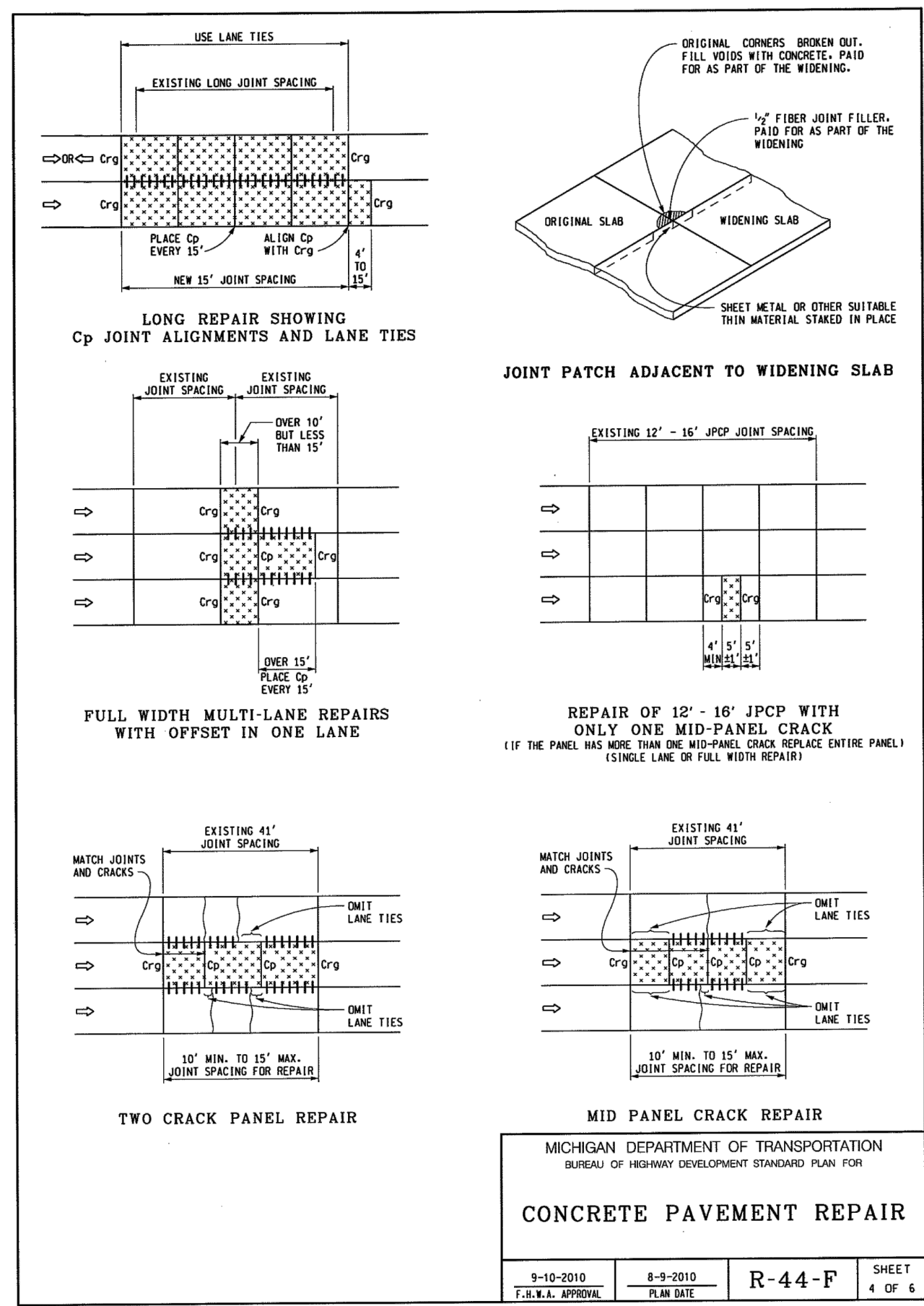
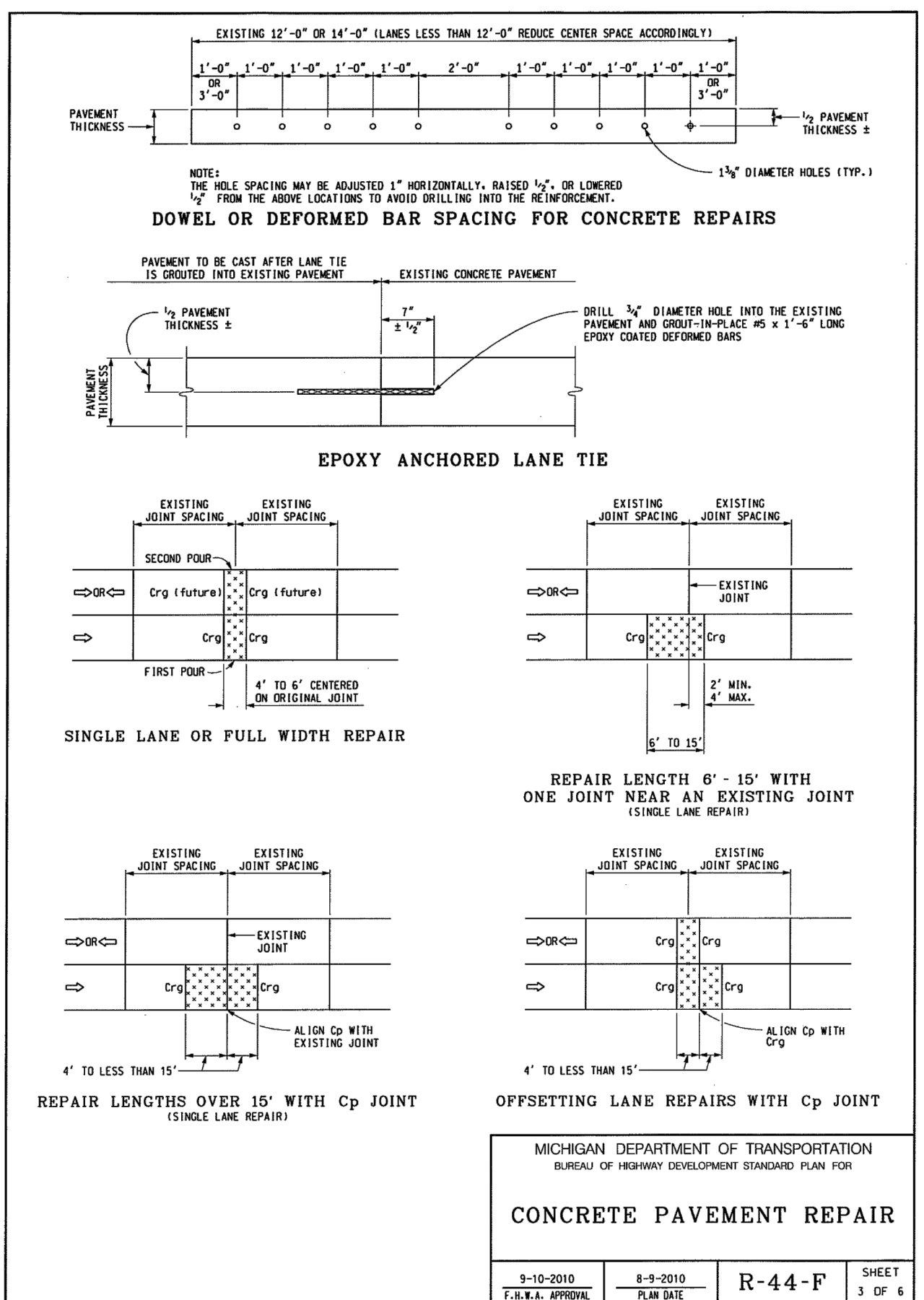
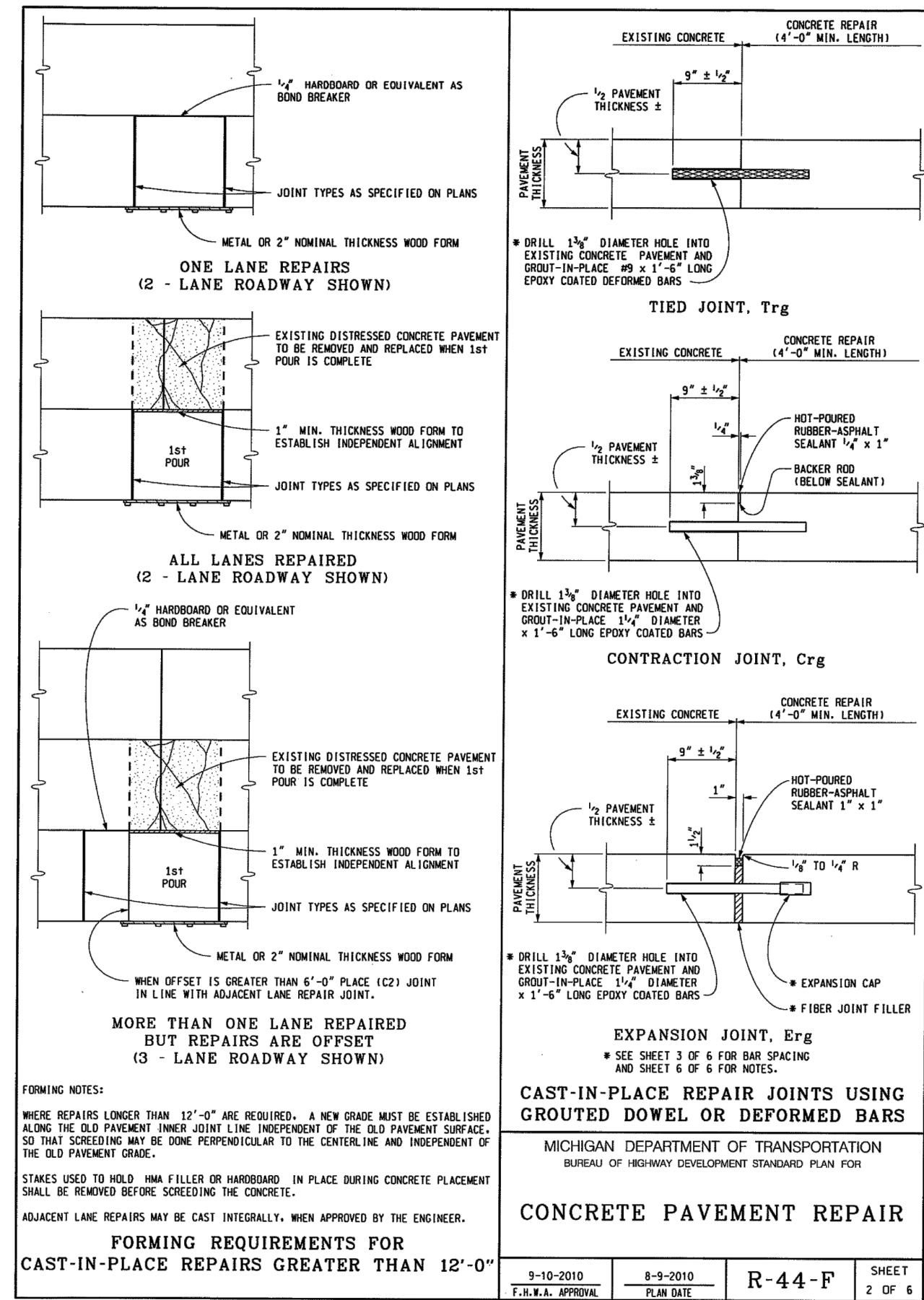
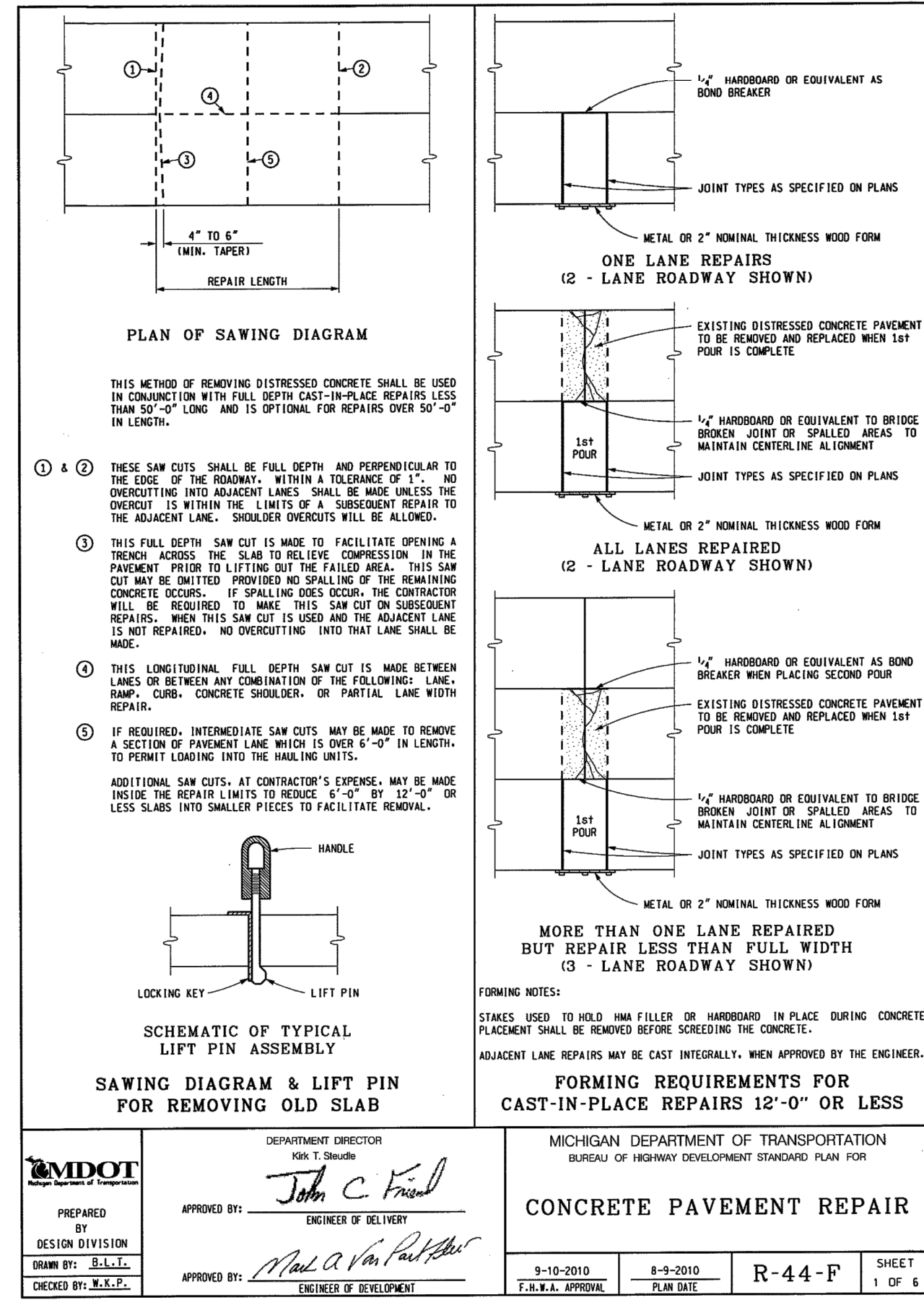
TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

TRANSVERSE END OF POUR JOINT (PLASTIC TUBE METHOD)

DEPARTMENT DIRECTOR: *John T. Steude*
 PREPARED BY: *John T. Steude*
 DESIGN DIVISION: *John T. Steude*
 CHECKED BY: *John T. Steude*

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
INTEGRAL CURB AND GUTTER

1-25-2013 F.H.K.A. APPROVAL
 10-22-2012 PLAN DATE
R-31-F SHEET 2 OF 2



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DAD	DAD	DAD	DAD	CHECKED
6-11-15	3-31-2015	2-27-2015	DATE	DRAWN
02	ADDENDUM #2	01	BID SET	REV.
00		00	REVIEW 1	DESCRIPTION

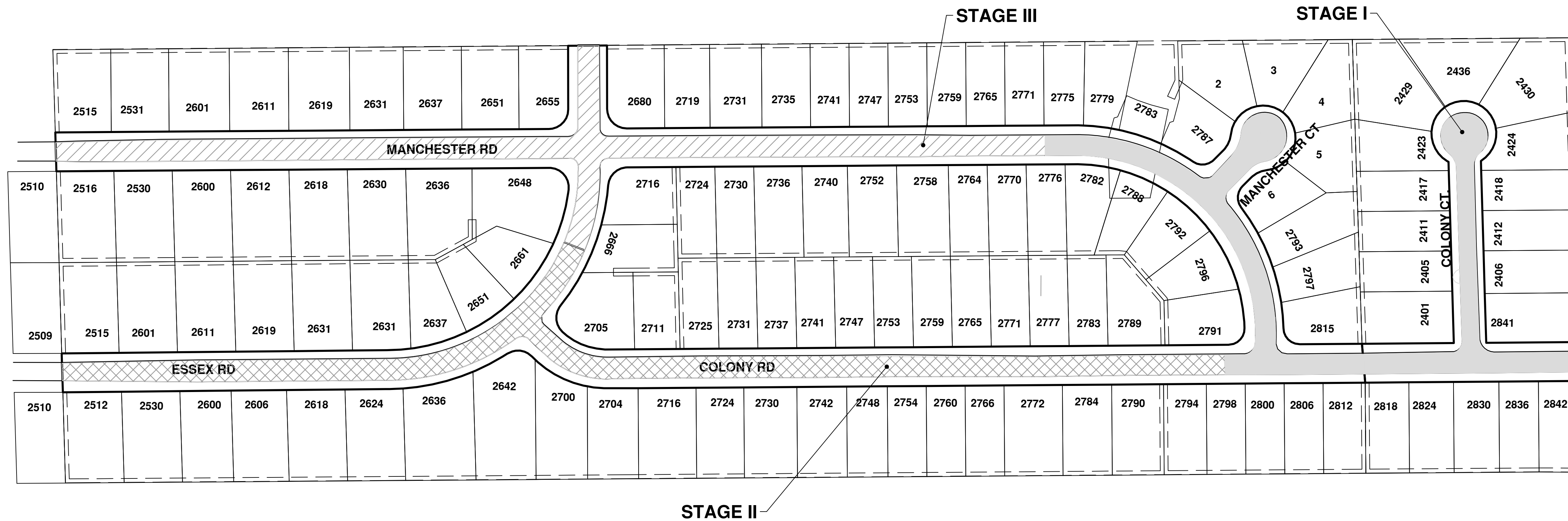
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ANN ARBOR MI 48106-3667
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
DETAILS

SCALE PLAN: #####
DRAWING NO.: 2015024-5
SHEET NO. 5 OF 27

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CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL REVIEW THE TRAFFIC MAINTENANCE PLANS, DETOUR PLANS, AND THE CONTRACT DOCUMENTS AND NOTE THAT EACH OF THE MAJOR STAGES OF CONSTRUCTION (STAGES 1 THROUGH 3) ARE SHOWN FOR THE PURPOSE OF COMPLETING THE CONCRETE PAVEMENT REPAIRS AND SIDEWALK WHILE MAINTAINING ACCESS TO ALL RESIDENCES SOLELY ACCESSED OFF OF COLONY RD, MANCHESTER RD, ESSEX RD, AND COLONY COURT. EACH CONSTRUCTION STAGE SHOWN ON SHEET 4 WILL BE BUILT CONSTRUCTING ONE SIDE OF ROAD AT A TIME. CONTRACTOR WILL BE REQUIRED TO KEEP ONE SIDE OF ROAD OPEN AT ALL TIMES FOR RESIDENTS AND EMERGENCY VEHICLES. CONTRACTOR WILL BE REQUIRED TO REMOVE ONLY ENOUGH OF CONCRETE PAVEMENT THAT CAN BE PLACED BACK IN SAME DAY; 25 FEET OF REMOVAL PROPERLY SECURED IS ALL THAT CAN BE LEFT OPEN AT END OF EACH DAY. WERE STORM SEWER STRUCTURES TO BE REPLACED ARE IN FRONT OF DRIVES, CONTRACTOR TO SCHEDULE REMOVAL, REPLACEMENT, BACKFILL, CONCRETE PLACEMENT, AND CURE TIME TO BE COMPLETED IN NO MORE THAN 5 DAYS FROM START TO FINISH. THE INTENT IS TO HAVE CONTRACTOR ALSO WORKING ON RESTORING LAWN AREAS AS SOON AS POSSIBLE AND COMPLETE WORK IN EACH STAGE BEFORE MOVING ON TO NEXT STAGE. WHEN CONTRACTOR NEEDS TO UTILIZE BOTH LANES TO PLACE CONCRETE REPAIRS FLAG CONTROL WILL BE REQUIRED TO BE USED TO CONTROL ACCESS. CONTRACTOR WILL SUBMIT DETAILED SCHEDULE OF WORK ITEMS AND PROPOSED COMPLETION DATES ON WEEKLY BASIS. THESE WORK ITEMS AND DATES WILL BE DISCUSSED AND ADJUSTED AS NEEDED AT WEEKLY PROGRESS MEETING. THE CONTRACTOR MAY CHOOSE TO ADJUST THE LIMITS OR SEQUENCING OF CONSTRUCTION IN ORDER TO COMPLETE THE WORK MORE EFFICIENTLY. HOWEVER, CHANGES TO THE RECOMMENDED STAGES MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION AND MUST ASSURE THAT ACCESS IS MAINTAINED AS DESCRIBED ABOVE.

STAGE I

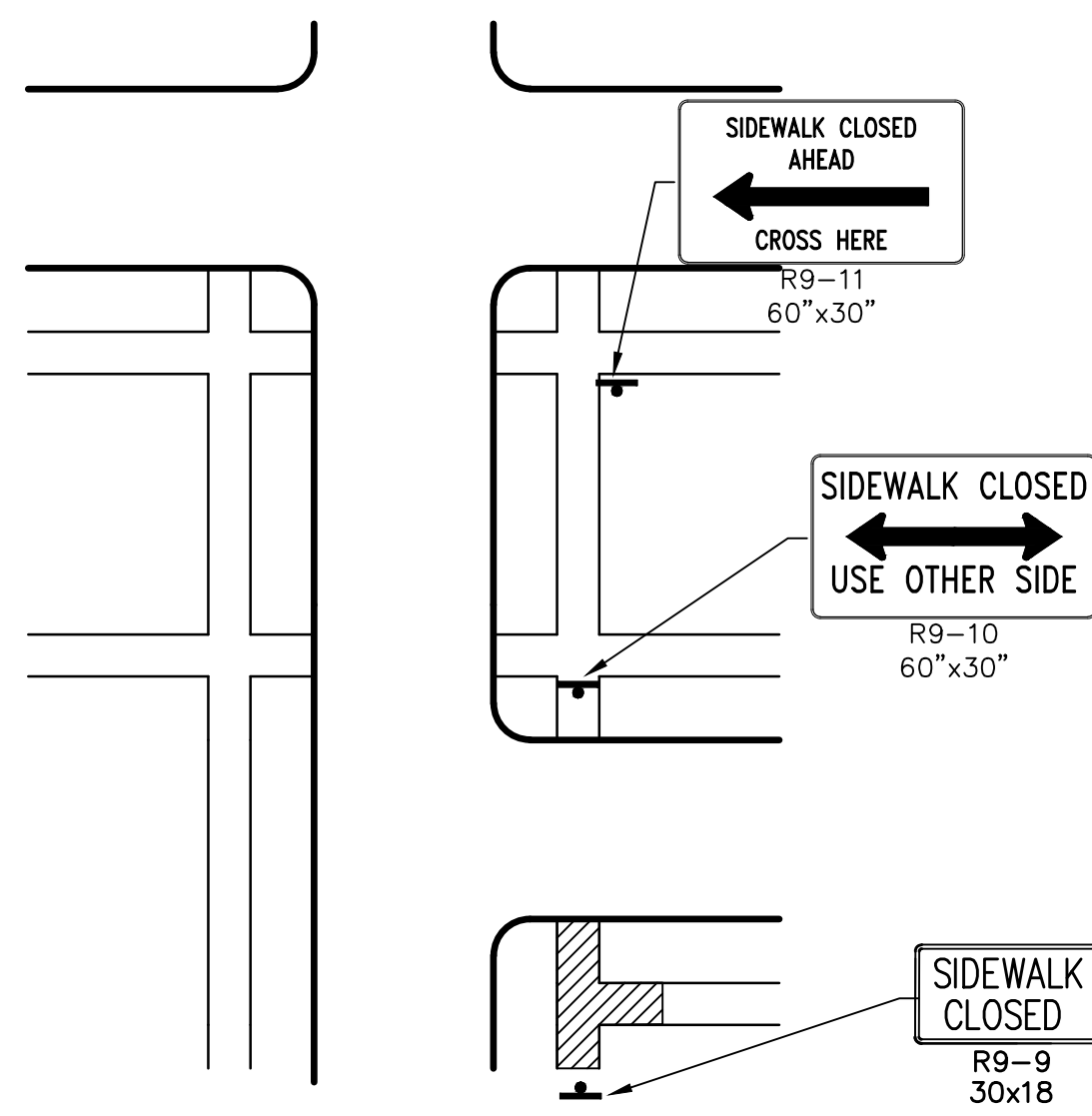
1. PLACE MESSAGE BOARDS 1 WEEK PRIOR TO START OF CONSTRUCTION. PLACE MESSAGE PER ENGINEER.
2. INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR AND MAINTENANCE OF TRAFFIC PER STAGE I.
3. PLACE NO PARKING SIGNS.
4. PLACE SOIL EROSION CONTROL ITEMS AND TREE PROTECTION.
5. CONSTRUCT STORM SEWER INLETS ON COLONY AND MANCHESTER COURT.
6. REMOVE AND REPLACE CONCRETE PAVEMENT AND SIDEWALK.
7. FINISH RESTORATION, CLEAN STREET, AND COMPLETE PRELIMINARY PUNCH LIST FOR STAGE I.
8. REMOVE SOIL EROSION CONTROL MEASURES AND TREE PROTECTION.
9. REMOVE NO PARKING SIGNS, DETOUR AND CONSTRUCTION SIGNAGE.

STAGE II

1. ADJUST MESSAGE ON MESSAGE BOARDS, PLACE MESSAGE PER ENGINEER.
2. INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR AND MAINTENANCE OF TRAFFIC PER STAGE II.
3. PLACE NO PARKING SIGNS.
4. PLACE SOIL EROSION CONTROL ITEMS AND TREE PROTECTION.
5. CONSTRUCT STORM SEWER FRONT OF 2724 AND 2731 COLONY COURT.
6. REMOVE AND REPLACE CONCRETE PAVEMENT AND SIDEWALK.
7. FINISH RESTORATION, CLEAN STREET, AND COMPLETE PRELIMINARY PUNCH LIST FOR STAGE II.
8. REMOVE SOIL EROSION CONTROL MEASURES AND TREE PROTECTION.
9. REMOVE NO PARKING SIGNS, DETOUR AND CONSTRUCTION SIGNAGE.

STAGE III

1. ADJUST MESSAGE ON MESSAGE BOARDS, PLACE MESSAGE PER ENGINEER.
2. INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR AND MAINTENANCE OF TRAFFIC PER STAGE III.
3. PLACE NO PARKING SIGNS.
4. PLACE SOIL EROSION CONTROL ITEMS AND TREE PROTECTION.
5. CONSTRUCT STORM SEWER FRONT OF 2611, 2612, 2636, 2637, 2648, 2735 AND 2736 MANCHESTER RD.
6. REMOVE AND REPLACE CONCRETE PAVEMENT AND SIDEWALK.
7. FINISH RESTORATION, CLEAN STREET, AND COMPLETE PRELIMINARY PUNCH LIST FOR STAGE III AND OVERALL PROJECT PUNCH LIST.
8. REMOVE SOIL EROSION CONTROL MEASURES AND TREE PROTECTION.
9. REMOVE NO PARKING SIGNS, DETOUR AND CONSTRUCTION SIGNAGE.



TYPICAL SIDEWALK DETOUR
N.T.S.

PEDESTRIAN TRAFFIC CONTROL SIGNS			
SIGN	NUMBER	QUANTITY	TOTAL SFT
	R9-10 60X30	3	38
	R9-11 60X30	3	38
	R9-9 30x18	3	14
	R9-11 48x36	3	36

SIDEWALK DETOUR

1. SIGNS PROVIDED AS NEEDED. PEDESTRIAN DETOUR PLACED AS DIRECTED BY ENGINEER

TRAFFIC NOTES FOR STAGE 1, 2, AND 3

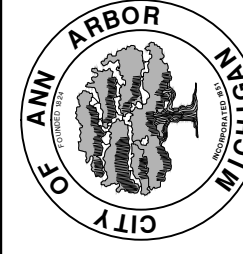
1. CONTRACTOR SHALL PLACE PORTABLE, CHANGEABLE MESSAGE SIGNS A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION IN LOCATIONS INDICATED BY ENGINEER. MESSAGE TO BE PROVIDED BY THE ENGINEER.
2. SIGN SPACING PER MMUTCD 6C-4 OR AS DIRECTED BY ENGINEER.
3. ONE SIDE OF SIDEWALK TO BE OPEN FOR USE AT ALL TIMES.
4. ALL TRAFFIC CONTROL DEVICES TO MEET CURRENT MMUTCD PART 6 STANDARDS.
5. MAINTAIN ACCESS TO PROPERTIES AND EMERGENCY VEHICLES AT ALL TIMES.
6. CONTRACTOR TO PROVIDE TRAFFIC REGULATORS AS NEEDED AND AS DIRECTED BY ENGINEER.
7. COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER, PAID AS PART OF MINOR TRAFFIC CONTROL.



Know what's below.
Call Before you dig.

ADDENDUM #2	DATE	DESCRIPTION
02	6-11-15	DFP
01	3-31-2015	RAG
00	2-27-2015	RAG
		DRAWN
		CHECKED

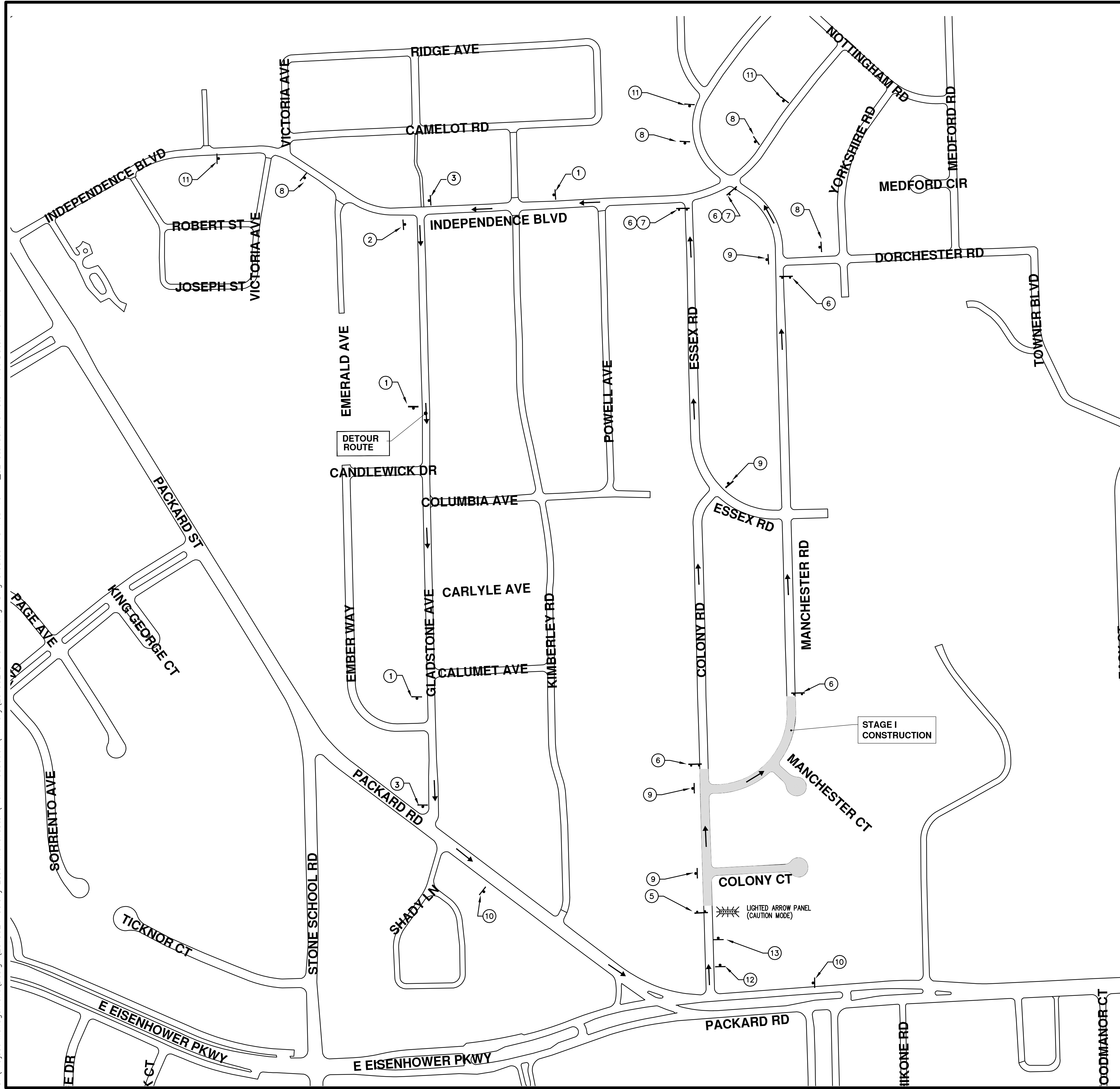
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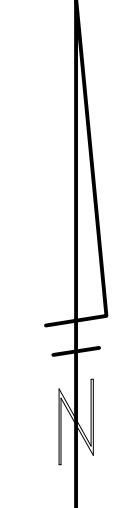
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
PROJECT LAYOUT

SCALE PLAN: 1" = 100'
DRAWING No. 2015024-6

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TRAFFIC CONTROL SIGN				
	SIGN	NUMBER	QUANTITY	TOTAL AREA (SFT)
①	ESSEX/COLONY DETOUR ↑	D3-1 M4-9S 30x30	3	6 19
②	ESSEX/COLONY DETOUR →	D3-1 M4-9R 30x24	1	2 5
③	ESSEX/COLONY DETOUR ←	D3-1 M4-9L 30x24	2	4 10
⑤	TYPE III BARRICADE WITH ROAD CLOSED LOCAL TRAFFIC ONLY	R11-3 60x30	1	13
⑥	TYPE III BARRICADE WITH ROAD CLOSED	R11-2 48x30	5	50
⑦	DETOUR →	M4-10R 30"x24"	2	10
⑧	SOUTH BOUND ESSEX AND MANCHESTER ROADS CLOSED FOLLOW DETOUR	SPECIAL 48x60	4	80
⑨	ONE WAY →	R6-1R 36x12	4	12
⑩	ROAD WORK AHEAD COLONY RD.	W20-1 48 X 48 D3-1	2	32 4
⑪	ROAD WORK AHEAD ESSEX RD	W20-1 48 X 48 D3-1	3	48 6
⑫	ONE LANE ROAD AHEAD	W20-4 48 X 48	1	16
⑬	WORK ZONE BEGINS	R5-18c 36 x 30	1	8



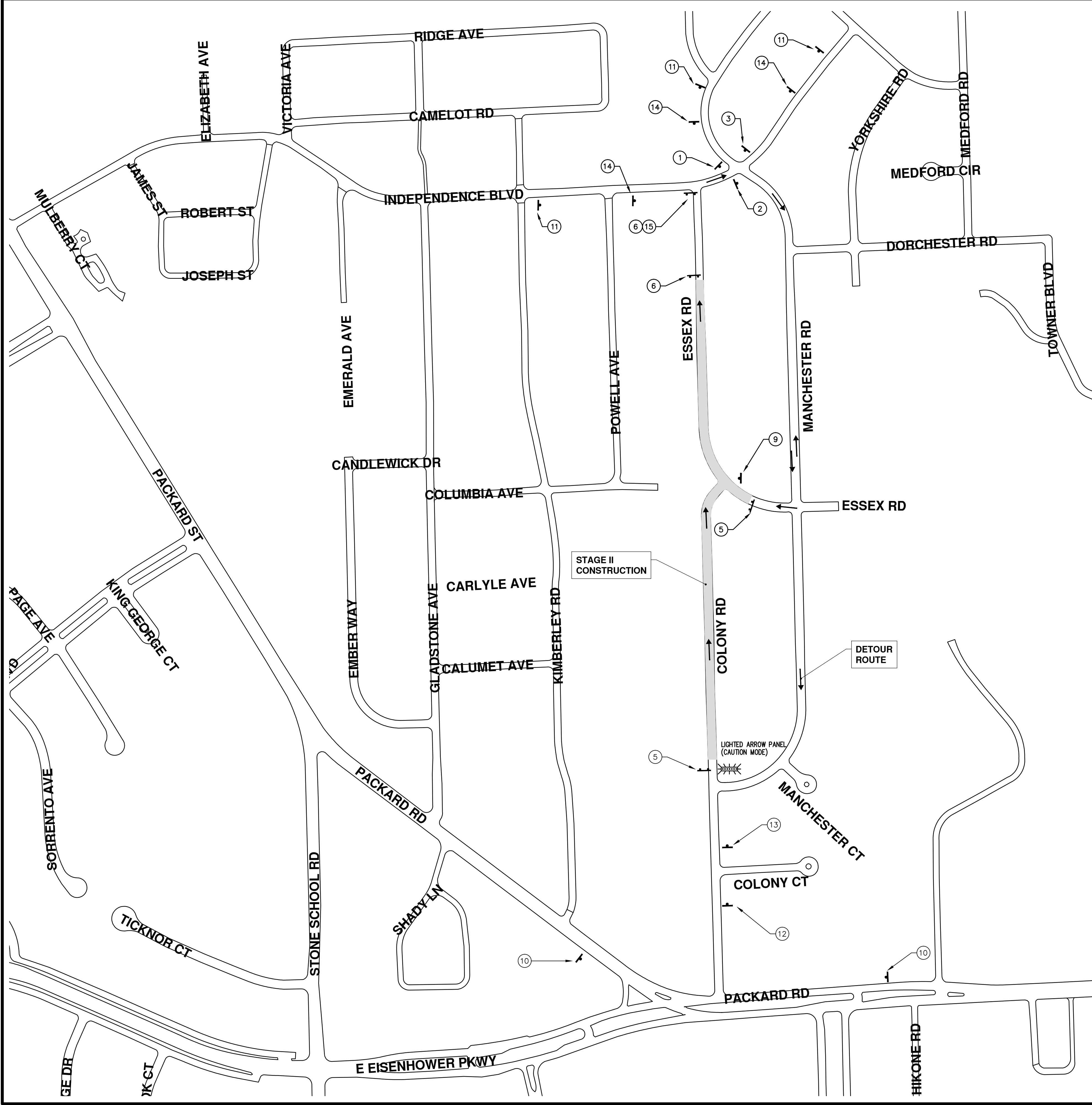
REV.	DATE	DESCRIPTION
02	6-11-15	ADDENDUM #2
01	3-31-2015	BID SET
00	2-27-2015	REVIEW 1

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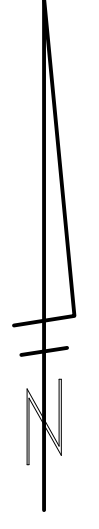
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
TRAFFIC AND DETOUR STAGE I

SCALE PLAN: 1" = 200'
DRAWING No. 2015024-7

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TRAFFIC CONTROL SIGN				
	SIGN	NUMBER	QUANTITY	TOTAL AREA (SFT)
①		D3-1 M4-9S 30x30	1	2 7
②		D3-1 M4-9R 30x24	1	2 5
③		D3-1 M4-9L 30x24	1	2 5
⑤		R11-3 60x30	2	13
⑥		R11-2 48x30	2	20
⑨		R6-1R 36x12	1	3
⑩		W20-1 48 X 48	2	32
		D3-1	2	4
⑪		W20-1 48 X 48	3	16
		D3-1	3	6
⑫		W20-4 48 X 48	1	16
⑬		R5-18c 36 x 30	1	8
⑭		SPECIAL 48x60	3	60
⑮		M4-10L 30"x24"	1	5



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

COLONY ESSEX MANCHESTER

CONCRETE PAVEMENT REPAIR

TRAFFIC AND DETOUR STAGE II

SCALE PLAN: 1" = 200'

DRAWING No. 2015024-8

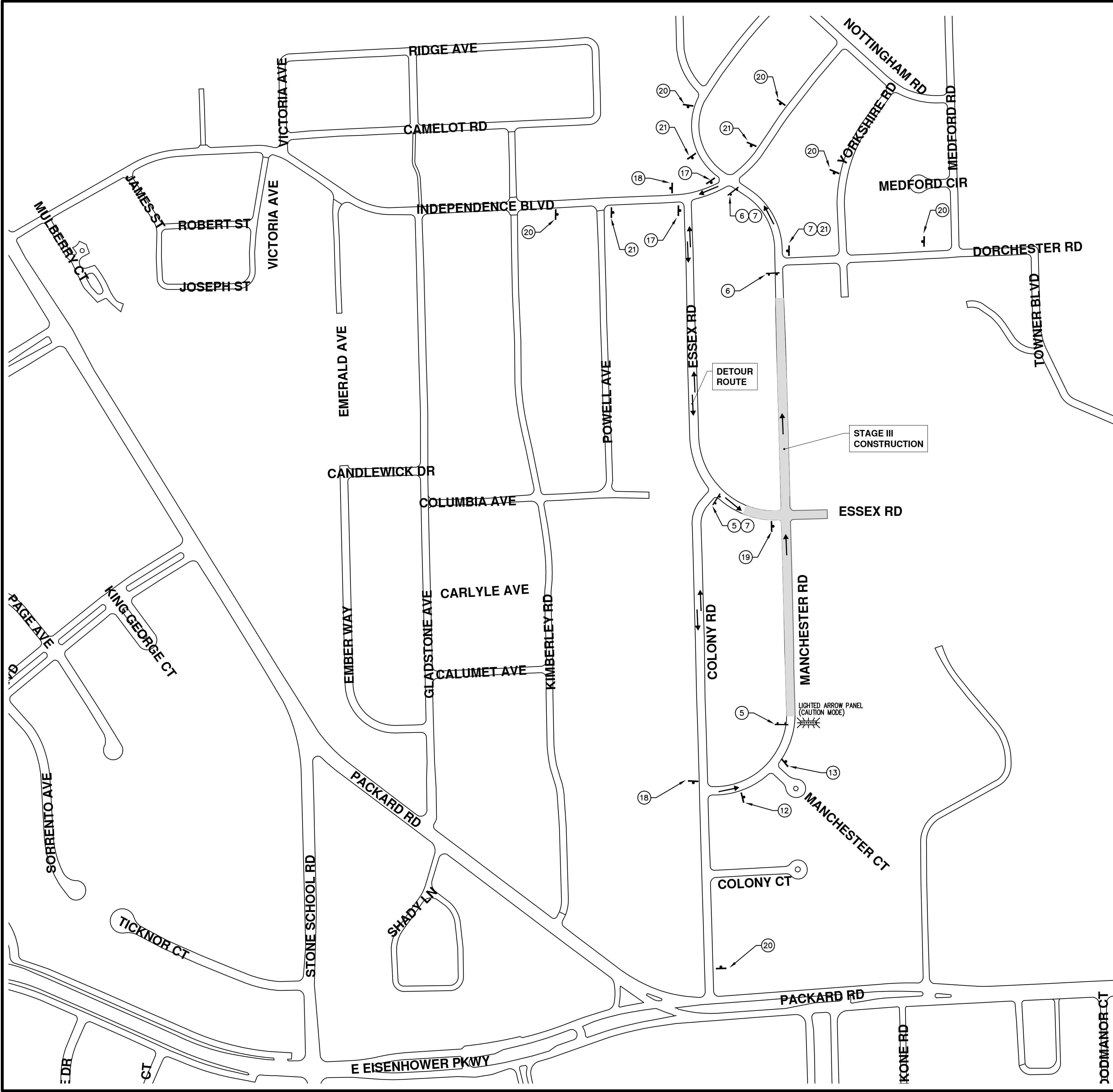
SHEET No. 8 OF 27

811
Know what's below.
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ADDENDUM #2	DATE	DESCRIPTION
02	6-11-15	
01	3-31-2015	
00	2-27-2015	
REV.	DATE	REV.

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TRAFFIC CONTROL SIGN				
	SIGN	NUMBER	QUANTITY	TOTAL AREA (SFT)
⑤	TYPE III BARRICADE WITH ROAD CLOSED LOCAL TRAFFIC ONLY	R11-3 60x30	2	25
⑥	TYPE III BARRICADE WITH ROAD CLOSED	R11-2 48"x30"	2	20
⑦	DETOUR	M4-10R 30"x24"	3	15
⑫	ONE LANE ROAD AHEAD	W20-4 48 X 48	1	16
⑬	WORK ZONE BEGINS	R5-18c 36 x 30	1	8
⑰	MANCHESTER RD DETOUR	D3-1 M4-9R 30x24	2 2	4 10
⑱	MANCHESTER RD DETOUR	D3-1 M4-9L 30x24	2 2	4 10
⑲	ONE WAY	R6-1L 36x12	1	3
⑳	ROAD WORK AHEAD MANCHESTER RD	W20-1 48 X 48 D3-1	6 6	96 12
㉑	SOUTH BOUND MANCHESTER ROAD CLOSED FOLLOW DETOUR	SPECIAL 48x60	4	80

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1" = 200'

DRAWING No. 2015024-9

SHEET No. 9 OF 27

COLONY ESSEX MANCHESTER

CONCRETE PAVEMENT REPAIR

TRAFFIC AND DETOUR STAGE III

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ADDENDUM #2
6-11-15
3-31-2015
2-27-2015

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REVIEW 1
DATE

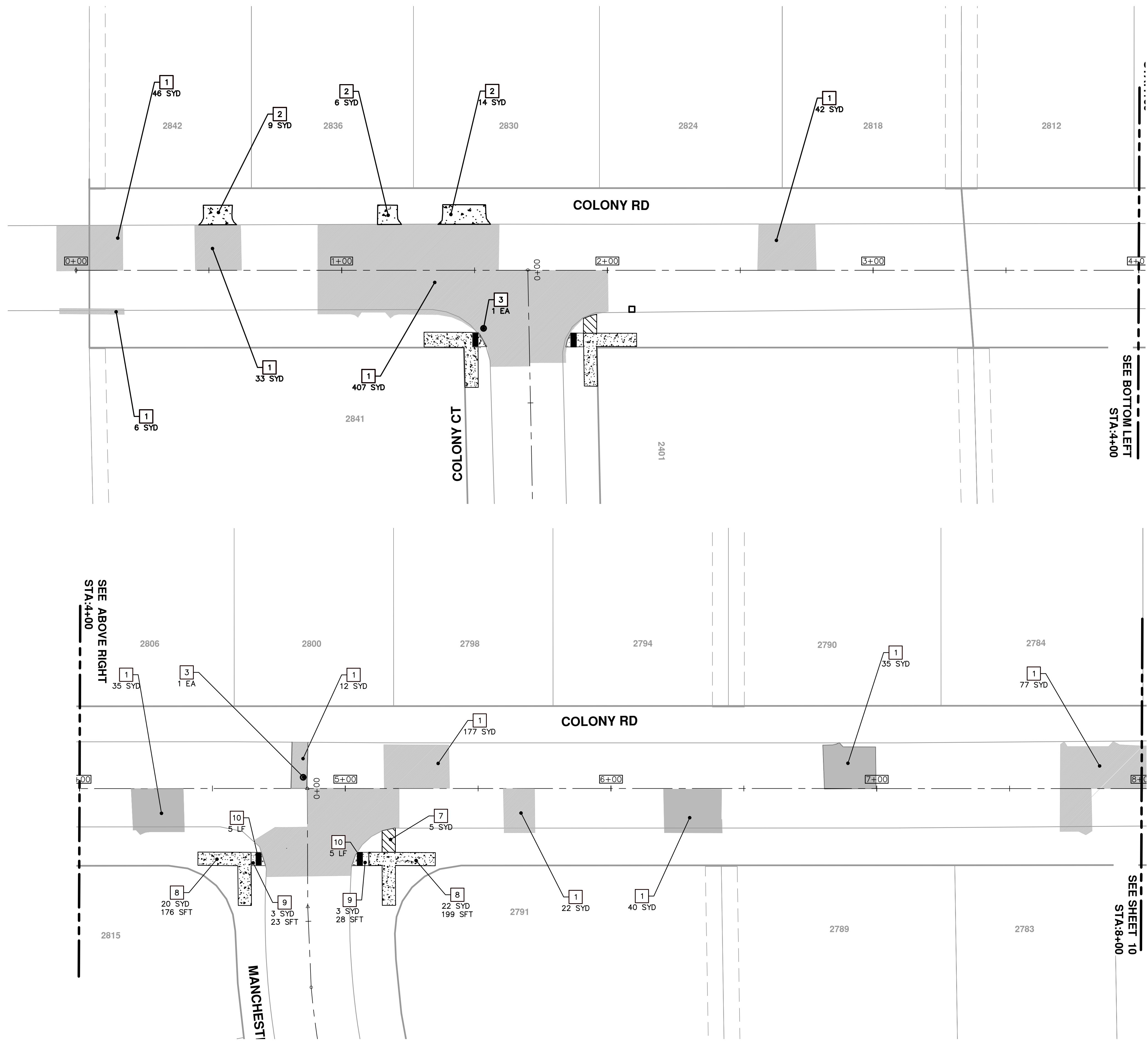
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02

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PROJECT CONSTRUCTION INCLUDES THE REMOVAL AND REPLACEMENT OF SIDEWALK AT VARIOUS ADDRESSES WITHIN THE PROJECT LIMITS THAT IS NOT SHOWN ON THE PLANS. THE QUNATITES FOR THIS WORK ARE REFLECTED IN THE OVERALL PROJECT QUANTITIES, AND SPECIFICALLY SHOWN BELOW.

SIDEWALK, REM = 795 SYD
GRADING, SIDEWALK = 795 SYD
SIDEWALK, CONC, 4 INCH, MODIFIED = 6,800 SFT
SIDEWALK, CONC. 6 INCH, MODIFIED = 350 SFT

SEE ABOVE RIGHT
STA:4+00

SEE BOTTOM LEFT
STA:4+00

SEE SHEET 10
STA:8+00

CONSTRUCTION KEY	
KEY	DESCRIPTION
1	PAVT REMOVE AND CONC. PAVT. NONREINF. 6 INCH
2	PAVT REMOVE AND DRIVEWAY NONREINF CONC 6 INCH
3	DR. STR. COVER ADJ. CASE 1 AND DR. COVER TYPE B MODIFIED
4	DR. STRUCTURE REMOVE, DR. STRUCTURE 24 INCH, AND DR. COVER TYPE K MODIFIED
5	DR. STRUCTURE REMOVE, DR. STRUCTURE DOUBLE INLET, AND DR. COVER TYPE K MODIFIED
6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 COLONY ESSEX MANCHESTER
 CONCRETE PAVEMENT REPAIR
 COLONY RD
 STA 0+00 TO 8+00 REMOVAL AND CONSTRUCTION PLAN

ISSUED: 6/11/15
 DRAWING No. 2015024-10

SHEET No. 10 OF 27

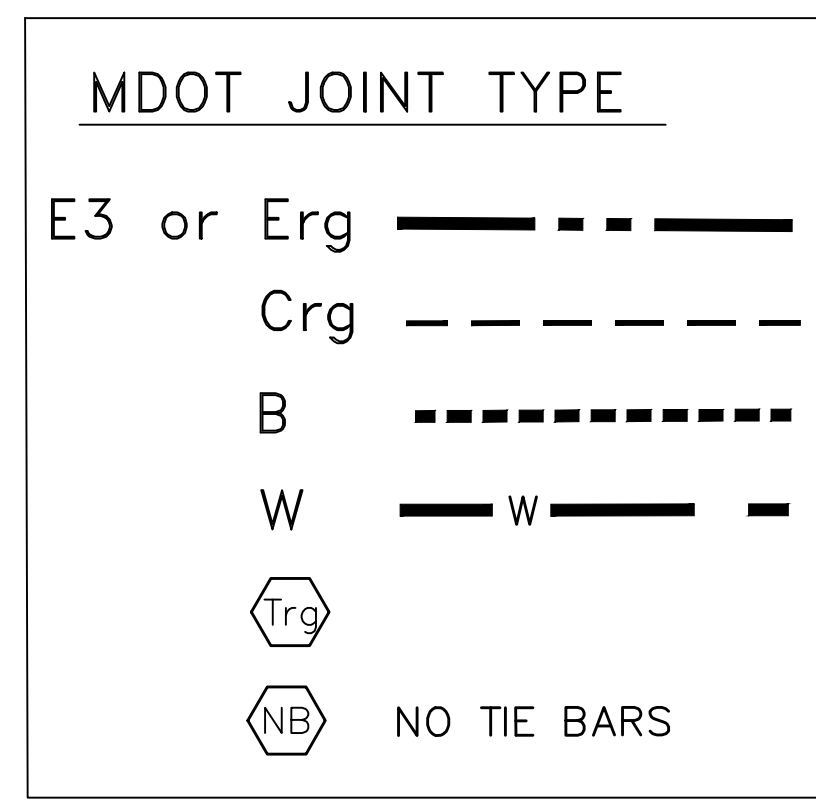
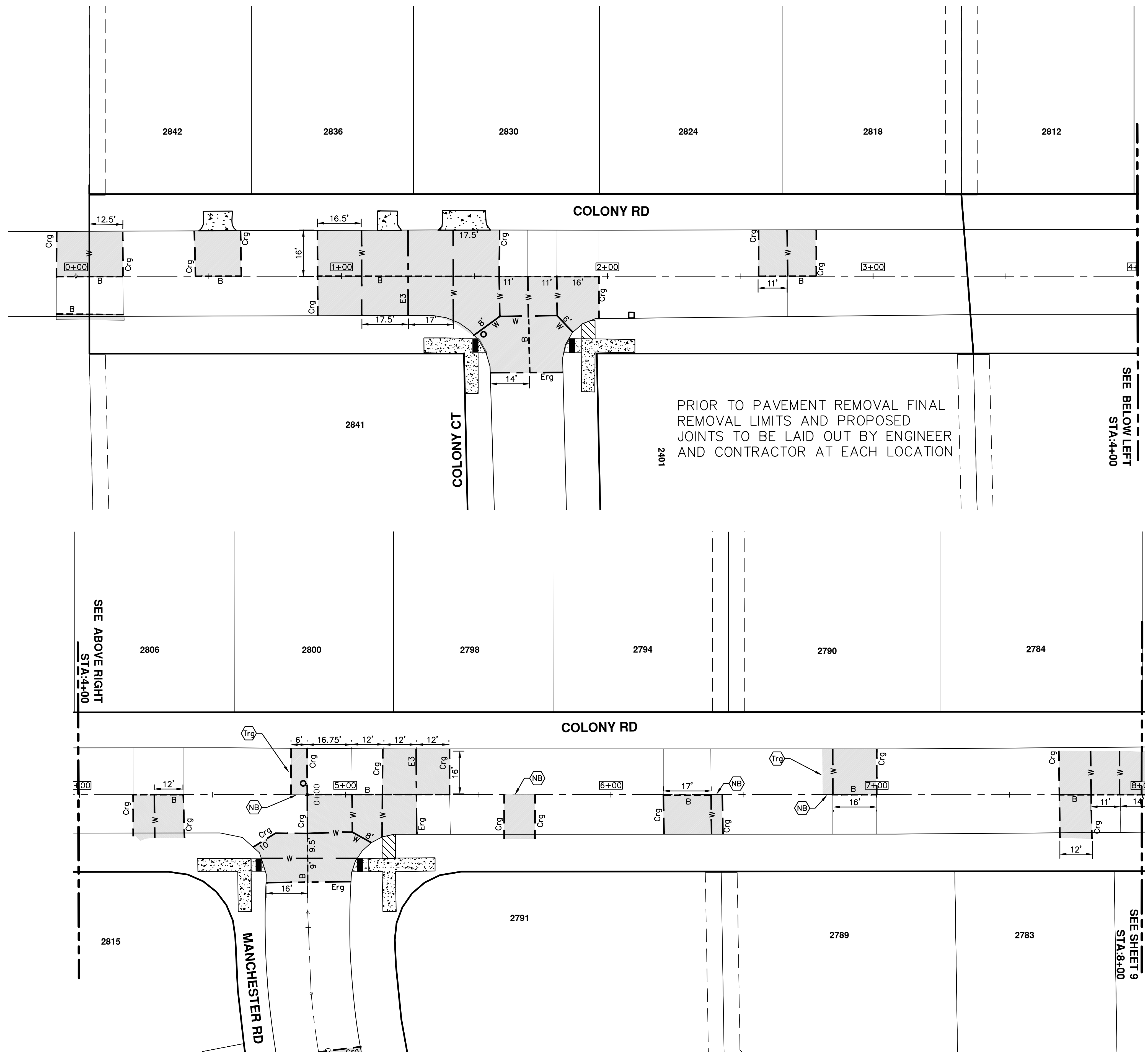
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	ADDENDUM #2	6-11-15	BPF	DAD
01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD

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 ANN ARBOR, MI 48107-8847
 734-794-6410
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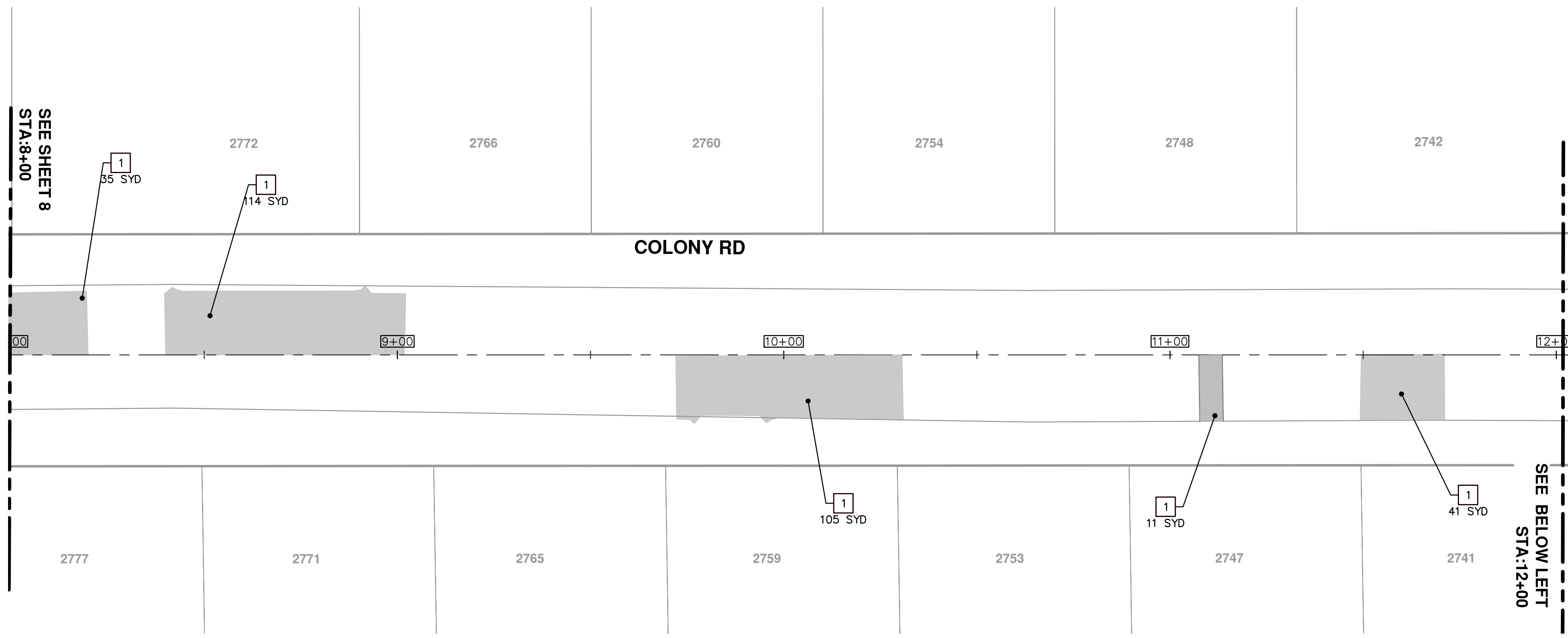
CITY OF ANN ARBOR MICHIGAN

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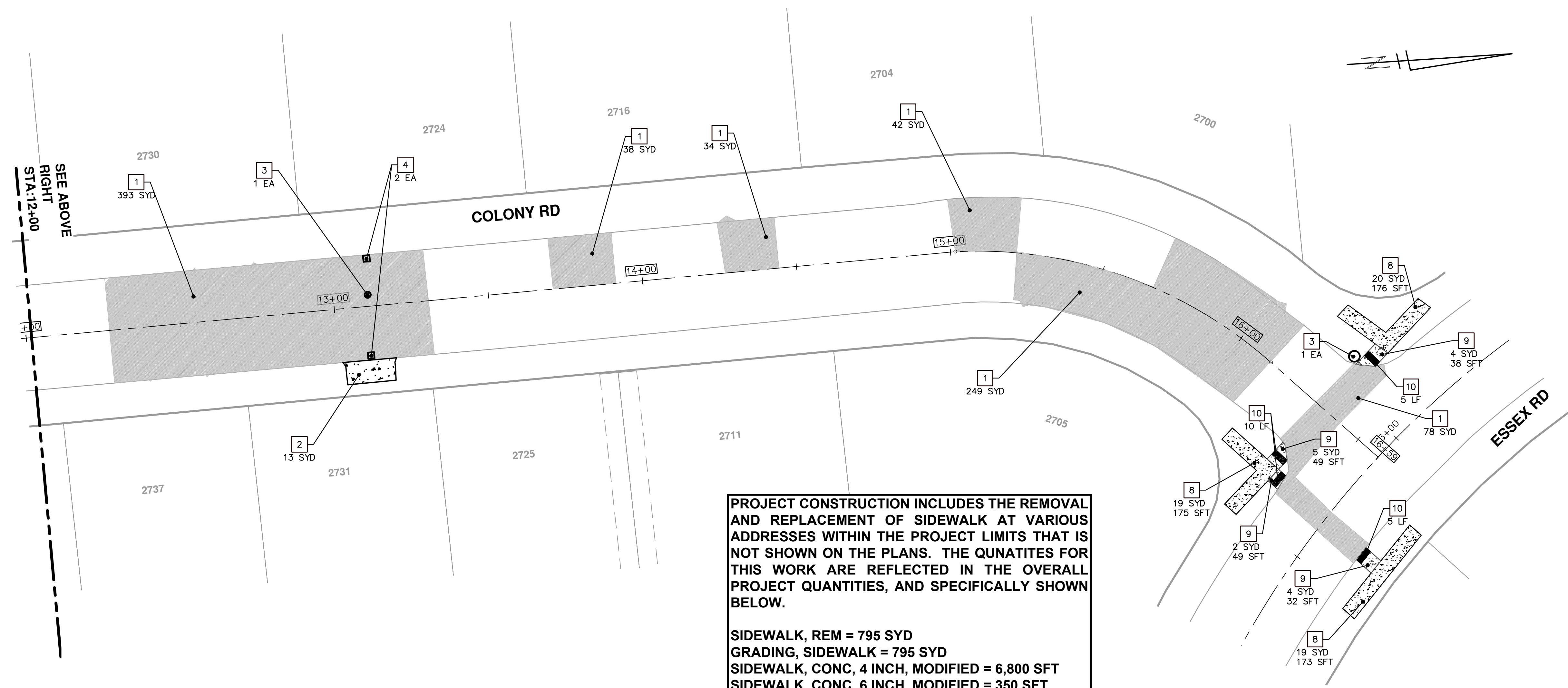
 <small>Know what's below. Call before you dig.</small>					
 CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org	PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR COLONY ESSEX MANCHESTER CONCRETE PAVEMENT REPAIR	COLONY RD STA 0+00 TO 8+00 JOINTING PLAN	SCALE PLAN: 1" = 20' DRAWING No. 2015024-11	SHEET No. 11 OF 27	REV. DESCRIPTION DATE DRAWN CHECKED 02 ADDENDUM #2 6-11-15 DAD DAD 01 BID SET 3-31-2015 RAG RAG 00 REVIEW 1 2-27-2015 RAG RAG

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SEE BELOW LEFT
STA:12+00


CONSTRUCTION KEY	
KEY	DESCRIPTION
1	PAVT REMOVE AND CONC. PAVT. NONREINF. 6 INCH
2	PAVT REMOVE AND DRIVEWAY NONREINF CONC 6 INCH
3	DR. STR. COVER ADJ. CASE 1 AND DR. COVER TYPE B MODIFIED
4	DR. STRUCTURE REMOVE, DR. STRUCTURE 24 INCH, AND DR. COVER TYPE K MODIFIED
5	DR. STRUCTURE REMOVE, DR. STRUCTURE DOUBLE INLET, AND DR. COVER TYPE K MODIFIED
6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE



SEE ABOVE
RIGHT
STA:12+00

PROJECT CONSTRUCTION INCLUDES THE REMOVAL AND REPLACEMENT OF SIDEWALK AT VARIOUS ADDRESSES WITHIN THE PROJECT LIMITS THAT IS NOT SHOWN ON THE PLANS. THE QUANTITIES FOR THIS WORK ARE REFLECTED IN THE OVERALL PROJECT QUANTITIES, AND SPECIFICALLY SHOWN BELOW.


SIDEWALK, REM = 795 SYD
GRADING, SIDEWALK = 795 SYD
SIDEWALK, CONC. 4 INCH, MODIFIED = 6,800 SFT
SIDEWALK, CONC. 6 INCH, MODIFIED = 350 SFT



Know what's below.
Call Before you dig.

	DAD	DPF			
		3-31-2015	RAG		
		2-27-2015	RAG		
			DATE	DRAWN	CHECKED

ADDENDUM #2	REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	01				
01	00				



CITY OF ANN ARBOR
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 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 www.a2gov.org

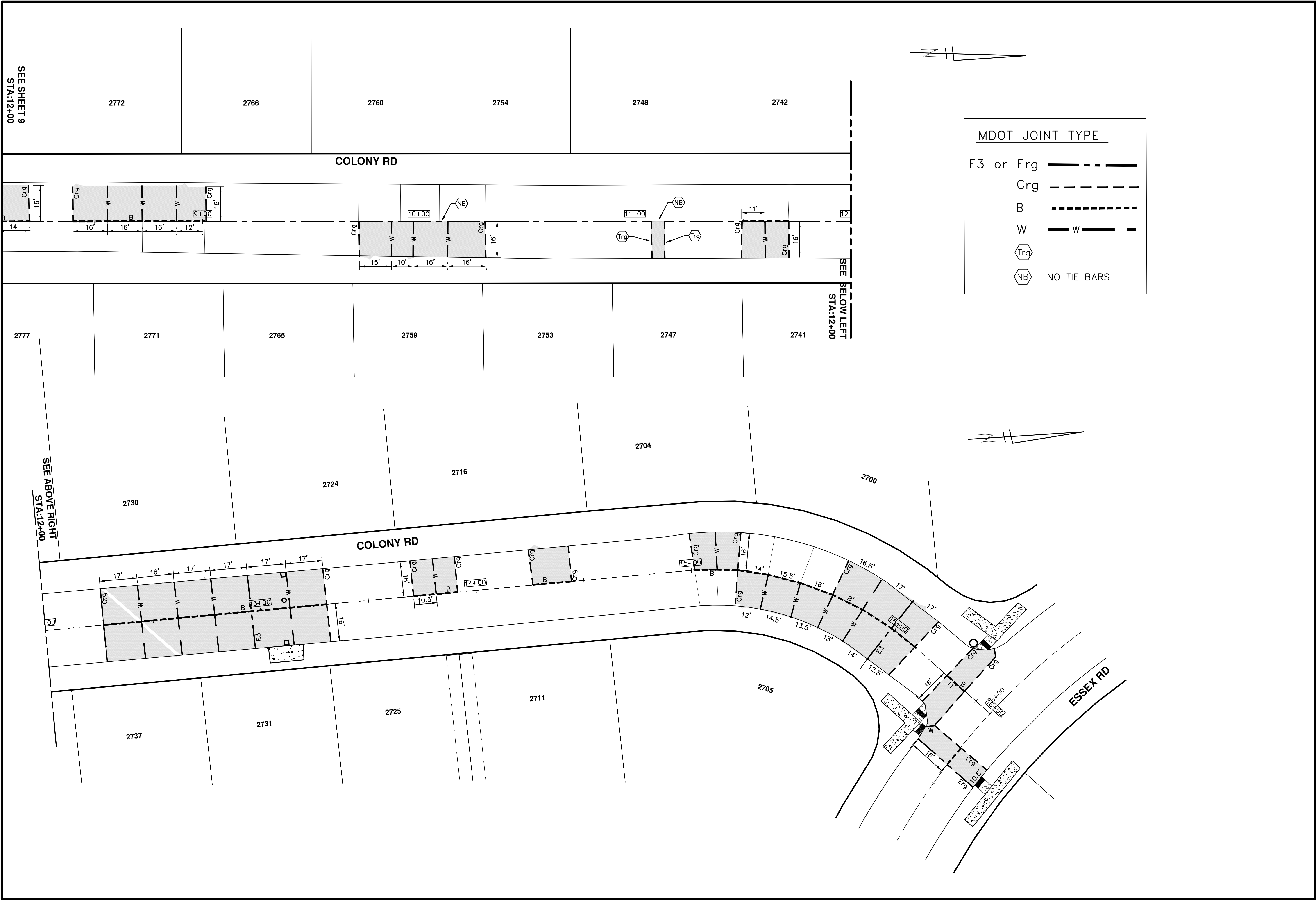
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR

COLONY RD
 STA 8+00 TO 16+00 REMOVAL AND CONSTRUCTION PLAN

SCALE PLAN: 1" = 20'
 DRAWING No. 2015024-12

SHEET No. 12 OF 27

S:\Project Management\Design\2015024 Colony Essex Manchester\Plan Production\Primary\2015024CJOINT1.dwg Dwg Created: 6-Feb-15 - _a2 standard bw.stb - Plot Date: 11-Jun-15



SEE SHEET 9
STA:12+00

SEE BELOW LEFT
STA:12+00

SEE ABOVE RIGHT
STA:12+00

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR

SCALE PLAN: 1" = 20'
 DRAWING No. 2015024-13

COLONY RD
 STA 8+00 TO 16+00 JOINTING PLAN

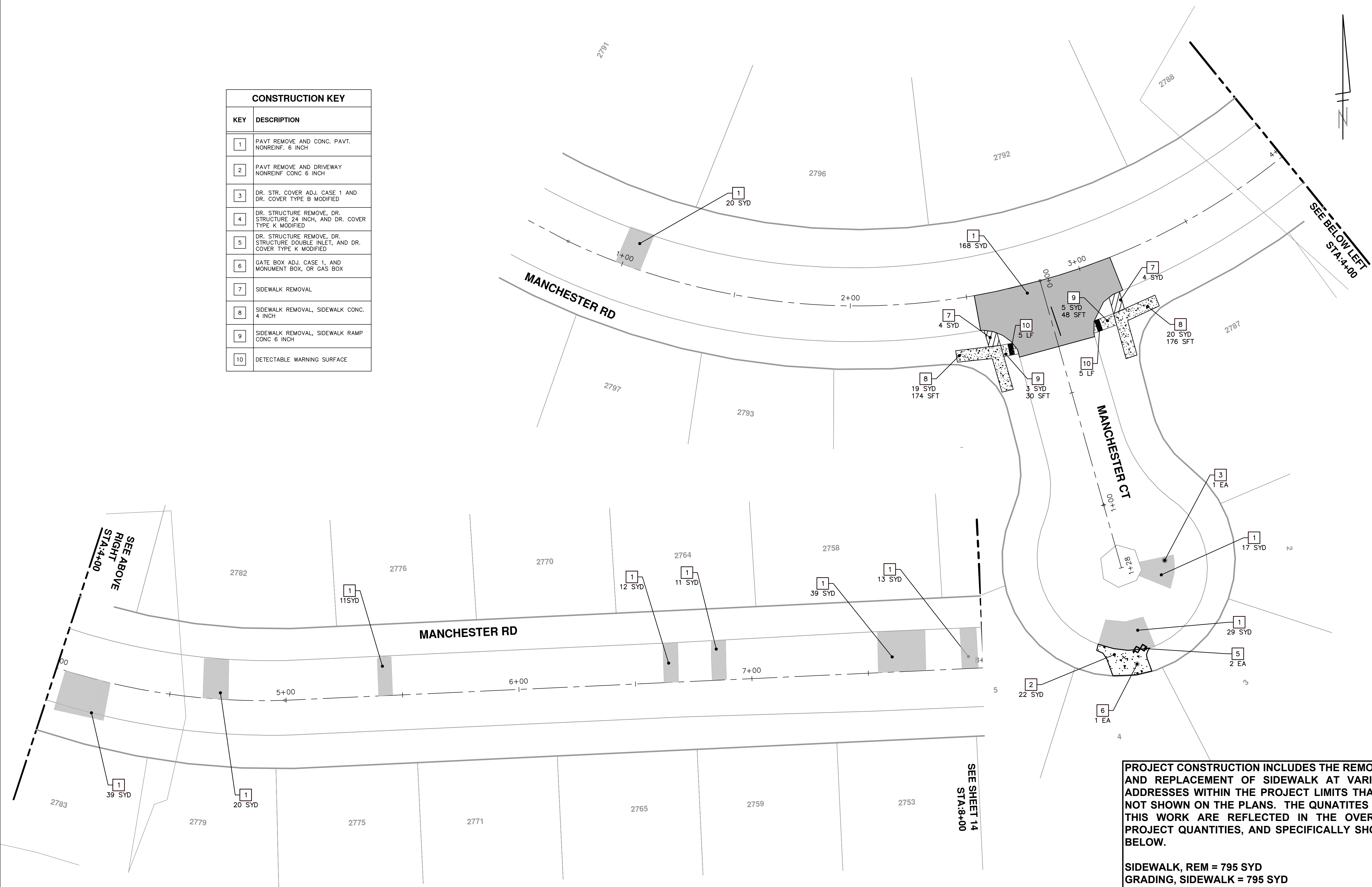
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00	REVIEW 1	2-27-2015	RAG	DAD
01	BID SET	3-31-2015	RAG	DAD
02	APPENDUM #2	6-11-15	DFP	DAD

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811
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Call before you dig.

S:\Project Management\Design\2015024\Colonny Essex Manchester\Plan Production\Primary\2015024RESF1.dwg Dwg Created: 18-Dec-14 - _a2_standard_bw.stb - Plot Date: 10-Jun-15

KEY	DESCRIPTION
1	PAVT REMOVE AND CONC. PAVT. NONREINF. 6 INCH
2	PAVT REMOVE AND DRIVEWAY NONREINF CONC 6 INCH
3	DR. STR. COVER ADJ. CASE 1 AND DR. COVER TYPE B MODIFIED
4	DR. STRUCTURE REMOVE, DR. STRUCTURE 24 INCH, AND DR. COVER TYPE K MODIFIED
5	DR. STRUCTURE REMOVE, DR. STRUCTURE DOUBLE INLET, AND DR. COVER TYPE K MODIFIED
6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE



PROJECT CONSTRUCTION INCLUDES THE REMOVAL AND REPLACEMENT OF SIDEWALK AT VARIOUS ADDRESSES WITHIN THE PROJECT LIMITS THAT IS NOT SHOWN ON THE PLANS. THE QUNATITES FOR THIS WORK ARE REFLECTED IN THE OVERALL PROJECT QUANTITIES, AND SPECIFICALLY SHOWN BELOW.

SIDEWALK, REM = 795 SYD
 GRADING, SIDEWALK = 795 SYD
 SIDEWALK, CONC, 4 INCH, MODIFIED = 6,800 SFT
 SIDEWALK, CONC. 6 INCH, MODIFIED = 350 SFT

DAD			
DFP	6-11-15		
RAG	3-31-2015		
RAG	2-27-2015		

REV.	DESCRIPTION
02	ADDENDUM #2
01	BID SET
00	REVIEW 1

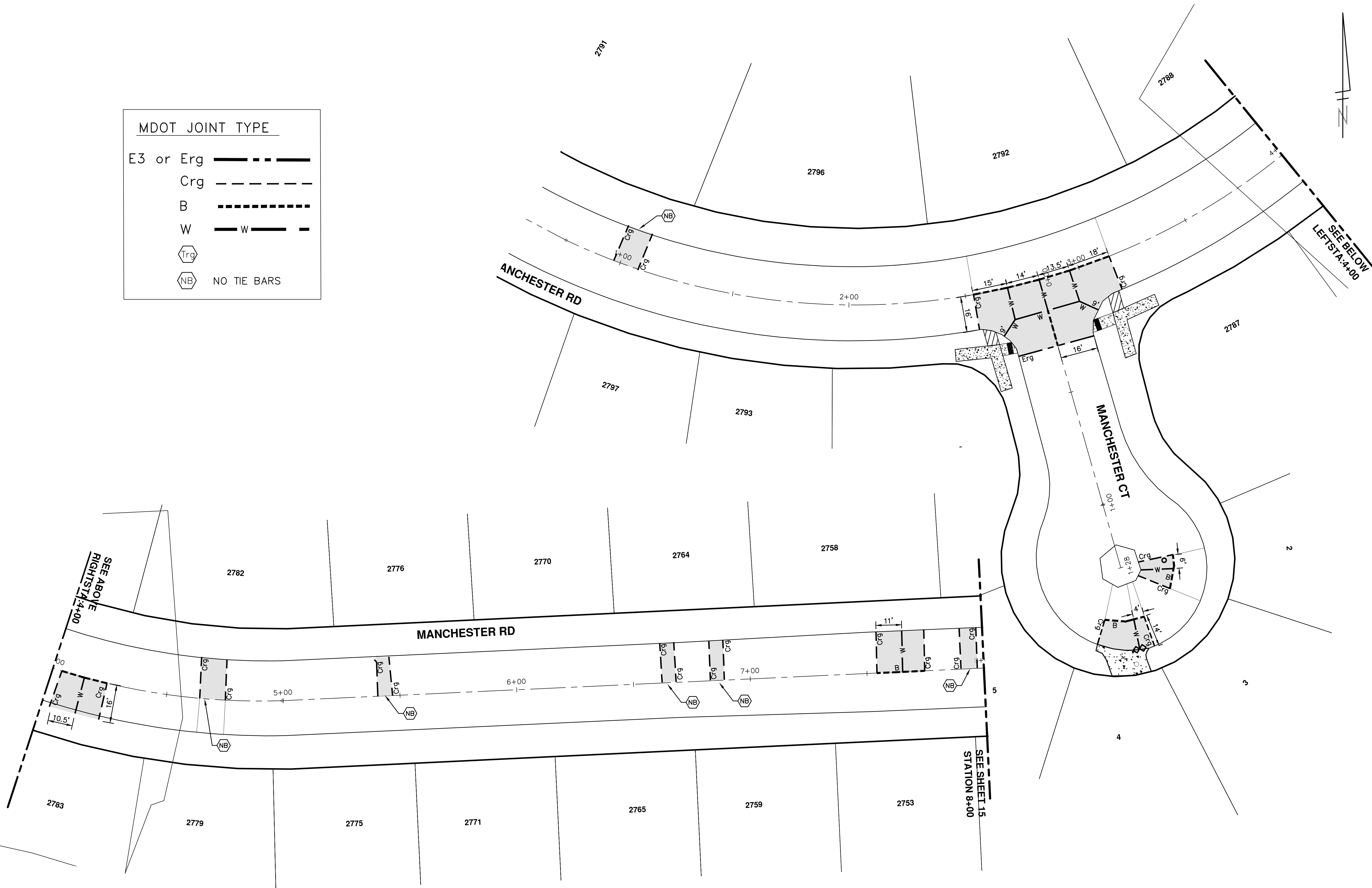
CITY OF ANN ARBOR
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ANN ARBOR, MI 48106-1667
ANN ARBOR 734-794-4410
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 MANCHESTER RD
 STA 0+00 TO 8+00 AND MANCHESTER CT REMOVAL AND CONSTRUCTION

SCALE PLAN: 1" = 20'
 DRAWING No.
2015024-14

SHEET No.
14 OF 27

MDOT JOINT TYPE	
E3 or Erg	-----
Crg	-----
B	-----
W	----- W -----
Trg	(Trg symbol)
NB	(NB symbol) NO TIE BARS



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR

SCALE PLAN: 1" = 20'

DRAWING No. 2015024-15

811
 Know what's below.
 Call before you dig.

REV.	DATE	DESCRIPTION
02	6-11-15	ADDENDUM #2
01	3-31-2015	BID SET
00	2-27-2015	REVIEW 1

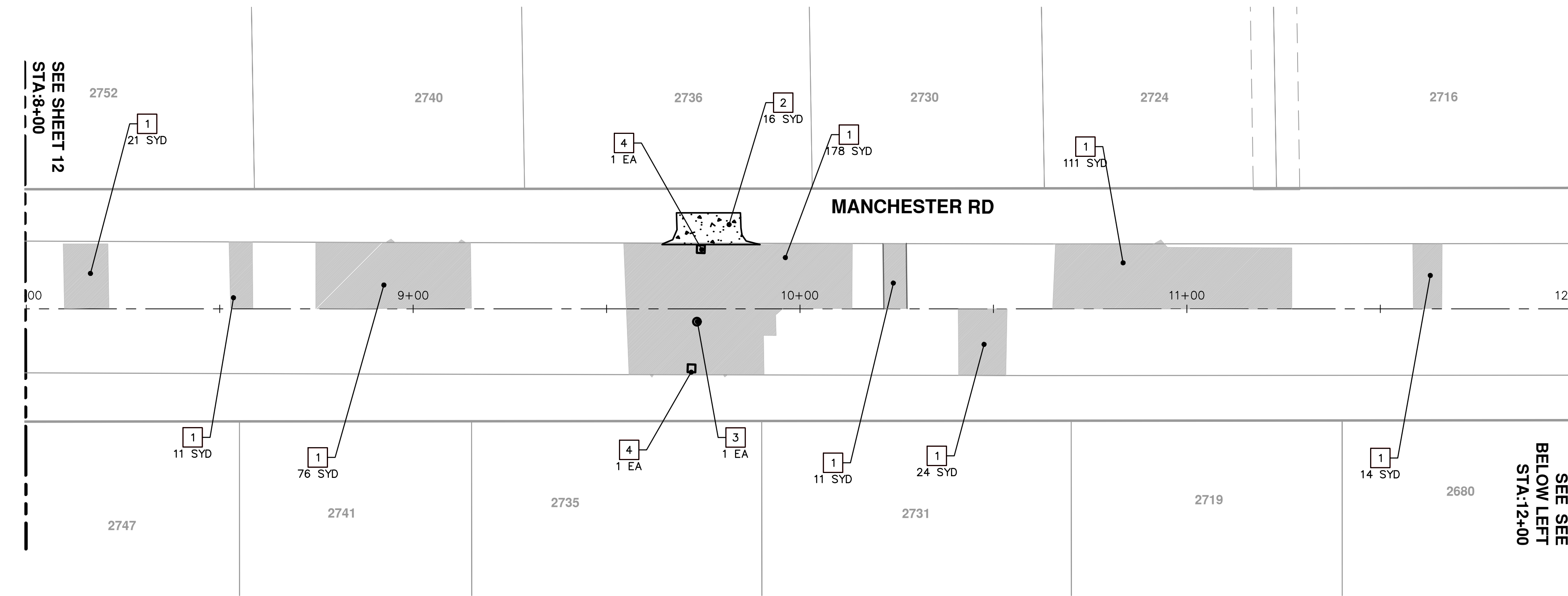
CITY OF ANN ARBOR
 PUBLIC SERVICE
 301 EAST HURON STREET
 ANN ARBOR MI 48106-8647
 ANN ARBOR MI 734-794-4410
 www.a2gov.org

CITY OF ANN ARBOR MICHIGAN

MANCHESTER RD AND MANCHESTER CT JOINTING PLAN
 STA 0+00 TO 8+00

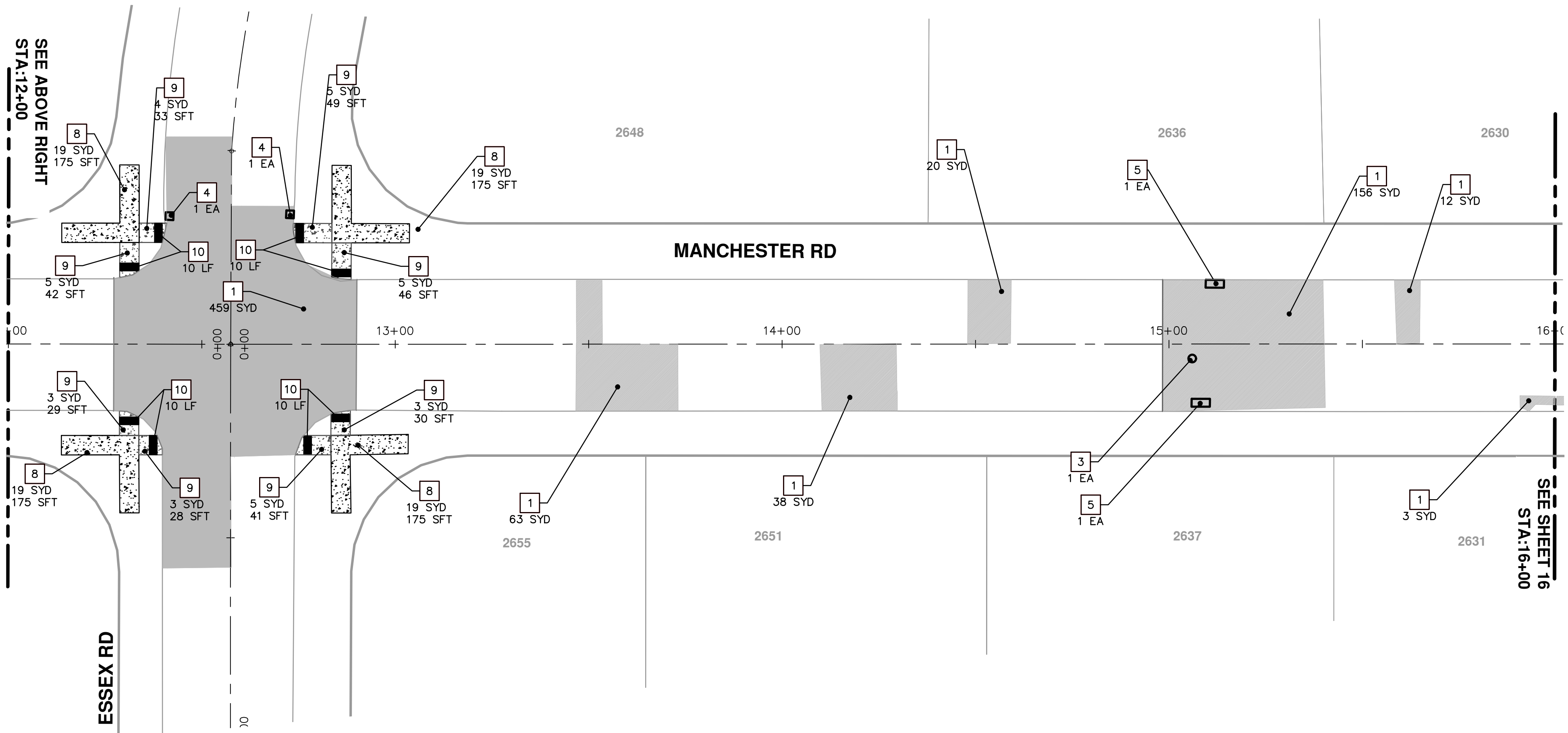
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PROJECT CONSTRUCTION INCLUDES THE REMOVAL AND REPLACEMENT OF SIDEWALK AT VARIOUS ADDRESSES WITHIN THE PROJECT LIMITS THAT IS NOT SHOWN ON THE PLANS. THE QUANTITIES FOR THIS WORK ARE REFLECTED IN THE OVERALL PROJECT QUANTITIES, AND SPECIFICALLY SHOWN BELOW.

SIDEWALK, REM = 795 SYD
GRADING, SIDEWALK = 795 SYD
SIDEWALK, CONC, 4 INCH, MODIFIED = 6,800 SFT
SIDEWALK, CONC. 6 INCH, MODIFIED = 350 SFT



CONSTRUCTION KEY	
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4	DR. STRUCTURE REMOVE, DR. STRUCTURE 24 INCH, AND DR. COVER TYPE K MODIFIED
5	DR. STRUCTURE REMOVE, DR. STRUCTURE DOUBLE INLET, AND DR. COVER TYPE K MODIFIED
6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 COLONY ESSEX MANCHESTER
 CONCRETE PAVEMENT REPAIR
 MANCHESTER RD
 STA 8+00 TO 16+00 REMOVAL AND CONSTRUCTION PLAN

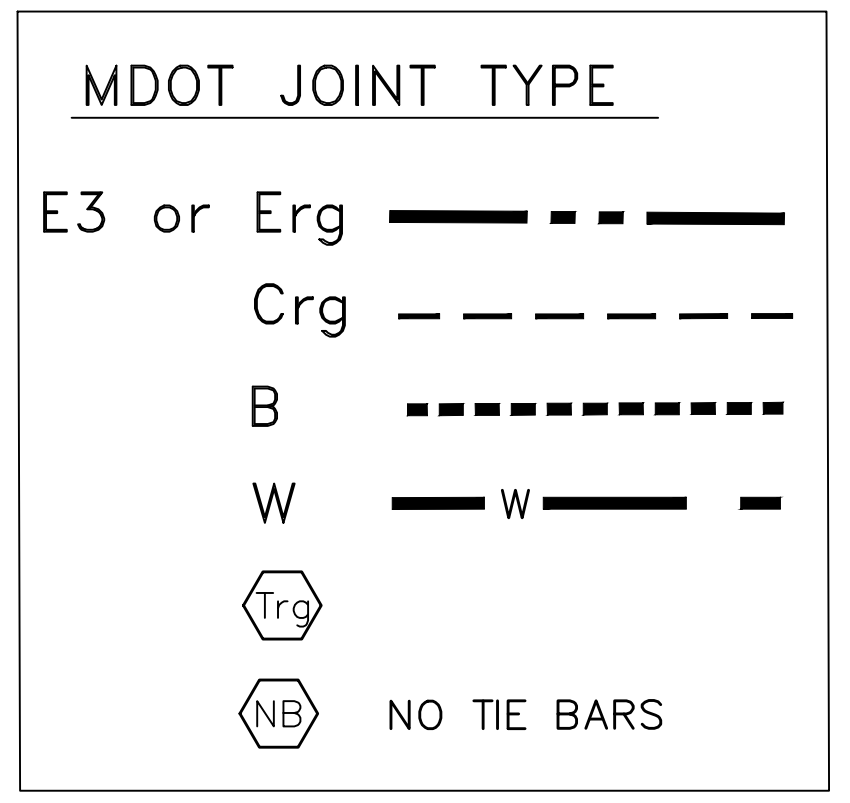
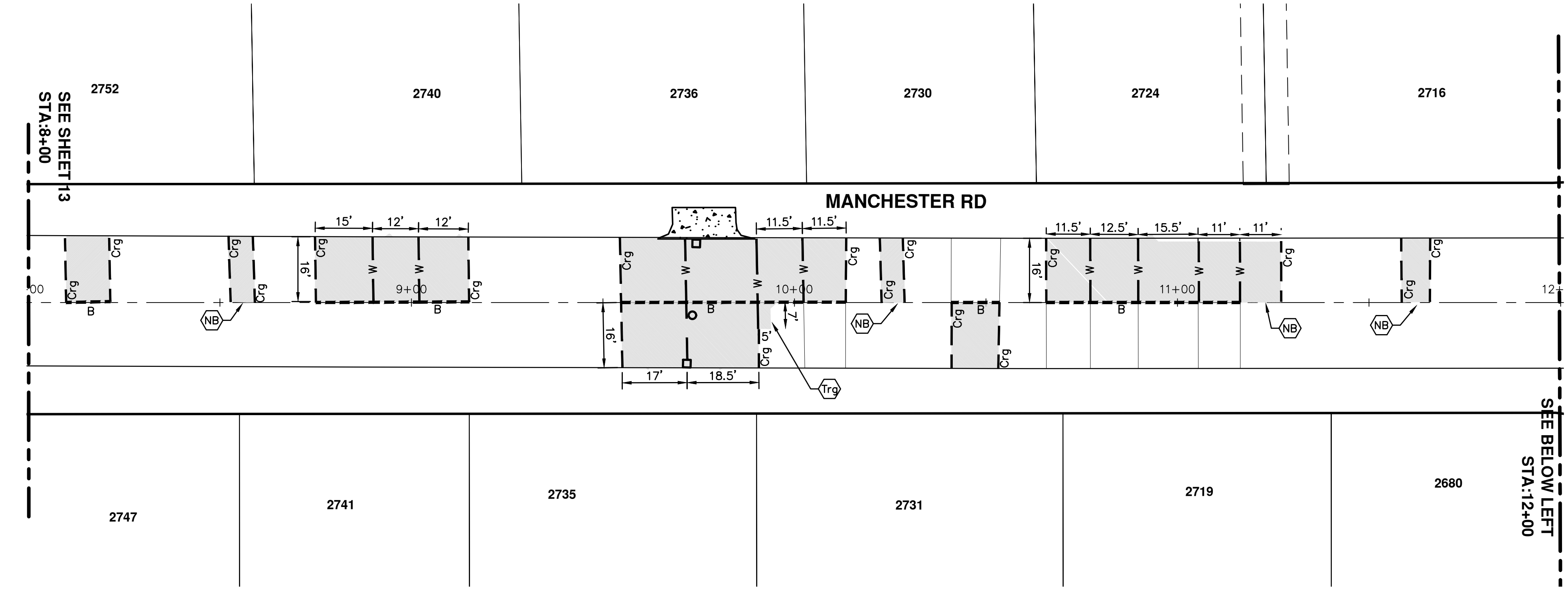
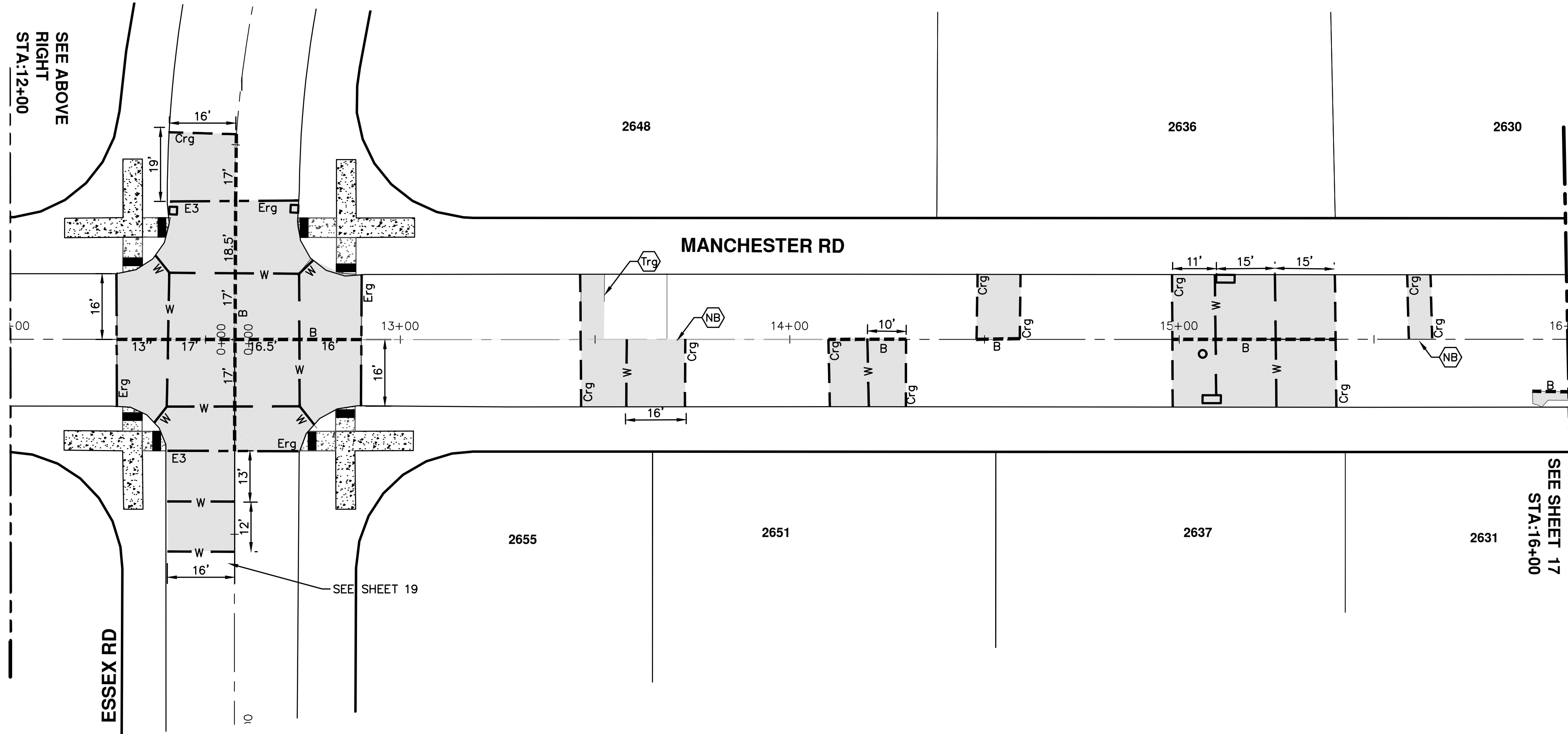
SCALE PLAN: 1" = 20'
 DRAWING No. 2015024-16

811
 Know what's below.
 Call Before you dig.

REV.	DATE	DESCRIPTION
02	6-11-15	ADDENDUM #2
01	3-31-2015	BID SET
00	2-27-2015	REVIEW 1

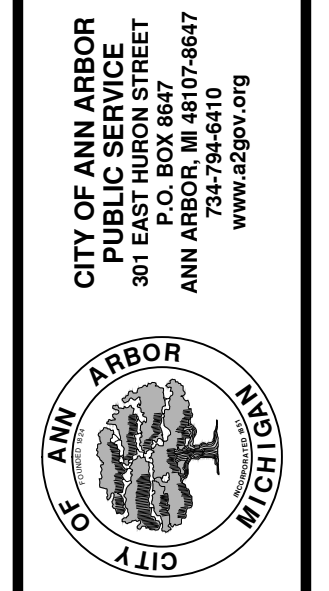
CITY OF ANN ARBOR
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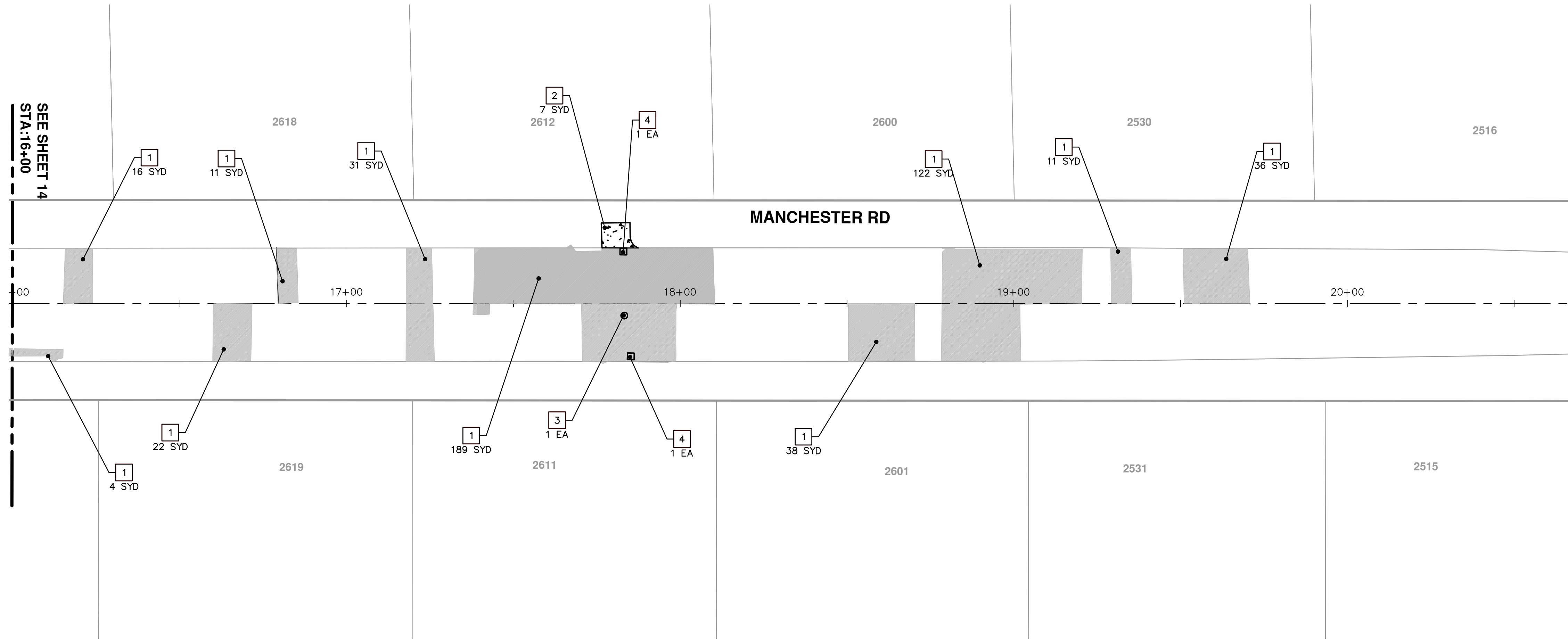
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 MANCHESTER RD
 STA 8+00 TO 16+00 JOINTING PLAN

SCALE PLAN: 1" = 20'
 DRAWING No. 2015024-17



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	ADDENDUM #2	6-11-15	DFP	DAD
01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD





PROJECT CONSTRUCTION INCLUDES THE REMOVAL AND REPLACEMENT OF SIDEWALK AT VARIOUS ADDRESSES WITHIN THE PROJECT LIMITS THAT IS NOT SHOWN ON THE PLANS. THE QUNATITES FOR THIS WORK ARE REFLECTED IN THE OVERALL PROJECT QUANTITIES, AND SPECIFICALLY SHOWN BELOW.

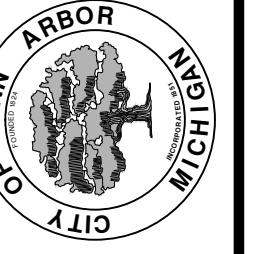
SIDEWALK, REM = 795 SYD
GRADING, SIDEWALK = 795 SYD
SIDEWALK, CONC, 4 INCH, MODIFIED = 6,800 SFT
SIDEWALK, CONC. 6 INCH. MODIFIED = 350 SFT

CONSTRUCTION KEY	
KEY	DESCRIPTION
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5	DR. STRUCTURE REMOVE, DR. STRUCTURE DOUBLE INLET, AND DR. COVER TYPE K MODIFIED
6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE



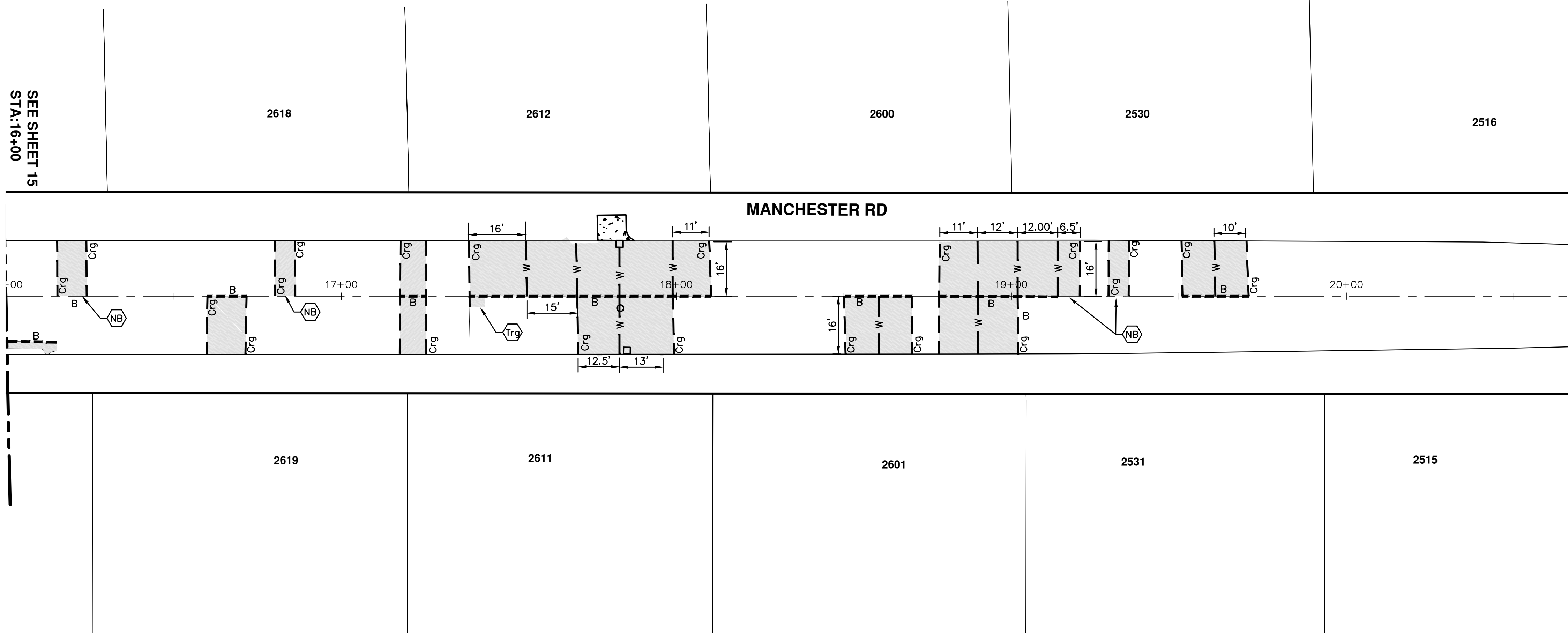
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01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 MANCHESTER RD
 STA 16+00 TO 20+00 REMOVAL AND CONSTRUCTION PLAN

SCALE PLAN: 1" = 20'
 DRAWING No.
 2015024-18



SEE SHEET 15
STA:16+00

2618

2612

2600

2530

2516

MANCHESTER RD

2619

2611

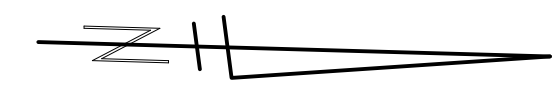
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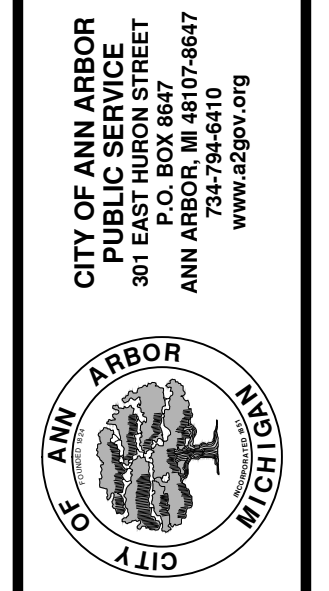
MDOT JOINT TYPE

- E3 or Erg
- Crg
- B
- W
- Trg
- NO TIE BARS

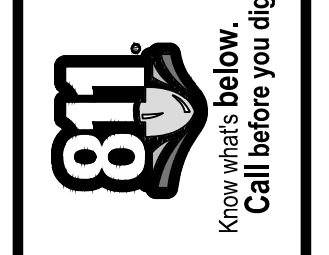


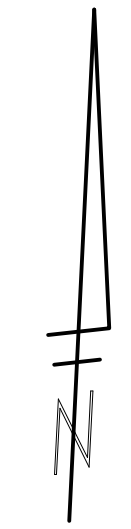
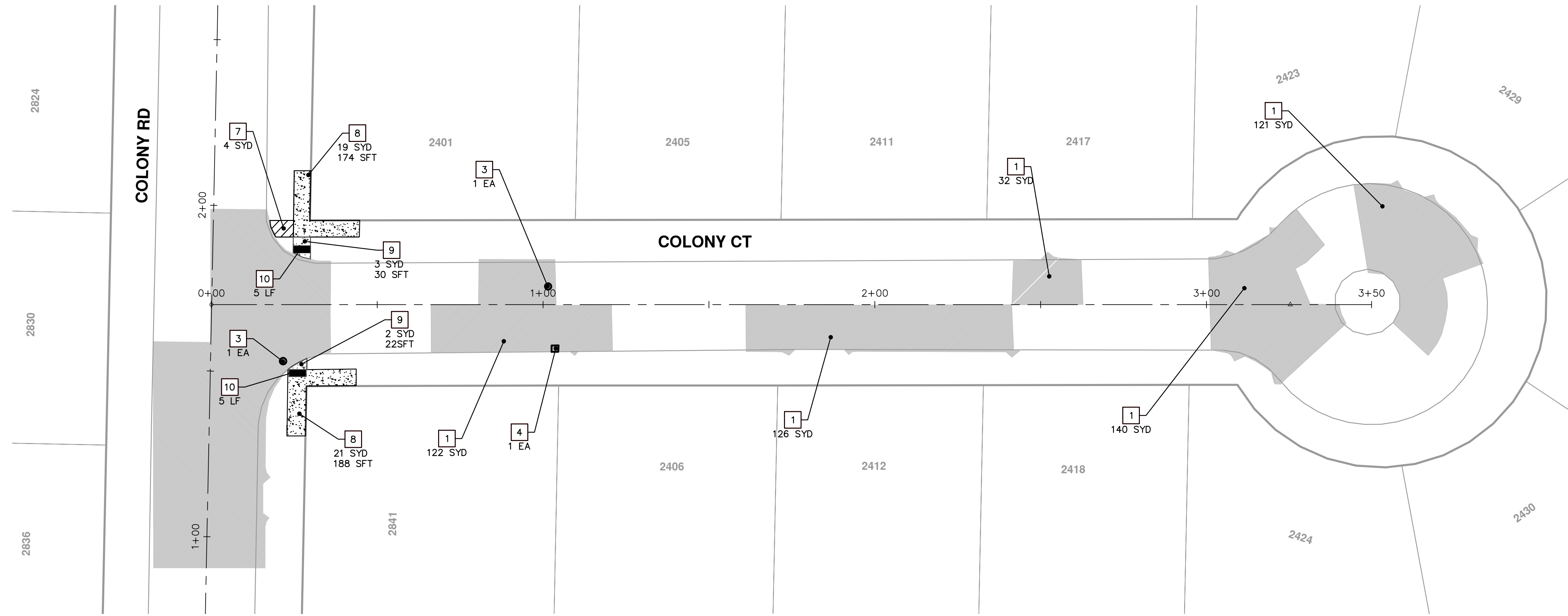
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 MANCHESTER RD
 STA 16+00 TO 20+00 JOINTING PLAN

SCALE PLAN: 1" = 20'
 DRAWING No.
2015024-19



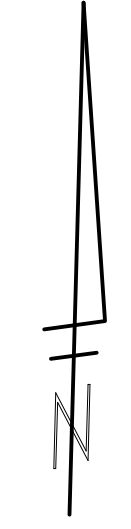
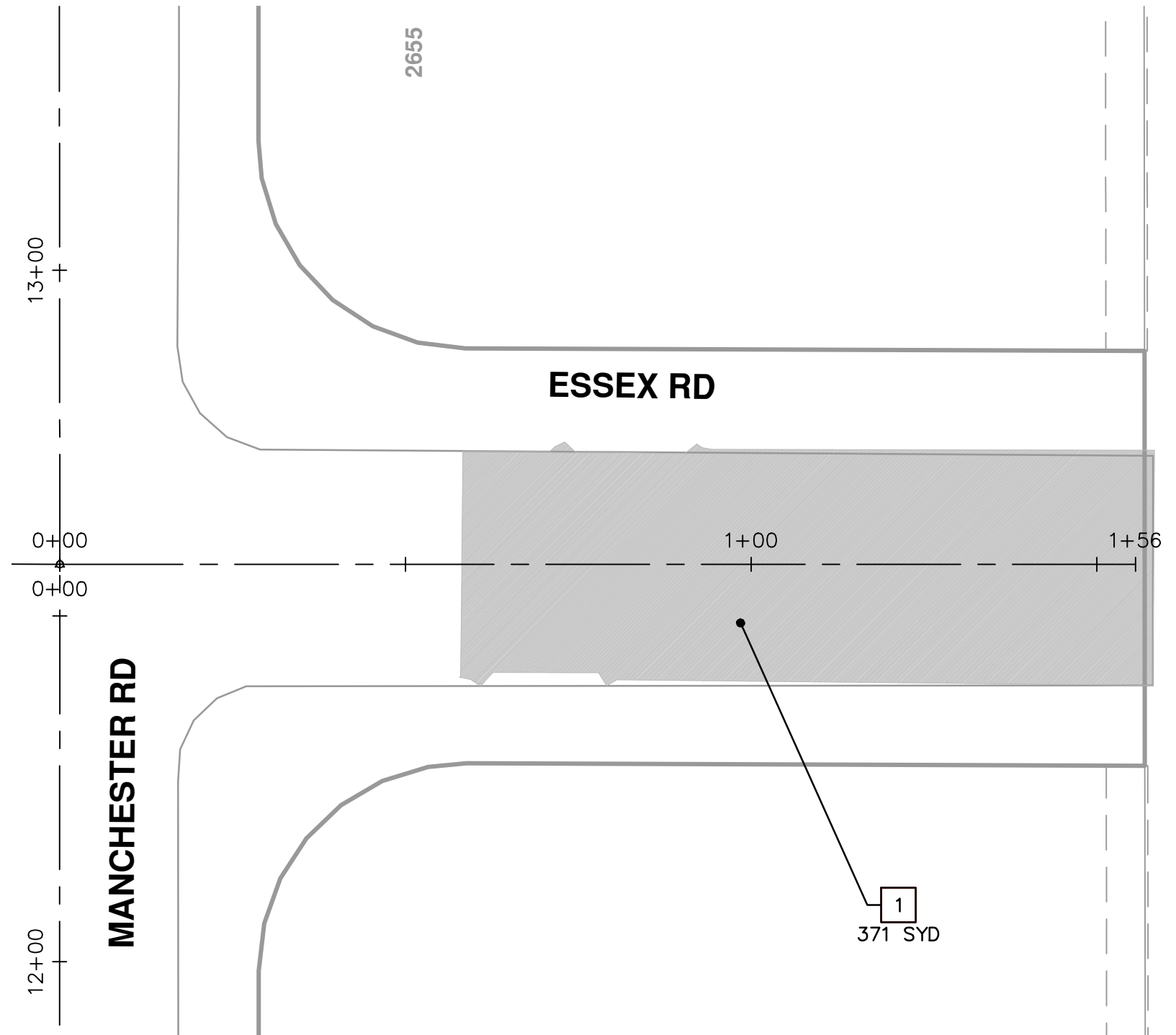
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02	ADDENDUM #2	6-11-15	DPF	DAD
01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD





PROJECT CONSTRUCTION INCLUDES THE REMOVAL AND REPLACEMENT OF SIDEWALK AT VARIOUS ADDRESSES WITHIN THE PROJECT LIMITS THAT IS NOT SHOWN ON THE PLANS. THE QUANTITIES FOR THIS WORK ARE REFLECTED IN THE OVERALL PROJECT QUANTITIES, AND SPECIFICALLY SHOWN BELOW.

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GRADING, SIDEWALK = 795 SYD
SIDEWALK, CONC, 4 INCH, MODIFIED = 6,800 SFT
SIDEWALK, CONC. 6 INCH. MODIFIED = 350 SFT



CONSTRUCTION KEY	
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6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1" = 20'

DRAWING No. **2015024-20**

SHEET No. **20 OF 27**

COLONY ESSEX MANCHESTER

CONCRETE PAVEMENT REPAIR

COLONY CT AND ESSEX EAST

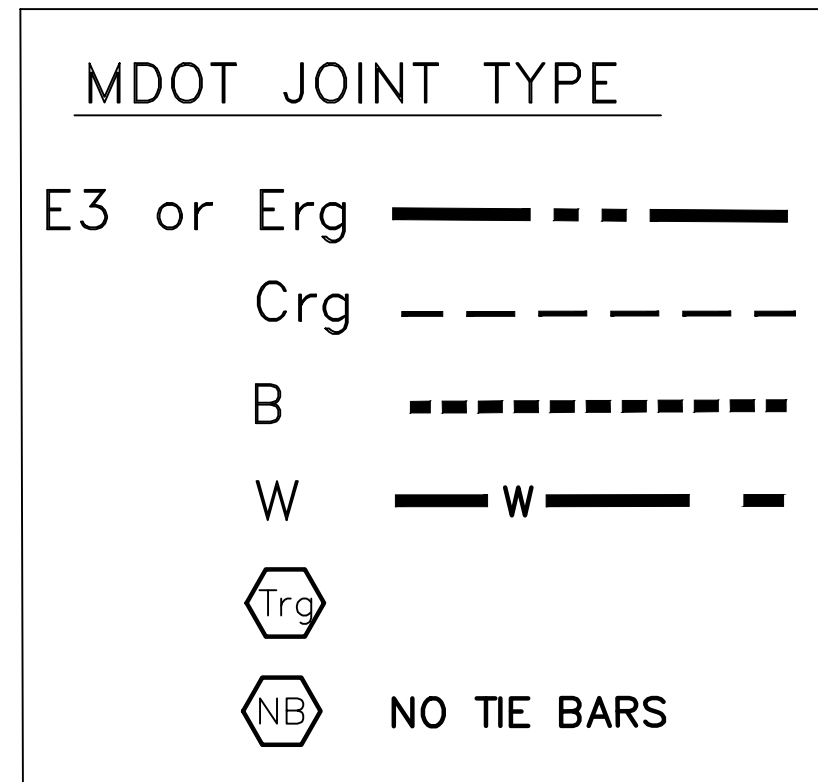
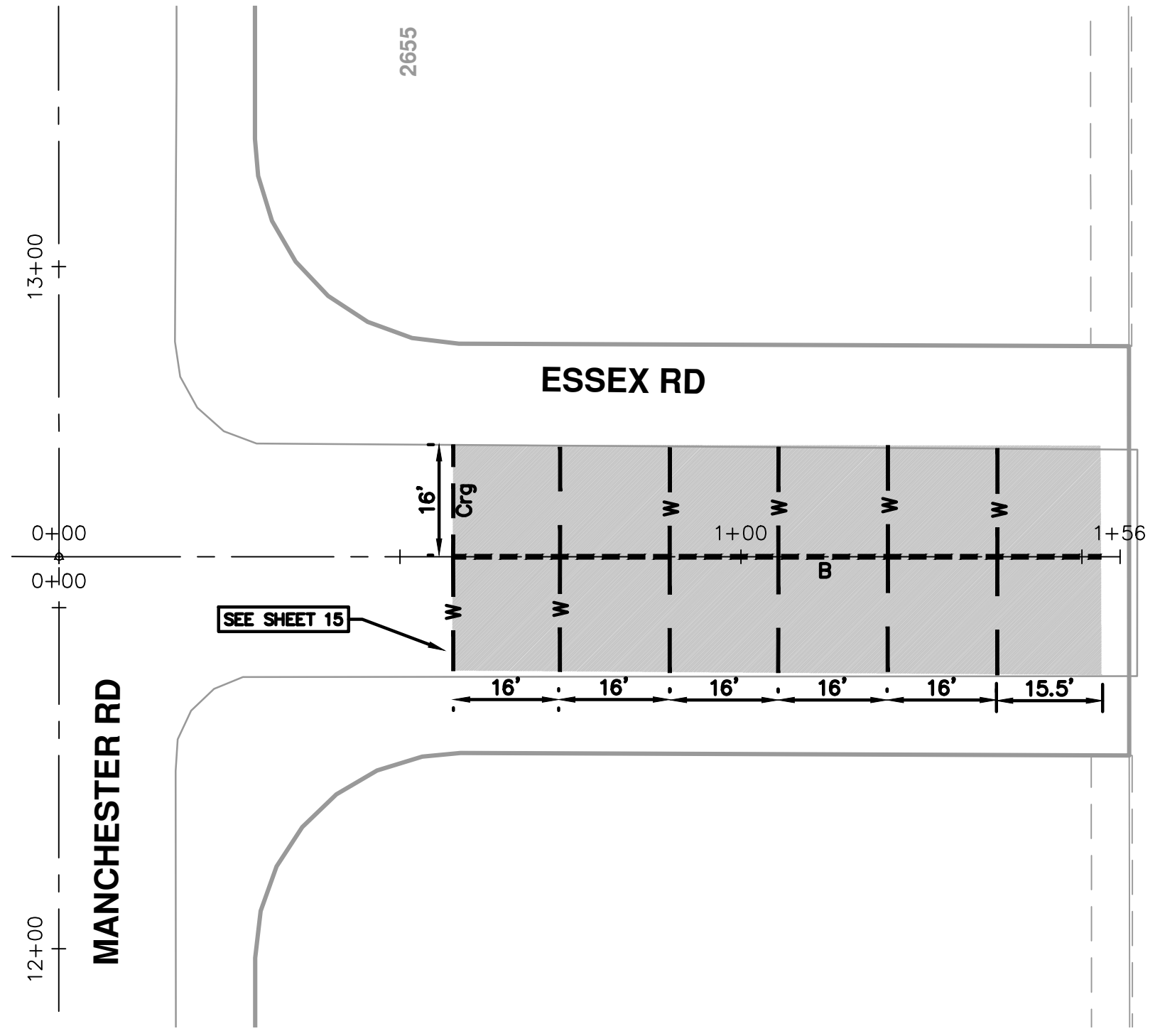
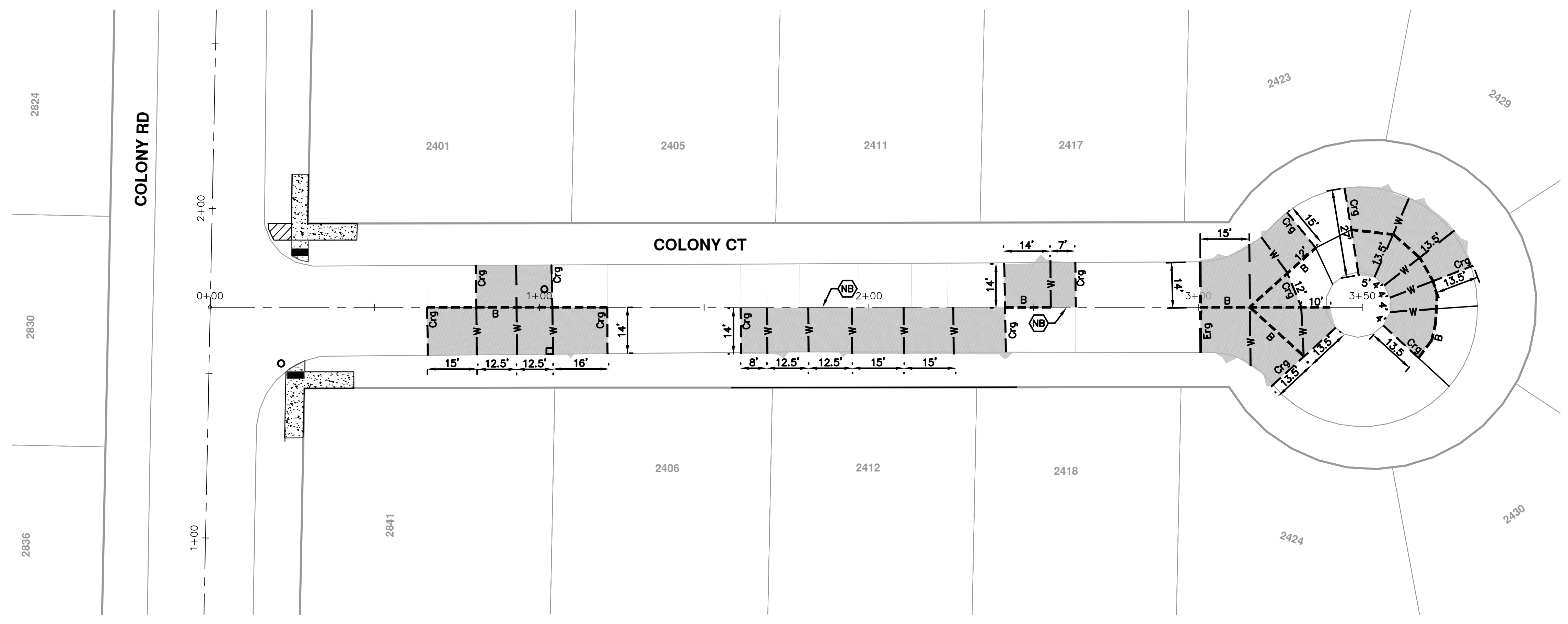
STA 0+00 TO 1+55 REMOVAL AND CONSTRUCTION PLAN

CITY OF ANN ARBOR
 PUBLIC SERVICES
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 ANN ARBOR, MI 48106-0667
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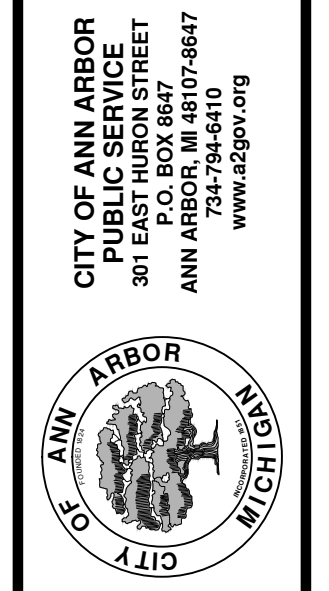
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00	REVIEW 1	2-27-2015	RAG	DAD
01	BID SET	3-31-2015	RAG	DAD
02	ADDENDUM #2	6-11-15	DFP	DAD

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Call Before you dig.

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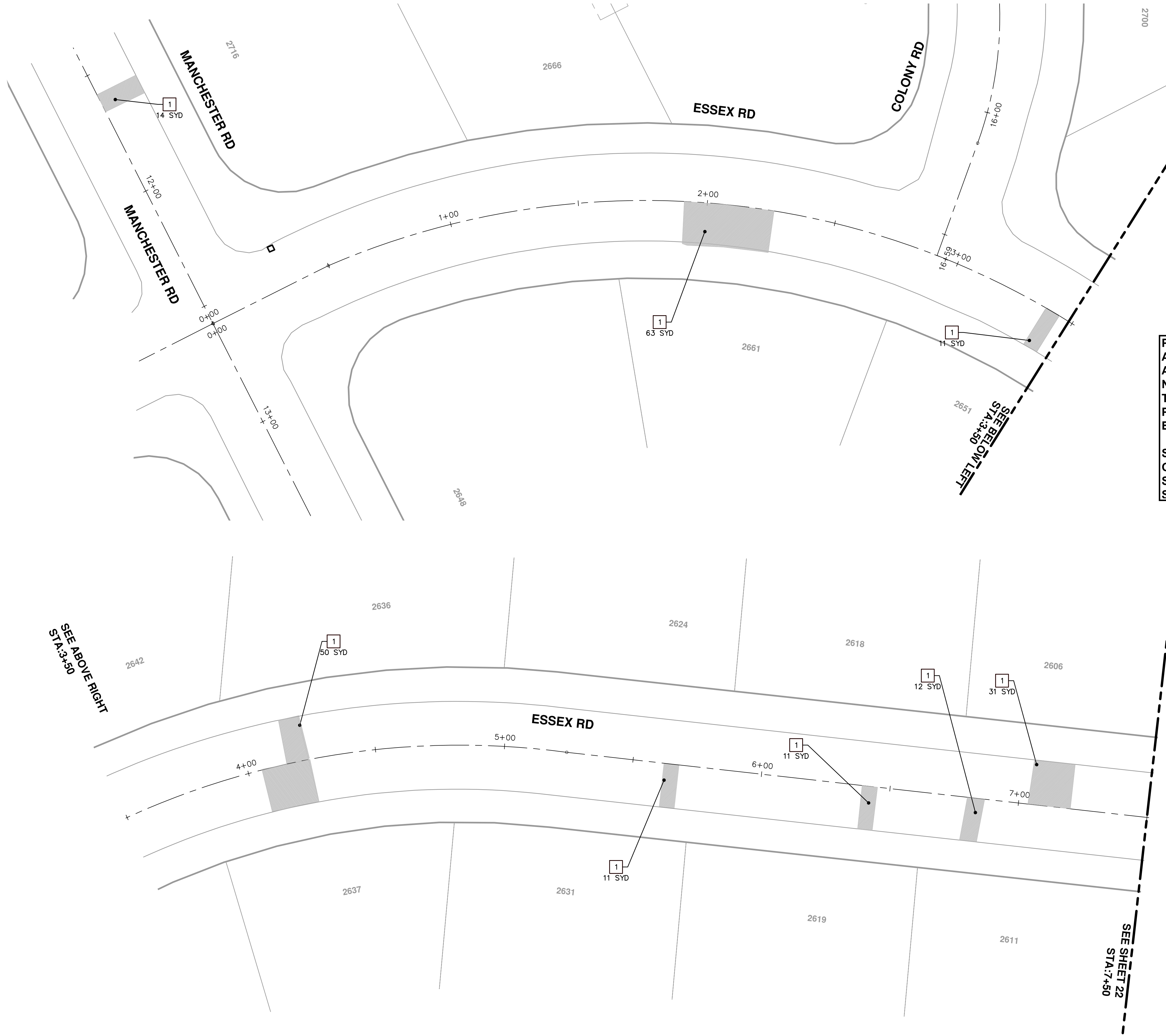
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 COLONY CT AND ESSEX EAST
 STA 0+00 1+55 JOINTING PLAN



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	ADDENDUM #2	6-11-15	DPF	DAD
01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD



S:\Project Management\Design\2015024 Colony Essex Manchester\Plan Production\Primary\2015024RESF.dwg Dwg Created: 18-Dec-14 - _a2_standard bw.stb - Plot Date: 10-Jun-15



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GRADING, SIDEWALK = 795 SYD
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SIDEWALK, CONC. 6 INCH, MODIFIED = 350 SFT

SEE ABOVE RIGHT
STA. 3+50

SEE SHEET 22
STA. 7+50

CONSTRUCTION KEY	
KEY	DESCRIPTION
1	PAVT REMOVE AND CONC. PAVT. NONREINF. 6 INCH
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8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
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10	DETECTABLE WARNING SURFACE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

COLONY ESSEX MANCHESTER

CONCRETE PAVEMENT REPAIR


ESSEX RD

STA 0+00 TO 7+50 REMOVAL AND CONSTRUCTION PLAN

SCALE PLAN: 1" = 20'

DRAWING No. 2015024-22


SHEET No. 22 OF 27



CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR MI 48108-8647
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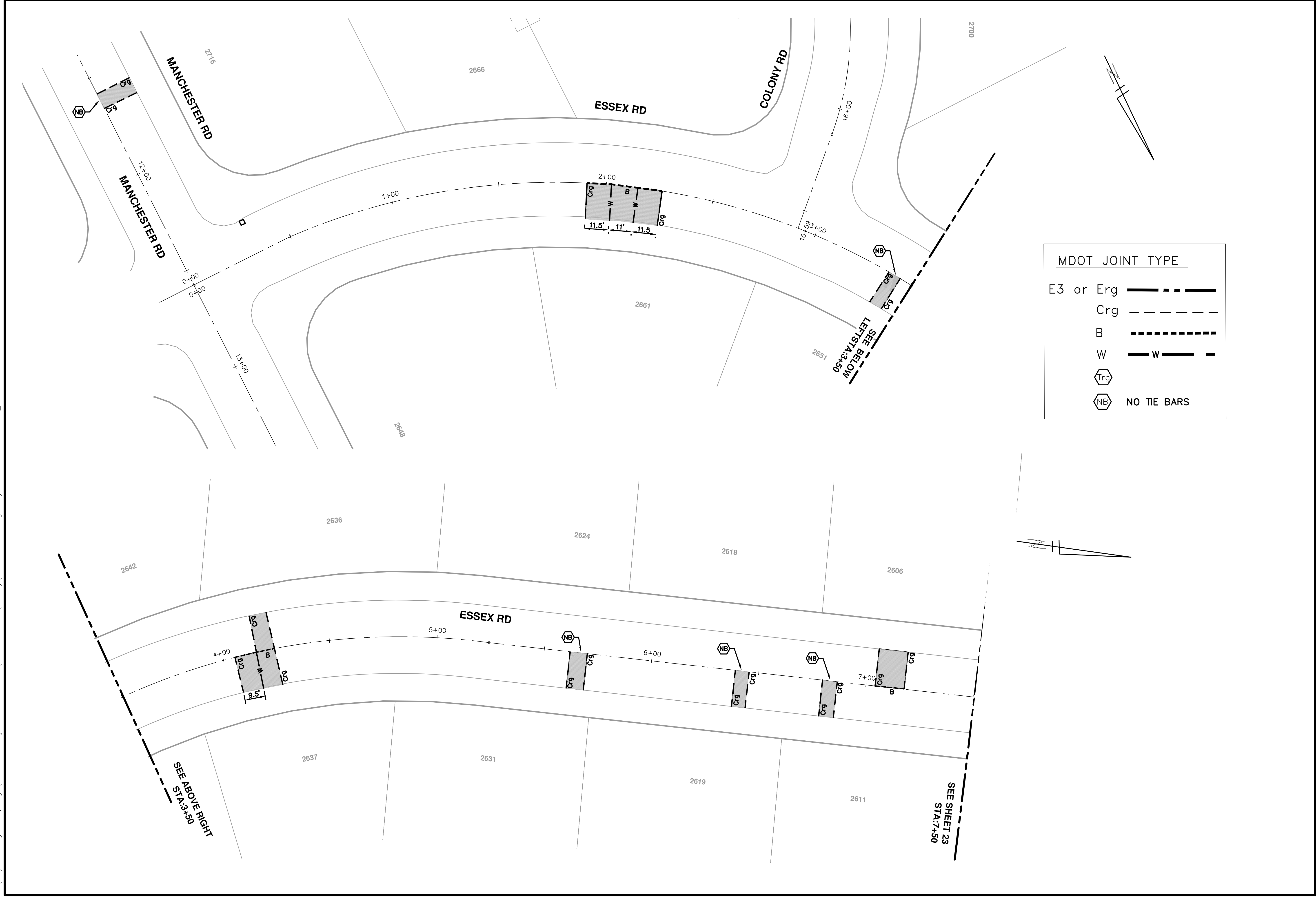
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01	3-31-2015	RAG
02	6-11-15	DPF



ADDENDUM #2

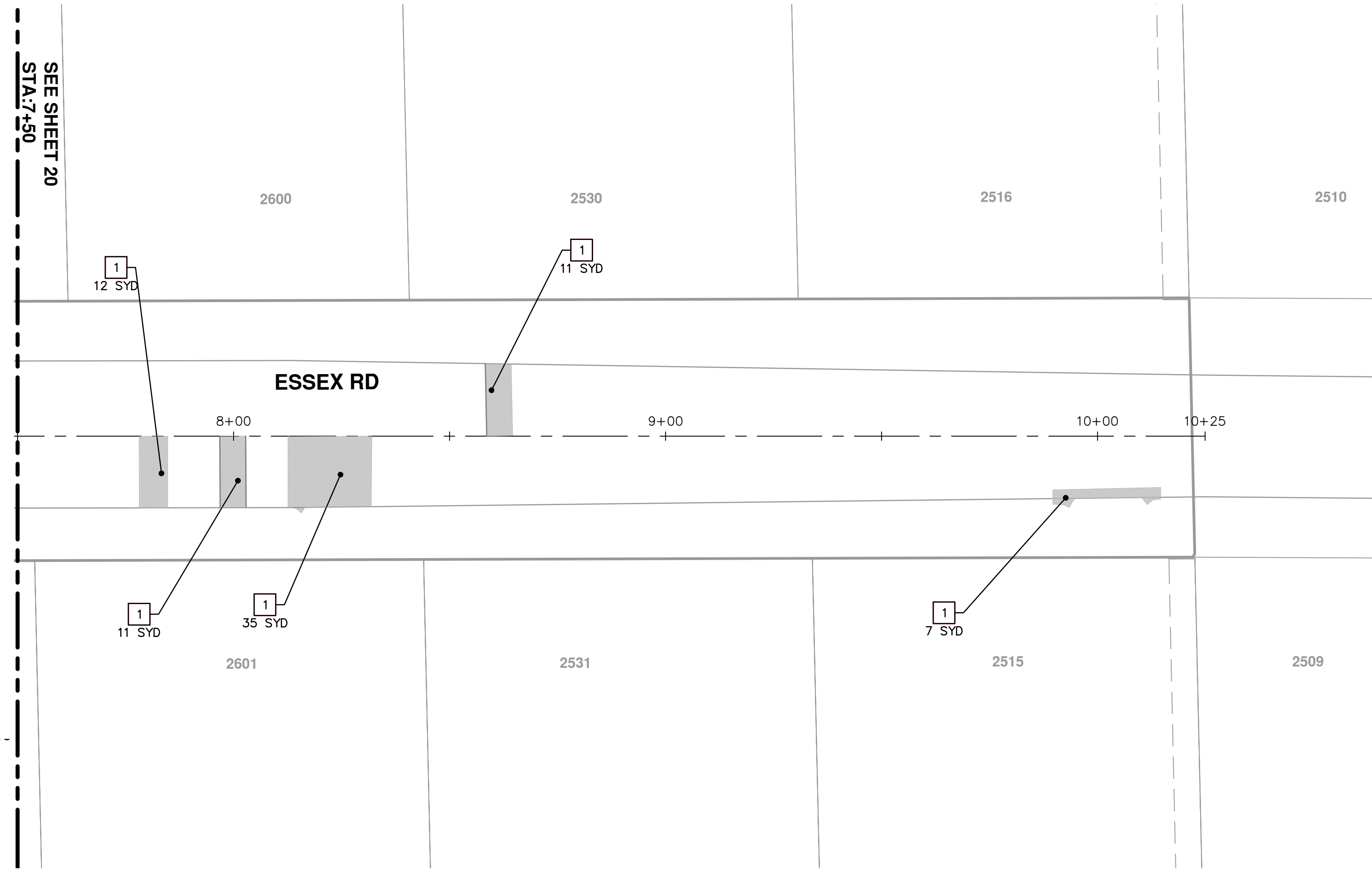


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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR COLONY ESSEX MANCHESTER CONCRETE PAVEMENT REPAIR		DAD DAD DAD DAD	
SCALE PLAN: 1" = 20' DRAWING No. 2015024-23		6-11-15 3-31-2015 2-27-2015	
SHEET No. 23 OF 27		ADDENDUM #2 BID SET REVIEW 1	
CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org		DESCRIPTION DATE DRAWN CHECKED	
STA 0+00 TO 7+50 JOINTING PLAN		REV.	



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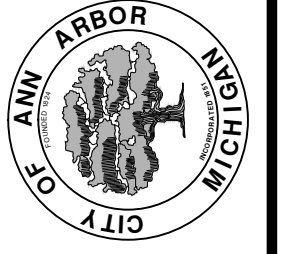
**SIDEWALK, REM = 795 SYD
 GRADING, SIDEWALK = 795 SYD
 SIDEWALK, CONC, 4 INCH, MODIFIED = 6,800 SFT
 SIDEWALK, CONC. 6 INCH, MODIFIED = 350 SFT**

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8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE



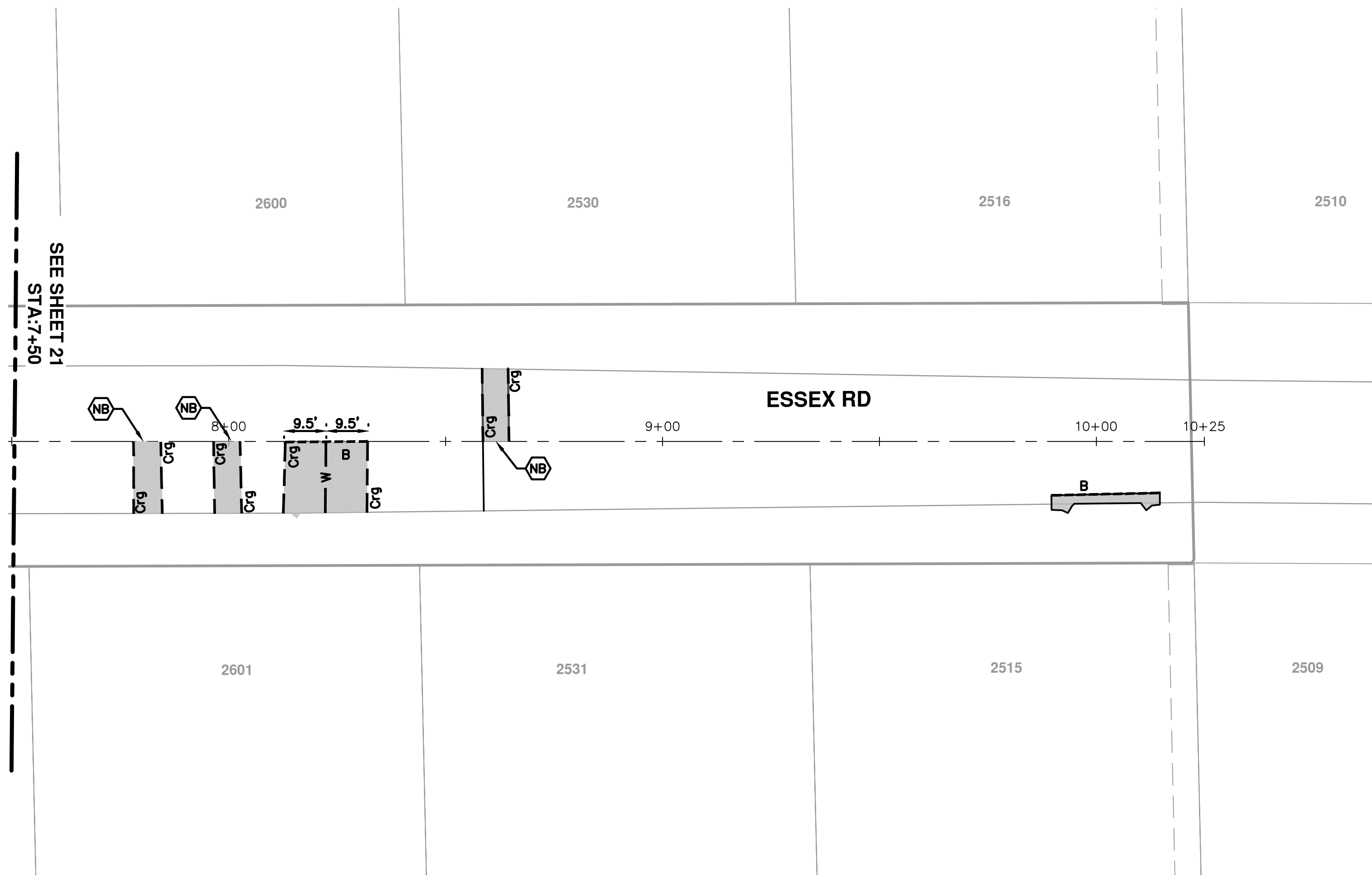
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	ADDENDUM #2	6-11-15	DPF	DAD
01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD

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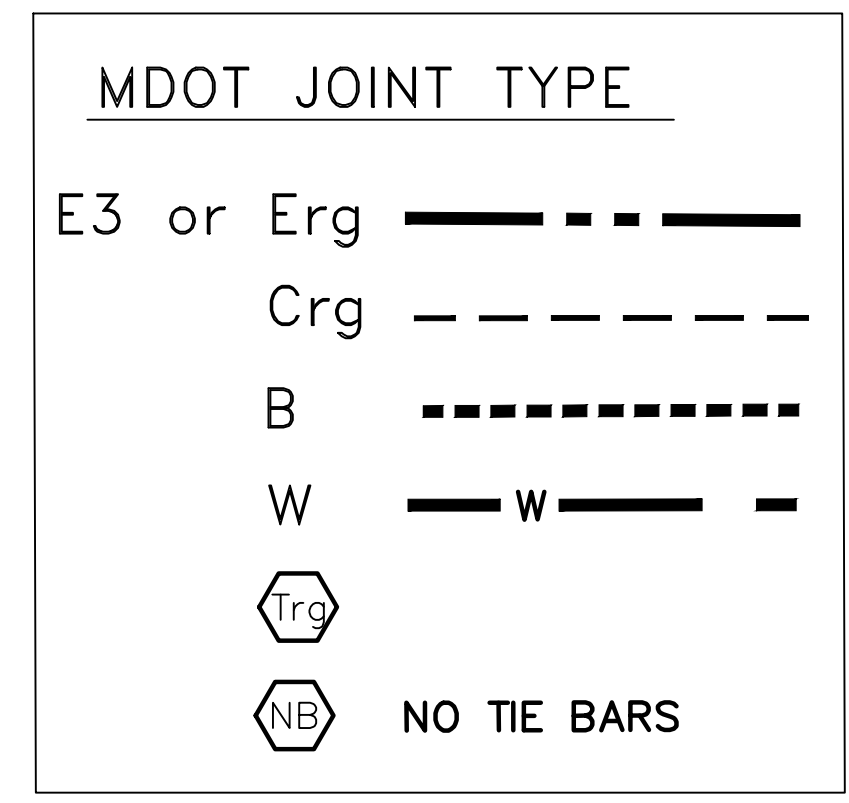


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
 ESSEX RD
 STA 7+50 TO 10+25 REMOVAL AND CONSTRUCTION PLAN

SCALE PLAN: 1" = 20'
 DRAWING No. 2015024-24

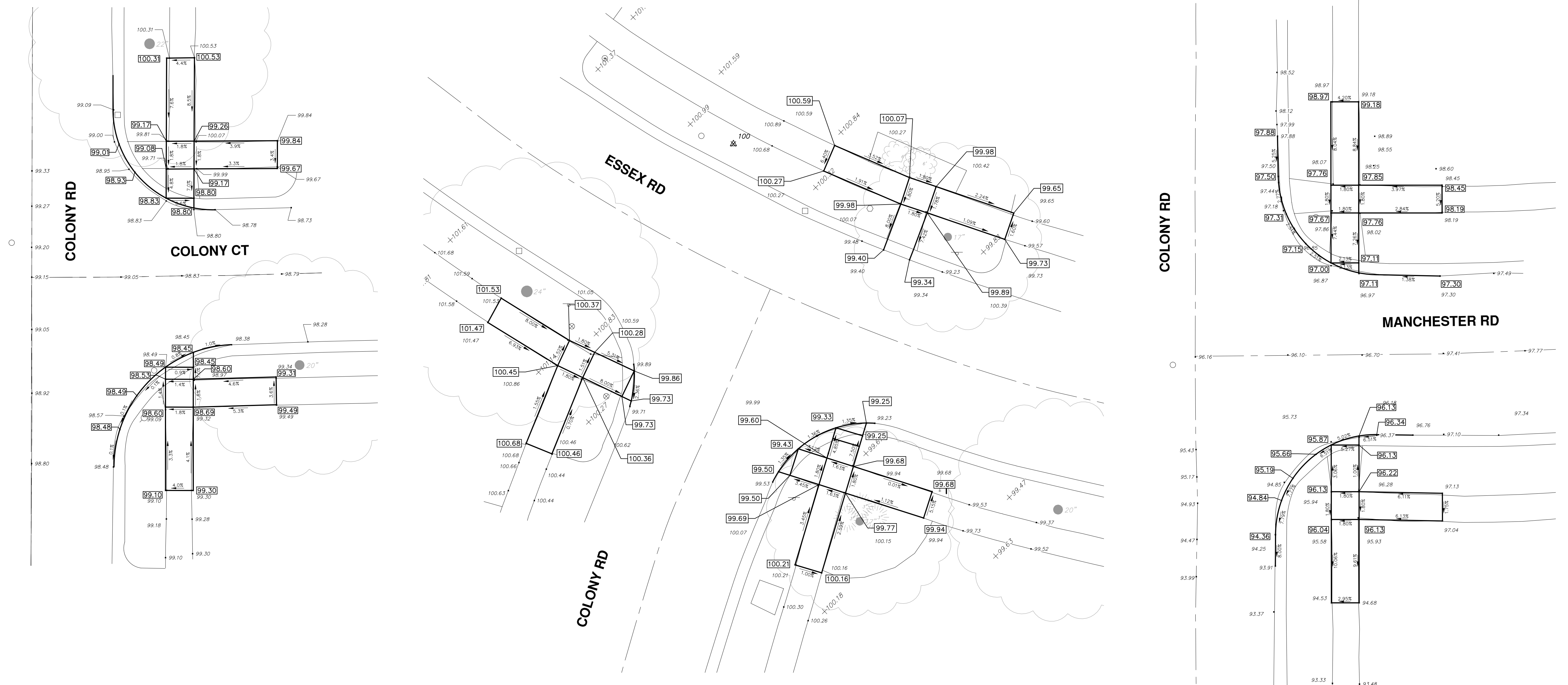


SEE SHEET 21
STA: 7+50



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
02	ADDENDUM #2	6-11-15	DPF	DAD
01	BID SET	3-31-2015	RAG	DAD
00	REVIEW 1	2-27-2015	RAG	DAD

S:\Project Management\Design\2015024\Colony Essex Manchester\Plan Production\Primary\2015024\NT.dwg Dwg Created: 8-Jun-15 10:02:41 AM Plot Date: 10-Jun-15



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 SCALE PLAN: 1" = 10'
 DRAWING No. 2015024-26

CITY OF ANN ARBOR
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 COLONY ESSEX MANCHESTER
 CONCRETE PAVEMENT REPAIR
 SIDEWALK GRADES

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	REVIEW 1	2-27-2015	RAG	DAD
01	BID SET	3-31-2015	RAG	DAD
02	ADDENDUM #2	6-11-15	DPF	DAD



