

CITY OF ANN ARBOR **PROJECT MANAGEMENT** IN COOPERATION WITH THE

MICHIGAN DEPARTMENT OF TRANSPORTATION

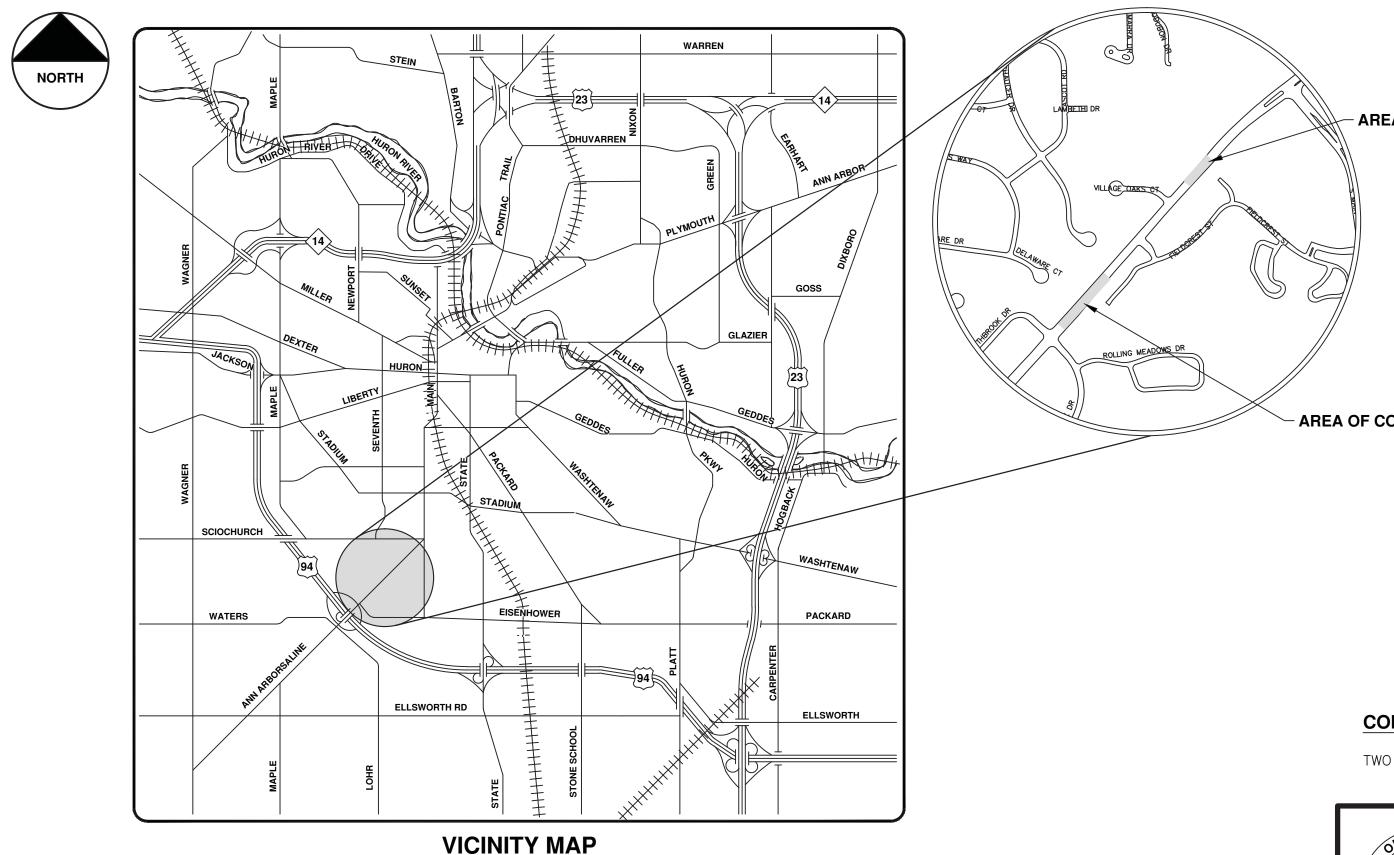
ANN ARBOR-SALINE ROAD PED CROSSINGS

SHEET LIST TABLE SHEET SHEET TITLE NUMBER COVER SHEET STANDARD NOTES & LEGEND 2 DETAILS 3 ROAD PLAN 4 GRADES PAVEMENT MARKINGS

TRAFFIC DATA		
2015 ANNUAL DAILY TRAFFIC (ADT)	25,000	
2035 ADT	28,300	
2015 COMMERCIAL	2.00%	
2035 COMMERCIAL	2.00%	
POSTED SPEED	45 MPH	
DESIGN SPEED	50 MPH	

STANDARD PLANS		
CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE CONSTRUCTED ACCORDING TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS AS INDICATED.		
REQUIRED ON THIS PROJECT	ITEM OF WORK	STANDARD PLAN NUMBERS
x	SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-1
x	SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
x	SEEDING AND TREE PLANTING	R–100–H
TRAFFIC AND SAFETY STANDARD PLANS		
x	TEMPORARY TRAFFIC CONTROL DEVICES	*WZD-125-E
x	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	*WZD-100-A
x	RECTANGULAR RAPID FLASHING BEACON	*SIG-027-B
*DENOTES SPECIAL DETAIL INCLUDED IN PROPOSAL		

MDOT JOB NO. 123795A FEDERAL ITEM NO.



*DENOTES SPECIAL DETAIL INCLUDED IN PROPOSAL

AND THE

FEDERAL HIGHWAY ADMINISTRATION

MDOT CONTROL SECTION NO. HSIP 81609 FEDERAL PROJECT NO.



NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WIT PUBLIC ACT 174, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-71 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAY SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEV 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

THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE DESIGNED IN ACCORDANCE WITH THE 2004 A.A.S.H.T.O. "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS", 2012 A.A.S.H.T.O. "GUIDE FOR PLANNING, DESIGN, AND OPERATION OF BICYCLE FACILITIES", AND THE TRAFFIC CONTROL IN ACCORDANCE WITH THE 2011 "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".



AREA OF CONSTRUCTION

AREA OF CONSTRUCTION

CONTRACT FOR:

TWO MID-BLOCK RRFB SIGNALIZED PEDESTRIAN CROSSINGS.

PROJECT MANAGEMENT SERVICE UNIT

April 12, 2015

DATE

PREPARED UNDER THE SUPERVISION OF

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



1 OF 6

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			4-12-2015	3-20-2015	1-15-15	DATE
			BID SET – REVISED	BID SET	G.I. SUBMITTAL	DESCRIPTION
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(E ANN		EV CONTRACT OF CONTRACT OF CONTRACT	O BOX 864/ ANN ARBOR, MI 48107-8647	734-794-6410 Www.a2gov.org	V/CHIGA
	CI MANAGEMENI - PUBLIC SERVICES - CITY OF ANN ARBOR					
		SCALE			DRAMNG No.	2014037-1

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123795A; HSIP 81609; JOB No. SECTION No. CONTRO 2014037 **CROSSINGS;** ROAD **ARBOR-SALIN**

GENERAL NOTES:

- 1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when 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 of material stock piles and on-site staging areas shall be approved by the Engineer.
- 3. Existing street name signs, guide, bus stop, and regulatory signs 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.
- 4. All curb, sidewalk, driveway approach removals shall be approved by the Engineer before the work is performed.
- 5. Place 4" (minimum) thickness Class II Granular Material compacted to 95% of its max. dry density under concrete sidewalk as shown on the details. This work shall be included in the contract items "_Sidewalk, Conc, 4 inch, Modified, _Sidewalk, Conc, 6 inch, and _Sidewalk Ramp, Conc, 6 inch, Modified."
- 6. A uniform coat(s) of curing compound shall be applied according to the Standard Specifications and Special Provisions regardless of the difficulty involved. The Contractor shall take care to prevent overspray when applying curing compound. Several different methods may need to be developed to protect various situations, but all methods used to prevent overspray of the curing compound shall be completely effective. Methods used shall be approved by the Engineer prior to use, however approval of a method does not guarantee success or acceptability. No additional compensation shall be made for complying with these requirements.

GENERAL 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 THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND 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. 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.
- 10. 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.
- 11. 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.

BM #	ELEV	DESCRIPTION
1	908.471	Fnd RR Spike in E'ly side of utility pole on W. Side of Ann Arbor-Saline Rd. Pole is 2nd pole S. of Center Line of Northbrook.
2	899.420	N.W. anchor bolt on light pole @ S.W. corner of Ann Arbor-Saline Rd. & Oakbrook
3	895.144	Found chiseled "[]" on S.E. corner of S. end of headwall for drain crossing 200'± N. of Northbrook.
4	899.295	Set RR spike in E'ly side of utility pole on W. side of Ann Arbor-Saline Rd. Pole is 4th pole N. of Center Line of Northbrook.
5	912.367	Set RR spike in E'ly side of utility pole on W. side of Ann Arbor-Saline Rd. Pole is 1st pole S. of Center Line of Village Oaks Ct.
6	925.629	Fnd nail in E'ly side of utility pole on W. side of Ann Arbor-Saline Rd. Pole is 3rd pole N. of Center Line of Village Oaks Ct.
7	927.197	Steamer valve on hydrant on W. side of Ann Arbor-Saline Rd. opposite entrance drive for shopping center.
8	932.244	Set RR spike in E'ly side of utility pole on W. side of Ann Arbor-Saline Rd. Pole is in front of "Brookhaven Place Retirement Home.

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 (734) 794-641		
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE (734) 794-6320		
RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE (734) 794-6320		
* NO COST TO CONTRACTOR			

CONTACT INFORMATION

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

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PR	OPOSED LEGEND				S	
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			CONCRETE	GEM		
			SIDEWALK	MANAGEN		
		•	TREE (DECIDUOUS)	PROJECT M		No. 7.7
		Z · Z	TREE (CONIFEROUS)		SCALE : NA	DRAWING No. 2014037-2

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EXIS1

STING LEGEND
TIRE HYDRANT
GATE VALVE IN BOX
GATE VALVE IN WELL
STOP BOX
VATER VAULT
VELL
CATCH BASIN (SQ)
CATCH BASIN (RD)
STORM MANHOLE
NON-CURB CATCH BASIN (SQ)
SANITARY MANHOLE
CLEAN-OUT
POST
PEDESTRIAN SIGNAL
SIGN
HAND HOLE
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FLOOD LIGHT
INKNOWN MANHOLE
ELEPHONE MANHOLE
ELEPHONE RISER
GAS VALVE
GAS VENT
GAS BOX
ELECTRICAL RISER
RANSFORMER
JTILITY POLE
AMP POLE
GUY ANCHOR
GUY POLE

W	WATER MAIN
r	STORM SEWER
S	SANITARY SEWER
	GAS MAIN
	ELECTRICAL OVER HEAD
	ELECTRICAL UNDER GROUND
	BOUNDARY
	BUILDING
	CENTERLINE OF DITCH
	CENTERLINE/CROWN OF ROAD
	EDGE OF WATER
//////	FENCE
:·:·	GRAVEL
	STONE WALL
	R.O.W.
	TREELINE
	WETLAND
	TREE (DECIDUOUS)
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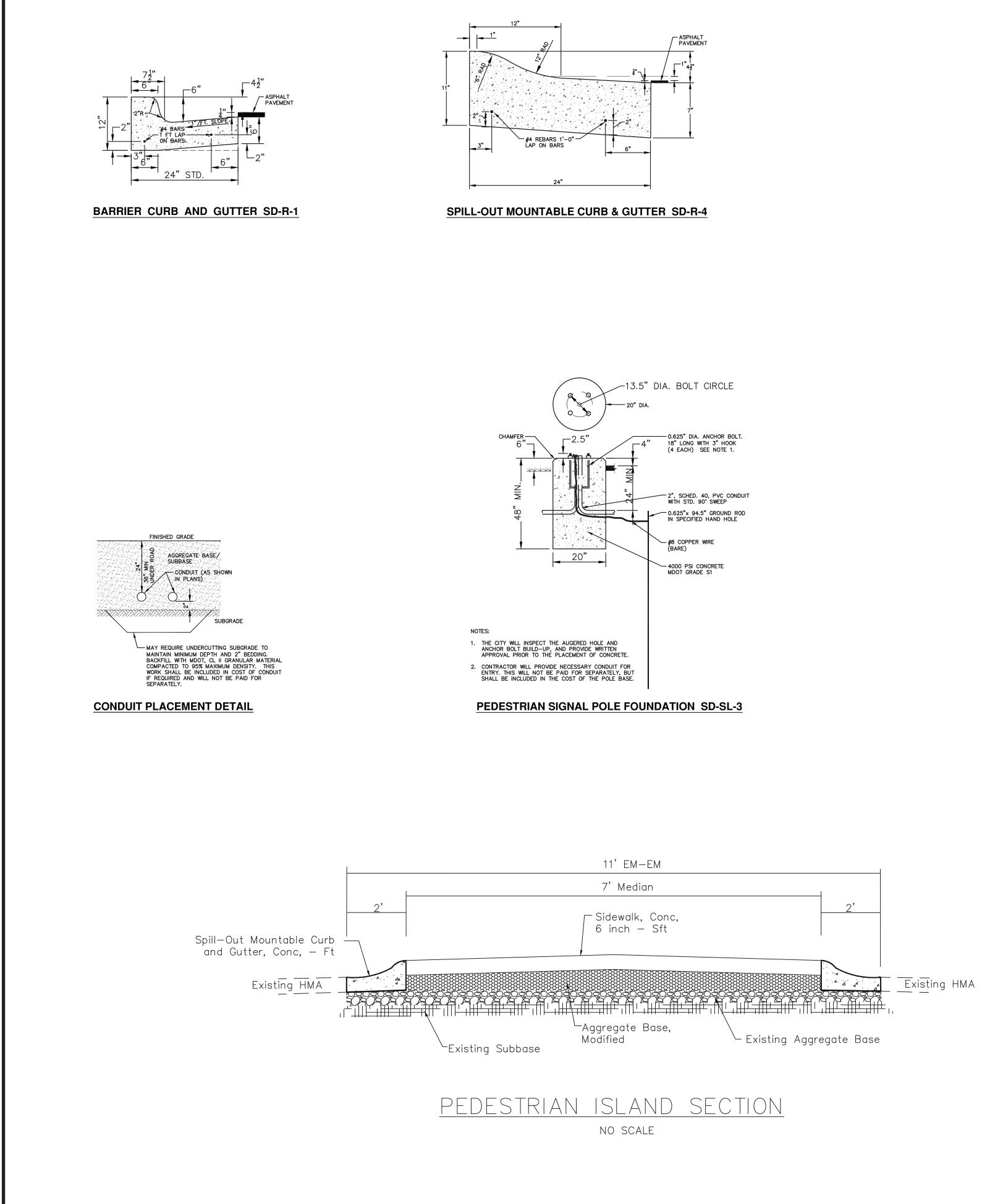
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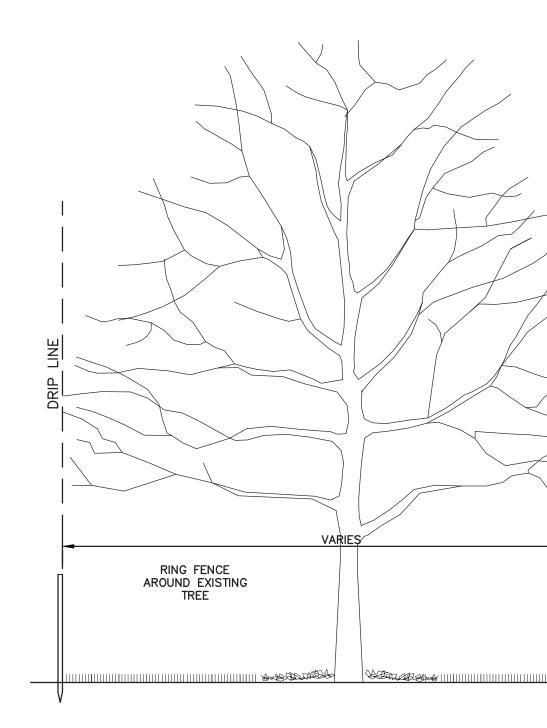
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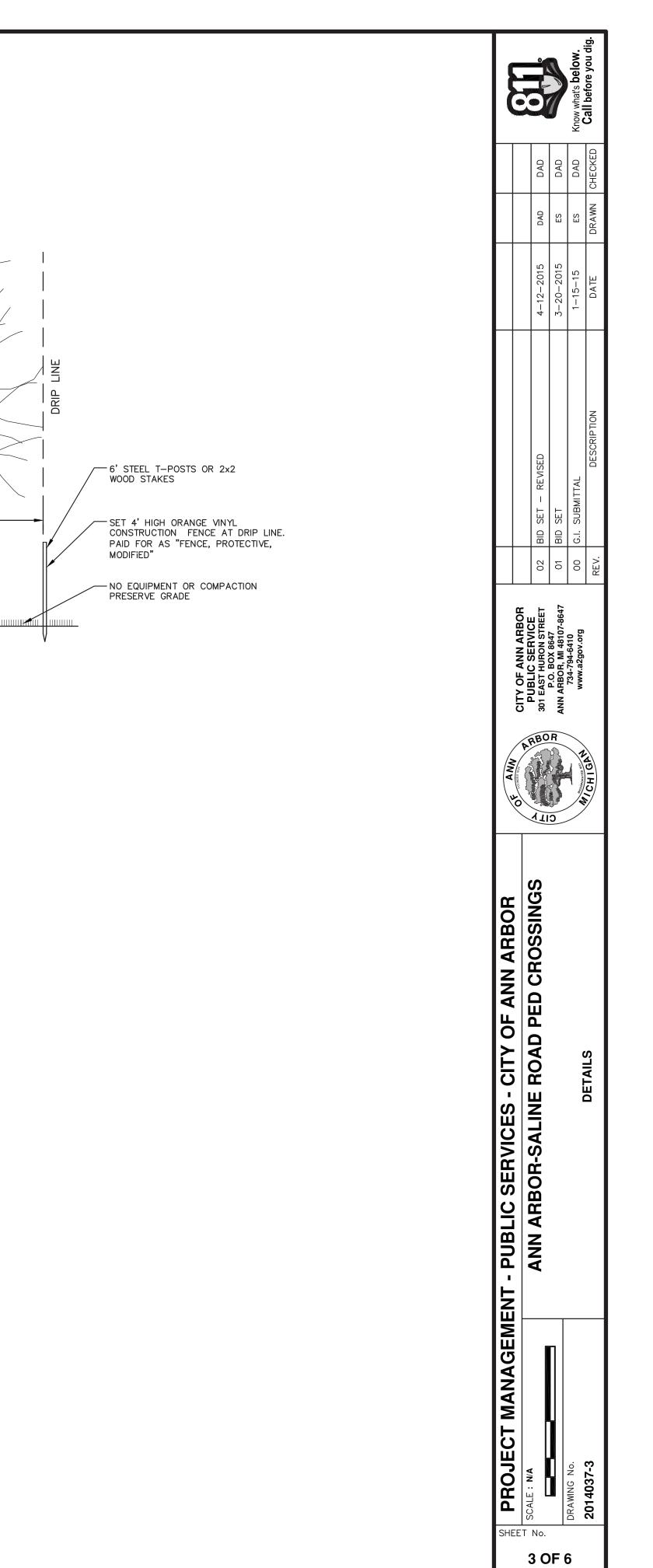
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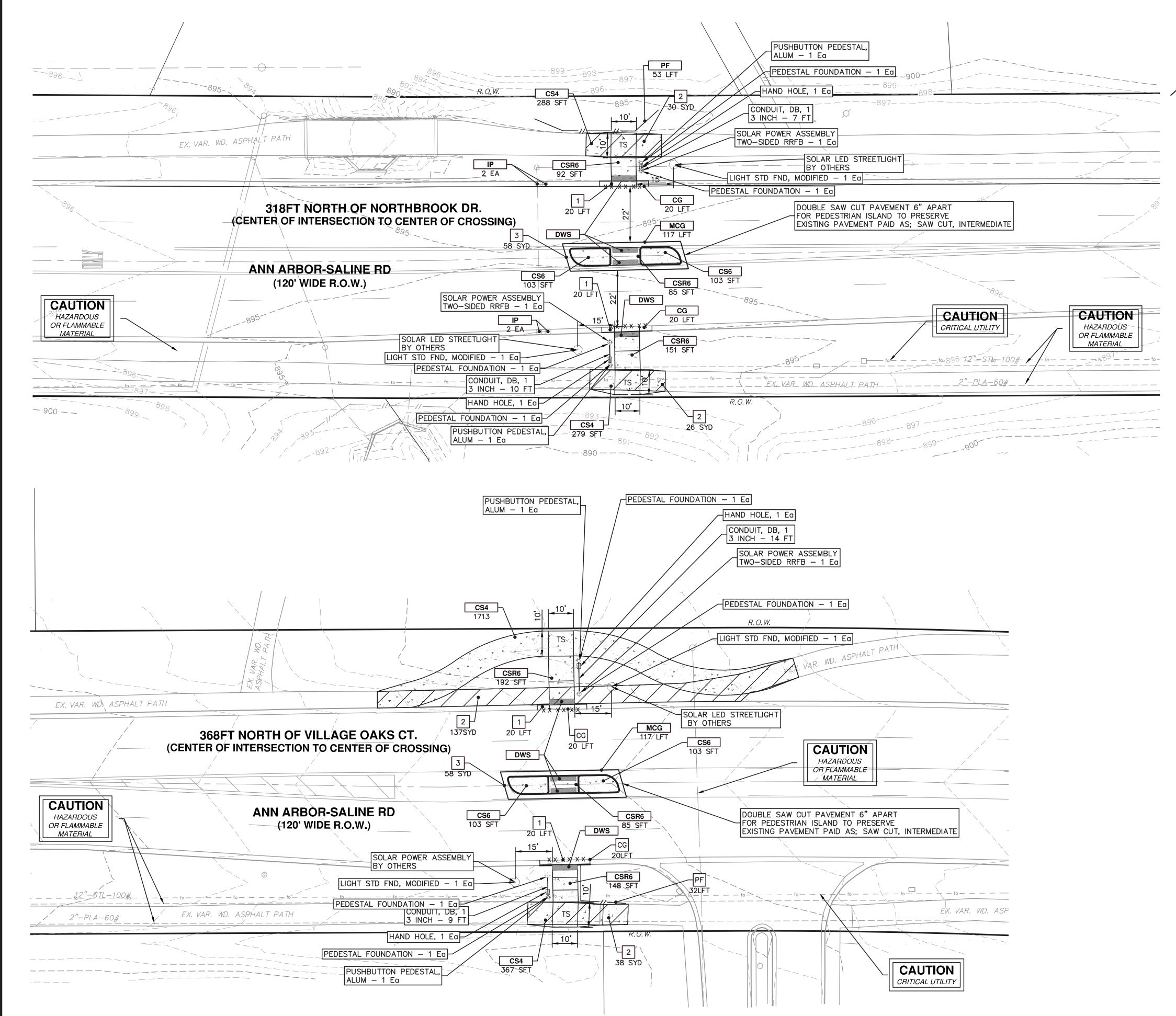
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TREE PROTECTION DETAIL





5	SESC MEASURES KEY		
KEY	DESCRIPTION		
PF	INSTALL PROTECTIVE FENCING		
IP	INSTALL INLET FILTER		
SF	SILT FENCE		
	•		

	REMOVAL KEY		
KEY	DESCRIPTION		
1	CURB AND GUTTER, REM		
2	SIDEWALK, REM		
3	HMA SURFACE REMOVAL – ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS		

CONSTRUCTION KEY	
КЕҮ	DESCRIPTION
CG	PLACE BARRIER CURB AND GUTTER, CONC
MCG	PLACE SPILL-OUT MOUNTABLE CURB AND GUTTER, CONC
CS4	PLACE SIDEWALK, CONC, 4 INCH, MODIFIED
CS6	PLACE SIDEWALK, CONC, 6 INCH, MODIFIED
CSR6	PLACE SIDEWALK RAMP, CONC, 6 INCH, MODIFIED
DWS	DETECTABLE WARNING SURFACE, MODIFIED

