# PITTSFIELD CHARTER TOWNSHIP WASHTENAW, MICHIGAN

# OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING

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\*MDOT SPECIAL DETAIL



# LOCATION MAP

APPLICATION DATE	PERMITS	APPROVAL DATE

# WASHTENAW COUNTY ROAD COMMISSIONERS

DOUG FULLER

• CHAIR OF THE BOARD•

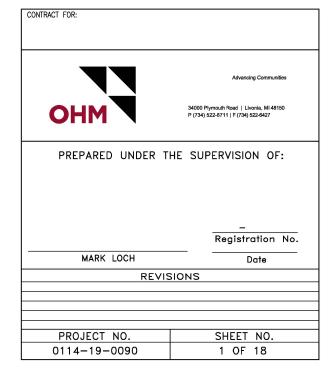
BARBARA RYAN FULLER

•VICE CHAIR OF THE BOARD•

 $\square$ 

RODRICK K. GREEN

• MEMBER •



#### GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2005 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS DATED 8-28-08.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF AUBURN HILLS WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACTS 173 & 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482–7171 (OR 811). UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY OF AUBURN HILLS.

THE ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

#### PROPERTY CORNERS

ANY PROPERTY CORNERS WITHIN THE FRONT OR BACK SLOPE SHALL BE STAKED AND PROTECTED BY RIBBON. THE REPLACEMENT OF ANY PROPERTY CORNERS THAT ARE DAMAGED UNNECESSARILY BY THE CONTRACTOR'S OPERATIONS WILL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR. RE—ESTABLISHMENT OF ALL PROPERTY CORNERS WILL BE PERFORMED BY A MICHIGAN LICENSED PROFESSIONAL SURVEYOR AT THE CONTRACTORS EXPENSE.

#### BENCH MARK ELEVATIONS

BENCHMARK ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988

#### CONSTRUCTION & SOIL EROSION CONTROL SCHEDULE

PLACE SILT FENCE, CURB AND GUTTER, AND INLET PROTECTION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

REMOVE EXISTING PAVEMENT AND STORM SEWERS. GRADE CONSTRUCTION AREAS. INSTALL NEW STORM SEWER AND WATER MAIN AND CONSTRUCT CURB AND GUTTER. IMMEDIATELY AFTER CONSTRUCTION, FINISH GRADE CONSTRUCTION AREA TO PROVIDE POSITIVE DRAINAGE; THEN TOPSOIL AND SEED ALL DISTURBED GRASSED AREAS. PLACE SEFDING AS SHOWN IN TYPICALS.

REMOVE INLET FILTERS AS PAVEMENT IS INSTALLED. AFTER PAVING REINSTALL STONE FILTERS AT ALL PAVEMENT STORM INLET STRUCTURES, AND CLEAN STORM SEWER OF ALL ACCUMULATED DEBRIS AND SERVICED AND SERVICED FOR THE PARTY OF THE PARTY O

REMOVE TEMPORARY EROSION CONTROLS AFTER THE SITE IS APPROVED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT TEMPORARY EROSION CONTROLS ARE MAINTAINED AS REQUIRED THROUGHOUT CONSTRUCTION AND THAT THE ROADWAYS ARE KEPT FREE OF MUD AND CONSTRUCTION DEBRIS.

#### SOIL EROSION AND SEDIMENTATION CONTROL

THE CONTRACTOR SHALL CONFORM TO PART 91 OF ACT 451 OF 1994 OF THE STATE OF MICHIGAN; SOIL EROSION AND SEDIMENTATION CONTROL, AND ALL LOCAL ORDINANCE(S) FOR SOIL EROSION AND SEDIMENTATION CONTROL

# SOIL EROSION & SEDIMENTATION CONTROL MEASURES (MDOT STANDARD PLAN R-96 SERIES)

THE FOLLOWING MEASURES SHALL BE USED FOR TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL AS SHOWN BY THE CORRESPONDING NUMBER ON THE PLAN SHEETS, OR AS INDICATED IN THE NOTES BELOW, AND AS DIRECTED BY THE ENGINEER. EXACT LOCATIONS FOR TEMPORARY PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE DETERMINED IN THE FIELD BY THE FINGHEFER

<u>SYMBOL</u>

<u>26</u> <u>29</u>

Frosion Control, Silt Fence

DESCRIPTION

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Erosion Control, Inlet Protection, Fabric Drop

#### UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 74, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 (OR 811) 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 RELEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

- 1. FOR WATER MAIN
  PITTSFIELD CHARTER TWP
  6201 W MICHIGAN AVE
  ANN ARBOR, MI 48108
  ATT. BILLY WERICH
  EMAIL: WERICHB@PITTSFIELD-MI.GOV
  PH: (734) 260-3951
- 2. FOR COUNTY DRAINS
  WASHTENAW COUNTY
  WATER RESOURCES COMMISSIONER'S OFFICE
  705 N. ZEEB ROAD
  ANN ARBOR, MI 48103
  ATTN: SCOTT MILLER
  EMAIL: MILLERS@WASHTENAW.ORG
  PH: (734) 222-6818
- 3. FOR TELEPHONE/ FIBER OPTIC: AT&T 550 S MAPLE RD. ANN ARBOR, MI 48103 ATTN: JOHN MILLER EMAIL: JUMP1750#TT.COM PH: (734) 996-5338
- 4. FOR TELEPHONE/ FIBER OPTIC:
  MCI/VERIZON BUSINESS
  3 PARKLANE BLVD
  DEARBORN, MI 48126
  ATTN: MARLON REDD
  EMAIL: MARLON REDD
  PH: (313) 588-0849
- ATTN: MICHAEL BRUNING EMAIL: MICHAELBRUNING@VERIZONWIRELESS.COM PH: (248) 794-7906

5. FOR ELECTRIC:
DTE ELECTRIC
8001 HAGGERTY RD.
BELLEVILLE, MI 48111
ATTN: ANTHONY IGNASIAK

FMAII: ANTHONY.IGNASIAK@DTFFNFRGY.COM

6. FOR GAS:
DTE GAS
17150 ALLEN RD
MELWINDALE, MI 48122
ATTN: LAURIE FORRESTER
LAURIE-FORRESTER®DITENBERGY.COM
PH: (313) 389-7992

PH: (734) 397-4447

- 7. FOR CABLE/ FIBER OPTIC:
  COMCAST
  25626 TELEGRAPH RD
  SOUTHFIELD, MI 48033
  ATTN: CHRIS CYR
  EMAIL: CHRIS\_CYR@CABLE.COMCAST.COM
  PH: (248) 521-8868
- 8. FOR STREET LIGHTING:
  DTE ELECTRIC
  8001 HAGGERTY RD.
  BELLEVILLE, MI 48111
  ATTN: BRANDON FARON
  EMAIL: BRANDON, FARON
  PH: (734) 397-4017
- 9. FOR PUBLIC TRANSIT:
  ANN ARBOR TRANSIT AUTHORITY/THE RIDE
  2700 S INDUSTRIAL HWY
  ANN ARBOR, MI 48104
  ATTN: JEFF MURPHY
  EMAIL: JMURPHY@THERIDE.ORG

#### CONCRETE CURB AND GUTTER

THE CONTRACTOR SHALL TRANSITION CURB OVER A DISTANCE OF 10 FEET. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR CURB AND GUTTER ITEMS.

#### WATER MAIN

ALL WATER MAIN TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST Y.C.U.A. AND AWWA

#### CONSTRUCTING RIPRAP

RIPRAP SHALL BE PLACED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION SUBSECTION 813.03.E, AND SHALL INCLUDE FURNISHING AND PLACING A GEOTEXTILE LINER AS SPECIFIED. THIS LINER WILL BE INCLUDED IN THE CONTRACT LINIT PRICE FIID FOR THE RIPRAP ITEM(S).

#### **COVERS AND CASTINGS**

CASTINGS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, WITH MATERIAL APPROVED BY THE ENGINEER.

#### SAWCUTS

THE CONTRACTOR SHALL SAWCUT THE EXISTING CONCRETE AND/OR HMA PAVEMENT AND DRIVEWAYS TO THE LIMITS OF PROPOSED CONSTRUCTION, TO MAKE A NEAT AND SMOOTH CONNECTION TO THE EXISTING PAVEMENT OR PROVEWAY AS REQUIRED AND DIRECTED. THIS WORK WILL NOT BE PAID THE REPORT OF THE PREVIOUS IT LEVEL.

#### CULVERTS AND SEWERS

CULVERT AND SEWER LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE LENGTHS NEEDED FOR PLACEMENT. THE PAY QUANTITY IS LESS THE "C" DIMENSION (SEE STANDARD PLAN R-88-SERIES). PAYMENT SHALL BE MEASURED IN THE FIELD.

#### FINISH EARTH GRADING

CONSTRUCTION OF EARTH GRADES SHALL BE CLASS 'A'. REFER TO SECTION 205.03 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

#### LANDSCAPING

THE CONTRACTOR SHALL NOT DISTURB ANY LANDSCAPING FEATURES PROTECTED BY FENCING OR LOCATED OUTSIDE OF THE SLOPE STAKE LIMITS. ANY LANDSCAPING THAT IS DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BECOME THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

#### MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCEPTABLE INGRESS AND EGRESS TO ALL PROPERTIES DURING CONSTRUCTION AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR EARTHWORK ITEMS.

#### MINOR GRADING

MINOR GRADING REQUIRED TO PROVIDE POSITIVE DRAINAGE OR TO MEET EXISTING DRAINAGE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR EARTHWORK ITEMS.

#### OPEN EXCAVATIONS

THE PLACEMENT OF PROTECTIVE FENCING MEETING MIOSHA STANDARDS IS REQUIRED AROUND ALL OPEN EXCAVATIONS. THIS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AND ALMING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE ITEM UNDER CONSTRUCT

#### PROPERTY OWNERS

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

#### LAWN SPRINKLER SYSTEMS AND LANDSCAPING

THE CONTRACTOR SHALL NOTIFY OWNERS OF IRRIGATION SYSTEMS, IN WRITING, TWO (2) WEEKS IN ADVANCE OF ANY WORK TO BE DONE THAT WILL AFFECT THE EXISTING SYSTEM. A COPY OF THE NOTIFICATION LETTER SHALL BE SENT TO THE CONTRACTOR BEGINNING WORK, AND IF THE CONTRACTOR DELOCATE THE SYSTEM PRIOR TO THE CONTRACTOR BEGINNING WORK, AND IF THE CONTRACTOR DAMAGES THE EXISTING SYSTEM DURING CONSTRUCTION, THE CONTRACTOR SHALL CAP THE SYSTEM PIPE AND WITNESS THE LOCATION OF THE CAP THE SYSTEM PIPE AND WITNESS THE LOCATION OF THE CAP WITH A WOODEN STAKE FOR THE PROPERTY OWNER'S USE. THE CONTRACTOR SHALL SALVAGE ALL MATERIALS AND SHALL PLACE SALVAGED MATERIALS ON THE OWNER'S PROPERTY. THE CONTRACTOR SHALL COORDINATE REINSTALLATION WITH THE PROPERTY OWNER. IF THE PROPERTY OWNER DOES NOT INSTALL THE SPRINKLER HEADS AND PIPING, THE CONTRACTOR SHALL RESET THEM IN PLACE PRIOR TO THE FINAL ITEMS OF WORK BEING COMPLETED. THIS WORK AND ALL REQUIRED COMMUNICATION AND COORDINATION WITH THE RESIDENT IS INCLUDED IN THE SPRINKER HEADS, SALV, and Reset PAY ITEM.

#### PERMANENT TRAFFIC SIGNS

THE CONTRACTOR SHALL PROVIDE WCRC WITH A MINIMUM 72 HOURS OF ADVANCE NOTICE PRIOR TO INSTALLING ANY PERMANENT TRAFFIC SIGNS. ALL SIGN POSTS SHALL HAVE A MINIMUM DEPTH OF 42 INCHES BELOW THE SURFACE.

#### UNDERGROUND CONFLICTS

THE CONTRACTOR SHALL EXPOSE EXISTING STORM SEWERS, SANITARY SEWERS, WATER MAIN AND PRIVATE UTILITIES TO VERIFY EXISTING ELEVATIONS BEFORE COMMENCING WORK ON A PROPOSED STORM SEWER OR WATER MAIN THAT IS TO CROSS OTHER UTILITIES. THIS WORK WILL NOT BE PAID AS EXPLORATIONY EXCAVATION UNLESS PREVIOUSLY AUTHORIZED BY THE ENGINEER.

#### **UTILITIES**

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THE PLANS ARE TAKEN FROM THE BEST AVAILABLE DATA. THE WASHTENAW COUNTY ROAD COMMISSION WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARRATIONS FROM THE LOCATIONS SHOWN.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED. REPARATIONS OF UTILITIES DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE AFFECTED UTILITY OWNERS REQUIREMENTS.

ALL PRIVATE UTILITY STRUCTURES WILL BE ADJUSTED TO GRADE BY THE OWNER OF THE FACILITY. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THREE (3) WORKING DAYS NOTICE PRIOR TO THE START OF SUCH WORK.

#### CLEANING PAVEMENT

BEFORE PLACING ANY HMA MIXTURE, THE SURFACE OF THE EXISTING PAVEMENT INCLUDING ALL CURBS, CRACKS, JOINTS AND THE SURFACE OF THE NEW BASE AND LEVELING COURSES, SHALL BE THOROUGHLY CLEANED OF ALL DEBRIS AND DIRT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR OTHER HMA ITEMS.

#### STRUCTURES

DRAINAGE STRUCTURES, MANHOLES, CATCH BASINS, SANITARY SEWER STRUCTURES, GATE WELLS & VALVE BOXES WHICH MAY NEED TO BE ADJUSTED OR RECONSTRUCTED SHALL ONLY BE PAID FOR ONCE AS EITHER ADJUST, OR ADDL. DEPTH OF ADJUST, AT THE CORRESPONDING CONTRACT UNIT PRICE, REGARDLES OF HOW MANY TIMES THE INDIVIDUAL STRUCTURE IS ADJUSTED. "POINTING UP" OF STRUCTURES AS INDICATED ON THE PLANS SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT UNIT PRICE BID FOR AFFECTED DRAINAGE AND WATER PAY ITEMS. FOR STAKING, PROPOSED STRUCTURE LOCATIONS IN PLANS REFERENCE THE CENTER OF CASTING.

#### CASTINGS FOR INLETS AND CATCH BASINS

ALL CASTINGS EXCEPT TYPE B SHALL HAVE THE WORDS "DUMP NO WASTE, DRAINS TO WATERWAYS" PERMANENTLY CASTED TO THE COVER.

#### MAILBOXES AND NEWSPAPER BOXES

ALL MAILBOXES AND NEWSPAPER BOXES SHALL BE TEMPORARILY RELOCATED AND MAINTAINED DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE PROPERTY OWNER AT LEAST ONE (1) WEEK IN ADVANCE OF THE MAILBOX AND/OR NEWSPAPER BOX RELOCATION. ONCE THE NEW MAILBOX POST IS PLACED IN THE FINAL POSITION, THE EXISTING MAILBOX, NEWSPAPER BOX(S), AND ANY ADDRESS NUMBERS SHALL BE ATTACHED TO THE NEW POST. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNTPRICE FOR Post, Mailbox. THE REPLACEMENT OF ANY MAIL BOX, NEWSPAPER BOX(S), AND/OR ADDRESS NUMBERS DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

#### TOPSOIL

TOPSOIL SURFACE SHALL BE SCREENED MATERIAL. THE PLACEMENT OF TOPSOIL SHALL BE INCLUDED IN SLOPE RESTORATION ITEMS.

#### SOIL BORINGS

THE SOIL BORING ON THE CONSTRUCTION SHEETS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY INFERS THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE FAACT LOCATION OF THE RORING.

#### MISCELLANEOUS QUANTITIES

QUANTITIES THIS SHEET

TOTAL UNIT DESCRIPTION

1 LSUM Mobilization, Max

25 Cyd Subgrade Undercutting, Type II

25 Cyd Subgrade Undercutting, Type II, Modified

100 Ft Erosion Control, Silt Fence

1 LSUM Project Cleanup

4 Ea Pedestrian Type II Barricade, Temp

1 LSUM Minor Traf Devices

15 Ea Sprinkler Head, Salv, and Reset

OHM

ARCHITECTS ENGINEERS PLANNERS

34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-642

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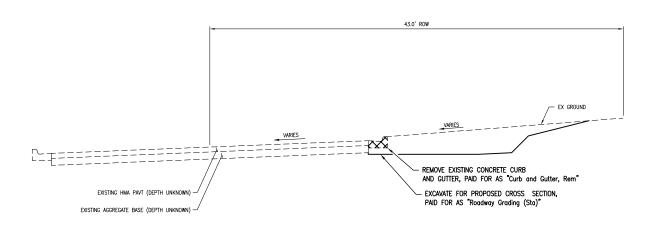
VERT DATIM REVISIONS.	_	1	1	1	1	1	<u>!</u>	

### PROJUMBER ENG PROJUMBER COUNTY SOUTH CHARACTER COUNTY SOUTH CHARACTER COUNTY ROAD COMMISSION

OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING

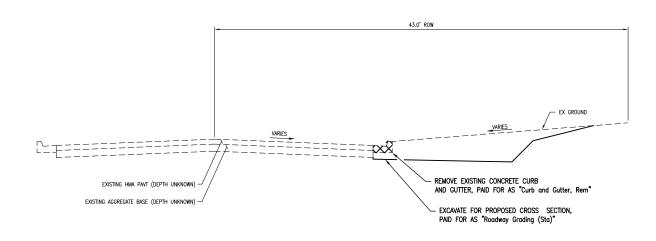
GENERAL NOTES

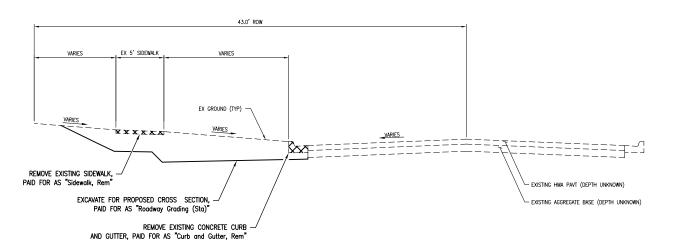
#### UTILITY PATTERN WATER & SEWER UTILITY SYMBOLS MISCELLANEOUS UTILITY SYMBOLS REMOVAL LEGEND MISCELLANEOUS SYMBOLS **EXISTING EXISTING EXISTING EXISTING** SIDEWALK REMOVAL ELECTRICAL \* OST STORM MANHOLE GUY WIRE 34000 Plymouth Road Livonia, MI 48150 P (734) 522-6711 | F (734) 522-6427 SQUARE CATCH BASIN SIGN $\varnothing_{\mathsf{GP}}$ GUY POLF 6" (COMPANY) GAS HMA SURFACE REMOVAL GAS\OIL ROUND CATCH BASIN $\varnothing_{\mathsf{U}}$ UTILITY POLE FLOW DIRECTION OHM-ADVISORS COM \_\_\_\_\_\_\_ (COMPANY) CABLE/TEL \_\_\_\_\_ . \_\_\_\_ CABLE/TELEPHONE \* PAVEMENT REMOVAL == CULVERT UTILITY POLE W/LIGHT STUMP \$ \_\_\_\_\_FIBER\_OPTIC \* CULVERT W/O END SECTION LIGHT/DECOR LAMP POLE COLD MILLING HMA SURFACE \$ CULVERT W/END SECTION FLOOD LIGHT CONIFEROUS TREE CL 1 1" TO 5" CL 2 6" TO 17" HMA BASE CRUSHING AND SHAPING SANITARY MANHOLF O GAS VALVE DECIDUOUS TREE 6 (CO) CLEAN OUT CONIFEROUS SHRUB GAS VENT EXCAVATION, EARTH \_\_ <u>12" STM\_\_ \_\_ \_\_ \_\_ STORM</u> G GATE VALVE & WELL GAS METER DECIDUOUS SHRUB GATE VALVE & BOX ⟨Ĝ⟩ SOIL BORING GAS RISER -XXXXXXXX CURB AND GUTTER, REM **PROPOSED** W WATER STOP BOX $\phi$ SECTION CORNER TRAFFIC SIGNAL $\otimes$ TREE, REM STORM/SANITARY/WATER $\nabla$ FIRE HYDRANT Ф-MONUMENT PEDESTRIAN RISER PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS S-XXXXXX SALVAGE MP METER PIT E IRON ROD/PIPE TRANSFORMER PAD RESPECTIVE EXISTING UTILITY LINESTYLE 0 WATER METER Οu B-XXXXXX BULKHEAD PRIVATE UTILITY MANHOLE \*OH = OVERHEAD , UG = UNDERGROUND R)≪ R SPRINKLER HEAD **®**ВМ# BENCHMARK RAILROAD CROSSING A-XXXXXX ABANDON ROW PATTERN IRRIGATION VALVE ∆ TP# TRAVERSE POINT Ε FLECTRIC METER REMOVE R-XXXXXX MAIL/NEWSPAPER BOX PB PHONE BOOTH **EXISTING PROPOSED** ADJUST ADJ-XXXXXX TS FLAG POLE TRAFFIC SIGNAL CONTROLLER 11111 STORM MANHOLF $\bigcirc$ HAND HOLE REL-XXXXXXX RELOCATE INLET/CATCH BASIN Ê USED WITH UNDERGROUND GAS & HAZARDOUS OR FLAMMABLE MATERIAL ELECTRIC RISER ELECTRICAL LINES REC-XXXXXX RECONSTRUCT CULVERT END SECTION $\langle \hat{\mathbf{J}} \rangle$ PROPERTY/PARCEL TELEPHONE RISER USED WITH TELEPHONE & CAUTION — CRITICAL UNDERGROUND UTILITY FIBER OPTIC LINES R B/O-XXXXXX REMOVE BY OTHERS (Ĉ) SANITARY MANHOLE CABLE TV RISER **PROPOSED** W GATE VALVE & WELL MONITORING WELL ADJ B/O-XXXXXX ADJUST BY OTHERS **PROPOSED** П GATE VALVE & BOX UNDERGROUND MARKER REL B/O-XXXXXX RELOCATE BY OTHERS TAPPING SLEEVE VALVE & WELL 1,1,H,1,H,1 SIGN TAPPING SLEEVE VALVE & BOX TOPO PATTERN IF NECESSARY FOR CLARITY FLOW DIRECTION FIRE HYDRANT **EXISTING** STRUCTURE NUMBER WM EX STM PR STM S SALVAGE ® BUI KHEAD WASHTENAW COUNTY ROAD COMMISSION OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING ADA SIDEWALK RAMP A ABANDON 0 CLEARING SOIL EROSION CONTROL ITEM R REMOVE (REL) RELOCATE CENTERLINE OF DITCH (REC) RECONSTRUCT REL B/O RELOCATE BY OTHERS (ADJ B/O) ADJUST BY OTHERS WFTLAND/FDGF OF WATER **REAL ESTATE SYMBOLS PROPOSED** \_\_\_\_\_ CONTIGUOUS PROPERTY SYMBOL CENTERLINE OF DITCH PARCEL NUMBER BOX NO ROW IMPACTS — SILT FENCE



### EXISTING SOUTHBOUND OAK VALLEY TYPICAL-1

APPLIES: STA 1+52.47 (POB) TO 3+65





## EXISTING NORTHBOUND OAK VALLEY TYPICAL SECTION

APPLIES: STA 5+55.63 TO 8+97.40 (POE)

EXISTING SOUTHBOUND OAK VALLEY TYPICAL-2

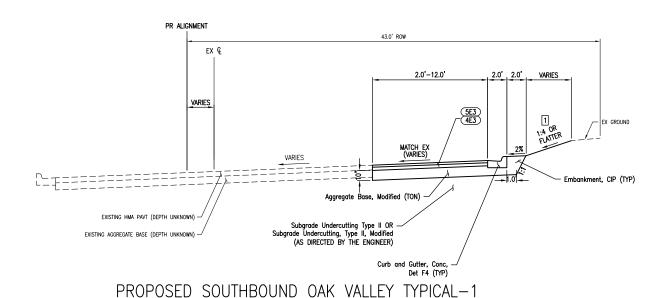
APPLIES: STA 3+65 TO 4+96.82



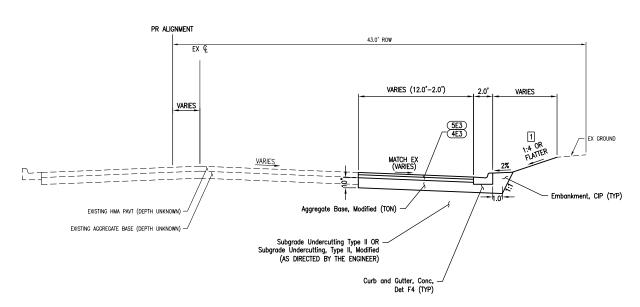
WASHTENAW COUNTY ROAD COMMISSION
OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING
TYPICAL CROSS SECTIONS

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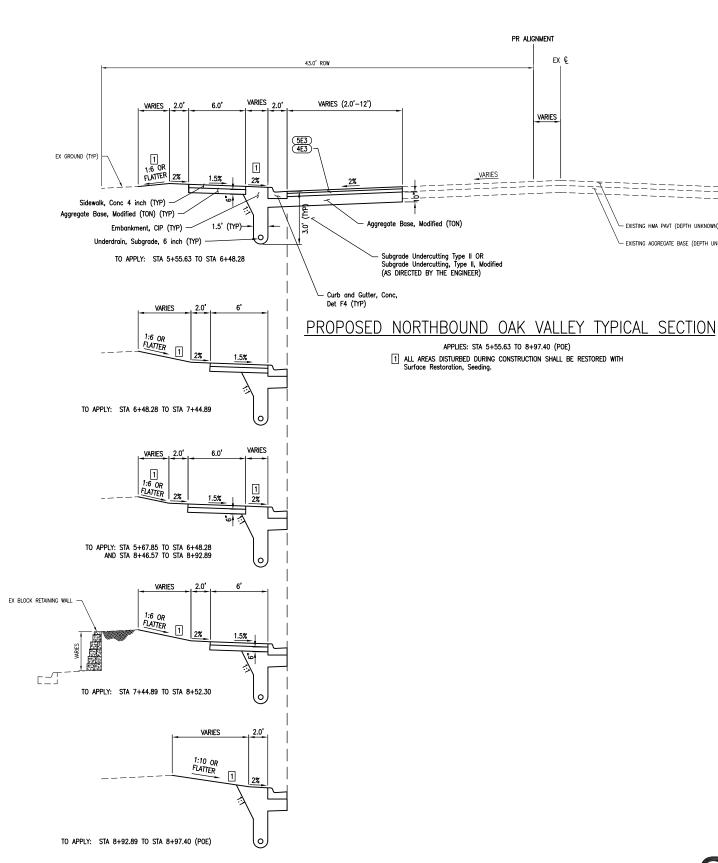
APPLIES: STA 1+52.47 (POB) TO 3+65 ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH Surface Restoration, Seeding.



### PROPOSED SOUTHBOUND OAK VALLEY TYPICAL-2

APPLIES: STA 3+65 TO 4+96.82 1 ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH

	PERMANENT HMA APPLICATION CHART					
SYMBOL	PAY ITEM	RATE (LB/SYD)	DEPTH (IN)	PERFORMANCE GRADE	REMARKS	
(5E3)	HMA, 5E3	220 LB	2.0	64-22	TOP COURSE, AWI = 260 MINIMUM	
4E3	HMA, 4E3	330 LB	3.0	64-22	LEVELING COURSE, AWI = 260 MINIMUM	
-	-	0.05 - 0.15 GAL/SYD	_	TYPE SS-1h	BOND COAT — TO BE APPLIED BETWEEN LIFTS OF NEW HMA PERMANENT (TYP)	



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PR ALIGNMENT

VARIES

APPLIES: STA 5+55.63 TO 8+97.40 (POE) ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH Surface Restoration, Seeding.

- Subgrade Undercutting Type II OR Subgrade Undercutting, Type II, Modified (AS DIRECTED BY THE ENGINEER)

EX Ç

VARIES

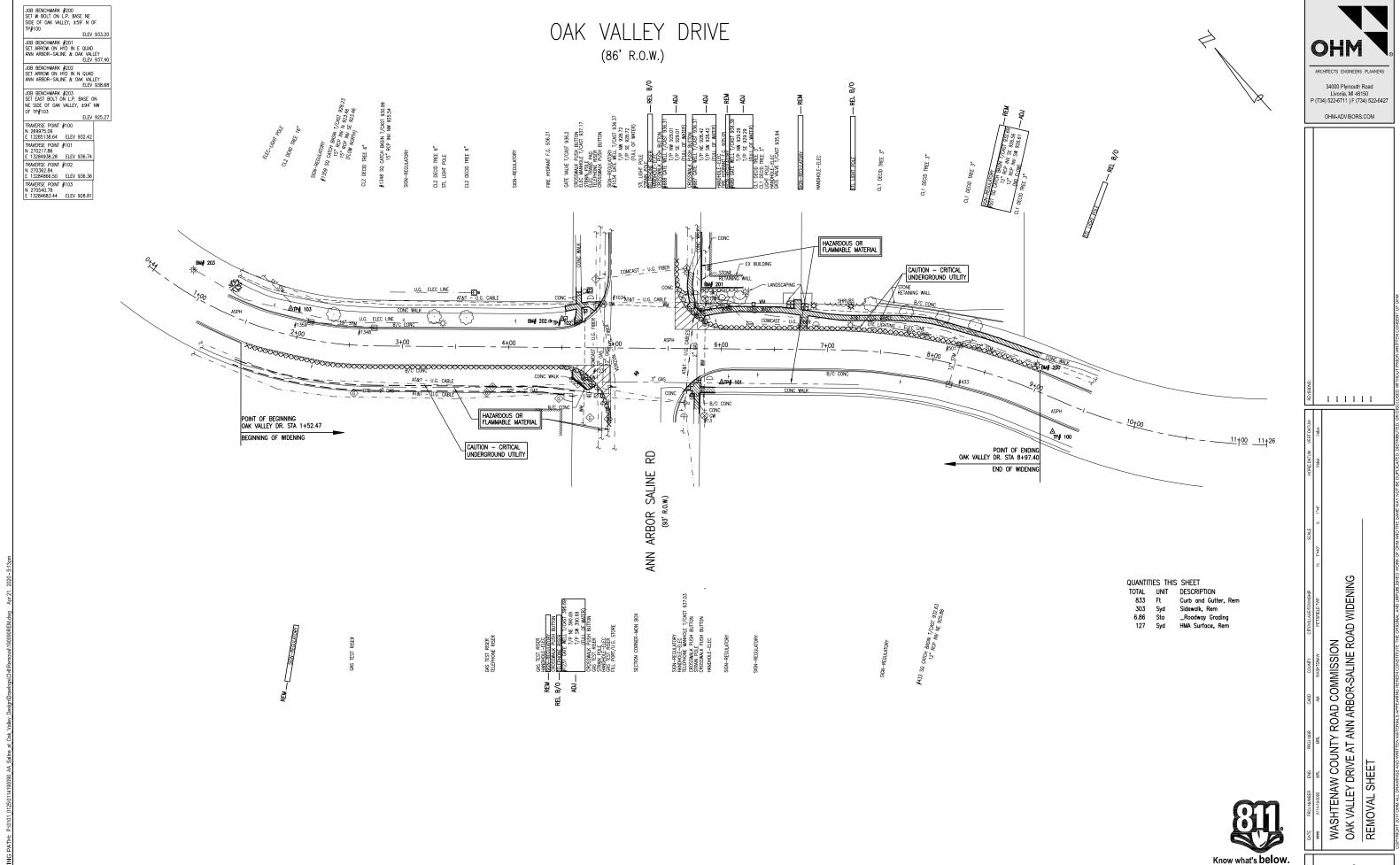
- EXISTING HMA PAVT (DEPTH UNKNOWN)

- EXISTING AGGREGATE BASE (DEPTH UNKNOWN)

11111

WASHTENAW COUNTY ROAD COMMISSION
OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING
TYPICAL CROSS SECTIONS

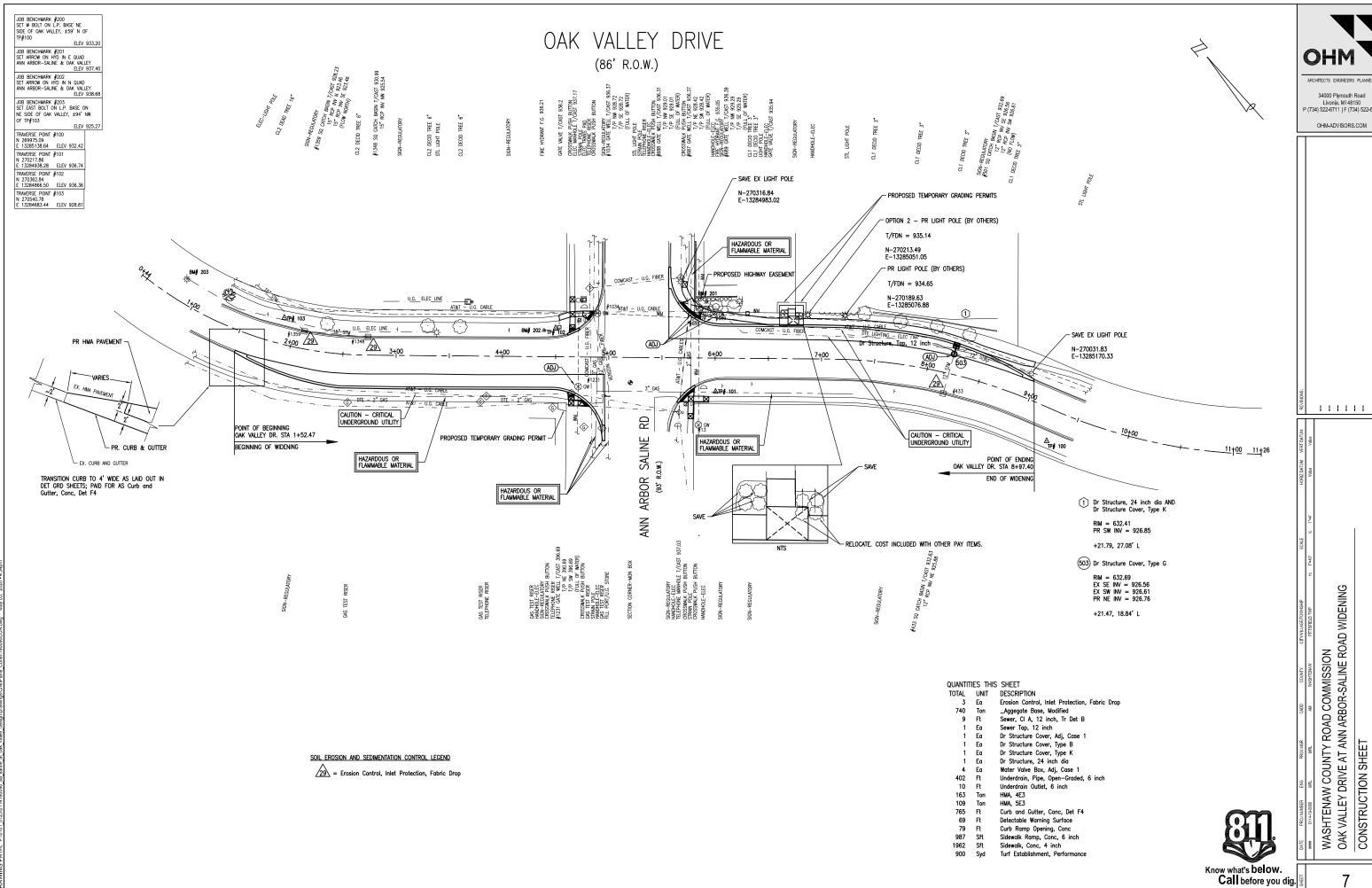
Know what's below. Call before you dig.



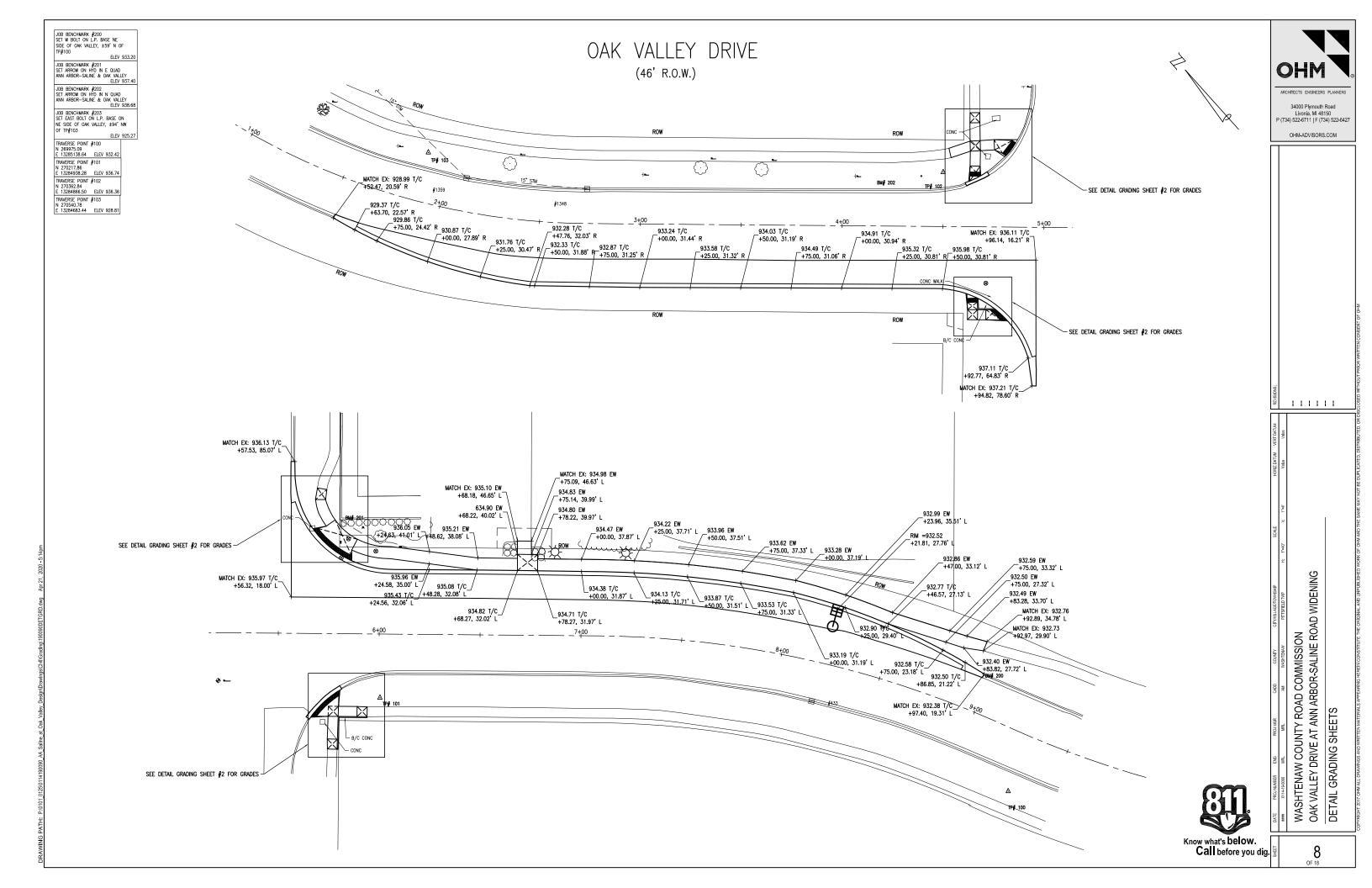
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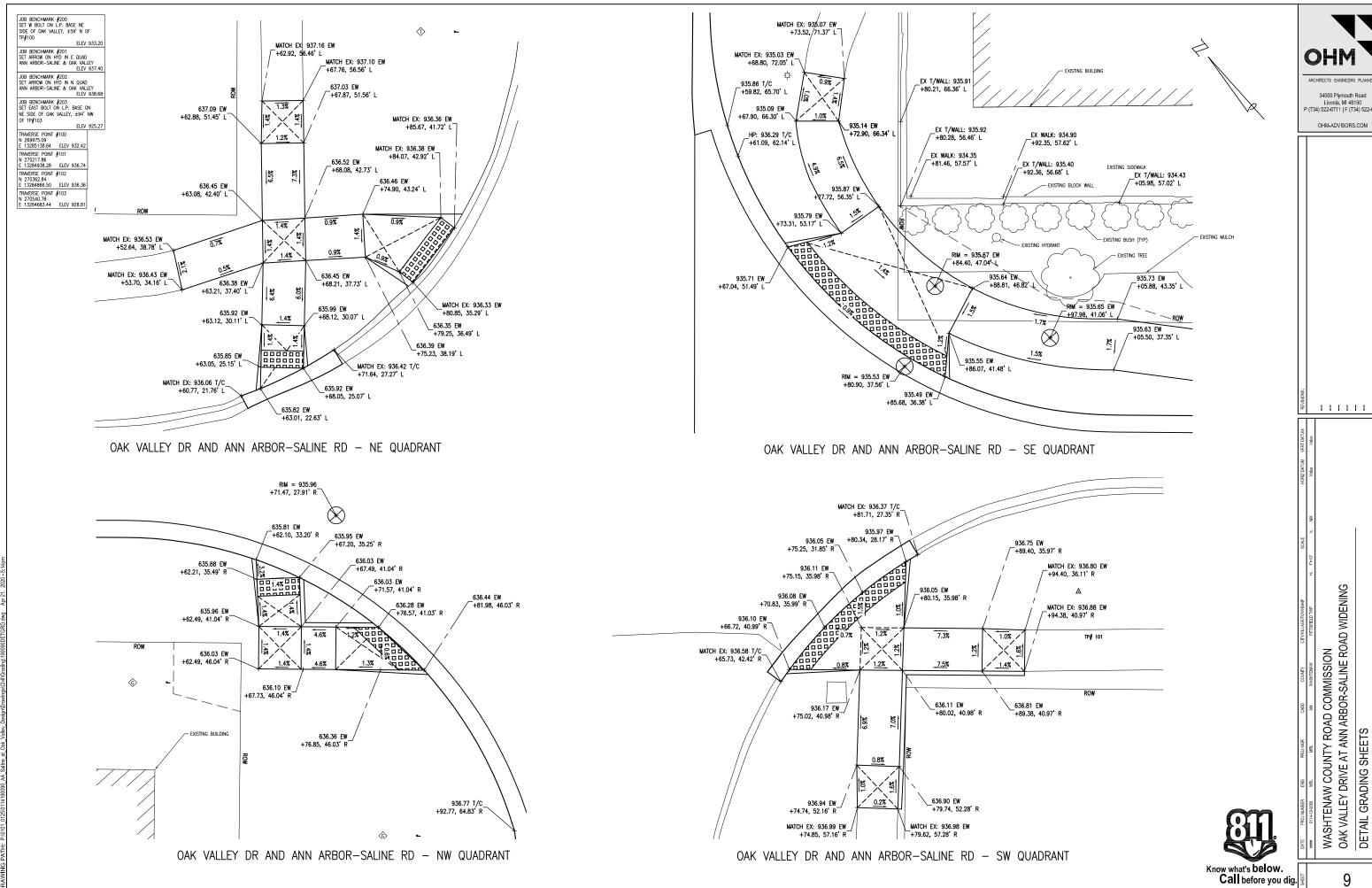
Call before you dig.

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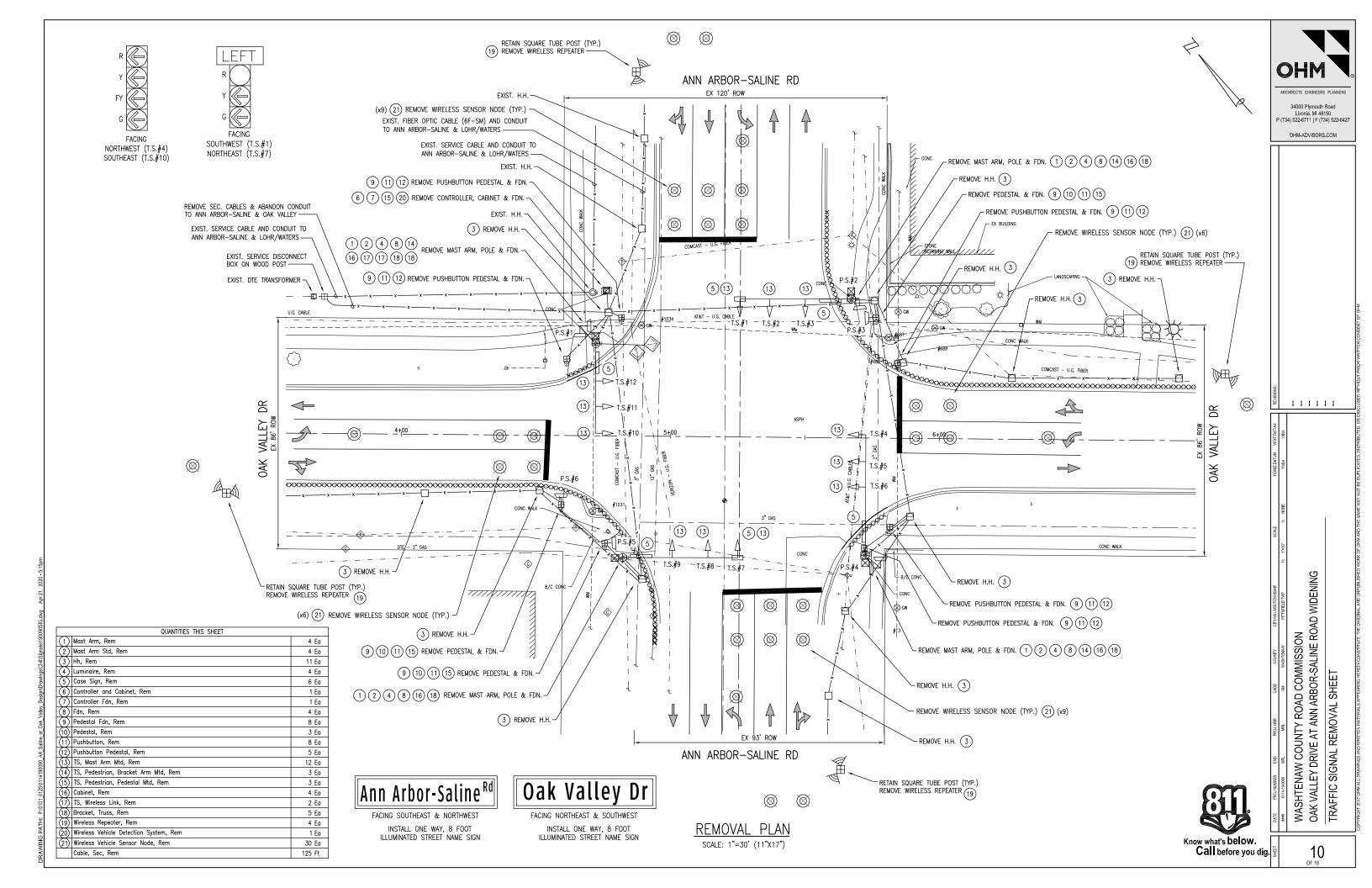


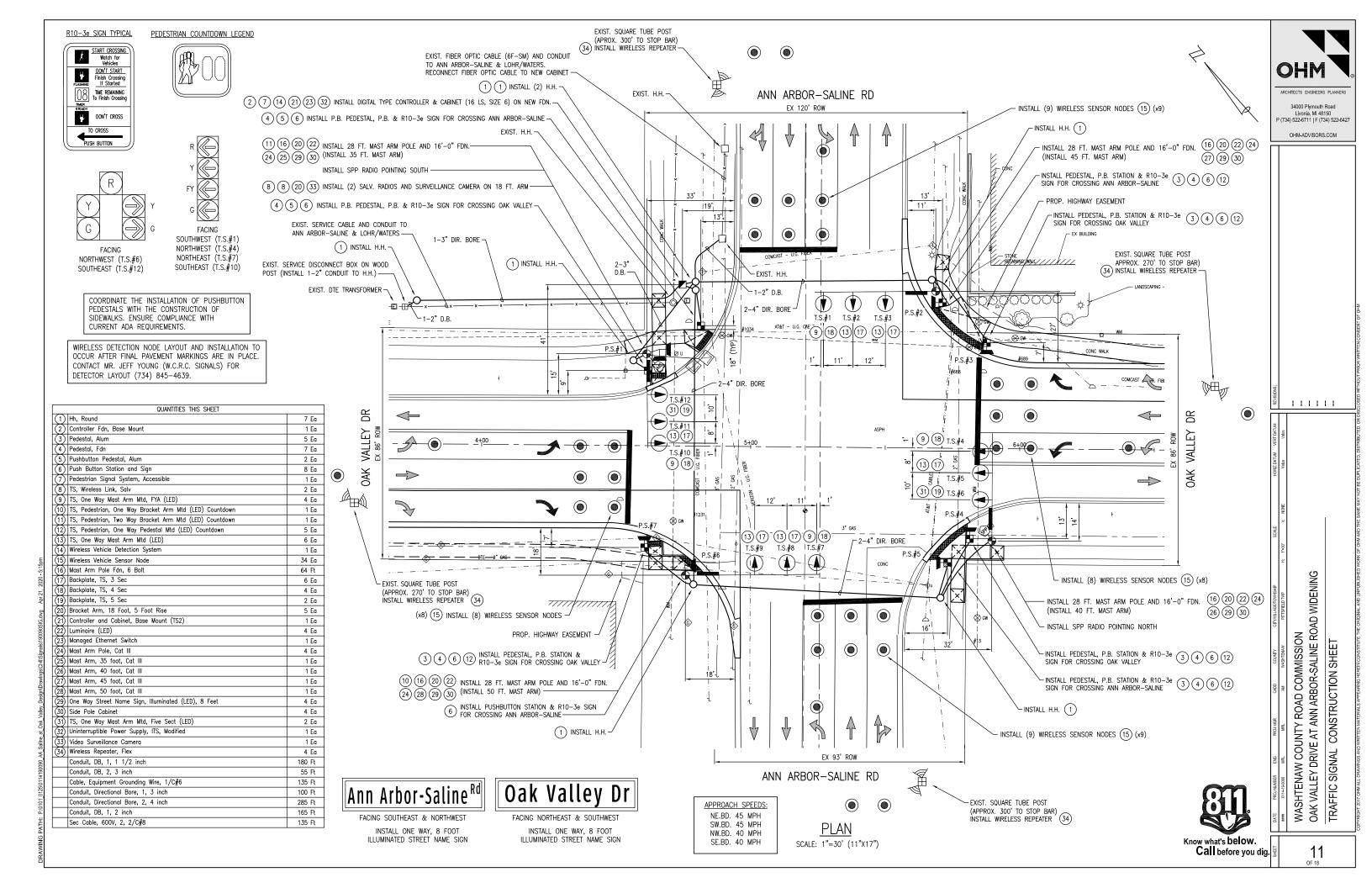
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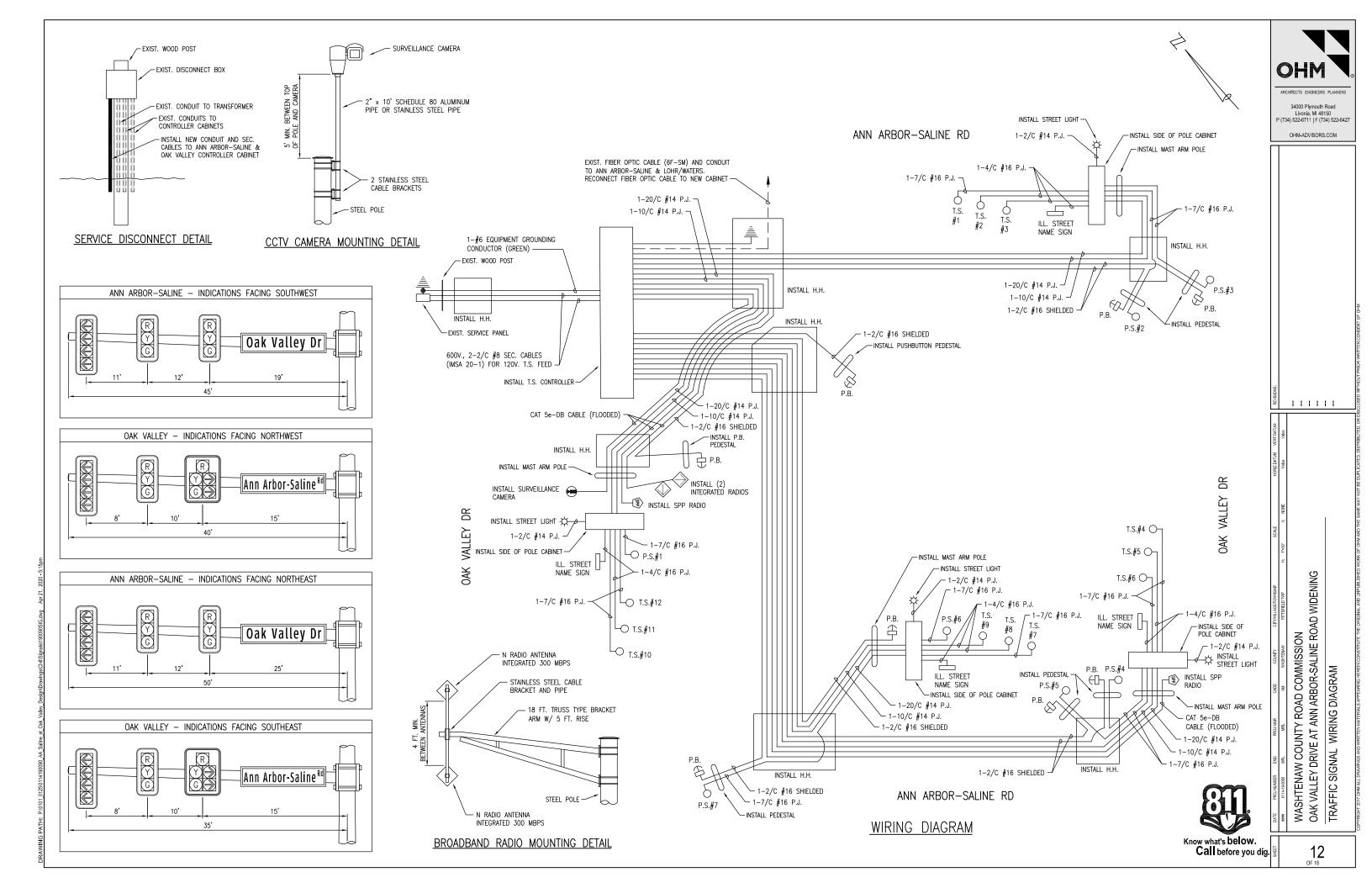


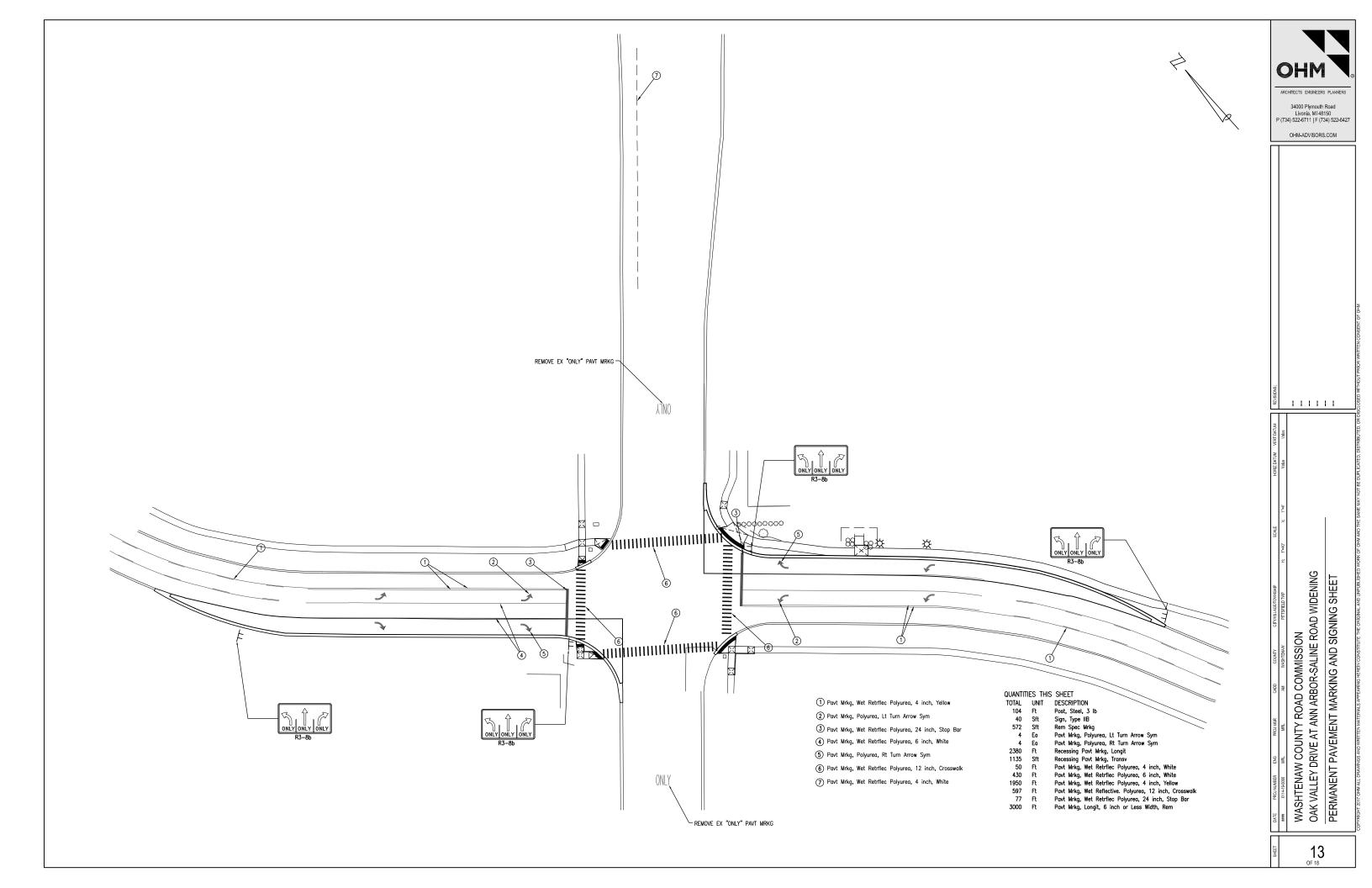


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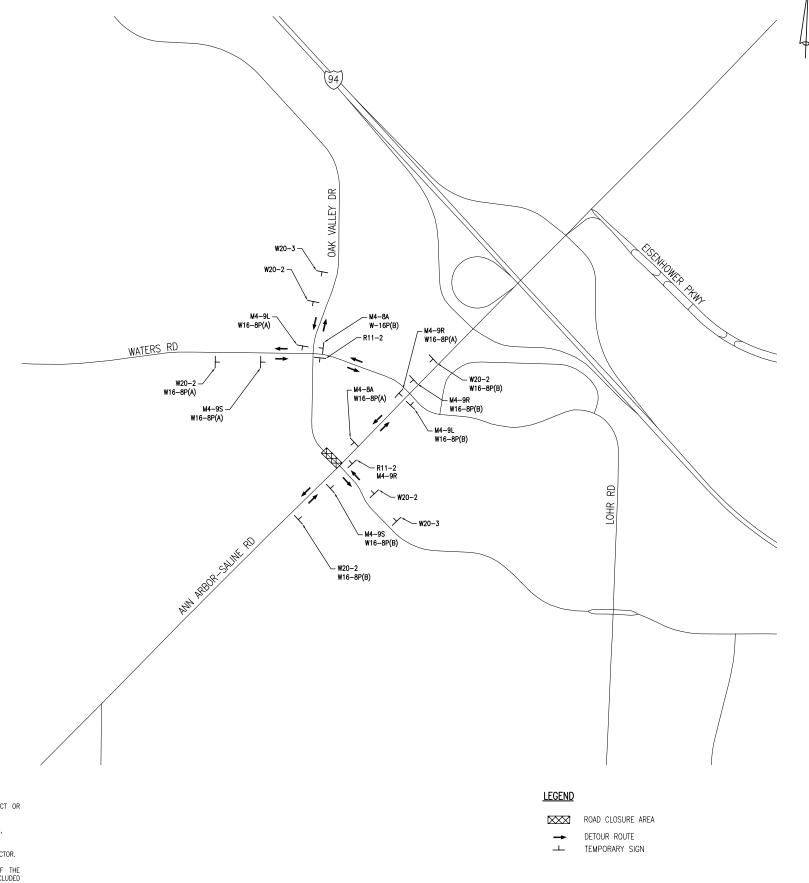


SIGNING LEGEND				
SIGN	SIGN CODE	SIZE		
DETOUR ENDS	M4-8a	24"x18"		
DETOUR	M4-9L	30"x24"		
DETOUR	M4-9R	30"x24"		
DETOUR •	M4-9S	30"x30"		
SB Oak Viy	W16-8P(A)	12"x36"		
NB Oak Viy	W16-8P(B)	12"x36"		
DETOUR	W20-2	48"x48"		
ROAD CLOSED AHEAD	W20-3	48"x48"		
ROAD CLOSED	R11-2	48"x30"		

<sup>\*\*</sup> FOR INFORMATION ONLY

#### TRAFFIC NOTES

- DISTANCES SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD BY THE CONTRACTOR AND/OR ENGINEER TO AVOID CONFLICT OR OBSTRUCTION BY EXISTING TREES, SIGNS, DRIVEWAYS ETC, PRESENT IN THE FIELD BUT NOT SHOWN ON THE PLANS.
- ALL CONSTRUCTION SIGNS SHALL CONFORM WITH THE LATEST VERSION OF THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING APPROPRIATE UPDATES.
- 3. ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS, BARRICADES, PLASTIC DRUMS AND WARNING LIGHTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. TRAFFIC CONTROL DEVICES ARE TO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT. NIGHT PATROLS OF THE CONSTRUCTION AREA AND DETOUR ROUTE SHALL BE CONDUCTED BY THE CONTRACTOR AND WILL NOT BE PAID SEPARATELY, BUT WILL BE INCLUDED IN THE UNIT PRICES BID FOR TEMPORARY TRAFFIC CONTROL ITEMS.
- 5. ALL SIGNS USED AT NIGHT SHALL BE RETRO-REFLECTIVE WITH A MATERIAL THAT HAS A SMOOTH, SEALED OUTER SURFACE.
- 6. TYPE III BARRICADES SHALL BE PLACED AT SB OAK VALLEY AT WATERS RD AND AT NB OAK VALLEY AT AA-SALINE RD (NOT DEPICTED).
- 7. SPACE SIGNS SO AS TO NOT OBSTRUCT SIGNS DEPICTED IN STAGING PLAN.



OHM ©

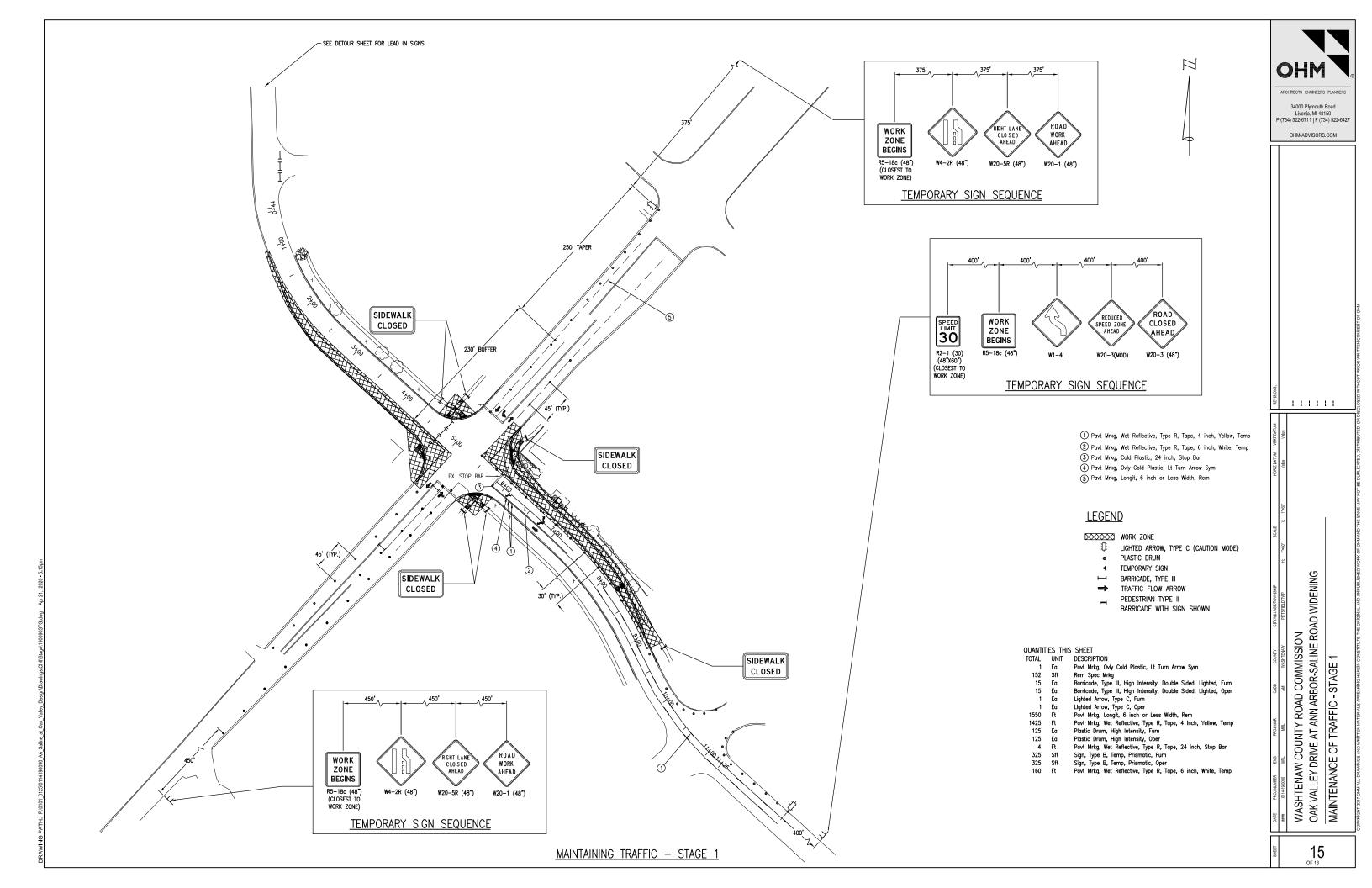
ARCHITECTS ENGINEERS PLANNERS

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Livonia, MI 48150
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 $\bowtie$ 

WASHTENAW COUNTY ROAD COMMISSION
OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING
DETOUR SHEET







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11111

EX 43' ROW EX 43' ROW WORK ZONE (VARIES) — EX GROUND (TYP) 4' BUFFER 12' PROP LANE TEMP 11' THRU LANE TEMP 10' L TURN LANE EX HMA PAVT

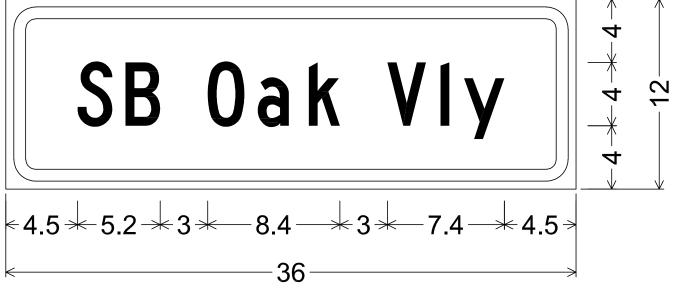
NORTHBOUND OAK VALLEY TYPICAL SECTION APPLIES: LOOKING UP STATION (SOUTH EAST)

WASHTENAW COUNTY ROAD COMMISSION
OAK VALLEY DRIVE AT ANN ARBOR-SALINE ROAD WIDENING
STAGING TYPICAL SECTION 16 OF 18

Know what's below.







Identifier: W16-8p(A)[];

1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange;



Identifier: W16-8p(B)[];

1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange;

11111

