

2018 STREET AND UTILITY IMPROVEMENTS SIGGELKOW ROAD

Village of McFarland, Wisconsin

BY	DATE	REVISIONS	SHEET
T.J.T.	1-26-18	LABELING	3 & 6-10

2018 STREET AND UTILITY IMPROVEMENTS
SIGGELKOW ROAD
Village of McFarland, Wisconsin

PROJECT NO.: MC 118
DRAWING FILE: SIGGELKOW.DWG
DATE: 1-25-18
DRAWN BY: M.J.M.
CHECKED BY: T.J.T.
REV. DATE: 1-26-18

MEMBER
ONE CALL SYSTEMS INTERNATIONAL

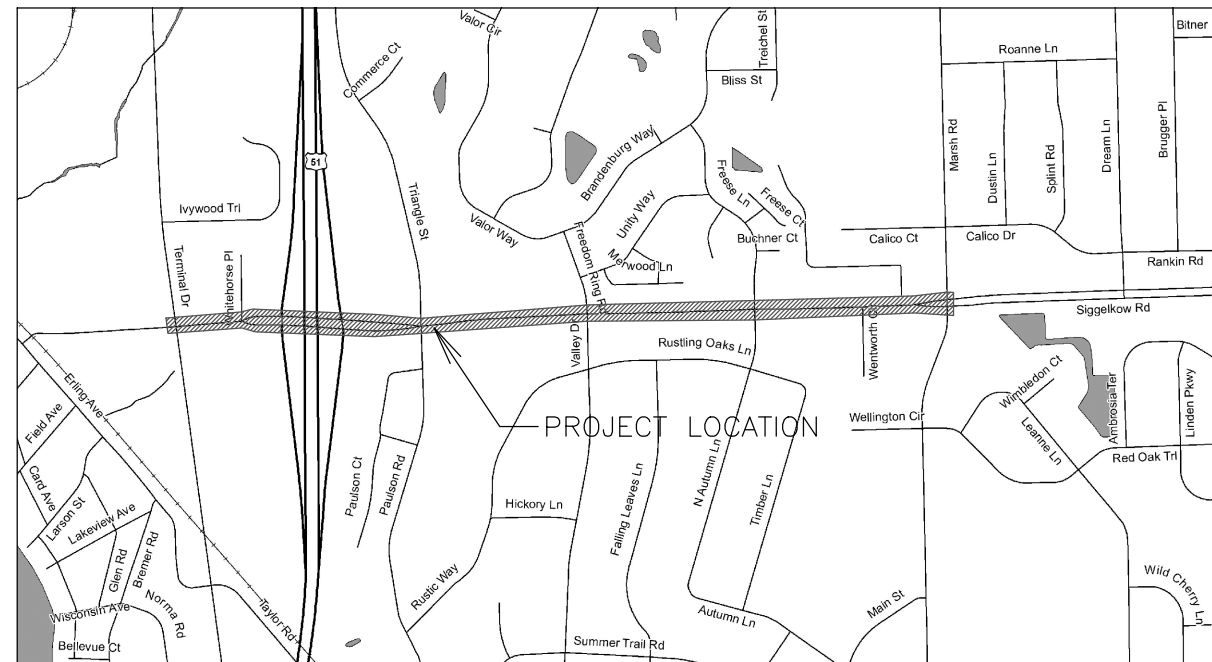
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.



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LEGEND

UNDERGROUND TELE. — UT — UT — UT — UT —
 UNDERGROUND CATV. — CBL — CBL — CBL — CBL —
 UNDERGROUND ELEC. — UE — UE — UE — UE — UE —
 OVERHEAD — OH — OH — OH — OH —
 EXISTING GAS — G — G — G — G — G —
 PROPERTY LINE — — — — —
 EXISTING WATER MAIN — — — — —
 EXISTING SANITARY SEWER — — — — —
 EXISTING STORM SEWER — x — x — x — x — x —
 EXISTING FENCE LINE — — — — —
 SAWCUT — — — — —
 NEW STORM SEWER — — — — —
 NEW WATER MAIN — — — — —
 NEW SANITARY SEWER — — — — —

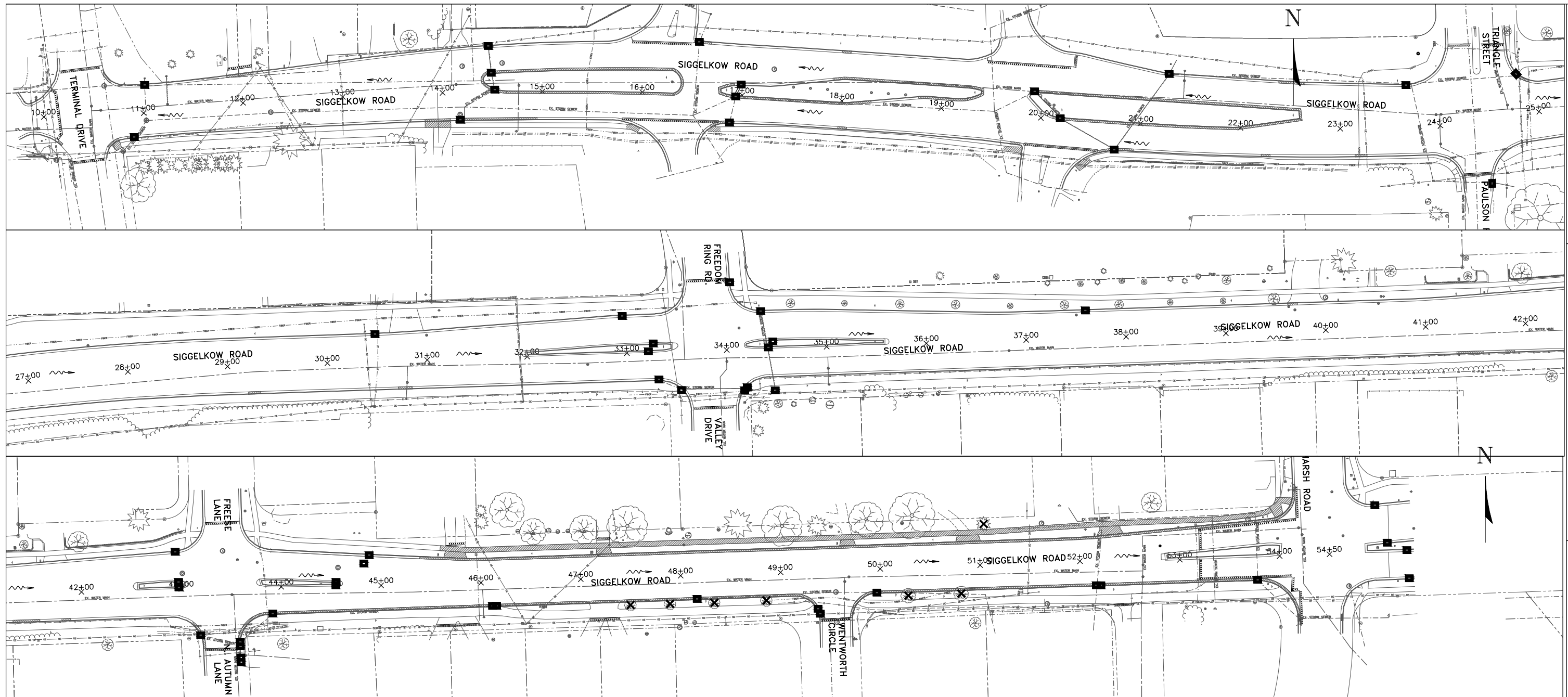
NEW ITEMS:

WATER VALVE	CURB STOP	HYDRANT	MANHOLE	CURB INLET	ENDWALL	GAS WARNING

EXISTING ITEMS:

FLAG POLE	MAILBOX	POWER POLE	LIGHT POLE	LAMP POST	PULL BOX
WATER VALVE	CURB STOP	HYDRANT	WELL	MONITORING WELL	TRACER WIRE
SANITARY MANHOLE	SEPTIC VENT	CLEANOUT	STORM MANHOLE	CURB INLET	CIRCULAR INLET
SQUARE INLET	ENDWALL	STUMP	DECID. TREE (RELATIVE SIZE SHOWN)	EVERGREEN	SHRUB OR HEDGE
CATV. PED.	TELE. PED.	ELEC. PED.	GAS VALVE	STREET SIGN	IRON PIPE
					IRON ROD

NOTES: 1.) EXISTING FEATURES AND LABELS ARE SHOWN WITH SCREENED, LIGHTER LINES.
 2.) NEW CONCRETE IS SHOWN SHADED IN PLAN VIEWS
 3.) CONCRETE REMOVALS ARE SHOWN BY CROSS-HATCHING



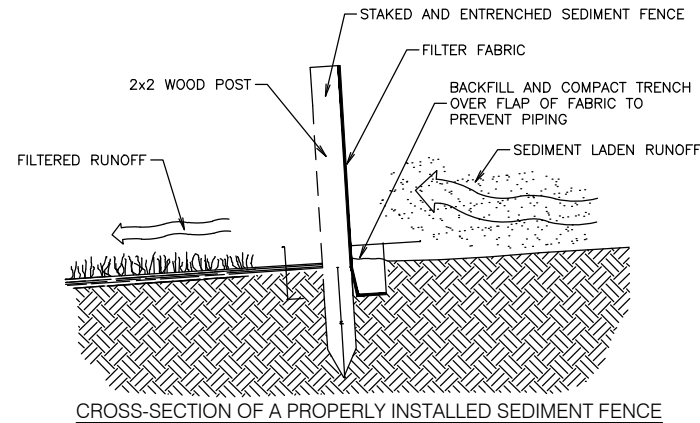
EROSION CONTROL NOTES:

- LOCATIONS MARKED WITH [Symbol] TO RECEIVE INLET FILTER PROTECTION DURING CONSTRUCTION. ALL NEW STREET INLETS MUST ALSO RECEIVE INLET FILTER PROTECTION. IF NO INLET IS AT THE MARKED LOCATION, CONSTRUCT A STONE CHECK DAM IN GUTTER LINE.
- SURFACE FLOW DIRECTION IS INDICATED WITH [Symbol]
- SILT FENCE INSTALLATION IS INDICATED WITH [Symbol]
- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
- REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
- INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
- INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR

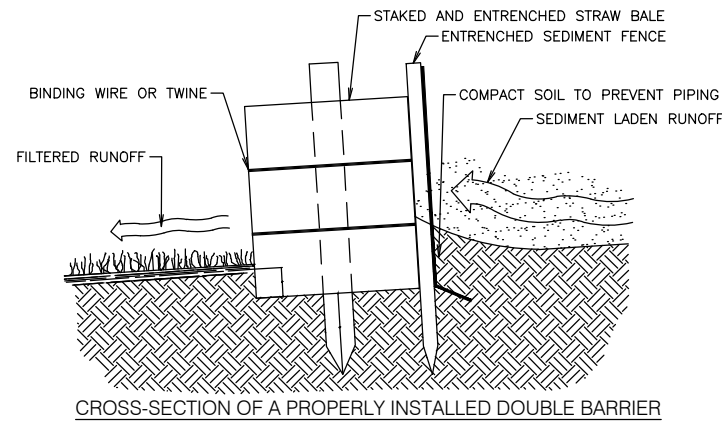
IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.

- STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
- NOTIFY THE OWNER IF DEWATERING IS SCHEDULED TO OCCUR IN AREAS OF SOIL AND/OR GROUNDWATER CONTAMINATION, OR IF DEWATERING WILL OCCUR FROM A HIGH CAPACITY WELL (70 GPM OR MORE). DEWATER ONLY AFTER THE APPROPRIATE WDNR DEWATERING DISCHARGE PERMIT HAS BEEN OBTAINED.
- PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. LIMIT PUMPING RATES TO EITHER (A) THE SEDIMENT BASIN/TRAP DESIGN DISCHARGE RATE, OR (B) THE BASIN DESIGN RELEASE RATE WITH THE CORRECTLY-FITTED HOSE AND GEOTEXTILE FILTER BAG. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061.
- INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
- REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
- INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS #1071.
- IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.

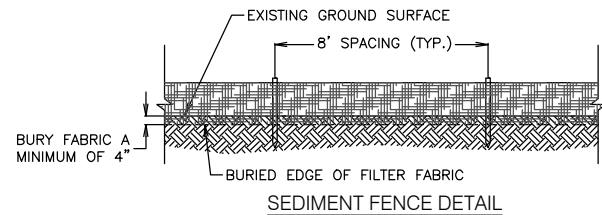
- SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE VILLAGE. SEPARATE SWEEP MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES #1068.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- COORDINATE WITH THE OWNER TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
- FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I, II OR III TYPE A EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
- FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS I, II, OR III TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, EROSION CONTROL MATTING, SILT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.), OR AS DIRECTED BY THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE WDNR REMEDIATION AND WASTE MANAGEMENT REQUIREMENTS FOR HANDLING AND DISPOSING OF CONTAMINATED MATERIALS. SITE-SPECIFIC INFORMATION FOR AREAS WITH KNOWN OR SUSPECTED SOIL AND/OR GROUNDWATER CONTAMINATION CAN BE FOUND ON WDNR'S BUREAU OF REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM (BRRTS) PUBLIC DATABASE AT: <http://dnr.wi.gov/botw/>



CROSS-SECTION OF A PROPERLY INSTALLED SEDIMENT FENCE

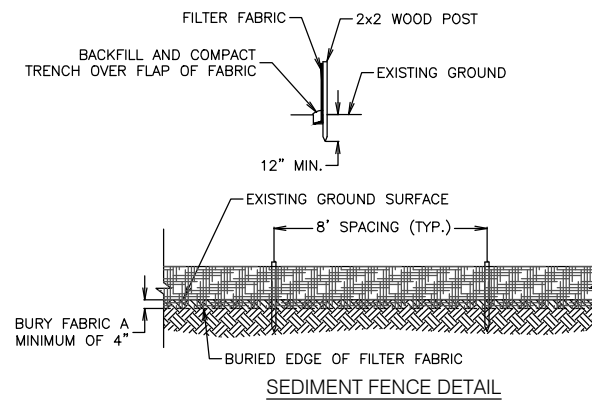


CROSS-SECTION OF A PROPERLY INSTALLED DOUBLE BARRIER



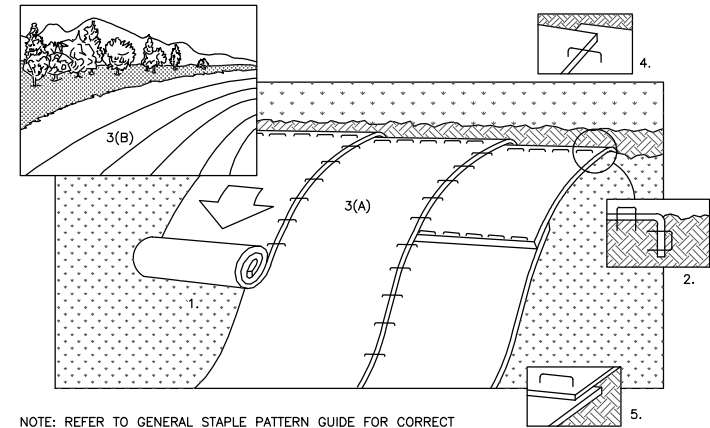
SEDIMENT FENCE DETAIL

EROSION CONTROL DETAILS
DETAIL NO. 02270-A



SEDIMENT FENCE DETAIL

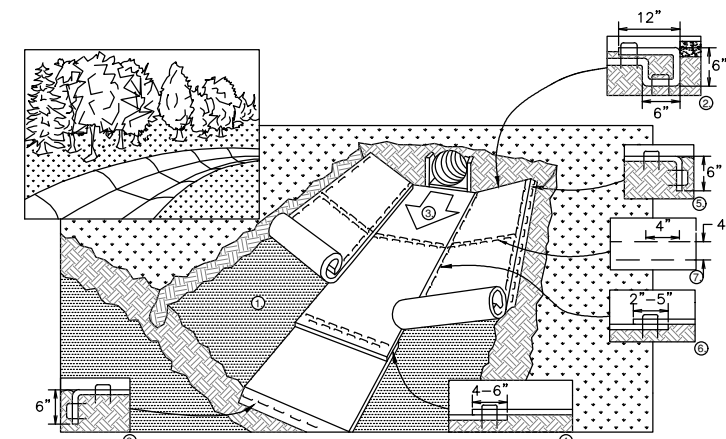
DOUBLE EROSION CONTROL DETAILS
DETAIL NO. 02270-B



NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

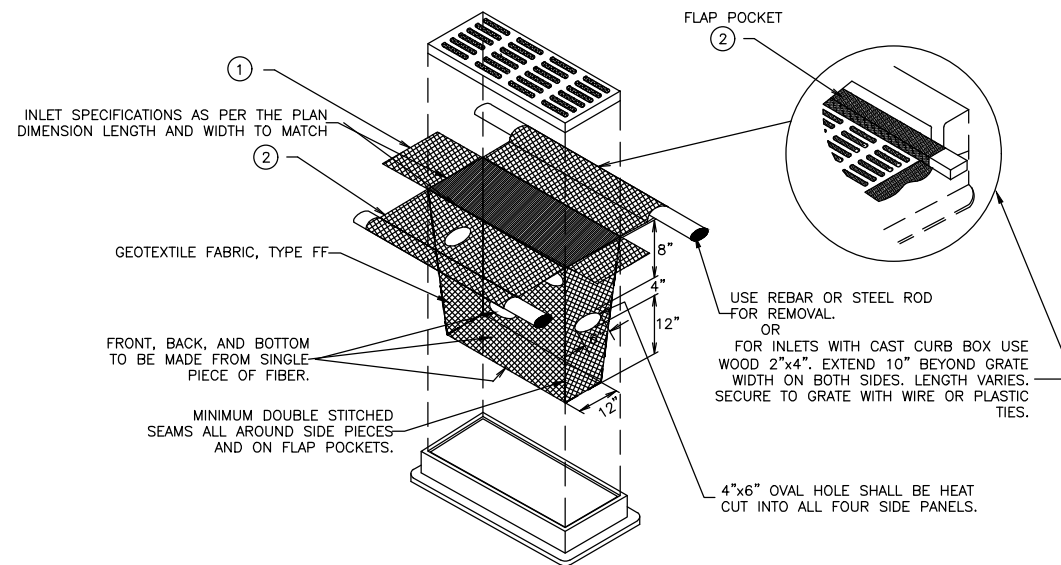
EROSION CONTROL MAT - SLOPE INSTALLATION
DETAIL 02270-H



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPE MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 4" AND STAPLED.
7. A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

EROSION CONTROL MAT - CHANNEL INSTALLATION
DETAIL 02270-G



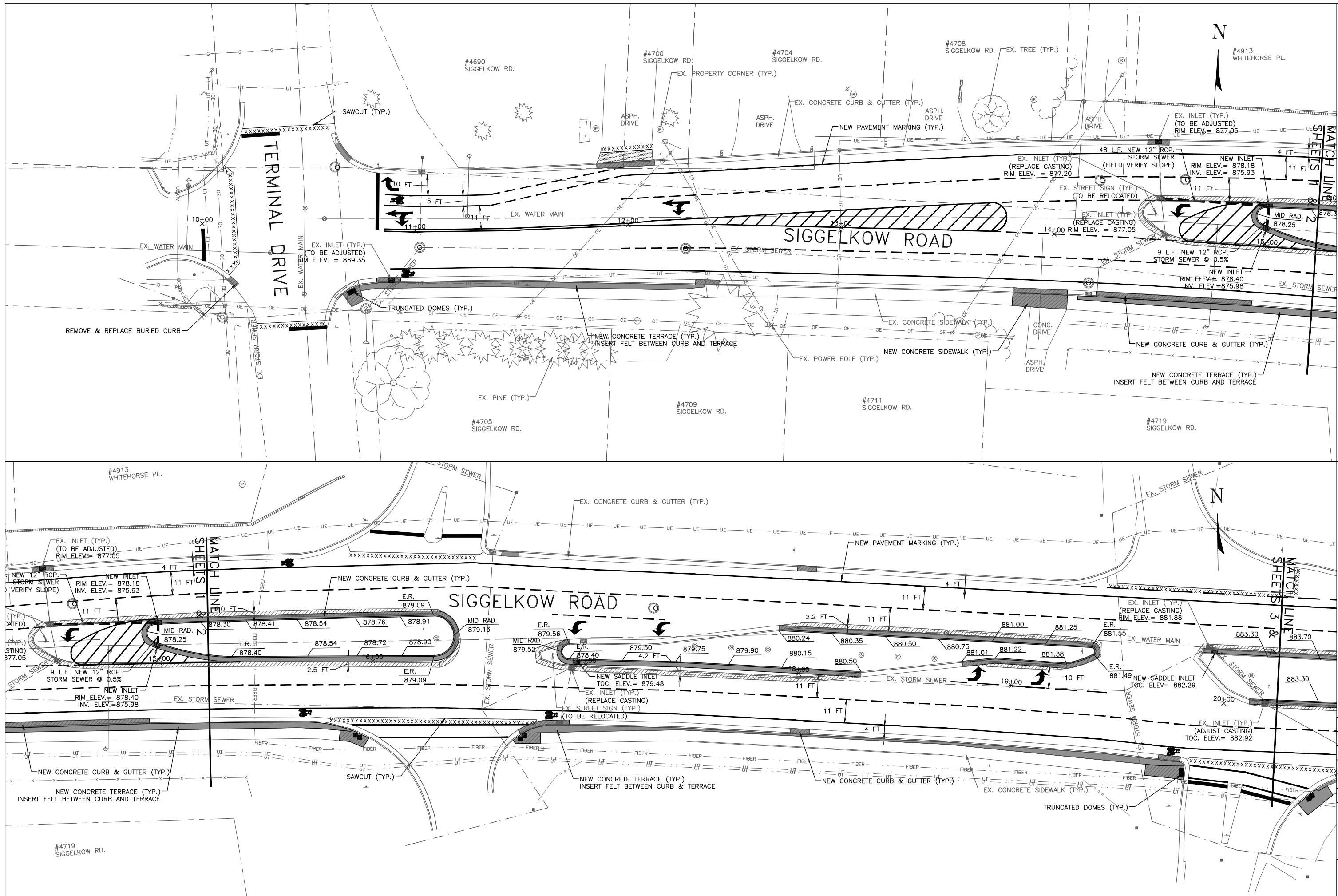
GENERAL NOTES:

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

INSTALLATION NOTES:

1. DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 3 FT. MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
2. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
3. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION, TYPE D
(WITH CURB BOX)
DETAIL NO. 02270-C3

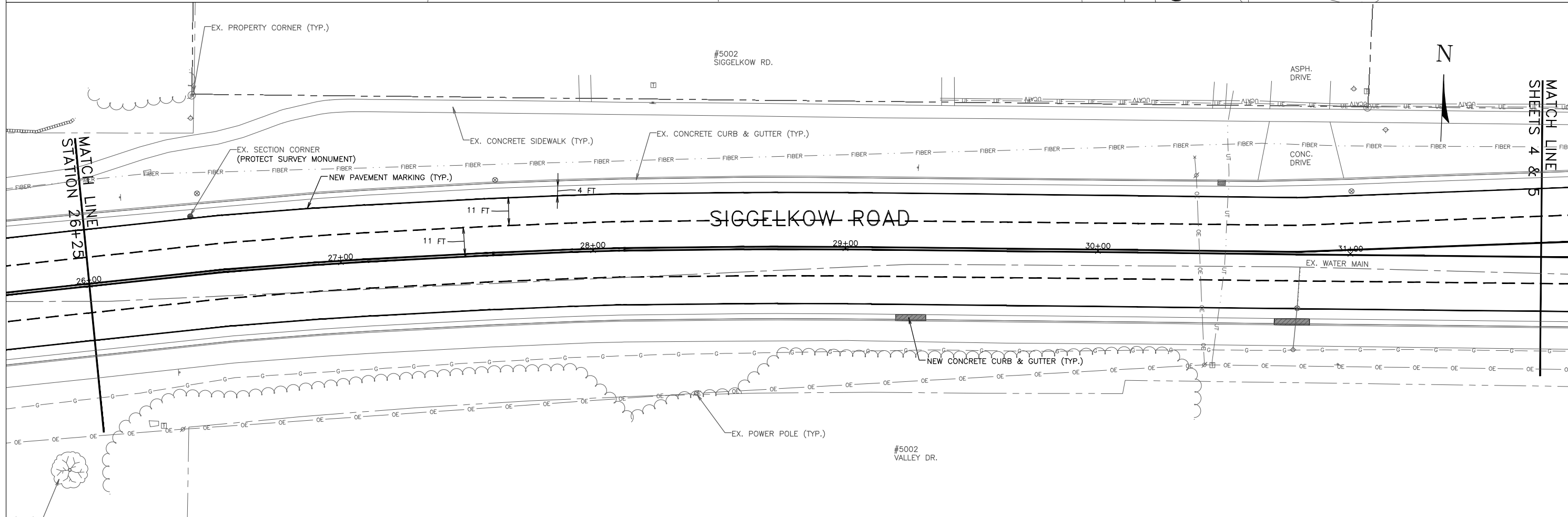
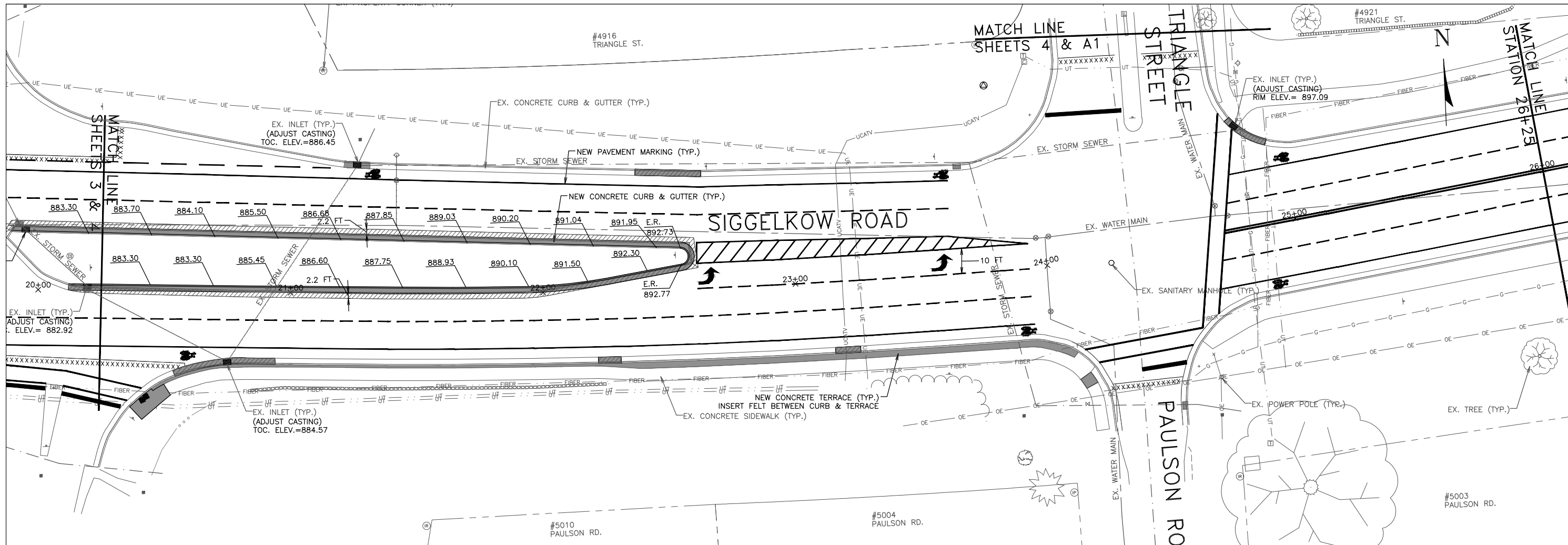


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 www.tcengineers.net

PLAN
 SIGGELKOW ROAD
 TERMINAL DRIVE TO STATION 20+25

2018 STREET AND UTILITY IMPROVEMENTS
 Siggelkow Road
 Village of McFarland, Wisconsin

PROJECT NO.: MC 118
 DRAWING FILE: SIGGELKOW.DWG
 DRAWN BY: M.J.M.
 CHECKED BY: T.J.T.
 DATE: 1-25-18
 REVISIONS: 1-26-18
 SCALE: 0 5 10 20
 SHEET: 3



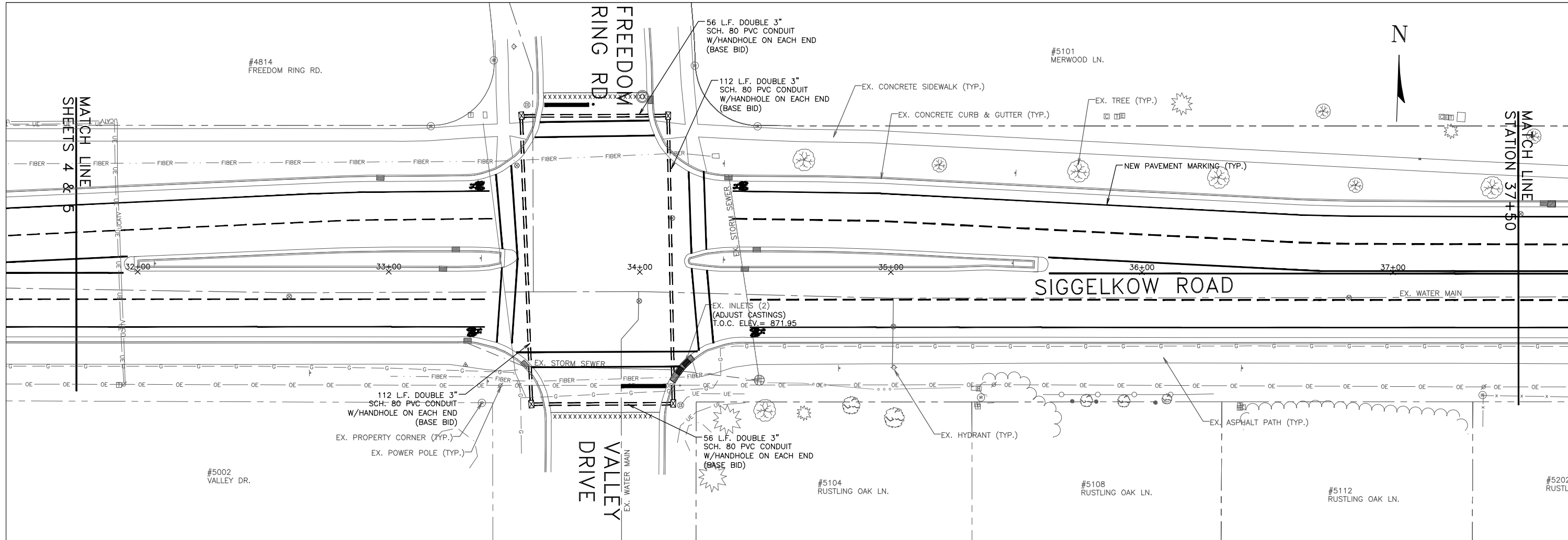
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PLAN
SIGGELKOW ROAD
STATION 20+25 TO 31+50

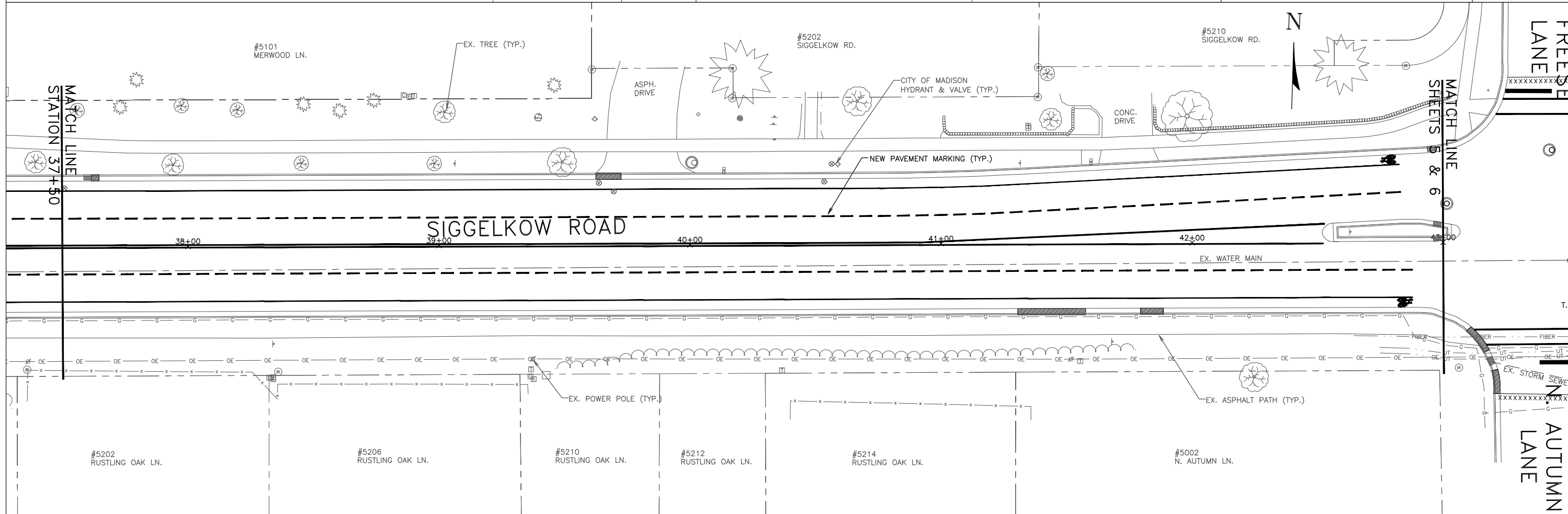
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Siggelkow Road
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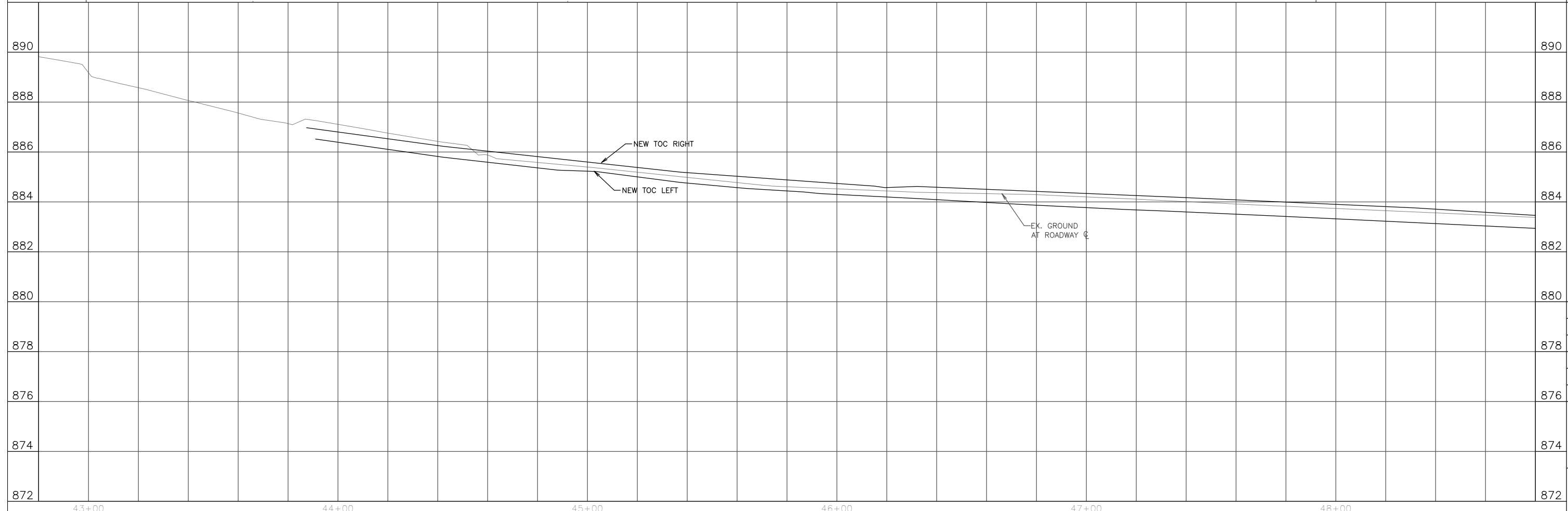
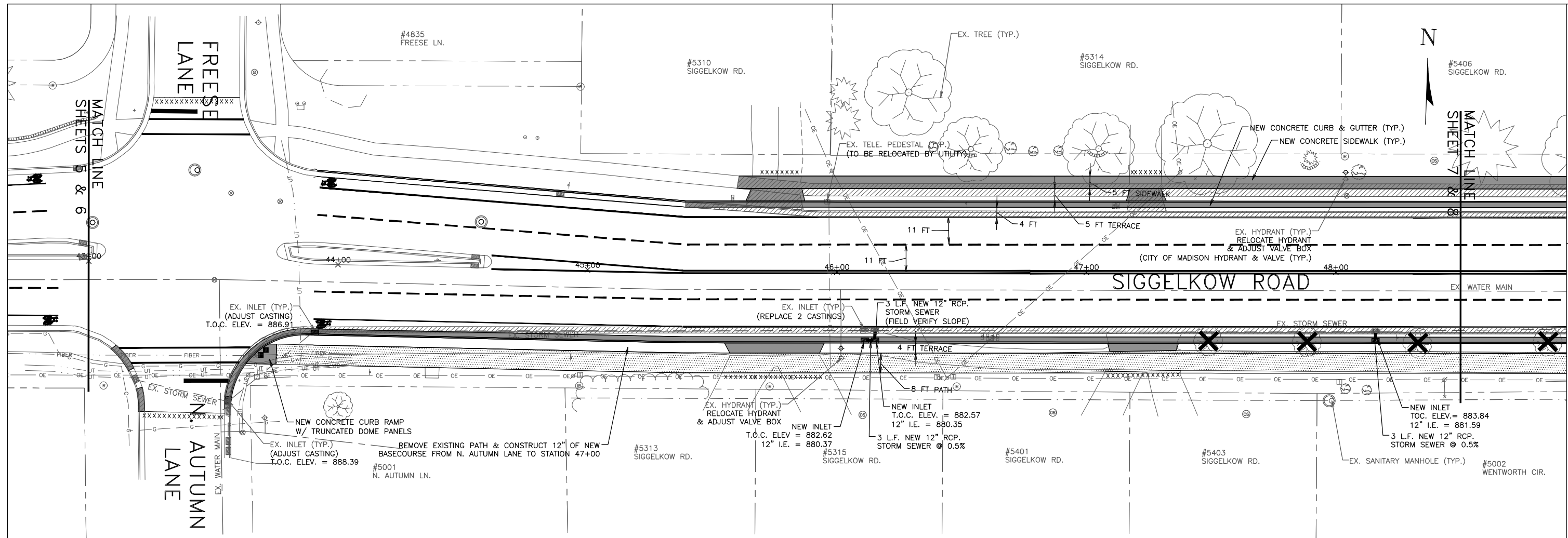
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PLAN
SIGGELKOW ROAD
 STATION 35+00 TO STATION 43+00



2018 STREET AND UTILITY IMPROVEMENTS
 Siggelkow Road
 Village of McFarland, Wisconsin

T.O.
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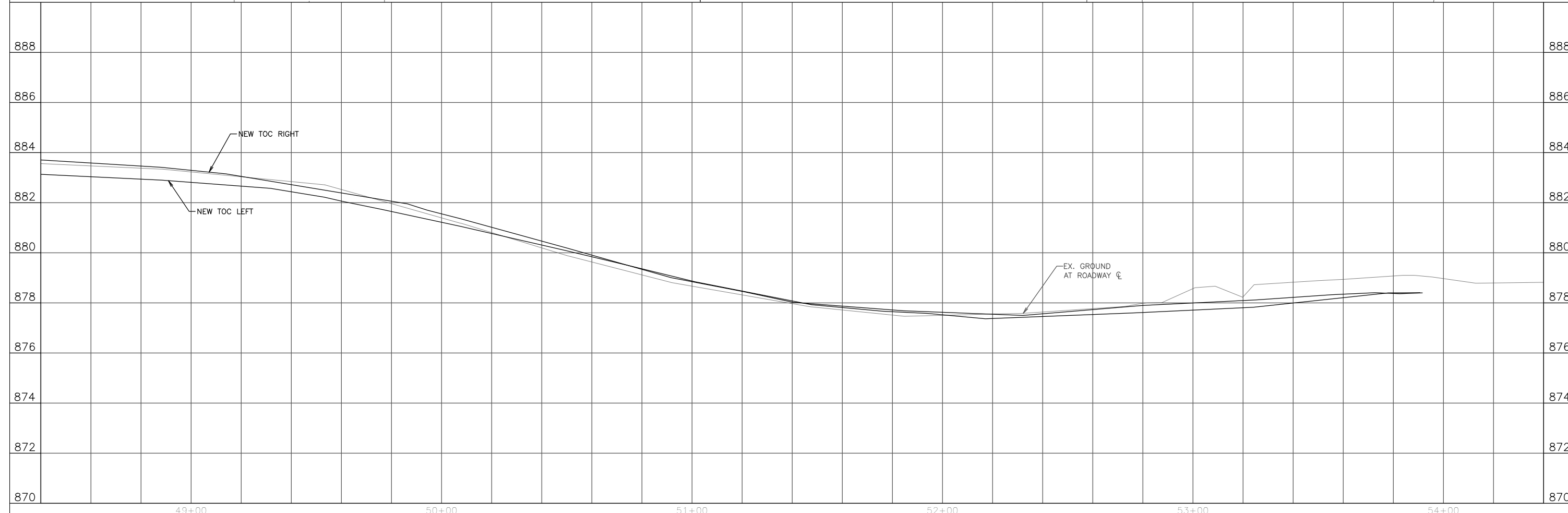
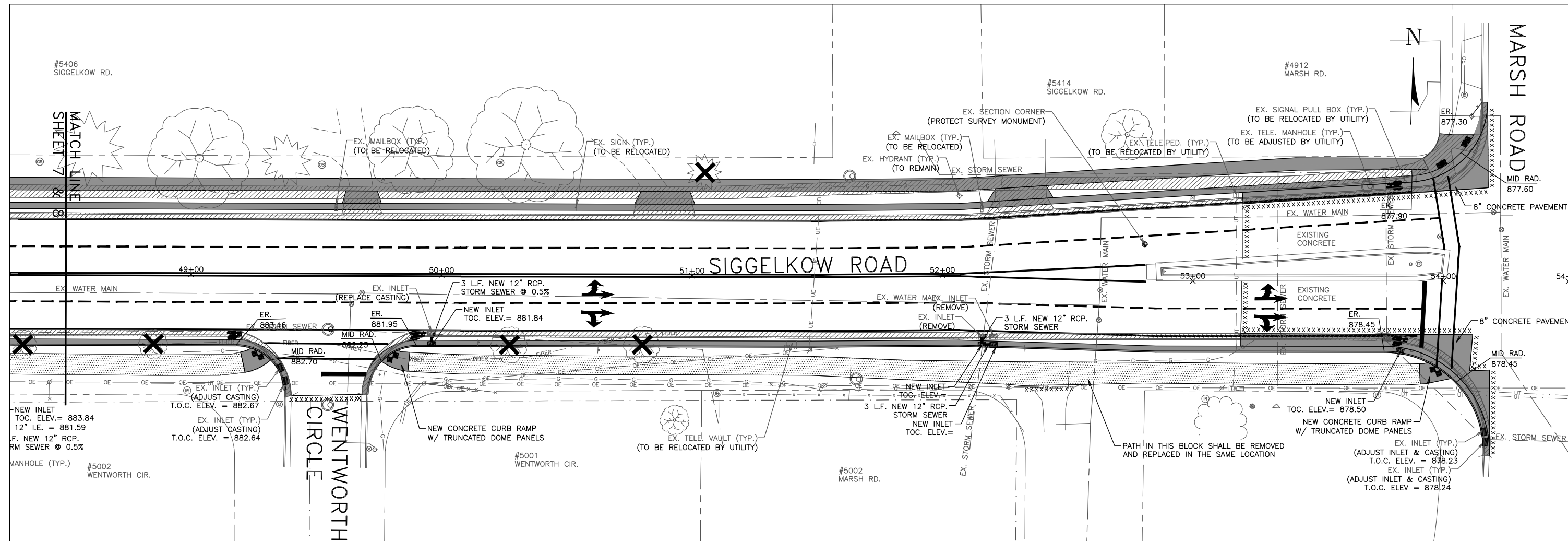
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PLAN & PROFILE
SIGGELKOW ROAD
Station 43+00 To Station 48+50

2018 STREET AND UTILITY IMPROVEMENTS
Siggelkow Road
Village of McFarland, Wisconsin

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VERTICAL 1 2
SHEET: 6



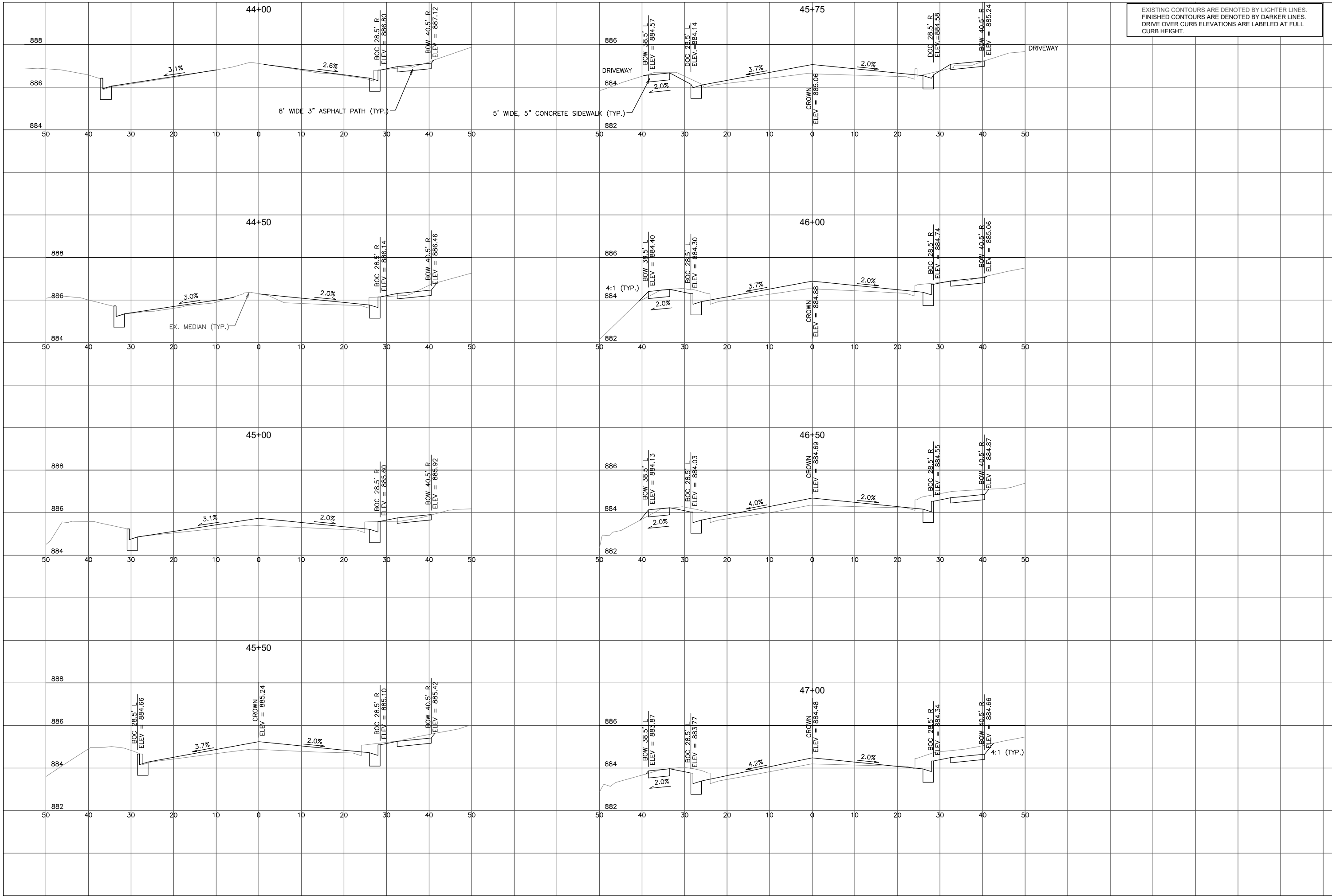
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Siggelkow Road
Village of McFarland, Wisconsin

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PLAN & PROFILE
Siggelkow Road
Station 48+50 To Marsh Road

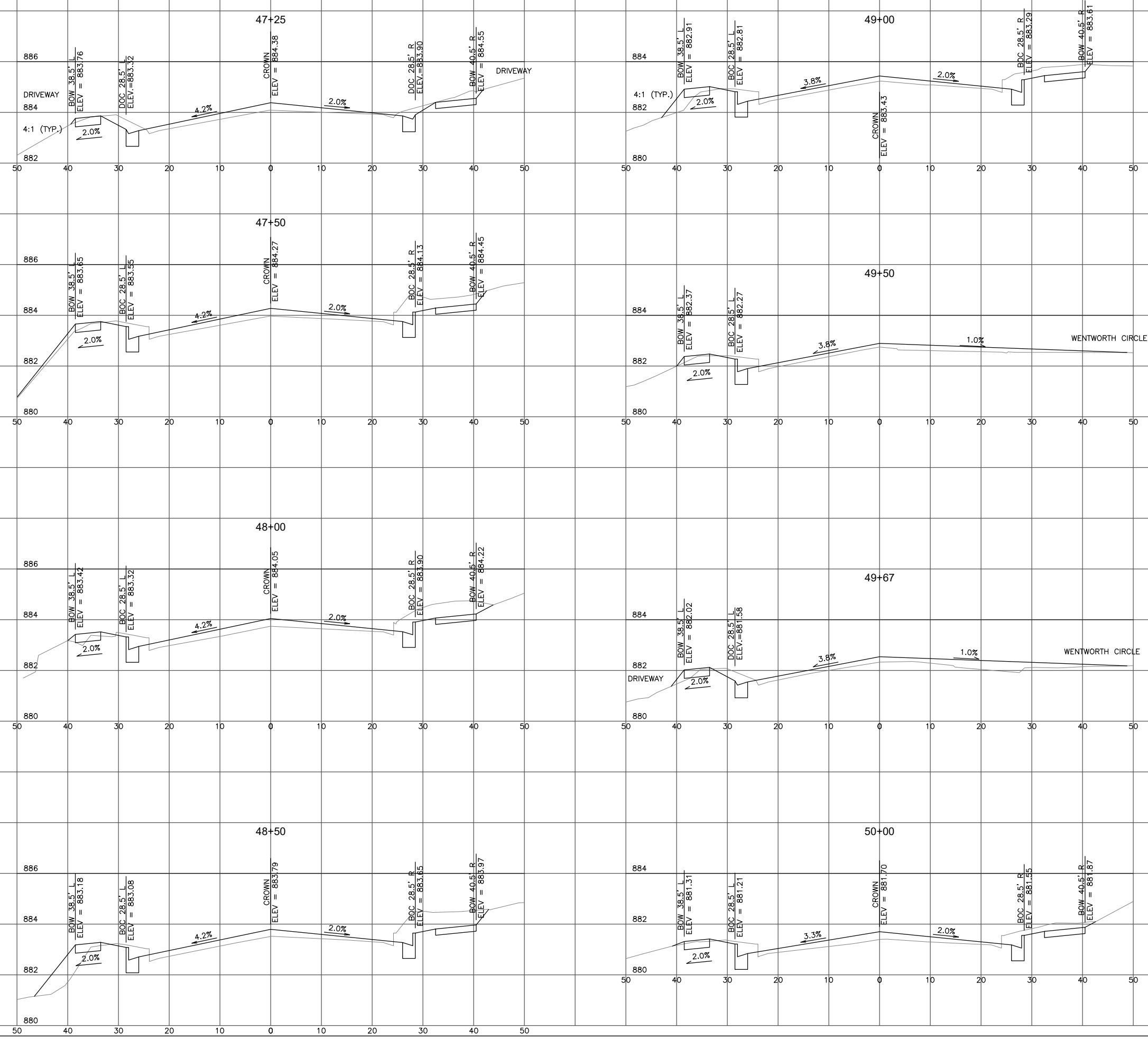
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EXISTING CONTOURS ARE DENOTED BY LIGHTER LINES.
 FINISHED CONTOURS ARE DENOTED BY DARKER LINES.
 DRIVE OVER CURB ELEVATIONS ARE LABELED AT FULL
 CURB HEIGHT.



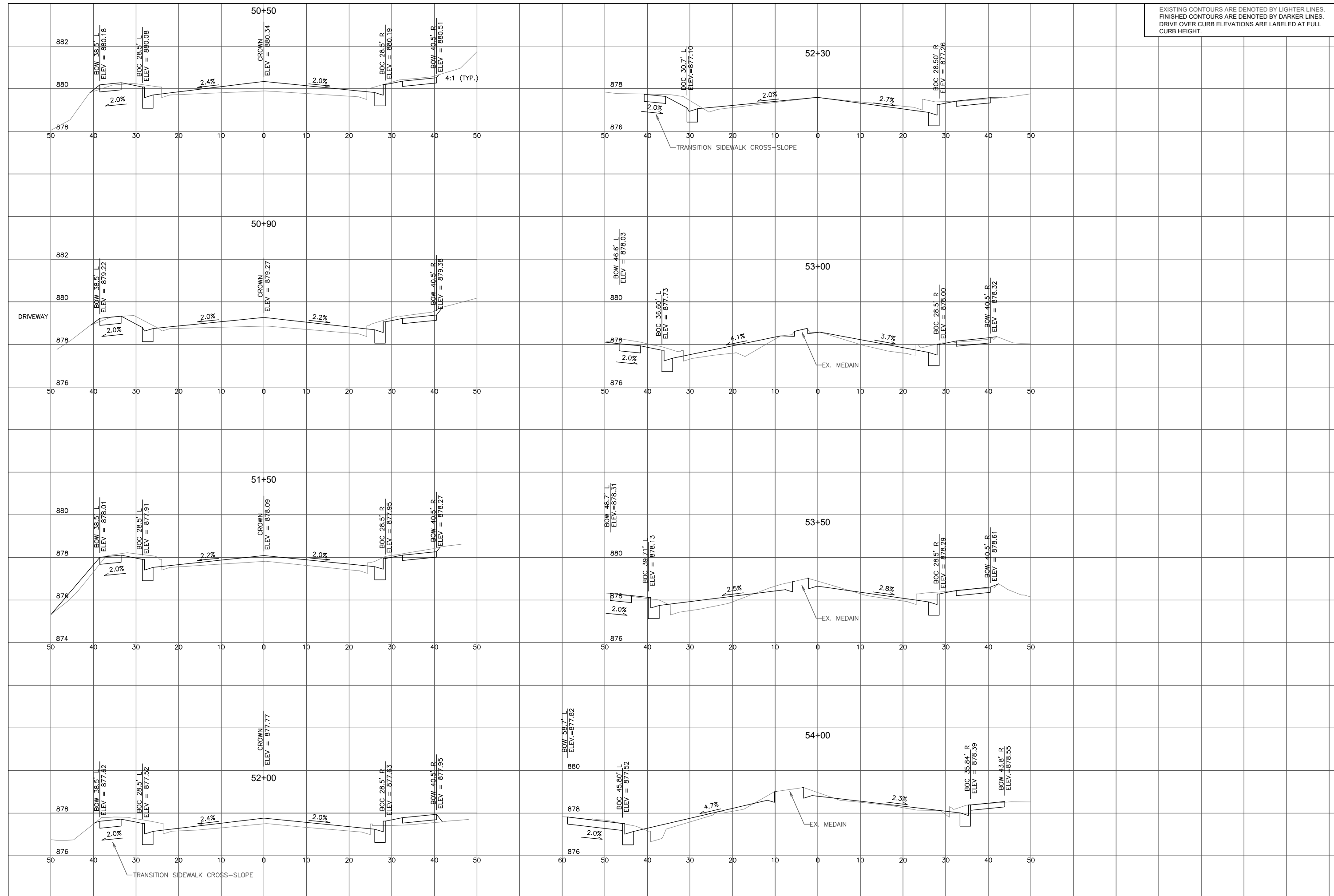
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SCALE: VERTICAL	1 2
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EXISTING CONTOURS ARE DENOTED BY LIGHTER LINES.
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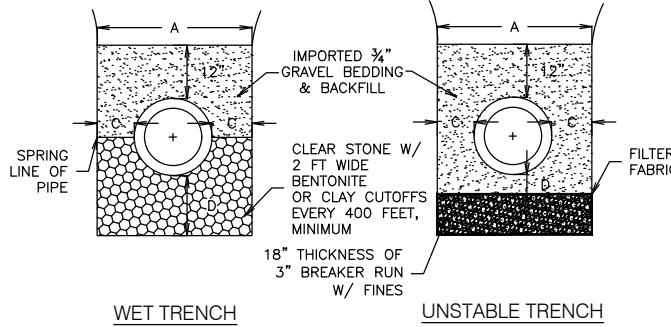
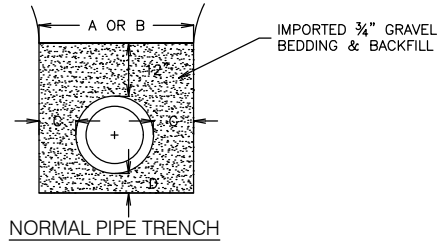
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SCALE: HORIZONTAL	0 2.5 5 10
SCALE: VERTICAL	1 2
SHEET:	9

EXISTING CONTOURS ARE DENOTED BY LIGHTER LINES.
 FINISHED CONTOURS ARE DENOTED BY DARKER LINES.
 DRIVE OVER CURB ELEVATIONS ARE LABELED AT FULL
 CURB HEIGHT.

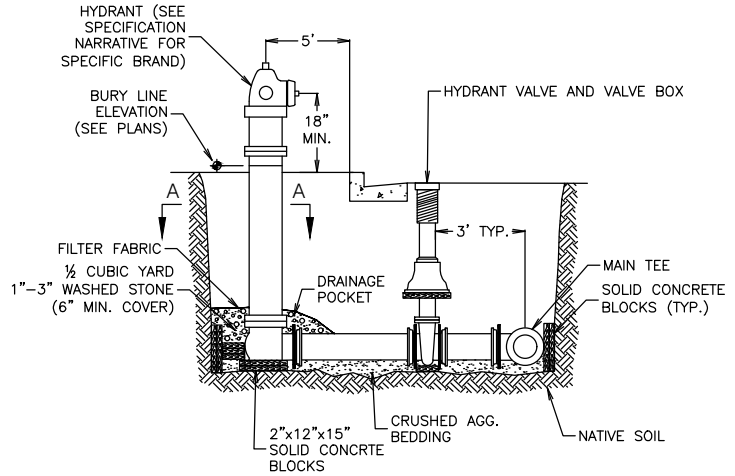


PROJECT NO.:	MC 118
DRAWING FILE:	SIGGELKOW.DWG
DRAWN BY:	M.J.M.
CHECKED BY:	T.J.T.
DATE:	1-25-18
REVISIONS:	1-26-18
SCALE: HORIZONTAL	0 2.5 5 10
SCALE: VERTICAL	1 2
SHEET:	10

DIMENSIONS:
 A: OUTSIDE DIAMETER OF PIPE PLUS 24" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36". TRENCH SHIELDS NARROWER THAN 4 FEET INSIDE WIDTH WILL NOT BE REQUIRED UNLESS SPECIFICALLY REQUIRED IN THE PROJECT SPECIFICATIONS.
 B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36".
 C: MINIMUM - 6"
 D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL

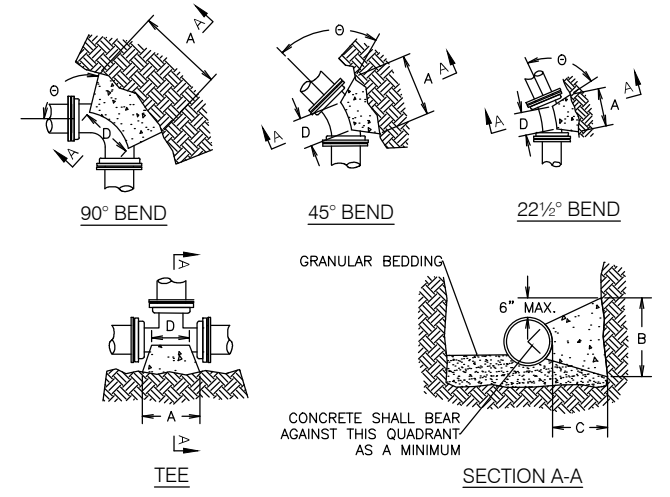


TRENCH WIDTH AND BEDDING DETAILS
 DETAIL 02221-A



NOTES:
 - THE HYDRANT AND HYDRANT VALVE SHALL BE CONNECTED TO THE MAIN TEE BY MEGA LUGS.
 - FILTER FABRIC SHALL BE WRAPPED AROUND THE DRAIN POCKET.
 - WHERE THE HYDRANT IS INSTALLED AT THE HIGH POINT OF THE WATER MAIN ON MAINS 10 INCHES IN DIAMETER AND LARGER THE CONTRACTOR SHALL TIP THE MAIN TEE UPWARDS 45 DEGREES AND USE A 45 DEGREE FITTING TO ALLOW AIR TO ESCAPE FROM THE MAIN.
 - WHERE THE LOCATION OF THE HYDRANT VALVE BOX WOULD BE IN ANY PORTION OF THE CURB AND GUTTER, THE CONTRACTOR SHALL PLACE THE VALVE IN THE TERRACE AREA.

STANDARD HYDRANT SETTING
 DETAIL NO. 02701-A-MC



DIMENSION "D" SHALL BE AS LARGE AS POSSIBLE, BUT THE CONCRETE SHALL NOT INTERFERE WITH THE MECHANICAL JOINTS.
 DIMENSION "C" SHALL BE AT LEAST 6 INCHES, AND LARGE ENOUGH TO MAKE THE "θ" ANGLE EQUAL TO OR GREATER THAN 45 DEGREES WITH THE DIMENSION "A" AS SHOWN ON THE TABLE, OR GREATER, AND WITH DIMENSION "D" AS LARGE AS POSSIBLE.

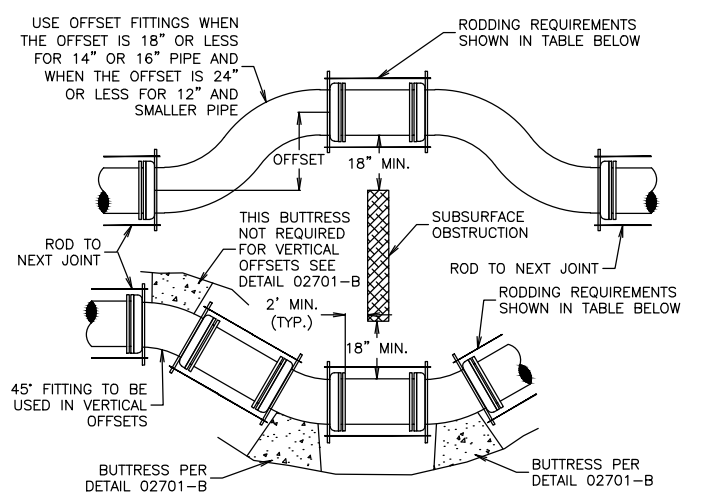
CONCRETE SHALL BE CLASS "CC", SEE SECTION 03301

PIPE SIZE	BUTTRISS DIMENSIONS							
	TEES		22.5° BEND		45° BEND		90° BEND	
	A	B	A	B	A	B	A	B
6	1'-3"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8	1'-6"	1'-4"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
10/12	2'-3"	2'-0"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
14/16	3'-2"	2'-6"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
18/20	4'-0"	3'-0"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
22/24	5'-3"	3'-4"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"
30	6'-3"	4'-3"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"

* = FOR TEE THIS WILL BE THE BRANCH PIPE

DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI AND SOIL RESISTANCE OF 2000 LBS./SQ.FT.

BUTTRISS DETAILS
 DETAIL NO. 02701-B

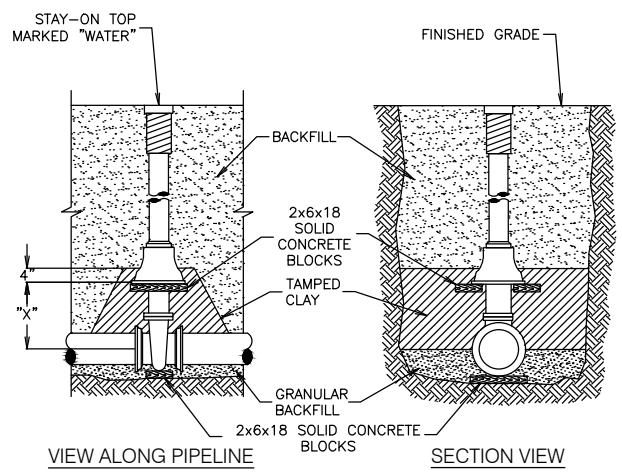


NOMINAL PIPE SIZE	RODS NO.	RODS DIA.	STRAP SIZE	BOLT DIA.	WASHER SIZE
6	3	3/8"	1/2" x 2"	3/8"	1/2" x 3 x 5
8	4	3/8"	1/2" x 2"	3/8"	1/2" x 3 x 5
10	4	3/8"	1/2" x 2 1/2"	1"	1/2" x 3 x 5
12	4	3/8"	1/2" x 2 1/2"	1"	1/2" x 3 x 5
14	4	3/8"	1/2" x 2 1/2"	1"	1/2" x 3 x 5

ALL DIMENSIONS IN THIS TABLE ARE IN INCHES

NOTES:
 - RODS AND WASHERS TO BE ASTM A-575 MERCHANT QUALITY 0.17-0.24 CARBON. NUTS TO BE AMERICAN STANDARD HEAVY, NOT PRESSED.
 - TIE RODS, BOLTS, NUTS, BANDS AND WASHERS TO BE FURNISHED AND ASSEMBLED BY THE CONTRACTOR.
 - ALL STEEL MATERIAL TO BE GALVANIZED OR THOROUGHLY COATED WITH ENGINEER APPROVED COATING.
 - OFFSET FITTINGS REQUIRE CONTINUOUS RODDING IN ALL POSITIONS.
 - VERTICAL OFFSETS SHALL NOT CREATE A HIGH POINT IN THE WATER MAIN. VERTICAL OFFSETS REQUIRE THE SAME RODDING AND BUTTRISSING AS SHOWN ABOVE.
 - MEGALUG RESTRAINTS MAY BE USED IN LIEU OF RODDING.

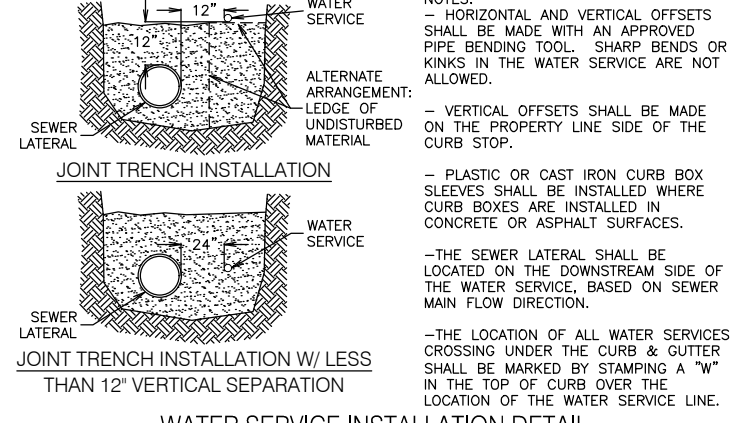
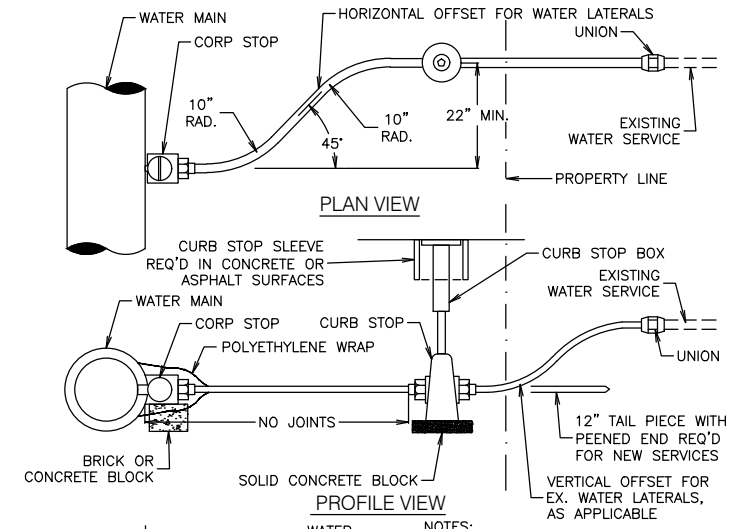
OFFSET AND RODDING DETAILS
 DETAIL 02701-C



PIPE DIA., INCHES	6	8	10	12	14	16
"X" DIMENSION, INCHES	12	13	17	21	25	30

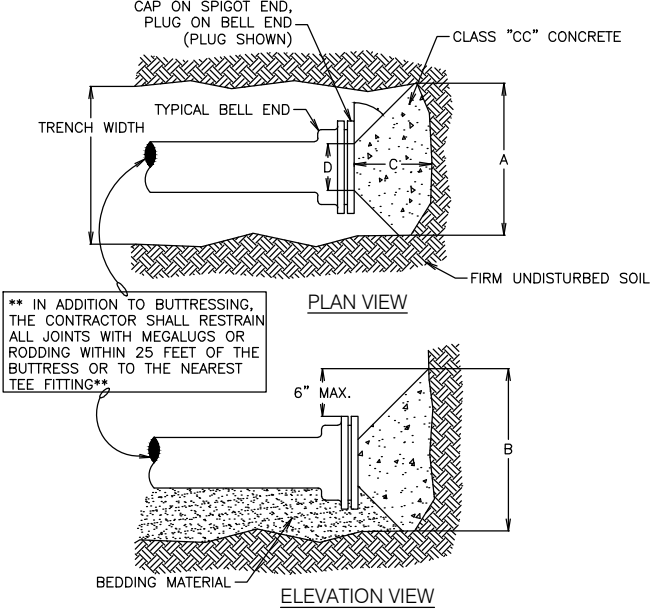
NOTES:
 - VALVES SHALL BE SECURED WITH MEGALUGS TO THE NEAREST "TEE" FITTING OR TO THE FIRST JOINT CONNECTING A FULL SECTION OF WATER MAIN PIPE.

STANDARD VALVE BOX SETTING
 DETAIL 02701-D



NOTES:
 - HORIZONTAL AND VERTICAL OFFSETS SHALL BE MADE WITH AN APPROVED PIPE BENDING TOOL. SHARP BENDS OR KINKS IN THE WATER SERVICE ARE NOT ALLOWED.
 - VERTICAL OFFSETS SHALL BE MADE ON THE PROPERTY LINE SIDE OF THE CURB STOP.
 - PLASTIC OR CAST IRON CURB BOX SLEEVES SHALL BE INSTALLED WHERE CURB BOXES ARE INSTALLED IN CONCRETE OR ASPHALT SURFACES.
 - THE SEWER LATERAL SHALL BE LOCATED ON THE DOWNSTREAM SIDE OF THE WATER SERVICE, BASED ON SEWER MAIN FLOW DIRECTION.
 - THE LOCATION OF ALL WATER SERVICES CROSSING UNDER THE CURB & GUTTER SHALL BE MARKED BY STAMPING A "W" IN THE TOP OF CURB OVER THE LOCATION OF THE WATER SERVICE LINE.

WATER SERVICE INSTALLATION DETAIL
 DETAIL 02701-F-MC



** IN ADDITION TO BUTTRISSING, THE CONTRACTOR SHALL RESTRAIN ALL JOINTS WITH MEGALUGS OR RODDING WITHIN 25 FEET OF THE BUTTRISS OR TO THE NEAREST TEE FITTING**

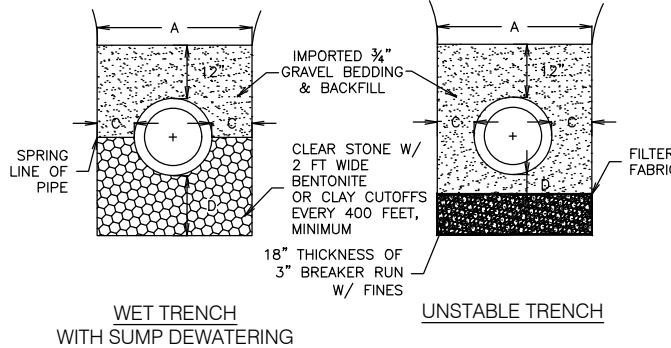
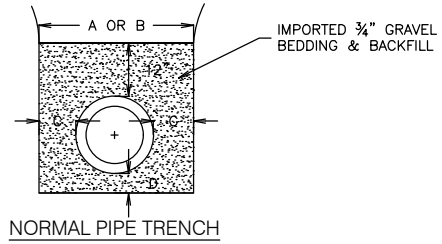
DIA.	BUTTRISS DIMENSIONS			
	A	B	C	D
6"	1'-3"	1'-0"		
8"	1'-8"	1'-6"		
10"	2'-0"	1'-8"		
12"	2'-5"	1'-10"		
16"	3'-4"	2'-4"		
20"	4'-3"	2'-10"		
24"	5'-2"	3'-4"		
30"	6'-9"	4'-0"		

SEE NOTES ABOVE

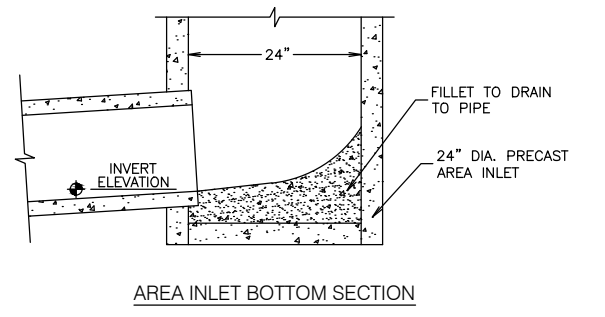
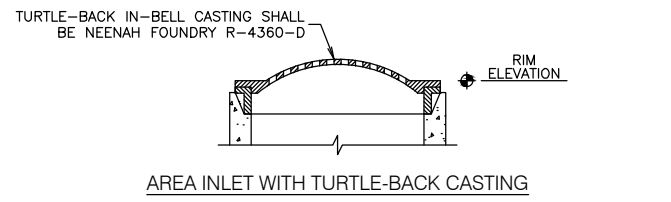
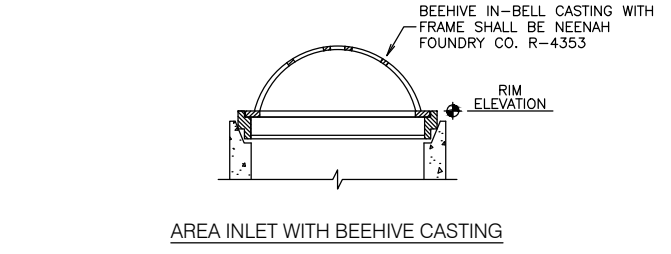
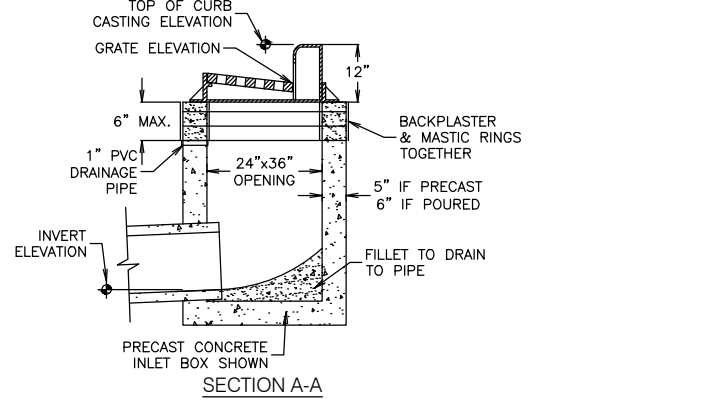
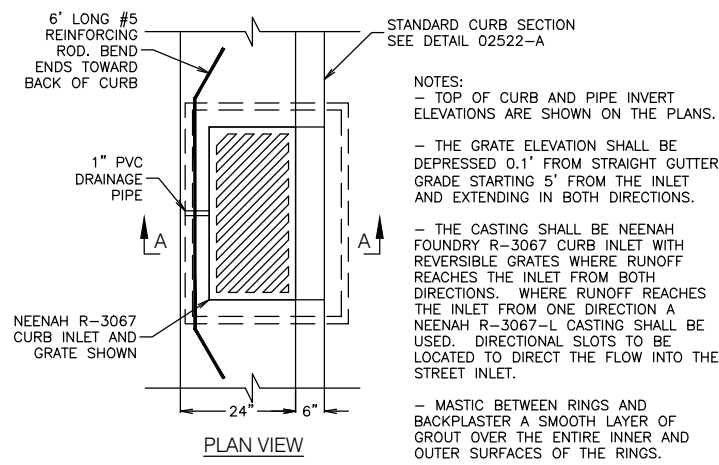
NOTES:
 - DIMENSION "C" SHALL BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR GREATER THAN 45°.
 - DIMENSION "D" EQUALS APPROX. I.D. OF PIPE, LESS 2 INCHES. CONTRACTOR SHALL PROTECT THE MECH. JOINT BOLTS FROM THE CONCRETE BUTTRISS.
 - BUTTRISS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF 2 TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

BUTTRISS DETAIL FOR DEAD ENDS
 DETAIL 02701-H

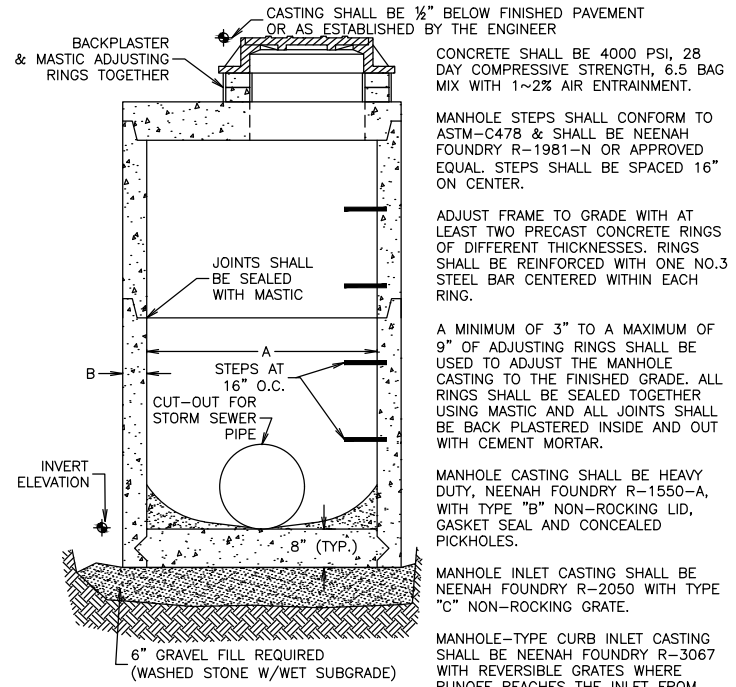
DIMENSIONS:
 A: OUTSIDE DIAMETER OF PIPE PLUS 24" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36". TRENCH SHIELDS NARROWER THAN 4 FEET INSIDE WIDTH WILL NOT BE REQUIRED UNLESS SPECIFICALLY REQUIRED IN THE PROJECT SPECIFICATIONS.
 B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36".
 C: MINIMUM - 6"
 D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL



TRENCH WIDTH AND BEDDING DETAILS
 DETAIL 02221-A

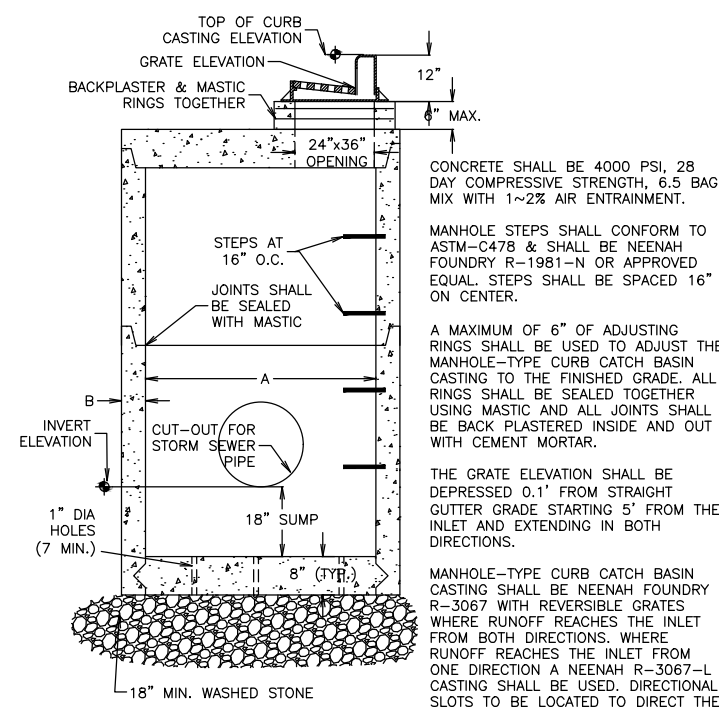


AREA INLET DETAIL
 DETAIL 02721-B



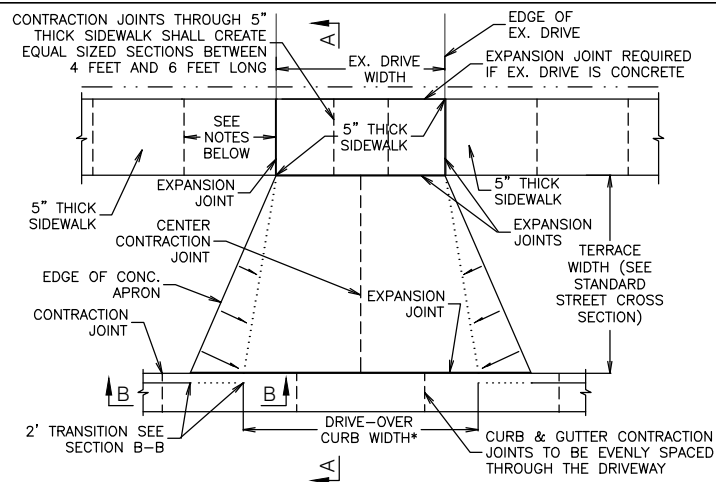
MANHOLE SIZE	DIMENSION	
	A	B (MIN.)
48"	48"	5"
60"	60"	6"
72"	72"	7"
84"	84"	7"
96"	96"	9"

STORM SEWER MANHOLE/MANHOLE INLET/ MANHOLE-TYPE CURB INLET DETAIL
 DETAIL 02721-F



MANHOLE SIZE	DIMENSION	
	A	B (MIN.)
48"	48"	5"
60"	60"	6"
72"	72"	7"
84"	84"	7"
96"	96"	9"

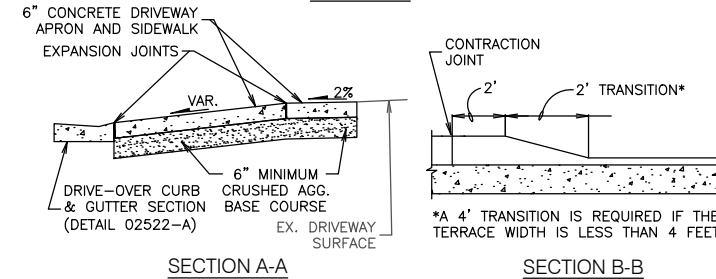
STORM SEWER MANHOLE-TYPE CURB CATCH BASIN DETAIL
 DETAIL 02721-Q



NOTES: - 5" THICK WALK WIDTH SHALL BE EQUAL TO THE EX. DRIVE WIDTH OR A MINIMUM OF 12' CENTERED ON THE EX. DRIVE. THE DRIVE-OVER CURB WIDTH SHALL BE EQUAL TO THE 5" THICK WALK WIDTH PLUS 2', CENTERED ON THE EX. DRIVE.

- CONTRACTION JOINTS IN 5" THICK SIDEWALKS SHALL BE PLACED EVERY 5'. EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED 96 FEET.

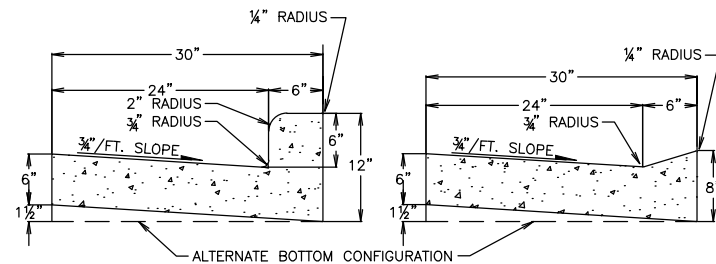
PLAN VIEW



SECTION A-A

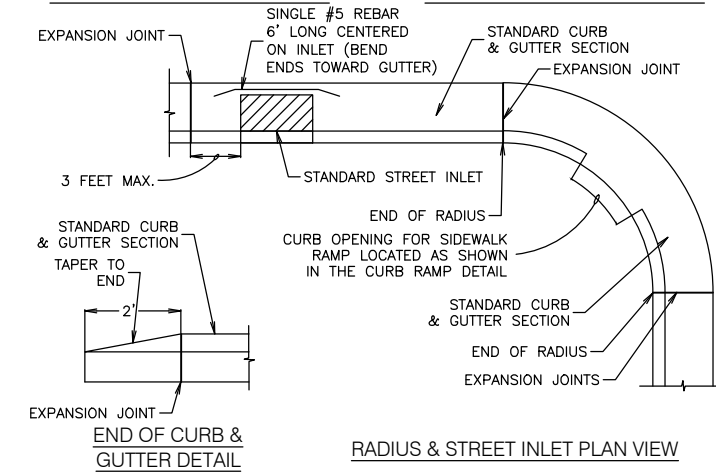
SECTION B-B

DRIVEWAY DETAILS
DETAIL 02521-A



STANDARD CURB & GUTTER CROSS SECTION DIMENSIONS

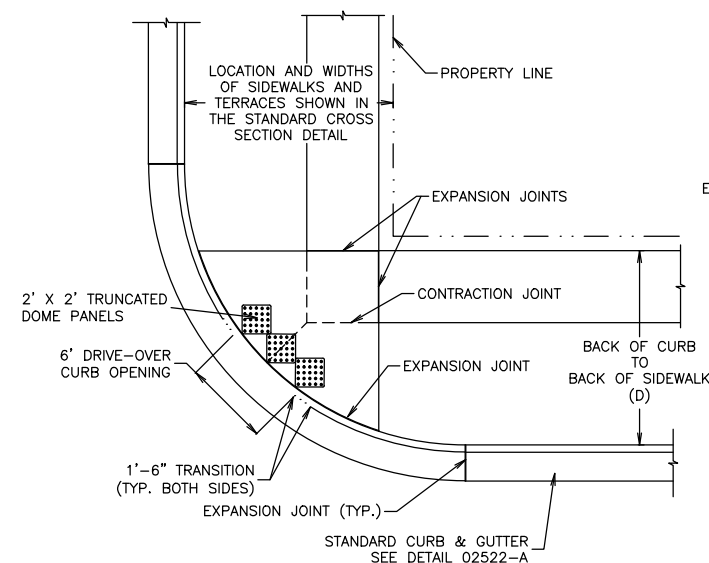
DRIVE-OVER CURB & GUTTER CROSS SECTION DIMENSIONS



NOTES:
1.) CONTRACTION JOINTS SHALL BE PLACED EVERY 6 TO 12 FEET AND AT LOCATIONS SHOWN IN THE CURB RAMP AND DRIVEWAY DETAILS.
2.) EXPANSION JOINTS SHALL BE PLACED AT EVERY END OF RADIUS, 3 FEET ON ONE SIDE OF EACH STREET INLET AND AT INTERVALS NOT TO EXCEED 300 FEET.

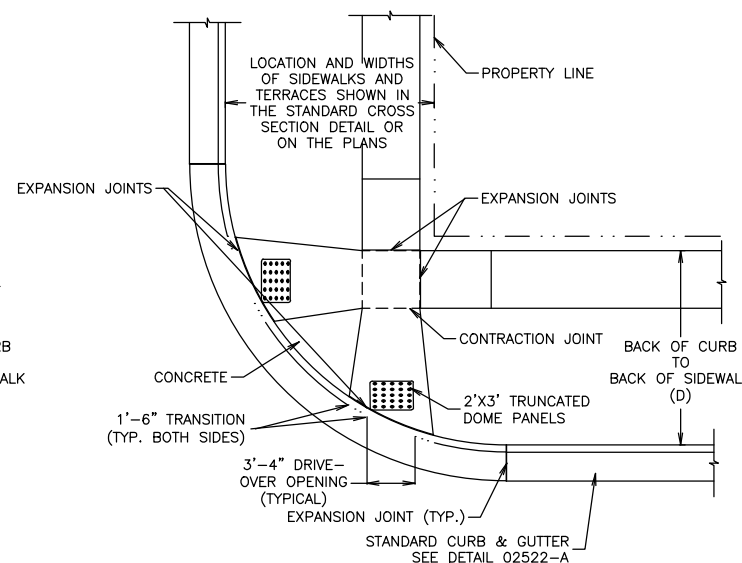
CONCRETE CURB & GUTTER DETAILS
DETAIL 02522-A

TYPE 1 CURB RAMP
- FOR USE WHEN THE DISTANCE FROM THE BACK OF THE CURB TO THE BACK OF THE SIDEWALK (D) IS LESS THAN 12 FEET.

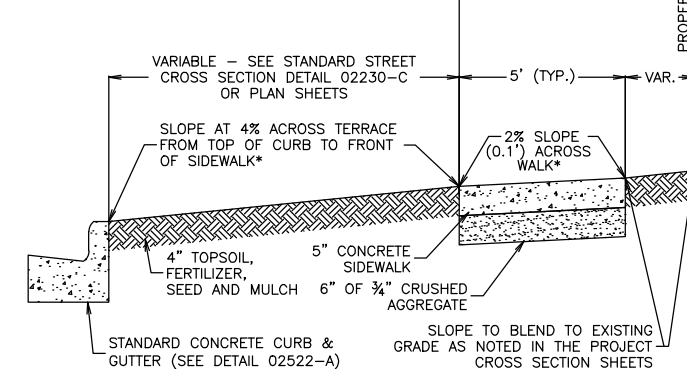


CURB RAMP DETAIL
DETAIL 02521-D

TYPE 2 CURB RAMP
- FOR USE WHEN THE DISTANCE FROM THE BACK OF THE CURB TO THE BACK OF THE SIDEWALK (D) IS GREATER THAN OR EQUAL TO 12 FEET.

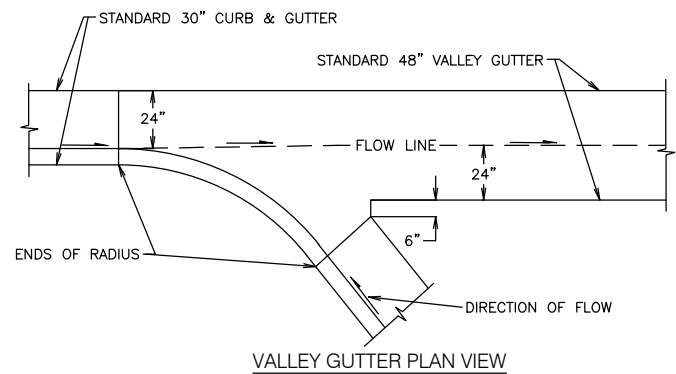


CURB RAMP DETAIL
DETAIL 02521-D

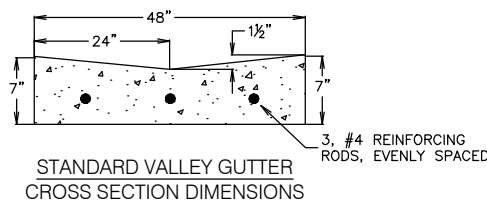


* WHERE PLAN CROSS SECTIONS CONFLICT WITH THIS DETAIL THE PLAN CROSS SECTIONS SHALL GOVERN.

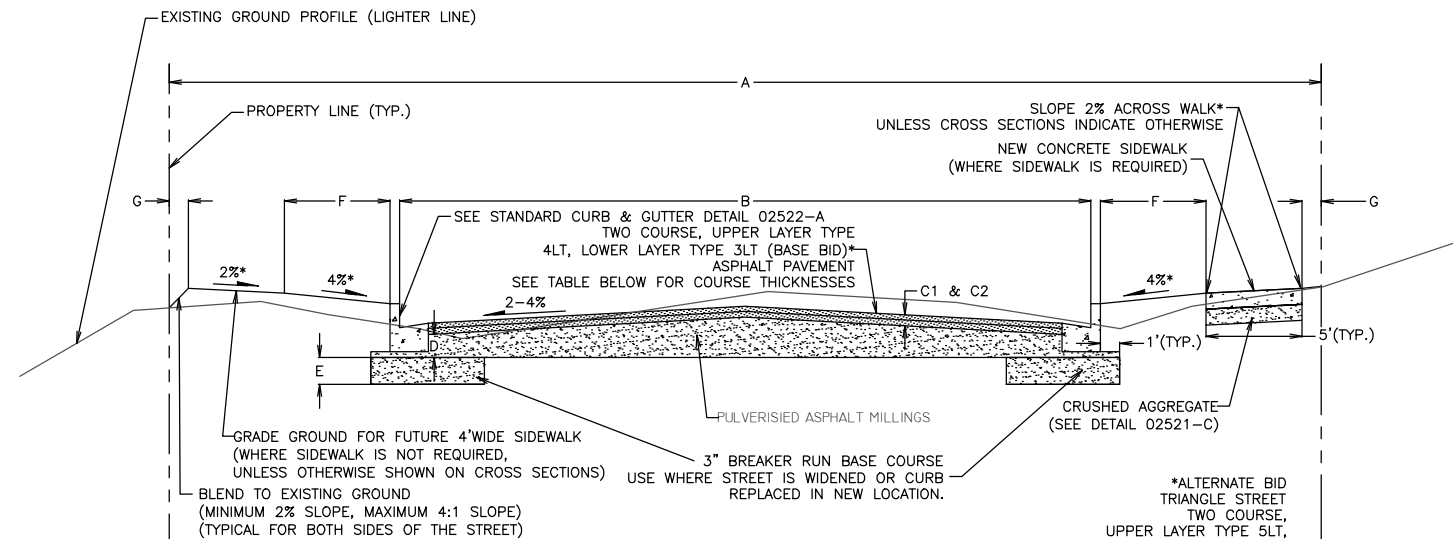
SIDEWALK - TERRACE SECTION
DETAIL 02521-C



VALLEY GUTTER PLAN VIEW



VALLEY GUTTER DETAILS
DETAIL 02522-B



STANDARD STREET DETAIL DIMENSIONS

	A	B	C1	C2	D	E	F	G
	RIGHT OF WAY WIDTH	CURB FACE TO CURB FACE WIDTH	LOWER COURSE THICKNESS	SURFACE COURSE THICKNESS	C.A.B.C. THICKNESS*	3" BREAKER RUN B.C. THICKNESS	TERRACE WIDTH	BACK OF WALK TO PROP. LINE
STREET NAME								
SIGGELKOW RD.	100'+/-	56'	2 3/4"	2 1/4"	6"	12"	4'-5'	1'
TRIANGLE ST.	66'+/-	40'	1 3/4"	1 1/2"	6"	12"	6'	1'

* WHERE PLAN CROSS SECTIONS CONFLICT WITH THIS DETAIL THE PLAN CROSS SECTIONS SHALL GOVERN.

NOTES:
THE CROWN OF THE ROAD SHALL BE CREATED USING THE PULVERISIED ASPHALT MILLINGS. THE THICKNESS SHOWN IS THE MINIMUM THICKNESS REQUIRED AS MEASURED AT THE CONCRETE CURB & GUTTER SECTION.

THE 3" BREAKER RUN BASE COURSE THICKNESS MAY NEED TO BE INCREASED DEPENDING UPON SUBGRADE CONDITIONS.

STANDARD STREET CROSS SECTION DETAIL
DETAIL 02230-C



NOTE: SPOT CURB REMOVAL & REPLACEMENT AREAS WILL BE MARKED IN THE FIELD. QUANTITIES MAY VARY FROM THE BID PROPOSAL.

SIGGELKOW ROAD

COMMERCE COURT

TRIANGLE STREET

PULVERIZE AND OVERLAY

US HIGHWAY 51

TRIANGLE STREET

PULVERIZE AND OVERLAY

SAWCUT LIMITS

SAWCUT LIMITS

MATCH LINE STATION 7300

MATCH LINE STATION 7300

N

N

PROJECT NO.:	MC 118
DRAWING FILE:	TRIANGLE.DWG
DRAWN BY:	T.J.T.
CHECKED BY:	T.J.T.
DATE:	1-25-18
REVISIONS:	

