

Public Works Committee

Tuesday, November 10, 2020

6:00 PM

**McFarland Municipal Center
Community Room**

AGENDA

You are invited to this meeting through a Zoom webinar. The Public is strongly encouraged to watch and participate in these meetings remotely through either the webinar or telephone options listed below.

PLEASE CLICK THE LINK BELOW TO JOIN THE ZOOM WEBINAR:

<https://us02web.zoom.us/j/84849163272>

Or by Telephone: +1 (312) 626-6799

Webinar ID: 848 4916 3272

1. CALL TO ORDER, ROLL CALL.
2. PUBLIC APPEARANCES.
3. APPROVAL OF MINUTES.
 - a. Discussion and action regarding the minutes from the Public Works meeting held on October 13, 2020.
4. BUSINESS.
 - a. Discussion and action to make a recommendation to the Village Board regarding the final design and authorize the County Highway MN project for bidding.
 - b. Discussion and action to make a recommendation to the Village Board regarding the creation of a Traffic Management Request Policy as Chapter 1 of the Public Works Policy Manual.
 - c. Discussion and action to make a recommendation regarding a Street Light Policy to the Village Board.
 - d. Presentation of the Public Works Monthly Report.
5. SCHEDULE NEXT MEETING DATE.
 - a. Tuesday December 15, 2020 at 6:00 p.m.
6. ADJOURNMENT.

This meeting notice constitutes an official meeting of the above referenced group and was posted in accordance with all applicable laws related to Open Meetings Law. It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information. No action will be taken by any

governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice. Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals. For additional information or to request this service, contact the McFarland Municipal Center at (608) 838-3153 or cassandra.suettinger@mcfarland.wi.us.

VILLAGE OF MCFARLAND

Public Works Committee Minutes

Tuesday October 13, 2020 – 6:00 P.M.

1. CALL TO ORDER, ROLL CALL

The meeting was called to order by Village Trustee and Committee Chairperson Carolyn Clow at 6:00 p.m. This meeting was held via Zoom.

Members present: Village Trustee Justin Rupert, Marv Meyers, Jerry Adrian, Rich Whipple, Peter Robinson. Absent: Chris Fredrick.

Staff present: Jim Hessling (Director of Public Works/Utilities), Lee Igl (Public Works Superintendent), Andrew Bremer (Community and Economic Development Director), Aimee Irwin (Assistant to the Director), Brian Berquist (Town & Country Engineering)

2. PUBLIC APPEARANCES

None

3. APPROVAL OF MINUTES

- a. Discussion and action regarding the minutes from the Public Works meeting held on September 8, 2020.
 - a. Motion by Marv Meyers to approve minutes as presented.
Seconded by Justin Rupert. Motion passed 6-0-0.

4. BUSINESS

- a. Discussion and action to make a recommendation to the Village Board regarding the final plat of Rosewood Fields Final Plat including public improvements.
 - Andrew Bremer provided an overview of the Veridian project for Rosewood Fields. The preliminary plat was presented in May 2020. The committee was provided with the final plat design with minor edits from the preliminary plat.
 - Dan Day with Vandewalle & Associates Inc. provided a brief presentation summarizing the Rosewood Fields Final Plat design. The presentation included information such as: 60 foot right-of-way, 7.5 foot terrace, paved trail approximately 2,360 feet in length, stormwater management plans, 150 year flood plan and cluster box units (CBU) for postal services. The phasing portion of this project has not been finalized as it will be dependent on other projects such as the Eastside Interceptor but phase one is planned for 2021.
 - Brian Berquist provided an update regarding the Eastside Interceptor with estimated completion of the project in early 2021. This project is currently under DNR review for approval. Berquist

then reviewed Town & Country Engineering's recommendations for Rosewood Fields and stated that the stormwater management plan including the 150 year flood plan provided by Veridian requires further review yet by Town & Country.

- Committee members discussed the proposed final plat. Marv Meyers asked if basements were planned with these homes and if drainage problems may occur similar to homes built prior on Elvehjem Road. Dan Day responded that yes basements are planned. Berquist provided that the land for Rosewood Fields is higher than homes built on Elvehjem Road. Jerry Adrian asked if ground water divert issues could occur with the current plan. Berquist stated he does not believe ground water diversion would be an issue. Andrew Bremer asked for clarification on what out lots would be responsibility of the Village and for a brief summary of landscaping plans thus far. Dan Day reviewed the three main areas that would become Village responsibility and provided a short review of landscaping plans including native plantings or grasses being utilized. Andrew Bremer provided to the committee the review recently completed by the Fire Chief regarding phasing. Dan Day responded that upon further review they would work recommendations into the phasing plan.
- Motion by Carolyn Clow recommending to the Village Board the acceptance of the final plat of Rosewood Fields with the recommendations provided in the letter from September 11, 2020 made by Town & Country, coordinating with staff regarding landscaping plans and coordinating with the Fire department for phasing recommendations. Seconded by Justin Rupert. Motion passed 6-0-0

b. Discussion and action to make a recommendation to the Village Board regarding the creation of a Traffic Management Request Policy as Chapter 1 of the Public Works Policy Manual.

- Carolyn Clow provided a brief summary related to past requests for traffic management that would come before the committee for review and her recommendation for a policy to assist staff with a process for managing these requests in the future.
- Lee Igl reviewed the provided draft policy document. Traffic management requests are filtered to the Police department for initial review. The draft policy includes that a request would include a petition of the neighborhood area impacted by the request. Once the request and petition are received the Police and Public Works departments would review the request. If a request may be vulnerable, it may be brought to the committee for approval. If a

request involves any ordinance changes these would require committee and Village Board approval.

- Committee members discussed the proposed policy. Rich Whipple asked how the policy defines neighborhood area as related to the petition. Lee Igl stated that this area depends on the type of request being filed and the resident would be guided on the area required. Jerry Adrian provided several grammatical recommendations for staff to incorporate. Committee members discussed the requirement of a petition included with the initial request. Jerry Adrian recommended the possible inclusion of the amount of space or feet the petition would need to cover. Carolyn Clow asked if the petition could be requested after the initial request was filed. Lee Igl stated that staff could work to develop a list of requests that would require a petition up front such as a stop sign. Carolyn Clow recommended that staff complete the grammatical edits including the review of the petition requirement and bring back the policy for further review in November.
- No action was taken on this item.

c. Presentation of the Public Works Monthly Report from the Director.

- Jim Hessling provided an update on public works activities in the Village for the month of September 2020 including the public works building renovations progress, road construction status, update regarding Lead & Copper sampling sites and staff trainings. Hessling also briefly summarized projects and equipment acquisitions for 2021.

5. SCHEDULE NEXT MEETING DATE

- a. Tuesday November 10, 2020 at 6:00 pm
- b. Discussion and proposal to adjusted scheduled date for Public Works December meeting
 - Staff proposed adjusting the December meeting from December 8, 2020 to December 15, 2020.

6. ADJOURNMENT

- a. Motion by Marv Meyers to adjourn at 7:17 p.m. Seconded by Justin Rupert. Motion passed 6-0-0.

Respectfully submitted by Aimee Irwin



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Tuesday, November 10, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Jim Hessling, Public Works Director

AGENDA ITEM: Discussion and action to make a recommendation to the Village Board regarding the final design and authorize the County Highway MN project for bidding.

PREVIOUS ACTION:

The Public Works Committee reviewed the 60% design plans at their meeting on August 13, 2020.

An online form was held to present plans to the public on August 31, 2020. There were about 33 people in attendance from the public.

The Public Works Committee reviewed the final design plans at their meeting on September 8, 2020 but recommended phasing included in the plans before approval.

ISSUE SUMMARY:

As part of the Hwy MN Phase 4 road project, a final design decision needs to be accepted by the Committee and then direction provided to go to bid for the project as a recommendation to the Village Board. The Village Board will then take final action as part of the next step to advance the project that is desired for implementation in 2021. This is a reconstruction project that will transform the road from a rural section to an urban one. The project area runs from Holscher Road to east just past North Peninsula Way.

The entire design is included in your packet for consideration as listed on the agenda. Further development to the east of this ending point appears delayed and the remaining road work can be addressed at a future time. Work on this segment is intended to be completed in 2021. The tentative timeline for this project is as follows:

- November 10, 2020 – Public Works Committee: Action would include approval of the final design and authorization to the Village board for bidding of the project.
- November 23, 2020 - Village Board: The board receives the recommendation to accept the final design and send the project to bid. Also the same night the Village Board will adopt the 2021 Budget which is inclusive of this project.
- January 2021 - Bid the Project



- February 2021 - Committee/Board consideration of bids.
- April 2021 - Project Commencement

FINANCIAL/BUDGET IMPACT:

Included with the attachments is a cost estimate summary. The Village portion of the project is estimated to be \$295,163. This amount has been included within the 2021 budget.

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:

1. MC 174 CURRENT SET
2. CTH MN - Phase 4A

2021 CTH MN/BROADHEAD STREET UTILITY AND STREET IMPROVEMENTS

Village of McFarland, Wisconsin

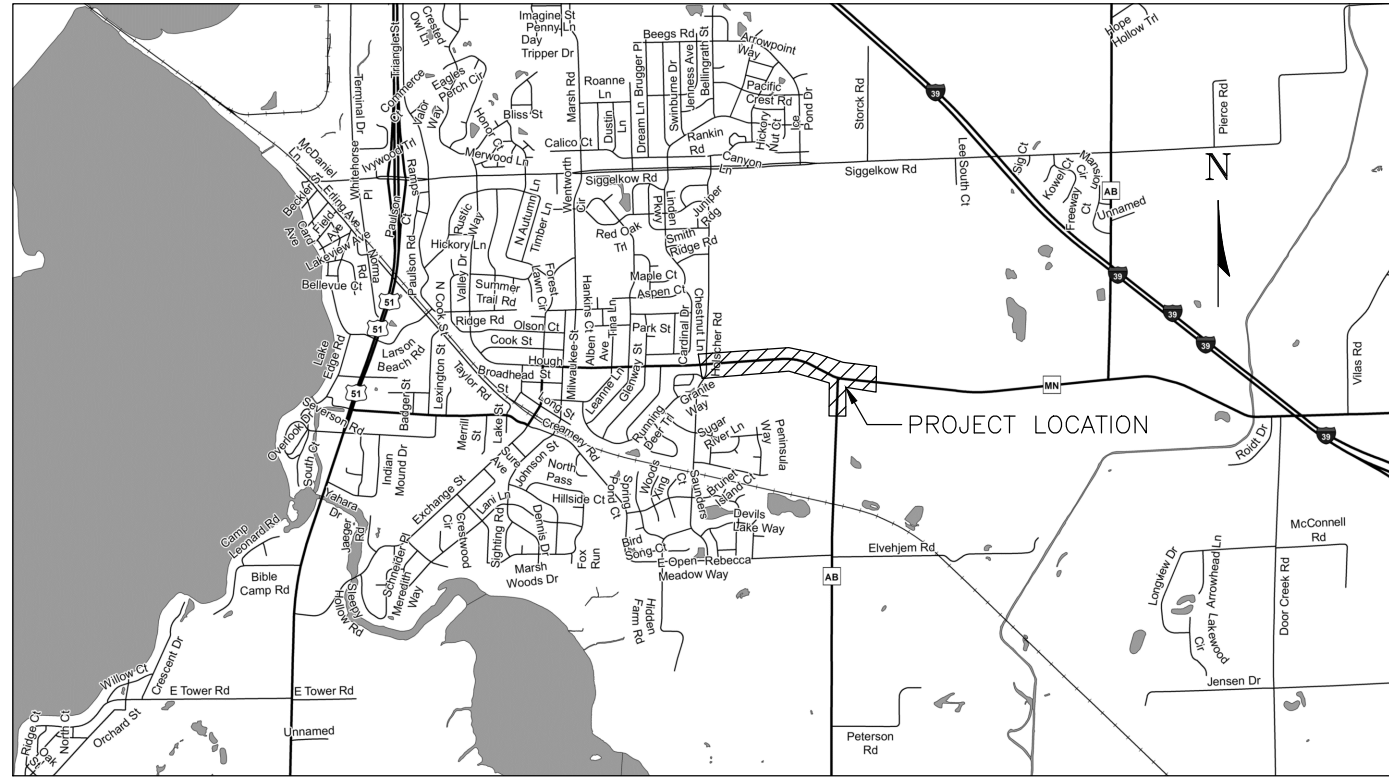
BY	DATE	REVISIONS	SHEET

2021 CTH MN/BROADHEAD STREET
UTILITY AND STREET IMPROVEMENTS
Village of McFarland, Wisconsin

PROJECT NO.: MC 174
DRAWING FILE: MC 174 DETAILS.DWG
DATE: 10-29-20

DRAWN BY: J.R.K.
CHECKED BY: N.R.B.
REV. DATE:

SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
1	EROSION CONTROL PLAN AND GENERAL NOTES
2	EROSION CONTROL - STANDARD CONSTRUCTION DETAILS
SANITARY SEWER, WATER MAIN, AND STORM SEWER	
A1	PLAN & PROFILE - CTH MN STATION 11+20 TO STATION 17+20
A2	PLAN & PROFILE - CTH MN STATION 16+80 TO STATION 22+80
A3	SANITARY SEWER - STANDARD CONSTRUCTION DETAILS
A4	WATER MAIN - STANDARD CONSTRUCTION DETAILS
A5	STORM SEWER - STANDARD CONSTRUCTION DETAILS
A6	STREET IMPROVEMENTS - STANDARD CONSTRUCTION DETAILS
B1	PLAN & PROFILE - CTH MN STATION 11+20 TO STATION 17+20
B2	PLAN & PROFILE - CTH MN STATION 16+80 TO STATION 22+80
X1	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X2	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X3	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X4	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX
X5	CROSS SECTIONS - CTH MN STATION XX+XX TO STATION XX+XX



NO SCALE

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.

LEGEND

UNDERGROUND TELE. ———— UT ———— UT ———— UT ————
 UNDERGROUND CATV. ———— UCATV ————
 UNDERGROUND ELEC. ———— UE ———— UE ———— UE ———— UE ————
 OVERHEAD ———— OH ———— OH ———— OH ————
 EXISTING GAS ———— G ———— G ———— G ———— G ————
 PROPERTY LINE ———— P ———— P ———— P ———— P ————
 EXISTING WATER MAIN ———— WM ———— WM ———— WM ———— WM ————
 EXISTING SANITARY SEWER ———— SAN ———— SAN ———— SAN ———— SAN ————
 EXISTING STORM SEWER ———— STM ———— STM ———— STM ———— STM ————
 EXISTING FENCE LINE ———— X ———— X ———— X ———— X ————
 SAWCUT ———— X ———— X ———— X ———— X ————
 NEW STORM SEWER ———— S ———— S ———— S ———— S ————
 NEW WATER MAIN ———— W ———— W ———— W ———— W ————
 NEW SANITARY SEWER ———— SA ———— SA ———— SA ———— SA ————

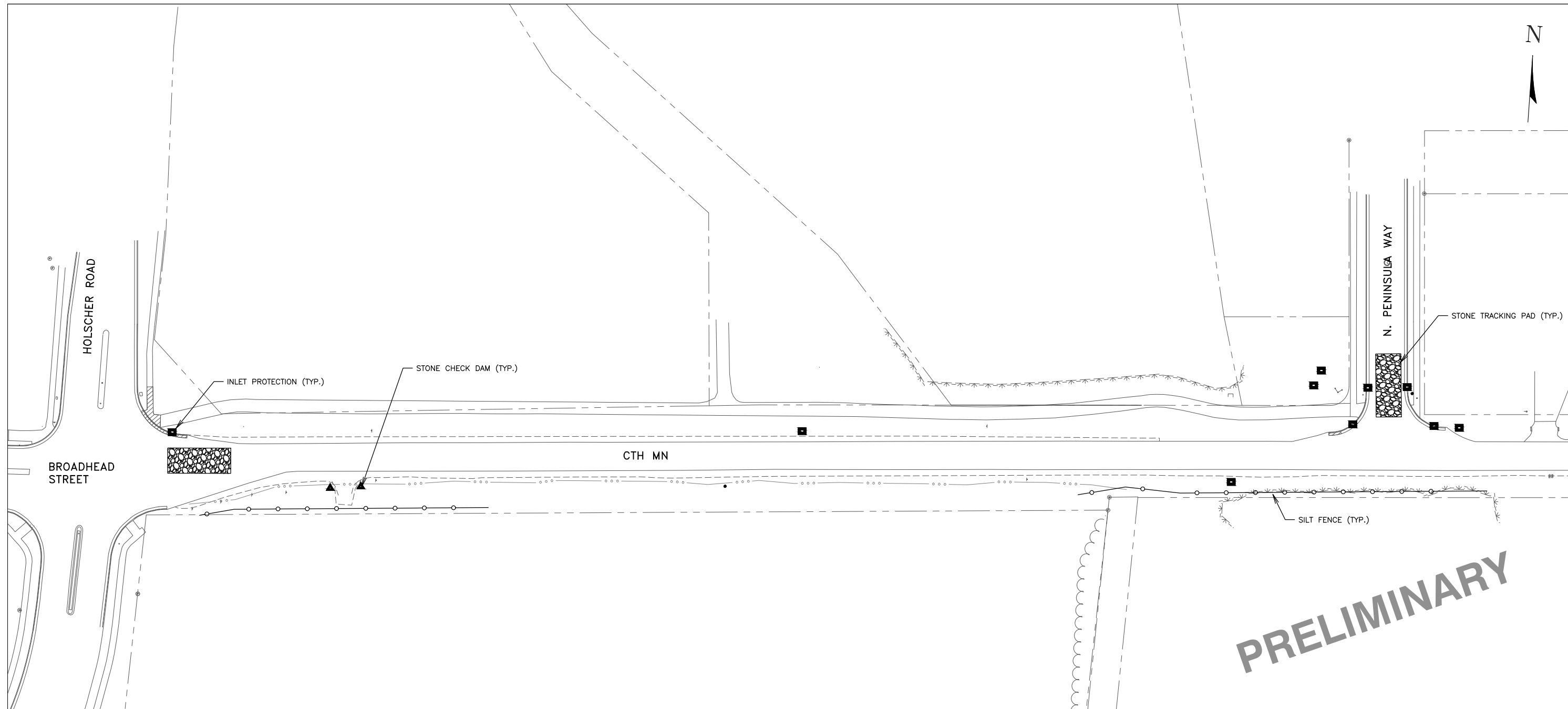
NEW ITEMS:

- 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
- Sanitary Valve
- Cleanout
- Storm Manhole
- Curb Inlet
- Circular Inlet
- Square Inlet
- Endwall
- Stump
- Decid. Tree (Relative Size Shown)
- Evergreen
- Shrub or Hedge
- Sign
- 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




PRELIMINARY

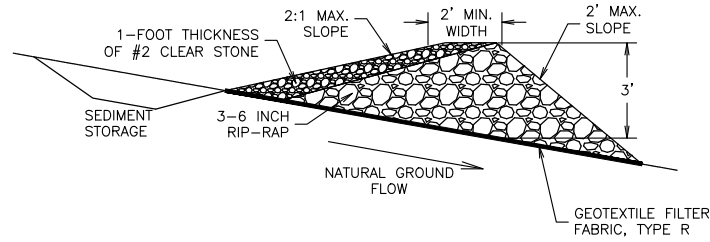
EROSION CONTROL NOTES:

- LOCATIONS MARKED WITH "■" TO RECEIVE INLET FILTER PROTECTION DURING CONSTRUCTION. ALL NEW STREET INLETS MUST ALSO RECEIVE INLET FILTER PROTECTION.
- CONSTRUCT A STONE CHECK DAM IN GUTTER LINE AT ALL LOCATIONS MARKED WITH "▲"
- SURFACE FLOW DIRECTION IS INDICATED WITH 
- SILT FENCE INSTALLATION IS INDICATED WITH 
- 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).

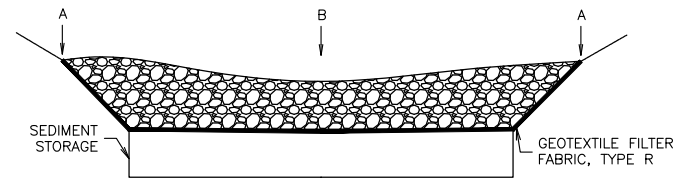
- INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
- STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE 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 OWNER. SEPARATE SWEEPED 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.
- 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.
- 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.

PROJECT NO.:	MC 174
DRAWING FILE:	MC 174 SHEETS.DWG
DRAWN BY:	J.R.K.
CHECKED BY:	N.R.B.
DATE:	10-29-20
REVISIONS:	
SCALE:	
	
SHEET:	1

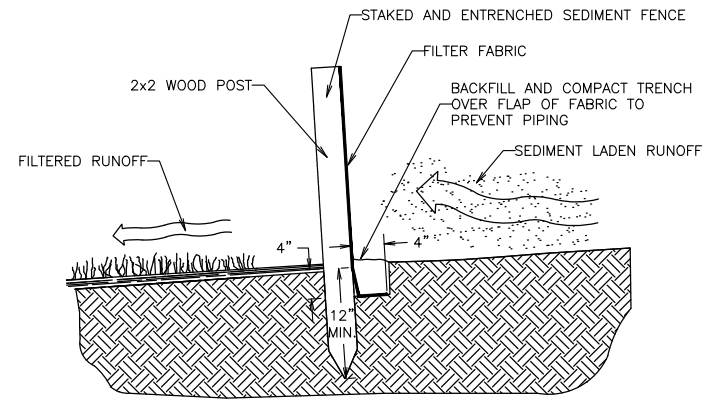


SECTION VIEW

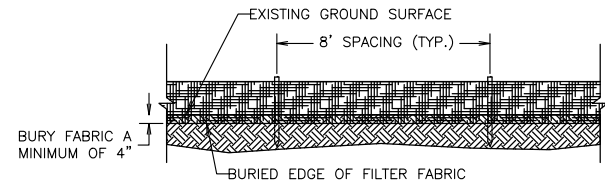


FRONT VIEW

DETAIL
STONE CHECK DAM

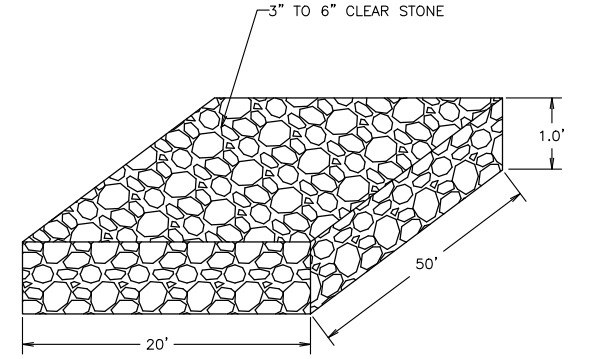


CROSS-SECTION OF A PROPERLY INSTALLED SEDIMENT FENCE



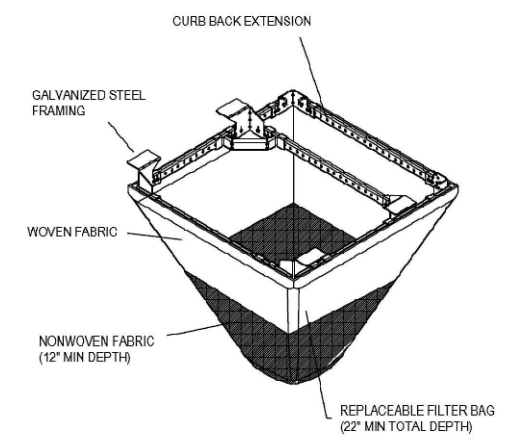
SEDIMENT FENCE DETAIL

DETAIL
SEDIMENT FENCE

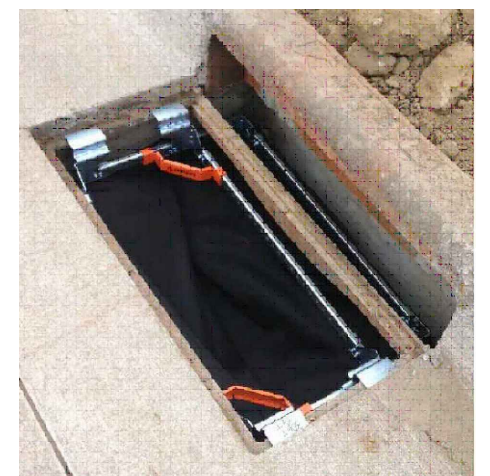


NOTE:
- ON STREET SURFACES
CRUSHED AGGREGATE BASE STONE
SERVES AS TRACKING PAD.

DETAIL
CLEAR STONE TRACKING PAD



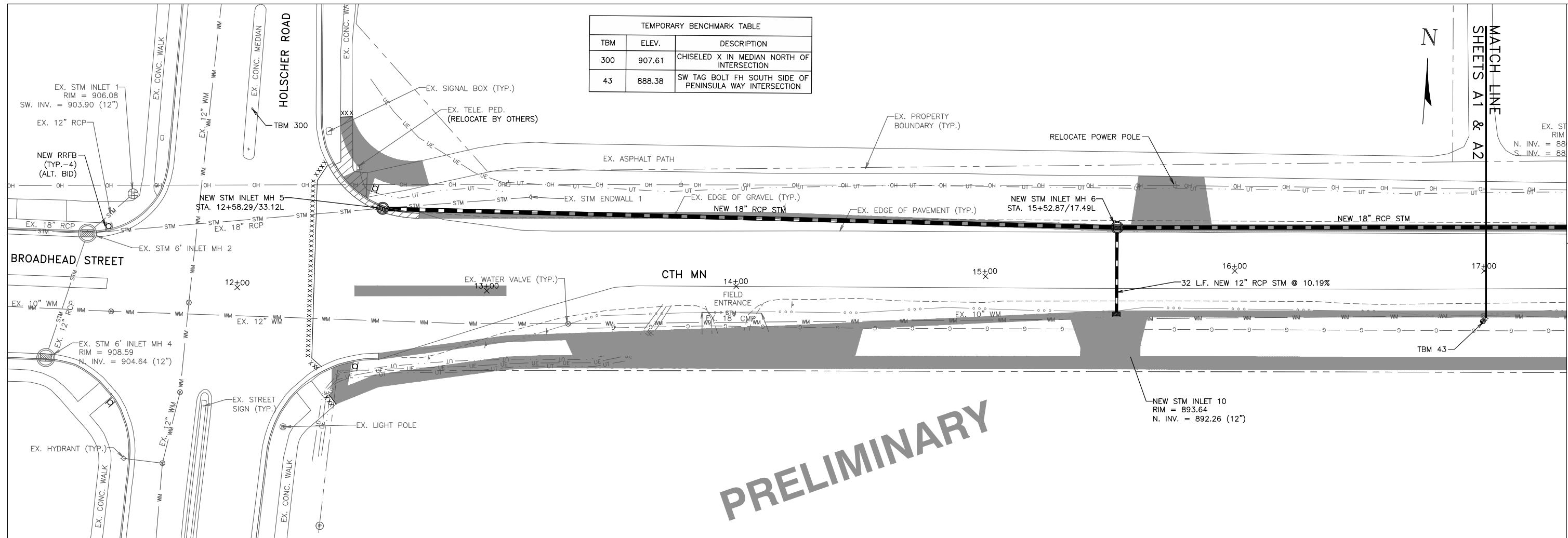
GENERAL NOTES:
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
FRAMED INLET PROTECTION SHALL BE COMPLIANT WITH ALL ASTM STANDARD D8057-17 REQUIREMENTS, INCLUDING:
A. BYPASS OVERFLOW THAT MEETS OR EXCEEDS INLET DESIGN FLOW
B. FRAME AND BAG STRONG ENOUGH TO HANDLE FULL SEDIMENT LOAD.



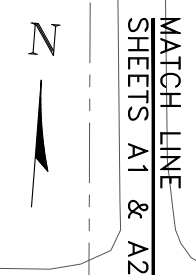
INSTALLATION NOTES:
NO PART OF INLET PROTECTION SHALL BE PROJECTING ABOVE THE GRATE.
FOR COMBINATION INLETS, PROTECTION SHALL CAPTURE RUNOFF ENTERING BOTH GRATE AND CURB OPENING.
A DUAL FABRIC FILTER BAG, WITH NON-WOVEN BOTTOM AND WOVEN TOP SHALL BE USED.
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, 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 MINIMUM OF 4" FROM THE BOTTOM OF THE BAG.

DETAIL
INLET PROTECTION - FRAMED (W/ CURB BOX)

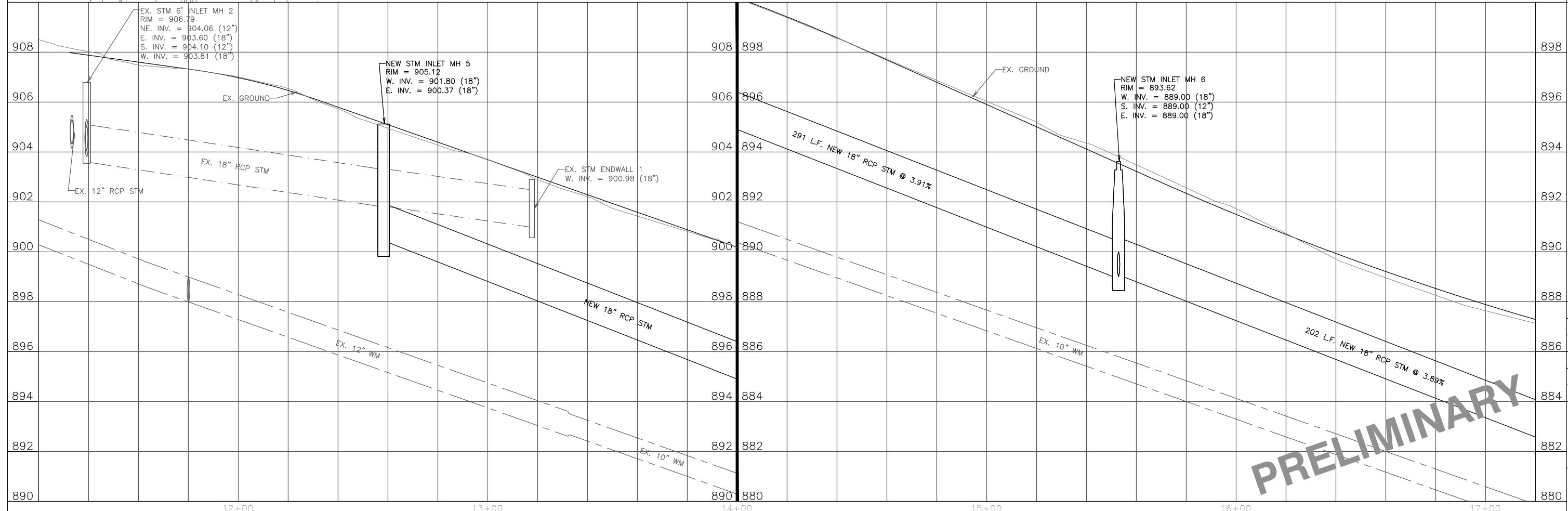
PRELIMINARY



TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
300	907.61	CHISELED X IN MEDIAN NORTH OF INTERSECTION
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION



PRELIMINARY



PRELIMINARY

2912 Marketplace Drive
 Suite 103
TOWN & COUNTRY ENGINEERING, INC.
 Madison, WI 53719
 (608) 273-3350
 www.tcengineers.net

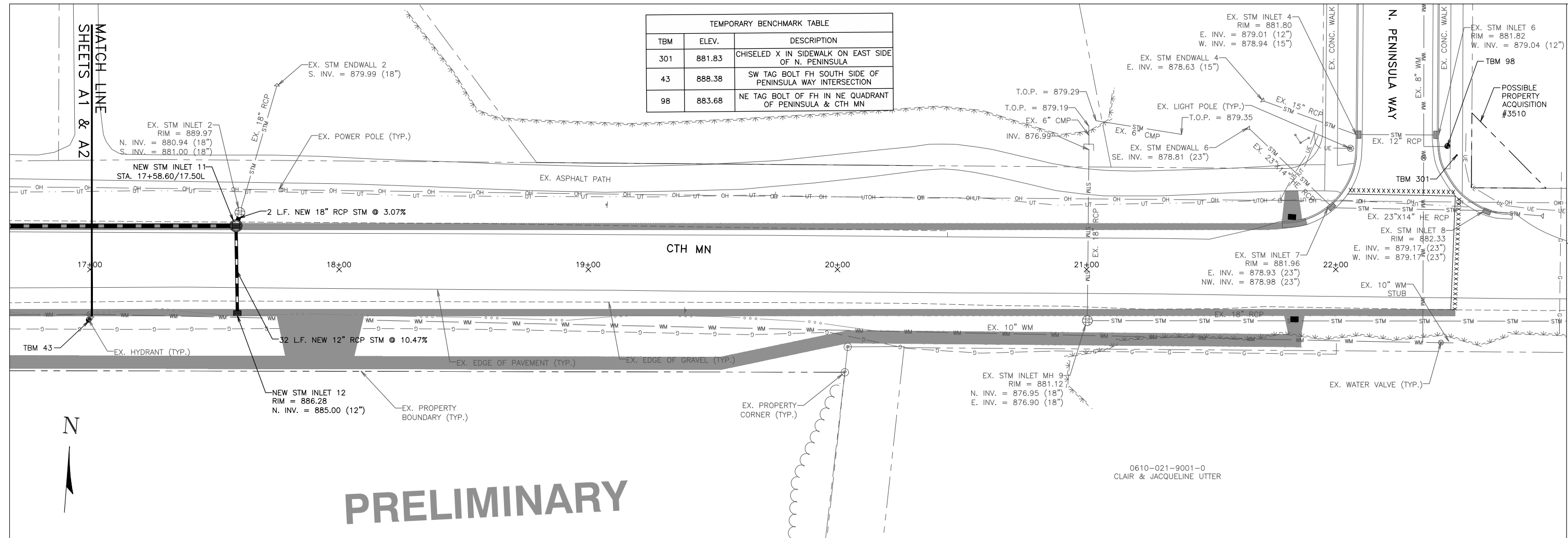
PLAN & PROFILE
 CTH MN
 Station 11+20 To Station 17+20

2021 CTH MN/BROADHEAD STREET
 UTILITY AND STREET IMPROVEMENTS
 Village of McFarland, Wisconsin

PROJECT NO.:	MC 174
DRAWING FILE:	MC 174 SHEETS.DWG
DRAWN BY:	J.R.K.
CHECKED BY:	N.R.B.
DATE:	10-29-20
REVISIONS:	
SCALE: HORIZONTAL	0 5 10 20
SCALE: VERTICAL	1" = 4'
SHEET:	A1

MATCH LINE
SHEETS A1 & A2

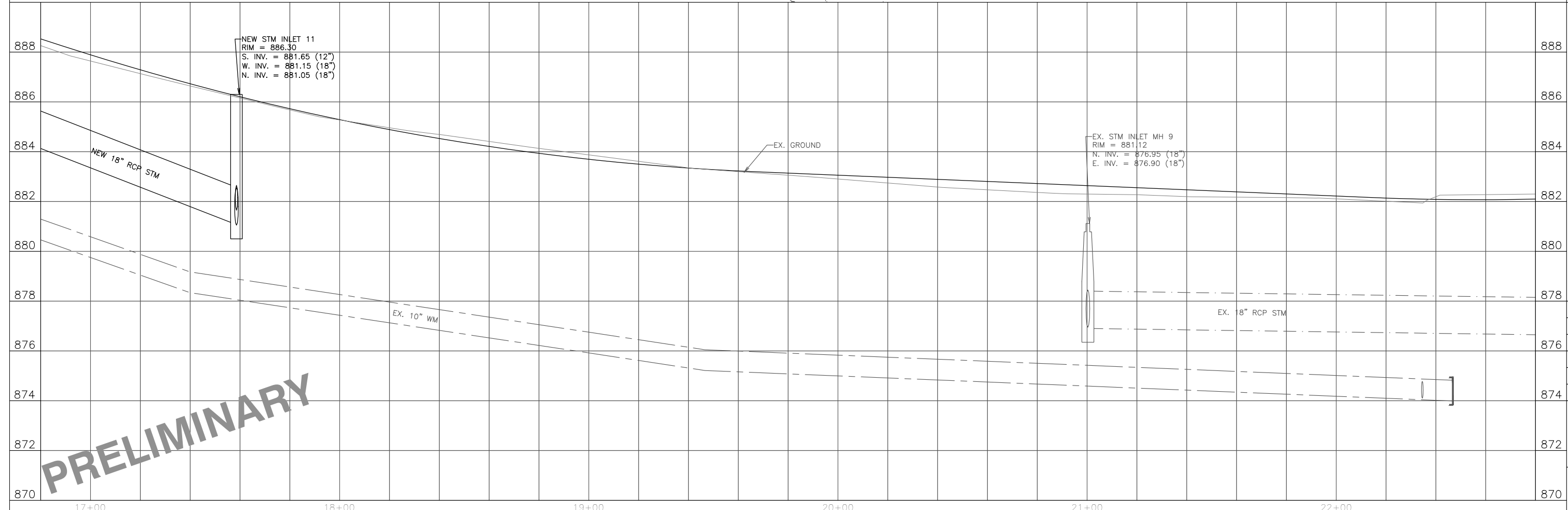
TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
301	881.83	CHISELED X IN SIDEWALK ON EAST SIDE OF N. PENINSULA
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION
98	883.68	NE TAG BOLT OF FH IN NE QUADRANT OF PENINSULA & CTH MN



PRELIMINARY



0610-021-9001-0
CLAIR & JACQUELINE UTTER



PRELIMINARY

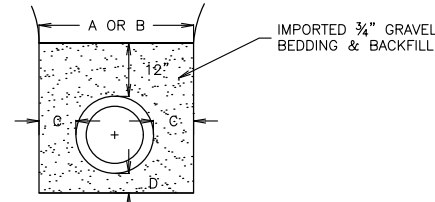
2912 Marketplace Drive
 Suite 103
TOWN & COUNTRY
 ENGINEERING, INC.
 Madison, WI 53719
 (608) 273-3350
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PLAN & PROFILE
 CTH MN
 Station 16+80 To Station 22+80

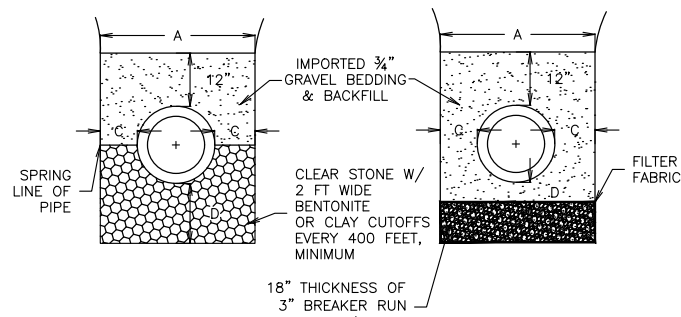
2021 CTH MN/BROADHEAD STREET
 UTILITY AND STREET IMPROVEMENTS
 Village of McFarland, Wisconsin

PROJECT NO.:	MC 174
DRAWING FILE:	MC 174 SHEETS.DWG
DRAWN BY:	J.R.K.
CHECKED BY:	N.R.B.
DATE:	10-29-20
REVISIONS:	
SCALE: HORIZONTAL	1" = 20'
SCALE: VERTICAL	1" = 5'
SHEET:	A2

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.

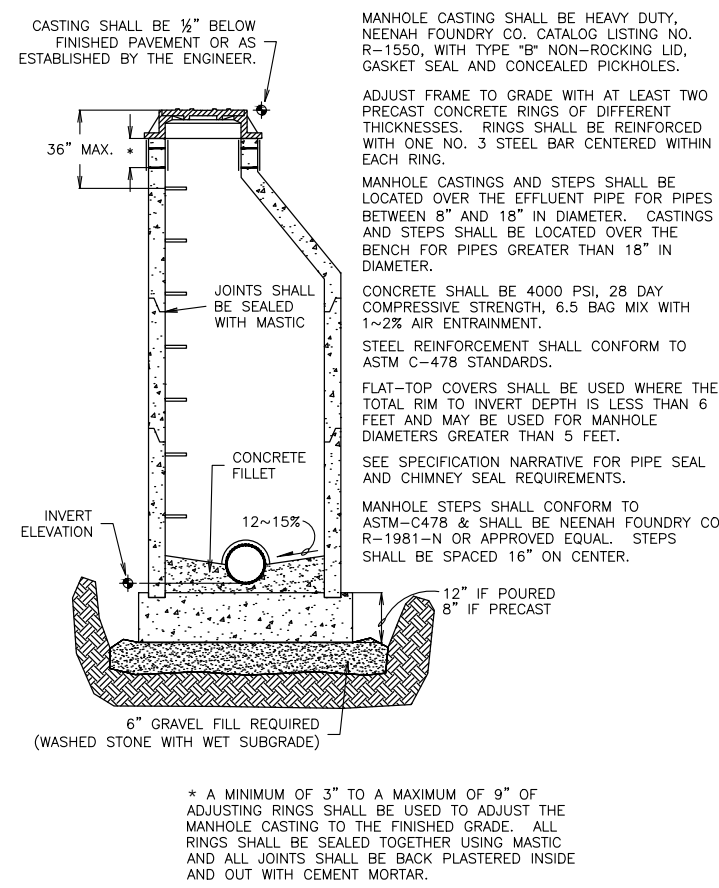


NORMAL PIPE TRENCH



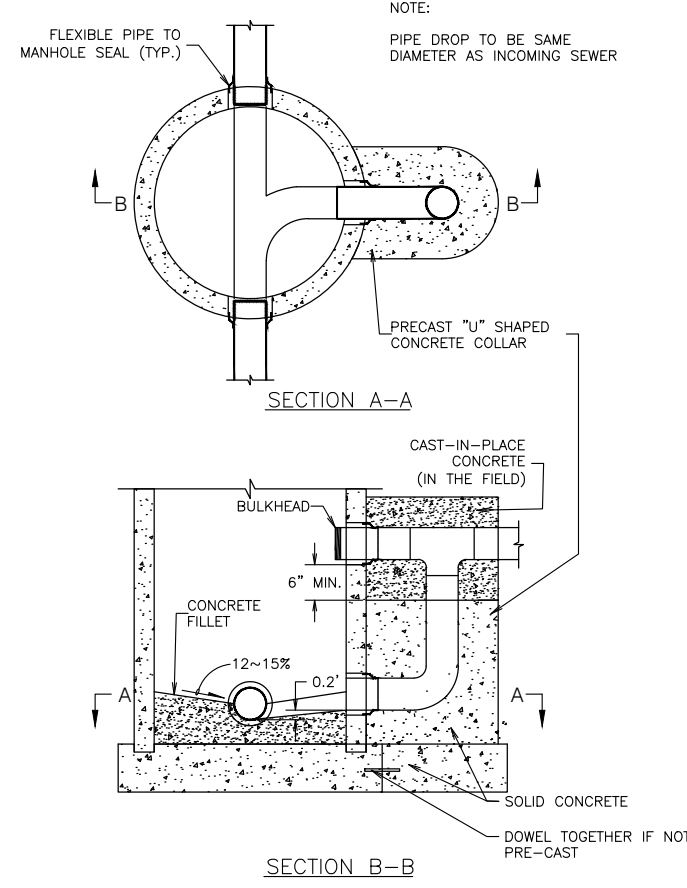
WET TRENCH WITH SUMP DEWATERING
 UNSTABLE TRENCH

DETAIL
 TRENCH WIDTH AND BEDDING

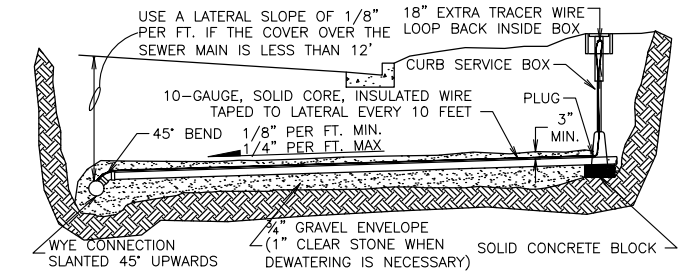


* A MINIMUM OF 3" TO A MAXIMUM OF 9" OF ADJUSTING RINGS SHALL BE USED TO ADJUST THE MANHOLE CASTING TO THE FINISHED GRADE. ALL RINGS SHALL BE SEALED TOGETHER USING MASTIC AND ALL JOINTS SHALL BE BACK PLASTERED INSIDE AND OUT WITH CEMENT MORTAR.

DETAIL
 MANHOLE

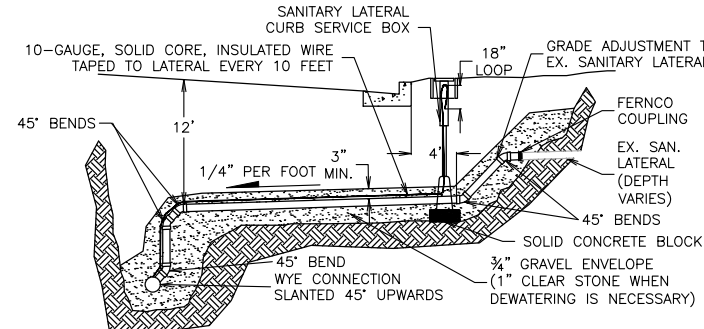


DETAIL
 DROP MANHOLE ENTRANCE



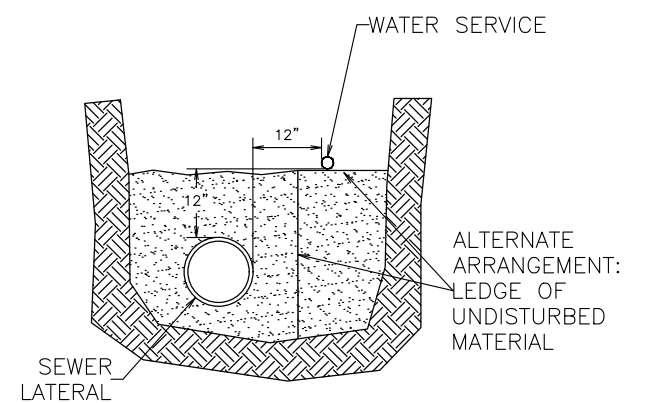
STANDARD INSTALLATION

- NOTES:
- CONSTRUCT LATERALS IN CONFORMANCE WITH CHAPTER SPS 382 OF THE WISCONSIN ADMINISTRATIVE CODE.
 - LATERAL SLOPE SHALL BE 1/4" PER FOOT WHERE SUFFICIENT COVER EXISTS.
 - CONTRACTOR SHALL VERIFY SIZE, DEPTH, AND LOCATION OF EXISTING LATERALS.
 - WHERE LATERALS ARE NOT IMMEDIATELY CONNECTED TO BUILDING SEWERS THE ENDS OF THE LATERALS SHALL BE MARKED BY POSITIONING 4"x4" BOARDS VERTICALLY FROM THE ENDS OF THE LATERALS TO AT LEAST 2' ABOVE THE GROUND SURFACE.
 - THE LOCATION OF ALL SEWER LATERALS CROSSING UNDER THE CURB & GUTTER SHALL BE MARKED BY STAMPING AN "S" IN THE TOP OF THE CURB OVER THE LOCATION OF THE SEWER LATERAL.



INSTALLATION WITH VERTICAL RISER

DETAIL
 SANITARY SEWER LATERAL

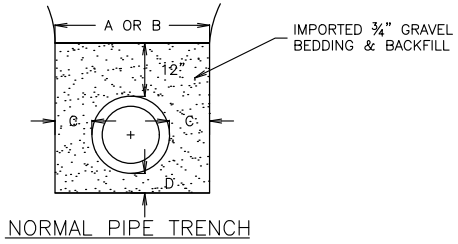


ALTERNATE ARRANGEMENT:
 LEDGE OF UNDISTURBED MATERIAL

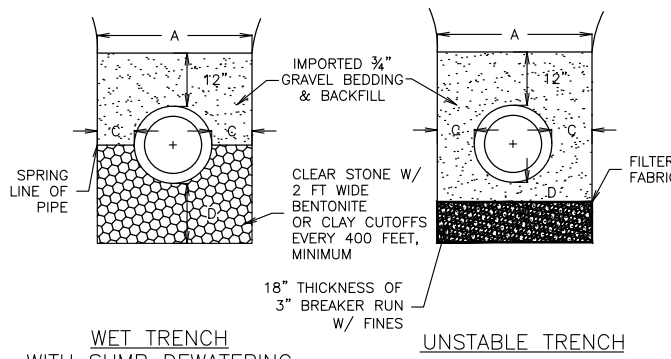
DETAIL
 JOINT TRENCH INSTALLATION

PRELIMINARY

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.
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 C: MINIMUM - 6"
 D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL.

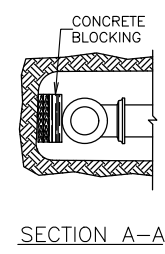
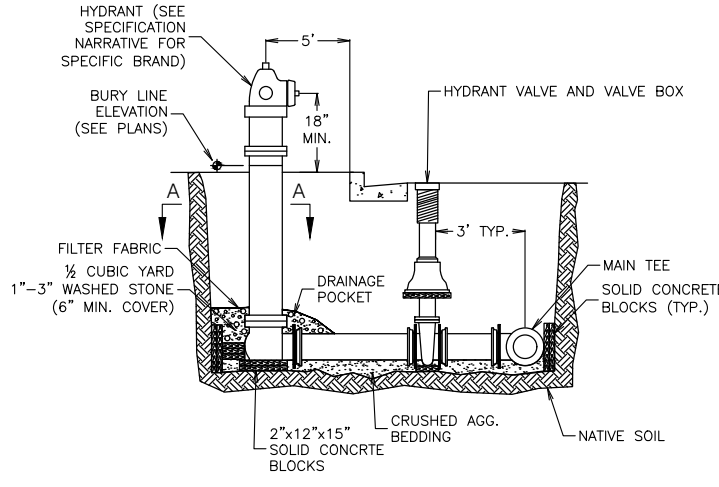


NORMAL PIPE TRENCH



WET TRENCH WITH SUMP DEWATERING UNSTABLE TRENCH

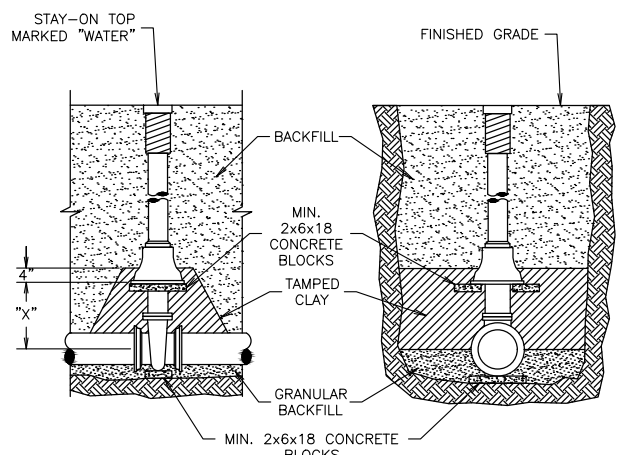
DETAIL TRENCH WIDTH AND BEDDING



SECTION A-A

NOTES:
 - THE HYDRANT AND HYDRANT VALVE SHALL BE CONNECTED TO THE MAIN TEE BY MEGALUGS.
 - 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.

DETAIL HYDRANT SETTING

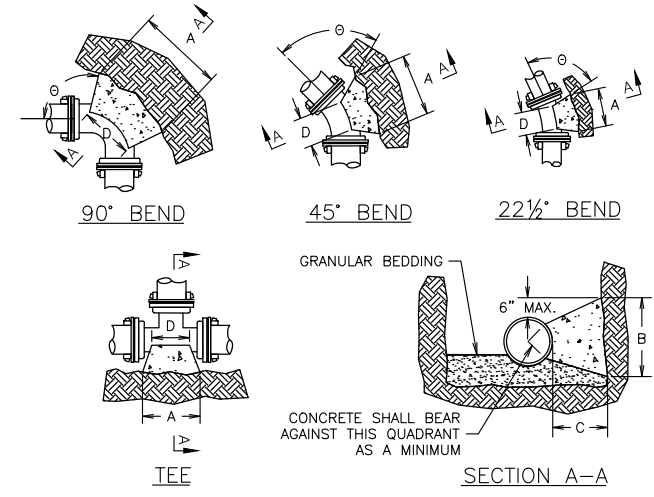


VIEW ALONG PIPELINE SECTION VIEW

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

NOTES:
 - SOLID CONCRETE BLOCKS MUST BE USED.
 - VALVES SHALL BE SECURED WITH RODDING OR MEGALUGS TO THE NEAREST "TEE" FITTING OR TO THE FIRST JOINT CONNECTING A FULL SECTION OF WATER MAIN PIPE. SEE RODDING DETAIL "OFFSET AND RODDING".

DETAIL VALVE BOX SETTING



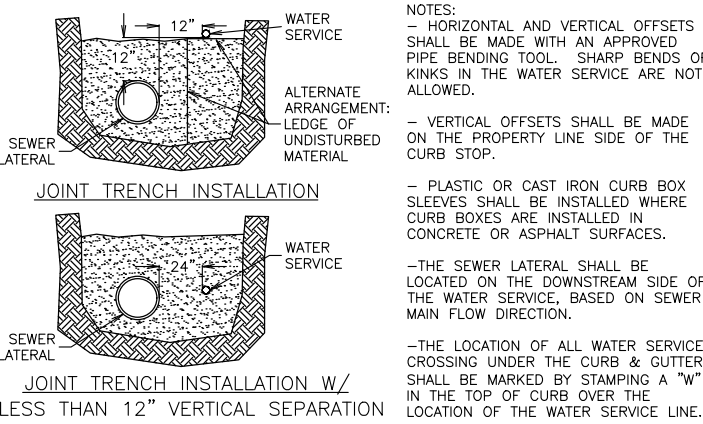
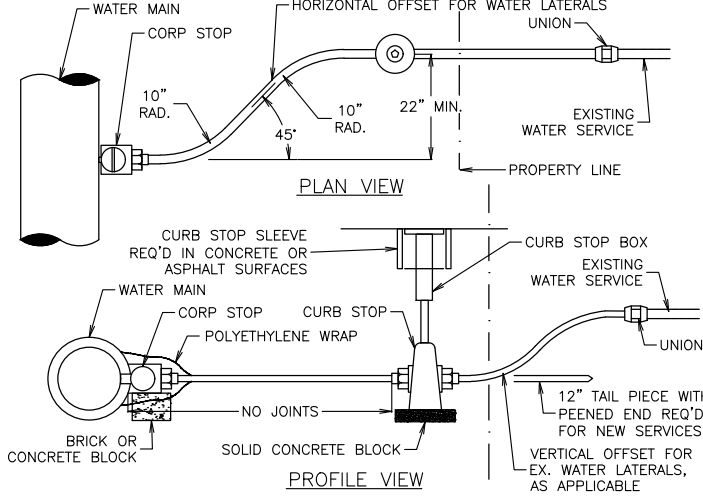
WOOD BLOCKING MAY NOT BE USED. ONLY SOLID CONCRETE BLOCKS ARE ALLOWED.
 DIMENSION "D" SHALL BE AS LARGE AS POSSIBLE, BUT THE CONCRETE SHALL NOT INTERFERE WITH THE MECHANICAL JOINTS.
 DIMENSION "C" SHALL BE AT LEAST 6 INCHES, AND LARGE ENOUGH TO MAKE THE "theta" ANGLE EQUAL TO OR GREATER THAN 45 DEGREES 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*	BUTTRUSS 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"

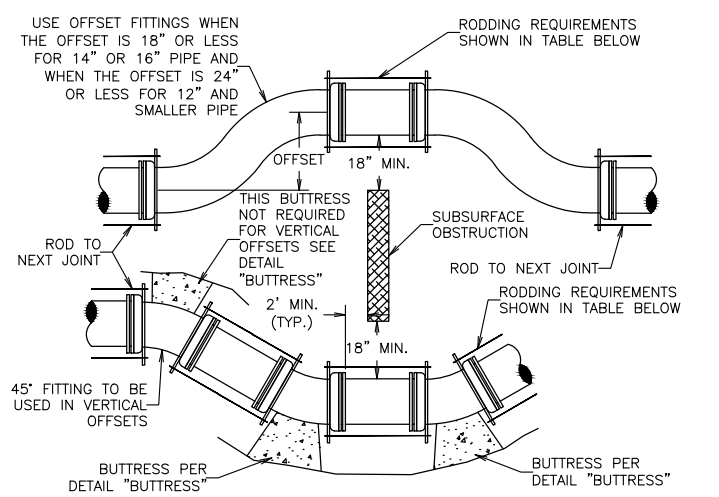
DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI AND SOIL RESISTANCE OF 2000 LBS./SQ.FT.

DETAIL BUTTRUSS



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.

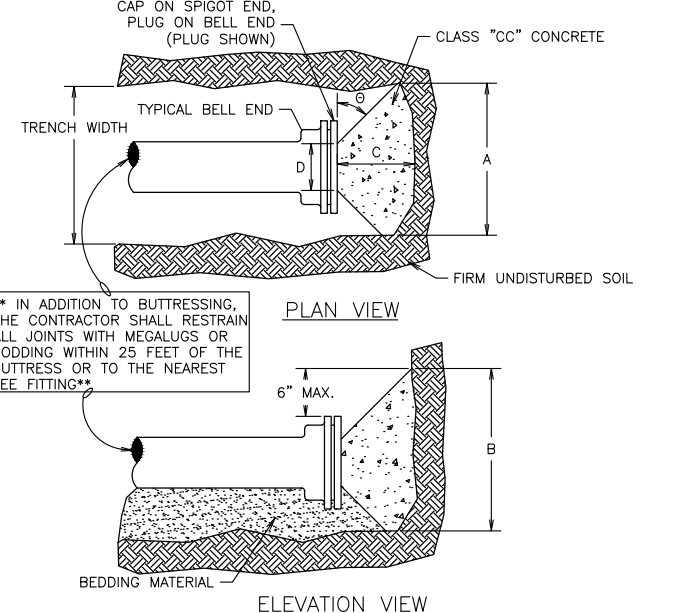
DETAIL WATER SERVICE INSTALLATION



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

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 BUTTRUSSING AS SHOWN ABOVE.
 - MEGALUG RESTRAINTS MAY BE USED IN LIEU OF RODDING.

DETAIL OFFSET AND RODDING

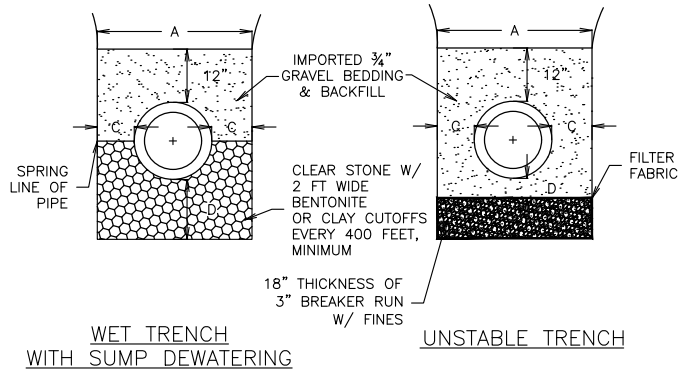
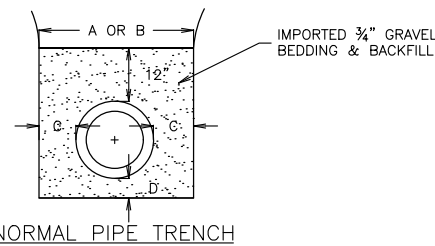


BUTTRUSS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-3"	1'-0"		
8"	1'-8"	1'-6"		
10"	2'-0"	1'-8"		
12"	2'-5"	1'-10"		
16"	3'-4"	2'-4"		
20"	4'-3"	2'-10"		
24"	5'-2"	3'-4"		
30"	6'-9"	4'-0"		

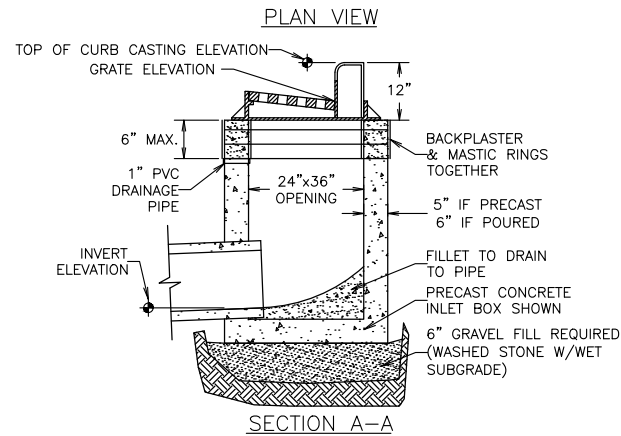
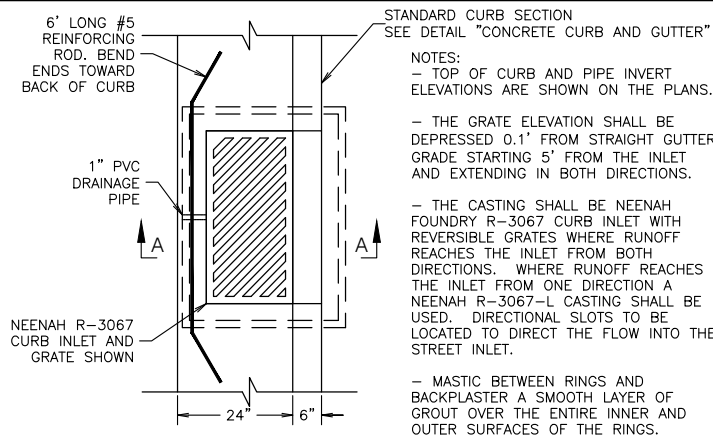
NOTES:
 - DIMENSION "C" SHALL BE LARGE ENOUGH TO MAKE ANGLE theta EQUAL TO OR GREATER THAN 45°.
 - DIMENSION "D" EQUALS APPROX. I.D. OF PIPE, LESS 2 INCHES. CONTRACTOR SHALL PROTECT THE MECH. JOINT BOLTS FROM THE CONCRETE BUTTRUSS.
 - BUTTRUSS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF 2 TONS PER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

DETAIL BUTTRUSS FOR DEAD ENDS

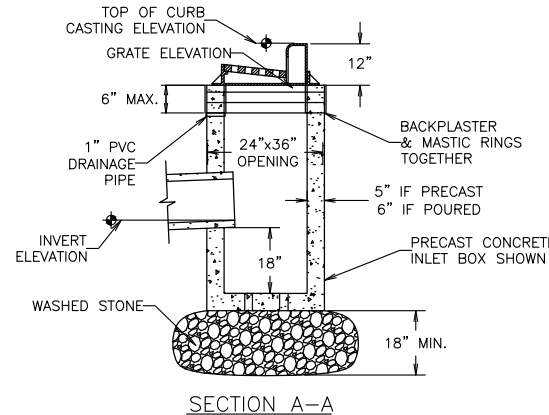
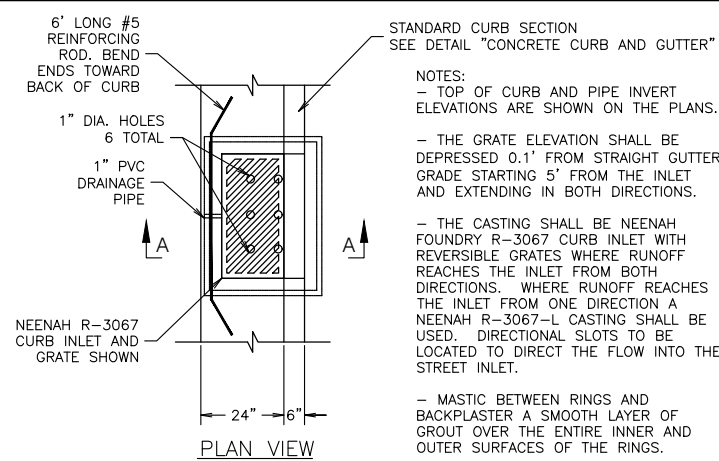
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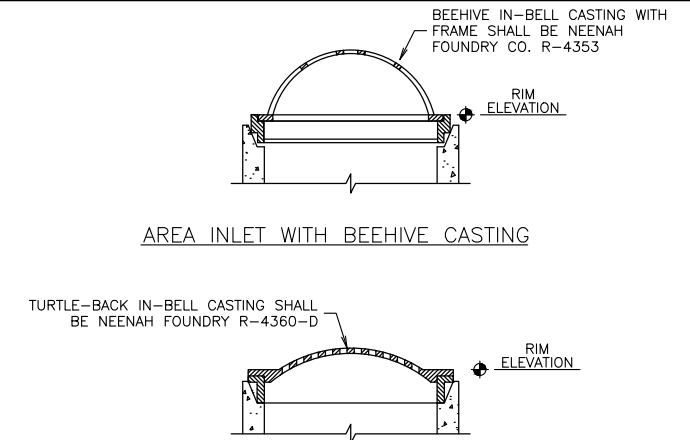
DETAIL
TRENCH WIDTH AND BEDDING



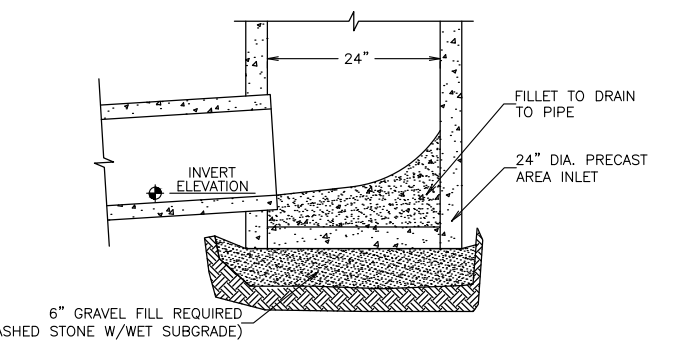
DETAIL
RECTANGULAR CURB INLET



DETAIL
RECTANGULAR CATCH BASIN

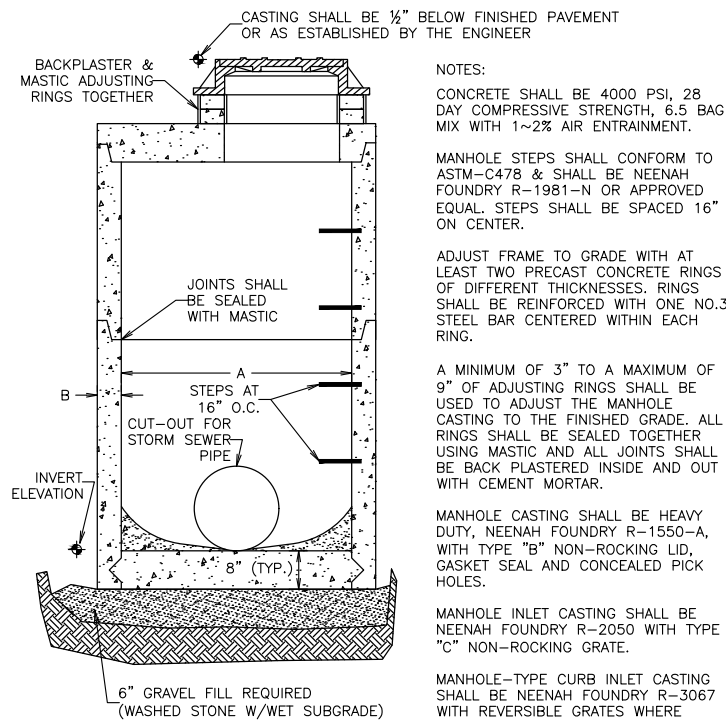


AREA INLET WITH BEEHIVE CASTING



AREA INLET WITH TURTLE-BACK CASTING

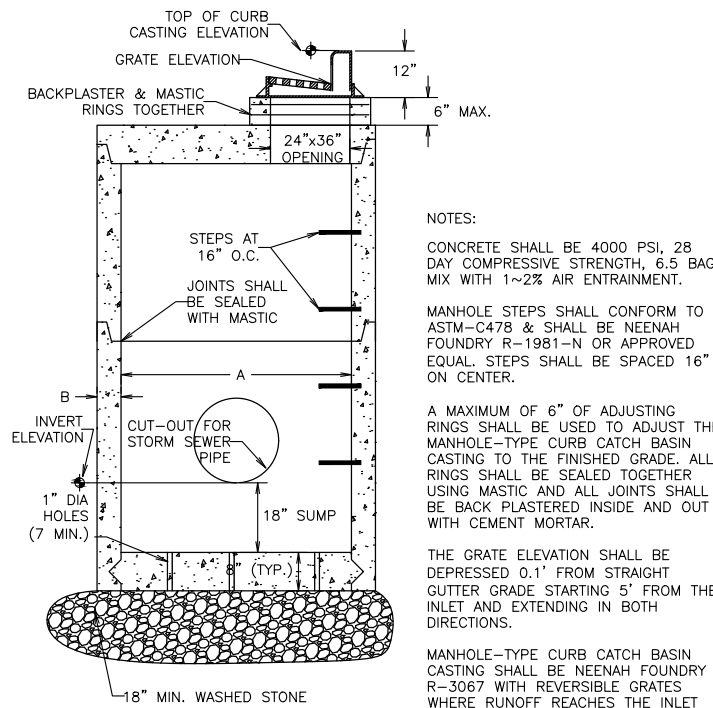
DETAIL
AREA INLET



STORM MANHOLE DIMENSIONS

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

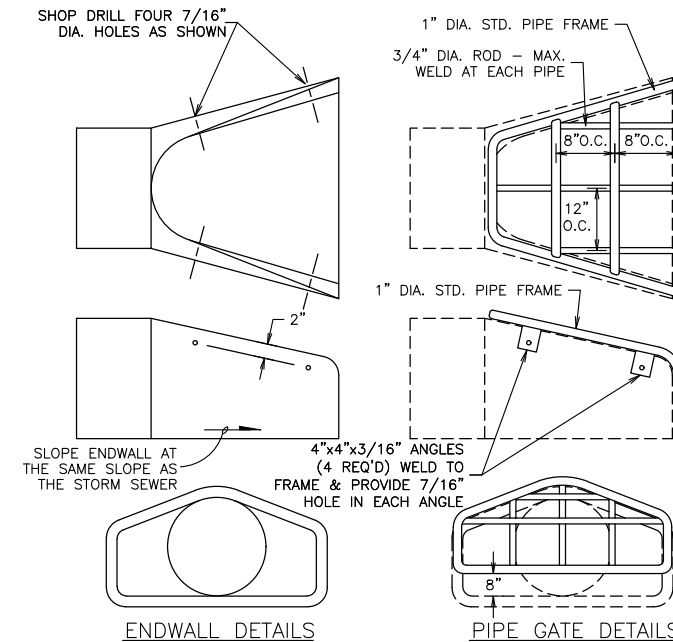
DETAIL
STORM SEWER MANHOLE AND INLET



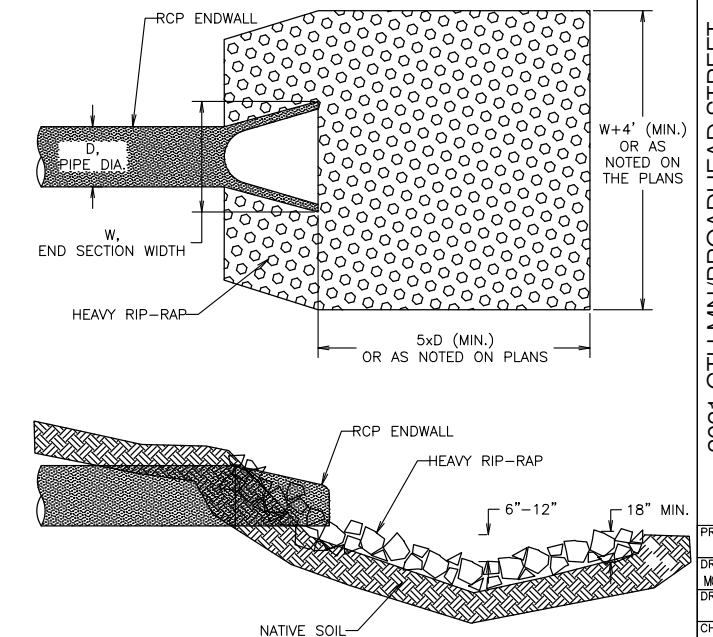
STORM MANHOLE DIMENSIONS

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DETAIL
STORM SEWER MANHOLE CATCH BASIN

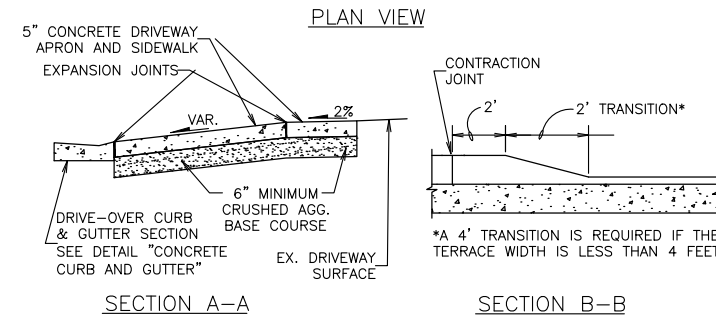
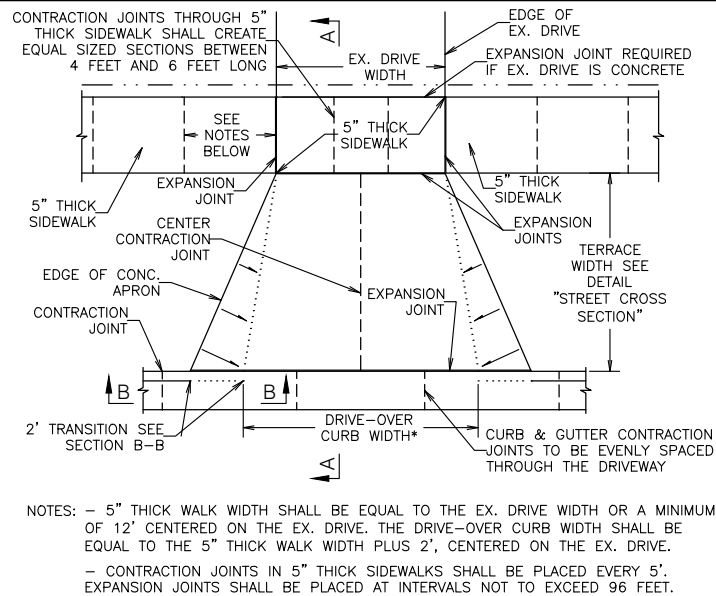


DETAIL
ENDWALLS



NOTE:
RIP-RAP SHALL BE A MINIMUM OF 2 C.Y. PER ENDWALL.

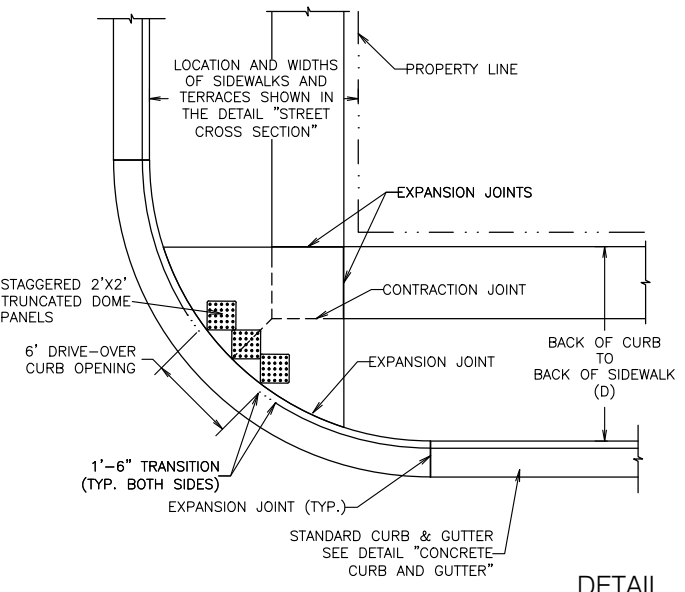
PRELIMINARY
 DETAIL
ENDWALL RIP-RAP



DETAIL DRIVEWAY

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.

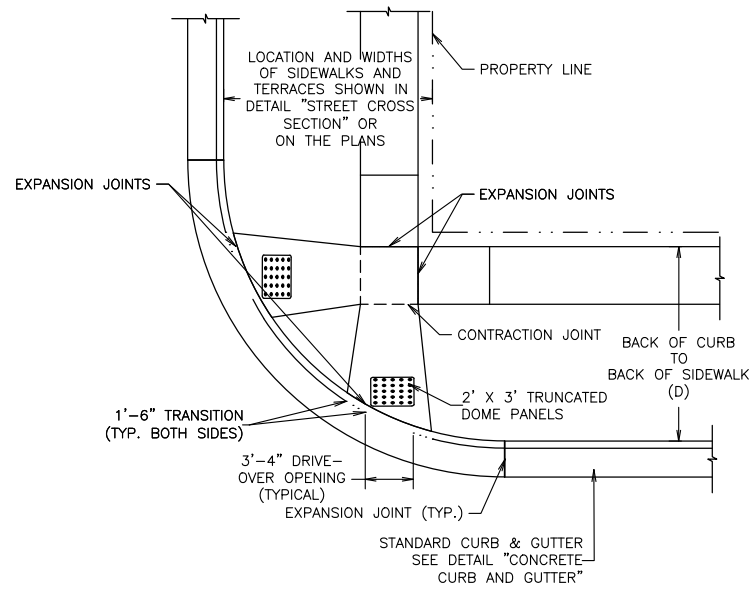


DETAIL CURB RAMP

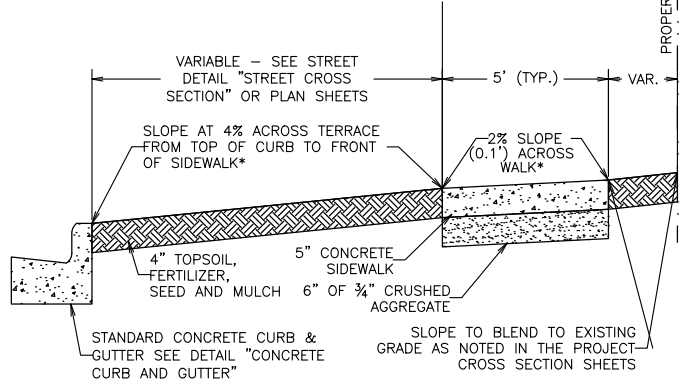
NOTES:
TRUNCATED DOME PANELS MUST TOUCH ONE CORNER TO RADIUS OF BACK OF CURB. IF MORE THAN ONE IS USED THEY MUST TOUCH OR OVERLAP. DOMES SHALL BE ALIGNED WITH CROSS WALK DIRECTION.

TYPE 2 CURB RAMP

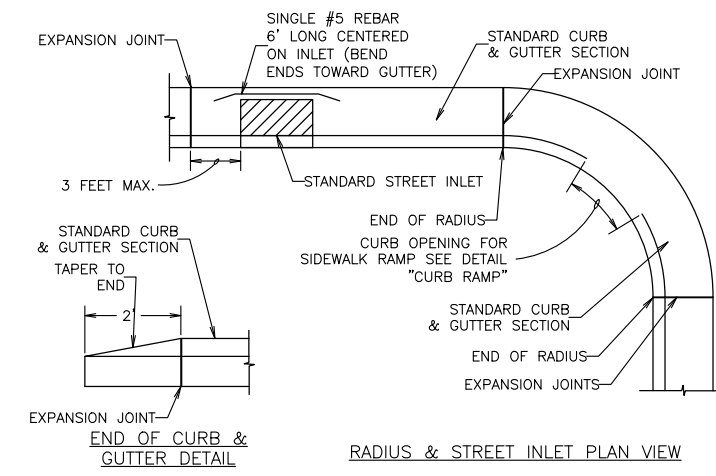
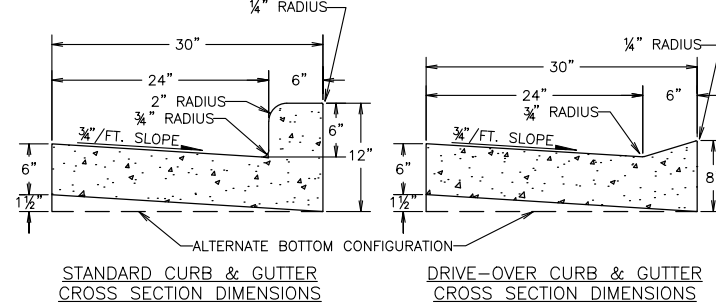
- FOR USE WHEN THE DISTANCE FROM THE BACK OF THE CURB TO THE BACK OF THE SIDEWALK (D) IS GREATER THAN OR EQUAL TO 12 FEET.



DETAIL CURB RAMP

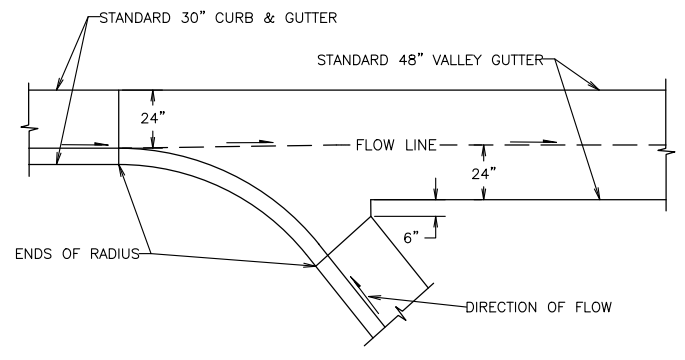


DETAIL SIDEWALK - TERRACE SECTION

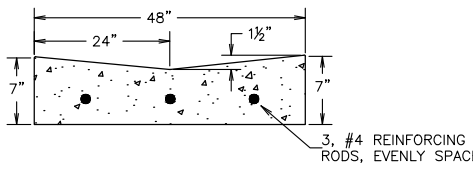


NOTES:
1.) CONTRACTION JOINTS SHALL BE PLACED EVERY 6 TO 12 FEET AND AT LOCATIONS SHOWN IN THE CURB RAMP AND DRIVEWAY DETAILS.
2.) EXPANSION JOINTS SHALL BE PLACED AT EVERY END OF RADIUS, 3 FEET ON ONE SIDE OF EACH STREET INLET AND AT INTERVALS NOT TO EXCEED 300 FEET.

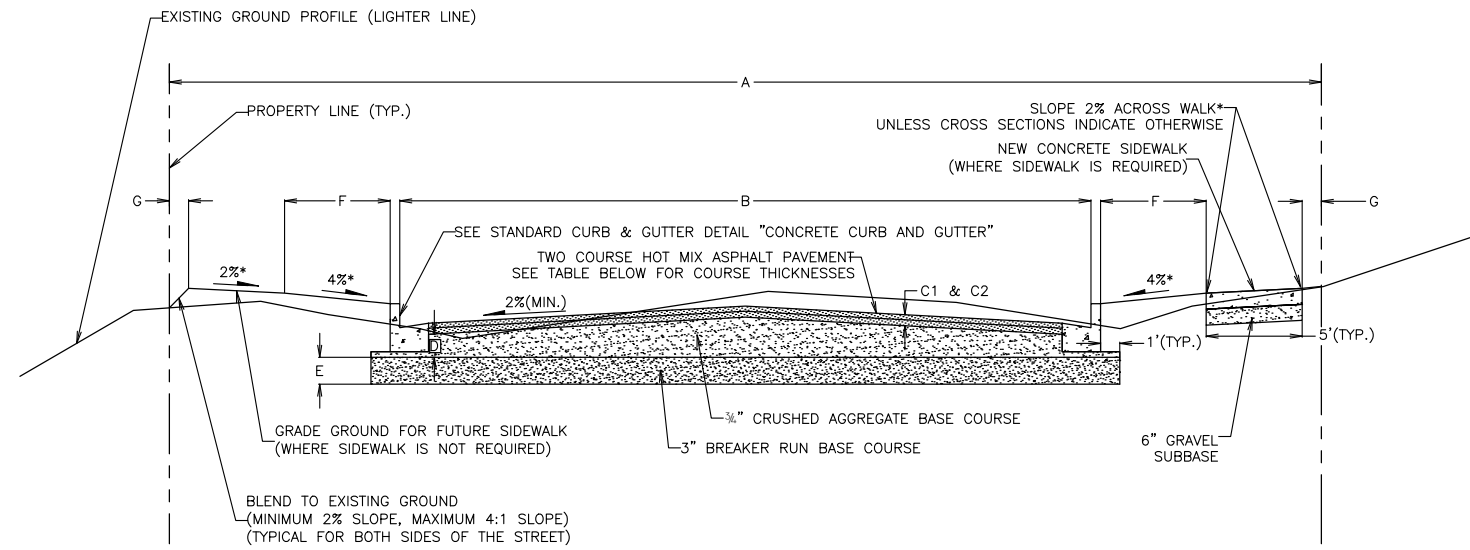
DETAIL CONCRETE CURB AND GUTTER



VALLEY GUTTER PLAN VIEW



DETAIL STANDARD VALLEY GUTTER CROSS SECTION DIMENSIONS



STANDARD STREET DETAIL DIMENSIONS

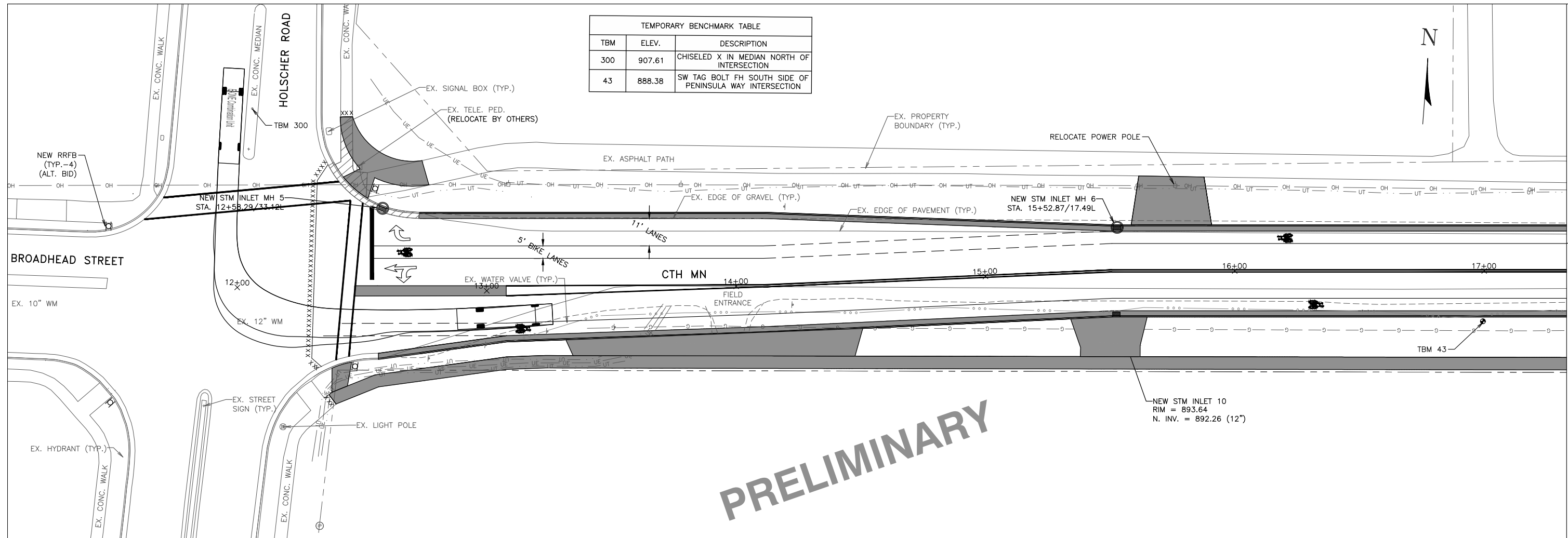
STREET NAME	A RIGHT OF WAY WIDTH	B CURB FACE TO CURB FACE WIDTH	C1 LOWER COURSE THICKNESS	C2 SURFACE COURSE THICKNESS	D C.A.B.C. THICKNESS*	E 3" BREAKER RUN B.C. THICKNESS	F TERRACE WIDTH	G BACK OF WALK TO PROP. LINE
			1 1/2"	1 1/2"	6"	6" MIN.		1'

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

NOTES:
THE CROWN OF THE ROAD SHALL BE CREATED USING THE 3/4" CRUSHED AGGREGATE BASE COURSE. THE THICKNESS (HC) 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 THE BASE CONDITIONS.

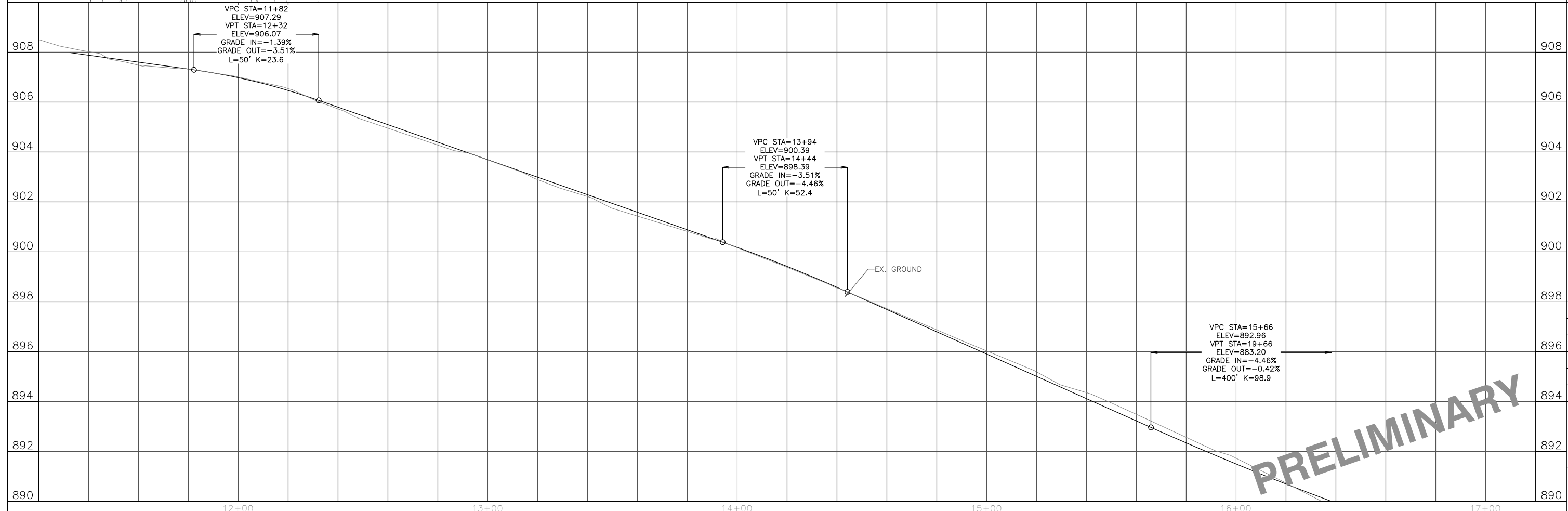
DETAIL STREET CROSS SECTION

PRELIMINARY



TEMPORARY BENCHMARK TABLE		
TBM	ELEV.	DESCRIPTION
300	907.61	CHISELED X IN MEDIAN NORTH OF INTERSECTION
43	888.38	SW TAG BOLT FH SOUTH SIDE OF PENINSULA WAY INTERSECTION

PRELIMINARY



PRELIMINARY

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Suite 103
Madison, WI 53719
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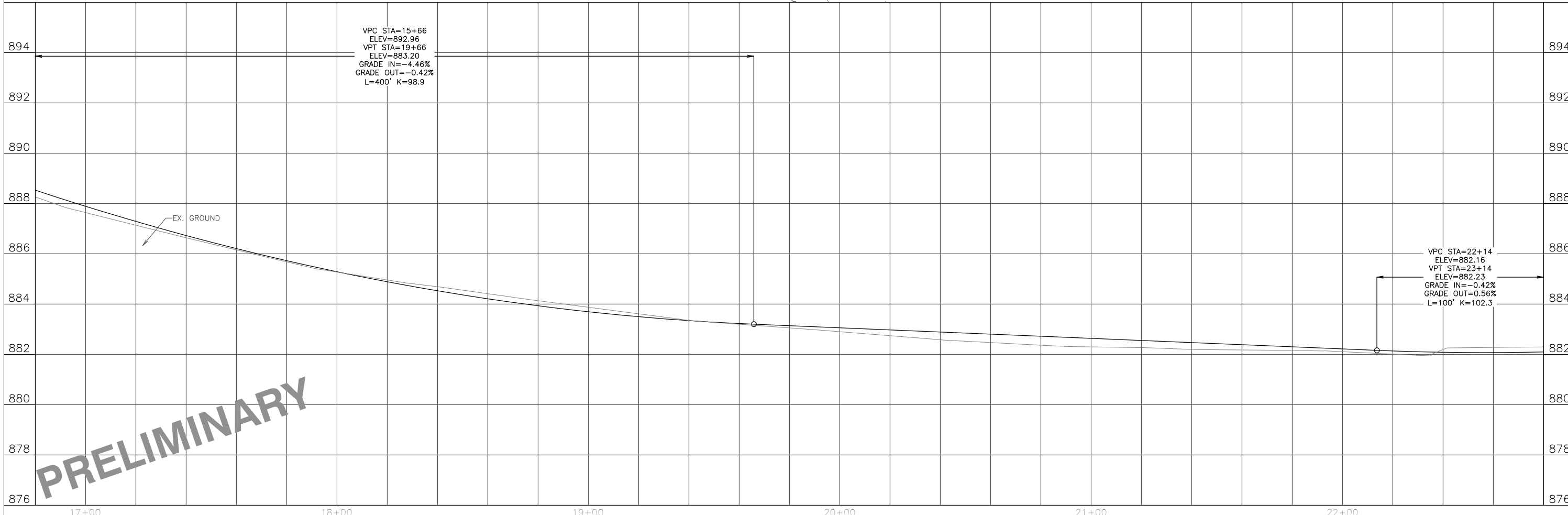
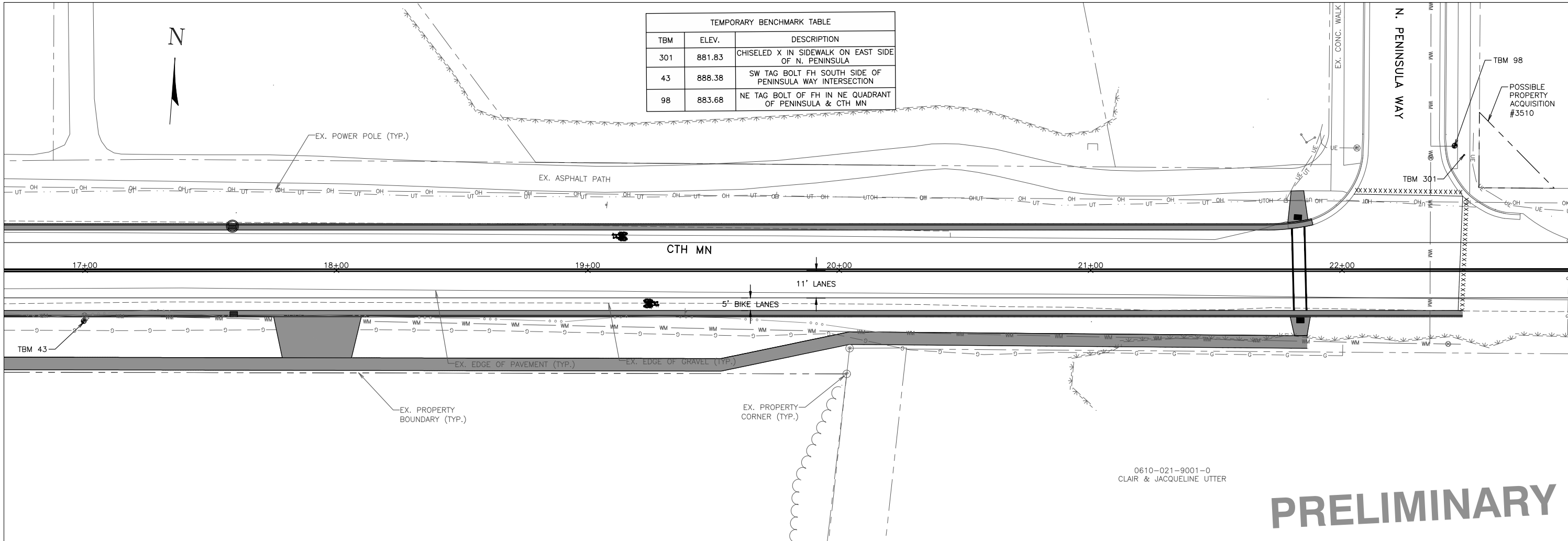
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Village of McFarland, Wisconsin

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REVISIONS:	

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

SHEET: **B1**

Page 17 of 40



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Station 16+80 To Station 22+80

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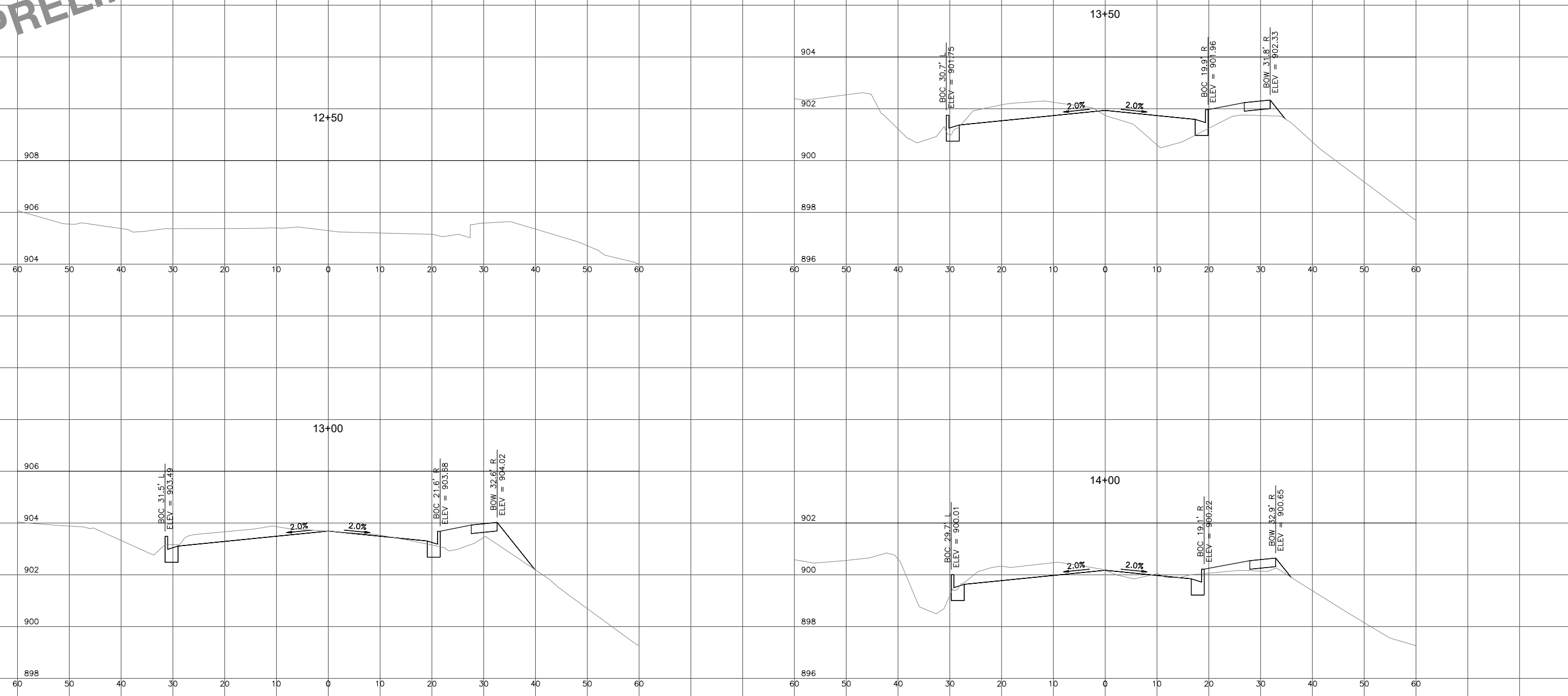
PROJECT NO.: MC 174
DRAWING FILE: MC 174 SHEETS.DWG
DRAWN BY: J.R.K.
CHECKED BY: N.R.B.
DATE: 10-29-20
REVISIONS:

SCALE: HORIZONTAL 1"=20'
VERTICAL 1"=5'
SHEET: B2

Page 18 of 40

PRELIMINARY

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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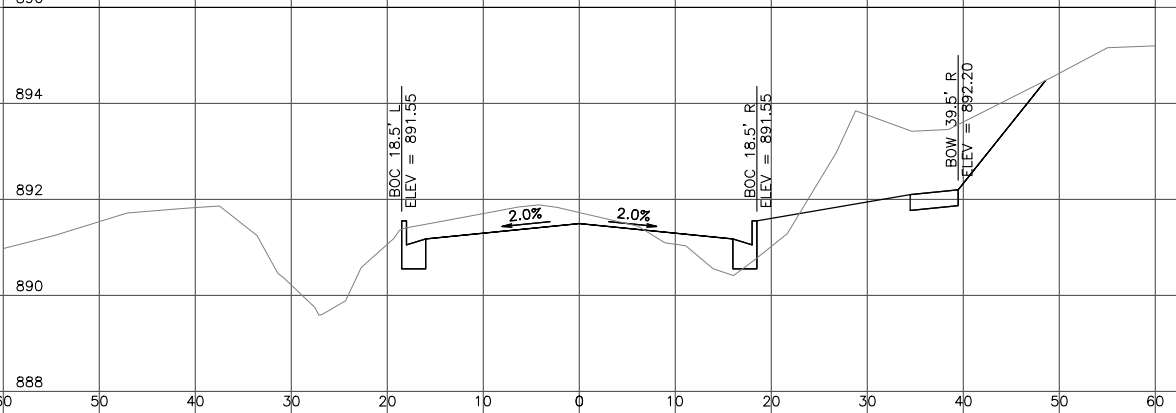
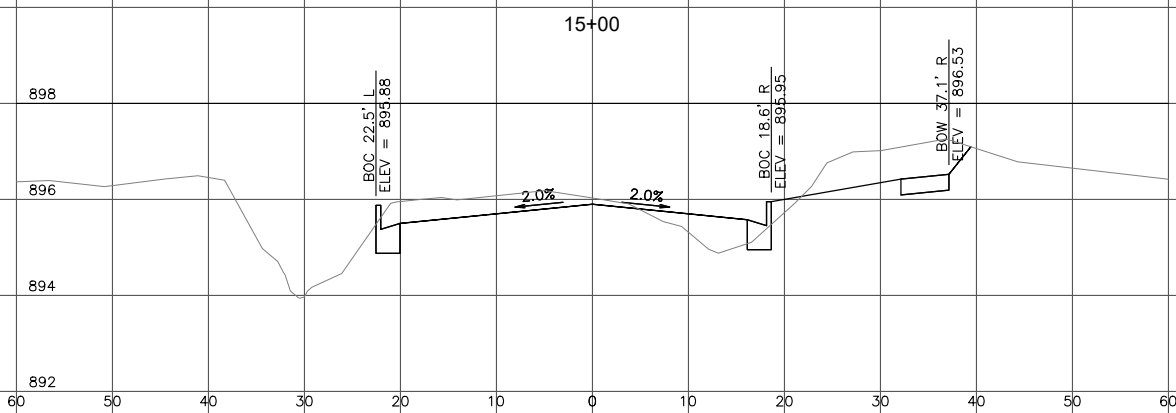
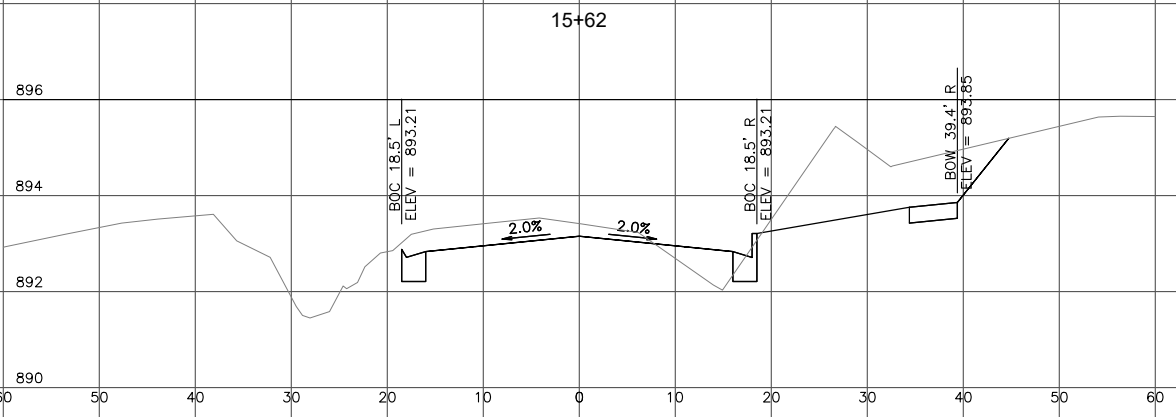
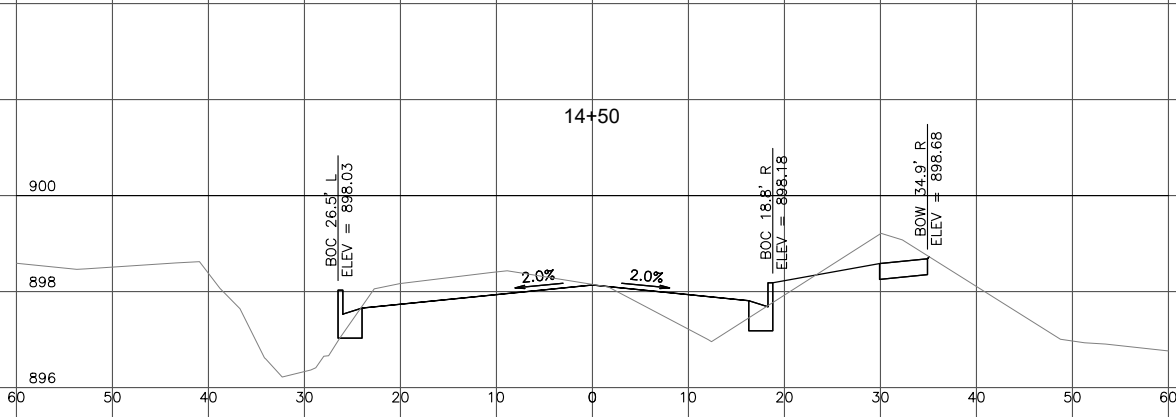
CROSS SECTIONS
 CTH MN
 Station X+XX To Station X+XX

2021 CTH MN/BROADHEAD STREET
 UTILITY AND STREET IMPROVEMENTS
 Village of McFarland, Wisconsin

PROJECT NO.:	MC 174
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DATE:	10-29-20
REVISIONS:	
SCALE: HORIZONTAL	1" = 20'
SCALE: VERTICAL	1" = 2'
SHEET:	X1

PRELIMINARY

EXISTING CONTOURS ARE DENOTED BY LIGHTER LINES.
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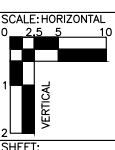


CROSS SECTIONS
CTH MN
Station X+XX To Station X+XX

2021 CTH MN/BROADHEAD STREET
UTILITY AND STREET IMPROVEMENTS
Village of McFarland, Wisconsin

PROJECT NO.: MC 174
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DATE: 10-29-20
REVISIONS:



SHEET: X2

PRELIMINARY

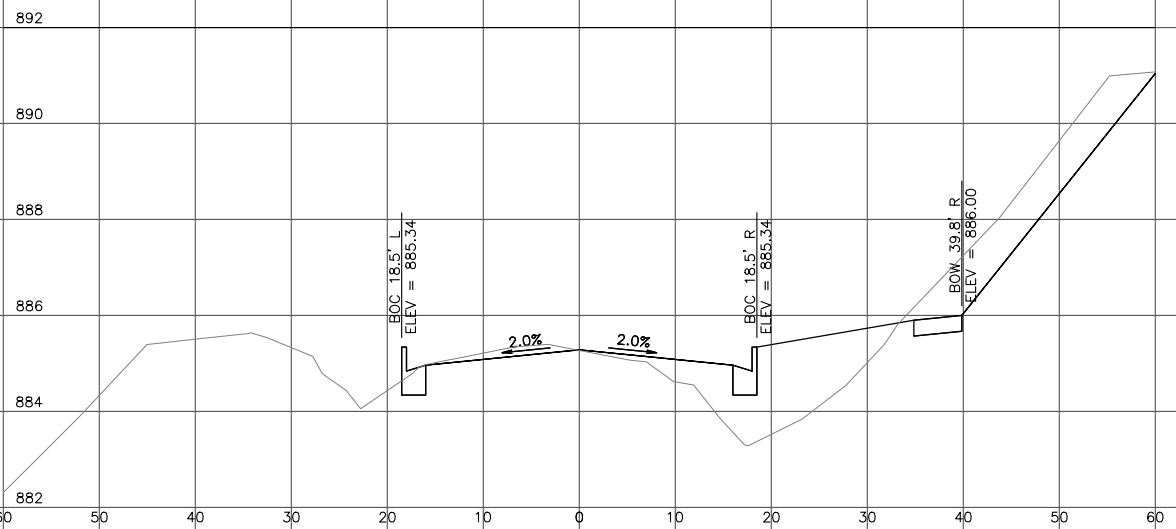
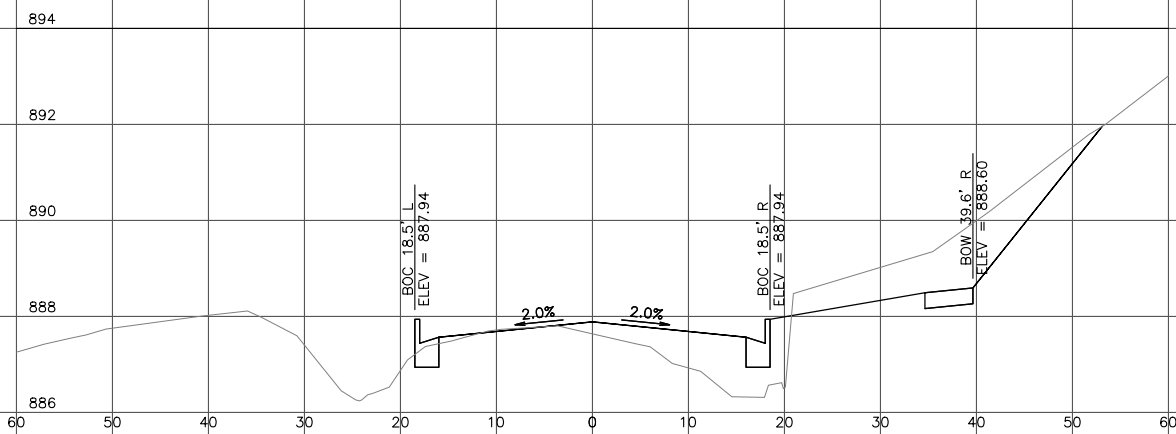
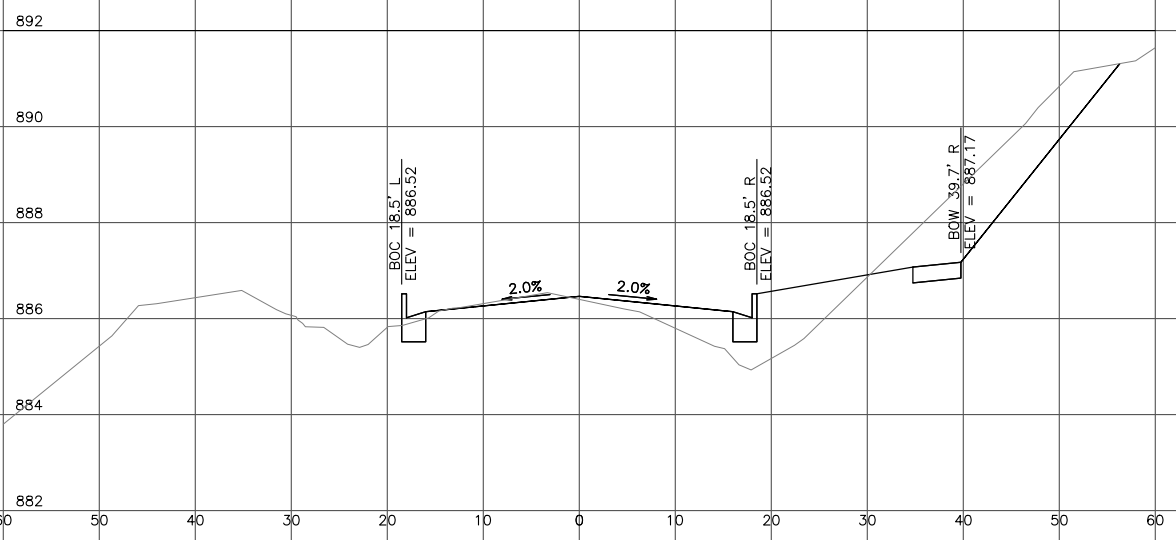
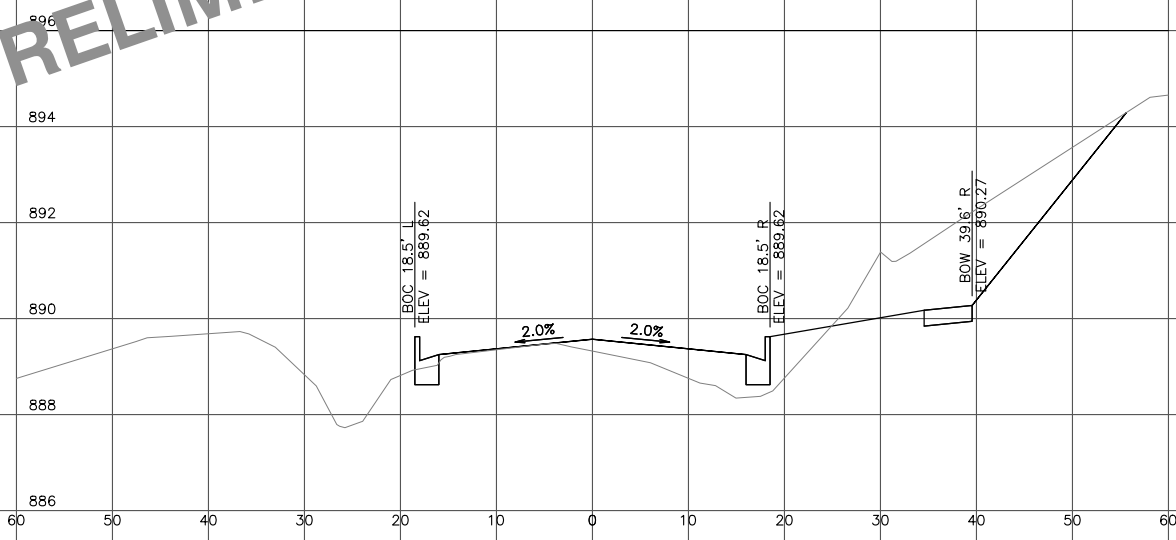
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16+50

17+50

17+00

18+00



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CROSS SECTIONS
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Station X+XX To Station X+XX

2021 CTH MN/BROADHEAD STREET
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SCALE: VERTICAL	1" = 2'
SHEET:	X3

PRELIMINARY

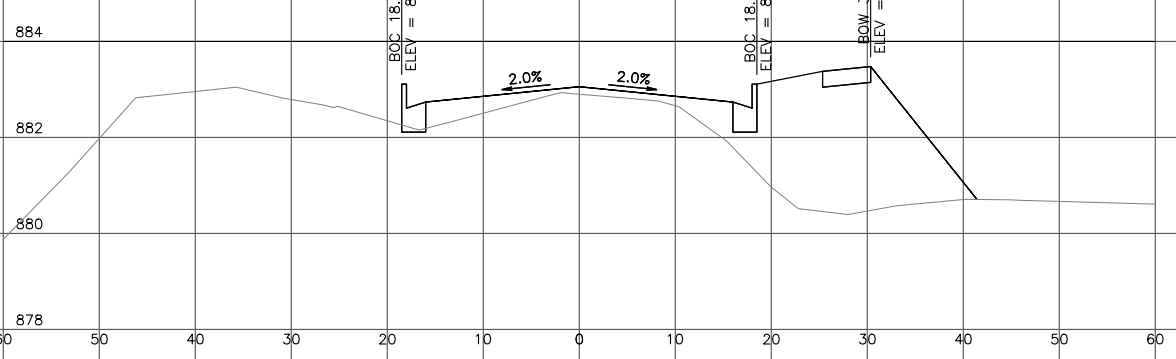
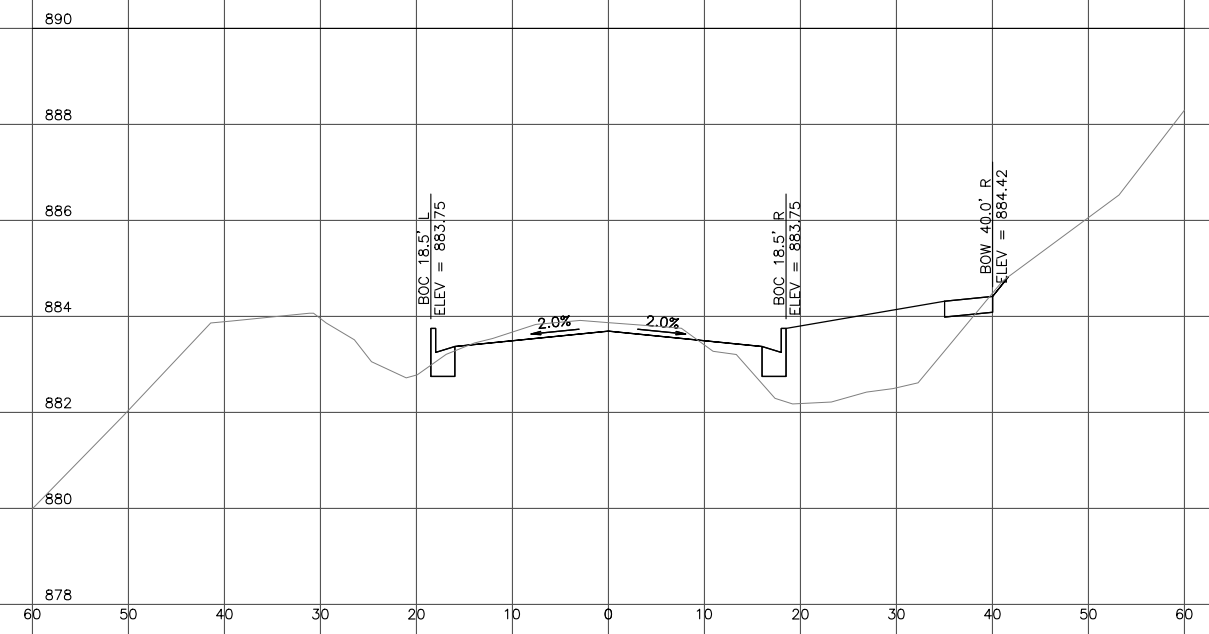
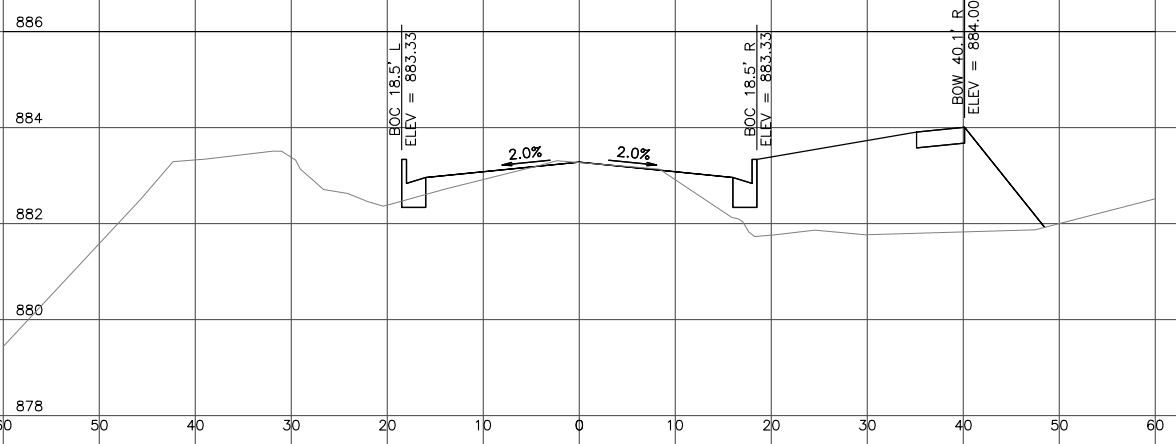
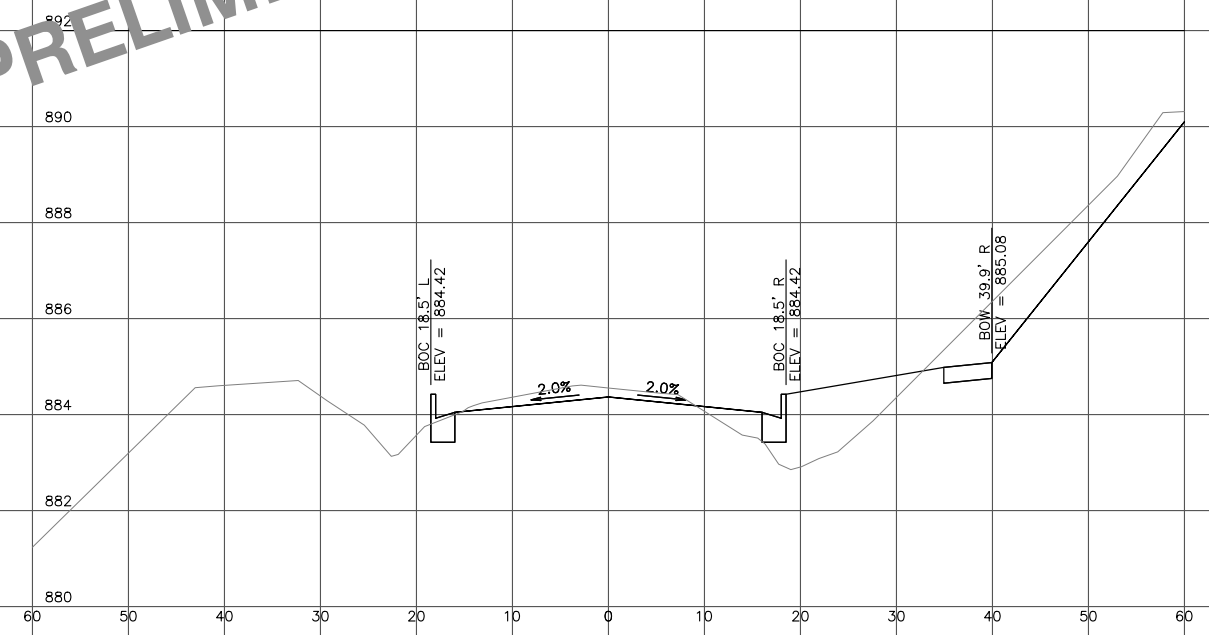
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18+50

19+50

19+00

20+00



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CROSS SECTIONS
CTH MN
Station X+XX To Station X+XX

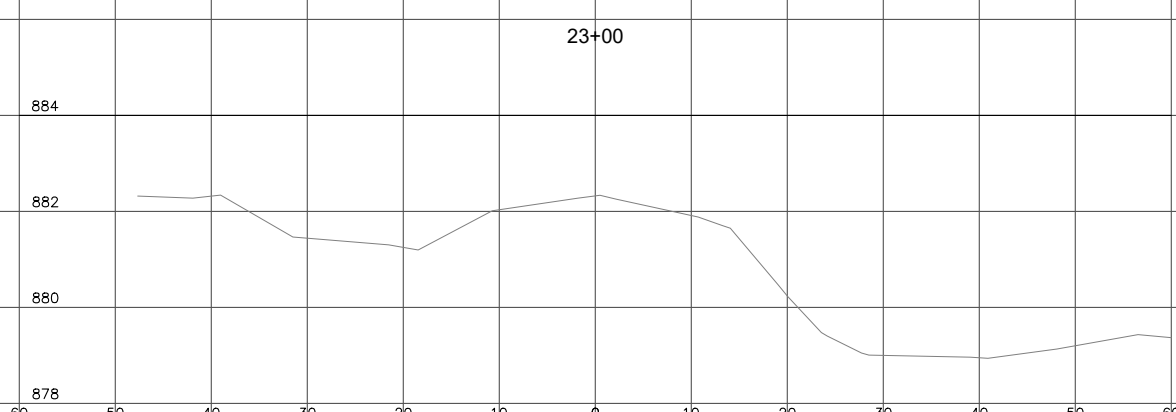
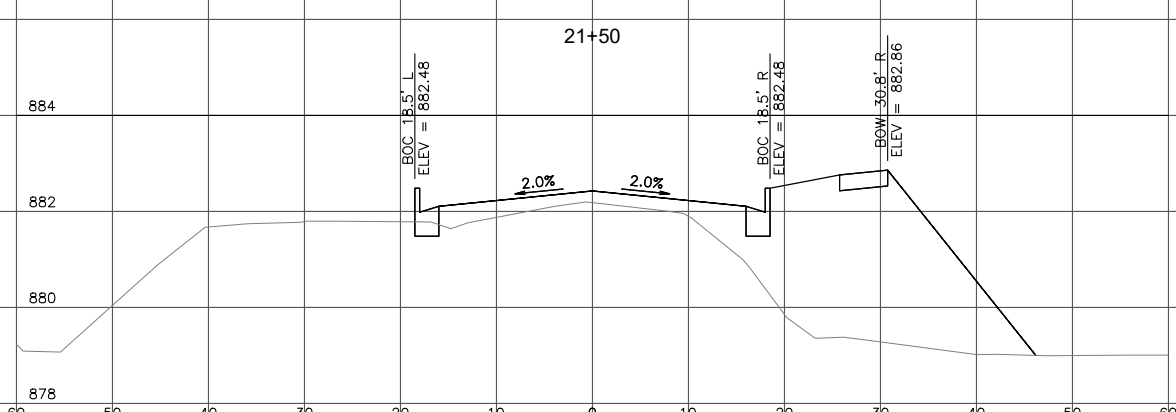
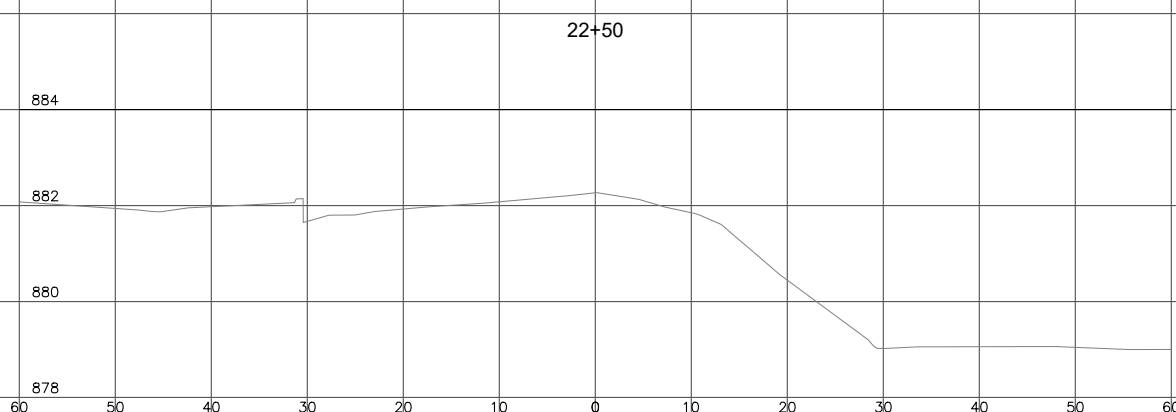
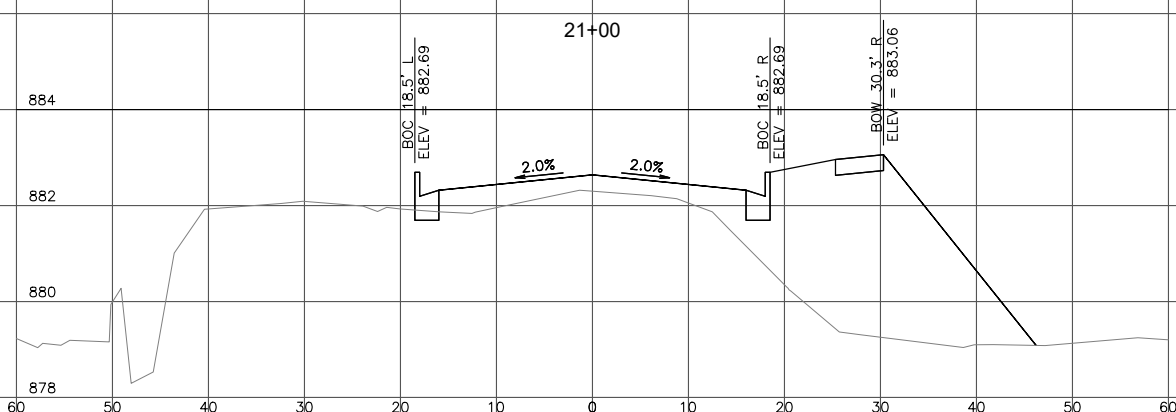
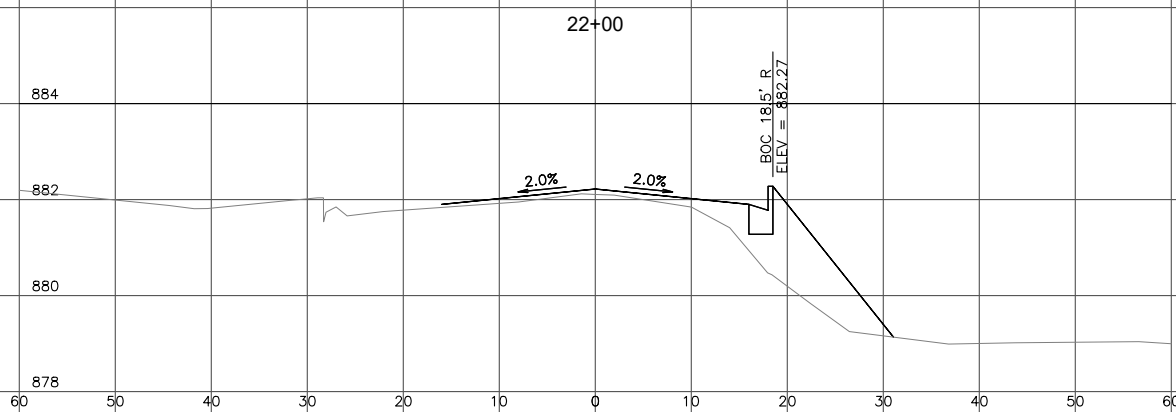
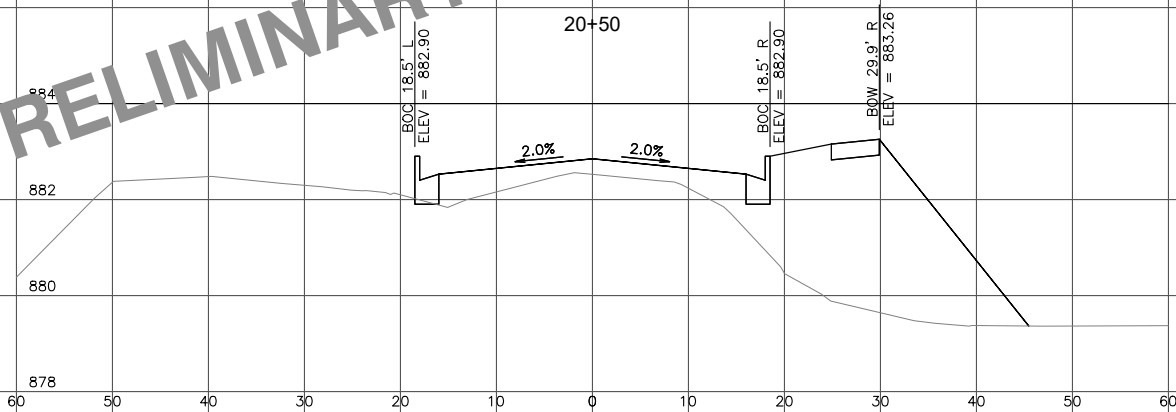
2021 CTH MN/BROADHEAD STREET
UTILITY AND STREET IMPROVEMENTS
Village of McFarland, Wisconsin

PROJECT NO.:	MC 174
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SHEET:	

X4

PRELIMINARY

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2021 CTH MN/BROADHEAD STREET
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SCALE: VERTICAL	1" = 5'
SHEET:	X5

X5

Summary

CLIENT NAME:	Village of McFarland
PROJECT NAME:	CTH MN - Phase 4A
	Holscher Road to Penninsula Way
DATE OF ESTIMATE:	September 20, 2020

COST ESTIMATE SUMMARY:

Description:	Subtotal Cost	Village Portion	County Portion
Street Work	\$424,185	\$182,248	\$241,937
Water Main Work	\$0	\$0	\$0
Sanitary Sewer Work	\$0	\$0	\$0
Storm Sewer Work	\$166,140	\$112,914	\$53,226
TOTAL	\$590,325	\$295,163	\$295,163

Notes:

1. Village allocates some aggregate base and asphalt costs to utility funds. See "Street Estimate" tab for details.
2. Costs include a 10% contingency, estimated 13% engineering, and estimated 4% resident construction observation.

	Total	Village Portion	County Portion
Design	\$27,889	\$13,945	\$13,945
Construction Management	\$51,131	\$25,565	\$25,565
Contingency	\$46,482	\$23,241	\$23,241
Construction	\$464,823	\$232,412	\$232,412
TOTAL	\$590,325	\$295,163	\$295,163

STREET IMPROVEMENTS COST ESTIMATE

CLIENT NAME:	Village of McFarland
PROJECT NAME:	CTH MN - Phase 4A
	Holscher Road to Penninsula Way
DATE OF ESTIMATE:	9/20/2020

PHYSICAL ASSUMPTIONS:

Length of Street, Feet:	1073
Radii @ Intersections	20
Number of Radii	6
Number of Side Streets	2
Existing Curb & Gutter Removal, Lineal Feet:	200
Curb & Gutter Length, Feet:	2146
Gutter to Gutter Width, Feet:	36
Width of Curb & Gutter Inches:	30
Number of Valley Gutters:	
Existing Conc. Flatwork Removal, Lineal Feet:	500
Amount of New 5" Concrete Sidewalk, Sq. Ft.:	5365
Base Course Depth Under 5" Sidewalk, Inches:	6
Amount of New 6" Concrete Sidewalk, Sq. Ft.:	960
Base Course Depth Under 6" Sidewalk, Inches:	6
Average Bad Subbase Undercut Depth, Inches:	3
Breaker Run Depth, Inches:	12
3/4" Crushed Aggregate Depth, Inches:	6
Asphalt Binder Course Thickness, Inches:	3
Asphalt Surface Course Thickness, Inches:	2
2" Asphalt Driveway or Parking Area, Sq. Yds:	106.6666667
Base Course Depth Under Parking Area, Inches:	12
Width of Topsoiling, Each Side, Feet:	7
Manholes to Be Adjusted:	1
Sawcutting Length, Feet:	200
Base Course Safety Factor:	1.1
Asphalt Safety Factor:	1.1

COST ASSUMPTIONS:

Curb & Gutter Cost, Per Lineal Foot:	\$15.00
Existing Curb Removal Cost, Per Lin. Ft.:	\$3.00
Valley Gutter Cost, Per Each	\$2,000.00
5" Sidewalk Cost, Per Sq. Ft.:	\$5.50
6" Sidewalk Cost, Per Sq. Ft.:	\$6.00
Excavation to Subbase Cost, Per Cu. Yd.:	\$16.00
Existing Flatwork Removal Cost, Per Sq. Ft.:	\$4.00
Bad Subbase Excavation Cost, Per Cu. Yd.:	\$16.50
Bad Subbase Replac. Br. Run Cost, Per Ton:	\$14.00
Breaker Run Cost, Per Ton:	\$14.00
3/4" Crushed Aggregate Cost, Per Ton:	\$14.50
Asphalt Binder Course Cost, Per Ton:	\$69.00
Clean & Tack Cost, Per Sq. Yd.:	\$0.50
Asphalt Surface Course Cost, Per Ton:	\$72.00
Parking Lot Pavement Cost, Per Sq. Yd.	\$20.00
Topsoil Restoration Cost, Per Sq. Yd.:	\$2.50
Seeding, Fertilizing & Mulching Cost, Per Sq. Yd.:	\$3.00
Manhole Adjustment Cost, Each:	\$250.00
Sawcutting Cost, Per Lineal Foot:	\$3.00
Erosion Control Allowance, Lump Sum:	\$10,000.00
Traffic Control Allowance, Lump Sum:	\$10,000.00

CALCULATIONS:

Pavement Width, Feet:	32
3/4 " Cr. Aggr. Depth Under Gutter, Inches:	4
Effective Depth of Crown, Inches:	1.92
Street Cr. Aggregate & Exc. Area, Sq. Ft.:	44194
Street Pavement Area, Square Feet:	36239
Street Pavement Area, Square Yards:	4026.555556

COST ESTIMATE:

Description:	Units	Unit Price	Estimated Cost	Village Cost	County Cost
Mobilization, Bonds & Insurances	1 l.s.	\$18,200.00 l.s.	\$18,200	\$9,100	\$9,100
Removal & Disposal of Existing Curb & Gutter	200 l.f.	\$3.00 /l.f.	\$600	\$300	\$300
Removal & Disposal of Existing Conc. Flatwork	500 s.f.	\$4.00 s.f.	\$2,000	\$1,000	\$1,000
Excavation to Subbase	3441 c.y.	\$16.00 /c.y.	\$55,056	\$27,528	\$27,528
Excavation of Bad Materials Below Subbase	409 c.y.	\$16.50 /c.y.	\$6,749	\$3,375	\$3,375
3" Breaker Run Replacement of Bad Subbase	820 tons	\$14.00 /ton	\$11,480	\$5,740	\$5,740
3" Breaker Run Base Course	3281 tons	\$14.00 /ton	\$45,934	\$22,967	\$22,967
3/4" Crushed Aggregate Base Course	3176 tons	\$14.50 /ton	\$46,052	\$23,026	\$23,026
Manhole Adjustments	1 ea.	\$250.00 /ea.	\$250	\$125	\$125
Sawcutting	200 l.f.	\$3.00 /l.f.	\$600	\$300	\$300
Concrete Curb & Gutter	2146 l.f.	\$15.00 /l.f.	\$32,190	\$16,095	\$16,095
Valley Gutter at Intersections	0 ea.	\$2,000.00 /ea.	\$0	\$0	\$0
4" Thick Concrete Sidewalk	5365 s.f.	\$5.50 /s.f.	\$29,508	\$14,754	\$14,754
6" Thick Concrete Sidewalk	960 s.f.	\$6.00 /s.f.	\$5,760	\$2,880	\$2,880
Asphalt Lower Course	797 tons	\$69.00 /ton	\$54,993	\$27,497	\$27,497
Clean & Tack	4027 s.y.	\$0.50 /s.y.	\$2,014	\$1,007	\$1,007
Asphalt Surface Course	532 tons	\$72.00 /ton	\$38,304	\$19,152	\$19,152
Asphalt Driveway Replacements	106.67 s.y.	\$20.00 /s.y.	\$2,133	\$1,067	\$1,067
Topsoil Restoration	1669 s.y.	\$2.50 /s.y.	\$4,173	\$2,087	\$2,087
Seeding, Fertilizing & Mulching	1669 s.y.	\$3.00 /s.y.	\$5,007	\$2,504	\$2,504
Erosion Control	1 l.s.	\$10,000.00 l.s.	\$10,000	\$5,000	\$5,000
Signing and Traffic Control	1 l.s.	\$10,000.00 l.s.	\$10,000	\$5,000	\$5,000
Stone/Asphalt/Curb allocated to Storm Utility				(\$46,999)	

CONSTRUCTION SUBTOTAL

Basic Design Eng. & Const. Admin.	@	13%	\$49,530.39	\$18,655.32	\$24,765
Resident Inspection	@	4%	\$15,240.12	\$5,740.10	\$7,620
Contingency	@	10%	\$38,100.30	\$14,350.25	\$19,050
TOTAL			\$483,874	\$182,248	\$241,937

Water Estimate

CLIENT NAME:
PROJECT NAME:

Village of McFarland
CTH MN - Phase 4A
Holscher Road to Peninsula Way
9/20/2020

DATE OF ESTIMATE:

PHYSICAL ASSUMPTIONS:

Pipeline Subject to Dewatering, Feet:	0
Pipeline Subject to Rock Excavation, Feet:	
Expected Average Depth of Rock, Feet:	
Pipeline Subject to Pavement Restoration, Feet:	0
Depth of Pipeline Subject to Pave. Restoration, Feet:	7
Pipeline Subject to Grass Restoration, Feet:	0
Crushed Aggregate Restoration Thickness, Inches:	4
Asphalt Pavement Restoration Thickness, Inches:	0
Average Pavement Width Left of Water Main, Feet:	5
Average Pavement Width Right of Water Main, Feet:	5
Average Grass Width Left of Water Main, Feet:	0
Average Grass Width Right of Water Main, Feet:	0
Assumed Trench Sideslope, Vert. to Horiz., ___ to 1:	1.5

COST ASSUMPTIONS FOR CALCULATIONS:

Crushed Aggregate Cost, Per Ton:	\$15.00
Asphalt Pavement Cost, Per Ton:	\$70.00

**Assumes that utility work is done concurrently with street work (no mobilization cost, only temp. gravel restoration above trench)

COST ESTIMATE:

Description:	Units	Unit Price	Estimated Cost	Upsizing from 8-i
Mobilization/Demobilization	1 lump sum	lump sum	\$0	
6" Dia. D.I. Water Main and Hydrant Lead	0 lin. ft.	\$75.00/lin. ft.	\$0	
10" Dia. D.I. Water Main	0 lin. ft.	\$100.00/lin. ft.	\$0	\$0.00
6" Water Valve & Box	0 each	\$1,375.00 each	\$0	
10" Water Valve & Box	0 each	\$2,700.00 each	\$0	\$0.00
Hydrants, Not Including Hydrant Valve	0 each	\$4,500.00 each	\$0	
1" Corporation Stops	0 each	\$325.00 each	\$0	
1" Curb Stops & Boxes	0 each	\$450.00 each	\$0	
1" Copper Water Service Laterals	0 lin. ft.	\$65.00/lin. ft.	\$0	
Lateral Reconnections	0 each	\$250.00 each	\$0	
Loop Reconnections	0 each	\$3,100.00 each	\$0	
Dewatering Allowance	0 lin. ft.	\$3.00/lin. ft.	\$0	
Rock Excavation Allowance	0 cu. yd.	\$60.00/cu. yd.	\$0	
Pavement Restoration Allowance	0 lin. ft.	#DIV/0! /lin. ft.	#DIV/0!	
Topsoil Restoration, Seeding, Fertilizing & Mulching Allowance	0 sq. yd.	\$4.50/sq. yd.	\$0	
Other Erosion Control	1 l.s.	\$500.00 l.s.	\$500	
Testing	1 l.s.	\$750.00 l.s.	\$750	

Stone/Asphalt allocated to Water Utility

#REF!

CONSTRUCTION SUBTOTAL

Basic Design Eng. & Const. Admin.	@	13%
Resident Inspection	@	4%
Contingency	@	10%

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

TOTAL

#DIV/0!

Upsizing Costs from 8-inch to 10-inch

\$0.00

Sewer Estimate

CLIENT NAME:
PROJECT NAME:

Village of McFarland
CTH MN - Phase 4A
Holscher Road to Peninsula Way
20-Sep-20

DATE OF ESTIMATE:

PHYSICAL ASSUMPTIONS:

Pipeline Subject to Dewatering, Feet:	0
Pipeline Subject to Rock Excavation, Feet:	
Expected Average Depth of Rock, Feet:	
Pipeline Subject to Pavement Restoration, Feet:	0
Depth of Pipeline, Feet:	9
Pipeline Subject to Grass Restoration, Feet:	0
Crushed Aggregate Restoration Thickness, Inches:	4
Asphalt Pavement Restoration Thickness, Inches:	0
Average Pavement Width Left of Sewer, Feet:	5
Average Pavement Width Right of Sewer, Feet:	5
Average Grass Width Left of Sewer, Feet:	0
Average Grass Width Right of Sewer, Feet:	0
Assumed Trench Sideslope, Vert. to Horiz., ___ to 1:	1.5

COST ASSUMPTIONS FOR CALCULATIONS:

Crushed Aggregate Cost, Per Ton:
Asphalt Pavement Cost, Per Ton:

**Assumes that utility work is done concurrently with street work (no mobilization cost, no gravel restoration above trench)

COST ESTIMATE:

Description:	Units	Unit Price	Estimated Cost
Mobilization/Demobilization	1 lump sum		\$0
8" Dia. PVC Sanitary Sewer, Basic Cost	0 lin. ft.	\$65/lin. ft.	\$0
4" PVC force main	0 lin. ft.	\$60/lin. ft.	\$0
Sanitary Manhole Castings	0 each	\$450 each	\$0
Sanitary Manhole Masonry	0 vert. ft.	\$300/vert. ft.	\$0
4" Sanitary Wyes	0 each	\$275 each	\$0
4" Risers	0 vert. ft.	\$50/vert. ft.	\$0
4" PVC Sanitary Service Laterals	0 lin. ft.	\$50/lin. ft.	\$0
Tracer Wire Assembly	0 each	\$275 each	\$0
Service Lateral Reconnections	0 each	\$800 each	\$0
Tree & Other Obstacle Removal	1 lump sum	\$275 lump sum	\$275
Dewatering Allowance	0 lin. ft.	/lin. ft.	\$0
Pavement Restoration Allowance	0 lin. ft.	#DIV/0! /lin. ft.	#DIV/0!
Topsoil Restoration, Seeding, Fertilizing & Mulching Allowance	0 sq. yd.	\$4.5/sq. yd.	\$0
Allowance for Pulling Trench Box	0 lin. ft.	\$2/lin. ft.	\$0
Other Erosion Control	1 l.s.	\$500 l.s.	\$500
Lift Station	1 l.s.	\$0 l.s.	\$0

CONSTRUCTION SUBTOTAL

Basic Design Eng. & Const. Admin.	@ 13%	#DIV/0!
Special Meetings & Design Refinements	@ 0%	#DIV/0!
Resident Inspection	@ 4%	#DIV/0!
Contingency	@ 10%	#DIV/0!
TOTAL PROJECT COSTS		#DIV/0!

Sewer Estimate

\$15.00
\$70.00

Storm Sewer Estimate

CLIENT NAME:	Village of McFarland
PROJECT NAME:	CTH MN - Phase 4A
	Holscher Road to Penninsula Way
DATE OF ESTIMATE:	September 20, 2020

COST ESTIMATE:

Description:	Units	Unit Price	Estimated Cost	Village Cost	County Cost
12" Dia. Class V RCP Storm Sewer	80 lin. ft.	\$69.00/lin. ft.	\$5,520	\$2,760	\$2,760
15" Dia. Class IV RCP Storm Sewer	0 lin. ft.	\$72.00/lin. ft.	\$0	\$0	\$0
18" Dia. Class III RCP Storm Sewer	800 lin. ft.	\$80.00/lin. ft.	\$64,000	\$32,000	\$32,000
30" Dia. Class III RCP Storm Sewer	lin. ft.	\$100.00/lin. ft.	\$0	\$0	\$0
Street Inlets, Including Castings	4 each	\$2,200.00 each	\$8,800	\$4,400	\$4,400
Storm Sewer Manhole, Including Castings	2 each	\$2,750.00 each	\$5,500	\$2,750	\$2,750
Area Inlets, Including Castings	each	\$2,000.00 each	\$0	\$0	\$0
Stone/Asphalt/Curb allocated to Storm Utility				\$46,999	
CONSTRUCTION SUBTOTAL			<u>\$83,820</u>	<u>\$88,909</u>	<u>\$41,910</u>
Basic Design Eng. & Const. Admin.	@ 13%		\$10,896.60	\$11,558.17	\$5,448.30
Resident Inspection	@ 4%		\$3,353	\$3,556.36	\$1,676.40
Contingency	@ 10%		\$8,382.00	\$8,890.90	\$4,191.00
TOTAL			\$106,451	\$112,914	\$53,226



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Tuesday, November 10, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Lee Igl, Streets/Utilities Superintendent, Jim Hessling, Public Works Director

AGENDA ITEM: Discussion and action to make a recommendation to the Village Board regarding the creation of a Traffic Management Request Policy as Chapter 1 of the Public Works Policy Manual.

PREVIOUS ACTION:

The original draft policy was reviewed and discussed at the October Public Works meeting.

ISSUE SUMMARY:

Enclosed is the second draft of a policy for Traffic Management Requests.

The policy will address such requests as speed reduction, stop signs, no parking signs, etc. Internal requests have previously been reviewed by Police and Public Works Departments with occasional recommendation from a Traffic Engineer. The police establishes the procedure to make a request, need for an application, and then determinations for Staff or Committee review. Typically, Staff is likely going to handle most requests administratively according to these standards; however, if not agreed by the applicant they can appeal to the Committee. This also defers requests for improvements on Federal, State, and County highways as applicable.

We will review the policy in the meeting and discuss any questions the Committee might have.

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:



1. Chapter 1 - Traffic Management Request Policy 11022020 mgs

CHAPTER 1 Traffic Management Request Policy

SECTION 1.01 Purpose

To establish guidelines to efficiently and effectively evaluate and respond to requests for traffic management including but not limited to street signs, speed limit, and parking control within the Village.

SECTION 1.02 Procedure

- (a) Staff will utilize the Manual on Uniform Traffic Control Devices (“MUTCD”) as a guide in making decisions relating to applicable traffic management requests (“Requests”).
- (b) Requests shall be provided as follows:
 - (1) All Requests shall be submitted via an official Traffic Management Request Form (“Application”). The form will be submitted, as per instructions, to the Police Department (“Police”). The Application will be formatted by Staff and at a minimum contain the following information to be supplied by the Applicant:
 - (i) Name.
 - (ii) Address.
 - (iii) Contact information including telephone number and email address.
 - (iv) Information about the request including a description of the issue, location, and suggested resolution.
 - (v) **Petitions.** The following types of requests will require a petition to be filed before a final decision will be made by Staff or Committee. The petition must have 75% approval from Residents in the neighborhood as follows:(defined with each request type below). As applicable, a petition from the adjoining properties affected by the request noting support in excess of 75%.
 - a. **New or additional Stop Sign(s):** approval signatures from 75% of all residences within three (3) blocks in all directions of the sign intersection.
 - b. **No Parking:** approval signatures from 75% of all residences in a one (1) block in all directions of the sign location.
 - c. **Speed limit sign:** approval signatures from 75% of all residences in a three (3) block radius of the sign location.
- (2) Upon receipt of an Application, the Police Department shall forward a copy to the Public Works Department (“Public Works”).

- (3) Police and Public Works will jointly evaluate the Request, and make one of the following determinations:
- (i) Under the following criteria, the Application will be considered administratively by Staff when:
 1. The Request is clearly in compliance with the MUTCD and does not contain any of the preclusions listed in Section 1.02(b)(3)(i).
 2. The Request is clearly not defined nor recommended in the MUTCD, but may have merit due to other circumstances and does not contain any of the preclusions listed in Section 1.02(b)(3)(i)(1)-(4). Example: the addition of a School Zone warning sign.
 3. The Request is, in the opinion of Staff, emergent in nature but may otherwise require Committee review. In these situations Staff will handle the situation with temporary solutions to the degree possible, and refer the request to the Committee for review of possible permanent solutions.
 4. The Request would be considered normal, obvious, everyday course of business situations. Example: a new roadway is opened up, requiring the addition of a stop sign or other traffic control sign.
 - (ii) Under the following criteria, the Application will be forwarded to the Public Works Committee (“Committee”) for consideration when:
 1. The Request requires approval due to the financial implications per the Fiscal Policy Manual.
 2. The Request is clearly not defined or recommended in the MUTCD, but may have merit due to other circumstances and contain one or more of the preclusions found in this section.
 3. The Request is clearly supported by the MUTCD, but may contain one or more of the preclusions found above in this section.
- (c) Requests for routine maintenance, repair, relocation, etc. of existing signage
- (1) Requests for routine maintenance, repair, relocation, etc. may be received verbally, via email, letter or phone call, or via the Application. For example, if someone calls to report that a stop sign has fallen down, action will be taken based upon that Request, and the submission of an Application will not be required.
 - (2) Requests for routine maintenance, repair, relocation, etc. will generally be evaluated and resolved by Staff, unless any of the preclusions of Section 1.02(b)(3)(ii) exist.

SECTION 1.03 Committee Referral

(a) Committee Referral

- (1) Upon determination that the Application will require review by the Committee, Staff shall forward the request to the Committee along with their recommendation(s).
- (2) In most situations, the recommendations of Public Works and Police should be in line with the MUTCD. As noted; however, situations may exist that would suggest a course of action not in compliance with these recommendations. In these situations, the reasons for this and any supporting data or information should be included with the Staff recommendation(s).
- (3) As part of its review, Staff may also consult a Traffic Engineer in order to study the Application and present their recommendations to the Committee as appropriate.

(b) Committee Review

- (1) The Committee will review the Application, Staff report, Traffic Engineer recommendations, and public comment as applicable and available to make its decision on the Request. In doing so the Committee will adhere to the standards contained within the MUTCD as is practical and possible.
- (2) In the event that the action taken by the Committee on the Request necessitates a revision to Village Ordinance, the Committee shall recommend action to the Village Board for final decision.

(c) Final Disposition of the Request

- (1) Upon determination of a final disposition of an Application, Staff shall inform the Applicant of the disposition and what, if any, action will be taken.

SECTION 1.04 Requests for Federal, State, and/or County Highways

- (a) Applications pertaining to Federal and/or State roadways will be referred to the Wisconsin Department of Transportation (“WisDOT”) for review and recommendation. The Village will consider Applications within these roadways that fall within its jurisdiction based upon the findings of WisDOT.
- (b) Applications pertaining to County roadways will be referred to Dane County Highway and Transportation (“Dane County”) for review and recommendation. The Village will consider Applications within these roadways that fall within its jurisdiction based upon the findings of Dane County.

SECTION 1.05 Appeal Process

- (a) Upon receiving notification of the final disposition, the Applicant may appeal to the Committee if action was taken by Staff that the Applicant does not feel properly addresses their Application.
- (b) Upon receiving notification of the final disposition, the Applicant may appeal to the Village Board if action was taken by the Committee that the Applicant does not feel properly addresses their Application. Decision by the Village Board is final.
- (c) The Applicant is responsible for the preparation and presentation of any and all evidence, documentation, or testimony they feel supports their Application.

Committee Adopted:

Village Board Adopted:

Revised: None.



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Tuesday, November 10, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Lee Igl, Streets/Utilities Superintendent

AGENDA ITEM: Discussion and action to make a recommendation regarding a Street Light Policy to the Village Board.

PREVIOUS ACTION:

ISSUE SUMMARY:

Please find enclosed a draft of a policy for Additional Streetlight requests. There have not been many requests in past, but it appears requests went to the Public Works Committee for approval of the recommendation from the Public Works Department. The policy establishes a procedure for residents to request additional streetlights and for staff to process the request. The policy also establishes a procedure for internal departments to request additional street lighting. There is also an appeal process for residents provided 75% of the neighbors within 300 feet of the new light approve of the addition. Approved additions may be delayed based on budgetary restraints.

We will review the policy in the meeting and discuss any questions the Committee might have.

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:

1. Chapter 2 - Streetlight Policy 11022020 mgs

CHAPTER 2 Streetlight Policy

SECTION 2.01 Purpose

This policy is to guide the Village Board, Departments, Staff, and the general public in the request and review process for the additional installation of street lighting, in the right of way, on public Village streets, or cul-de-sacs.

SECTION 2.02 System Process

- (a) **New Installation.** For new streets and developments, the street lighting plan will be provided through the energy provider with location and spacing to be approved by the Director of Public Works, Village Engineer, and/or designee.

- (b) **Reconstruction.** Additional street lighting will be reviewed by the Director of Public Works, Village Engineer, and/or designee to determine if additional lighting is needed and will be reviewed on the following basis:
 - (1) Maturity of trees restricting current lighting.
 - (2) High crime area reported by Police.
 - (3) Additions of sidewalks or multi-use paths.

SECTION 2.03 Request Process

- (a) **Residential Request.** Residential requests for additional street lighting must include a signed petition from all residents within 300 feet of the purposed streetlight. The following conditions shall apply as part of the review:
 - (1) A signed petition or request does not guarantee the addition of street lighting.
 - (2) The Director of Public Works, Village Engineer, and/or designee will review the request and petition in order to make the final decision on adding street lighting based on:
 - (i) Maturity of trees restricting current lighting.
 - (ii) High crime area reported by Police.
 - (iii) Additions of sidewalks or multi-use paths.
 - (iv) Response from petition.

(b) Internal Request.

- (1) Internal requests from the Village Board, Departments, and/or Staff will be reviewed by the Director of Public Works, Village Engineer, and/or designee.
- (2) The Public Works Department will send out a notification to all residents within 300 feet of the purposed streetlight.
- (3) The Director of Public Works, Village Engineer, and/or designee will make a final decision based on:
 - (i) Maturity of trees restricting current lighting.
 - (ii) High crime area reported by Police.
 - (iii) Additions of sidewalks or multi-use paths.
 - (iv) Response from petition.

SECTION 2.04 Appeal Process

- (a) Denied requests may be appealed to the Public Works Committee for consideration to review the Department's action on the request.

Committee Adopted:

Village Board Adopted:

Revised: None.



VILLAGE BOARD SUMMARY SHEET

MEETING DATE: Tuesday, November 10, 2020

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Jim Hessling, Public Works Director

AGENDA ITEM: Presentation of the Public Works Monthly Report.

PREVIOUS ACTION:

ISSUE SUMMARY:

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:

1. October 2020 Public Works Directors report

PUBLIC WORKS COMMITTEE

November 10, 2020

PUBLIC UTILITIES COMMITTEE

November 17, 2020

Public Works Directors Report

for

October 2020

The following is information concerning events and activities of the Public Works Department along with the Water and Sewer Utilities for the previous month. This information is provided in brief to provide an overview of the highlights.

PW Complex

Construction activities at the public works building are almost complete. The heating system was installed and all painting and floor work completed. Office furniture arrived too.

Autumn/North Autumn Watermain Replacement

The project is now complete.

Sump Pump Header Project/Bike Trail Path

The project is mostly finished with a couple of very minor items left to complete.

Lead and Copper Testing

Sample collection and testing has been completed. The results along with all necessary paperwork has been submitted to the DNR.

Watermain Break

The department repaired a watermain leak on Creamery Road.

Equipment

The department took delivery of a new service van and pickup truck in October. These vehicles are planned to be placed into service within the next month.

Snow plow installation on some of the trucks has started.

Meetings/Training/Seminars

All meetings were held by electronic means this month. Those meeting include:

Aimee Irwin attended the following trainings this month:

- Utility Clerk Training - Wisconsin Rural Water Association
- Accounting Workshop - Wisconsin Government Finance Officers Association
- General utility accounting updates - Baker Tilly

- Local parks meetings - Larson
- Wisconsin Emergency Response - Supervisors webinar - Igl
- APWA monthly board meeting - Igl & Hessling
- EPA Emergency Response Plan Requirements Workshop - Hessling