

GENERAL NOTES

THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.

- STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
- THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
- WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
- WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
- VILLAGE OF HARTLAND STANDARDS & REQUIREMENTS FOR DEVELOPMENT, LATEST EDITION.

THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.

EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, AN APPROVED EROSION CONTROL PLAN WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY IMPLEMENTING THE APPROVED PLAN.

THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY FLOOR, CURB OR PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.

THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (CALL DIGGERS HOTLINE AT 800-242-8511). COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY

EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK, FIELD OBSERVATIONS, AVAILABLE PUBLIC RECORDS, AND AS-BUILT DRAWINGS. EXACT LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE DETERMINED PRIOR TO INSTALLING NEW WORK. EXCAVATE TEST PITS AS REQUIRED.

PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION.

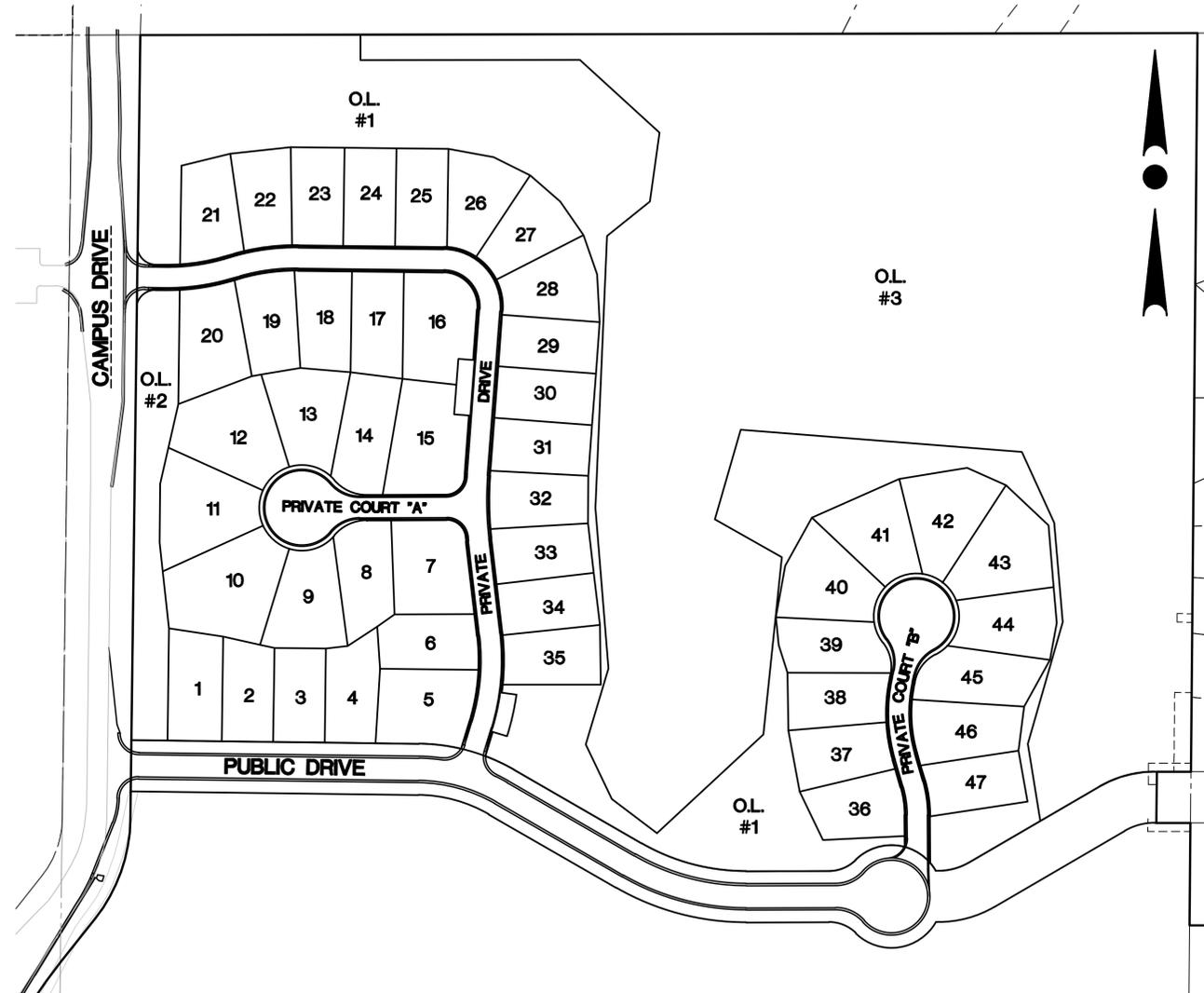
ALL TRENCHING SHALL BE PERFORMED ACCORDING TO OSHA STANDARDS.

ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.

THE CONTRACTOR SHALL CLEAN ALL ADJACENT STREETS OF ANY SEDIMENT OR DEBRIS AS REQUIRED BY MUNICIPAL ORDINANCE.

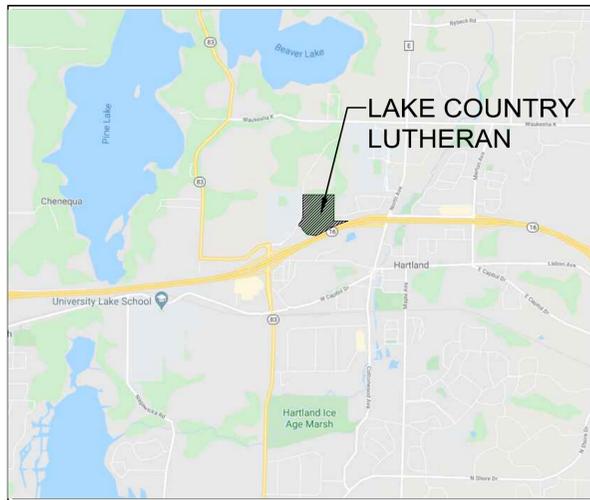
LAKE COUNTRY LUTHERAN

PRELIMINARY DEVELOPMENT PLANS CAMPUS DRIVE VILLAGE OF HARTLAND, WISCONSIN



SITE PLAN
SCALE: 1" = 100'

DEVELOPER:
NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072
PHONE: (262) 542-9200
FAX: (262) 349-9324



LOCATION MAP
NOT TO SCALE

SHEET INDEX

CIVIL	
T1	- COVER SHEET
C0.10	- EXISTING SITE PLAN
C0.20	- PROPOSED SITE PLAN
C1.00	- OVERALL GRADING & DRAINAGE PLAN
C1.01-C1.04	- GRADING & DRAINAGE PLANS
C1.05-C1.07	- POND DETAIL PLANS
C2.00	- EROSION CONTROL PLAN
C3.00	- SANITARY SEWER & WATER MAIN SYSTEM PLAN
C3.01-C3.04	- SANITARY SEWER AND WATER MAIN PLAN & PROFILE
C4.00	- STORM SEWER SYSTEM PLAN
C4.01-C4.03	- ROADWAY AND STORM SEWER PLAN & PROFILE
C4.04-C4.05	- STORM SEWER PLAN & PROFILE
C5.00-C5.01	- INTERSECTION DETAIL
C6.00-C6.03	- CONSTRUCTION NOTES & DETAILS

NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

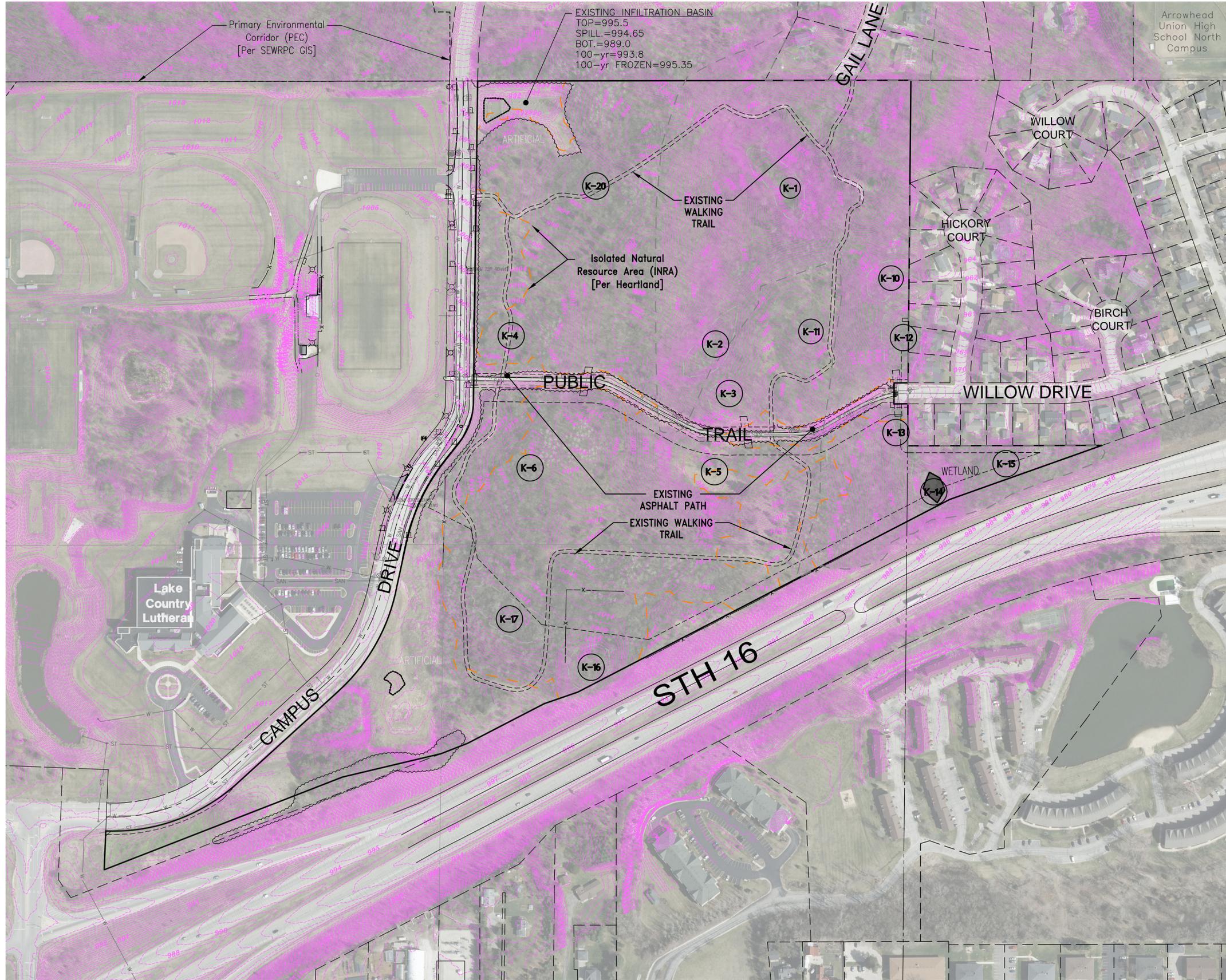
DESCRIPTION:
COVER SHEET

SHEET

T1

H:\C9000\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH_COVER & DETAILS-22X34.DWG

H:\C900\953\19023-01\CONSTRUCTION PLANS\LCL NORTH\CIVIL\LCL NORTH_SITE PLAN-22X34.DWG



ISOLATED NATURAL RESOURCE AREA NOTE:

Isolated Natural Resource Area boundary shown (in orange) hereon was delineated by Heartland Ecological Group Inc. in February 2020.

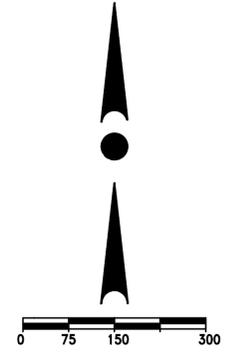
HORIZONTAL DATUM PLANE:

ALL BEARINGS ARE REFERENCED TO GRID NORTH OF THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD-27), IN WHICH THE NORTH LINE OF THE S.W. 1/4 OF SECTION 34, TOWN 8 NORTH, RANGE 18 EAST, BEARS N89°54'10"E.

VERTICAL DATUM PLANE:

All elevations are referenced to the National Geodetic Vertical Datum of 1929 via a ground survey by Trio Engineering, LLC. and Waukesha County GIS topographic data.

Kettle	Spillway- Bottom-	Storm Event	
		100-yr	Existing
Kettle 1	975-944	100-yr	953.25
		FROZEN	964.03
Kettle 2	973.7-966	100-yr	973.89
		FROZEN	975.56
Kettle 3	976-972	100-yr	976.29
		FROZEN	976.79
Kettle 4	1008.5-1007	100-yr	1008.13
		FROZEN	1008.66
Kettle 5	985.1-982.5	100-yr	984.22
		FROZEN	985.82
Kettle 6	1012.7-1011	100-yr	1012.10
		FROZEN	1012.96
Kettle 10	964.5-953	100-yr	960.89
		FROZEN	965.08
Kettle 11	980.5-979	100-yr	980.51
		FROZEN	980.84
Kettle 12	963-956	100-yr	960.40
		FROZEN	965.08
Kettle 13	966-959.4	100-yr	960.14
		FROZEN	963.41
Kettle 14	961.3-955	100-yr	961.49
		FROZEN	963.41
Kettle 15	972.5-970	100-yr	972.15
		FROZEN	972.77
Kettle 16	1007-1005	100-yr	1007.15
		FROZEN	1008.04
Kettle 17	1012-1011	100-yr	1012.19
		FROZEN	1012.87
Kettle 20	995.5-992	100-yr	993.60
		FROZEN	995.21



Scale: 1" = 150' (22"x34")
Scale: 1" = 300' (11"x17")



PROJECT:
LAKE COUNTRY LUTHERAN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

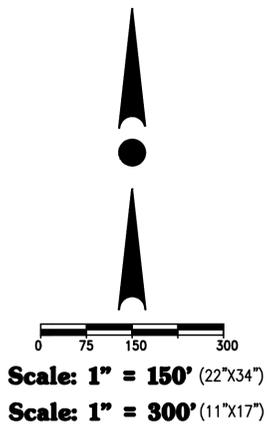
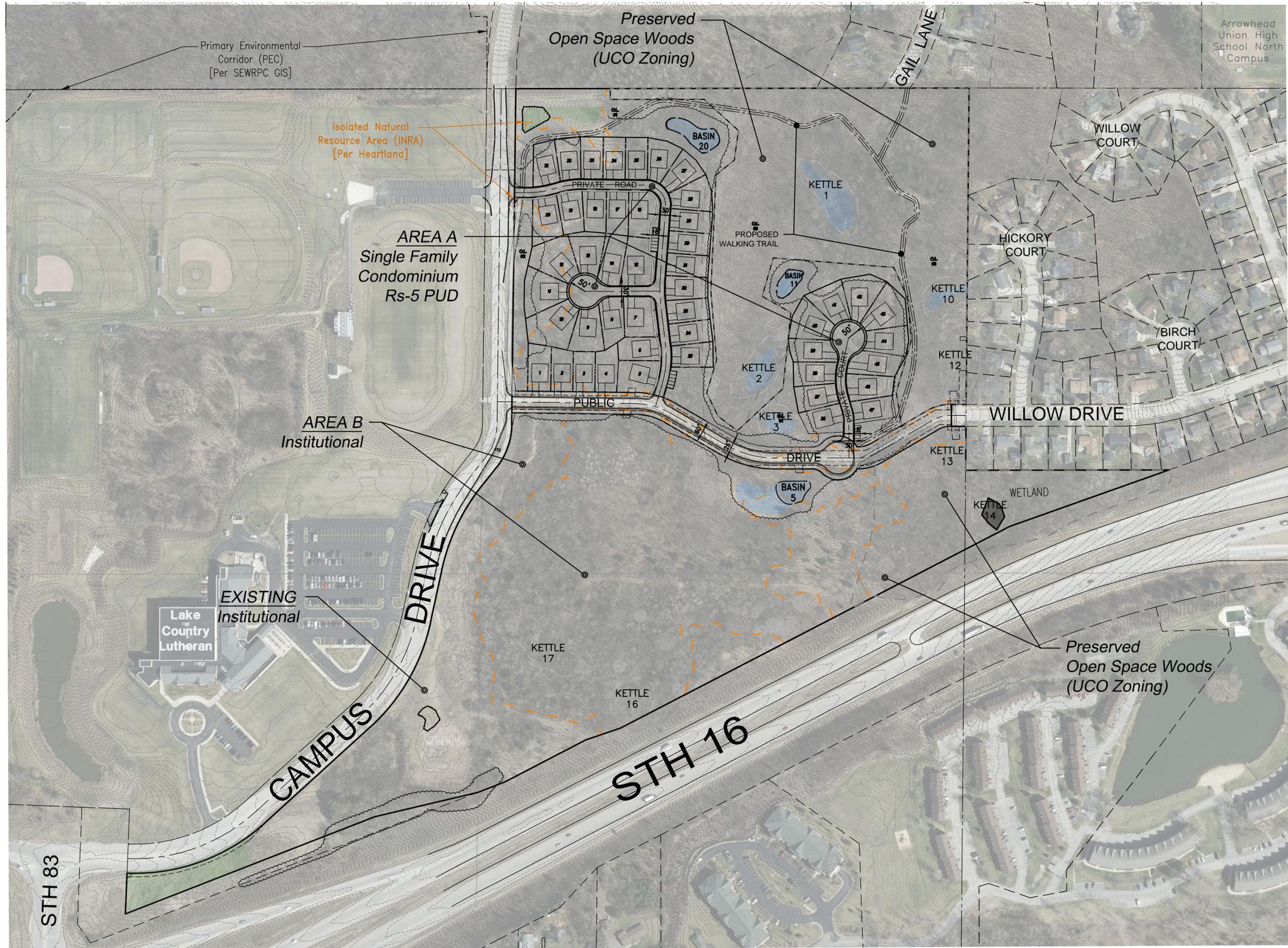
DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
EXISTING
SITE PLAN

SHEET

C0.10



DEVELOPMENT SUMMARY

Total Area	
Area A - RS-5 (PUD)	= 27.435 acres
Area B - Institutional	= 16.968 acres
Existing Institutional I-1	= 8.910 acres
Total Area	= 53.313 acres
Proposed UCO (Isolated Natural Resource Area)	
Area A - UCO	= 11.018 acres
Area B - UCO	= 4.246 acres
Proposed UCO Area	= 15.264 acres
AREA A Development Summary	
- Total Area:	27.435 acres
- Public Road Dedication	-1.746 acres
- UCO Area:	-11.018 acres
- Net Area:	14.671 acres
- Proposed Zoning:	RS-5 PUD "Clustered Conservancy Community"
- 47 - Single Family Condominiums	
- Net Density = 47 / 14.671 = 3.20 units/acre	
AREA B Development Summary	
- Total Area:	16.968 acres
- UCO Area:	-4.246 acres
- Net Area:	12.722 acres
- Existing Zoning:	I-1 "Institutional"



PROJECT:
LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY

DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 OVERALL
 PROPOSED
 SITE PLAN

SHEET
 C0.20

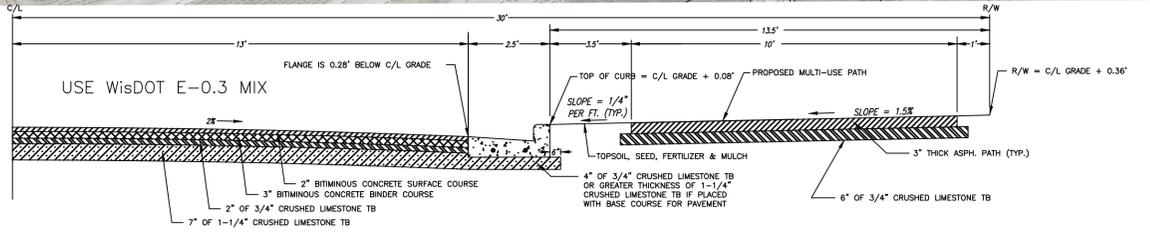
ISOLATED NATURAL RESOURCE AREA NOTE:
 Isolated Natural Resource Area boundary shown (in orange) hereon was delineated by Heartland Ecological Group Inc. in February 2020.

HORIZONTAL DATUM PLANE:
 ALL BEARINGS ARE REFERENCED TO GRID NORTH OF THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD-27), IN WHICH THE NORTH LINE OF THE S.W. 1/4 OF SECTION 34, TOWN 8 NORTH, RANGE 18 EAST, BEARS N89°54'10"E.

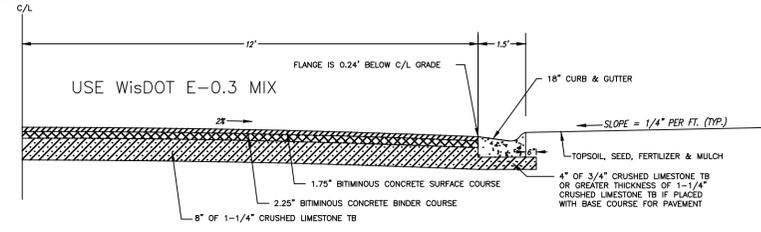
VERTICAL DATUM PLANE:
 All elevations are referenced to the National Geodetic Vertical Datum of 1929 via a ground survey by Trio Engineering, LLC. and Waukesha County GIS topographic data.

DEVELOPER:
 NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072
 PHONE: (262) 542-9200
 FAX: (262) 349-9324

ENGINEER / SURVEYOR:
 TRIO ENGINEERING, LLC
 4100 N CALHOUN ROAD, SUITE 300
 BROOKFIELD, WISCONSIN 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481

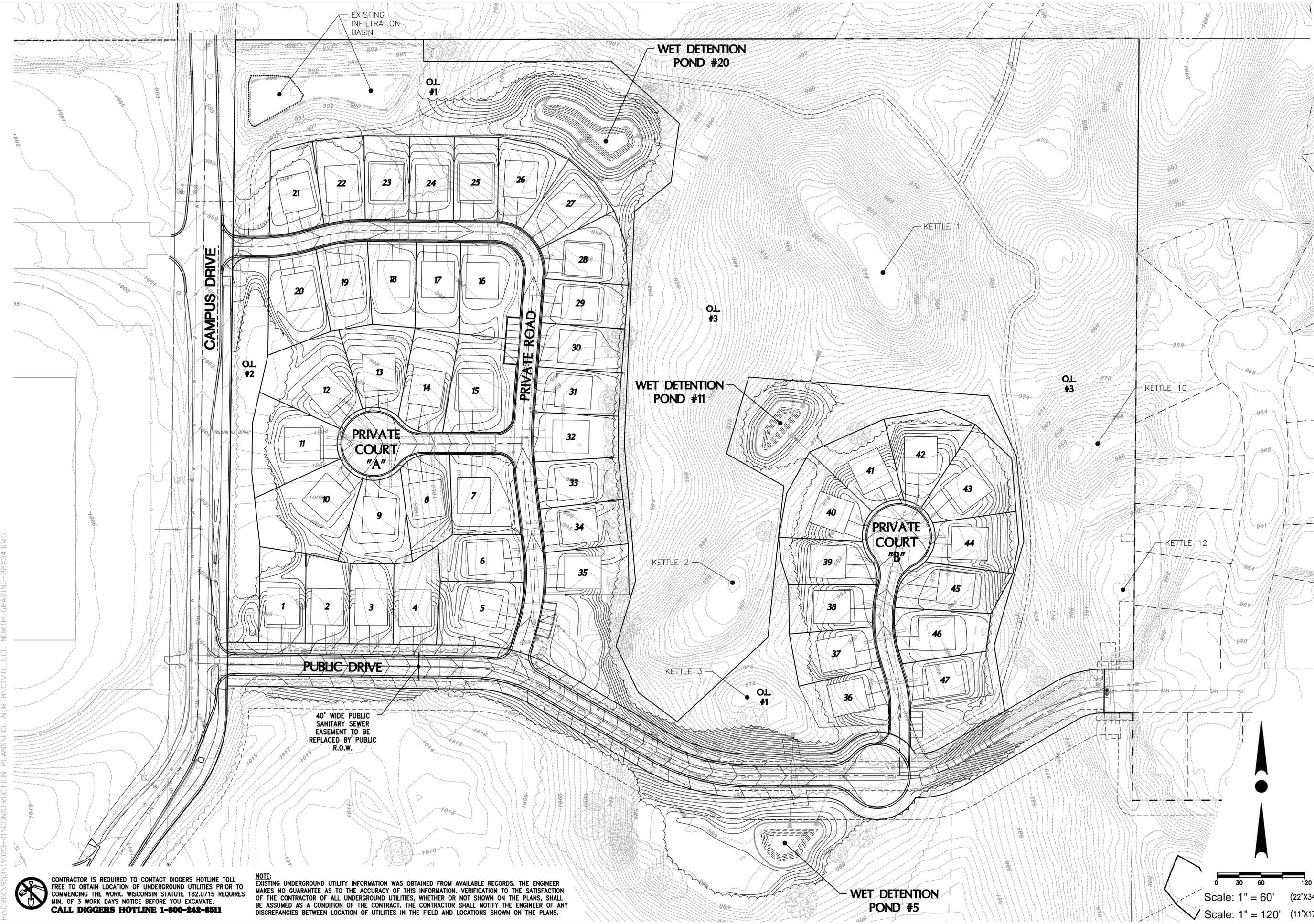


TYPICAL PUBLIC ROAD CROSS SECTION
 26' PAVEMENT WITH 30" STANDARD CURB



TYPICAL PRIVATE ROAD CROSS SECTION
 24' PAVEMENT WITH 18" MOUNTABLE CURB & GUTTER

H:\C9000\953\19023-01\CONSTRUCTION PLANS\CLC\NORTH\ACTIVIL_LCL_NORTH_SITE_PLAN-22X34.DWG

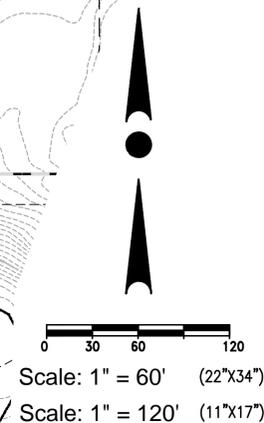


H:\C9000\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH\CIVIL\LCL_NORTH_GRADING-22X34.DWG

 CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. **CALL DIGGERS HOTLINE 1-800-242-8511**

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

40' WIDE PUBLIC SANITARY SEWER EASEMENT TO BE REPLACED BY PUBLIC R.O.W.



PROJECT:
LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 OVERALL
 GRADING PLAN

SHEET
C1.00

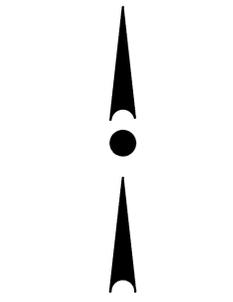


CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

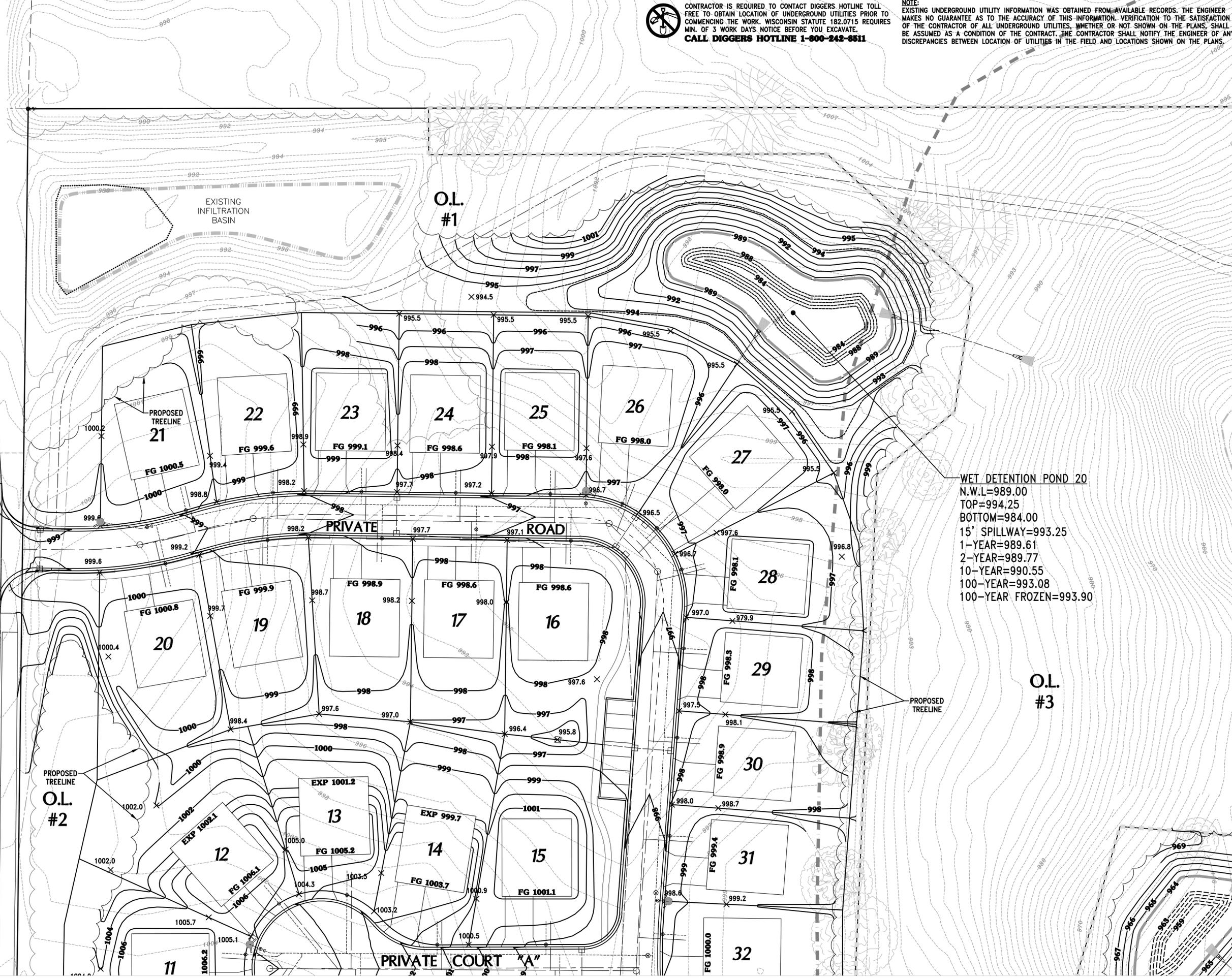


0 15 30 60

Scale: 1" = 30' (22"x34")

Scale: 1" = 60' (11"x17")

H:\C900\953\19023-01\CONSTRUCTION PLANS\LCL NORTH\GRADING-22X34.DWG



WET DETENTION POND 20
 N.W.L.=989.00
 TOP=994.25
 BOTTOM=984.00
 15' SPILLWAY=993.25
 1-YEAR=989.61
 2-YEAR=989.77
 10-YEAR=990.55
 100-YEAR=993.08
 100-YEAR FROZEN=993.90

PROJECT:
LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 GRADING AND
 DRAINAGE PLAN

SHEET
C1.01



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 GRADING AND
 DRAINAGE PLAN

SHEET

C1.02

H:\C9000\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH\CIVIL\LCL_NORTH_GRADING-22X34.DWG



40' WIDE PUBLIC
SANITARY SEWER
EASEMENT TO BE
REPLACED BY PUBLIC
R.O.W.

WET DETENTION POND 5
 N,W,L=981.00
 TOP=987.25
 BOTTOM=976.00
 15' SPILLWAY=985.64
 1-YEAR=981.20
 2-YEAR=981.29
 10-YEAR=981.63
 100-YEAR=982.40
 100-YEAR FROZEN=984.04

Scale: 1" = 30' (22"x34")
 Scale: 1" = 60' (11"x17")

NOTE:
 CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511
 EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

HX:\C900\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH\GRADING-22X34.DWG



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 GRADING AND
 DRAINAGE PLAN

SHEET
C1.03

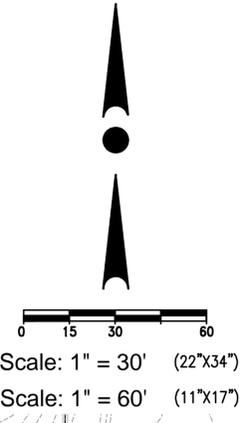


CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
 EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com



WET DETENTION POND 11
 N.W.L.=964.00
 TOP=969.00
 BOTTOM=959.00
 15' SPILLWAY=968.00
 1-YEAR=964.37
 2-YEAR=964.46
 10-YEAR=964.83
 100-YEAR=965.91
 100-YEAR FROZEN=968.34

H:\C9000\953\19023-01\CONSTRUCTION PLANS\LCL NORTH\CIVIL\LCL NORTH_GRADING-22X34.DWG

PROJECT:
LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

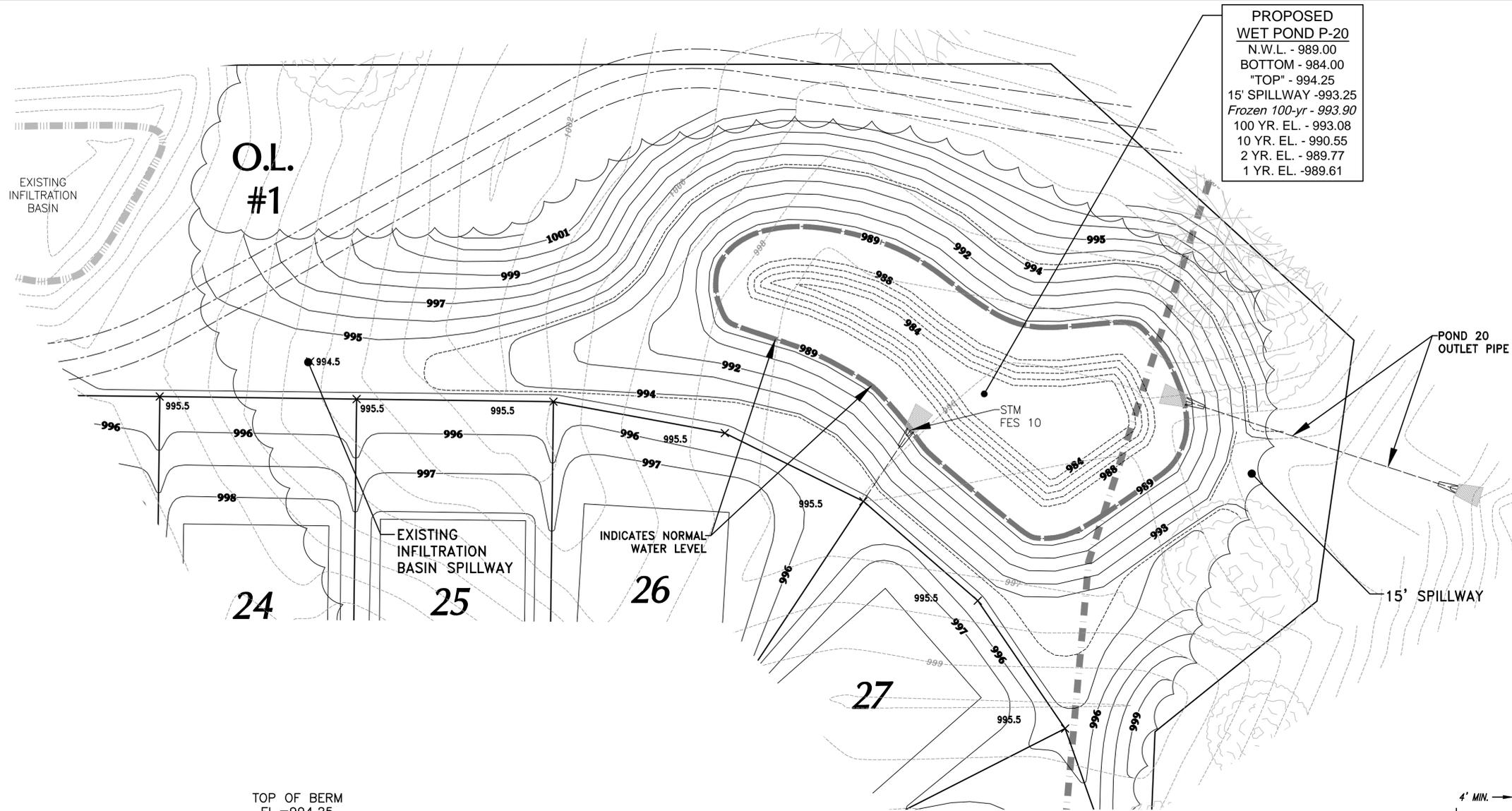
DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 GRADING AND DRAINAGE PLAN

SHEET
C1.04

H:\C900\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH\CIVIL\LCL_NORTH_POND_DETAIL-22X34.DWG

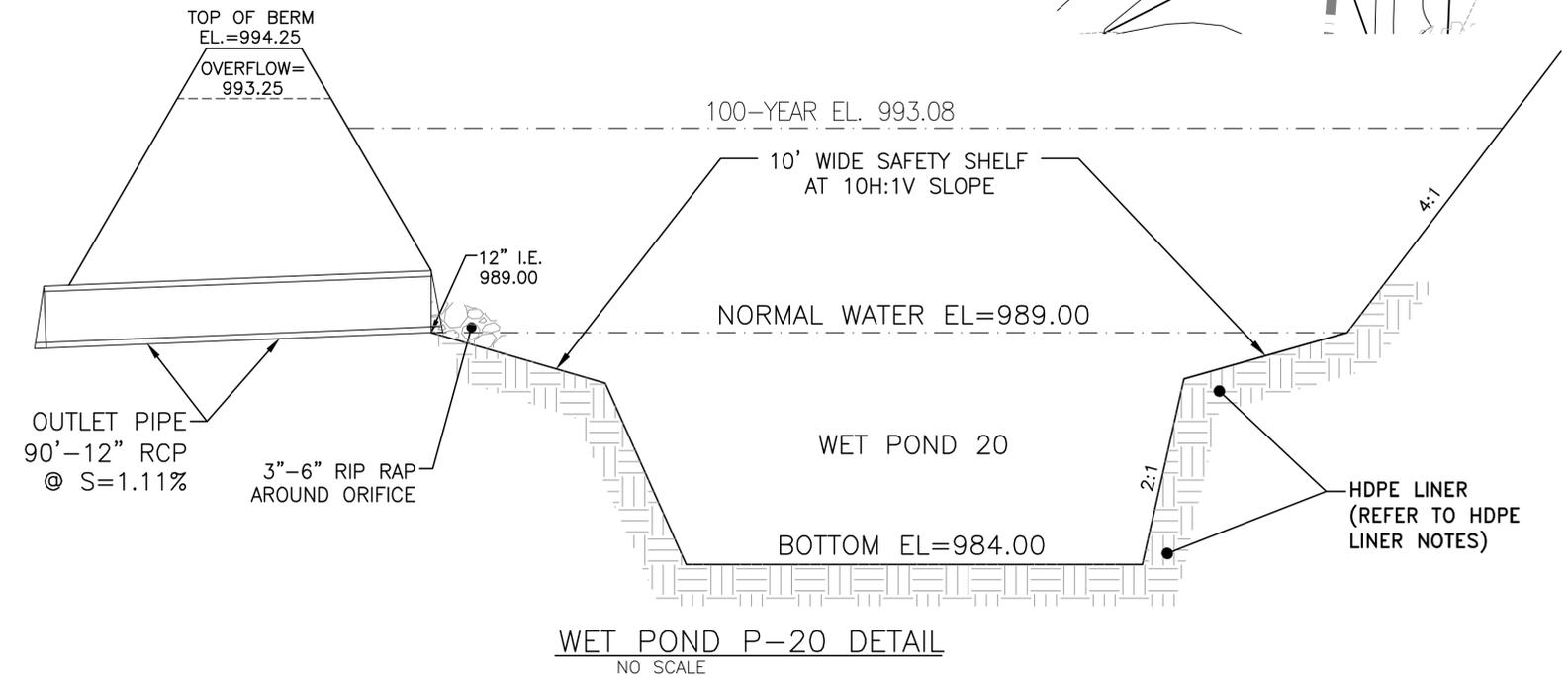
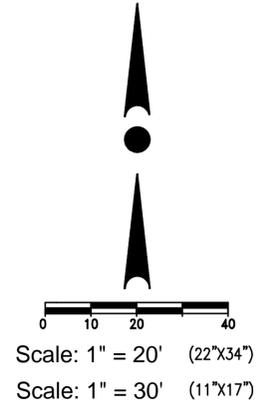


PROPOSED WET POND P-20
 N.W.L. - 989.00
 BOTTOM - 984.00
 "TOP" - 994.25
 15' SPILLWAY - 993.25
 Frozen 100-yr - 993.90
 100 YR. EL. - 993.08
 10 YR. EL. - 990.55
 2 YR. EL. - 989.77
 1 YR. EL. - 989.61

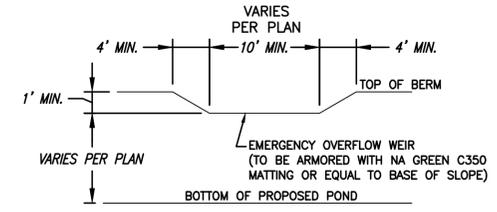
CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
 EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

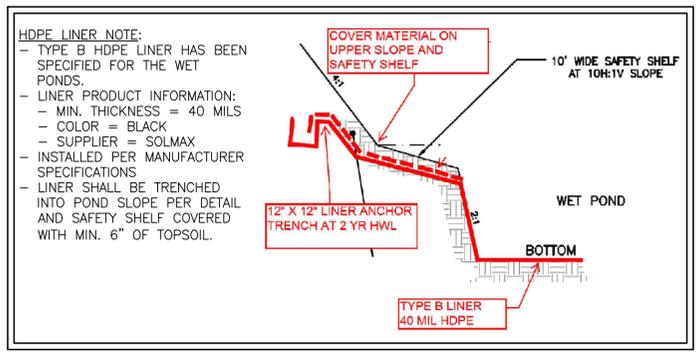
RIP-RAP NOTE:
 RIP-RAP IS TO EXTEND FROM ALL STORM SEWER OUTFALLS TO THE DOWNSLOPE EDGE OF THE WET POND SAFETY SHELL.



WET POND P-20 DETAIL
 NO SCALE



TYPICAL EMERGENCY OVERFLOW WEIR DETAIL
 NOT TO SCALE
 NOTE: GRADES FOR TOP OF BERM, OVERFLOW SPILLWAY, AND BOTTOM OF POND SHALL BE PER PLAN.



PROJECT:
LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 POND DETAIL

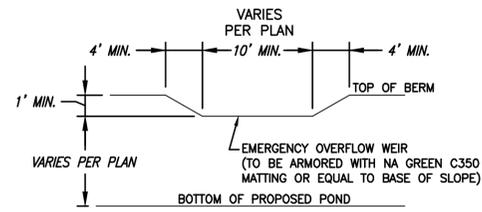
SHEET

C1.05

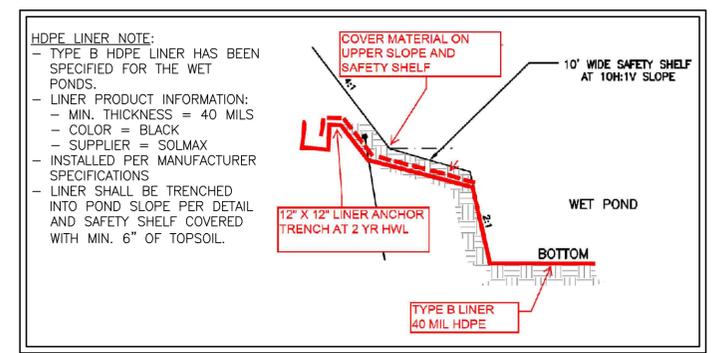
CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

RIP-RAP NOTE:
RIP-RAP IS TO EXTEND FROM ALL STORM SEWER OUTFALLS TO THE DOWNSLOPE EDGE OF THE WET POND SAFETY SHELL.

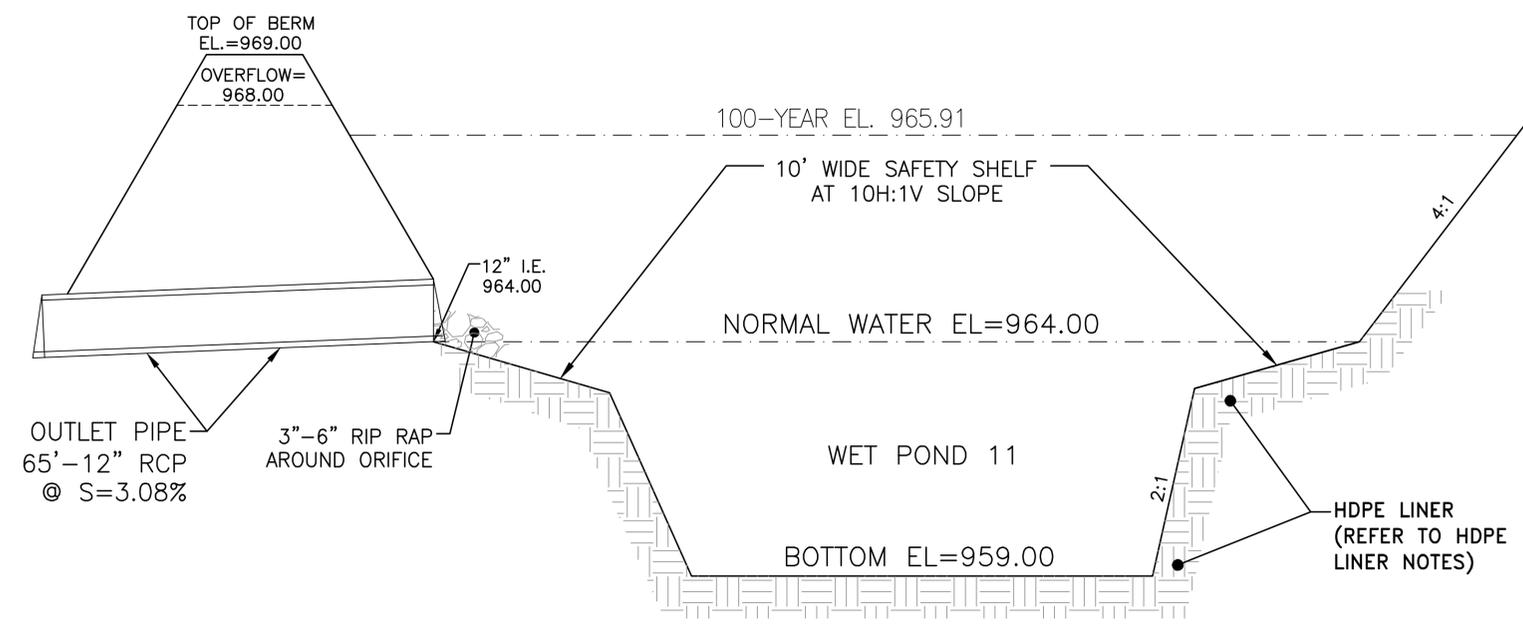
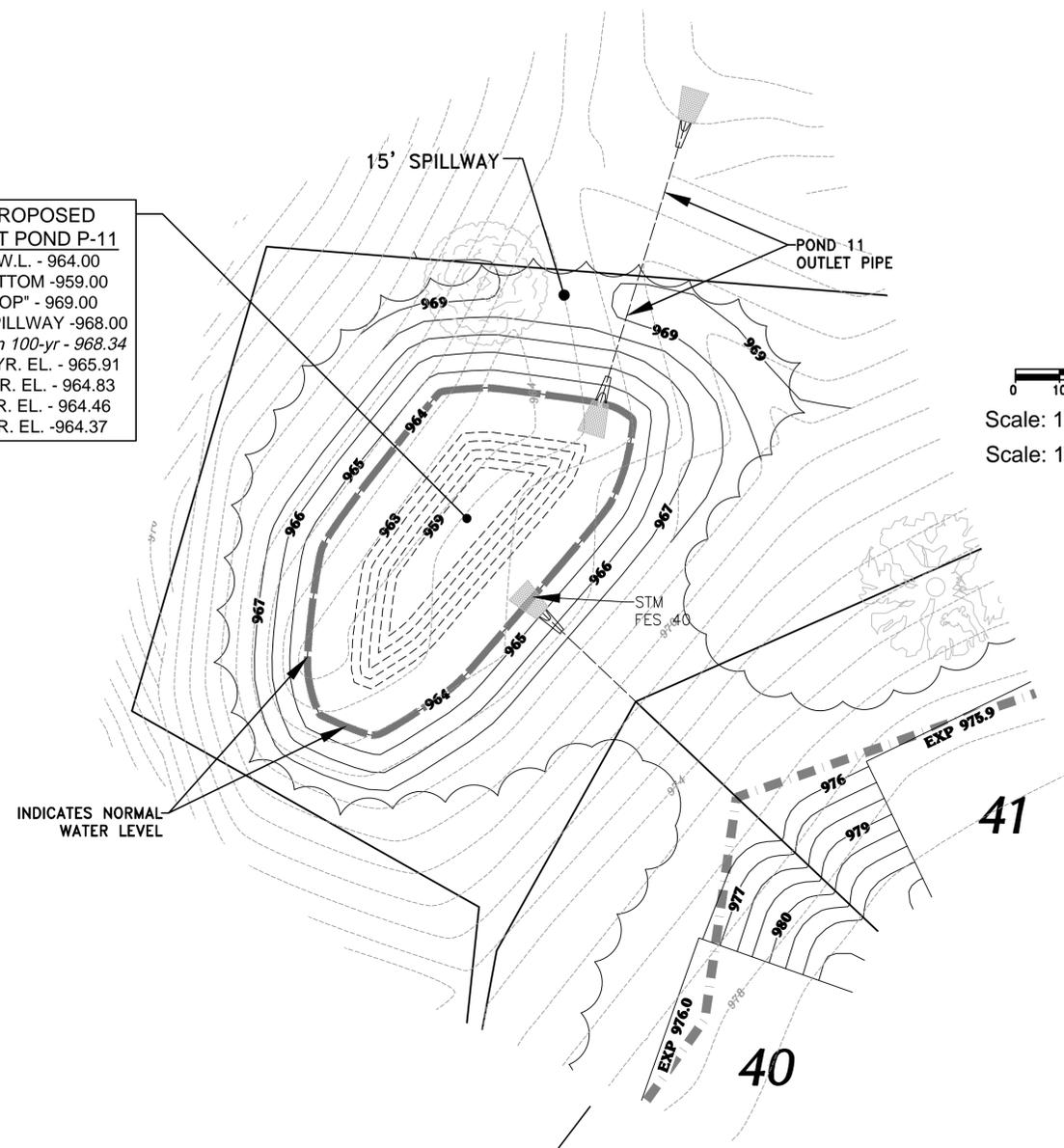


TYPICAL EMERGENCY OVERFLOW WEIR DETAIL
NOT TO SCALE
NOTE: GRADES FOR TOP OF BERM, OVERFLOW SPILLWAY, AND BOTTOM OF POND SHALL BE PER PLAN.



HDPE LINER NOTE:
- TYPE B HDPE LINER HAS BEEN SPECIFIED FOR THE WET PONDS.
- LINER PRODUCT INFORMATION:
- MIN. THICKNESS = 40 MILS
- COLOR = BLACK
- SUPPLIER = SOLMAX
- INSTALLED PER MANUFACTURER SPECIFICATIONS
- LINER SHALL BE TRENCHED INTO POND SLOPE PER DETAIL AND SAFETY SHELF COVERED WITH MIN. 6" OF TOPSOIL.

PROPOSED WET POND P-11
N.W.L. - 964.00
BOTTOM - 959.00
"TOP" - 969.00
15' SPILLWAY - 968.00
Frozen 100-yr - 968.34
100 YR. EL. - 965.91
10 YR. EL. - 964.83
2 YR. EL. - 964.46
1 YR. EL. - 964.37



WET POND P-11 DETAIL
NO SCALE



PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
POND DETAIL

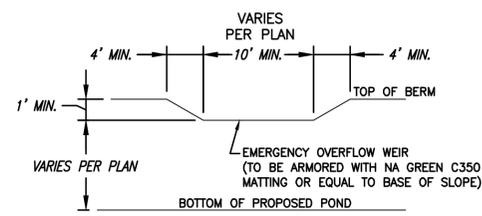
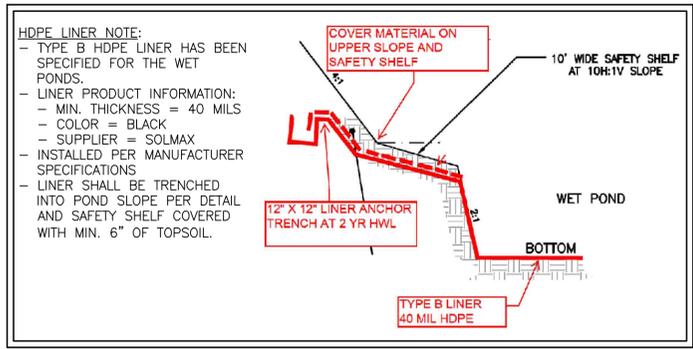
SHEET
C1.06



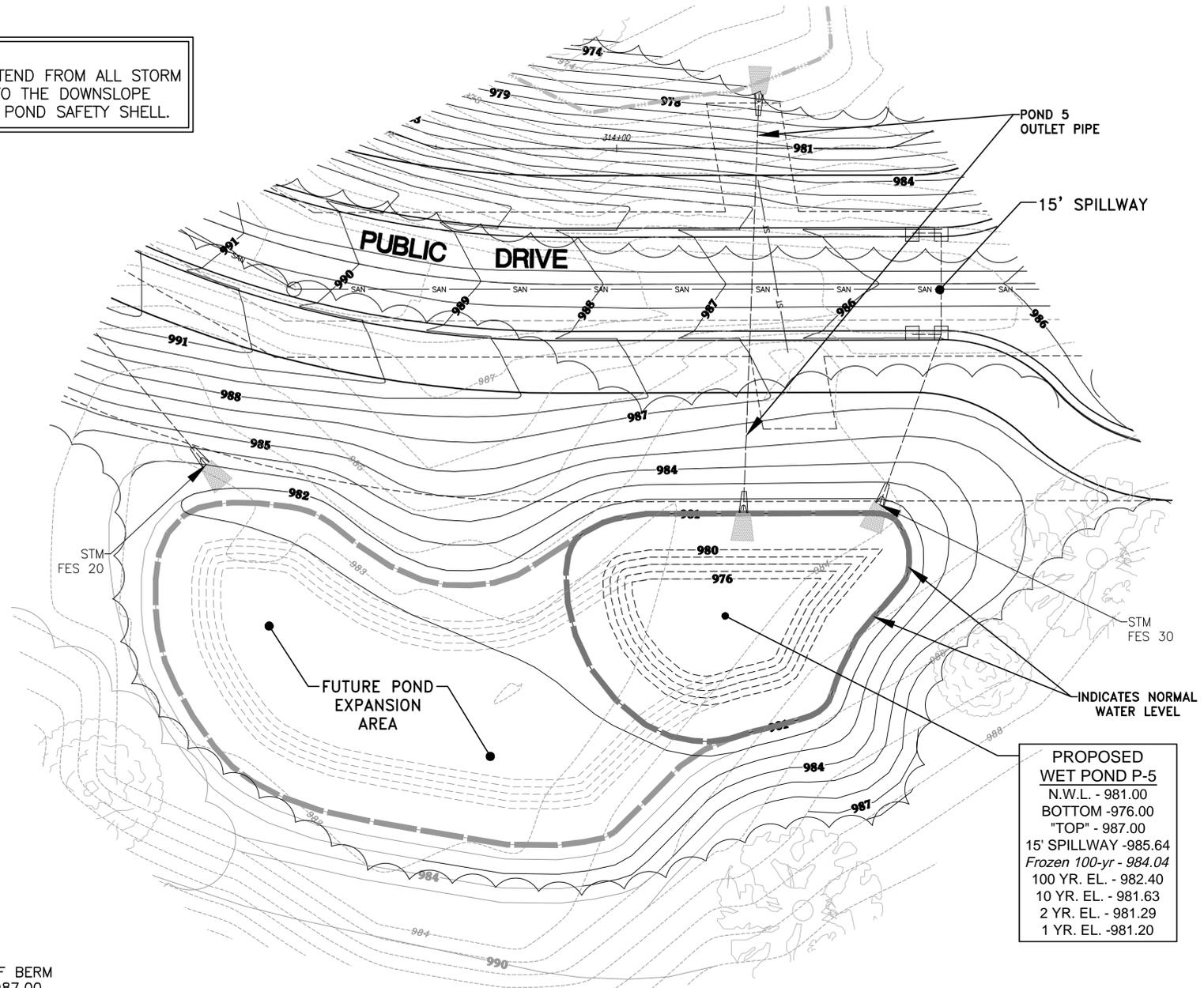
CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

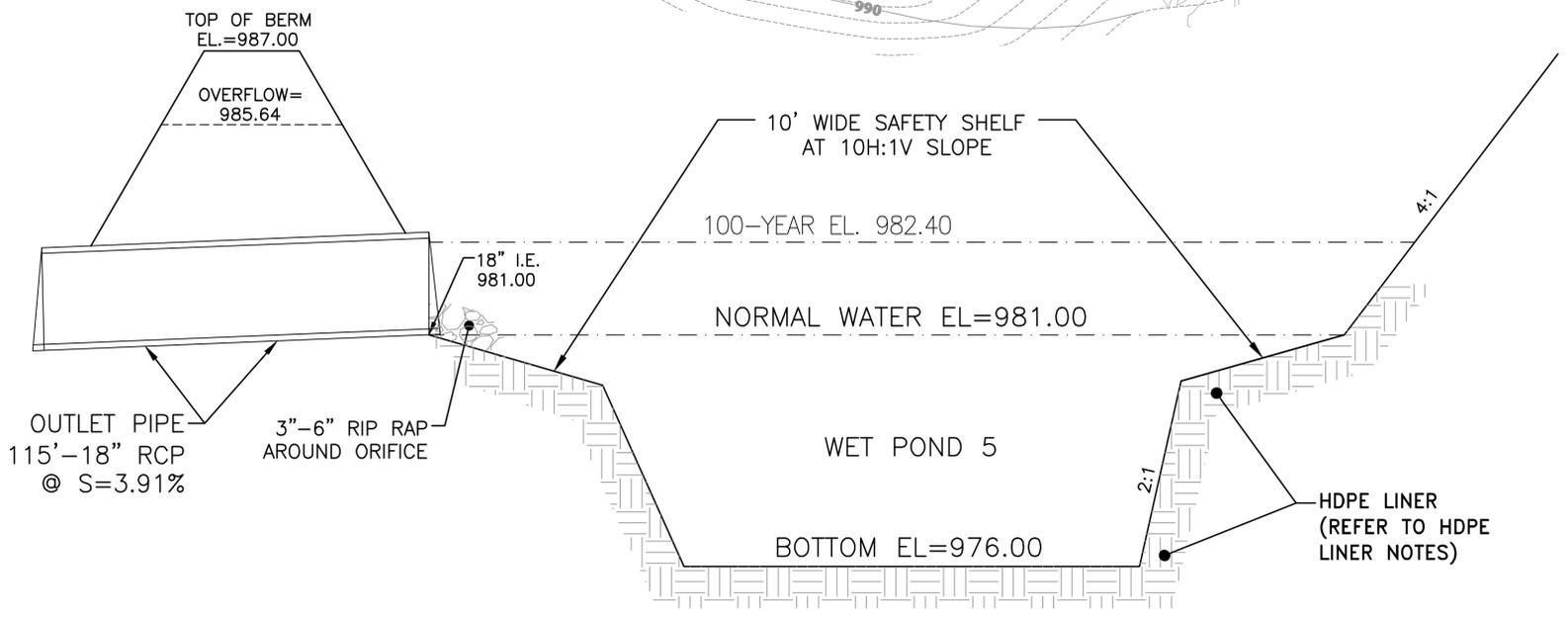
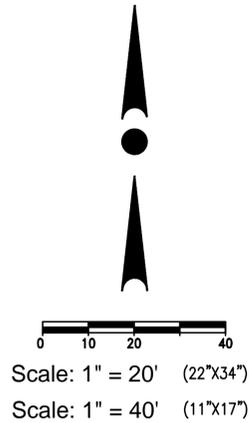
RIP-RAP NOTE:
RIP-RAP IS TO EXTEND FROM ALL STORM SEWER OUTFALLS TO THE DOWNSLOPE EDGE OF THE WET POND SAFETY SHELL.



NOTE: GRADES FOR TOP OF BERM, OVERFLOW SPILLWAY, AND BOTTOM OF POND SHALL BE PER PLAN.



PROPOSED WET POND P-5
 N.W.L. - 981.00
 BOTTOM - 976.00
 "TOP" - 987.00
 15' SPILLWAY - 985.64
 Frozen 100-yr - 984.04
 100 YR. EL. - 982.40
 10 YR. EL. - 981.63
 2 YR. EL. - 981.29
 1 YR. EL. - 981.20



WET POND P-5 DETAIL
NO SCALE



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

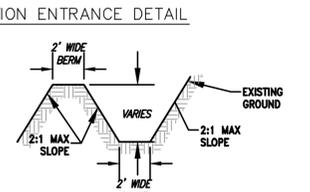
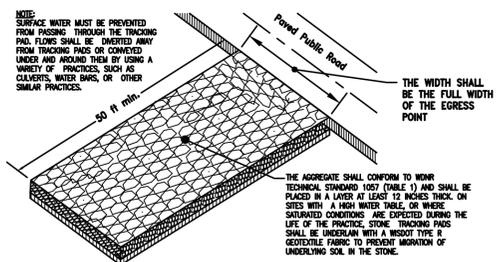
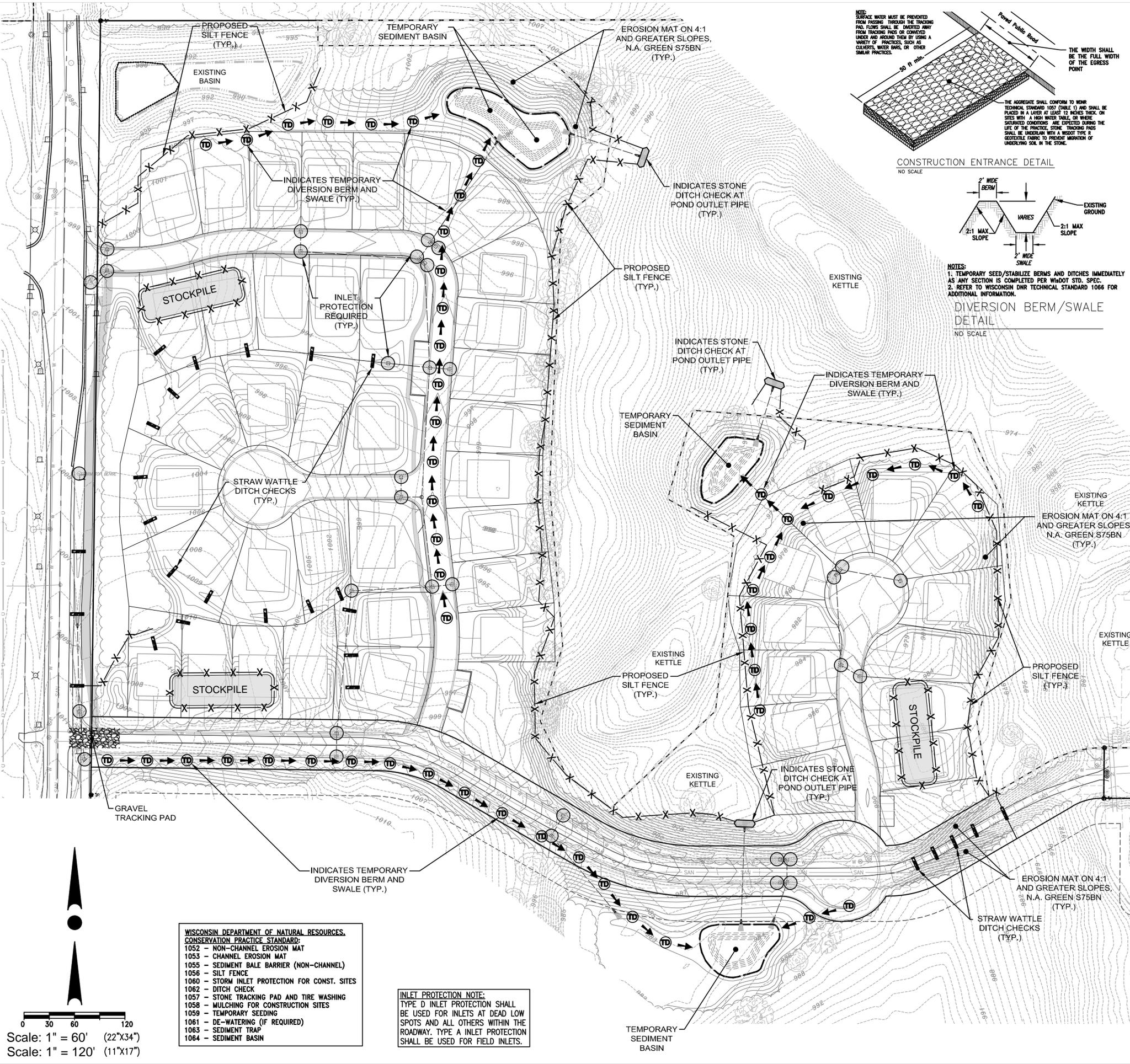
DESCRIPTION:
POND DETAIL

SHEET

C1.07

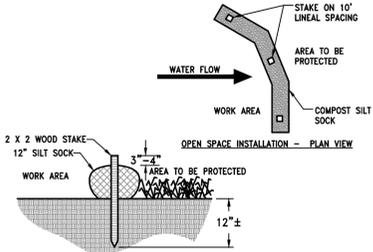
H:\C900\953\19023-01\CONSTRUCTION PLANS\CL_NORTH\CIVIL\LCL_NORTH_POND_DETAIL-22X34.DWG

\\FAC\9000\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH\EROSION CONTROL.DWG



- EROSION CONTROL NOTES:**
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS AND THE CITY OF PEWAUKEE TECHNICAL STANDARDS.
 - EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN, DETAILING SPECIFIC MEASURES THAT WILL BE USED IN THE VARIOUS STAGES OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER, THE WISCONSIN DNR AND THE CITY OF PEWAUKEE.
 - IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
 - EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - DIVERT UPSTREAM RUNOFF FROM FLOWING THROUGH THE CONSTRUCTION SITE.
 - PROTECT DOWNSTREAM OR ADJACENT WATERWAYS AND WETLANDS WITH SILT FENCE.
 - DELAY STRIPPING TOPSOIL UNTIL REQUIRED FOR CONSTRUCTION.
 - PLACE STRAW WATTLES OR SILT LOGS IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH STRAW WATTLES OR SILT LOGS.
 - PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - CONSTRUCTION OF TRACKING PAD TO CONSTRUCTION SITE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15, MUST BE TEMPORARY SEED AS OF THAT DATE.
 - TEMPORARY EROSION CONTROL MEASURES:
 - THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES, WHERE EROSION IS LIKELY TO BE A PROBLEM, PRIOR TO BEGINNING WORK ON THOSE SECTION(S) OF THE PROJECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER PERMANENT EROSION CONTROL, SUCH AS SEEDING OR SOODING, HAS BEEN ESTABLISHED.
 - IN THE EVENT THE PERMANENT EROSION CONTROL MEASURES ARE NOT FULLY IMPLEMENTED IN CURRENT CONSTRUCTION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL AFTER PERMANENT MEASURES HAVE BEEN COMPLETED IN THE FOLLOWING YEAR.
 - ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
 - TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDR AND THE CITY OF PEWAUKEE TECHNICAL STANDARDS.
 - ALL PUMPED EFFLUENT FROM DEWATERING OPERATIONS (TRENCH DEWATERING OR OTHERWISE) SHALL BE DISCHARGED TO A GEOTEXTILE FILTER BAG CONFORMING TO WDR CONSERVATION PRACTICE STANDARD 1061. THE GEOTEXTILE FILTER BAG SHALL BE PLACED ON VEGETATED/STABILIZED GROUND AND DISCHARGE TO A SEDIMENT BASIN OR TRAP. SHOULD NO BASIN EXIST, THE GEOTEXTILE BAG SHALL BE PLACED ON FILTER FABRIC AND SURROUNDED BY A SEDIMENT BALE BARRIER CONFORMING TO CONSERVATION PRACTICE STANDARD 1055. THE FILTER FABRIC SHALL BE BROUGHT UP THE SIDES AND OVER THE TOP OF THE BALE AND SECURED. DISCHARGE SHALL NOT BE ALLOWED TO FLOW OVER UNPROTECTED GROUND. IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS PRIOR TO SEDIMENT REMOVAL.
 - INSTALL SILT FENCE IN ACCORDANCE WITH WDR TECHNICAL STANDARD DETAILS.
 - ALL RIP RAP AT PIPE OUTLETS SHALL BE 3'x5' MEDIUM RIP RAP OVER TYPE HR FABRIC PER WDOT SPECIFICATIONS UNLESS OTHERWISE DESIGNATED.
 - EROSION CONTROL INSPECTION AND MAINTENANCE
 - INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
 - REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.
 - ALL AREAS TO BE SEED AND MULCHED SHALL USE WDOT SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WDOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.

- CONSTRUCTION SEQUENCE PLAN**
- INSTALL SILT FENCE, STRAW WATTLE & STONE DITCH CHECKS.
 - STRIP TOPSOIL, SEED AND STABILIZE STOCKPILES IMMEDIATELY UPON COMPLETION OF STOCKPILING.
 - INSTALL DIVERSION BERMS AND SWALES. BEGIN MASS GRADING OF THE REMAINDER OF SITE (MASS GRADING MAY ONLY OCCUR/CONTINUE AFTER EROSION CONTROL MEASURES ARE INSTALLED/CONSTRUCTED (SEDIMENT BASINS, SILT TRAPS, SWALES, DITCH CHECKS, ETC)).
 - ROUGH GRADE SITE. NOTE THAT ROUGH GRADING MAY OCCUR CONCURRENT WITH CONSTRUCTION OF THE DIVERSION BERMS/SWALES. BEGIN UTILITIES ONCE STORM WATER IS CONTROLLED.
 - INSTALL SANITARY SEWER AND WATER MAIN. COMPLETE ALL TESTING AND CONTACT THE VILLAGE PRIOR TO CONNECTING TO EXISTING MAINS. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH ROUGH GRADING ONCE THE UTILITY AREAS HAVE BEEN GRADED TO SUBGRADE.
 - SUMMER 2019: INSTALL STORM SEWER AND ASSOCIATED EROSION CONTROL MEASURES PER EROSION CONTROL PLAN. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH SANITARY SEWER AND WATER MAIN INSTALLATION.
 - FINISH GRADE THE SITE. NOTE THAT THIS STEP MAY OCCUR CONCURRENT WITH STORM SEWER INSTALLATION.
 - RE-SPREAD TOPSOIL AND PLACE SEED, MULCH, MATTING AND OTHER SITE STABILIZERS AS NEEDED. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING AND ROAD CONSTRUCTION. ALSO NOTE THAT ANY AREAS, SUCH AS POND SLOPES, THAT ARE FINISH GRADED AND TOPSOILED SHALL BE SEED, MULCHED AND/OR MATTED IMMEDIATELY AFTER TOPSOIL IS PLACED. NOTE: TOPSOIL IN RIGHT-OF-WAY ONLY AFTER WE ENERGIES WORK IS COMPLETED.
 - INSTALL STONE BASE COURSE, CONSTRUCT CURB AND SIDEWALK, AND PLACE BINDER COURSE PAVEMENT. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING.
 - REMOVE TRACKING PAD ONCE ROADS ARE STONED/COMPLETE. RESTORE DISTURBED AREA.
 - COMPLETE DRY PONDS. REMOVE SEDIMENT TRAP SILT, CONSTRUCT DRY POND BOTTOM PER DESIGN PLAN, AND TOPSOIL, SEED, MULCH OR MAT. SEED BOTTOM OF DRY POND WITH RAIN GARDEN OR INFILTRATION BASIN NATIVE SEED MIX. STABILIZE SLOPES AS NECESSARY.
 - LATE SEASON (AFTER OCTOBER 15) STABILIZATION NOTES:
 - ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15 MUST BE TEMPORARY SEED AS OF THAT DATE.
 - ANY FINAL SITE STABILIZATION THAT OCCURS AFTER OCTOBER 15 MAY REQUIRE CONTRACTOR TO COVER DISTURBED AREAS WITH THE ANIONIC FORM OF POLYACRYLAMIDE (PAM), PER WDR TECHNICAL STANDARD 1050 AND W8DOT PAL LIST. CONTRACTOR SHALL COORDINATE WITH VILLAGE ENGINEER AND WDR FOR LATE SEASON STABILIZATION REQUIREMENTS.
 - REMOVE CONSTRUCTION EROSION CONTROL MEASURES AFTER SITE IS STABILIZED (SUBSTANTIALLY VEGETATED) AND ALL CONSTRUCTION IS COMPLETE.



- PROFILE VIEW**
- ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
 - REFER TO MANUFACTURERS AND/OR SUPPLIERS. SPECIFICATIONS FOR INSTALLATION RECOMMENDATIONS.
 - ACTUAL LOCATION MAY BE FIELD ADJUSTED TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION.
 - INSTALL EVERY 200' OR 2' GRADE DROP IN SWALES.

STRAW WATTLE DITCH CHECK INSTALLATION DETAIL
NO SCALE

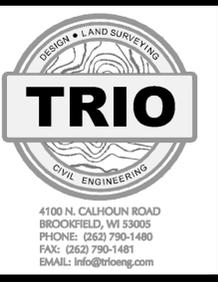
CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

- WISCONSIN DEPARTMENT OF NATURAL RESOURCES. CONSERVATION PRACTICE STANDARD:**
- 1052 - NON-CHANNEL EROSION MAT
 - 1053 - CHANNEL EROSION MAT
 - 1055 - SEDIMENT BALE BARRIER (NON-CHANNEL)
 - 1056 - SILT FENCE
 - 1060 - STORM INLET PROTECTION FOR CONST. SITES
 - 1062 - DITCH CHECK
 - 1057 - STONE TRACKING PAD AND TIRE WASHING
 - 1058 - MULCHING FOR CONSTRUCTION SITES
 - 1059 - TEMPORARY SEEDING
 - 1061 - DE-WATERING (IF REQUIRED)
 - 1063 - SEDIMENT TRAP
 - 1064 - SEDIMENT BASIN

INLET PROTECTION NOTE:
TYPE D INLET PROTECTION SHALL BE USED FOR INLETS AT DEAD LOW SPOTS AND ALL OTHERS WITHIN THE ROADWAY. TYPE A INLET PROTECTION SHALL BE USED FOR FIELD INLETS.

Scale: 1" = 60' (22"x34")
Scale: 1" = 120' (11"x17")



PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY

DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

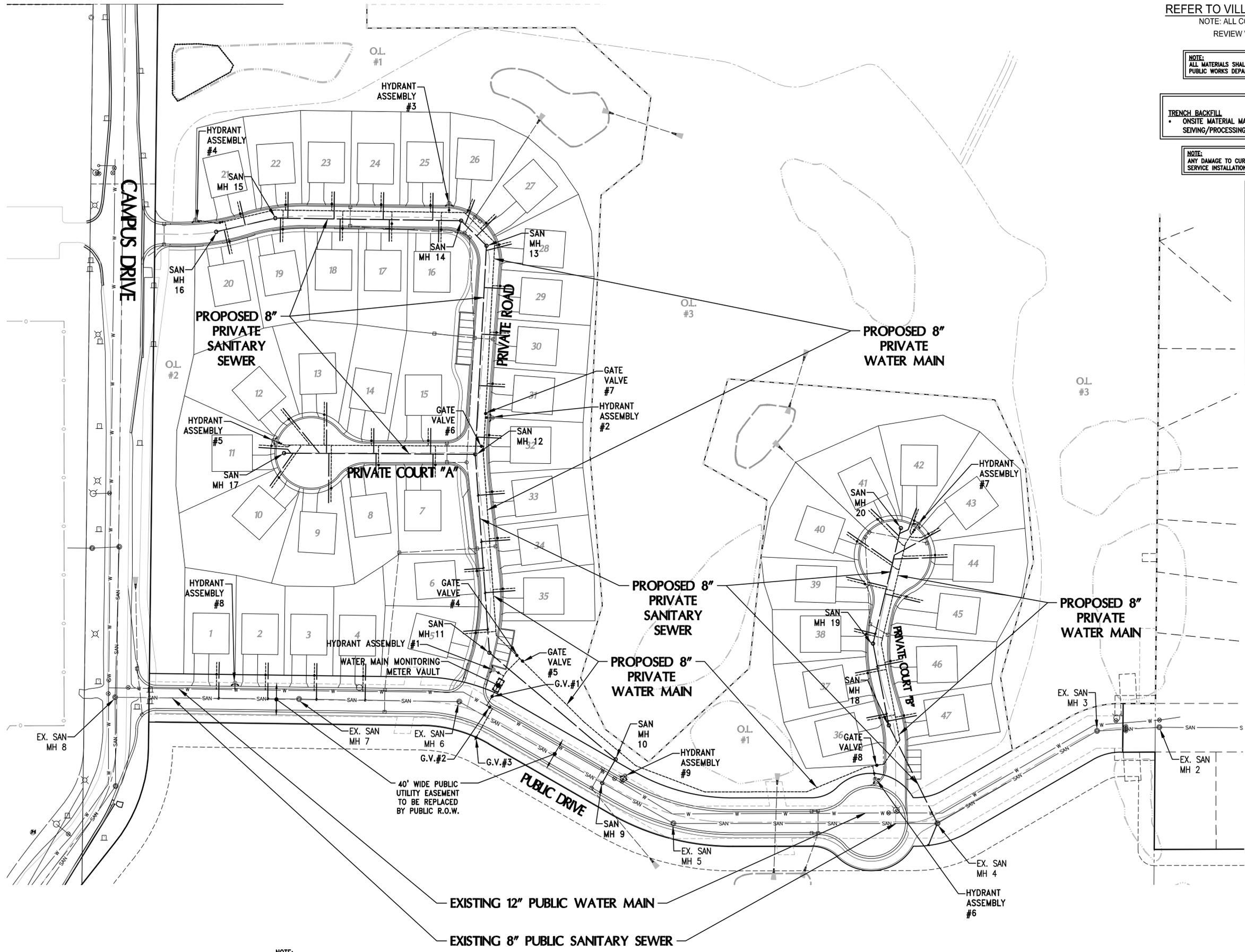
JOB NUMBER:
19023-953

DESCRIPTION:
EROSION CONTROL PLAN

SHEET

C2.00

H:\C9000\953\19023-01\CONSTRUCTION PLANS\CLC_NORTH_SAN&WM_P&P-22X34.DWG



REFER TO VILLAGE SPECS. ON SHEET C6.0

NOTE: ALL CONTRACTORS ARE REQUIRED TO REVIEW VILLAGE SPECS AND DETAILS

NOTE: ALL MATERIALS SHALL BE APPROVED BY THE VILLAGE OF HARTLAND PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.

BACKFILL NOTES
TRENCH BACKFILL
 • ONSITE MATERIAL MAY BE USED AS GRANULAR BACKFILL WITH PROPER SIEVING/PROCESSING TO MEET VILLAGE SPECIFICATIONS.

NOTE: ANY DAMAGE TO CURB BY UNDERMINING OR SETTLING FOR SEWER/WATER SERVICE INSTALLATIONS SHALL BE REPAIRED BY THE DEVELOPER.

SANITARY SEWER NOTES
SANITARY SEWER
 • ALL PVC SEWER PIPE SHALL MEET THE REQUIREMENTS SET FORTH IN SECTION 8.10.0 (SSSWCW).
 • ALL SANITARY MANHOLES SHALL MEET THE REQUIREMENTS SET FORTH IN SSSWCW.
 • ALL SANITARY SEWER LATERALS (OUTSIDE OF BUILDINGS) SHALL BE MADE OF GASKETED PVC FITTINGS MEETING ASTM D-3034, SDR 35.
 • GREEN TRACER WIRE IS REQUIRED FOR ALL SANITARY SEWER & LATERALS.
 • ALL SANITARY SEWER LATERALS SHALL BE 6" DIA. SDR-35 PVC & MADE OF GASKETED PVC FITTINGS MEETING ASTM D-3034.
 • ALL SANITARY SEWER LATERALS SHALL CONFORM TO VILLAGE SPECS AND SECTION 3.2.26 & FILE NO.10E OF SSSWCW.

TRACER WIRE NOTE
 • CONTRACTOR SHALL INSTALL GREEN PLASTIC COATED TRACER WIRE (10 GAUGE SOLID COPPER). PLASTIC WIRE MAY BE TAPED TO PLASTIC DRAIN PIPE. IF ATTACHED, THE TRACER SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. SPLICES SHALL BE CONNECTED BY USING A SNAKEBITE LOCKING CONNECTOR OR APPROVED EQUAL. INSTALL DETECTOR WIRE AT EVERY MAIN, LATERAL, AND MANHOLE. SANITARY WIRES MAY BE PLACED INTO THE MANHOLE BELOW THE FRAME. AN ANODE ROD SHALL BE INSTALLED AT ALL DEAD ENDS, INCLUDING LATERALS.

WATERMAIN NOTES
WATER MAIN
 • ALL 8" AND 6" PVC WATER MAIN CONSTRUCTION AS PART OF THIS PLAN SHALL BE PVC, C-300, CLASS 150 (DR18). PVC PIPE SHALL HAVE PUSH-ON JOINTS WITH RUBBER GASKET.
 • INSULATION TO WATER MAINS AND LATERALS SHALL BE PROVIDED AT ALL STORM SEWER CROSSINGS.
 • ALL WATER MAINS (AND SERVICES) CALLED FOR ON THESE PLANS ARE TO BE INSTALLED WITH CLASS "B" BEDDING AS SPECIFIED IN CH. 4.3.0, LAYING OF WATER MAIN, AND FILE NO. 36, PART VII (SSSWCW).
 • BLUE TRACER WIRE IS REQUIRED FOR ALL WATER MAIN & LATERALS.
 • WATER MAIN SERVICES SHALL BE 1 1/4" POLYETHYLENE TUBING.
 • MIN. 7" BURY DEPTH

TRACER WIRE NOTE
 • CONTRACTOR SHALL INSTALL BLUE PLASTIC COATED TRACER WIRE (10 GAUGE SOLID COPPER). PLASTIC WIRE MAY BE TAPED TO PLASTIC PIPE. IF ATTACHED, THE TRACER SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. SPLICES SHALL BE CONNECTED BY USING A SNAKEBITE LOCKING CONNECTOR OR APPROVED EQUAL. INSTALL DETECTOR WIRE AT EVERY MAIN, LATERAL, HYDRANT, CURB STOP, AND VALVE BOX. TRACER WIRES SHALL BE WRAPPED AROUND THE CURB STOP AND HYDRANT AT GROUND LEVEL. AN ANODE ROD SHALL BE INSTALLED AT ALL DEAD ENDS, INCLUDING HYDRANTS AND LATERALS.



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

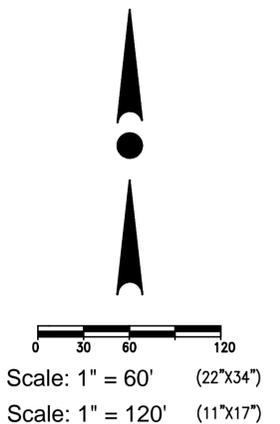
DESCRIPTION:
 SANITARY SEWER
 & WATER MAIN
 SYSTEM PLAN

SHEET

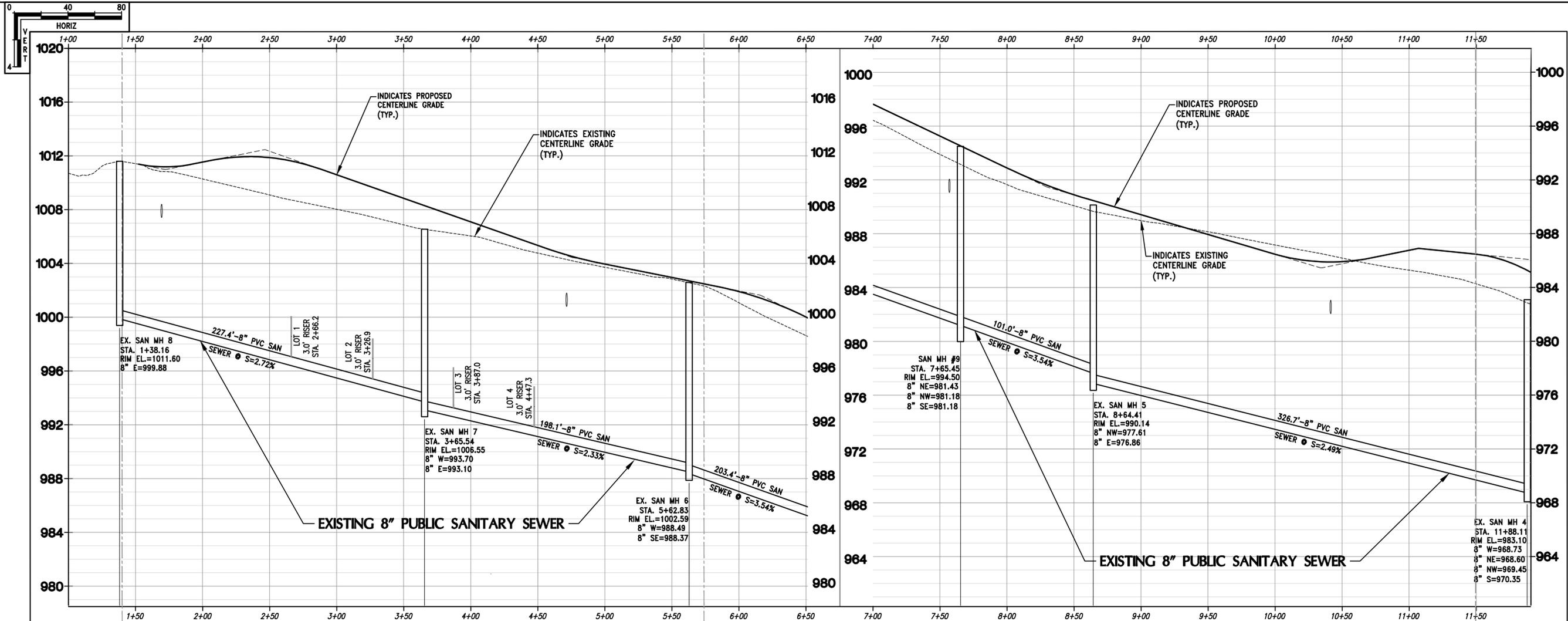
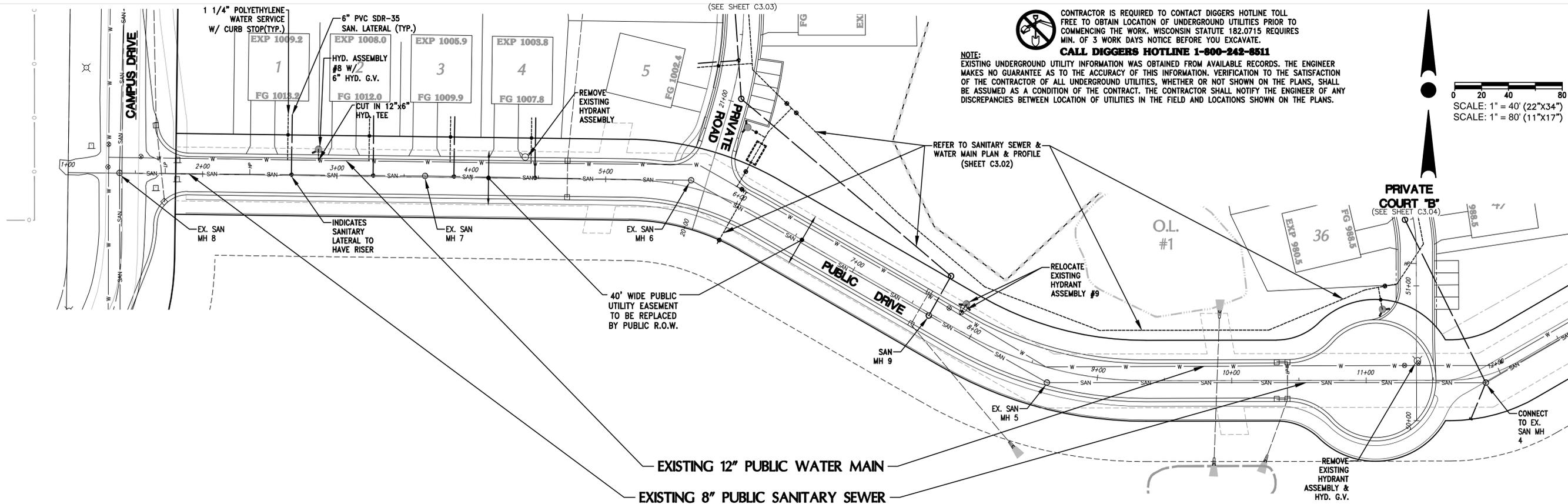
C3.00

CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



H:\C9000\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH_SAN&WM_P&P-22X34.DWG



WISCONSIN
 JOSHUA D. PUDELKO
 E-39420 WAUWATOSA, WI
PROFESSIONAL ENGINEER

TRIO
 CIVIL ENGINEERING

4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

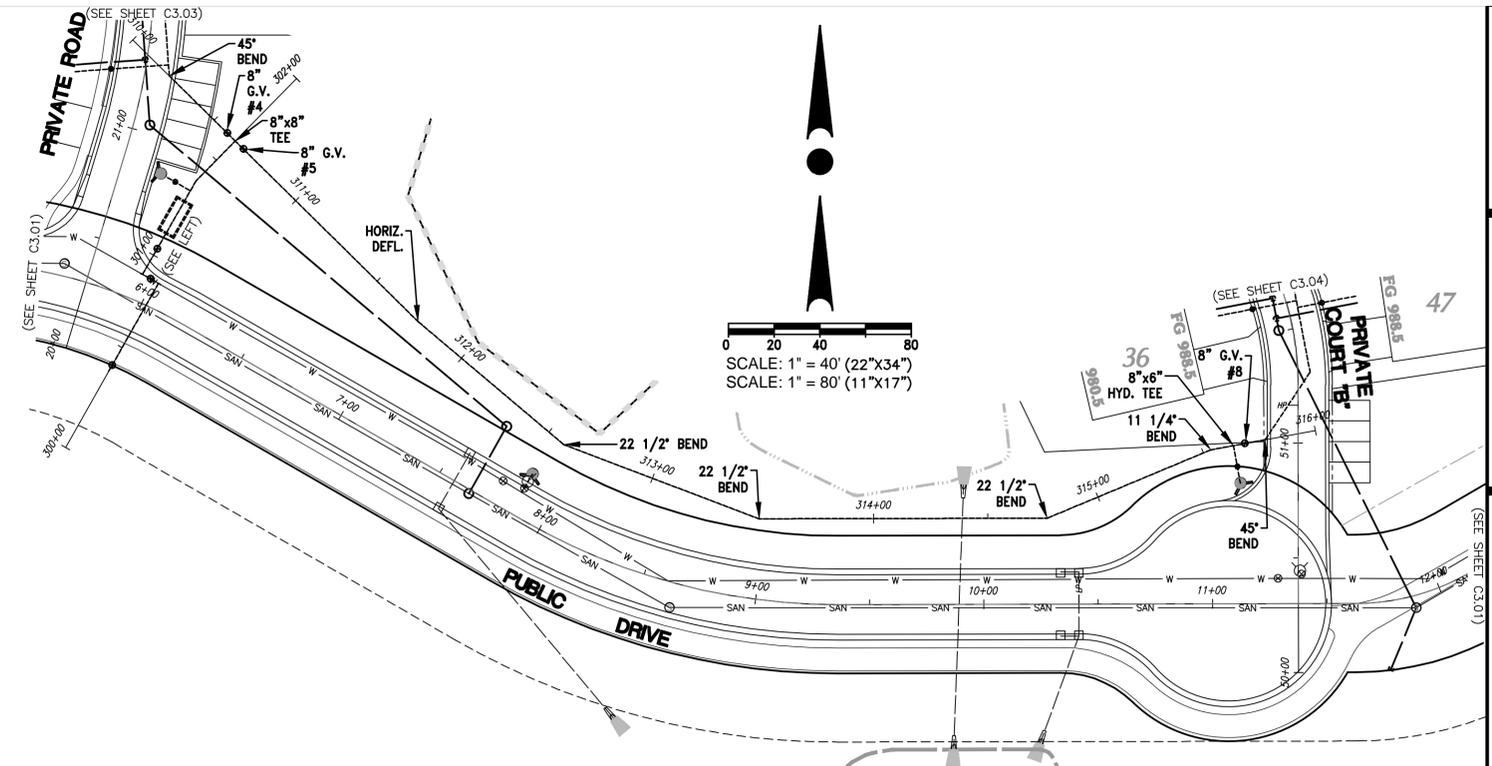
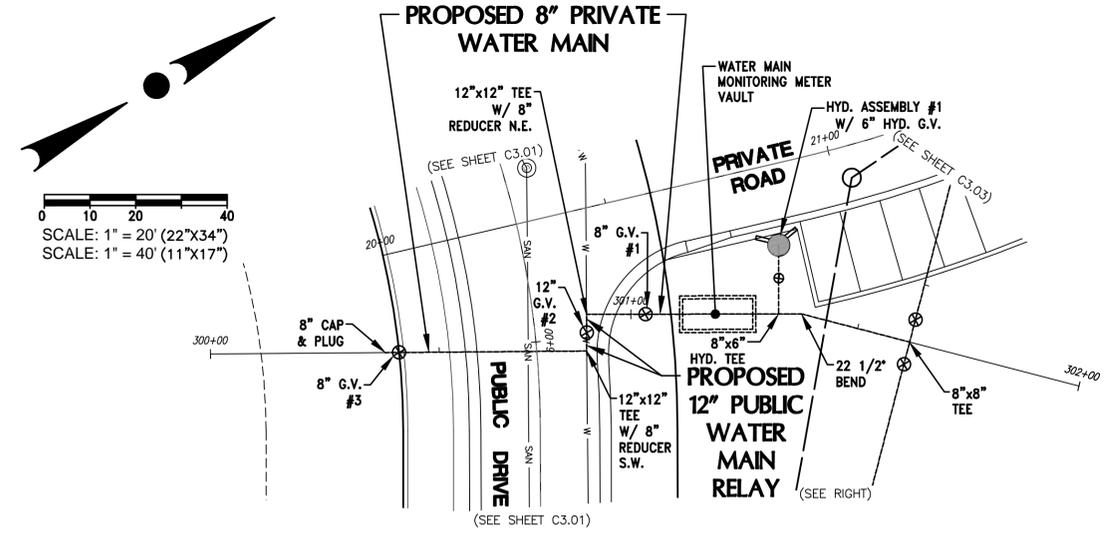
REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

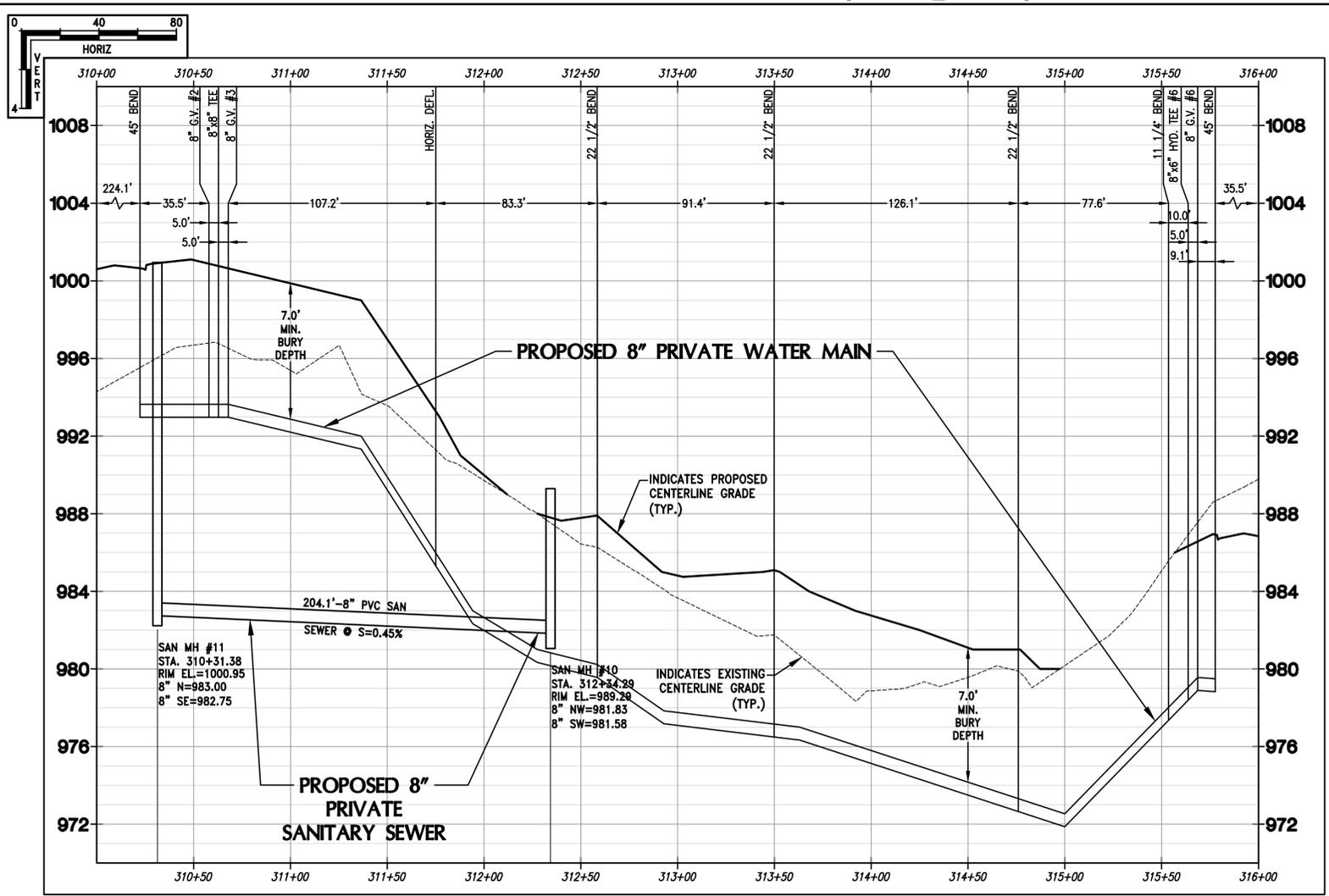
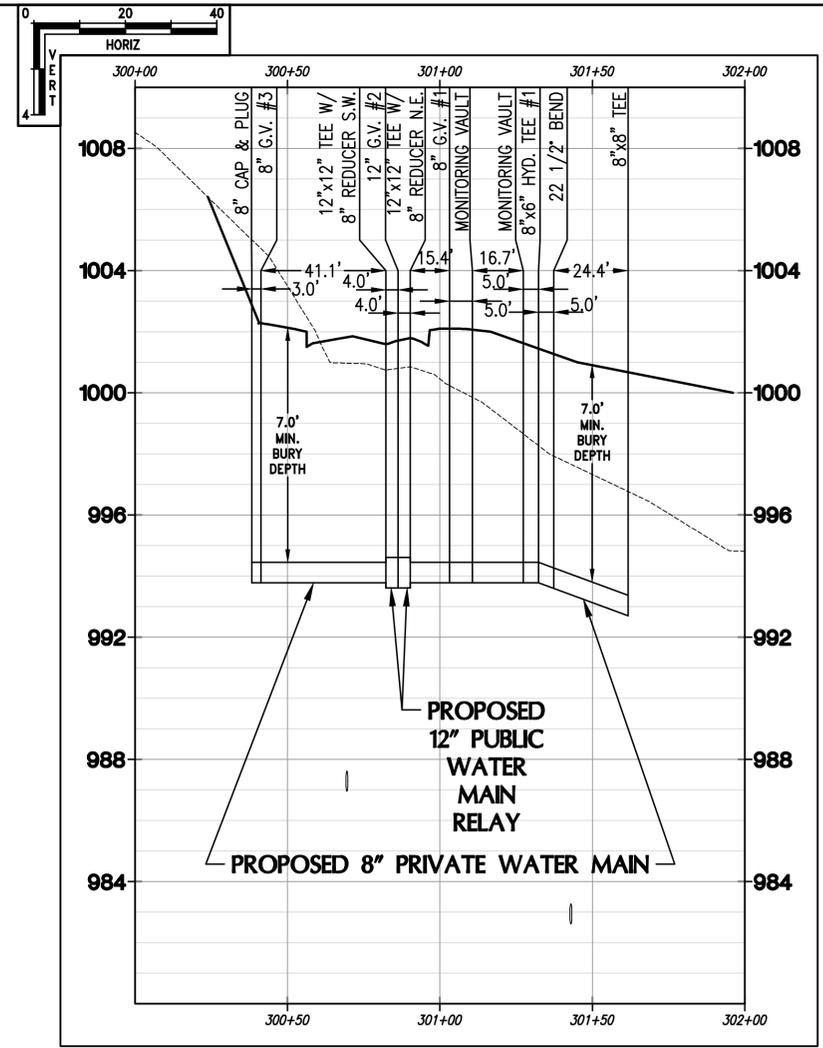
DESCRIPTION:
 SANITARY SEWER
 & WATER MAIN
 PLAN & PROFILE

SHEET
C3.01



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
 LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

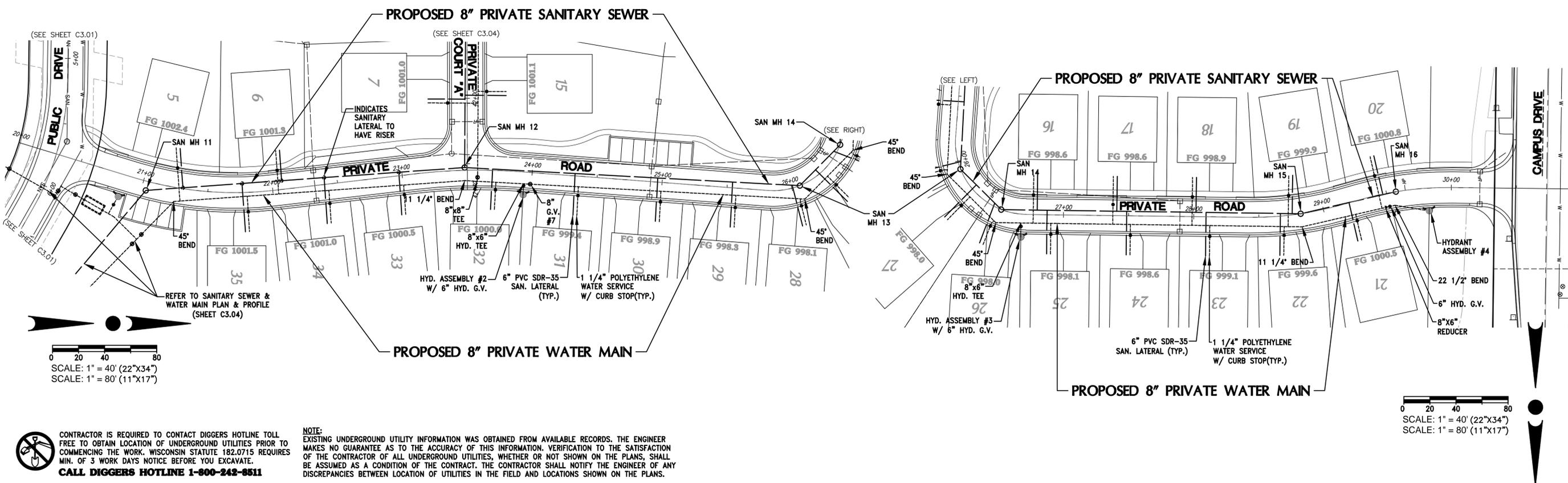
JOB NUMBER:
 19023-953

DESCRIPTION:
 SANITARY SEWER
 & WATER MAIN
 PLAN & PROFILE

SHEET

C3.02

H:\C9000\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH_SAN&WM_P&P-22X34.DWG



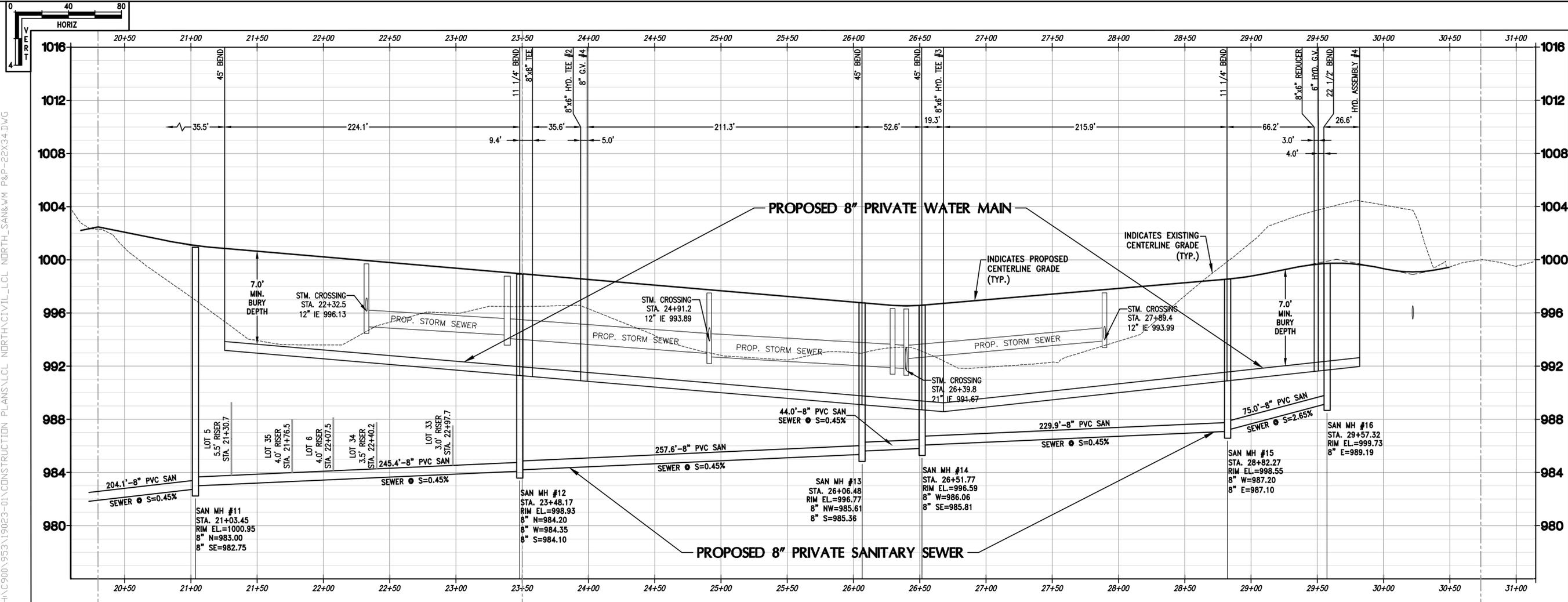
SCALE: 1" = 40' (22"x34")
SCALE: 1" = 80' (11"x17")

SCALE: 1" = 40' (22"x34")
SCALE: 1" = 80' (11"x17")



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



H:\C900\953\19023-01\CONSTRUCTION PLANS\CLC NORTH_SAN&WM P&P-22X34.DWG



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

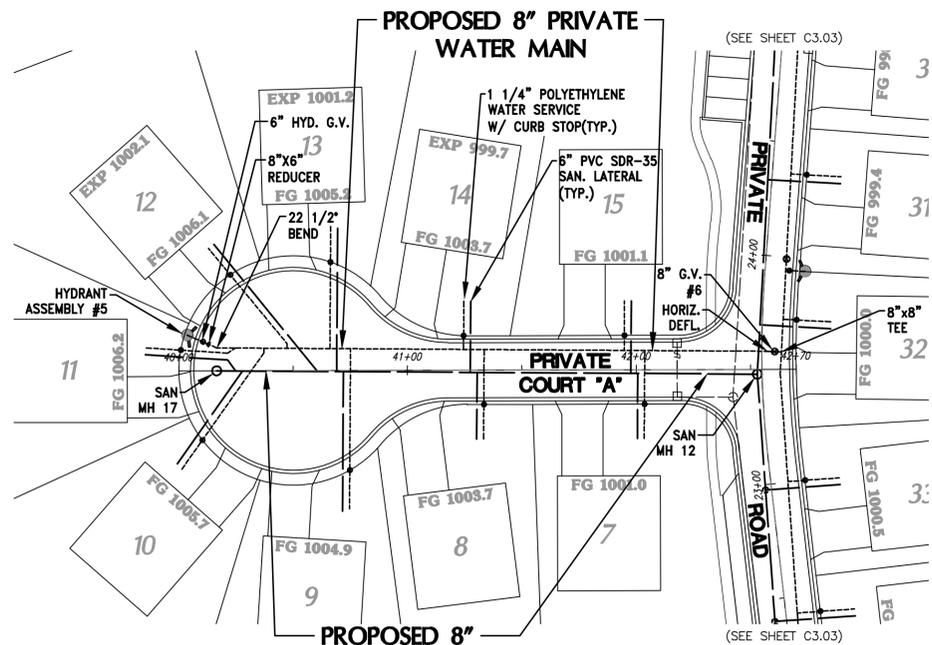
DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

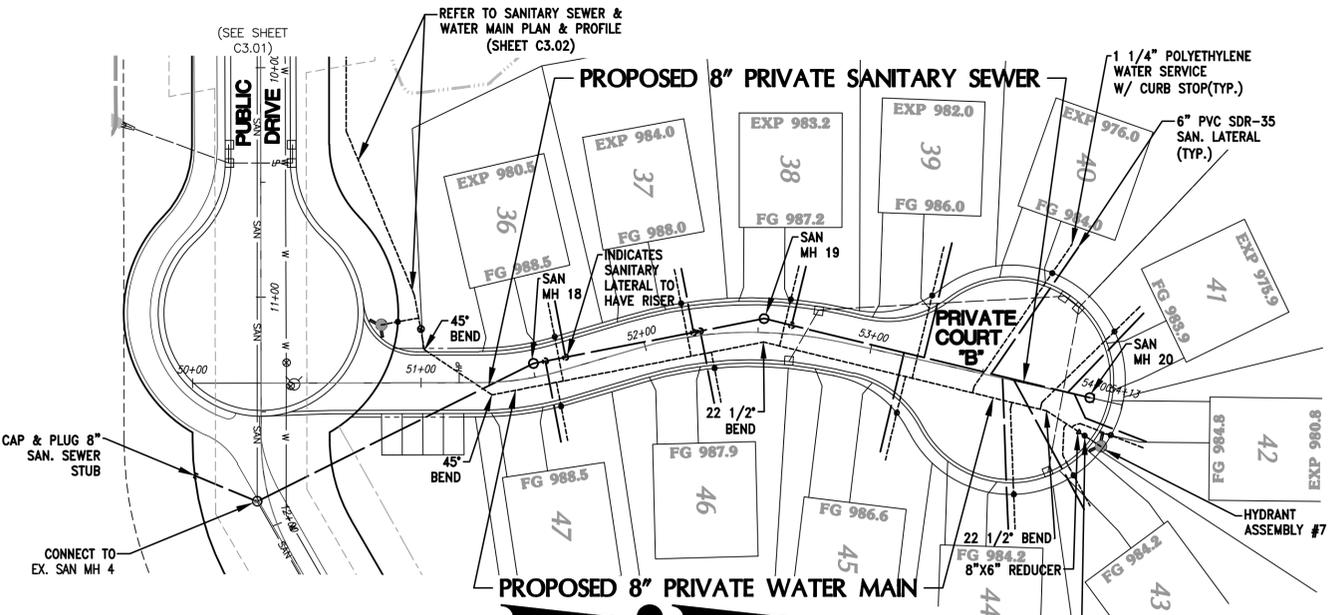
DESCRIPTION:
SANITARY SEWER
& WATER MAIN
PLAN & PROFILE

SHEET

C3.03



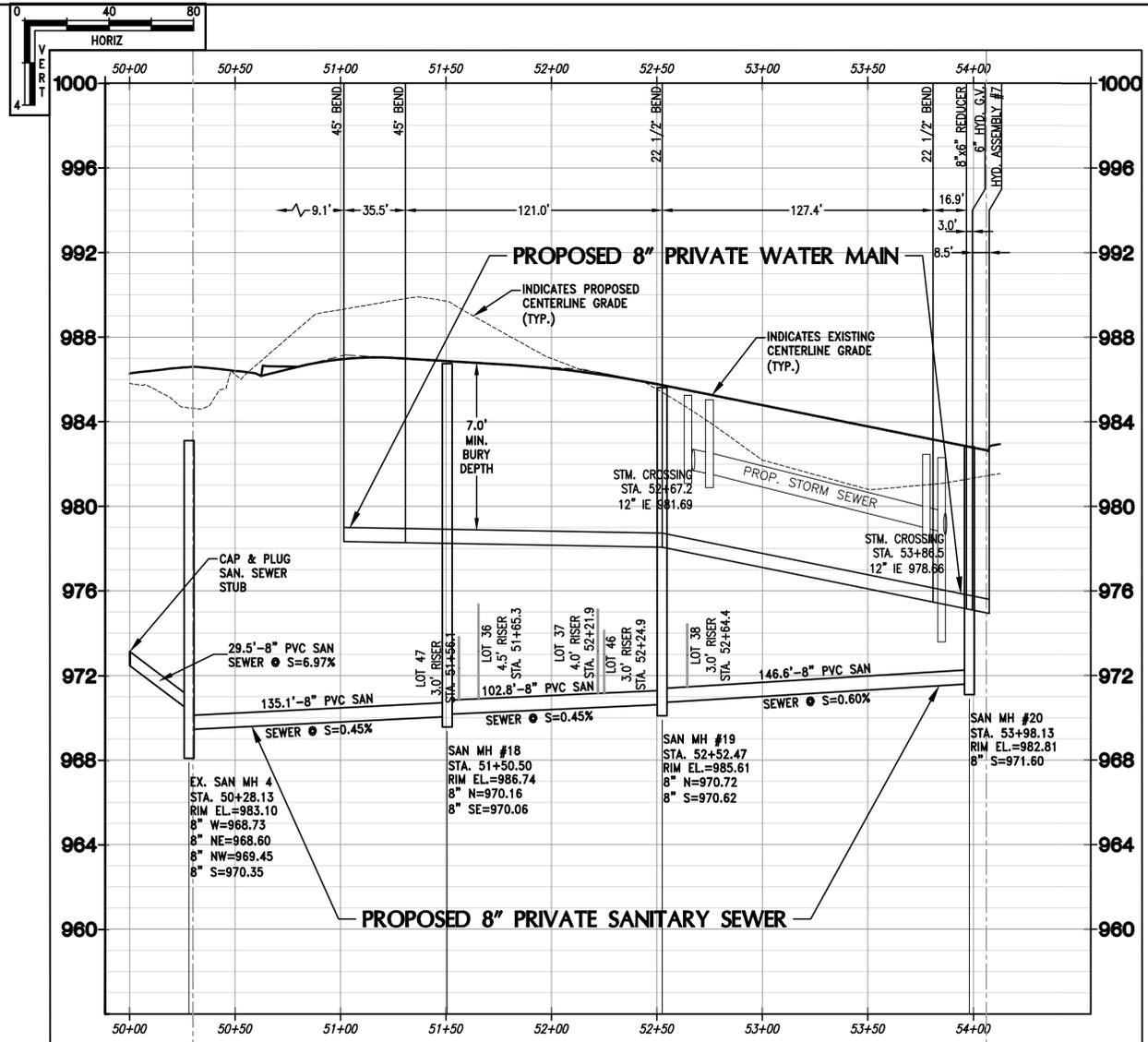
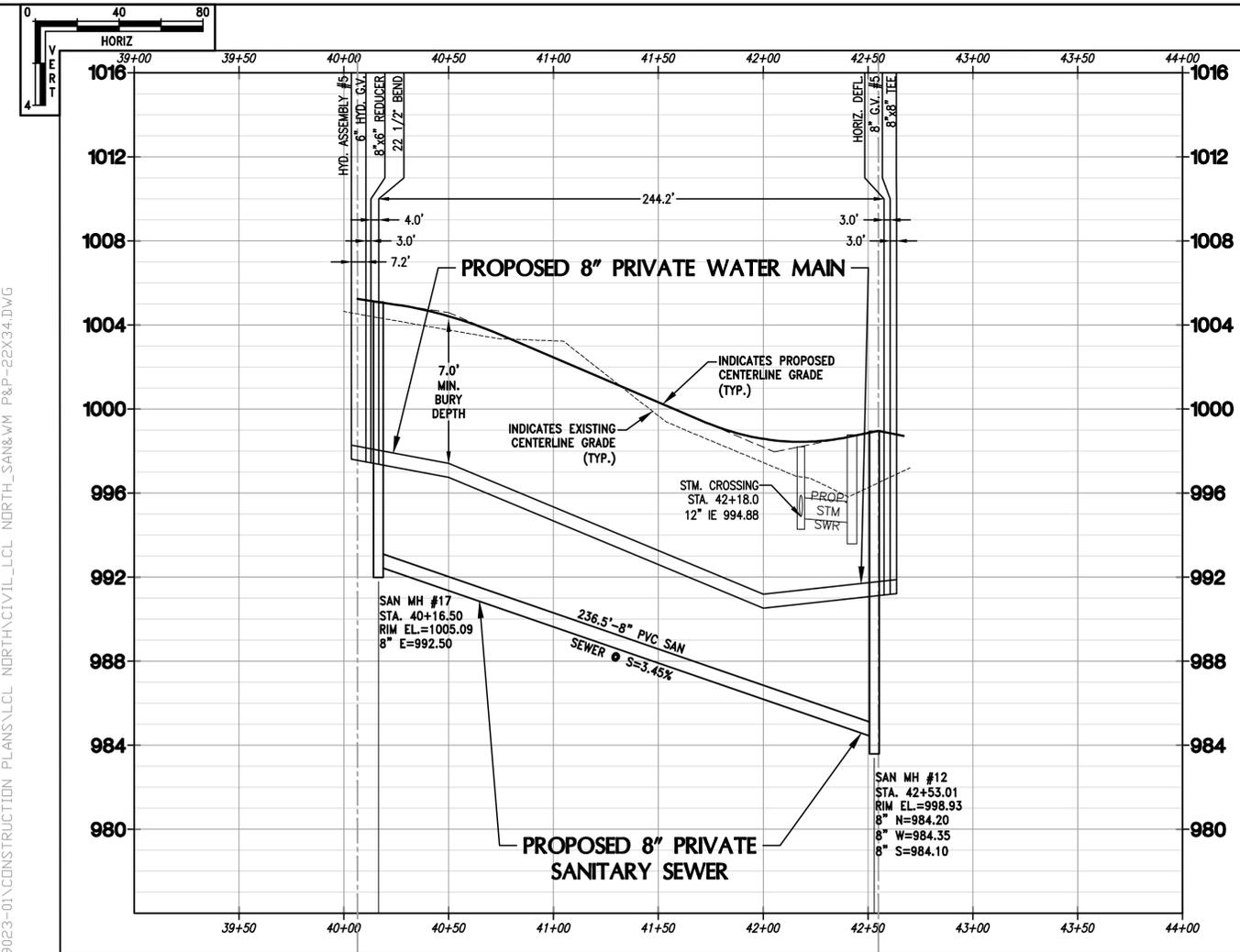
SCALE: 1" = 40' (22"x34")
SCALE: 1" = 80' (11"x17")



SCALE: 1" = 40' (22"x34")
SCALE: 1" = 80' (11"x17")

CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



H:\C900\953\19023-01\CONSTRUCTION PLANS\CLC\NORTH_SAN&WM_P&P-22X34.DWG



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

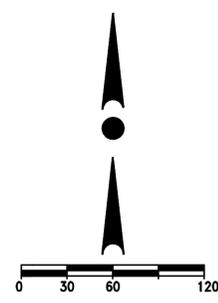
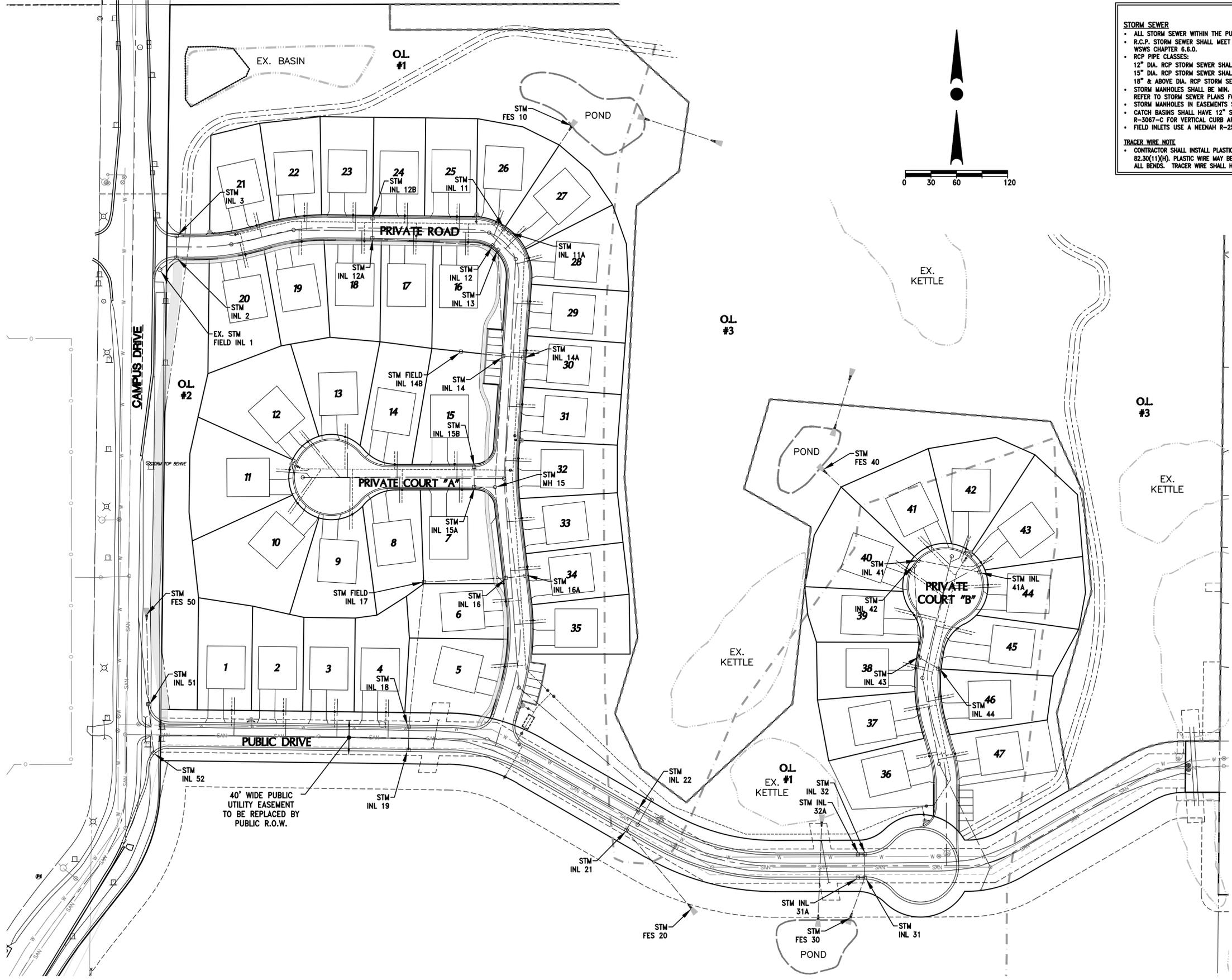
JOB NUMBER:
19023-953

DESCRIPTION:
SANITARY SEWER
& WATER MAIN
PLAN & PROFILE

SHEET

C3.04

H:\C900\953\19023-01\CONSTRUCTION PLANS\LCL_NORTH_RD & STM-22X34.DWG



STORM SEWER NOTES

STORM SEWER

- ALL STORM SEWER WITHIN THE PUBLIC ROADWAY SHALL BE RCP (REINFORCED CONCRETE PIPE) WITH GASKETED JOINTS.
- R.C.P. STORM SEWER SHALL MEET SECTION 8.6.0 (SSSWCW) AND BE RUBBER GASKETED MEETING THE REQUIREMENTS SET FORTH IN WISCONSIN CHAPTER 8.6.0.
- RCP PIPE CLASSES:
 - 12" DIA. RCP STORM SEWER SHALL BE CL-V
 - 15" DIA. RCP STORM SEWER SHALL BE CL-IV
 - 18" & ABOVE DIA. RCP STORM SEWER SHALL BE CL-III
- STORM MANHOLES SHALL BE MIN. 48" DIAMETER PRECAST CONCRETE WITH NEENAH R-1660 FRAMES & COVERS WITH 6 VENT HOLES. REFER TO STORM SEWER PLANS FOR MANHOLE SIZING INFORMATION.
- STORM MANHOLES IN EASEMENTS SHALL USE NEENAH R-1660 FRAMES WITH TYPE C GRATES.
- CATCH BASINS SHALL HAVE 12" SIMPS AND SHALL CONFORM TO FILE NO. 26 OF THE STANDARD SPECIFICATIONS WITH A NEENAH R-3067-C FOR VERTICAL CURB APPLICATIONS.
- FIELD INLETS USE A NEENAH R-2560-D8 TYPE BEEHIVE CASTING.

TRACER WIRE NOTE

- CONTRACTOR SHALL INSTALL PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE) PER COMM 82.30(1)(H). PLASTIC WIRE MAY BE TAPED TO PLASTIC PIPE. IF ATTACHED, THE TRACER SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET.

NOTE:
ALL MATERIALS SHALL BE APPROVED BY THE VILLAGE OF HARTLAND PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
STORM SEWER
SYSTEM PLAN

SHEET

C4.00



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

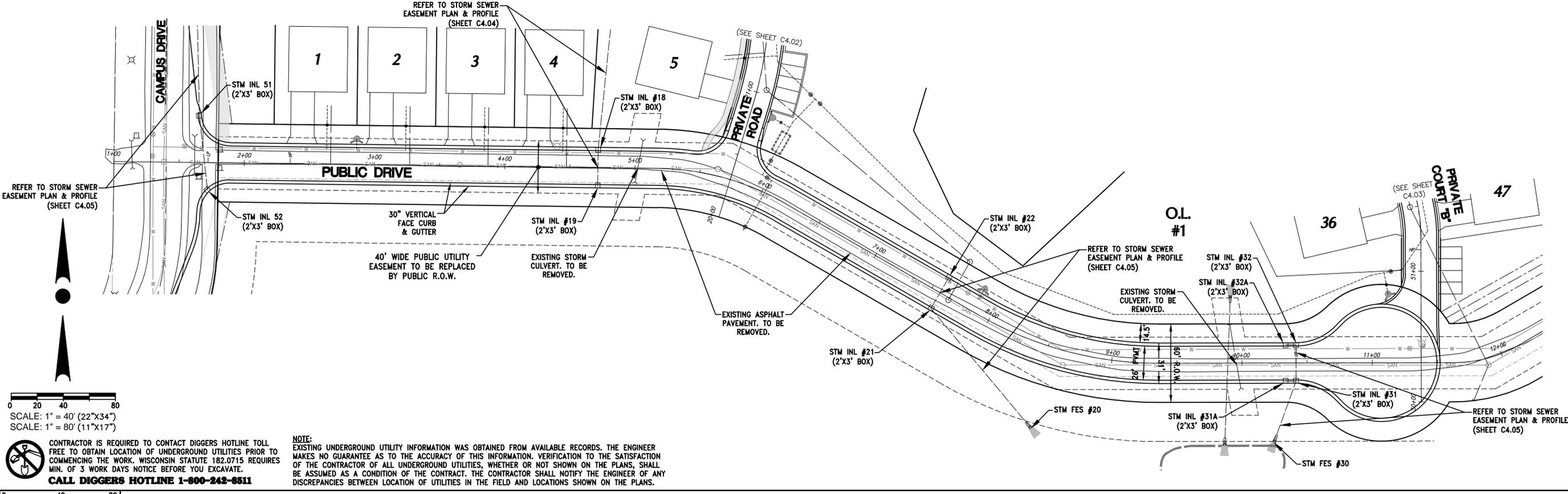
DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
ROADWAY &
STORM SEWER
PLAN & PROFILE

SHEET

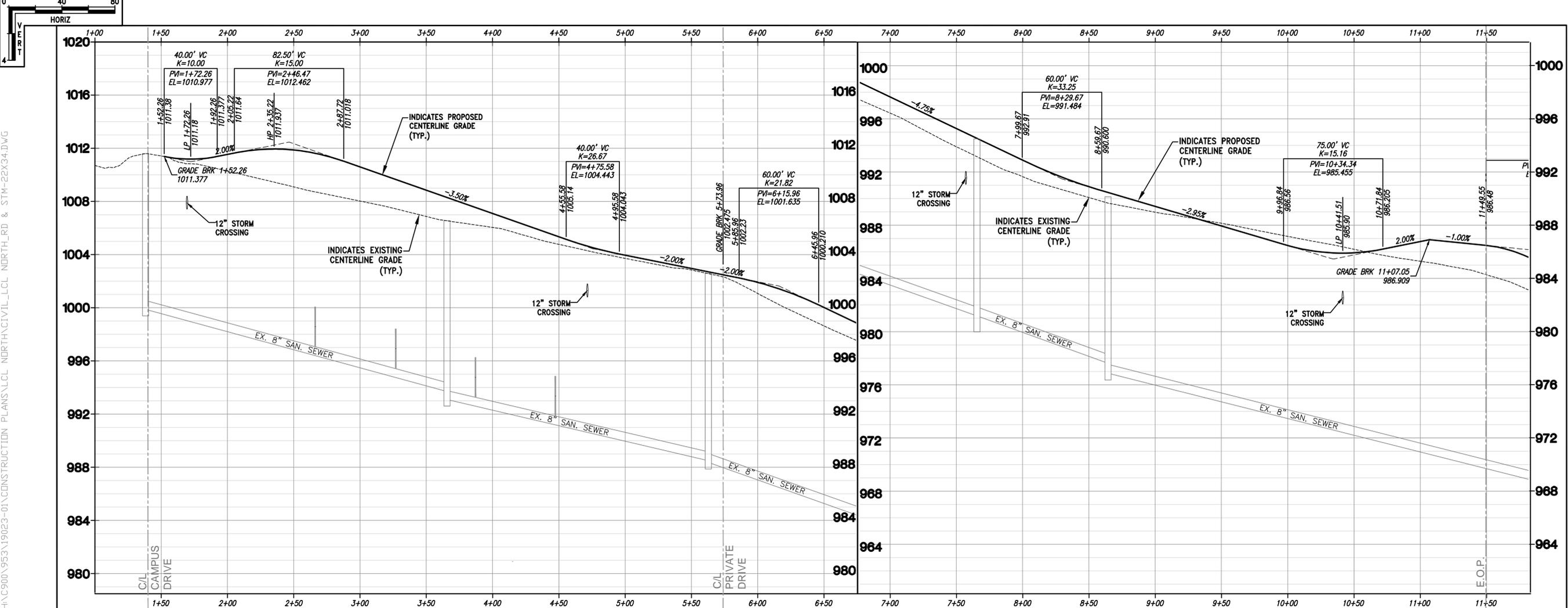
C4.01



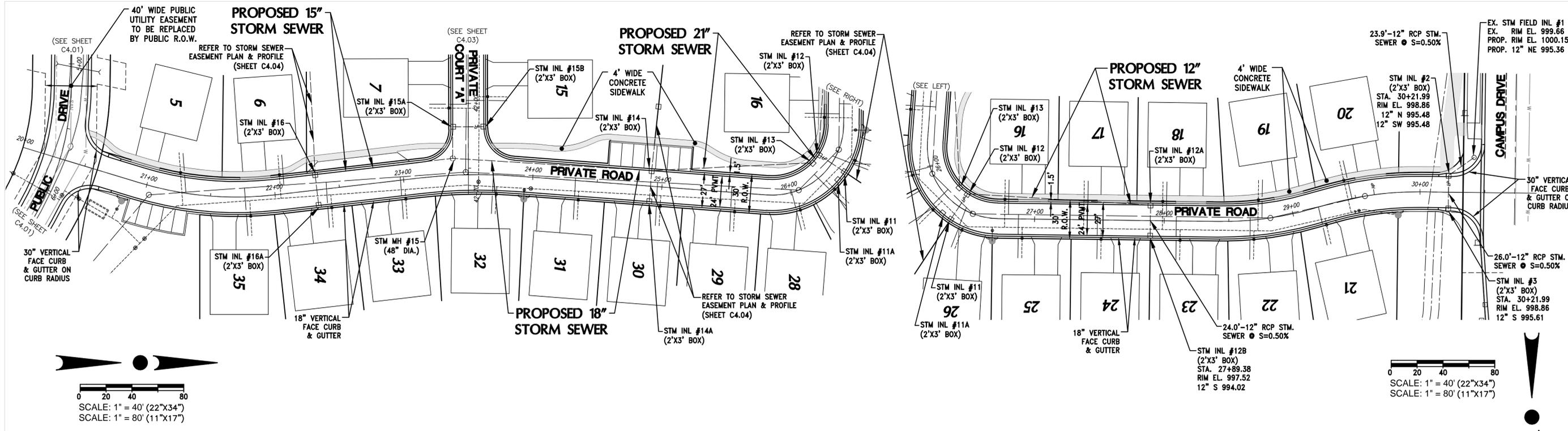
0 20 40 80
SCALE: 1" = 40' (22"x34")
SCALE: 1" = 80' (11"x17")

CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

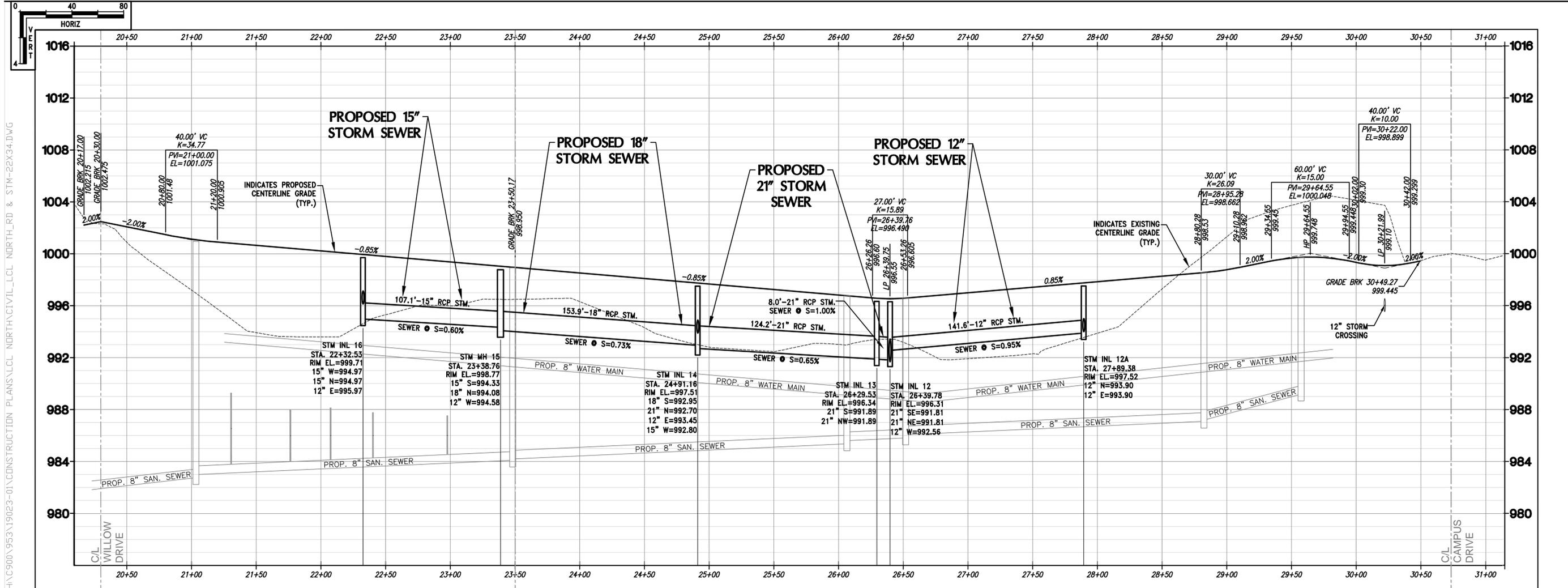


H:\C9000\953\19023-01\CONSTRUCTION PLANS\CL NORTH\CVIL\LCL NORTH_RD & STM-22X34.DWG



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



WISCONSIN
 JOSHUA D. PUDELKO
 E-39420
 WAUKESHA, WI
PROFESSIONAL ENGINEER

TRIO
 DESIGN • LAND SURVEYING
 CIVIL ENGINEERING

4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

DESCRIPTION:
 ROADWAY &
 STORM SEWER
 PLAN & PROFILE

SHEET
C4.02

H:\C:\953\19023-01\CONSTRUCTION PLANS\CL_NORTH\CVIL_LCL_NORTH_RD & STM-22X34.DWG



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

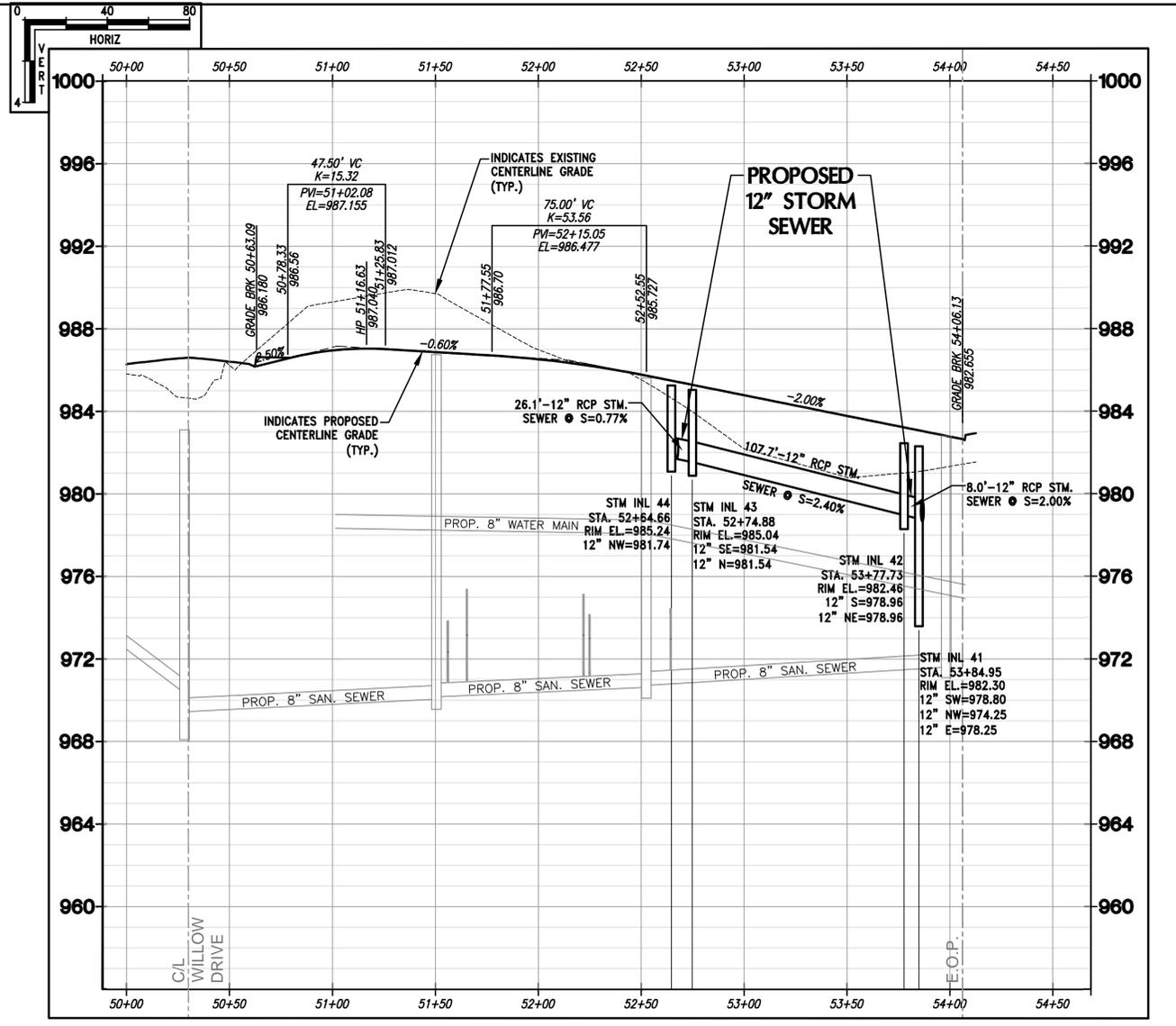
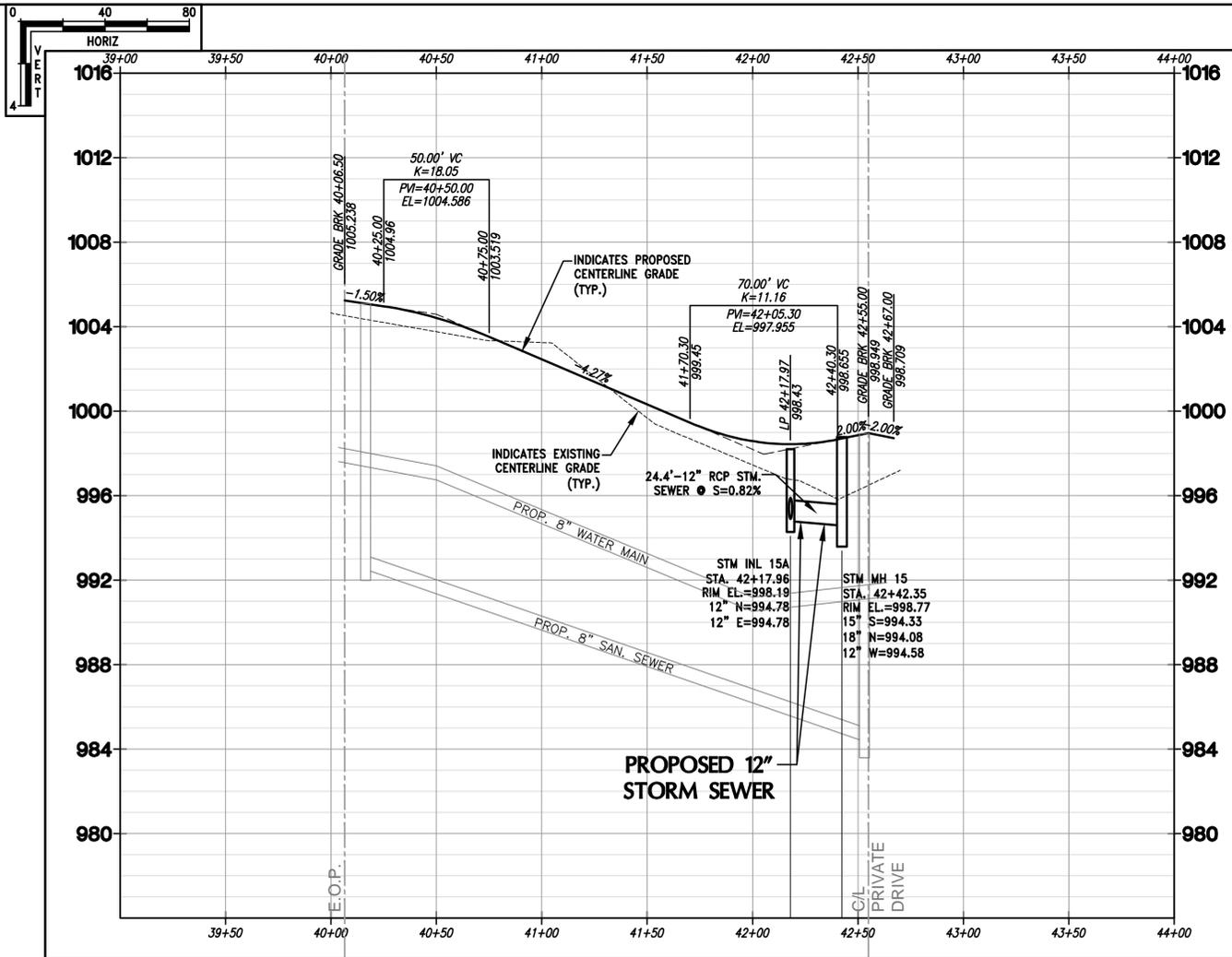
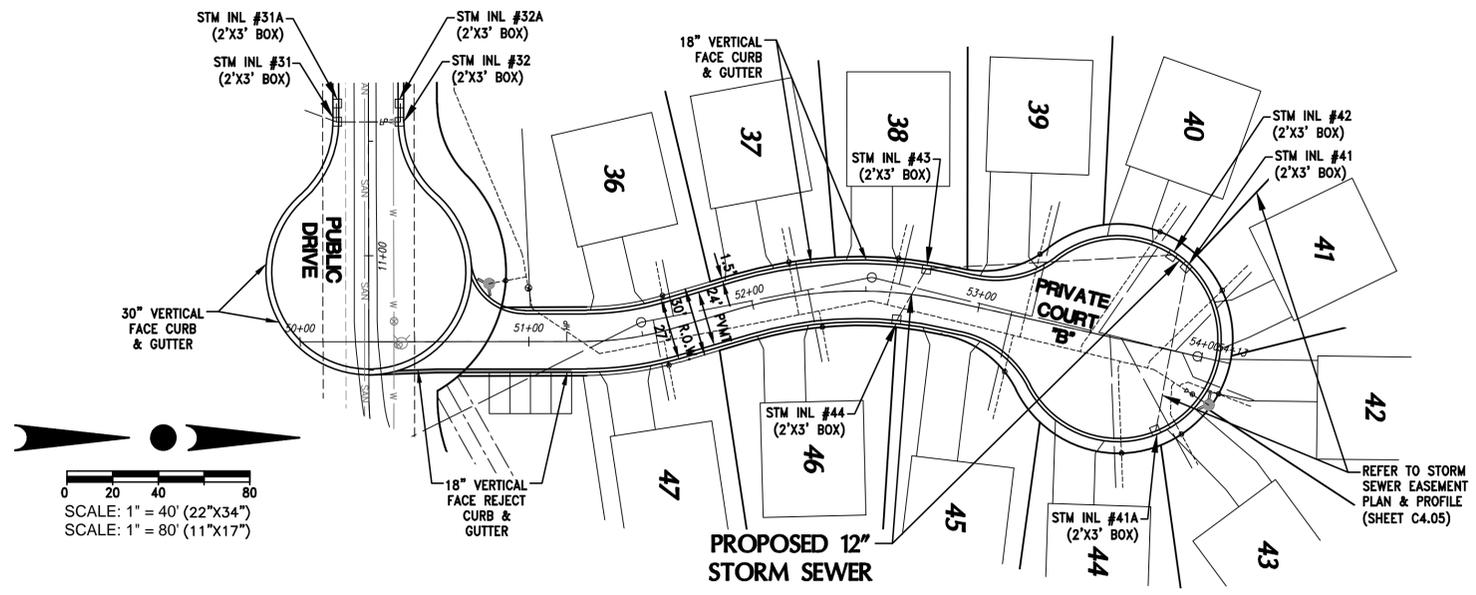
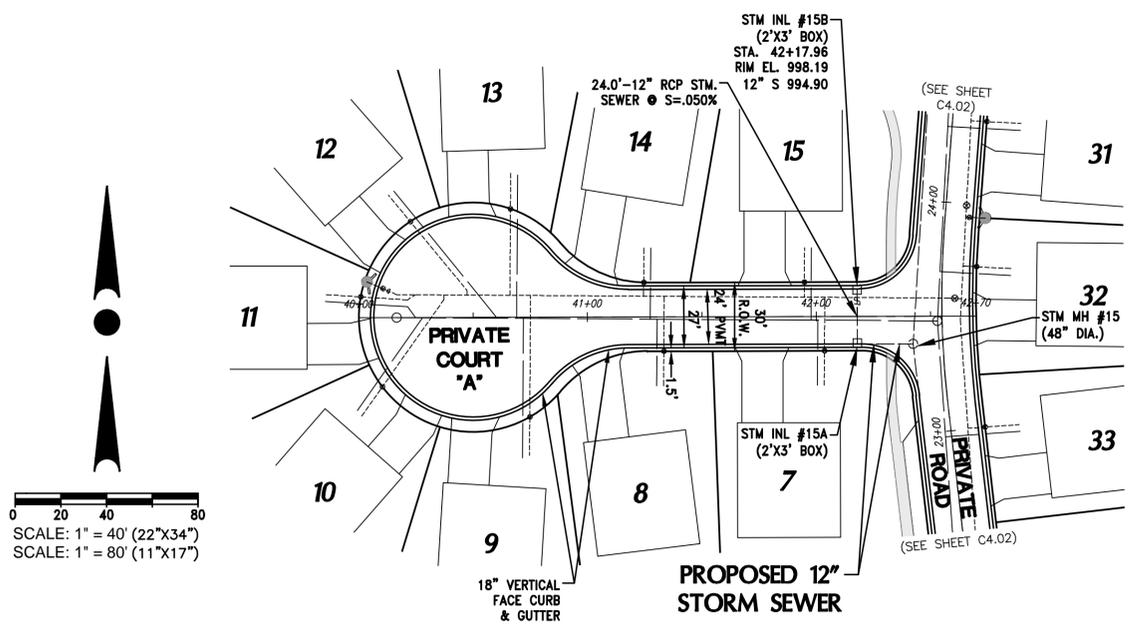
DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
ROADWAY &
STORM SEWER
PLAN & PROFILE

SHEET

C4.03



H:\C900\953\19023-01\CONSTRUCTION PLANS\CL_NORTH_VIL_LCL_NORTH_RD & STM-22X34.DWG

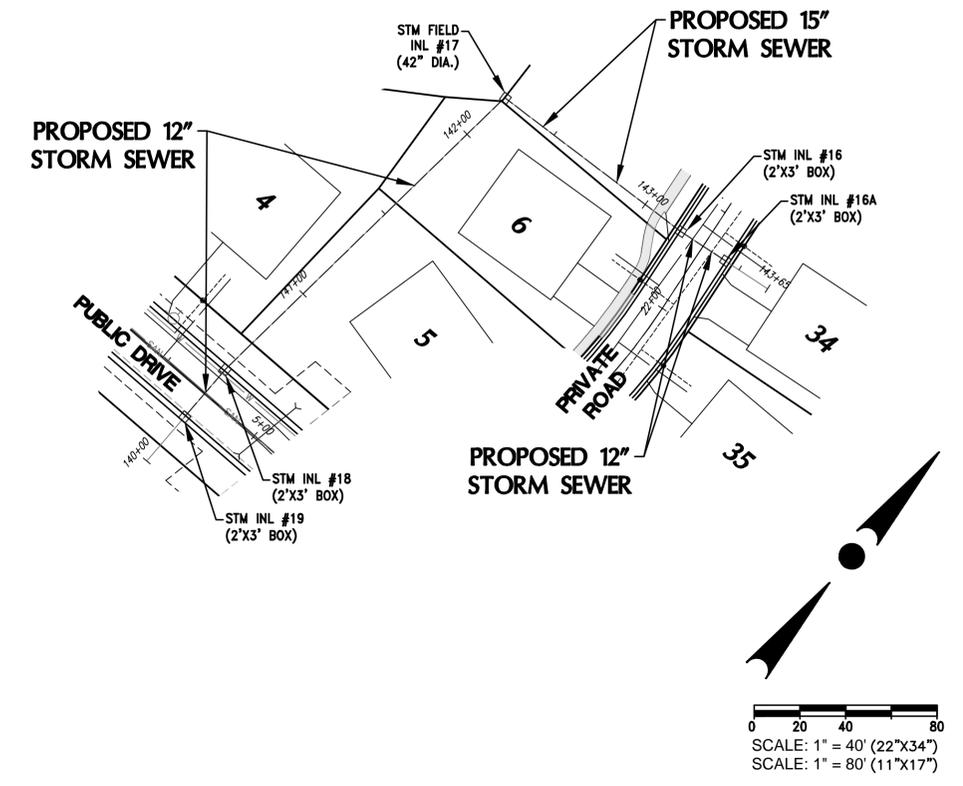
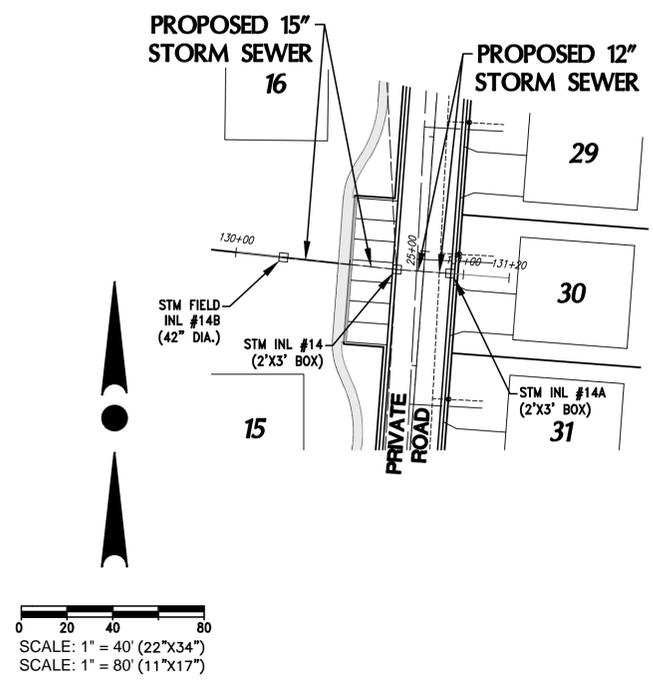
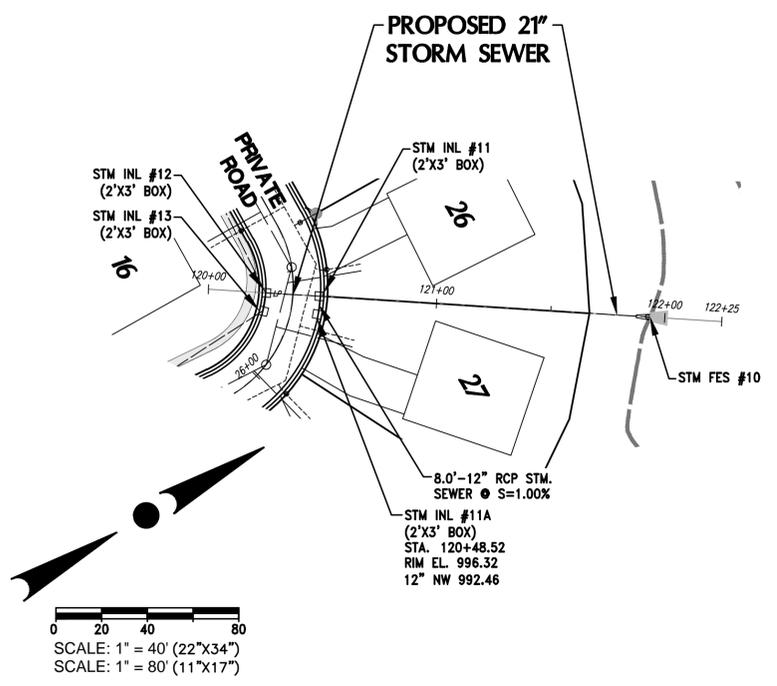
CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE. CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



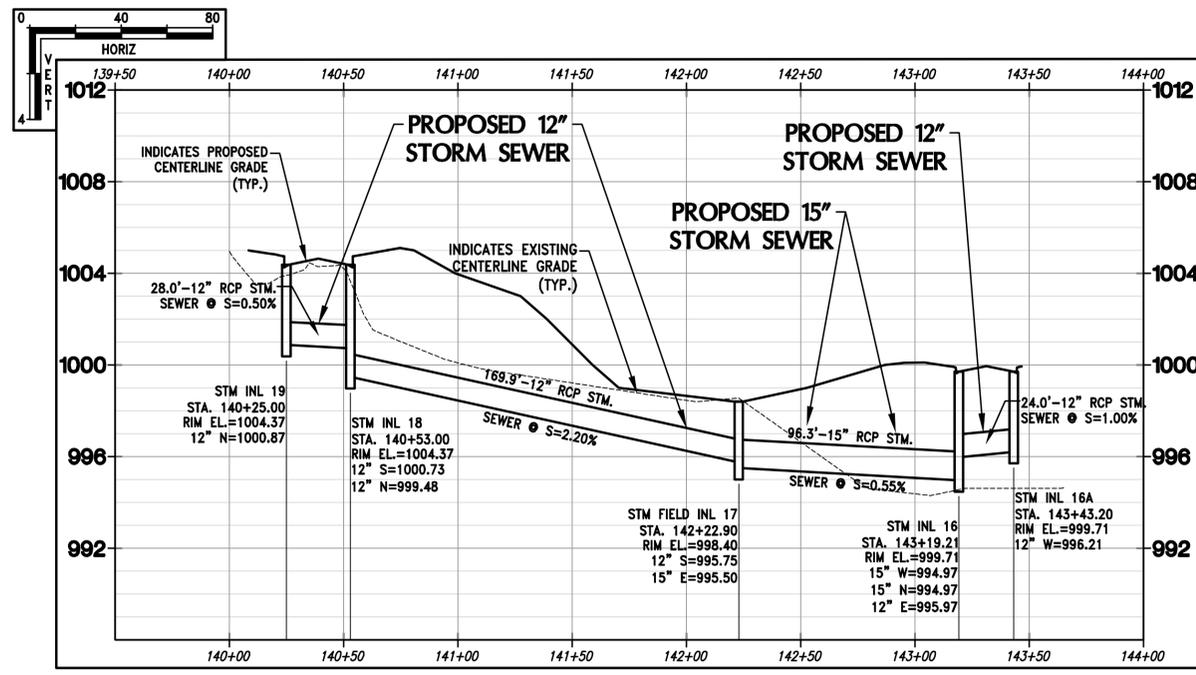
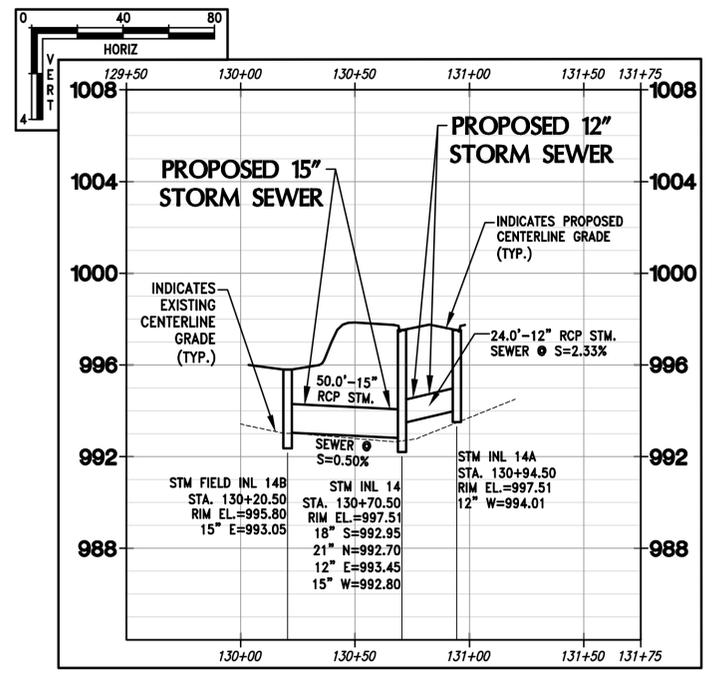
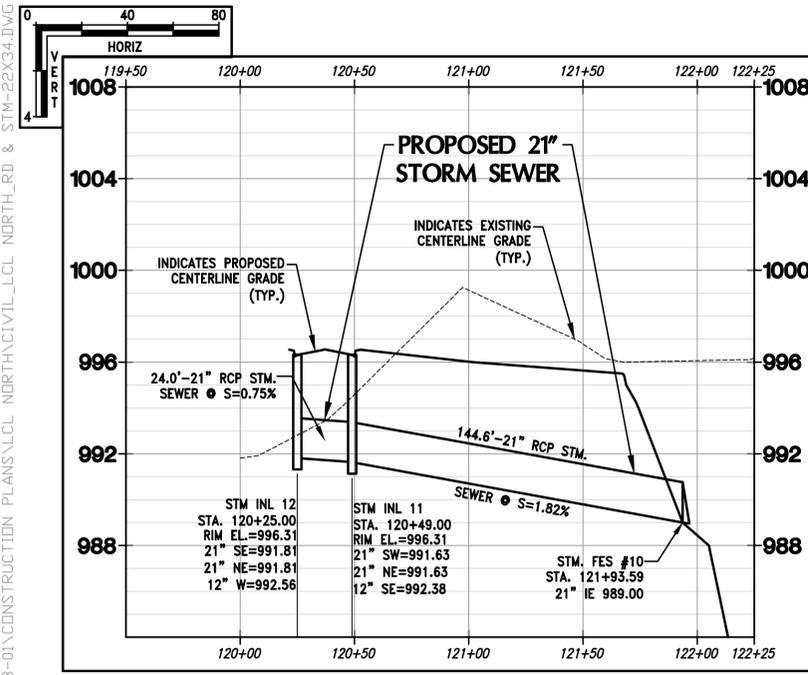
4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

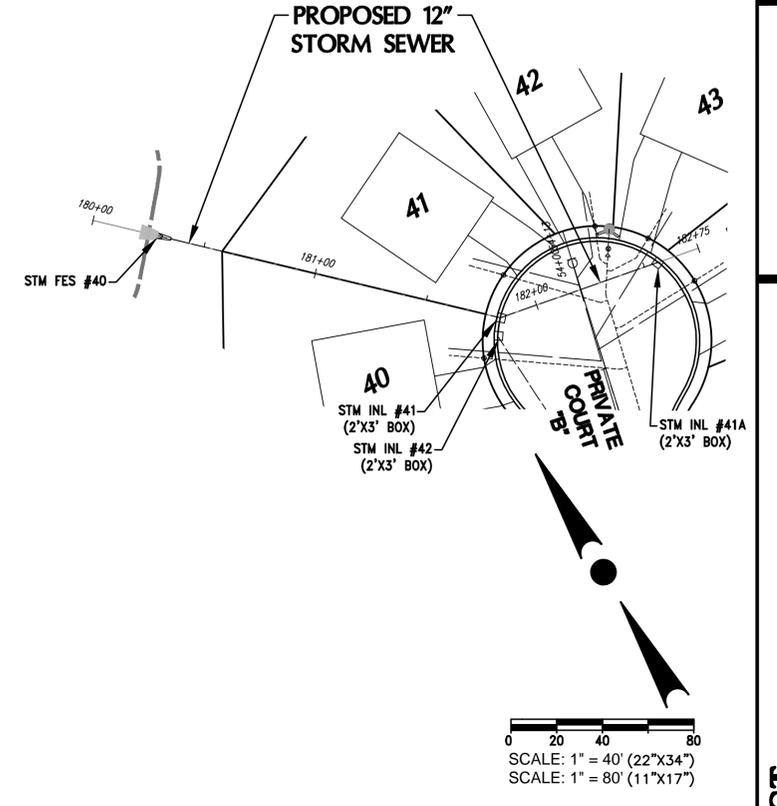
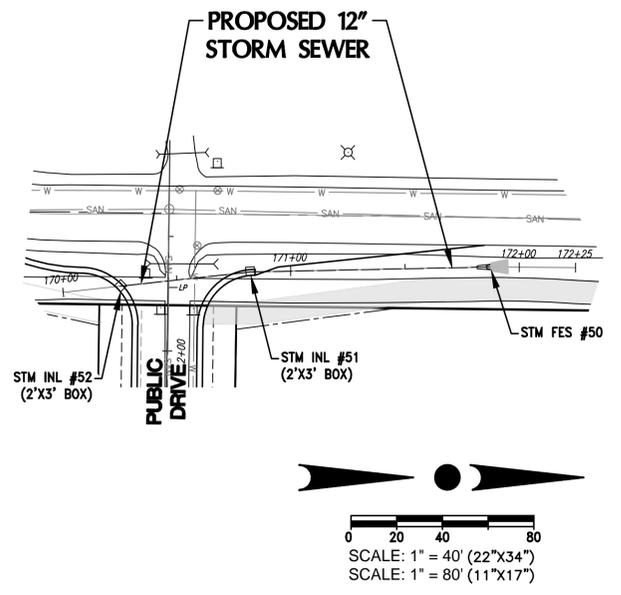
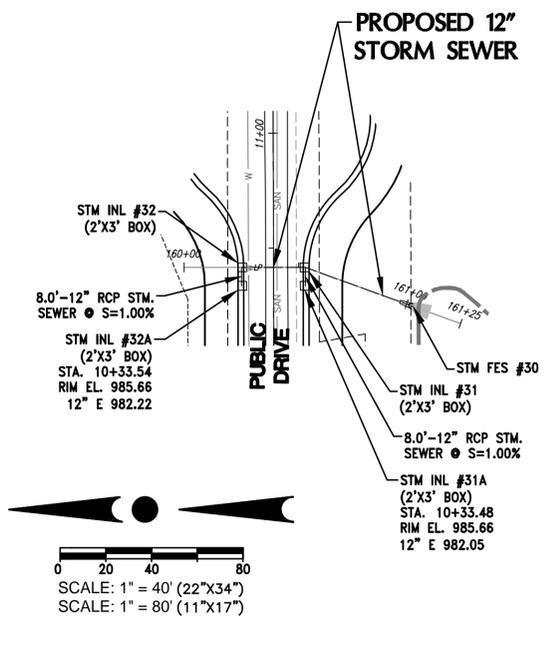
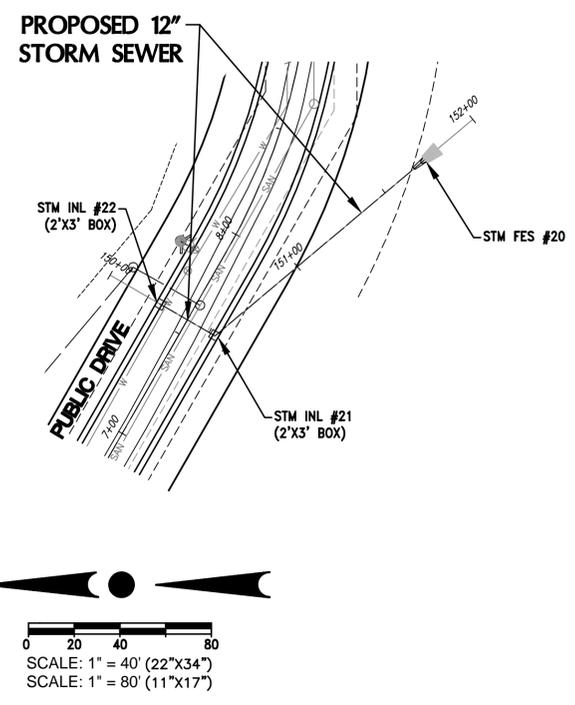
DESCRIPTION:
STORM SEWER
PLAN & PROFILE

SHEET
C4.04

H:\C9000\953\19023-01\CONSTRUCTION PLANS\CLC\NORTH\CVIL_LCL_NORTH_RD & STM-22X34.DWG

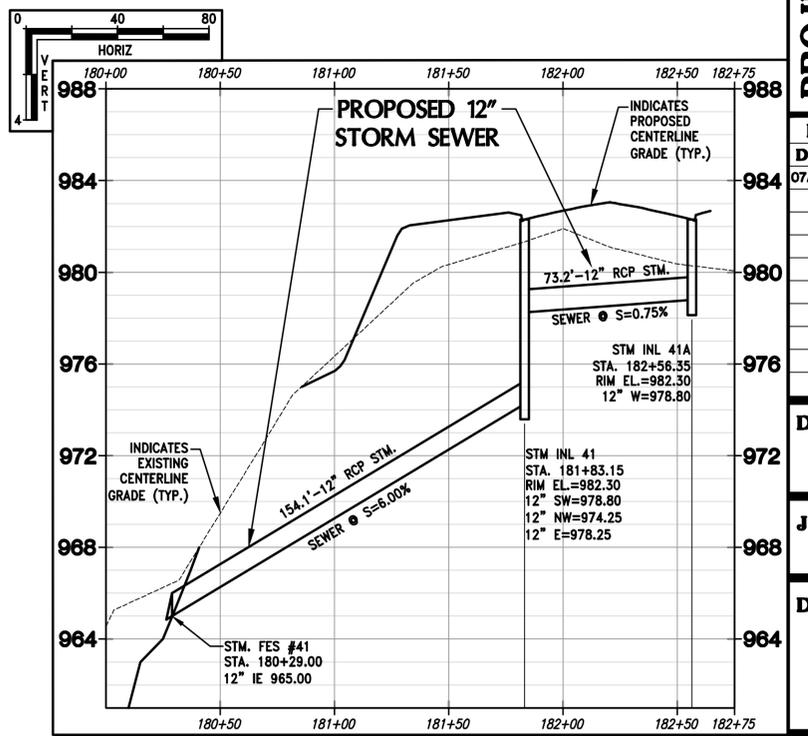
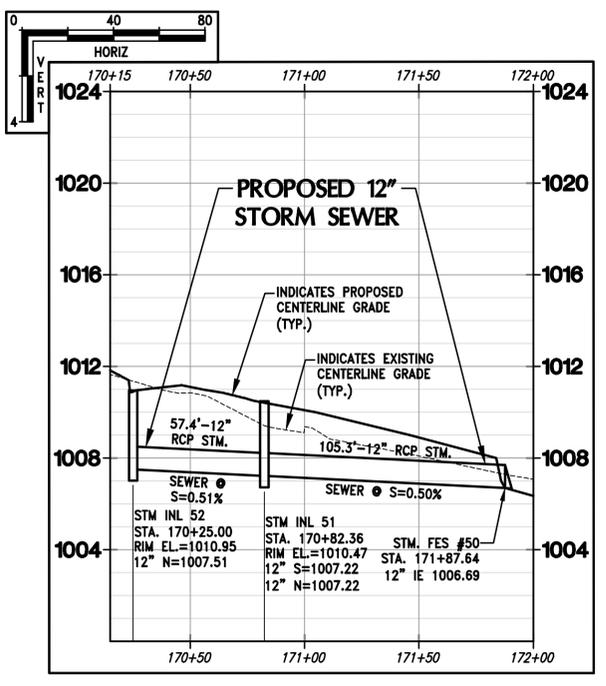
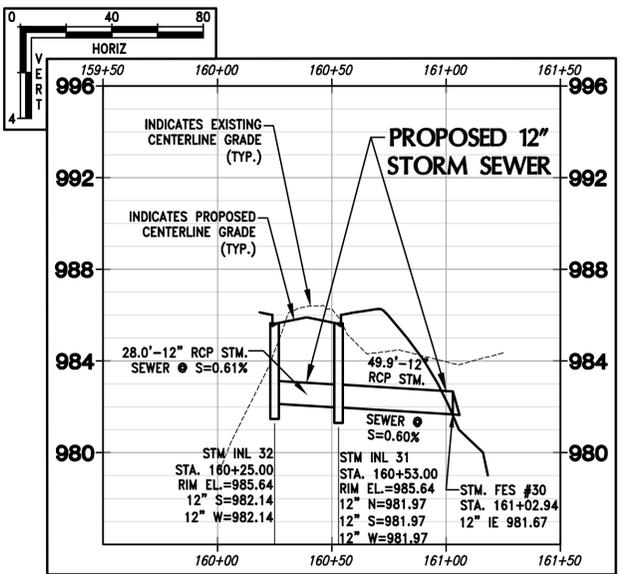
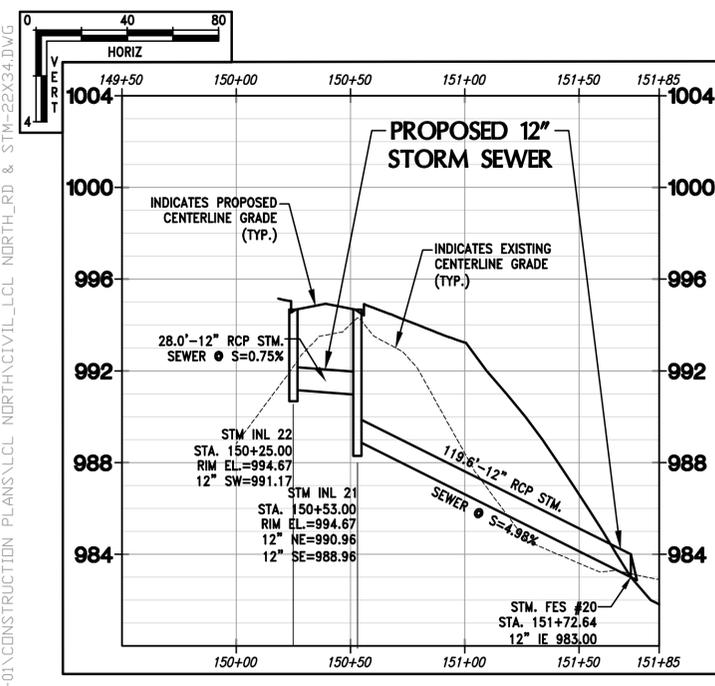


4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

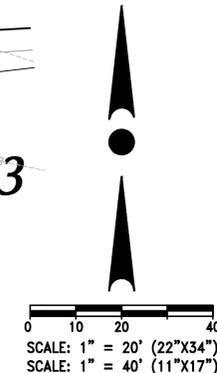
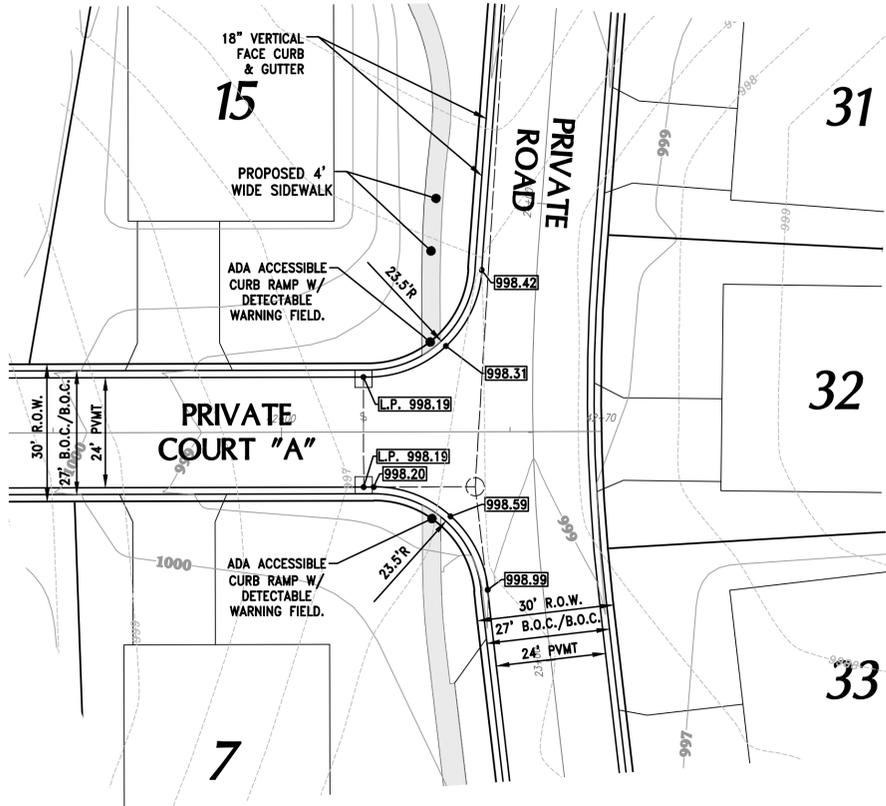
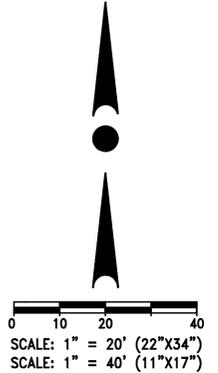
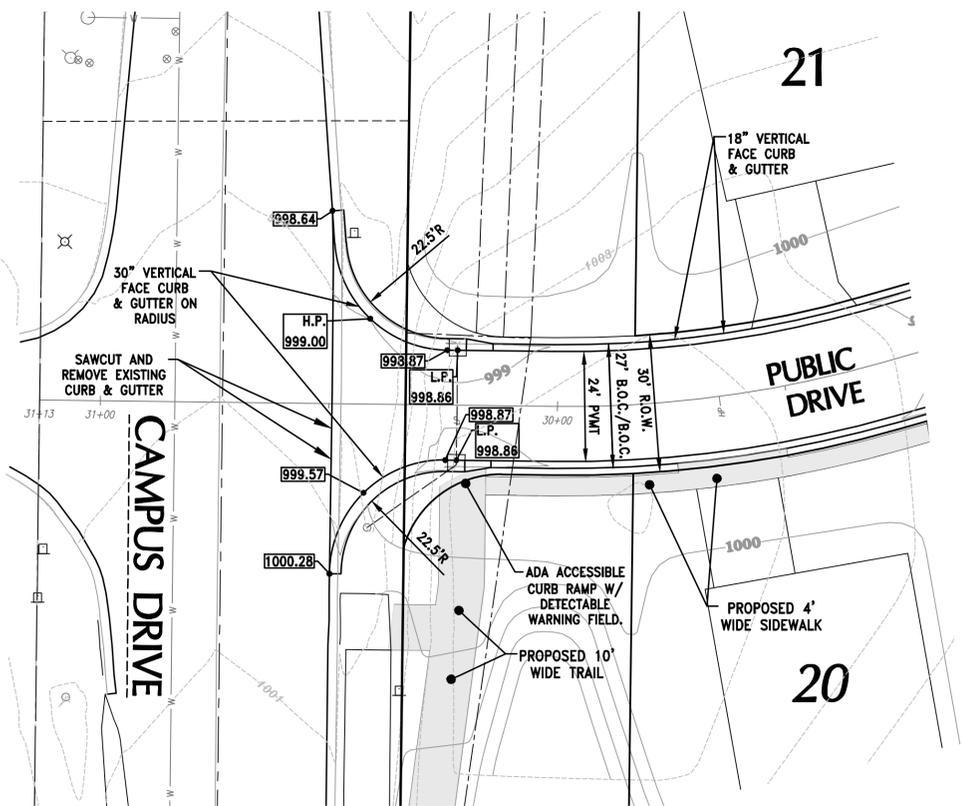
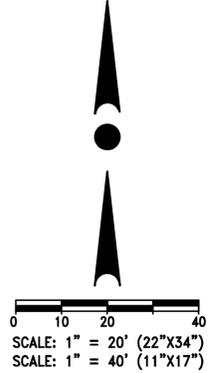
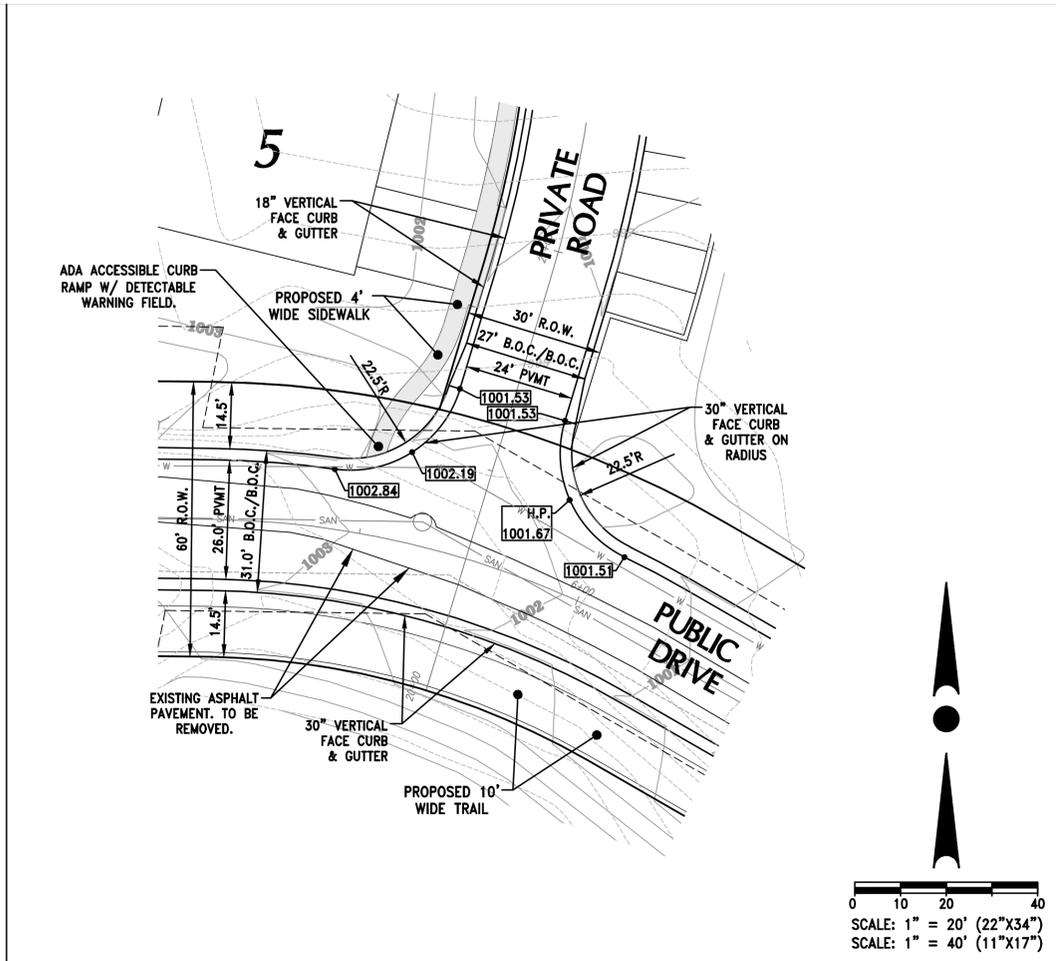
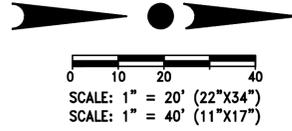
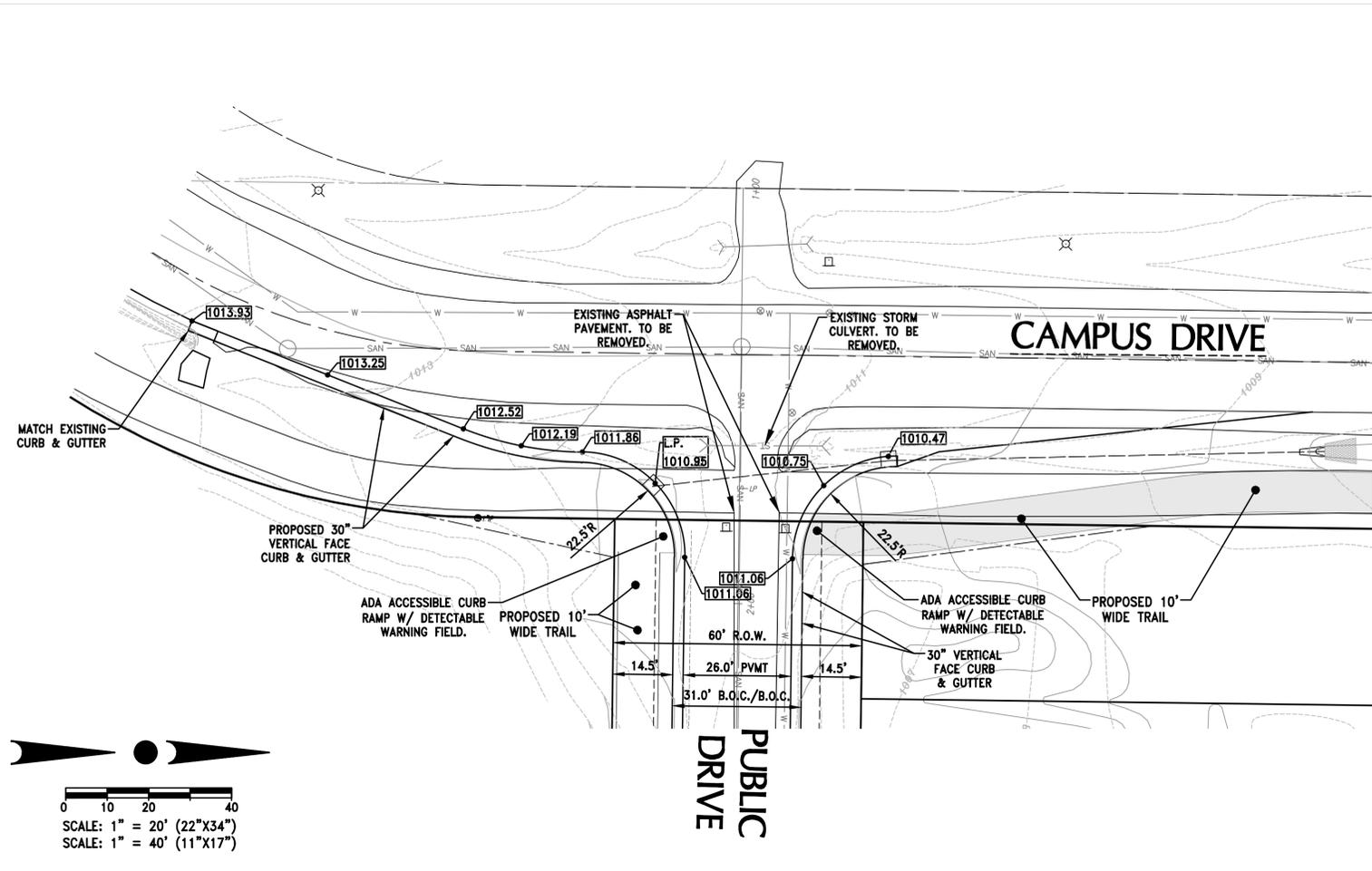
JOB NUMBER:
19023-953

DESCRIPTION:
STORM SEWER
PLAN & PROFILE

SHEET

C4.05

H:\C9000\953\19023-01\CONSTRUCTION PLANS\CLC_NORTH\CLC_NORTH_RD & STM-22X34.DWG



PROJECT:
LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

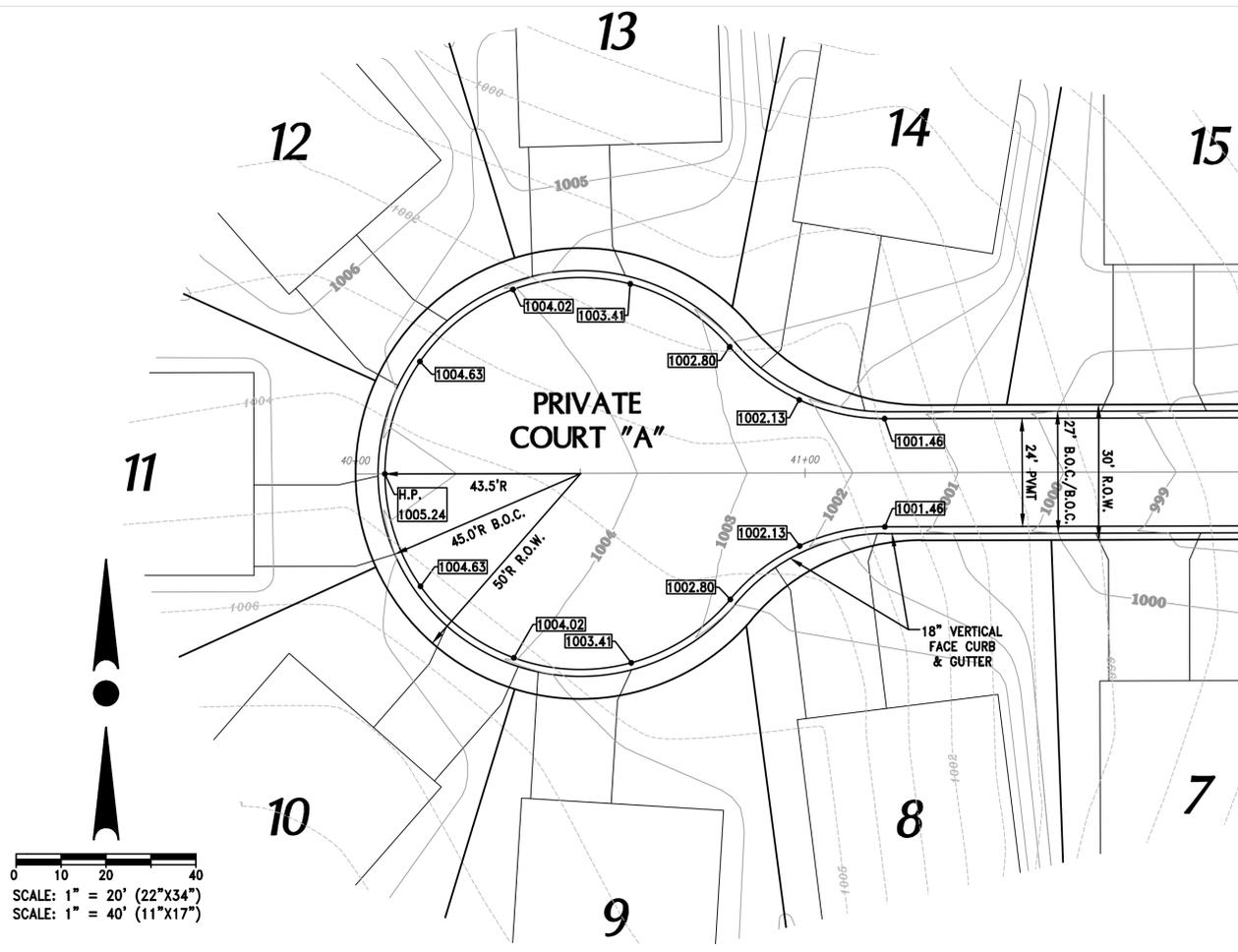
DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

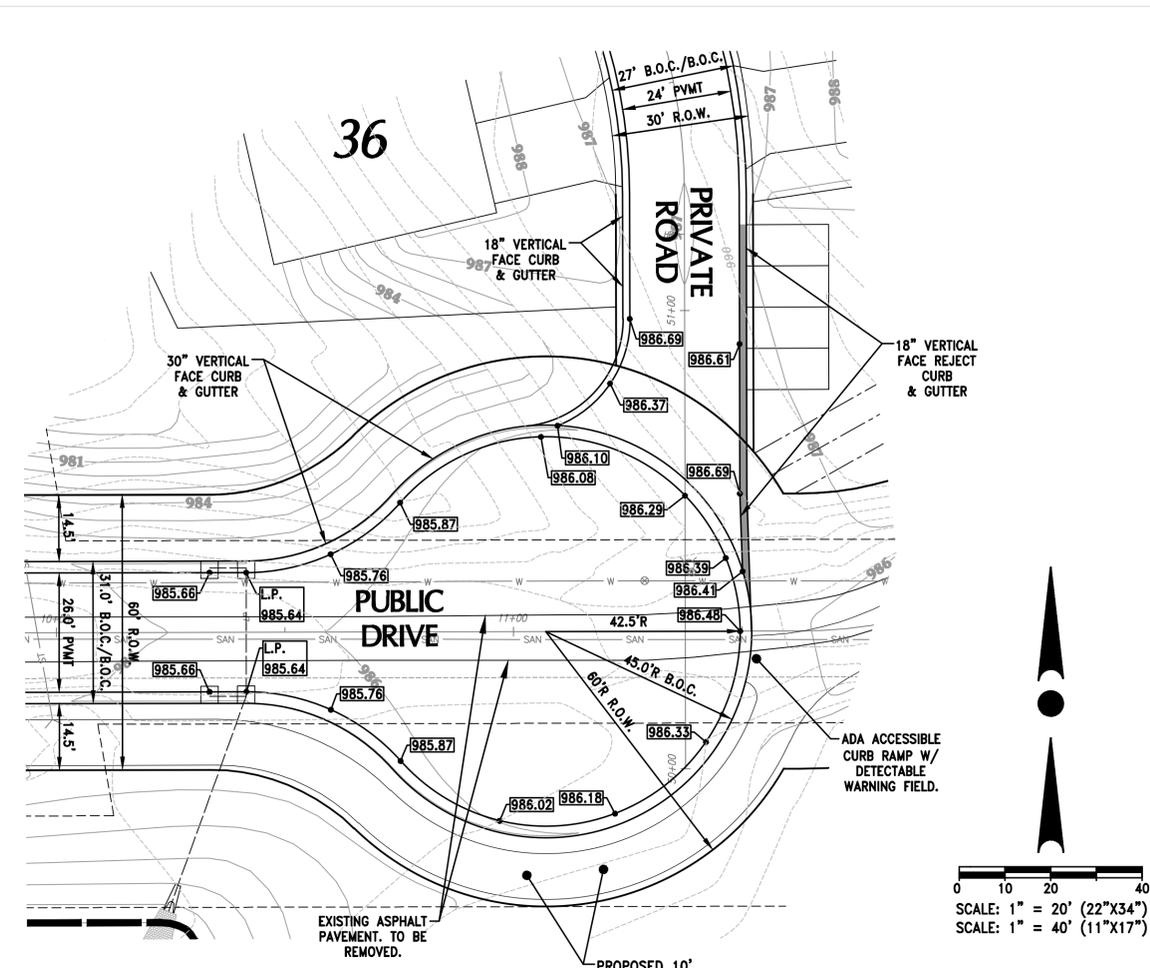
DESCRIPTION:
 CUL-DE-SAC &
 INTERSECTION
 DETAILS

SHEET
C5.00

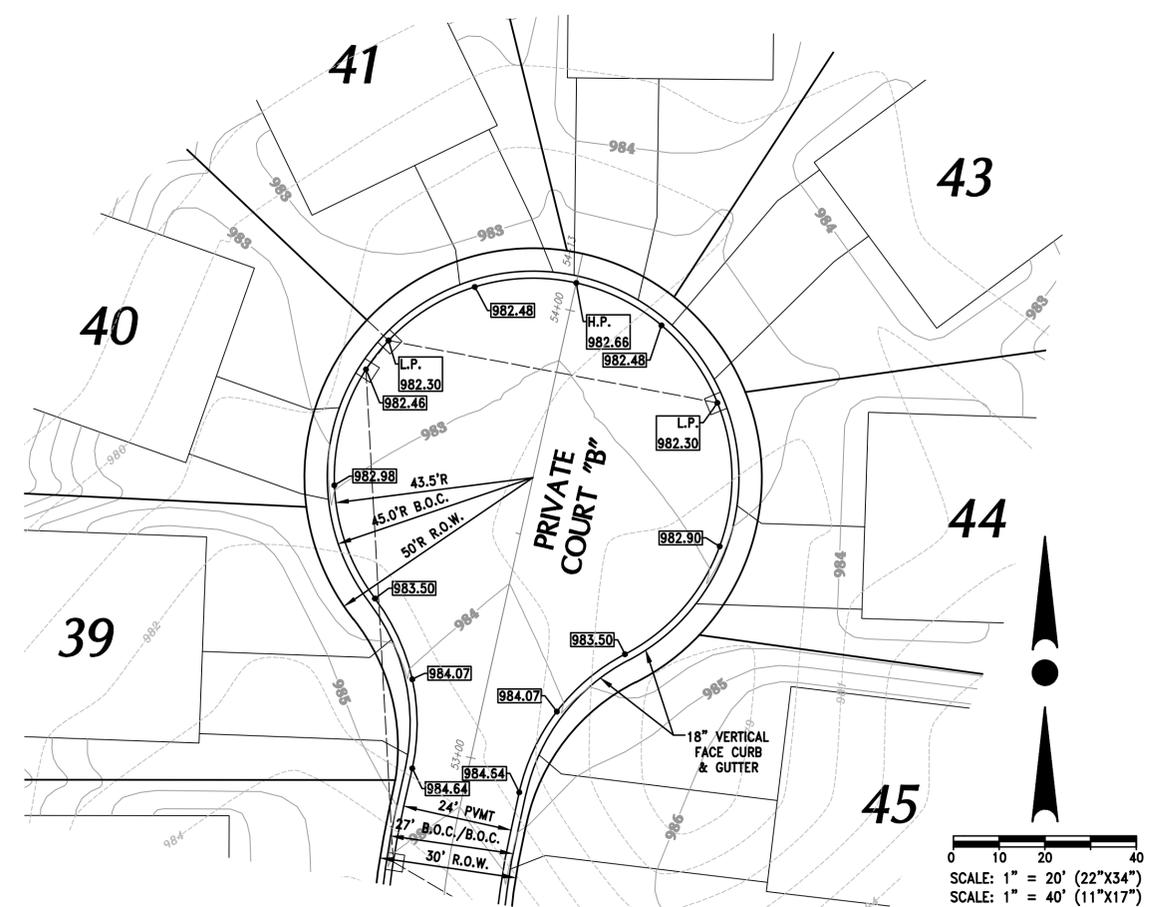
H:\C900\953\19023-01\CONSTRUCTION PLANS\CL\ NORTH\CVIL\LCL_NORTH_INTERSECTION.DWG



SCALE: 1" = 20' (22"x34")
SCALE: 1" = 40' (11"x17")



SCALE: 1" = 20' (22"x34")
SCALE: 1" = 40' (11"x17")



SCALE: 1" = 20' (22"x34")
SCALE: 1" = 40' (11"x17")



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

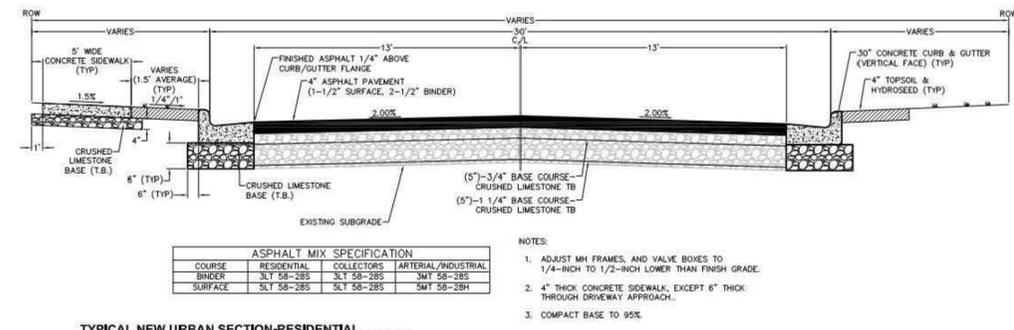
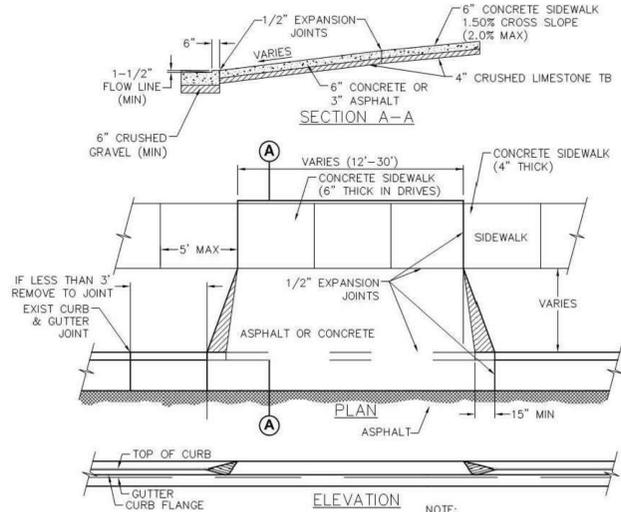
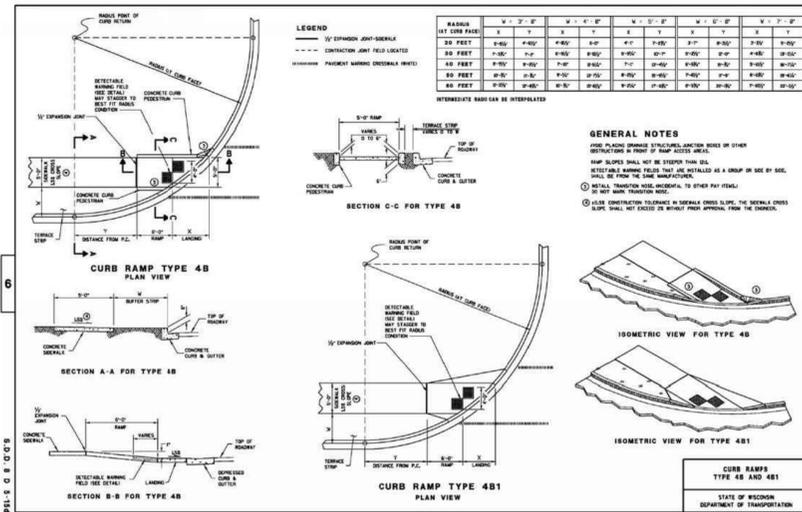
DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
CUL-DE-SAC &
INTERSECTION
DETAILS

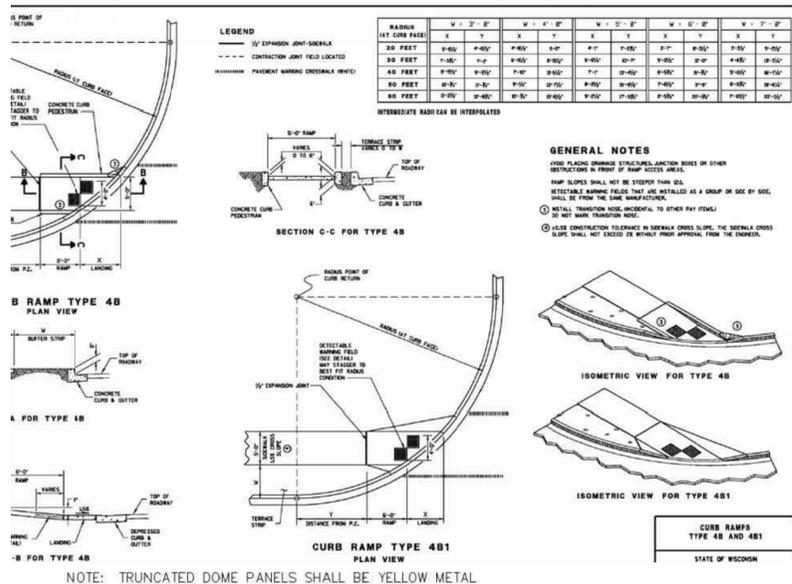
SHEET
C5.01

H:\C900\953\19023-01\CONSTRUCTION PLANS\CLL NORTH\COVER & DETAILS-22X34.DWG

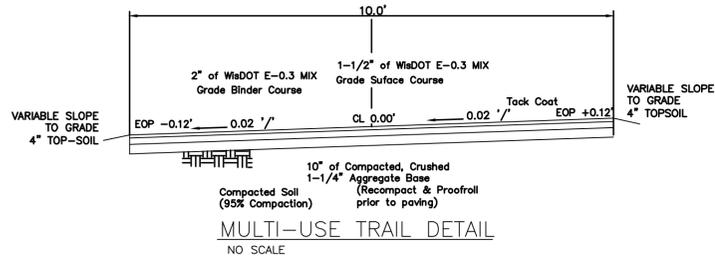


ASPHALT OR CONCRETE DRIVEWAY NO SCALE

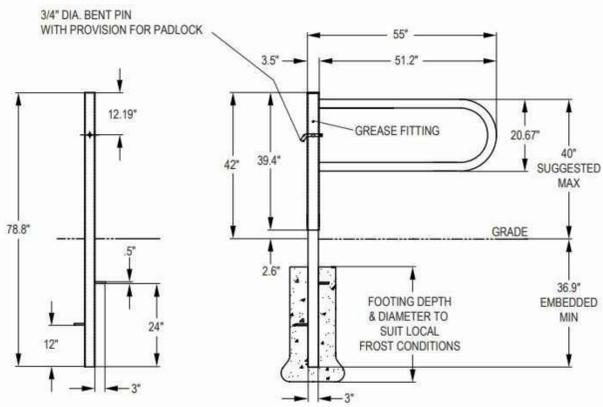
TYPICAL NEW URBAN SECTION-RESIDENTIAL NO SCALE



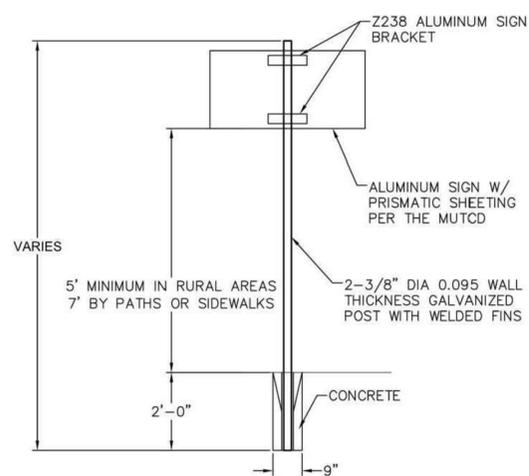
NOTE: TRUNCATED DOME PANELS SHALL BE YELLOW METAL



MULTI-USE TRAIL DETAIL NO SCALE

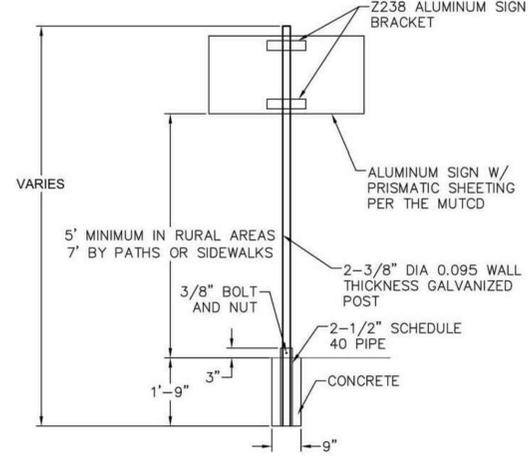


SWING GATE BOLLARD DETAIL NO SCALE



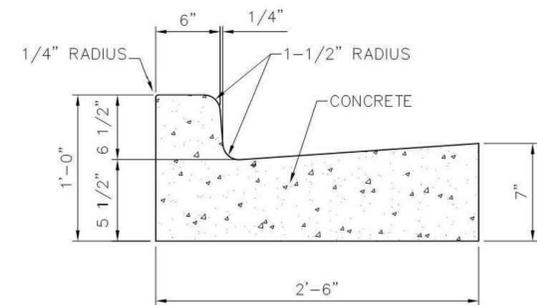
ALL SIGN INSTALLATIONS TO MEET MUTCD STANDARDS. SIGNS TO BE HELD TO THE BRACKETS WITH STAINLESS STEEL NYLOK LOCK NUTS. ALL PEDESTRIAN AND SCHOOL CROSSING SIGNS HAVE TO BE FYGHP. STREET NAME PLATES SHALL BE 9" BLADE WITH 6" UPPER/LOWER CASE LETTERING, WHITE ON GREEN LETTERING. (FOR PRIVATE ROADS LETTERING IS WHITE ON BLUE)

SIGN POST DETAIL IN UNPAVED AREAS NO SCALE

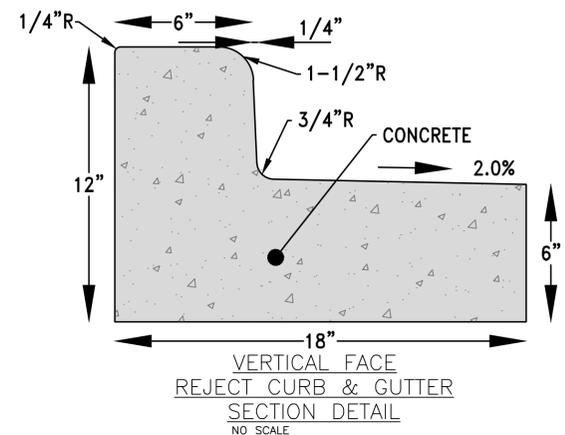


ALL SIGN INSTALLATIONS TO MEET MUTCD STANDARDS. SIGNS TO BE HELD TO THE BRACKETS WITH STAINLESS STEEL NYLOK LOCK NUTS. ALL PEDESTRIAN AND SCHOOL CROSSING SIGNS HAVE TO BE FYGHP. STREET NAME PLATES SHALL BE 9" BLADE WITH 6" UPPER/LOWER CASE LETTERING, WHITE ON GREEN LETTERING. (FOR PRIVATE ROADS LETTERING IS WHITE ON BLUE)

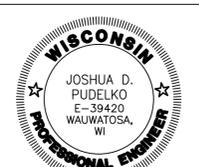
SIGN POST DETAIL IN PAVEMENT NO SCALE



30" VERTICAL FACE CURB & GUTTER NO SCALE



VERTICAL FACE REJECT CURB & GUTTER SECTION DETAIL NO SCALE



4100 N. CALHOUN ROAD
 BROOKFIELD, WI 53005
 PHONE: (262) 790-1480
 FAX: (262) 790-1481
 EMAIL: info@trioeng.com

PROJECT:
 LAKE COUNTRY LUTHERN
 LAKE COUNTRY LUTHERAN LAND
 VILLAGE OF HARTLAND, WISCONSIN
 BY: NEUMANN DEVELOPMENTS, INC.
 N27W24025 PAUL COURT, SUITE 100
 PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

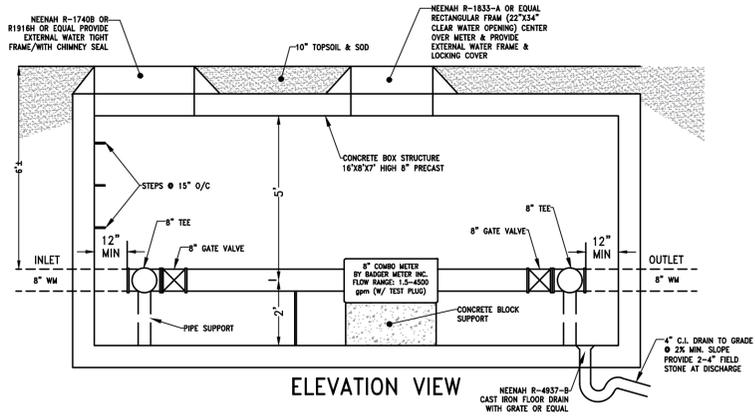
DATE:
 JULY 2, 2020

JOB NUMBER:
 19023-953

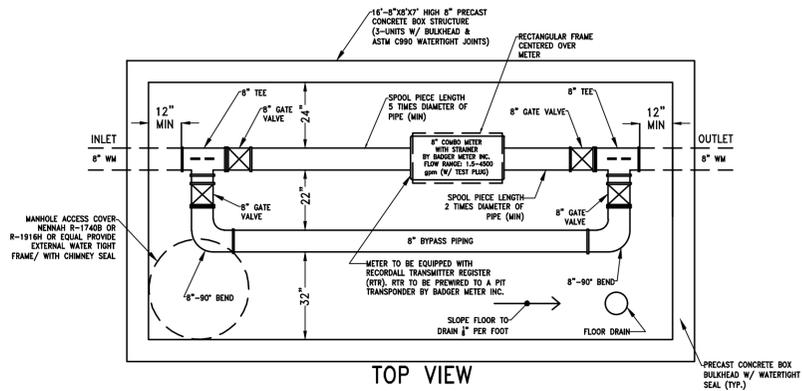
DESCRIPTION:
 CONSTRUCTION
 DETAILS

SHEET

C6.01



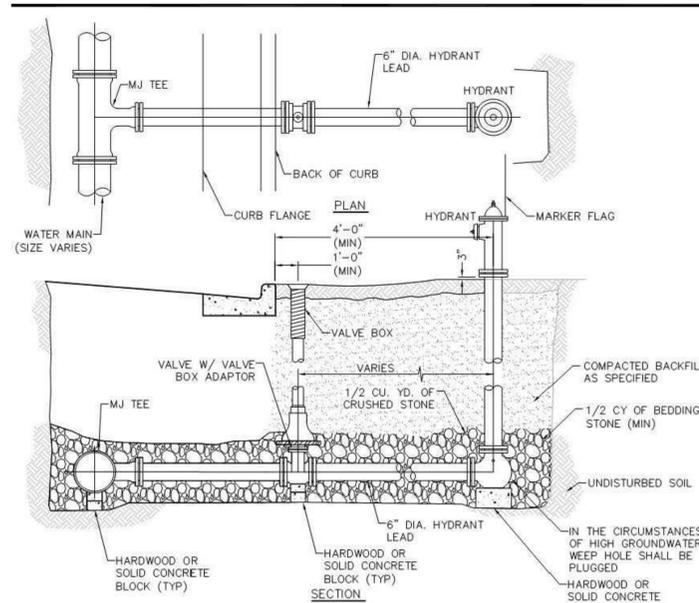
ELEVATION VIEW



TOP VIEW

WATER MAIN MONITORING METER VAULT DETAIL

NO SCALE



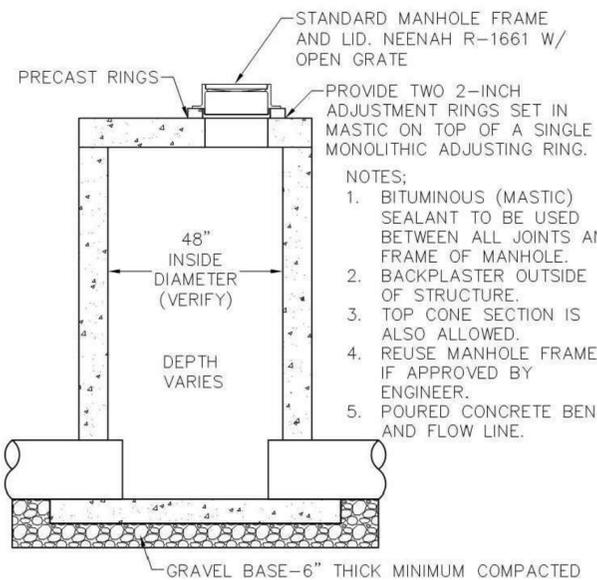
HYDRANT SETTING DETAIL

NO SCALE

- NOTE:
1. REFER TO FILE NO. 38 OF THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN" FOR FURTHER INFORMATION.
 2. ALL JOINTS ON HYDRANT LEADS SHALL HAVE MEGALUG RESTRAINTS.
 3. BURY DEPTH OF HYDRANT AND LEAD SHALL BE 7.5 FEET FOR NEW CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR FOR REPLACEMENT.

EXHIBIT WM-01

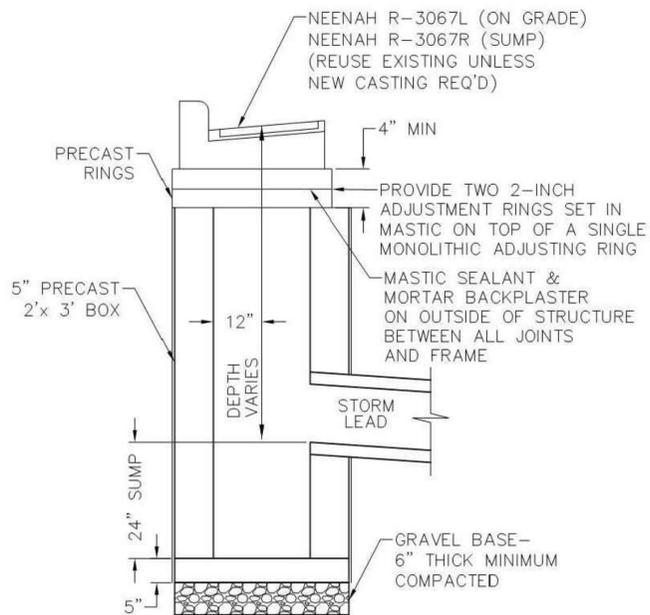
STORM SEWER END SECTION NOTE:
APRON END WALLS SHALL HAVE
CONCRETE CUT-OFF WALLS ON THEM.



STORM MANHOLE DETAIL

NO SCALE

STO-01 20

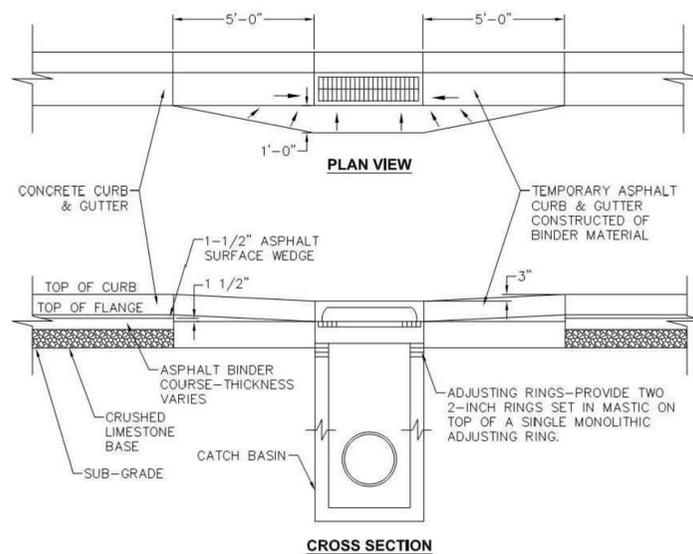


1. INLET TO BE PROTECTED WITH GEOTEXTILE FABRIC BETWEEN THE GRATE AND FRAME. PROTECTION TO REMAIN IN PLACE UNTIL SITE VEGETATION IS ESTABLISHED.
2. IN AREAS WITH ROLL FACE CURB, REPLACEMENT CURB SHALL TRANSITION TO VERTICAL FACE CURB & GUTTER AT INLET FRAME.

CATCH BASIN DETAIL

NO SCALE

STO-03 20



CROSS SECTION

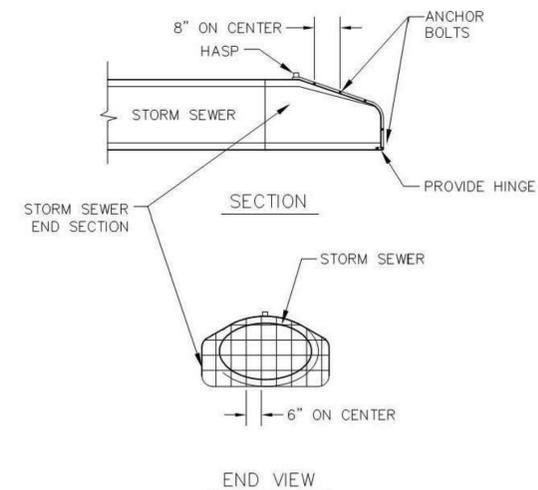
NOTE:

TEMPORARY BITUMINOUS CONCRETE CURB AND GUTTER TO REMAIN IN PLACE UNTIL FINISHED ASPHALT SURFACE COURSE IS SCHEDULED. PRIOR TO REPLACEMENT OF ASPHALT SURFACE COURSE, CONTRACTOR TO REMOVE TEMPORARY ASPHALT BINDER, CURB AND GUTTER. ADJUST FRAME TO PROPER GRADE AND POUR CONCRETE CURB AND GUTTER

INTERIM CATCH BASIN

NO SCALE

STO-CB-07 32



NOTES:

- 1) TRASH RACK BARS TO BE GALVANIZED.
- 2) CONNECTOR PLATE WITH BOLT ATTACHED AT THREE POINTS TO ENDWALL.
- 3) PLANT FIT TRASH RACK CONFIGURATION TO FIT RELATIVE END SECTION.

TRASH RACK

NO SCALE

STO-GRATE-04 96



4100 N. CALHOUN ROAD
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: info@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERN
LAKE COUNTRY LUTHERAN LAND
VILLAGE OF HARTLAND, WISCONSIN
BY: NEUMANN DEVELOPMENTS, INC.
N27W24025 PAUL COURT, SUITE 100
PEWAUKEE, WI 53072

REVISION HISTORY	
DATE	DESCRIPTION
07/02/20	PRELIMINARY SUBMITTAL

DATE:
JULY 2, 2020

JOB NUMBER:
19023-953

DESCRIPTION:
CONSTRUCTION
DETAILS

SHEET

C6.02

