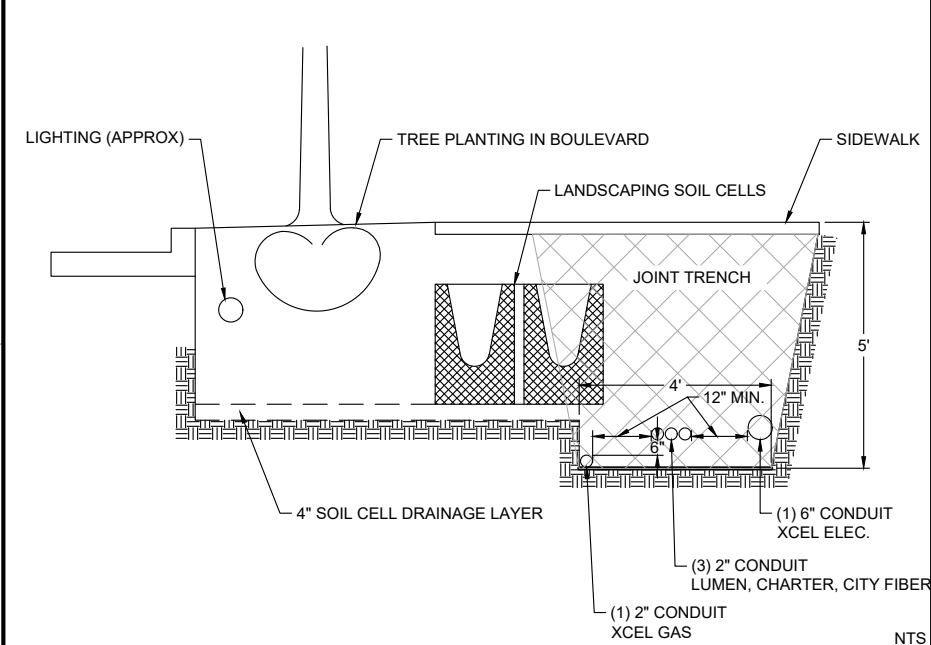


NOTES:

1. WORK ASSOCIATED WITH "CONDUIT SYSTEM (2-INCH CITY FIBER)" SHALL INCLUDE ITEMS SHOWN ON THE JOINT TRENCH PLAN AND SHALL REFERENCE SPECIFICATION SECTION 26 56 19. WHERE CONFLICTING INFORMATION EXISTS BETWEEN JOINT TRENCH PLAN AND SPECIFICATION, JOINT TRENCH PLAN SHALL TAKE PRECEDENCE.
2. JOINT TRENCH PLAN IS A SCHEMATIC REPRESENTATION OF PROPOSED GAS, ELECTRIC, AND COMMUNICATIONS INFRASTRUCTURE. ACTUAL LOCATIONS OF ABOVE AND BELOW GROUND INFRASTRUCTURE MAY BE ADJUSTED IN THE FIELD.
3. CONTRACTOR SHALL NOTIFY XCEL ENERGY GAS WHEN TRENCH BOTTOM IS AT GRADE. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
4. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF THREE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW XCEL ENERGY GAS TO INSTALL NECESSARY INFRASTRUCTURE.
5. CONTRACTOR SHALL BACKFILL TRENCH 6" OVER GAS MAIN.
6. CONTRACTOR SHALL NOTIFY XCEL ENERGY ELECTRIC, LUMEN, AND CHARTER WHEN TRENCH HAS BEEN BACKFILLED 6" OVER GAS. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
7. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF FIVE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW REMAINING UTILITIES TO INSTALL NECESSARY INFRASTRUCTURE.
8. CONTRACTOR SHALL INSTALL (1) 2-INCH CONDUIT IN CENTER OF TRENCH TO BE UTILIZED FOR FUTURE CITY OF LA CROSSE FIBER OPTIC CABLE.
9. JOINT TRENCH COORDINATION IS INCIDENTAL TO "CONDUIT SYSTEM (2-INCH CITY FIBER)"

JOINT TRENCH DETAIL



Save: 9/29/2022 8:00 AM Iketihut Plot: 9/30/2022 7:42 AM X:\KOLL\LACRS\163627\5-final-dgn\51-drawings\10-Civil\cadd\dwg\sheet\LACRS163627DT_JOINT TRENCH.dwg

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022			
		4	REVISED FOR CONSTRUCTION	09.30.2022			

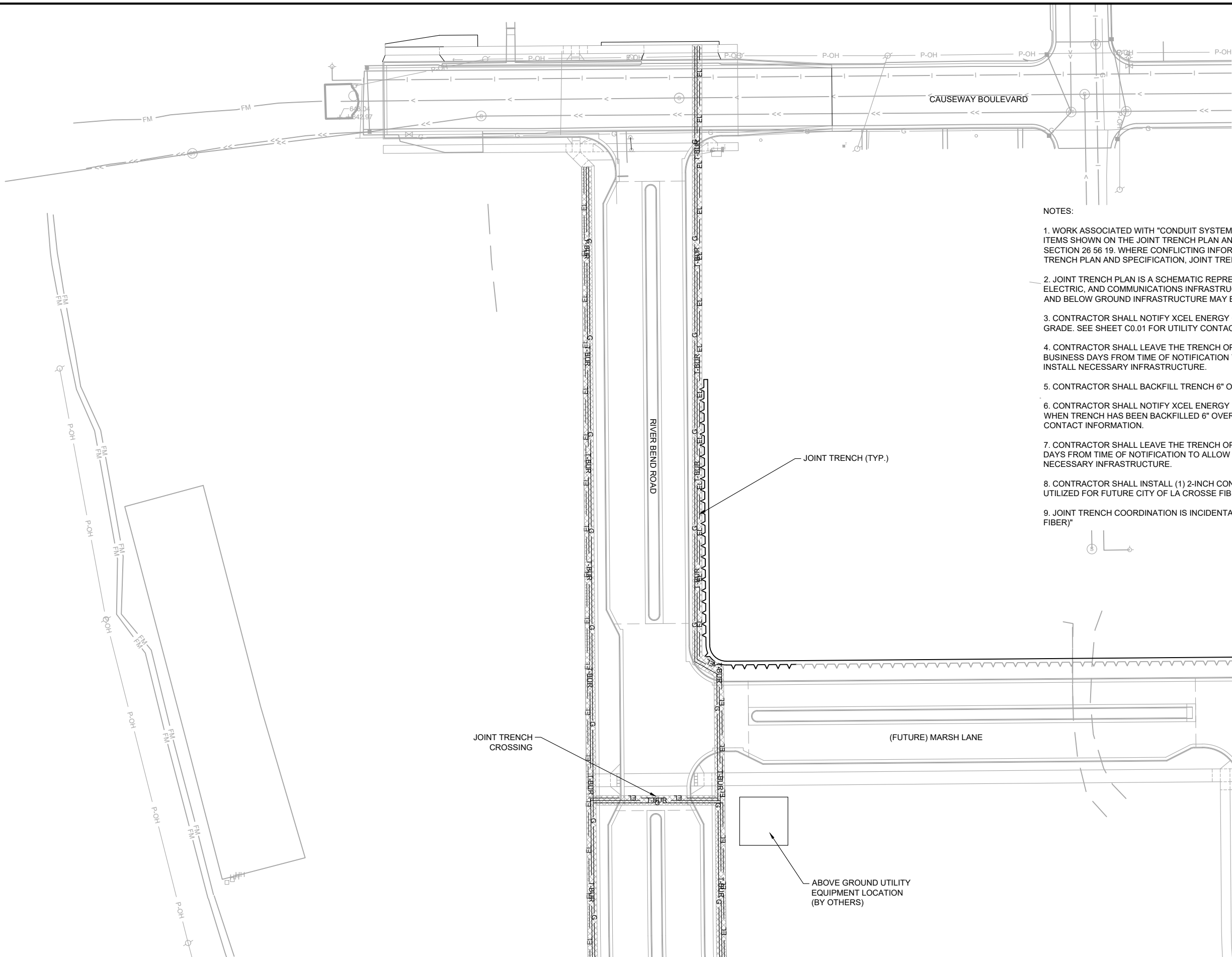


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

**JOINT TRENCH PLAN
OVERVIEW**

C2.31

NTS



NOTES:

1. WORK ASSOCIATED WITH "CONDUIT SYSTEM (2-INCH CITY FIBER)" SHALL INCLUDE ITEMS SHOWN ON THE JOINT TRENCH PLAN AND SHALL REFERENCE SPECIFICATION SECTION 26 56 19. WHERE CONFLICTING INFORMATION EXISTS BETWEEN JOINT TRENCH PLAN AND SPECIFICATION, JOINT TRENCH PLAN SHALL TAKE PRECEDENCE.
2. JOINT TRENCH PLAN IS A SCHEMATIC REPRESENTATION OF PROPOSED GAS, ELECTRIC, AND COMMUNICATIONS INFRASTRUCTURE. ACTUAL LOCATIONS OF ABOVE AND BELOW GROUND INFRASTRUCTURE MAY BE ADJUSTED IN THE FIELD.
3. CONTRACTOR SHALL NOTIFY XCEL ENERGY GAS WHEN TRENCH BOTTOM IS AT GRADE. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
4. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF THREE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW XCEL ENERGY GAS TO INSTALL NECESSARY INFRASTRUCTURE.
5. CONTRACTOR SHALL BACKFILL TRENCH 6" OVER GAS MAIN.
6. CONTRACTOR SHALL NOTIFY XCEL ENERGY ELECTRIC, LUMEN, AND CHARTER WHEN TRENCH HAS BEEN BACKFILLED 6" OVER GAS. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
7. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF FIVE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW REMAINING UTILITIES TO INSTALL NECESSARY INFRASTRUCTURE.
8. CONTRACTOR SHALL INSTALL (1) 2-INCH CONDUIT IN CENTER OF TRENCH TO BE UTILIZED FOR FUTURE CITY OF LA CROSSE FIBER OPTIC CABLE.
9. JOINT TRENCH COORDINATION IS INCIDENTAL TO "CONDUIT SYSTEM (2-INCH CITY FIBER)"



Save: 9/29/2022 8:00 AM Iketelhut Plot: 9/30/2022 7:42 AM X:\KOLL\LACRS\163627\5-final-dgn\51-drawings\10-Civil\cauld\sheet\LACRS163627DT_JOINT TRENCH.dwg

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022			
		4	REVISED FOR CONSTRUCTION	09.30.2022			



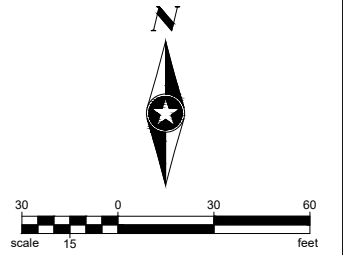
RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

JOINT TRENCH PLAN

C2.32

NOTES:

1. WORK ASSOCIATED WITH "CONDUIT SYSTEM (2-INCH CITY FIBER)" SHALL INCLUDE ITEMS SHOWN ON THE JOINT TRENCH PLAN AND SHALL REFERENCE SPECIFICATION SECTION 26 58 19. WHERE CONFLICTING INFORMATION EXISTS BETWEEN JOINT TRENCH PLAN AND SPECIFICATION, JOINT TRENCH PLAN SHALL TAKE PRECEDENCE.
2. JOINT TRENCH PLAN IS A SCHEMATIC REPRESENTATION OF PROPOSED GAS, ELECTRIC, AND COMMUNICATIONS INFRASTRUCTURE. ACTUAL LOCATIONS OF ABOVE AND BELOW GROUND INFRASTRUCTURE MAY BE ADJUSTED IN THE FIELD.
3. CONTRACTOR SHALL NOTIFY XCEL ENERGY GAS WHEN TRENCH BOTTOM IS AT GRADE. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
4. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF THREE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW XCEL ENERGY GAS TO INSTALL NECESSARY INFRASTRUCTURE.
5. CONTRACTOR SHALL BACKFILL TRENCH 6" OVER GAS MAIN.
6. CONTRACTOR SHALL NOTIFY XCEL ENERGY ELECTRIC, LUMEN, AND CHARTER WHEN TRENCH HAS BEEN BACKFILLED 6" OVER GAS. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
7. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF FIVE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW REMAINING UTILITIES TO INSTALL NECESSARY INFRASTRUCTURE.
8. CONTRACTOR SHALL INSTALL (1) 2-INCH CONDUIT IN CENTER OF TRENCH TO BE UTILIZED FOR FUTURE CITY OF LA CROSSE FIBER OPTIC CABLE.
9. JOINT TRENCH COORDINATION IS INCIDENTAL TO "CONDUIT SYSTEM (2-INCH CITY FIBER)"



JOINT TRENCH CROSSING

ABOVE GROUND UTILITY EQUIPMENT LOCATION (BY OTHERS)

JOINT TRENCH (TYP.)

JOINT TRENCH (TYP.)

Save: 9/29/2022 8:00 AM Iketelhu Plot: 9/30/2022 7:42 AM X:\KOLL\ACRS\163627\5-final-dgn\51-drawings\10-Civil\ca\dwg\sheet\ACRS163627DT_JOINT TRENCH.dwg

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	RIVER POINT DISTRICT		JOINT TRENCH PLAN		C2.33	
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022						LA CROSSE, WISCONSIN			
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022									
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022									
		4	REVISED FOR CONSTRUCTION	09.30.2022									



(FUTURE) KRAFT STREET

(FUTURE) EAGLE REST ROAD

RIVER BEND ROAD

JOINT TRENCH (TYP.)

JOINT TRENCH (TYP.)

JOINT TRENCH (TYP.)

JOINT TRENCH CROSSING

ABOVE GROUND UTILITY EQUIPMENT LOCATION (BY OTHERS)

NOTES:

1. WORK ASSOCIATED WITH "CONDUIT SYSTEM (2-INCH CITY FIBER)" SHALL INCLUDE ITEMS SHOWN ON THE JOINT TRENCH PLAN AND SHALL REFERENCE SPECIFICATION SECTION 26 56 19. WHERE CONFLICTING INFORMATION EXISTS BETWEEN JOINT TRENCH PLAN AND SPECIFICATION, JOINT TRENCH PLAN SHALL TAKE PRECEDENCE.
2. JOINT TRENCH PLAN IS A SCHEMATIC REPRESENTATION OF PROPOSED GAS, ELECTRIC, AND COMMUNICATIONS INFRASTRUCTURE. ACTUAL LOCATIONS OF ABOVE AND BELOW GROUND INFRASTRUCTURE MAY BE ADJUSTED IN THE FIELD.
3. CONTRACTOR SHALL NOTIFY XCEL ENERGY GAS WHEN TRENCH BOTTOM IS AT GRADE. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
4. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF THREE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW XCEL ENERGY GAS TO INSTALL NECESSARY INFRASTRUCTURE.
5. CONTRACTOR SHALL BACKFILL TRENCH 6" OVER GAS MAIN.
6. CONTRACTOR SHALL NOTIFY XCEL ENERGY ELECTRIC, LUMEN, AND CHARTER WHEN TRENCH HAS BEEN BACKFILLED 6" OVER GAS. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
7. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF FIVE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW REMAINING UTILITIES TO INSTALL NECESSARY INFRASTRUCTURE.
8. CONTRACTOR SHALL INSTALL (1) 2-INCH CONDUIT IN CENTER OF TRENCH TO BE UTILIZED FOR FUTURE CITY OF LA CROSSE FIBER OPTIC CABLE.
9. JOINT TRENCH COORDINATION IS INCIDENTAL TO "CONDUIT SYSTEM (2-INCH CITY FIBER)"

Save: 9/29/2022 8:00 AM Iketelhut Plot: 9/30/2022 7:42 AM X:\KOLL\LACRS\163627\5-final-dgn\51-drawings\10-Civil\caed\dwg\sheet\LACRS163627DT_JOINT TRENCH.dwg

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022			
		4	REVISED FOR CONSTRUCTION	09.30.2022			



RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

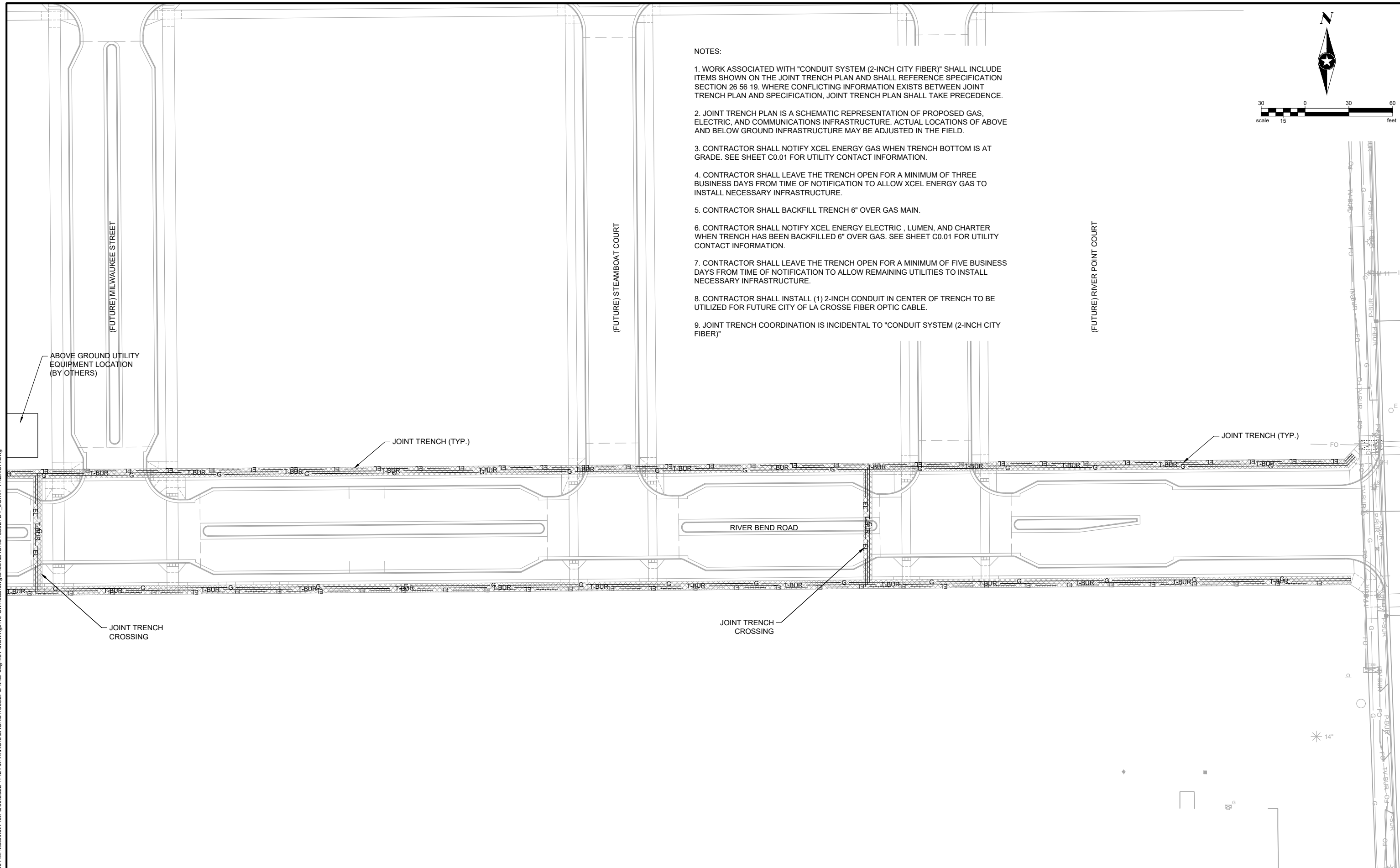
JOINT TRENCH PLAN

C2.34



NOTES:

1. WORK ASSOCIATED WITH "CONDUIT SYSTEM (2-INCH CITY FIBER)" SHALL INCLUDE ITEMS SHOWN ON THE JOINT TRENCH PLAN AND SHALL REFERENCE SPECIFICATION SECTION 26 56 19. WHERE CONFLICTING INFORMATION EXISTS BETWEEN JOINT TRENCH PLAN AND SPECIFICATION, JOINT TRENCH PLAN SHALL TAKE PRECEDENCE.
2. JOINT TRENCH PLAN IS A SCHEMATIC REPRESENTATION OF PROPOSED GAS, ELECTRIC, AND COMMUNICATIONS INFRASTRUCTURE. ACTUAL LOCATIONS OF ABOVE AND BELOW GROUND INFRASTRUCTURE MAY BE ADJUSTED IN THE FIELD.
3. CONTRACTOR SHALL NOTIFY XCEL ENERGY GAS WHEN TRENCH BOTTOM IS AT GRADE. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
4. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF THREE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW XCEL ENERGY GAS TO INSTALL NECESSARY INFRASTRUCTURE.
5. CONTRACTOR SHALL BACKFILL TRENCH 6" OVER GAS MAIN.
6. CONTRACTOR SHALL NOTIFY XCEL ENERGY ELECTRIC, LUMEN, AND CHARTER WHEN TRENCH HAS BEEN BACKFILLED 6" OVER GAS. SEE SHEET C0.01 FOR UTILITY CONTACT INFORMATION.
7. CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR A MINIMUM OF FIVE BUSINESS DAYS FROM TIME OF NOTIFICATION TO ALLOW REMAINING UTILITIES TO INSTALL NECESSARY INFRASTRUCTURE.
8. CONTRACTOR SHALL INSTALL (1) 2-INCH CONDUIT IN CENTER OF TRENCH TO BE UTILIZED FOR FUTURE CITY OF LA CROSSE FIBER OPTIC CABLE.
9. JOINT TRENCH COORDINATION IS INCIDENTAL TO "CONDUIT SYSTEM (2-INCH CITY FIBER)"



Save: 9/29/2022 8:00 AM Iketelhut Plot: 9/30/2022 7:42 AM X:\KOLL\LACRS\163627\5-final-dgn\51-drawings\10-Civil\caedwg\sheet\LACRS163627DT_JOINT TRENCH.dwg

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022			
		4	REVISED FOR CONSTRUCTION	09.30.2022			



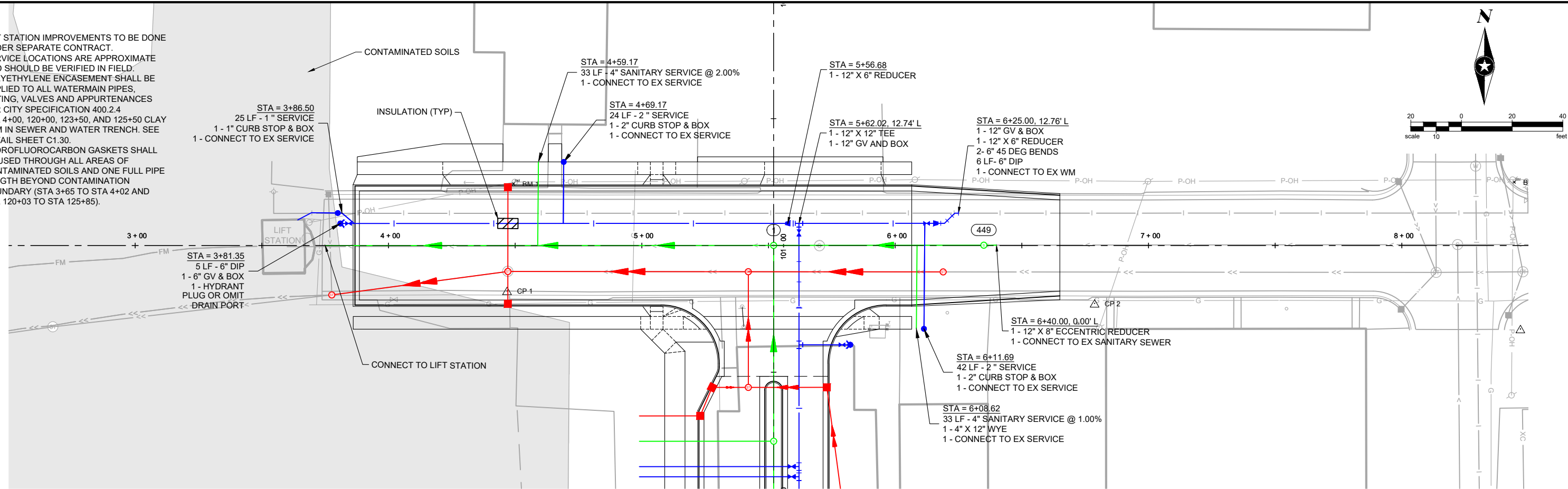
RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

JOINT TRENCH PLAN

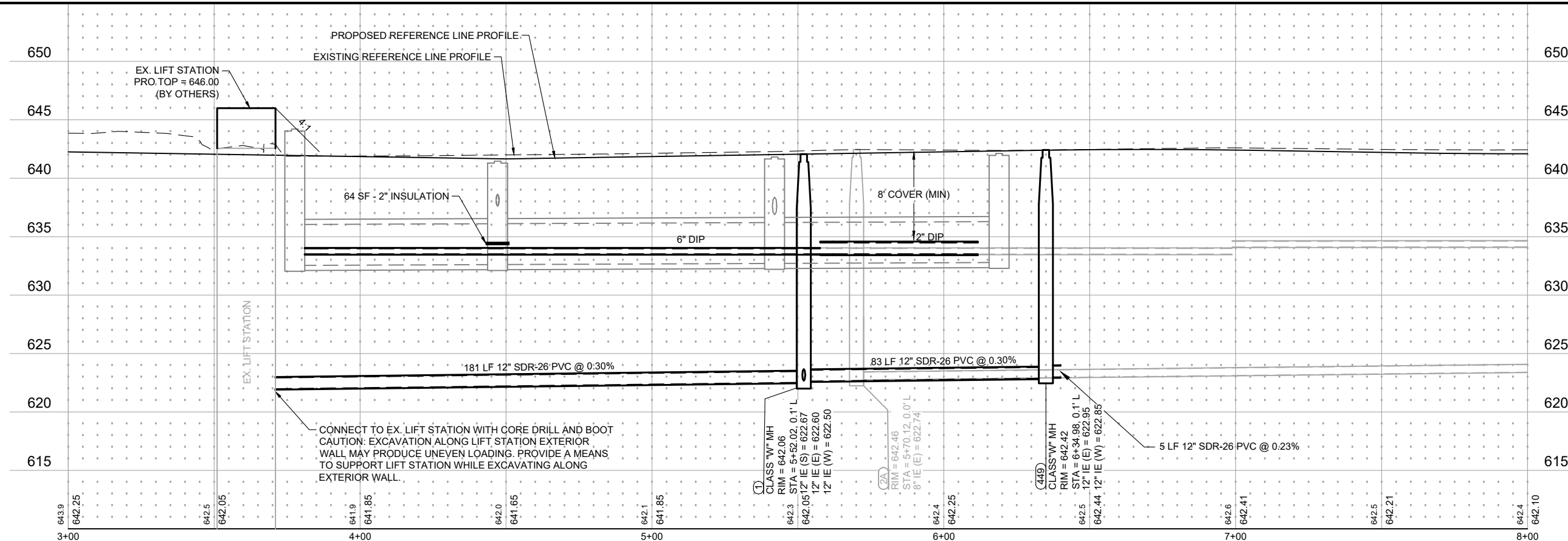
C2.35

NOTES:

1. LIFT STATION IMPROVEMENTS TO BE DONE UNDER SEPARATE CONTRACT.
2. SERVICE LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN FIELD.
3. POLYETHYLENE ENCASEMENT SHALL BE APPLIED TO ALL WATERMAIN PIPES, FITTING, VALVES AND APPURTENANCES PER CITY SPECIFICATION 400.2.4
4. STA 4+00, 120+00, 123+50, AND 125+50 CLAY DAM IN SEWER AND WATER TRENCH. SEE DETAIL SHEET C1.30.
5. HYDROFLUOROCARBON GASKETS SHALL BE USED THROUGH ALL AREAS OF CONTAMINATED SOILS AND ONE FULL PIPE LENGTH BEYOND CONTAMINATION BOUNDARY (STA 3+65 TO STA 4+02 AND STA 120+03 TO STA 125+85).



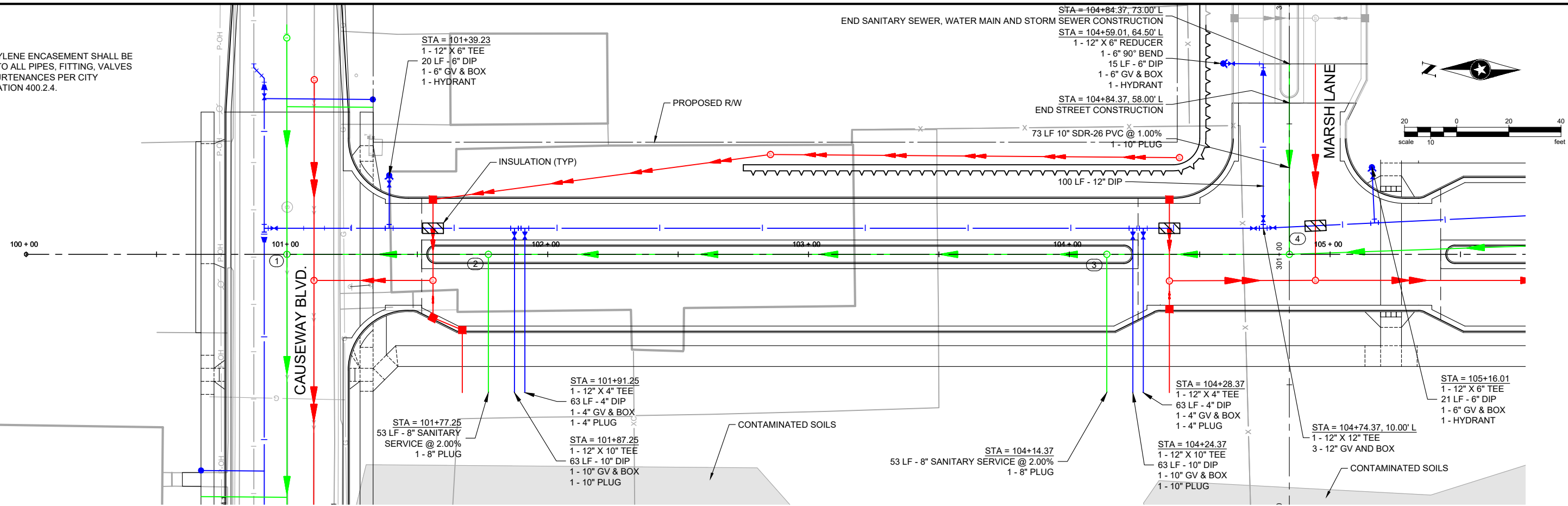
CAUSEWAY BOULEVARD



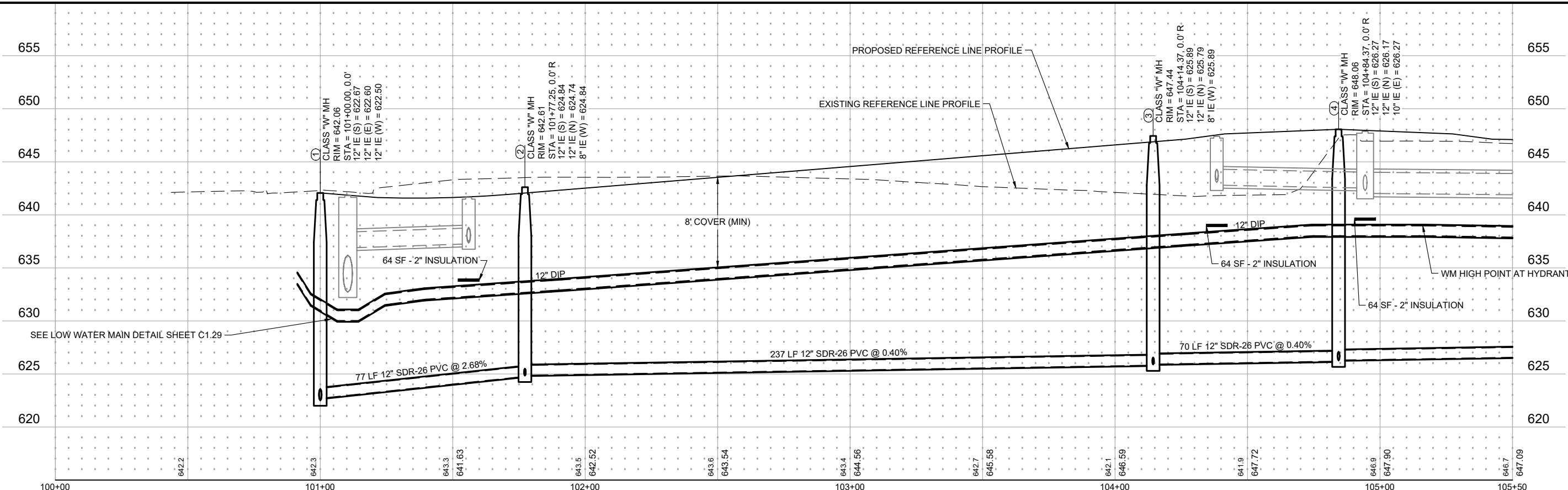
Save: 9/29/2022 7:59 AM slanson Plot: 9/30/2022 7:43 AM X:\KOLLACRS1\6382715-final-dsgn\5-drawings\10-Civil\cad\dwg\sheet\LA CR S163827PP_Causeway.dwg

NOTES:

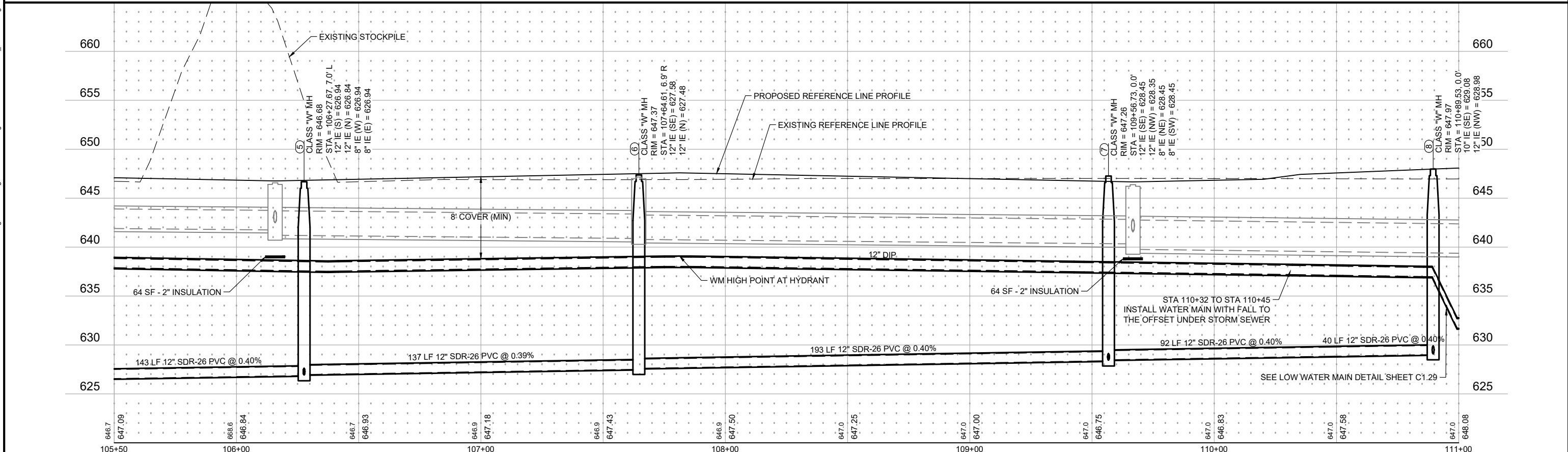
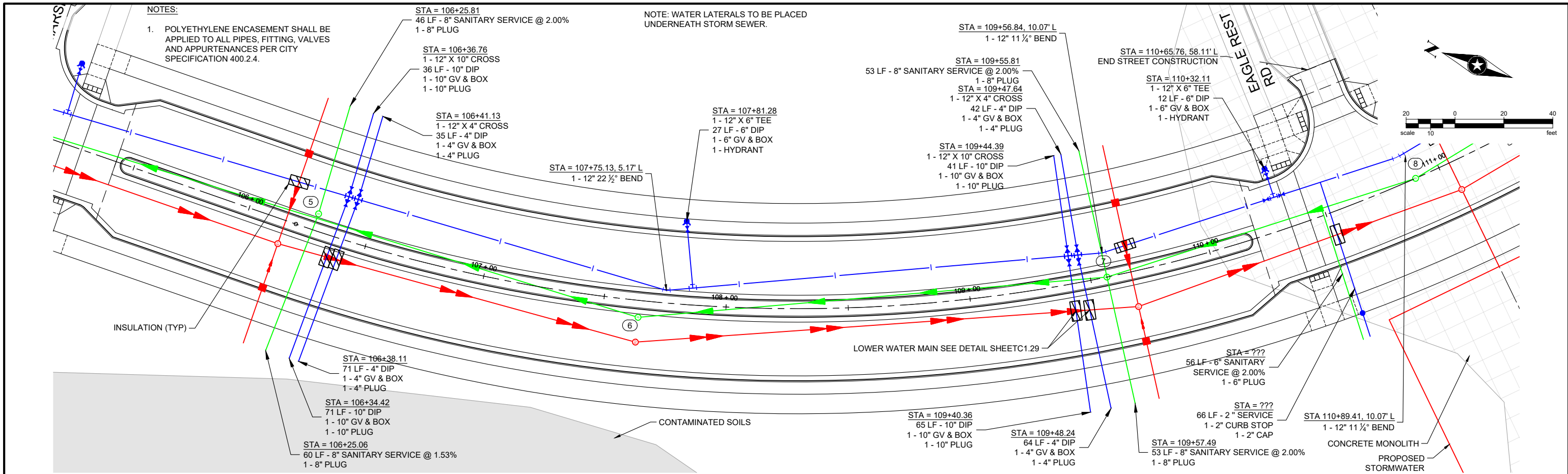
1. POLYETHYLENE ENCASEMENT SHALL BE APPLIED TO ALL PIPES, FITTING, VALVES AND APPURTENANCES PER CITY SPECIFICATION 400.2.4.



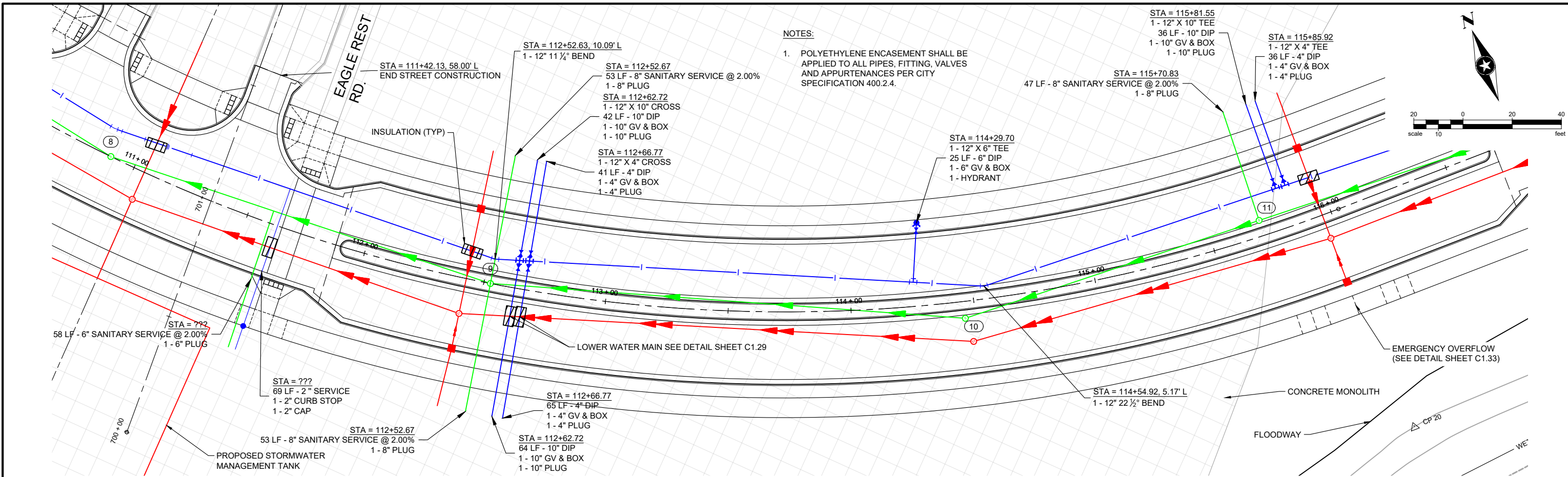
RIVER BEND ROAD



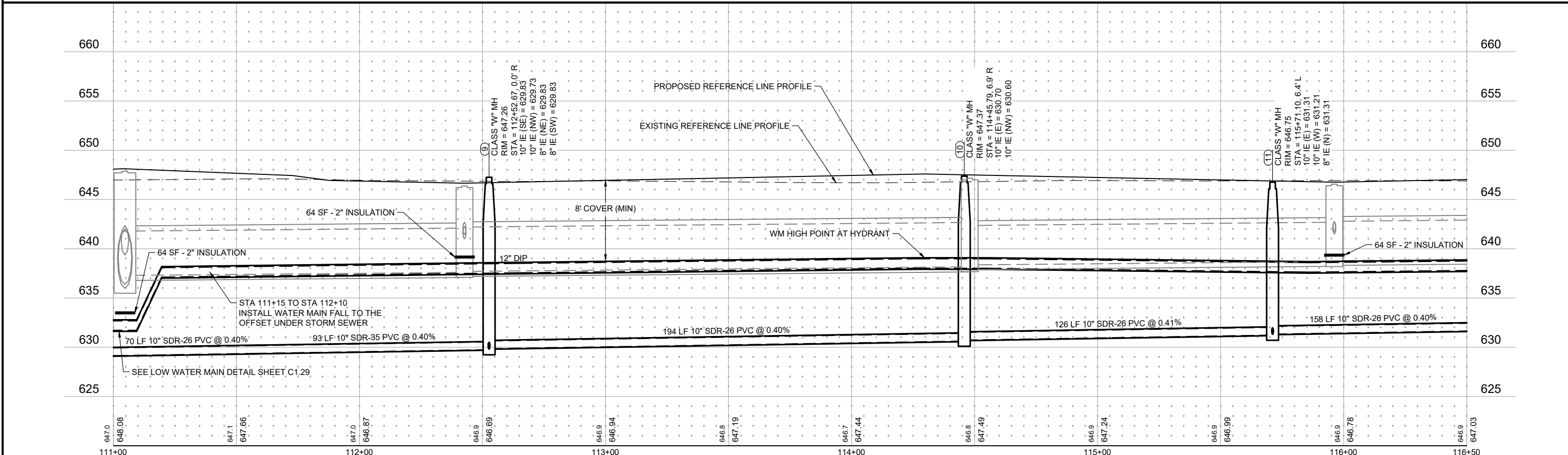
Save: 9/29/2022 8:02 AM Ikelthut Plot: 9/30/2022 7:45 AM X:\KOLL\ACRS\163627\5-final\csgn\5-1-drawings\10-Civil\cadd\dwg\sheet\ACRS163627PP_Street_A.dwg



Save: 9/29/2022 8:02 AM Ikelthut Plot: 9/30/2022 7:45 AM X:\KOLL\ACRS\1163627\5-final\csgn\5-1-drawings\10-Civil\cadd\dwg\sheet\ACRS1163627PP_Street_A.dwg



RIVER BEND ROAD



Save: 9/29/2022 8:02 AM Ikelthut Plot: 9/30/2022 7:45 AM X:\KOLL\ACRS\163627\5-final\csgn\5-1-drawings\10-Civil\cadd\dwg\sheet\ACRS163627_PP_Street_A.dwg

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

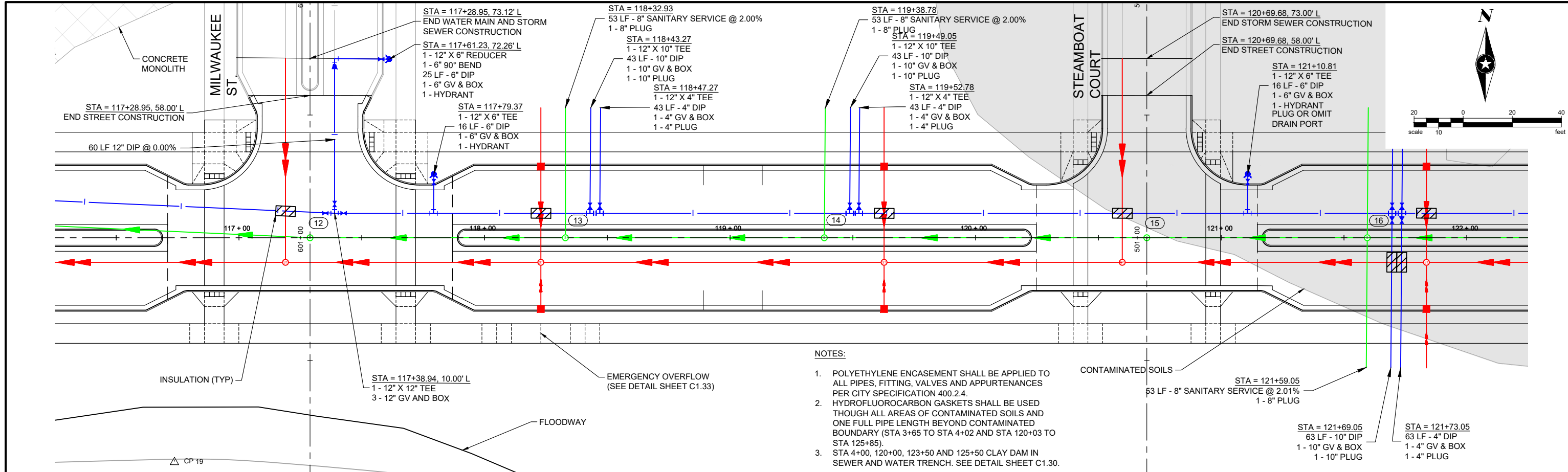
Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022



RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

**WATER MAIN AND SANITARY SEWER
PLAN & PROFILE
RIVER BEND ROAD**

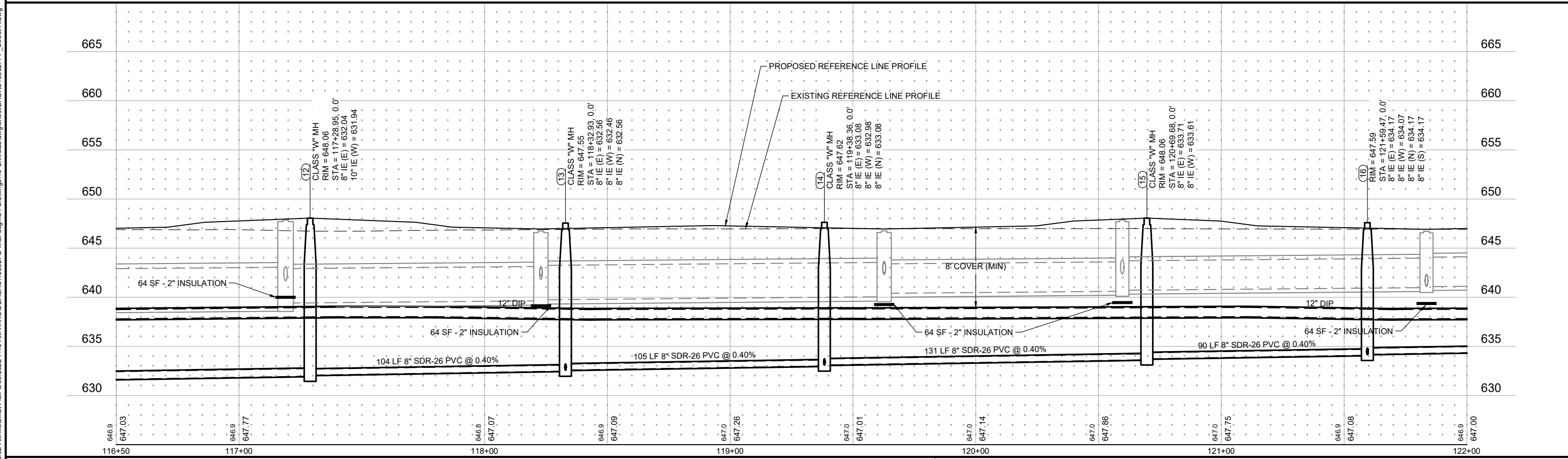
C3.04



NOTES:

- POLYETHYLENE ENCASEMENT SHALL BE APPLIED TO ALL PIPES, FITTING, VALVES AND APPURTENANCES PER CITY SPECIFICATION 400.2.4.
- HYDROFLUOROCARBON GASKETS SHALL BE USED THROUGH ALL AREAS OF CONTAMINATED SOILS AND ONE FULL PIPE LENGTH BEYOND CONTAMINATED BOUNDARY (STA 3+65 TO STA 4+02 AND STA 120+03 TO STA 125+85).
- STA 4+00, 120+00, 123+50 AND 125+50 CLAY DAM IN SEWER AND WATER TRENCH. SEE DETAIL SHEET C1.30.

RIVER BEND ROAD



Rev.#	Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

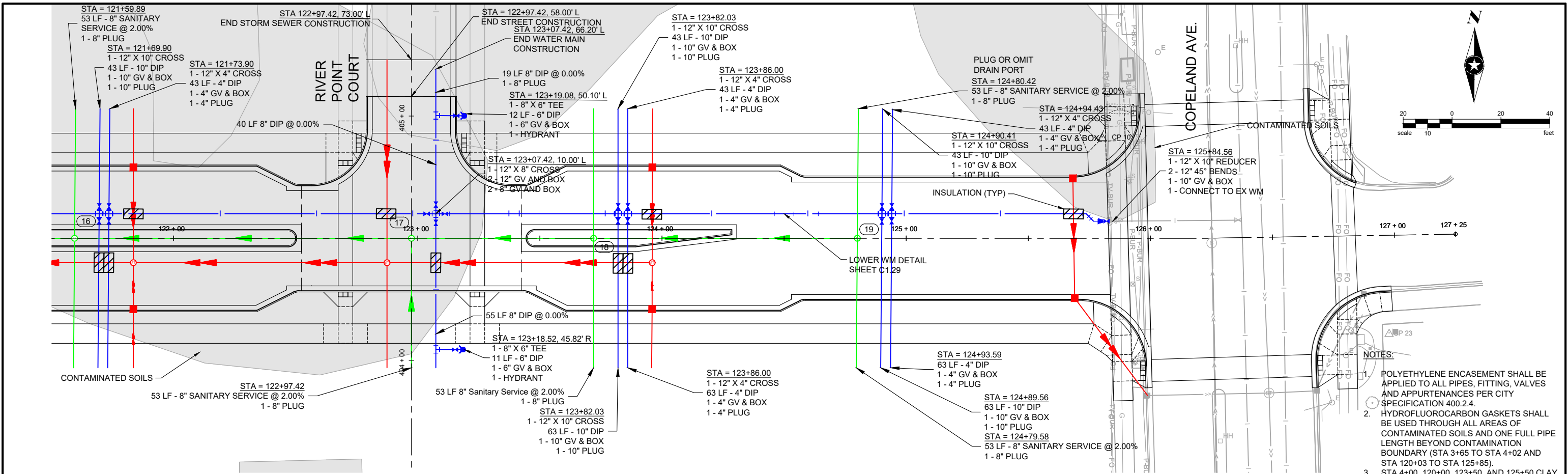
Rev.#	Description	Date
1		
2		
3		
4		

RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

**WATER MAIN AND SANITARY SEWER
PLAN & PROFILE
RIVER BEND ROAD**

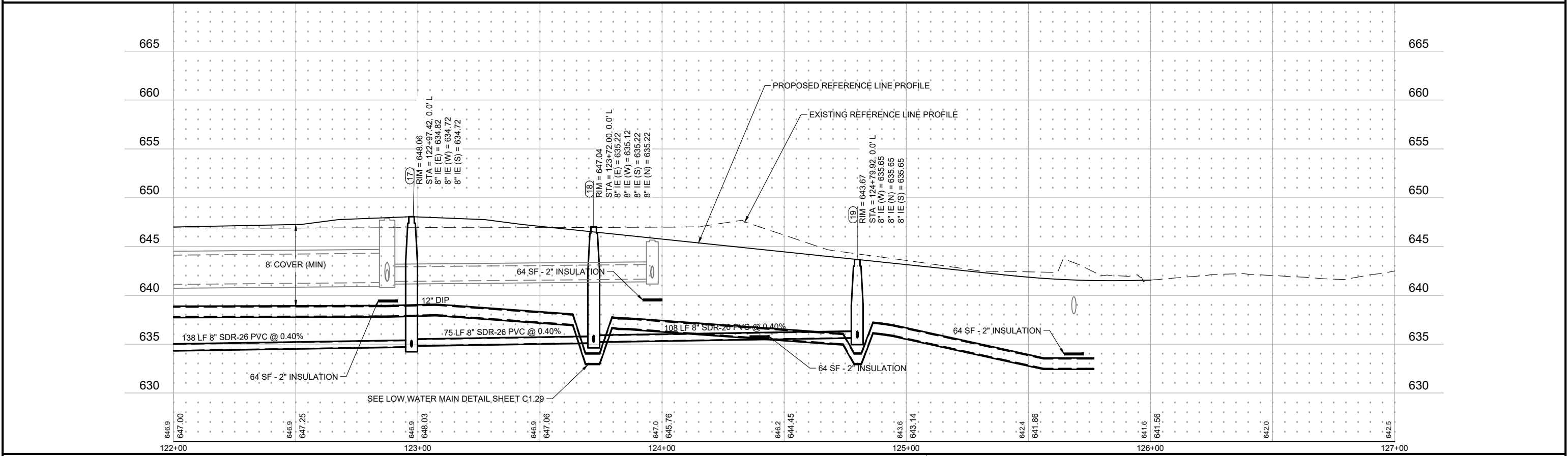
C3.05

Save: 9/29/2022 8:02 AM Ikelshut Plot: 9/30/2022 7:45 AM X:\KOLL LACRS1163627\5-final-dsgn\5-1-drawings\10-civil\cad\dwg\sheet\LACRS1163627_PP_Street_A.dwg



RIVER BEND ROAD

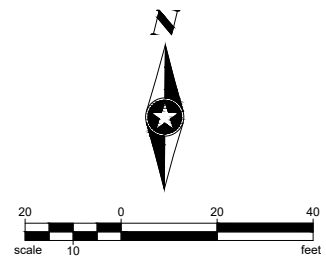
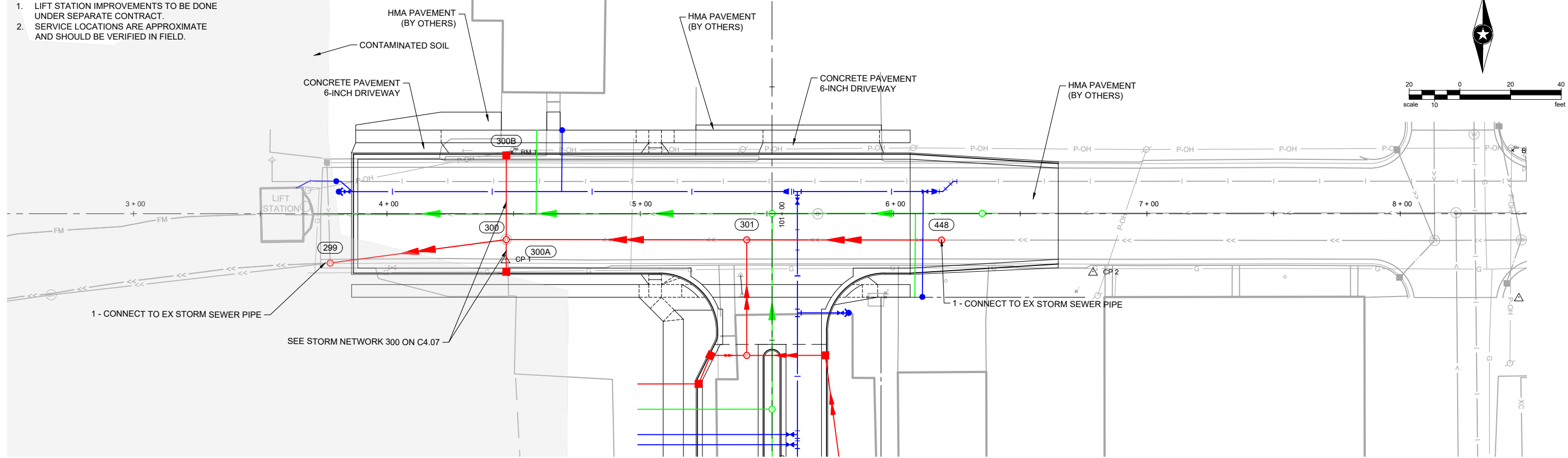
- NOTES:**
- POLYETHYLENE ENCASUREMENT SHALL BE APPLIED TO ALL PIPES, FITTING, VALVES AND APPURTENANCES PER CITY SPECIFICATION 400.2.4.
 - HYDROFLUOROCARBON GASKETS SHALL BE USED THROUGH ALL AREAS OF CONTAMINATED SOILS AND ONE FULL PIPE LENGTH BEYOND CONTAMINATION BOUNDARY (STA 3+65 TO STA 4+02 AND STA 120+03 TO STA 125+85).
 - STA 4+00, 120+00, 123+50, AND 125+50 CLAY DAM IN SEWER AND WATER TRENCH. SEE DETAIL SHEET C1.30.



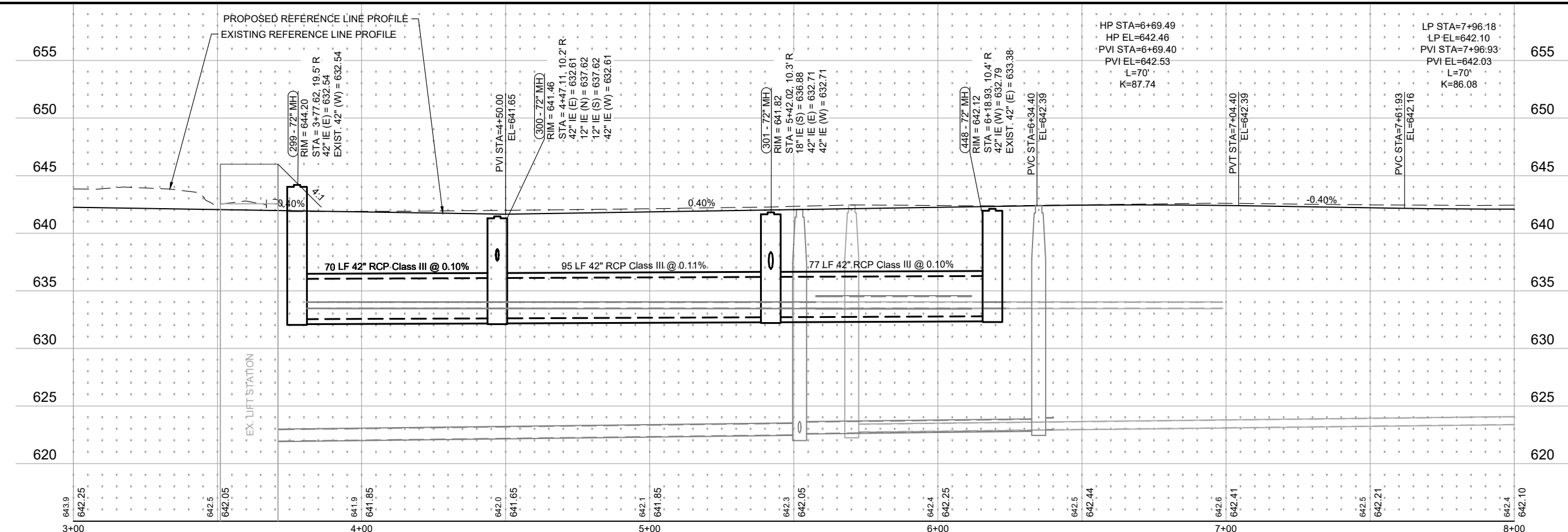
Save: 9/29/2022 8:02 AM Ikelihut Plot: 9/30/2022 7:45 AM X:\KOLL\ACRS\163627\5-final-dwg\sheet\5-1-drawings\10-Civil\cad\dwg\sheet\U\ACRS163627PP_Street_A.dwg

NOTES:

- LIFT STATION IMPROVEMENTS TO BE DONE UNDER SEPARATE CONTRACT.
- SERVICE LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN FIELD.



CAUSEWAY BOULEVARD



Save: 9/29/2022 8:00 AM slanson Plot: 9/30/2022 7:46 AM X:\KOLL\CRS1163627\5-final-dsgn\5-drawings\10-Civil\dwg\sheet\163627\PP_Causeway Storm.dwg

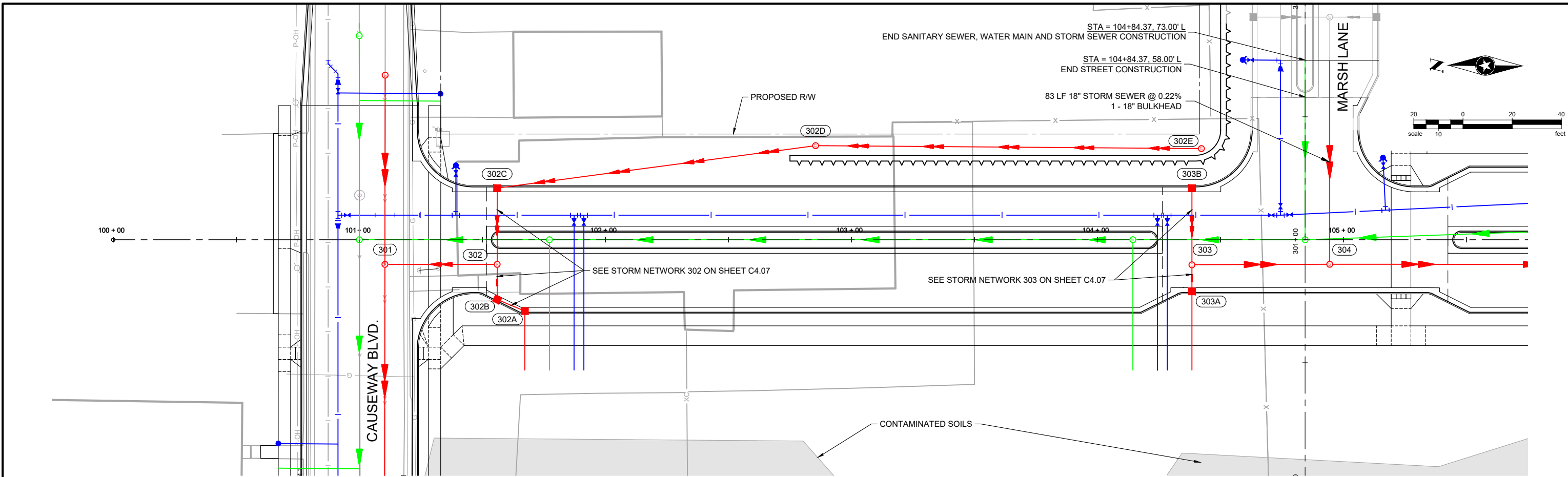
Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

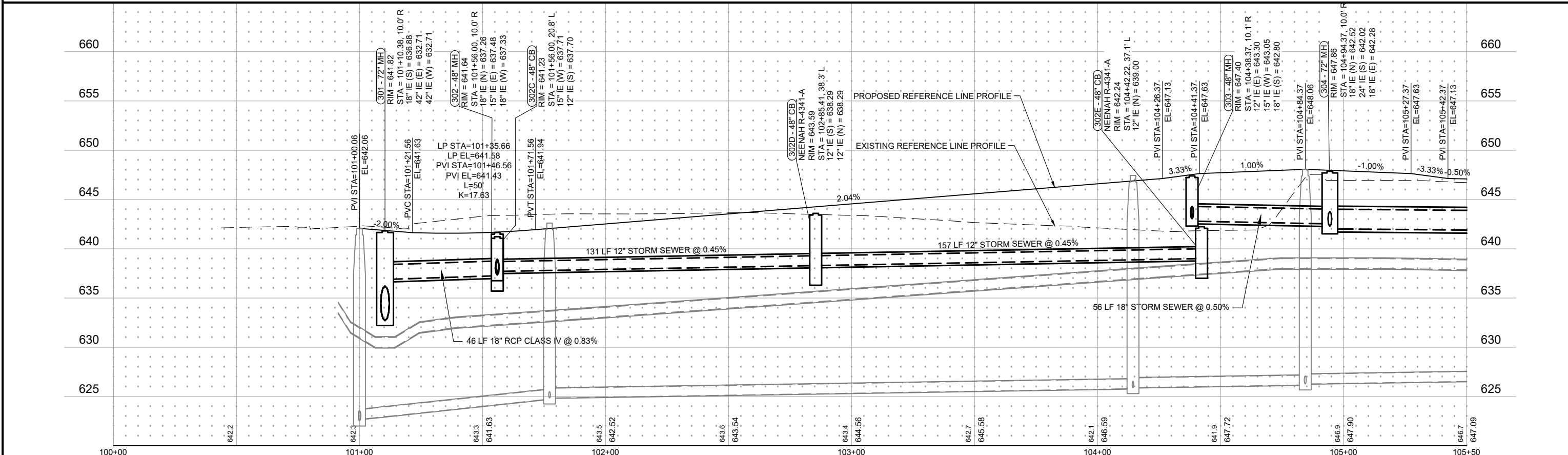


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

STORM SEWER AND STREET PLAN & PROFILE
CAUSEWAY BOULEVARD



RIVER BEND ROAD



Save: 9/29/2022 8:02 AM Ikelthut Plot: 9/30/2022 7:48 AM X:\KOLL\ACRS\163627\5-final\csgn\5-1-drawings\10-Civil\cadd\wgj\sheet\ACRS163627_PP_Street_A.storm.dwg

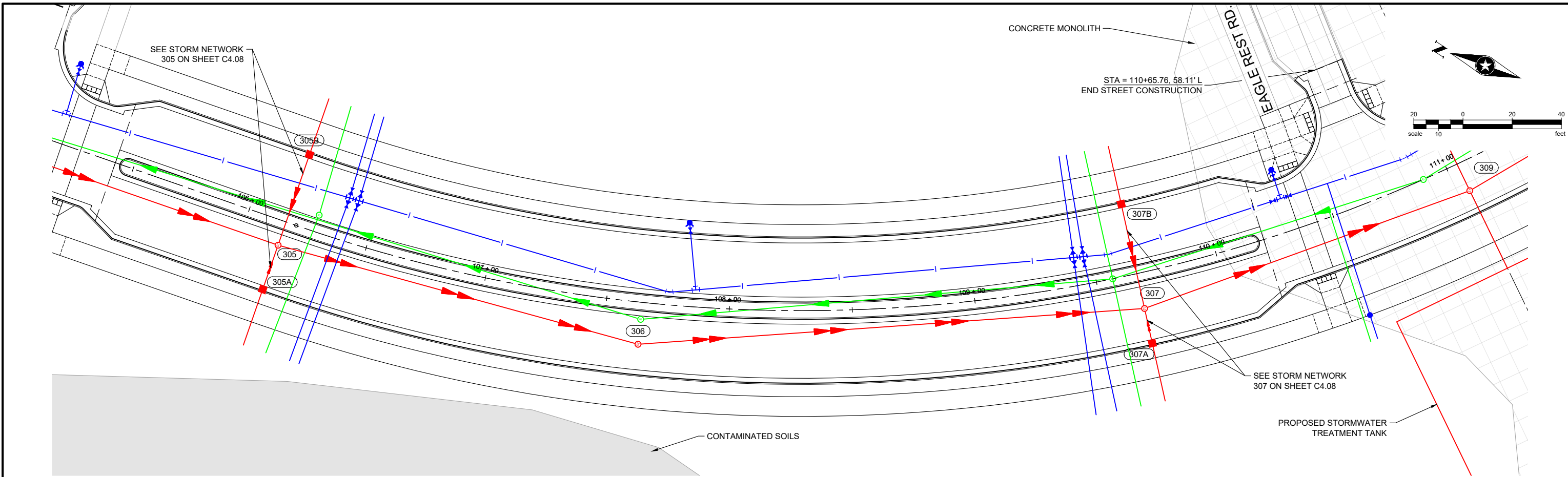
Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
1		

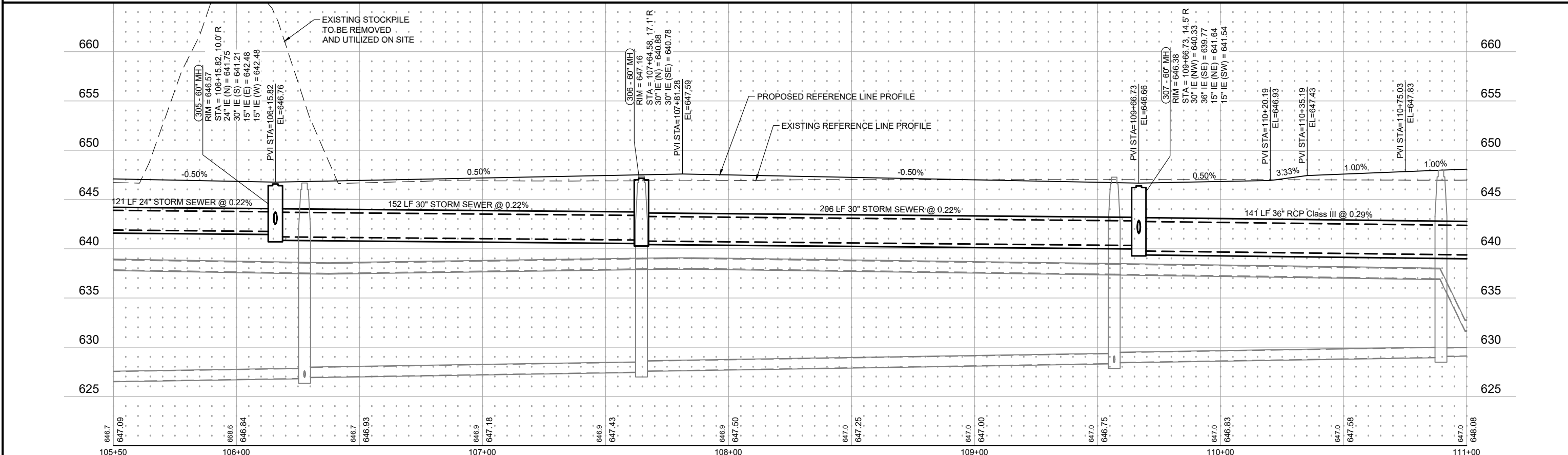


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

**STORM SEWER AND STREET
PLAN & PROFILE
RIVER BEND ROAD**



RIVER BEND ROAD



Save: 9/29/2022 8:02 AM Ikelthut Plot: 9/30/2022 7:48 AM X:\KOLL\ACRS\163627\5-final\csgn\5-1\drawings\10-Civil\cadd\dwg\sheet\ACRS163627_PP_Street_A_storm.dwg

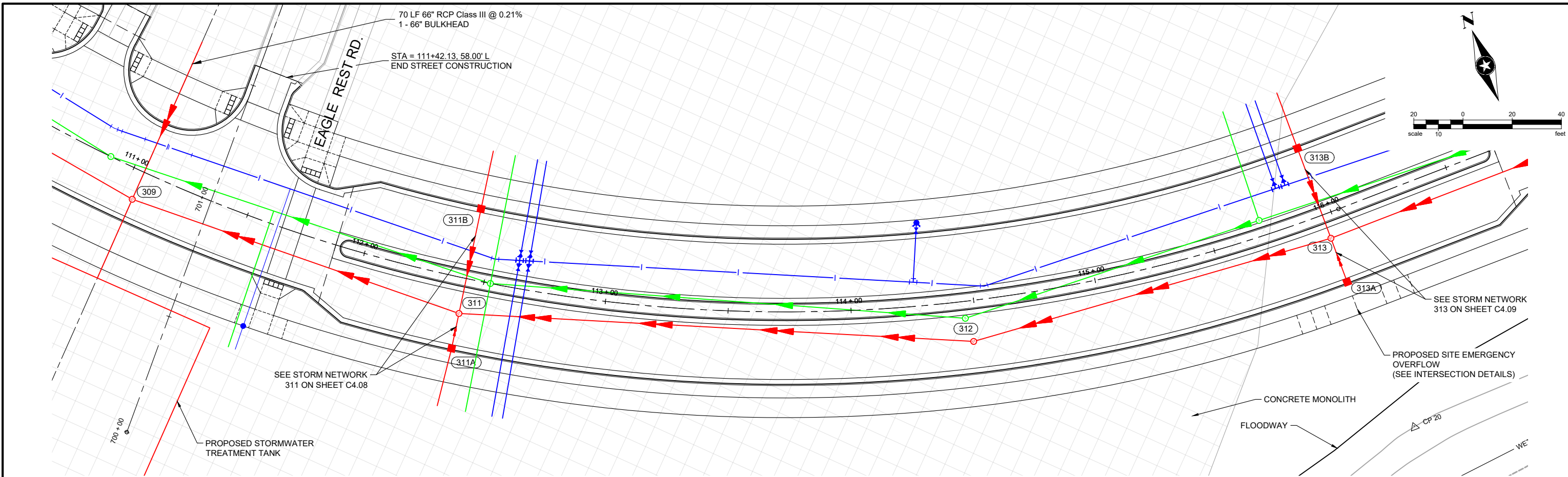
Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
1		
2		
3		
4		

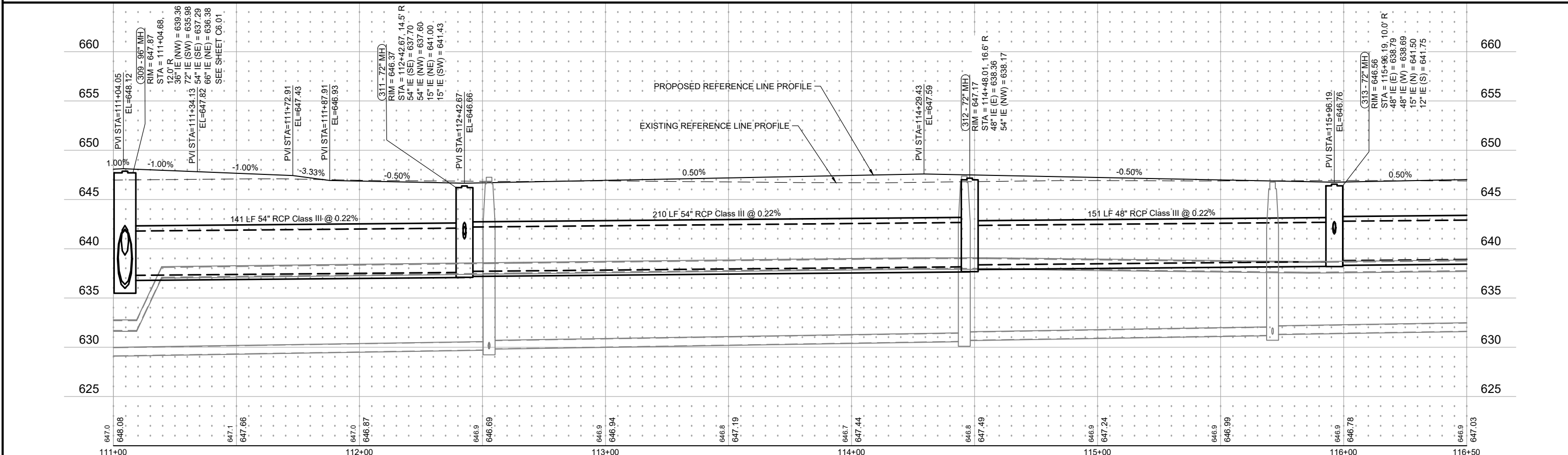


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

STORM SEWER AND STREET
PLAN & PROFILE
RIVER BEND ROAD



RIVER BEND ROAD



Save: 9/29/2022 8:02 AM Ikelshut Plot: 9/30/2022 7:48 AM X:\KOLL\ACRS\163627\5-final\csgn\5-1-drawings\10-Civil\cad\wg\sheet\ACRS163627_PP_Street_A.storm.dwg

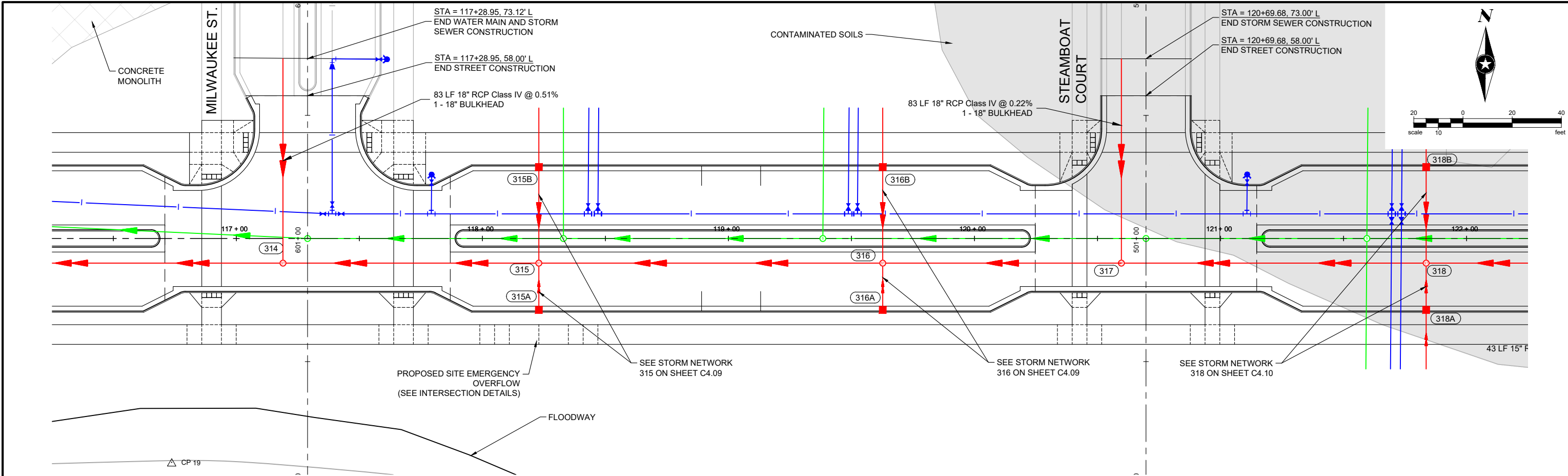
Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

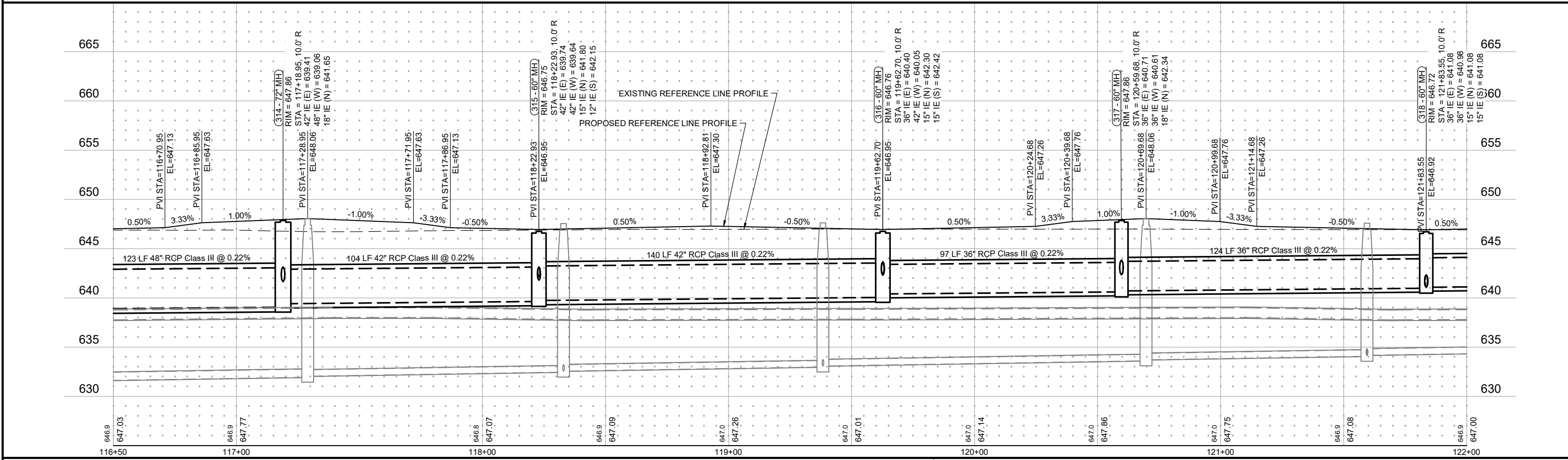


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

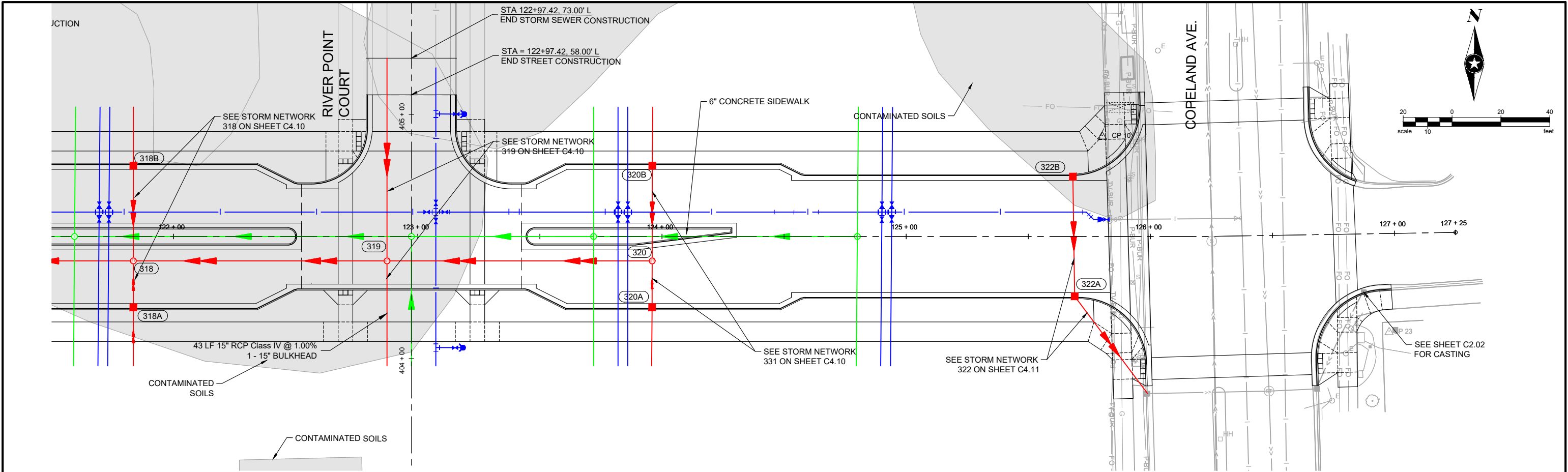
STORM SEWER AND STREET
PLAN & PROFILE
RIVER BEND ROAD



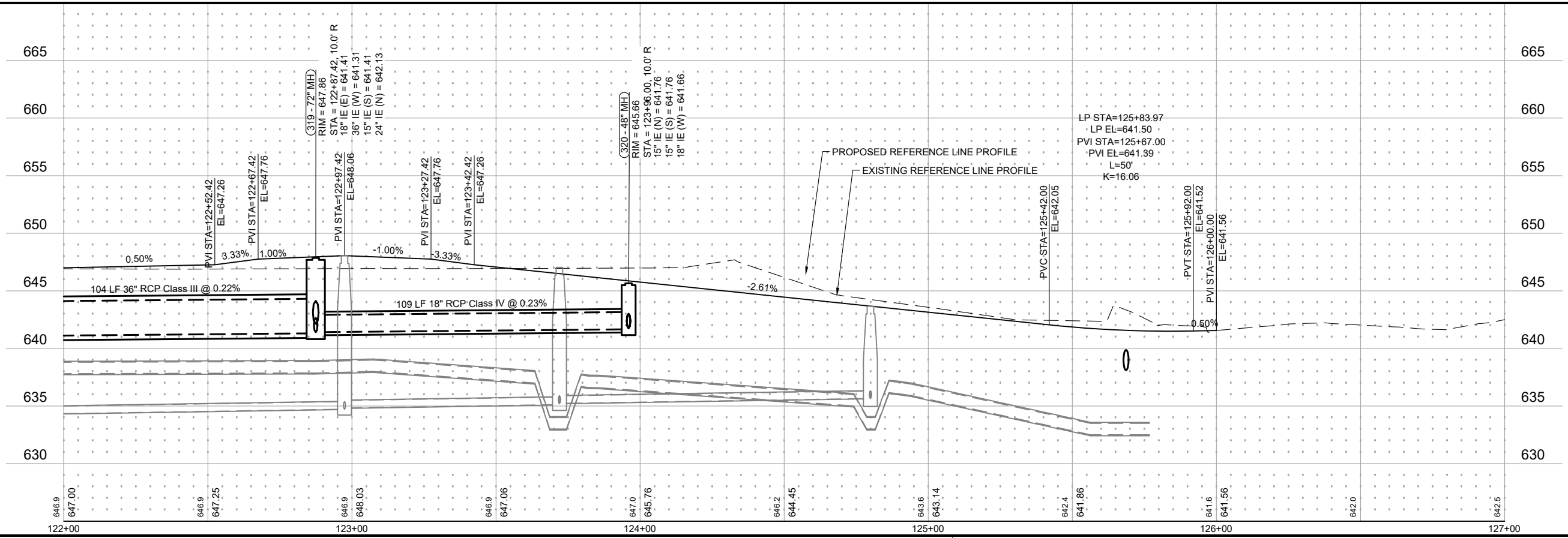
RIVER BEND ROAD



Rev.#	Date	Revision Issue Description
1	03.17.2022	RELEASED FOR PERMITTING
2	06.03.2022	RELEASED FOR BIDDING
3	07.29.2022	RELEASED FOR REBID
4	09.30.2022	REVISED FOR CONSTRUCTION



RIVER BEND ROAD



Save: 9/29/2022 8:02 AM Ikelihut Plot: 10/4/2022 1:30 PM X:\KOLL\ACRS\163627\5-final\csgn\5-1-drawings\10-Civil\cadd\dwg\sheet\ACRS163627_PP_Street_A.storm.dwg

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

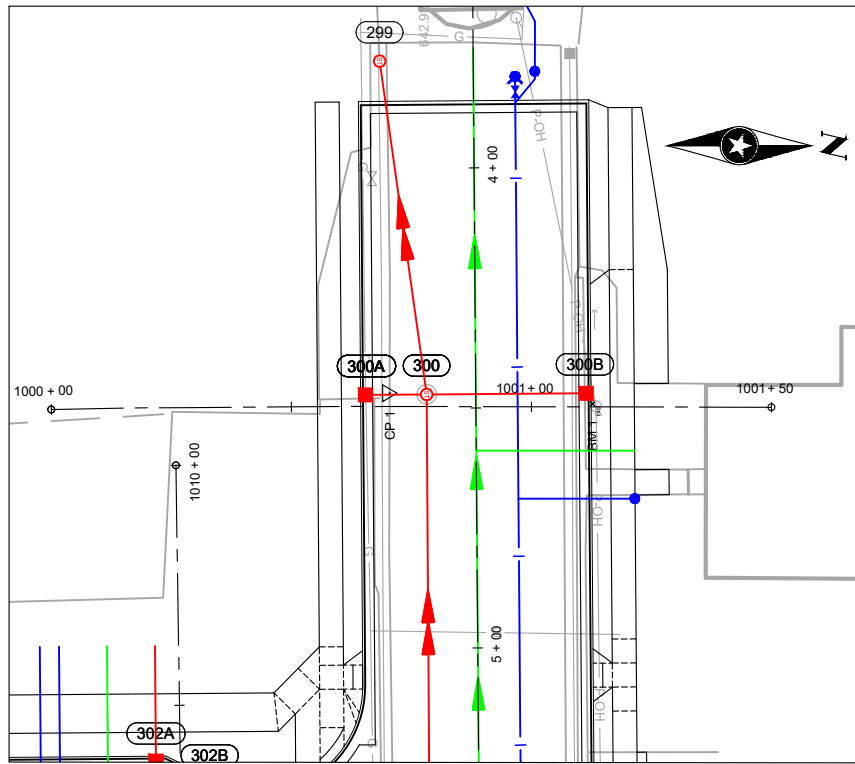
Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022



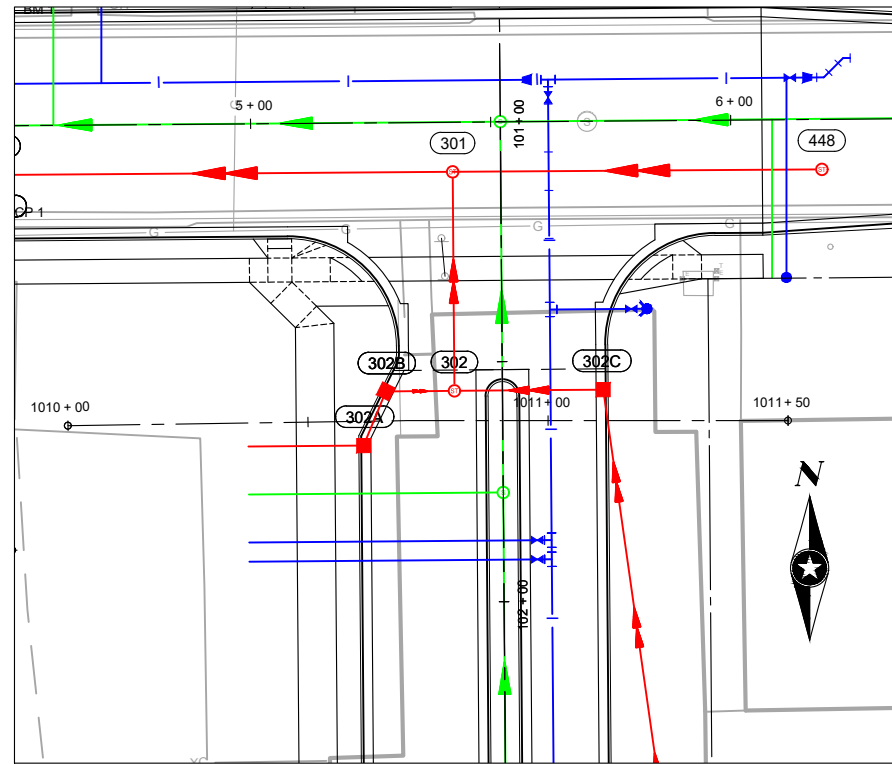
RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

**STORM SEWER AND STREET
PLAN & PROFILE
RIVER BEND ROAD**

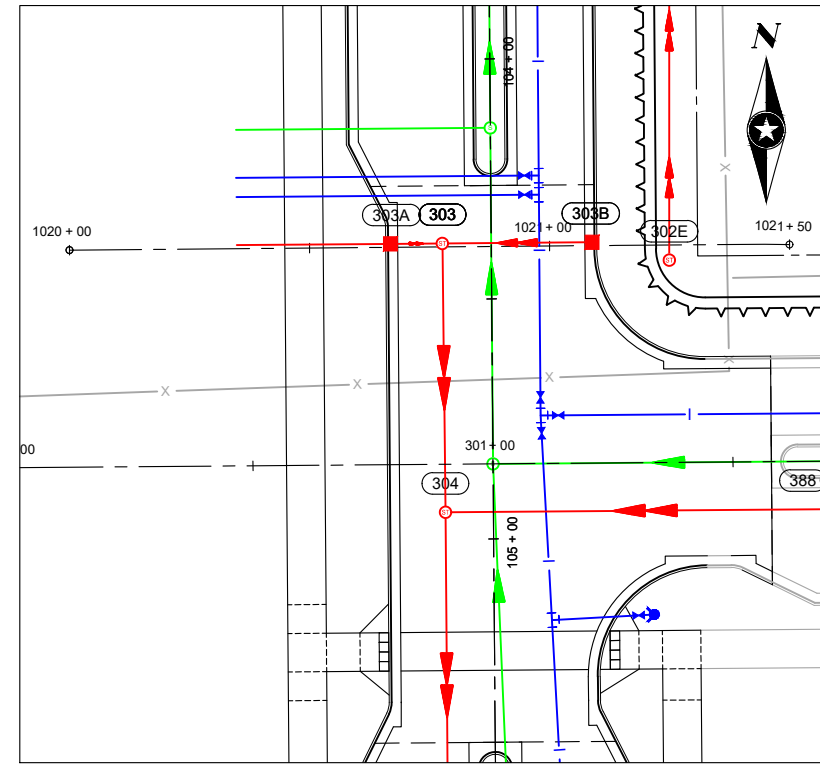
C4.06



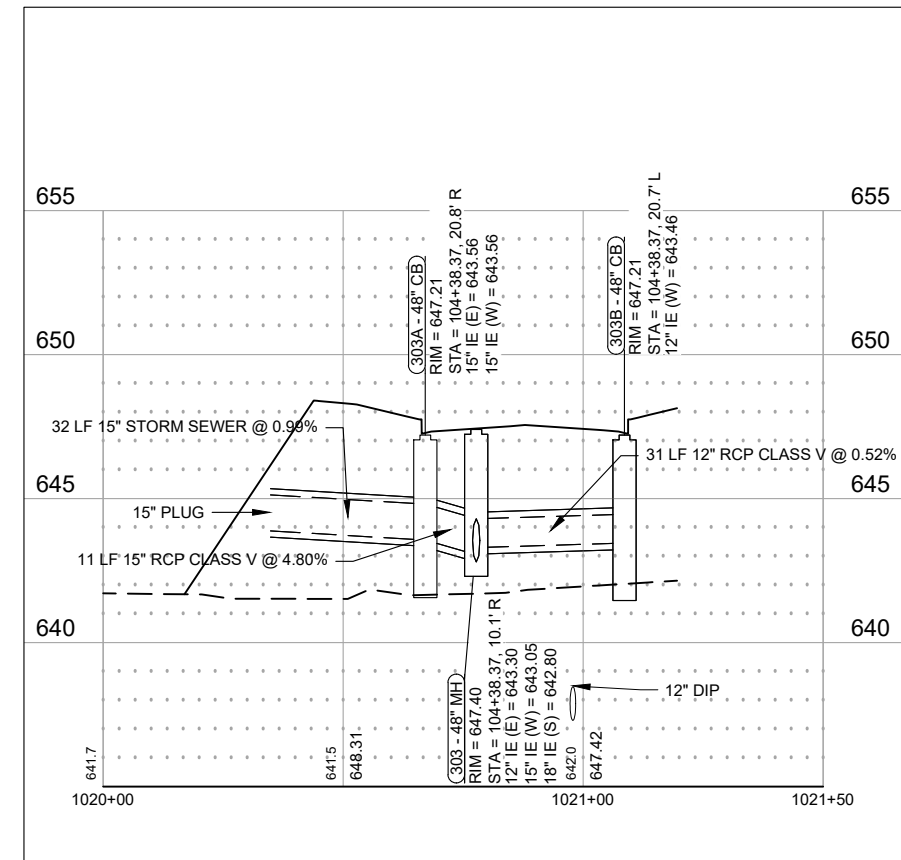
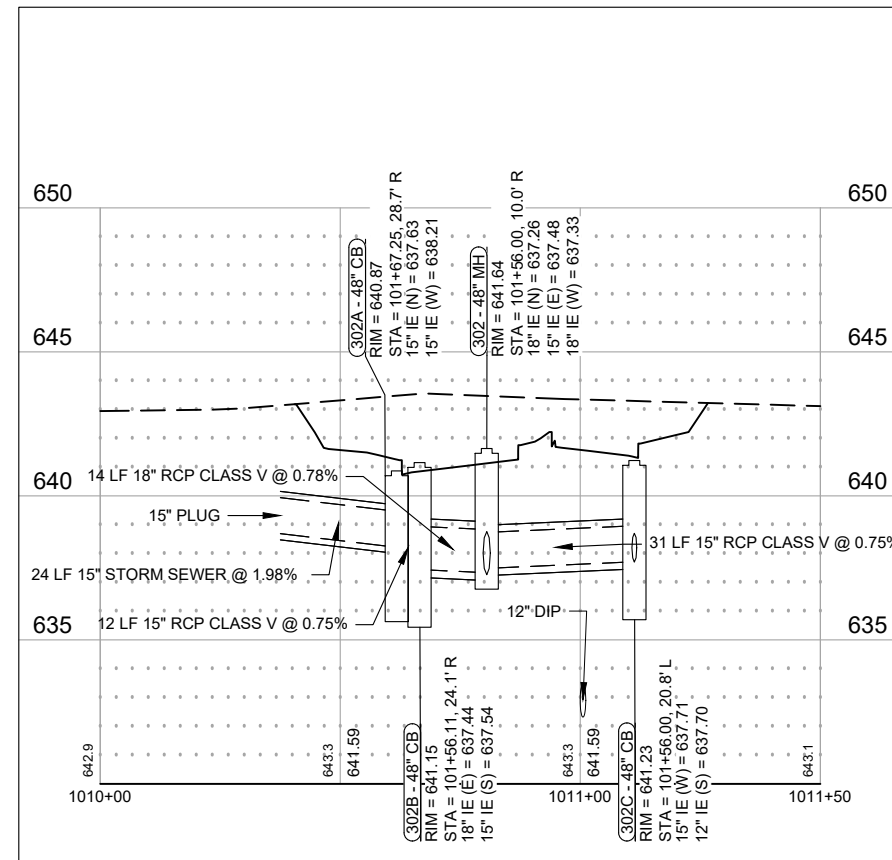
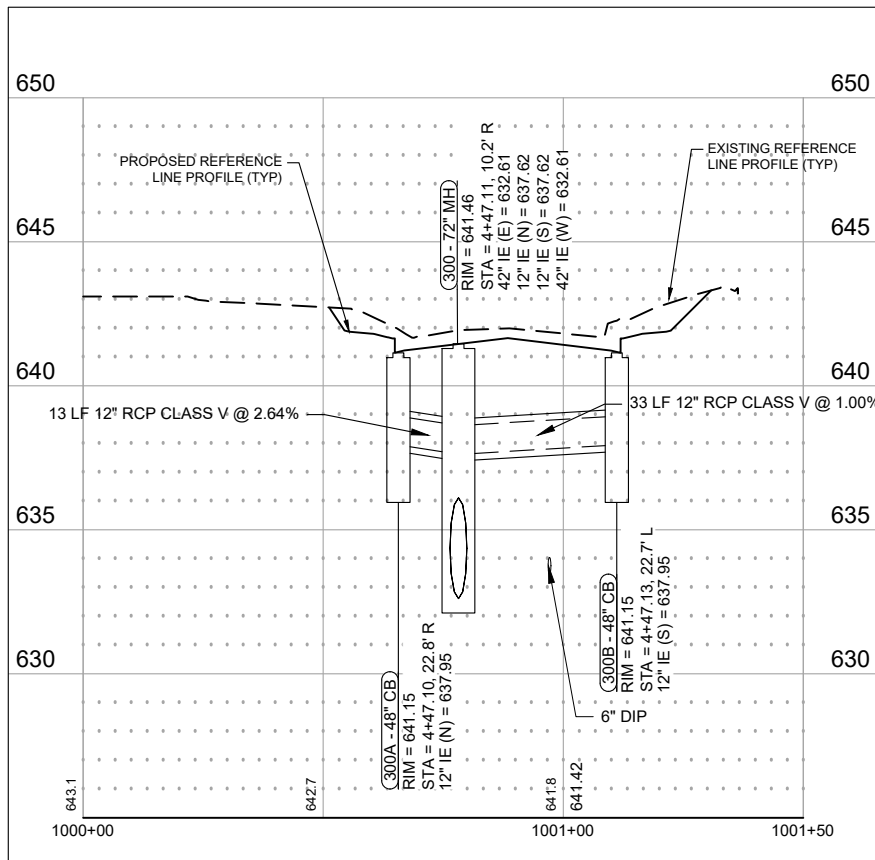
STORM NETWORK 300



STORM NETWORK 302



STORM NETWORK 303



Save: 9/29/2022 8:01 AM Iketehut.Plot: 9/30/2022 7:50 AM X:\KOLL\LACRS\1636275-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet\LACRS163627PP_STORM_XINGS.dwg

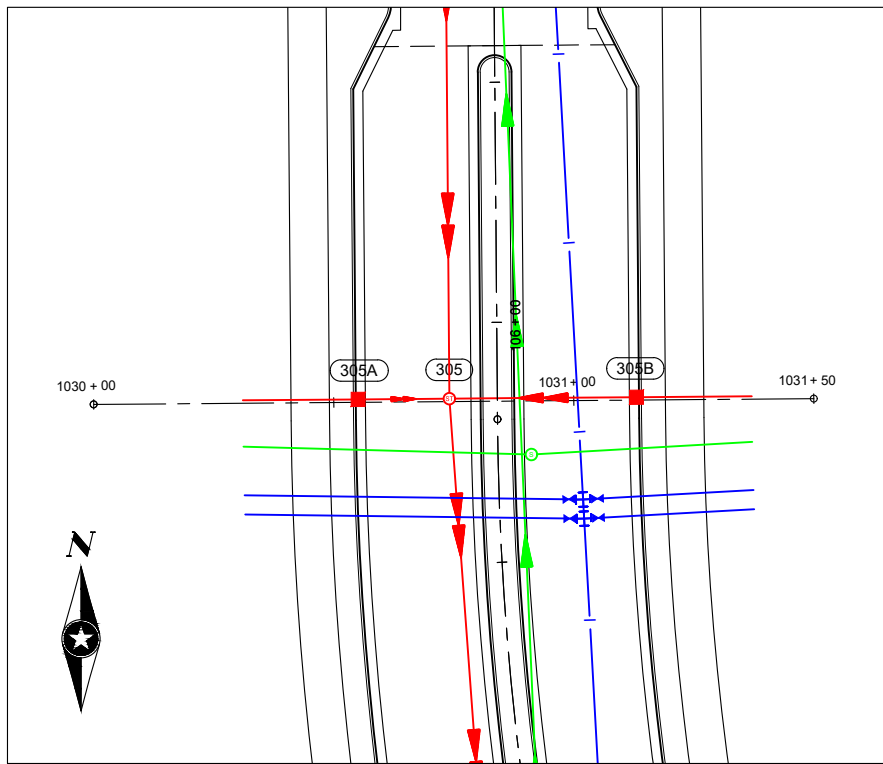
SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

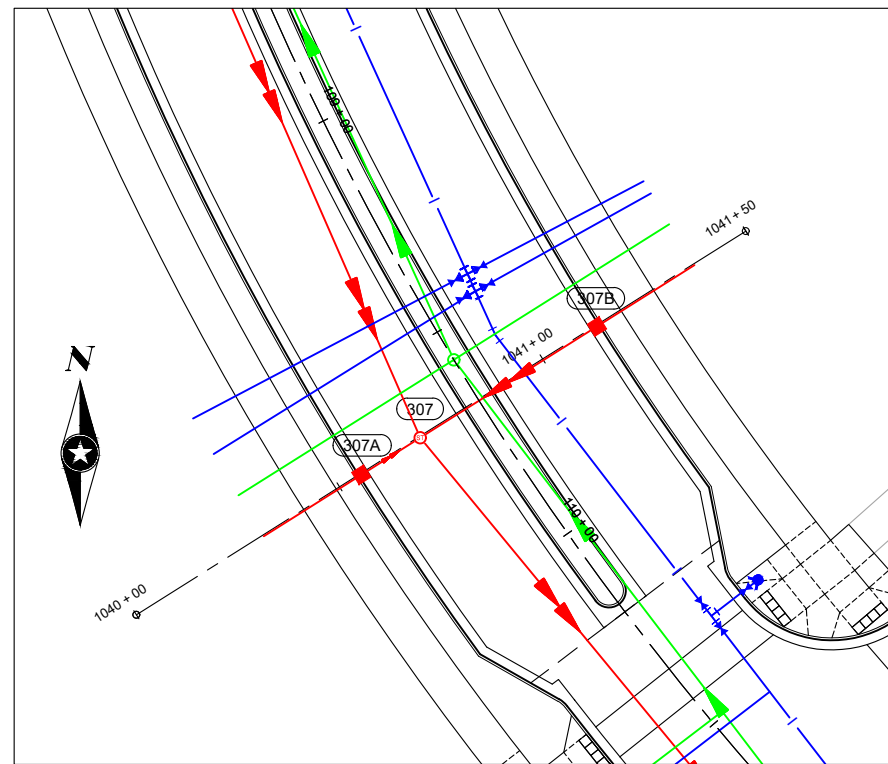


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

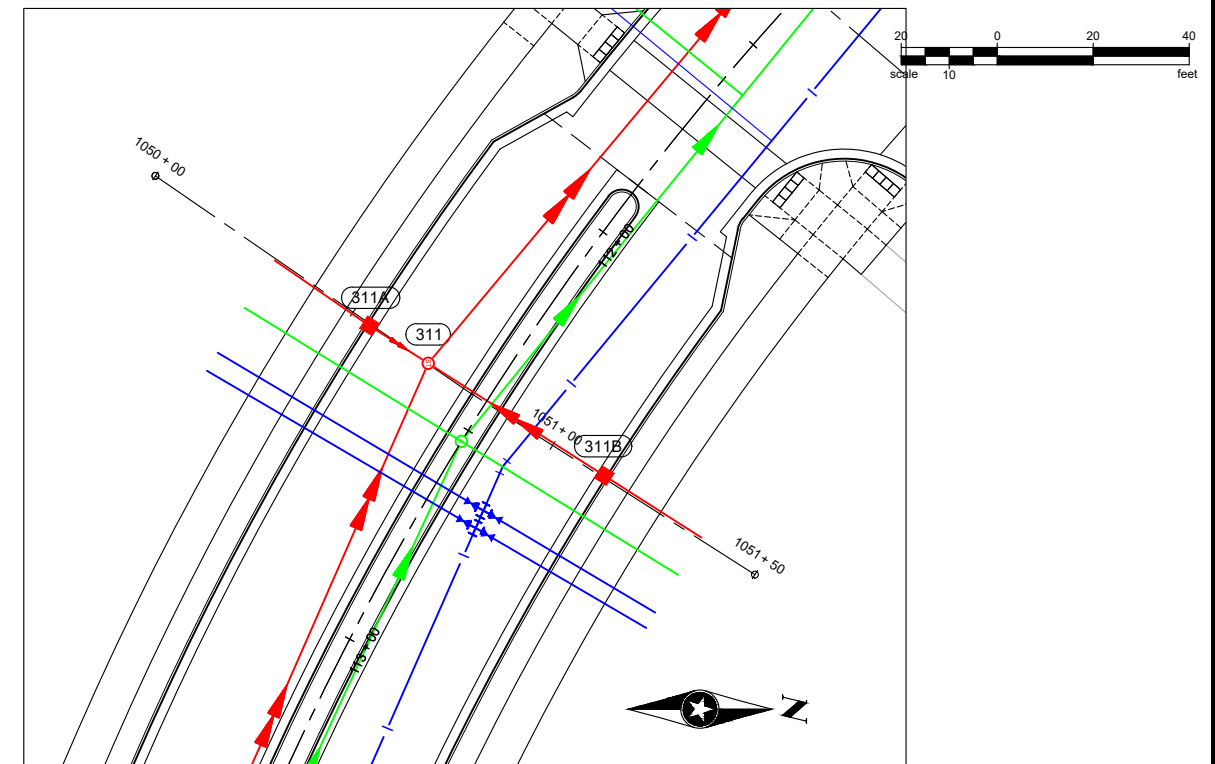
STORM SEWER CROSSING
PLAN & PROFILE
RIVER BEND ROAD



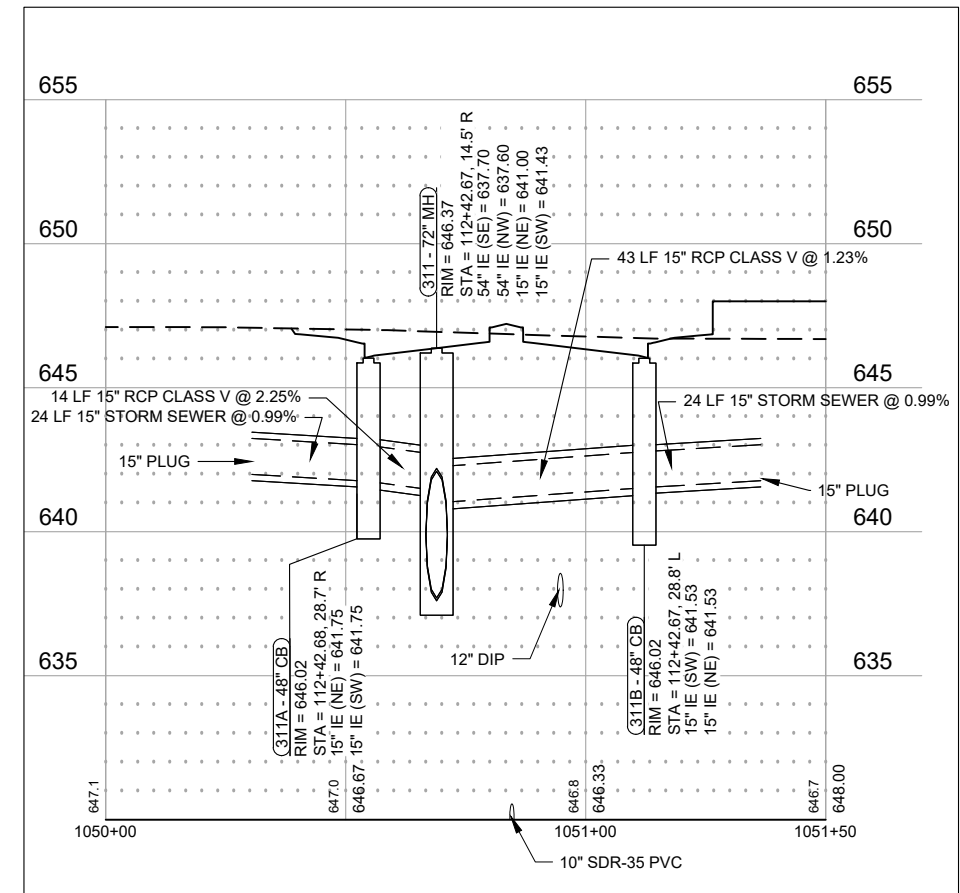
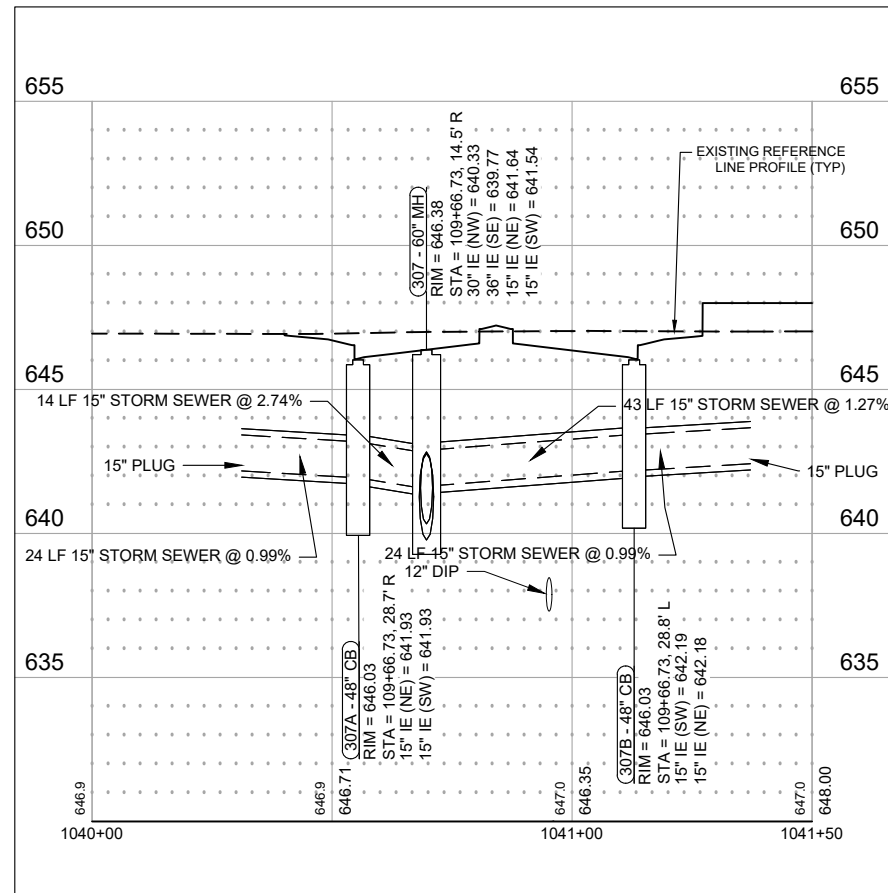
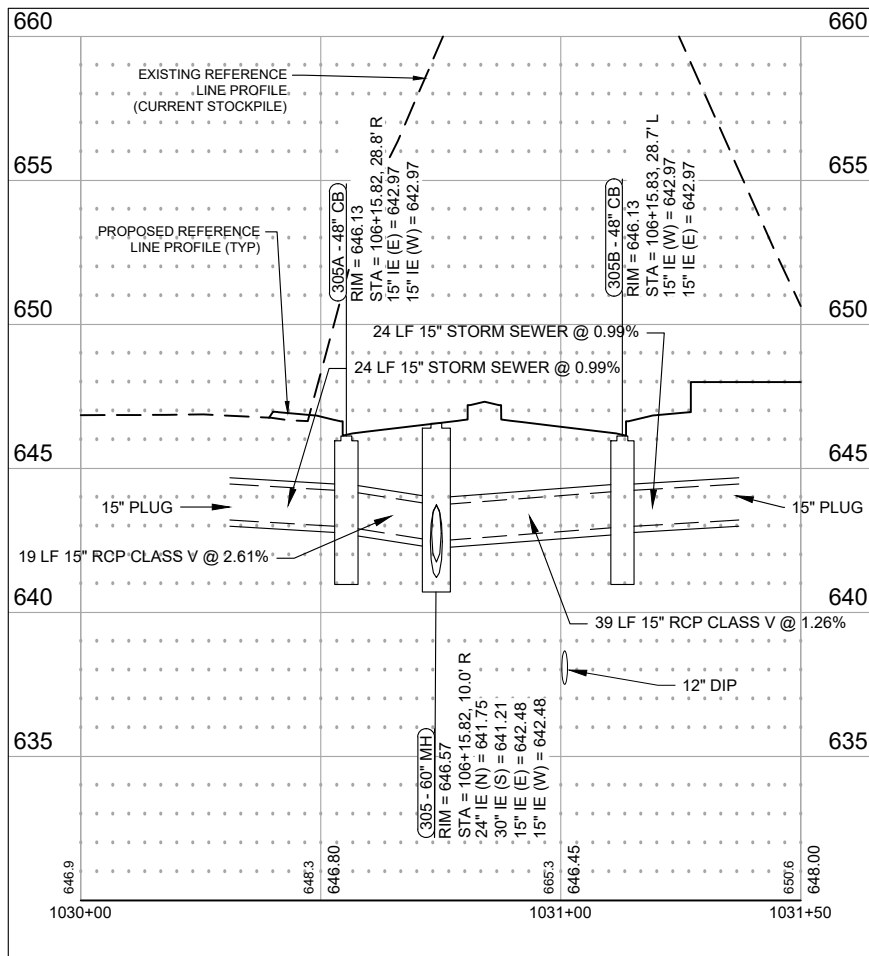
STORM NETWORK 305



STORM NETWORK 307



STORM NETWORK 311



Save: 9/29/2022 8:01 AM Iktehul.Plot: 9/30/2022 7:50 AM X:\KOLL\ACRS\1636275-final\design\1-drawings\10-Civil\cad\dwg\sheet\LACRS163627PP_STORM_XINGS.dwg

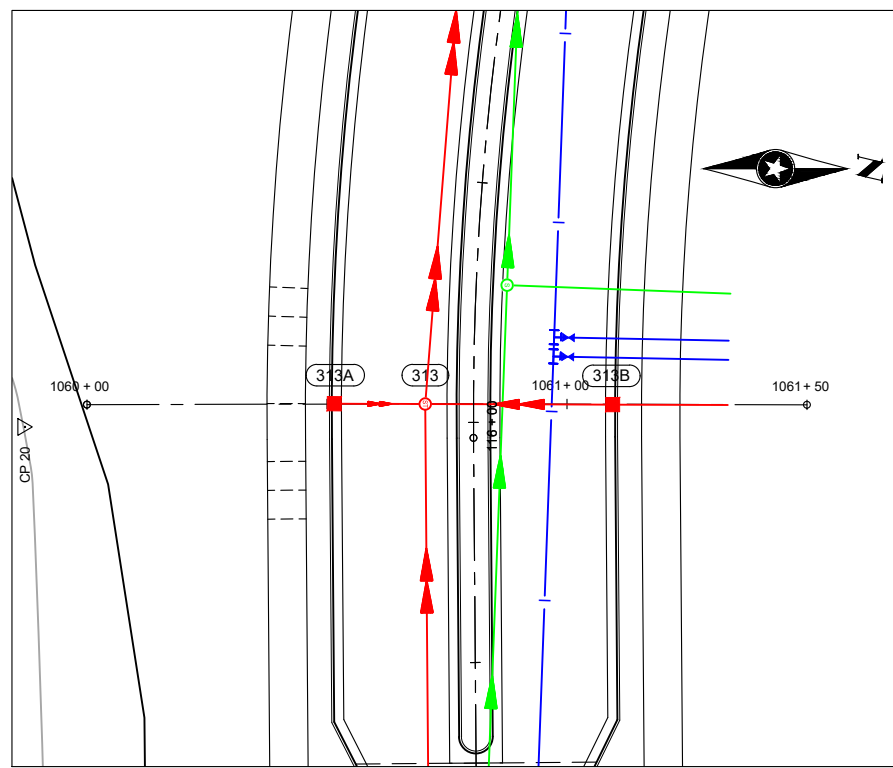
SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

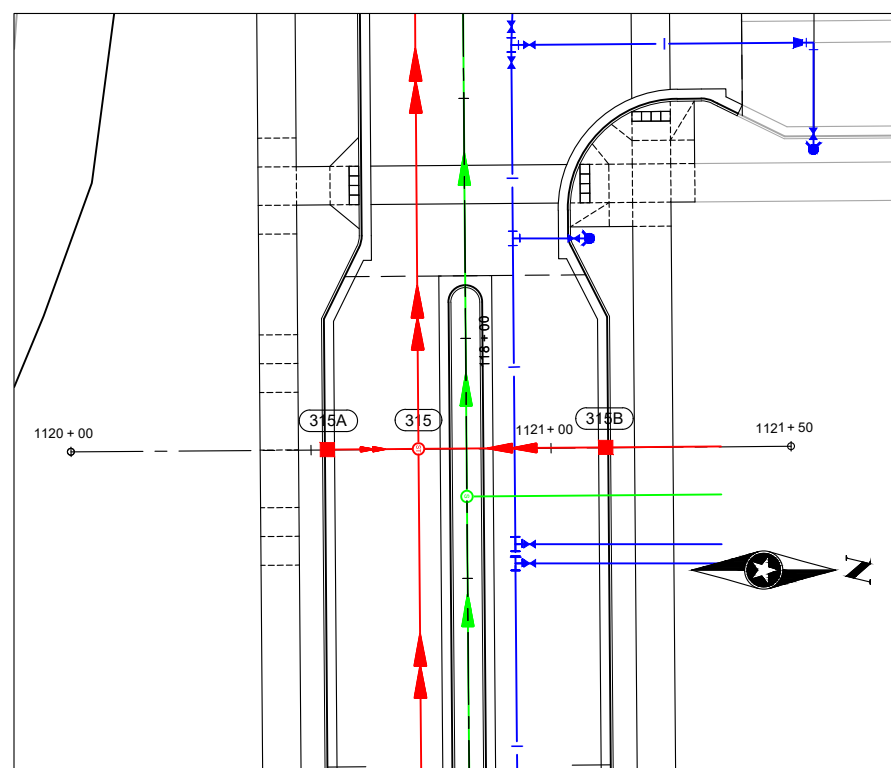


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

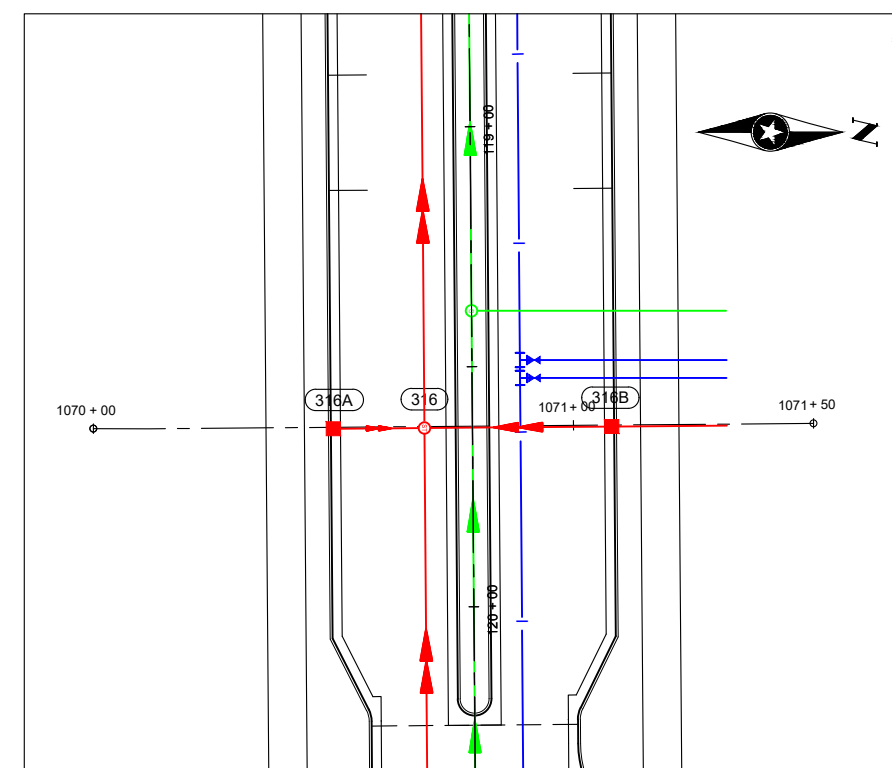
STORM SEWER CROSSING
PLAN & PROFILE
RIVER BEND ROAD



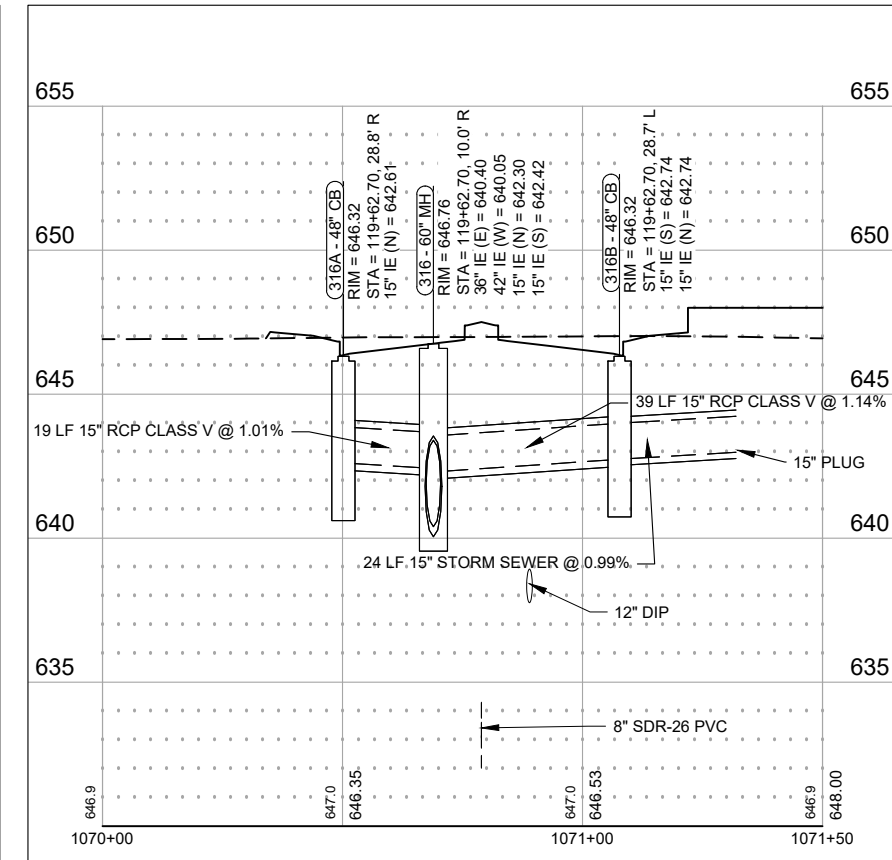
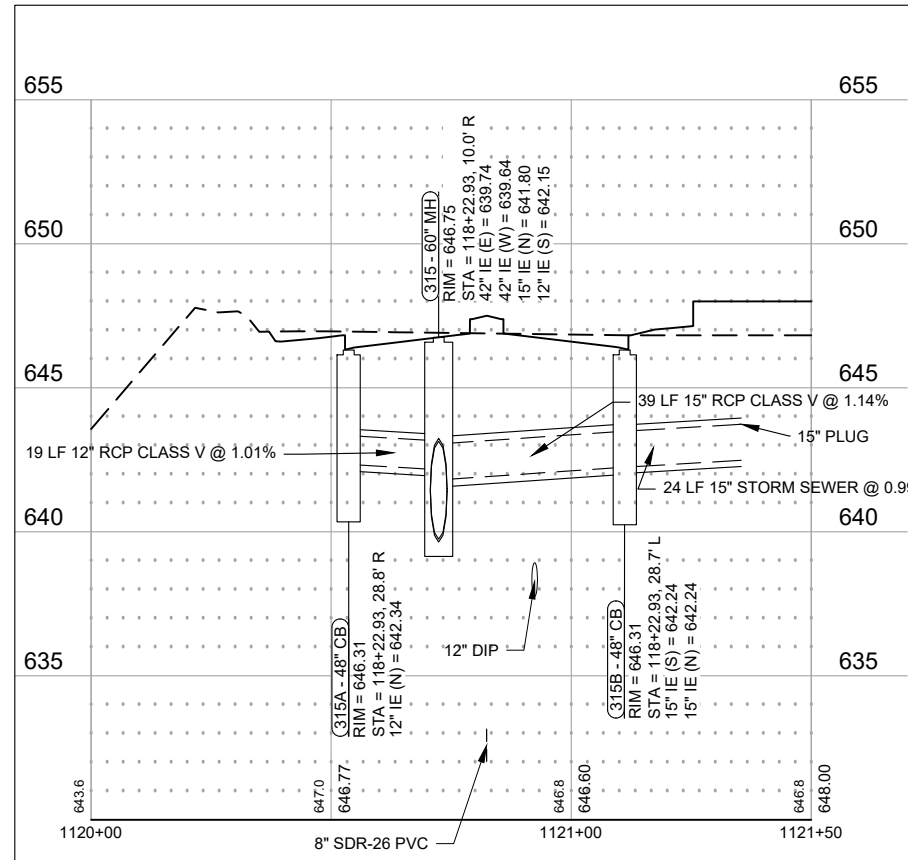
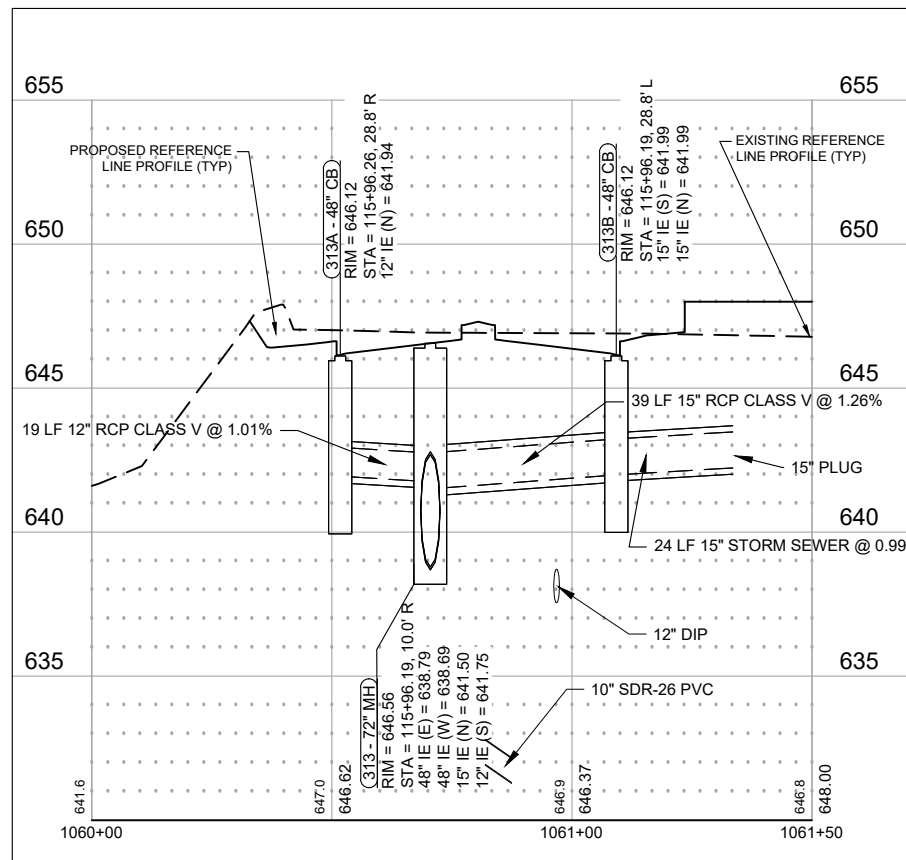
STORM NETWORK 313



STORM NETWORK 315



STORM NETWORK 316



Save: 9/29/2022 8:01 AM Ikelihui.Plot: 9/30/2022 7:50 AM X:\KOLL\LACRS\1636275-final\dwg\51-drawings\10-Civil\cad\dwg\sheet\LACRS1636275_PP_STORM_XINGS.dwg

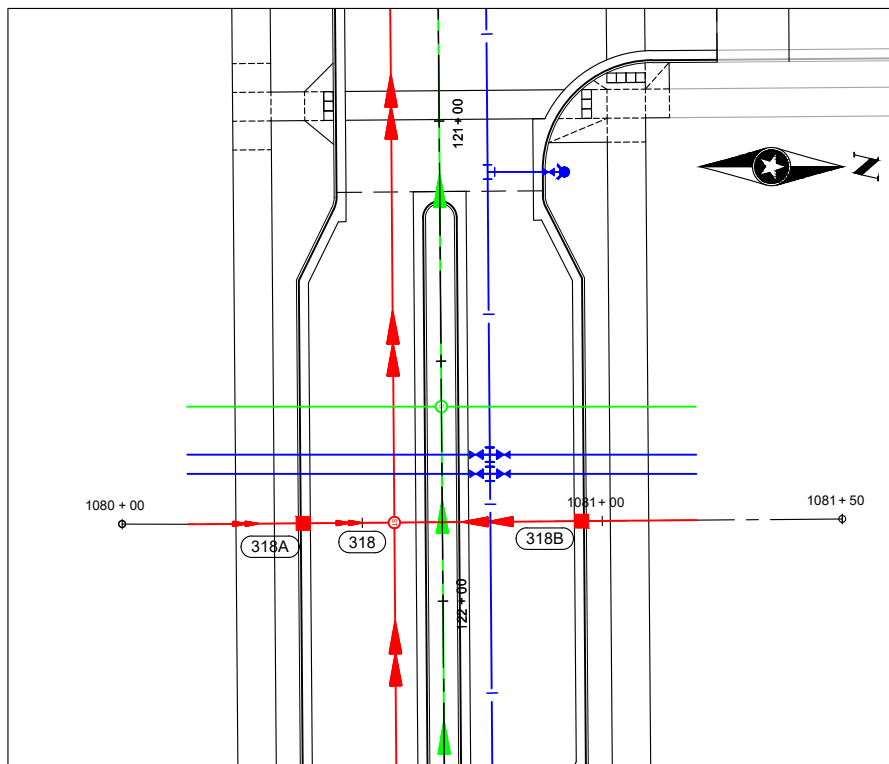
SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

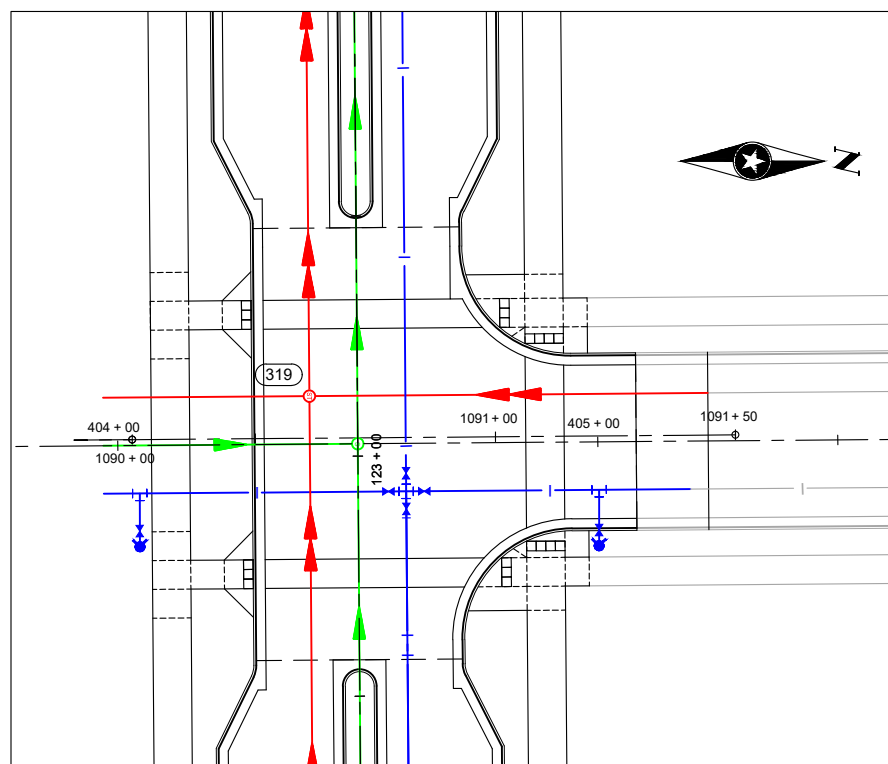


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

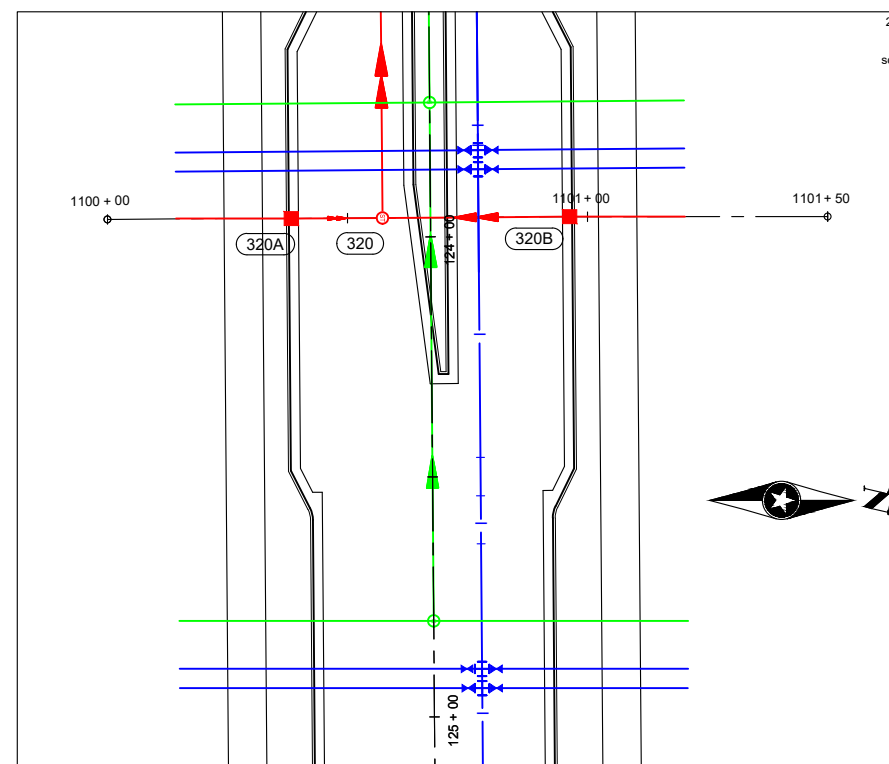
STORM SEWER CROSSING
PLAN & PROFILE
RIVER BEND ROAD
C4.09



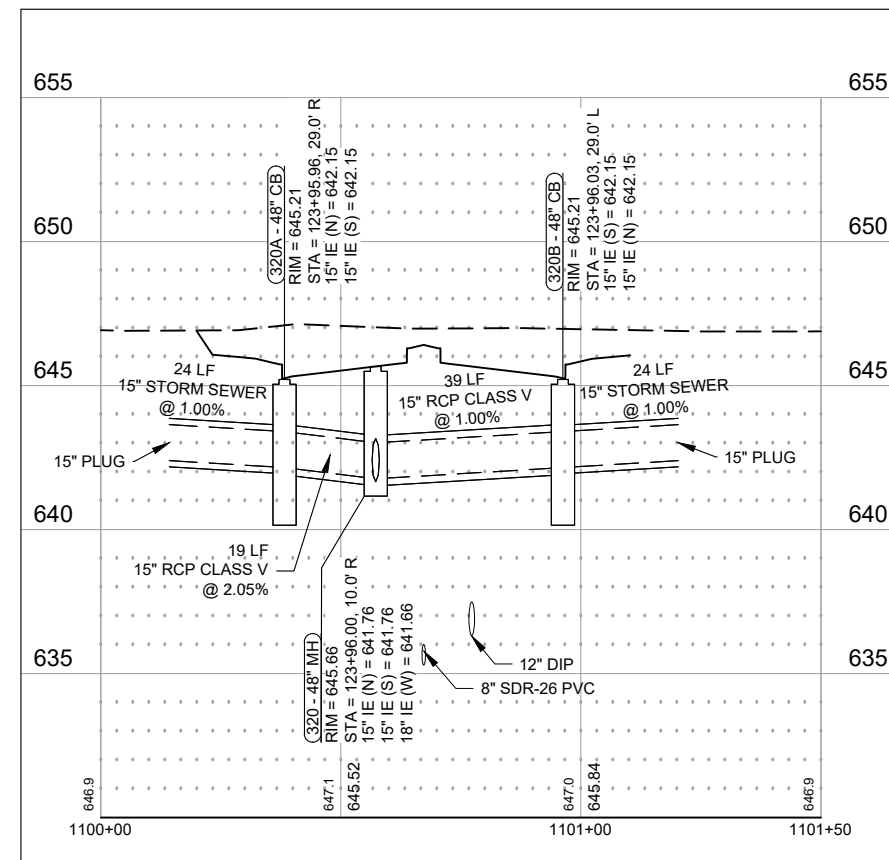
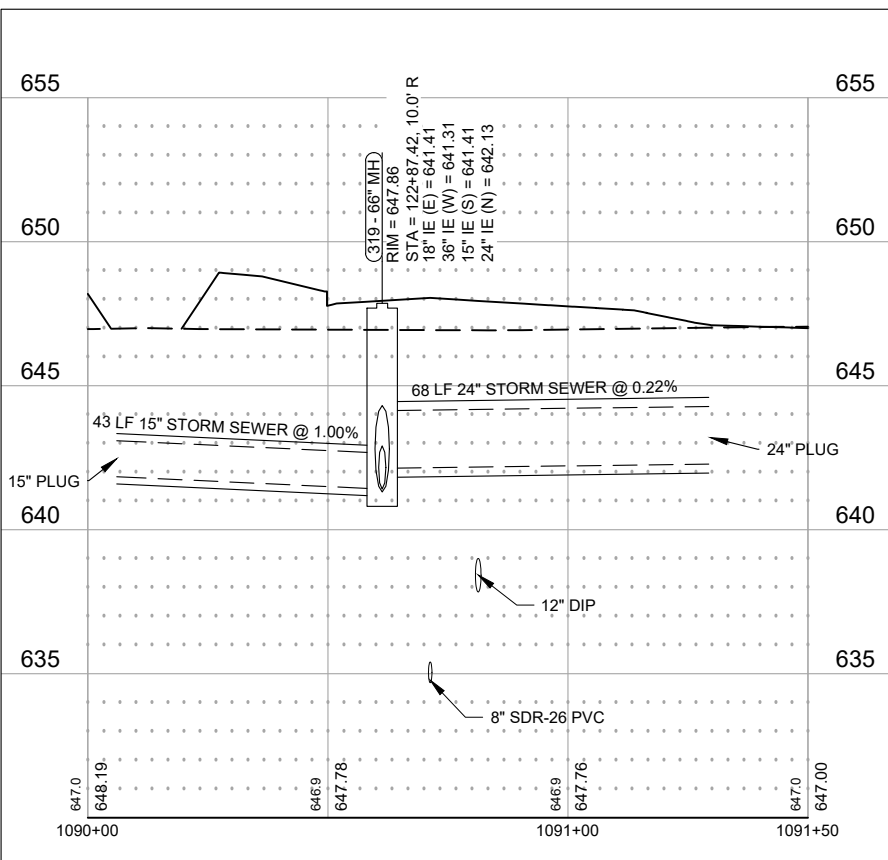
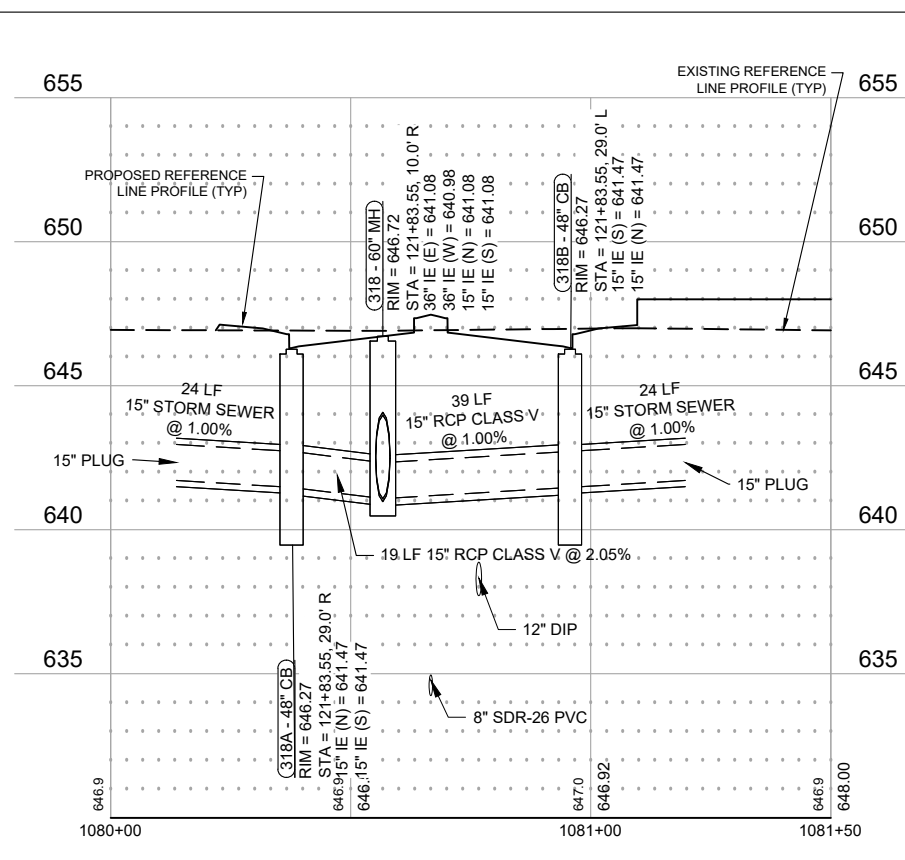
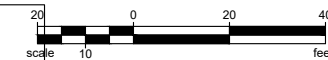
STORM NETWORK 318



STORM NETWORK 319



STORM NETWORK 320



Save: 9/30/2022 1:03 PM craleigh Plot: 9/30/2022 2:30 PM X:\KOLL\ACRS\163627\5-final-dgn\51-drawings\10-Civil\dwg\sheet\LACRS163627\PP_STORM_XINGS.dwg

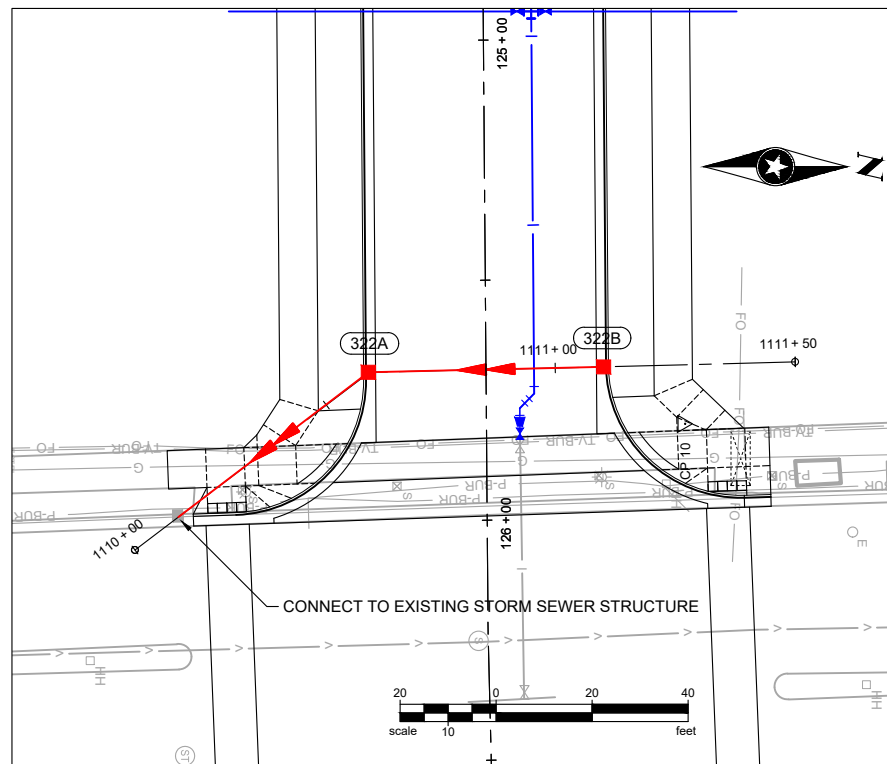
SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

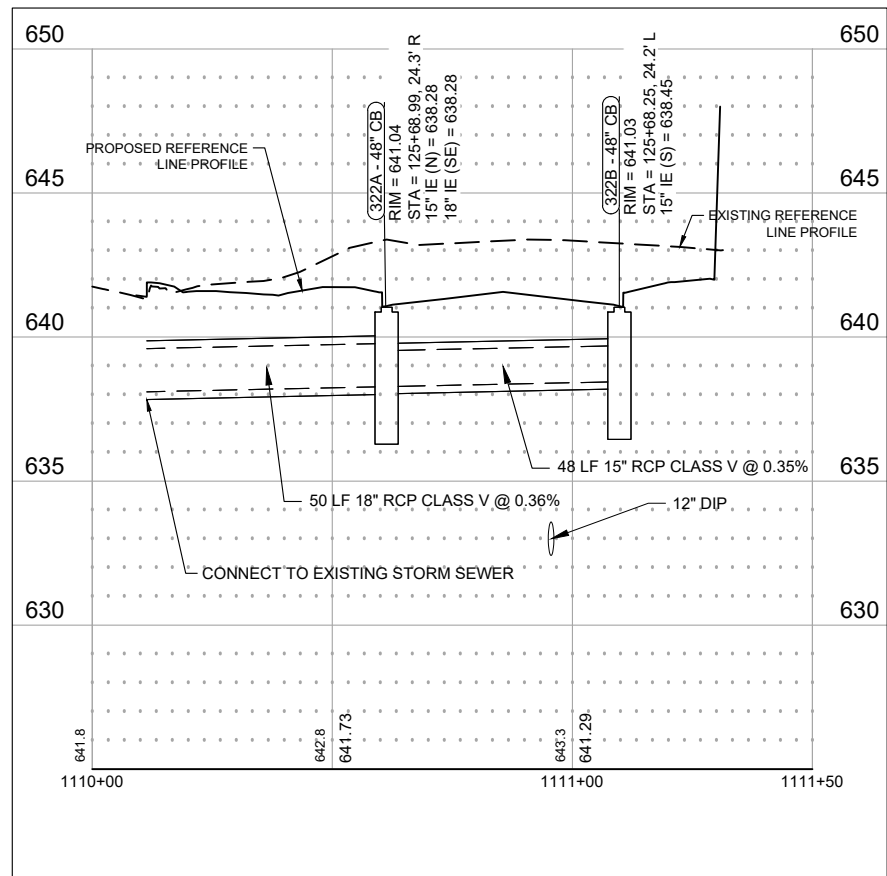


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

STORM SEWER CROSSING
PLAN & PROFILE
RIVER BEND ROAD



STORM NETWORK 322



Save: 9/29/2022 8:01 AM I:\kellihut.Plot: 9/30/2022 7:51 AM X:\KOLL\LACRS\163627\5-final-dwg\10-Civil\cad\dwg\sheet\LACRS163627PP_STORM_XINGS.dwg

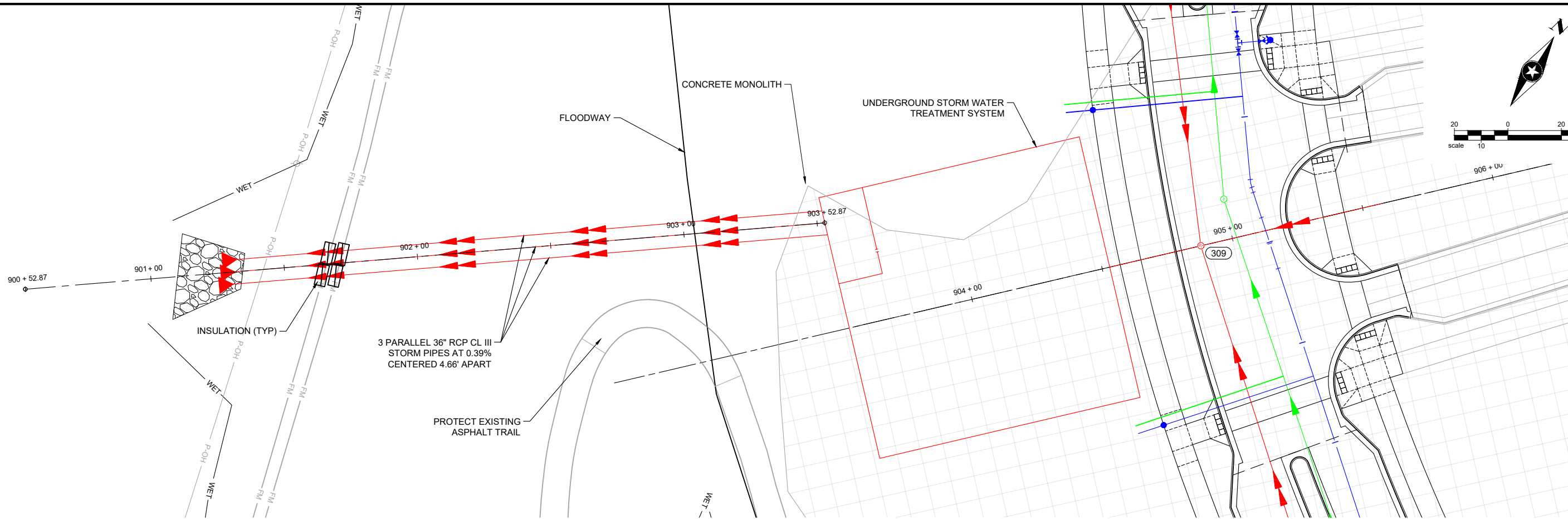
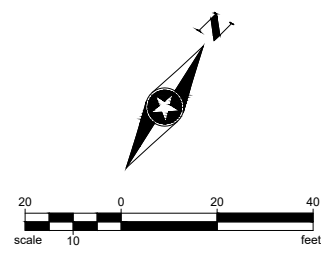
SEH Project	LACRS163627	Rev.#	Revision Issue Description	Date
Drawn By	SFA	1	RELEASED FOR PERMITTING	03.17.2022
Designed By	CMR	2	RELEASED FOR BIDDING	06.03.2022
Checked By	DAS	3	RELEASED FOR REBID	07.29.2022
		4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

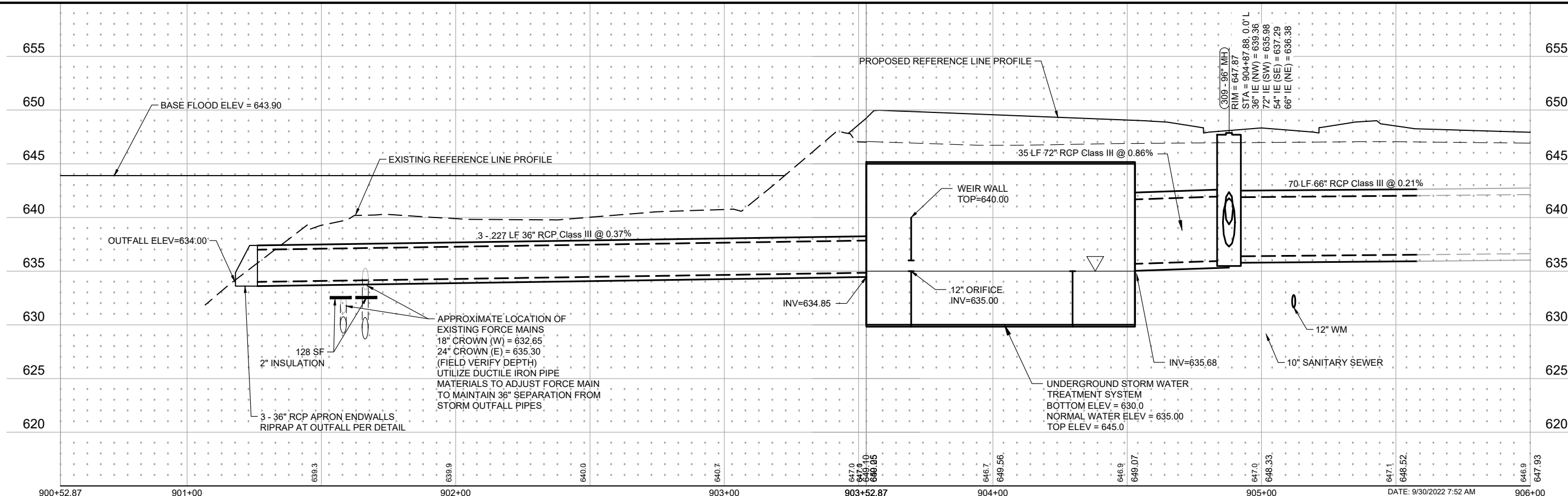


RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

STORM SEWER CROSSING
PLAN & PROFILE
RIVER BEND ROAD



DEVELOPMENT STORMWATER OUTFALL



Save: 9/29/2022 7:54 AM c:\raleigh\Plot: 9/30/2022 7:52 AM X:\KOLLA\CRS1163627\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet\LACRS1163627PP_Storm.dwg

Rev.#	Revision Issue Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022
4	REVISED FOR CONSTRUCTION	09.30.2022

Rev.#	Revision Issue Description	Date
.	.	.



RIVER POINT DISTRICT
LA CROSSE, WISCONSIN

PLAN & PROFILE
STORM SEWER ALIGNMENT

C5.01

ABBREVIATIONS

& L @ € ø (#) # +/- SQ	AND ANGLE AT CENTERLINE DIAMETERROUND EXISTING POUNDNUMBER PLUS OR MINUS SQUARE	E EAST EACH FACE EXPANSION JOINT ELEVATION ELEC ELEV ENCL EQ EQPT EW EXP EXIST EXTN	EA EACH EACH FACE EXPANSION JOINT ELEVATION ELEV ENCL EQ EQPT EW EXP EXIST EXTN	K KIPS KG KM KO KW	KIPS KILOGRAM KILOMETER KNOCK-OUT KILOWATT	S SCHED SECT SER SF SHT SIM SL SLNT SLH SLV SM SOG SP SPEC SQ SS STD STL STRUC SUSP SYM	SOUTH SCHEDULE SECTION STRUCTURAL ENGINEER OF RECORD SQUARE FOOT SHEET SIMILAR SLOPE SEALANT SHORT LEG HORIZONTAL SHORT LEG VERTICAL SQUARE METER SLAB ON GRADE SPACED SPECIFICATIONS SQUARE STAINLESS STEEL STANDARD STEEL STRUCTURE/STRUCTURAL SUSPEND/SUSPENDED SYMMETRICAL	
AB ADD ADH ADJ ADJA AGGR ALUM ALT ANCH ANG ANOD APPROX ARCH ASPH	ANCHOR BOLT ADDENDUM ADDITIONAL ADHESIVE ADJUSTABLE ADJACENT AGGREGATE ALUMINUM ALTER OR ALTERNATE ANCHOR ANGLE ANODIZED APPROXIMATE ARCHITECTURAL ASPHALT (PAVING)	FD FLOOR DRAIN FFE FINISHED FLOOR ELEVATION FH FLAT HEAD FLR FLOOR FND FOUNDATION FR FRAME FRP FIBERGLASS REINFORCED FS FOOTING STEP FT FOOT/FEET FTG FOOTING FV FIELD VERIFY	FD FLOOR DRAIN FFE FINISHED FLOOR ELEVATION FH FLAT HEAD FLR FLOOR FND FOUNDATION FR FRAME FRP FIBERGLASS REINFORCED FS FOOTING STEP FT FOOT/FEET FTG FOOTING FV FIELD VERIFY	MAS MASONRY MATL MATERIAL MAX MAXIMUM MECH MECHANICAL MEMB MEMBRANE MFR MANUFACTURER MFG MANUFACTURING MH MANHOLE MIN MINIMUM MISC MISCELLANEOUS MM MILLIMETER MTL METAL	MASONRY MATERIAL MAXIMUM MECHANICAL MEMBRANE MANUFACTURER MANUFACTURING MANHOLE MINIMUM MISCELLANEOUS MILLIMETER METAL	T TREAD T&B TOP AND BOTTOM TBE TOP OF BEAM ELEVATION TD TRENCH DRAIN TFE TOP OF FOOTING ELEVATION THK THICK/THICKNESS THR THRESHOLD THRD THREADED TOS TOP OF STEEL TRANS TRANSVERSE TSE TOP OF SLAB ELEVATION TWE TOP OF WALL ELEVATION TYP TYPICAL	TREAD TOP AND BOTTOM TOP OF BEAM ELEVATION TRENCH DRAIN TOP OF FOOTING ELEVATION THICK/THICKNESS THRESHOLD THREADED TOP OF STEEL TRANSVERSE TOP OF SLAB ELEVATION TOP OF WALL ELEVATION TYPICAL	
BITUM BLDG BLK BM BOT BRG BRKT BTWN C CANT CIP CJ CLR CM CMU COL COMP CONC COND CONN CONSTR CONT CONTR COORD CORR CRM CTR	BITUMINOUS BUILDING BLOCK BEAM BOTTOM BEARING BRACKET BETWEEN CHANNEL CANTILEVER CAST-IN-PLACE CONTROL JOINT CLEAR CENTIMETER CONCRETE MASONRY UNIT COLUMN COMPOSITE CONCRETE CONDITION CONNECTION CONTINUOUS CONTRACTOR COORDINATE CORRIDOR CONCRETE RUBBLE MASONRY CENTER	GA GAUGE GALLON GALV GALVANIZED GC GENERAL CONTRACTOR GB GRADE BEAM GEN GENERATOR GP GUSSET PLATE GR GRADE	GA GAUGE GALLON GALV GALVANIZED GC GENERAL CONTRACTOR GB GRADE BEAM GEN GENERATOR GP GUSSET PLATE GR GRADE	OA OVERALL OC ON CENTER OD OUTSIDE DIAMETER (DIMENSION) OPNG OPENING OPP OPPOSITE OVHD OVERHEAD	OVERALL ON CENTER OUTSIDE DIAMETER (DIMENSION) OPENING OPPOSITE OVERHEAD	W WEST/WIDTHWIDE W WIDE FLANGE (STEEL) WF WIDE FLANGE (ALUMINUM) W/ WITH W/O WITHOUT W/P WATERPROOF WPM WATERPROOF MEMBRANE WS WATER STOP WR WATER RESISTANT WT WEIGHT WWF WELDED WIRE FABRIC	UNLESS NOTED OTHERWISE VARIES VERTICAL EACH FACE VERTICAL VERTICAL INSIDE FACE OR VERIFY IN FIELD VENEER LINTEL VENEER LEDGE ELEVATION VENEER LEDGE STEP VERTICAL OUTSIDE FACE VOLUME	UNLESS NOTED OTHERWISE VARIES VERTICAL EACH FACE VERTICAL VERTICAL INSIDE FACE OR VERIFY IN FIELD VENEER LINTEL VENEER LEDGE ELEVATION VENEER LEDGE STEP VERTICAL OUTSIDE FACE VOLUME
d DBL DET DIA DIAG DIM DL DN DO DR DWL DWG DWR	PENNY (NAILS) DEEP/DEPTH DOUBLE DETAIL DIAMETER DIAGONAL DIMENSION DEAD LOAD DOWN DOOR OPENING DOOR DOWEL DRAWING DRAWER	H HEIGHT/HIGH HC HOLLOW CORE HD HEAD HEF HORIZONTAL EACH FACE HIF HORIZONTAL INSIDE FACE HOF HORIZONTAL OUTSIDE FACE HR HORIZ HOUR HS HEADED STUD HSS HOLLOW STRUCTURAL SHAPE	H HEIGHT/HIGH HC HOLLOW CORE HD HEAD HEF HORIZONTAL EACH FACE HIF HORIZONTAL INSIDE FACE HOF HORIZONTAL OUTSIDE FACE HR HORIZ HOUR HS HEADED STUD HSS HOLLOW STRUCTURAL SHAPE	PC PRECAST PCF POUNDS PER CUBIC FOOT PERIM PERIMETER PERP PERPENDICULAR PL PLATE PLYWD PLYWOOD PNL PANEL PREFAB PREFABRICATED PSI POUNDS PER SQUARE INCH PSF POUNDS PER SQUARE FOOT	PRECAST POUNDS PER CUBIC FOOT PERIMETER PERPENDICULAR PLATE PLYWOOD PANEL PREFABRICATED POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT	QT QUARRY TILE	QUARRY TILE	
INFO INSUL INT INV JBE JGBE JST JT	INFORMATION INSULATION INTERIOR INVERT JOIST BEARING ELEVATION JOIST GIRDER BEARING ELEVATION JOIST JOINT	INSUL INSULATION INT INTERIOR INV INVERT	INSUL INSULATION INT INTERIOR INV INVERT	REF RADIUS REF REFERENCE/REFER REINF REINFORCED/REINFORCING REQ REQUIRED REV REVISED/REVISION RH ROUND HEAD RLG RAILING RM ROOM RO ROUGH OPENING RTU ROOF TOP UNIT	REFERENCE/REFER REINFORCED/REINFORCING REQUIRED REVISED/REVISION ROUND HEAD RAILING ROOM ROUGH OPENING ROOF TOP UNIT			

MATERIAL SYMBOLS

	GRAVEL
	SOIL
	BASE COURSE, SUB-BASE, GRAVEL, CRUSHED ROCK
	CONCRETE
	BRICK MASONRY
	CUT STONE, SAND, MORTAR, PLASTER
	CONCRETE MASONRY UNITS
	STEEL
	ALUMINUM (OMIT IN THIN MATERIAL)
	INSULATION BOARD
	RIGID INSULATION
	WOOD FRAMING THROUGH MEMBER
	WOOD FRAMING INTERRUPTED MEMBER
	PLYWOOD
	GYPSUM BOARD
	PARTICLE BOARD

ANNOTATION SYMBOLS

	BEAM CONTINUOUS OVER COLUMN
	BEAM SPLICE
	LEVEL / ELEVATION REFERENCE
	GRID REFERENCE
	SPAN DIRECTION
	REVISION CLOUD & TAG
	WOOD WALL SHEARWALL WITH HOLD-DOWN LOCATIONS
	MASONRY SHEARWALL DESIGNATION
	PLAN KEYNOTE
	KEYNOTE TAG
	EXISTING CONSTRUCTION TO BE DEMOLISHED
	EXISTING CONSTRUCTION TO REMAIN
	NEW CONCRETE CONSTRUCTION
	CONCRETE MASONRY WALL
	ALL DIMENSIONS ARE TO FACE OF FOUNDATION UNLESS NOTED OTHERWISE
	LOCATION OF RE-ENTRANT CORNER BAR
	LOCATION OF CONTROL / CONTRACTION JOINT IN CONCRETE SURFACE
	UNFACTORED WIND SHEAR LOAD
	SNOW DRIFT - NOTATION DIAGRAM
	FOOTING TAG & TOP OF FOOTING ELEVATION
	COLUMN TAG
	PIER TAG

STRUCTURAL SHEET INDEX

S0.01	GENERAL
S0.02	GENERAL
S1.01	FOUNDATION
S1.11	TOP SLAB
S2.01	SECTIONS
S3.01	DETAILS
S3.02	DETAILS

CALLOUT SYMBOLS

	WALL SECTION NUMBER
	WALL SECTION SHEET
	DETAIL NUMBER
	DETAIL SHEET
	BUILDING SECTION NUMBER
	BUILDING SECTION SHEET
	DETAIL OR SECTION NUMBER
	DETAIL OR SECTION SHEET
	EXTERIOR ELEVATION NUMBER
	EXTERIOR ELEVATION SHEET
	INTERIOR ELEVATION NUMBER
	INTERIOR ELEVATION SHEET

X:\K\ILLACRS\163627\5-final-dgn\15-drawings\05-Rev\ILLACRS 163627_Lacrosse Structural Sheet_225.dwg

SEH Project LACRS 163627
 Drawn By PAM
 Designed By MLH/SMJ
 Checked By MLH

Rev. #	Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022

Rev. #	Description	Date



RIVER POINT DISTRICT
 UNDERGROUND RESERVOIR
 LA CROSSE, WISCONSIN

STORM TANK STRUCTURAL GENERAL

S0.01

GENERAL STRUCTURAL NOTES

- 1. These notes do not replace the specifications but are to be read in conjunction with them. Any discrepancies or conflicts between the two shall be brought to the attention of the Structural Engineer of Record (SER) for resolution. In these Notes and the Specifications, the word "shall" means "is to be done".
2. These drawings are for Lacrosse River Point District (SEH project number (LACRS-163627) and no other use is authorized. Contact SER, Mike Henstad at SEH 651-470-9287.

GOVERNING BUILDING CODE

2018 Wisconsin Commercial Building Code
2015 International Building Code as adopted and amended by the state building code

DESIGN CODES AND STANDARDS:

ACI Manual of Concrete Practice
ACI 318, 301 Building Code Requirements & Specifications for Structural Concrete
ACI 350 Environmental Engineering Concrete Structures

DESIGN LOADS PER ASCE 7-10

Risk category II

Table with 2 columns: Load type and Value. Includes Live load (50 PSF), Dead load (420 PSF), Snow loads, Rain load intensity, Wind loads, Seismic loads, Soil criteria, and Subgrade modulus.

DESIGN / CONSTRUCTION CRITERIA

- 1. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
2. All material, workmanship, and details shall be in accordance with typical concrete construction practices, current manufacturer's recommendations, and all applicable codes and government regulations.
3. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on process, architectural, mechanical, electrical or other drawings.
4. Equipment and structural anchor rod sizes, types, embedment, and patterns shall be verified with the manufacturer or fabricator.
5. The contractor shall supply all necessary temporary bracing, shoring, guying, or other means to avoid excessive stresses and to hold structural elements in place during construction.
6. Job site safety (including excavations) is the sole responsibility of the general contractor and their subcontractors.
7. The engineer is not responsible for construction means, methods, techniques or practices.
8. Slump drawings and details imply this, they are provided to show final construction. If contractor desires to use different means and methods than implied by these drawings, submit similar details for review.
9. Standard or typical structural details are intended to illustrate design concepts and to specify material and required physical dimensions matching or similar to the referenced locations in the drawing set.
10. Unless specifically noted otherwise, building sections may not illustrate all dowels, keyways, or waterstops required by design.
11. All concrete shall be placed in accordance with the specifications, test borings, or geotechnical report. A licensed geotechnical engineer shall be present during construction to test, inspect and verify all assumed soil conditions as required.

FOUNDATIONS

- 1. CAUTION: Existing underground utilities may exist anywhere on the site. Notify owner and Digger's hotline (800) 242-8511 (Wisconsin) prior to disturbing any grade or excavation.
2. Material Definitions and Gradations:
a. Non-frost-susceptible fill
b. Aggregate Base
c. Aggregate Filter/Base
d. Granular Structural Backfill
3. Structural foundations consist of driven piles as recommended by BRAUN INTERTEC in report B22001181 dated 5/20/2022. The structural engineer is not responsible for the accuracy or content of the subsurface soil conditions described in the specifications, test borings, or geotechnical report. A licensed geotechnical engineer shall be present during construction to test, inspect and verify all assumed soil conditions as required.

FOUNDATIONS (CONT)

- 4. Basement and subgrade tank walls shall be backfilled with Granular Structural Backfill or Non-Frost Susceptible Fill (as defined above) within 2 feet of the wall.
5. Away from walls, place fill in 8 inch loose lifts and compact to 98 percent Standard Proctor beneath foundations, 95 percent otherwise.
6. When placing compacted fill adjacent to foundation walls and piers, place backfill at equal rates on both sides to prevent overturning or structural damage.
7. Contractor shall provide for dewatering at excavations from either surface water or seepage.
8. Moisture content in soils beneath building locations should not be allowed to vary after footing excavations and after grading for slabs on grade are completed.
9. Do not place backfill on frozen subgrade. Do not place frozen backfill.
10. Base slab shall be constructed on a subgrade of native material compacted to at least 98 percent of its maximum dry density.
11. Grading: where not specifically shown on the plans, it is intended that all excavated and backfilled areas shall be graded to slope away from buildings and other structures.

DRIVEN PILES

- 1. The foundation system shall be supported by closed end driven steel pipe piling based on the recommendations of the project geotechnical engineering report.
2. Piles are designed for a maximum net capacity of 62.5 tons per pile (working load).
3. All pipe piles shall be filled with concrete (fc = 3,000 PSI) after inspecting for damage or leaking.
4. Reference the drawings for estimated pile lengths and/or estimated pile tip elevations.
5. Provide test piles as shown in the drawings, directed by the geotechnical engineer.
6. See project specification for required pile driving criteria, pile test program, coordination meetings, notification requirements, seismic monitoring and condition surveys of adjacent structures.

CONCRETE

- 1. An independent testing agency shall cast 4 six inch test cylinders for 4000 psi concrete, 5 cylinders for 6000 psi concrete or an equivalent number of four inch cylinders for each 75 cubic yards of each concrete mix placed or for each day's operation, whichever is the lesser amount.
2. All concrete except as noted in the following paragraphs shall meet the following requirements:
3. Concrete used in walls and columns shall meet the following requirements:
4. Grout fill used in hydraulic structures shall meet the following requirements:
5. Concrete fill for steel pipe piles shall meet the following requirements:
6. Concrete and grout exposed to frost (including foundation walls) shall be air entrained 6% +/- 1%.
7. Slump shall be 4 inches +/- 1 inch without water reducing admixtures.
8. Slump is used primarily as a measure of concrete consistency, truck to truck.
9. Water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates may be used for improved workability.
10. Do not add water to concrete at the jobsite without written approval of the SER, and in no case in excess of the water in the approved mix design.
11. No chloride containing admixtures are allowed.
12. All concrete is normal weight unless specifically noted otherwise.
13. Cement shall be Portland cement type 1 or Portland Limestone Cement type 1L conforming to ASTM C150.
14. Measured from the time water and cement are batched together, no more than 90 minutes shall elapse until concrete is placed.
15. Protect concrete in accordance with ACI 305 and ACI 306 for hot weather concreting and cold weather concreting respectively.
16. When air temperature is above 85 degrees, provide mist, shading, windscreens and other protection as required for 12 hours after placing.
17. Concrete being placed shall be protected from rain. If rain falls on concrete before it has set, or within 3 hours of placement in any event, contractor shall bear cost of testing to prove concrete is unaffected, and shall remove and replace affected concrete to the satisfaction of the engineer.
18. Wet cure (poly and burlap or proprietary blankets kept moist daily) for a minimum of 7 days; sides of footings may be buried after 24 hours.
19. Cementitious grout shall be non-shrink and non-metallic grout.
20. Leak testing is not required for this structure.
21. Coordinate with other trades for sleeves, conduit, electrical grounding wires, inserts, underground utilities, and other items to be embedded into concrete and verify that they are properly installed and supported before casting concrete.
22. Embedments shall not significantly impair the strength of the structure and shall not reduce fire protection.
23. No uncoated aluminum items shall be embedded in any concrete.

CONCRETE (CONT)

- 24. Bevel all exposed corners of concrete 3/4"x3/4".
25. Verify size and location of all equipment bases, housekeeping pads, and openings.
26. All concrete to be trowel finished shall be tested for air content, whether or not it is purposely air entrained.
27. Unless specifically noted otherwise, building sections may not illustrate all dowels, keyways, or waterstops required by design.
28. Concrete shall be placed in accordance with the specifications, test borings, or geotechnical report. A licensed geotechnical engineer shall be present during construction to test, inspect and verify all assumed soil conditions as required.

JOINTS IN CONCRETE STRUCTURES

- 1. Because of the effects of concrete consolidation, workmanship, detailing, cure, temperature, aggregate size, and other factors, Contractor is responsible for cracking in base slabs and walls of liquid-holding structures, and shall repair any leaking cracks by sealing, injecting, or otherwise filling them.
2. Concrete walls and top slabs in liquid-holding structures:
a. Concrete walls in liquid-holding structures shall have waterstopped construction joints at a maximum spacing of 20 feet for concrete proportioned according to these Notes and the specification.
b. Alternatively, a low-shrinkage mix may be proposed, and shrinkage measured for the specific concrete mix to be used in the walls, and the maximum construction joint spacing determined by the equation: Spacing = 2.0 / (sh + 0.03), where "sh" is the shrinkage in percent from the 35-day shrinkage test described below.
3. Concrete base slabs in liquid-holding structures:
a. Concrete base slabs in liquid-holding structures shall have waterstopped construction joints at a maximum spacing of 40 feet in each direction, with full reinforcing through the joint and developed each side of each joint.
b. Alternatively, shrinkage may be measured as specified above for the specific concrete mix to be used in the base slab, and the maximum spacing determined by the equation: Spacing = 4.0 / (sh + 0.03), where "sh" is the shrinkage in percent from the 35-day shrinkage test described above.

WATERSTOPS

- 1. Waterstops in new construction shall be 6-inch PVC, center bulb, ribbed, unless specifically noted otherwise.
2. At splices, miter all intersecting connections at 45 degrees and use a manufacturer approved heating iron to make full contact butt joints.
3. For construction joints at hardened (existing) concrete, hydrophilic waterstops may be proposed by the contractor in lieu of adhered split-T PVC waterstop.
4. Clear minimum cure of concrete over reinforcing steel shall be as follows unless specifically noted otherwise:
5. All reinforcing steel shall be tied to crossing reinforcing on at least every other bar (every bar at perimeter), and sufficiently to resist displacement from workers and placement of concrete.
6. Bar lap lengths in concrete and 90 degree end hooks shall be in accordance with the table below unless noted otherwise.

REINFORCING STEEL

- 1. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas.
2. All reinforcing steel shall conform to the requirements of ASTM A615 grade 60 steel.
3. Clear minimum cure of concrete over reinforcing steel shall be as follows unless specifically noted otherwise:
4. All reinforcing steel shall be tied to crossing reinforcing on at least every other bar (every bar at perimeter), and sufficiently to resist displacement from workers and placement of concrete.
5. All footing dowels shall be accurately positioned and wired in place before casting footing concrete.
6. Bar lap lengths in concrete and 90 degree end hooks shall be in accordance with the table below unless noted otherwise.

CLASS B REINFORCING BAR LAP SPLICE TABLE (note d, e, & f)

Table with columns for BAR SIZE, VERTICAL, HORIZONTAL, and three concrete strengths (fc = 3000 psi, 4000 psi, 6000 psi). Rows #3 through #11.

- a. Vertical bars; or horizontal or diagonal bars with less than 12" of concrete placed below them.
b. Horizontal or diagonal bars with 12" or more of concrete placed below them.
c. Use fc = 3000 psi values for masonry rebar laps.
d. For epoxy coated bars, multiply these values x 1.20.
e. For laps between different bar sizes, use the greater of these values based on the smaller bar, or these values based on the bigger bar divided by 1.30.
f. Hoop bar laps shall be staggered such that splices do not overlap with bars above, below, or on opposite faces.

- 7. Bars marked continuous, corner bars, and all vertical steel shall be lapped in accordance with table above at splices and embedments, unless shown otherwise.
8. Bar support accessories shall be as specified in latest edition of the ACI detailing handbook and the concrete reinforcing steel institute design handbook.
9. Unless shown on drawings, concrete shall be placed without construction joints except where specifically shown on shop drawings approved by the engineer.

POST INSTALLED ANCHOR RODS AND DOWELS

- 1. Unless noted otherwise, anchors and reinforcing dowels installed in concrete or concrete masonry shall be as noted below.
2. Approved manufacturers are: HILTI, ITW / Redhead, Simpson, and Powers / Rawl.
3. Permanent anchors exposed to earth, weather, or corrosive environments, including all anchors in wet areas, and anchors engaging stainless steel or FRP/Aluminum members, shall be stainless steel type 304 or 316.
4. Where expansion anchors are called for, contractor may substitute screw type anchors with self-tapping threads or adhesive anchors of the same size and embedment, subject to review of capacity by the engineer.
5. Adhesive shall have a current ICC EES report.
6. Anchors installed in concrete masonry and precast hollow core concrete shall be installed in cores grouted solid.
7. Holes shall be drilled, cleaned, and maintained until installation in accordance with manufacturer's recommendations.
8. Unless noted otherwise, anchors shall be installed to the following embedments:
9. Except as noted, all anchors shall have intermittent special structural inspection by one of the following.
a. Expansion and screw anchors:
b. Adhesive anchor rods and dowels:

STRUCTURAL METALS / FRP

- 1. All structural steel shall be as follows:
2. Splicing or modification of members in the field is prohibited without prior written approval of the SER.
3. Fabrication and erection shall be in accordance with the latest edition of the AISC Manual of Steel Construction, Code of Standard Practice for Steel Buildings and Bridges, except as follows:
4. Delete paragraph 3.2 and insert the following:
5. All aluminum shapes shall be ASTM B209, B308, alloy 6061-T6; except handrail may be 6063-T5 or -T6.
6. All exposed steel shall be galvanized.
7. All steel welding shall be performed by a certified welder using E70 electrodes in accordance with the requirements of AWS D1.1 "Structural Welding Code" and visually inspected.
8. All field welded connections shall be ultrasonic, ground where required, wire brush cleaned and painted to match the paint system.
9. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N).
10. All copes shall be made with a 1 inch minimum radius.
11. All anchor rods shall be minimum 3/4" diameter ASTM A276 Stainless Steel type 304 unless noted otherwise.
12. All cut or raw surfaces of FRP shall be coated with compatible epoxy.

SHOP DRAWING REVIEW

- 1. Short Elliott Hendrickson Inc. (SEH) will review the general contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by SEH.
2. Any items requiring submittal of calculation packages shall have calculations submitted prior to or as part of the shop drawing submittal they accompany.
3. Prior to submittal of a shop drawing or any related material to SEH, the GC shall:
4. SEH shall assume that no submission comprises a variation from the contract documents unless the GC advises SEH with written documentation.
5. Any items requiring submittal of calculation packages shall have calculations submitted prior to or as part of the shop drawing submittal they accompany.
6. Concrete mix designs and material certificates including admixtures, compounds applied to the concrete after placement, and associated product data.
7. Aggregate tests and concrete test history for each mix design, with the submission of concrete mix designs.
8. Reinforcing steel shop drawings including erection drawings and bending details.
9. Structural steel and metal fabrication shop drawings including erection drawings and piece details.

REQUIRED INSPECTION

- 1. Required inspection and testing is required according to the table below. Refer to specification section 01 45 10 for responsibilities. Contractor shall coordinate with SER, testing agency and geotechnical engineer throughout the project.
• Required Inspections shall be performed in accordance with IBC Chapter 17.
• Required inspection of reinforcing steel and anchor rod placement shall be performed prior to concrete placement or during anchor rod installation for adhesive anchors.
• Continuous inspection during concrete placement is required.
• Conduct concrete slump tests in accordance with ASTM C143.
• Obtain set of a four (4) concrete test cylinders each time concrete is placed. Make test cylinders in accordance with ASTM C39.
• See these Notes for Testing of Post-Installed anchors and rebar where installation is not witnessed.
• Reports of Required Inspections shall be provided, at the frequency noted above, to the Owner, Contractor, and Engineer of Record by the firm contracted to perform Required Inspections.
• Special Inspection criteria presented above and in specification shall apply to all footings and foundation walls, but does not apply to non-structural slab on grade and site work concrete.

Table with columns: DESCRIPTION OF WORK - PER IBC CH. 17, INSPECTION FREQUENCY, TESTING (YES/NO), and NON-APPLICABLE. Rows include METAL CONSTRUCTION, CONCRETE CONSTRUCTION, MASONRY CONSTRUCTION - LEVEL A, MASONRY CONSTRUCTION - LEVEL B, WOOD AND LIGHT GAUGE METAL, SOLS, CAST-IN-PLACE DEEP FOUNDATIONS, and DRIVEN DEEP FOUNDATIONS ELEMENTS.

X:\K\H\ILL\CRS\163627-5-final-dsgn\51-drawings\05-Rev\ILL\CRS 163627_Lacrosse Storm Tank.dwg 2:03:14 PM 7/27/2022

Table with columns: SEH Project, LACRS 163627, Rev. #, Description, Date. Includes Drawn By (PAM), Designed By (MLH/SJM), Checked By (MLH).

Table with columns: Revision Issue, Description, Date, Rev. #. Includes Revision 1 (RELEASED FOR PERMITTING), Revision 2 (RELEASED FOR BIDDING), Revision 3 (RELEASED FOR REBID).

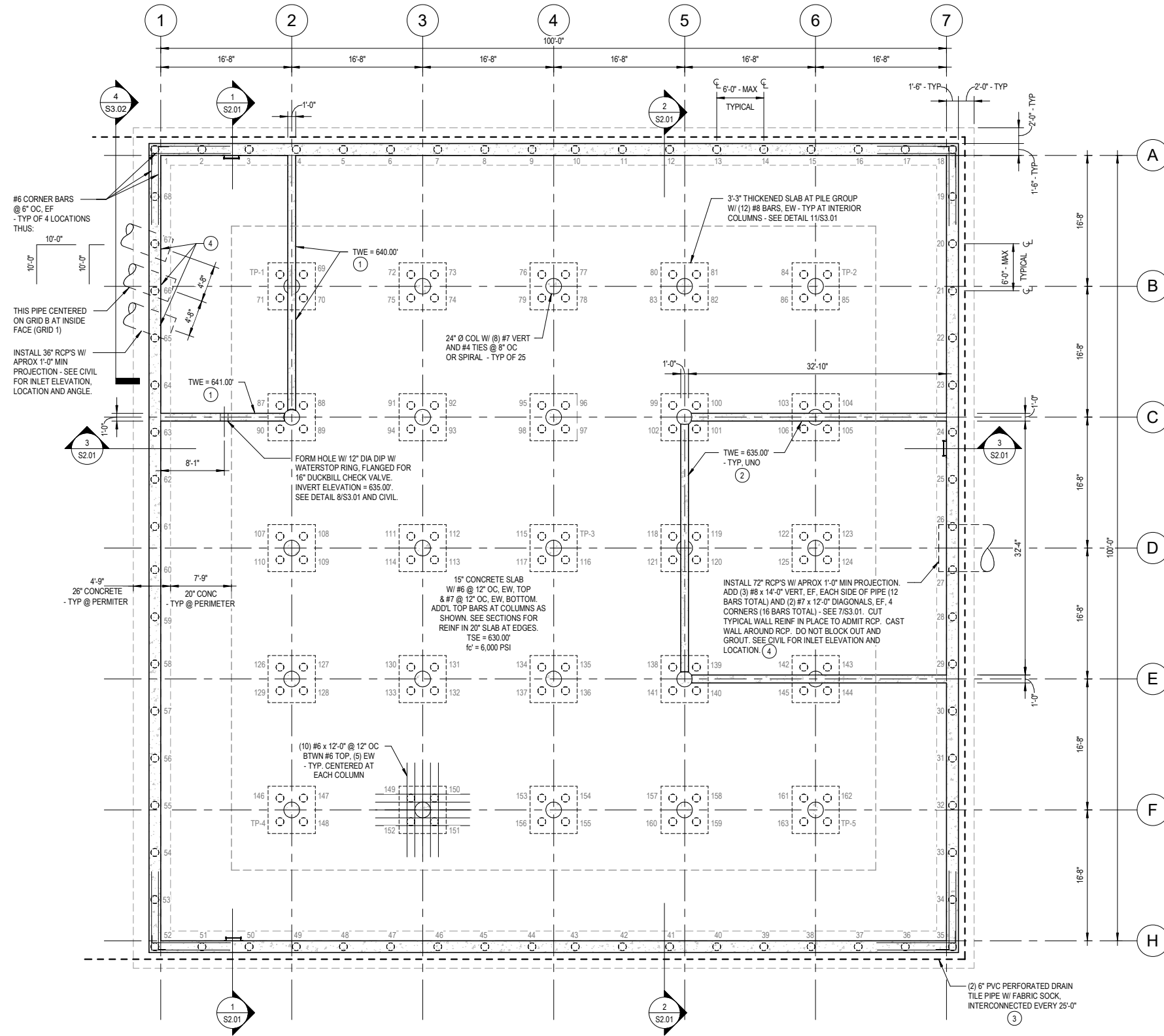
Table with columns: Revision Issue, Description, Date, Rev. #. Includes Revision 1 (RELEASED FOR PERMITTING), Revision 2 (RELEASED FOR BIDDING), Revision 3 (RELEASED FOR REBID).



RIVER POINT DISTRICT UNDERGROUND RESERVOIR LA CROSSE, WISCONSIN

STORM TANK STRUCTURAL GENERAL

S0.02



- FOUNDATION PLAN NOTES:**
(TYPICAL UNLESS NOTED OTHERWISE)
- SEE TYPICAL DETAILS FOR UTILITY PENETRATIONS THROUGH WALLS. SEE PLAN FOR APPROXIMATE LOCATIONS. VERIFY LOCATIONS AND ELEVATIONS WITH CIVIL AND MECHANICAL DRAWINGS.
 - FOR SLAB JOINT LAYOUTS, SEE GENERAL STRUCTURAL NOTES FOR CRITERIA. SEE TYPICAL SLAB CONSTRUCTION JOINT DETAILS.
 - VERIFY SIZE, LOCATION AND INVERT ELEVATIONS FOR ALL UTILITIES, SITE STRUCTURES, SUMPS AND DRAINS WITH CIVIL, MECHANICAL, AND ELECTRICAL AND DRAWINGS.
 - ALL PILE GROUPS AND PILES ARE CENTERED ON WALLS AND COLUMNS - TYPICAL, UNLESS NOTED OTHERWISE. SEE PLAN AND TYPICAL DETAILS.

- FOUNDATION PLAN KEYNOTES:**
- 12" CONCRETE WALL WITH #6 @ 12" OC VERTICAL AND HORIZONTAL DOWELS AND HORIZONTAL BARS, #5 @ 12" OC VERTICAL, EACH FACE WITH HOOKED DOWELS INTO SLAB BELOW. SINGLE #6 HORIZONTAL DOWELS @ 12" OC, CENTERED INTO COLUMNS, SEE DETAIL 4/S3.02
 - 12" CONCRETE WALL WITH #5 @ 12" OC, EW, EF. SINGLE #6 HORIZONTAL DOWELS @ 12" OC, CENTERED INTO COLUMNS
 - DAYLIGHT DRAIN TILES W/ RODENT SCREEN AND CONCRETE SPLASH PAD, EACH END.
 - INSTALL PRESS SEAL CAS 802 PER MANUFACTURER'S RECOMMENDATION, WITH 1" FOAM-FILLED GAP AROUND PIPE. FULL THICKNESS OF WALL.

- STEEL PIPE PILE PLAN NOTES:**
- SEE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR PILE TYPE, CAPACITY, AND TEST PILE REQUIREMENTS.
 - PILE NUMBERS ARE INDICATED ON PLAN. 163 PILES THUS AND 5 TEST PILES (INDICATED BY TP-X).
 - ESTIMATED PILE LENGTHS FOR PILE GROUPS IN THICKENED SLAB AND PERIMETER PILES, IS 68 FEET. TEST PILES SHALL BE MINIMUM 80 FEET LONG. IF CAPACITY IS NOT REACHED WITH 65 FEET OF TEST PILE IN THE GROUND, STOP AND WAIT FOR PORE WATER TO DISSIPATE, THEN RE-STRIKE. WORKING PILE CAPACITY IS 62.5 TONS (125 KIPS) WITH A FACTOR OF SAFETY OF 3.0. REFERENCE GEOTECHNICAL REPORT.
 - PILE DRIVER SHALL RECORD TIP ELEVATION, CAPACITY BASED ON FINAL 10 BLOWS, AND RE-STRIKE, IF ANY, FOR EACH PILE.

STRUCTURAL FOUNDATION PLAN
1/S1.01
1/8" = 1'-0"

X:\K\ILLACRS\163627\5-final-dgn\51-drawings\05-Rev\ILLACRS 163627_Lacrosse Structural_Sheet_S225.dwg

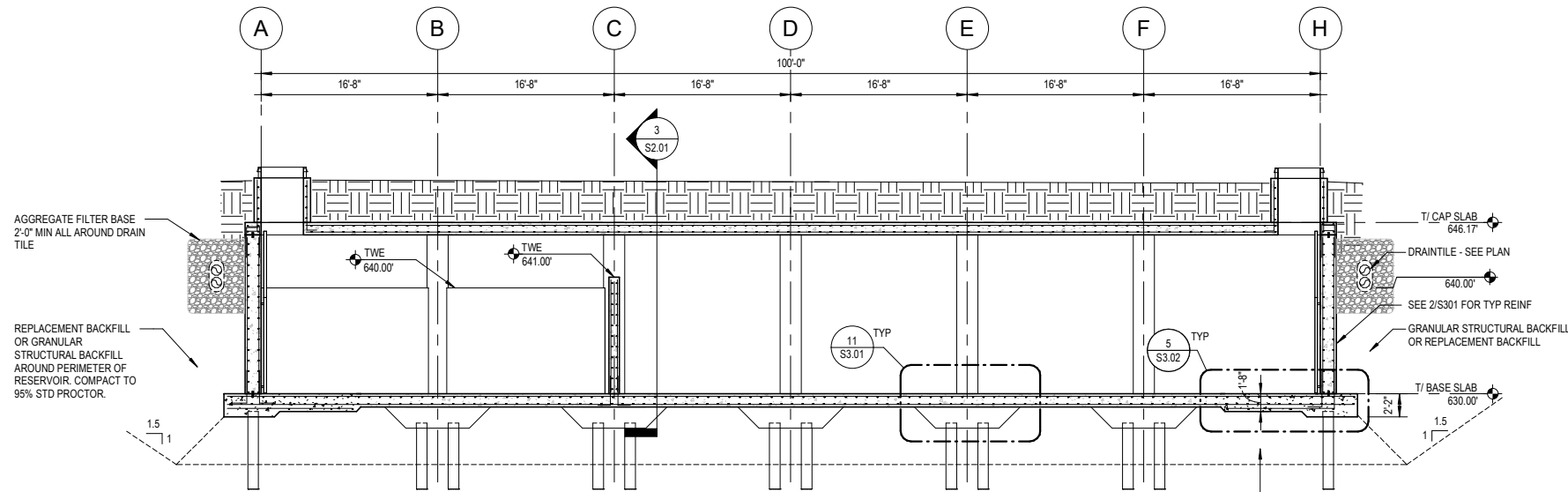
SEH Project	LACRS 163627	Rev. #	Revision Issue Description	Date	Rev. #	Revision Issue Description	Date
Drawn By	PAM	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	MLH/SMJ	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	MLH	3	RELEASED FOR REBID	07.29.2022			



RIVER POINT DISTRICT
UNDERGROUND RESERVOIR
LA CROSSE, WISCONSIN

STORM TANK STRUCTURAL FOUNDATION

S1.01



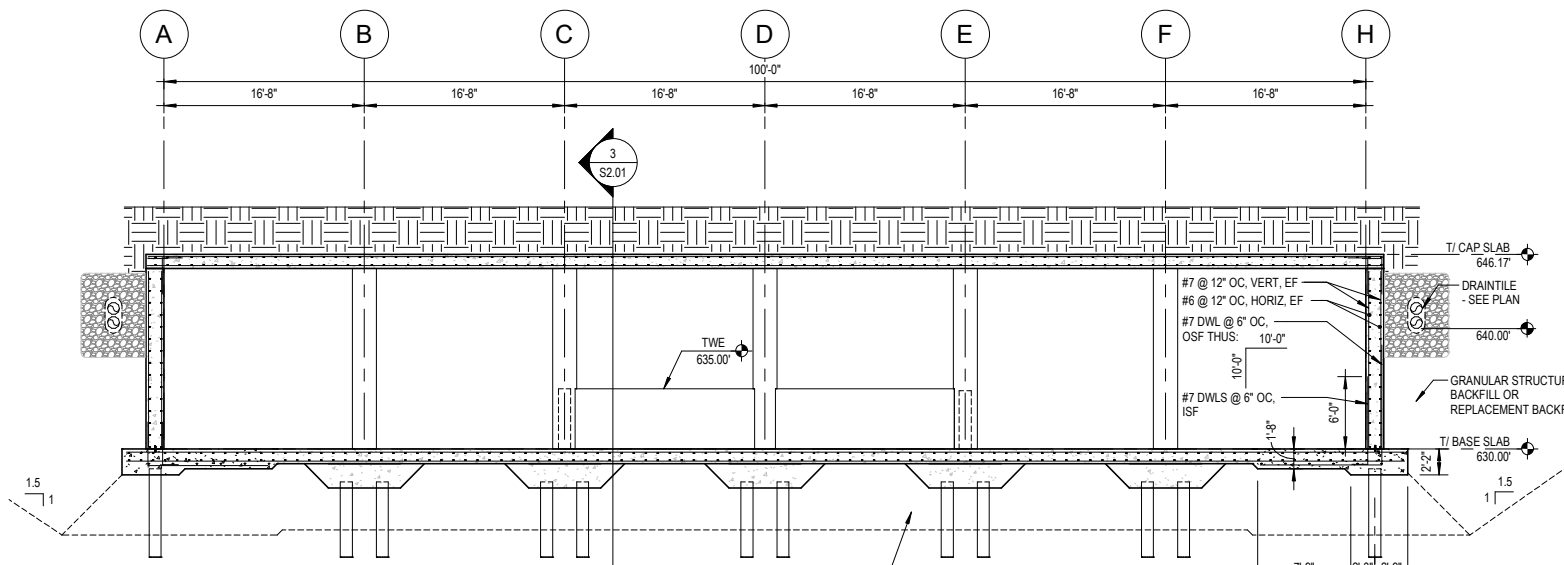
1
S2.01
1/8" = 1'-0"
0 4 8 16

5'-0" AGGREGATE FILTER / BASE MATERIAL PLACED ON FILTER FABRIC. TAKE CARE TO MINIMIZE DISTURBANCE OF IN-PLACE CLAYS DURING PLACEMENT AND SUBSEQUENT CONSTRUCTION. AGGREGATE FILTER/BASE IS INTENDED TO ASSIST WITH DRAINAGE AND CARRY CONSTRUCTION EQUIPMENT SUCH AS PILE DRIVING CRANES. CONTRACTOR MAY CHOOSE TO USE LESS MATERIAL BENEATH THE BASE SLAB AT THEIR OPTION AND THEIR RISK, WITH A MINIMUM OF 3'-0" THICKNESS BENEATH 15' SLAB AND BENEATH HEAVY EQUIPMENT. PAYMENT IS BY LUMP SUM.

NOTES:

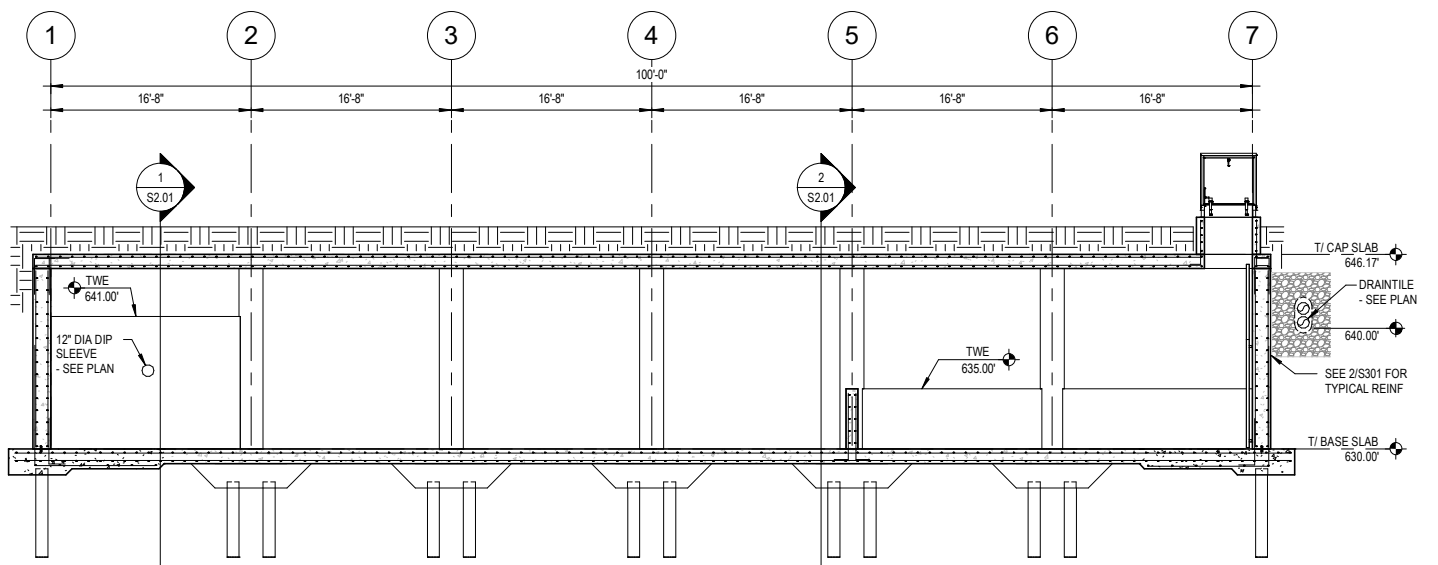
(TYPICAL UNLESS NOTED OTHERWISE)

1. AGGREGATE FILTER/BASE SHALL MEET GRADATION SPECIFIED FOR AGGREGATE FILTER/BASE MATERIAL IN THE STRUCTURAL NOTES. AGGREGATE FILTER/BASE MATERIAL IS NOT COMPACTED.
2. GRANULAR STRUCTURAL BACKFILL SHALL BE PAID FOR AS REPLACEMENT BACKFILL AS DEFINED IN SPECIFICATION 31 23 33. IT SHALL MEET EITHER THE GRADATION SPECIFIED FOR GRANULAR STRUCTURAL BACKFILL IN THE STRUCTURAL NOTES, OR REPLACEMENT BACKFILL.



2
S2.01
1/8" = 1'-0"
0 4 8 16

5'-0" AGGREGATE FILTER / BASE MATERIAL PLACED ON FILTER FABRIC. TAKE CARE TO MINIMIZE DISTURBANCE OF IN-PLACE CLAYS DURING PLACEMENT AND SUBSEQUENT CONSTRUCTION. SEE NOTE ABOVE.



3
S2.01
1/8" = 1'-0"
0 4 8 16

X:\K\163627\5-final-dgn\51-drawings\95-Rev\163627_Lacrosse Storm Tank_Struct_S2.01.dwg

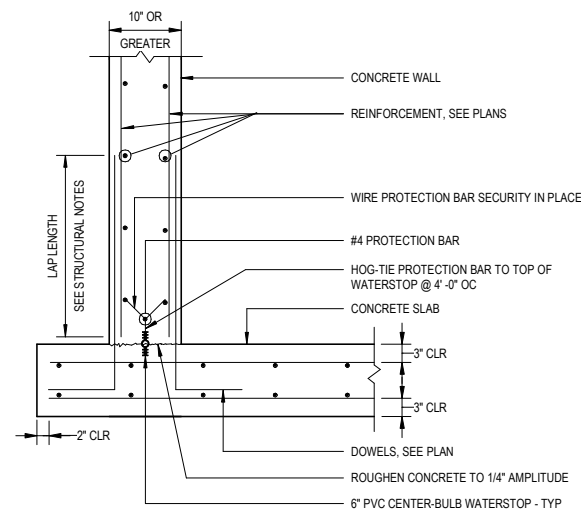
SEH Project	LACRS 163627	Rev. #	Revision Issue Description	Date	Rev. #	Revision Issue Description	Date
Drawn By	PAM	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	MLH/SMJ	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	MLH	3	RELEASED FOR REBID	07.29.2022			



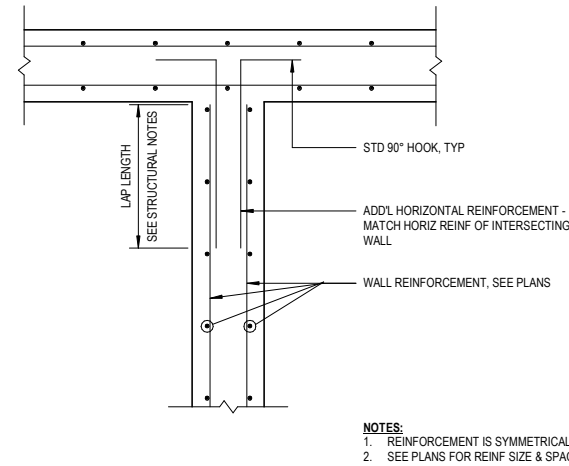
RIVER POINT DISTRICT
UNDERGROUND RESERVOIR
LA CROSSE, WISCONSIN

STORM TANK STRUCTURAL SECTIONS

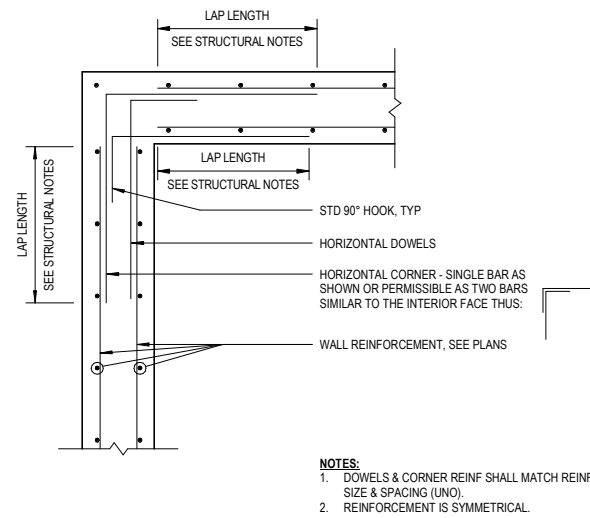
S2.01



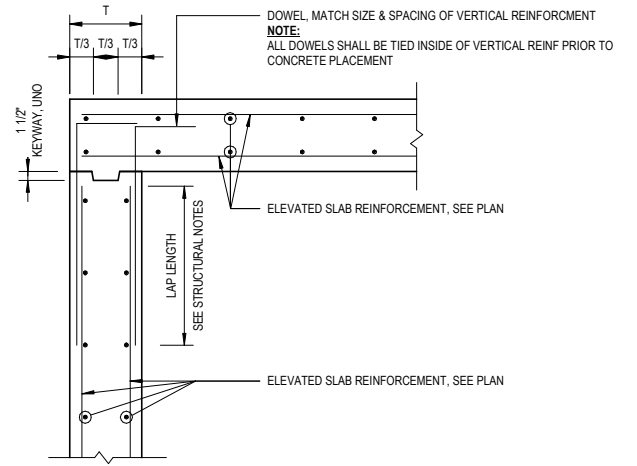
1 WALL TO SLAB JOINT DETAIL
S3.01 NOT TO SCALE



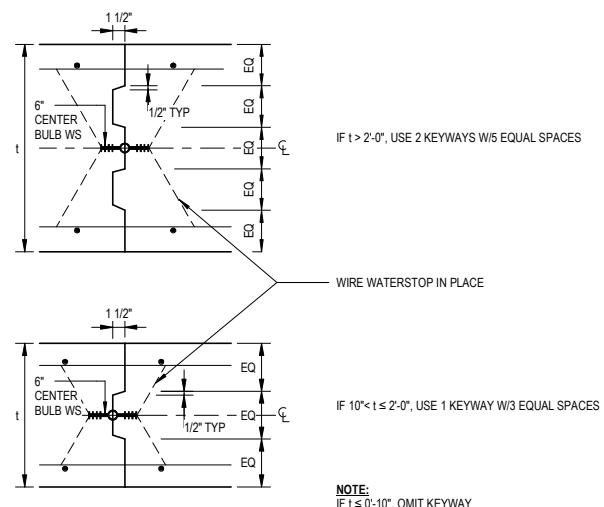
2 WALL INTERSECTION REINFORCEMENT DETAIL
S3.01 NOT TO SCALE



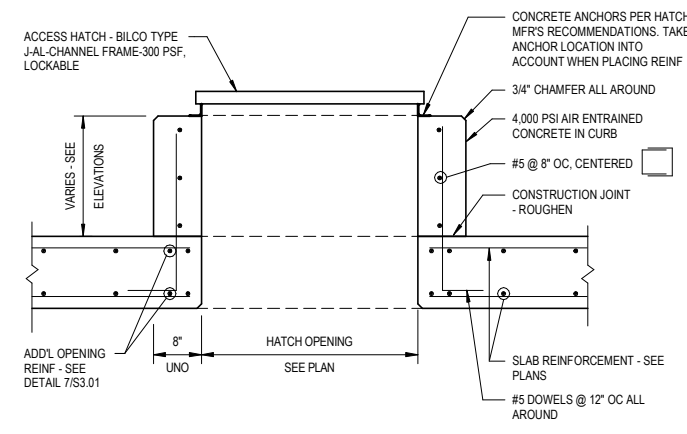
3 WALL CORNER REINFORCEMENT DETAIL
S3.01 NOT TO SCALE



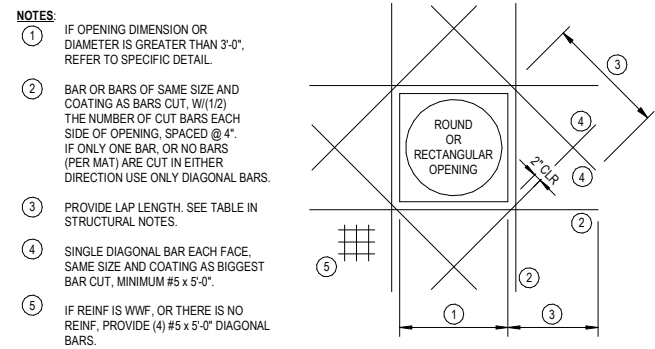
13 ELEVATED SLAB CONNECTION DETAIL
S3.01 NOT TO SCALE



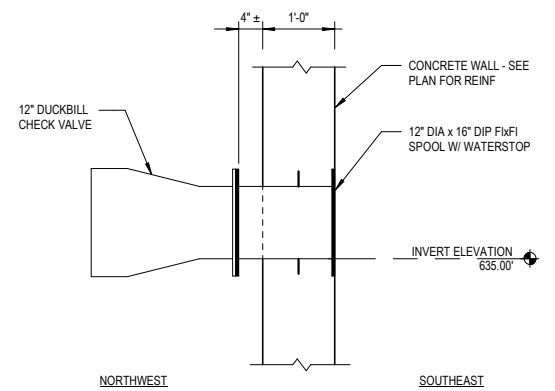
5 WALL CONSTRUCTION JOINT DETAIL
S3.01 NOT TO SCALE



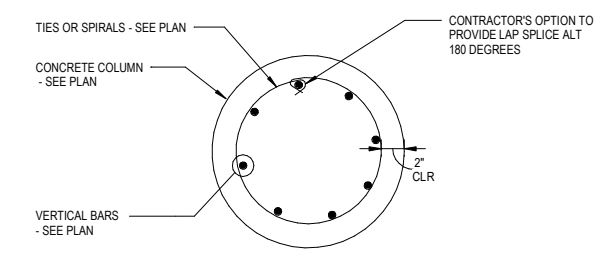
6 ACCESS HATCH CURB DETAIL
S3.01 NOT TO SCALE



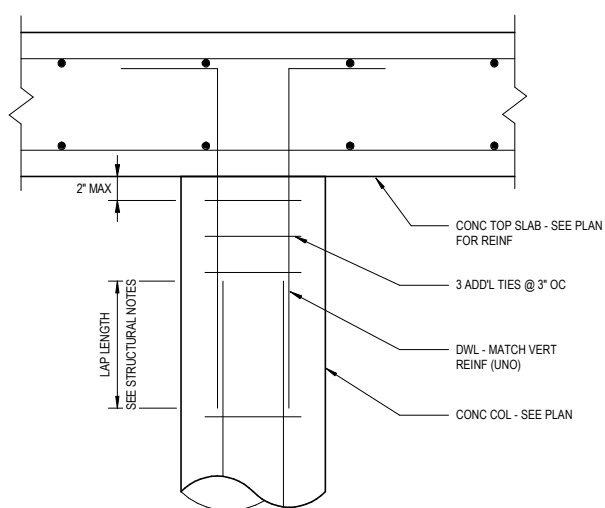
7 OPENING REINFORCEMENT DETAIL
S3.01 NOT TO SCALE



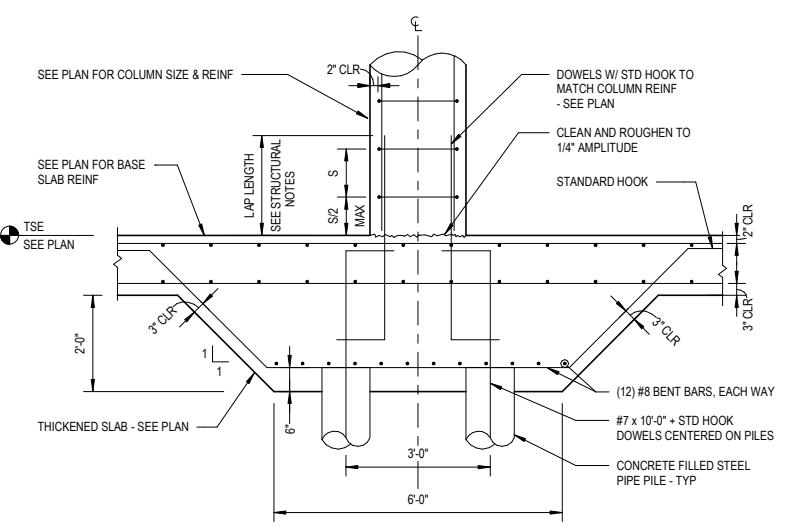
8 CHECK VALVE DETAIL
S3.01 NOT TO SCALE



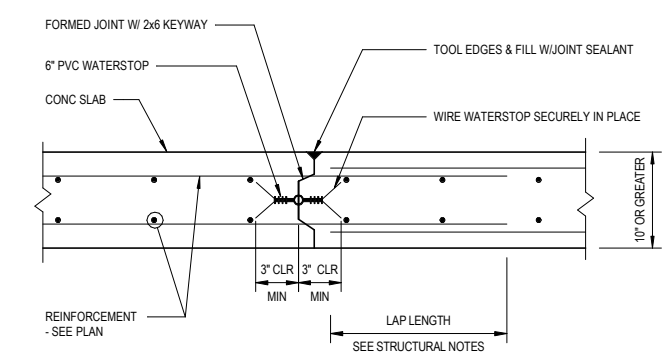
9 CONCRETE COLUMN REINFORCING DETAIL
S3.01 NOT TO SCALE



10 TYPICAL INTERIOR COLUMN SECTION AT TOP SLAB
S3.01 NOT TO SCALE



11 TYPICAL INTERIOR COLUMN SECTION AT PILE CAP
S3.01 NOT TO SCALE



12 SLAB CONSTRUCTION JT DETAIL (TWO MATS)
S3.01 NOT TO SCALE

X:\K\ILLACRS\163627\5-final-dgn\51-drawings\95-Rev\ILACRS 163627_Lacrosse Storm Tank_Struct_2204.rvt

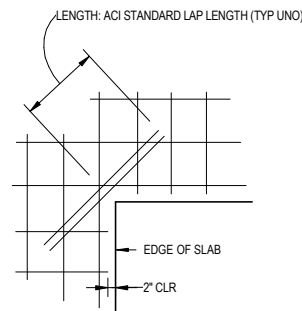
SEH Project	LACRS 163627	Rev. #	Revision Issue Description	Date	Rev. #	Revision Issue Description	Date
Drawn By	PAM	1	RELEASED FOR PERMITTING	03.17.2022			
Designed By	MLH/SMJ	2	RELEASED FOR BIDDING	06.03.2022			
Checked By	MLH	3	RELEASED FOR REBID	07.29.2022			



RIVER POINT DISTRICT
UNDERGROUND RESERVOIR
LA CROSSE, WISCONSIN

**STORM TANK STRUCTURAL
DETAILS**

S3.01



SLAB REINF BARS *	ADDITIONAL CORNER BARS
WWF	(1) #4
#4	(1) #4
#5	(1) #5
#6	(1) #6
#7	(2) #5
#8	(2) #6

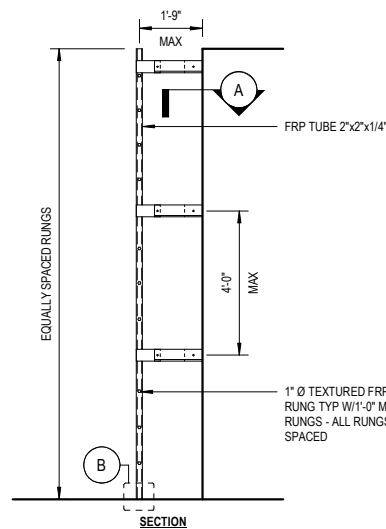
* USE LARGEST DIAMETER BAR IN EITHER DIRECTION FOR DETERMINING CORNER BARS.

NOTE:
PROVIDE 2" CLEAR COVER OVER ALL BARS AT OPENINGS

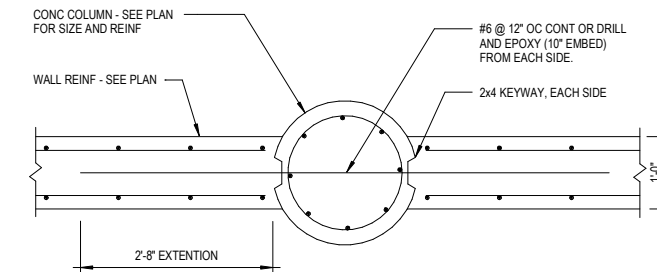
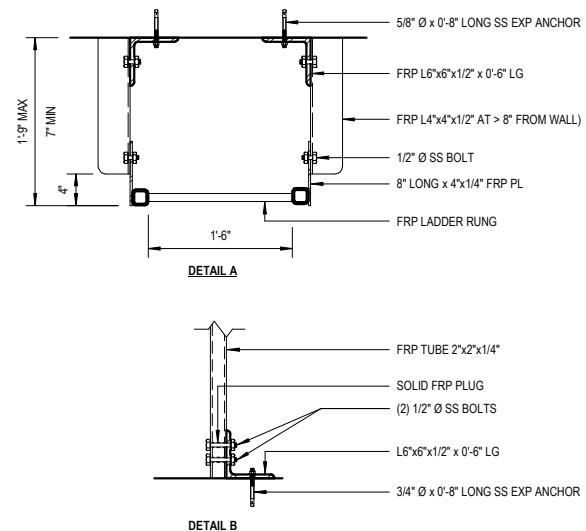
ADDITIONAL CORNER BARS:

- WHEN SLAB HAS BOTTOM REINFORCEMENT LAYER ONLY, PLACE DIAGONAL BARS AT MID-DEPTH.
- WHEN SLAB HAS TOP REINFORCEMENT LAYER
- ONLY, PLACE DIAGONAL BARS BELOW TOP REINFORCEMENT.
- WHEN SLAB HAS TOP & BOTTOM REINFORCEMENT LAYERS, PLACE DIAGONAL BARS BETWEEN TOP & BOTTOM REINFORCEMENT (2-LAYERS).

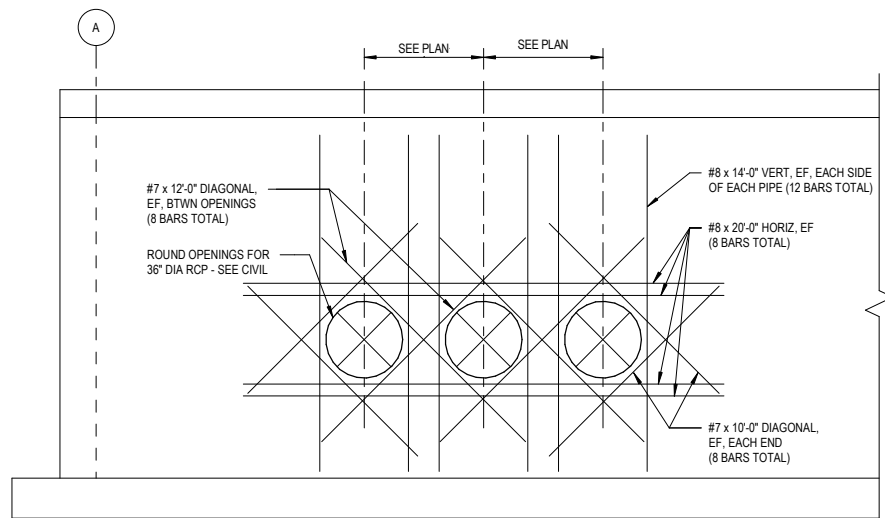
1
S3.02
SLAB REENTRANT CORNER DETAIL
NOT TO SCALE



2
S3.02
FRP LADDER DETAIL
NOT TO SCALE

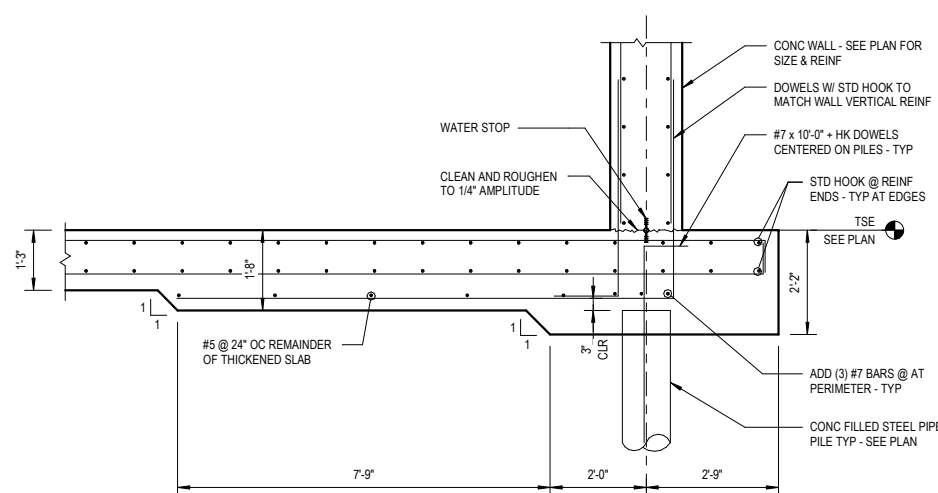


3
S3.02
DETAIL AT INTERIOR WALLS
NOT TO SCALE



NOTES:
1. CUT WALL REINFORCING IN PLACE TO ADMIT RCP'S. CAST WALL AROUND RCP'S. DO NOT BLOCK OUT AND GROUT.
2. REFERENCE TYPICAL DETAIL 7/S3.01 FOR INFO NOT SHOWN.

4
S3.02
ADDITIONAL REINFORCING AT OUTLET PIPES
NOT TO SCALE



NOTES:
1. SEE 2/S2.01 FOR INFORMATION NOT SHOWN.

5
S3.02
TYPICAL EXTERIOR WALL SECTION AT PILE CAP
NOT TO SCALE

X:\K\0\1\1\ACRS\163627\5-final-dsgn\5-drawings\05-Rev\1\ACRS 163627_Lacrosse
Structural_Sheet_S3.02.dwg

SEH Project LACRS 163627
Drawn By PAM
Designed By MLH/SMJ
Checked By MLH

Rev. #	Description	Date
1	RELEASED FOR PERMITTING	03.17.2022
2	RELEASED FOR BIDDING	06.03.2022
3	RELEASED FOR REBID	07.29.2022

Revision Issue Description

Rev. #

Date

Rev. #

Date

Revision Issue Description

Rev. #

Date



RIVER POINT DISTRICT
UNDERGROUND RESERVOIR
LA CROSSE, WISCONSIN

**STORM TANK STRUCTURAL
DETAILS**

S3.02