

GENERAL NOTES

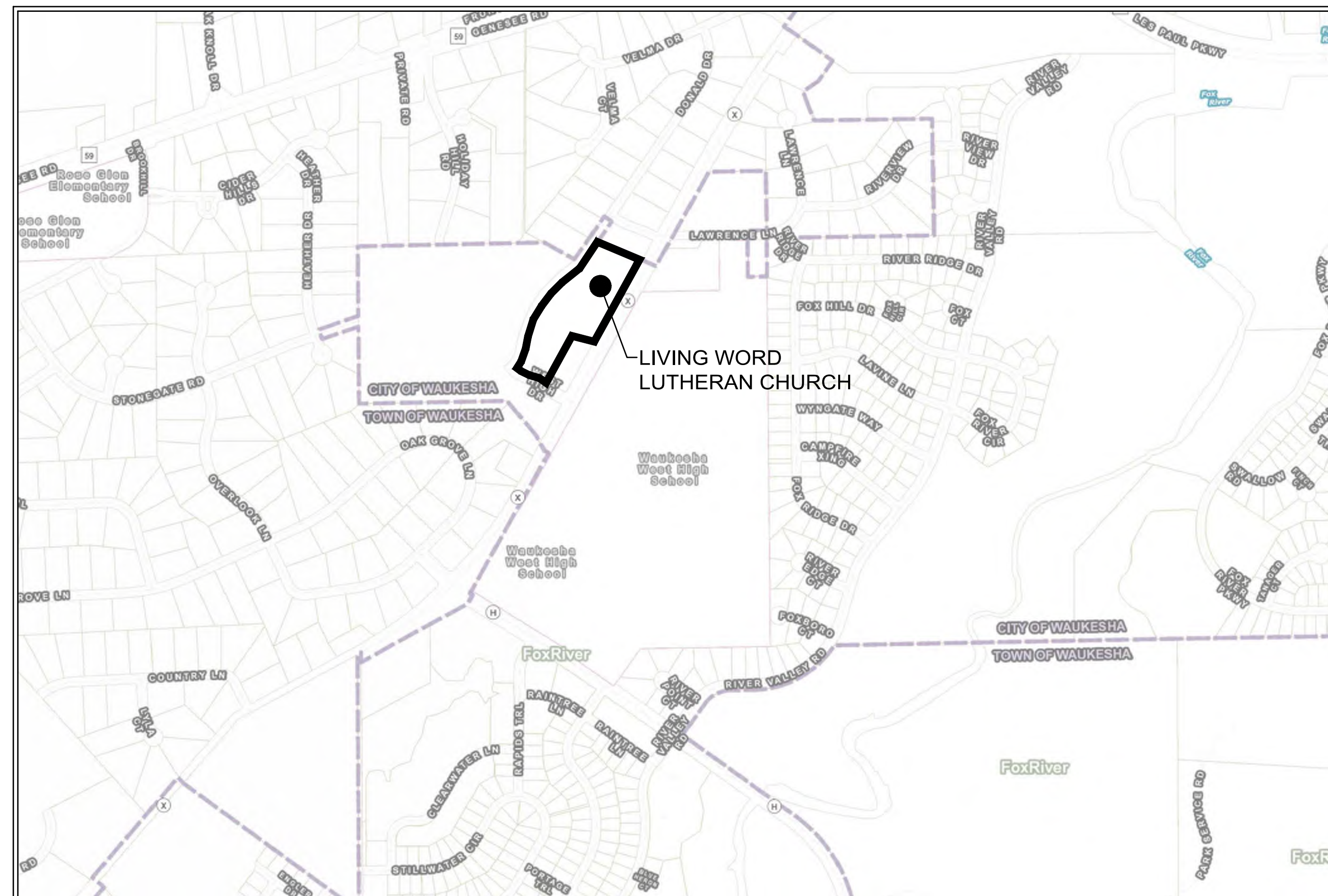
- THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
 - THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
 - WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
 - WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
 - CITY OF WAUKESHA DEVELOPMENT STANDARDS.
 - CITY OF WAUKESHA STANDARDS AND SPECIFICATIONS.
- 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 BY SWEEPING BEFORE THE END OF THE WORKING DAY.
- THE CONTRACTOR MUST AND IS REQUIRED TO NOTIFY THE CITY OF WAUKESHA SEWER AND WATER UTILITY A MINIMUM OF 7 DAYS IN ADVANCE OF WATER MAIN FILLING, WATER MAIN FLUSHING, WATER MAIN TESTING AND WATER MAIN CONNECTIONS. NO CONNECTION SHALL BE MADE TO THE EXISTING WATER SYSTEM UNTIL SAFE SAMPLES FROM THE NEW MAIN HAVE BEEN OBTAINED. THE CITY OF WAUKESHA WILL REQUIRE A METER WHEN FLUSHING THE WATER MAIN AFTER THE PRESSURE TEST AND SAFE WATER SAMPLE IS TAKEN.
- CONTRACTOR SHALL NOTIFY THE CITY OF WAUKESHA 7 DAYS PRIOR TO STARTING ANY PUBLIC WATER MAIN AND CULVERT CONSTRUCTION.

LIVING WORD LUTHERAN CHURCH

PROPOSED SITE DEVELOPMENT PLANS

CTH "X"/ SAYLESVILLE ROAD

CITY OF WAUKESHA, WISCONSIN



SITE VICINITY MAP
NOT TO SCALE

ARCHITECTS:
TREDO GROUP
219 N MILWAUKEE ST - SUITE 630
MILWAUKEE, WI 53202
TEL: 414-539-3336

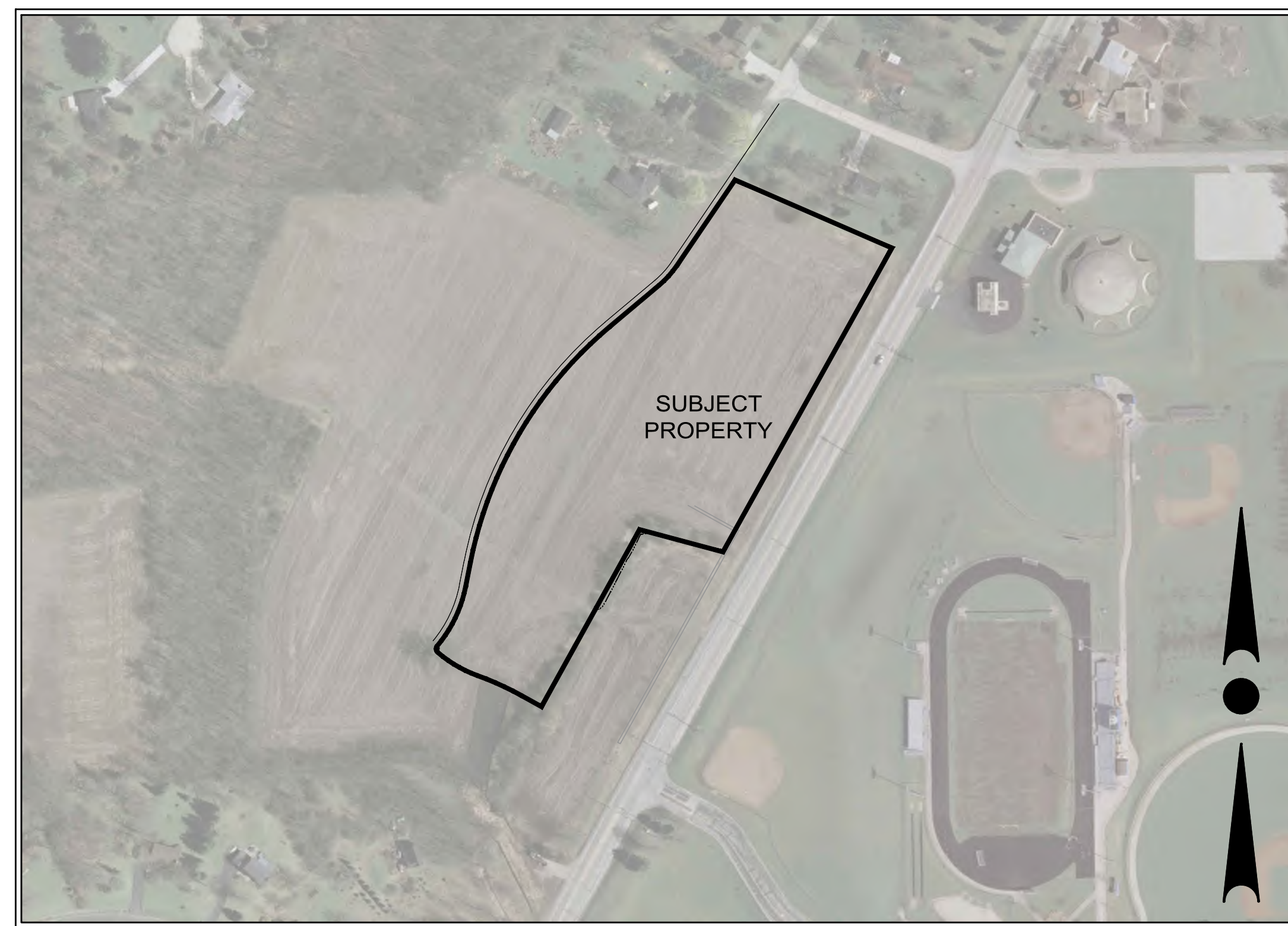
SITE CIVIL ENGINEER:
TRIO ENGINEERING, LLC
12660 W. NORTH AVE, BLDG. D
BROOKFIELD, WI 53005
PHONE: 262-790-1480

PROPERTY ADDRESS:
DONALD DRIVE
WAUKESHA, WI 53188

WETLAND DELINEATOR:
ONEIDA TOTAL INTEGRATED ENTERPRISES
1033 N MAYFAIR ROAD SUITE 200
MILWAUKEE, WI 53226
PHONE: 414-257-4200

GEOTECHNICAL CONSULTANT:
CGC, INC
336 S. CURTIS ROAD
WEST ALLIS, WI 53214
PHONE: 414-443-2000

DATUM:
CITY OF WAUKESHA DATUM



AERIAL SITE PHOTO
NOT TO SCALE

SHEET INDEX

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BROOKFIELD, WI 53005
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FAX: (262) 790-1481
EMAIL: jpuddelko@trioeng.com

PROJECT:
LIVING WORD LUTHERAN CHURCH

CITY OF WAUKESHA, WISCONSIN
BY: LIVING WORD LUTHERAN CHURCH
2712 SUSSEX LANE
WAUKESHA, WI 53188

REVISION HISTORY

DATE	DESCRIPTION
03/22/2019	SITE PLAN REV.
02/07/2019	SITE PLAN REV.
08/28/2018	DSPS SUBMITTAL
06/06/2018	INITIAL SUBMITTAL

DATE:
MARCH 22, 2019

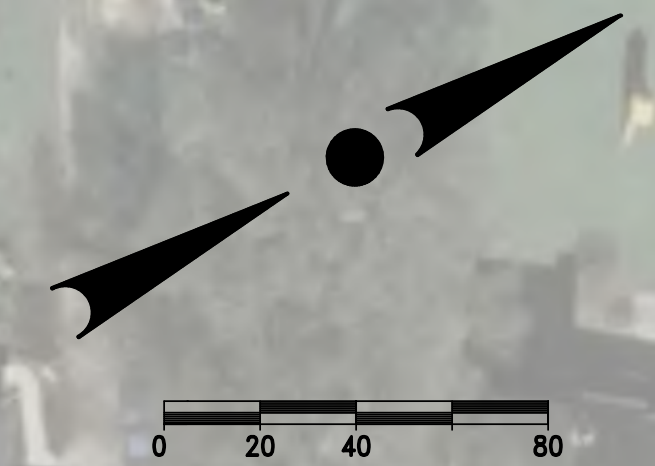
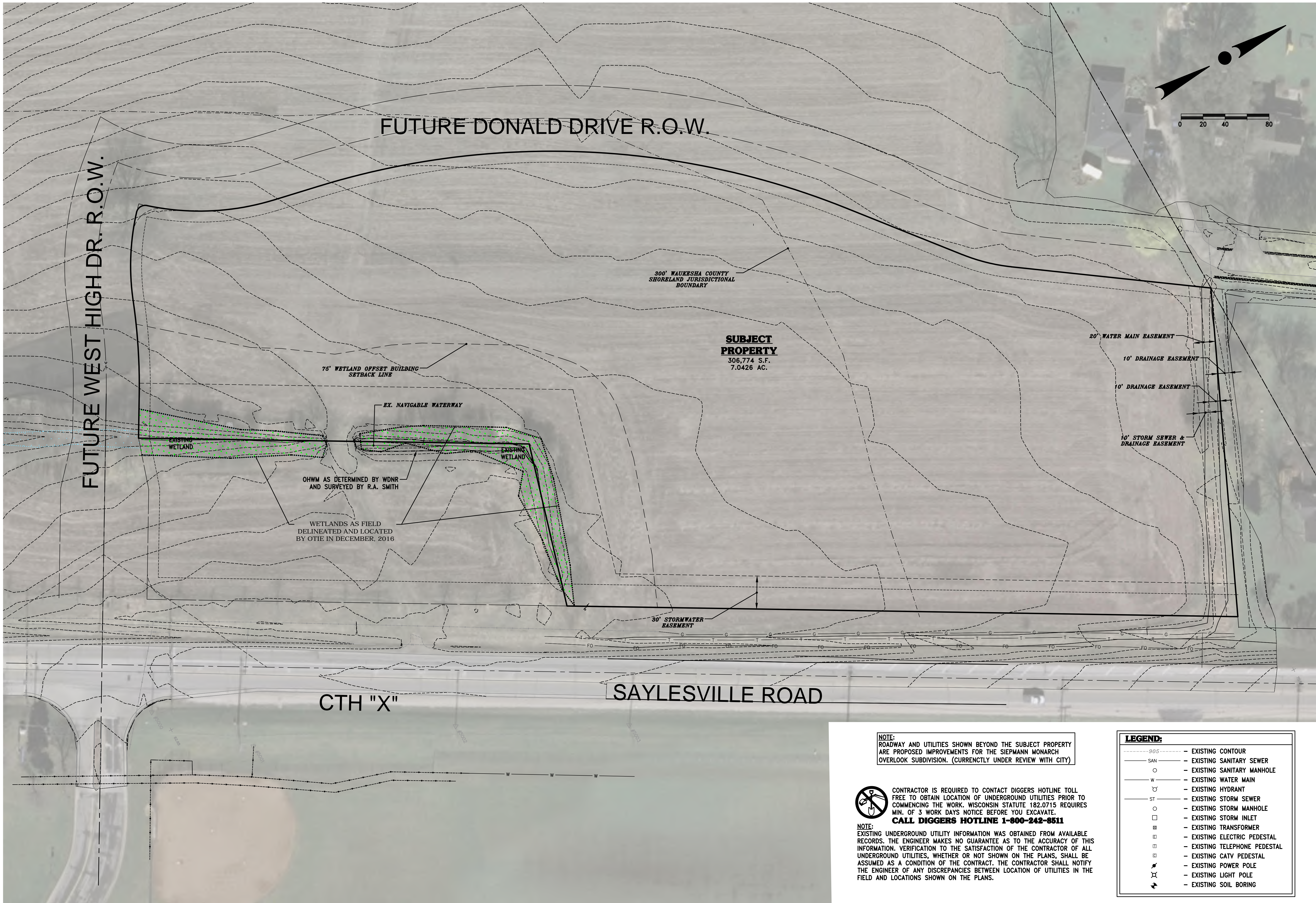
JOB NUMBER:
15025

DESCRIPTION:
COVER SHEET

SHEET

T1

H:\C900\990\15025-01\CONSTRUCTION PLANS\CIVIL PLANS-LIVING WORD LUTHERAN CHURCH-22X34.DWG



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DATE:
MARCH 22, 2019

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DESCRIPTION:
EXISTING SITE PLAN

SHEET

C1.0

NOTE:
ROADWAY AND UTILITIES SHOWN BEYOND THE SUBJECT PROPERTY ARE PROPOSED IMPROVEMENTS FOR THE SIEPMANN MONARCH OVERLOOK SUBDIVISION. (CURRENTLY UNDER REVIEW WITH CITY)



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.

LEGEND:	
---905---	EXISTING CONTOUR
—SAN—	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
—W—	EXISTING WATER MAIN
⊕	EXISTING HYDRANT
—ST—	EXISTING STORM SEWER
○	EXISTING STORM MANHOLE
□	EXISTING STORM INLET
⊞	EXISTING TRANSFORMER
⊞	EXISTING ELECTRIC PEDESTAL
⊞	EXISTING TELEPHONE PEDESTAL
⊞	EXISTING CATV PEDESTAL
⚡	EXISTING POWER POLE
⚡	EXISTING LIGHT POLE
⚡	EXISTING SOIL BORING



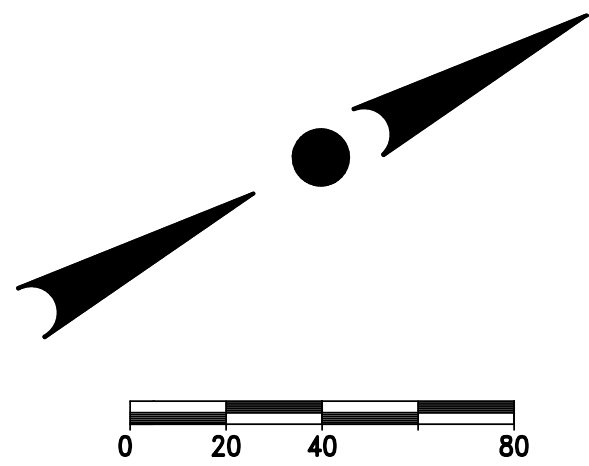
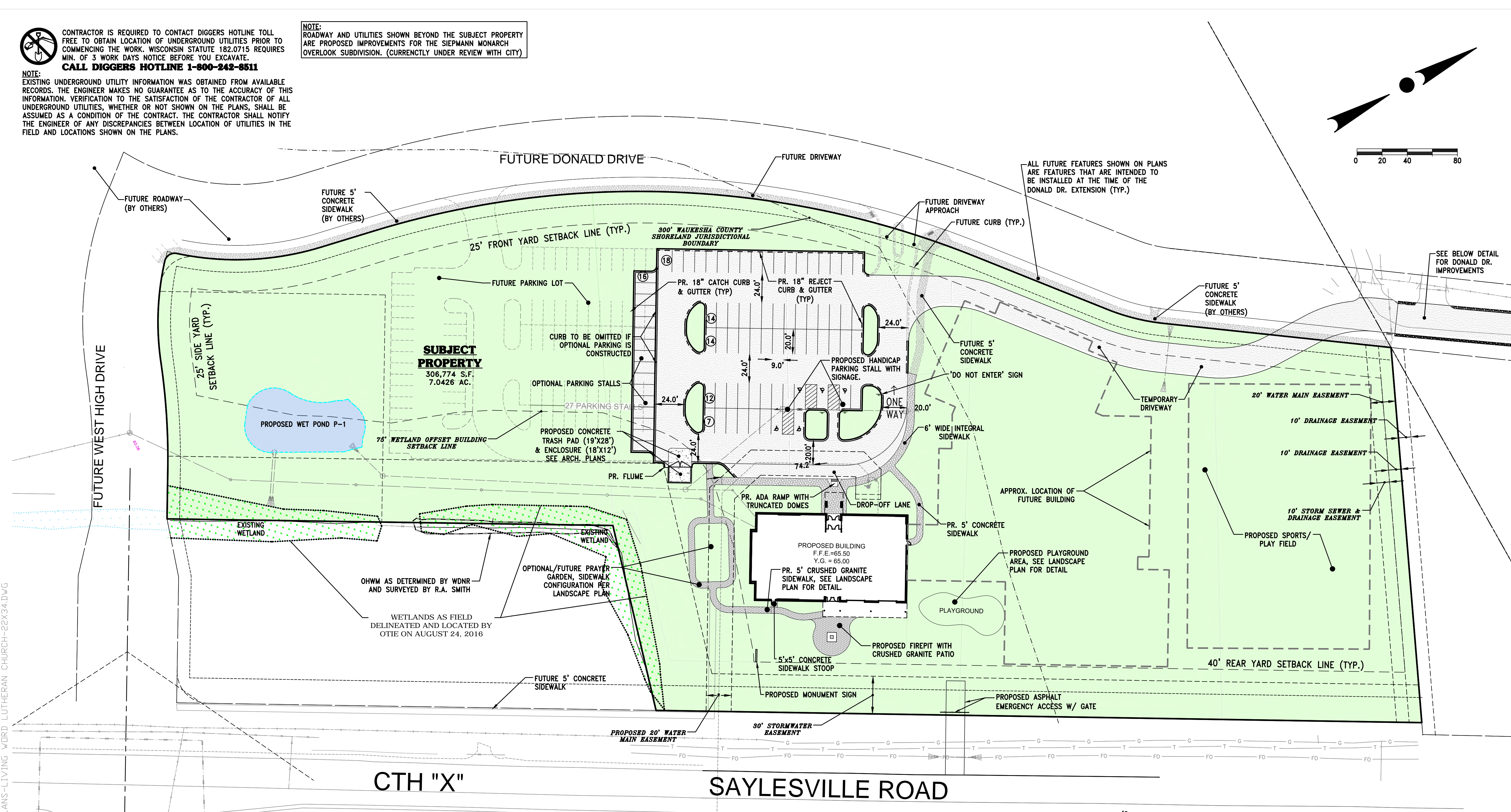
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BROOKFIELD, WI 53005
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ALL FUTURE FEATURES SHOWN ON PLANS ARE FEATURES THAT ARE INTENDED TO BE INSTALLED AT THE TIME OF THE DONALD DR. EXTENSION (TYP.)

SEE BELOW DETAIL FOR DONALD DR. IMPROVEMENTS

PROJECT:
LIVING WORD LUTHERAN CHURCH
CITY OF WAUKESHA, WISCONSIN
BY: LIVING WORD LUTHERAN CHURCH
2712 SUSSEX LANE
WAUKESHA, WI 53188

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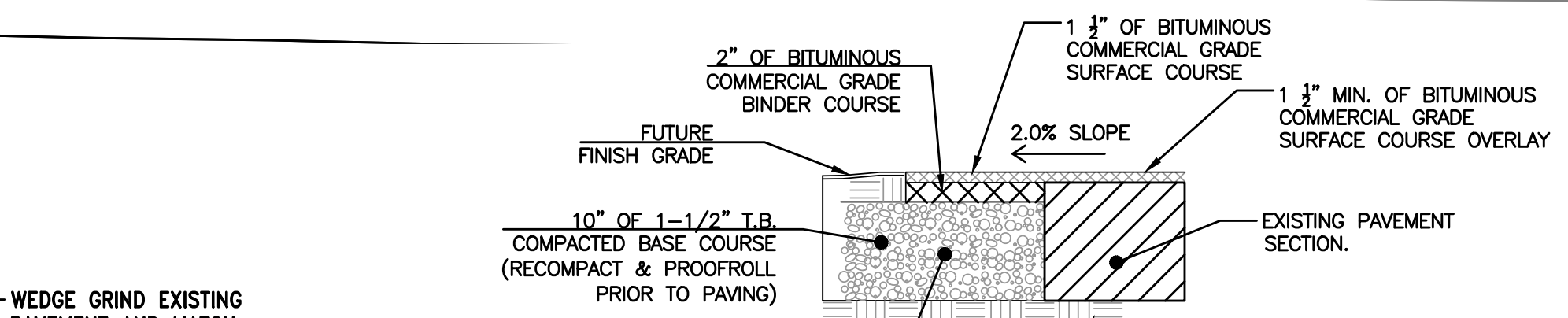
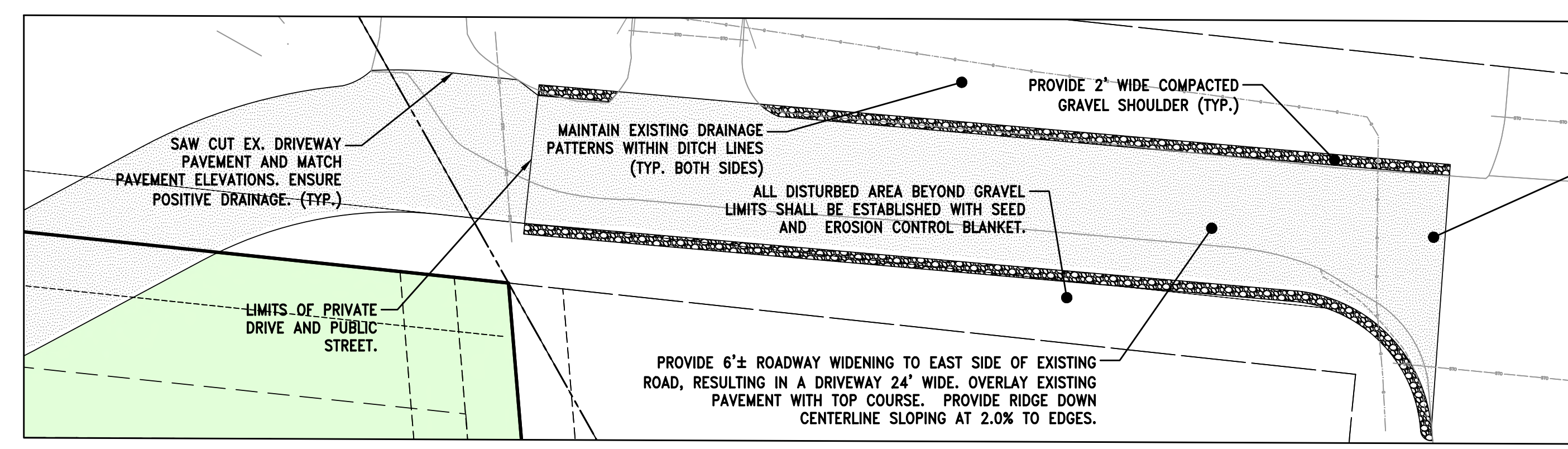
JOB NUMBER:
15025

DESCRIPTION:
OVERALL PROPOSED SITE PLAN

SHEET

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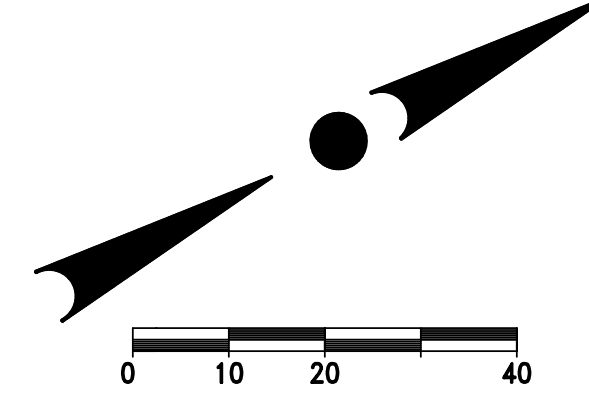
NOTE: ALL AGGREGATE PROVIDED MUST COMPLY WITH "SECTION 305 DENSE GRADED BASE" OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION

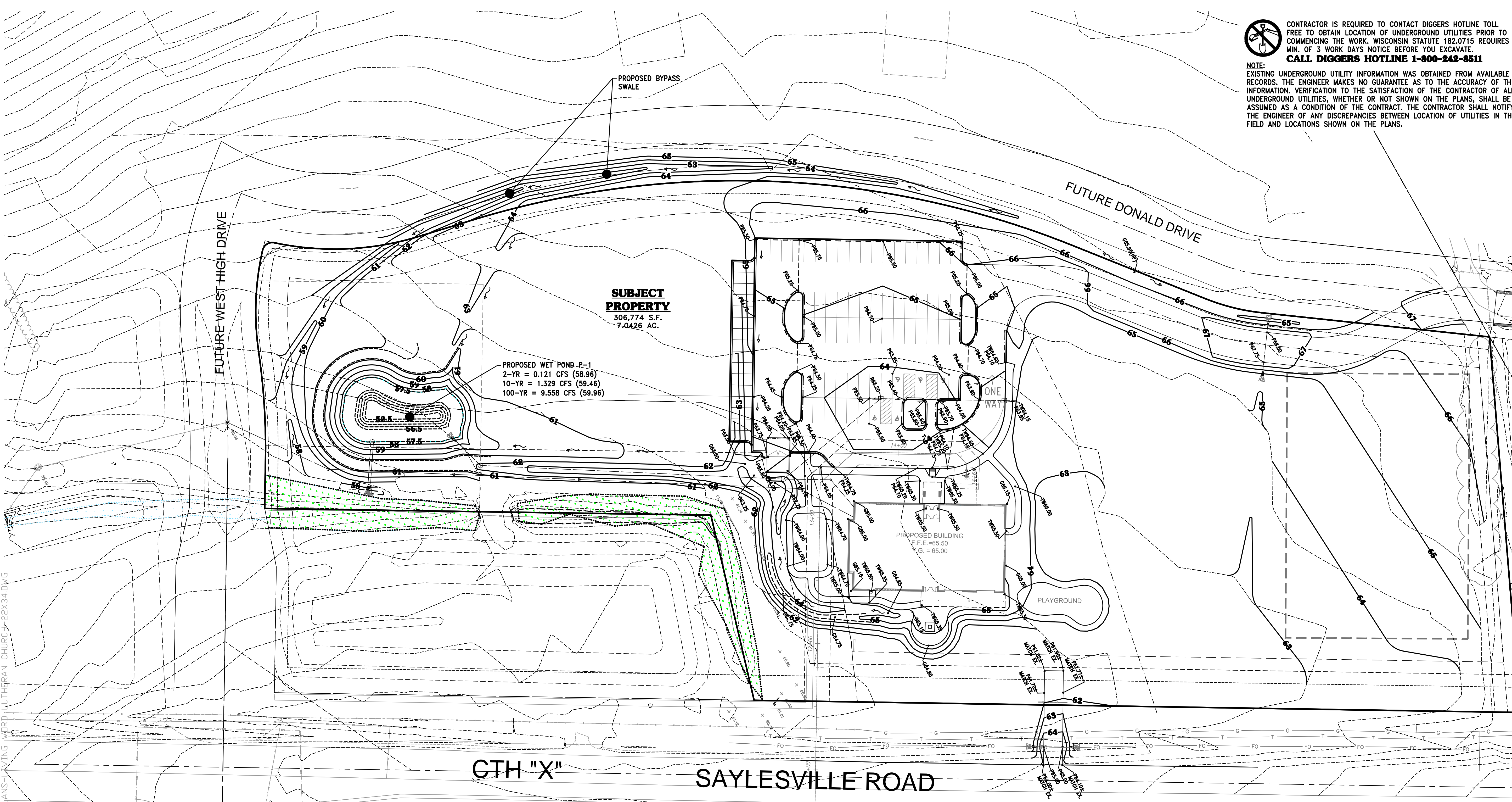
NOTE:

- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL VERIFY THE EXISTING BASE COURSE MATERIAL DEPTH AND PROVIDE MINIMUM CROSS-SECTION WHERE DEFICIENT.
- PROOFROLL BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
- STANDARD DUTY ASPHALT TO BE USED UNLESS OTHERWISE NOTED

LEGEND:

--- 905 ---	EXISTING CONTOUR
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	PROPOSED SANITARY SEWER
---	PROPOSED SANITARY MANHOLE
---	PROPOSED WATER MAIN
---	PROPOSED HYDRANT
---	PROPOSED WATER VALVE
---	PROPOSED STORM SEWER
---	PROPOSED STORM MANHOLE
---	PROPOSED STORM INLET
---	PROPOSED STORM END SECTION





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WISCONSIN
Matthew Paul
 PROFESSIONAL ENGINEER

TRIO
 CIVIL ENGINEERING

12660 W. NORTH AVE, BLDG D
 BROOKFIELD, WI 53005
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 FAX: (262) 790-1481
 EMAIL: jpuddiko@trioeng.com

PROJECT:
 LIVING WORD LUTHERAN CHURCH

CITY OF WAUKESHA, WISCONSIN
 BY: LIVING WORD LUTHERAN CHURCH
 2712 SUSSEX LANE
 WAUKESHA, WI 53188

REVISION HISTORY

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06/08/2018	INITIAL SUBMITTAL

DATE:
 MARCH 22, 2019

JOB NUMBER:
 15025

DESCRIPTION:
 PROPOSED GRADING PLAN

SHEET

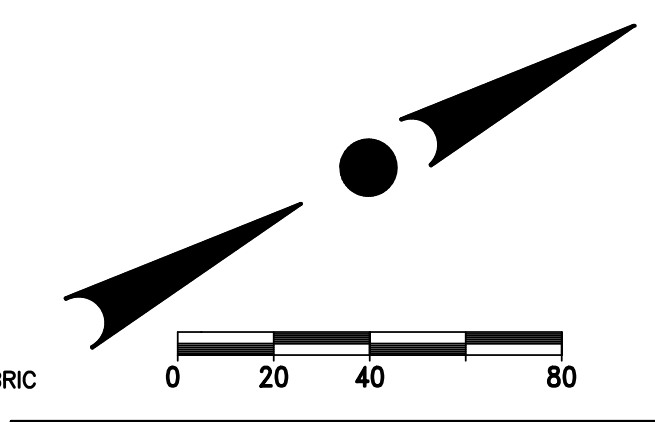
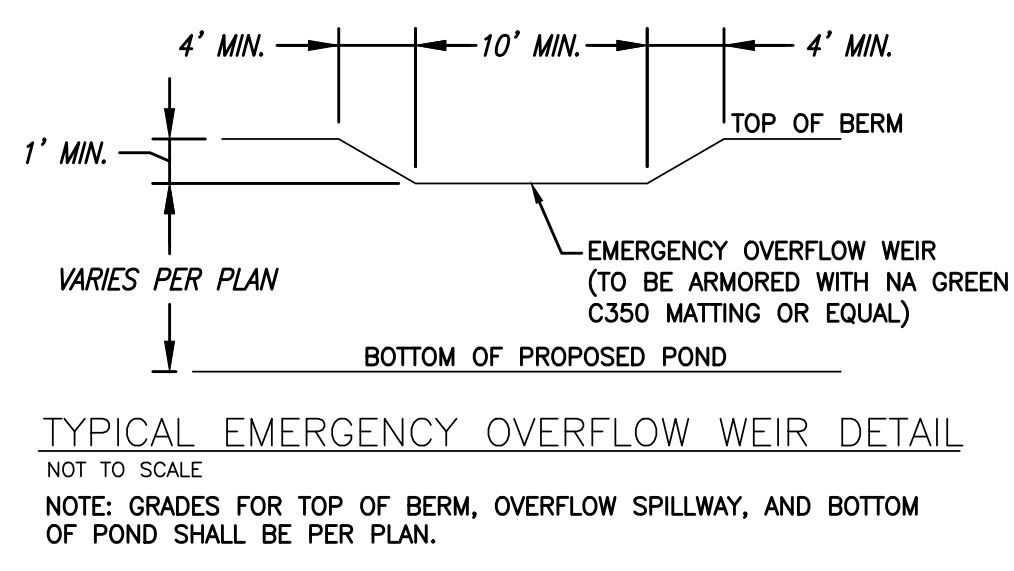
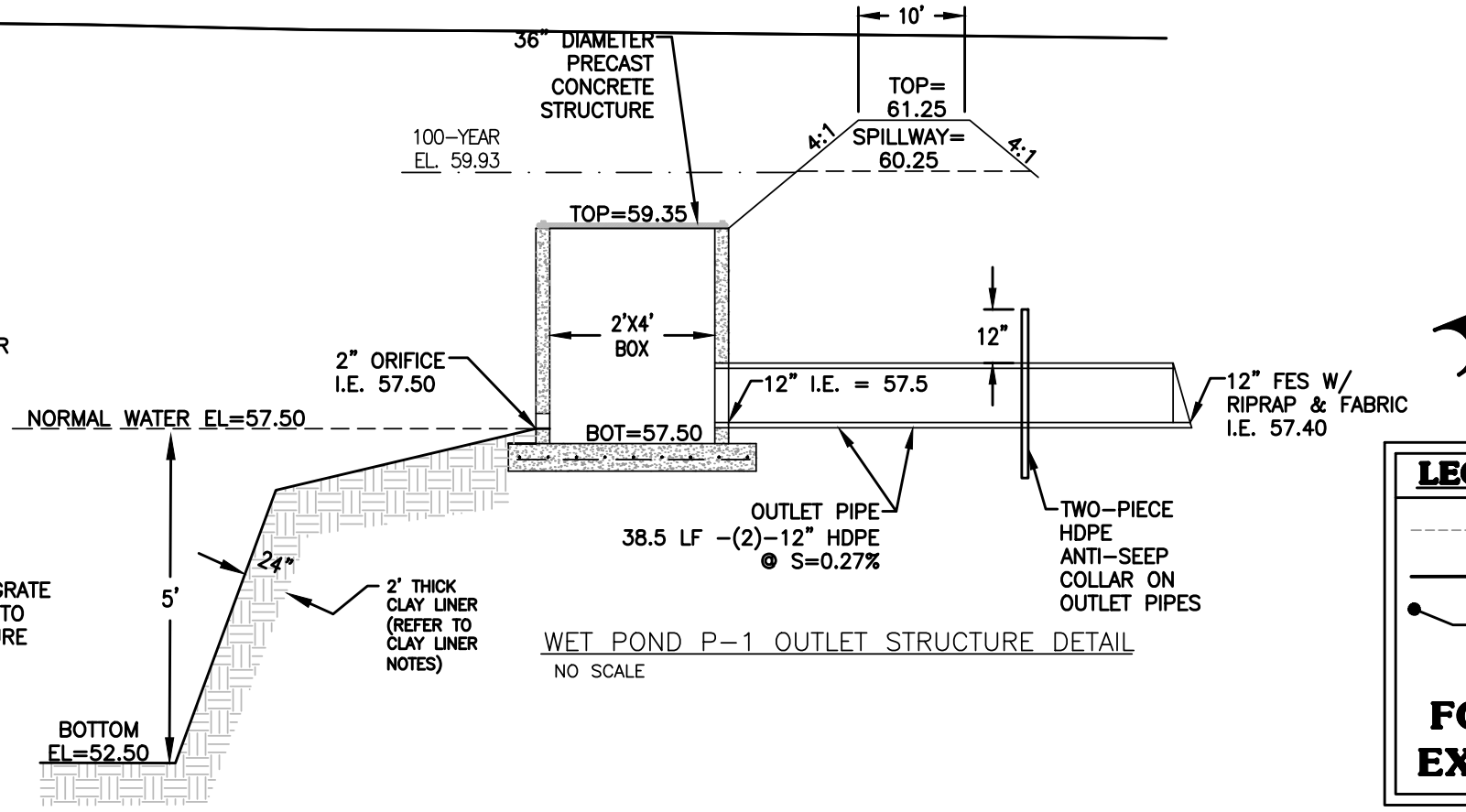
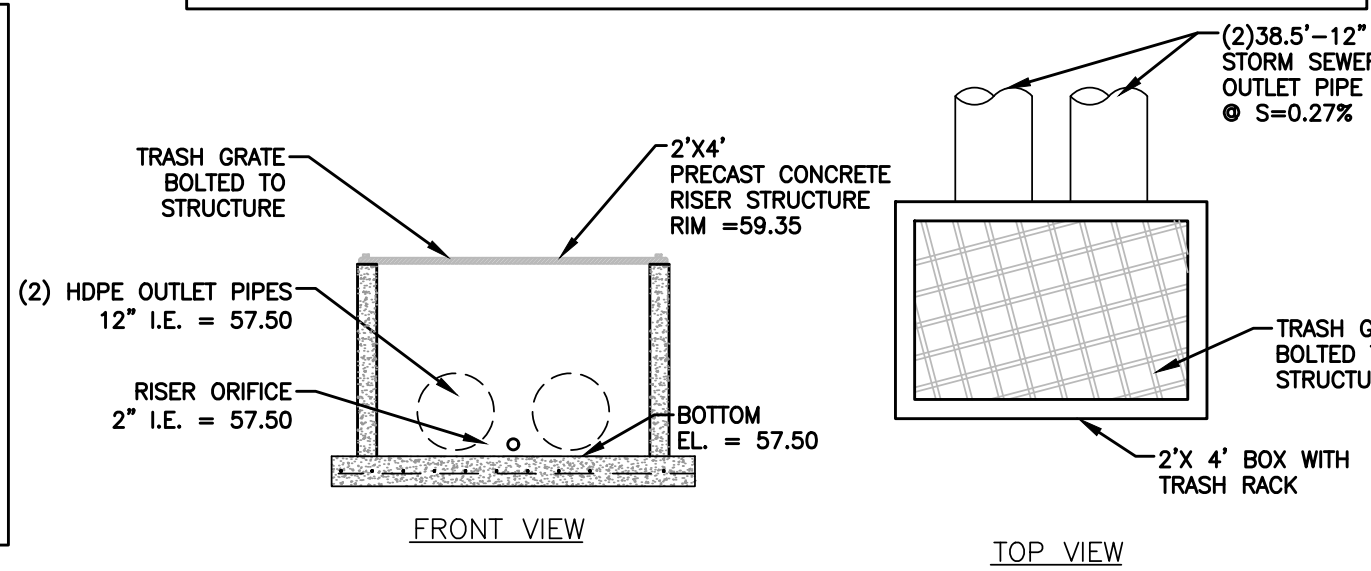
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POND NOTE:
 THE PROPOSED STORM WATER MANAGEMENT & POND DESIGN INCLUDED WITH IN THIS PLAN SET HAS BEEN DESIGNED FOR THE PROPOSED DEVELOPMENT SITE ONLY. FUTURE EXPANSION OR DEVELOPMENT WITH IN THE SITE WILL NEED TO INVOLVE THE MODIFICATION OF THE POND AND/OR OVERALL STORM WATER MANAGEMENT SYSTEM TO ENSURE PROPER STORM WATER MANAGEMENT IS ACHIEVED.

CLAY LINER NOTE:
 -2" THICK CLAY LINER IN ACCORDANCE WITH WDNR TECH. STD. 1001 TYPE B, AND SOILS REPORT.
 -CLAY LINER MATERIALS SHOULD BE COMPACTED TO A MINIMUM OF 90 TO 92% DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR (ASTM D1557)
 -IF PREDOMINANTLY GRANULAR TEXTURE SOILS AND/OR GROUNDWATER INFLOW IS ENCOUNTERED AT OR BELOW THE BOTTOM ELEVATION OF THE POND, A "SACRIFICIAL" LIFT OF CLAYEY FILL MAY BE REQUIRED TO BE PLACED ALONG THE SIDEWALLS AND BASE PRIOR TO COMMENCING WITH ACTUAL LINER PLACEMENT/CONSTRUCTION TO AID IN ATTAINING A SATISFACTORILY COMPACTED LINER SECTION. THE PLACEMENT OF A "SACRIFICIAL" LAYER IS PARTICULARLY BENEFICIAL IN CREATING A STABLE SUBBASE IN THE EVENT SLIGHT GROUNDWATER SEEPAGE OCCURS.
 - GEOTECHNICAL TESTING SHALL BE PERFORMED ON POTENTIAL CLAY LINER MATERIAL TO CONFIRM THAT SPECIFICATIONS ARE MET.
 -CLAY LINER SHALL EXTEND UP TO 2-YEAR WATER SURFACE ELEVATION. (EL. 58.96)

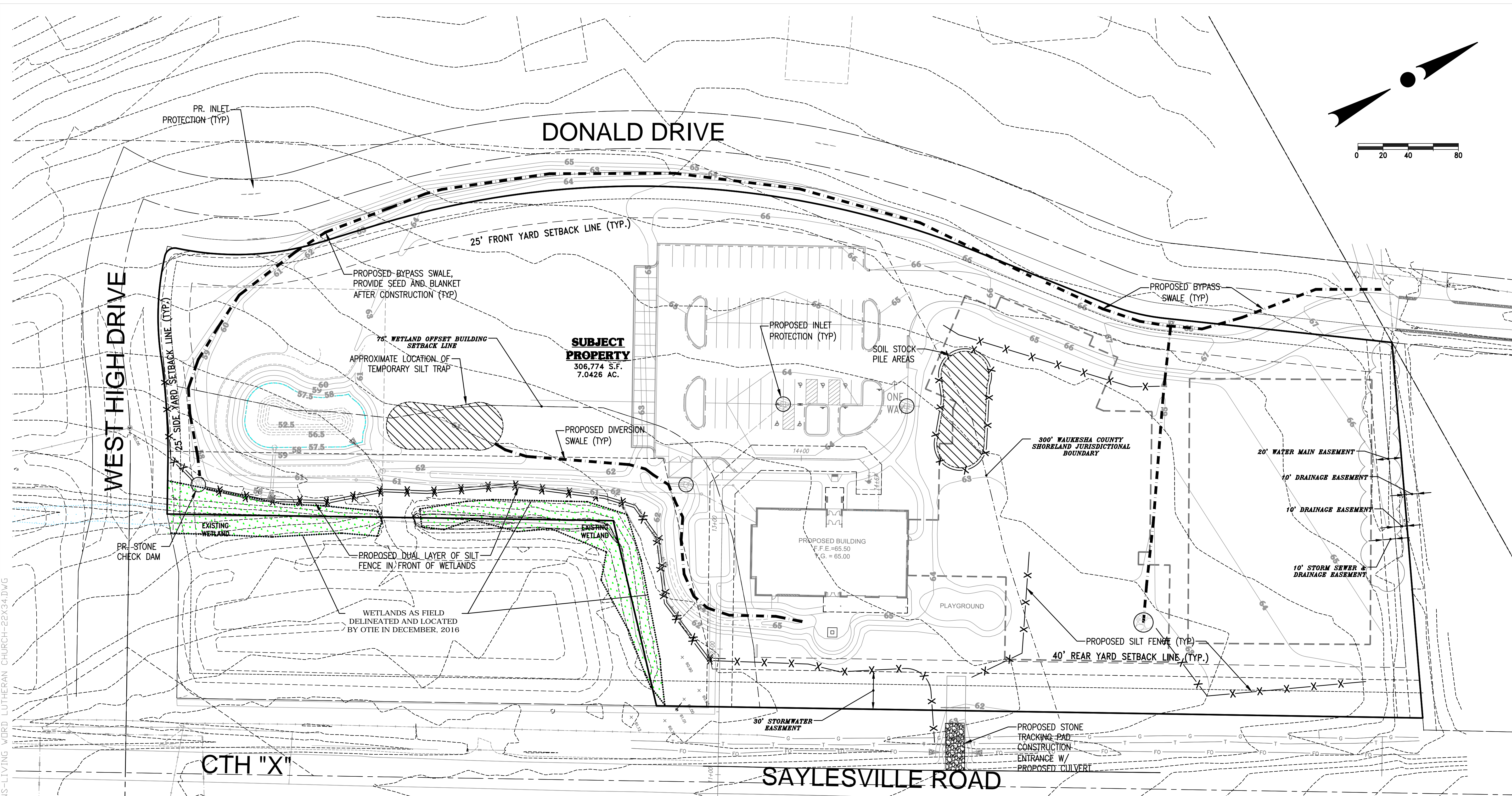
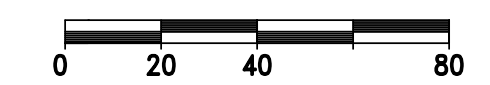
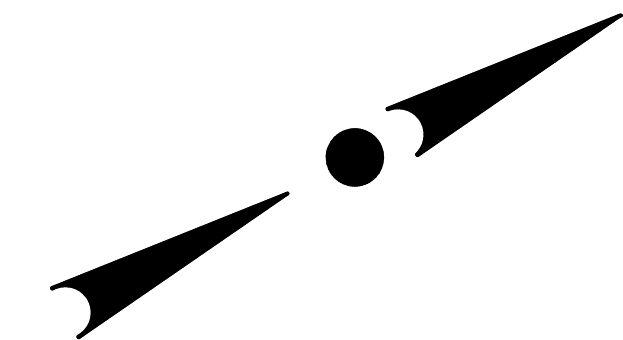


LEGEND:

- - - 905 - - EXISTING CONTOUR
- - - - - PROPOSED CONTOUR
- P812.80 - PROPOSED SPOT ELEVATION
- - PROPOSED FLOW ARROW
- - - - - PROPOSED YARD GRADE
- FG 900.0 - PROPOSED EXPOSURE GRADE
- EXP 895.0 - PROPOSED EXPOSURE GRADE



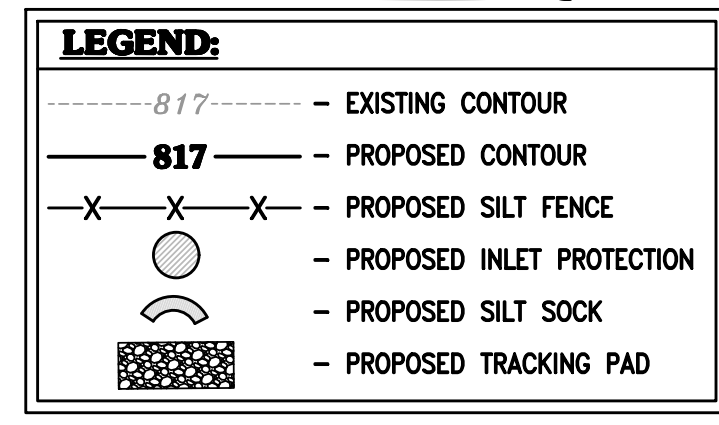
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EROSION SLOPE MATTING NOTE:
ALL SLOPES 25% OR STEEPER SHALL BE MATTED WITH A CLASS A TYPE I EROSION MAT PER WDNR TECH STANDARD 1052

WISCONSIN DEPARTMENT OF NATURAL RESOURCES, CONSERVATION PRACTICE STANDARD:
1052 - NON-CHANNEL EROSION MAT
1055 - SEDIMENT BALE BARRIER (NON-CHANNEL)
1056 - SILT FENCE
1057 - STONE TRACKING PAD AND TIRE WASHING
1058 - MULCHING FOR CONSTRUCTION SITES
1059 - TEMPORARY SEEDING
1060 - STORM DRAIN INLET PROTECTION FOR CONST. SITES
1061 - DEWATERING
1062 - DITCH CHECK
1066 - TEMPORARY DIVERSION BERM
1050 - LAND APPLICATION OF ANIONIC POLYACRYLAMIDE
1063 - SEDIMENT TRAP



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- CONSTRUCTION SEQUENCE PLAN**
1. INSTALL SILT FENCE (OR SILT SOCK), AS SHOWN ON PLANS, TRACKING PAD AT ENTRANCE AND ALL INLET PROTECTION PRIOR TO LAND DISTURBING ACTIVITIES.
 2. GRADE BYPASS SWALES PER PLAN. PROVIDE SEED AND BLANKET TEMPORARY STABILIZATION.
 3. GRADE POND FOR USE AS TEMPORARY SEDIMENT TRAP. PROVIDE STONE WEEPER OUTLET PER WDNR TECHNICAL SPECIFICATIONS.
 4. ROUGH GRADE SITE; TEMPORARY SEED AND STABILIZE AREAS PLANNED TO BE LEFT UNDISTURBED FOR > 7 DAYS.
 - 4.1. NOTE THAT WDNR LATE SEASON STABILIZATION MEASURES WILL BE REQUIRED FOR WORK OCCURRING AFTER OCTOBER 15-SPRING.
 5. CONSTRUCT BUILDINGS
 - 5.1. BUILDING CONSTRUCTION MAY BEGIN CONCURRENT WITH STEP 2 BUT AFTER THE EXISTING STRUCTURES HAVE BEEN RAZED.
 - 5.2. INSTALL SANITARY SEWER & WATER SERVICE LATERALS. PLUMBER SHALL OBTAIN ALL REQUIRED PERMITS FROM CITY AND STATE AND SHALL FOLLOW ALL PERMIT PROVISIONS.
 6. INSTALL STORM SEWER PIPING; PLUMBER SHALL SECURE ANY CITY PERMITS THAT MAY BE REQUIRED AND SHALL FOLLOW STATE DSPS COMM 382 PERMIT REQUIREMENTS FOR INSTALLATION.
 7. INSTALL NEW GAS/ELECTRIC/TELEPHONE UTILITIES PER PLANS BY OTHERS.
 8. FINISH GRADE SITE AND INSTALL PROPOSED PAVEMENT AND DRIVEWAY APPROACH.
 9. REMOVE ALL SEDIMENT ACCUMULATION FROM TEMPORARY SEDIMENT TRAP AND GRADE POND TO PROPOSED GRADES. INSTALL PROPOSED OUTLET STRUCTURE AND PIPE.
 10. SPREAD TOPSOIL, SEED, MULCH AND STABILIZE DISTURBED AND PROPOSED OPEN SPACE AREAS AS NOTED ON PLAN AND PER WDNR AND CITY REQUIREMENTS. TO BE COMPLETED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINAL GRADING.
 11. INSTALL LANDSCAPING PER PLAN.
 12. REMOVE ANY REMAINING SILT FENCE AND CONSTRUCTION FENCE, ONCE SITE HAS OBTAINED 70% STABILIZATION.
- NOTE THAT CONSTRUCTION MANAGER MAY MODIFY THIS SEQUENCE PLAN TO BEST SUIT THE NEEDS OF THE PROJECT.**

- EROSION CONTROL NOTES:**
1. 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.
 2. 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.
 3. IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
 4. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - A. DIVERT UPSTREAM RUNOFF FROM FLOWING THROUGH THE CONSTRUCTION SITE.
 - B. PROTECT DOWNSTREAM OR ADJACENT WATERWAYS AND WETLANDS WITH SILT FENCE.
 - C. DELAY STRIPPING TOPSOIL UNTIL REQUIRED FOR CONSTRUCTION.
 - D. PLACE SILT SOCKS/STRAW WATTLES OR EROSION CONTROL BALES IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - E. MAINTAIN EXISTING SEDIMENT BASIN AS DICTATED BY SITE CONDITIONS.
 - F. PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH SILT FENCE OR EROSION CONTROL BALES.
 - G. PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - H. PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - I. CONSTRUCTION OF TRACKING PAD TO CONSTRUCTION SITE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - J. PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - K. TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - L. ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15, MUST BE TEMPORARILY SEED AS OF THAT DATE.

- 5. TEMPORARY EROSION CONTROL MEASURES.**
- A. 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 SODDING, HAS BEEN ESTABLISHED.
 - B. 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.
6. ALL DISTURBANCE AREAS THAT REMAIN INACTIVE FOR SEVEN DAYS OR LONGER SHALL RECEIVE TEMPORARY SEEDING.
 7. TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.
 8. INSTALL SILT FENCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DETAILS
 9. ALL RIP RAP AT PIPE OUTLETS SHALL BE 3"x5" MEDIUM RIP RAP OVER TYPE R FABRIC PER WDOT SPECIFICATIONS UNLESS OTHERWISE DESIGNATED.
 10. EROSION CONTROL INSPECTION AND MAINTENANCE
 - A. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
 - B. REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.
 11. ALL AREAS TO BE SEEDING AND MULCHED SHALL USE WDOT SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WDOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.

PROJECT:
LIVING WORD LUTHERAN CHURCH

CITY OF WALKESHA, WISCONSIN
BY: LIVING WORD LUTHERAN CHURCH
2712 SUSSEX LANE
WALKESHA, WI 53188

REVISION HISTORY

DATE	DESCRIPTION
03/22/2019	SITE PLAN REV.
02/07/2019	SITE PLAN REV.
08/28/2018	DSPS SUBMITTAL
06/06/2018	INITIAL SUBMITTAL

DATE:
MARCH 22, 2019

JOB NUMBER:
15025

DESCRIPTION:
PROPOSED EROSION CONTROL PLAN

SHEET

C1.3

H:\C900\990\15025-01\CONSTRUCTION PLANS\CIVIL PLANS\LIVING WORD LUTHERAN CHURCH-2X34.DWG



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PROJECT:
LIVING WORD LUTHERAN CHURCH

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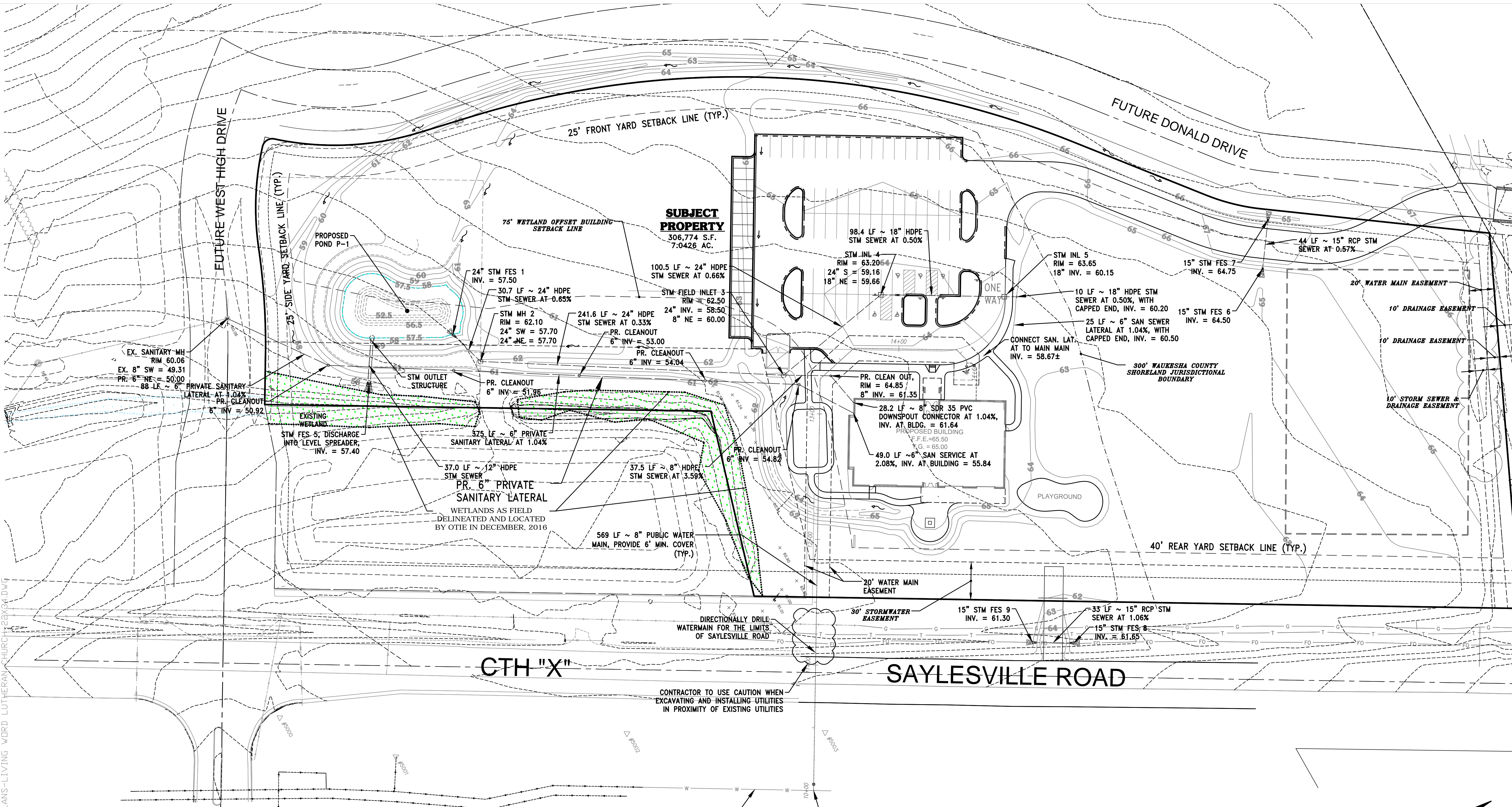
DATE:
MARCH 22, 2019

JOB NUMBER:
15025

DESCRIPTION:
PROPOSED UTILITY PLAN

SHEET

C1.4



H:\C900\990\15025-01\CONSTRUCTION PLANS\CIVIL PLANS\LIVING WORD LUTHERAN CHURCH\123X84.DWG

UTILITY NOTE:
EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATION OF EXISTING UTILITIES IN CLOSE PROXIMITY TO PROPOSED UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION OF PROPOSED UTILITY. IF CONFLICTS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER PRIOR TO INSTALLING PROPOSED UTILITIES.

SANITARY SEWER
• ALL PVC SEWER PIPE SHALL MEET THE REQUIREMENTS SET FORTH IN SECTION 8.10.0 (SSSWCW).
• ALL SANITARY SEWER LATERALS (OUTSIDE OF BUILDINGS) SHALL BE MADE OF GASKETED PVC FITTINGS MEETING ASTM D-3034, SDR 35.
• TRACER WIRE IS REQUIRED FOR ALL SANITARY SEWER LATERALS.

TRACER WIRE NOTE
• CONTRACTOR SHALL INSTALL PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE) PER SPS 382.30(1)(H). 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. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET.

WATER MAIN NOTES
• ALL 8" WATERMAIN CONSTRUCTED AS PART OF THIS PLAN THAT FALLS WITHIN THE LISBON RD. R.O.W. AND/OR EASEMENTS SHALL BE DUCTILE IRON.
• ALL PVC WATERMAIN CONSTRUCTED AS PART OF THIS PLAN SHALL BE PVC, C-900, CLASS 150 (DR18), UNLESS OTHERWISE NOTED. PVC PIPE SHALL HAVE PUSH-ON JOINTS WITH RUBBER GASKET.
• HYDRANTS SHALL BE SET AT 2 FT. BEHIND THE BACK OF CURB, WITH THE NOZZLE ELEVATION 20 INCHES ABOVE TOP OF CURB.
• ALL VALVES SHALL BE LOCATED 3 FT. FROM FITTINGS.
• ALL WATERMANS (AND SERVICES) CALLED FOR ON THESE PLANS ARE TO BE INSTALLED WITH CLASS "B" BEDDING AS SPECIFIED IN CH. 4.3.0, LAYING OF WATERMAIN, AND FILE NO. 36, PART VII (SSSWCW). ALL WATERMAIN INSTALLED WITHIN THE VILLAGE OF UNION GROVE RIGHT OF WAY SHALL BE BEDDED IN SAND.

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.

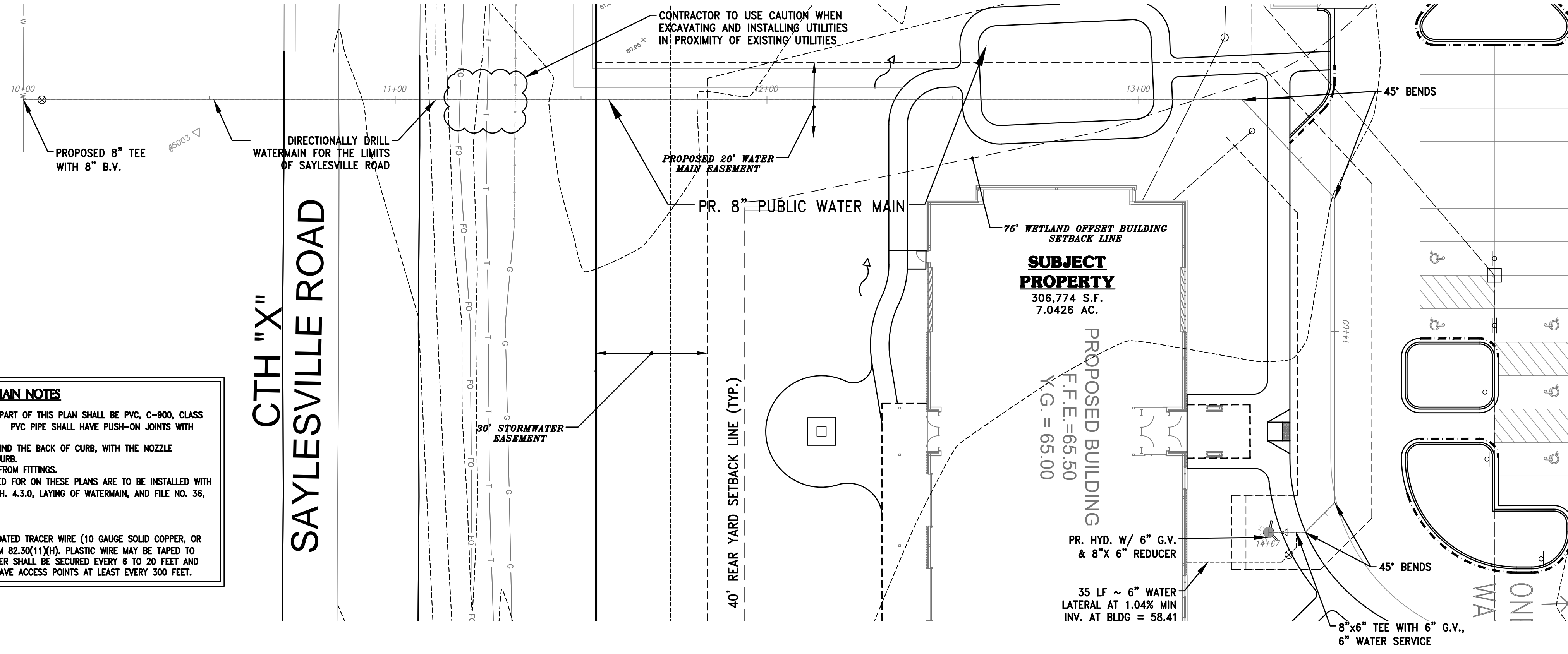
STORM SEWER
• UNLESS OTHERWISE NOTED, HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE SMOOTH-WALL INTERIOR CORRUGATED PIPE & SHALL BE AS MANUFACTURED BY ADS OR EQUAL, WITH WATER TIGHT JOINTS, HAVING A MANIP "N" VALUE OF 0.010, OR EQUAL.
• ALL PVC STORM SEWER PIPE SHALL BE ASTM D-3034, SDR 35. SCHEDULE 40 PIPE SHALL BE INSTALLED FOR ALL PIPE WITHIN THE PROPOSED BUILDING FOOTPRINT, PER MANUFACTURER SPECIFICATIONS.
• ALL STORM SEWER WITHIN THE RIGHT OF WAY SHALL BE R.C.P. MEETING SECTION 8.6.0 (SSSWCW) AND BE RUBBER GASKETED MEETING THE REQUIREMENTS SET FORTH IN WSWW CHAPTER 6.6.0.
• 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 FOR STORM MAINS OF 24" DIAMETER OR SMALLER WITH NEENAH R-1861 FRAME & VENTED LID.
• STORM INLETS IN VERTICAL FACE CURB SHALL USE FRAMES & GRATES AS SPECIFIED ON PLANS AND/OR ON DETAILS.
• CONNECT TO BUILDING STORM SEWER CONVEYANCE PIPING PER SPS 382 SPECIFICATIONS AND REQUIREMENTS.

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.

LEGEND:

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED FLOW ARROW
	PROPOSED YARD GRADE
	PROPOSED EXPOSURE GRADE

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WATER MAIN NOTES

WATERMAIN

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- HYDRANTS SHALL BE SET AT 2 FT. BEHIND THE BACK OF CURB, WITH THE NOZZLE ELEVATION 20 INCHES ABOVE TOP OF CURB.
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TRACER WIRE NOTE

- CONTRACTOR SHALL INSTALL PLASTIC COATED TRACER WIRE (10 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.

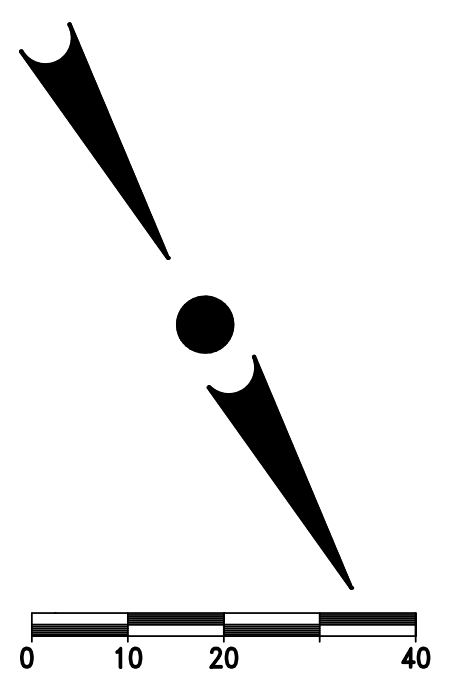
LEGEND:

---	EXISTING CONTOUR
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING STORM SEWER
---	PROPOSED SANITARY SEWER
○	PROPOSED SANITARY MANHOLE
○	PROPOSED WATER MAIN
○	PROPOSED HYDRANT
○	PROPOSED WATER VALVE
---	PROPOSED STORM SEWER
○	PROPOSED STORM MANHOLE
○	PROPOSED STORM INLET
---	PROPOSED STORM END SECTION

NOTE: ROADWAY AND UTILITIES SHOWN BEYOND THE SUBJECT PROPERTY ARE PROPOSED IMPROVEMENTS FOR THE SIEPMANN MONARCH OVERLOOK SUBDIVISION. (CURRENTLY UNDER REVIEW WITH CITY)

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**

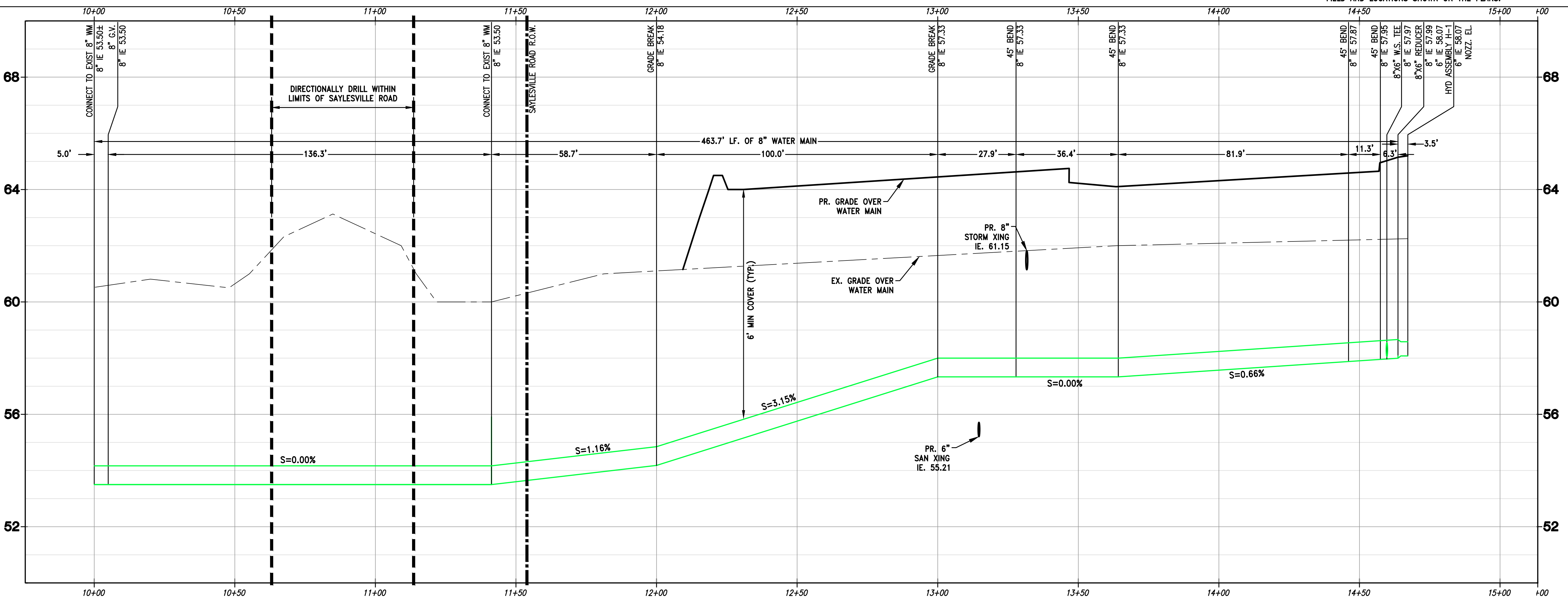
NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION 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
Matthew Paul
 PROFESSIONAL ENGINEER

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PROJECT:
 LIVING WORD LUTHERAN CHURCH

CITY OF WALKESHA, WISCONSIN
BY: LIVING WORD LUTHERAN CHURCH
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JOB NUMBER:
 15025

DESCRIPTION:
 PROPOSED
 WATER MAIN PLAN
 AND PROFILE

SHEET

C1.5

COMPLIANT DOCUMENTATION:

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 (SSWCW)
- THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
- WDMR STORMWATER RUNOFF TECHNICAL STANDARDS.
- WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
- CITY OF WAUKESHA MUNICIPAL CODE, LATEST EDITION.
- CITY OF WAUKESHA STANDARDS AND SPECIFICATIONS.

CONTRACTOR RESPONSIBILITY:

-EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEY. 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.

-THE LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

-THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR(S) TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL REQUIRED PERMITS, UNLESS OTHERWISE SPECIFIED.

-THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AS CONSTRUCTION ACTIVITIES ARE COMPLETED TO PROVIDE CONSTRUCTION OVERSIGHT AND INSPECTION IN ACCORDANCE WITH THE CONSTRUCTION INSPECTION PLAN.

-THE OWNER WILL PROVIDE ALL SURVEYING AND CONSTRUCTION STAKING FOR THIS CONTRACT. THE CONTRACTOR SHALL EXERCISE CARE AND DILIGENCE IN PROTECTING THE SAME. ANY EXPENSE INCURRED FOR ADDITIONAL RESTAKING CAUSED BY CONTRACTOR'S NEGLIGENCE MAY BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM THE SUMS DUE HIM UNDER THIS CONTRACT.

-ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

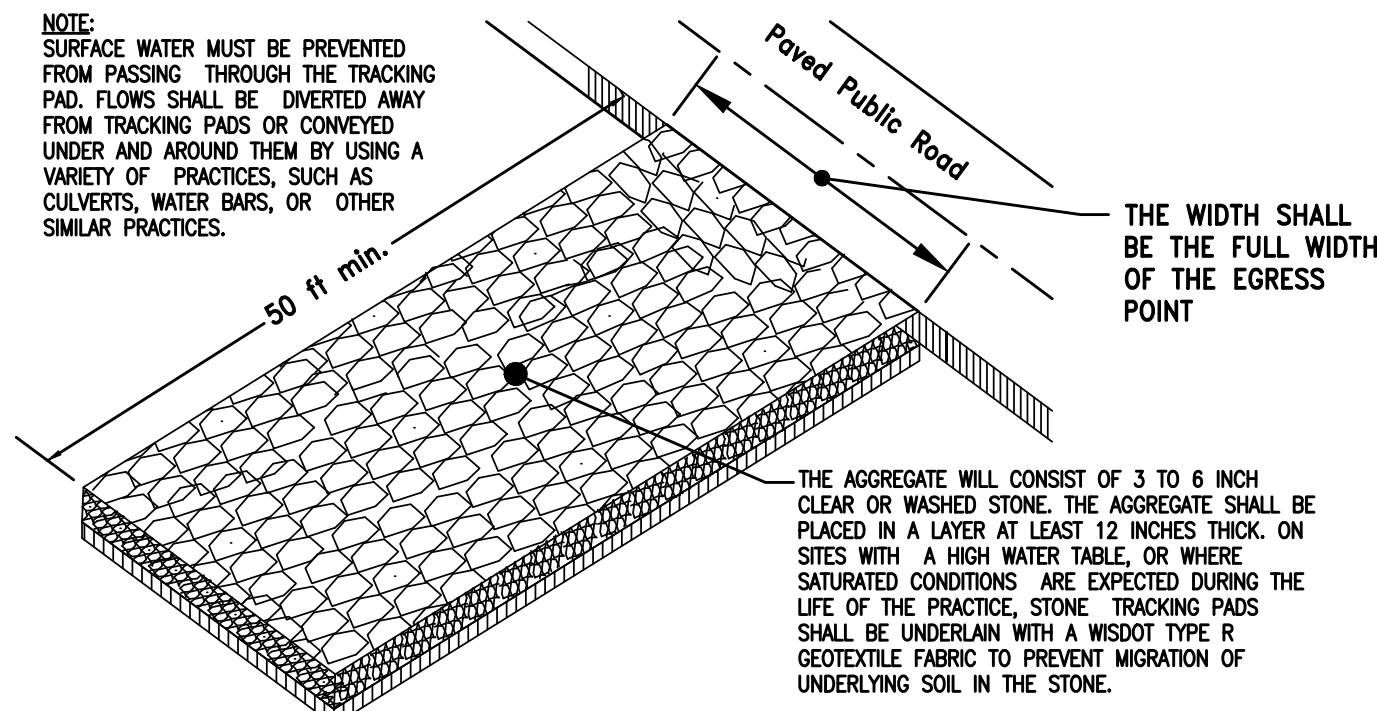
-CONTRACTOR SHALL BE PREPARED FOR DEWATERING CONDITIONS BY HAVING APPROPRIATE PUMPS AND FILTER BAGS ONSITE FOR DEWATERING AND REMOVAL OF ALL SEDIMENT PER CITY, COUNTY AND WDMR REQUIREMENTS PER TECHNICAL STANDARD 1061.

TRAFFIC CONTROL:

-PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SHALL BE LIMITED TO THE GRAVEL ENTRANCE TO THE PROPERTY.

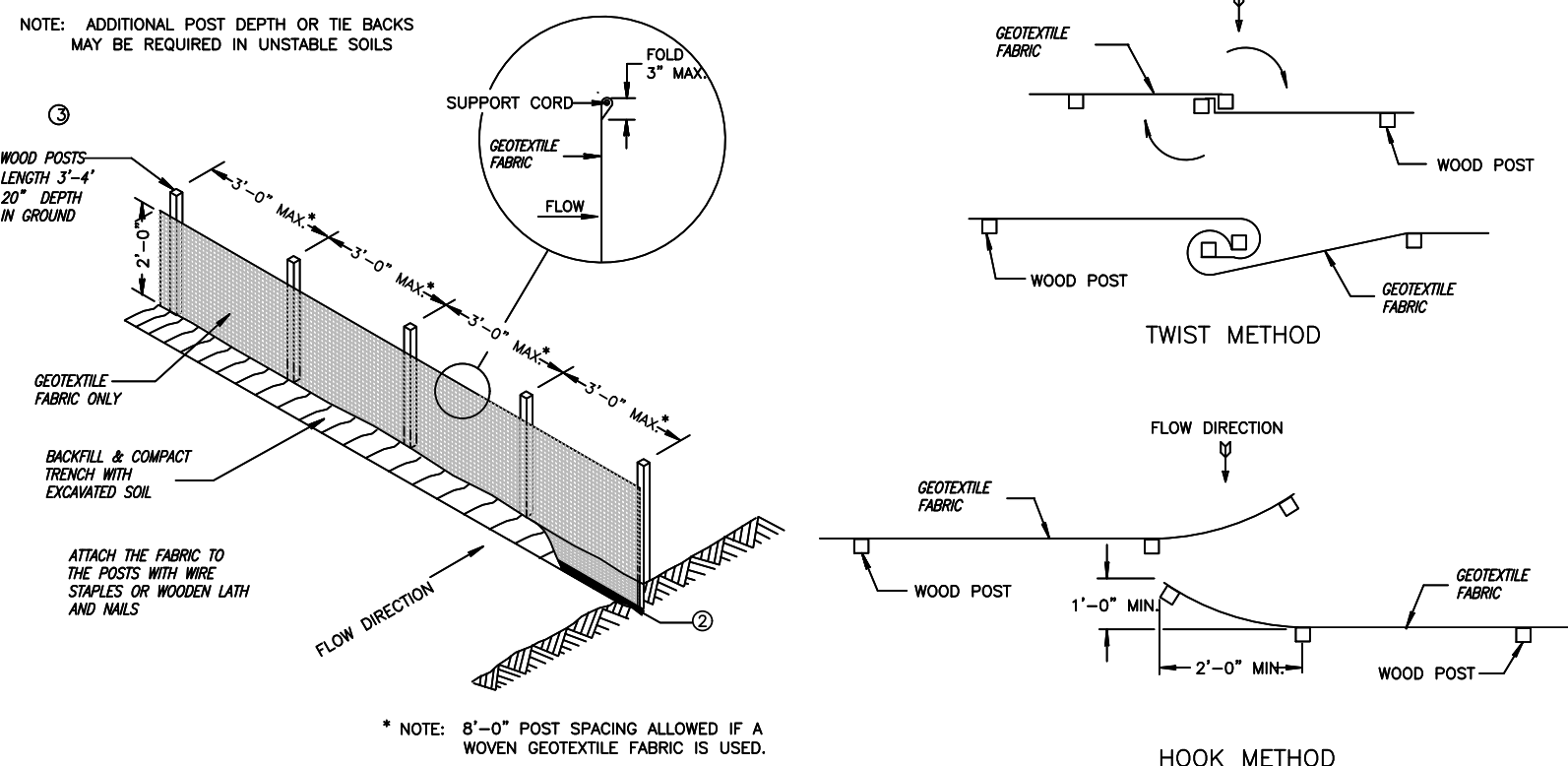
CONSTRUCTION NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, STATE OF WISCONSIN, LATEST EDITION, UNLESS OTHERWISE CALLED FOR ON THE PLANS, SPECIFICATIONS OR SPECIAL PROVISIONS.
2. ALL EROSION CONTROL MEASURES SPECIFIED ON THIS PLAN SHALL MEET THE DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS AS SET FORTH IN THE DEPARTMENT OF NATURAL RESOURCES WISCONSIN BEST MANAGEMENT PRACTICE HANDBOOK AND TECHNICAL STANDARDS.
3. ALL EROSION CONTROL DEVICES (I.E., SILT FENCE, SILT SOCK, GRAVEL ENTRANCE, SILTATION BASIN, ETC.), SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING OR UTILITY CONSTRUCTION. GRADING ASSOCIATED WITH INSTALLATION OF EROSION OR SEDIMENTARY PRACTICES MAY OCCUR CONCURRENTLY WITH INSTALLATION OF PRACTICES.
4. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. REFER TO THE CONSTRUCTION SEQUENCING PLAN FOR ADDITIONAL INFORMATION.
5. THE OWNER IS RESPONSIBLE FOR OBTAINING A GRADING AND/OR EROSION CONTROL PERMIT (OR ANY OTHER APPLICABLE PERMITS) PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE, ALL TOWN UTILITY DEPARTMENTS, AND GOVERNMENT UNITS WHOSE PROPERTY MAY BE AFFECTED BY THE CONTRACTOR'S OPERATIONS AT LEAST THREE (3) DAYS BEFORE BREAKING GROUND. DIGGERS HOTLINE NUMBER IS 1-800-242-8511.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT AND PUBLIC ROADWAYS DURING CONSTRUCTION PER THE REQUIREMENTS SET FORTH BY THE LOCAL AND COUNTY AGENCIES. STREETS SHALL BE KEPT FREE OF SILT OR DIRT TRACKED FROM AREAS UNDER CONSTRUCTION BY SWEEPING OR OTHER APPROPRIATE MEASURES. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING OR OTHER APPROPRIATE METHODS.
8. INLETS SHALL BE PROTECTED WITH AN EROSION BARRIER MEETING WDMR TECHNICAL STANDARD 1060 UNTIL THE AREA HAS BEEN STABILIZED. FREQUENT INSPECTION AND TIMELY MAINTENANCE IS REQUIRED.
9. UPON COMPLETION OF THE WORK AS SPECIFIED, RESPREAD A MINIMUM OF FOUR (4") INCHES OF SALVAGED TOPSOIL OVER ALL DISTURBED AREAS AND PROVIDE SEED, FERTILIZER AND MULCH PER THE STANDARD SPECIFICATIONS.
10. ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN SEVEN DAYS AFTER BEING DISTURBED USING THE SEED MIX SPECIFIED ON THE PLANS.
11. ALL EROSION CONTROL DEVICES SHALL BE ROUTINELY INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND REPAIR BMP'S AS NEEDED.
12. REFER TO EROSION CONTROL PLAN FOR SITE EROSION CONTROL ELEMENTS, REQUIREMENTS.



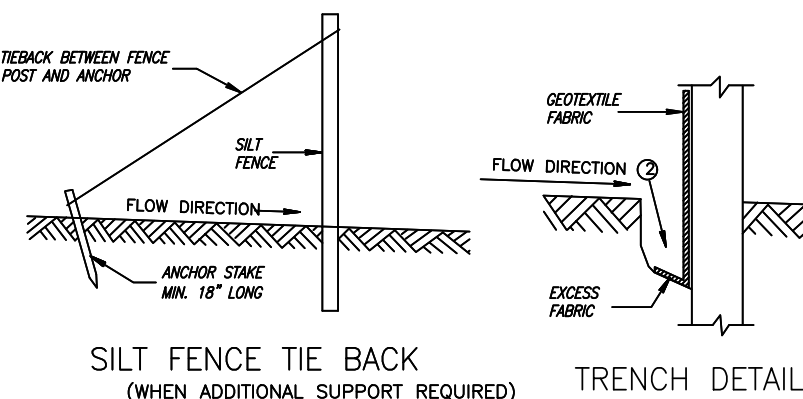
CONSTRUCTION ENTRANCE DETAIL

NO SCALE



SILT FENCE

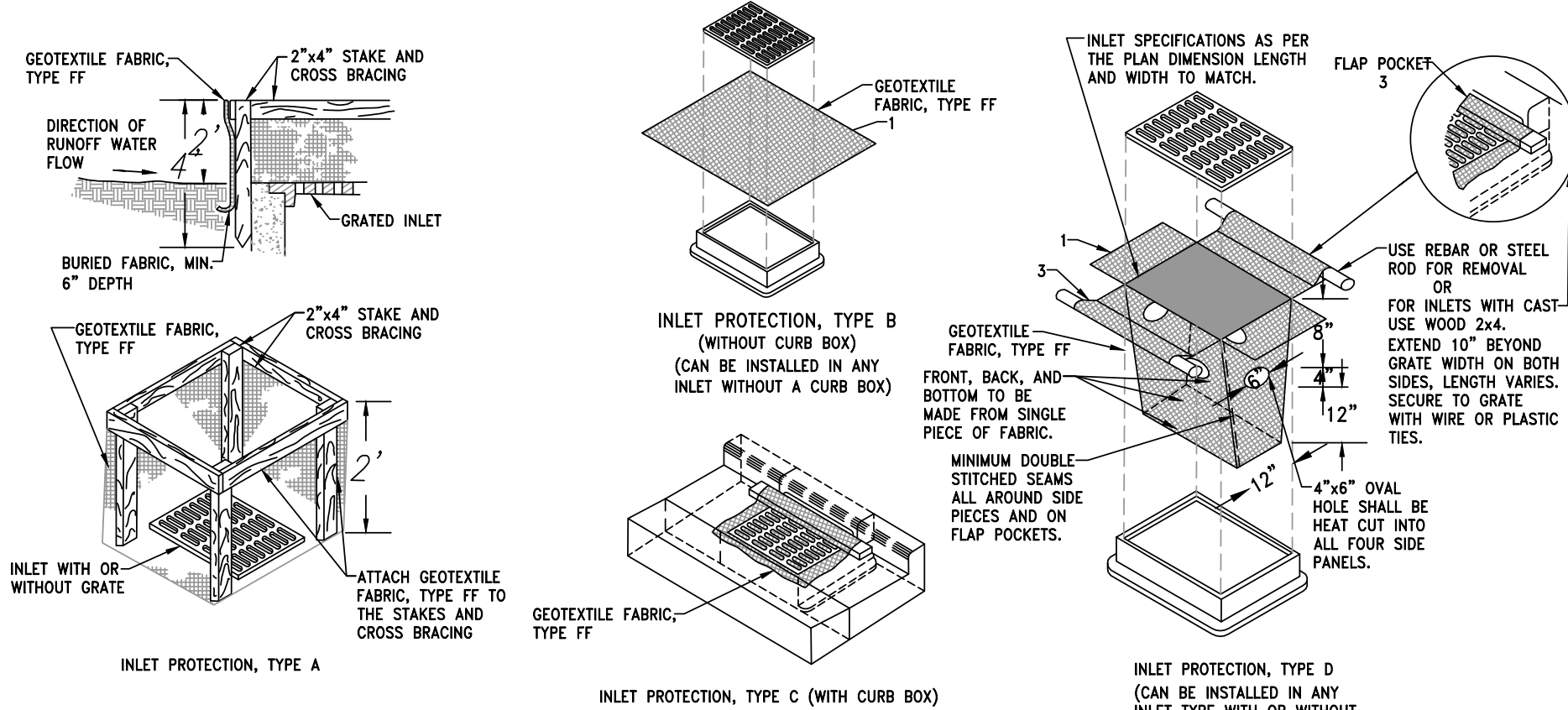
JOINING TWO LENGTHS OF SILT FENCE



SILT FENCE TIE BACK

SILT FENCE INSTALLATION DETAIL

NO SCALE



GENERAL NOTES:

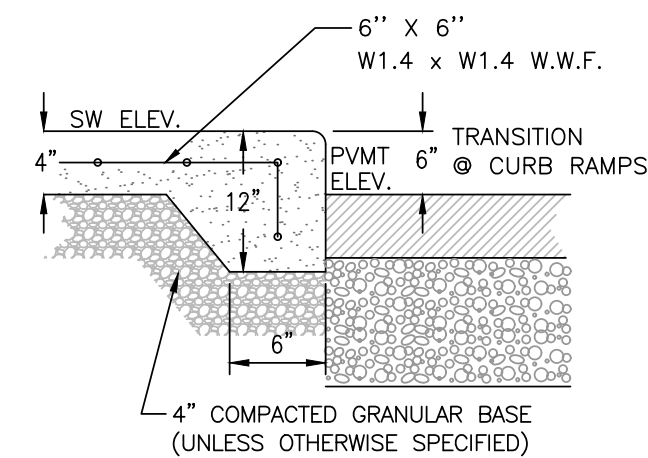
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

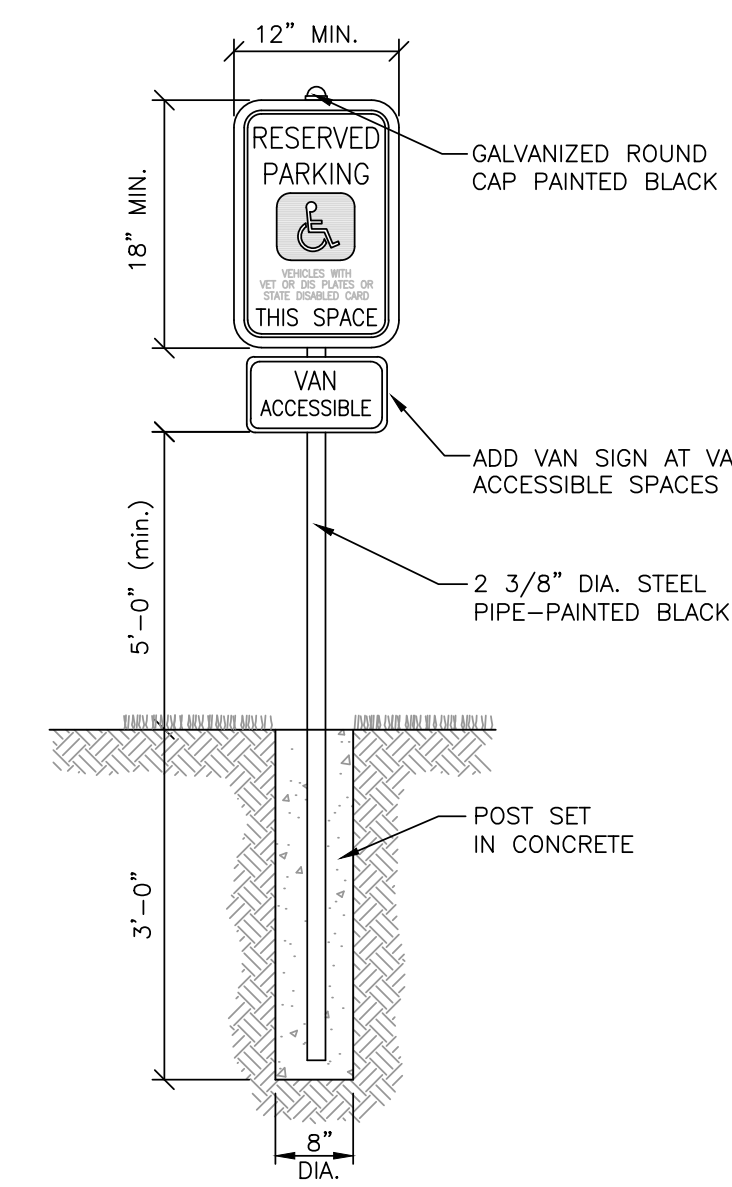
INLET PROTECTION DETAIL

NO SCALE



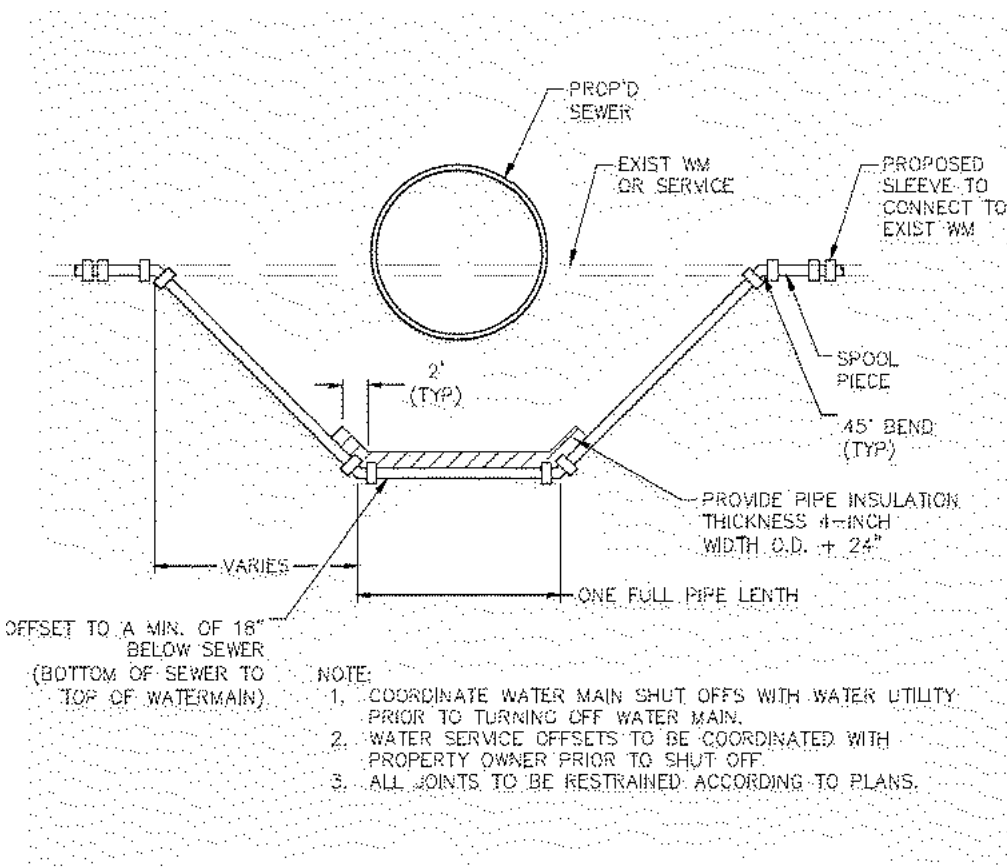
INTEGRAL SIDEWALK & BARRIER CURB

(WHERE SIDEWALK ADJOINS DRIVEWAYS/PARKING AREAS) NO SCALE



HANDICAP SIGNAGE DETAIL

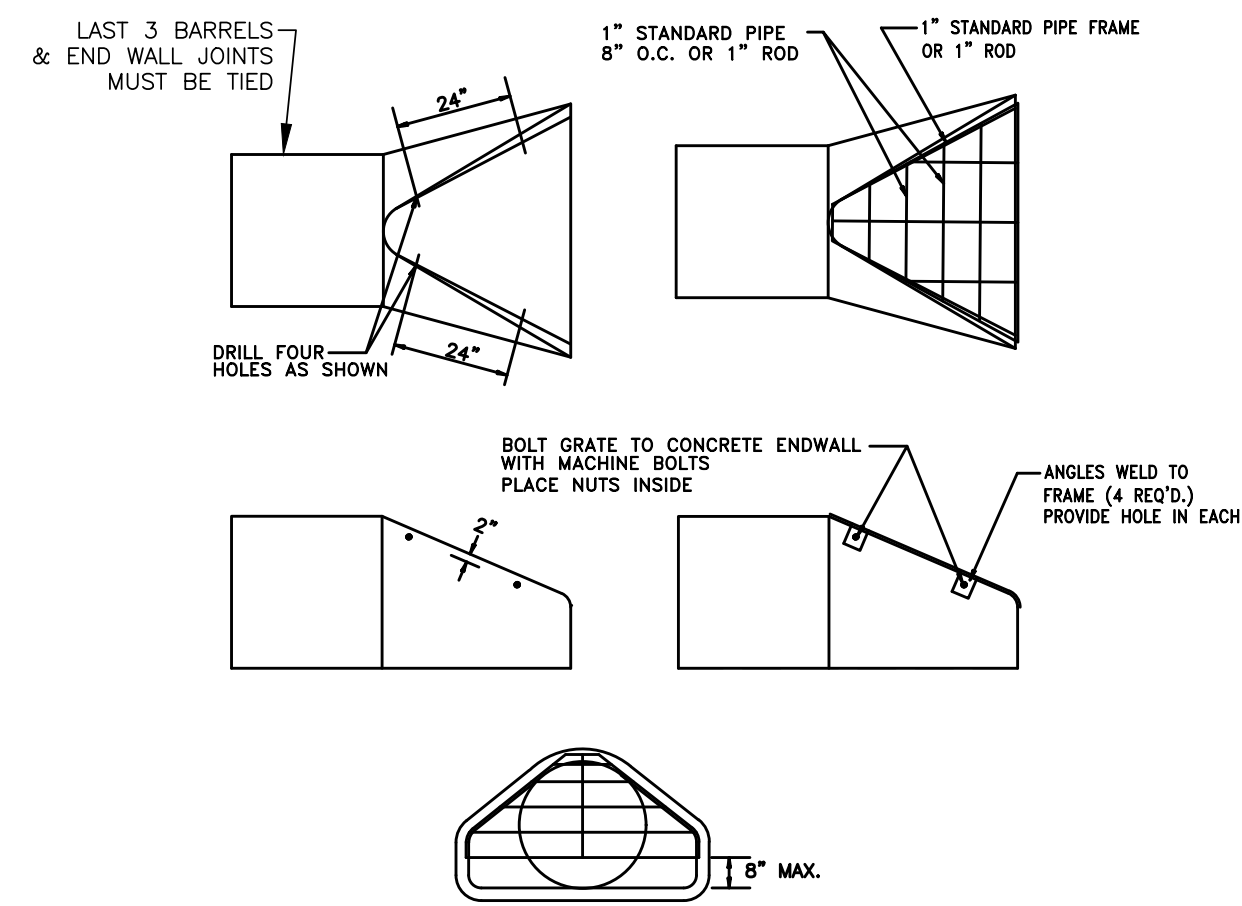
NO SCALE



TYPICAL WATER MAIN/SERVICE OFFSET

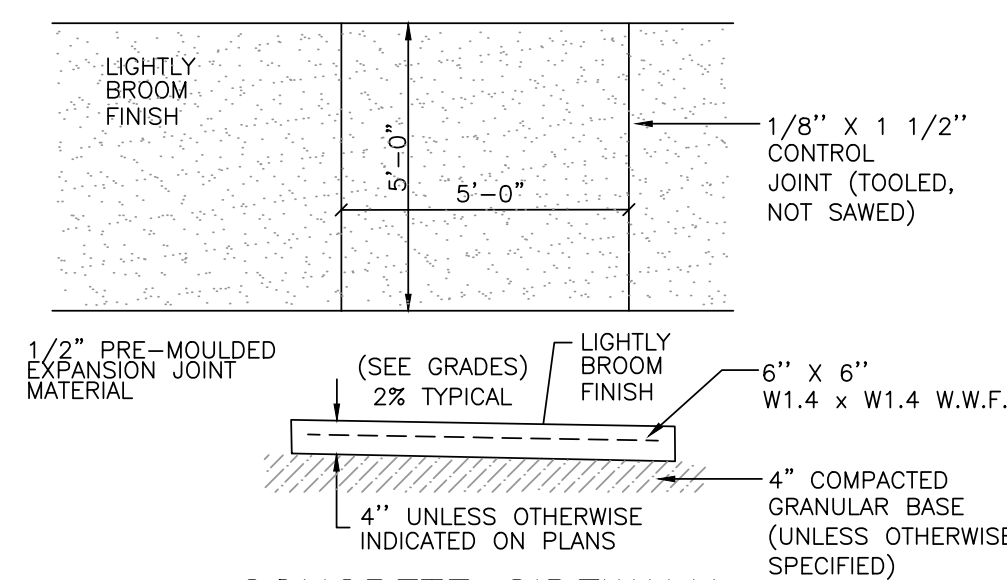
NO SCALE

EXHIBIT WM-04



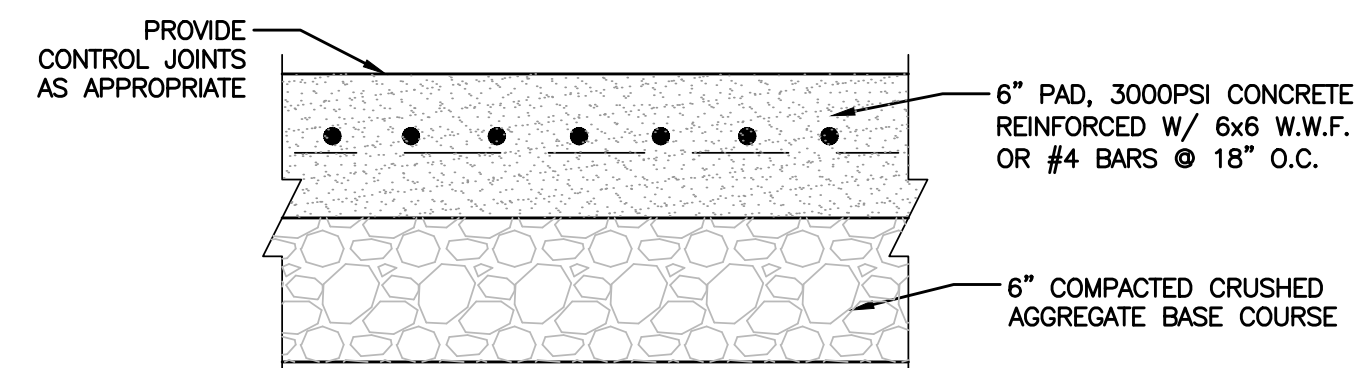
PIPE GRATE DETAIL

NO SCALE



CONCRETE SIDEWALK

NO SCALE



CONCRETE DUMPSTER PAD REQUIREMENT

NO SCALE



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PROJECT:
LIVING WORD LUTHERAN CHURCH

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DESCRIPTION:
CONSTRUCTION NOTES & DETAILS

SHEET

C1.6

H:\C9000\990015025-01\CONSTRUCTION PLANS\CIVIL PLANS-LIVING WORD LUTHERAN CHURCH-22X34.DWG



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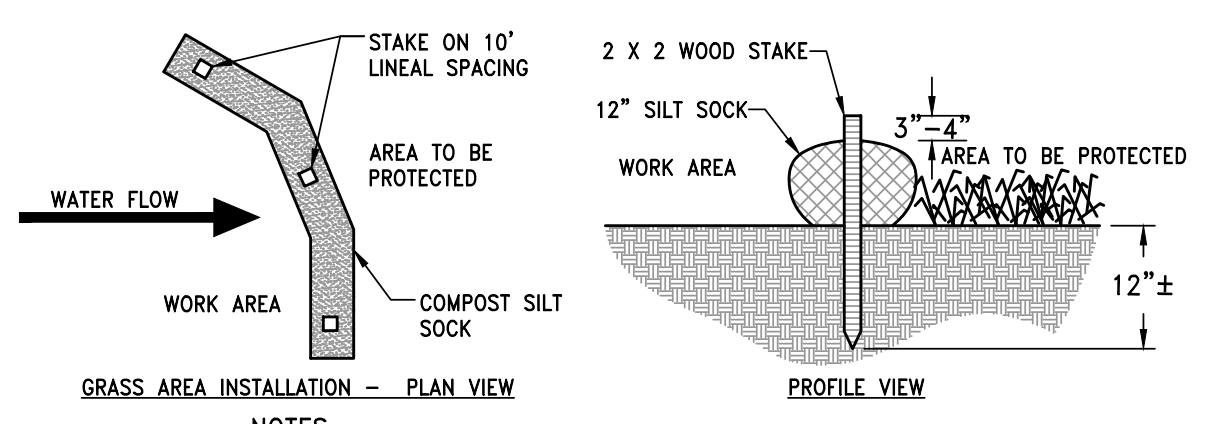
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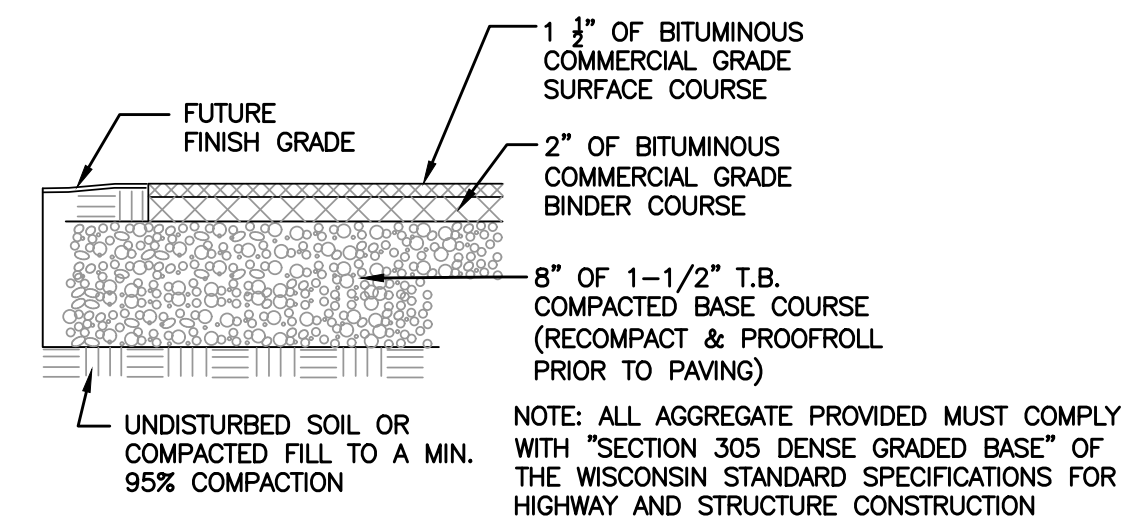
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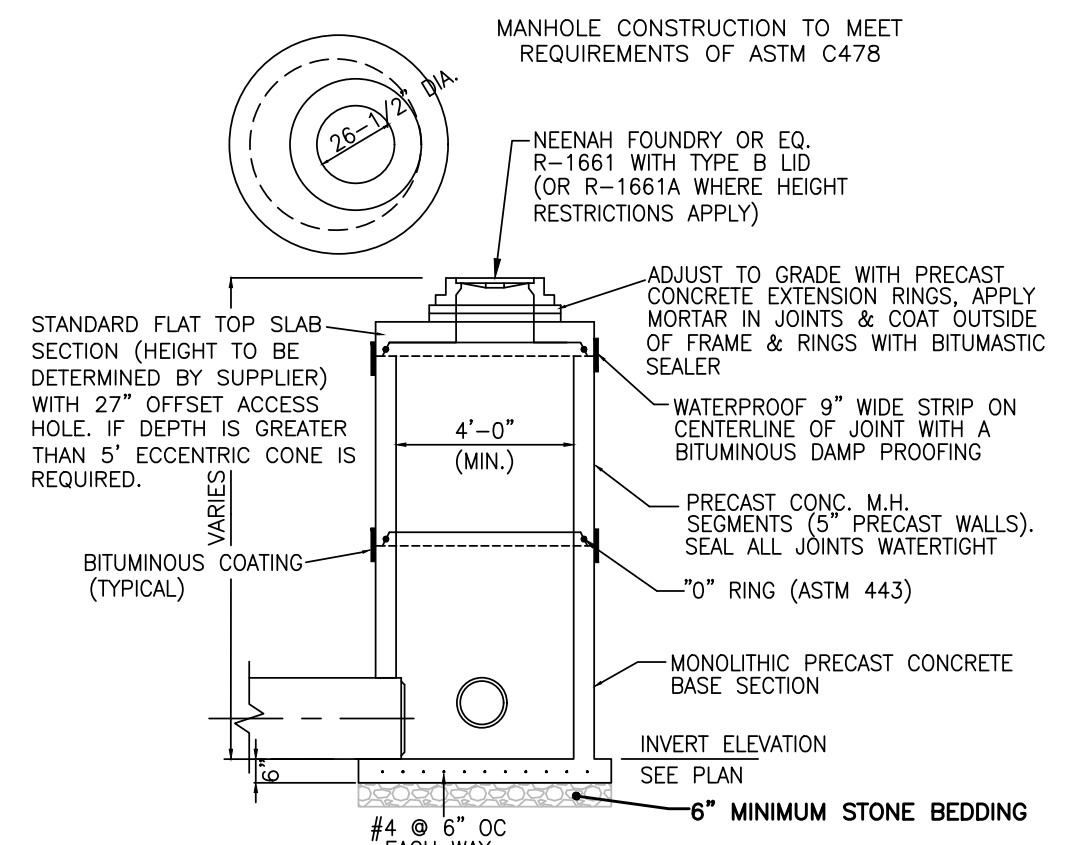
- NOTES:**
1. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS
 2. REFER TO MANUFACTURER'S AND/OR SUPPLIER'S SPECIFICATIONS FOR INSTALLATION RECOMMENDATIONS.
 3. ACTUAL LOCATION MAY BE FIELD ADJUSTED TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION.

SILT SOCK DETAIL
NO SCALE



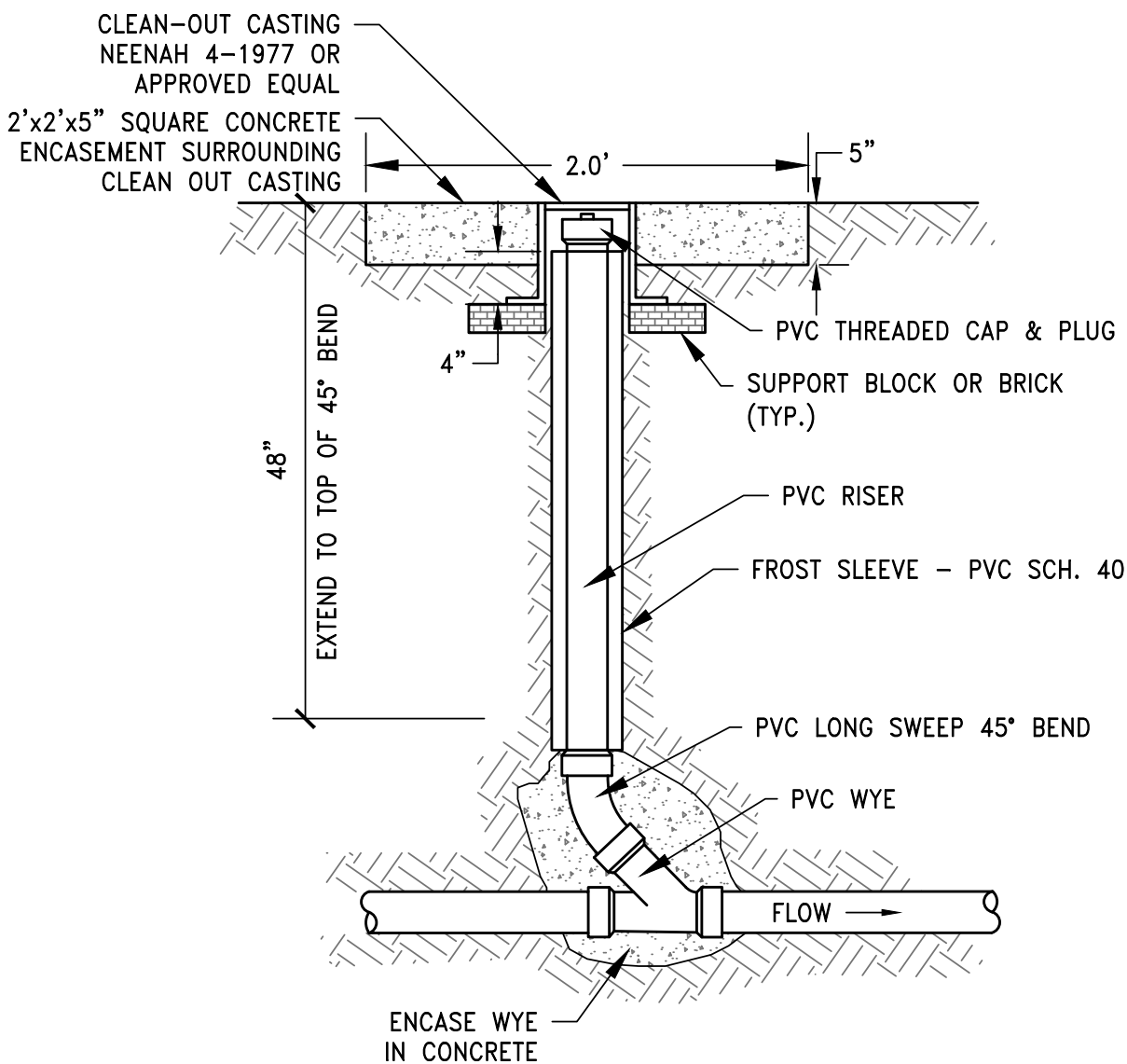
STANDARD DUTY ASPHALT PAVING SECTION
NO SCALE

- NOTE:**
1. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL VERIFY THE EXISTING BASE COURSE MATERIAL DEPTH AND PROVIDE MINIMUM CROSS-SECTION WHERE DEFICIENT.
 2. PROOFROLL BASE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
 3. STANDARD DUTY ASPHALT TO BE USED UNLESS OTHERWISE NOTED



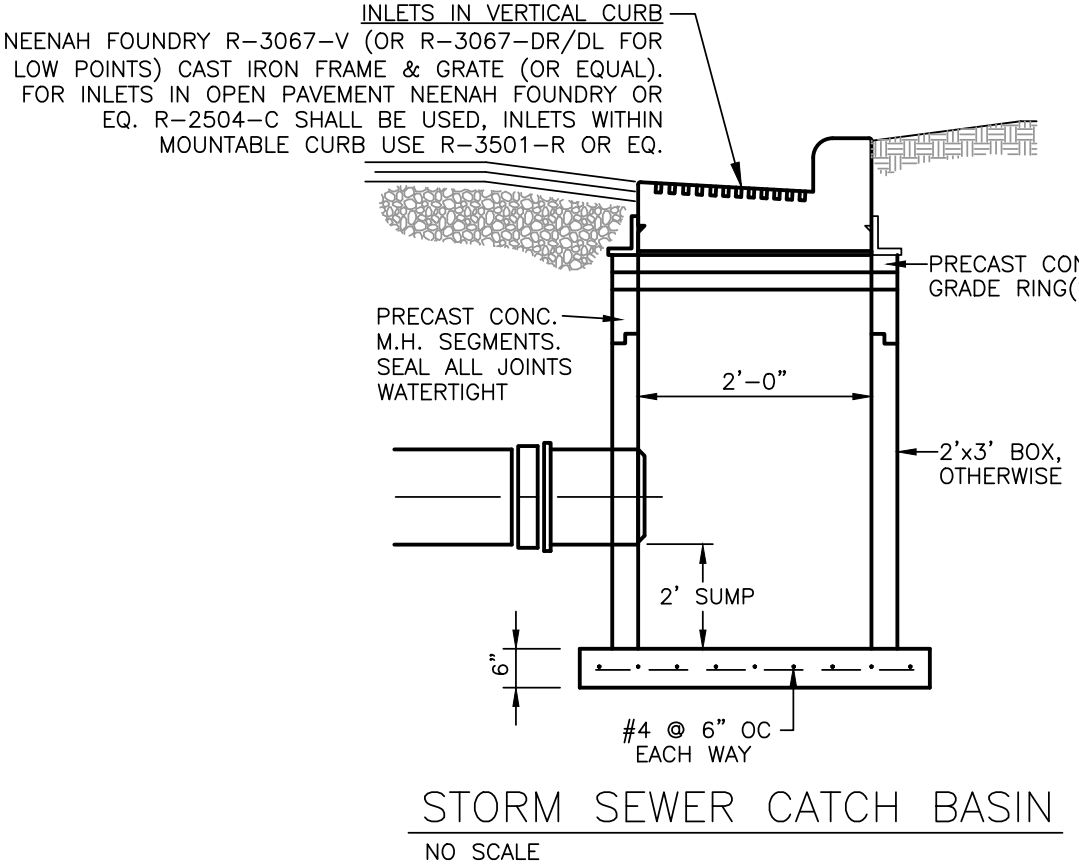
STORM MANHOLE DETAIL
NO SCALE

- NOTES:**
1. EZ-STICK RUBBER GASKET OR APPROVED EQUAL SHALL BE PLACED AT ALL JOINTS BETWEEN ADJUSTING RINGS.
 2. MINIMUM OF 2\", MAXIMUM OF 14\"/>

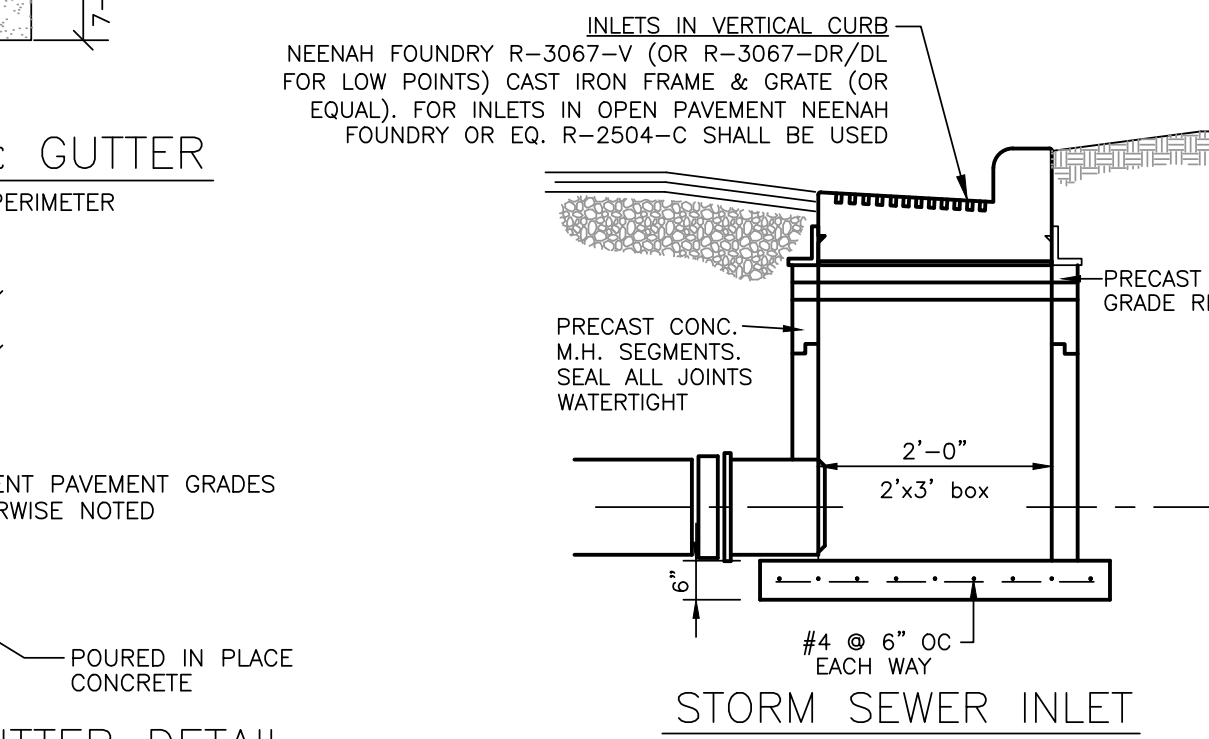


CLEAN-OUT STRUCTURE DETAIL
NO SCALE

NOTE: THIS DETAIL IS TO BE USED WHEN CLEAN-OUT LOCATION FALLS WITHIN PAVEMENT

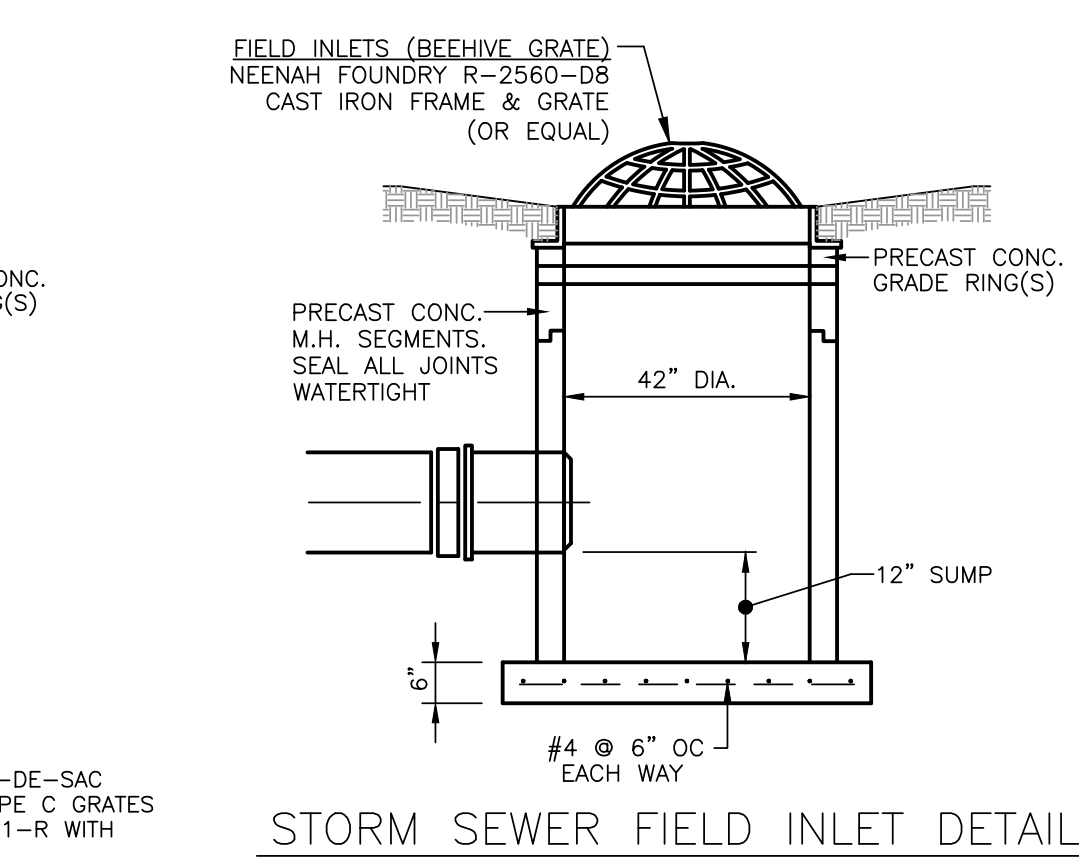


STORM SEWER CATCH BASIN
NO SCALE

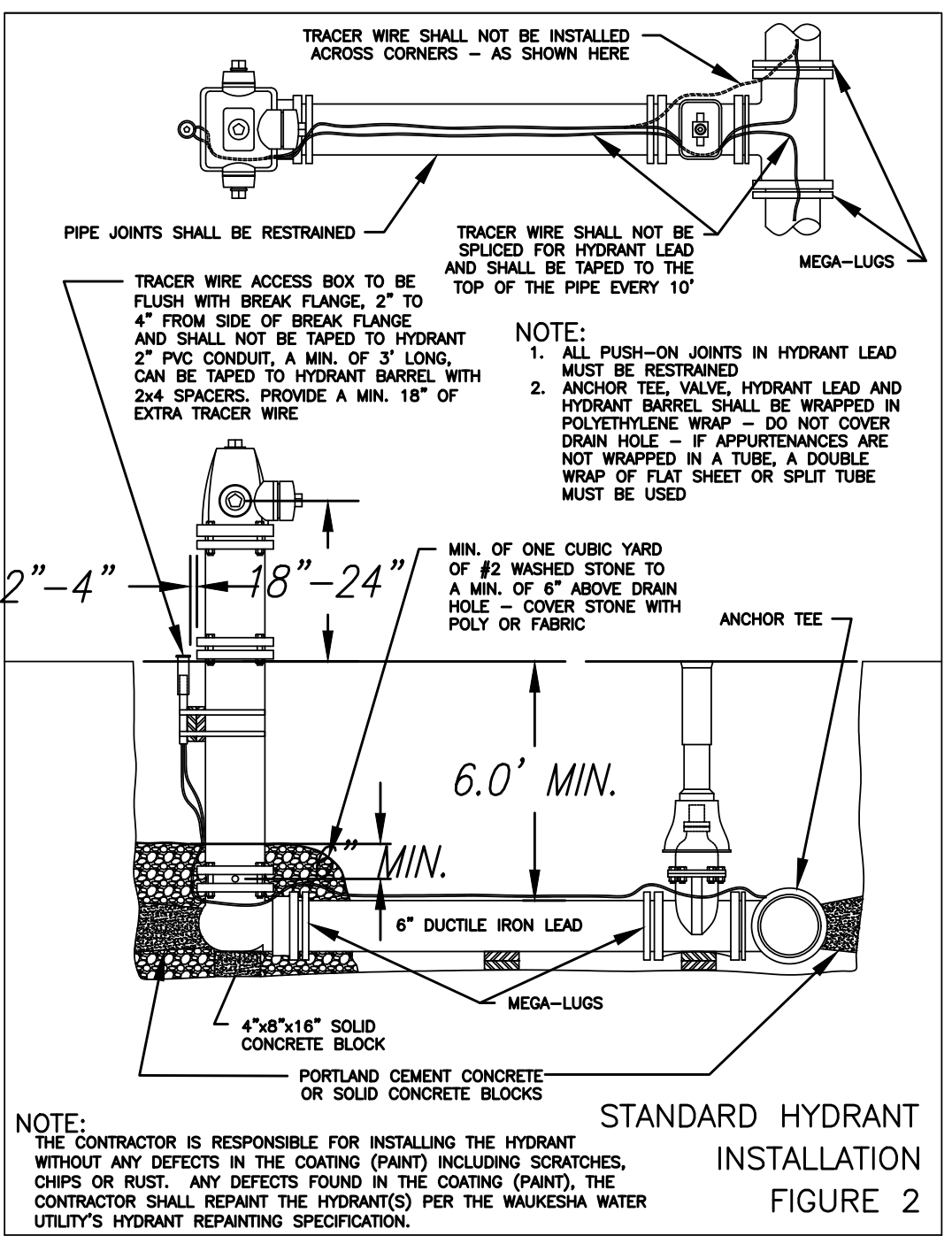


STORM SEWER INLET
NO SCALE

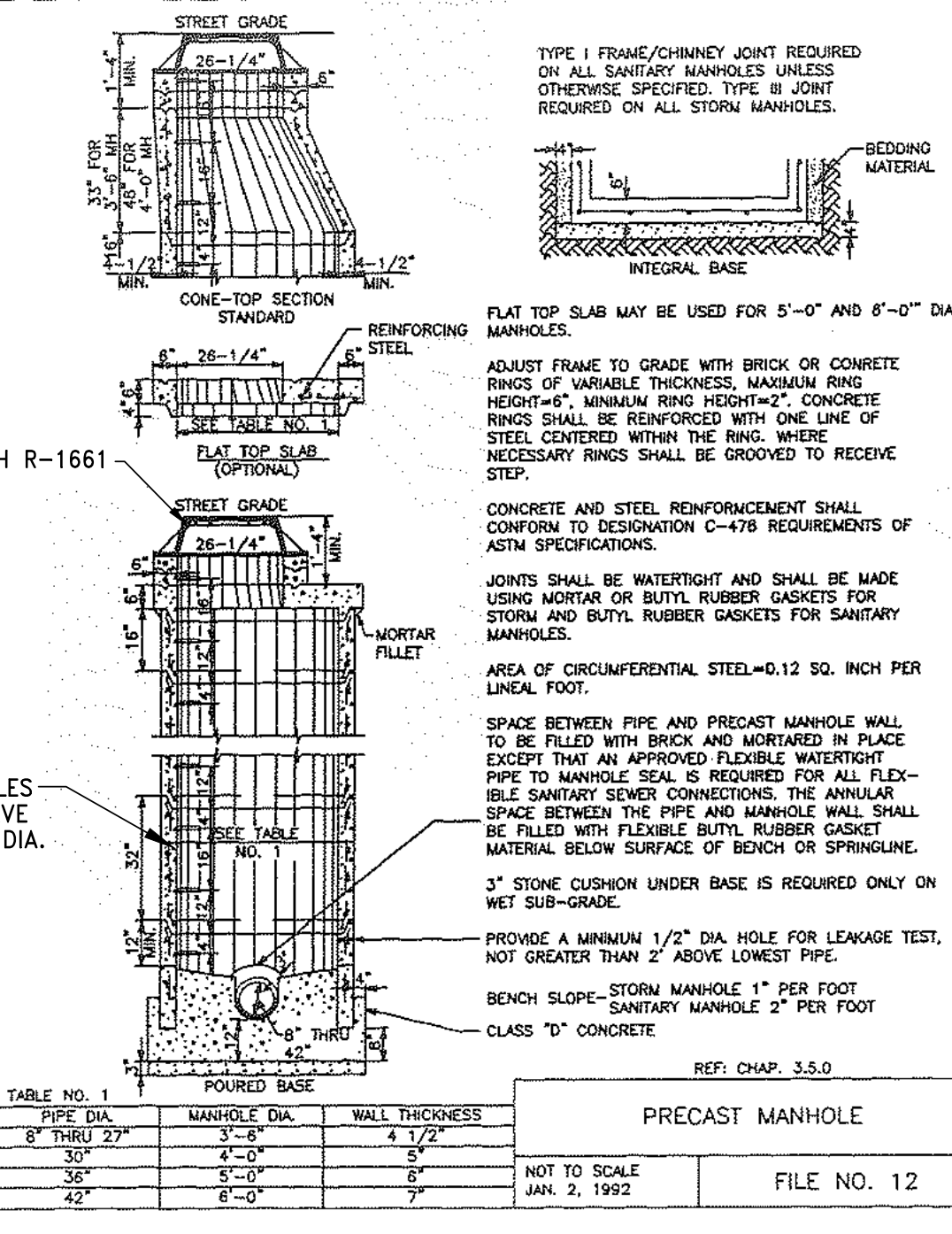
NOTE: STORM SEWER CASTINGS WITHIN THE CIL-DE-SAC SHALL BE NEENAH R-3228 K FRAMES WITH TYPE C GRATES FOR STRAIGHT FACE CURB AND NEENAH R-3501-R WITH TYPE C GRATES FOR ROLL FACE CURB.



STORM SEWER FIELD INLET DETAIL
NO SCALE

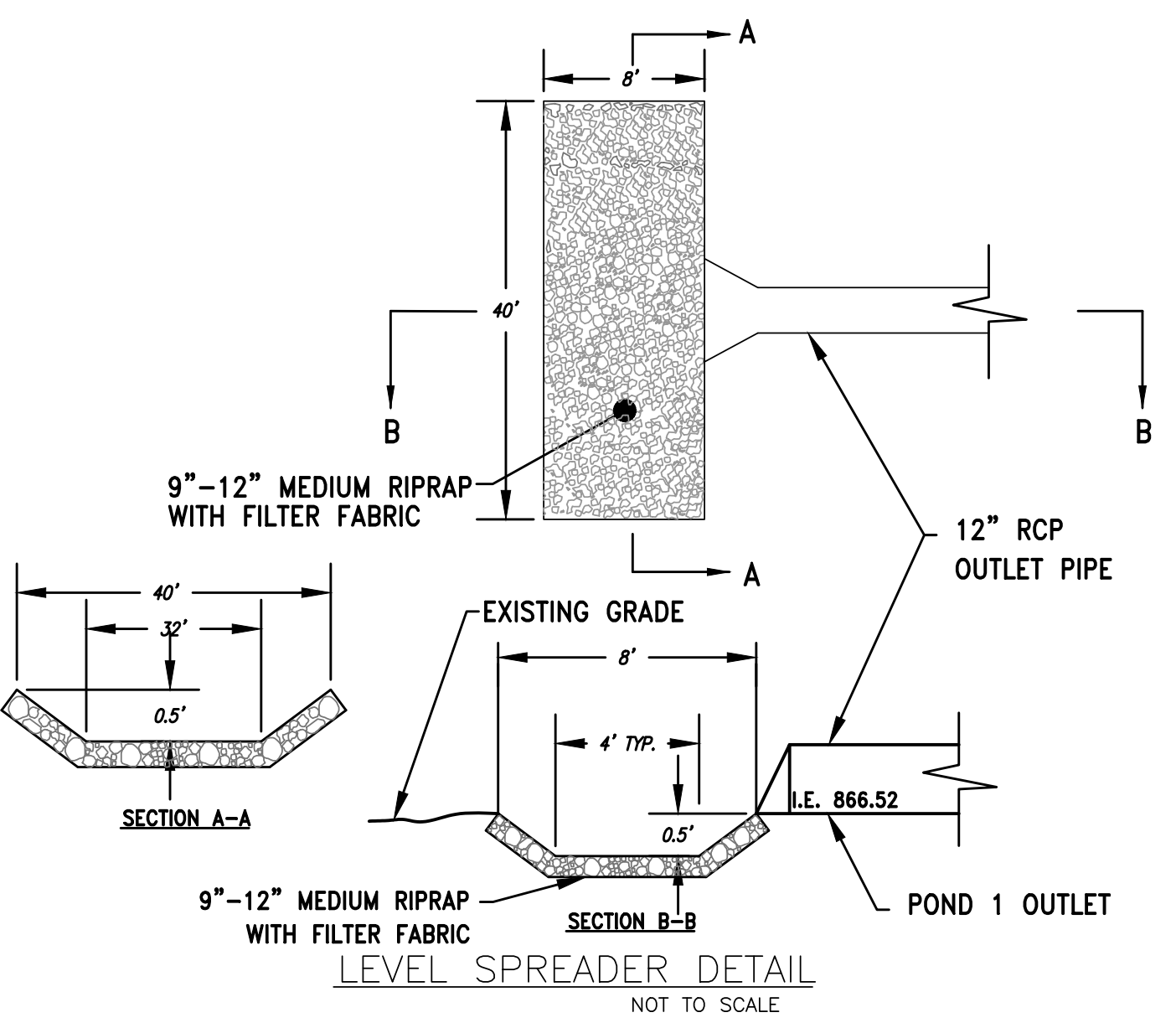


STANDARD HYDRANT INSTALLATION
FIGURE 2

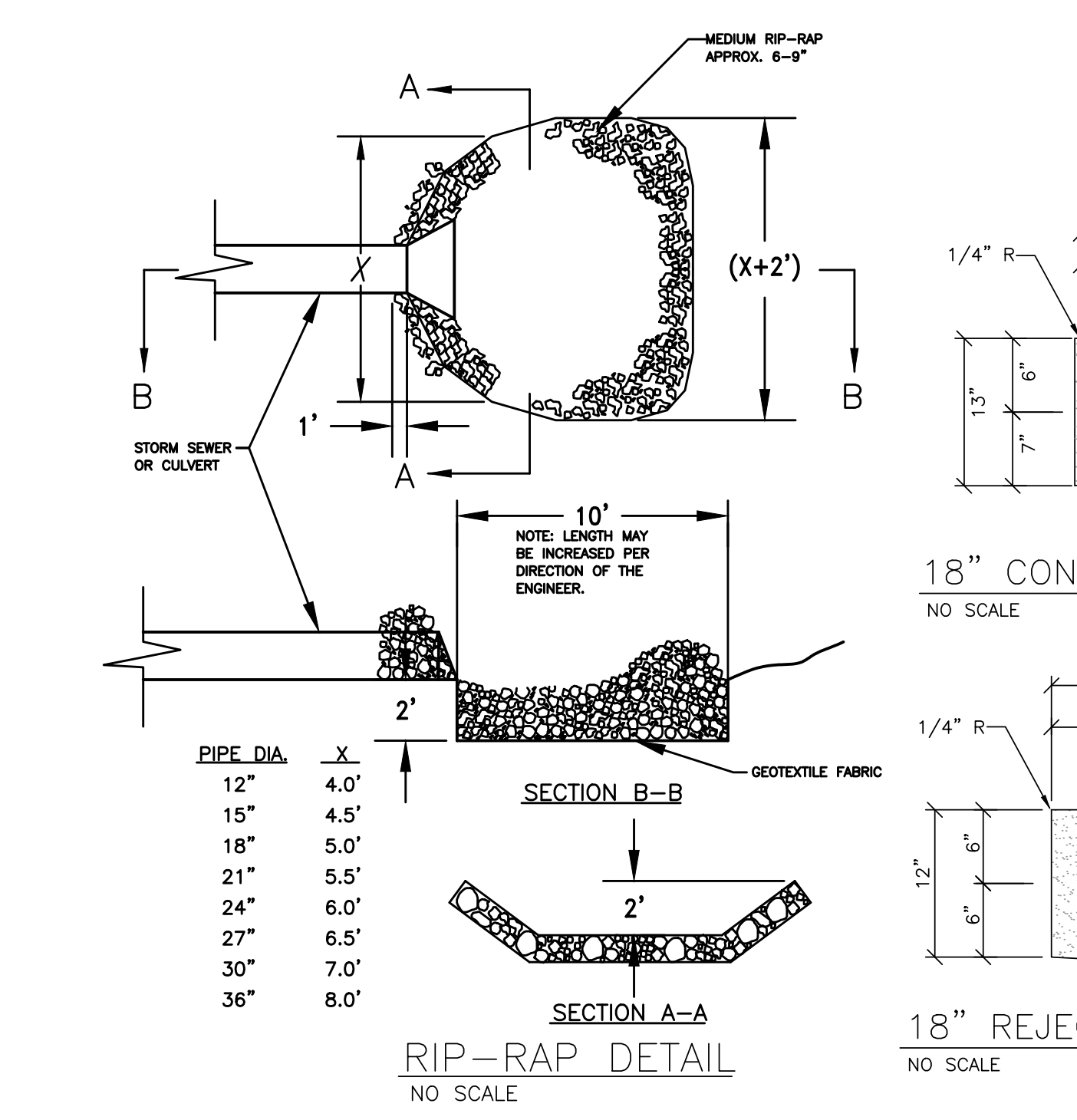


SANITARY MANHOLE DETAIL
NO SCALE

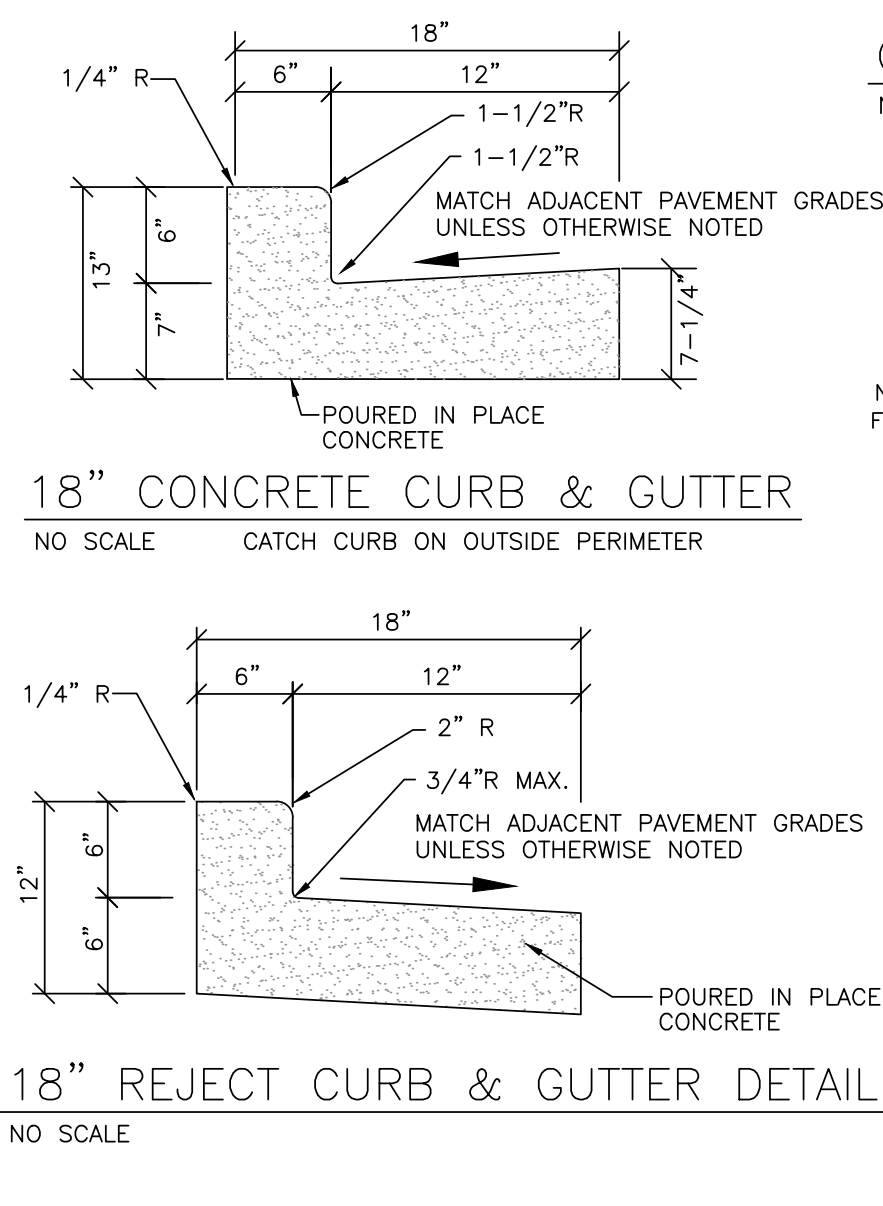
PIPE DIA.	MANHOLE DIA.	WALL THICKNESS	PRECAST MANHOLE
8" THRU 27"	3'-6"	4 1/2"	
30"	5'-0"	5"	
36"	5'-0"	5"	
42"	6'-0"	5"	



LEVEL SPREADER DETAIL
NOT TO SCALE



RIP-RAP DETAIL
NO SCALE



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