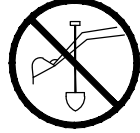


PROPOSED ADDITION FOR: TRINITY LUTHERAN CALEDONIA, WISCONSIN

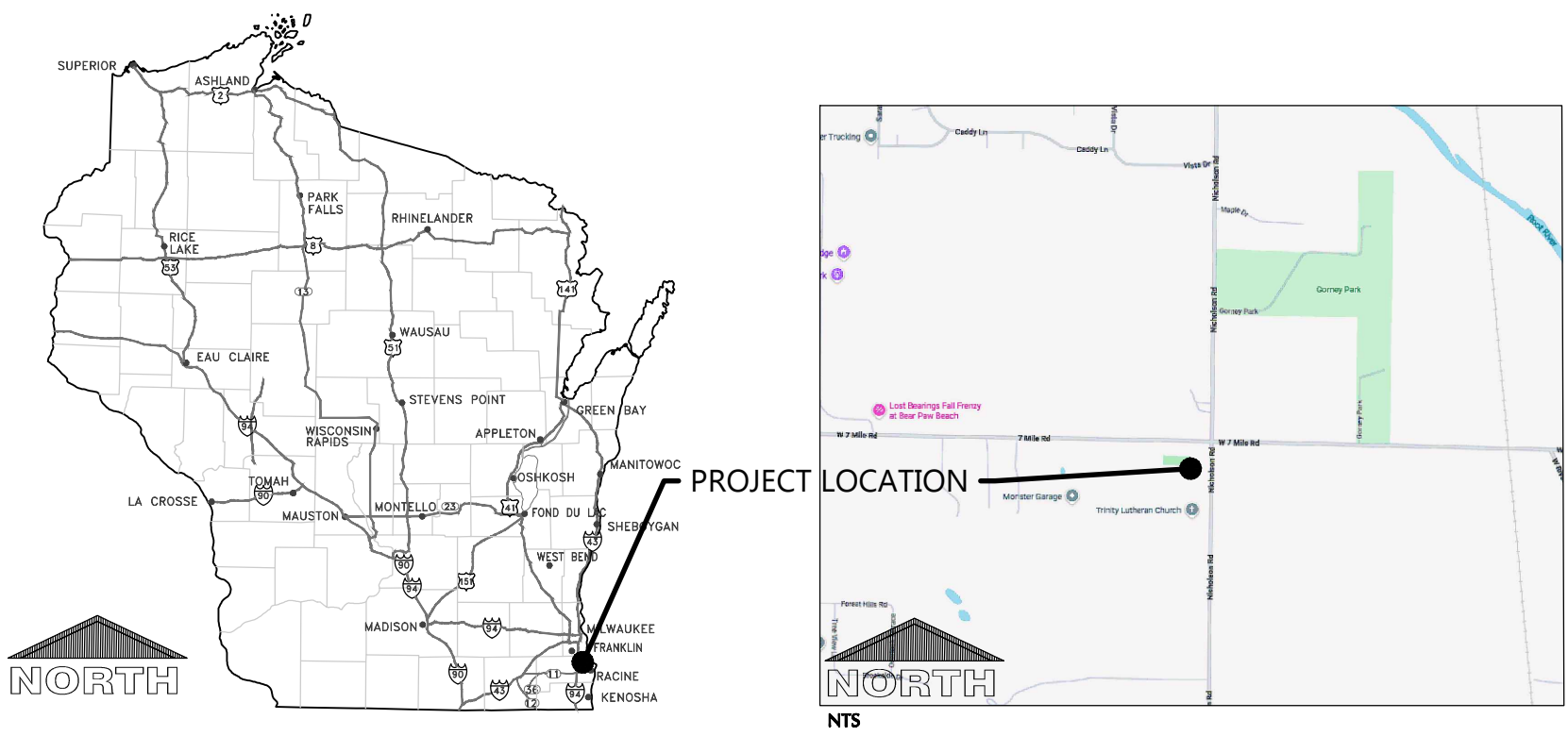


TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TELEFAX (414) 259-0947
TDD (FOR THE HEARING IMPAIRED)
1-800-342-2389
WISCONSIN STATUTE 182.0175 (1974)
REQUIRES MINIMUM OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

PROJECT CONTACTS

OWNER INFORMATION: Trinity Lutheran Michael Kadow 7900 Nicholson Road Caledonia, WI 53108 Email: mkadow8578@gmail.com	CIVIL: EOR: Eric Drazkowski, P.E. Contact: Alex Muhl Phone: (262)835-6419 E-mail: alex.muhl@excelengineer.com	PLANNER & ZONING ADMINISTRATOR: Natalia Nierzy de Farias Phone: (262)835-6419 E-mail: nfarias@caledonia-wi.gov	VILLAGE ENGINEER: Ryan Schmidt Phone: (262)835-6475 E-mail: RSchmidt@caledonia-wi.gov	FIRE CHIEF: Walter Leininger Phone: (262)835-2050 E-mail: frecheh@caledonia-wi.gov	DIRECTOR OF PUBLIC SERVICES: Anthony Bunkelman Phone: (262)835-6416 E-mail: abunkelman@caledonia-wi.gov
--	---	---	--	---	--

LOCATION MAP



PROJECT NOTES

GENERAL PROJECT NOTES

- ALL DRIVEWAYS AND CURB CUTS TO BE CONSTRUCTED ACCORDING TO LOCAL ORDINANCES. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WORK IN ROW PERMITS.
- CAUTION FOR EXISTING UTILITIES NOT DISCOVERED BY SURVEY UNDERNEATH PROPOSED ADDITION AND PARKING LOT SUCH AS WATER SERVICE FROM WELL, FIRE SUPPRESSION TANKS, AND ELECTRICAL SERVICE TO BUILDING.
- PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY WITH ENGINEER THAT WETLAND DELINEATION HAS BEEN COMPLETED AND THAT NO CONFLICTS EXIST. PROPOSED IMPROVEMENTS ARE LOCATED IN POTENTIAL WETLAND AREAS.

CONSTRUCTION STAKING SERVICES

CONSTRUCTION STAKING SHALL BE COMPLETED BY EXCEL ENGINEERING AS REQUESTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO CONTACT RYAN WILGREEN AT 920-926-9800 OR RYAN.W@EXCELENGINEER.COM TO GET STAKING PRICE TO INCLUDE IN BID TO OWNER. PAYMENT OF STAKING COSTS ABOVE AND BEYOND THE BASE PRICE DUE TO RESTAINING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, NOT THE OWNER. CAD DRAWING FILES AND SURVEY CONTROL WILL NOT BE PROVIDED FOR STAKING PURPOSES.

LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.			
SYM.	IDENTIFICATION	SYM.	IDENTIFICATION
SPOT ELEVATIONS			
1000.00	PROPOSED SPOT ELEVATIONS (FLOW LINE OF CURB UNLESS OTHERWISE SPECIFIED)	1000.00 TC	PROPOSED SPOT ELEVATIONS (TOP OF CURB, FLOWLINE OF CURB)
1000.00 FG	EXISTING GRADE SPOT ELEVATIONS	1000.00 FL	
1000.00 BG	PROPOSED SPOT ELEVATIONS (REFERENCE R-WALL DETAIL) BG-FINISHED SURFACE GRADE AT BACK OF WALL	1000.00 TW	PROPOSED SPOT ELEVATIONS (TOP OF WALK, BOTTOM OF WALK @ FLOWLINE)
1000.00 FG	FG-FINISHED SURFACE GRADE AT FRONT OF WALL	1000.00 BW	
EXISTING SITE SYMBOLS			
EXISTING SIGN		EXISTING UTILITY POLE	
EXISTING HANDICAP PARKING STALL		EXISTING UTILITY POLE WITH GUY WIRE	
EXISTING WATER VALVE IN BOX		EXISTING STREET LIGHT	
EXISTING WATER VALVE IN MANHOLE		EXISTING TELEPHONE PEDESTAL	
EXISTING WATER SERVICE VALVE		EXISTING ELECTRIC PEDESTAL	
EXISTING WELL		EXISTING ELECTRIC BOX	
EXISTING STORM CATCH BASIN		EXISTING FLOOD LIGHT	
EXISTING STORM CURB INLET		EXISTING TELEPHONE MANHOLE	
EXISTING SQUARE CATCH BASIN		EXISTING CABLE TV PEDESTAL	
EXISTING LIGHT POLE		EXISTING GAS VALVE	
1-1/4" REBAR SET WEIGHING 4.30 LB/FT.		EXISTING HEDGE	
3/4" REBAR SET WEIGHING 1.50 LB/FT.		EXISTING WOODED AREA	
1-1/4" REBAR FOUND		EXISTING MARSH AREA	
3/4" REBAR FOUND		EXISTING DECIDUOUS TREE WITH TRUNK DIAMETER	
2" IRON PIPE FOUND		EXISTING CONIFEROUS TREE	
1" IRON PIPE FOUND		EXISTING SHRUB	
SECTION CORNER		EXISTING STUMP	
PROPOSED SITE SYMBOLS			
PROPOSED SIGN		PROPOSED STORM FIELD INLET - ST FI	
PROPOSED HANDICAP PARKING STALL		PROPOSED LIGHT POLE	
PROPOSED WATER VALVE IN BOX		PROPOSED DRAINAGE FLOW	
PROPOSED WATER VALVE IN MANHOLE		PROPOSED APPRON END SECTION	
PROPOSED WATER SERVICE VALVE		SOIL BORING	
PROPOSED WELL		CENTER LINE	
PROPOSED STORM CATCH BASIN - ST CB		PROPOSED CLEANOUT	
PROPOSED STORM CURB INLET - ST CI		PROPOSED DOWNSPOUT TO GRADE	
		PROPOSED DOWNSPOUT TO RISER	
EXISTING LINETYPES			
EXISTING CHAINLINK FENCE		EXISTING POLISH SEWER AND MANHOLE	
EXISTING WOOD FENCE		EXISTING PROCESS SEWER AND MANHOLE	
EXISTING BARBED WIRE FENCE		EXISTING CLEAR WATER LINE	
EXISTING CURB AND GUTTER		EXISTING UNDERGROUND FIBER OPTIC LINE	
EXISTING GUARD RAIL		EXISTING UNDERGROUND ELECTRIC CABLE	
EXISTING GROUND CONTOUR		EXISTING UNDERGROUND TELEPHONE CABLE	
EXISTING STORM SEWER AND MANHOLE		EXISTING UNDERGROUND GAS LINE	
EXISTING SANITARY SEWER AND MANHOLE		EXISTING OVERHEAD UTILITY LINE	
EXISTING WATER LINE AND HYDRANT		RAILROAD TRACKS	
INTERIOR PROPERTY LINE		RIGHT-OF-WAY LINE	
PROPOSED LINETYPES			
PROPOSED CHAINLINK FENCE		PROPOSED POLISH SEWER AND MANHOLE	
PROPOSED WOOD FENCE		PROPOSED PROCESS SEWER AND MANHOLE	
PROPOSED BARBED WIRE FENCE		PROPOSED CLEAR WATER LINE	
PROPOSED CURB AND GUTTER		PROPOSED UNDERGROUND FIBER OPTIC LINE	
PROPOSED GUARD RAIL		PROPOSED UNDERGROUND ELECTRIC CABLE	
PROPOSED GROUND CONTOUR		PROPOSED UNDERGROUND TELEPHONE CABLE	
PROPOSED STORM SEWER AND MANHOLE - ST MH		PROPOSED UNDERGROUND GAS LINE	
PROPOSED SANITARY SEWER AND MANHOLE - SAN MH		PROPOSED OVERHEAD UTILITY LINE	
PROPOSED WATER LINE AND HYDRANT		MATCHLINE	
PROPOSED PROPERTY LINE		GRADING/SEEDING LIMITS	

SHEET INDEX

SHEETS BELOW INTENDED TO BE PRINTED IN COLOR. REFER TO DIGITAL FORMAT DRAWINGS IF PRINTED GRAYSCALE TO ENSURE SCOP CLARITY.

NUMBER	SHEET NAME / DESCRIPTION
C0.1	COVER SHEET
C0.2	SPECIFICATIONS
C1.0	EXISTING SITE AND DEMOLITION PLAN
C1.1A	SITE PLAN-NORTH
C1.1B	SITE PLAN-SOUTH
C1.2A	GRADING AND EROSION CONTROL PLAN-NORTH
C1.2B	GRADING AND EROSION CONTROL PLAN-SOUTH
C1.3	UTILITY PLAN
C1.4A	LANDSCAPE AND RESTORATION PLAN-NORTH
C1.4B	LANDSCAPE AND RESTORATION PLAN-SOUTH
C2.0	DETAILS
C2.1	DETAILS
C3.1	SITE PHOTOMETRIC PLAN & DETAILS



Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL



SHEET DATES

ISSUED FOR APPROVAL
IFA JUNE 22, 2026

JOB NUMBER

250406900

SHEET NUMBER

C0.1

CIVIL COVER SHEET

CIVIL SPECIFICATIONS

DIVISION 31 EARTH WORK

31 10 00 SITE CLEARING (DEMOLITION)

- A. CONTRACTOR SHALL CALL DIGGERS HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- B. CONTRACTOR TO FIELD TELEVIEW ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE AT TIME OF DEMOLITION. THE TELEVIEWING SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVIEWING OF THESE LATERALS SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVIEWING.
- C. DEMOLITION PLAN IS AN OVERVIEW OF DEMOLITION TO TAKE PLACE ON SITE. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPLACE, OR DEMOLISH ALL ITEMS AS NEEDED DURING CONSTRUCTION.
- D. CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED AT CONTRACTORS EXPENSE.
- E. ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.

31 20 00 EARTH MOVING

- A. CONTRACTOR SHALL CALL DIGGERS HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- B. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.
- C. ALL ORGANIC TOPSOIL INSIDE THE BUILDING AREA, UNDER PAVED AREAS, AND AT SITE FILL AREAS SHALL BE REMOVED. PROOF ROLL SUBGRADES BEFORE PLACING FILL WITH HEAVY PNEUMATIC TIRED EQUIPMENT. SUCH AS A FULLY-LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR THE PROJECT. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE PLANS OR BY LOCAL ZONING REQUIREMENTS.
- D. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL. MATERIAL THAT IS TOO WET TO COMPACT TO SPECIFIED DRY DENSITY.
- E. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 6" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- F. COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698, STANDARD PROCTOR TEST. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
- UNDER FOUNDATIONS - SUBGRADE, AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 98 PERCENT.
 - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE, WITH 5% TO 12% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
 - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE - PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE, WITH NO MORE THAN 5% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
 - UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
 - UNDER WALKWAYS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
 - UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 95 PERCENT.
- G. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF PASSING DENSITY TESTING AND PROOF-ROLLING TO ENGINEER UPON COMPLETION. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USED TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE ENGAGED FOR THE FIELD QUALITY CONTROL TESTS.
- H. ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB, ONE TEST FOR EACH SPREAD FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL STRIP FOOTING.
- WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED, RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
 - THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADED TO WITHIN 0.10' OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

31 30 00 EROSION CONTROL/STORMWATER MANAGEMENT

- A. THE EXCEL ENGINEERING DESIGN ENGINEER SHALL PREPARE A SITE SPECIFIC EROSION CONTROL AND A STORMWATER MANAGEMENT PLAN PURSUANT TO NR 216.46 AND NR 216.47. THE DESIGN ENGINEER SHALL ALSO FILE A CONSTRUCTION NOTICE OF INTENT WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES PURSUANT TO NR 216.43 OR TO AN AUTHORIZED LOCAL PROGRAM PURSUANT TO NR 216.415 TO OBTAIN COVERAGE UNDER THE GENERAL WIPES STORM WATER PERMIT.
- B. THE CONTRACTOR SHALL KEEP THE NOTICE OF INTENT PERMIT, APPROVED EROSION CONTROL AND STORMWATER MANAGEMENT PLANS, AND EROSION CONTROL MEASURES IN PLACE AT THE CONSTRUCTION SITE AT ALL TIMES PURSUANT TO NR 216.455 UNTIL PERMIT COVERAGE IS TERMINATED.
- C. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL EROSION CONTROL PERMITS.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE MONITORING, MAINTENANCE, AND REPORTING REQUIREMENTS OF NR 216.48. INSPECTIONS OF IMPLEMENTED EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST AT A MINIMUM BE INSPECTED EVERY 7 CALENDAR DAYS OR EVERY 14 DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5" OR MORE. A RAIN EVENT MAY BE CONSIDERED TO BE THE TOTAL AMOUNT OF PRECIPITATION RECORDED IN ANY CONTINUOUS 24-HOUR PERIOD. THE CONTRACTOR SHALL REPAIR OR REPLACE EROSION AND SEDIMENT CONTROL AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR AFTER A DEPARTMENT NOTIFICATION WHERE REPAIR OR REPLACEMENT IS REQUESTED.
- E. THE CONTRACTOR SHALL MAINTAIN, AT THE CONSTRUCTION SITE OR AVAILABLE VIA AN INTERNET WEBSITE, WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS CONDUCTED. WISCONSIN DNR CONSTRUCTION SITE INSPECTION REPORT FORM 3400-167 SHALL BE USED. WEEKLY INSPECTION REPORTS SHALL INCLUDE ALL OF THE FOLLOWING:
- THE DATE, TIME, AND LOCATION OF THE CONSTRUCTION SITE INSPECTION.
 - THE NAME OF THE INDIVIDUAL WHO PERFORMED THE INSPECTION.
 - AN ASSESSMENT OF THE CONDITION OF THE EROSION AND SEDIMENT CONTROLS.
 - A DESCRIPTION OF ANY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED.
 - A DESCRIPTION OF THE PRESENT PHASE OF LAND DISTURBING CONSTRUCTION ACTIVITY AT THE CONSTRUCTION SITE.
 - EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151. THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES RUNOFF MANAGEMENT PERFORMANCE STANDARDS, TECHNICAL STANDARDS PUBLISHED BY THE WISCONSIN DNR SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHODS AND TYPES OF EROSION CONTROL WILL BE DEPENDENT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND INSTALLED PRIOR TO ANY GRADING OR OBSTRUCTION OF EXISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED.
- SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WILL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1056 (CURRENT EDITION).
 - DITCH CHECKS SHALL BE PROVIDED TO REDUCE THE VELOCITY OF WATER FLOWING IN DITCH BOTTOMS. PLACE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1066 (CURRENT EDITION).
 - STONE TRACING PADS AND TRACOUT CONTROL PRACTICES SHALL BE PLACED AT ALL CONSTRUCTION SITE ENTRANCES AND SHALL BE INSTALLED BEFORE ANY TRAFFIC LEAVING THE CONSTRUCTION SITE. SEE THE EROSION CONTROL PLAN FOR LOCATIONS. THE AGGREGATE FOR THE STONE TRACING PAD SHALL BE 3/8" TO 3/4" INCH CLEAR OR WASHED STONE AND SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK. THE STONE SHALL BE UNDERLAIN WITH A WESOT TYPE R GEOTEXTILE FABRIC AS NEEDED. THE TRACING PAD SHALL BE THE FULL WIDTH OF THE GRESSES POINT (1/2" MIN WIDTH) AND SHALL BE A MINIMUM OF 30 FEET LONG. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACING PAD. OTHER TRACOUT CONTROL PRACTICES INCLUDING STABILIZED WORK SURFACES, MANUFACTURED TRACOUT CONTROL DEVICES, TREE WASHING, AND STREET/PAVEMENT CLEANING SHALL BE IMPLEMENTED AS NECESSARY TO MITIGATE THE TRACKOUT OF SEDIMENT OFFSITE. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1057 (CURRENT EDITION).
 - STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. TYPE B OR C PROTECTION SHOULD BE PROVIDED AND SHALL BE IN CONFORMANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1060 (CURRENT EDITION).
 - DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRAYING, SURFACE ROUTING/ING, APPLYING POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES, AND BARRIERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION).
 - THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATERS OF THE STATE.
 - CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THE DESIGNATED AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
 - TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THIS TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT STABILIZATION SHALL OCCUR WITHIN 3 WORKING DAYS OF FINAL GRADING. TOPSOIL SEED AND MULCH SHALL BE IN GENERAL CONFORMANCE WITH TECHNICAL STANDARDS 1058 AND 1059 AND SHALL MEET THE SPECIFICATIONS FOUND IN THE LANDSCAPING AND SITE STABILIZATION SECTION OF THE CONSTRUCTION DOCUMENT. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
 - IF SITE DEWATERING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES, ALL SEDIMENT LADEN WATER GENERATED DURING THE DEWATERING PROCESS SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGING OFF-SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN TECHNICAL STANDARD 1061.
 - ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REQUIREMENTS SHALL BE FOLLOWED PER WISCONSIN TECHNICAL STANDARD 1066 (CURRENT EDITION). FLUSHING SHALL NOT BE ALLOWED.
 - EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREA(S) SERVED HAVE ESTABLISHED VEGETATIVE COVER.
 - ONCE THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED AND TEMPORARY EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN REMOVED, THE CONTRACTOR SHALL FILE A CONSTRUCTION NOTICE OF TERMINATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES IN ACCORDANCE WITH NR 216.55.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL GIVE THE OWNER COPIES OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS, AMENDMENTS TO PLANS, SUPPORTING PLAN DATA, AND CONSTRUCTION SITE EROSION CONTROL INSPECTION REPORTS. THE OWNER SHALL RETAIN THESE FOR A PERIOD OF 3 YEARS FROM THE DATE OF TERMINATING COVERAGE UNDER WIPES GENERAL PERMIT.
 - ALL POST CONSTRUCTION STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES SHALL BE CONSTRUCTED BEFORE THE SITE HAS UNDERGONE FINAL STABILIZATION.

DIVISION 32 EXTERIOR IMPROVEMENTS

32 10 00 AGGREGATE BASE & ASPHALT PAVEMENT

- A. CONTRACTOR TO PROVIDE COMPACTED AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT WHERE INDICATED ON THE PLANS. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. PROVIDE HOT MIX ASPHALT MIXTURE PER SECTION 460 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. CONTRACTOR SHALL SUBMIT A TEST REPORT TO THE DESIGN ENGINEER FOR EACH GEO GRID / GEOTEXTILE BELOW CRUSHED AGGREGATE IF APPLICABLE. CONTRACTOR TO PROVIDE AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT TYPES AND DEPTHS AS INDICATED BELOW:
- | | |
|--|--|
| STANDARD ASPHALT PAVING SECTION | HEAVY ASPHALT PAVING SECTION |
| 1-1/2" SURFACE COURSE (S 17-58-285) | 1-1/2" SURFACE COURSE (S 17-58-285) |
| WIDENOT 45.5 TACK COAT (STAGED PAVING) | WIDENOT 45.5 TACK COAT (STAGED PAVING) |
| 2" BINDER COURSE (L 17-58-285) | 2-1/2" BINDER COURSE (L 17-58-285) |
| 10" OF 1-1/4" CRUSHED AGGREGATE | 12" OF 1-1/4" CRUSHED AGGREGATE |
- B. CONTRACTOR TO COMPACT THE AGGREGATE BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL ASPHALT PAVEMENT AREAS SHALL BE PAVED TO WITHIN 0.05" OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1.5% SLOPE SHALL BE MAINTAINED IN ALL ASPHALT PAVEMENT AREAS.
- C. HOT MIX ASPHALT CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF GEOTECHNICAL REPORT OR CONSTRUCTION DOCUMENTS.
- D. CONTRACTOR TO PROVIDE 4" WIDE YELLOW PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. YELLOW PAINT MARKINGS SHALL ALSO BE PROVIDED FOR I.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

32 20 00 CONCRETE AND AGGREGATE BASE

- A. CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS.
- B. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL AGGREGATE PLACED MUST BE COMPACTED TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- C. DESIGN AND CONSTRUCTION OF ALL CAST-IN-PLACE EXTERIOR CONCRETE PLAT WORK SHALL CONFORM TO AC 308R OR AC 318-08.
- D. EXTERIOR CONCRETE PLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE DESIGN ENGINEER. CONCRETE PLAT WORK CONSTRUCTION IS AS FOLLOWS:
- SIDEWALK CONCRETE - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE. CONTRACTION JOINTS SHALL CONSIST OF 1/8" WIDE 1" DEEP TOOLED JOINT WHERE INDICATED ON THE PLANS.
 - BUMPER STRAP/IRON CONCRETE - 8" OF CONCRETE OVER 8" OF AGGREGATE BASE.
 - CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO 1/4 OF THE SLAB.
 - THE BARS AT ALL CONTRACTION JOINTS OF THE CONCRETE. THE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.
 - BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
 - CONCRETE JOINTING SHALL BE AS FOLLOWS:
 - DITCHES: CONCRETE SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH.
 - TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1-1/4" DIAMETER BY 20" LONG SMOOTH DOWEL PLACED AT 12" O.C. ONE HALF OF THE DOWEL SHALL BE GREASED. GREENSTAIN 9" SPEED DOWEL TUBES SHALL BE USED.
 - MAXIMUM AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH ASTM C94.
 - STRENGTH TO BE MINIMUM OF 4,500 PSI AT 28 DAYS FOR EXTERIOR CONCRETE.
 - MAXIMUM WATER-CEMENT RATIO SHALL BE 0.45.
 - SUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE PLAT WORK.
 - SUMP SHALL BE 25" OR LESS FOR SUMP FORMED CURB AND GUTTER.
 - SUMP SHALL BE BETWEEN 15" TO 3" FOR NON-SLIP FORMED CURB AND GUTTER.
 - ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 6% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE SHALL NOT BE USED.
 - MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES.
 - VERIFY EQUIPMENT CONCRETE PAD SIZES WITH CONTRACTOR REQUIREING PAD. PADS SHALL HAVE FIBERESH 300 FIBERS AT A RATE OF 1.5 LB/CY. (SD OR 6 X 6 X 1/4 X 1/4) WELDED WIRE MESH WITH MINIMUM 1 INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. CONCRETE SHALL BE PROVIDED ON 6" OF 3/4" CRUSHED AGGREGATE BASE. COORDINATE ADDITIONAL PAD REQUIREMENTS WITH RESPECTIVE CONTRACTOR.
 - ALL CONCRETE PLAT WORK SURFACES AND CONCRETE CURB FINISHES SHALL BE CONSTRUCTED TO WITHIN 0.05" OF DESIGN SURFACE AND FLOWLINE GRADINGS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS.
 - CONCRETE PLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER JOINTING SHALL BE PLACED EVERY 10' OR CLOSER (6 MIN.). CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB. JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH SOLIDS CURING COMPOUND MEETING ASTM C309 SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATED FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.25 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS.
 - ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND WITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" FOR #5 BARS AND 2" FOR #6 TO #10 BARS IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPPED 48 DIAMETERS FOR UP TO #6 BARS, 62 DIAMETERS FOR #7 TO #9 BARS, 68 DIAMETERS FOR #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNER BARS. PLACING AND DETAILING OF STEEL REINFORCING AND REINFORCING SUPPORTS SHALL BE IN ACCORDANCE WITH CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE/OIL, DIRT OR DEEP RUST WHEN PLACED IN THE WORK. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 106. WELDED WIRE FABRIC SHALL BE PLACED 2" FROM TOP OF SLAB, UNLESS INDICATED OTHERWISE.
 - CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. TESTS WILL BE PERFORMED ACCORDING TO ACI 301, CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. PERFORM COMPRESSIVE STRENGTH TESTS ACCORDING TO ASTM C 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTM C 143. PROVIDE ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
 - PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION-CONTROL COMPOUND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELLING.
 - LIMIT MAXIMUM WATER-CEMENT/ITIOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING AND DECIDING SALTS TO 0.45.
 - TEST RESULTS WILL BE REPORTED IN WRITING TO THE DESIGN ENGINEER. READY MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH ON SITE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

32 30 00 LANDSCAPING AND SITE STABILIZATION

- A. TOPSOIL CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN A LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL. REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPE FINAL GRADING. LANDSCAPER TO PROVIDE PULVERIZING AND FINAL GRADING OF TOPSOIL. PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL AMENDMENTS.
- B. TEST SOIL FOR PRESENCE OF ATRAZINE AND INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 8, CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH SHALL ALSO BE REMOVED.
- C. TOPSOIL INSTALLATION: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1 1/2 IN DIAMETER. ALSO REMOVE ANY STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEIOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD TOPSOIL IF SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN 0.05 FEET OF FINISHED GRADE ELEVATION.
- D. SEEDED LAWNS:
- PERMANENT LAWN AREAS SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS (2.0-2.6 LB/S/1,000 S.F.), 20% PERENNIAL RYEGRASS (0.6-0.8 LB/S/1,000 S.F.), 15% FINE FESCUE (0.4-0.6 LB/S/1,000 S.F.), STRAW AND MULCH SHALL BE LAD AT 100 LB/S/1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LB/S/1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED.
 - ALL PERMANENT AND TEMPORARY STORM WATER CONVEYANCE SWALE BOTTOMS AND SIDE SLOPES AS WELL AS STORMWATER MANAGEMENT BASIN BOTTOMS AND SIDE SLOPES SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.60 LB/S/1,000 S.F.), 40% CREEPING RED FESCUE (0.50 LB/S/1,000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LB/S/1,000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LB/S/1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WISCONSIN TECHNICAL STANDARDS 1058 & 1059.
 - ALL TEMPORARY SEEDINGS SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 1.9 LB/S/1,000 S.F. STRAW AND MULCH SHALL BE LAD AT 100 LB/S/1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LB/S/1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WISCONSIN TECHNICAL STANDARDS 1058 & 1059.
- E. SEEDED LAWN MAINTENANCE: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS SHOULD BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. LAWN COVERAGE SHOULD EXCEED 90% AND BARE SPOTS SHOULD NOT EXCEED 5%." CONTRACTOR SHOULD REESTABLISH LAWNS THAT DO NOT COMPLY WITH THESE REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.
- D. EROSION MATTING:
- CONTRACTOR TO PROVIDE EROSION CONTROL MATTING (NORTH AMERICAN GENIE 1550) OR EQUIVALENT ON ALL SLOPES THAT ARE 4:1 AND GREATER OUTSIDE OF STORMWATER CONVEYANCE SWALES AND STORMWATER MANAGEMENT BASINS. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
 - CONTRACTOR TO PROVIDE EROSION MATTING (NORTH AMERICAN GENIE C125) OR EQUIVALENT IN ALL SWALE BOTTOMS AND SIDE SLOPES AS WELL AS STORMWATER MANAGEMENT BASIN BOTTOMS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
- E. STORMWATER MANAGEMENT DRAIN SAFETY SHELF SEEDING: SAFETY SHELF SHALL BE SEEDDED WITH A WEED PRONABLE EMERGENT PLANT TYPE MIX.
- F. RIP RAP: ALL RIP RAP ASSOCIATED WITH STORMWATER MANAGEMENT AND STORMWATER CONVEYANCE AS DELINEATED ON THE PLANS, SHALL BE CONSTRUCTED WITH THE TOP OF RIP RAP MATCHING THE PROPOSED ADJACENT GRADE ELEVATIONS. PLACEMENT OF RIP RAP ABOVE THE PROPOSED ADJACENT GRADE ELEVATIONS IS NOT ACCEPTABLE. ALL RIP RAP SHALL BE PLACED ON THE RIP RAP FILTER FABRIC PER SECTION 445 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- G. TREES AND SHRUBS: FURNISH NURSERY-GROWN TREES AND SHRUBS WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, AND HEALTHY LOOKING STOCK. STOCK SHOULD ALSO BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. SEE THE LANDSCAPE PLAN FOR SPECIFIC, SPECIE, TYPE, SIZE, AND LOCATION.
- H. TREE AND SHRUB INSTALLATION: EXCAVATE CIRCULAR PITS WITH SIDE SLOPES INWARD. TRIM BASE LEAVING CENTER AREA SAVED SUFFICIENT TO SUPPORT ROOT BALL. EXCAVATE PIT APPROXIMATELY THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER. SET TREES AND SHRUBS PLUMB AND IN CENTER OF PIT WITH TOP OF BALL 1" ABOVE ADJACENT FINISHED GRADES. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS AND TAMP TO SETTLE MULCH. WATER ALL PLANTS THOROUGHLY. PROVIDE TEMPORARY STAKING FOR TREES AS REQUIRED.
- I. TREE AND SHRUB MAINTENANCE/WARRANTY: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. MAINTENANCE TO INCLUDE REGULAR WATERING AS REQUIRED FOR SUCCESSFUL PLANT ESTABLISHMENT. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS.
- J. ORGANIC MULCH: PROVIDE 3" MINIMUM THICK BLANKET OF SHREDED HARDWOOD MULCH AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTALL OVER NON-WOVEN WEED BARRIER FABRIC. COLOR BY OWNER.
- K. PLASTIC EDGING: INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAWN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWNS. EDGING BE 5.5" TALL WITH METAL STAKES INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

DIVISION 33 UTILITIES

33 10 00 SITE UTILITIES (DESIGN OF WATER, SANITARY, AND STORM BY EXCEL)

- A. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY PROPOSED UTILITY ROUTES ARE CLEAR PER CODE OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTORS RESPONSIBILITY.
- B. CONTRACTOR TO FIELD TELEVIEW ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELEVIEWING SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVIEWING OF THESE LATERALS SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVIEWING.
- C. ALL SANITARY PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE, ALL SANITARY PIPE BELOW PROPOSED A FUTURE BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL. INSULATION SHALL BE PROVIDED PER STATE PLUMBING CODES AS NECESSARY BASED ON PROPOSED DEPTH PER PLANS.
- D. SANITARY AND PROCESS MANHOLES SHALL BE 48" PRECAST AND CONFORM TO THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN-CURRENT EDITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PROCESS MANHOLES SHALL BE UNID W/ GSE STUDLINER LINING. SANITARY & PROCESS MANHOLE FRAME AND GRATE TO BE FINISH FR 1550-A OR EQUAL, RM ELEVATION TO BE SET AT FINISHED GRADE IN DEVELOPED AREAS AND 12" ABOVE FINISHED GRADE IN UNDEVELOPED AREAS EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER.
- E. CLEANOUTS SHALL BE PROVIDED FOR THE SANITARY & STORM SERVICES AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE SANITARY/STORM SERVICE WITH THE CLEANOUT LEG OF THE COMBINATION WYE FACING STRAIGHT UP. THE CLEANOUT SHALL CONSIST OF A 4" VERTICAL PVC PIPE WITH A WATER TIGHT REMOVABLE CLEANOUT PLUG. AN 8" PVC PROST SLEEVE SHALL BE PROVIDED. THE BOTTOM OF THE PROST SLEEVE SHALL TERMINATE 12" ABOVE THE TOP OF THE SANITARY LATERAL. AT LEAST 6" BELOW THE PREDEFINED FROST DEPTH, WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE PROST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN PAVED SURFACES WITH A ZURN (2-1474-N) HEAVY DUTY CLEANOUT HOUSING PLACED OVER THE TOP OF THE CLEANOUT FULSH WITH THE SURFACE GRADE IN PAVED SURFACES. THE PROST SLEEVE SHALL TERMINATE IN A CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES. SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURERS REQUIREMENTS.
- F. ALL PROPOSED WATER PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. 6" MINIMUM COVER SHALL BE PROVIDED OVER ALL WATER PIPING UNLESS OTHERWISE SPECIFIED.
- G. ALL PROPOSED STORM PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. ALL PROPOSED STORM PIPE BELOW BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 8" HORIZONTALLY FROM FOUNDATION WALLS.
- H. SANITARY, STORM, AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.10' OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY DESIGN PLANS AND STATE REQUIREMENTS.
- I. SITE UTILITY CONTRACTOR SHALL RUN SANITARY SERVICE TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN STORM SEWER FOR INTERNALLY DRAINING BUILDINGS TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 6" ABOVE SURFACE GRADE FOR CONNECTION TO DOWNSPOUT TO RISE (DSR) CONNECTIONS. DOWNSPOUTS TO GRADE (DSG) SHALL BE PROVIDED WITH SPLASH BLOCKS AT THE DISCHARGE LOCATION. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUT CONTRACTORS PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERMINE BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION.
- J. ALL UTILITIES SHALL BE INSTALLED WITH PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE). PLASTIC WIRE MAY BE TAPED TO PLASTIC WATER OR SEWER PIPE. IF ATTACHED, THE TRACER WIRE SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET. TRACER WIRE SHALL TERMINATE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL/STATE REQUIREMENTS.
- K. ALL UTILITIES SHALL BE INSTALLED PER STATE, LOCAL, AND INDUSTRY STANDARDS. WATER, SANITARY, AND STORM SEWER SHALL BE INSTALLED PER STANDARD SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN". THE EXCEL ENGINEERING DESIGN ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING STATE PLUMBING REVIEW APPROVAL (IF REQUIRED). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED TO INSTALL WATER, SANITARY AND STORM SEWER.
- L. SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS.

TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE

Utility	Material	Pipe Code	Fitting Code	Joint Code
Sanitary Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Gasket: ASTM F477
		ASTM F2648, ASTM F2306, AASHTO M252, TYPE 5 (4 IN - 10 IN) AASHTO M294, TYPE 5 (12 IN - 60 IN)	ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294	Joint: ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294 Elastomeric Seal: ASTM F477
Storm Sewer	HDPE			Push On: ASTM D3212 for Tightness Elastomeric Seal: ASTM F477
Storm Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034	ASTM F1336	



100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROJECT NO.

DATE

BY

FOR

PROJECT LOCATION

PROJECT DESCRIPTION

CLIENT

DESIGNER

CONTRACTOR

DATE OF ISSUE

REVISIONS

REVISION 1

REVISION 2

REVISION 3

REVISION 4



KEYNOTES	
A	REMOVE
B	PROTECT
C	PROTECT AND RELOCATE STRUCTURE (SEE UTILITY PLAN)
D	SAWCUT (AS NECESSARY) AND REMOVE PAVEMENT
E	CONTRACTOR SHALL CONTACT LOCAL UTILITIES TO REMOVE OVERHEAD ELECTRICAL LINES PRIOR TO CONSTRUCTION AND OBTAIN ANY NECESSARY PERMITS.
F	RELOCATE MEMORIAL TREE. CONTRACTOR TO CONFIRM FINAL LOCATION WITH OWNERS.
G	REMOVE RETAINING WALL
H	REMOVE TREE(S)
I	REMOVE AND RELOCATE FLAGPOLE. CONTRACTOR TO CONFIRM FINAL LOCATION WITH OWNERS.
J	REMOVE STORM PIPING
K	REMOVE LIGHT POLE
M	REMOVE SIGN
N	CAUTION! PROTECT EXISTING WELL. CONTRACTOR TO COORDINATE UPSIZING / RELOCATION WITH WELL DESIGN. CAUTION FOR EXISTING WATER SERVICE LVS BUILDING REROUTE AS NECESSARY.
O	CAUTION! CONTRACTOR TO FIELD VERIFY AND PROTECT ELECTRIC LINE LOCATION AND STRUCTURE. REMOVE AS NECESSARY.
P	CAUTION! EXISTING WELL. CONTRACTOR TO CAP AND ABANDON PER STATE REQUIREMENTS.
Q	REMOVE ALL SANITARY INFRASTRUCTURE TO THE RESIDENCE.
R	REMOVE CULVERT
S	PROTECT EXISTING UNDERGROUND TANK FOR FIRE SUPPRESSION.
T	REMOVE DOOR



Excel
Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES
ISSUED FOR APPROVAL
IFA JUNE 22, 2026

JOB NUMBER
250406900

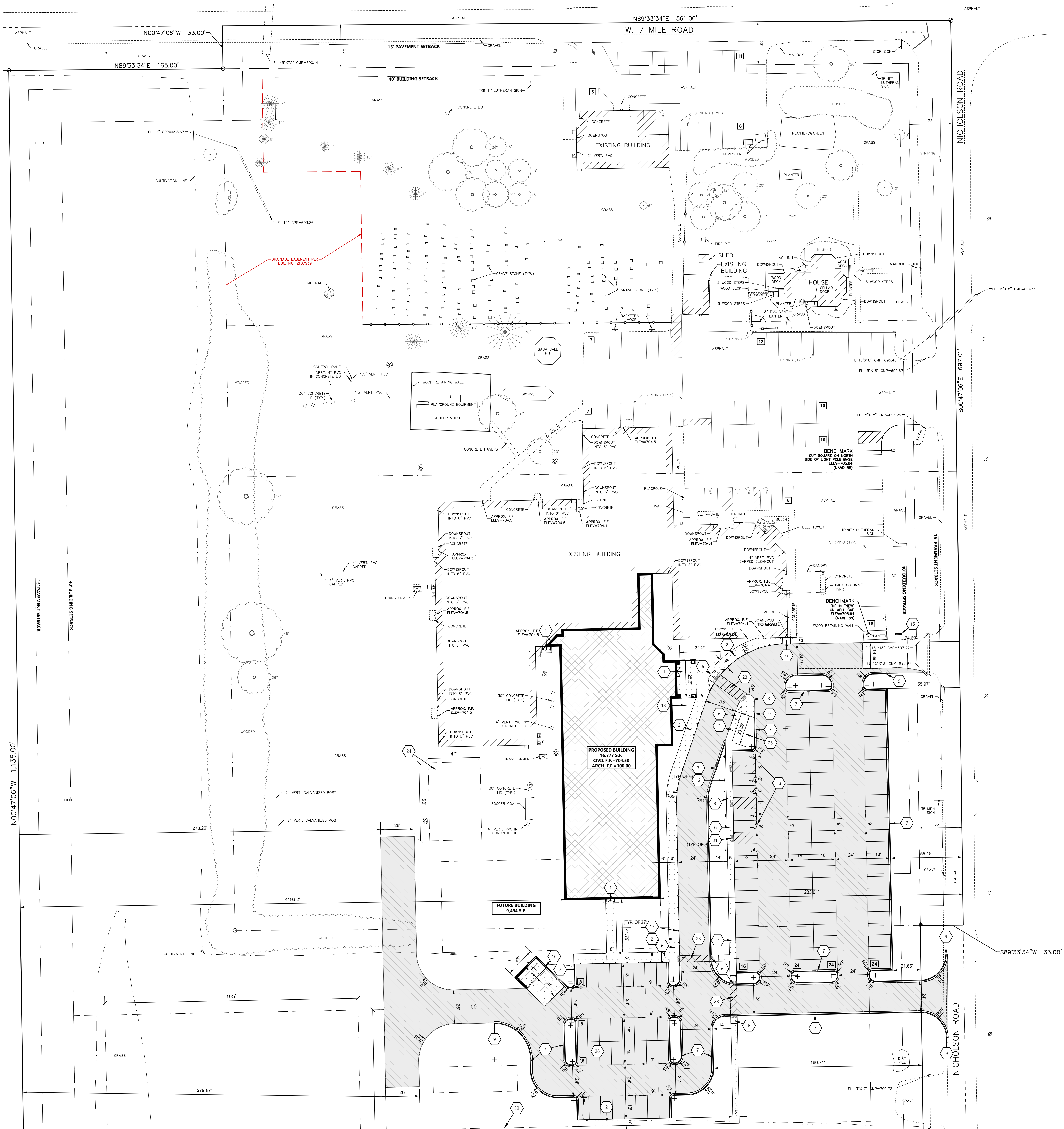
SHEET NUMBER
C1.0

LEGEND:

REMOVE FEATURES

SCALE: 1" = 30'

CIVIL EXISTING SITE AND DEMOLITION PLAN



- GENERAL NOTES:**
- PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY WITH ENGINEER THAT WETLAND DELINEATION HAS BEEN COMPLETED AND THAT NO CONFLICTS EXIST. PROPOSED IMPROVEMENTS ARE LOCATED IN POTENTIAL WETLAND AREAS.
 - CONTRACTOR TO ROUGH GRADE FOR FUTURE SOUTH ATHLETIC FIELD AREAS AND PROVIDE CONDUIT AS NECESSARY. FINAL LOCATION, SIZE, ORIENTATION, AND TYPE OF FIELDS ARE CONCEPTUAL AND TBD.
 - CONTRACTOR TO PROVIDE FENCE AROUND ATHLETIC AREAS.
 - PROVIDE TRASH RECEPTACLES BY PROPOSED LIGHT POLES. SEE C3.1.

SITE INFORMATION:

PROPERTY AREA: 826,965 S.F. (18.98 ACRES).

EXISTING ZONING: P-1 INSTITUTIONAL PARK AND AG-2 AGRICULTURAL

PROPOSED ZONING: P-1 INSTITUTIONAL

EXISTING USE: CHURCH/SCHOOL

PROPOSED USE: CHURCH/SCHOOL

AREA OF SITE DISTURBANCE: 418,668 S.F. (9.61 ACRES)

SETBACKS:

BUILDING: FRONT(EAST) = 40'
SIDE(SOUTH) = 40'
REAR(WEST) = 40'
STREET(NORTH) = 40'

PAVEMENT: FRONT(EAST) = 15'
SIDE(SOUTH) = 15'
REAR(WEST) = 15'
STREET(NORTH) = 15'

PROPOSED BUILDING HEIGHT: 18.25' (MAX. HEIGHT ALLOWED: 50' WITH UP TO 60' PROVIDED ALL YARDS ARE INCREASED NOT LESS THAN 1' FOR EACH FOOT THE STRUCTURE EXCEEDS MAX. HEIGHT REQUIREMENT.)

PARKING REQUIRED:

SCHOOLS: 1 SPACE PER 2 EMPLOYEES (25/2=13 SPACES) + REASONABLE STALLS FOR STUDENTS AND OTHER PARKING (50 SPACES) (13 + 50 = 63 SPACES REQ.)

CHURCHES: 1 PER 5 SEATS (110 SPACES REQ.)

PARKING PROVIDED: 208 SPACE (9 H.C. ACCESSIBLE)

HANDICAP STALLS REQUIRED: 7. HANDICAP STALLS PROVIDED: 11

EXISTING SITE DATA			
	AREA (A/C)	AREA (S/F)	RATIO
BUILDING FLOOR AREA	0.95	41,399	5.0%
PAVEMENT (ASP. & CONC.)	2.13	92,723	11.2%
TOTAL IMPERVIOUS	3.08	134,122	16.2%
LANDSCAPE/ OPEN SPACE	15.91	692,843	83.8%
PROJECT SITE	18.98	826,965	100.0%

PROPOSED SITE DATA			
	AREA (A/C)	AREA (S/F)	RATIO
BUILDING FLOOR AREA	1.28	55,803	6.7%
PAVEMENT (ASP. & CONC.)	3.26	141,975	17.2%
TOTAL IMPERVIOUS	4.54	197,778	23.9%
LANDSCAPE/ OPEN SPACE	14.44	629,187	76.1%
PROJECT SITE	18.98	826,965	100.0%

KEYNOTES	
1	CONCRETE STOOP (SEE STRUCTURAL PLANS FOR DETAILS)
2	RAISED WALK (SEE DETAIL)
3	FLUSH WALK (SEE DETAIL)
6	CURB RAMP (SEE DETAIL)
7	18" CURB & GUTTER (SEE DETAIL)
9	CURB TAPER (SEE DETAIL)
12	HANDICAP SIGN PER STATE CODE (SEE DETAIL)
13	HANDICAP STALL & STRIPING PER STATE CODES
15	MONUMENT SIGN (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR)
16	DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)
17	6" CONCRETE LIGHTED BOLLARDS (TYP.) (SEE ARCH PLANS FOR DETAILS) (COVER COLOR BY OWNER)
18	RELOCATED FLAGPOLE
23	PAINT STRIPING (TYP.). COLOR TO MATCH PARKING STALL STRIPING
24	FUTURE COMMERCIAL GRADE / ACCESSIBLE PLAYGROUND AND GAGA BALL PITS
25	RELOCATED MEMORIAL TREE
26	CONTRACTOR TO COORDINATE SOUTH PARKING LOT STRIPING WITH OWNER TO STRIPE FOR SCHOOL YARD GAMES (BASKETBALL, 4 SQUARE, ETC.)
27	FUTURE BASEBALL DIAMOND WITH BLEACHERS.
28	FUTURE SHOT PUT
29	FUTURE LONG JUMP
30	FUTURE SOCCER FIELD (ALTERNATE TO COMPLETE WITH CURRENT PHASE)
31	DETECTABLE WARNING PLATE PER STATE CODE
32	FENCE (FINAL STYLE, HEIGHT, COLOR BY OWNER)

LEGEND:

HATCH	PAVEMENT SECTION
[Pattern]	STANDARD ASPHALT
[Pattern]	HEAVY DUTY ASPHALT
[Pattern]	SIDEWALK CONCRETE
[Pattern]	DUMPSTER PAD CONCRETE
[Pattern]	INVERTED CURB & GUTTER
[Pattern]	SHEDDING CURB & GUTTER

SCALE: 1" = 30'

30' 0 30' 60'

CIVIL SITE PLAN-NORTH

Excel

Always a Better Plan

100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

ISSUED FOR APPROVAL

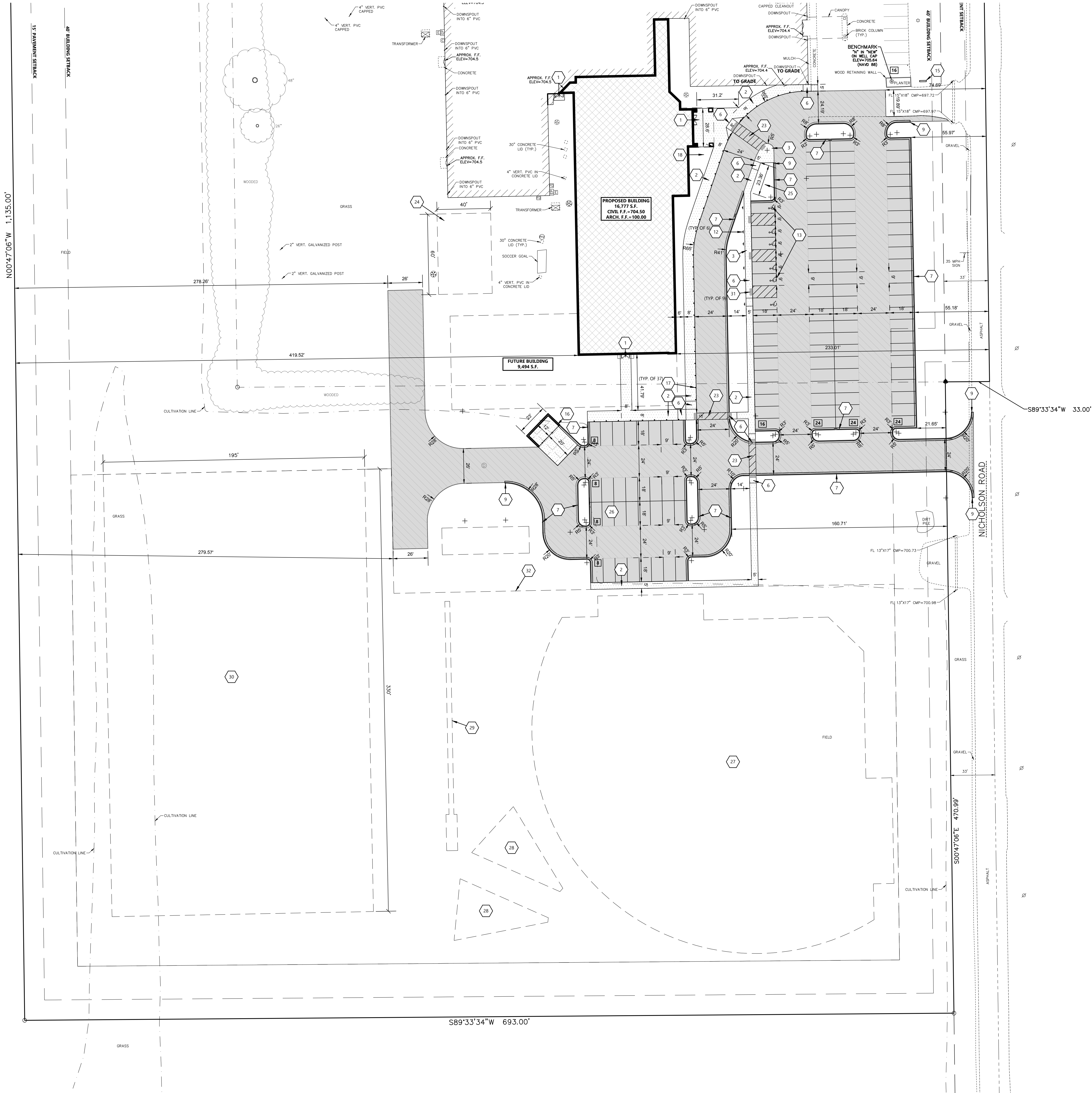
IFA JUNE 22, 2026

JOB NUMBER

250406900

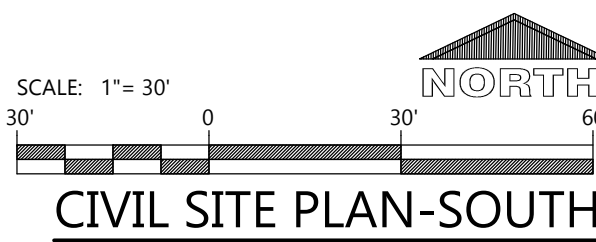
SHEET NUMBER

C1.1A



KEYNOTES	
1	CONCRETE STOOP (SEE STRUCTURAL PLANS FOR DETAILS)
2	RAISED WALK (SEE DETAIL)
3	FLUSH WALK (SEE DETAIL)
6	CURB RAMP (SEE DETAIL)
7	18" CURB & GUTTER (SEE DETAIL)
9	CURB TAPER (SEE DETAIL)
12	HANDICAP SIGN PER STATE CODE (SEE DETAIL)
13	HANDICAP STALL & STRIPING PER STATE CODES
15	MONUMENT SIGN (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR)
16	DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)
17	6" CONCRETE BOLLARDS (TYP.) (SEE ARCH PLANS FOR DETAILS) (COVER COLOR BY OWNER)
18	RELOCATED FLAGPOLE
23	PAINT STRIPING (TYP., COLOR TO MATCH PARKING STALL STRIPING)
24	FUTURE COMMERCIAL GRADE / ACCESSIBLE PLAYGROUND AND GAGA BALL PTS
25	RELOCATED MEMORIAL TREE
26	CONTRACTOR TO COORDINATE SOUTH PARKING LOT STRIPING WITH OWNER TO STRIKE FOR SCHOOL YARD GAMES (BASKETBALL, 4 SQUARE, ETC.)
27	FUTURE BASEBALL DIAMOND WITH BLEACHERS.
28	FUTURE SHOT PUT
29	FUTURE LONG JUMP
30	FUTURE SOCCER FIELD
31	DETECTABLE WARNING PLATE PER STATE CODE
32	FUTURE FENCE

LEGEND:	
HATCH	PAVEMENT SECTION
[Pattern]	STANDARD ASPHALT
[Pattern]	HEAVY DUTY ASPHALT
[Pattern]	SIDEWALK CONCRETE
[Pattern]	DUMPSTER PAD CONCRETE
[Pattern]	INVERTED CURB & GUTTER
[Pattern]	SHEDDING CURB & GUTTER



PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
 7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

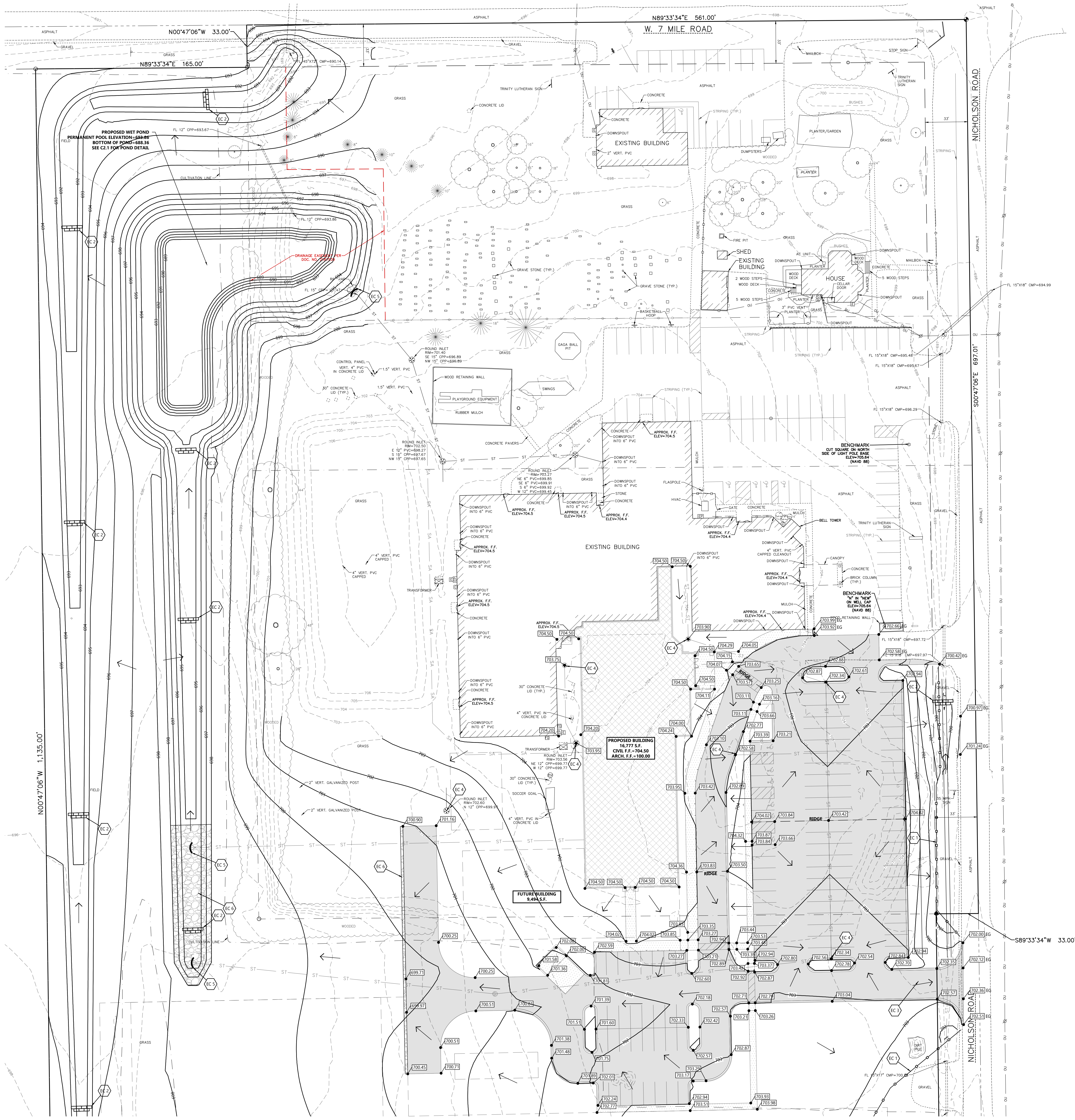
ISSUED FOR APPROVAL
 IFA JUNE 22, 2026

JOB NUMBER

250406900

SHEET NUMBER

C1.1B



- GENERAL NOTES:**
- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION).
 - ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.
 - CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ON-SITE & OFF-SITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.
 - PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY WITH ENGINEER THAT WETLAND DELINEATION HAS BEEN COMPLETED AND THAT NO CONFLICTS EXIST. PROPOSED IMPROVEMENTS ARE LOCATED IN POTENTIAL WETLAND AREAS.

KEYNOTES	
EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	SEDIMENT LOG
EC 6	6" OF D50 RIP RAP OVER FABRIC

EXCEL
Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

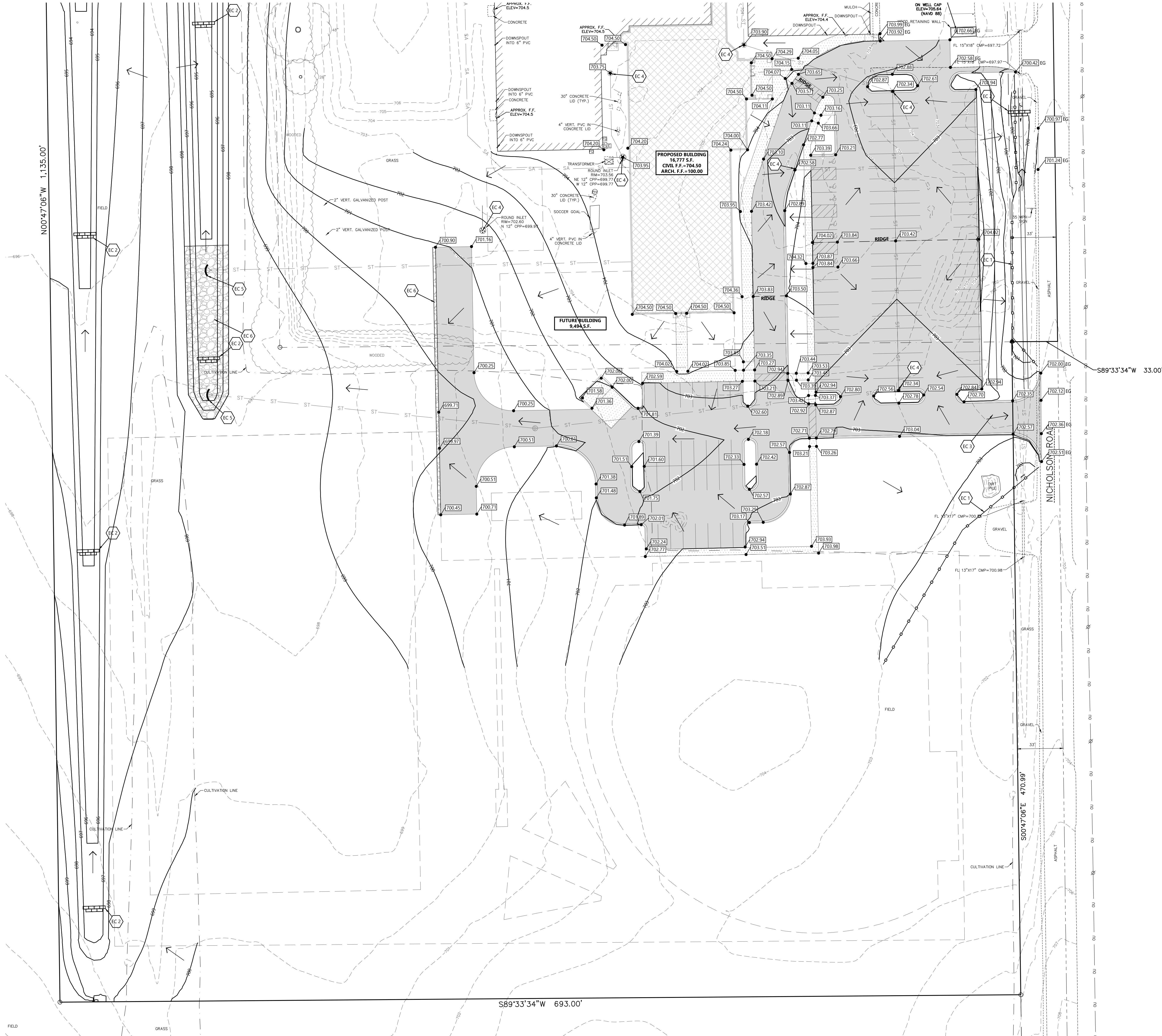
SHEET DATES	
ISSUED FOR APPROVAL	
IFA	JUNE 22, 2026

JOB NUMBER
250406900

SHEET NUMBER
C1.2A



CIVIL GRADING AND EROSION CONTROL PLAN-NORTH



- GENERAL NOTES:**
- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION).
 - ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.
 - CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ON-SITE & OFF-SITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.
 - PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY WITH ENGINEER THAT WETLAND DELINEATION HAS BEEN COMPLETED AND THAT NO CONFLICTS EXIST. PROPOSED IMPROVEMENTS ARE LOCATED IN POTENTIAL WETLAND AREAS.

KEYNOTES

EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	SEDIMENT LOG
EC 6	6" OF D50 RIP RAP OVER FABRIC

EXCEL

Always a Better Plan

100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

ISSUED FOR APPROVAL
IFA JUNE 22, 2026

JOB NUMBER

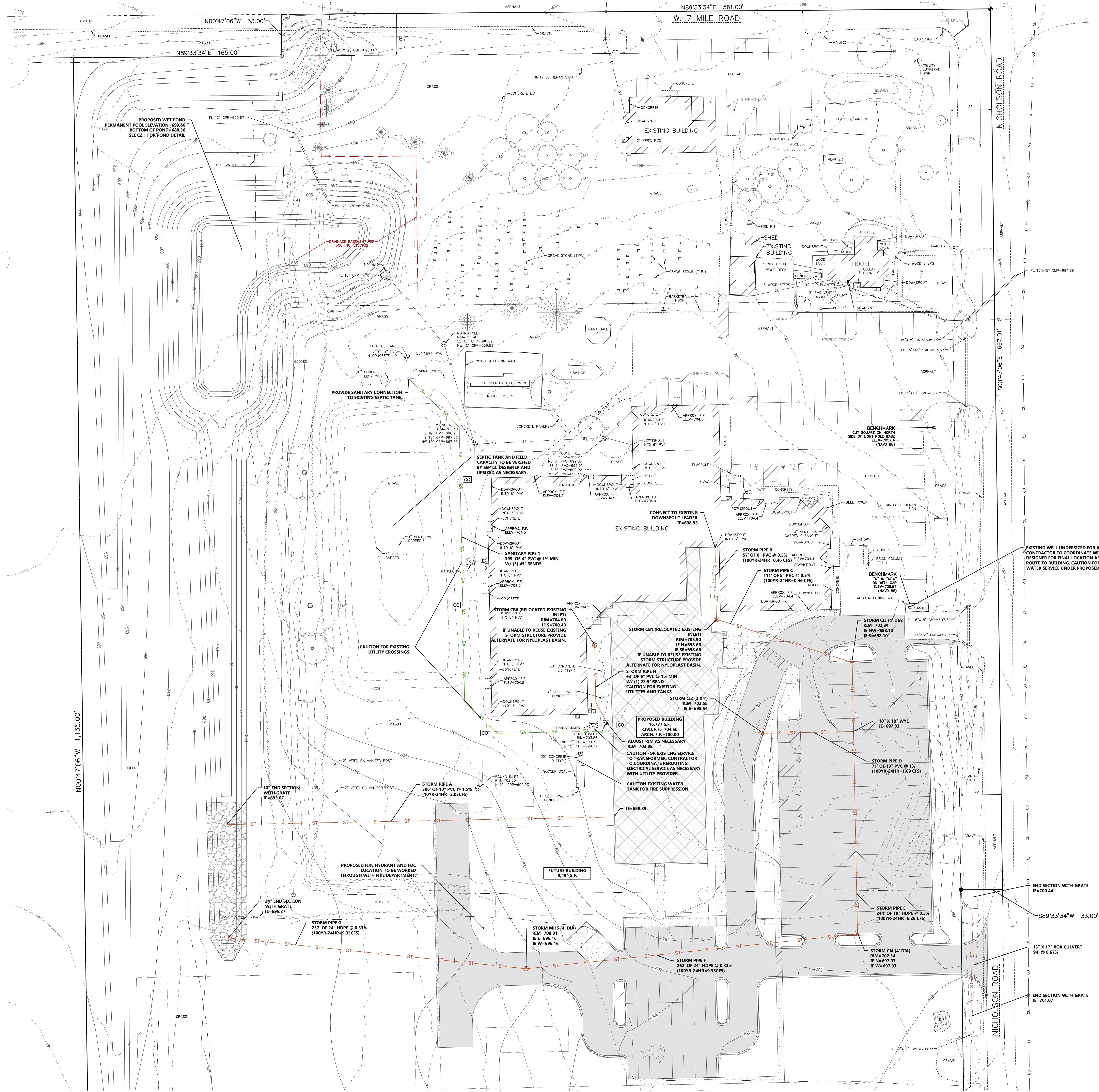
250406900

SHEET NUMBER

C1.2B

SCALE: 1"= 30'

CIVIL GRADING AND EROSION CONTROL PLAN-SOUTH



GENERAL NOTES:

- CAUTION EXISTING UNMARKED UTILITIES EXPECTED UNDERNEATH AREA OF BUILDING ADDITION. CONTRACTOR TO FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
- PRIOR TO CONSTRUCTION CONTRACTOR TO VERIFY WITH ENGINEER THAT WETLAND DELINEATION HAS BEEN COMPLETED AND THAT NO CONFLICTS EXIST. PROPOSED IMPROVEMENTS ARE LOCATED IN POTENTIAL WETLAND AREAS.

EXCEL

Always a Better Plan

100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

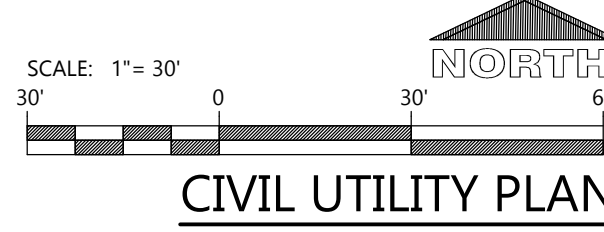
ISSUED FOR APPROVAL
IFA JUNE 22, 2026

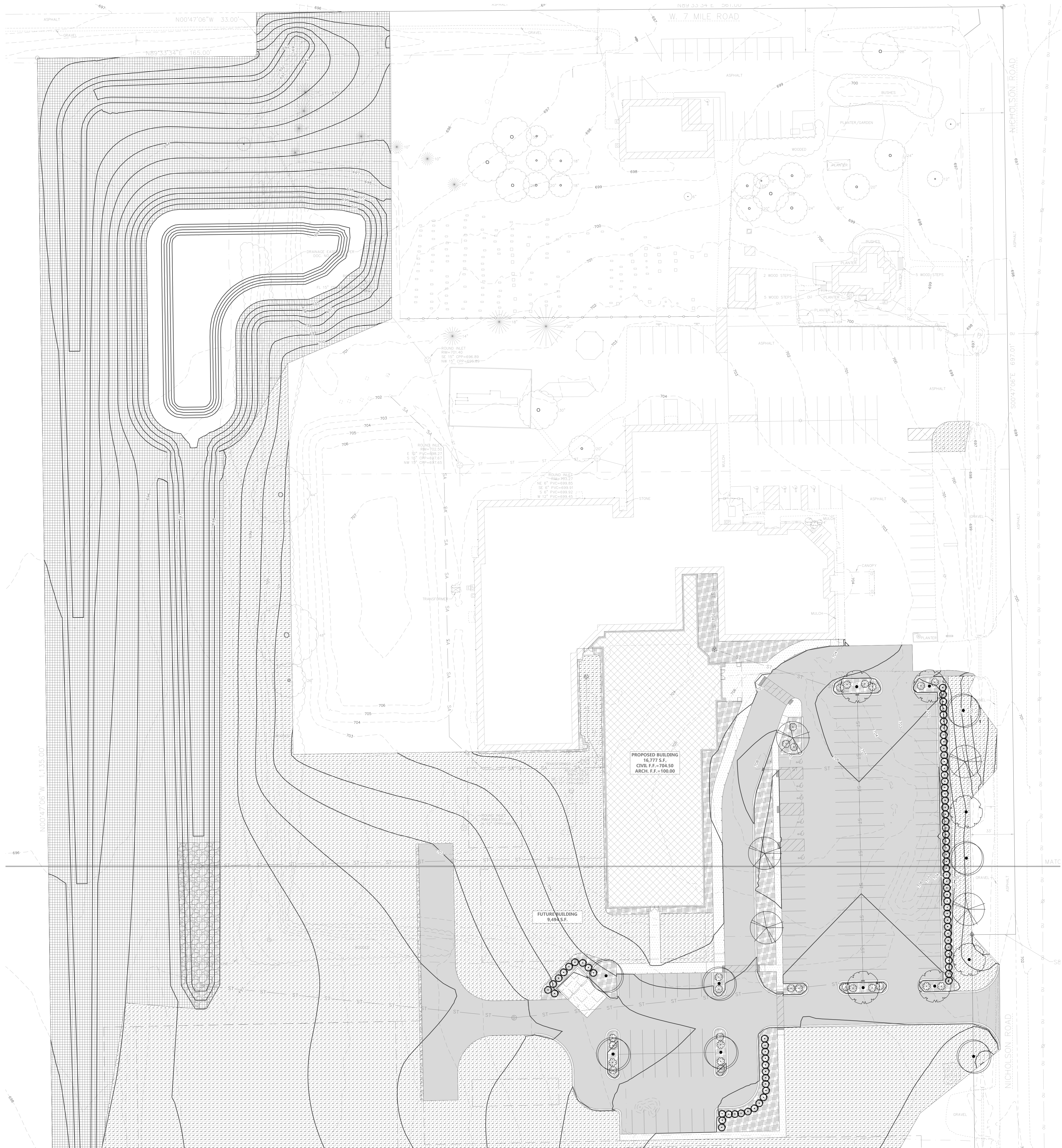
JOB NUMBER

250406900

SHEET NUMBER

C1.3





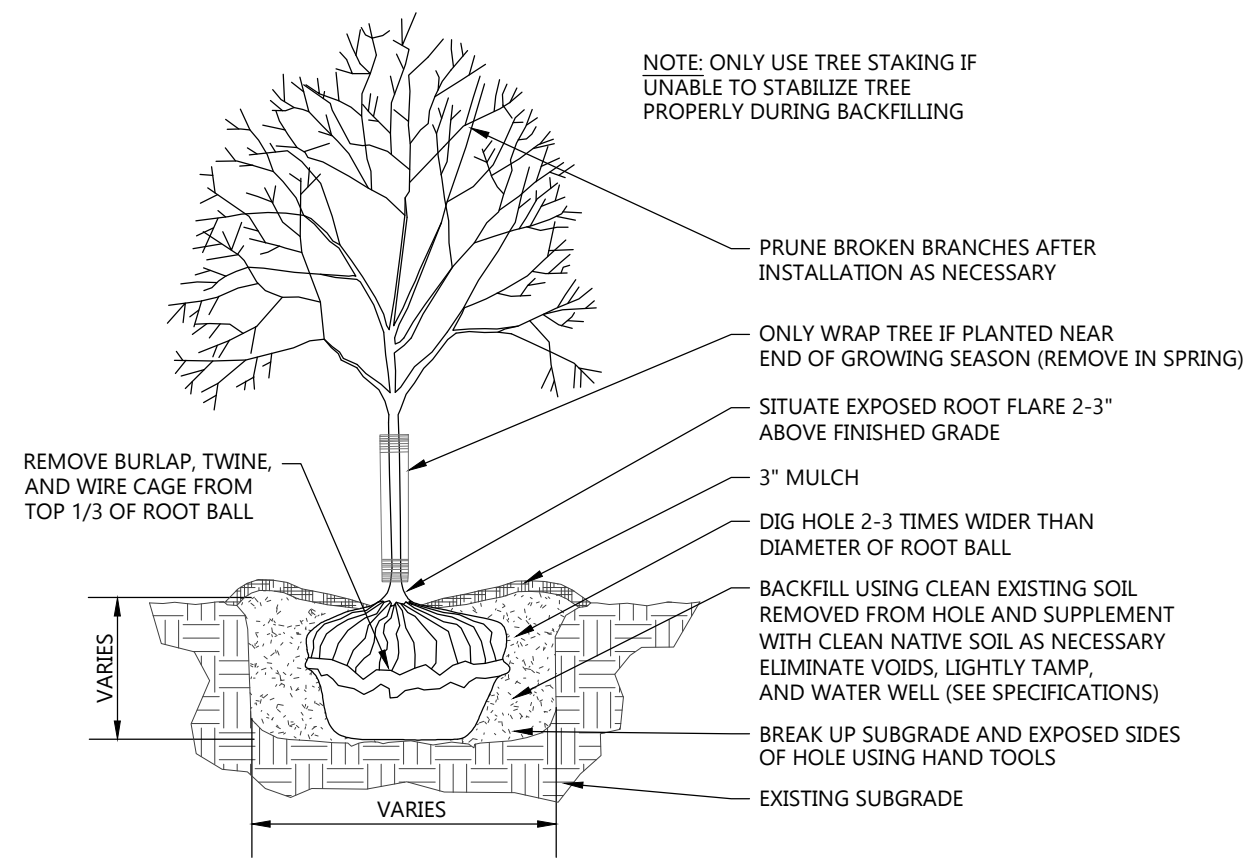
OVERALL PLANT SCHEDULE					
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	ROOT
CANOPY TREES					
	State Street Maple	Acer m'yabi 'Morton'	6	2 1/2" CAL.	B&B
	Autumn Gold Ginkgo	Ginkgo biloba 'Autumn Gold'	7	2 1/2" CAL.	B&B
	American Sentry Linden	Tilia americana 'McKsentry'	5	2 1/2" CAL.	B&B
DECIDUOUS SHRUBS					
	Gro Low Sumac	Rhus aromatica 'Gro Low'	27	24" HT.	CONT.
EVERGREEN SHRUBS					
	Kallay's Compact Juniper	Juniperus chinensis 'Kallay's Compact'	74	24" HT.	CONT.

LANDSCAPING CALCULATIONS		
ZONE	REQ. PLANTS	PLANTS PROVIDED
STREET EDGE	- 1 CANOPY TREE PER 50 LF OF STREET EDGE - 2-3 SPECIES TO BE USED AND PLANTED IN ALTERNATING PATTERN - EVERGREEN HEDGE TO BE PROVIDED ALONG STREET EDGE 325/50 = 6.5 TREES	7 CANOPY TREES EVERGREEN HEDGE
INTERIOR	- LANDSCAPE FEATURES TO BE PROVIDED IN PARKING LOT - LANDSCAPE FEATURES ARE TO BE TREES AND SHRUBS	TREES AND SHRUBS PROVIDED
SCREENING	- PARKING, REFUSE AREAS, WASTE REMOVAL AREAS, SERVICE YARDS, STORAGE YARDS, AND EXTERIOR WORK AREAS TO BE SCREENED FROM PUBLIC WAYS BY LANDSCAPING/GRADING/FENCING	SCREENING PROVIDED
TREE REMOVAL INVENTORY	- IDENTIFY ALL TREES INVENTORIED WHICH ARE TO BE MOVED OR DESTROYED	3" - 1 DEC. 4" - 1 DEC. 10" - 1 DEC. 12" - 1 DEC. 14" - 1 DEC. 16" - 1 DEC. 18" - 2 EVG. 20" - 1 DEC. 24" - 1 DEC. 36" - 1 DEC. 48" - 1 DEC.

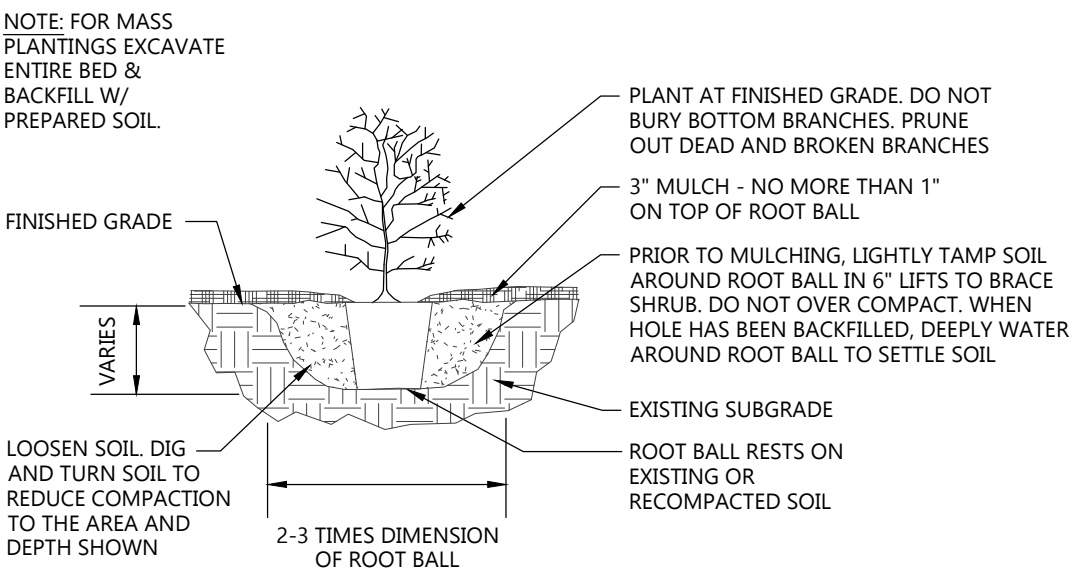
GENERAL NOTES:

- SEE SHEET C0.2 FOR LANDSCAPE SPECIFICATIONS.
- ALL BARE DISTURBED SOIL OUTSIDE OF MULCH AREAS TO BE SEEDED.

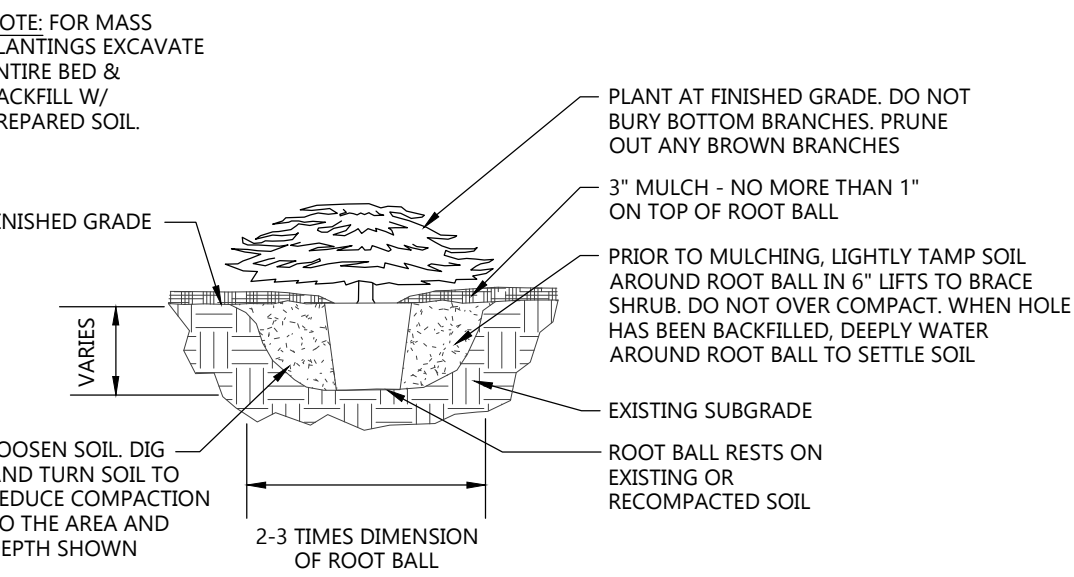
HATCH KEY:	
HATCH	LANDSCAPE MATERIAL
	ORGANIC MULCH (12,922 SF)
	SEEDED LAWN (207,443 SF)
	EROSION MATTING (NAG C125) OVER SEEDED LAWN (SWALE BOTTOMS & SWM) (128,162 SF)



DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



DECIDUOUS SHRUB PLANTING DETAIL
NOT TO SCALE



EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE



CIVIL LANDSCAPE AND RESTORATION PLAN - NORTH

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

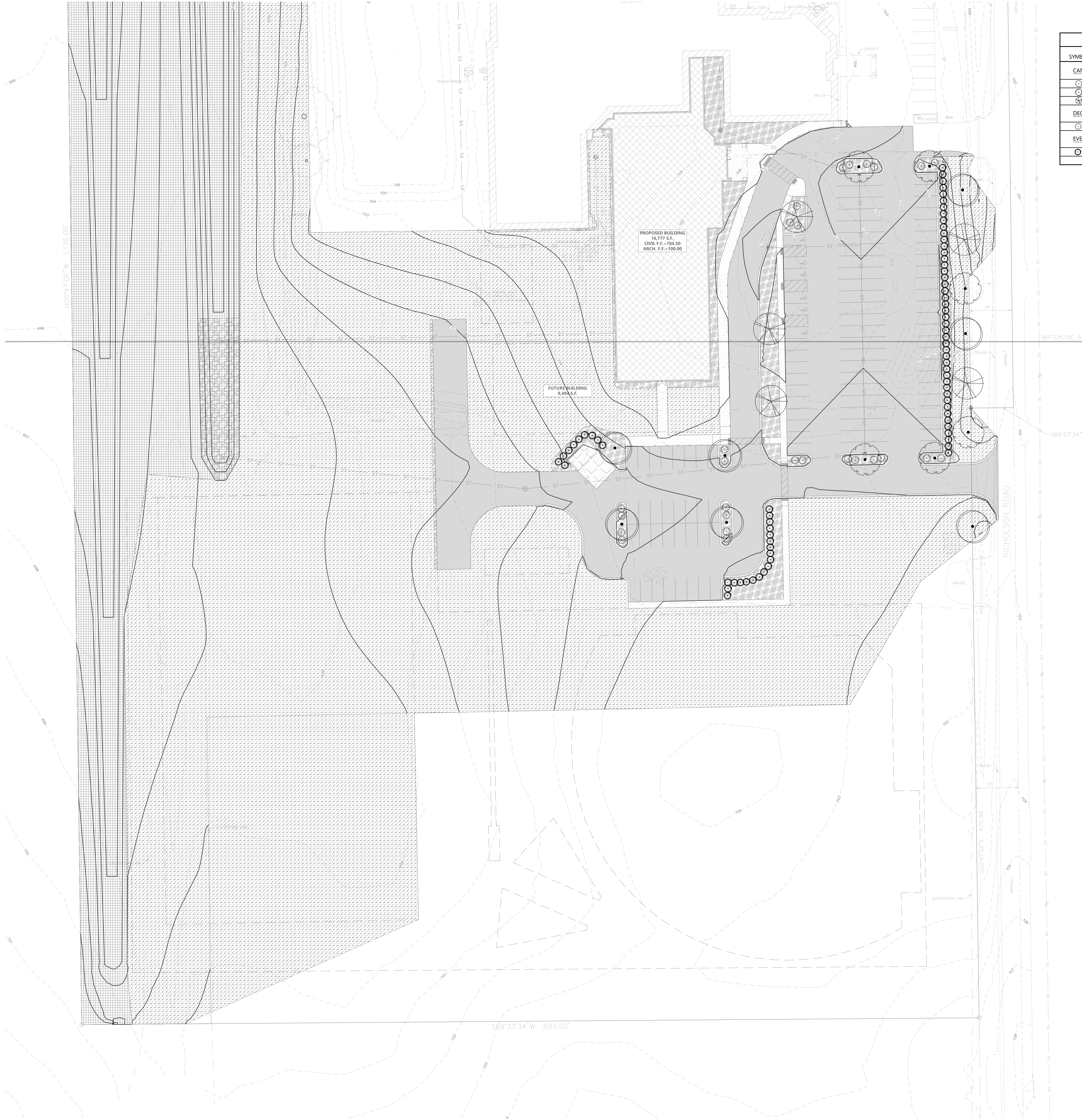
ISSUED FOR APPROVAL
IFA JUNE 22, 2026

JOB NUMBER

250406900

SHEET NUMBER

C1.4A

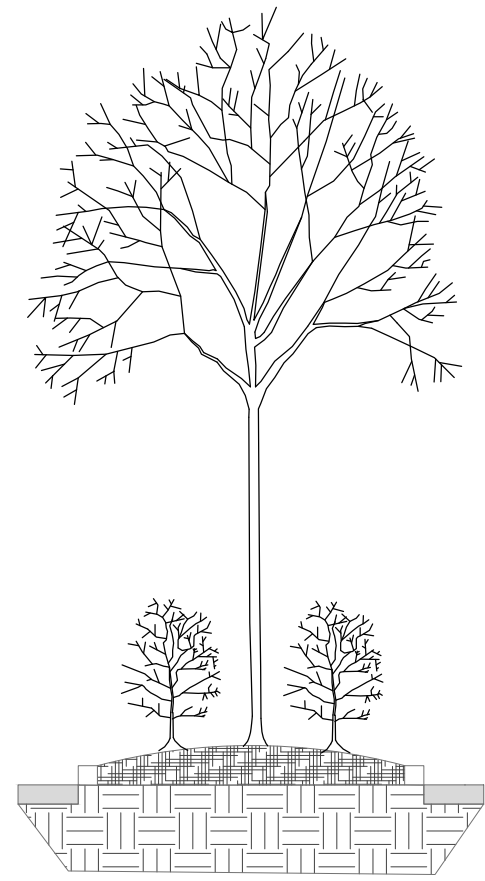


OVERALL PLANT SCHEDULE					
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	ROOT
CANOPY TREES					
	State Street Maple	Acer mnyabi 'Morton'	6	2 1/2" CAL.	B&B
	Autumn Gold Ginkgo	Ginkgo biloba 'Autumn Gold'	7	2 1/2" CAL.	B&B
	American Sentry Linden	Tilia americana 'McKsentry'	5	2 1/2" CAL.	B&B
DECIDUOUS SHRUBS					
	Gro Low Sumac	Rhus aromatica 'Gro Low'	27	24" HT.	CONT.
EVERGREEN SHRUBS					
	Kallay's Compact Juniper	Juniperus chinensis 'Kallay's Compact'	74	24" HT.	CONT.

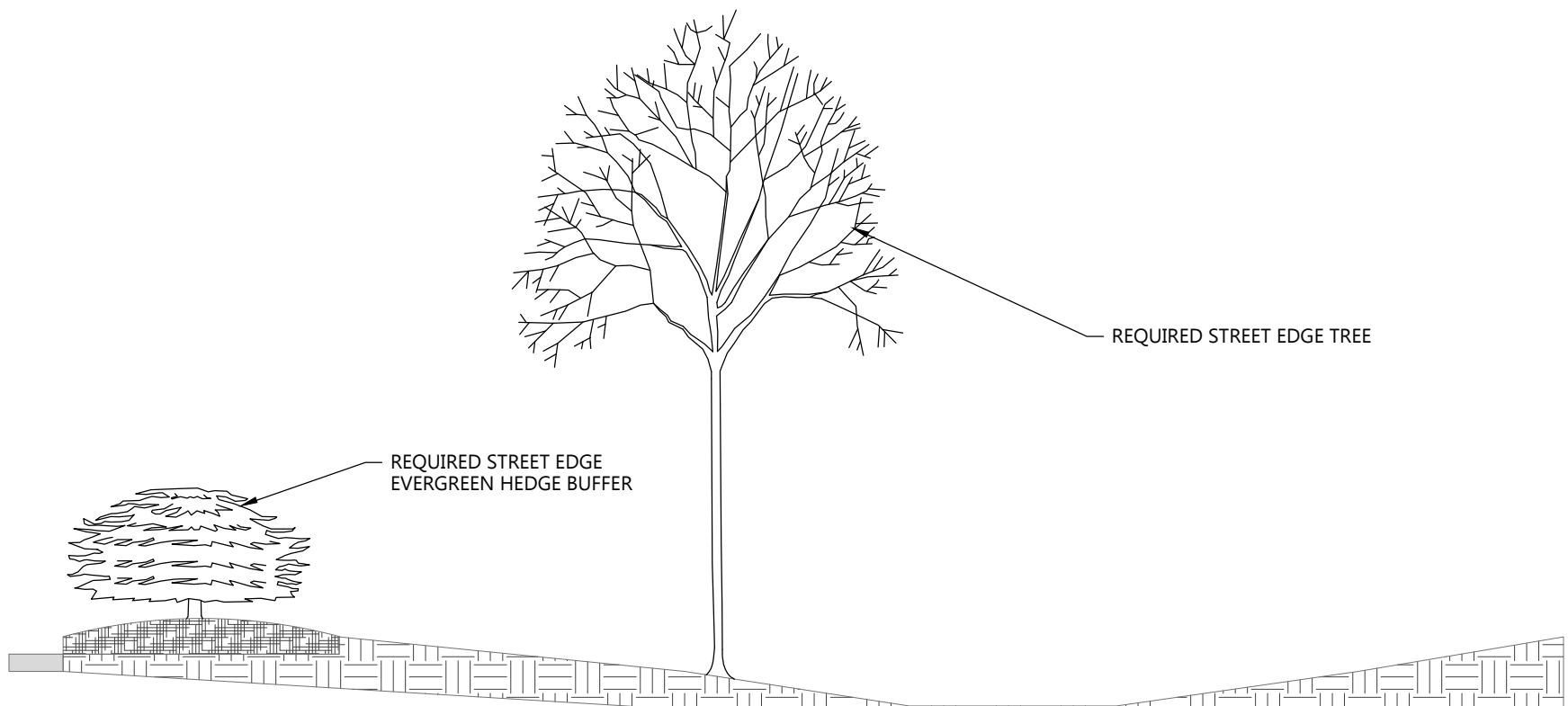
LANDSCAPING CALCULATIONS		
ZONE	REQ. PLANTS	PLANTS PROVIDED
STREET EDGE	- 1 CANOPY TREE PER 50 LF OF STREET EDGE - 2-3 SPECIES TO BE USED AND PLANTED IN ALTERNATING PATTERN - EVERGREEN HEDGE TO BE PROVIDED ALONG STREET EDGE 325/50 = 6.5 TREES	7 CANOPY TREES EVERGREEN HEDGE
INTERIOR	- LANDSCAPE FEATURES TO BE PROVIDED IN PARKING LOT - LANDSCAPE FEATURES ARE TO BE TREES AND SHRUBS	TREES AND SHRUBS PROVIDED
SCREENING	- PARKING, REFUSE AREAS, WASTE REMOVAL AREAS, SERVICE YARDS, STORAGE YARDS, AND EXTERIOR WORK AREAS TO BE SCREENED FROM PUBLIC WAYS BY LANDSCAPING/GRADING/FENCING	SCREENING PROVIDED
TREE REMOVAL INVENTORY	- IDENTIFY ALL TREES INVENTORIED WHICH ARE TO BE MOVED OR DESTROYED	3" - 1 DEC. 4" - 1 DEC. 10" - 1 DEC. 12" - 1 DEC. 14" - 1 DEC. 16" - 1 DEC. 18" - 2 EVG. 20" - 1 DEC. 24" - 1 DEC. 36" - 1 DEC. 48" - 1 DEC.

- GENERAL NOTES:
- SEE SHEET C0.2 FOR LANDSCAPE SPECIFICATIONS.
 - ALL BARE DISTURBED SOIL OUTSIDE OF MULCH AREAS TO BE SEEDED.

HATCH KEY:	
HATCH	LANDSCAPE MATERIAL
	ORGANIC MULCH (12,922 SF)
	SEEDED LAWN (207,443 SF)
	EROSION MATTING (NAG C125) OVER SEEDED LAWN (SWALE BOTTOMS & SWM) (128,162 SF)



PARKING ISLAND DETAIL SECTION
SCALE: 1" = 5'



RIGHT-OF-WAY SCREENING BUFFER DETAIL SECTION
SCALE: 1" = 5'



CIVIL LANDSCAPE AND RESTORATION PLAN - SOUTH

Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

ISSUED FOR APPROVAL
IFA JUNE 22, 2026

JOB NUMBER

250406900

SHEET NUMBER

C1.4B

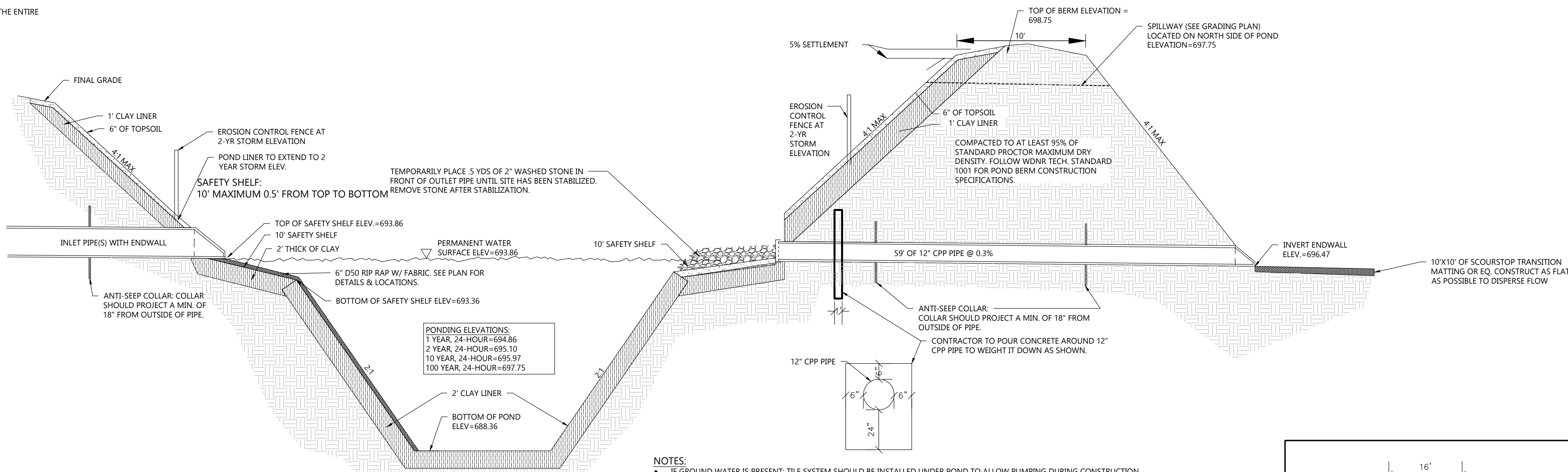
STEP 1:
VERIFY CLAY SOILS UNDERNEATH
POND EXPANSION. IF NO CLAY SOILS
PRESENT PROVIDE TYPE B LINER.

TYPE B

- POND LINER CRITERIA FOR SAFETY SHELF AND BELOW (CLAY):
- 50% FINES (200 SIEVE) OR MORE.
 - AN IN-PLACE HYDRAULIC CONDUCTIVITY OF 1×10^{-4} CM/SEC. OR LESS.
 - AVERAGE LIQUID LIMIT VALUE OF 16 OR GREATER, WITH NO VALUE LESS THAN 14.
 - AVERAGE PI OF 7 OR MORE WITH NO VALUES LESS THAN 5.
 - CLAY COMPACTION AND DOCUMENTATION AS SPECIFIED IN NRCS WISCONSIN CONSTRUCTION SPECIFICATION 204, EARTHWORK FOR WASTE STORAGE FACILITIES.
 - MINIMUM THICKNESS OF TWO FEET.
 - SPECIFY METHOD FOR KEEPING POOL FULL OR USE OF COMPOSITE SOILS BELOW LINER.

- POND LINER ALTERNATE:
- CONTRACTOR TO PROVIDE 40 MIL/HDPE POND LINER IN LIEU OF CLAY LINER TO LINE ENTIRE POND AREA UP TO THE 2 YEAR, 24-HOUR WATER PONDING ELEVATION (SEE ELEVATION ON DETAIL).
 - DESIGN ACCORDING TO THE CRITERIA IN TABLE 3 OF THE NRCS 313, WASTE STORAGE FACILITY TECHNICAL STANDARD.
 - INSTALL ACCORDING TO NRCS WISCONSIN CONSTRUCTION SPECIFICATION 202, POLYETHYLENE GEOMEMBRANE LINING.

4-6" ROUND STONE OVER FILTER FABRIC SHALL BE PROVIDED TO COVER THE ENTIRE LINER. TOP OF STONE SHALL MATCH PROPOSED POND ELEVATIONS.



WET RETENTION POND

NOT TO SCALE

NOTES:

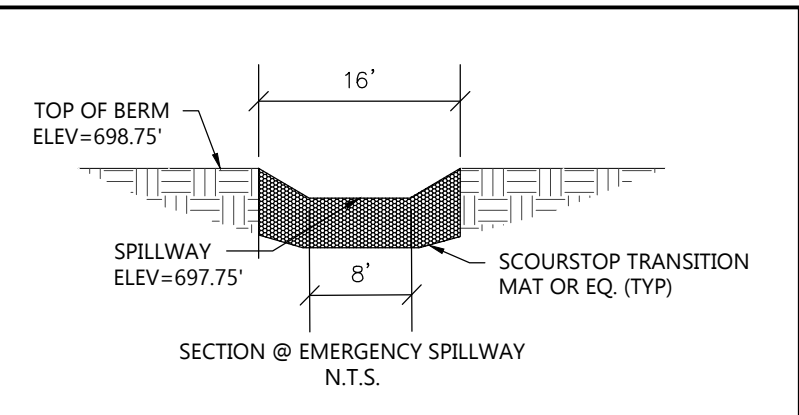
- IF GROUND WATER IS PRESENT, TILE SYSTEM SHOULD BE INSTALLED UNDER POND TO ALLOW PUMPING DURING CONSTRUCTION.
- A LINING BASE SHALL BE PREPARED ON THE BOTTOM AND SLOPES OF THE AREA ARE TO BE LINED.
- LINING BASE MATERIAL SHALL BE FREE OF ALL SHARP OBJECTS, ROOTS GRASS AND VEGETATION.
- THE BASE MATERIAL SHALL BE NATIVE MATERIALS OR MATERIALS OBTAINED FROM A BORROW SOURCE COMPACTED TO A MIN. OF 95% COMPACTING OR AN APPROVED CONSTRUCTION FABRIC.
- THE SURGRADE SHALL BE PREPARED IMMEDIATELY PRIOR TO THE PLACING OF THE LINER. THE SURFACE ON WHICH THE LINER IS TO BE PLACED IS TO BE FIRM, CLEAN, DRY AND SMOOTH.
- AT END OF SITE CONSTRUCTION, POND DEPTH SHALL BE CHECKED FOR SEDIMENTATION AND DREDGED, IF NECESSARY, TO THE DESIGN DEPTH ORIGINALLY PROPOSED.
- CONTRACTOR SHALL PROVIDE EROSION MATTING AS REQUIRED PER SPECIFICATIONS NOTED ON C0.2.
- CONTRACTOR TO CONTACT EXCEL ENGINEERING TO COMPLETE AN AS-BUILT SURVEY FOLLOWING COMPLETION OF THE CONSTRUCTION OF THE STORMWATER POND. THE SURVEY SHALL BE COMPLETED PRIOR TO THE POND FILLING WITH WATER. CONTRACTOR SHALL GIVE EXCEL ENGINEERING A MINIMUM OF A 3 DAY NOTICE. PLEASE NOTE THAT THE HORIZONTAL TOLERANCE FOR POND CONSTRUCTION IS 0.50' AND THE VERTICAL TOLERANCE FOR POND, OUTLET, AND SPILLWAY CONSTRUCTION IS 0.10'. ANY ADDITIONAL WORK REQUIRED TO SURVEY A POND FULL OF WATER OR FOR SURVEYING FOLLOWING REWORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

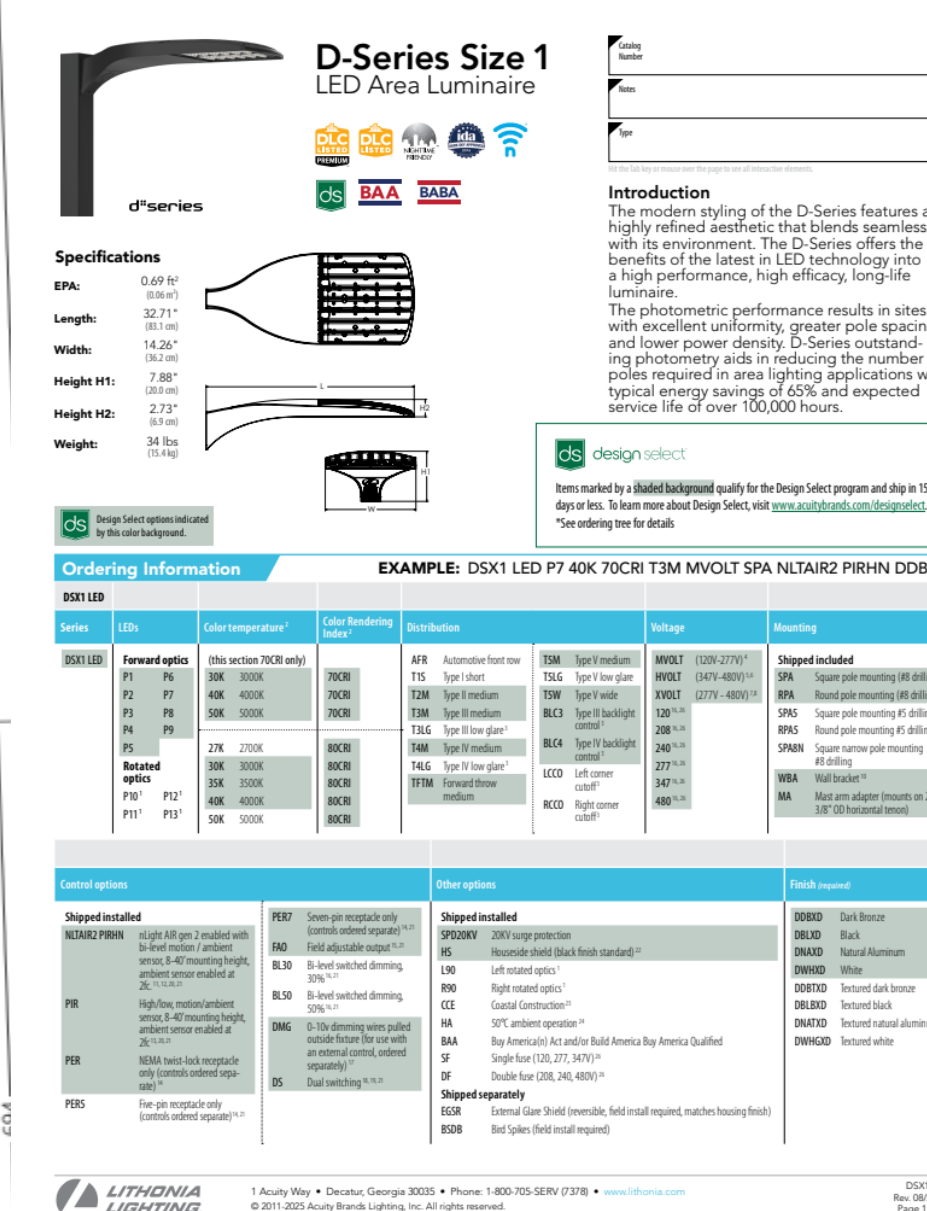
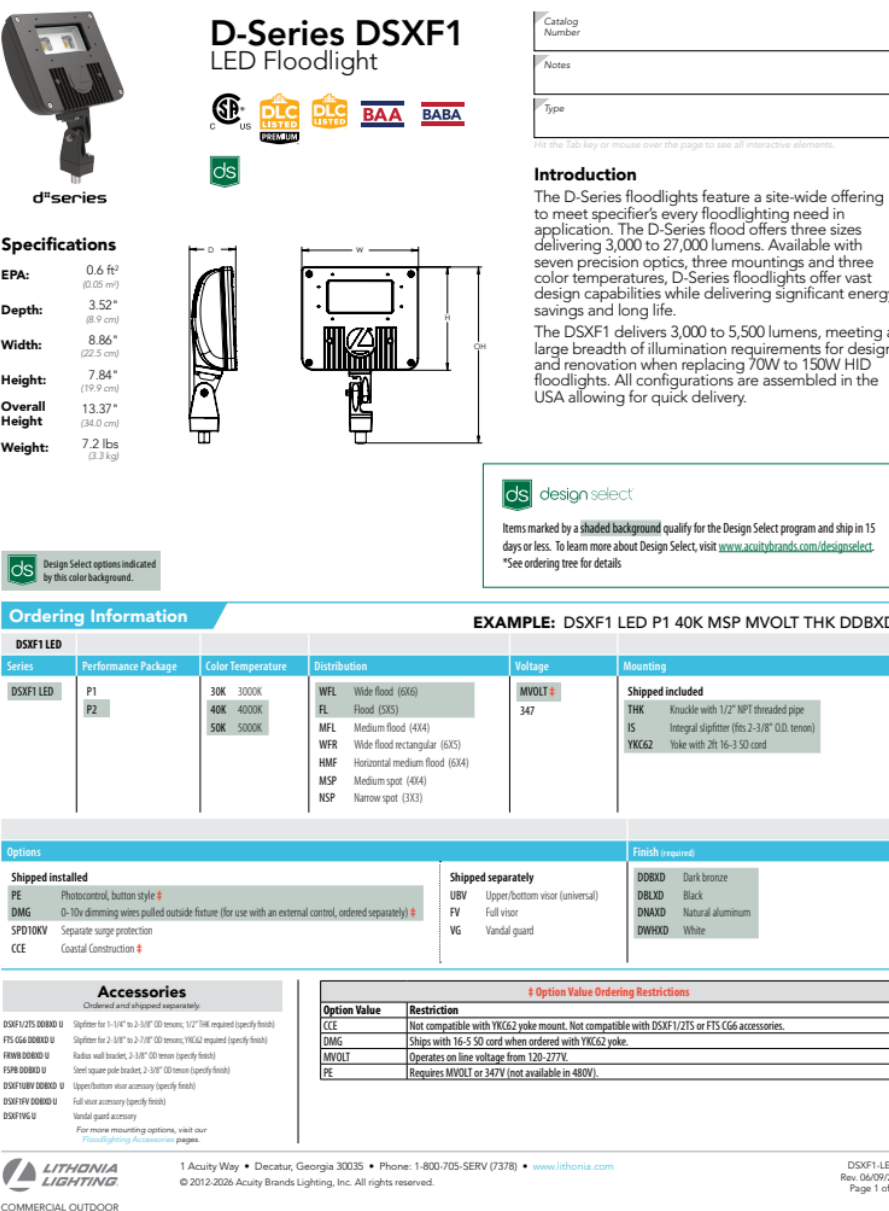
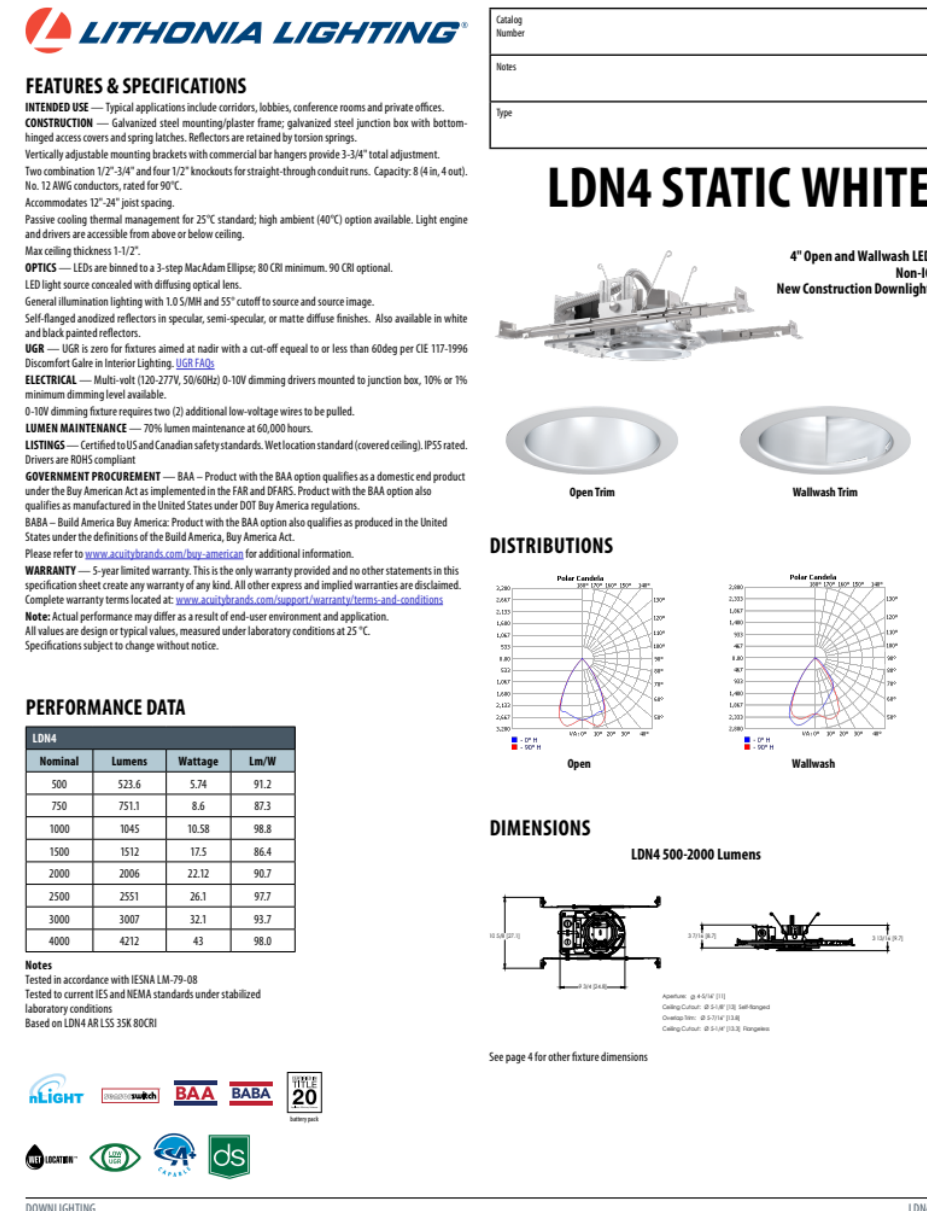
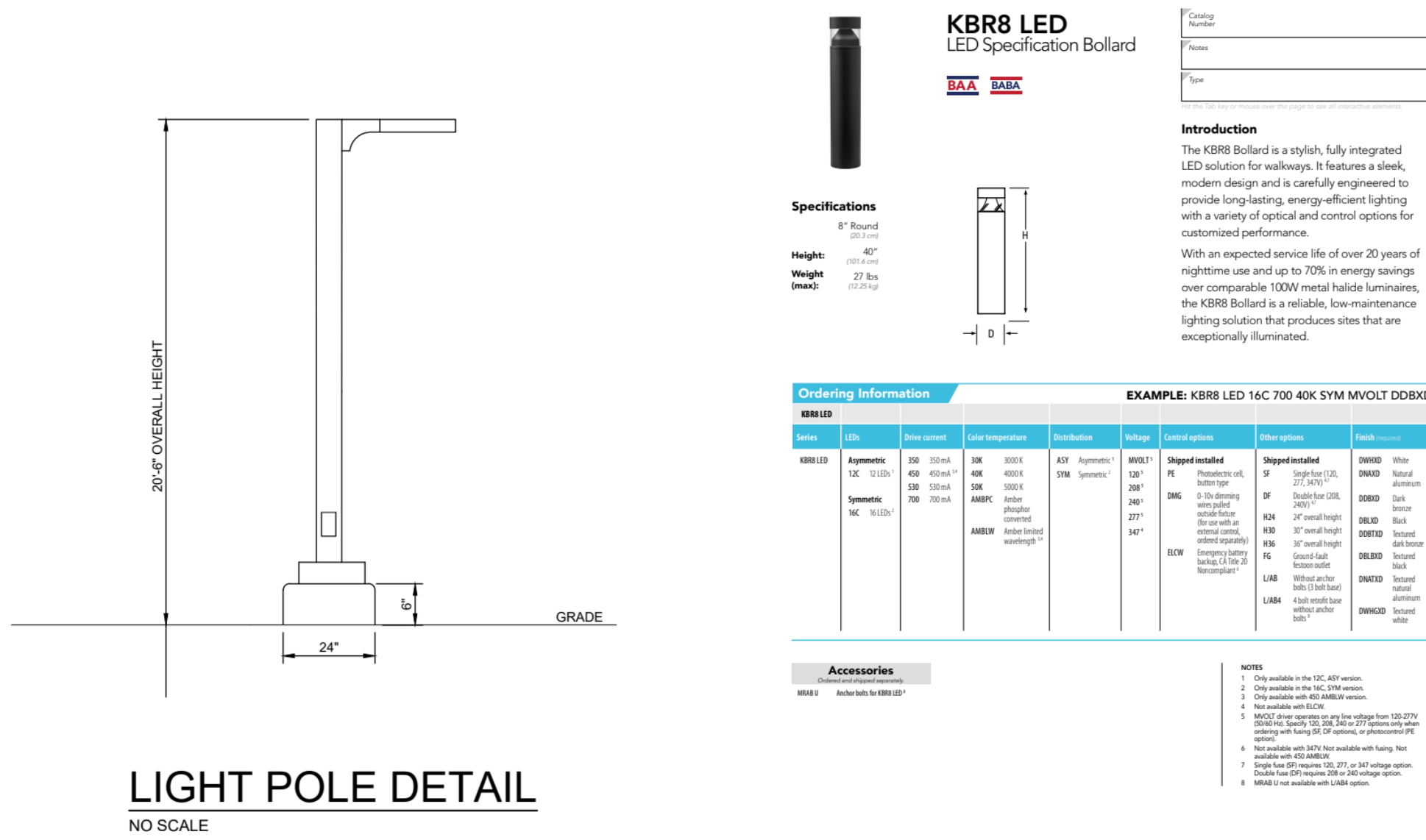
OVERALL STORMWATER FACILITY DETAIL

NOT TO SCALE

(NORTH) EMERGENCY
SPILLWAY DETAIL

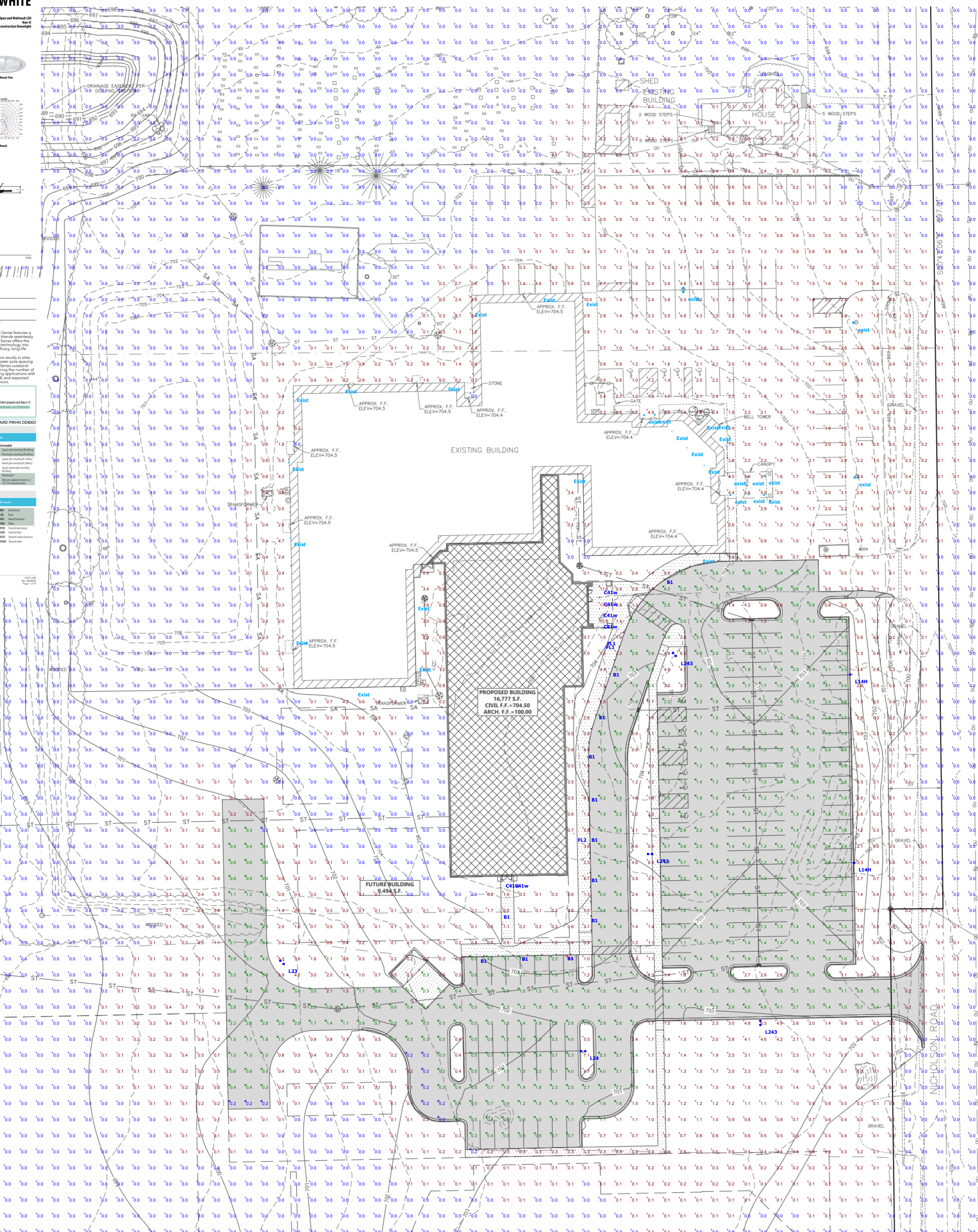
NOT TO SCALE





Schedule					
Symbol	Label	Catalog Number	Description	Wattage	
	L14H	DSX1 LED P4 40K 80CRI TFTM HS	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Forward Throw HouseSide Shield	123.9373	
	L23	DSX1 LED P4 40K 80CRI T3M	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Type 3 Medium	247.88	
	L24	DSX1 LED P4 40K 80CRI TFTM	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Forward Throw	247.88	
	L243	[...]	[...]	247.88	
		DSX1 LED P4 40K 80CRI T3M	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Type 3 Medium	123.94	
	C41w	LDN4 40/10 LO4 AR LSS	41N LDN, 4000K, 1000LM, CLEAR, SEMI-SPECULAR REFLECTOR, 80CRI	10.58	
	B1	KBR8 LED 16C 350 40K SYM MVOLT	KBR8 WITH 4 LIGHT BOARDS (16 LEDs), 350mA DRIVER, 4000K COLOR TEMP, AND SYMMETRIC OPTIC	20	
	FL1	DSXF1 LED P2 40K NSP	DSXF1 LED P2 40K NSP	42	
	FL2	DSXF1 LED P2 40K MFL	DSXF1 LED P2 40K MFL	42	

Statistics						
Description	Symbol	Avg	Max/Min	Avg/Min	Max	Min
Calc Zone #1	+	0.6 fc	N/A	N/A	17.5 fc	0.0 fc
Stat Zone # 2	X	1.7 fc	40.0:1	8.5:1	8.0 fc	0.2 fc



EXCEL

Always a Better Plan

100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED ADDITION FOR:
TRINITY LUTHERAN
7900 NICHOLSON ROAD • CALEDONIA, WI 53108

PROFESSIONAL SEAL

SHEET DATES

ISSUED FOR APPROVAL

IFA JUNE 22, 2026

JOB NUMBER

250406900

SHEET NUMBER

C3.1