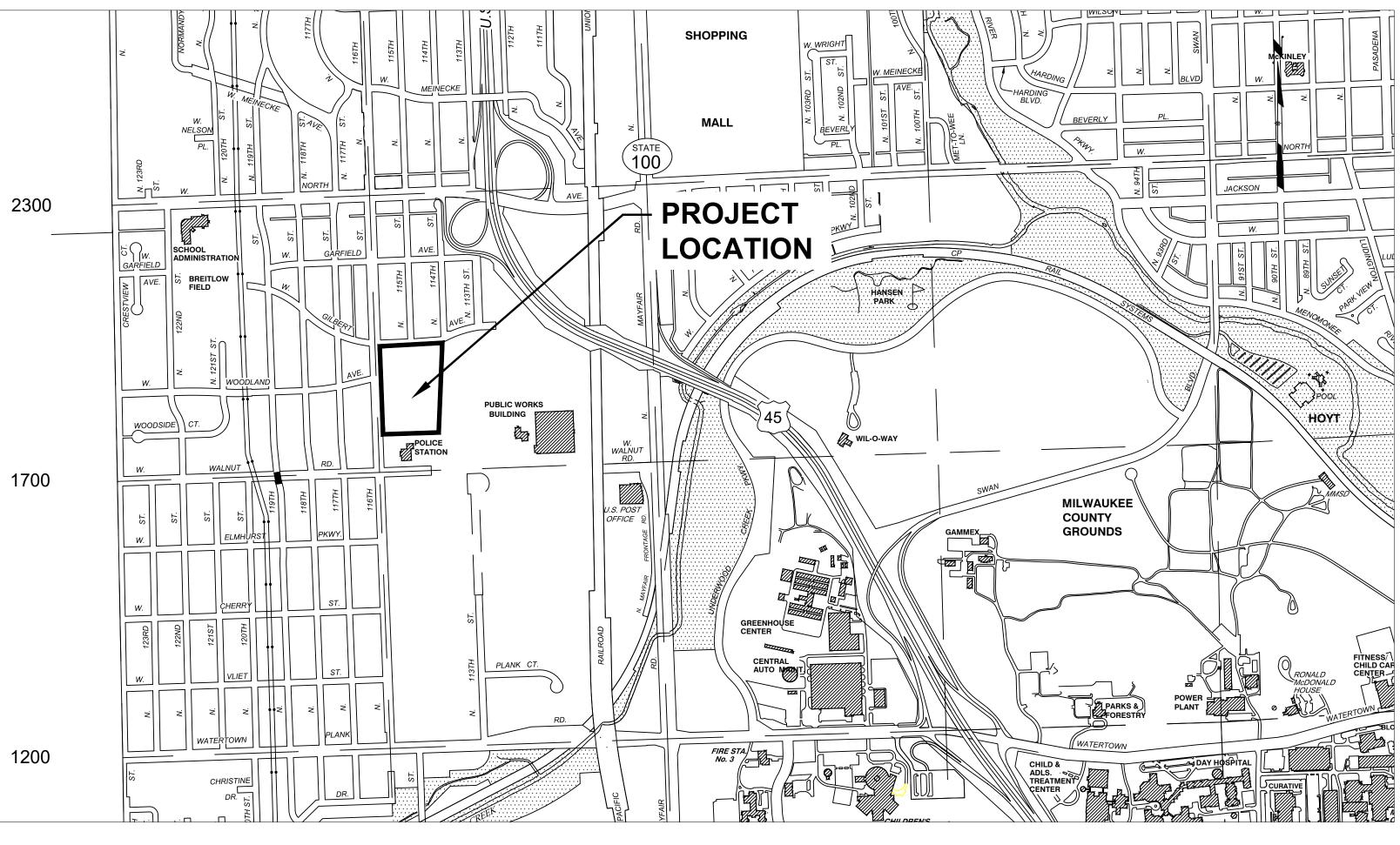
	Single Source. Sound Solutions. GROUP www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210
SHEET NO:	DESCRIPTION
C 001	SITE SURVEY
C 002	EROSION CONTROL AND SITE PREPARATION PLAN
C 100	OVERALL SITE PLAN
C 200	GRADING PLAN
C 201	DETAILED GRADING PLAN
C 202	DETAILED GRADING PLAN
C 300	UTILITY PLAN
C 400	EROSION CONTROL DETAILS
C 401	PAVING DETAILS
C 402	UTILITY DETAILS
C 403	SITE DETAILS
C 404	GI CROSS SECTION DETAIL
C 500-502	SPECIFICATIONS

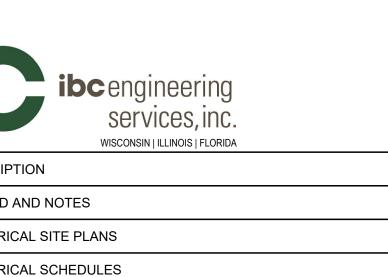
SHEET NO:	DESCRIPTION	
L002	OVERALL SITE PLAN (FOR REFERENCE ONLY)	
L003	GENERAL NOTES	1700
L008	TREE PRESERVATION AND DEMOLITION PLAN	
L101	LANDSCAPE SITE PLAN	
L101A.1	LANDSCAPE SITE PLAN ENLARGEMENT	
L101A.2	LANDSCAPE PLAN ENLARGEMENT	
L102A.2	PLAYGROUND GRADING PLAN ENLARGEMENT	
L103A.1	HARDSCAPE PLAN ENLARGEMENT	
L103A.2	HARDSCAPE PLAN ENLARGEMENT	
L104A.1	SITE FURNISHINGS PLAN ENLARGEMENT	
L104A.2	PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY)	
L105	SOILS PLAN	
L106	PLANTING PLAN	1200
L106A	PLANTING PLAN ENLARGMENT	
L106B	PLANTING PLAN ENLARGMENT	
L106C	PLANTING PLAN ENLARGMENT	
L106A.1	PLANTING PLAN ENLARGMENT	
L106A.2	PLANTING PLAN ENLARGMENT	
L501	PRESERVATION AND DEMOLITION DETAILS	
L503	HARDSCAPE DETAILS	
L503A	HARDSCAPE DETAILS	
L503B	HARDSCAPE DETAILS	
L503C	HARDSCAPE DETAILS	
L503D	HARDSCAPE DETAILS	SF
L503E	HARDSCAPE DETAILS	E
L504	SITE FURNISHING DETAILS	E
L504A	SITE STRUCTURES	
L504B	PLAYGROUND DETAILS	E
L504C	PLAYGROUND FURNISHING RENDERINGS (FOR REFERENCE ONLY)	
L506	PLANTING DETAILS	
L506A	PLANTING DETAILS	
L603	HARDSCAPE SCHEDULE	
L604	SITE FURNISHING SCHEDULE	
L606	PLANTING SCHEDULE	
L1000	IRRIGATION PLAN	



SHEET NO:	DESCRIP
E 000	LEGEND
E 100	ELECTRI
E 500	ELECTRI

CITY OF WAUWATOSA <u>CONTRACT 24-02</u> 116TH STREET PARK

CITY PROJECT #8045 SIGMA PROJECT #21231



DATE	CITY CLERK		
SUBMITTED FOR APPROVAL:			
JANUARY 5, 2024	CITY ENGINEER		
DATE	REG. PROF. ENGR.		
CITY OF WAUWATOSA ENGINEERING SERVICES DIVISION			
116TH STREET PARK			
1900 N. 116TH STREET			
SCALE: AS NOTED	SHEETS:		

APPROVED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF WAUWATOSA, WISCONSIN BY RESOLUTION ADOPTED:

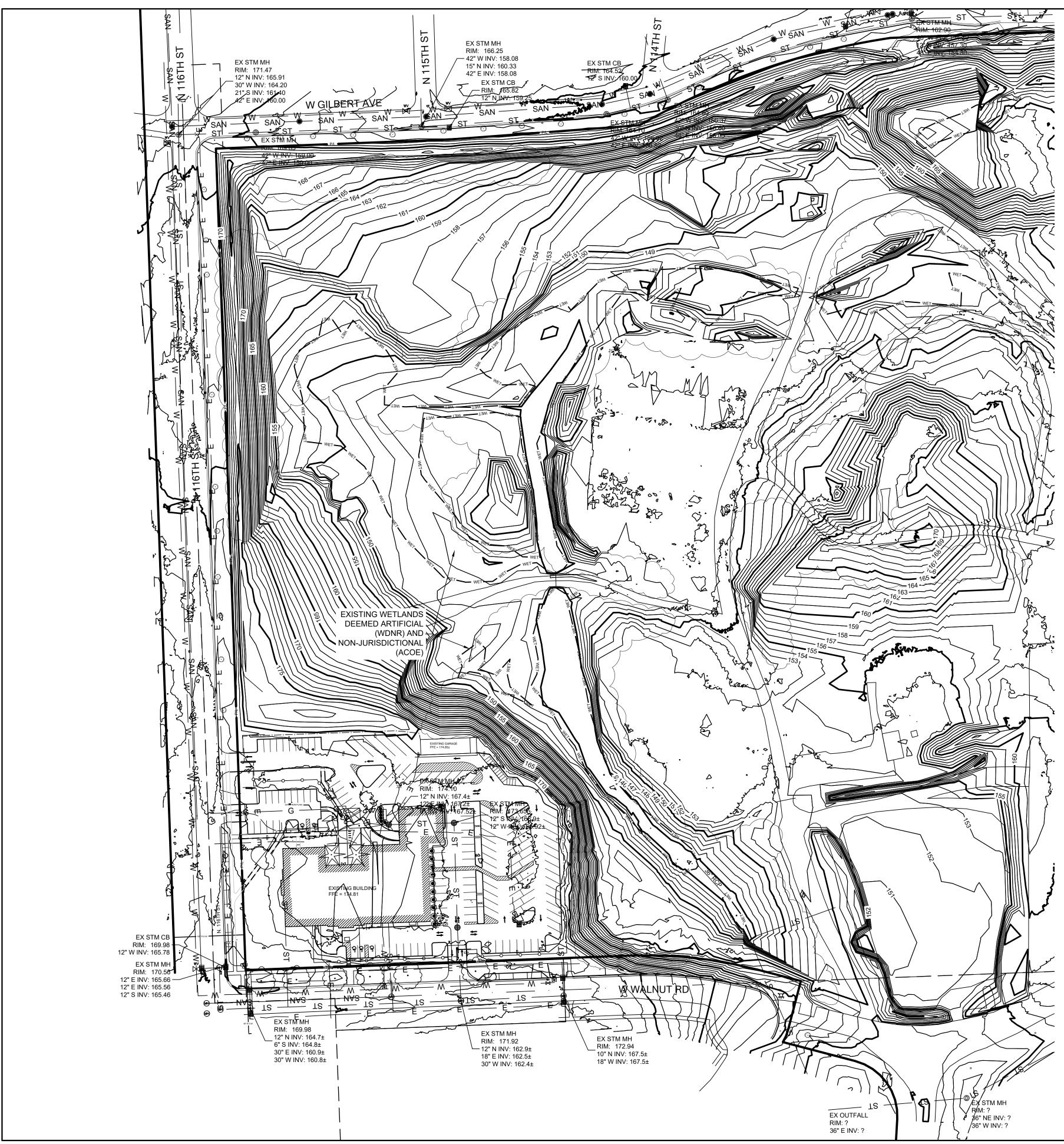
IBC ENGINEERING SERVICES: COLLEEN HOFFMANN, PE ELECTRICAL ENGINEER (262) 522-4423 COLLEENH@IBCENGINEERING.COM

BRENDA KIESGEN PROJECT MANAGER (708) 691-0601 BKIESGEN@SITE-DESIGN.COM

<u>THE SIGMA GROUP:</u> CHRISTOPHER CARR, PE VICE PRESIDENT (414) 643-4163 CCARR@THESIGMAGROUP.COM

PROJECT COORDINATION: ALEX KRUTSCH PARKS & FORESTRY SUPERINTENDENT (414) 471-8422 AKRUTSCH@WAUWATOSA.NET

SITE DESIGN LANDSCAPE ARCHITECTURE:



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— -TEL	
— — FO — —	
— -CTV	
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— — G — —	
670	
WET	
—FP	

• MANHOLE

- CATCH BASIN CATCH BASIN (ROUND)
- ROOF DRAIN
- 🐹 HYDRANT
- 🛱 WATER VALVE
- 🕺 GAS VALVE
- \emptyset UTILITY POLE
- GN GAS METER
- EM ELECTRIC METER
- P UTILITY PEDESTAL
- TRAFFIC SIGNAL LIGHT POLE
- SOIL BORING
- MONITORING WELL

EASEMENT CHAIN LINK FENCE TREE LINE OVERHEAD UTILITY LINE ELECTRIC TELEPHONE FIBER OPTIC CABLE TV SANITARY SEWER FORCE MAIN STORM SEWER WATER MAIN GAS EXISTING CONTOUR WETLAND FLOODPLAIN

SECTION 1/4 SECTION LINE

LEGEND:

PROPERTY LINE

- IRON PIPE FOUND/SET
- REBAR FOUND/SET
- ⊗ CHISELED CROSS FOUND/SET
- ✑ PK NAIL FOUND/SET
- SPIKE/NAIL
- MONUMENT
- **BENCHMARK**
- ⊸ SIGN
- $\langle \cdot \rangle$ DECIDUOUS TREE

- BUSH

DRAWING IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

2. VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

3. DRAWING IS BASED ON FIELD SURVEY COMPLETED BY THE CITY OF WAUWATOSA ON OCTOBER 2022.

4. DATUM FOR THE PROJECT SURVEY IS WAUWATOSA DATUM.

5. CONTRACTOR TO VERIFY EXISTING CONDITIONS, CONTACT ENGINEER WITH DISCREPANCIES.

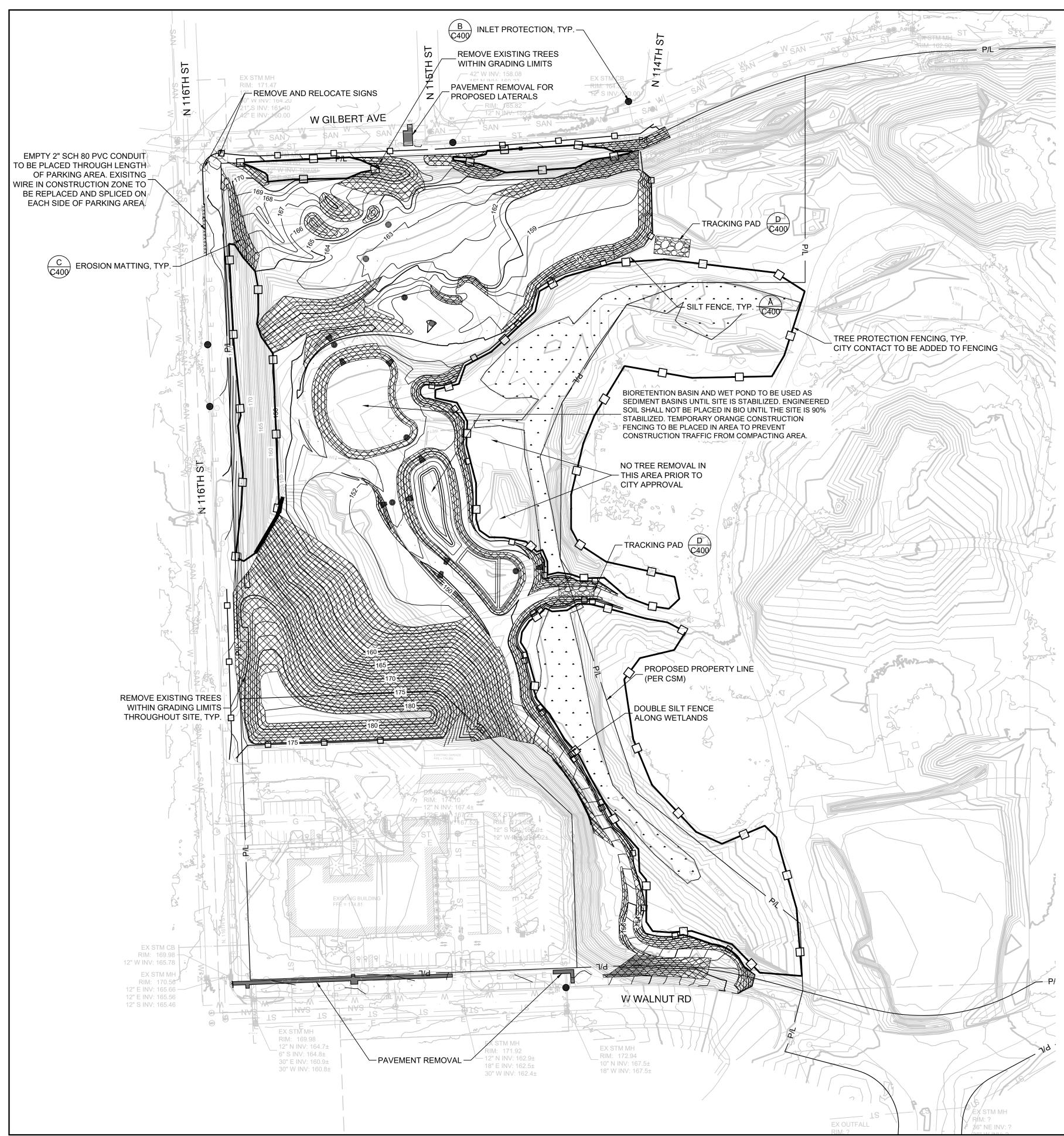
6. PRIVATE CONSTRUCTION THAT DISTURBS UNDERGROUND UTILITIES IS REQUIRED TO INSTALL AND MAINTAIN ENCLOSED RAT TRAPS OR BAIT STATIONS.

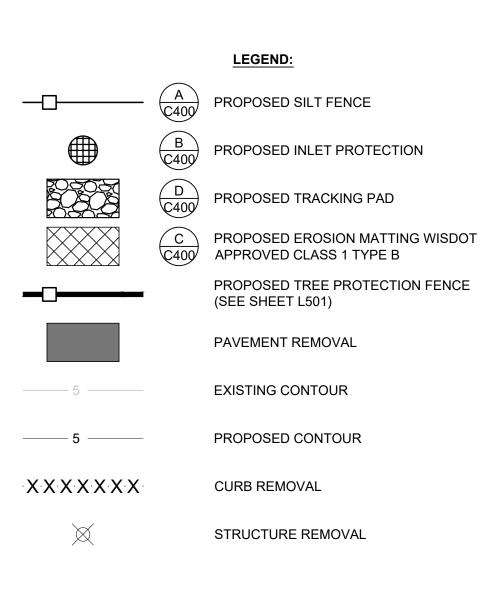


O POST



ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.

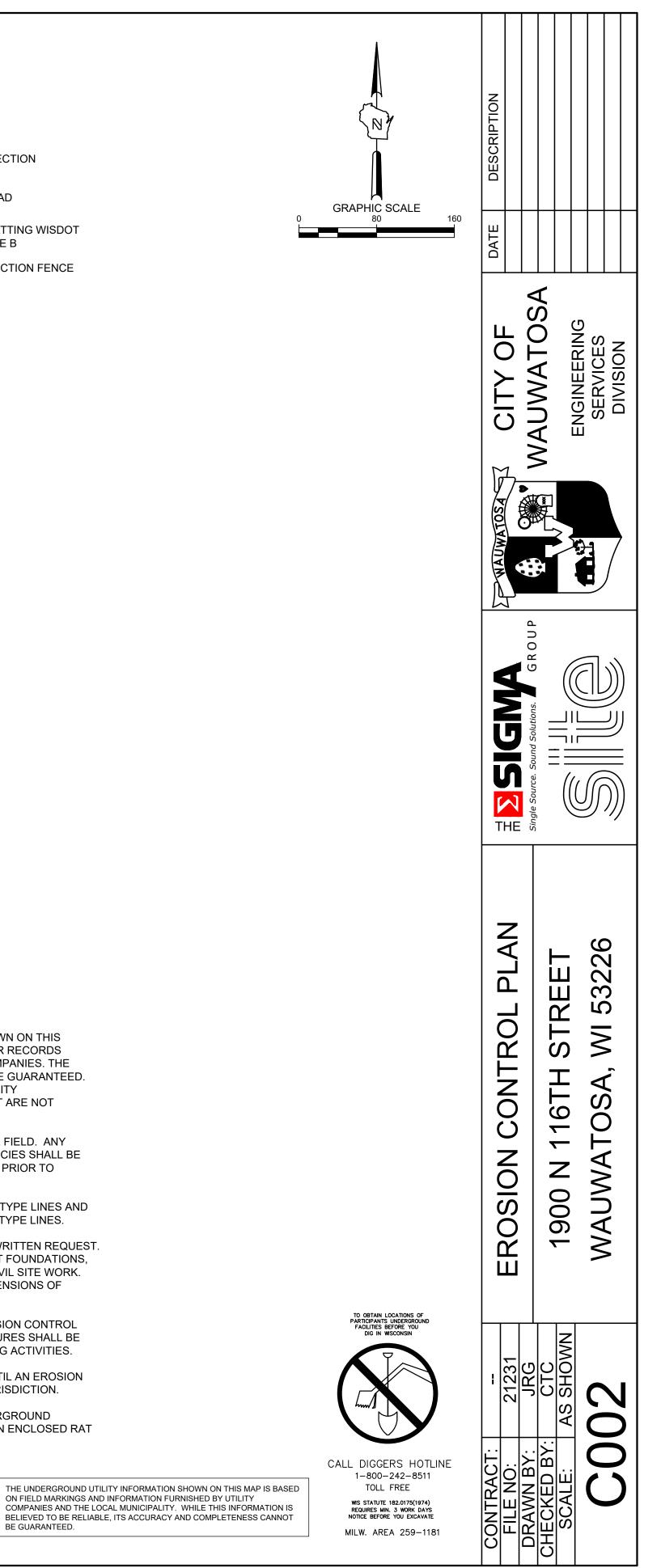


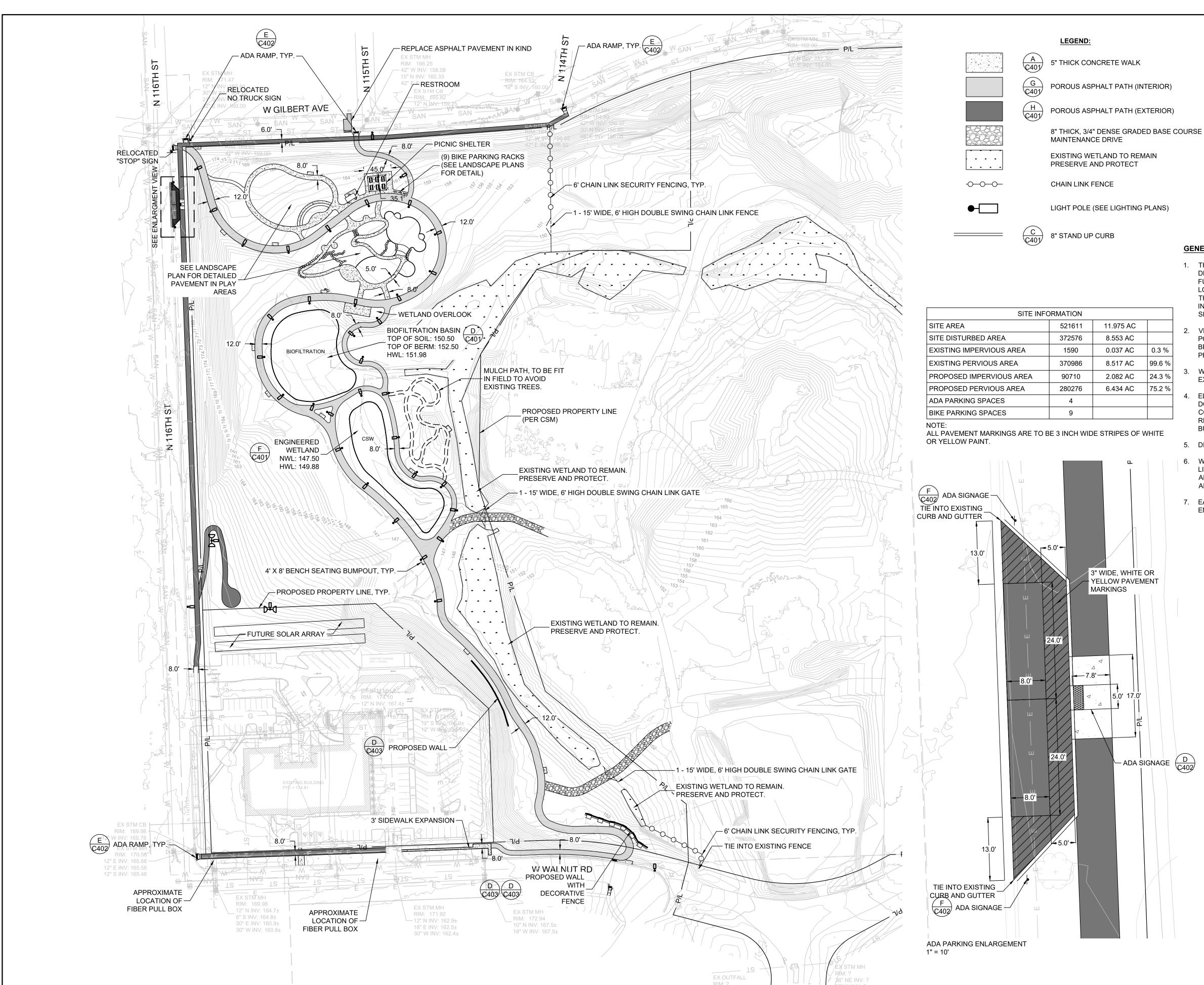


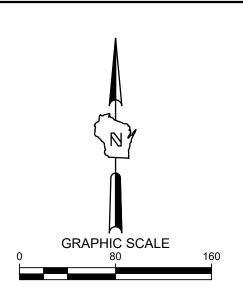
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- 3. WORK TO BE COMPLETED IS INDICATED IN BOLD TYPE LINES AND EXISTING CONDITIONS ARE INDICATED BY LIGHT TYPE LINES.
- 4. ELECTRONIC CIVIL FILES ARE AVAILABLE UPON WRITTEN REQUEST. DO NOT USE ELECTRONIC CIVIL FILES TO LAYOUT FOUNDATIONS, COLUMN LINES, LIGHT POLES, OR OTHER NON CIVIL SITE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDING AND ARCHITECTURAL FEATURES.
- 5. SEE SHEET C400 FOR A COMPLETE LIST OF EROSION CONTROL NOTES AND DETAILS. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF LAND DISTURBING ACTIVITIES.
- 6. DO NOT BEGIN LAND DISTURBING ACTIVITIES UNTIL AN EROSION CONTROL PERMIT IS OBTAINED FROM LOCAL JURISDICTION.
- 7. PRIVATE CONSTRUCTION THAT DISTURBS UNDERGROUND UTILITIES IS REQUIRED TO INSTALL AND MAINTAIN ENCLOSED RAT TRAPS OR BAIT STATIONS.



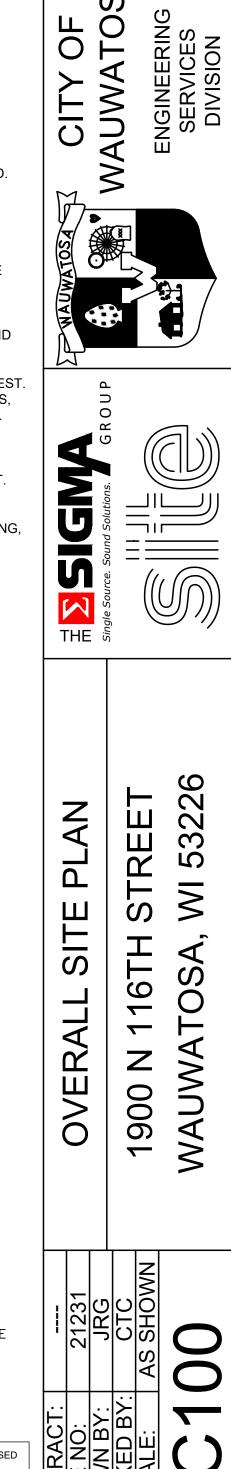






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- 7. EARTHWORK SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.



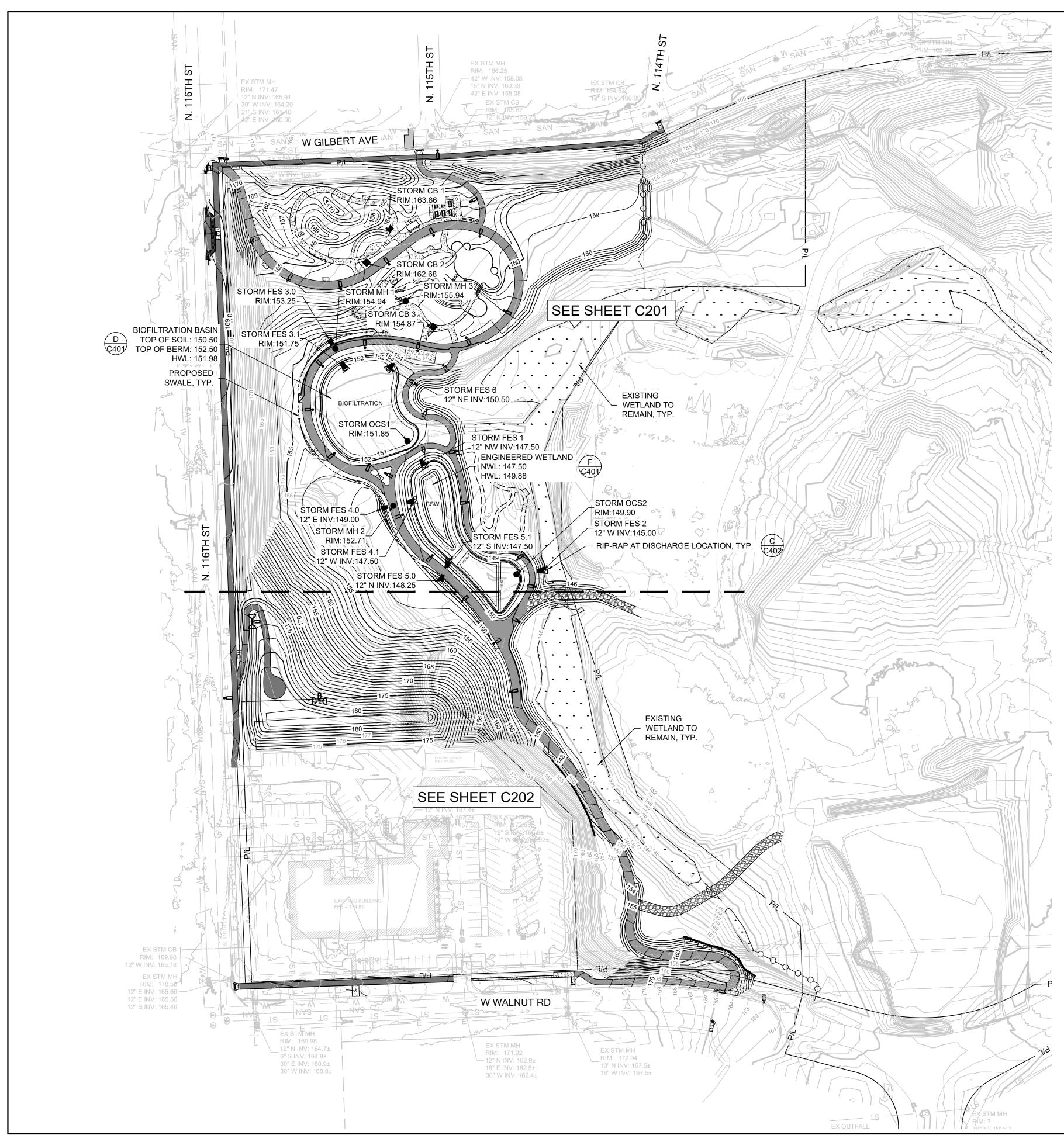
S

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUNI FACILITIES BEFORE YOU DIG IN WISCONSIN



CALL DIGGERS HOTLINE 1-800-242-8511 TOLL FREE WIS STATUTE 182.0175(1974) REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE MILW. AREA 259-1181

THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.



		LEGEND:
	A C401	5" THICK CONCRETE WALK
	G C401	POROUS ASPHALT PATH (INTERIC
	H C401	POROUS ASPHALT PATH (EXTERIO
		8" THICK, 3/4" DENSE GRADED BA MAINTENANCE DRIVE
		EXISTING WETLAND TO REMAIN PRESERVE AND PROTECT
-000		CHAIN LINK FENCE
●-		LIGHT POLE (SEE LIGHTING PLAN
	C C401	8" STAND UP CURB
5		EXISTING CONTOUR
5		PROPOSED CONTOUR
- + - +		PROPOSED SWALE
×	Τ/	ROPOSED CURB & GUTTER SPOT GRAE C: TOP OF CURB GRADE .: FLOW LINE CURB GRADE
× (100.00)		ROPOSED SURFACE POT GRADE
TW: 100.00 BW: 100.00		ROPOSED TOP OF WALL AT FINISHED G ROPOSED BOTTOM OF WALL AT FINISH
× 100.00		XISTING SURFACE POT GRADE (MATCH)

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ATH (EXTERIOR)

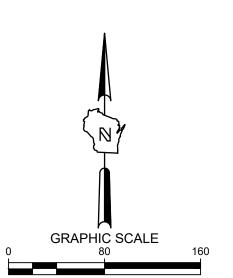
GRADED BASE COURSE

HTING PLANS)

ER SPOT GRADE

AT FINISHED GRADE ALL AT FINISHED GRADE

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DESCRIPTION								
DATE								
					ENGINEERING	SERVICES		
		Single Source. Sound Solutions.))	
	GRADING PLAN					WALINIATOSA WI 53226		
CONTRACT:	FILE NO: 21231		CHECKED BY: CTC	SCALE: AS SHOWN				

SHEET: C200

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

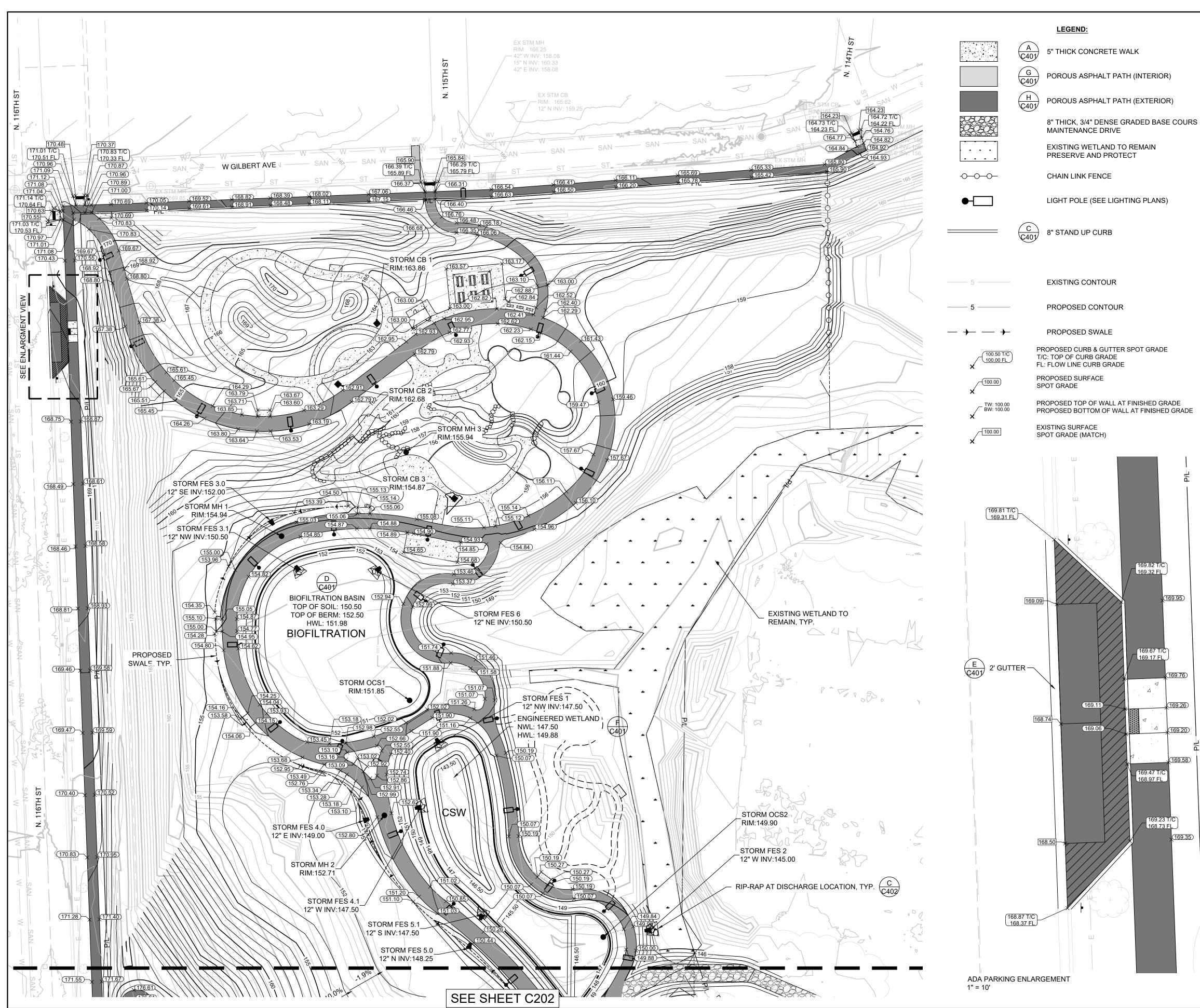
CALL DIGGERS HOTLINE

TOLL FREE

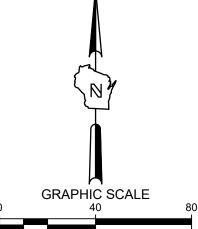
WIS STATUTE 182.0175(1974) REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

MILW. AREA 259-1181

1-800-242-8511



PLOT DATE: 2024-01-05



GENERAL NOTES:

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TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUNI FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE

TOLL FREE

WIS STATUTE 182.0175(1974) REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

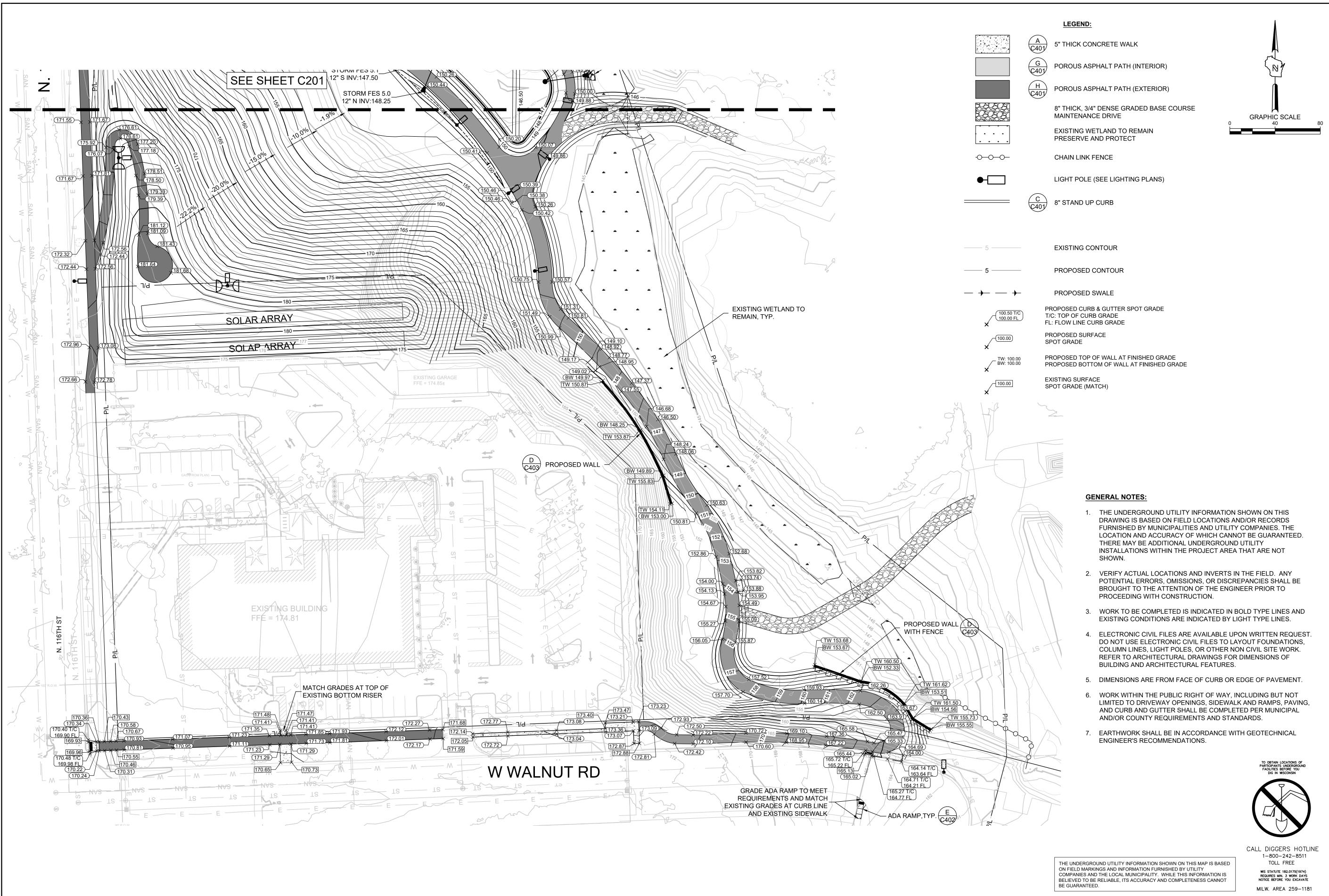
MILW. AREA 259-1181

ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY

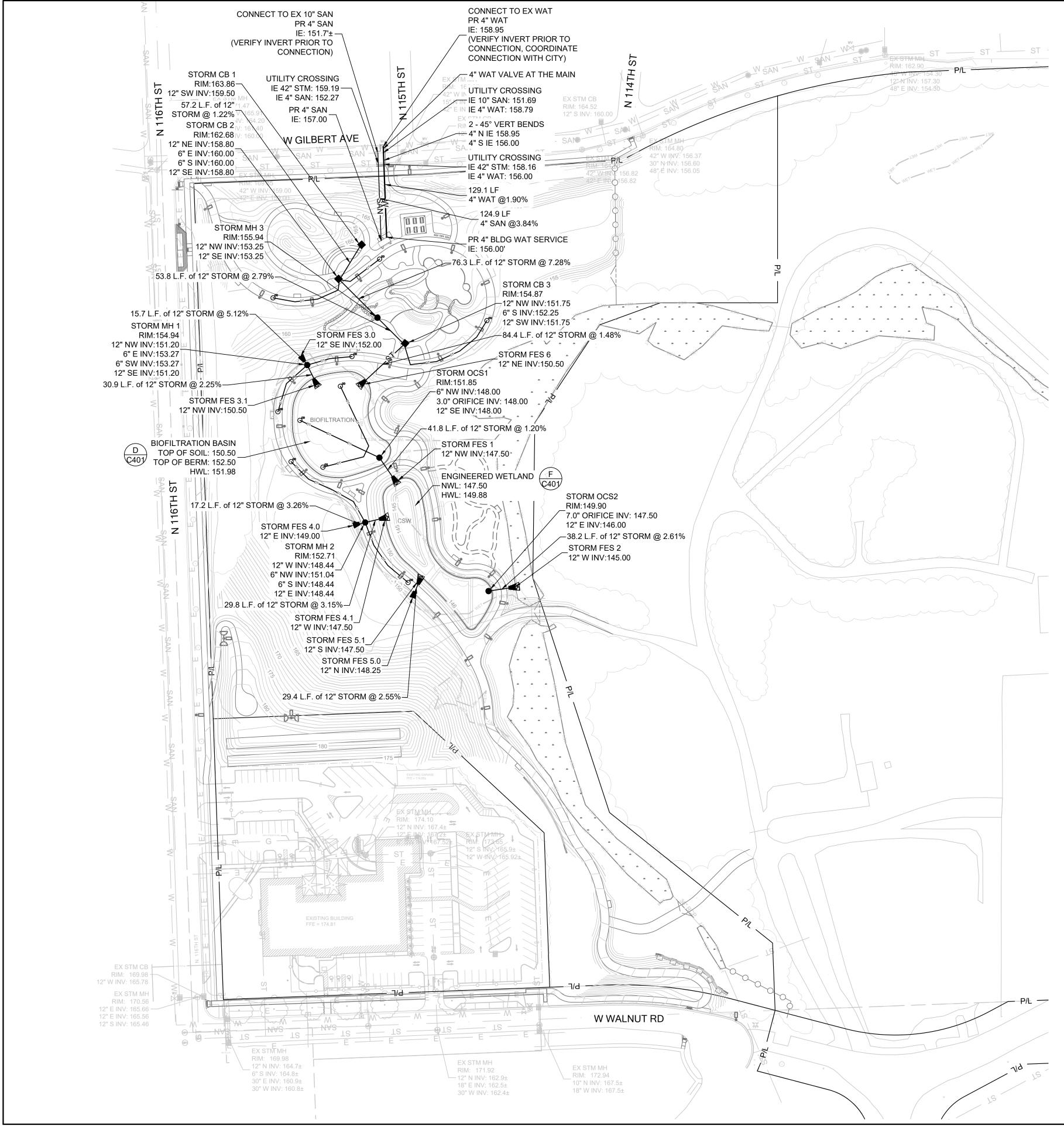
BE GUARANTEED.

BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT

1-800-242-8511



DESCRIPTION		
DATE		
CITY OF CITY OF		DIVISION
DETAILED GRADING PLAN	1900 N 116TH STREET	
 21231 .IRG	CTC AS SHOWN	



_____W___ ——SAN-——______ST— —___DT— _____T_____ ——G— C402

PROPOSED WATER SERVICE PROPOSED SANITARY SERVICE PROPOSED STORM SEWER PROPOSED DRAIN TILE (UNDERDRAIN) PROPOSED ELECTRICAL SERVICE PROPOSED TELEPHONE SERVICE PROPOSED GAS SERVICE

LEGEND:

PROPOSED STORM INLET

PROPOSED STORM MANHOLE

PROPOSED FLARED END SECTION

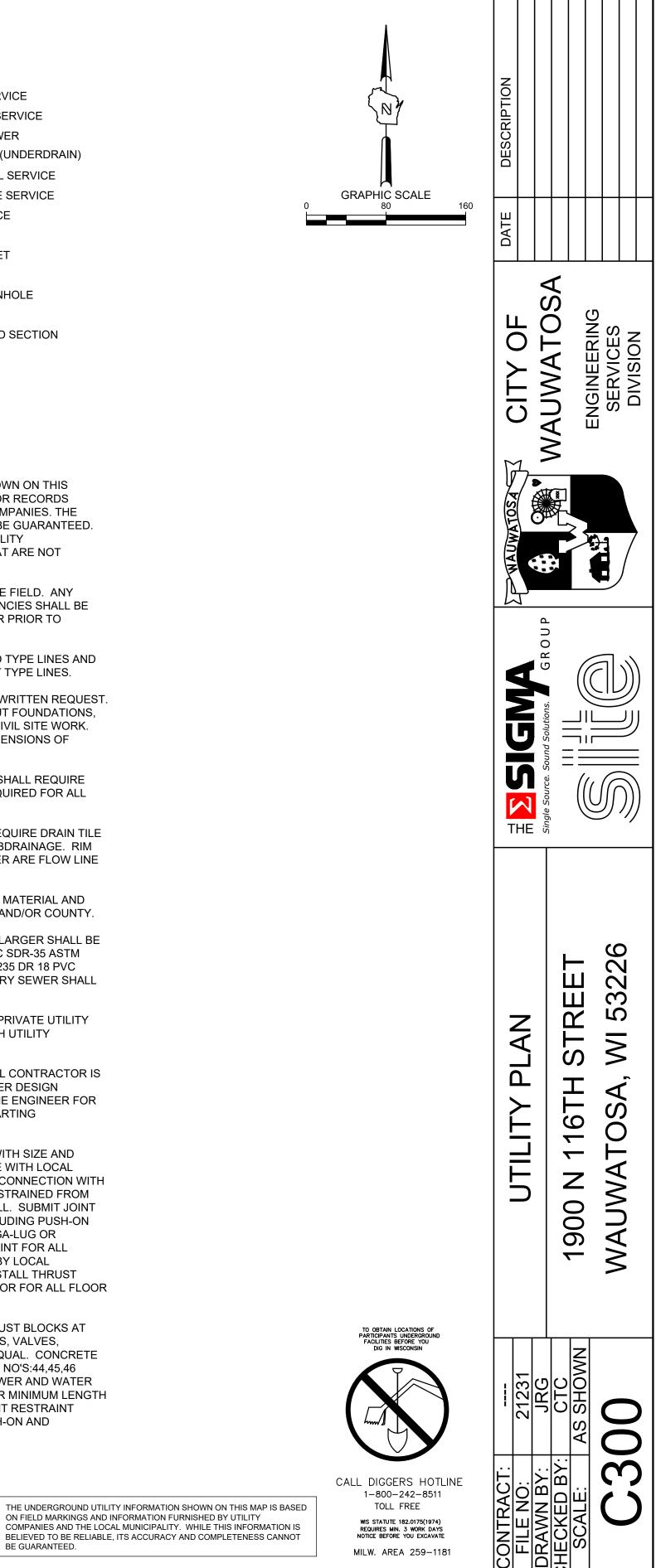
GENERAL NOTES:

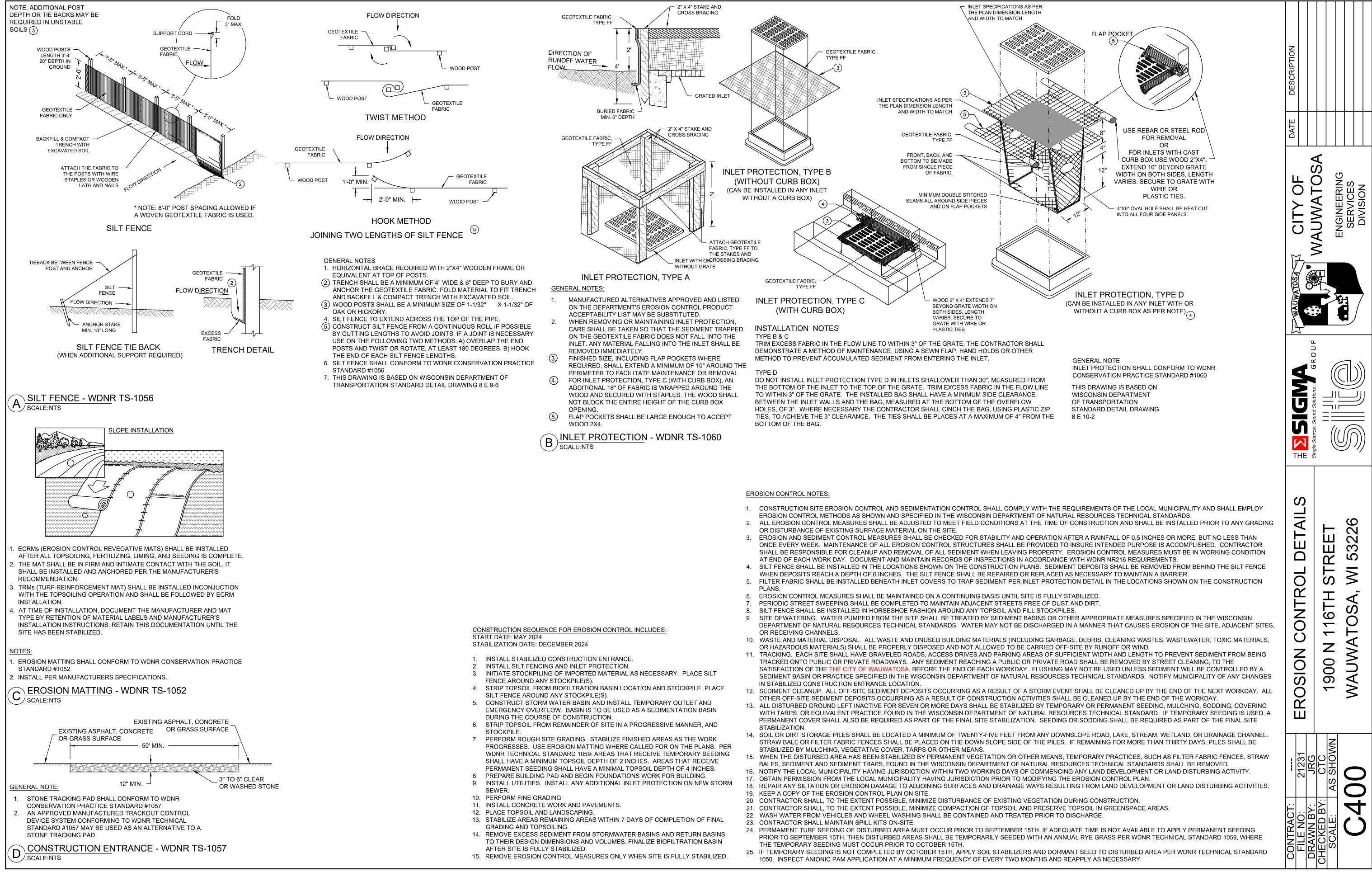
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C402

- VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
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- 5. ALL UTILITIES WITHIN 5 FEET OF PAVED AREAS SHALL REQUIRE GRANULAR BACKFILL. SLURRY BACKFILL IS REQUIRED FOR ALL WORK IN PUBLIC RIGHT OF WAY.
- 6. PRIVATE STORM INLETS IN PAVEMENT SHALL REQUIRE DRAIN TILE STUBS OF 10 FEET IN TWO DIRECTIONS FOR SUBDRAINAGE. RIM GRADE FOR STORM INLETS IN CURB AND GUTTER ARE FLOW LINE GRADES.
- 7. WORK IN PUBLIC RIGHT OF WAY SHALL FOLLOW MATERIAL AND INSTALLATION REQUIREMENTS PER MUNICIPAL AND/OR COUNTY
- 8. PRIVATE STORM SEWER 12-INCH DIAMETER OR LARGER SHALL BE HDPE. BELOW 12-INCH DIAMETER SHALL BE PVC SDR-35 ASTM D3034. PRIVATE WATER MAIN SHALL BE CLASS 235 DR 18 PVC CONFORMING TO AWWA C-900. PRIVATE SANITARY SEWER SHALL BE PVC SDR-35 ASTM D3034.
- 9. COORDINATE FINAL LOCATION AND DESIGN OF PRIVATE UTILITY SERVICES (ELECTRIC, GAS, PHONE, CABLE) WITH UTILITY COMPANIES.
- 10. IF PROJECT IS DESIGN BUILD MEP, THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE FINAL SEWER AND WATER DESIGN SHOWING LOCATION, INVERTS AND SIZES TO THE ENGINEER FOR FINAL REVIEW AND VERIFICATION PRIOR TO STARTING UNDERGROUND UTILITY CONSTRUCTION.
- 11. WATER MAIN CONNECTION: TAP WATER MAIN WITH SIZE AND LOCATION INDICATED ON PLAN IN ACCORDANCE WITH LOCAL WATER UTILITY REQUIREMENTS. COORDINATE CONNECTION WITH LOCAL WATER UTILITY. ALL JOINTS HALL BE RESTRAINED FROM CONNECTION OF WATER MAIN TO BUILDING WALL. SUBMIT JOINT RESTRAINT DETAILS FOR ALL JOINT TYPES INCLUDING PUSH-ON AND MECHANICAL CONNECTIONS. INSTALL MEGA-LUG OR APPROVED EQUAL TIGHT TO WALL FOR RESTRAINT FOR ALL BUILDING WALL PENETRATIONS AS APPROVED BY LOCAL PLUMBING INSPECTOR AND WATER UTILITY. INSTALL THRUST BLOCKING AND MEGA-LUG AT BEND BELOW FLOOR FOR ALL FLOOR PENETRATIONS.
- 12. INSTALL JOINT RESTRAINT AND CONCRETE THRUST BLOCKS AT ALL OFFSET FITTINGS (TEES, BENDS, DEAD ENDS, VALVES, REDUCERS) USING MEGA-LUG OR APPROVED EQUAL. CONCRETE THRUST BLOCKS SHALL BE INSTALLED PER FILE NO'S:44,45,46 FROM THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. SEE DETAIL FOR MINIMUM LENGTH OF RESTRAINED JOINT REQUIRED. SUBMIT JOINT RESTRAINT DETAILS FOR ALL JOINT TYPES INCLUDING PUSH-ON AND MECHANICAL CONNECTIONS.

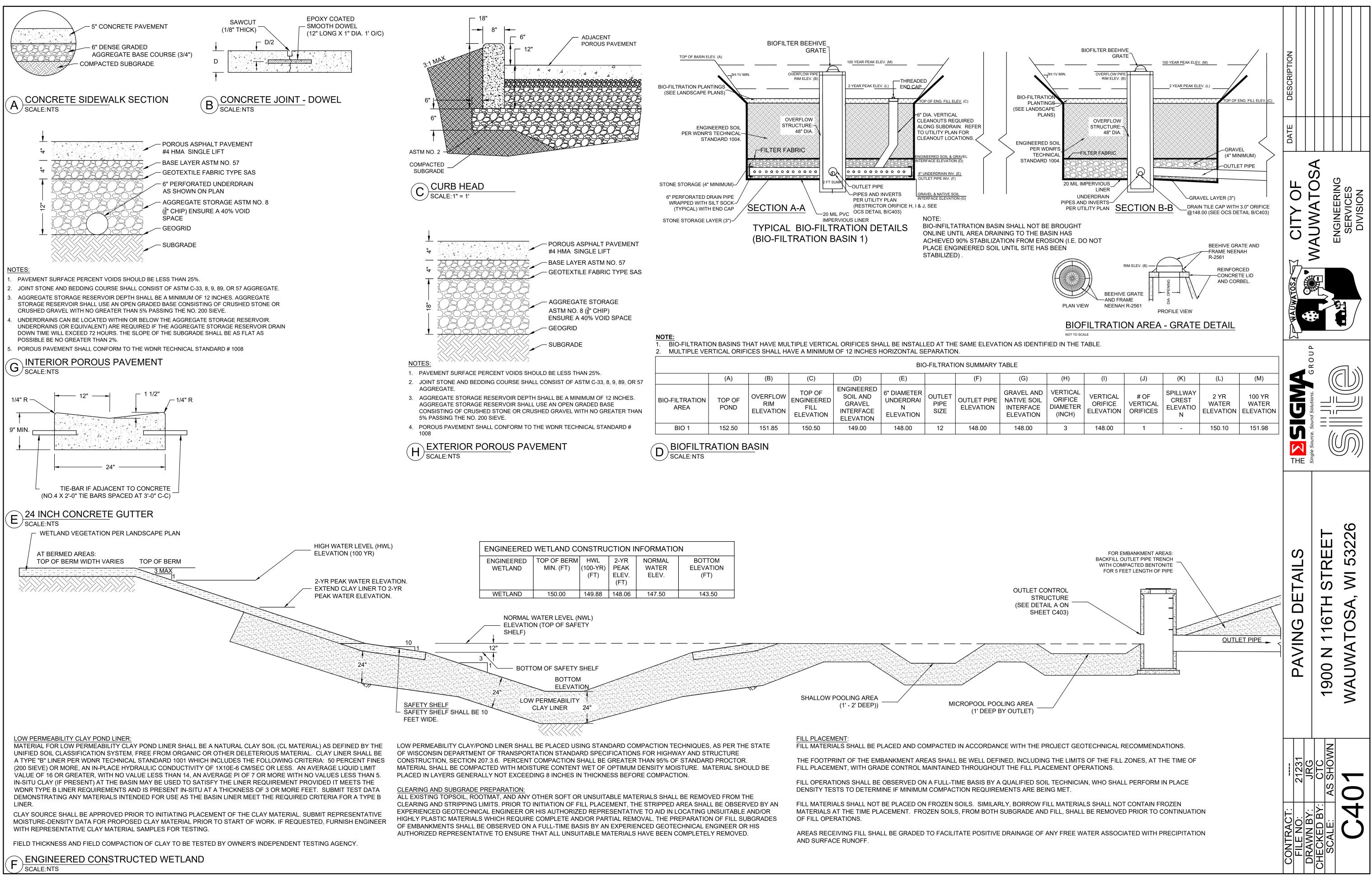




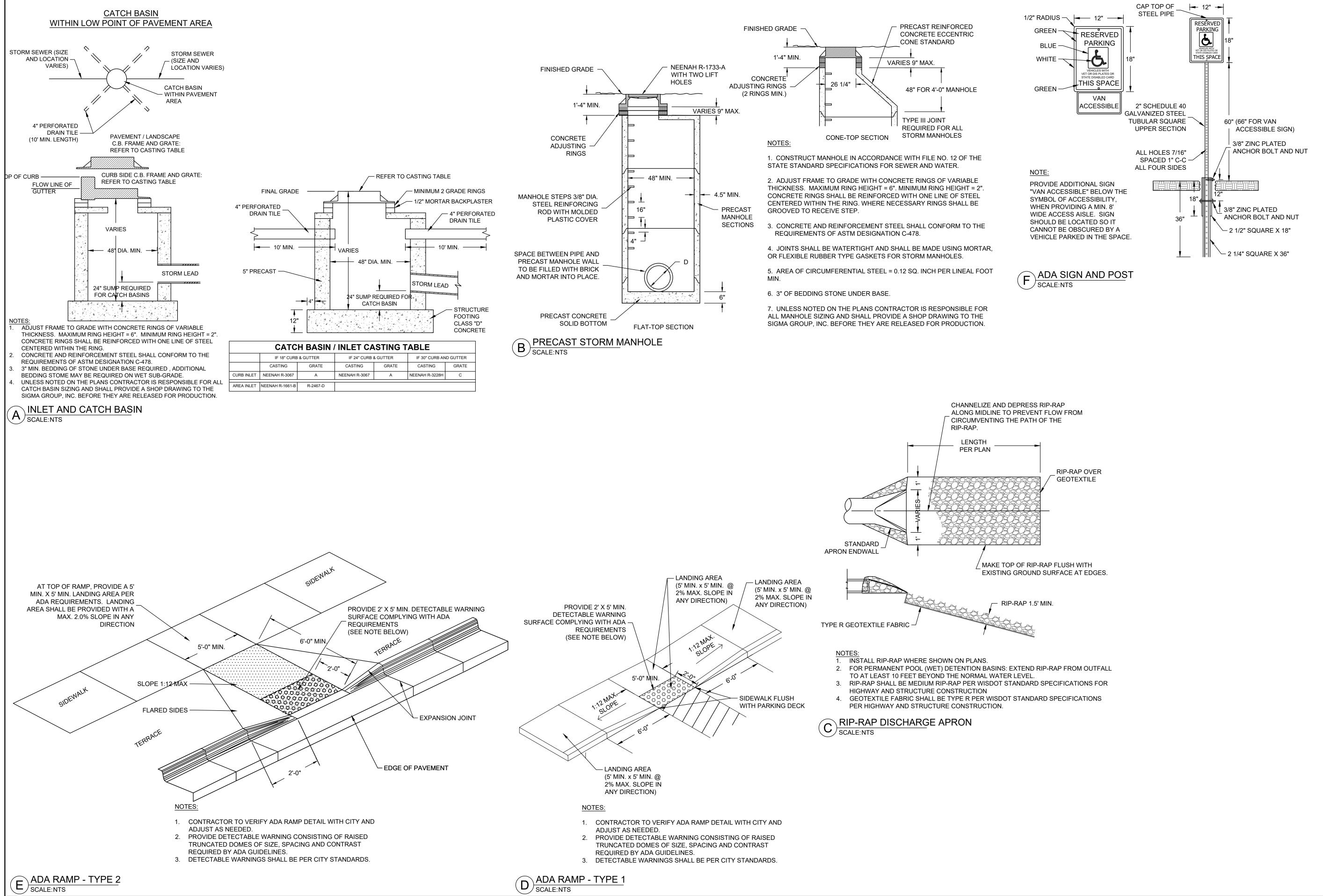


FILE NAME: C400 DETAILS.DWG

- - PLOT DATE: 2024-01-05

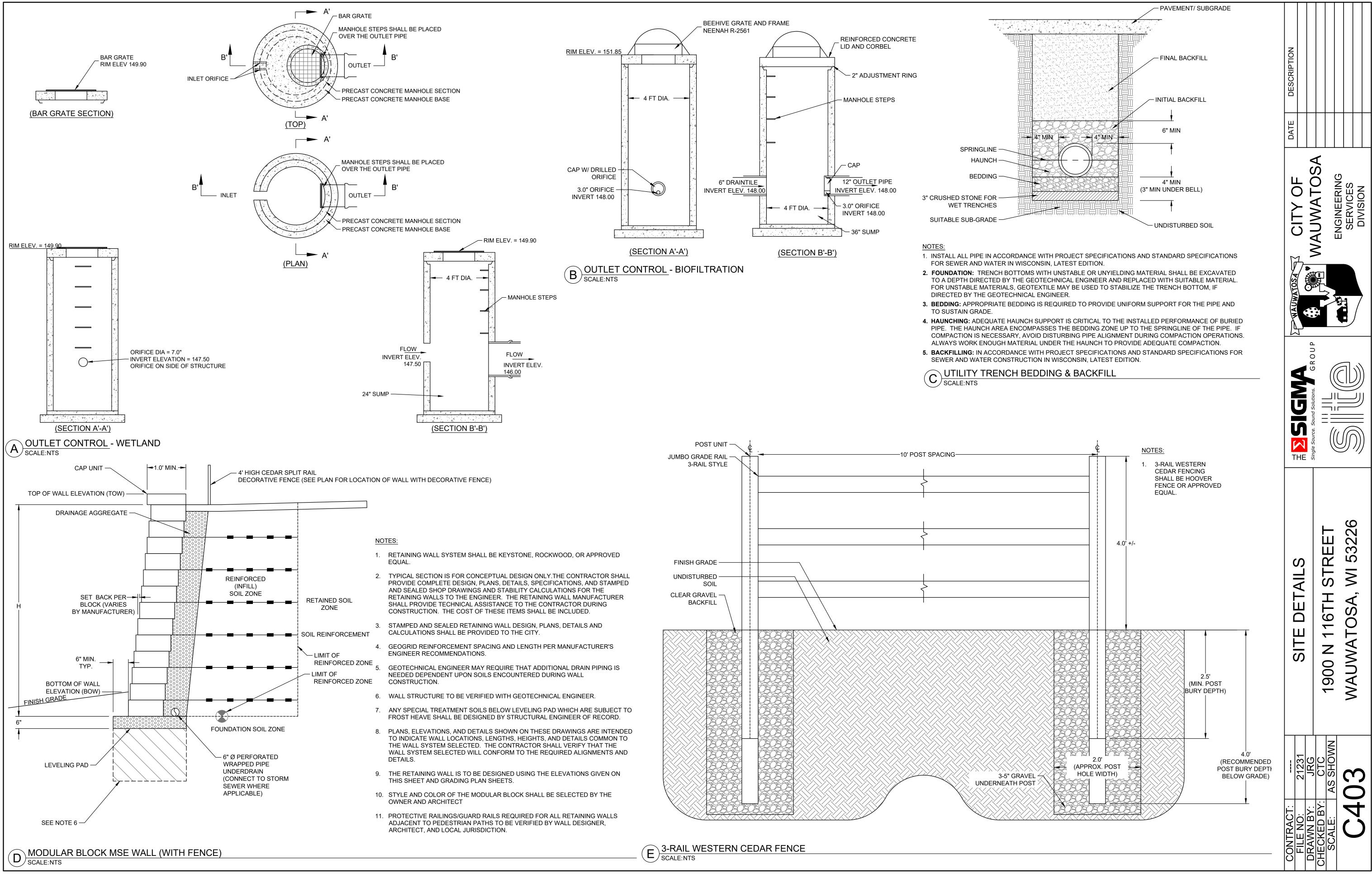


SHEET: C401

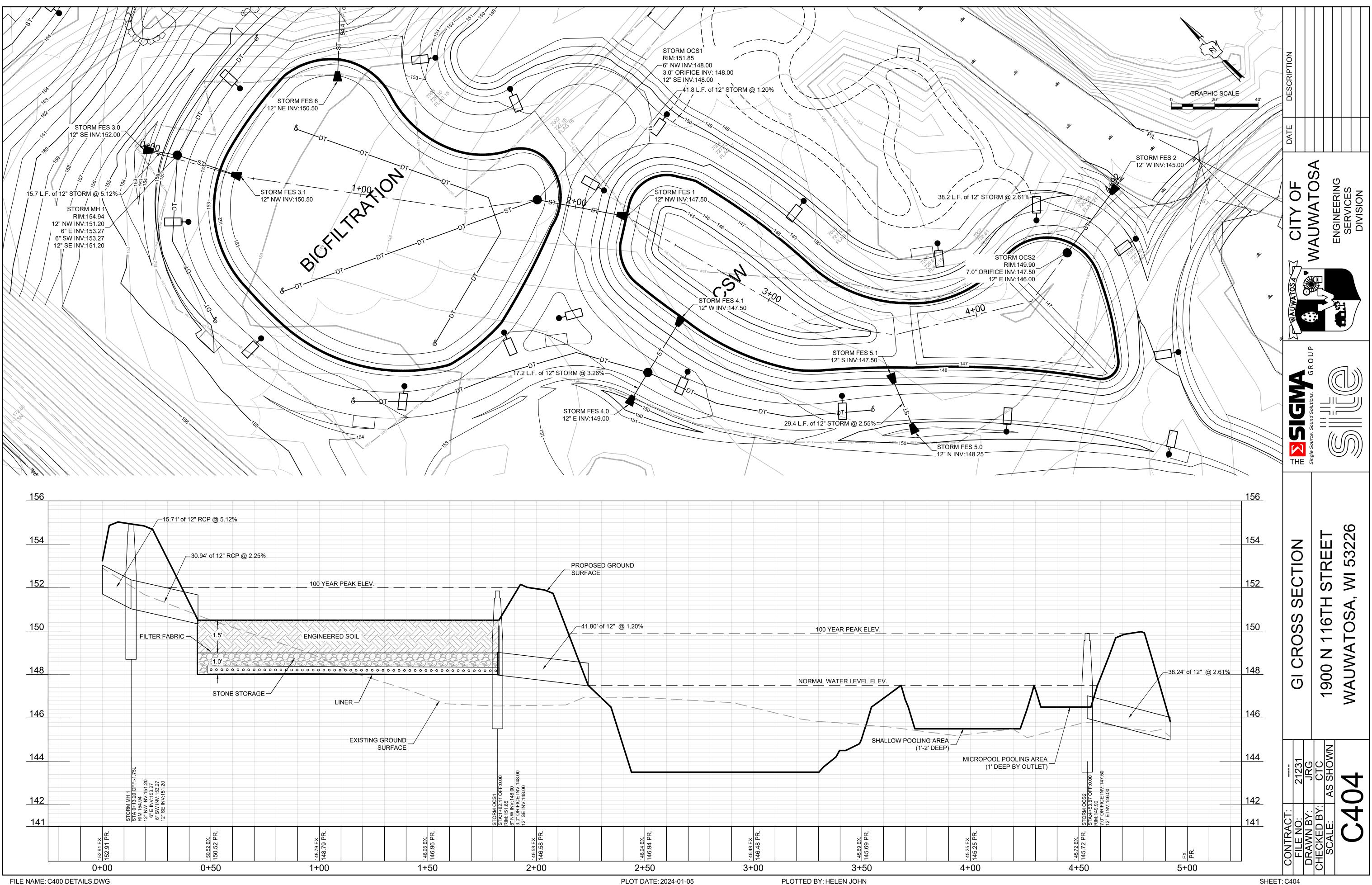


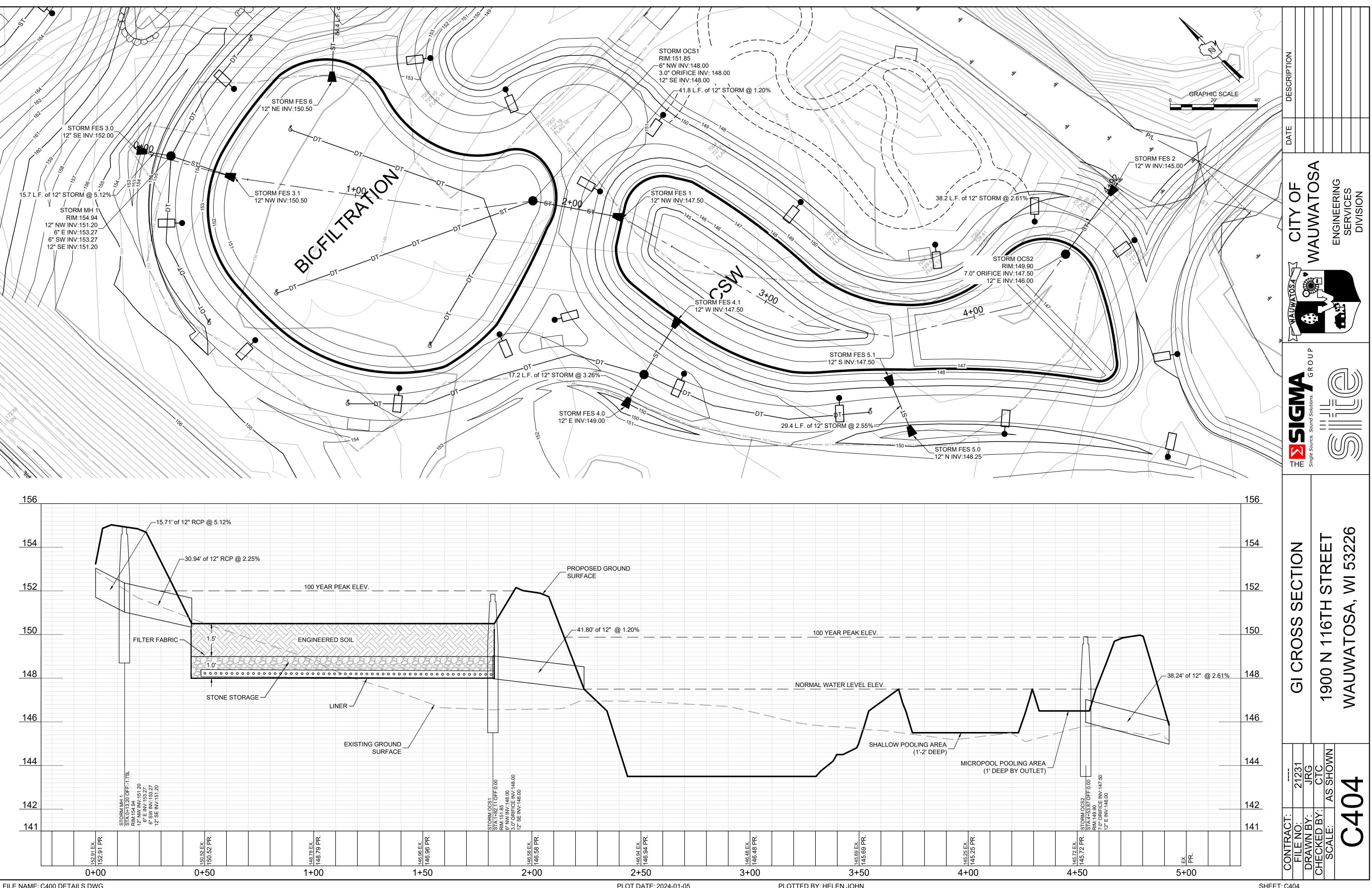
FILE NAME: C400 DETAILS.DWG

UTILITY DETAILS I 900 N 116TH STREET WAUWATOSA, WI 53226 Main Find Content of Content



FILE NAME: C400 DETAILS.DWG





FILE NAME: C400 DETAILS.DWG

SHEET: C404

GENERAL:

- EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY, AND NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR THEIR ACCURACY OR COMPLETENESS.
- CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR SHALL HAVE SITE MARKED BY DIGGER'S HOTLINE AND SHALL HAVE PRIVATE UTILITIES MARKED BY A PRIVATE UTILITY LOCATOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL 15. INSTALL PVC AWWA PIPE ACCORDING TO ASTM F645 AND AWWA M23 AND CHAPTER 4.6.0 OF THE STANDARD SPECIFICATIONS FOR ELEVATIONS, LOCATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL UTILITY CROSSINGS AND PROPOSED CONNECTIONS FOR CONFLICTS/DISCREPANCIES PRIOR TO INITIATING CONSTRUCTION. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED.
- LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLANS. LENGTHS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

SITE CLEARING:

- 1. EXCEPT FOR STRIPPED TOPSOIL OR OTHER MATERIALS INDICATED TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.
- 2. MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS
- 3. SALVABLE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED AND STORE ON OWNER'S PREMISES WHERE INDICATED.
- 4. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
- 5. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE.
- 6. PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE DURING CONSTRUCTION.
- LOCATE AND CLEARLY FLAG TREES AND VEGETATION TO REMAIN OR TO BE RELOCATED.
- 8. PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION; RESTORE DAMAGED IMPROVEMENTS 22. CLEAN AND DISINFECT WATER SERVICE PIPING IN ACCORDANCE WITH SPS CHAPTER 82.40(8)(I) AND AWWA C651 TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER.
- 9. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITIES INDICATED TO BE REMOVED; ARRANGE WITH UTILITY COMPANIES 1. ALL PRIVATE SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES TO SHUT OFF INDICATED UTILITIES.
- 10. EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED BY 2. ALL PUBLIC SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER THE OWNER AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES.
- 11. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER 3. PVC SEWER PIPE AND FITTINGS: ASTM D 3034, SDR 35, WITH BELL-AND-SPIGOT ENDS WITH RUBBER GASKETED JOINTS IN EXCAVATION OR EARTHWORK IS INDICATED; PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND.
- 12. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL
- 13. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
- 14. STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
- 15. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION
- 16. SAWCUT ALL PAVEMENTS FULL DEPTH PRIOR TO REMOVAL; SAWCUTS SHALL BE IN STRAIGHT LINES PERPENDICULAR AND/OR 7. PIPE JOINT CONSTRUCTION: FOLLOW PIPING MANUFACTURER'S RECOMMENDATIONS; JOIN PVC SEWER PIPE ACCORDING TO ASTM PARALLEL TO EXISTING PAVEMENT JOINTS AND PAVEMENT EDGES.
- 17. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

18. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NONRECYCLABLE MATERIALS. STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES.

SITE WATER SERVICE:

- 1. COMPLY WITH STANDARDS OF STATE PLUMBING CODE (SPS CH. 382, 384), LOCAL WATER UTILITY REQUIREMENTS AND STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR FIRE-SUPPRESSION AND WATER SERVICE PIPING INCLUDING MATERIALS, FITTINGS, 9. TRENCH BACKFILL MATERIAL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF THE STANDARD APPURTENANCES, INSTALLATION, TESTING, SERVICE TAPS, ETC. IN CASE OF CONFLICT BETWEEN THESE SPECIFICATIONS AND STATE PLUMBING CODE OR LOCAL JURISDICTIONAL AUTHORITY, STATE PLUMBING CODE AND LOCAL JURISDICTIONAL AUTHORITY REQUIREMENTS GOVERN
- 2. DO NOT INTERRUPT SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED BY OWNERS OF SUCH FACILITIES AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY WATER-DISTRIBUTION SERVICE.
- 3. WATER SERVICE PIPING MAY BE EITHER DUCTILE IRON WATER PIPE OR PVC WATER PIPE AS ALLOWED BY THE LOCAL WATER UTILITY.
- 4. DUCTILE IRON WATER PIPE CONFORMING TO THE REQUIREMENTS OF THE AMERICAN NATIONAL STANDARD FOR DUCTILE IRON PIPE, CENTRIFUGALLY CAST, AWWA C151/A21.51 - LATEST REVISION AND REQUIREMENTS OF CHAPTER 8.18.0 OF THE STANDARD STORM DRAINAGE: SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. a. CLASS 52
- b. CEMENT MORTAR LINING AND INTERNAL AND EXTERNAL BITUMINOUS COATS IN ACCORDANCE WITH SECTION 51.8 OF AWWA C151. c. PUSH-ON GASKET PIPE
- d. PLAIN RUBBER GASKETS
- e. BONDING STRAPS TO PROVIDE ELECTRICAL CONDUCTIVITY WITHOUT FIELD TESTING
- 5. JOINTS FOR DUCTILE IRON PIPE: JOINTS SHALL BE RUBBER GASKET JOINTS; CONFORM TO THE REQUIREMENTS OF AMERICAN NATIONAL STANDARD FOR RUBBER GASKET JOINTS FOR DUCTILE IRON PRESSURE PIPE AND FITTINGS (ANSI/AWWA C111/A21.11, LATEST EDITION)
- 6. FITTINGS FOR DUCTILE IRON PIPE: CONFORM TO THE REQUIREMENTS OF AMERICAN NATIONAL STANDARD FOR DUCTILE IRON AND GRAY IRON FITTINGS, 3" THROUGH 48" FOR WATER ANSI/AWWA C110/A21.10, LATEST EDITION); CLASS 250 MECHANICAL JOINT PIPE FITTINGS; CEMENT LINED; ALL BELLS; ENTIRE FITTING TARRED; CONDUCTIVE MECHANICAL JOINT (NO LEAD) RUBBER GASKETS, FLANGES, AND BOLTS.
- 7. PVC AWWA PIPE: AWWA C900, CLASS 235 WITH BELL END WITH GASKET AND WITH SPIGOT END AND MEETING REQUIREMENTS OF CHAPTER 8.20.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. FITTINGS SHALL BE IN ACCORDANCE WITH CHAPTER 8.22.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. MECHANICAL -JOINT, DUCTILE IRON FITTINGS: AWWA C153, DUCTILE-IRON COMPACT PATTERN. GLANDS, GASKETS AND BOLTS: AWWA C111, DUCTILE IRON GLANDS, RUBBER GASKETS AND STEEL BOLTS.
- 8. GATE VALVES: CONFORM TO AWWA C-500 AND STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN SUITABLE FOR DIRECT BURY.
- 9. VALVE BOXES: CAST IRON CONFORMING TO ASTM DESIGNATION A-48, CLASS 20 AND STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
- 10. FIRE HYDRANTS: TO MEET LOCAL STANDARDS.
- 11. WATER MAIN CONNECTION: TAP WATER MAIN WITH SIZE AND LOCATION INDICATED ON PLAN IN ACCORDANCE WITH LOCAL WATER UTILITY REQUIREMENTS. COORDINATE CONNECTION WITH LOCAL WATER UTILITY. ALL JOINTS HALL BE RESTRAINED FROM CONNECTION OF WATER MAIN TO BUILDING WALL. SUBMIT JOINT RESTRAINT DETAILS FOR ALL JOINT TYPES INCLUDING PUSH-ON AND MECHANICAL CONNECTIONS. INSTALL MEGA-LUG OR APPROVED EQUAL TIGHT TO WALL FOR RESTRAINT FOR ALL BUILDING WALL PENETRATIONS AS APPROVED BY LOCAL PLUMBING INSPECTOR AND WATER UTILITY. INSTALL THRUST BLOCKING AND MEGA-LUG AT BEND BELOW FLOOR FOR ALL FLOOR PENETRATIONS
- 12. GENERAL WATER PIPE INSTALLATION: IN ACCORDANCE WITH CHAPTER 4.3.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
- 13. INSTALL DUCTILE-IRON, WATER-SERVICE PIPING ACCORDING TO AWWA C600 AND CHAPTER 4.4.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.

SITE WATER SERVICE CONT.:

SANITARY SEWERAGE:

SPECIFICATIONS.

- - COUPLINGS

- LATEST EDITION.
- REGISTER.

14. ALL DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE PER AWWA C105, LATEST EDITION AND IN ACCORDANCE WITH 12. CLASS B COMPACTED TRENCH SECTION (FILE NO. NO. 4 OF STANDARD SPECIFICATIONS) SHALL BE UTILIZED. BEDDING AND COVER CHAPTER 4.4.4 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. ALL JOINTS AND FITTINGS SHALL HAVE POLYETHYLENE ENCASEMENT INSTALLED PER MANUFACTURER'S REQUIREMENTS AND PROCEDURES.

SEWER AND WATER CONSTRUCTION IN WISCONSIN

16. INSTALL JOINT RESTRAINT AND CONCRETE THRUST BLOCKS AT ALL OFFSET FITTINGS (TEES, BENDS, DEAD ENDS, VALVES, 14. MANHOLE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3.5.0 OF THE STANDARD SPECIFICATIONS. SET MANHOLE RIMS TO REDUCERS) USING MEGA-LUG OR APPROVED EQUAL. CONCRETE THRUST BLOCKS SHALL BE INSTALLED PER FILE NO'S:44,45,46 FROM THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. SEE DETAIL FOR MINIMUM LENGTH OF RESTRAINED JOINT REQUIRED. SUBMIT JOINT RESTRAINT DETAILS FOR ALL JOINT TYPES INCLUDING PUSH-ON AND MECHANICAL

CONNECTIONS.INSTALL WATER SERVICE PIPING SUCH THAT THERE IS A MINIMUM OF 6' OF COVER OVER THE TOP OF THE WATER SERVICE PIPING.

17. BEDDING AND COVER FOR WATER SERVICE PIPING SHALL BE IN ACCORDANCE WITH SECTION 4.3.3 AND FILE NO. 36 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. TRENCH BACKFILL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION ON-SITE.

18. INSTALL TRACER WIRE FOR NON-METALLIC WATER SERVICES IN ACCORDANCE WITH SPS SECTION 382.40(8)(K). TRACER WIRE INSULATION COLOR SHALL BE BLUE FOR POTABLE WATER SERVICE PIPING.

19. DUCTILE-IRON PIPING, RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTION 4.4.2 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN

20. PVC PIPING GASKETED JOINTS: USING JOINING MATERIALS ACCORDING TO AWWA C900. CONSTRUCT JOINTS WITH ELASTOMERIC 2. SEALS AND LUBRICANTS ACCORDING TO ASTM D2774 OR ASTM D3139 AND PIPE MANUFACTURER'S WRITTEN INSTRUCTIONS.

21. CONDUCT HYDROSTATIC TESTS IN ACCORDANCE WITH CHAPTER 4.15.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.

(DSPS) PLUMBING CODE - CHAPTERS SPS 382 AND SPS 384 AND LOCAL MUNICIPAL REQUIREMENTS.

CONSTRUCTION IN WISCONSIN, LATEST EDITION (STANDARD SPECIFICATIONS) AND LOCAL MUNICIPAL REQUIREMENTS.

ACCORDANCE WITH CHAPTER 8.10.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. JOINTS SHALL CONFORM TO ASTM D-3212.

4. MANHOLES: STANDARD PRECAST REINFORCED CONCRETE MANHOLES CONFORMING TO ASTM C478, SECTION 8.39.0 OF THE STANDARD SPECIFICATIONS AND CONFORMING TO FILE NOS. 12, 13 AND 15 OF THE STANDARD SPECIFICATIONS. DIAMETER AND DEPTH AS INDICATED ON PLANS. MANHOLE SIZES TO BE VERIFIED BY CONTRACTOR AND SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING STRUCTURES.

MANHOLES DEEPER THAN FOUR FEET SHALL BE PROVIDED WITH MANHOLE STEPS CONFORMING TO SECTION 8.40.0 OF THE STANDARD

6. SEWERS SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 3.2.0 OF THE STANDARD SPECIFICATIONS. INSTALL PROPER SIZE INCREASERS, REDUCERS AND COUPLINGS WHERE DIFFERENT SIZES OR MATERIALS OF PIPES AND FITTINGS ARE CONNECTED. INSTALL TRACER PIPE OVER NON-METALLIC PIPING IN ACCORANCE WITH SPS SECTION 382.30(11)(H) AND 382.36(7)(D).

D2321 AND ASTM D 3212 FOR ELASTOMERIC GASKET JOINTS. JOIN DISSIMILAR PIPE MATERIALS WITH NONPRESSURE-TYPE, FLEXIBLE

PROVIDE AND INSTALL CLEANOUTS IN ACCORDANCE WITH SPS CHAPTER 382.35. INSTALL CLEANOUTS AND RISER EXTENSIONS FORM SEWER PIPES TO PROPOSED GRADE. INSTALL PIPING SO CLEANOUTS OPEN IN DIRECTION OF FLOW IN SEWER PIPE. USE LIGHT DUTY, TOP LOADING CLASSIFICATION CLEANOUTS IN EARTH OR UNPAVED FOOT TRAFFIC AREAS; USE MEDIUM DUTY, TOP-LOADING CLASSIFICATION CLEANOUTS IN PAVED FOOT TRAFFIC AREAS; USE HEAVY DUTY, TOP-LOADING CLASSIFICATION CLEANOUTS IN VEHICULAR TRAFFIC AREAS. SET CLEANOUT FRAMES AND COVERS IN PAVEMENT AREAS FLUSH WITH PAVEMENT SURFACE.

8. CLASS B COMPACTED TRENCH SECTION (FILE NO. NO. 4 OF STANDARD SPECIFICATIONS) SHALL BE UTILIZED. BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF THE STANDARD SPECIFICATIONS.

SPECIFICATIONS BENEATH AND WITHIN FIVE FEET OF PAVEMENT AREAS; COMPACTED SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS MAY BE USED BENEATH LANDSCAPE AREAS.

10. MANHOLE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3.5.0 OF THE STANDARD SPECIFICATIONS. SET MANHOLE RIMS TO 13. PIPE COVER MATERIAL: CONFORM TO SECTION 8.43.3 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN ELEVATIONS INDICATED ON PLANS.

11. AFTER INSTALLATION OF SEWER PIPE CLEAN ALL DEBRIS FROM SEWER AND INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. CONDUCT DEFLECTION TESTING OF INSTALLED PIPE IN ACCORDANCE WITH SECTION 3.2.6(1)4 OF THE STANDARD SPECIFICATIONS; REPLACE ANY PIPE SECTION NOT PASSING THE DEFLECTION TESTING USING NEW PIPE MATERIALS. TEST NEW BUILDING SEWER IN ACCORDANCE WITH SECTION 5.4.0 OF THE STANDARD SPECIFICATIONS. REPLACE LEAKING PIPE USING NEW PIPE MATERIALS AAND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.

1. ALL PRIVATE STORM SEWER WORK SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) PLUMBING CODE - CHAPTERS SPS 382 AND SPS 384 AND LOCAL MUNICIPAL REQUIREMENTS.

2. ALL PUBLIC STORM SEWER WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. LATEST EDITION (STANDARD SPECIFICATIONS) AND LOCAL MUNICIPAL REQUIREMENTS.

3. PVC SEWER PIPE AND FITTINGS: ASTM D 3034, SDR 35, WITH BELL-AND-SPIGOT ENDS WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH CHAPTER 8.10.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. JOINTS SHALL CONFORM TO ASTM D-3212.

4. REINFORCED CONCRETE PIPE: ASTM C76 WITH BELL AND SPIGOT ENDS AND GASKETED JOINTS WITH ASTM C443 RUBBER GASKETS IN ACCORDANCE WITH CHAPTER 8.6.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 18. DUE TO CLAYEY SOILS, IF UNDERCUTS OCCUR WITHIN PAVEMENT AREAS AND THEY ARE BACKFILLED WITH GRANULAR SOILS, THE

. HDPE PIPE: ADS N12 PIPE AS APPROVED ON THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PLUMBING PRODUCT

CATCH BASINS: STANDARD PRECAST CONCRETE CATCH BASINS CONFORMING TO CHAPTER 3.6.0 OF THE STANDARD SPECIFICATIONS AND IN GENERAL CONFORMANCE WITH FILE NO. 26 OF THE STANDARD SPECIFICATIONS. DEPTH AND DIAMETER AS INDICATED ON PLANS. CATCH BASIN SIZES TO BE VERIFIED BY CONTRACTOR AND SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR **REVIEW PRIOR TO ORDERING STRUCTURES.**

FRAMES AND GRATES: AS INDICATED ON PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SPECIFIED FRAME/GRATE IS 21. EXISTING OLD FILL MATERIAL SHALL BE REMOVED BELOW FOOTINGS OR FOUNDATION SUPPORTING FILL. ENGINEERED FILL BELOW COMPATIBLE WITH STRUCTURE; IF NOT, NOTIFY ENGINEER.

MANHOLES: STANDARD PRECAST REINFORCED CONCRETE MANHOLES CONFORMING TO ASTM C478, SECTION 8.39.0 OF THE STANDARD SPECIFICATIONS AND CONFORMING TO FILE NOS. 12, 13 AND 15 OF THE STANDARD SPECIFICATIONS. DIAMETER AND DEPTH AS INDICATED ON PLANS. MANHOLE SIZES TO BE VERIFIED BY CONTRACTOR AND SHOP DRAWINGS SHALL BE PROVIDED TO 22. WHERE UNSUITABLE BEARING SOILS ARE ENCOUNTERED IN A FOOTING EXCAVATION, THE EXCAVATION SHALL BE DEEPENED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING STRUCTURES.

9. MANHOLES AND CATCH BASINS DEEPER THAN FOUR FEET SHALL BE PROVIDED WITH MANHOLE STEPS CONFORMING TO SECTION 8.40.0 OF THE STANDARD SPECIFICATIONS.

10. SEWERS SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 3.2.0 OF THE STANDARD SPECIFICATIONS. INSTALL PROPER SIZE INCREASERS, REDUCERS AND COUPLINGS WHERE DIFFERENT SIZES OR MATERIALS OF PIPES AND FITTINGS ARE CONNECTED. INSTALL TRACER PIPE OVER NON-METALLIC PIPING IN ACCORDANCE WITH SPS SECTION 382.30(11)(H) AND 382.36(7)(D).

11. PROVIDE AND INSTALL CLEANOUTS IN ACCORDANCE WITH SPS CHAPTER 382.35. INSTALL CLEANOUTS AND RISER EXTENSIONS FORM SEWER PIPES TO PROPOSED GRADE. INSTALL PIPING SO CLEANOUTS OPEN IN DIRECTION OF FLOW IN SEWER PIPE. USE LIGHT DUTY, TOP LOADING CLASSIFICATION CLEANOUTS IN EARTH OR UNPAVED FOOT TRAFFIC AREAS; USE MEDIUM DUTY, TOP-LOADING 24. UTILITY TRENCHES FOR SEWER AND WATER SHALL CONFORM TO CLASS B COMPACTED TRENCH SECTION IN ACCORDANCE WITH FILE CLASSIFICATION CLEANOUTS IN PAVED FOOT TRAFFIC AREAS; USE HEAVY DUTY, TOP-LOADING CLASSIFICATION CLEANOUTS IN VEHICULAR TRAFFIC AREAS. SET CLEANOUT FRAMES AND COVERS IN PAVEMENT AREAS FLUSH WITH PAVEMENT SURFACE.

- MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF THE STANDARD SPECIFICATIONS.
- SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS MAY BE USED BENEATH LANDSCAPE AREAS.
- ELEVATIONS INDICATED ON PLANS.
- FRAMES AND GRATES SHALL BE SET TO THE ELEVATIONS SHOWN ON THE PLANS.
- USING NEW PIPE MATERIALS.

EARTH MOVING:

- RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER SHALL GOVERN.
- ON-SITE AND OFF-SITE SOIL MATERIAL PROPOSED FOR FILL AND BACKFILL.
- WITH COMPACTED ENGINEERED FILL.
- DRAINAGE
- GEOTECHNICAL ENGINEER
- TIME OF COMPACTION.
- AND 25.
- STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
- AND 0 TO 5 PERCENT PASSING A NO. 8 SIEVE.
- SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS MAY BE USED BENEATH LANDSCAPE AREAS.
- WISCONSIN, LATEST EDITION.
- FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
- RESPONSIBILITY OF THE CONTRACTOR.
- OVEREXCAVATED AREA DOES NOT OCCUR.
- SEWER. MINIMUM SLOPES OF SUCH DRAINTILES SHALL BE 0.5%.
- DRYING TIME IN PROJECT SCHEDULE.
- GEOTECHNICAL ENGINEER OR TECHNICIAN.
- DURING CONSTRUCTION.
- GEOTECHNICAL ENGINEER OR TECHNICIAN.



	ARTH MOVING:	AS	PHALTIC PAVIN
25.	BACKFILL UTILITY TRENCHES IN 4 TO 6 INCH LOOSE LIFTS COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. BACKFILL SHALL BE MOISTURE CONDITIONED TO BE WITH 3% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557.	1.	THE COMPOSITION OF SECTIONS 450, 4 CONSTRUCTION, L/
26.	UTILITY BEDDING PLACEMENT: CONFORM TO SECTION 3.2.6 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. BEDDING MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION WITH RESPECT TO THE MODIFIED PROCTOR (ASTM D1557).	2.	CONTRACTOR SHA PHYSICAL AND PER SPECIFICATIONS; A
27.	COMPACTION TESTING OF UTILITY TRENCHES SHALL BE PERFORMED ONE FOR EVERY 200 CUBIC YARDS OF BACKFILL PLACED OR ONE FOR TEST PER 200 LINEAR FEET OF TRENCH FOR EACH LIFT, WHICHEVER IS LESS.	3.	MANUFACTURER Q WHICH PROJECT IS
	AGGREGATE BASE COURSE BENEATH PAVEMENTS SHALL BE PLACED AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 3% OF OPTIMUM AS DETERMINED BY ASTM D1557. AGGREGATE BASE SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER OR TECHNICIAN.	4.	ENVIRONMENTAL L FOLLOWING CONDI WHEN TEMPERATU ASPHALTIC CONCR
29.	GRADING GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.		WHEN AIR TEMPER SURFACES. DO NO
30.	TESTING AGENCY: CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL TESTING.		AGGREGATES SHA
31.	FOOTING SUBGRADE TESTING: EACH ISOLATED FOOTING SHALL INCLUDE AT LEAST ONE TEST PROBE. TEST PROBES SHALL BE PERFORMED EVERY 20 LINEAR FEET IN CONTINUOUS FOOTINGS.	7.	PAVEMENT MARKIN COLOR SHALL BE V
32.	BUILDING SLAB AREA TESTING: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST PER LIFT FOR EVERY 2500 SQ. FT. OR LESS OF BUILDING SLAB, BUT IN NO CASE FEWER THAN 3 TESTS.	8.	HOT-MIX ASPHALT: FOR HEAVY DUTY F UNLESS NOTED.
	PAVEMENT AREA TESTING: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST ONE TEST FOR EVERY LIFT FOR EVERY 2,500 SQUARE FEET OF PAVEMENT AREA, BUT IN NO CASES FEWER THAN 3 TESTS.	9.	AGGREGATE BASE THE WISDOT STAN
	FOUNDATION WALL BACKFILL: AT EACH COMPACTED BACKFILL LAYER, AT LEAST 1 TEST PER LIFT FOR EACH 50 FEET OR LESS OF WALL LENGTH, BUT NO FEWER THAN 2 TESTS.	10.	PAVEMENT PLACEN CONSTRUCTION ME
35.	WHEN 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.	11.	APPROPRIATE SEC PREPARE AND PRC
	DISPOSAL: REMOVE SURPLUS SOIL AND WASTE MATERIAL, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF IT OFF OWNER'S PROPERTY. DNCRETE PAVING:	12.	PLACEMENT OF AS SWEEP LOOSE GRA DISLODGE OR DIST
1.	THE COMPOSITION, PLACING AND CONSTRUCTION OF CONCRETE PAVEMENTS SHALL BE IN ACCORDANCE WITH THE APPLICABLE	13.	SPREAD AND FINIS
	REQUIREMENTS OF SECTIONS 415, 416, 501, 601, AND 602 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION (WISDOT STANDARD SPECIFICATIONS) AND LOCAL MUNICIPAL REQUIREMENTS AND SPECIFICATIONS.	14.	PROMPTLY CORRE MATERIAL FORMING HAND TOOLS TO SM
2.	CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED - INCLUDE TECHNICAL DATA AND TESTED PHYSICAL AND PERFORMANCE PROPERTIES; JOB-MIX DESIGNS: CERTIFICATION THAT MIX MEETS OR EXCEEDS WISDOT STANDARD SPECIFICATIONS; AND MATERIAL CERTIFICATES CERTIFYING COMPLIANCE WITH WISDOT STANDARD SPECIFICATIONS.		COMPACT ASPHAL
3.	MANUFACTURER QUALIFICATIONS: MANUFACTURER OF READY-MIXED CONCRETE PRODUCTS WHO COMPLIES WITH ASTM C 94/C 94M REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT AND APPROVED BY THE WISCONSIN DEPARTMENT OF	-	PROTECTION: AFTI ERECT BARRICADE THICKNESS TOLER
4.	TRANSPORTATION. CONCRETE GRADE: GRADE A, GRADE A-2, OR A-FA CONFORMING TO SECTION 501.3.1.3 OF THE WISDOT STANDARD SPECIFICATIONS	18.	COURSE AND PLUS
5. 6.	AGGREGATES: CONFORM TO SECTION 501 OF THE WISDOT STANDARD SPECIFICATIONS. PROVIDE AGGREGATES FROM A SINGLE SOURCE. WATER: ASTM C 94/C 94M AND SECTION 501 OF THE WISDOT STANDARD SPECIFICATIONS.		TOLERANCES AS D BINDER COURSE: ½ SPECIFIED TOLERA
7.	AIR-ENTRAINING ADMIXTURE: ASTM C 260 AND SECTION 501 OF THE WISDOT STANDARD SPECIFICATIONS.		DO NOT APPLY PAV APPLY MARKINGS
8. 9.	CHEMICAL ADMIXTURES: PER SECTION 501 OF THE WISDOT STANDARD SPECIFICATIONS. CURING MATERIALS IN ACCORDANCE WITH SECTION 415.3.12 OF THE WISDOT STANDARD SPECIFICATIONS.		THAT MAY PREVEN
10.	EXPANSION JOINT MATERIAL: CONFORM TO SECTION 415.2.3 OF THE WISDOT STANDARD SPECIFICATIONS. MEASURE, BATCH, AND MIX CONCRETE MATERIALS AND CONCRETE IN ACCORDANCE WITH SECTION 501 OF THE WISDOT STANDARD		APPLY PAINT AS TH INDICATED, WITH U GALLONS/MILE FOF
12.	SPECIFICATIONS. GENERAL EXECUTION: CONFORM TO SECTION 415 OF THE WISDOT STANDARD SPECIFICATIONS.		TESTING AGENCY: TESTS AND INSPEC
13.	PROOFROLL SUBGRADE AND AGGREGATE BASE AS OUTLINED IN EARTH MOVING SPECIFICATION PRIOR TO PLACEMENT OF PAVEMENTS.	<u>SE</u> 1.	GMENTAL RETA
14.	SET, BRACE, AND SECURE EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED GUIDES FOR PAVEMENT TO REQUIRED LINES, GRADES, AND ELEVATIONS. INSTALL FORMS TO ALLOW CONTINUOUS PROGRESS OF WORK AND SO FORMS CAN REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE PLACEMENT.	2.	SEGMENTAL RETAI WITH THE LINES, G MATERIALS SUBMIT
15.	CLEAN FORMS AFTER EACH USE AND COAT WITH FORM-RELEASE AGENT TO ENSURE SEPARATION FROM CONCRETE WITHOUT DAMAGE.	3.	WORK STATING TH
16.	JOINTS GENERAL: FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGINGS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED. CONFORM TO SECTION 415 OF THE WISDOT STANDARD SPECIFICATIONS	_	PLANS FOR APPRO SHALL BE PREPARI DESIGN AND LICEN
	CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVEMENT AND AT LOCATIONS WHERE PAVEMENT OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR UNLESS PAVEMENT TERMINATES AT ISOLATION JOINTS.	4.	SEGMENTAL RETAI DESIGNED FOR RE RETAINING WALL U
	ISOLATION JOINTS: FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, WALKS, OTHER FIXED OBJECTS, AND WHERE INDICATED.		COLOR AND STYLE
	CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS TO MATCH JOINTING OF EXISTING ADJACENT CONCRETE PAVEMENT.		SRW UNITS SHALL UNIT OR SIGNIFICA CONSTRUCTION SH
20.	EDGING: TOOL EDGES OF PAVEMENT, GUTTERS, CURBS, AND JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL TO A 1/4-INCH RADIUS. REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ELIMINATE TOOL MARKS ON CONCRETE SURFACES.	8.	CONCRETE SRW UI COMPRESSIVE STR
	CURBING: COMPLY WITH SECTION 601 OF THE WISDOT STANDARD SPECIFICATIONS. SIDEWALKS: COMPLY WITH SECTION 602 OF THE WISDOT STANDARD SPECIFICATIONS.	9.	PROVISIONS OF AS SRW UNITS' MOLDE
23.	MOISTEN AGGREGATE TO PROVIDE A UNIFORM DAMPENED CONDITION AT TIME CONCRETE IS PLACED.	10.	WITH ASTM C 140. T SRW UNITS SHALL
	FINISH CURBING IN ACCORDANCE WITH SECTION 601.3.5 OF THE WISDOT STANDARD SPECIFICATIONS. FINISH SIDEWALK AND PATIO IN ACCORDANCE WITH SECTION 602.3.2.3 OF THE WISDOT STANDARD SPECIFICATIONS (LIGHT BROOM		THE EXPRESSED U GEOSYNTHETIC RE
	FINISH). FINISH CONCRETE VEHICULAR PAVEMENTS AND PADS IN ACCORDANCE WITH SECTION 415.3.8 OF THE WISDOT STANDARD SPECIFICATIONS (ARTIFICIAL TURF DRAG FINISH).		MANUFACTURED FOR REINFORCEMENT S SEGMENTAL RETAI
	PROTECT AND CURE SIDEWALK IN ACCORDANCE WITH SECTION 602.3.2.6 OF THE WISDOT STANDARD SPECIFICATIONS.		WALL PLANS AND S DEMONSTRATED C
	PROTECT AND CURE CURBING IN ACCORDANCE WITH SECTION 601.3.7 OF THE WISDOT STANDARD SPECIFICATIONS. PROTECT AND CURE VEHICULAR CONCRETE PAVING IN ACCORDANCE WITH SECTION 415.3.12 OF THE WISDOT STANDARD		THE TYPE, STRENG ENGINEER, AS SHO
30.	SPECIFICATIONS. REMOVE AND REPLACE CONCRETE PAVEMENT THAT IS BROKEN, DAMAGED, OR DEFECTIVE OR THAT DOES NOT COMPLY WITH REQUIREMENTS IN THIS SECTION.	13.	MATERIAL FOR LEV SP, & SW) AND SHA MAXIMUM MAY ALS
	PROTECT CONCRETE FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVEMENT FOR AT LEAST 7 DAYS AFTER PLACEMENT. MAINTAIN CONCRETE PAVEMENT FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP CONCRETE PAVEMENT NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS.	14.	OF 6 INCHES FROM DRAINAGE AGGREC IN ACCORDANCE W SIEVE SIZE
			1 INCH
			3/4 INCH NO. 4
			NO. 40

EARTH MOVING:

ASPHALTIC PAVING:

DN, PLACING AND CONSTRUCTION OF ASPHALTIC PAVEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS , 455, 460, 465, AND 475 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE LATEST EDITION (WISDOT STANDARD SPECIFICATIONS).

IALL PROVIDE PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED - INCLUDE TECHNICAL DATA AND TESTED ERFORMANCE PROPERTIES; JOB-MIX DESIGNS: CERTIFICATION THAT MIX MEETS OR EXCEEDS WISDOT STANDARD AND MATERIAL CERTIFICATES CERTIFYING COMPLIANCE WITH WISDOT STANDARD SPECIFICATIONS

QUALIFICATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN IS LOCATED.

LIMITATIONS: DO NOT APPLY ASPHALT MATERIALS IF BASE COURSE IS WET OR EXCESSIVELY DAMP OR IF THE IDITIONS ARE NOT MET: APPLY TACK COAT WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND URE HAS NOT BEEN BELOW 35 DEGREES FAHRENHEIT FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION; PLACE RETE SURFACE COURSE WHEN TEMPERATURE IS ABOVE 40 DEGREES FAHRENHEIT; BASE COURSE MAY BE PLACED RATURE IS ABOVE 30 DEGREES FAHRENHEIT AND RISING. PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY NOT APPLY BELOW THE MINIMUM PAVEMENT TEMPERATURE AS RECOMMENDED BY THE MANUFACTURER.

IALL BE IN ACCORDANCE WITH SECTION 460.2.2 OF THE WISDOT STANDARD SPECIFICATIONS

IALS SHALL BE IN ACCORDANCE WITH CHAPTER 455 OF THE WISDOT STANDARD SPECIFICATIONS

KING PAINT: PROVIDE PAINT FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCTS LIST. 18. THE PLASTICITY OF THE FINE FRACTION SHALL BE LESS THAN 20. WHITE UNLESS INDICATED OTHERWISE ON PLANS.

LT: ASPHALTIC BINDER COURSE AND SURFACE COURSE SHALL BE MIXTURE LT FOR REGULAR DUTY PAVEMENT AND LT PAVEMENT COMPLYING WITH THE WISDOT STANDARD SPECIFICATIONS. ASPHALTIC BINDER SHALL BE 58-28 S

SE COURSE BENEATH PAVEMENTS: SHALL BE 1-1/4" DENSE GRADED BASE COURSE CONFORMING TO SECTION 305 OF NDARD SPECIFICATIONS.

EMENT GENERAL: ASPHALT CONCRETE PAVING EQUIPMENT, WEATHER LIMITATIONS, JOB-MIX FORMULA, MIXING, METHODS, COMPACTION, FINISHING, TOLERANCE AND PROTECTION SHALL CONFORM TO THE REQUIREMENTS OF THE ECTIONS OF THE WISDOT STANDARD SPECIFICATIONS.

COOFROLL SUBGRADES AND AGGREGATE BASE COURSE AS OUTLINED IN EARTH MOVING SPECIFICATIONS PRIOR TO ASPHALT PAVEMENTS.

RANULAR PARTICLES FROM SURFACE OF AGGREGATE BASE COURSE PRIOR TO PAVEMENT PLACEMENT. DO NOT STURB AGGREGATE EMBEDDED IN COMPACTED SURFACE OF BASE COURSE.

ISH ASPHALTIC MIXTURE IN ACCORDANCE WITH SECTION 450.3.2.5 OF THE WISDOT STANDARD SPECIFICATIONS. INESSES SHALL BE AS INDICATED ON THE PLANS.

RECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAVER. USE SUITABLE HAND TOOLS TO REMOVE EXCESS ING HIGH SPOTS. FILL DEPRESSIONS WITH HOT-MIX ASPHALT TO PREVENT SEGREGATION OF MIX; USE SUITABLE SMOOTH SURFACE.

ALTIC PAVEMENT IN ACCORDANCE WITH SECTION 450.3.2.6 OF THE WISDOT STANDARD SPECIFICATIONS.

TER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED. DES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED. RANCE: COMPACT EACH COURSE TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS 1/4 INCH FOR BINDER

US 1/4 INCH FOR SURFACE COURSE, NO MINUS.

'HNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS: 27. FOLLOWING THE EXCAVATION, THE FOUNDATION SOIL SHALL BE EXAMINED BY THE OWNER'S ENGINEER TO ASSURE ACTUAL 1/4 INCH; SURFACE COURSE: 1/8 INCH. REMOVE AND REPLACE ALL HUMPS OR DEPRESSIONS EXCEEDING THE RANCES.

AVEMENT-MARKING PAINT UNTIL LAYOUT, COLORS, AND PLACEMENT HAVE BEEN VERIFIED WITH ENGINEER. S TO A DRY SURFACE FREE FROM FROST. REMOVE DUST, DIRT, OIL, GREASE, GRAVEL, DEBRIS OR OTHER MATERIAL ENT BONDING TO THE PAVEMENT.

THE MANUFACTURER SPECIFIES WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES AT A MINIMUM RATE OF 17.6 OR A CONTINUOUS 4" LINE.

: CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD ECTIONS AND TO PREPARE TEST REPORTS.

TAINING WALL:

ISIST OF FURNISHING DETAILED DESIGN, MATERIALS, LABOR, EQUIPMENT AND SUPERVISION TO INSTALL A AINING WALL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY GRADES, DESIGN AND DIMENSIONS SHOWN ON PLANS.

1ITTALS: THE CONTRACTOR SHALL SUBMIT MANUFACTURERS' CERTIFICATIONS TWO WEEKS PRIOR TO START OF THAT THE SRW UNITS AND GEOSYNTHETIC REINFORCEMENT MEET THE REQUIREMENTS OF THE DESIGN.

FAL: THE CONTRACTOR SHALL SUBMIT TWO SETS OF DETAILED DESIGN CALCULATIONS AND FINAL RETAINING WALL ROVAL AT LEAST TWO WEEKS PRIOR TO THE BEGINNING OF WALL CONSTRUCTION. ALL CALCULATIONS AND DRAWINGS RED AND SEALED BY A PROFESSIONAL CIVIL ENGINEER (P.E.) - (WALL DESIGN ENGINEER) EXPERIENCED IN SRW ENSED IN THE STATE WHERE THE WALL IS TO BE BUILT.

AINING WALL (SRW) UNITS SHALL BE MACHINE FORMED, PORTLAND CEMENT CONCRETE BLOCKS SPECIFICALLY RETAINING WALL APPLICATIONS. SRW UNITS SHALL BE VERSA-LOK STANDARD RETAINING WALL UNITS, KEYSTONE UNITS, ROCKWOOD RETAINING WALL UNITS OR APPROVED EQUAL.

LE OF SRW UNITS SHALL BE AS SELECTED BY ARCHITECT AND OWNER FROM MANUFACTURER'S FULL RANGE.

BE CAPABLE OF BEING ERECTED WITH THE HORIZONTAL GAP BETWEEN ADJACENT UNITS NOT EXCEEDING 1/8 INCH ... L BE SOUND AND FREE OF CRACKS OR OTHER DEFECTS THAT WOULD INTERFERE WITH THE PROPER PLACING OF THE 35. PRIOR TO PLACEMENT OF NEXT COURSE, THE LEVEL AND ALIGNMENT OF THE UNITS SHALL BE CHECKED AND CORRECTED WHERE CANTLY IMPAIR THE STRENGTH OR PERMANENCE OF THE STRUCTURE. ANY CRACKS OR CHIPS OBSERVED DURING SHALL FALL WITHIN THE GUIDELINES OUTLINED IN ASTM C 1372.

UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1372 AND HAVE A MINIMUM NET AVERAGE 28 DAYS RENGTH OF 3000 PSI. COMPRESSIVE STRENGTH TEST SPECIMENS SHALL CONFORM TO THE SAW-CUT COUPON ASTM C140.

DED DIMENSIONS SHALL NOT DIFFER MORE THAN + 1/8 INCH FROM THAT SPECIFIED, AS MEASURED IN ACCORDANCE . THIS TOLERANCE DOES NOT APPLY TO ARCHITECTURAL SURFACES, SUCH AS SPLIT FACES.

BE INTERLOCKED WITH CONNECTION PINS. THE PINS SHALL CONSIST OF GLASS-REINFORCED NYLON MADE FOR USE WITH THE SRW UNITS SUPPLIED.

REINFORCEMENT SHALL CONSIST OF HIGH-TENACITY PET GEOGRIDS, HDPE GEOGRIDS, OR GEOTEXTILES) FOR SOIL REINFORCEMENT APPLICATIONS. THE TYPE, STRENGTH AND PLACEMENT OF THE GEOSYNTHETIC SHALL BE DETERMINED BY PROCEDURES OUTLINED IN THIS SPECIFICATION AND THE NCMA DESIGN MANUAL FOR AINING WALLS (3RD EDITION 2009) AND MATERIALS SHALL BE SPECIFIED BY WALL DESIGN ENGINEER IN THEIR FINAL SPECIFICATIONS. THE MANUFACTURERS/SUPPLIERS OF THE GEOSYNTHETIC REINFORCEMENT SHALL HAVE) CONSTRUCTION OF SIMILAR SIZE AND TYPES OF SEGMENTAL RETAINING WALLS ON PREVIOUS PROJECTS.

NGTH AND PLACEMENT OF THE REINFORCING GEOSYNTHETIC SHALL BE AS DETERMINED BY THE WALL DESIGN HOWN ON THE FINAL, P.E.-STAMPED RETAINING WALL PLANS.

EVELING PAD SHALL CONSIST OF COMPACTED SAND, GRAVEL, OR COMBINATION THEREOF (USCS SOIL TYPES GP,GW, HALL BE A MINIMUM OF 6 INCHES IN DEPTH. LEAN CONCRETE WITH A STRENGTH OF 200-300 PSI AND 3 INCHES THICK LSO BE USED AS A LEVELING PAD MATERIAL. THE LEVELING PAD SHOULD EXTEND LATERALLY AT LEAST A DISTANCE OM THE TOE AND HEEL OF THE LOWERMOST SRW UNIT.

EGATE SHALL BE ANGULAR, CLEAN STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED WITH ASTM D422:

PERCENT PASSIN
100
75-100
0-60
0-50
0-5

NO. 40 NO. 200

SEGMENTAL RETAINING WALL CONT.:

- F 405 OR ASTM F 758.

PERCENT PASSING
100
20-100
0-60
0-35

- ACCOUNT FOR ADDITIONAL INSTALLATION DAMAGE FROM PARTICLES LARGER THAN THIS MAXIMUM.

- SPECIFICATIONS.

- WORK AT THE SITE.
- DIRECTED BY THE WALL DESIGN ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR.

- LOWERMOST SRW UNIT.
- D 698).
- CONFLICT BETWEEN THE TWO REQUIREMENTS.
- THE UNITS.
- BELOW.
- LOOSENESS IN THE UNIT-TO-UNIT CONNECTION.
- NEEDED.
- OVERLAPPING SUCCESSIVE COURSES.
- INSTALLATION.
- THE WALL FACE.
- MANNER TO ASSURE 100% COVERAGE PARALLEL TO THE WALL FACE.
- THAN 5 MPH).
- REINFORCEMENT IS COVERED BY 6 INCHES OF FILL.



POROUS PAVEMENT:

- SEGMENTAL RETAINING WALL CONT.: 43. DRAINAGE AGGREGATE SHALL BE INSTALLED TO THE LINE, GRADES AND SECTIONS SHOWN ON THE FINAL P.E.-SEALED RETAINING WALL PLANS. DRAINAGE AGGREGATE SHALL BE PLACED TO THE MINIMUM THICKNESS SHOWN ON THE CONSTRUCTION PLANS BETWEEN AND BEHIND UNITS (A MINIMUM OF 1 CUBIC FOOT FOR EACH EXPOSED SQUARE FOOT OF WALL FACE UNLESS OTHERWISE NOTED ON THE FINAL WALL PLANS). 4. DRAINAGE COLLECTION PIPES SHALL BE INSTALLED TO MAINTAIN GRAVITY FLOW OF WATER OUTSIDE THE REINFORCED-SOIL ZONE. THE DRAINAGE COLLECTION PIPE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE FINAL CONSTRUCTION DRAWINGS. THE DRAINAGE COLLECTION PIPE SHALL DAYLIGHT INTO A STORM SEWER OR ALONG A SLOPE, AT AN ELEVATION BELOW THE LOWEST POINT OF THE PIPE WITHIN THE AGGREGATE DRAIN. DRAINAGE LATERALS SHALL BE SPACED AT A MAXIMUM 50-FOOT SPACING ALONG SPECIFICATIONS. THE WALL FACE. 45. THE REINFORCED BACKFILL SHALL BE PLACED AS SHOWN IN THE FINAL WALL PLANS IN THE MAXIMUM COMPACTED LIFT THICKNESS OF 8 INCHES AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D 698) AT A MOISTURE CONTENT WITHIN -1% POINT TO +3% POINTS OF OPTIMUM. THE BACKFILL SHALL BE PLACED AND SPREAD IN SUCH A MANNER AS TO ELIMINATE WRINKLES OR MOVEMENT OF THE GEOSYNTHETIC REINFORCEMENT AND THE SRW UNITS. 46. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET OF THE BACK OF THE WALL UNITS. COMPACTION WITHIN THE 3 FEET BEHIND THE WALL UNITS SHALL BE ACHIEVED BY AT LEAST THREE PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER, PLATE, OR ROLLER. 47. AT THE END OF EACH DAY'S OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LEVEL OF BACKFILL AWAY FROM THE WALL FACING AND REINFORCED BACKFILL TO DIRECT WATER RUNOFF AWAY FROM THE WALL FACE. 48. AT COMPLETION OF WALL CONSTRUCTION, BACKFILL SHALL BE PLACED LEVEL WITH FINAL TOP OF WALL ELEVATION. IF FINAL GRADING, PAVING, LANDSCAPING AND/OR STORM DRAINAGE INSTALLATION ADJACENT TO THE WALL IS NOT PLACED IMMEDIATELY AFTER WALL COMPLETION, TEMPORARY GRADING AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS NOT DIRECTED 6 AT THE WALL NOR ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTRUCTION ADJACENT TO THE WALL IS COMPLETED. 49. SRW CAPS SHALL BE PROPERLY ALIGNED AND GLUED TO UNDERLYING UNITS WITH VERSA-LOK ADHESIVE, A FLEXIBLE, HIGH-STRENGTH CONCRETE ADHESIVE. RIGID ADHESIVE OR MORTAR ARE NOT ACCEPTABLE. 50. CAPS SHALL OVERHANG THE TOP COURSE OF UNITS BY 3/4 INCH TO 1 INCH. SLIGHT VARIATION IN OVERHANG IS ALLOWED TO CORRECT ALIGNMENT AT THE TOP OF THE WALL. BULLETIN. 51. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION BY OTHERS ADJACENT TO THE WALL DOES NOT DISTURB THE WALL OR PLACE TEMPORARY CONSTRUCTION LOADS ON THE WALL THAT EXCEED DESIGN LOADS, INCLUDING LOADS SUCH AS WATER PRESSURE, TEMPORARY GRADES, OR EQUIPMENT LOADING. HEAVY PAVING OR GRADING EQUIPMENT SHALL BE KEPT A MINIMUM OF 3 FEET BEHIND THE BACK OF THE WALL FACE. EQUIPMENT WITH WHEEL LOADS IN EXCESS OF 150 PSF LIVE LOAD SHALL NOT BE OPERATED WITHIN 10 FEET OF THE FACE OF THE RETAINING WALL DURING CONSTRUCTION ADJACENT TO THE WALL. CARE SHOULD BE TAKEN BY THE GENERAL CONTRACTOR TO ENSURE WATER RUNOFF IS DIRECTED AWAY FROM THE WALL STRUCTURE UNTIL FINAL GRADING AND SURFACE DRAINAGE COLLECTION SYSTEMS ARE COMPLETED. **BIOFILTRATION BASIN:** BIOFILTRATION BASIN SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH WONR TECHNICAL STANDARD 1004: BIORETENTION FOR INFILTRATION AND THESE SPECIFICATIONS. ENGINEERED SOIL MIX SHALL CONSIST OF A MIX OF 70 TO 85% SAND AND 15 TO 30% COMPOST BASED ON VOLUME. SAND SHALL MEET 11. PREPARE AND PROOFROLL SUBGRADES AND AGGREGATE BASE COURSE AS OUTLINED IN EARTH MOVING THE REQUIREMENTS FOR FINE AGGREGATE SAND SPECIFIED SECTION 501.2.5.3.4 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION OR MEET ASTM C33 (FINE AGGREGATE CONCRETE SAND). PRIOR TO PLACEMENT IN THE BIOFILTRATION BASIN, THE ENGINEERED SOIL SHALL BE PREMIXED AND THE MOISTURE CONTENT SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DURING PLACEMENT. THE ENGINEERED SOIL SHALL BE PLACED IN MULTIPLE LIFTS, EACH APPROXIMATELY 12 INCHES IN DEPTH. ENGINEERED SOIL MIX SHALL BE FREE OF ROCKS, STUMPS, ROOTS, BRUSH OR OTHER MATERIAL OVER ONE INCH IN DIAMETER. NO OTHER MATERIALS SHALL BE MIXED WITH THEE PLANTING SOIL THAT MAY BE HARMFUL TO PLANT GROWTH OR BE A HINDRANCE TO PLANTING OR MAINTENANCE. ENGINEERED SOIL AND GRAVEL SHALL BE IN ACCORDANCE WITH THE LATEST WDNR TECHNICAL STANDARD 1004 PEA GRAVEL SHALL BE GRADED SUCH THAT MINIMUM PARTICLE SIZE IS LARGE ENOUGH TO PREVENT FALLING THROUGH PERFORATIONS OF THE UNDERDRAIN PIPE. BIOFILTRATION BASIN DRAIN PIPE: 6-INCH CORRUGATED HDPE PIPE MEETING PERFORATION REQUIREMENTS OF AASHTO M278 HIGHWAY UNDERDRAIN SPECIFICATIONS WITH 3/8" PERFORATIONS ON 6" CENTERS WITH 4 HOLES PER ROW. BEEHIVE INLET: NEENAH R-256I, OR EQUAL 10. RISER STRUCTURE: 48" DIAMETER PRECAST CATCH BASIN STRUCTURE WITH 24" TOP OPENING TO ACCOMMODATE BEEHIVE INLET. IN GENERAL ACCORDANCE WITH FILE NO. 26 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN MARKED. WISCONSIN. GRAVEL STORAGE LAYER (IF INDICATED ON PLANS): COURSE AGGREGATE #2 IN ACCORDANCE WITH SECTION 501.2.5.4.4 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. 12. FILTER FABRIC: GEOTEXTILE FABRIC IN ACCORDANCE WITH SECTION 645.2.2.4 OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION 13. EXCAVATE TO GRADES AS INDICATED ON PLANS. 14. CONSTRUCT TEMPORARY DIVERSION SWALES OR PROVIDE OTHER MEANS AS NECESSARY TO PREVENT CONSTRUCTION SITE RUNOFF FROM DISTURBED AREAS, AND RUNOFF FROM PERVIOUS AREAS WHICH HAVE NOT YET BEEN STABILIZED, FROM ENTERING THE BIORETENTION AREA. ENGINEER. 15. CONSTRUCTION SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF 20. APPLY MARKINGS TO A DRY SURFACE FREE FROM FROST. REMOVE DUST, DIRT, OIL, GREASE, GRAVEL, DEBRIS OR OTHER PONDED WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR SOIL SMEARING, CLUMPING OR OTHER FORMS OF COMPACTION. 16. COMPACTION AND SMEARING OF THE ENGINEERED SOIL AND TOP SOIL BENEATH THE FLOORS, IN THE SOIL PLANTING BED, AND THE SIDE SLOPES OF THE BASIN, AND COMPACTION OF THE ENGINEERED SOILS IN THE BASIN SHALL BE MINIMIZED. DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE BIOFILTRATION BASIN SHALL BE CORDONED OFF TO PREVENT ACCESS BY HEAVY EQUIPMENT. ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE BIOFILTRATION BASIN INCLUDES EXCAVATION HOES, LIGHT EQUIPMENT WITH TURF TYPE TIRES, MARSH EQUIPMENT OR WIDE-TRACK LOADERS. 17. IF COMPACTION OCCURS AT THE BASE OF THE BIOFILTRATION BASIN, THE SOIL SHALL BE REFRACTURED TO A DEPTH OF AT LEAST 12
- INCHES. IF SMEARING OCCURS, THE SMEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO-TILLING. 18. STEPS MAY BE TAKEN TO INDUCE MILD SETTLING OF THE ENGINEERED SOIL BED AS NEEDED TO PREPARE A STABLE PLANTING MEDIUM AND TO STABILIZE THE PONDING DEPTH. VIBRATING PLATE-STYLE COMPACTORS SHALL NOT BE UTILIZED.
- 19. ANY SEDIMENT ACCUMULATED IN THE BASIN DUE TO CONSTRUCTION ACTIVITIES SHOULD BE REMOVED AND THE ENGINEERED SOIL SHALL BE DEEP TILLED PRIOR TO PLANTING.
- 20. IMPERVIOUS LINER SHALL BE 45 MIL FIRESTONE EPDM (GSI PRODUCTS), OR 30 MIL PVC (GSI PRODUCTS), OR EQUAL.

THE COMPOSITION, PLACING AND CONSTRUCTION OF ASPHALTIC PAVEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460, 465, AND 475 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION (WISDOT STANDARD SPECIFICATIONS) AND WISCONSIN ASPHALT PAVEMENT ASSOCIATION (WAPA) POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.

CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED - INCLUDE TECHNICAL DATA AND TESTED PHYSICAL AND PERFORMANCE PROPERTIES; JOB-MIX DESIGNS: CERTIFICATION THAT MIX MEETS OR EXCEEDS WISDOT STANDARD SPECIFICATIONS; AND MATERIAL CERTIFICATES CERTIFYING COMPLIANCE WITH WISDOT STANDARD

MANUFACTURER QUALIFICATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.

ENVIRONMENTAL LIMITATIONS: DO NOT APPLY ASPHALT MATERIALS IF BASE COURSE IS WET OR EXCESSIVELY DAMP OR IF THE FOLLOWING CONDITIONS ARE NOT MET: APPLY TACK COAT WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES FAHRENHEIT FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION; PLACE ASPHALTIC CONCRETE SURFACE COURSE WHEN TEMPERATURE IS ABOVE 40 DEGREES FAHRENHEIT; BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30 DEGREES FAHRENHEIT AND RISING PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES. DO NOT APPLY BELOW THE MINIMUM PAVEMENT TEMPERATURE AS RECOMMENDED BY THE MANUFACTURER.

5. AGGREGATES SHALL BE IN ACCORDANCE WITH SECTION 460.2.2 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.

ASPHALT MATERIALS SHALL BE IN ACCORDANCE WITH CHAPTER 455 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.

7. PAVEMENT MARKING PAINT: PROVIDE PAINT FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS INDICATED OTHERWISE ON PLANS.

8. POROUS ASPHALT: POROUS ASPHALT MIXES SHALL BE COMPATIBLE WITH WISDOT-APPROVED WARM-MIX ASPHALT TECHNOLOGIES. ASPHALTIC BINDER SHALL BE GRADE 28 IN ACCORDANCE WITH WAPA POROUS ASPHALTIC TECHNICAL

AGGREGATE STORAGE RESERVOIR: USE A WASHED OR OPEN-GRADED BASE CONSISTING OF CRUSHED STONE OR CRUSHED GRAVEL WITH NO GREATER THAN 50% PASSING THE NO. 200 SIEVE. PROVIDE A MINIMUM POROSITY OF 30% PER ASTM C29 STANDARD TEST METHOD FOR BULK DENSITY AND VOIDS IN AGGREGATE. COMPLY WITH SOUNDNESS, WEAR, AND FRACTURE REQUIREMENTS LISTED IN WISCONSIN DOT STANDARD SPECIFICATION SECTION 301.2.4.5 - AGGREGATE BASE PHYSICAL PROPERTIES.

10. PAVEMENT PLACEMENT GENERAL: ASPHALT CONCRETE PAVING EQUIPMENT, WEATHER LIMITATIONS, JOB-MIX FORMULA, MIXING, CONSTRUCTION METHODS, COMPACTION, FINISHING, TOLERANCE AND PROTECTION SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE SECTIONS OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN.

SPECIFICATIONS PRIOR TO PLACEMENT OF ASPHALT PAVEMENTS. THE SLOPE OF THE SUBGRADE SHALL BE AS FLAT AS POSSIBLE BUT NO GREATER THAN 2%.

12. SWEEP LOOSE GRANULAR PARTICLES FROM SURFACE OF AGGREGATE BASE COURSE PRIOR TO PAVEMENT PLACEMENT. DO NOT DISLODGE OR DISTURB AGGREGATE EMBEDDED IN COMPACTED SURFACE OF BASE COURSE.

13. SPREAD AND FINISH ASPHALTIC MIXTURE IN ACCORDANCE WITH SECTION 450.3.2.5 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS PAVEMENTS TECHNICAL BULLETIN. PAVEMENT THICKNESSES SHALL BE AS INDICATED ON THE PLANS.

14. PROMPTLY CORRECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAVER. USE SUITABLE HAND TOOLS TO REMOVE EXCESS MATERIAL FORMING HIGH SPOTS. FILL DEPRESSIONS WITH POROUS ASPHALT TO PREVENT SEGREGATION OF MIX; USE SUITABLE HAND TOOLS TO SMOOTH SURFACE.

15. COMPACT ASPHALTIC PAVEMENT IN ACCORDANCE WITH SECTION 450.3.2.6 OF THE WISDOT STANDARD SPECIFICATIONS AS MODIFIED BY THE WAPA POROUS ASPHALT PAVEMENTS TECHNICAL BULLETIN. POROUS ASPHALT SHOULD BE COMPACTED WITH TWO TO FOUR PASSES OF A 10-TON ROLLER.

16. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT FOR AT LEAST 24 HOURS. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME

17. THICKNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS 1/4 INCH FOR BINDER COURSE AND PLUS 1/4 INCH FOR SURFACE COURSE, NO MINUS.

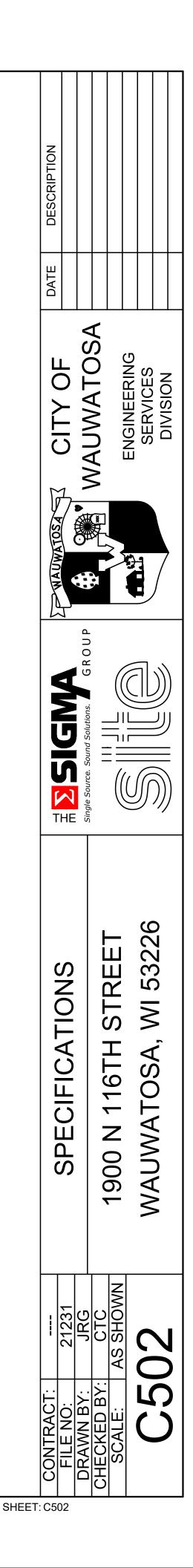
18. SURFACE SMOOTHNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS: BINDER COURSE: ¼ INCH; SURFACE COURSE: 1/8 INCH. REMOVE AND REPLACE ALL HUMPS OR DEPRESSIONS EXCEEDING THE SPECIFIED TOLERANCES.

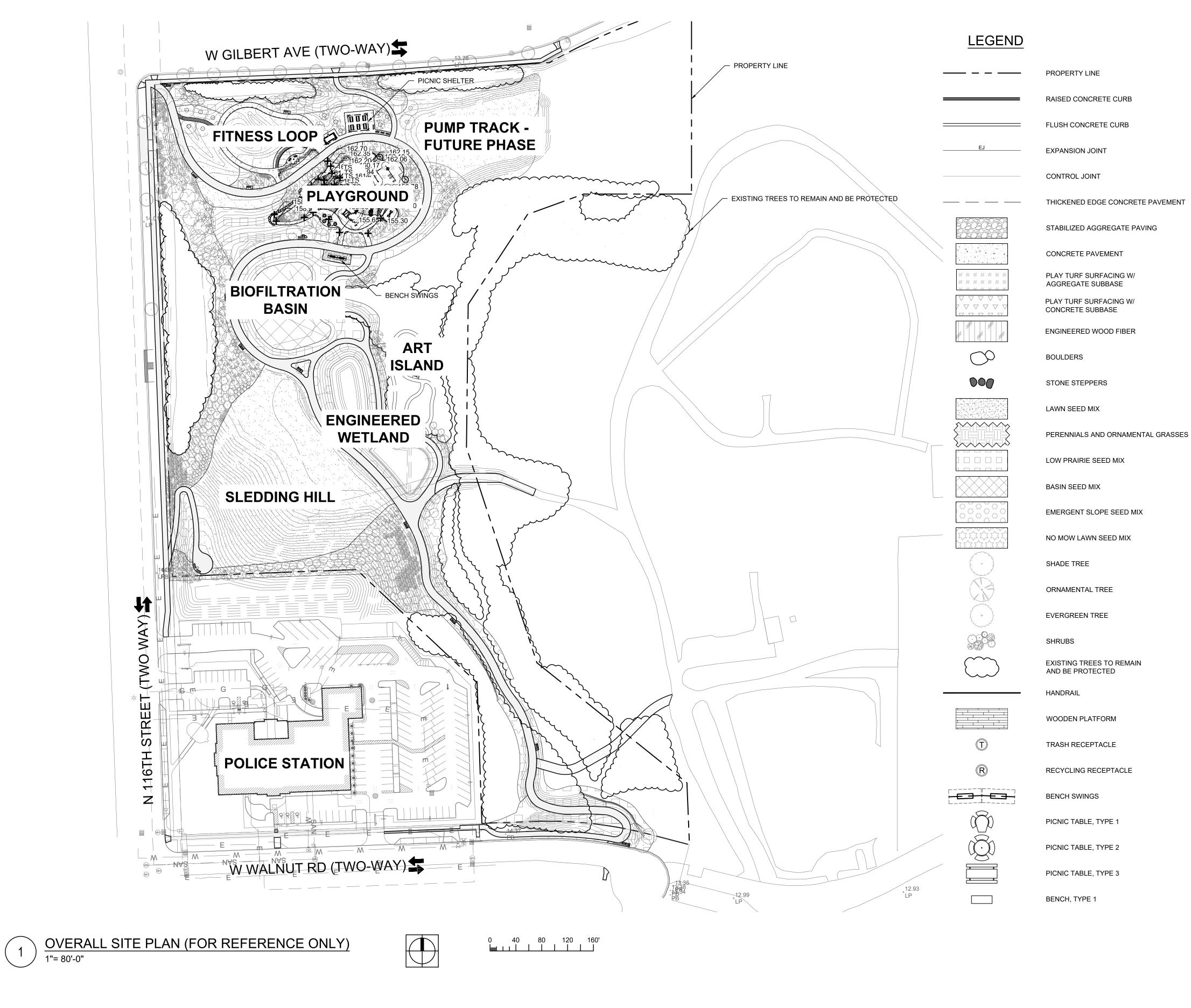
19. DO NOT APPLY PAVEMENT-MARKING PAINT UNTIL LAYOUT, COLORS, AND PLACEMENT HAVE BEEN VERIFIED WITH

MATERIAL THAT MAY PREVENT BONDING TO THE PAVEMENT.

21. APPLY PAINT AS THE MANUFACTURER SPECIFIES WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS INDICATED, WITH UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES AT A MINIMUM RATE OF 17.6 GALLONS/MILE FOR A CONTINUOUS 4" LINE.

22. TESTING AGENCY: CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND TO PREPARE TEST REPORTS

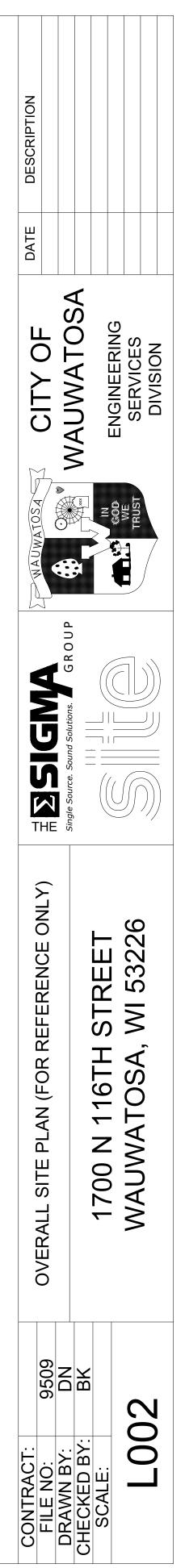




PLOT DATE:

	BENCH, TYPE 2
\bigcirc	BENCH, TYPE 3
	GAME TABLE
	BIKE RACK
	HOT COAL RECEPTACLE

NOTE: SEE SCHEDULES TO DETERMINE FURNISH AND INSTALLATION RESPONSIBILITIES



CONCRETE AND FORMWORK NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING (INCLUDING BUT NOT LIMITED TO) AMERICAN CONCRETE INSTITUTE PUBLICATIONS:
- a. ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS b. ACI 304 - GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
- c. ACI 311 GUIDE FOR CONCRETE INSPECTION d. ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
- e. ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
- f. ACI 347 GUIDE TO FORMWORK FOR CONCRETE 2. CONCRETE SHALL BE AS FOLLOWS:
- a. CONCRETE F'C PSI @ 28 DAYS
- b. FOUNDATIONS AND FOOTINGS NORMAL WEIGHT (145 PCF) F'C = 4000 PSI c. GRADE BEAMS NORMAL WEIGHT (145 PCF) F'C = 4000 PSI
- d. EXTERIOR SLAB ON GRADE NORMAL WEIGHT (145 PCF) F'C = 4000 PSI
- e. PADS FOR MEP EQUIP. NORMAL WEIGHT (145 PCF) F'C = 4000 PSI f. ELEVATED SLABS, BEAMS NORMAL WEIGHT (145 PCF) F'C = 8000 PSI
- 3. ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR- ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 6 +/- 1 1/2%
- BY VOLUME. WATER REDUCING PLASTICIZING ADMIXTURES MAY BE USED, PENDING APPROVAL OF THE AOR, SOR AND LA. 4. NO CALCIUM CHLORIDE OR CHLORIDE ION PRODUCING ADD MIXTURE SHALL BE USED IN ANY CONCRETE.
- 5. FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN COMPLETED STRUCTURES SHALL BE CONSTRUCTED FROM A SUITABLE PLASTIC SURFACED PLYWOOD WHICH WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. ALSO SEE THE SPECIFICATIONS
- 6. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL FORM TIES, CONSTRUCTION JOINTS, CURBS AND SLAB DEPRESSIONS, IF ANY, AND DESCRIBE THE CONCRETE PLACEMENT SEQUENCING. ALL CURBS SHALL BE REINFORCED WITH AT LEAST (1) - #4 CONTINUOUS AND #3 AT 16" C/C DOWELS TO THE STRUCTURE BELOW, UNO.
- 7. ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. ALLOW 24 HOURS MINIMUM TO ELAPSE BETWEEN POURS. 8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL INTERIOR FLOOR FINISHES. FLOOR DEPRESSIONS AND
- CURBS AND FOR ALL WATERPROOFING/DAMPPROOFING DETAILS. SEE MEP DRAWINGS FOR ADDITIONAL WALL AND/OR SLAB OPENINGS, AND EQUIPMENT PADS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 9. SLOPE CONCRETE SLABS, WHERE REQUIRED, DRAINS SHOWN ON THE ARCHITECTURAL CIVIL AND/OR MEP. 10. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:
 - a. FOOTINGS 3" CLEAR, SIDES AND BOTTOM b. WALLS 2" CLEAR, OUTSIDE FACE, 1 1/2" CLEAR, INSIDE FACE
 - c. SLABS 1" CLEAR d. PIERS 2" CLEAR TO TIES

DIMENSIONAL LUMBER:

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION," LATEST EDITION, BY THE NATIONAL FOREST PRODUCT ASSOCIATION. 2. STRUCTURAL LUMBER SHALL HAVE THE FOLLOWING MINIMUM IN GRADE UNIT STRESSES:
- a. GRADE: STRUCTURAL SELECT, REFER TO SPECIFICATIONS FOR SPECIES
- FB = 1200 PSI FV = 160 PSI
- FC = 1,200 PSI
- ⊥FC = 615 PSI FT = 650 PSI
- E = 1,400,000 PSI
- 3. ALL LUMBER SHALL HAVE AN AVERAGE MOISTURE CONTENT OF NOT MORE THAN 19%.
- 4. BOLT HEADS & NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED UNO.
- MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE
- LATEST VERSION OF THE APPLICABLE JURISDICTIONAL BUILDING CODES. 7. ALL STRUCTURAL WOOD EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.
- 8. ALL CONNECTIONS THROUGH PRESSURE TREATED WOOD SHALL BE MADE WITH CORROSION RESISTANT FASTENERS.

PLANTING PROTECTION AND REMOVAL NOTES:

- PRIOR TO THE COMMENCEMENT OF PLANTING PROTECTION AND REMOVAL SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- 2. CONFIRM ALL PLANTING REMOVAL AND PROTECTION QUANTITIES AND DIMENSIONS. 3. INSTALL PLANT PROTECTION FENCING PRIOR TO SITE WORK AND MAINTAIN THROUGHOUT CONSTRUCTION PERIOD. NO STORAGE OF MATERIALS, VEHICULAR ACCESS OR ANY OTHER CONSTRUCTION ACTIVITIES PERMITTED WITHIN THE TREE PROTECTION ZONE UNO
- 4. ALL PLANT AND SITE PROTECTION FENCING TO BE INSTALLED PRIOR TO HARDSCAPE DEMOLITION AND/OR CONSTRUCTION OPERATIONS. 5. ADJUST PLANT PROTECTION FENCING AS NEEDED THROUGHOUT CONSTRUCTION OPERATIONS TO PROTECT CRITICAL
- ROOT ZONES OF ALL TREES.
- MARK ALL ROOT PRUNING LOCATIONS PRIOR TO EXECUTION FOR REVIEW AND APPROVAL BY LA. PROVIDE 2 INCH (AFTER SETTLING) MULCH LAYER WITHIN CRITICAL ROOT ZONE OF EXISTING TREES AS MIN PROTECTION DURING CONSTRUCTION OPERATIONS. COORDINATE WITH AOR AND LA FOR ADDITIONAL MEASURES IF CRITICAL ROOT ZONES NEED TO BE ACCESSED FOR ANY REASON DURING CONSTRUCTION OPERATIONS. MULCH LAYER TO BE A 50/50 BLEND OF ¾ INCH SHREDDED HARDWOOD BARK FINES AND ¾ INCH PINE BARK FINES.
- PROVIDE TEMPORARY IRRIGATION FOR ALL EXISTING PLANT MATERIAL AND MAINTAIN THROUGHOUT CONSTRUCTION
- OPERATIONS. PROVIDE IN SUCH A MANNER AS TO NOT IMPACT EXISTING ROOT SYSTEMS OF PLANT MATERIAL. 9. REMOVE ALL EXISTING TREE AND SHRUB STUMPS AND ROOTS THAT IMPACT WORK. GRIND OUT STUMPS TO A MINIMUM
- DEPTH OF 18". BRING TO FINISH GRADE PRIOR TO COMPLETION OF WORK. 10. REMOVE MULCH, LAWN, AND PLANTING BEDS AND EXCAVATE EARTH TO COORDINATE WITH GRADING, EARTHWORK AND SITE IMPROVEMENTS.
- 11. FOR PLANTING REMOVAL AND PROTECTION DETAILS, SEE SHEET(S) L-008, L-501. 12. FOR PLANTING REMOVAL AND PROTECTION SCHEDULE, SEE SHEET(S) L-008.

MOCKUP NOTES:

. PRIOR TO THE COMMENCEMENT OF MOCKUPS, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.

LANDSCAPE DRAINAGE NOTES:

- . PRIOR TO THE COMMENCEMENT OF DRAINAGE SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS.
- CONFIRM ALL DRAINAGE QUANTITIES AND DIMENSIONS.
- LANDSCAPE DRAINAGE SHOWN IS IN ADDITION TO CIVIL DRAINAGE, REFER TO CIVIL.
- 4. ALL DRAINAGE PIPING AND ACCESSORIES TO BE INSTALLED IN SEGMENTS WITH APPLICABLE CONNECTIONS. CONNECTION BETWEEN DRAINAGE PIPING IS NOT SHOWN BUT IS TO BE ASSUMED AND TO BE INCLUDED IN COSTS. 5. COORDINATE TAP LOCATIONS WITH CIVIL, REFER TO CIVIL.

STRUCTURAL STEEL NOTES:

- 1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITIONS OF ALL AISC AND AWS SPECIFICATIONS AND CODES. 2. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET THE REQUIREMENTS OF ASTM A992, FY = 50 KSI, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL PIPES AND TUBES SHALL MEET THE REQUIREMENTS OF ASTM A500, GRADE B. ALL OTHER STRUCTURAL STEEL SHAPES SHALL MEET THE REQUIREMENTS OF ASTM A36 UNO ALL STEEL TO BE HOT DIP
- GALVANIZED 3. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR ASTM A440. ALL ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F1554, FY=36 KSI, UNO. ALL FASTENERS TO BE HOT DIP GALVANIZED
- 4. ALL WELDING ELECTRODES SHALL BE E70XX, UNO. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL
- CONFORM TO AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", LATEST EDITION. SHOP CONNECTIONS MAY BE WELDED UNO. MINIMUM WELDS NOT SHOWN ON THE DRAWINGS SHALL BE 1/4" FILLET WELDS ALL AROUND.
- 6. UNO ON THE DRAWINGS, ALL CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE SHEAR CONNECTIONS. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER, ASTM A325, THE MINIMUM NUMBER OF VERTICAL ROWS OF BOLTS SHALL BE AS BELOW. UNLESS NOTED OTHERWISE ON THE DRAWINGS. IN CASES WHERE REACTIONS ARE NOT INDICATED, PROVIDE AT LEAST 75% OF THE UNIFORM LOAD CARRYING CAPACITY OF THE BEAM AS DETERMINED IN THE TABLES FOR "UNIFORM LOAD CONSTANTS FOR BEAMS" IN THE AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, OR THE REACTION FORCE WHEN INDICATED ON THE DRAWING AS (F=X.X KIPS).
- a. W6,W8, W10: (2) ROWS b. W12 & W14: (3) ROWS

FILE NAME:

- SEE SPECIFICATIONS FOR CONNECTIONS DESIGN RESPONSIBILITIES.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIAL AND TEMPORARY STRUCTURAL STABILITY. 9. STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR PROPER
- FABRICATION. FITTING UP OR WELDING. 10. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WRITTEN APPROVAL OF THE AOR, SOR AND LA.
- 11. REFER TO THE ARCHITECTURAL AND/OR MEP DRAWINGS FOR ADDITIONAL STRUCTURAL AND MISCELLANEOUS STEEL REQUIREMENTS. ALL EXTERIOR EDGE ANGLES, LINTELS AND SHELF ANGLES SHALL BE STAINLESS STEEL OR GALVANIZED AFTER FABRICATION. SEE SPECIFICATION FOR REQUIREMENTS.

HARDSCAPE NOTES:

PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS. CONFIRM ALL HARDSCAPE QUANTITIES AND DIMENSIONS.

- SURVEY AND LAYOUT COSTS BY CONTRACTOR.
- ACCORDANCE WITH THE PLANS AND APPROVED FIELD LAYOUT BY AOR AND LA.
- REVIEWED AND APPROVED BY AOR AND LA PRIOR TO POURING.
- MATCH LINE AND GRADE OF PAVEMENT, LAWN AND PLANTING AREAS TO EXISTING ADJACENT AREAS.
- SLOPE OF 1%. SLOPE ALL PAVEMENT TO DRAIN.
- ADJUST UTILITY STRUCTURES TO MEET FINISH GRADE.

- ALL EXPOSED VERTICAL CONCRETE EDGES TO BE CHAMFERED 1/2", 45 UNO.
- LA IN FIELD PRIOR TO FINAL PLACEMENT OF BOULDERS.
- CONJUNCTION WITH ALL HARDSCAPE OPERATIONS.

SOIL NOTES:

- CONFIRM ALL SOIL QUANTITIES AND DIMENSIONS.
- BASE SOIL MIX SHALL BE AS FOLLOWS:
- CLAY VALUE NOT TO EXCEED (IDEAL RANGE 10-15%). SAND VALUE (IDEAL RANGE 60-70%) SAND VALUES SHALL BE MOSTLY MEDIUM TO COURSE ON THE .25 AND .50 SIEVE.
- REMAINDER TO BE SILT (IDEAL RANGE 15-30%) • ORGANIC MATTER NOT LESS THAN 3.5% AND NOT MORE THAN 5% b. LAWN TOPSOIL, EITHER EXISTING ON SITE OR IMPORTED, TO BE USED FOR NEW PLANTING SOILS ACROSS THE
- ENTIRE SITE SHALL MEET THE FOLLOWING CRITERIA (AMEND AS NECESSARY TO MEET SPEC): • CLAY VALUE NOT TO EXCEED 25% (IDEAL RANGE 5-25%). SAND VALUE (IDEAL RANGE 25-50%) SAND VALUES SHALL BE MOSTLY MEDIUM TO COURSE ON THE .25 AND .50
- REMAINDER TO BE SILT (IDEAL RANGE 25-50%)
- ORGANIC MATTER NOT LESS THAN 3.5% AND NOT MORE THAN 5% AMENDMENTS FOR PLANTING MIXES:
- 4 PARTS AGED PINE FINES 4 PARTS COURSE SAND
- 2 PARTS COMPOSTED RICE HULLS b. PLACED SOIL AMENDMENTS:
- GYPSUM-50#/1000 SF
- UMAXX UREA-4#/1000 SF POTASSIUM SULFATE-5#/1000SF
- MONO-AMMONIUM PHOSPHATE-21#/1000SF AMENDMENTS FOR LAWN MIXES:
- a. MIXED SOIL AMENDMENTS: N/A
- b. PLACED SOIL AMENDMENTS: GYPSUM-50#/1000 SF
- UMAXX UREA-4#/1000 SF
- POTASSIUM SULFATE-5#/1000SF

PARAMETERS

PLANTING NOTES:

ROW IF APPLICABLE.

EXISTING TREES.

DAMAGE TO ROOT SYSTEM

EVEN AFTER INITIAL APPROVAL

RESULTING FROM THE WORK.

UNO

- MONO-AMMONIUM PHOSPHATE-21#/1000SF PROVIDE MULTIPLE SEPARATE SOURCES FOR INITIAL TESTING IN HOPE TO MINIMIZE THE NEED FOR ADDITIONAL SOIL AMENDMENTS.
- PROVIDE 1 QUART SAMPLE ALONG WITH TESTING DATA FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO FINAL
- PROCUREMENT AND PLACEMENT. PLANTING MIX SHALL BE LOOSELY MIXED WITH A LOADER BUCKET AS FOLLOWS AND AS NECESSARY TO MEET SPEC: MIX "MIXED" SOIL AMENDMENTS TOGETHER SEPARATELY IN THE CORRECT PROPORTION, ADD SOIL AMENDMENTS BLEND TO UNSCREENED TOPSOIL. USE A PUSH AND DRAG MOTION WITH THE LOADER BUCKET, MIX THE COMPONENTS. DO NOT
- OVER MIX. USE TECHNIQUES THAT PRESERVE SOIL PEDS IN THE FINAL MIX.
- LAWN MIX TO BE APPROVED TOPSOIL WITHOUT AMENDMENTS UNO. PRIOR TO PLACEMENT SCARIFY/FRACTURE SUB-GRADE AND VERTICAL EDGES OF PLANTING SOIL EXCAVATIONS. IMPORT SOIL TO MEET PROPOSED GRADES AFTER SETTLING. TOP OF SOIL PROFILE TO MEET 85% MODIFIED PROCTOR AFTER SETTLING

PRIOR TO THE COMMENCEMENT OF HARDSCAPE SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO

- STAKE AND PAINT OUT ALL STRUCTURE EXTENTS AND FOOTING LOCATIONS, WALL FACES/BACKS, STAIR LOCATIONS, CURB FACES/BACKS AND PAVING EDGES PER PLANS FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO EXCAVATION AND INSTALLATION. ADJUST ANY LAYOUT MODIFICATIONS BY AOR AND LA AT NO ADDITIONAL COST TO THE OWNER. ALL
- 4. ESTABLISH APPROVED LAYOUT LINES AND GRADES AND MAINTAIN THROUGH CONSTRUCTION FOR VERIFICATION BY AOR AND LA. ALL LINES TO BE STRAIGHT AND TRUE, ALL CURVES SHALL BE SMOOTH AND NON-FACETED WITH BOTH IN
- FOR PRECISION OF LAYOUT REQUIREMENTS SEE SPECS. ALL EDGES OF HARDSCAPE ELEMENTS TO BE PAINTED AND MAINTAINED FOR AOR AND LA REVIEW AND APPROVAL PRIOR TO FORMING. ALL FORMING AND REINFORCEMENT TO BE
- TRANSITION SMOOTHLY BETWEEN DIFFERENT SLOPES WITHOUT ABRUPT CHANGES IN SLOPE. REFER TO GRADING PLAN. GRADE ALL HARDSCAPE SURFACES TO A MAXIMUM 5% SLOPE WITH A MAXIMUM CROSS SLOPE OF 2% AND A MINIMUM
- 10. LAYOUT CONTROL JOINTS AT A MAX 5' OC AND EXPANSION JOINTS AT A MAX 30' OC UNO. IF PAVEMENT IS ARCED, LAYOUT CONTROL JOINTS EQUALLY ALONG LENGTH OF ARCH AND PERPENDICULAR TO CENTERLINE OF ARC UNO. 11. ALL CONTROL JOINTS AND EXPANSION JOINTS ARE PERPENDICULAR AND PARALLEL TO BUILDING FACADE UNO.
- CLEARLY MARK ALL VISIBLE SAW CUT CONTROL JOINTS PRIOR TO CUTTING FOR REVIEW AND APPROVAL BY AOR AND LA. REFER TO SPECIFICATIONS FOR PAVEMENT REPAIR AND RESTORATION CRITERIA.
- 15 SET BOUILDERS OR ANY OTHER STONE FLEMENTS OR FEATURES PRIOR TO PLACING AD JACENT HARDSCAPES, PROVIDE EXPANSION JOINT BETWEEN VERTICAL ELEMENTS AND ADJACENT HORIZONTAL SURFACES. COORDINATE WITH AOR AND
- 16. COORDINATE REQUIREMENTS OF FOUNDATIONS FOR UTILITIES, LIGHTING, IRRIGATION AND SITE FURNISHINGS SCOPE IN
- 17. FOR HARDSCAPE DETAILS, SEE SHEET(S) L-503A, L-503B, L-503C, L-503D, L-503E. 18. FOR HARDSCAPE SCHEDULE, SEE SHEET(S) L-603.

a. PLANTING TOPSOIL, EITHER EXISTING ON SITE OR IMPORTED, TO BE USED FOR NEW PLANTING SOILS ACROSS THE ENTIRE SITE SHALL MEET THE FOLLOWING CRITERIA (AMEND AS NECESSARY TO MEET SPEC):

- a. MIXED SOIL AMENDMENTS (4" DEPTH PROFILE TILLED INTO THE PROPOSED SOIL PROFILE DEPTH):
- 11. PROVIDE TEST RESULTS FOR EVERY 1000 YARDS OF PLACED SOIL TO ENSURE ALL SOIL CONFORMS TO APPROVED
- 12. ONCE PLACED, SOIL PROFILES SHOULD BE PROTECTED FROM COMPACTION. SOIL PROFILES AFFECTED BY COMPACTION SHOULD BE REMOVED AND REPLACED OR AMENDED IN PLACE UNDER THE REVIEW OF AOR AND LA.
- PRIOR TO THE COMMENCEMENT OF PLANTING SCOPE OF WORK, CONVENE A PRE-CONSTRUCTION CONFERENCE WITH AOR, LA, CONTRACTOR AND ANY ASSOCIATED AND RELEVANT DESIGN TEAM MEMBERS, SUBCONTRACTORS AND AHJ TO REVIEW WORK SCOPE, SCHEDULE AND TO REVIEW Q&A BY DESIGN TEAM, AHJ AND CONTRACTORS. CONTRACTOR TO PROVIDE MINIMUM 5 BUSINESS DAY NOTICE FOR ALL MEETINGS
- CONFIRM ALL PLANTING QUANTITIES AND DIMENSIONS. QUANTITIES PROVIDED ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO VERIFY IMPLIED COVERAGE ON THE PLANTING PLANS. CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LA AT THE TIME OF BID.
- 3. ALL PLANT MATERIAL TO BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES. OBTAIN PERMIT FROM CITY OF CHICAGO BUREAU OF FORESTRY FOR ANY TREES REMOVED OR REPLACED IN THE PUBLIC
- OBTAIN A PERMIT TO REMOVE, SPRAY OR OTHERWISE AFFECT THE GENERAL HEALTH OR STRUCTURE OF EXISTING OR NEW TREES AND/OR OTHER PLANT MATERIAL.
- EXISTING PARKWAY AND INTERIOR TREES/FENCING TO BE PROTECTED WHILE PROJECT IS UNDER CONSTRUCTION AND WILL BE REPLACED IF DAMAGED BY CONTRACTOR.
- TAKE GREAT CARE NOT TO DAMAGE EXISTING OR NEW TREES OR OTHER PLANT MATERIAL DURING EXCAVATION, PLANTING AND OTHER CONSTRUCTION OPERATIONS. SEEK AOR AND LA APPROVAL TO WORK WITHIN THE DRIP LINE OF
- 8. TAKE GREAT CARE WHEN WORKING WITHIN THE DRIP LINE OF ANY TREE IF APPROVED BY AOR AND LA. WHEN TRENCHING WITHIN DRIP LINES OF ANY TREE, OPERATIONS SHOULD BE CONDUCTED BY HAND WORKING IN A WHEEL AND SPOKE MANNER WORKING FROM THE TRUNK OF THE TREE OUTWARD. DAMAGED OR TORN ROOTS SHOULD BE IMMEDIATELY REPAIRED WITH A SMOOTH, CLEAN CUT. TAKE GREAT CARE DURING TILLAGE OPERATIONS WITHIN SPECIFIED TREE PROTECTION ZONES OF TREES TO REMAIN. WHEN MAJOR ROOTS ARE ENCOUNTERED EXCAVATE BY HAND TO AVOID
- ALL PLANT MATERIAL TO BE SPECIMEN QUALITY, WELL MATCHED IN FORM, NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE OF INSECTS. DISEASE AND INJURIES WITH HABIT OF GROWTH THAT IS TYPICAL FOR THE SPECIES SIZES SHALL BE EQUAL TO OR GREATER THAN THOSE NOTED ON THE PLANT LIST(S). DO NOT PROCEED WITH PLANTING INSTALLATION UNLESS LA HAS APPROVED ALL PLANT MATERIAL. ALL B&B MATERIAL TO BE OBTAINED FROM NURSERIES WITH SIMILAR SOIL CONDITIONS AS THE PROJECT SITE.
- 10. PROVIDE AOR AND LA WITH PLANT LIST AND INTENDED NURSERY SUPPLIERS FOR EACH ITEM TO LA WITHIN 30 DAYS OF AWARD OF CONTRACT. ANY UNAVAILABLE PLANT MATERIAL SHOULD BE NOTED AT THAT TIME. AOR AND LA RESERVES THE RIGHT TO ASSIST IN PLANT SOURCING AS NECESSARY. PROVIDE AOR AND LA WITH SUBSTITUTION LIST IN THE EVENT PROPOSED MATERIALS ARE UNAVAILABLE PRIOR TO PROCUREMENT FOR FINAL REVIEW AND APPROVAL. COORDINATE NURSERY SELECTION AND TAGGING WITH AOR AND LA. AOR AND LA RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND ALL PLANT MATERIAL AS IT RELATES TO THE REQUIREMENTS IN THE SPECIFICATIONS. AOR AND LA
- RESERVES THE RIGHT TO REJECT PLANT MATERIAL IF DAMAGED OR UNHEALTHY UPON ARRIVAL TO THE PROJECT SITE 12. PROVIDE IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES FOR AT LEAST ONE PLANT OF EACH UNIQUE SPECIES DELIVERED TO THE SITE.
- 13. PRIOR TO PLANTING INSTALLATION, VERIFY PLANTING AREAS ARE GRADED AT =/-0.1 FEET TO FINISHED GRADE. 14. CONFIRM PLANTING AREAS ARE MIN 4 INCHES BELOW FINISH FLOOR ELEVATION UNO. 15. FINISHED GRADE OF PLANTING AREAS TO MEET ADJACENT HARDSCAPES 2 INCHES BELOW ELEVATION OF HARDSCAPES
- 16. IF PLANTING PITS ARE MACHINE EXCAVATED AND GLAZING IS PRONOUNCED, SCARIFY ALL SIDES. 17. REMOVE ALL ROCK AND DEBRIS 1 INCH AND LARGER FROM PLANTING AREAS. LEGALLY DISPOSE ALL EXCESS MATERIALS

- 18. WITHIN PLANTING EXCAVATIONS, REMOVE CRUSHED AGGREGATE TO AN ADEQUATE DEPTH TO ENSURE THAT NO PART OF THE PLANT MATERIAL OR FUTURE EXTENTS OF ROOT SYSTEM IS IN CONTACT OR AFFECTED BY THE LIME OR LIMESTONE WITHIN THE AGGREGATE
- 19. STAKE ALL TREES AND FLAG ALL SHRUB LOCATIONS FOR REVIEW AND APPROVAL BY AOR AND LA PRIOR TO PLANTING. PROVIDE LA WITH A MINIMUM OF 5 BUSINESS DAYS NOTICE PRIOR TO REVIEW.
- SET ALL TREES AND SHRUBS ON TOP OF FINISHED GRADE PER APPROVED STAKED AND FLAGGED LOCATIONS FOR FACING AND FINAL APPROVAL BY AOR AND LA PRIOR TO PLANTING. FOR ALL GRASSES. PERENNIALS, GROUNDCOVER AND ANNUALS, SET OUT PLANT MATERIAL ON TOP OF PROPOSED GRADE
- FOR AOR AND LA REVIEW PRIOR TO PLANTING IN ACCORDANCE WITH PLANTING PLANS. AOR AND LA RESERVE THE RIGHT TO MODIFY THE PLANTINGS AS NEEDED. INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS.
- REMOVE ALL PLANT TYING MATERIAL AND MARKING TAPES AT THE TIME OF PLANTING. LEAVE AOR AND LA NURSERY SEALS IN PLACE FOR THE DURATION OF THE SPECIFIED WARRANTY PERIOD.
- FOR B&B MATERIAL, REMOVE TOP 1/3 OF METAL CAGE AND BURLAP FROM ROOT BALL AND PROPERLY DISPOSE. DO NOT FOLD DOWN, CAGE MUST BE REMOVED. IMMEDIATELY REPORT ANY DAMAGE TO ROOT BALLS OR PLANTS TO AOR AND LA. 25. FOR CONTAINER MATERIAL WHERE APPLICABLE LOOSEN ROOT MASS BY HAND OR IF REQUIRED BY CUTTING (4) 1 INCH
- DEEP VERTICAL SLITS EVENLY SPACED AROUND ROOT BALL OF PLANT PRIOR TO PLANTING. REPEAT SLITS IN X PATTERN ON BOTTOM OF ROOT MASS. ROOT FLARE OF PLANTS TO BE SET MIN AT FINISHED GRADE OR NO MORE THAN 3 INCHES ABOVE FINISHED GRADE.
- 27. ROOT FLARE OF PLANTS INSTALLED IMMEDIATELY ADJACENT TO HARDSCAPE TO BE PLANTED NO MORE THAN 1 INCH ABOVE FINISHED GRADE TO ENSURE SMOOTH TRANSITION TO HARDSCAPE.
- FOR PERENNIALS AND GROUNDCOVERS, PLANT 1 INCH ABOVE SOIL PROFILE TO ACCOMMODATE MULCH LAYER. 29. DURING BACKFILL OF ALL PLANTS (WITH THE EXCEPTION OF SOD AND SEEDED LAWNS) SUPPLEMENT BACKFILL WITH
- PLANTING SOIL SUPPLEMENTS AS NOTED IN THE SPECS. REFER TO MANUFACTURER REQUIREMENTS FOR INSTALLATION. DO NOT ALLOW AIR POCKETS TO FORM IN SOIL WHILE BACKFILLING. 31. TREE STAKING AND GUYING TO BE REVIEWED WITH AOR AND LA WHEN DEEMED NECESSARY PRIOR TO INSTALLATION.
- 32. ALL NEWLY INSTALLED PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO THE NEW GRADE AS THEY BORE TO NURSERY GRADES UNO. 33. WATER AND MAINTAIN PLANT MATERIAL WHILE BEING STORED ON SITE, IMMEDIATELY AFTER PLANTING AND UNTIL FINAL
- ACCEPTANCE. ALL PLANTINGS BED EDGES TO HAVE A SPADED EDGE UNO. BOTTOM OF SPADED EDGE TO BE 2 INCHES BELOW THATCH OR ADJACENT HARDSCAPE SURFACE.
- 35. PROVIDE 2 INCH (AFTER SETTLEMENT) OF MULCH OVER ALL PLANTING BEDS UPON COMPLETION OF PLANTING OPERATIONS. MULCH TO BE A 50/50 BLEND OF ¾ INCH SHREDDED HARDWOOD BARK FINES AND ¾ INCH PINE BARK FINES
- 36. SOD IS TO BE CUT WITH 1 INCH OF SOIL UNO.
- 37. DO NOT ALLOW SOD TO BE ROLLED UP FOR A PERIOD LONGER THAN 12 CONSECUTIVE HOURS. 38. AOR AND LA TO APPROVE FINE GRADING OF LAWN SOIL PRIOR TO SOD INSTALLATION.
- 39. SCARIFY LAWN SOIL 1/2 INCH PRIOR TO INSTALLATION AND APPROVED BY LA.
- 40. ALTERNATE SOD SEAMS TO ELIMINATE CONTINUOUS SEAMS, OVERLAPPING ADJACENT SOD PANEL BY ½ FOR SMALL ROLL
- 41. INSTALL AND MAINTAIN SOD TO ELIMINATE LUMPS IN SURFACE AND SEAMS.
- 42. SOD TO MEET ALL ADJACENT HARDSCAPE SURFACES FLUSH WITH TOP OF THATCH LAYER. 43. ROLL SOD WITH APPROPRIATELY SIZED ROLLER TO PROVIDE PROPER SOD TO SOIL INTERFACE.
- 44. COMPLETELY WATER IN SOD DEEPLY IMMEDIATELY AFTER ROLLING.
- 45. PROTECT SEEDED AREAS AND SLOPES AGAINST EROSION AND SEED LOSS DUE TO BIRDS AND OTHER WILDLIFE BY APPLYING SHORT TERM. BIODEGRADABLE EROSION CONTROL BLANKETS, MATS, AND/OR NETTING AFTER COMPLETION OF SEEDING OPERATIONS. ADHERE TO MANUFACTURER'S REQUIREMENTS FOR REQUIRED PLACEMENT AND STAKING. 46. PRUNING OPERATIONS SHOULD FOLLOW APPLICABLE ANSI STANDARDS UNO. UPON COMPLETION OF WORK UNDER THIS
- CONTRACT, PRUNE AND REPAIR INJURIES TO ALL PLANTS. LIMIT AMOUNT OF PRUNING TO MINIMUM NECESSARY TO REMOVE INJURED OR DAMAGED BRANCHES, TWIGS AND STEMS AND TO COMPENSATE FOR THE LOSS OF ROOTS AS A RESULT OF TRANSPLANTING OPERATIONS. PRUNE IN SUCH A MANNER AS NOT TO CHANGE NATURAL HABIT OR SHAPE UNO. ALL HEDGE PRUNING TO BE COMPLETED UNDER THE REVIEW BY AOR AND LA.
- 47. DURING PUNCH LIST REVIEW, COORDINATE WITH AOR AND LA TO REVIEW AESTHETIC PRUNING NEEDS FOR ALL PLANTS. AOR AND LA TO MARK (WITH YELLOW RIBBON) OR SELF CONDUCT AESTHETIC PRUNING WITH CONTRACTOR AS PART OF THE SUBSTANTIAL COMPLETION REVIEW.
- WARRANTY ALL PLANT MATERIAL FOR A MIN PERIOD OF 1 YEAR FROM FINAL ACCEPTANCE UNO IN THE SPECIFICATIONS. REMOVE AND REPLACE PLANTS AS DETERMINED BY LA TO BE SIGNIFICANTLY UNHEALTHY OR DEAD PER THE CRITERIA SET FORTH IN THE SPECS. CONDUCT REPLACEMENTS DURING THE APPROPRIATE PLANTING SEASON AS DETERMINED BY THE LOCAL CLIMATE AND INDUSTRY STANDARDS. REPLACEMENTS SHOULD CONFORM TO THE CRITERIA SHOWN AND SPECIFIED. SEE SPECS FOR ALL MAINTENANCE REQUIREMENTS. SIZE. CHARACTER AND FORM OF ALL REPLACEMENTS TO BE SIMILAR TO THE ORIGINAL APPROVED MATERIAL AND APPROVED BY THE AOR AND LA.
- 49. ALL PLANT MATERIAL IS SHOWN AS ANTICIPATED SIZE AT INSTALLATION. PLANT GROWTH VARIES BY SPECIES AND YEARLY CLIMACTIC CONDITIONS

SYMBOLS:		SHEET II	NDEX			
		Sheet Number S	Sheet Title			
DETAIL	X ELEVATION	L002 C L003 G	OVERALL SITE PLAN (FOR REFERENCE ONLY) GENERAL NOTES ANDSCAPE SITE PLAN			9
XXXXX SECTION		L101A.2 L. L102A.2 P L103A.1 H L103A.2 H	ANDSCAPE SITE PLAN ENLARGEMENT ANDSCAPE PLAN ENLARGEMENT PLAYGROUND GRADING PLAN ENLARGEMENT HARDSCAPE PLAN ENALRGEMENT HARDSCAPE PLAN ENLARGEMENT	NOTES	REE	, WI 5322
ABBREVIATIONS:		L105 S	PLAYGROUND EQUIPMENT ENLARGEMENT PLAN (FOR REFERENCE ONLY) SOILS PLAN PLANTING PLAN			OSA
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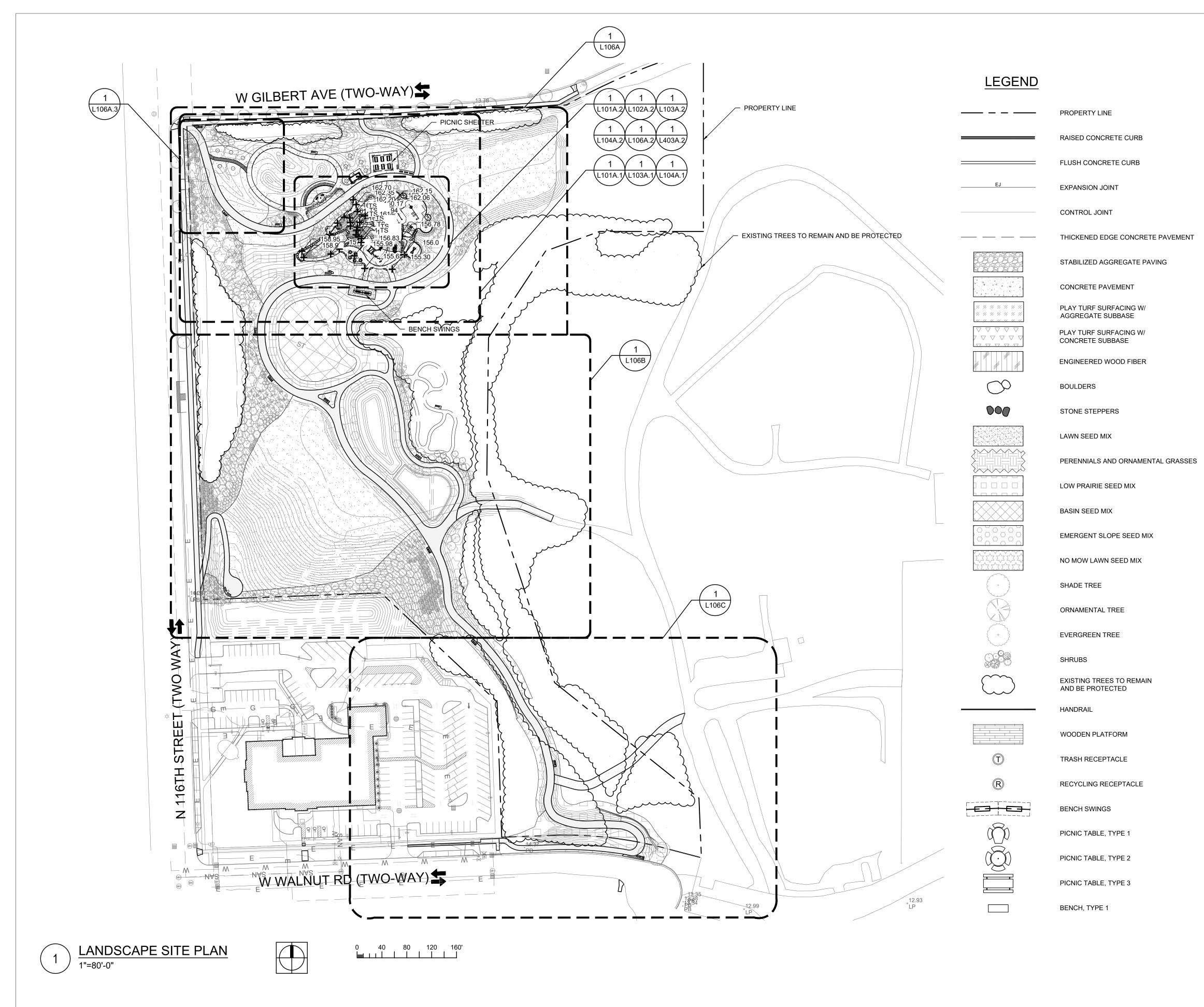
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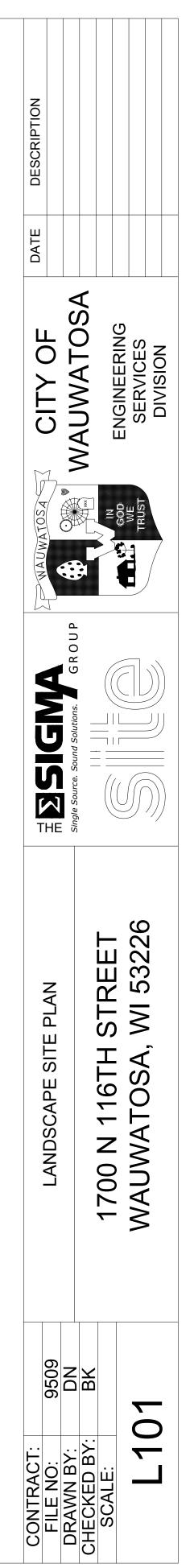
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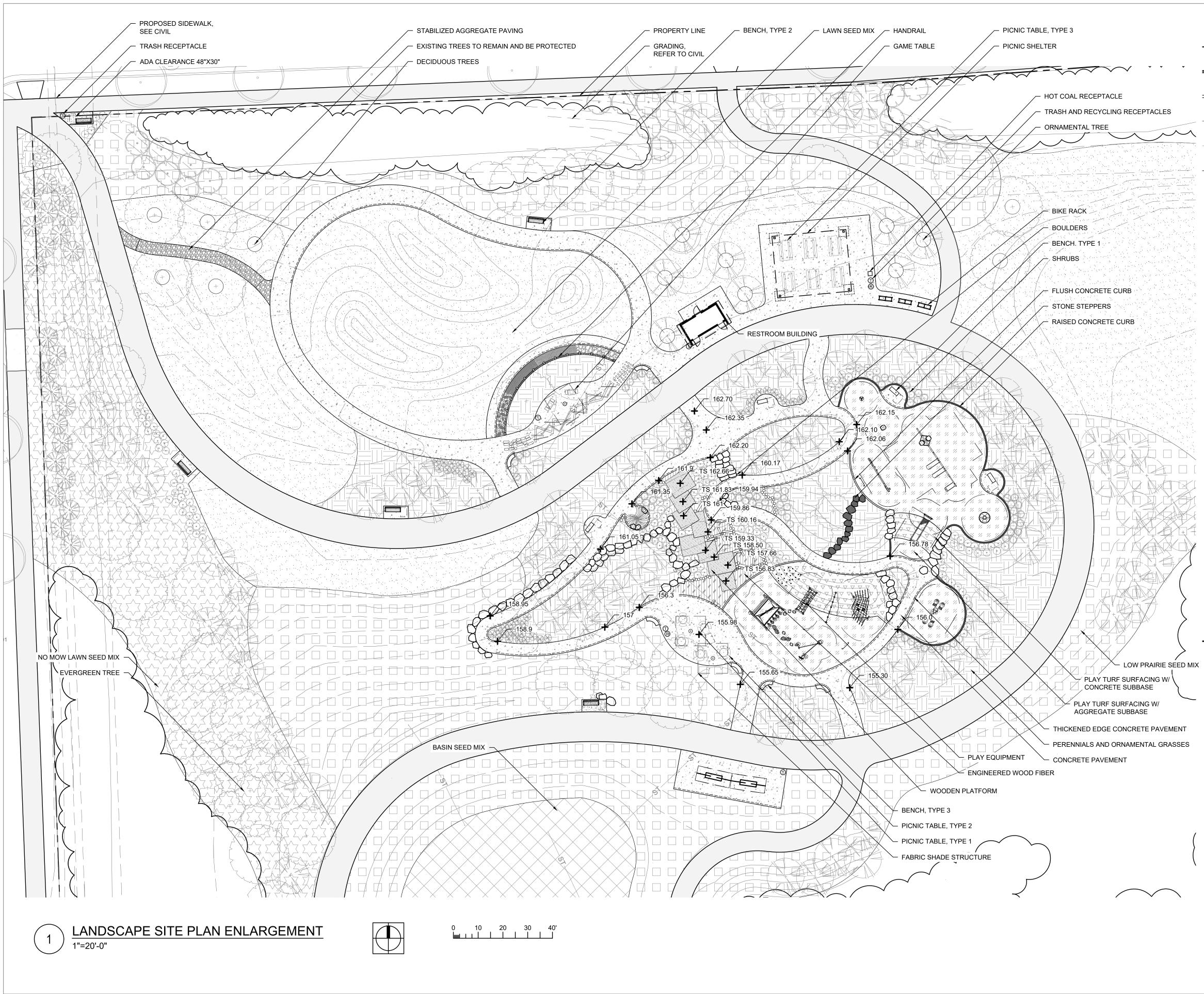
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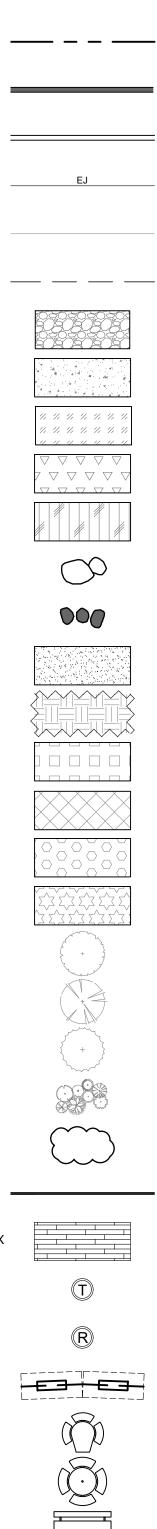
FILE NAME:

	BENCH, TYPE 2
\bigcirc	BENCH, TYPE 3
	GAME TABLE
	BIKE RACK
	HOT COAL RECEPTACLE
	ADA CLEARANCE





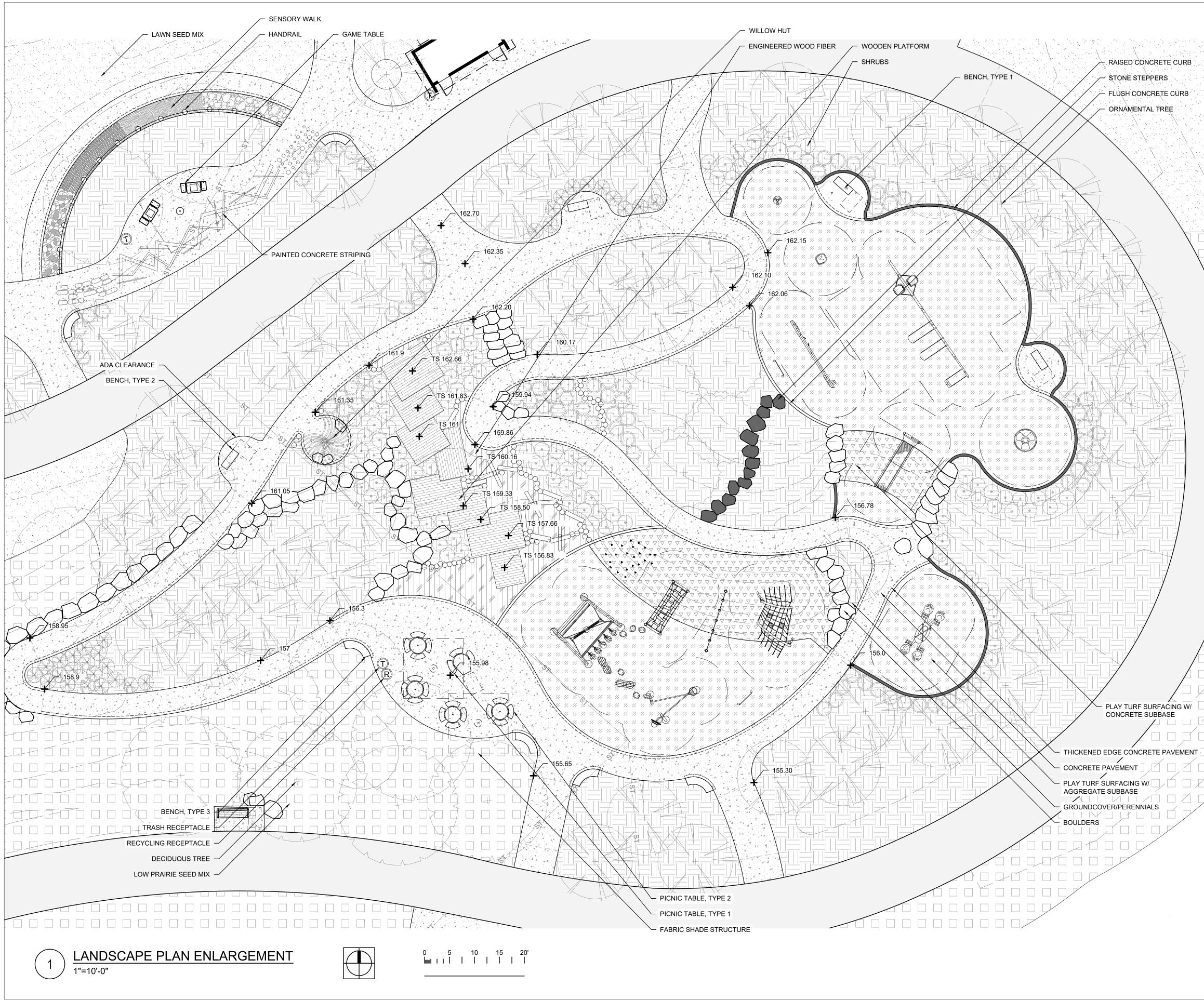
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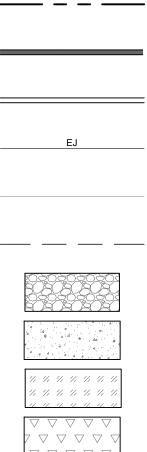
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PROPERTY LINE	NO
RAISED CONCRETE CURB	DESCRIPTION
FLUSH CONCRETE CURB	DESO
EXPANSION JOINT	
CONTROL JOINT	DATE
THICKENED EDGE CONCRETE PAVEMENT	\checkmark
STABILIZED AGGREGATE PAVING	н С _О
CONCRETE PAVEMENT	CITY OF AUWATOSA ENGINEERING SERVICES DIVISION
PLAY TURF SURFACING W/ AGGREGATE SUBBASE	JVAT JVAT GINEERI SERVICE
PLAY TURF SURFACING W/ CONCRETE SUBBASE	
ENGINEERED WOOD FIBER	
BOULDERS	INUST INUST
STONE STEPPERS	
LAWN SEED MIX	
PERENNIALS AND ORNAMENTAL GRASSES	
LOW PRAIRIE SEED MIX	C C N
BASIN SEED MIX	
EMERGENT SLOPE SEED MIX	
NO MOW LAWN SEED MIX	Single Source. Sound Solutions.
SHADE TREE	
ORNAMENTAL TREE	
EVERGREEN TREE	
SHRUBS	с ВЕТ 13226
EXISTING TREES TO REMAIN AND BE PROTECTED	REE 532
HANDRAIL	
WOODEN PLATFORM	Ä, Ä
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RECYCLING RECEPTACLE	ANDSCAPE SITE ENLARGEME D N 116TH S JWATOSA, V
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PICNIC TABLE, TYPE 3	
BENCH, TYPE 1	
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BENCH, TYPE 3	A. A. BK
GAME TABLE	
BIKE RACK	ACT: NO: NBY: LE: 10
HOT COAL RECEPTACLE	
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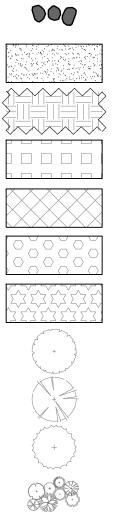
SHEET:



LEGEND



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PROPERTY LINE

RAISED CONCRETE CURB

FLUSH CONCRETE CURB

EXPANSION JOINT

CONTROL JOINT

THICKENED EDGE CONCRETE PAVEMENT

STABILIZED AGGREGATE PAVING

CONCRETE PAVEMENT

PLAY TURF SURFACING W/ AGGREGATE SUBBASE

PLAY TURF SURFACING W/ CONCRETE SUBBASE

ENGINEERED WOOD FIBER

BOULDERS

STONE STEPPERS

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW LAWN SEED MIX

SHADE TREE

ORNAMENTAL TREE

EVERGREEN TREE

SHRUBS

EXISTING TREES TO REMAIN AND BE PROTECTED

HANDRAIL

WOODEN PLATFORM

TRASH RECEPTACLE

RECYCLING RECEPTACLE

BENCH SWINGS

PICNIC TABLE, TYPE 1

PICNIC TABLE, TYPE 2

PICNIC TABLE, TYPE 3

BENCH, TYPE 1

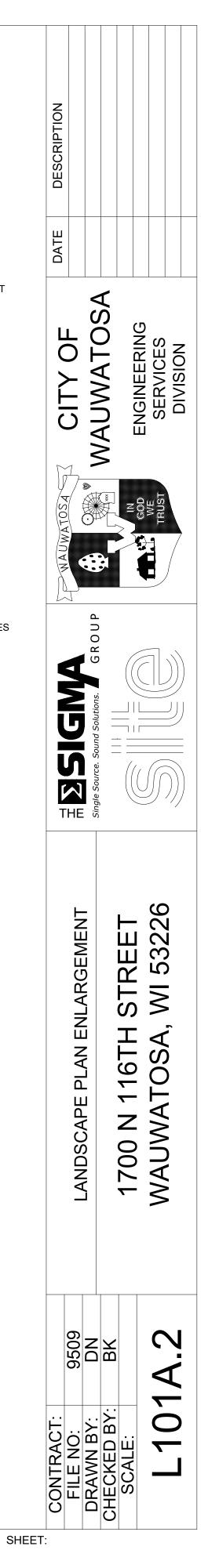
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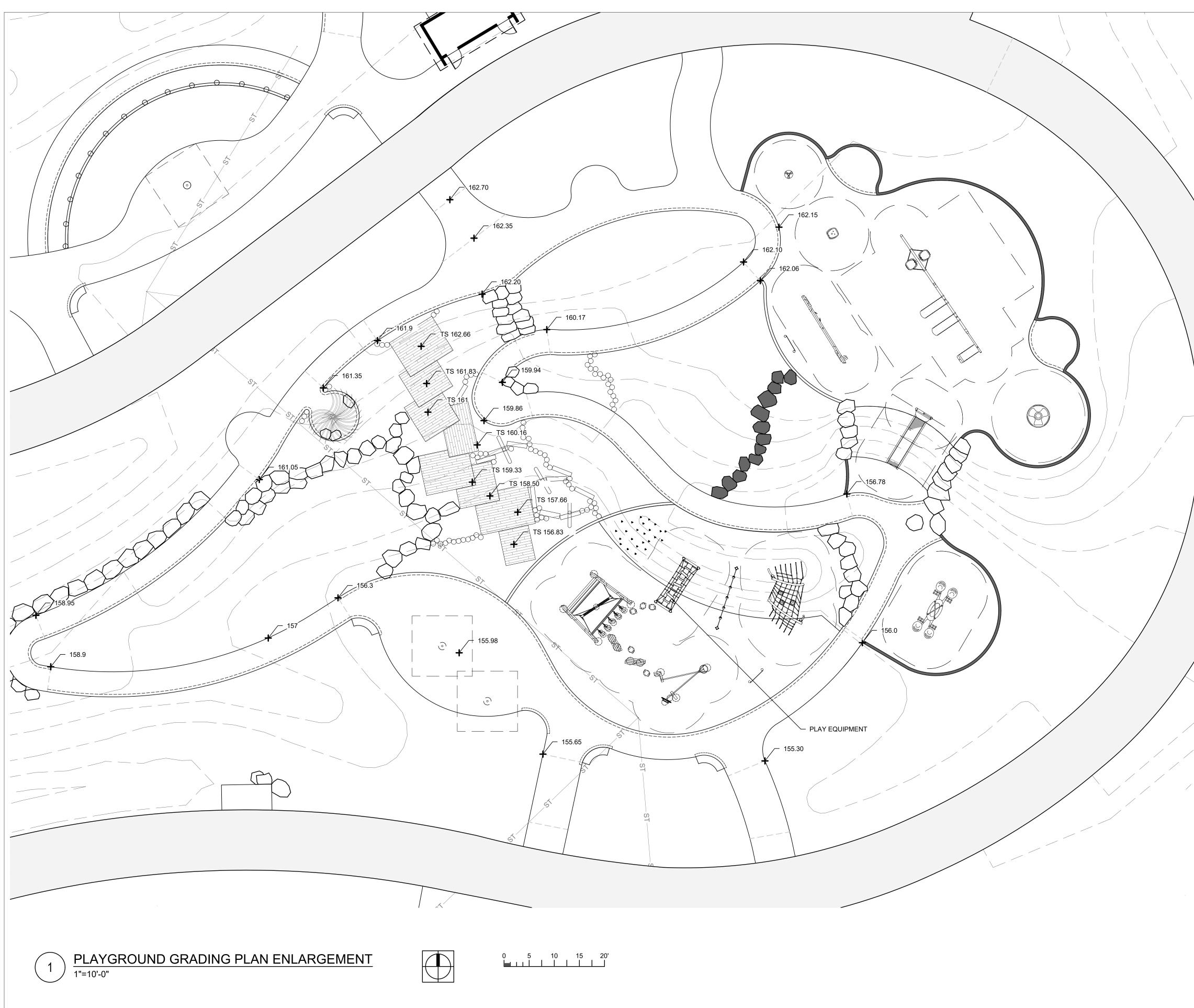
BENCH, TYPE 3

GAME TABLE

BIKE RACK

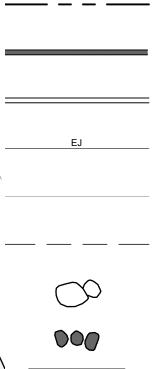
HOT COAL RECEPTACLE





FILE NAME:

LEGEND



PROPERTY LINE

RAISED CONCRETE CURB

FLUSH CONCRETE CURB

EXPANSION JOINT

CONTROL JOINT

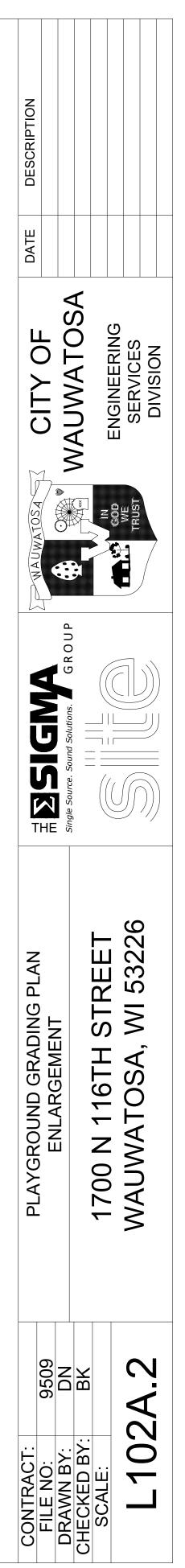
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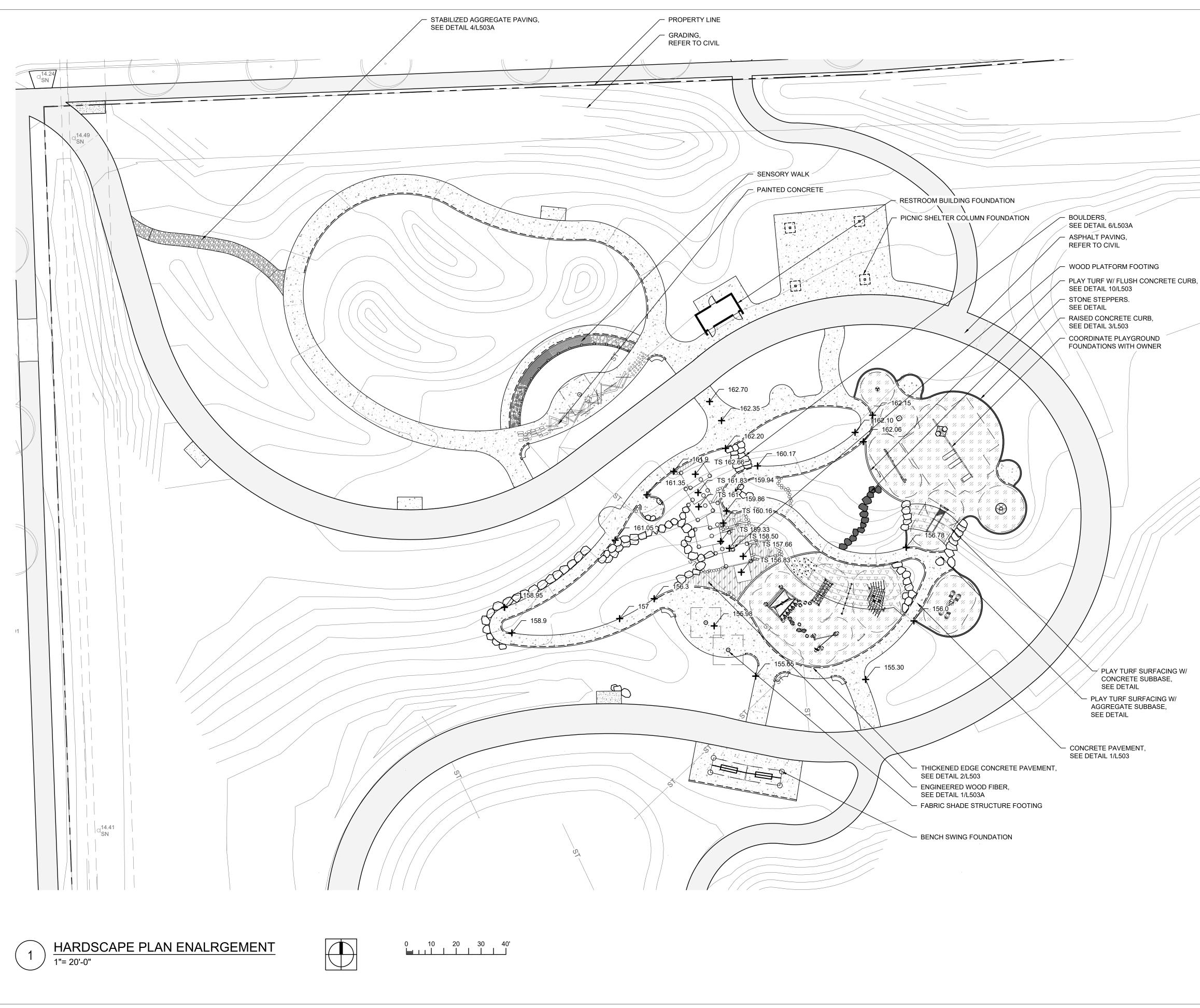
BOULDERS

STONE STEPPERS

WOODEN PLATFORM

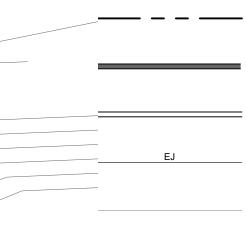
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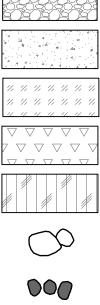




FILE NAME:

LEGEND





PROPERTY LINE

RAISED CONCRETE CURB

FLUSH CONCRETE CURB

EXPANSION JOINT

CONTROL JOINT

THICKENED EDGE CONCRETE PAVEMENT

STABILIZED AGGREGATE PAVING

CONCRETE PAVEMENT

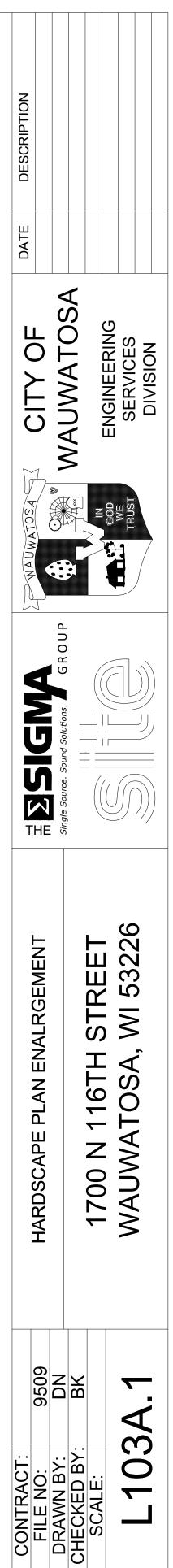
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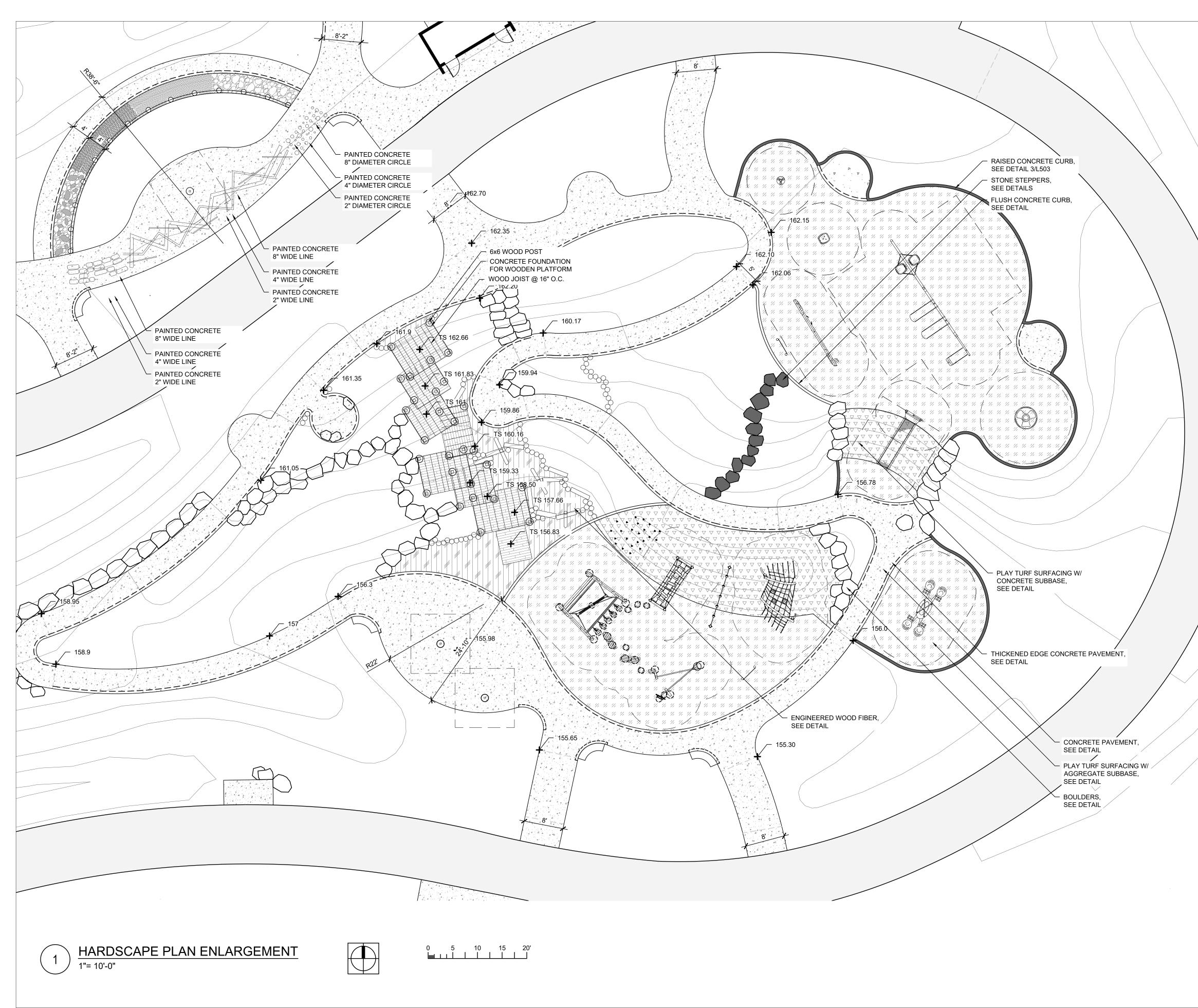
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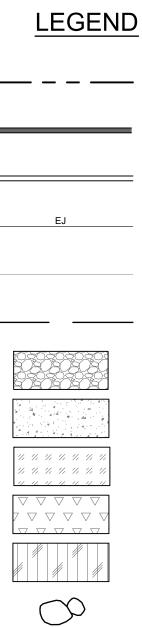
ENGINEERED WOOD FIBER

BOULDERS

STONE STEPPERS







PROPERTY LINE

RAISED CONCRETE CURB

FLUSH CONCRETE CURB

EXPANSION JOINT

CONTROL JOINT

THICKENED EDGE CONCRETE PAVEMENT

STABILIZED AGGREGATE PAVING

CONCRETE PAVEMENT

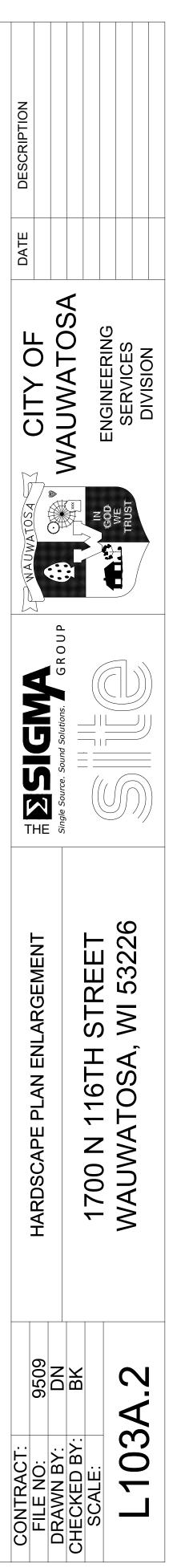
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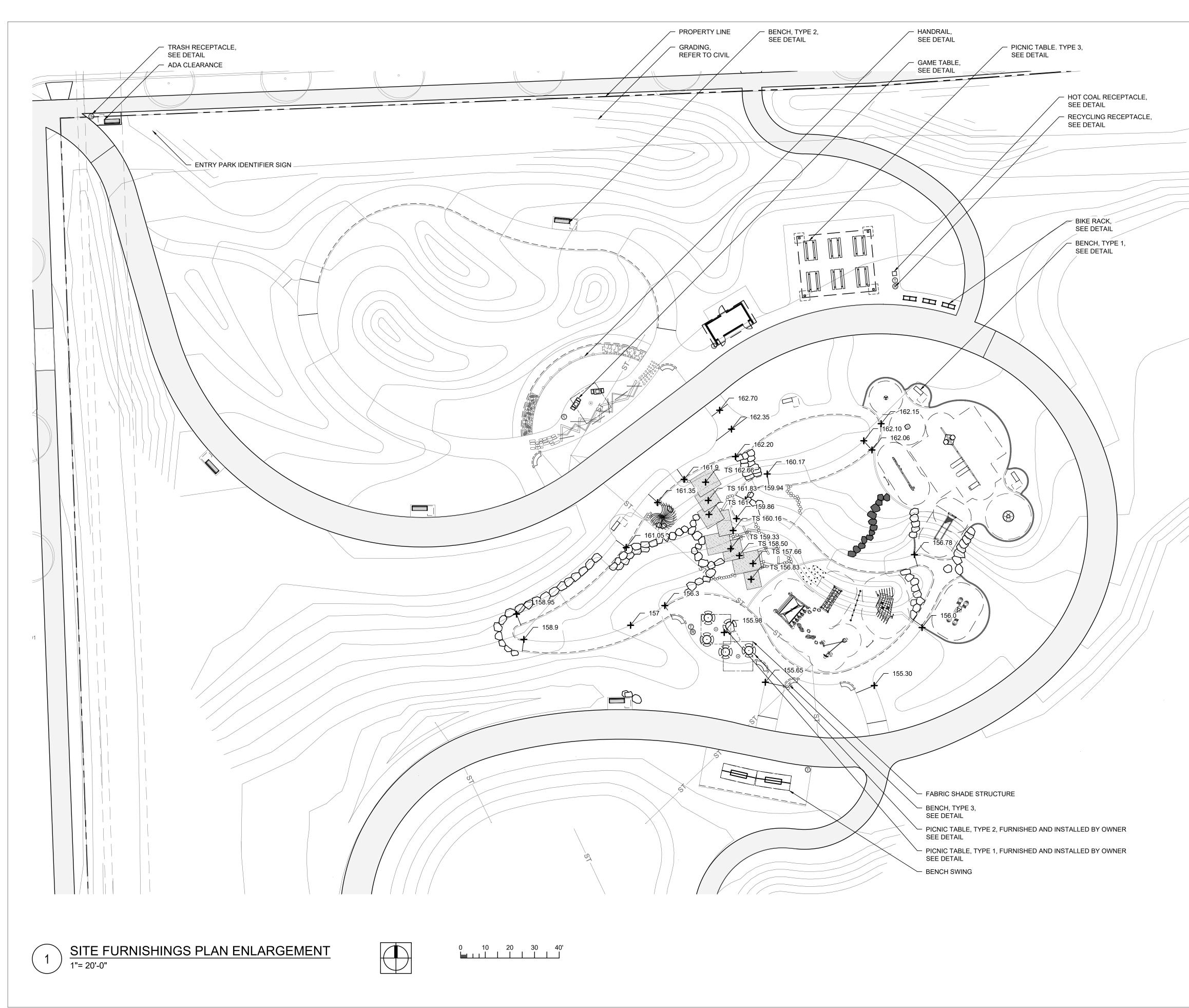
PLAY TURF SURFACING W/ CONCRETE SUBBASE

ENGINEERED WOOD FIBER

BOULDERS

STONE STEPPERS





<u>LEGEND</u>

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PROPERTY LINE

 WOODEN PLATFORM

 BENCH SWINGS

 TRASH RECEPTACLE

 RECYCLING RECEPTACLE

 PICNIC TABLE, TYPE 1

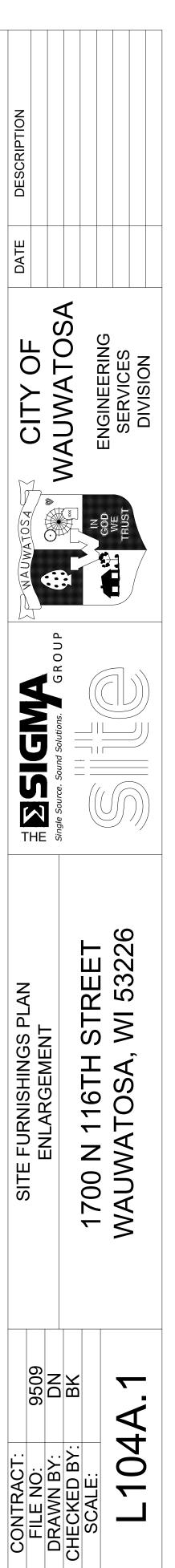
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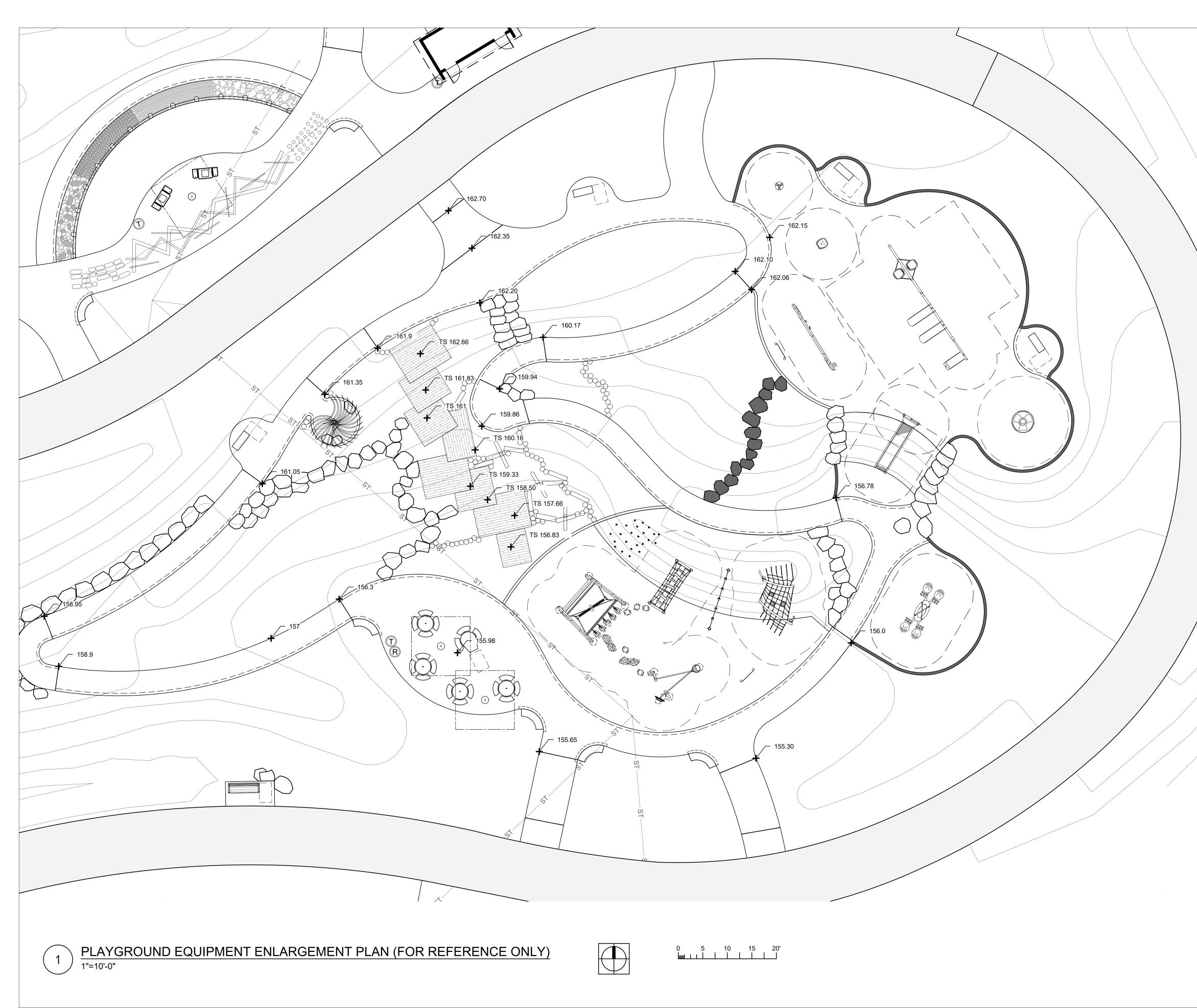
 BENCH, TYPE 1

 BENCH, TYPE 3

 BENCH, TYPE 3

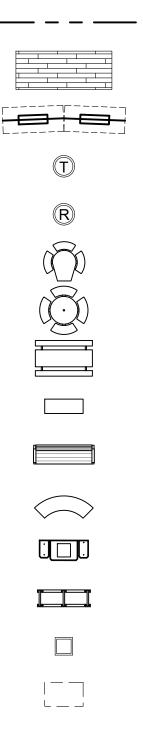
ADA CLEARANCE



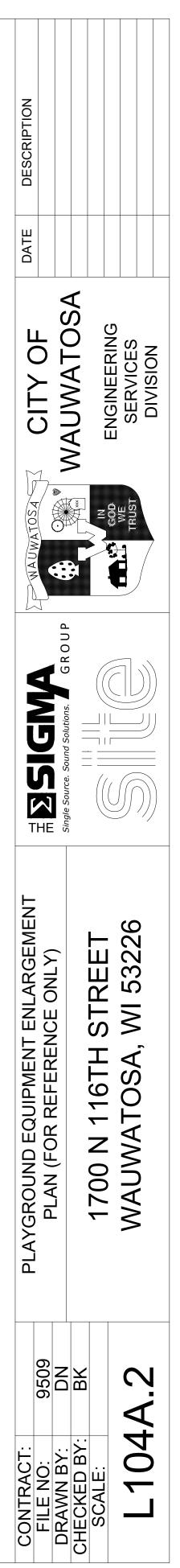


PLOT DATE:

LEGEND



PROPERTY LINE
WOODEN PLATFORM
BENCH SWINGS
TRASH RECEPTACLE
RECYCLING RECEPTACLE
PICNIC TABLE, TYPE 1
PICNIC TABLE, TYPE 2
PICNIC TABLE, TYPE 3
BENCH, TYPE 1
BENCH, TYPE 2
BENCH, TYPE 3
GAME TABLE
BIKE RACK
HOT COAL RECEPTACLE
ADA CLEARANCE





<u>LEGEND</u>

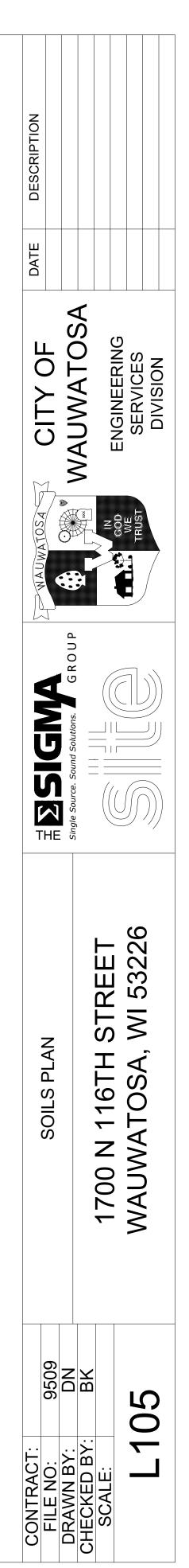
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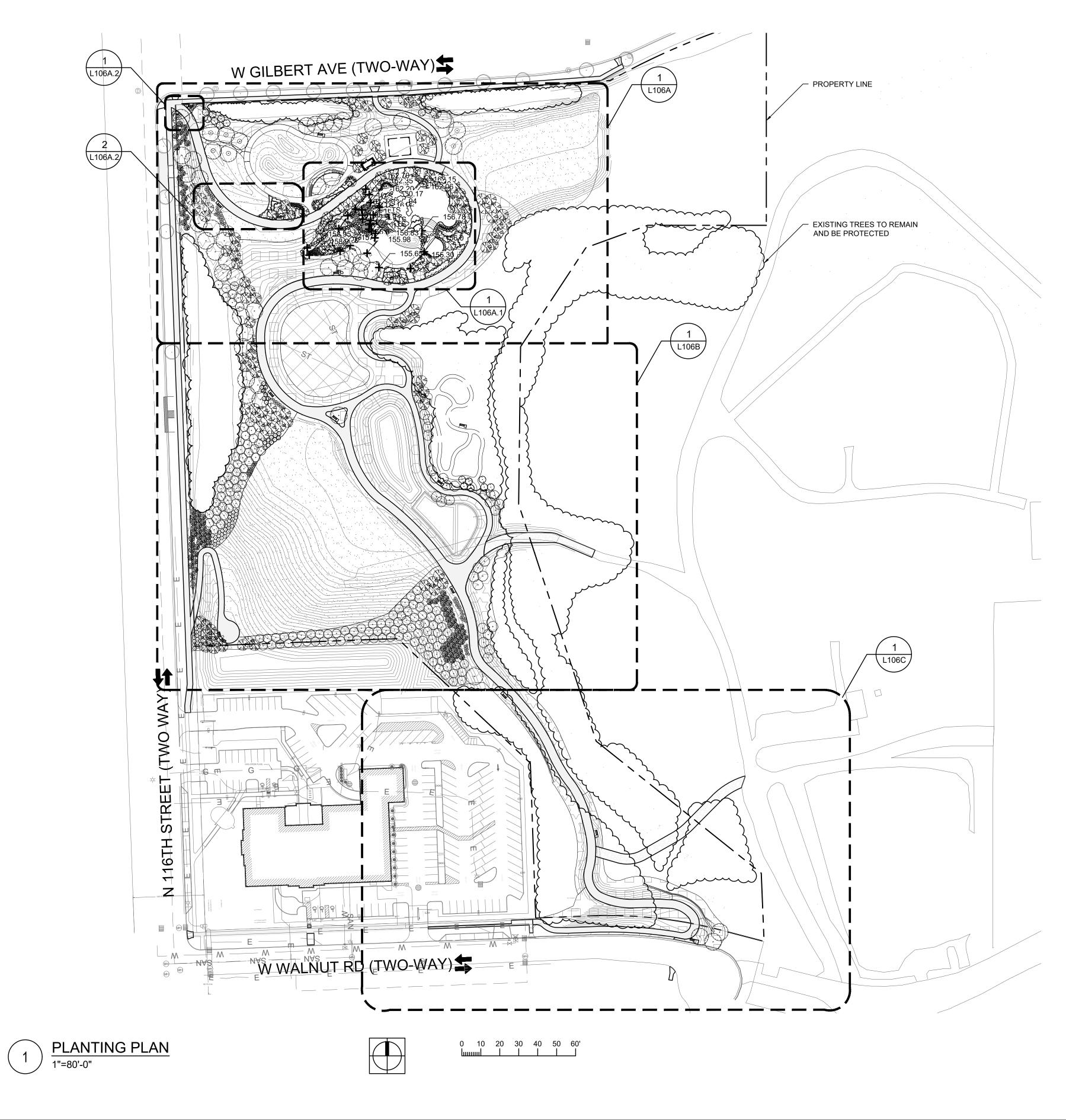
PROPERTY LINE

TOPSOIL IMPORT AND PLACEMENT 4" DEPTH

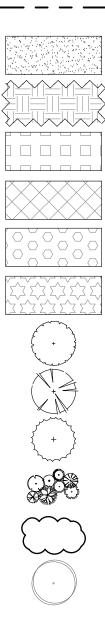
PLANTING SOIL: 24" DEPTH

TOPSOIL WITH FIBER: 12" DEPTH





<u>LEGEND</u>



PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW TURF

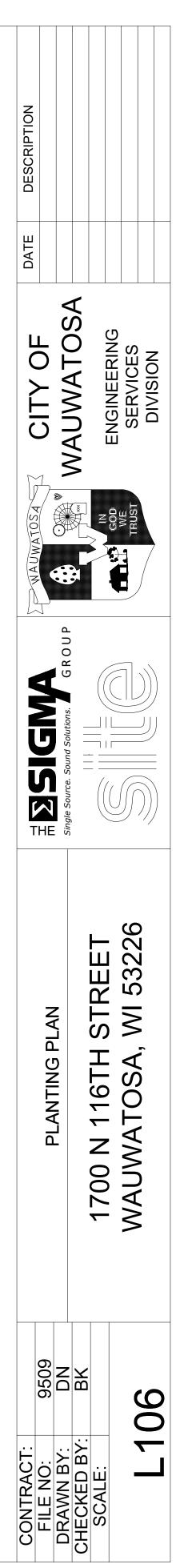
SHADE TREE

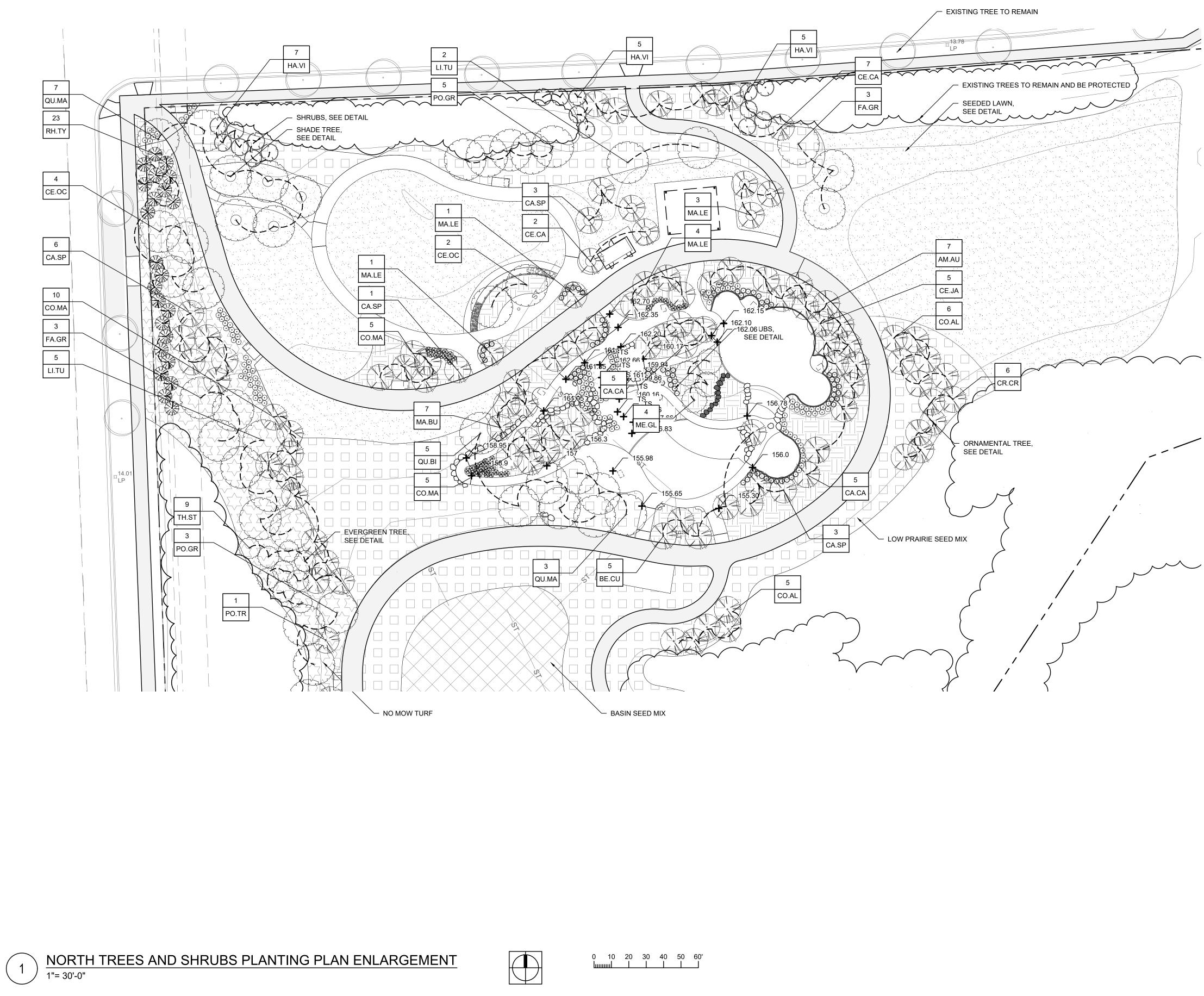
ORNAMENTAL TREE

EVERGREEN TREE

SHRUBS

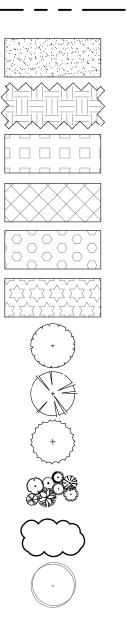
EXISTING TREES TO REMAIN AND BE PROTECTED





PLOT DATE:

LEGEND



PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW TURF

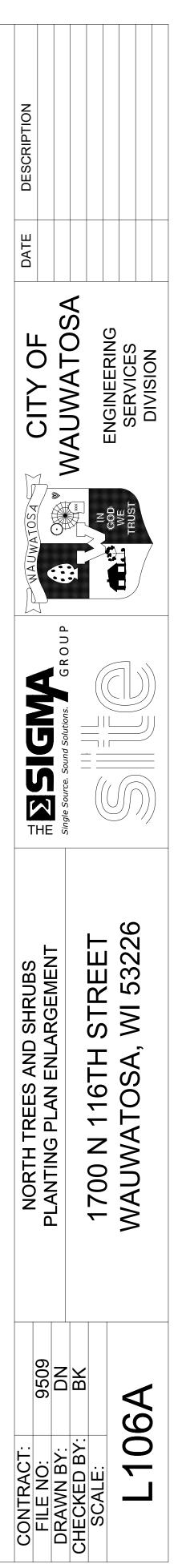
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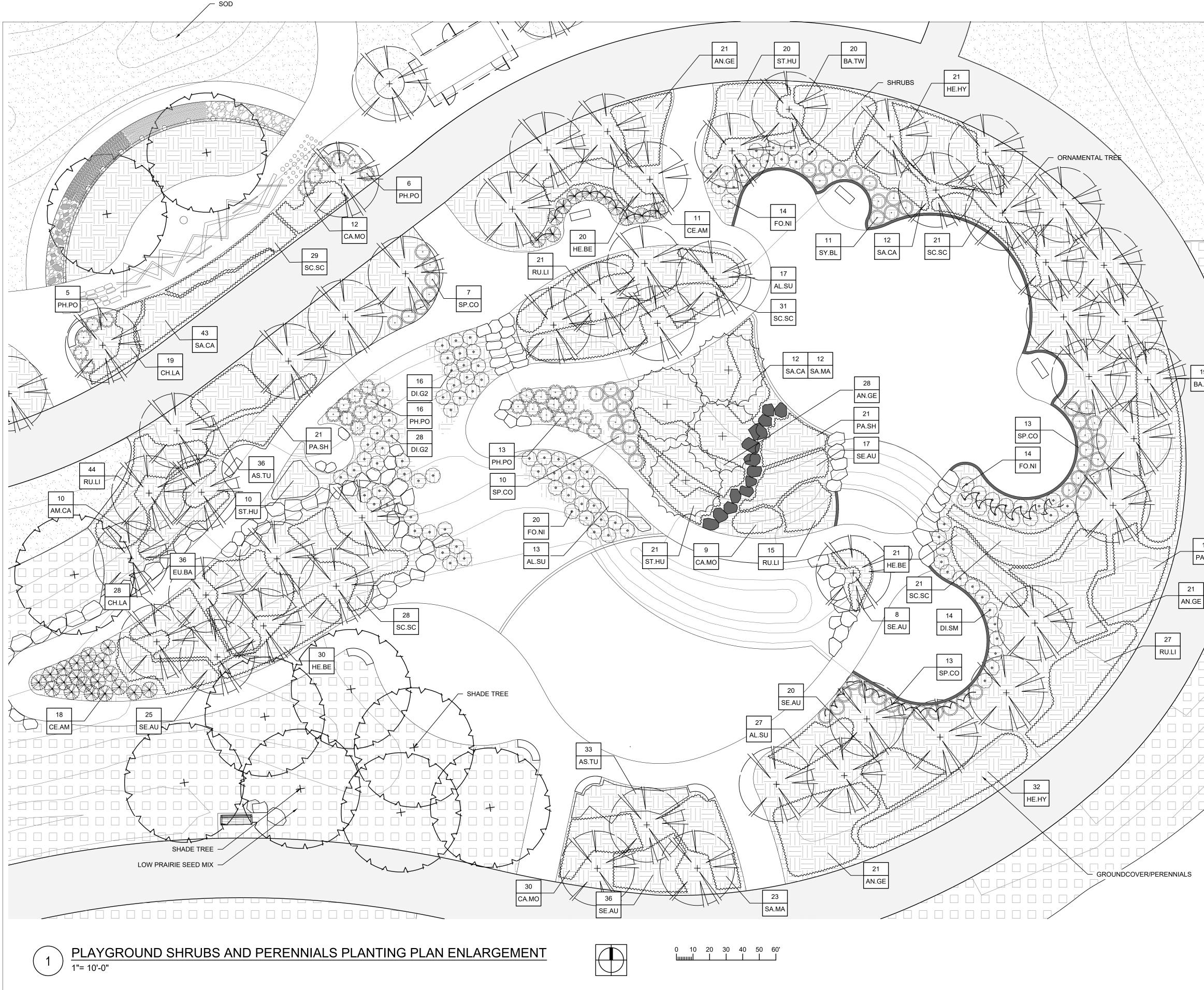
ORNAMENTAL TREE

EVERGREEN TREE

SHRUBS

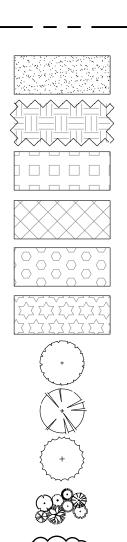
EXISTING TREES TO REMAIN AND BE PROTECTED





PLOT DATE:

LEGEND



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PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW TURF

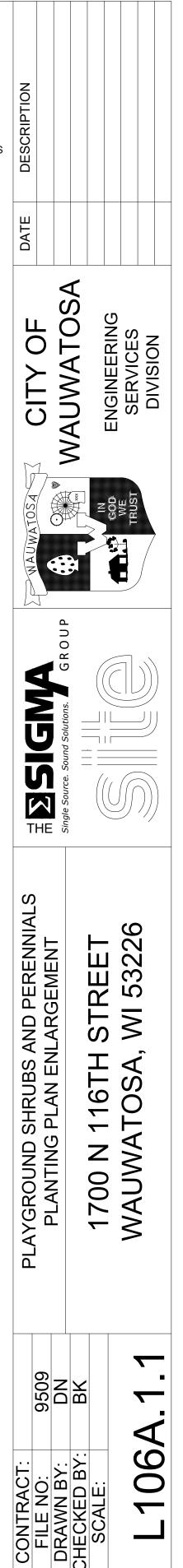
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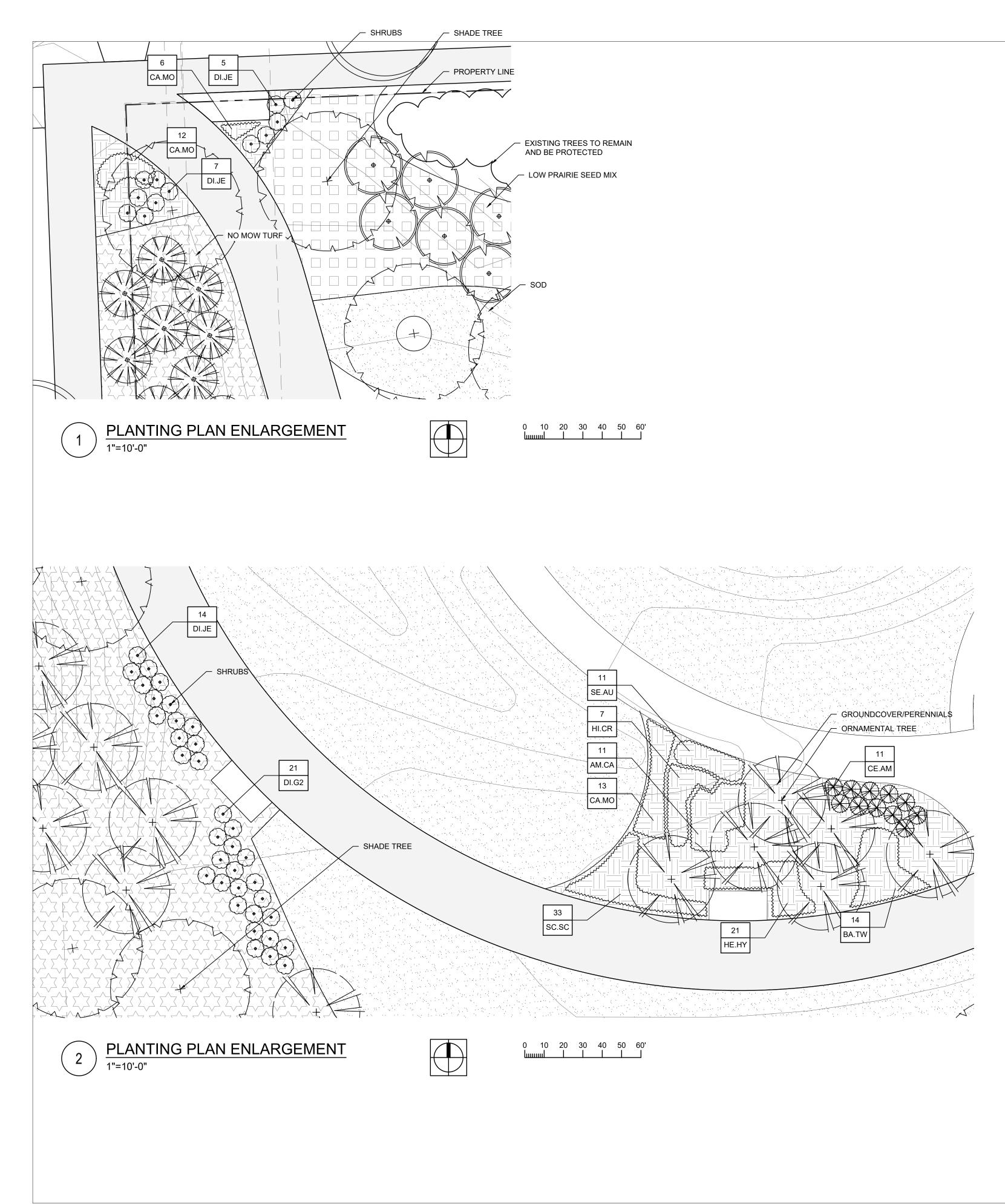
ORNAMENTAL TREE

EVERGREEN TREE

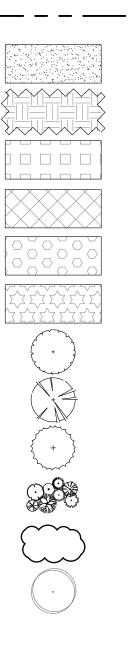
SHRUBS

EXISTING TREES TO REMAIN AND BE PROTECTED





LEGEND



PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW TURF

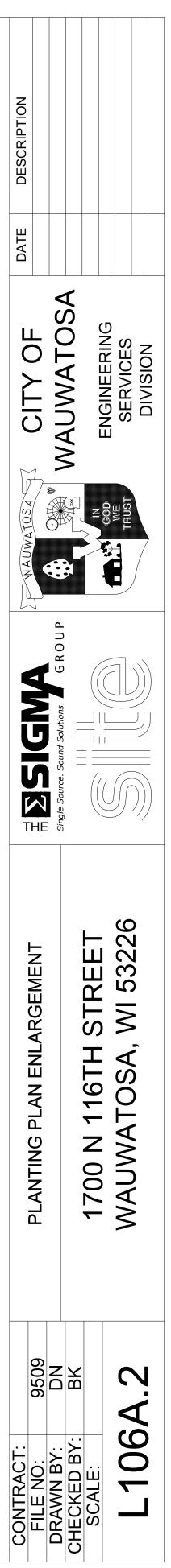
SHADE TREE

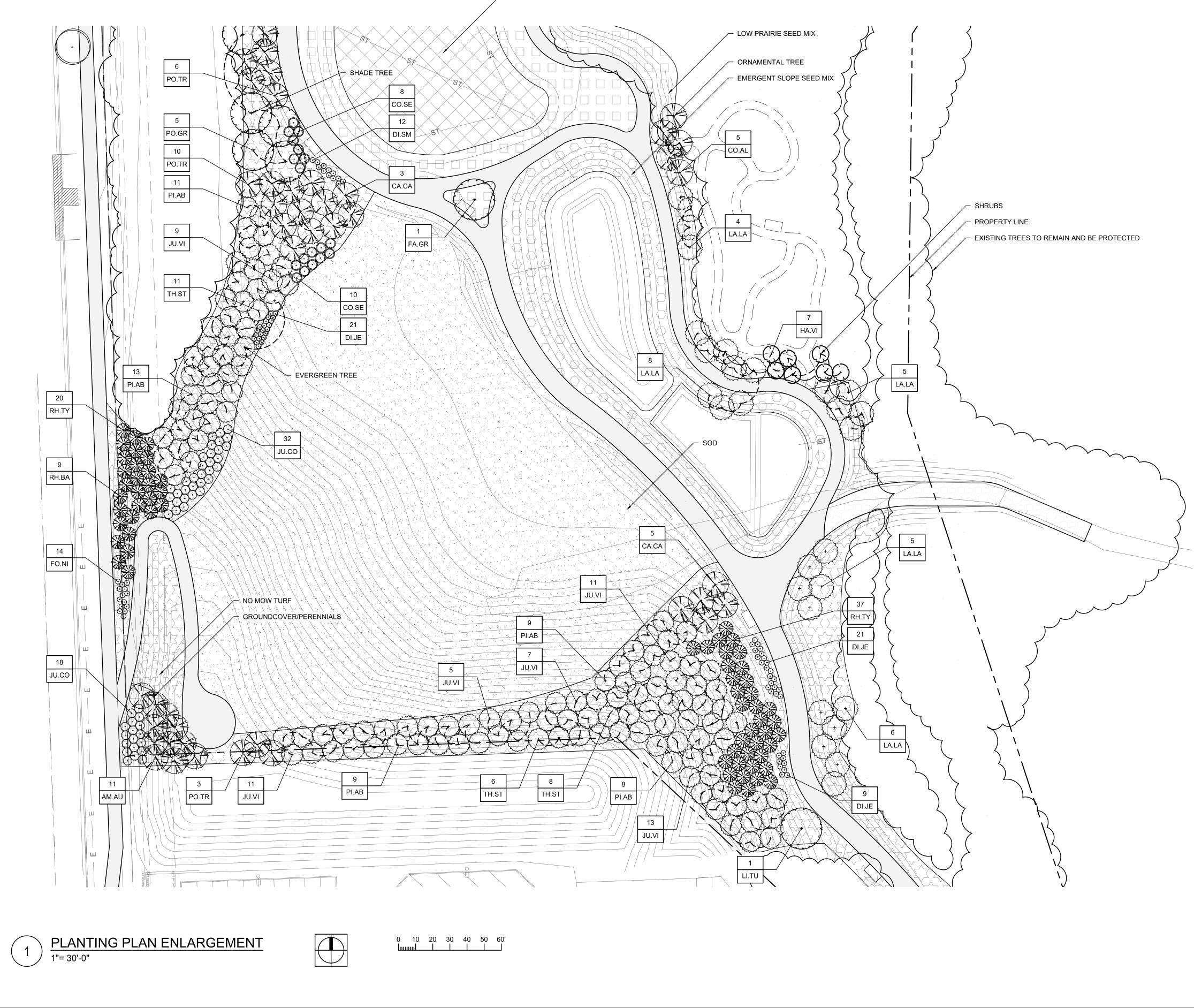
ORNAMENTAL TREE

EVERGREEN TREE

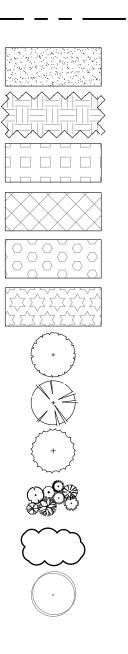
SHRUBS

EXISTING TREES TO REMAIN AND BE PROTECTED





LEGEND



PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

LOW PRAIRIE SEED MIX

BASIN SEED MIX

EMERGENT SLOPE SEED MIX

NO MOW TURF

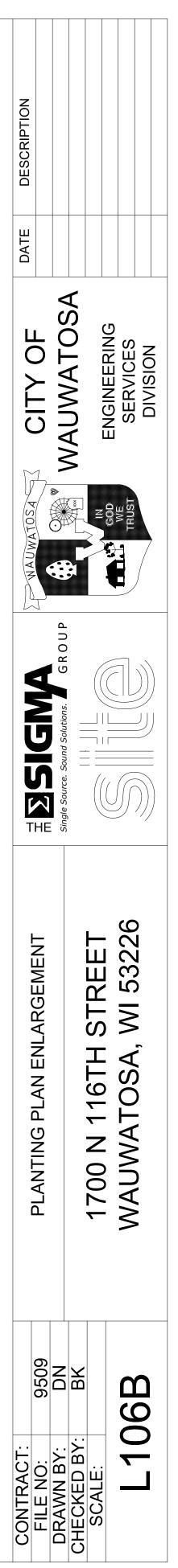
SHADE TREE

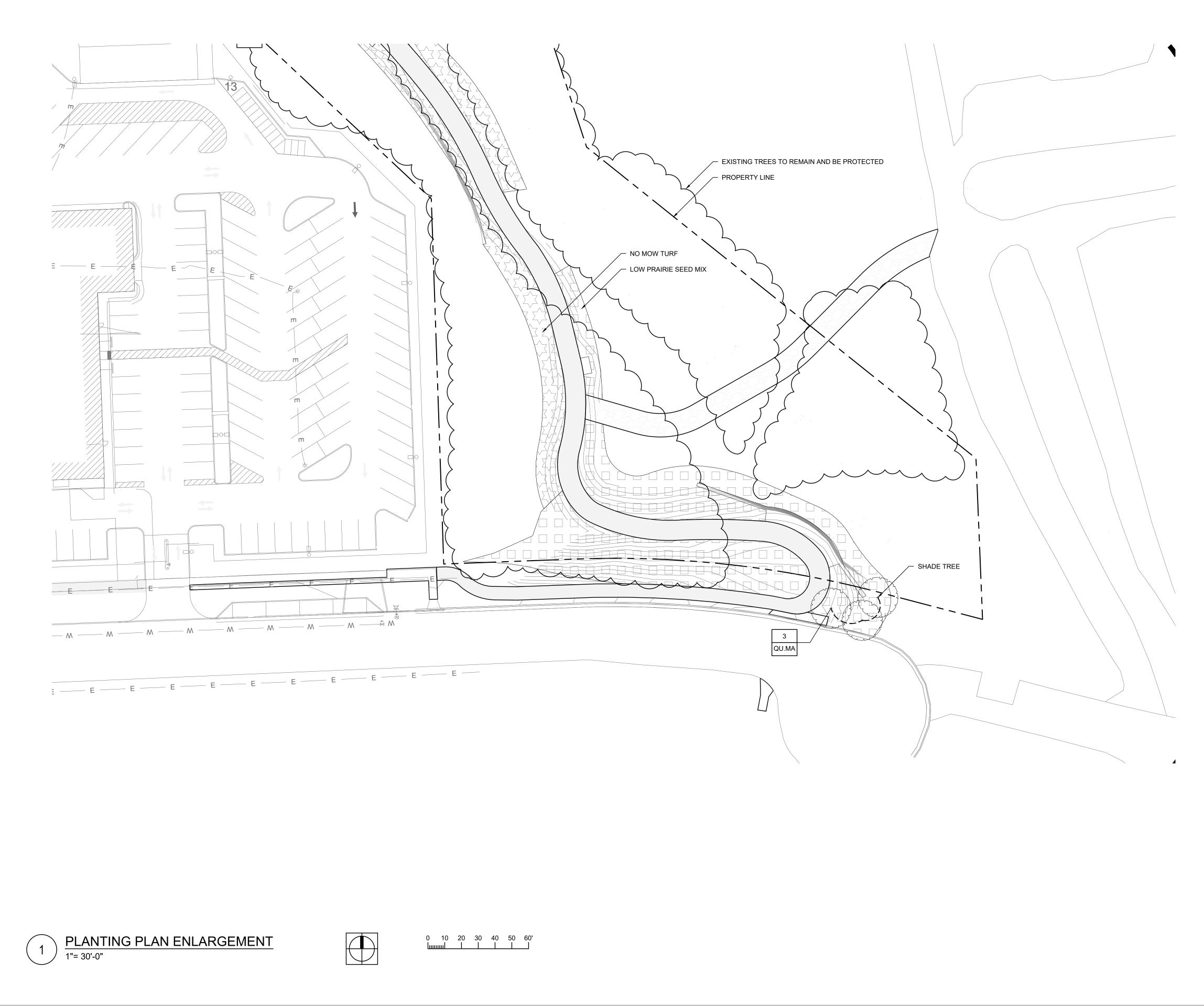
ORNAMENTAL TREE

EVERGREEN TREE

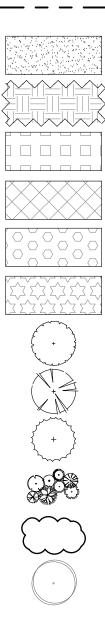
SHRUBS

EXISTING TREES TO REMAIN AND BE PROTECTED





<u>LEGEND</u>



PROPERTY LINE

LAWN SEED MIX

PERENNIALS AND ORNAMENTAL GRASSES

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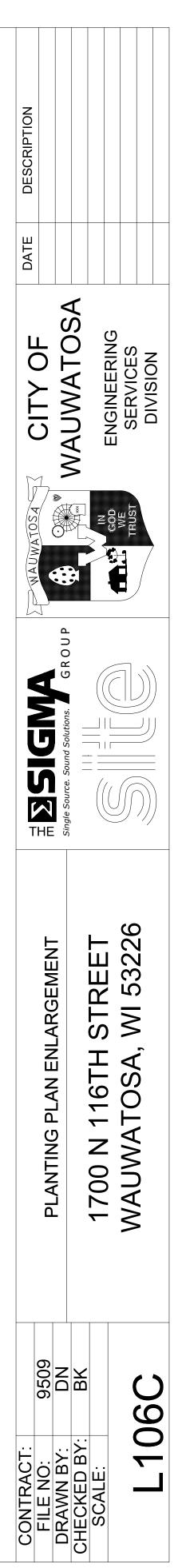
SHADE TREE

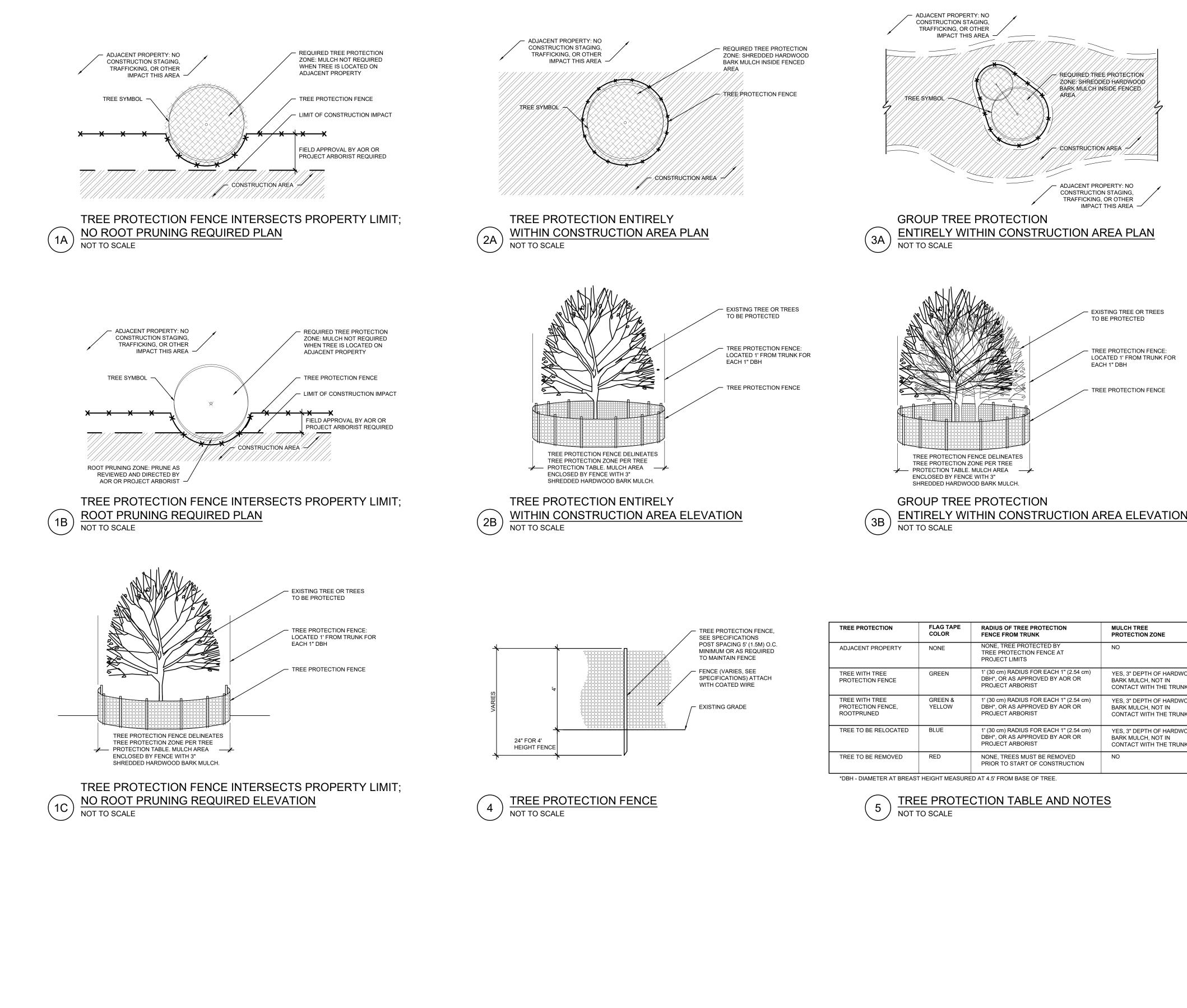
ORNAMENTAL TREE

EVERGREEN TREE

SHRUBS

EXISTING TREES TO REMAIN AND BE PROTECTED

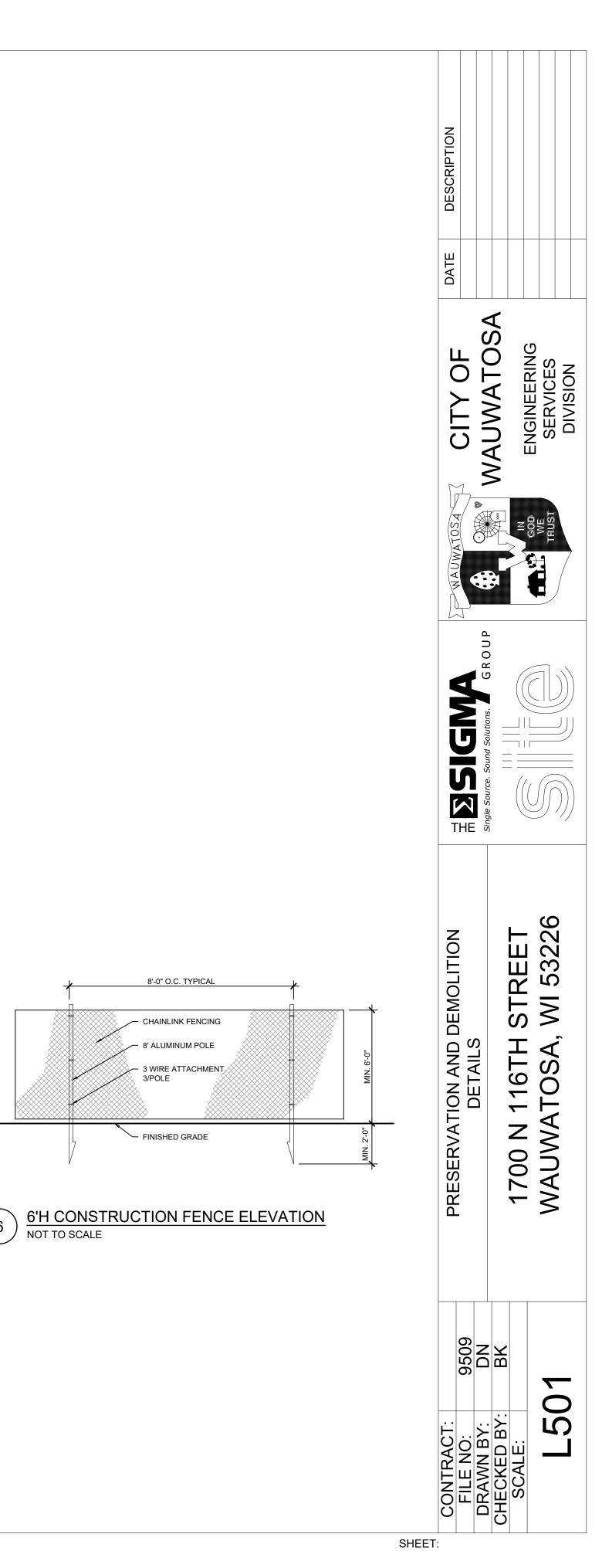


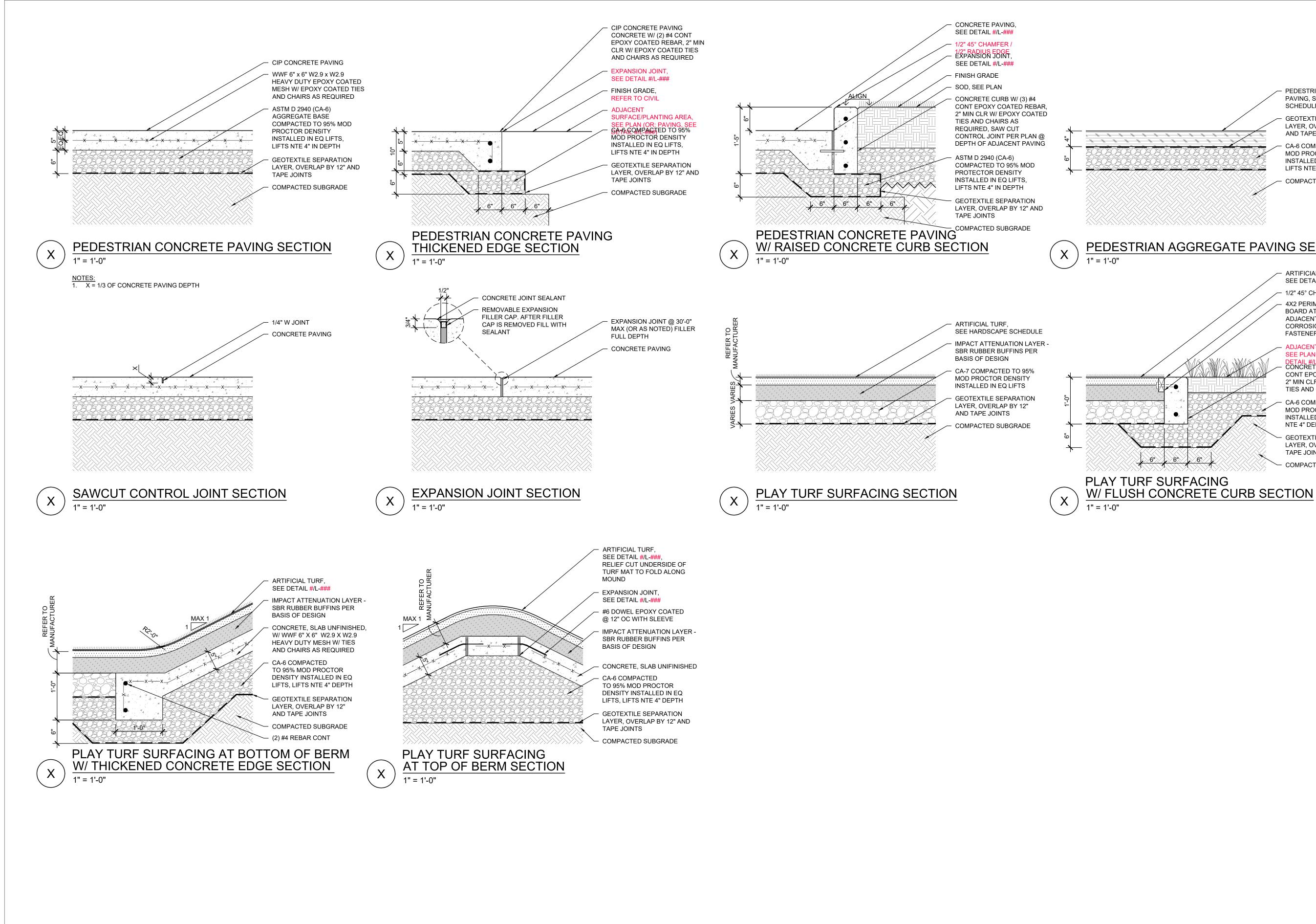


SEE SPECIFICATIONS POST SPACING 5' (1.5M) O.C MINIMUM OR AS REQUIRED TO MAINTAIN FENCE	;
FENCE (VARIES, SEE SPECIFICATIONS) ATTACH WITH COATED WIRE	

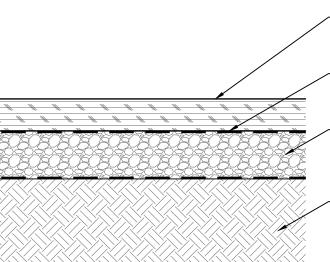
TREE PROTECTION	FLAG TAPE COLOR	RADIUS OF TREE PROTECTION FENCE FROM TRUNK	MULCH TREE PROTECTION ZONE
ADJACENT PROPERTY	NONE	NONE, TREE PROTECTED BY TREE PROTECTION FENCE AT PROJECT LIMITS	NO
TREE WITH TREE PROTECTION FENCE	GREEN	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH, NOT IN CONTACT WITH THE TRUNK
TREE WITH TREE PROTECTION FENCE, ROOTPRUNED	GREEN & YELLOW	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH, NOT IN CONTACT WITH THE TRUNK
TREE TO BE RELOCATED	BLUE	1' (30 cm) RADIUS FOR EACH 1" (2.54 cm) DBH*, OR AS APPROVED BY AOR OR PROJECT ARBORIST	YES, 3" DEPTH OF HARDWOOD BARK MULCH, NOT IN CONTACT WITH THE TRUNK
TREE TO BE REMOVED	RED	NONE, TREES MUST BE REMOVED PRIOR TO START OF CONSTRUCTION	NO

6





PLOT DATE:



- PEDESTRIAN AGGREGATE PAVING, SEE HARDSCAPE SCHEDULE

GEOTEXTILE SEPARATION LAYER, OVERLAP BY 12" AND TAPE JOINTS

CA-6 COMPACTED TO 95% MOD PROCTOR DENSITY INSTALLED IN EQ LIFTS, LIFTS NTE 4" IN DEPTH

COMPACTED SUBGRADE

PEDESTRIAN AGGREGATE PAVING SECTION

ARTIFICIAL TURF, SEE DETAIL #/L-###

1/2" 45° CHAMFER

- 4X2 PERIMETER NAILER BOARD ATTACHED TO ADJACENT CONCRETE WITH CORROSION RESISTENT FASTENERS @ 12" OC

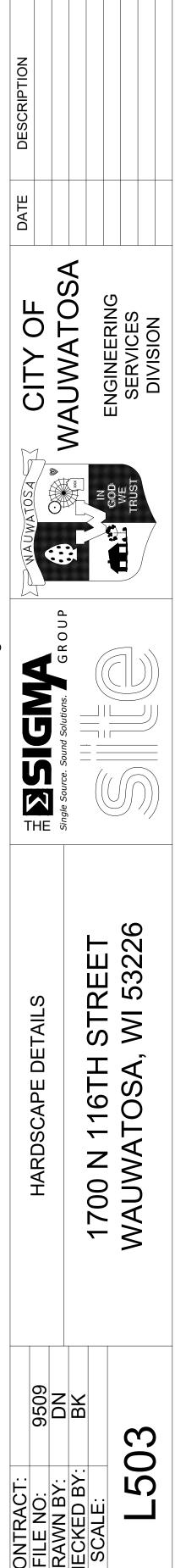
ADJACENT SURFACE, SEE PLAN (OR: PAVING, SEE CONCRETE CURB W/ (2) #4

CONT EPOXY COATED REBAR, 2" MIN CLR W/ EPOXY COATED TIES AND CHAIRS AS REQUIRED

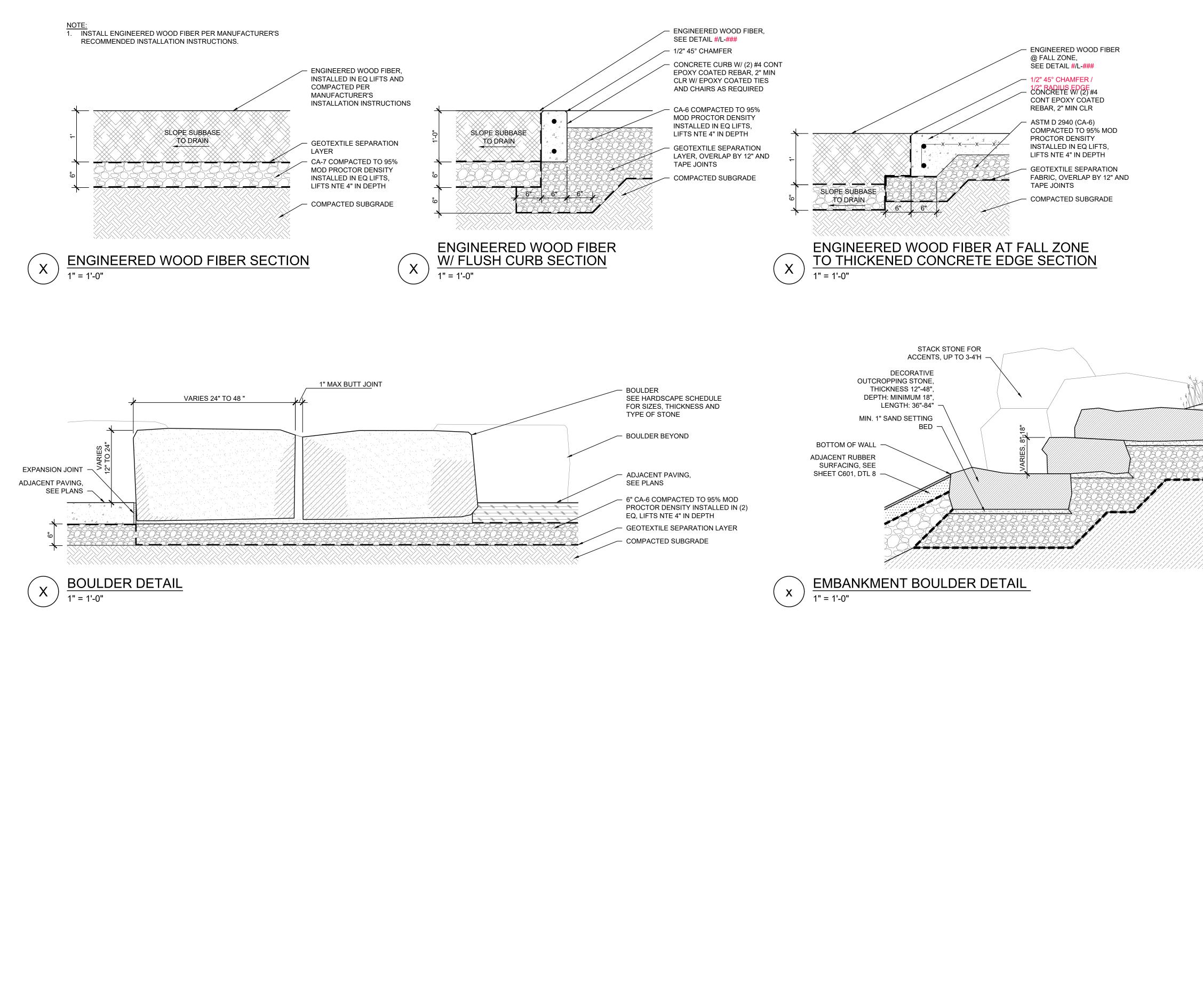
CA-6 COMPACTED TO 95% MOD PROCTOR DENSITY INSTALLED IN EQ LIFTS, LIFTS NTE 4" DEPTH

GEOTEXTILE SEPARATION LAYER, OVERLAP BY 12" AND TAPE JOINTS

COMPACTED SUBGRADE



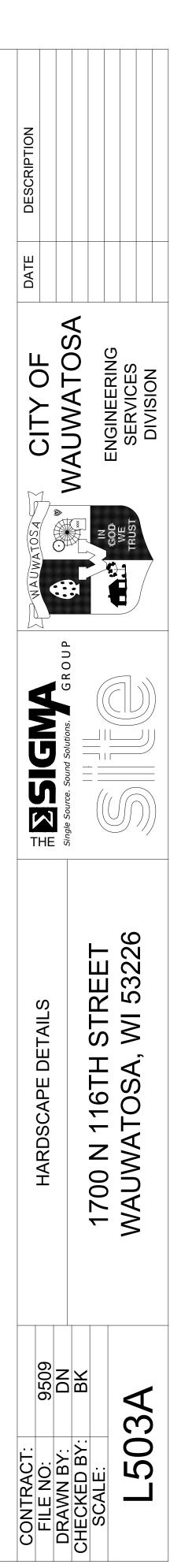
SHEET:

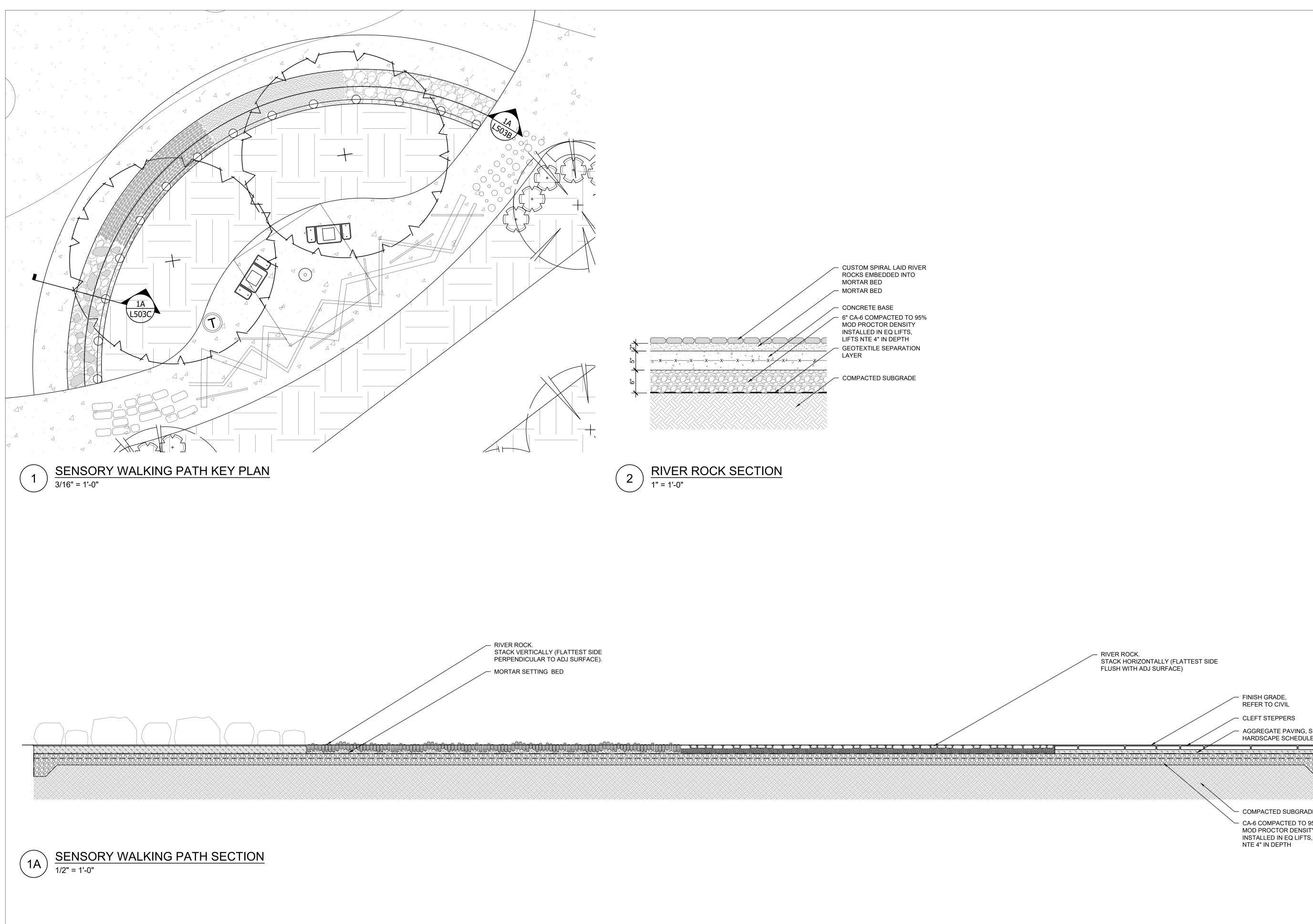


ADJACENT LANDSCAPING, SEE LANDSCAPE PLANS, FOR SLOPE, SEE GRANDING PLAN 9" TOPSOIL

- 8" CA-6 COMPACTED TO 95% MOD PROCTOR DENACSITY INSTALLED IN (2) EQ. LIFTS

GEOTEXTILE





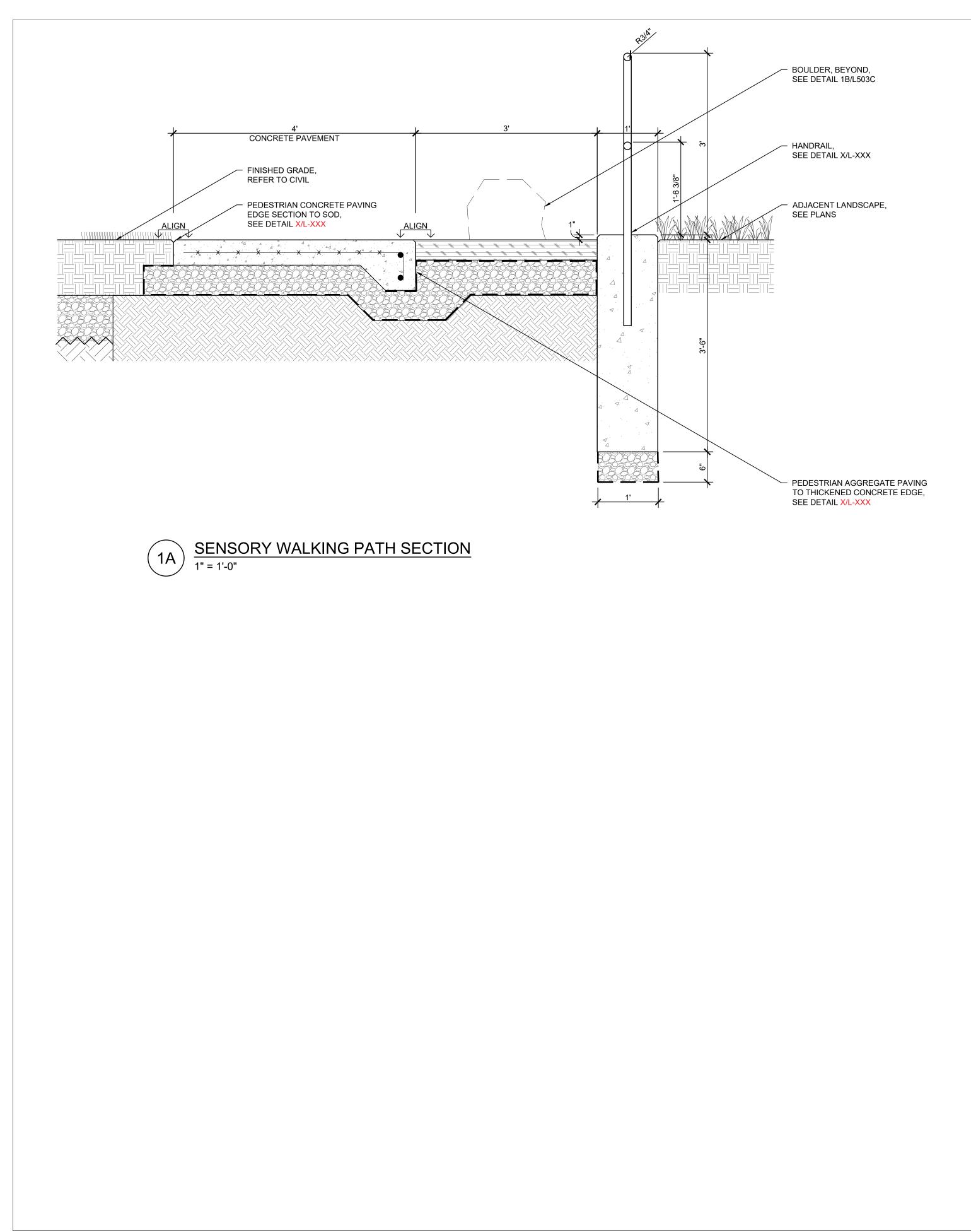
MORTAR BED - MORTAR BED CONCRETE BASE

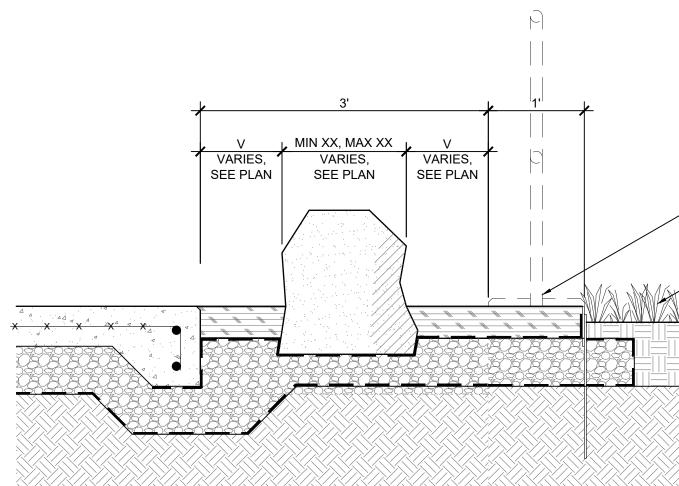
 — 6" CA-6 COMPACTED TO 95%
 MOD PROCTOR DENSITY
 INSTALLED IN EQ LIFTS,
 LIFTS NTE 4" IN DEPTH GEOTEXTILE SEPARATION

COMPACTED SUBGRADE



SHEET:





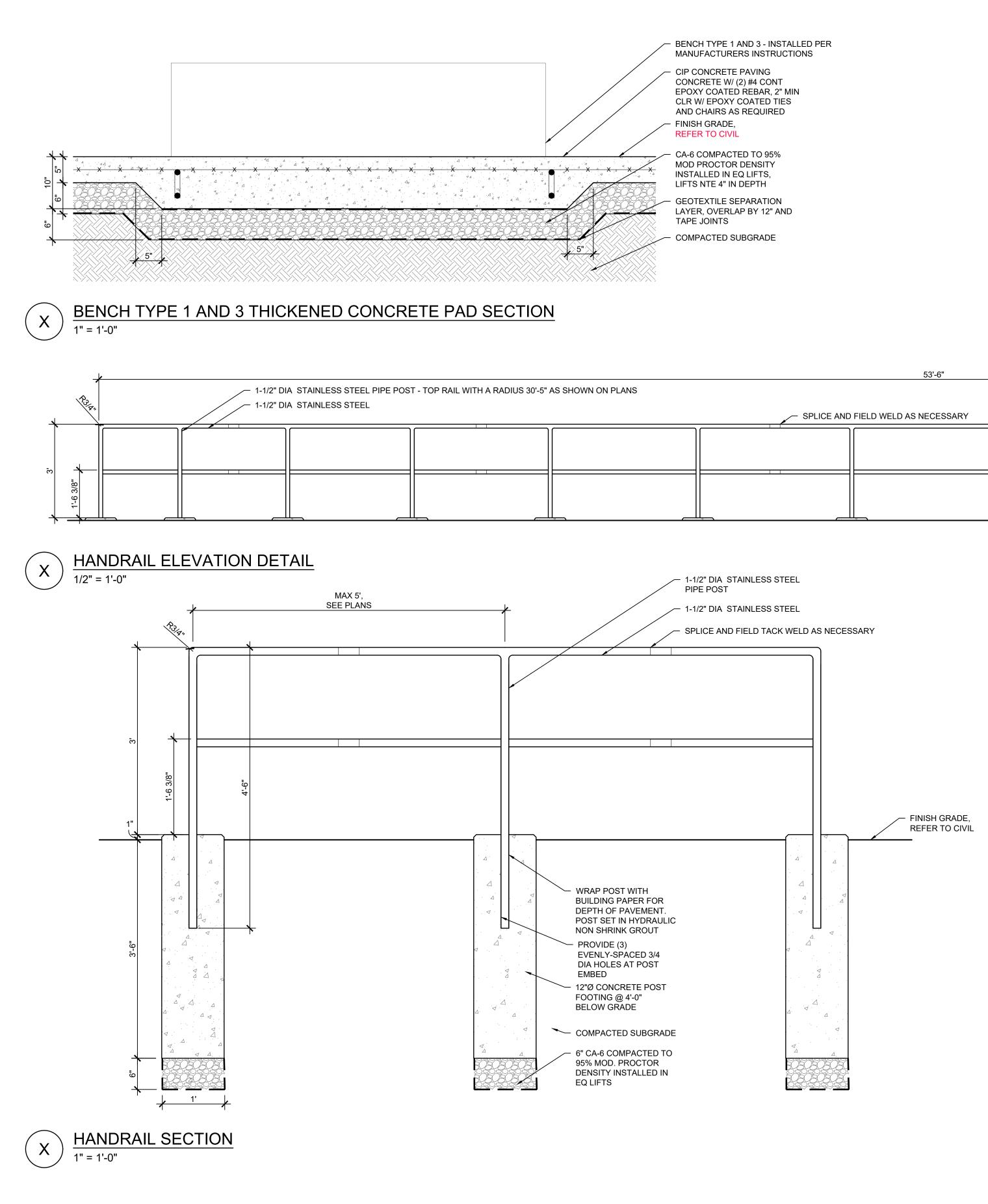


) BOULDER IN SENSORY WALKING PATH SECTION 1" = 1'-0" HANDRAIL, BEYOND,
 SEE DETAIL X/L-XXX

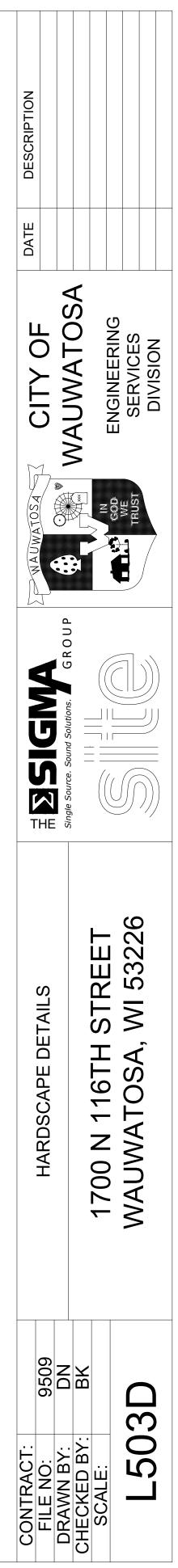
ADJACENT LANDSCAPE, SEE PLANS

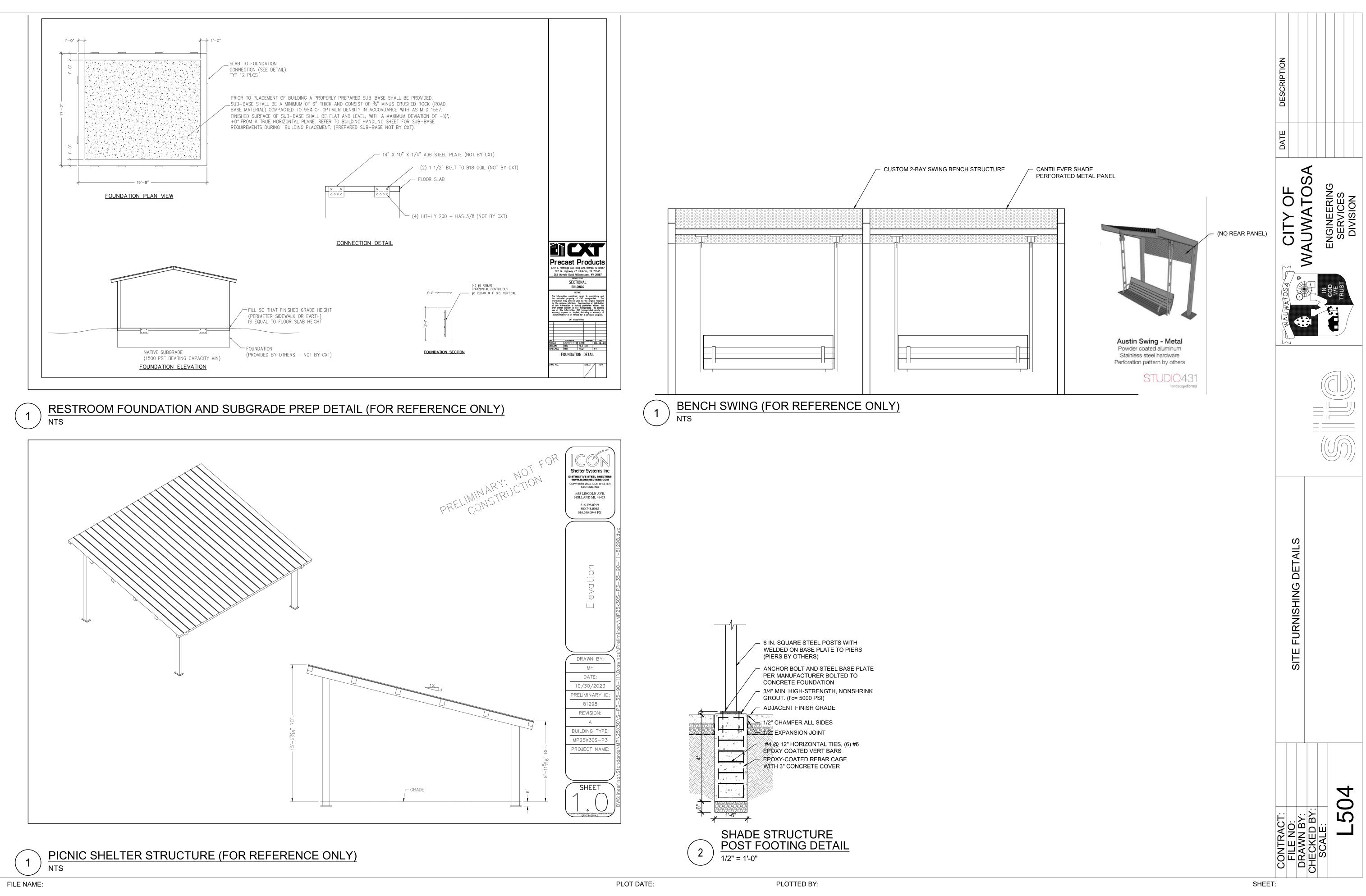
ĒT			
1			DATE DESCRIPTION
FILE NO: 9509	HARDSCAPE DETAILS		
		Single Source. Sound Solutions. GROUP	
CHECKED BY: BK			
	1700 N 116TH STREET		
-			
	WAUWATOSA WI 53226	SERVICES SERVICES	

SHEET:

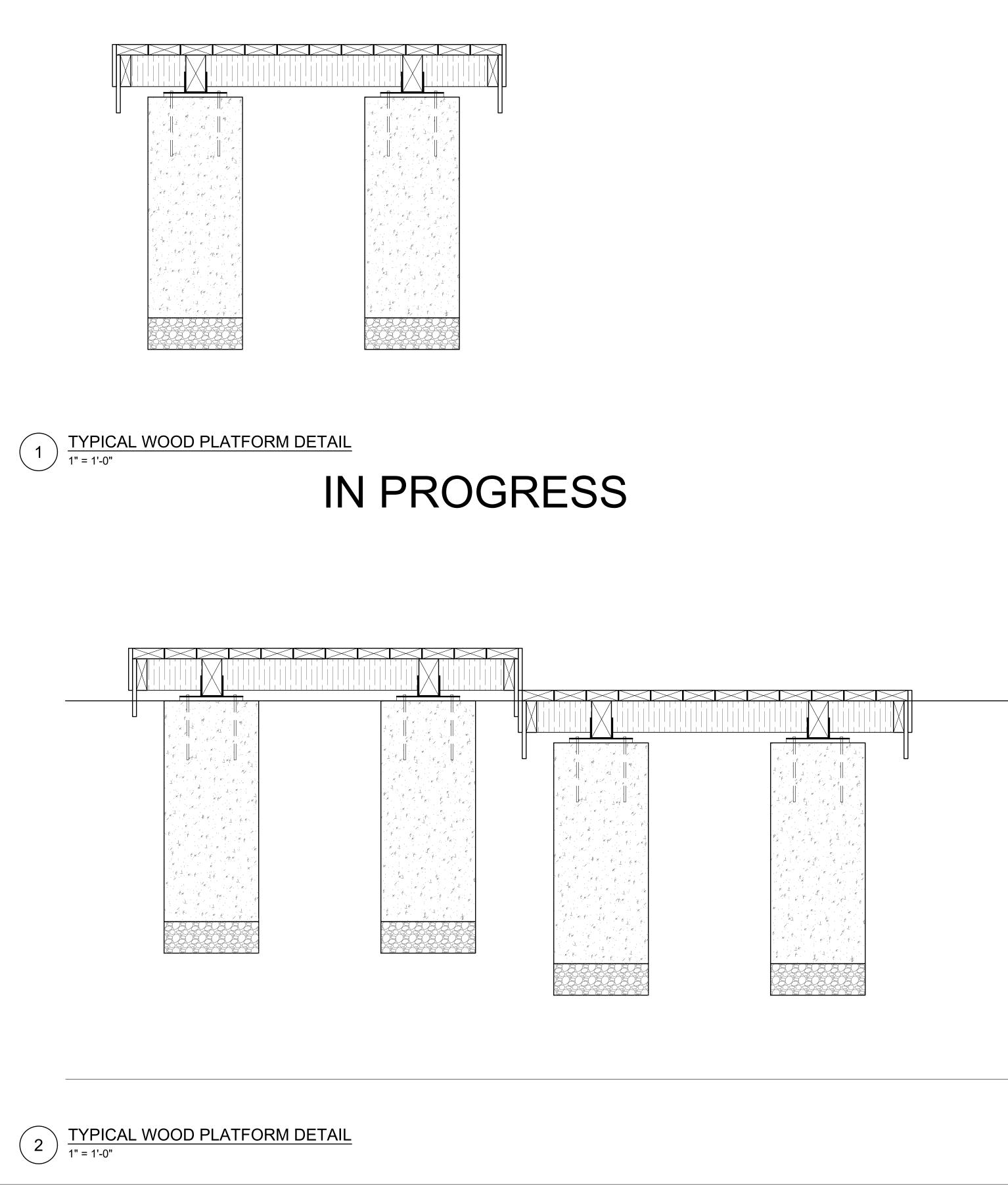


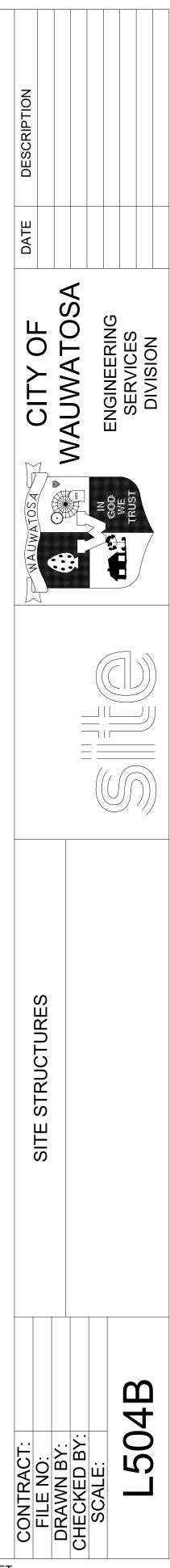
SPLICE AND	FIELD WELD AS NECESSARY			

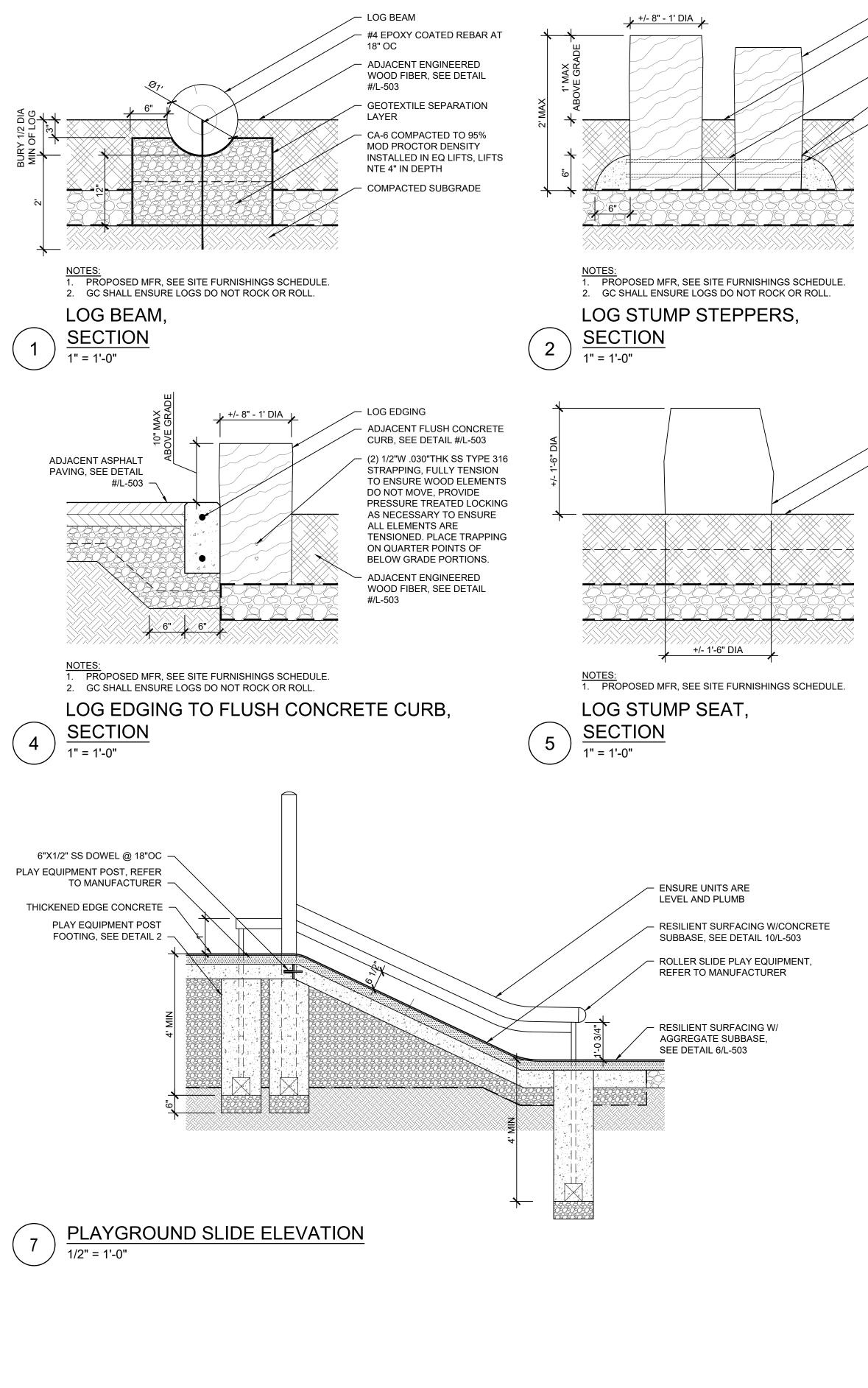


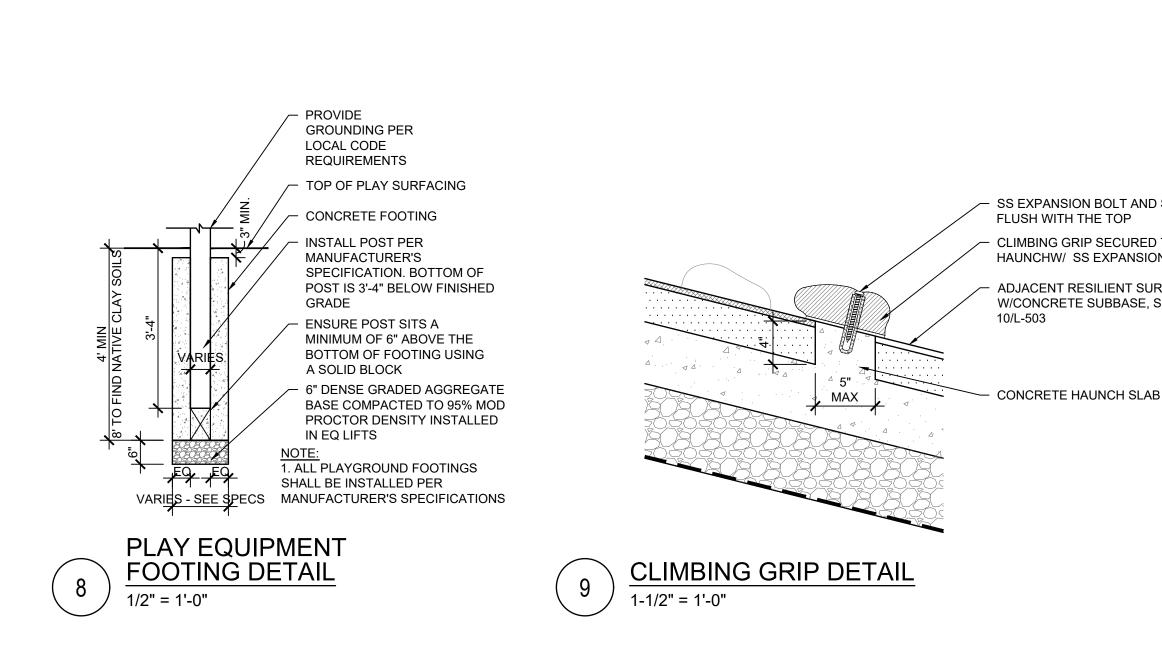












ADJACENT ENGINEERED WOOD FIBER, SEE DETAIL #/L-503

MOVABLE LOG STUMP SEAT

PRESSURE TREATED LOCKING AS NECESSARY TO ENSURE ALL ELEMENTS ARE **TENSIONED. PLACE TRAPPING** ON QUARTER POINTS OF BELOW GRADE PORTIONS.

' MAX /E GR

NOTES: 1. PROPOSED MFR, SEE SITE FURNISHINGS SCHEDULE.

2. GC SHALL ENSURE LOGS DO NOT ROCK OR ROLL.

- PRESSURE TREATED BLOCKING AS REQUIRED - (2) 1/2"W .030"THK SS TYPE 316 STRAPPING, FULLY TENSION TO ENSURE WOOD ELEMENTS DO NOT MOVE, PROVIDE PRESSURE TREATED LOCKING AS NECESSARY TO ENSURE ALL ELEMENTS ARE

- LOG STUMP STEPPER

- ADJACENT ENGINEERED

WOOD FIBER, SEE DETAIL

TENSIONED. PLACE TRAPPING

- LOG STUMP STEPPER ADJACENT ENGINEERED

WOOD FIBER, SEE DETAIL

#/L-503 PRESSURE TREATED

BLOCKING AS REQUIRED

CONCRETE SLUMP (2) 1/2"W .030"THK SS TYPE 316 STRAPPING, FULLY TENSION TO ENSURE WOOD ELEMENTS DO NOT MOVE, PROVIDE

3

6

1" = 1'-0"

1" = 1'-0"

+/- 8" - 1' DIA

- CONCRETE SLUMP

#/L-503

ON QUARTER POINTS OF BELOW GRADE PORTIONS.

(<//// 12' DIAMETER RING

WILLOW HUT SECTION

LOG STUMP STEPPERS, **SLOPED SECTION** THE

SS EXPANSION BOLT AND SOCKET, FLUSH WITH THE TOP CLIMBING GRIP SECURED TO THE CONCRETE HAUNCHW/ SS EXPANSION BOLT AND SOCKET

ADJACENT RESILIENT SURFACING W/CONCRETE SUBBASE, SEE DETAIL

WEAVE AND THEN TIE 10' LONG WILLOW RODS TOGETHER WITH TWINE UNTIL GROWN TOGETHER

3" ENGINEERED WOOD FIBER LAYER RING AROUND BASE OF WILLOW (DO NOT PLACE MULCH IN CONTACT WITH WILLOW)

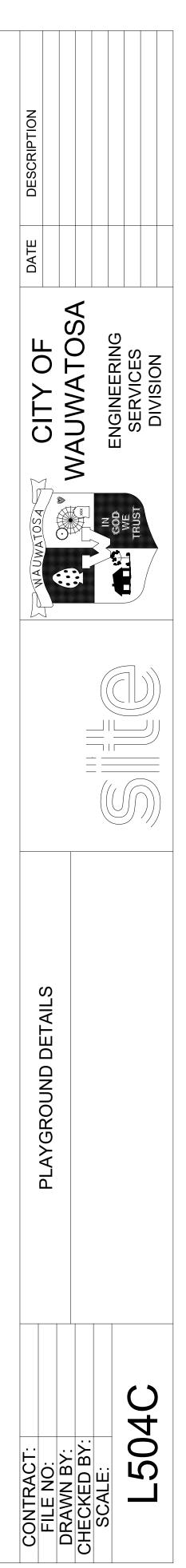
PLANT WILLOW RODS 8-12" BELOW GRADE, AT 8-12" APART

PLANT WILLOW RODS BETWEEN OCTOBER AND APRIL.

WILLOW RODS SHOULD BE PRUNED TWICE A YEAR TO KEEP ITS SHAPE. WATER REGULARLY FOR THE FIRST GROWING SEASON UNTIL

ESTABLISHED; WILLOWS PREFER DAMP SOIL. 4. TRIM ALL BRANCHES PROTRUDING AT EYE LEVEL.

5. PLANT WILLOW RODS AS SOON AS POSSIBLE FROM TIME OF CUTTING. COORDINATE SCHEDULE & INSTALLATION WITH SUPPLIER.















1

) PLAYGROUND RENDERING



PLAYGROUND RENDERING



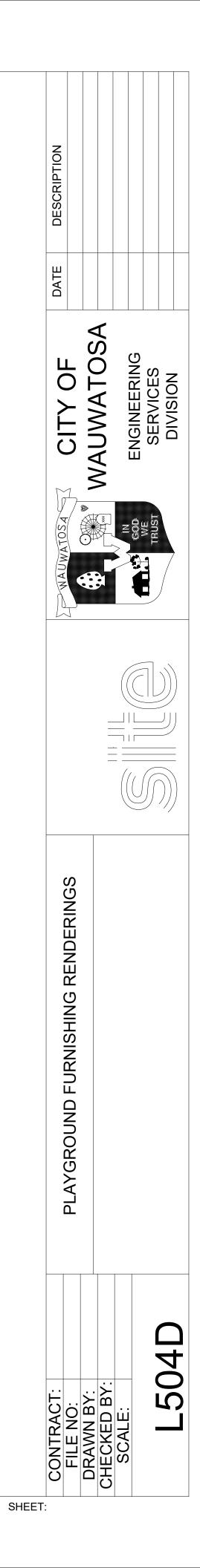


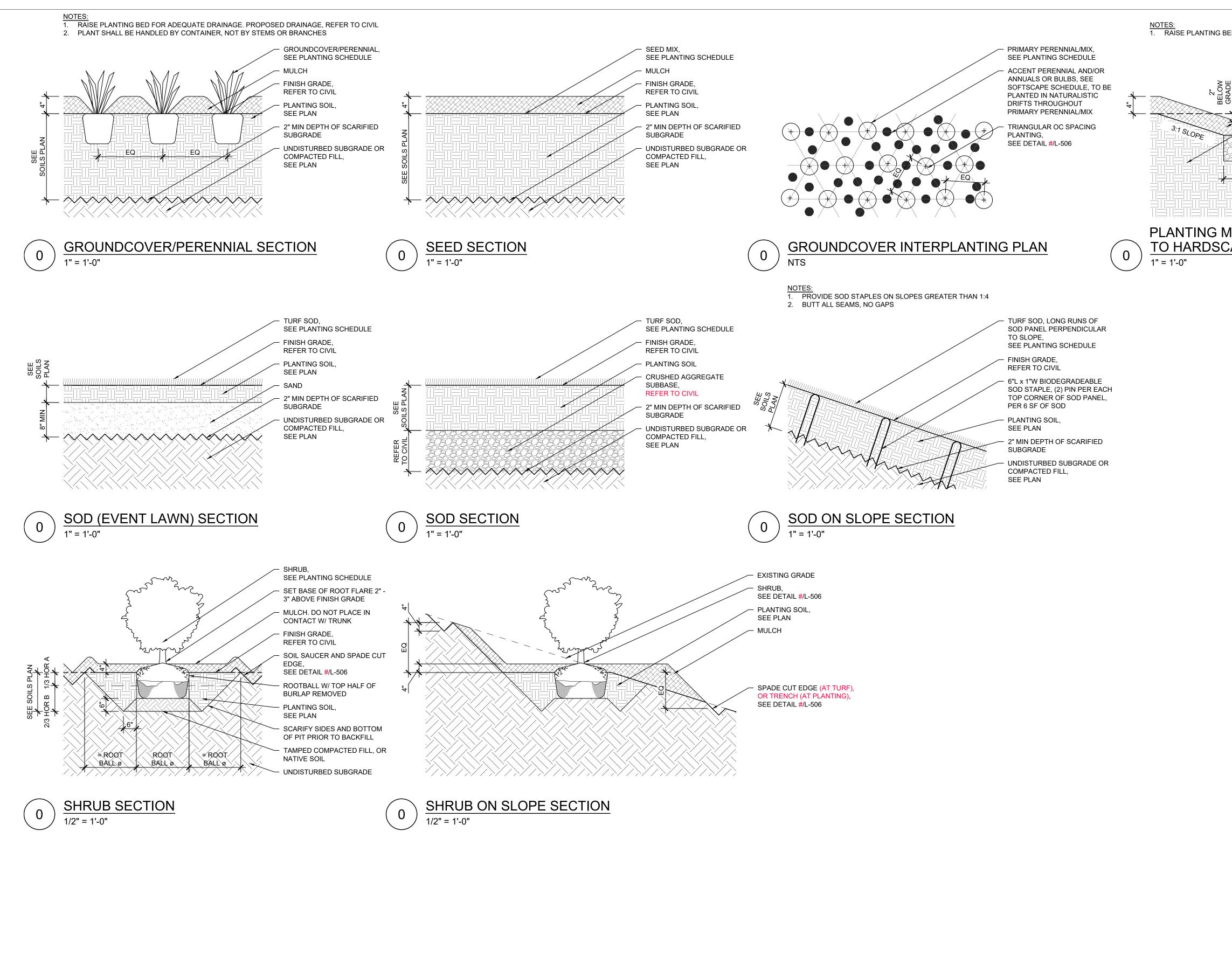
) PLAYGROUND RENDERING NTS 3

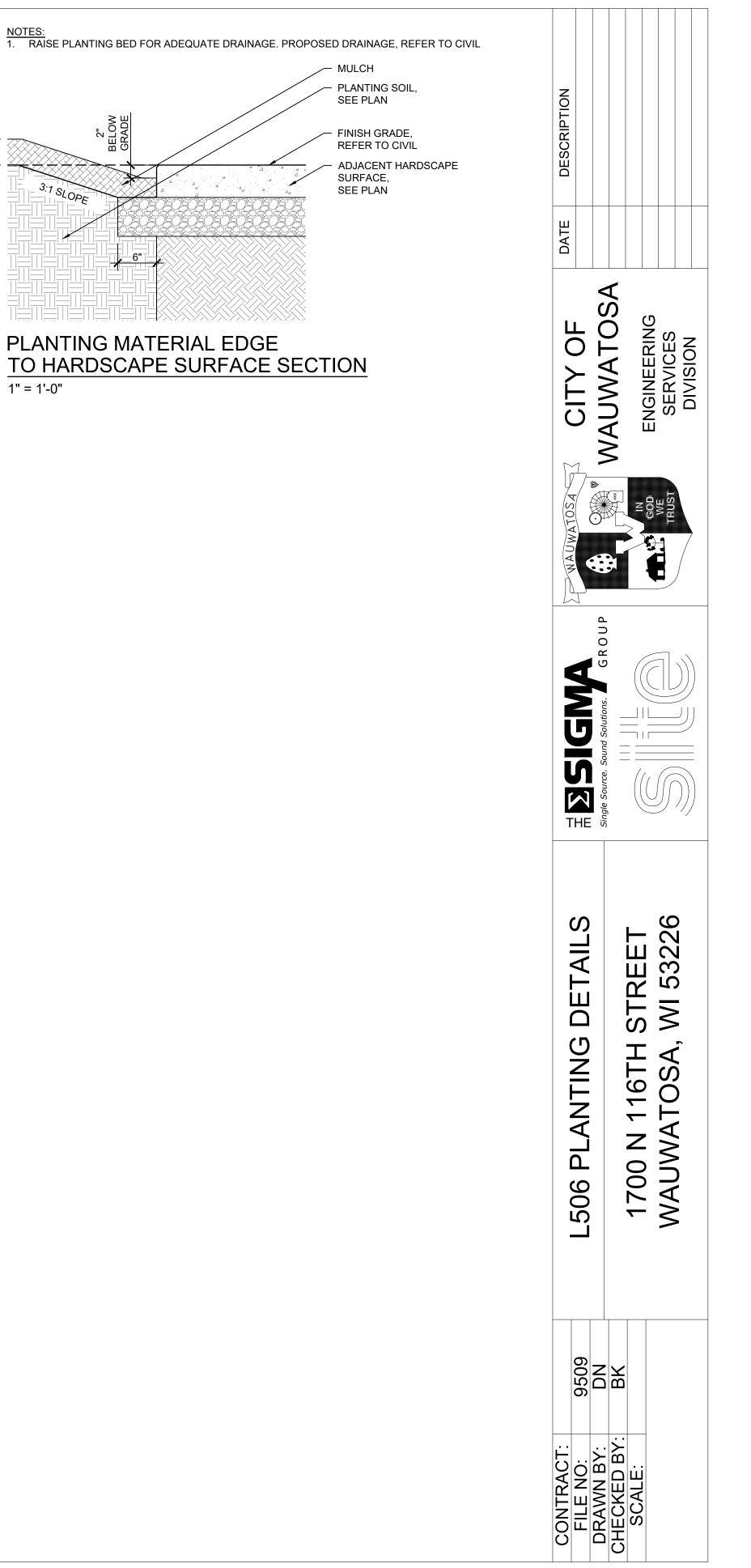




PLAYGROUND RENDERING





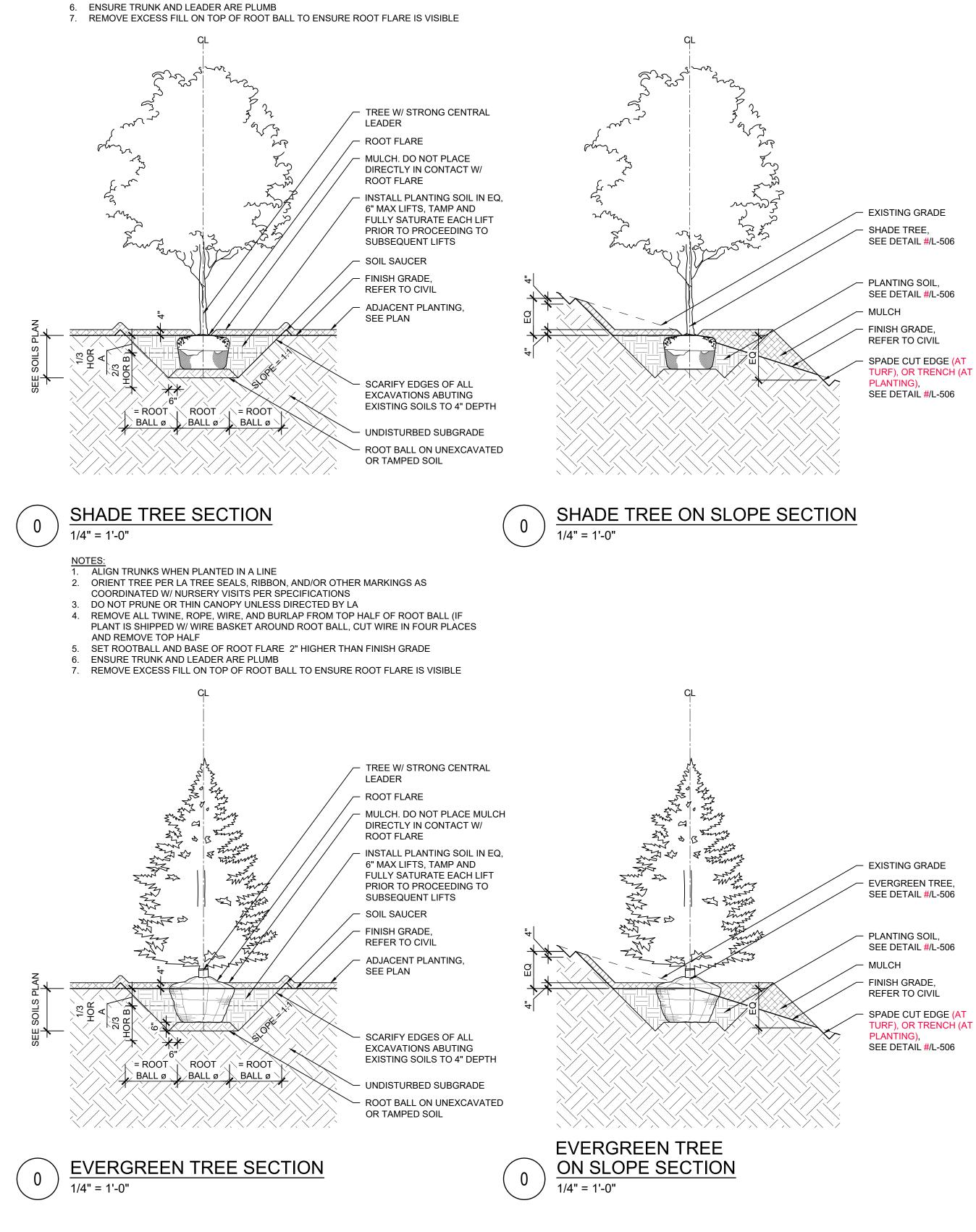


6"

SHEET:



- 1. ALIGN TRUNKS WHEN PLANTED IN A LINE
- 2. ORIENT TREE PER LA TREE SEALS, RIBBON, AND/OR OTHER MARKINGS AS COORDINATED W/ NURSERY VISITS PER SPECIFICATIONS
- 3. DO NOT PRUNE OR THIN CANOPY UNLESS DIRECTED BY LA
- 4. REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL (IF PLANT IS SHIPPED W/ WIRE BASKET AROUND ROOT BALL, CUT WIRE IN FOUR PLACES AND REMOVE TOP HALF
- 5. SET ROOTBALL AND BASE OF ROOT FLARE 2" HIGHER THAN FINISH GRADE



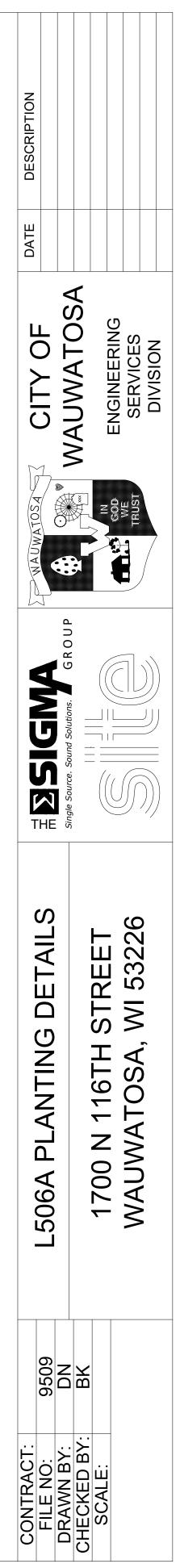
EVERGREEN TREE, SEE DETAIL #/L-506

- PLANTING SOIL, SEE DETAIL #/L-506 - FINISH GRADE,

SPADE CUT EDGE (AT TURF), OR TRENCH (AT SEE DETAIL #/L-506

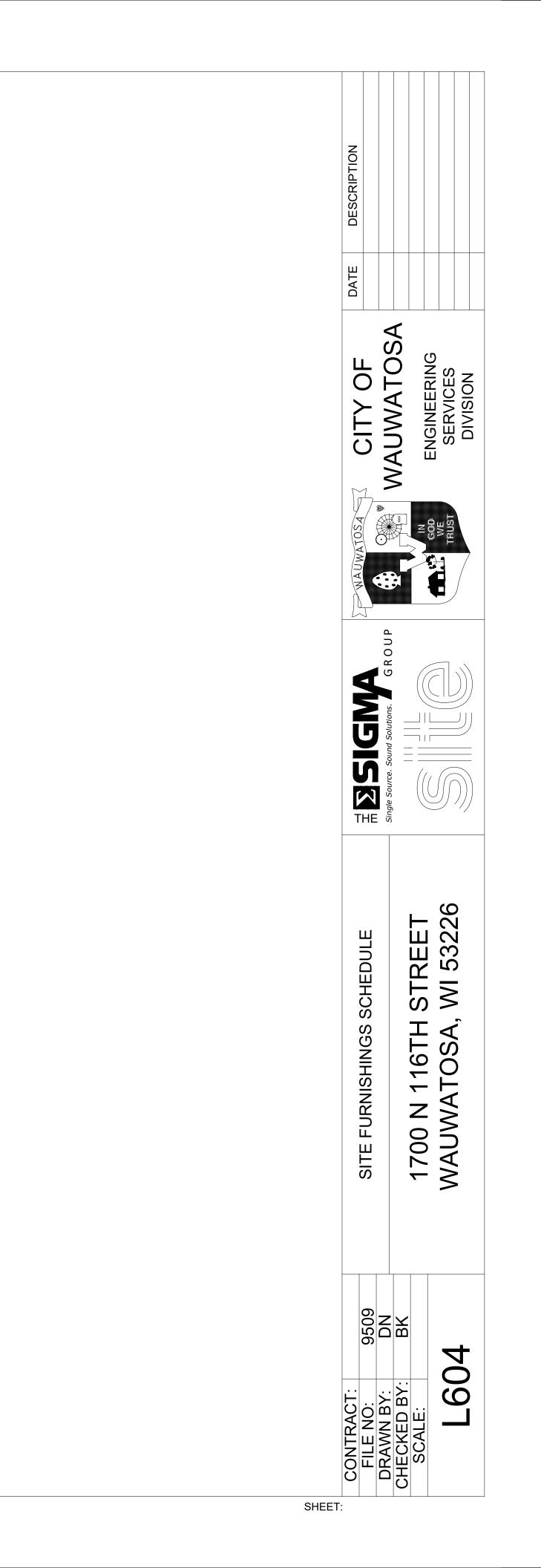
PLOT DATE:

PLOTTED BY:

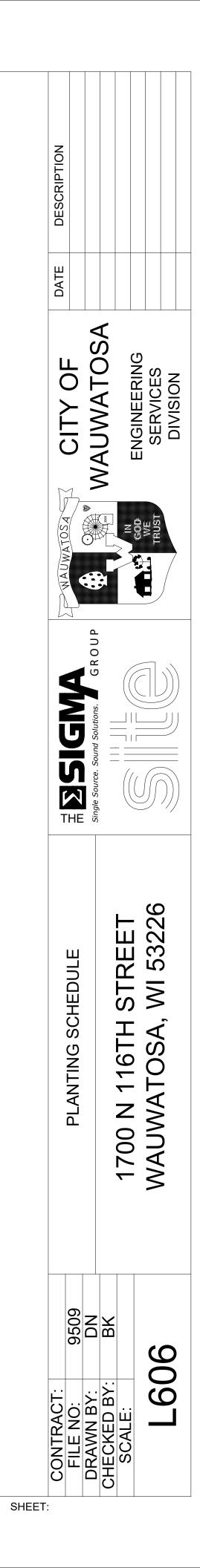


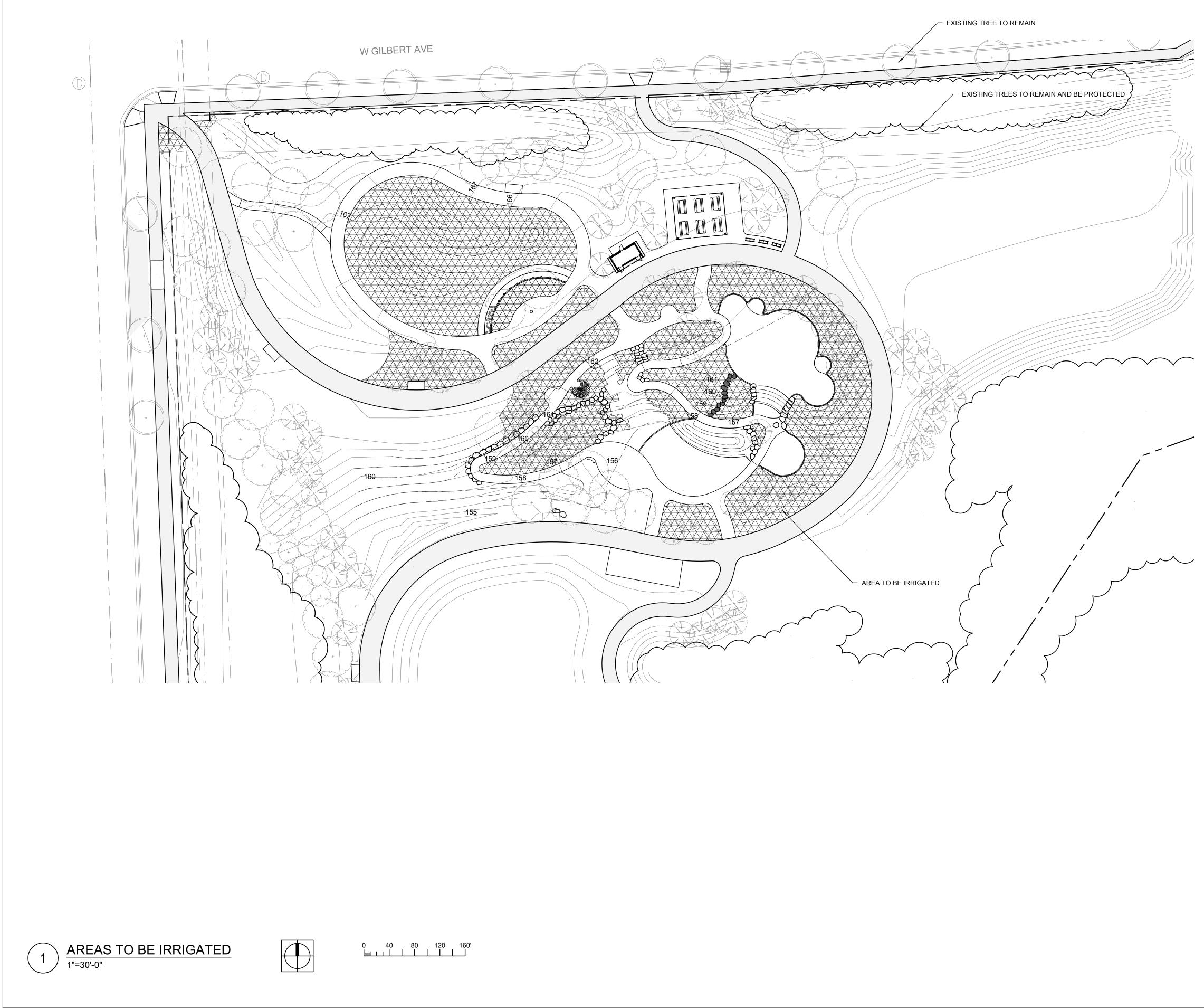
		SOURCE	MATERIAL PROVIDE MOCKUP FOR EVERY TYPE	SZE COLOR	FINISH NOTES	SHEET	DETAIL SPECIFICA								
	RETE PAVING MOCKUP		PER SCHEDULE	DETAIL FER SCREDUCE F FULL PROFILE PER SENSORY WALK F	CONDITION PER PLANS/DETAILS		x xx xx x x xx xx x								
	RY WALK TYPE 2 MOCKI		PER SCHEDULE		PER SCHEDULE CONDITION PER PLANS/DETAILS PER SCHEDULE PROVIDE EXAMPLES OF EACH UNK CONDITION PER PLANS/DETAILS		x xx xx x								Z
PM-01 PAI	INTED WALK MOCKUP (3	3' x 10') -	PER SCHEDULE		PER SCHEDULE PROVIDE EXAMPLES OF EACH UNK CONDITION PER PLANS/DETAILS		x xx xx x	x							
RUCTURES AND ASS	FURNISH/		1												
CODE	INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
BD-1	OF-CI	RESTROOM BUILDING	[Owner Furnished] 6707 E. Flamingo Ave. Bldg 300 Nampa, ID 83687	Precast concrete flush toilet buidling	Denali CXT Standard Building	19'-8 x 10'-3" x 13'-0" H	N/A	N/A	N/A	N/A	[Owner Furnished} REQUIRED	N/A	N/A	N/A	
SSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	FOUNDATION	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ST-01	OF-CI	PICNIC SHELTER	[Owner Furnished] Gerber Leisure Products, Inc. Contact: Meghan Barrett p. 608-514-6323 meghan@gerberleiure.com	Steel Frame Shelter	MP25x30S-P3	25' x 30' x 15'-2.3" H	N/A	N/A	N/A	N/A	[Owner Furnished} REQUIRED	N/A	N/A	N/A	OF TOSA
SEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ST-02	OF-CI	BENCH SWINGS	[Owner Furnished] Landscape Forms Studio 431 7800 E. Michigan Ave Kalamazoo, MI 49048 Contact: Jennifer Woods P. 800.430.6206 x 1336 jenniferw@landscapeforms.com	Steel Frame	2-Bay Austin Cantilever Structure with Perforated Metal Roof	Per Manufacturer 19' L	N/A	N/A	N/A	N/A	N/A	N/A	L-X	X	MAUW CIT
SSEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SOF SOF
LLS						- to o to t						<u> </u>			
CODE REFER TO CIVIL	CF-CI	COMPONENT RETAINING WALL	SOURCE REFER TO CIVIL	MATERIAL MODULAR BLOCK MSE RETAINING	MODEL REFER TO CIVIL	SIZE SEE DETAIL(S)	COLOR REFER TO CIVIL	FINISH REFER TO CIVIL	NOTES REFER TO CIVIL	SAMPLE REFER TO CIVIL	SHOP DRAWING REQUIRED	MOCKUP REFER TO CIVIL	SHEET REFER TO CIVIL	DETAIL REFER TO CIVIL	
RBS				WALLS											
CODE CB-01	CF-CI	COMPONENT RAISED CONCRETE CURB	SOURCE N/A	MATERIAL CIP Concrete Barrier Curb w/ Rebar Reinforcement	MODEL N/A	SIZE SEE DETAIL(S)	COLOR N/A	FINISH Light Broom	NOTES Caulked Snap Cap Expansion Joints w/ Saw- cut Control Joints	SAMPLE N/A	SHOP DRAWING	MOCKUP N/A	SHEET L503	DETAIL X	
CB-02	CF-CI	FLUSH CONCRETE CURB	N/A	CIP Concrete Flush Curb w/ Rebar	N/A	SEE DETAIL(S)	N/A	Light Broom	Caulked Snap Cap Expansion Joints w/ Saw-	N/A	N/A	N/A	L503	x	R OL
ING				Reinforcement					cut Control Joints						
CODE PA-01	CF-CI	COMPONENT CONCRETE PAVEMENT	SOURCE N/A	MATERIAL CIP Concrete w/ Steel Mesh Reinforcemen	MODEL N/A	SIZE 5" THK	COLOR N/A	FINISH Light Broom	NOTES Caulked Snap Cap Expansion Joints w/ Saw- cut Control Joints	SAMPLE N/A	SHOP DRAWING	MOCKUP N/A	SHEET L503	DETAIL 1	
SEMBLY COMPONENT	T CF-CI	THICKENED EDGE CONCRETE PAVING	N/A	N/A	N/A	v	N/A	N/A	N/A	N/A	N/A	N/A	L503	v	
FOR ITEM ABOVE			N/A Kafka Granite			~		NV/A							
PA-02	CF-CI	STABILIZED AGGREGATE PAVING	550 East Hwy 153 Mosinee, WI 54455	Stabilized Stone Aggregate Paving	x	3" THK	N/A	N/A	N/A	REQUIRED	N/A	N/A	L503	x	THE Source. Source Sour
PA-03	OF-ON	PLAY TURF SURFACING	Forever Lawn 8007 Beeson St Louisville, OH 44641 p. 866.992.7879	Protective Play Surface, Synthetic Turf	Playground Grass	X	×	N/A	x	REQUIRED	REQUIRED	×	L503	x	
SEMBLY COMPONENT FOR ITEM ABOVE	CF-CI	SITE PREP: GRADING, SUBBASE, AGGREGATE CONCRETE BASE	N/A	N/A	N/A	N/A	N/A	N/A	x	N/A	N/A	N/A	N/A	N/A	
PA-04	CF-CI	ENGINEERED WOOD FIBER	x	Protective Play Surface, Engineered Wood Fiber	x E	12" THK	N/A	N/A	x	N/A	N/A	N/A	L503A	1	
SW-01	CF-CI	SENSORY WALK TYPE 1	N/A	x	X	12" THK	x	N/A	'Advanced' Sensory Walk.	REQUIRED	REQUIRED	REQUIRED	L-X	х	
SW-02	CF-CI	SENSORY WALK TYPE 2	N/A	x	X	12" THK	x	N/A	'Intermediate' Sensory Walk.	REQUIRED	REQUIRED	REQUIRED	L-X	X	
PM-01	CF-CI	PAINTED WALK	x	Pavement Markings	StreetBond SB 150AL with primer	SEE DETAIL(S)	SW 6939 - Turquish SW 6921 - Electric Lime SW 6839 Kimono Violet SW 6926 - Lucky Green	N/A	'Beginner' Sensory Walk.	N/A	REQUIRED	REQUIRED	L-X	x	
REFER TO CIVIL	CF-CI	ADA TACTILE WARNING TILES	REFER TO CIVIL	Tactile Warning Surfacing	REFER TO CIVIL	2' x 5'	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	
REFER TO CIVIL	CF-CI	POROUS ASPHALTIC PAVEMENT	REFER TO CIVIL	POROUS ASPHALTIC PAVEMENT	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	APE S APE S
KING						0175			Note				0		
CODE DK-01	CF-CI	COMPONENT NATURE PLAY WOOD PLATFORM	SOURCE N/A	MATERIAL Wood Decking and Framing, Robinia	MODEL N/A	SIZE SEE DETAIL(S)	COLOR N/A	FINISH N/A	NOTES N/A	SAMPLE N/A	SHOP DRAWING REQUIRED	MOCKUP N/A	SHEET L504A	DETAIL X	HARDS A
D EDGING CODE	·····	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	МОСКИР	SHEET	DETAIL	
WE-01	CF-CI	WOOD LOG EDGE TYPE 1	N/A	Robina Wood Log	N/A	SIZE	N/A	N/A	Vertical Log	N/A	REQUIRED	N/A	L504A	X	1 *
WE-02	CF-CI	WOOD LOG EDGE TYPE 2	N/A	Robina Wood Log	N/A	SEE DETAIL(S)	N/A	N/A	Hortizontal Log	N/A	REQUIRED	N/A	L504A	x	
CODE]	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
REFER TO CIVIL	CF-CI	8' HT CHAIN LINK	N/A	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	Black	Yinyl Coating	N/A	N/A	N/A	N/A	REFER TO CIVIL	REFER TO CIVIL	
S CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	
REFER TO CIVIL	CF-CI	ACCESS GATE (SWING)	N/A	REFER TO CIVIL	REFER TO CIVIL	REFER TO CIVIL	Black	Yinyl Coating	N/A	N/A	N/A	N/A	REFER TO CIVIL	REFER TO CIVIL	ດ
RAILS CODE		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL	BK BK
HR-01	CF-CI	SENSORY WALK HANDRAIL	N/A	Stainless Steel Pipe Handrail	N/A	1.5" OD PIPE	N/A	Х	N/A	N/A	Required	N/A	L-X	X	
EMBLY COMPONENT FOR ITEM ABOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CONTRACT: FILE NO: DRAWN BY: CHECKED BY:
RAL STONE CODE					MODEL	OIZE		EINIIOU	NOTES			MOOKUP	CULLT		
a a bi the			SOURCE OWNER PROVIDED	MATERIAL N/A	MODEL N/A	SIZE N/A	COLOR N/A	FINISH N/A	NOTES Coordinate and install owner provided boulders	SAMPLE N/A	SHOP DRAWING	MOCKUP N/A	SHEET L503A	DETAIL N/A	
NS-01	OF-CI	BOULDERS					1								
	OF-CI OF-CI	STONE STEPPERS	OWNER PROVIDED	N/A	N/A	N/A		N/A	Coordinate and install owner provided stone steppers	N/A	N/A	N/A	L503A	N/A	

LAY EQU		r													
CODE	LINIT	FURNISH/ INSTALL SCOPE	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
PG-01	LS	OF-CI	PLAYGROUND EQUIPMENT	[Owner Furnished] Gerber Leisure Products, Inc. Contact Meghan Barrett p. 608-514-6323 meghan@gerberleiure.com	N/A	Landscape Structures, Inc. Freestanding System Project ID: 23091802	See LSI Drawing #23092802-02	N/A	N/A	Owner Furnished, Contractor Installed	N/A	N/A	N/A	L504C	(for reference only)
ASSEM COMPONE ITEM AE	NT FOR BOVE	CF-CI	CONCRETE FOOTINGS	N/A	Concrete Footing	N/A	Per Manufacturer	N/A	N/A	N/A	N/A	N/A	N/A	L504B	3
CODE	UNIT		COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
REFER TO CIVIL	EA	CF-CI	GENERAL SIGNAGE	N/A	ALUMINUM PANEL SIGN, PAINT AND VINYL GRAPHICS,	N/A	N/A	N/A	N/A	PROVIDE AND INSTALL SIGNS WHERE SHOWN ON PLANS INCLUDING ADA. FURNISH AND INSTALL POSTS, SIGNS, FOOTINGS, INCLUDING HARDWARE	N/A	REQUIRED	N/A	REFE	RTOCIVIL
MS-1	EA		ENTRY SIGN	x	PRECAST CONCRETE WALL WITH CUSTOM METAL FABIRCATED SIGNAGE	N/A	16' L x 1'-1" W x 4' H	N/A	N/A	X	REQUIRED	REQUIRED	N/A	L503D L503E	ALL
ASSEM COMPONE ITEM AE	NT FOR BOVE	CF-CI	CONCRETE FOOTING	N/A	Concrete Footing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503E	1
CODE		CF-CI CF-CI	COMPONENT	SOURCE	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
BR-01	EA	OF-OI	BIKE RACKS	[Owner Furnished] Madrax Graber Manufacturing, Inc. Waunakee, WI 53597	Powder Coated Steel	3 Hoop on Rail U190-6-P	21" W x 36" H x 66" L	Patriot Blue	Powder Coat	Surface Mount	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
URNITUR				1					1				MOOKUP		
CODE	UNIT		COMPONENT	SOURCE [Owner Furnished]	MATERIAL	MODEL	SIZE	COLOR	FINISH	NOTES	SAMPLE	SHOP DRAWING	MOCKUP	SHEET	DETAIL
BN-01	EA	OF-CI	BENCH TYPE 1	Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF5117	48" L, 18" W, 18" HT,	N/A	N/A	Surface Mount	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
BN-02	EA	OF-OI	BENCH TYPE 2	[Owner Furnished] Thomas Steele Division of Graber Manufacturing, Inc. 1080 Uniek Drive, Waunakee, WI 53597 P 800.241.2505, F 608.849.1081	Steel Frame Recylced Plastic Slats	6 Ft Walden Circle Arm Bench	76" L x 31" H x 24" W	Walnut (Slats) Storm Metallic (Frame)) Powder Coated	Surface Mount	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
BN-03	EA	OF-CI	BENCH TYPE 3	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF5116	Arc: Total Length 73-1/2"; 18" Seat Width 18" HT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-01	EA	OF-OI	PICNIC TABLE- TYPE 1	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF3128	66" L x 64" W x 30" H	Darkest Gray A38y	Standard Ground and Polish Top and Bench; Acid Wash Legs	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-02	EA	OF-OI	PICNIC TABLE- TYPE 2	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	TF3125	66" DIA x 30" H	Darkest Gray A38y	Standard Ground and Polish Top and Bench; Acid Wash Legs	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-03	EA	OF-OI	PICNIC TABLE- TYPE 3	[Owner Furnished] Kay Park Recreation 1301 Pine St. Janesville, IA 50647 P. 866.741.8266	Galvanized Steel Pipe Frame Composite Slats	J2 Series	8' L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TB-04	EA	OF-OI	GAME TABLE	[Owner Furnished] Wausau Tile P.O. BOX 1520 Wausau, WI 64402 www.wausautile.com	Precast Concrete	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TR-01	EA	OF-OI	MESH TRASH RECEPTACLES	[Owner Furnished] Kay Park Recreation 1301 Pine St. Janesville, IA 50647 P. 866.741.8266	Steel Mesh	52 Gallon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TR-02	EA	OF-OI	TRASH RECEPTACLES, TYPE 1	[Owner Furnished] Max-R W248 N5499 Executive Drive Sussex, WI 53089 P. 855.204.3560	HDPE Recycled Plastic	Infinity Round Rivited	55 Gallon	Black	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
TR-03	EA	OF-OI	RECYCLING RECEPTACLE	[Owner Furnished] Max-R W248 N5499 Executive Drive Sussex, WI 53089 P. 855.204.3560	HDPE Recycled Plastic	Infinity Round Rivited	N/A	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
CR-01	EA	OF-OI	HOT COAL RECEPTACLE	[Owner Furnished] Kay Park Recreation 1301 Pine St. Janesville, IA 50647 P. 866.741.8266	Precast Concrete	Concrete Hot Ash Receptacle SKU: CHAR2235	22" x 22" x 35" H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASSEM COMPONE ITEM AE	NT FOR	CF-CI	CONCRETE BASE	N/A	SEE CONCRETE PAVEMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L503	1
FILE NA				1			1	PLO	DT DATE:	PLO	TTED BY:				

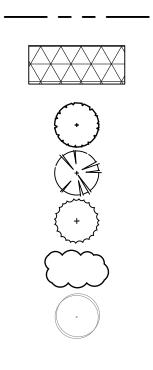


Code	Nursery	Trees	Common Name	Mature Size	Purchase Size	Quantity U	Jnit Price	Total
	SHADE TREES							
E.OC	Johnson's	Celtis occidentalis	Common Hackberry	40' ht x 60' spread	#5 container	6	\$ 99.00	\$ 59
A.GR	Johnson's	Fagus granifolia	American Beech	60' ht x 55' spread	1.5"	7	\$ 285.00	\$ 1,99
.TU	Wayside	Liriodendron tulipifera	Tulip Tree	80' ht x 45' spread	1.75"	8	·····	-
D.GR	Johnson's	Populus grandidentata	Big-tooth Aspen	60' ht x 14' spread	#5 container	13		
	Johnson's	Quercus bicolor	Swamp White Oak	· · · · · · · · · · · · · · · · · · ·	#25 container		\$ 195.00	
U.BI			· · · · · · · · · · · · · · · · · · ·	75' ht x 65' spread				
U.MA	Johnson's	Quercus macrocarpa	Bur Oak	60' ht x 60' spread	#25 container	13	\$ 195.00	- t
						52		\$ 15,04
	ORNAMENTAL TF	REES						
M.AU		Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	15' ht x 25' spread	#5 container	18		1
E.CU	Wayside	Betula nigra 'Cully'	Heritage River Birch	40' tall x 40' wide (multi-stem)	6'		\$ 144.00	\$ 72
A.CA	Wayside	Carpinus caroliniana	Musclewood	25' ht x 25' spread	2"	18	·	
				· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
A.SP	Wayside	Catalpa speciosa	Northern Catalpa	40' ht x 30' spread	1.75"	13	·····	
E.CA	Wayside	Cercis canadensis	Redbud	20' ht x 25' spread (multi-stem)	6'	9	\$ 192.00	\$ 1,72
E.JA	Wayside	Cercidiphyllum japonicum	Katsura Tree	50' ht x 20' spread	1.75"	5	\$ 199.00	\$ 99
O.AL	Wayside	Cornus alternifolia	Pagoda Dogwood	15'ht x 15' spread	4'	16	\$ 92.00	\$ 1,47
O.MA	Wayside	Cornus mas	Corneliancherry Dogwood	20' ht x 15' spread (tree-form)	1.75"	20	\$ 167.00	\$ 3,34
R.CR		Crataegus crus-galli	Cockspur Hawthorn	20-30' ht x 25-35' spread	#5 container	6	·	
1A.BU	Wayside	Magnolia 'Butterflies'	Magnolia 'Butterflies'	20' ht x 20' spread	1.75"	7	·	\$ 1,62
				· · · · ·				
IA.LE	Wayside	Magnolia 'Leonard Messel'	Magnolia 'Leonard Messell'	15' ht x 20' spread (multi-stem)	5'		\$ 180.00	
O.TR	Wayside	Populus tremuloides	Quaking Aspen	40' ht x 25' spread (multi-stem)	8'	20	\$ 170.00	\$ 3,40
						128		\$ 21,35
	EVERGREEN TREE							
J.CO	Johnson's	Juniper communis	Old Field Common Juniper	4'h x 10' spread	#2 container	50	\$ 27.00	\$ 1,35
J.VI	Johnson's	Juniperus virginiana	Eastern Redcedar	30-40'ht x 8-20' spread	#5 container	56	·	
				•			•	· · · · · · · · · · · · · · · · · · ·
A.LA	Johnson's	Larix laricina	Tamarack	30-50' ht x 10-15' spread	#10 container	28		
1E.GL	Wayside	Metasequoia glyptostroboides	Dawn Redwood	75' ht x 15-25' spread	2"		\$ 170.00	-+ ⁻
I.AB	Wayside	Picea abies	Norway Spruce		6'		\$ 250.00	\$ 12,50
H.ST	Wayside	Thuja plicata 'Standishii'	Green Giant Arborvitae	60' ht x 12-20' spread	5'	34	\$ 160.00	\$ 5,44
						222		\$ 15,04
	SHRUBS							
						40	ć 10.75	
E.AM	Midwest	Ceanothus americanus	New Jersey Tea	2-3' ht x 4' spread	#3 container	40		
O.SE	Midwest	Cornus sericea	Red osier Dogwood	6' ht x 6' spread	#5 container	18	\$ 19.25	\$ 34
I.G2	Midwest	Diervilla x 'G2X88544'	Kodiak Orange Diervilla	4' ht x 4' spread	#3 container	65	\$21.75	\$ 1,42
I.JE	Johnson's	Diervilla lonicera 'Jewell'	Jewel Honeysuckle	4' ht x 4' spread	#2 container	77	\$ 17.00	\$ 1,30
I.SM	Midwest	Diervilla rivularis 'SMNDRSF'	Kodiak Black Diervilla	4' ht x 4' spread	#3 container	26	\$21.75	\$ 56
O.NI	Midwest	Forsythia x 'NIMBUS'	Sugar Baby Forsythia	24" ht x 4' spread	#3 container	62	-	
				•			-	
A.VI	Midwest	Hamamelis virginiana	Common Witchhazel	12' ht x 12' spread	#5 container	24	-	
H.PO	Midwest	Physocarpus opulifolius 'Podaras 3'	Lemon Candy Ninebark	2.5' ht x 3' spread	#5 container	40	-	
RH.BA	Midwest	Rhus typhina 'Bailtiger'	Tiger Eye Sumac	10'ht x 10' spread	#5 container	9	\$ 25.50	\$ 22
RH.TY	Midwest	Rhus typhina	Staghorn Sumac	12' ht x 20' spread	#5 container	80	\$ 24.25	\$ 1,94
P.CO	Wayside	Spiraea betufolia 'COURISPI01'	Pink Sparkler Spirea	4' ht x 4' spread	18"	43	\$ 21.00	\$ 90
Y.BL	Midwest	Syringa x 'Bloomerang Lilac'	Bloomerang Lilac dark purple	4' ht x 4' spread	#3 container	11	\$ 22.50	\$ 24
						495		\$ 10,82
						455		<u> </u>
	FORBS						•	T
L.SU	Radtke	Allium 'Summer Beauty'	Summer Beauty Allium	18"ht x 12" spread	#1 container	57		
M.CA	Radtke	Amorpha canescens	Lead Plant	3'ht x 4' spread	quart	21	\$ 6.25	\$ 13
S.TU	Radtke	Asclepias tuberosa	Butterfly Weed	2'ht x 12" spread	#1 container	69	\$ 7.50	\$ 51
A.TW	Radtke	Baptisia x varicolor 'Twilite'	Twilite Prairieblues Baptisia	24" ht x 4' spread	#1 container	34	\$ 10.50	\$ 35
A.VA	Radtke	Baptisia Decadence 'Vanilla Cream'	Baptisia Vanilla Cream	24" ht x 4' spread	#1 container		\$ 14.00	
A. VA A.MO	Radtke	Calamintha nepeta 'Montrose White'	Montrose White Catmint	18"ht x 24" spread		82		
					#1 container			-+
U.BA	Radtke	Eupatorium dubium 'Baby Joe'	Baby Joe-pye Weed	2'ht x 2' spread	quart	36		
E.BE	Radtke	Hemerocallis 'Bela Lugosi' (sub)	Bela Lugosi Daylily (sub)	28" ht x 1.5' spread	#1 container	71		
E.HY	Radtke	Hemerocallis 'Hyperion'	Hyperion Daylily	3' ht x 1.5' spread	#1 container	74	\$ 7.50	\$ 55
I.CR	Midwest	Hibiscus Summerific 'Cranberry Crush'	Cranberry Crush Hibiscus	3' ht x 4' spread	#2 container	7	\$ 13.95	\$ 9
U.LI	Radtke	Rudbeckia fulgida var. sullivantii 'Little Goldstar'	Little Goldstar Black-eyed Susan	14" x 14"	#1 container	107		
A.CA	Radtke	Salvia nemerosa 'Caradonna'	Caradonna Salvia	24" ht x 24" spread	#1 container	67		
A.MA	Radtke	Salvia nemerosa 'Mainacht'	May Night Salvia	18" ht x 24" spread	#1 container	35		
T.HU	Radtke	Stachys monieri 'Hummelo'	Hummelo Lamb's Ear	20" ht x 20" spread	#1 container	51	\$ 6.50	
						730		\$ 5,78
	GRASSES							
N.GE	Radtke	Andropogon gerardii	Big Bluestem	4' ht x 24" spread	#1 container	91	\$ 6.25	\$ 56
	Radtke	Chasmanthium latifolium	Northern Sea Oats		#1 container			
H.LA				30" ht x 12" spread		47		
A.SH	Radtke	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	4' ht x 2' spread	#1 container	61		
C.SC	Radtke	Schizachyrium scoparium	Little Bluestem	2' ht x 12" spread	#1 container	163		
E.AU	Radtke	Sesleria autumnalis	Autumn Moor Grass	3' ht x2' spread	#1 container	117	\$ 9.50	\$ 1,11
	SEED MIXES				•	479		\$ 3,69
		Lawn Turf			SF	109100		
					SF	51,800		1
	Agrecol			1	1.01			
	Agrecol	Low Prairie Seed Mix						
	-	Low Prairie Seed Mix No Mow Turf			SF	55900		
	Agrecol	Low Prairie Seed Mix No Mow Turf Basin Seed Mix			SF SF	55900 13600		
	-	Low Prairie Seed Mix No Mow Turf			SF	55900		
	Agrecol	Low Prairie Seed Mix No Mow Turf Basin Seed Mix			SF SF	55900 13600		





LEGEND



PROPERTY LINE

AREA TO BE IRRIGATED

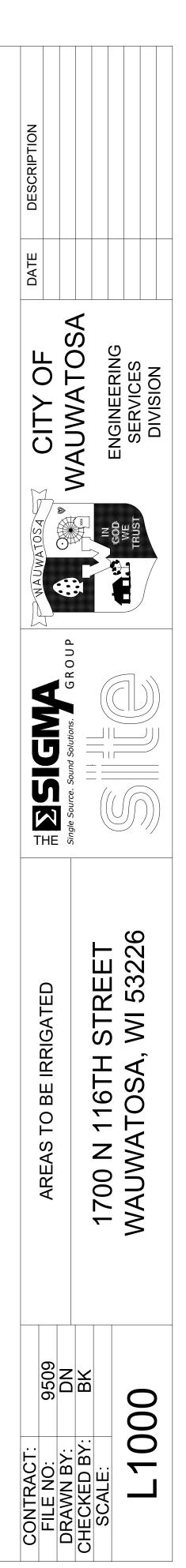
SHADE TREE

ORNAMENTAL TREE

EVERGREEN TREE

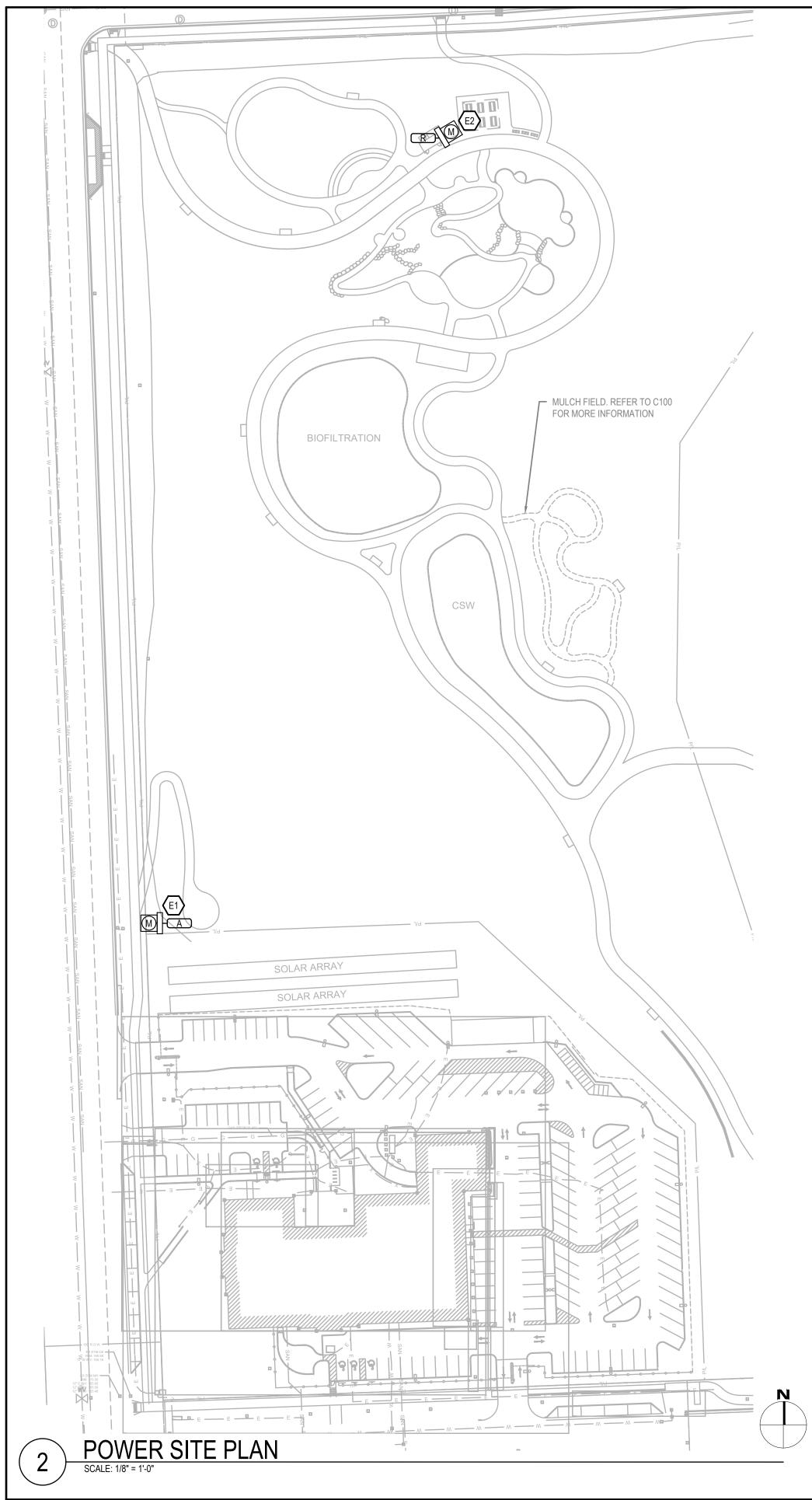
EXISTING TREES TO REMAIN AND BE PROTECTED

EXISTING TREE TO REMAIN



ABE	BREVIATIONS			NG LEGEND	R LEGEND	GENEF	RAL LEGEND
ABE AC AC AC AC AC AC AC AC AC AC	ALTERNATING CURRENT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY ALTERNATE AMPERE AREA OF REFUGE AREA OF REFUGE REMOTE STATION AREA OF REFUGE REMOTE STATION AUTOMATIC TRANSFER SWITCH AUTOMATIC TRANSFER SWITCH AUTOMATIC AUDIO VISUAL BUILDING BOTTOM CONDUIT CABINET COMMUNITY ANTENNA TELEVISION CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CANDELA OR CONSTRUCTION DOCUMENT CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CANDELA OR CONSTRUCTION DOCUMENT CIRCUIT CELING COAXIAL CABLE CONTROL PANEL CURRENT TRANSFORMER COPPER DECIBEL DIRECT BURIAL DEMOLITION DISCONNECT DISTRIBUTION DISMING DOWN DOUBLE POLE, SINGLE THROW DOUBLE POLE, SINGLE THROW DAYLIGHT SENSOR DRAWING EMERGENCY ENCLOSURE ELEVATOR ELEVATOR ELEVATOR RECALL EXISTING TO BE RELOCATED ELECTRIC STRIKE EXISTING TO REMAIN FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM FIRE ALARM CONTROL PANEL FIRE ALARM FIRE ALARM PIRE FIRE PROTECTION FULL JOAD AMPERE FIRE PROTECTION FULL VOLTAGE REVERSING FULL VOLTAGE REVERSING FULL VOLTAGE REVERSING FULL VOLTAGE REVERSING FULL VOLTAGE REVERSING FULL VOLTAGE REVERSING	NIC NL NO NTS OC OD OL OS P PA PB PC PE PED PEND PF PH PNL PWR RC RCC RECPT SS SW T C T V T VS SPEC SPST SS W T C T V T VSS T P UL UNV UPS V A VAC VFD W WP X- XFER XFMR	NOT INCLUDED IN CONTRACT NGRMLLY OPEN NOT TO SCALE ON CENTER OUTSIDE DUMIETER OUTSIDE DUMIETER OUTSIDE DUMIETER OUTSIDE DUMIETER OUTSIDE DUMIETER OUTSIDE DUMIETER OUTSIDE CADDRESS PUSHEUTTON PULMENG CONTRACTOR PHOTOELECTRIC CELL, PHOTOEYE PEDESTAL PENDANT POWER FACTOR PHASE PILOT LICHAT PANEL POWER RECEPTACLE SHORT CIRCUIT CAPACITY SUGAE POOT (FET) SURGE POTOE CONTROL RECEPTACLE SHORT CIRCUIT CAPACITY SUGAE POOT (FET) SURGE POTOE TON DEVICE SPECIFICATION SINGLE FOOLE, SINGLE THROW SWITCH STATION SWITCH TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERWRITERS LABORATORY UNVERSAL UNINTERRUPTIBLE POWER SUPPLY VOLT AMPERPROOF VOLT AMPERE VOLT AMPERE TRANSFORMER	NG LEGEIND SWITCH THREE WAY WALL SWITCH FOUR WAY WALL SWITCH DIMMING SWITCH THREE WAY DIMMING SWITCH STEP DIMMING SWITCH STEP DIMMING SWITCH KEYED SWITCH THREE WAY KEYED SWITCH FOUR WAY KEYED SWITCH DUAL LEVEL SWITCH SWITCH STATION SWITCH BOX OCCUPANCY SENSOR CELLING MOUNT OCCUPANCY SENSOR CELLING MOUNT OCCUPANCY SENSOR CELLING MOUNT OCCUPANCY SENSOR CONTACTOR TIMECLOCK REMOTE TRANSFORMER CELLING MOUNT VACANCY SENSOR CELLING MOUNT DAYLIGHT SENSOR EXTERIOR PHOTOELECTRIC SWITCH SURFACE MOUNT LIGHT FIXTURE - EMERGENCY PENDANT DIRECT/INDIRECT - EMERGENCY PENDANT DIRECT/INDIRECT - EMERGENCY PENDANT DIRECT/INDIRECT - EMERGENCY 2X2 SURFACE MOUNT FIXTURE - EMERGENCY 2X2 SURFACE MOUNT FIXTURE - EMERGENCY 2X2 RECESSED FIXTURE 2X2 SURFACE MOUNT FIXTURE - EMERGENCY 2X4 RECESSED FIXTURE - EMERGENCY 2X4 RECESSED FIXTURE - EMERGENCY 2X4 RECESSED FIXTURE - EMERGENCY 2X4 RECESSED FIXTURE - EMERGENCY PENDANT DIRECTINDIRECT - EMERG	KLEGEND SINGLE RECEPTACLE DUPLEX RECEPTACLE & DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE SPECIAL PURPOSE OUTLET DUPLEX FLOOR OUTLET DOUBLE DUPLEX FLOOR OUTLET CELING MOUNTED DUPLEX RECEPTACLE CELING MOUNTED DUPLEX RECEPTACLE CELING MOUNTED DUPLEX RECEPTACLE OWER POLE JUNCTION BOX CIRCUIT BREAKER FUSE GROUND TRANSOCKET SURFACE MOUNT PANEL RECESSED PANEL MATHAL DISCONNECT NON-FUSED DISCONNECT FUSED DISCONNECT MOTOR POWER ASSIST OPERATOR PUSH PLATE		YAL LEGEND NEW ELECTRICAL COMPON EXISTING ELECTRICAL COM DEMOLISHED ELECTRICAL COM KEY NOTE TYPICAL CIRCUIT UNSWITCHED CIRCUIT

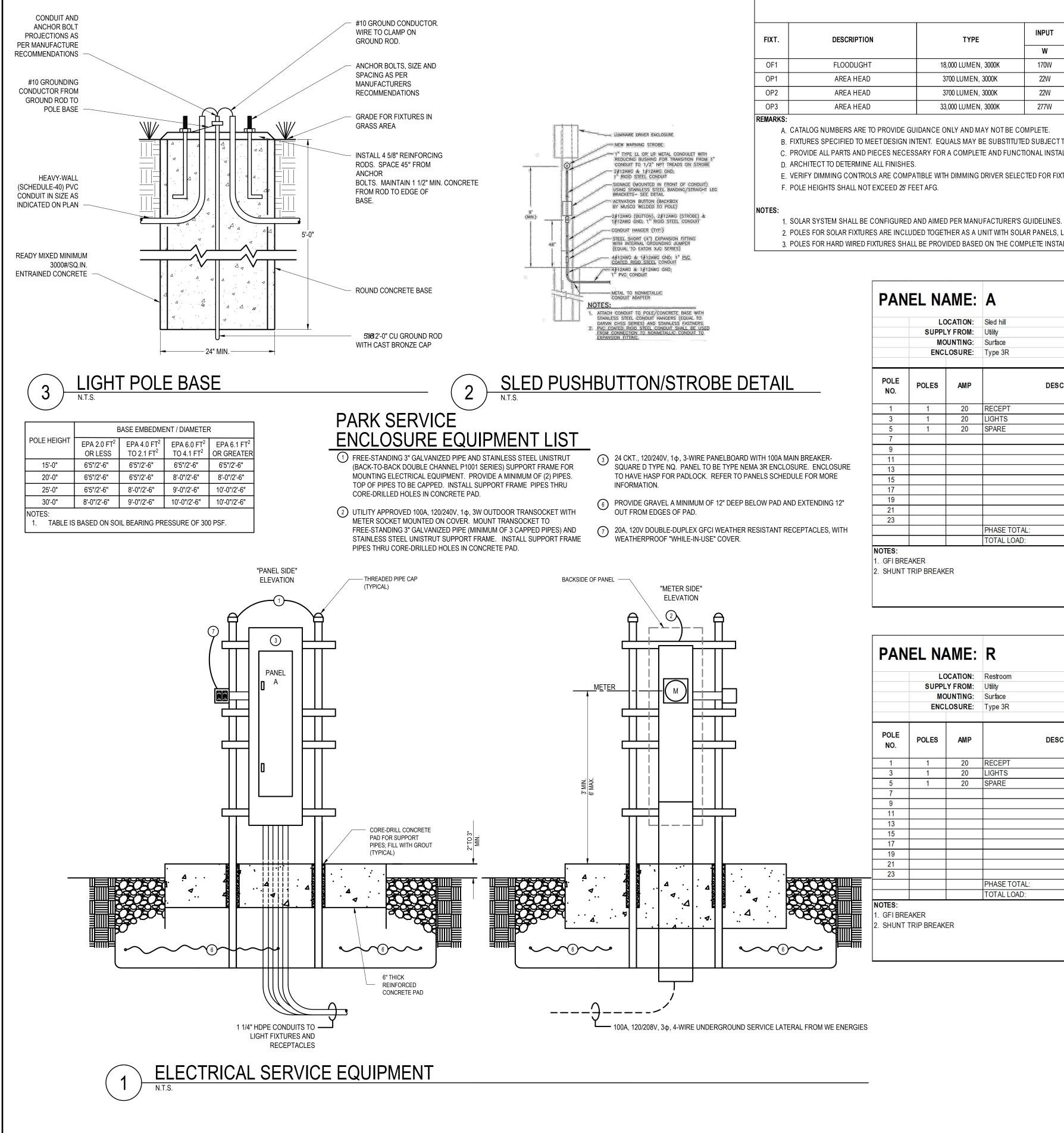
	GENERAL NOTES	
MPONENT LL COMPONENT RICAL COMPONENT	 DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED COMPONENTS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL, EQUIPMENT, DEVICES, FIXTURES, SERVICE REQUIREMENTS NECESSARY TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS, FOR A COMPLETE AND FUNCTIONAL INSTALLATION AND SHALL MAINTAIN APPROPRIATE CLEARANCES. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, 	DESCRIPTION
	 AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADEO DRIVED TO INSTALLATION. 	DATE
	 4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. 5. FAILURE TO DO SO WILL NOT DELIFYE THE CONTRACTOR OF 	
	 FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. 5. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND INCLUDE IN THEIR 	OF TOSA In SN SN SN SN
	 BID ANY ADDITIONAL WORK REQUIRED BY THIS TRADE. 6. CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION CONFIGURATIONS BEFORE PURCHASE. ALL DEVICES SHOWN ARE FOR REFERENCE ONLY, TO COMMUNICATE DESIGN INTENT, FINAL LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION. THIS NOTE SHALL APPLY TO, BUT NOT BE LIMITED TO, RECEPTACLES, SWITCHES, DATA PORTS, AUDIO/VIDEO DEVICES, AND TELEPHONE JACKS. 	CITY OF MAUWATO ENGINEERING SERVICES DIVISION
	7. CONDUCTOR SIZES INDICATED ARE MINIMUM SIZES BASED ON 60°C COPPER CONDUCTOR 100 AMPS OR LESS AND 75°C COPPER CONDUCTOR GREATER THAN 100 AMPS. AMPACITIES OF CONDUCTORS DO NOT TAKE VOLTAGE DROP INTO CONSIDERATION. CONTRACTOR SHALL SIZE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS, OR COMBINATION OF SUCH LOADS, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT, TO PROVIDE REASONABLE EFFICIENCY OF OPERATION.	TRUST TRUST
		HE Source. Sound Solutions.
		ELECTRICAL LEGEND AND NOTES 1900 N 116TH STREET WAUWATOSA, WI 53226
	b cengineering services, inc. WISCONSIN ILLINOIS FLORIDA IBC PROJECT NO: 2023032	CHECKED BY: CHECKED BY: SCALE: AS SHOWN CHECKED BY: DRAWN BY: FA AS SHOWN T: T OE 3



FILE NAME: ELECTRICAL PLANS.DWG



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— РЛ.		ALL LIGHT FIXT			JNTED AT 20	' ABOVE					
	KE	FINISHED GRAI					NO				
	L1	FIXTURE TYPE POLE AND ASS THIS PROJECT SHALL VERIFY FIXTURE LOAD PROJECT REQ	OPC SHALL OCIATED PC 'S SCOPE, A EXISTING P PRIOR TO F	DWER BY THE ND AS SHOW OLE'S SUITAE PROJECT COM	E CITY, OUTS N ON PLANS BILITY FOR IN	IDE OF 5. CITY ICREASED	DESCRIPTION				
P/L	L2	THIS POLE SHA MOUNTED AND OF1 SHALL BE SITE FOR BEST	ALL BE INST AIMED AS S MOUNTED C	ALLED WITH F SHOWN ON PI ON TOP OF TH	LANS. FLOOD IE POLE AND) LIGHTS AIMED ON	DATE				
	L3	LIGHTING FOR TIMED PUSH B E501 (SITE CON	UTTON CON	TROL SYSTEI	M. REFER TC	ED VIA) SHEET		A			
	L4 L5	PUSH BUTTON DETAIL 2 ON SI FIXTURE TYPE ASSOCIATED F	LOCATED O HEET E500 F OPC SHALL	IN INDEPENDI OR MORE INF BE INSTALLE	ENT POLE. R FORMATION.	EFER TO		ATOS	EERING	/ICES	SION
	L6	PROJECT'S SC CONDUIT TO A FOR CITY INST STYLE TO MAT FIXTURE AND F	OPE, AND AS CCOMMODA ALLED HARE CH EXISTING	S SHOWN ON TE PROPOSE O WIRED POLI G CITY POLES	PLANS. D FUTURE L E AND LIGHT S AND HEADS	OCATION FIXTURE. S. THIS	CIT	/AUW	ENGINI	SER/	DIVI
	E1	PROPOSED LO PANEL A.						<			
	E2	PROPOSED LO PANEL R. PROV PANEL.METER BUILDING. PAN ROOM BUILDIN TO PANELBOAI INFORMATION.	/IDE 100A, 1 IS LOCATED EL IS LOCAT G. PROVIDE RD. REFER 1	20/240V, 24 P ON EXTERIC ED WITH JAN CONVENIEN	OLE ELECTR OR OF REST I IITORS CLOS CE RECEPTA	CAL ROOM SET IN REST ACLE NEXT	WAUWATOSA		COD GOD	TRUST	
								Single Source. Sound Solutions.		ſ,	
				DIGGERS I		OR CONSTRUCTION	ELECTRICAL SITE PLANS			WAUWATOSA_WI 53226	
				TOLL FREE ATUTE 198-01196 MENNE 191 196 SERVICE 199 END AREA 259 AREA 259 CONSIN ILLINO IBC PROJECT N FULL SIZE SH	ering S, inc. IS FLORIDA NO: 2023032	NOT FOR CO	CONTRACT: FILE NO: 21231	DRAWN BY: GS CHECKED BY: DH	SCALE: AS SHOWN	E100	



				L	IGHTING FIXTUR	E SCHEDULE		
FIXT.	DESCRIPTION	ТҮРЕ	INPUT	VOLT	MANUFACTURER	CATALOG NUMBER	MOUNTING	SEE NOTE
			W					
OF1	FLOODLIGHT	18,000 LUMEN, 3000K	170W	120V	LITHONIA	DSXF3 LED-6-P2-30K-70CRI-MSP-[VOLTAGE]-[MOUNTING]-[OPTIONS]-DBLXD	POLE	3
OP1	AREA HEAD	3700 LUMEN, 3000K	22W	SOLAR	SUNNA DESIGN	SL4249-1-[LIGHTING PROFILE]-290-RL204-3-120-2-27	POLE	1,2
OP2	AREA HEAD	3700 LUMEN, 3000K	22W	SOLAR	SUNNA DESIGN	SL4249-1-[LIGHTING PROFILE]-290-RL204-3-120-2-07	POLE	1,2
OP3	AREA HEAD	33,000 LUMEN, 3000K	277W	120V	LITHONIA	DSX1 LED-P9-30K-70CRI-T4M-[VOLTAGE]-[MOUNTING]-[OPTIONS]-DBLXD	POLE	3
			•			•		

A. CATALOG NUMBERS ARE TO PROVIDE GUIDANCE ONLY AND MAY NOT BE COMPLETE.

B. FIXTURES SPECIFIED TO MEET DESIGN INTENT. EQUALS MAY BE SUBSTITUTED SUBJECT TO DESIGN TEAM'S APPROVAL WITH PROOF OF SYSTEM PERFORMANCE VIA CALCULATION AND PRODUCT DOCUMENTATION. C. PROVIDE ALL PARTS AND PIECES NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

D. ARCHITECT TO DETERMINE ALL FINISHES.

E. VERIFY DIMMING CONTROLS ARE COMPATIBLE WITH DIMMING DRIVER SELECTED FOR FIXTURE.

F. POLE HEIGHTS SHALL NOT EXCEED 25' FEET AFG.

2. POLES FOR SOLAR FIXTURES ARE INCLUDED TOGETHER AS A UNIT WITH SOLAR PANELS, LIGHTING FIXTURES, AND BATTERIES.

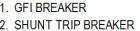
3. POLES FOR HARD WIRED FIXTURES SHALL BE PROVIDED BASED ON THE COMPLETE INSTALLATION OF ALL LIGHT FIXTURES AND MOUNTING EQUIPMENT AS DIRECTED BY FIXTURE MANUFACTURER. MANUFACTURER SHALL PROVIDE SHOP DRAWING FOR THIS INSTALLATION.

PAN	EL N/	AME:	Α										
	LC	CATION:	Sled hill			VOLTS:	120/240		AIC RAT	ING:	10,000 MI	N. EC TO '	VERIF
	SUPPL	Y FROM:	Utility			PHASES:	1		MAINS T	YPE:	MCB		
	MO	UNTING:	Surface			WIRES:	3		BUS RAT	ING:	100		
	ENCI	OSURE:	Type 3R						MCB RAT	ING:	100		
POLE NO.	POLES	AMP	DESCRIPTION	NOTES		A	6	3	DESRIPTION	NOTES	AMP	POLES	PC N
1	1	20	RECEPT		720					SPARE	20	1	
3	1	20	LIGHTS				1234			SPARE	20	1	
5	1		SPARE							SPARE	20	1	
7													
9													
11													
13													
15													
17													
19													
21													
23													
			PHASE TOTAL:			720		0					
			TOTAL LOAD:				0						

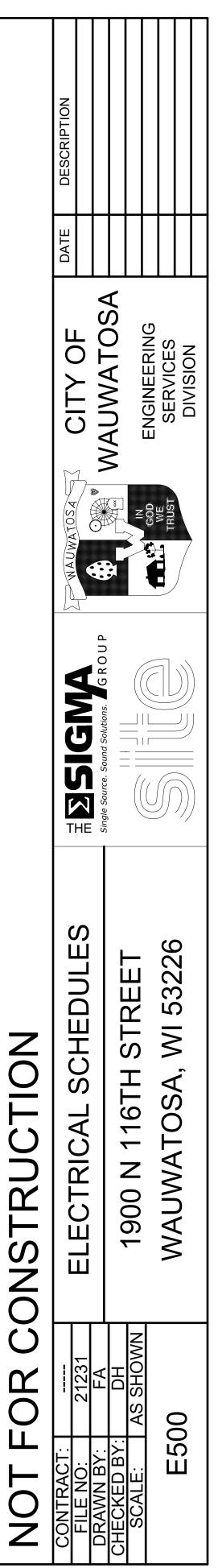
1. GFI BREAKER

2. SHUNT TRIP BREAKER

ATION: Restroom FROM: Utility ITING: Surface		VOLTS:			r – 1 – 7		
FROM: Utility ITING: Surface			120/240	AIC RATING:	10,000 MI	N. EC TO V	VERIFY
ITING: Surface		PHASES:	1	MAINS TYPE:	MCB		
		WIRES:	3	BUS RATING:	100		
SURE: Type 3R				MCB RATING:	100		
AMP DESCRIPTION	NOTES	A	В	DESRIPTION	NOTES AMP	POLES	POL NO
20 RECEPT				SPARE	20	1	2
20 LIGHTS				SPARE	20	1	4
20 SPARE				SPARE	20	1	6
							8
							10
							12
							14
							16
							18
							20
							22
							24
PHASE TOTAL:		0	0				
	SE TOTAL:						







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