

Gopher State One Call
 TWIN CITY AREA: 651-454-0002
 TOLL FREE: 1-800-252-1166

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LEGEND

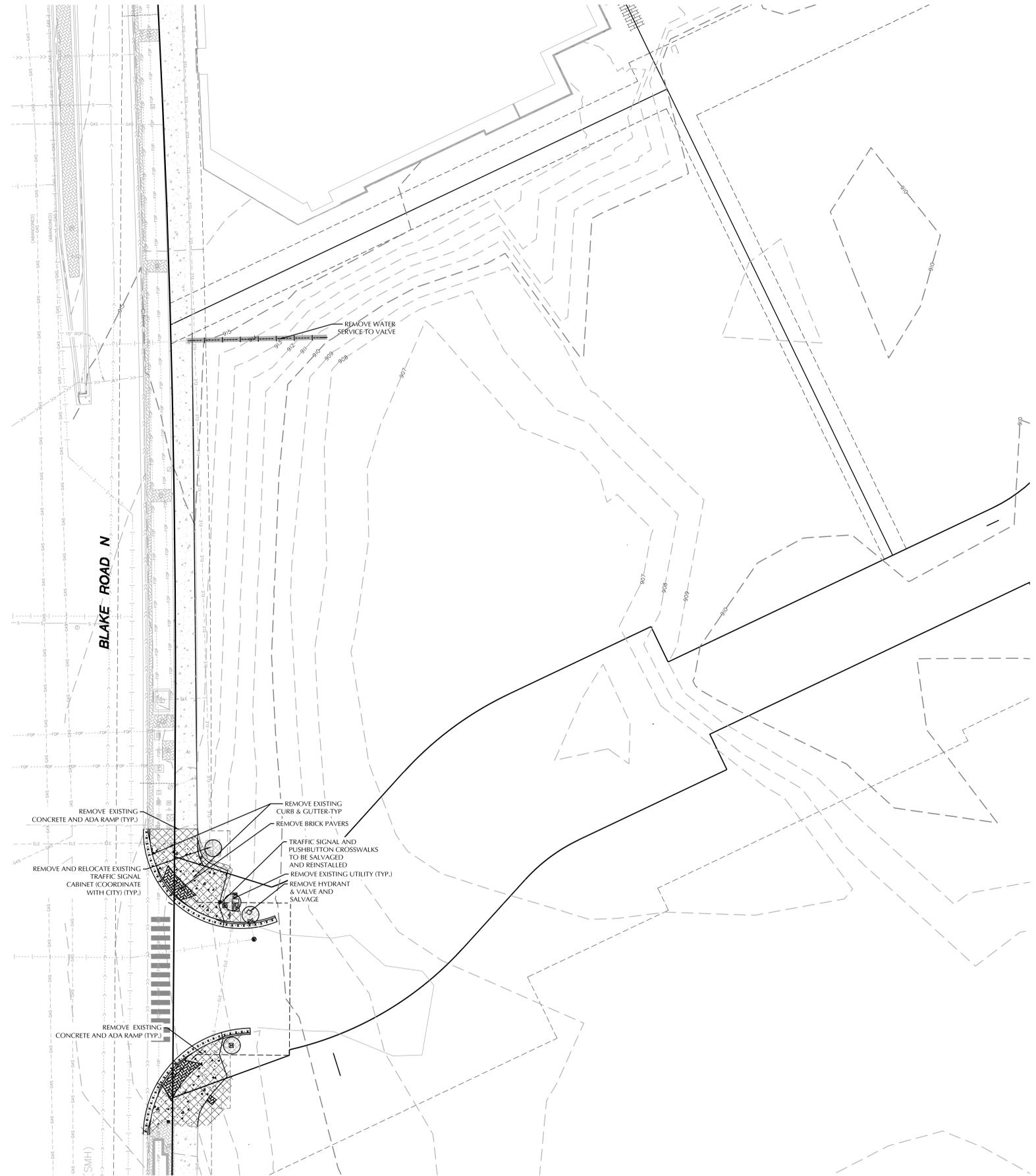
● FOUND 1/2 INCH OPEN IRON MONUMENT UNLESS SHOWN OTHERWISE	—> STORM SEWER
○ SET 1/2 INCH X 14 INCH IRON MONUMENT, MARKED "LS 48988"	—> SANITARY SEWER
⊕ CATCH BASIN	— — WATERMAIN
⊕ STORM MAN-HOLE	—S— SANITARY SEWER SERVICE
⊕ SANITARY MAN-HOLE	—W— WATER SERVICE
⊕ HYDRANT	—E— UNDERGROUND ELECTRIC
⊕ GATE VALVE	—FO— UNDERGROUND FIBER OPTIC
⊕ ELECTRIC TRANSFORMER	—GAS— UNDERGROUND GAS
⊕ ELECTRIC METER	—TEL— UNDERGROUND TELEPHONE
⊕ GAS METER	—OH— OVERHEAD UTILITY
⊕ GUY WIRE	—O—O— CHAIN LINK FENCE
⊕ HAND HOLE	—C— CONCRETE CURB
⊕ LIGHT POLE	—C— CONCRETE
⊕ POWER POLE	—N— NO PARKING
⊕ ROOF DRAIN	—E— EXISTING BUILDING
⊕ TELEPHONE PEDESTAL	—C— CONTOUR
⊕ SIGN	—972.5— SPOT ELEVATION
② PARKING STALL COUNT	—T— TREE LINE
♿ DISABLED PARKING STALL	⊕ CONIFEROUS TREE
① SCHEDULE B II ITEM	⊕ PINE
	⊕ DECIDUOUS TREE
	AS ASH
	MA MAPLE
	TR TREE (GEN)

SITE DEMOLITION SPECIFICATIONS

- CONTRACTOR SHALL REMOVE AND/OR RELOCATE EXISTING PRIVATE UTILITIES AS NECESSARY. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES.
- CONTRACTOR SHALL PROTECT SURFACE AND SUBSURFACE FEATURES NOT NOTED FOR REMOVAL.
- CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION WITHIN CONSTRUCTION LIMITS, STRIP TOP SOIL, AND STOCKPILE ON-SITE. REFER TO GRADING PLAN AND SWPPP FOR SEDIMENT AND EROSION CONTROL REQUIREMENTS.
- CLEAR AND GRUB AND REMOVE ALL TREES, VEGETATION AND SITE DEBRIS PRIOR TO GRADING. ALL REMOVED MATERIAL SHALL BE HAULED FROM THE SITE DAILY. EROSION CONTROL MEASURES SHALL BE IMMEDIATELY ESTABLISHED UPON REMOVAL. SEE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- CONTRACTOR SHALL REMOVE ALL SITE SURFACE FEATURES WITHIN REMOVAL LIMITS UNLESS OTHERWISE NOTED.
- BITUMINOUS PAVEMENT REMOVALS ARE TO BE MADE TO A VERTICAL SAW CUT OR TO A NEAT MILLED EDGE.
- CONCRETE PAVEMENT, SIDEWALK, CURB & GUTTER AND OTHER POURED CONCRETE ITEMS ARE TO BE REMOVED TO AN EXISTING EXPANSION OR CONTRACTION JOINT, SAW CUT AS NECESSARY FOR A NEAT EDGE OF REMOVAL.
- ALL REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE DISPOSED OF OFF-SITE IN A MANNER MEETING ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL SIGNS, MAILBOXES, ETC.
- ANY DAMAGE TO ITEMS NOT NOTED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION WITH NO ADDITIONAL COMPENSATION.

DEMOLITION LEGEND

	REMOVE EXISTING BUILDING
	REMOVE EXISTING BITUMINOUS PAVING
	REMOVE EXISTING CONCRETE PAVING, SIDEWALKS, ETC.
	MILL AND OVERLAY EXISTING PARKING LOT
	REMOVE EXISTING GRAVEL AREA
	REMOVE EXISTING CURB & GUTTER, RETAINING WALLS, FENCE, ETC.
	REMOVE EXISTING UTILITIES
	REMOVE EXISTING MANHOLES, POWER POLES, LIGHT POLES, BOLLARDS, PARKING METERS, SIGNS, ETC.
	REMOVE EXISTING TREES
	TREE PROTECTION FENCE



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SUBMITTAL/REVISIONS
 12/21/23 PUD AMENDMENT

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PROFESSIONAL SIGNATURE
 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Michael J. St. Martin - PE
 License No. 24440
 Date 12-21-2023

QUALITY CONTROL
 Loucks Project No. 20503T
 Project Lead MUS
 Drawn By NWC
 Checked By MUS
 Review Date 12-21-2023

SHEET INDEX

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L4-1	LANDSCAPE DETAILS

Plotted: 12/21/2023 2:25 PM W:\2020\20503T\CADD\DATA\CADD\DATA\CADD\Bldg Sheet Files\Phase 2 - Building\B1-C1-1 EX COND-DEMO PLAN

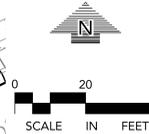
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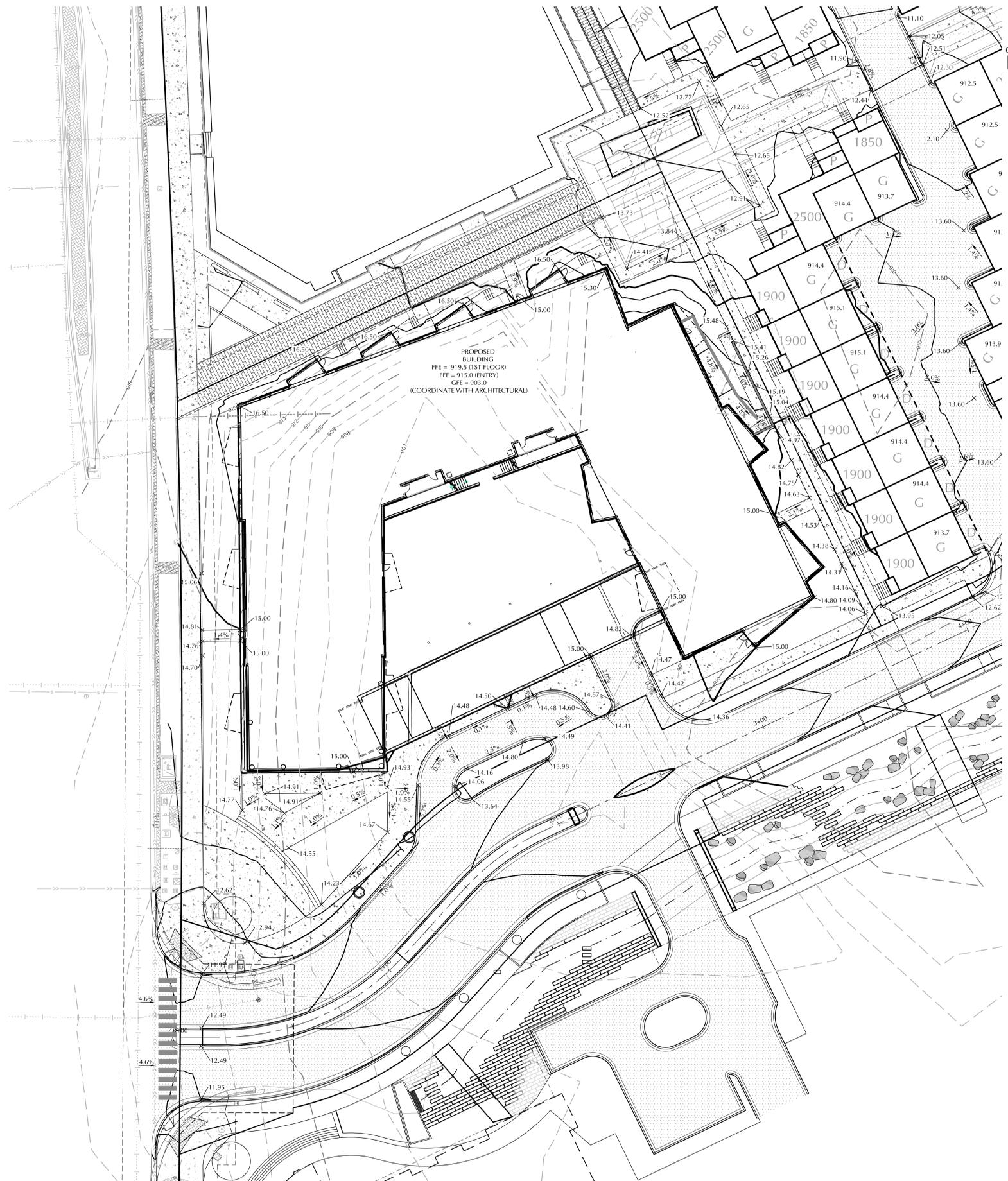
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LEGEND

EXISTING	PROPOSED



GRADING, DRAINAGE & EROSION CONTROL NOTES

- SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES. GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED.
- FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT WALL GRADE TRANSITION, AND "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).
- STREETS MUST BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- DUST MUST BE ADEQUATELY CONTROLLED.
- SEE SWPPP FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
- SEE UTILITY PLANS FOR WATER, STORM AND SANITARY SEWER INFORMATION.
- SEE SITE PLAN FOR CURB AND BITUMINOUS TAPER LOCATIONS.
- SEE LANDSCAPE PLAN FOR FINAL SITE STABILIZATION.

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Michael J. St. Martin - PE
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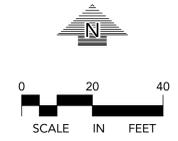
Loucks Project No. 20503T
 Project Lead MJS
 Drawn By NWC
 Checked By MJS
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GRADING PLAN

C3-1



EXISTING	PROPOSED

GENERAL NOTES

SEE SHEET C3-3 FOR SWPPP NOTES AND C3-4 FOR SWPPP DETAILS.

SWPPP LEGEND

	SILT FENCE
	INLET PROTECTION
	EXISTING DRAINAGE PATTERN
	PROPOSED DRAINAGE PATTERN
	EROSION CONTROL BLANKET

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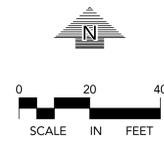
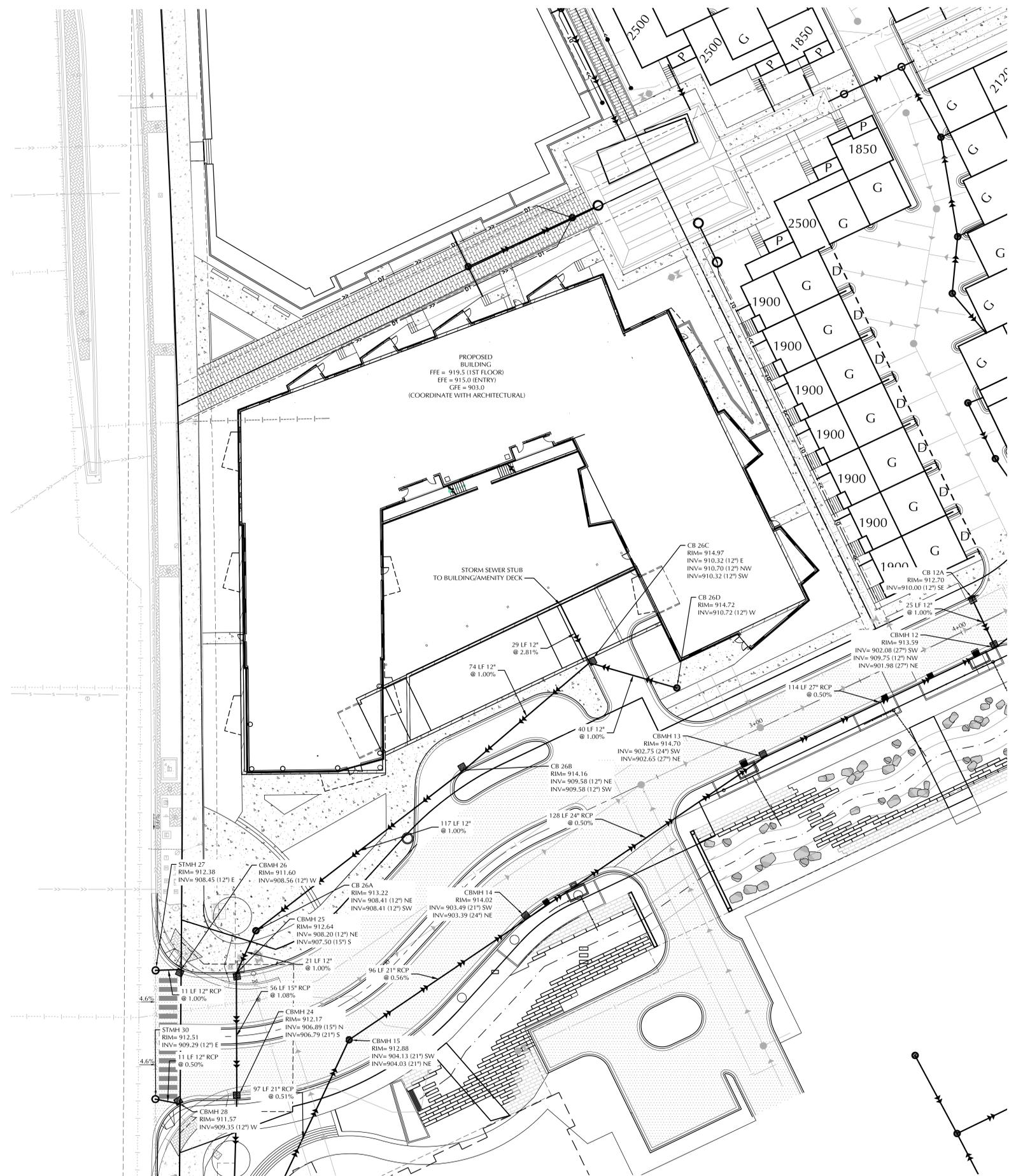
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SWPPP PLAN
C3-2

Plotted: 12/21/2023 2:28 PM W:\2020\2030\CA\ADD DATA\CADD\DWG Sheet Files\Phase 2 - Building, B/C4-5, STORMWATER PLAN



LEGEND	
EXISTING	PROPOSED
	CATCH BASIN
	STORM MANHOLE
	FLARED END SECTION
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE
	POST INDICATOR VALVE
	LIGHT POLE
	WATER MANHOLE/WELL
	POWER POLE
	ELECTRIC METER
	GAS METER
	TELEPHONE PEDESTAL
	SIGN
	BENCHMARK
	SOIL BORING
	PARKING STALL COUNT
	ACCESSIBLE PARKING STALL
	STORM SEWER
	DRAIN TILE
	SANITARY SEWER
	FORCEMAIN
	WATERMAIN
	WATER SERVICE
	SANITARY SEWER SERVICE
	UNDERGROUND ELECTRIC
	UNDERGROUND FIBER OPTIC
	UNDERGROUND GAS
	UNDERGROUND TELEPHONE
	OVERHEAD UTILITY
	FENCE
	CHAIN LINK FENCE
	CONCRETE CURB
	RETAINING WALL
	CONCRETE
	NO PARKING
	BUILDING
	CONTOUR
	SPOT ELEVATION
	DIRECTION OF FLOW
	TREE LINE
	PARKING SETBACK LINE
	BUILDING SETBACK LINE

UTILITY NOTES

- ALL SANITARY SEWER, STORM SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS, THE MINNESOTA PLUMBING CODE, THE LOCAL GOVERNING UNIT, AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), 2013 EDITION.
- ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION AND THE GEOTECHNICAL REPORT.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE PERFORMED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CITY DEPARTMENT OF ENGINEERING AND BUILDING INSPECTIONS DEPARTMENT AND THE CONSTRUCTION ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC UTILITIES.
- ALL STORM SEWER, SANITARY SEWER AND WATER SERVICES SHALL TERMINATE 5' FROM THE BUILDING FACE UNLESS OTHERWISE NOTED.
- A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
- ALL NEW WATERMAIN AND SERVICES MUST HAVE A MINIMUM OF 7.5 FEET OF COVER. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. THE CONTRACTOR SHALL FIELD ADJUST WATERMAIN TO AVOID CONFLICTS WITH SANITARY SEWER, STORM SEWER, AND SERVICES AS REQUIRED. INSULATION OF WATER AND SANITARY SEWER LINES SHALL BE PROVIDED WHERE 7.5 FEET MINIMUM DEPTH CAN NOT BE ATTAINED.
- ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- PROPOSED PIPE MATERIALS:

WATERMAIN	CL 52 DIP	6" TO 8" DIAMETER
SANITARY SEWER	PVC SDR 35 & SCH 40	6" TO 8" DIAMETER
STORM SEWER	DUAL WALL HDPE	12" TO 15" DIAMETER
- ALL PORTIONS OF THE STORM SEWER SYSTEM, INCLUDING CATCH BASINS, LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED ACCORDANCE WITH MINNESOTA RULES, PART 4715.2820
- ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT (SEE MINNESOTA RULES, PART 4715.0700). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER STRUCTURES.
- HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES, PART 4715.0540:
 - PIPES 4-INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.
 - PIPES 12-INCH TO 40-INCH IN SIZE MUST COMPLY WITH ASTM F2306.
 - ALL FITTINGS MUST COMPLY WITH ASTM D3212.
 - WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.
- CONTRACTOR AND MANHOLE FABRICATOR SHALL SUMP (LOWER) ALL STORM SEWER CATCH BASIN CASTINGS WITHIN PAVED AREAS 0.16 FEET OR 2-INCHES BELOW THE RIM ELEVATION DEPICED ON THE UTILITY PLAN.
- ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CITY. THIS SHALL INCLUDE ALL SIGNAGE, BARRICADES, FLASHERS AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES. NO ROAD CLOSURES SHALL BE PERMITTED WITHOUT THE EXPRESSED AUTHORITY OF OF THE CITY.
- THE CITY SHALL OPERATE ALL GATE VALVES.
- CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY CORE DRILLING THE MANHOLE AT THE PROPOSED INVERT ELEVATIONS AND INSTALLING A RUBBER BOOT, GROUT IN THE BOOT AND AN INVERT FOR THE NEW SEWER LINE.
- PIPE LENGTHS SHOWN ON THE PLAN INCLUDE THE APRON SECTION.
- WATERMAIN PIPE SHALL BE DIP CLASS 52, INSTALLED WITH 7.5 FEET OF COVER TO TOP PIPE. FITTINGS SHALL BE COMPACT TYPE. PIPE AND FITTINGS SHALL HAVE A CEMENT MORTAR LINING. CONDUCTIVITY SHALL BE PROVIDED BY WELDED STRAPS ACROSS EACH JOINT.
- TRENCH COMPACTION SHALL BE 95% STANDARD PROCTOR DENSITY IN THE AREA FROM THE PIPE ZONE TO WITHIN 3 FEET OF FINISHED GRADE AND 100% IN FINAL 3 FEET OF THE BACKFILL TO FINISH GRADE.

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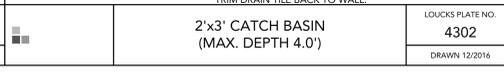
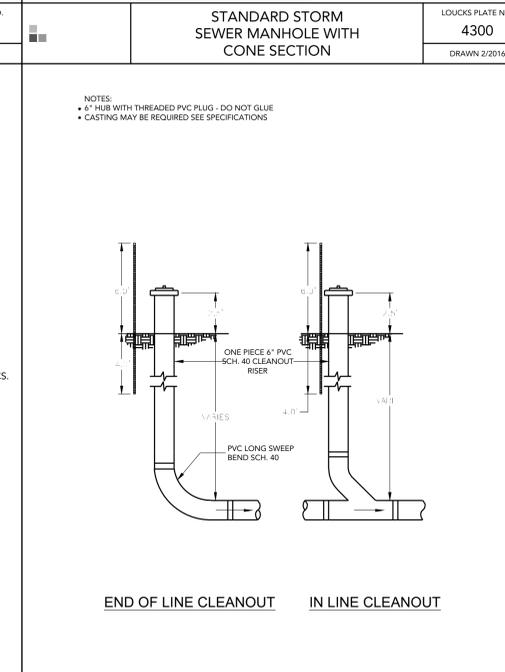
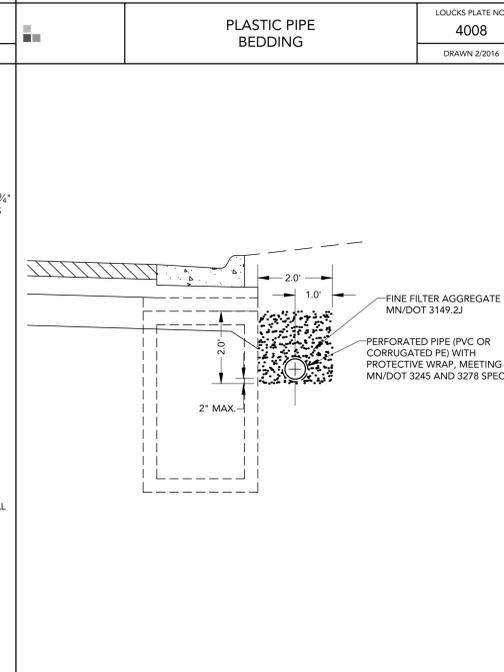
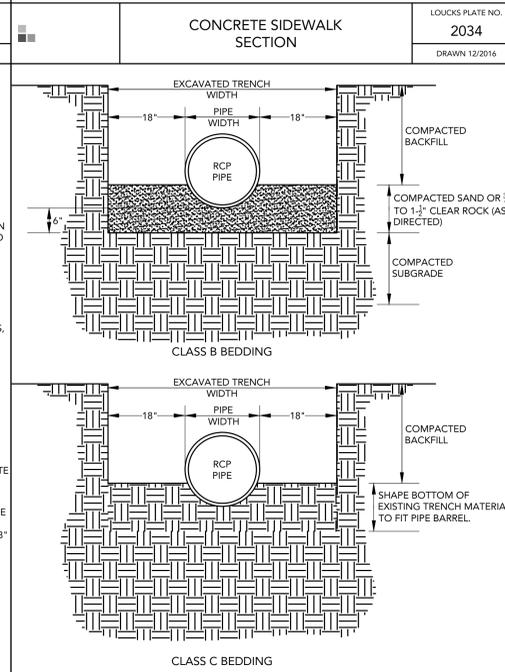
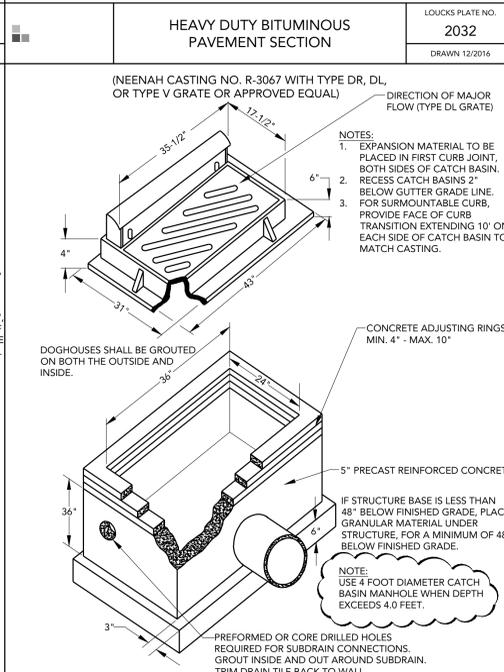
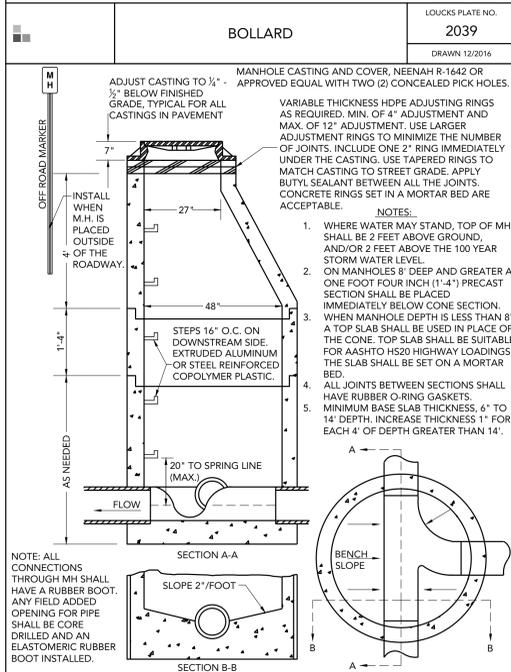
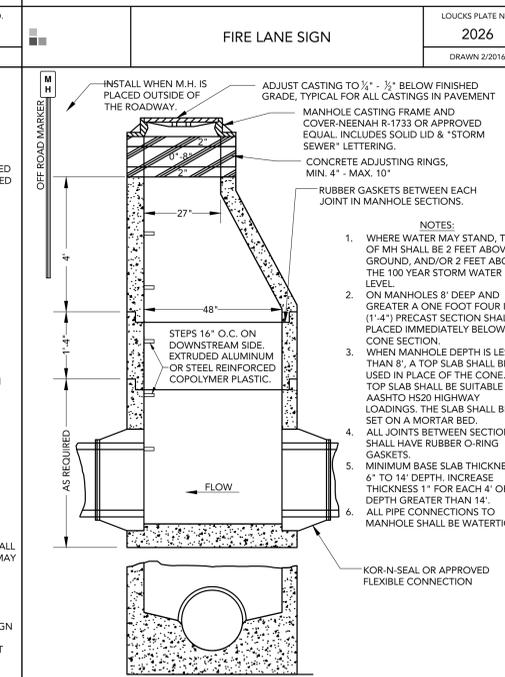
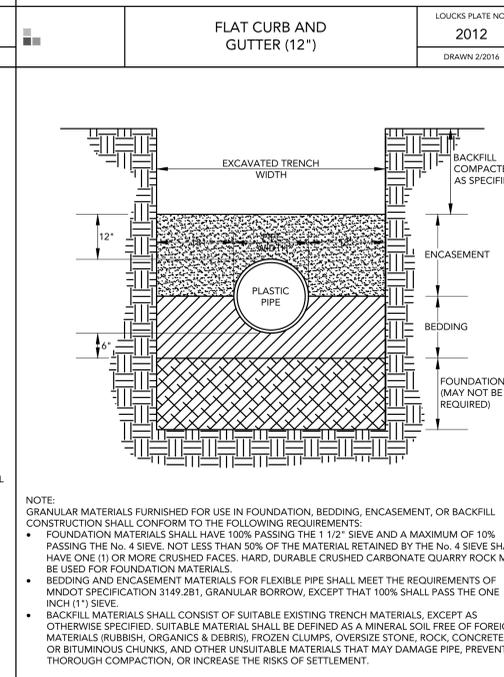
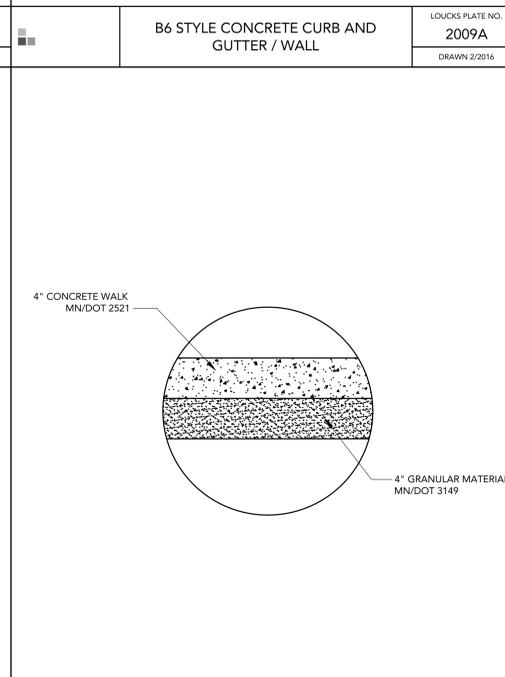
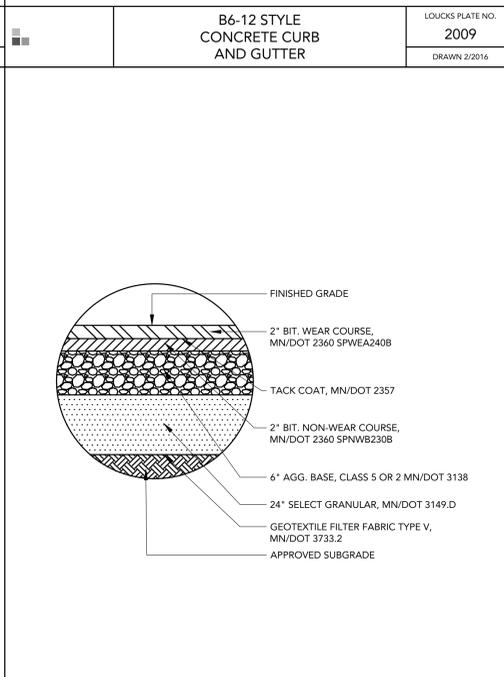
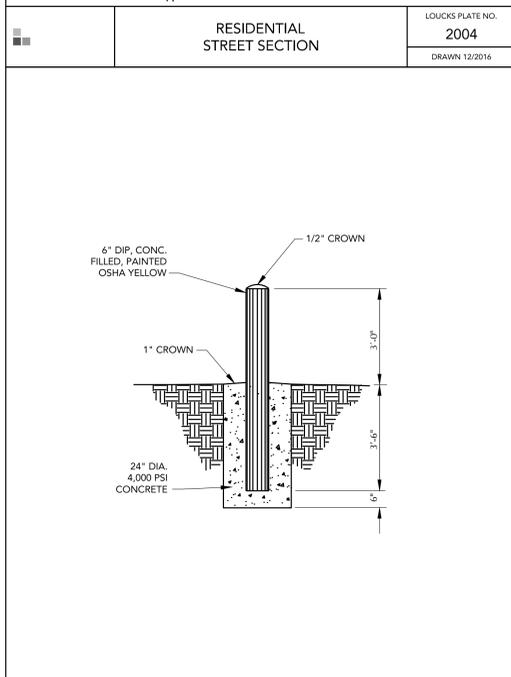
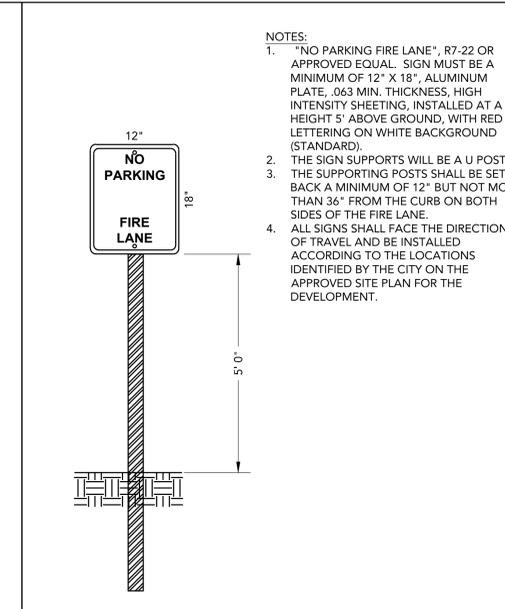
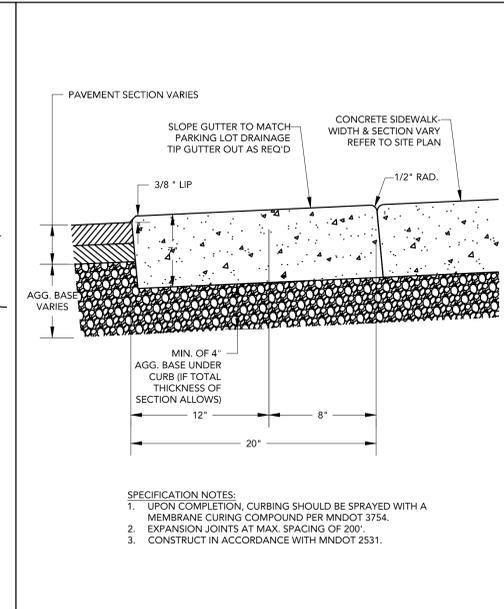
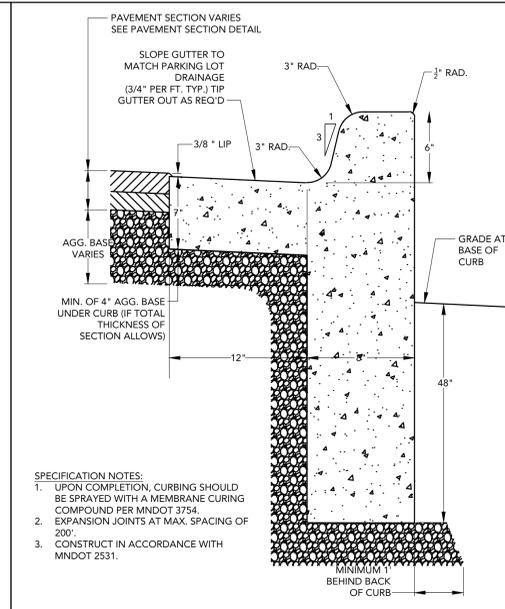
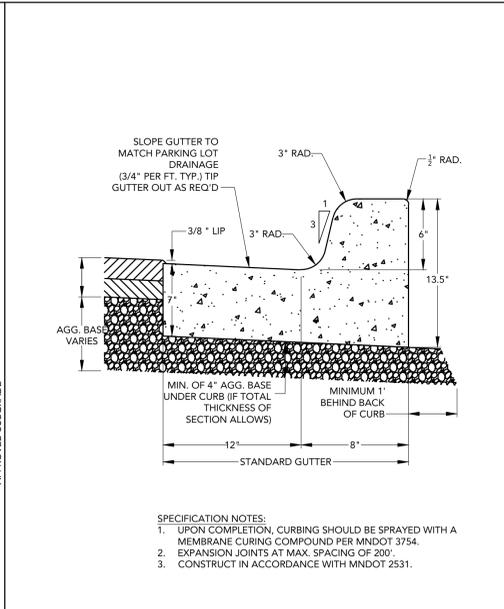
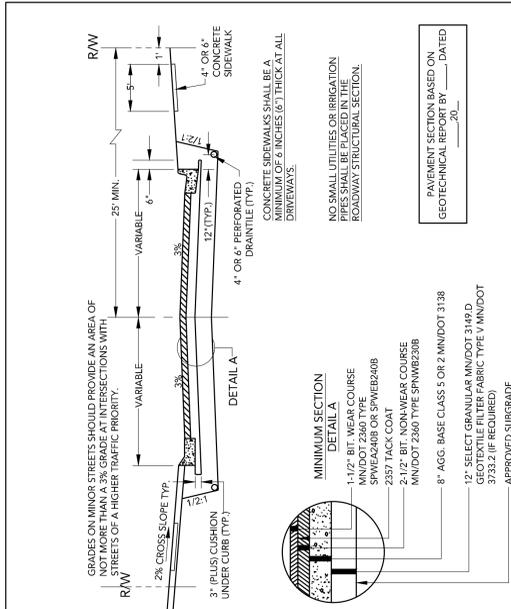
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C4-2	STORM SEWER
C8-1-C8-3	DETAIL SHEET
L2-1	LANDSCAPE PLAN
L4-1	LANDSCAPE DETAILS



WARNING:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.
 THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

STORM SEWER PLAN C4-2



325 BLAKE ROAD N

HOPKINS, MN

ALATUS LLC

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MINNEAPOLIS, MN 55402

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Michael J. St. Martin PE
License No. 24440
Date 12-21-2023

QUALITY CONTROL

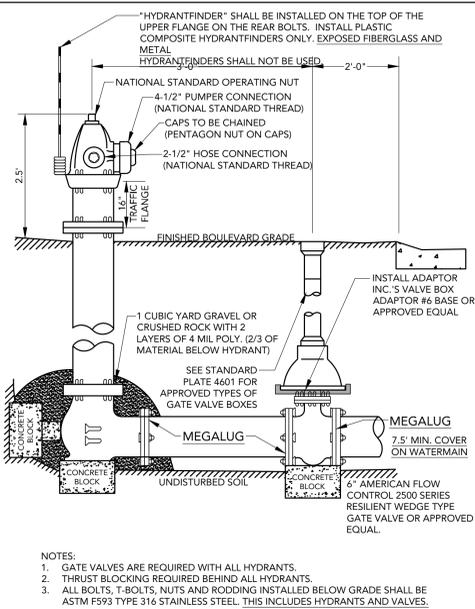
Loecks Project No. 20503T
Project Lead MJS
Drawn By MJS
Checked By MJS
Review Date 12-21-2023

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L4-1 LANDSCAPE DETAILS

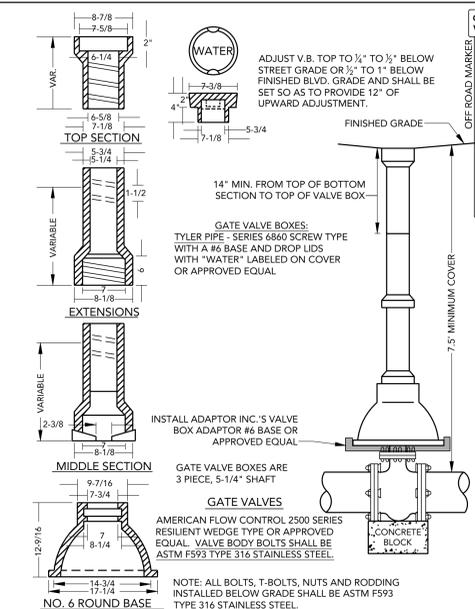
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C8-1



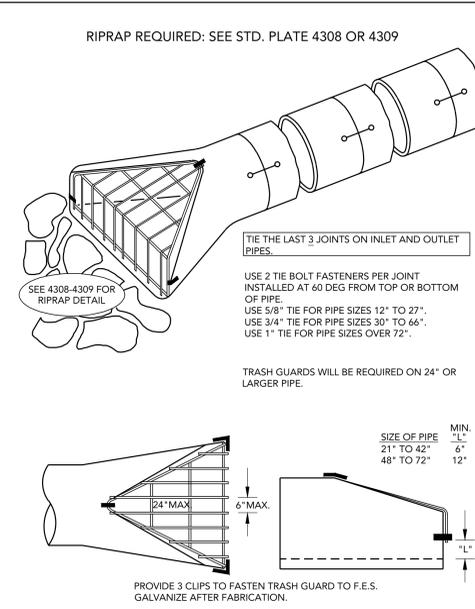
HYDRANT AND GATE VALVE INSTALLATION

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DRAWN 2/2016



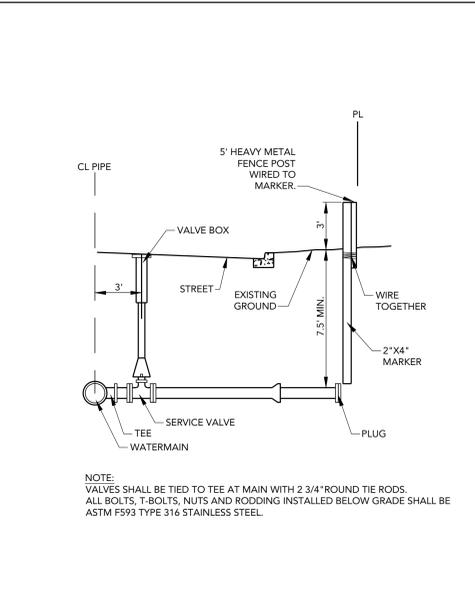
GATE VALVE AND BOX INSTALLATION

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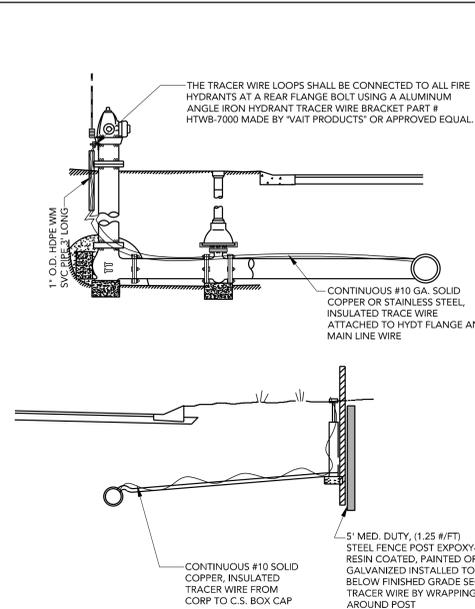
TRASH GUARD RCP APRON

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DRAWN 2/2016



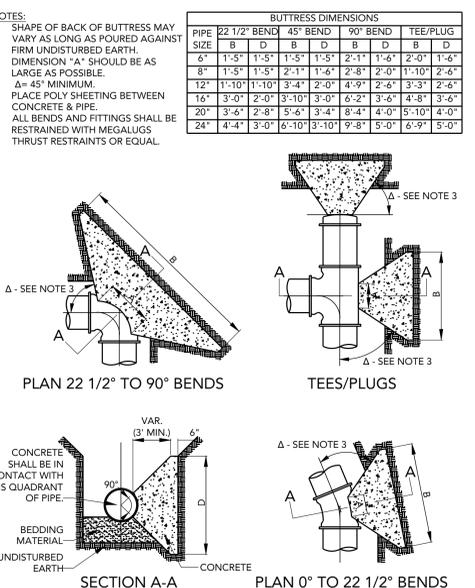
LARGE WATER SERVICE CONNECTION

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DRAWN 2/2016



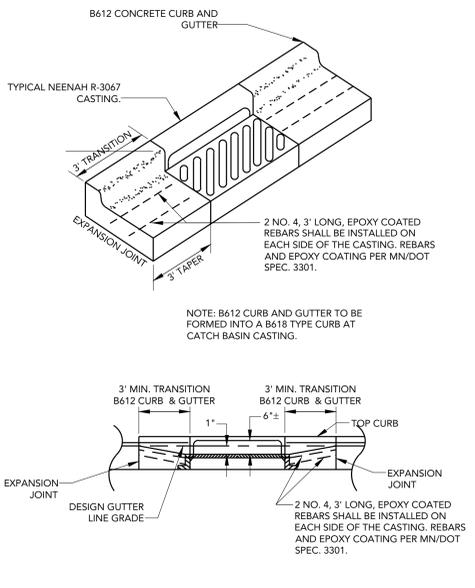
TRACER WIRE FOR WATER SERVICE / HYDRANT LEAD

LOUCKS PLATE NO. 4605
DRAWN 2/2016



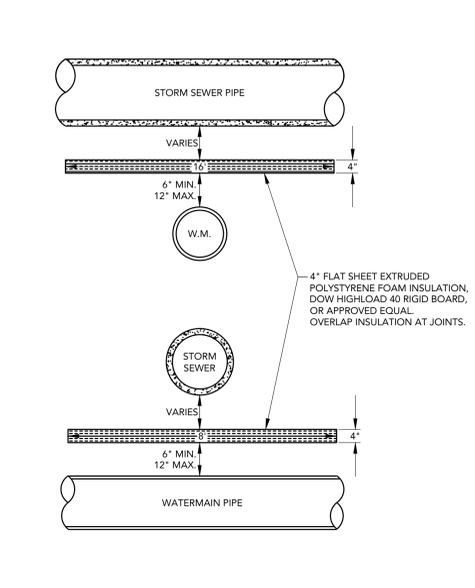
CONCRETE THRUST BLOCKING

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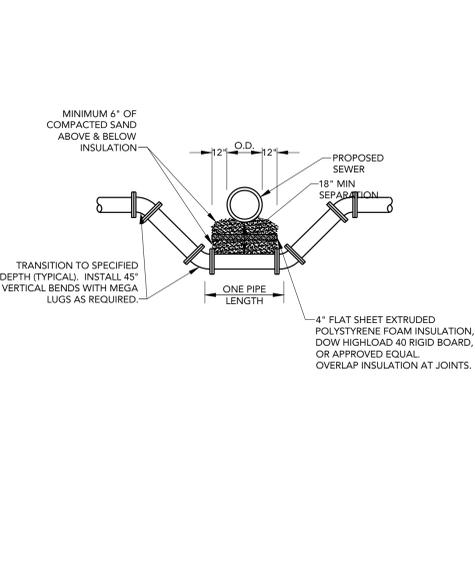
CATCH BASIN CASTING INSTALLATION B612 TO CASTING

LOUCKS PLATE NO. 4312
DRAWN 12/2016



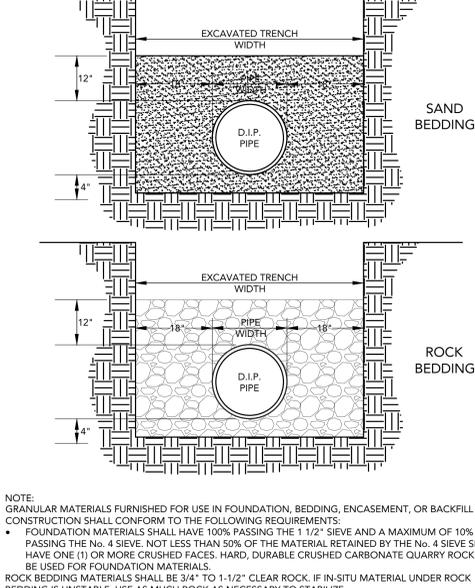
TYPICAL WATERMAIN INSULATION

LOUCKS PLATE NO. 4608
DRAWN 2/2016



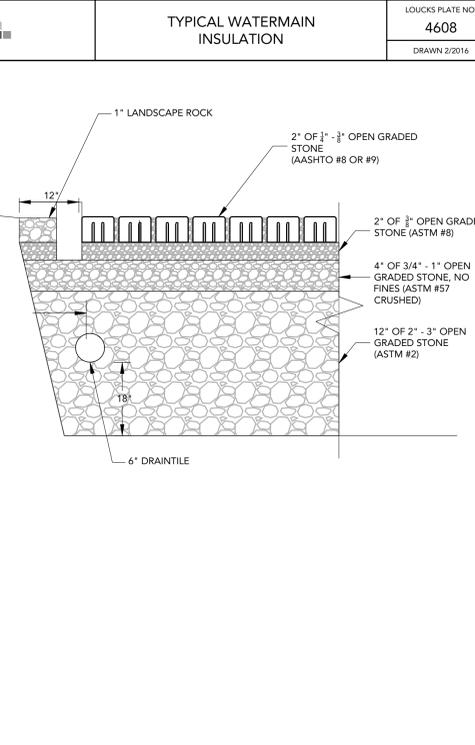
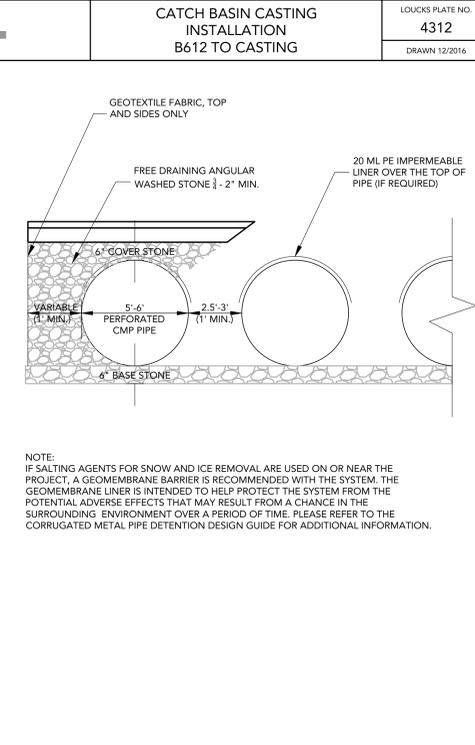
WATERMAIN UNDER SEWER DEFLECTION

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DRAWN 2/2016

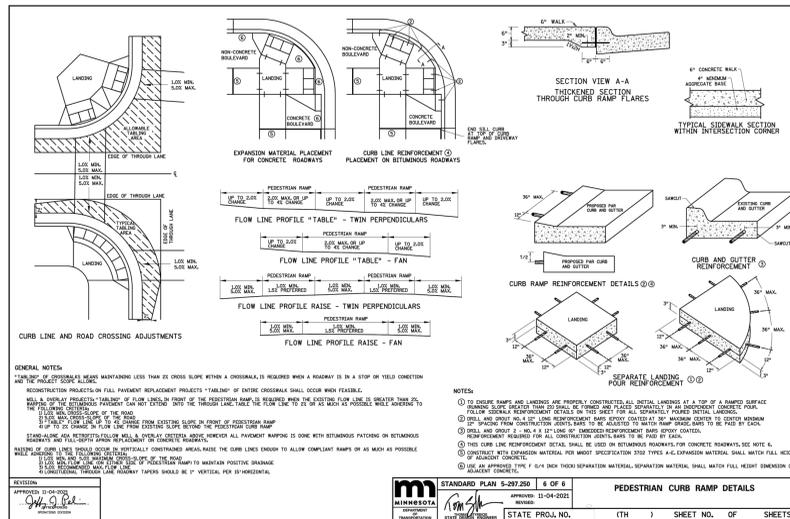
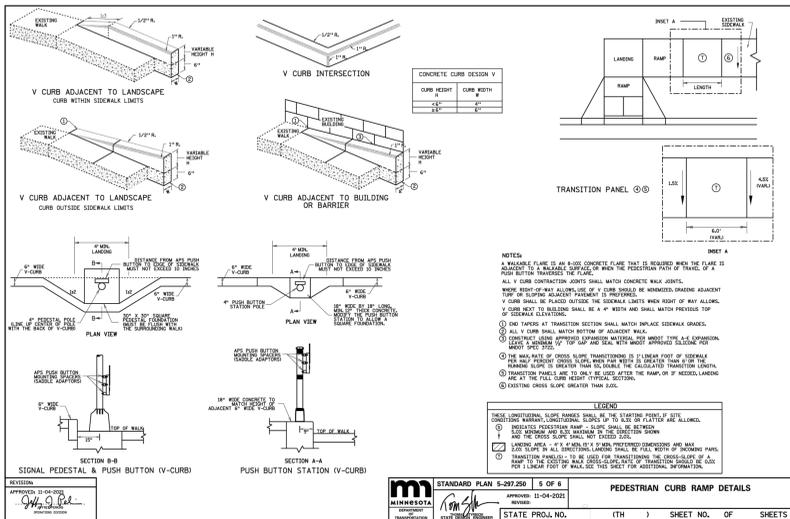
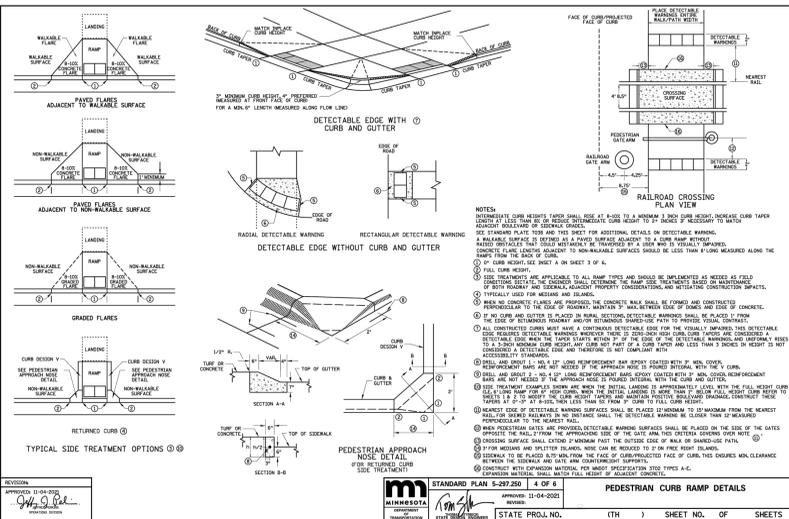
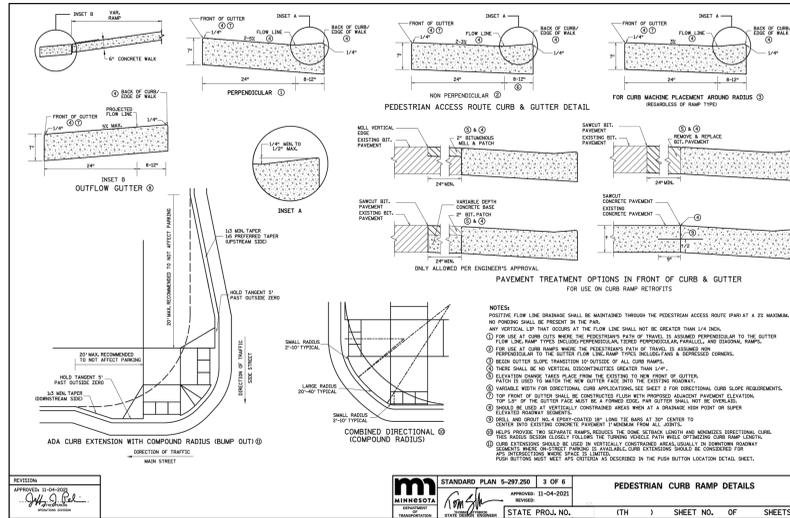
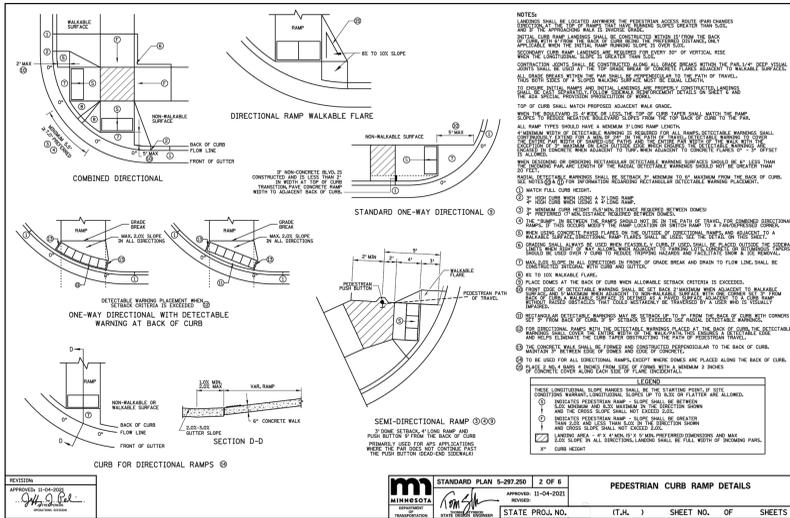
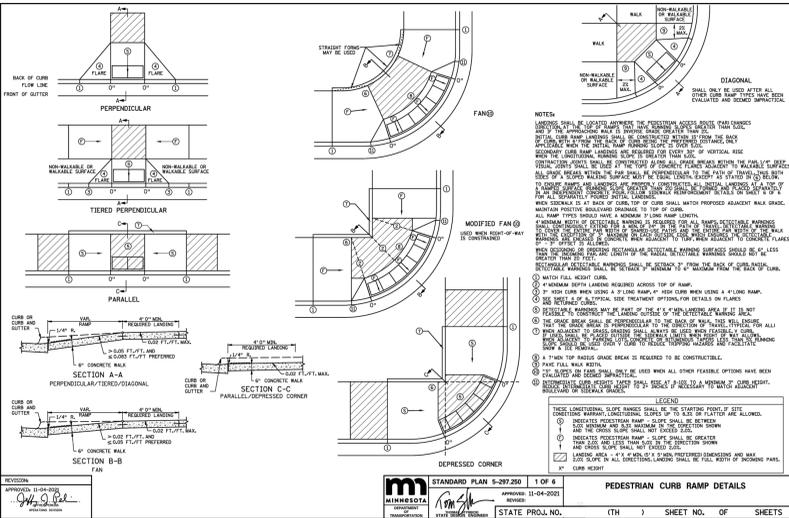


DUCTILE IRON PIPE BEDDING

LOUCKS PLATE NO. 4615
DRAWN 2/2016



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NO.	DATE	DESCRIPTION
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PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Michael J. St. Martin PE
Date 12-21-2023

License No. 24440

Date 12-21-2023

QUALITY CONTROL

Project No. 20503T
Project Lead MJS
Drawn By NWC
Checked By MJS
Review Date 12-21-2023

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LANDSCAPE INSTALLATION:

GENERAL NOTES

COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.

NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.

ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS. REMOVE ALL FLAGGING AND LABELS FROM PLANTS.

IF THE LANDSCAPE CONTRACTOR IS CONCERNED OR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER SITE CONDITION WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR GUARANTEE, THE CONTRACTOR MUST BRING THESE DEFICIENCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND / OR INSTALLATION.

PROTECT ALL EXISTING TREES ON SITE SCHEDULED TO REMAIN. IF EXISTING TREES ARE DAMAGED IN ANY MANNER, ABOVE OR BELOW GROUND IN THE ROOT SYSTEM, AN ASPHALTIC TREE PRUNING PAINT SHOULD BE APPLIED IMMEDIATELY AFTER WOUNDING.

SOIL & GROUND COVER

ALL PLANTING AREAS RECEIVING PLANTED GROUND COVER, PERENNIALS, ANNUALS, AND/OR VINES SHALL RECEIVE A MINIMUM OF 24" DEPTH OF PLANTING SOIL (MNDOT 3877 - 2B OR EQUAL).

WHERE SOD / SEED ABUTS PAVED SURFACES, FINISHED GRADE OF SOD / SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.

SEED ALL AREAS DISTURBED DUE TO GRADING OTHER THAN THOSE AREAS NOTED TO RECEIVE SOD. SEED SHALL BE INSTALLED AND MULCHED AS PER MNDOT SPECS.

SOD ALL DESIGNATED AREAS DISTURBED DUE TO GRADING. SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS. ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES, THE SOD SHALL BE STAKED TO THE GROUND.

LANDSCAPE CONTRACTOR SHALL VERIFY THAT SOIL AND COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AT AND AROUND THE BUILDING SITE.

PLANTINGS INFO

ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN. UNLESS NOTED OTHERWISE, ALL SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED MINIMUM SHRUB HEIGHT OR WIDTH. ORNAMENTAL TREES SHALL HAVE NO V KNOTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' ABOVE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 5' ABOVE FINISHED GRADE.

ANY CONIFEROUS TREE PREVIOUSLY PRUNED FOR CHRISTMAS TREE SALES SHALL NOT BE USED. ALL CONIFEROUS TREES SHALL BE FULL FORM, NATURAL TO THE SPECIES, WITHOUT PRUNING.

PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR / ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR / ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR / ROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.

ALL PROPOSED PLANTS SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE LANDSCAPE ARCHITECT MUST BE NOTIFIED.

PLAN TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.

NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND / OR QUOTATION.

WRAPPING MATERIAL SHALL BE CORRUGATED PVC PIPING 1" GREATER IN CALIPER THAN THE TREE BEING PROTECTED OR QUALITY, HEAVY, WATERPROOF CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAP ALL DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO 12-1 AND REMOVE ALL WRAPPING AFTER 5-1.

FERTILIZER

ALL PLANT MATERIALS SHALL BE FERTILIZED UPON INSTALLATION WITH A 27-3-3 SLOW RELEASE FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS. PLANTS MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 27-3-3 AT 6 OZ PER 2.5" CALIPER PER TREE AND 3 OZ PER SHRUB WITH AN ADDITIONAL APPLICATION OF 27-3-3 THE FOLLOWING SPRING IN THE TREE SAUCER.

EDGING FOR PLANTING BEDS

BLACK METAL EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS, AND ANNUALS WHERE BED MEETS SOD / SEED UNLESS NOTED OTHERWISE.

PLANTING BED PREPARATION

ALL ANNUAL AND PERENNIAL PLANTING BEDS TO RECEIVE 3" DEEP SHREDDED HARDWOOD / ROCK MULCH WITH NO WEED BARRIER.

ALL SHRUB BED MASSINGS TO RECEIVE 3" DEEP SHREDDED HARDWOOD / ROCK MULCH AND FIBER MAT WEED BARRIER.

ALL TREES NOT IN PLANTING BEDS TO RECEIVE 4" DEEP SHREDDED HARDWOOD / ROCK MULCH RING WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.

SPREAD GRANULAR PRE EMERGENT HERBICIDE (PREEN OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS UNDER ALL MULCHED AREAS.

MAINTENANCE STRIPS TO HAVE EDGER AND MULCH AS SPECIFIED / INDICATED ON DRAWING OR IN SPECIFICATION.

INSPECTION AND WARRANTY

CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE OWNER ACCEPTANCE INSPECTION OF ALL LANDSCAPE AND SITE IMPROVEMENTS.

CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE THE OWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZATION AND DISEASE / PEST CONTROL.

CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE (1) CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE.

WARRANTY (ONE (1) FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

TIMING OF INSTALLATION

UNLESS NOTED OTHERWISE THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SEED / SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.

FALL SODDING IS GENERALLY ACCEPTABLE FROM AUGUST 15 - NOVEMBER 1. FALL SEEDING FROM AUGUST 15 - SEPTEMBER 15; DORMANT SEEDING IN THE FALL SHALL NOT OCCUR PRIOR TO NOVEMBER 1. FALL CONIFEROUS PLANTING MAY OCCUR FROM AUGUST 15 - OCTOBER 1 AND DECIDUOUS PLANTING FROM THE FIRST FROST UNTIL NOVEMBER 15. PLANTING OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

TREES ARE NOT TO BE PRUNED, REMOVED OR TRANSPLANTED BETWEEN APRIL 15 AND JULY 1. NOTIFY LANDSCAPE ARCHITECT IF THESE DATES ARE UNAVOIDABLE.

IRRIGATION NOTES:

VERIFY EXISTING / PROPOSED IRRIGATION SYSTEM LAYOUT AND CONFIRM COMPLETE LIMITS OF IRRIGATION PRIOR TO SUPPLYING SHOP DRAWINGS.

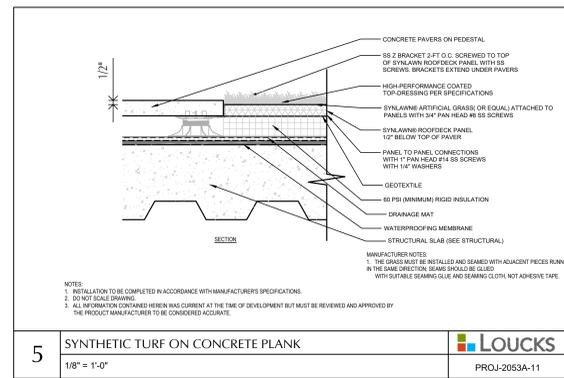
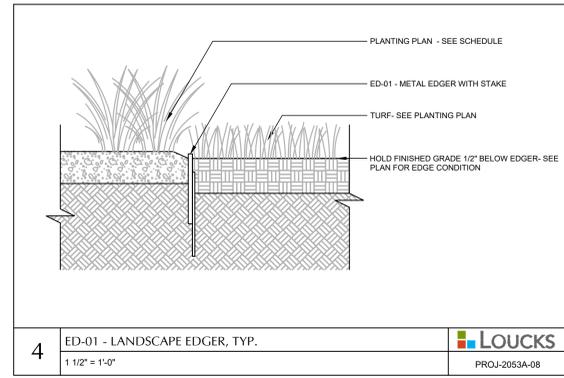
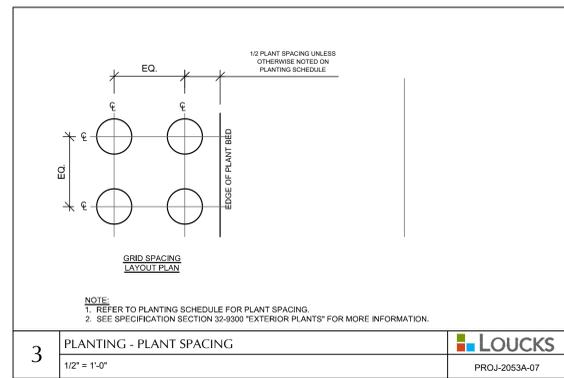
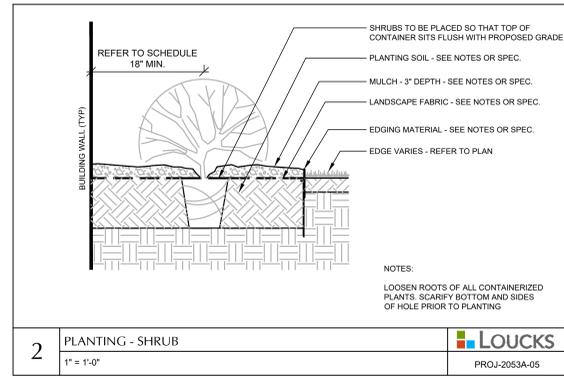
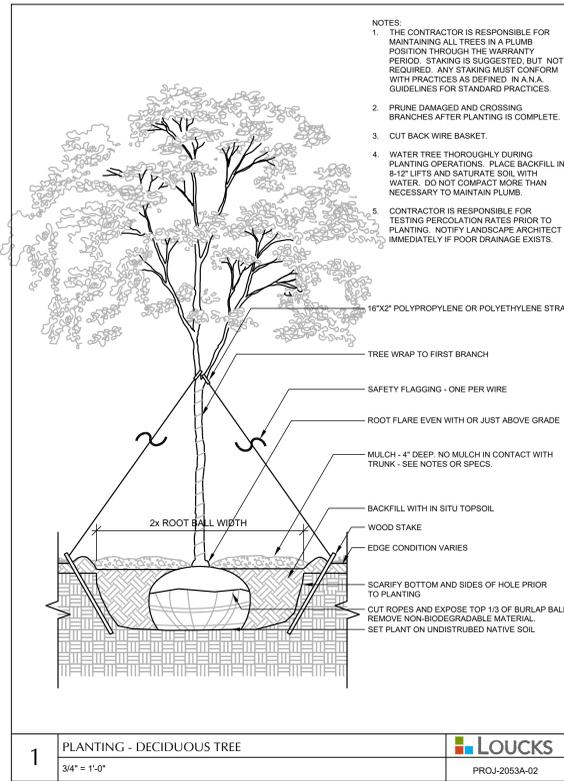
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION AS A PART OF THE SCOPE OF WORK WHEN BIDDING. THESE SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ORDER AND / OR INSTALLATION. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL SODDED / SEEDED AND PLANTED AREAS ARE IRRIGATED PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND ABUTTING BUILDING FOUNDATION.

THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN IRRIGATION SCHEDULE APPROPRIATE TO THE PROJECT SITE CONDITIONS AND TO PLANT MATERIAL GROWTH REQUIREMENTS.

IRRIGATION SYSTEM IS NOT TO SPRINKLE ACROSS PAVEMENT NOR SHALL THE SYSTEM SPRINKLE THE BUILDING.

THE SYSTEM SHALL INCORPORATE A RAIN SENSOR INTO IRRIGATION SYSTEM.

PLANTINGS OUTSIDE THE LIMITS OF IRRIGATION ARE TO BE WATERED REGULARLY UNTIL PLANTING / SOD / SEED HAS BEEN ESTABLISHED.



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PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

License No. Kevin V. Koen - LA 53757
Date 12-21-2023

QUALITY CONTROL

Loucks Project No. 20503T
Project Lead NWE
Drawn By KVK
Checked By NWE
Review Date 12-21-2023

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