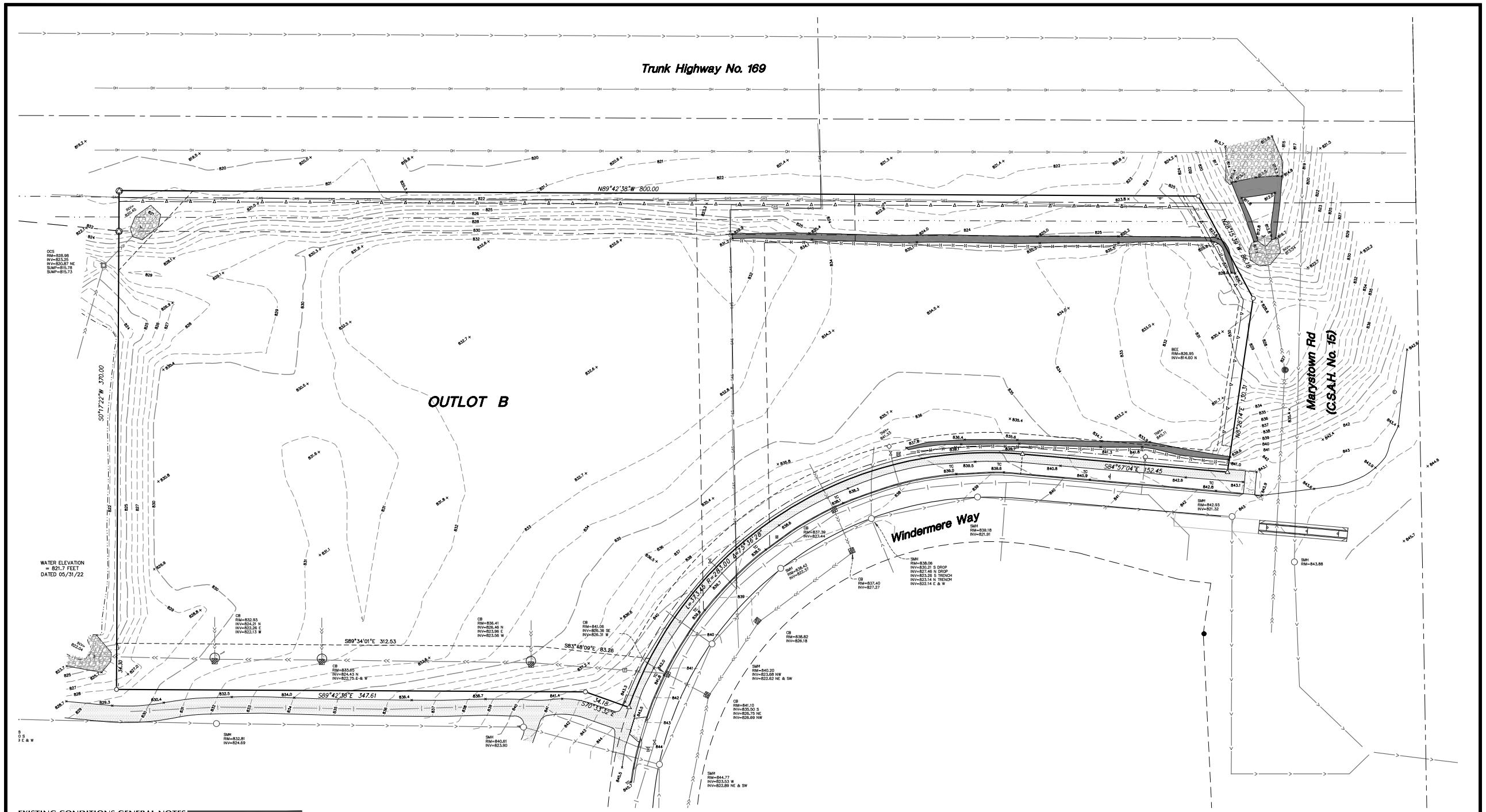


EXISTING CONDITIONS GENERAL NOTES

1. THE INFORMATION SHOWN ON THIS EXISTING CONDITIONS PLAN WAS PREPARED FROM AN ALTA/NSPS LAND TITLE SURVEY PREPARED BY LOUCKS. UTILITY INFORMATION SHOWN ON THIS PLAN, SUCH AS SANITARY SEWER, WATERMAIN, STORM SEWER, FORCEMAIN, ETC. WAS PROVIDED BY THE CITY OF SHAKOPEE RECORD PLANS.

2. THE BEARINGS FOR THIS SURVEY ARE BASED ON THE SCOTT COUNTY COORDINATE SYSTEM NAD 83 (1996 ADJUST).

3. BENCHMARK: TOP NUT HYDRANT LOCATED NEAR THE SOUTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION = 945.11 FEET (NGVD 29)

4. THE GROSS LAND AREA IS 241,222 +/- SQUARE FEET OR 5.54 +/- ACRES.

5. WE HAVE SHOWN BURIED STRUCTURES AND UTILITIES ON AND/OR SERVING THE SITE TO THE BEST OF OUR ABILITY, SUBJECT TO THE FOLLOWING RESTRICTIONS:
   A. UTILITY OPERATORS DO NOT CONSISTENTLY RESPOND TO LOCATE REQUESTS THROUGH THE GOPHER STATE ONE CALL SERVICE FOR BOUNDARY AND LOCATION PURPOSES SUCH AS THIS.
   B. THOSE UTILITY OPERATORS THAT DO RESPOND, OFTEN WILL NOT LOCATE SERVICES FROM THE MAIN LINE TO THE CUSTOMER'S STRUCTURE OR FACILITY - THEY CONSIDER THOSE SEGMENTS PRIVATE INSTALLATIONS THAT ARE OUTSIDE OF THEIR JURISDICTION. IF A PRIVATE SERVICE TO AN ADJOINER'S SITE CROSSES THIS SITE OR A SERVICE TO THIS SITE CROSSES AN ADJOINER, IT MAY NOT BE LOCATED SINCE MOST OPERATORS WILL NOT MARK SUCH "PRIVATE" SERVICES.
   C. SNOW AND ICE CONDITIONS DURING WINTER MONTHS MAY OBSCURE OTHERWISE VISIBLE EVIDENCE OF A BURIED STRUCTURE OR UTILITY.
   D. MAPS PROVIDED BY UTILITY OPERATORS, EITHER ALONG WITH A FIELD LOCATION OR IN LIEU OF SUCH A LOCATION, ARE VERY OFTEN INACCURATE OR INCONCLUSIVE. MAPS PROVIDED BY UTILITY OPERATORS ARE VERY OFTEN AT A VERY SMALL SCALE, OR NO SCALE.
   E. EXTREME CAUTION MUST BE EXERCISED BEFORE AN EXCAVATION TAKES PLACE ON OR NEAR THE SITE. BEFORE DIGGING, YOU ARE REQUIRED BY LAW TO NOTIFY GOPHER STATE ONE CALL AT LEAST 48 HOURS IN ADVANCE AT 651-454-0002.
   F. UTILITY INFORMATION SHOWN ON THIS PLAN, SUCH AS NATURAL GAS, ELECTRIC LINES, TELEPHONE LINES, FIBEROPTIC LINES, CABLE TELEVISION LINES, UNDERGROUND PIPELINES, ETC. WAS SUPPLIED OR LOCATED BY GOPHER STATE ONE CALL, TICKET NUMBERS 161264910 & 161270014.

6. THIS PROPERTY IS CONTAINED IN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FLOOD MAP NO. 27139C0018E, EFFECTIVE DATE OF 2/12/2021.

LEGEND

- FOUND 1/2 INCH OPEN IRON MONUMENT UNLESS SHOWN OTHERWISE
- SET 1/2 INCH X 14 INCH IRON MONUMENT, MARKED "LS 48988"
- CATCH BASIN
- STORM MANHOLE
- SANITARY MANHOLE
- HYDRANT
- GATE VALVE
- ELECTRIC TRANSFORMER
- ELECTRIC METER
- GAS METER
- GUY WIRE
- HAND HOLE
- LIGHT POLE
- POWER POLE
- TELEPHONE PEDESTAL
- SIGN
- PARKING STALL COUNT
- DISABLED PARKING STALL
- SCHEDULE B II ITEM

- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- SANITARY SEWER SERVICE
- WATER SERVICE
- UNDERGROUND ELECTRIC
- UNDERGROUND FIBER OPTIC
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE
- OVERHEAD UTILITY
- CHAIN LINK FENCE
- CONCRETE CURB
- RETAINING WALL
- CONCRETE
- NO PARKING
- EXISTING BUILDING
- CONTOUR
- SPOT ELEVATION
- TREE LINE
- CONIFEROUS TREE
- PI PINE
- DECIDUOUS TREE
- AS ASH
- MA MAPLE
- TR TREE (GEN)

NOTE:
EXISTING CONDITIONS INFORMATION SHOWN IS FROM A BOUNDARY & TOPOGRAPHIC SURVEY PROVIDED BY LOUCKS, DATED JUNE, 2022.

DESCRIPTION OF PROPERTY SURVEYED

THAT PART OF THE SE1/4 OF SECTION 29, TOWNSHIP 115, RANGE 21 SCOTT COUNTY, MN.

PROJECT BENCHMARK

SITE BENCHMARK: TOP NUT OF HYDRANT LOCATED AT THE SOUTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION = 945.11 (NGVD 29)

CALL BEFORE YOU DIG!
Gopher State One Call
TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

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0 30 60
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RSP Architects
1220 Marshall Street NE
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Minnesota 55413-1036
612.677.7100
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ENVIRONMENTAL
7200 Hemlock Lane, Suite 300
Maple Grove, MN 55369
763.424.5505
www.loucksinc.com
LOUCKS PROJECT NO. 22246.0A

Certification

NOT FOR CONSTRUCTION GMP PRICING SET 18.11.22

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.

Name	Samuel Trebesch - PE
License Number	56088
Date Signed	XX/XX/2022

Project For

ROERS

SHAKOPEE MULTIFAMILY

Project No.	22246.0A
Drawn By	JDL
Checked By	SRT
Date	11/18/2022

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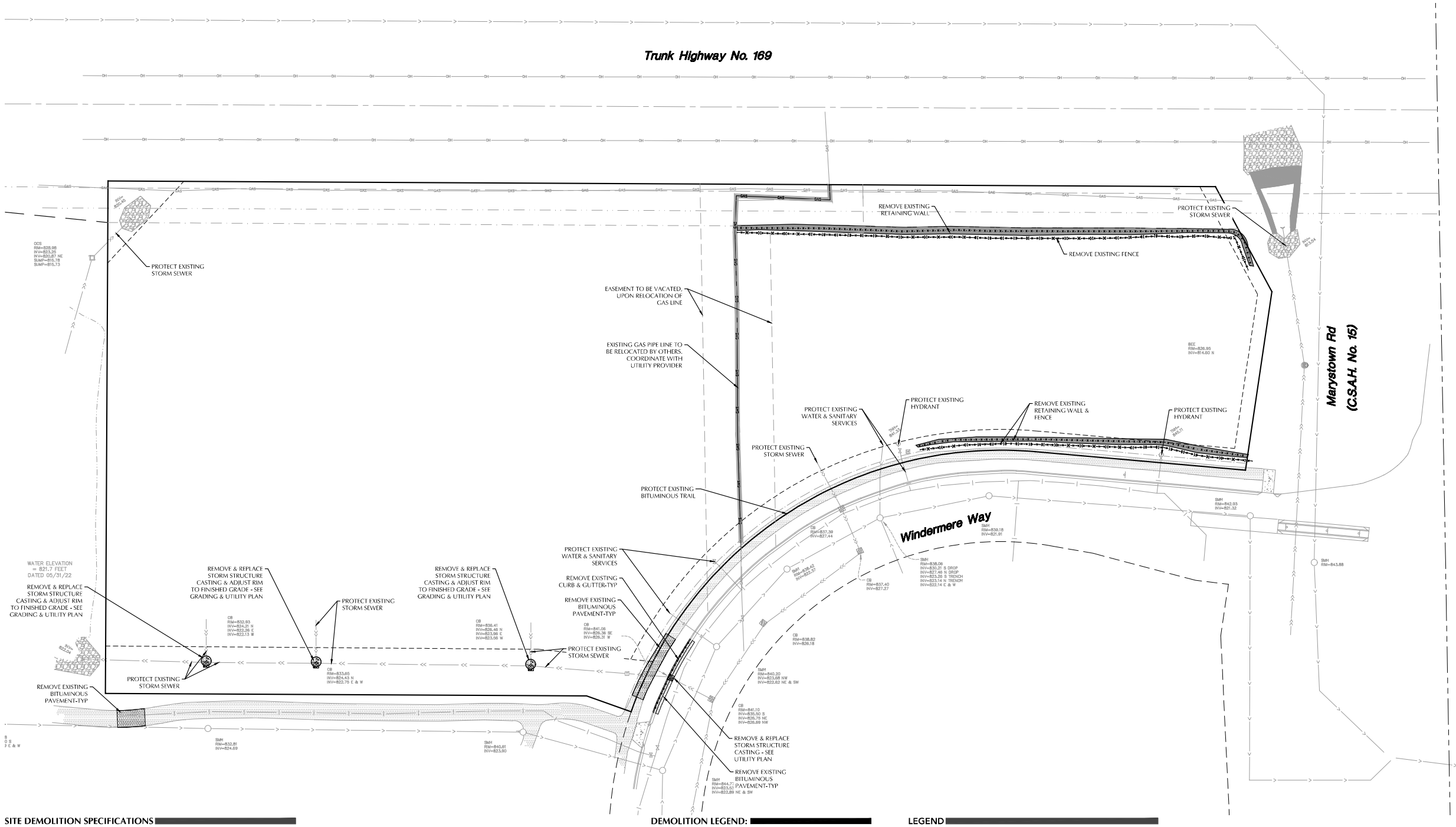
Sheet Issues / Revisions

No.	Date	Description
	08/24/2022	SD SET
	09/14/2022	PUD AMENDMENT SUBMITTAL
	09/30/2022	DD PACKAGE
	11/18/2022	GMP PRICING SET

EXISTING CONDITIONS

C1.1

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SITE DEMOLITION SPECIFICATIONS

1. CONTRACTOR SHALL REMOVE AND/OR RELOCATE EXISTING PRIVATE UTILITIES AS NECESSARY. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES.
2. CONTRACTOR SHALL PROTECT SURFACE AND SUBSURFACE FEATURES NOT NOTED FOR REMOVAL.
3. 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.
4. 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).
5. CONTRACTOR SHALL REMOVE ALL SITE SURFACE FEATURES WITHIN REMOVAL LIMITS UNLESS OTHERWISE NOTED.
6. BITUMINOUS PAVEMENT REMOVALS ARE TO BE MADE TO A VERTICAL SAW CUT OR TO A NEAT MILLED EDGE.
7. 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.
8. 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.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL SIGNS, MAILBOXES, ETC.
10. 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.
11. CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE CITY, COUNTY, AND/OR MNDOT.
12. CONTRACTOR TO COORDINATE ALL WORK WITHIN THE ADJACENT PROPERTIES WITH THE OWNER AND ADJACENT PROPERTY OWNER.
13. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE POWER UTILITY OWNER(S) TO DISCUSS DISCONNECTS, RELOCATIONS, & ADJUSTMENTS.
14. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE GAS UTILITY OWNER(S) TO DISCUSS DISCONNECTS, RELOCATIONS, & ADJUSTMENTS.

DEMOLITION LEGEND:

- REMOVE EXISTING BITUMINOUS PAVING
- REMOVE EXISTING CONCRETE PAVING, SIDEWALKS, ETC.
- REMOVE EXISTING GRAVEL PAVEMENT
- 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

LEGEND

- FOUND 1/2 INCH OPEN IRON MONUMENT UNLESS SHOWN OTHERWISE
- SET 1/2 INCH X 14 INCH IRON MONUMENT, MARKED "LS 48988"
- CATCH BASIN
- STORM MANHOLE
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- GAS METER
- GUY WIRE
- HAND HOLE
- LIGHT POLE
- POWER POLE
- TELEPHONE PEDESTAL
- SIGN
- (2) PARKING STALL COUNT
- DISABLED PARKING STALL
- [1] SCHEDULE B ITEM
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- S — SANITARY SEWER SERVICE
- W — WATER SERVICE
- UE — UNDERGROUND ELECTRIC
- FO — UNDERGROUND FIBER OPTIC
- GAS — UNDERGROUND GAS
- TEL — UNDERGROUND TELEPHONE
- OH — OVERHEAD UTILITY
- CHAIN LINK FENCE
- CONCRETE CURB
- RETAINING WALL
- CONCRETE
- NO PARKING
- EXISTING BUILDING
- 972 — CONTOUR
- x 972.5 — SPOT ELEVATION
- TREE LINE
- CONIFEROUS TREE
- PI — PINE
- DECIDUOUS TREE
- AS — ASH
- MA — MAPLE
- TR — TREE (GEN)

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PROJECT BENCHMARK

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Certification

NOT FOR CONSTRUCTION GMP PRICING SET 18.11.22

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.

Name	Samuel Trebesch - PE
License Number	56088
Date Signed	XX/XX/2022

Project For

ROERS

SHAKOPEE MULTIFAMILY

Project No.	22246.0A
Drawn By	JDL
Checked By	SRT
Date	11/18/2022

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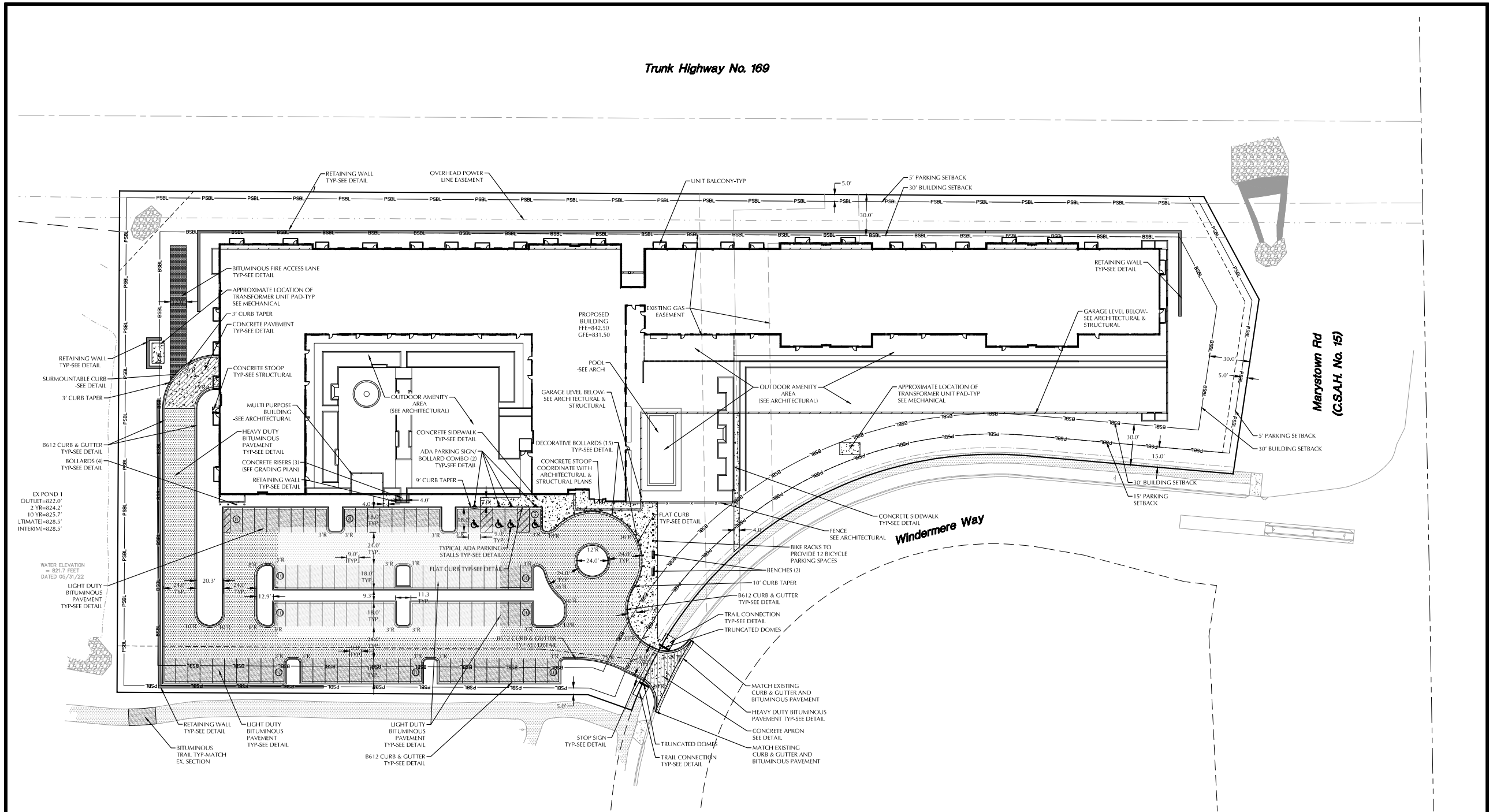
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Sheet Issues / Revisions

No.	Date	Description
	09/24/2022	SD SET
	09/14/2022	PUD AMENDMENT SUBMITTAL
	09/30/2022	DD PACKAGE
	11/18/2022	GMP PRICING SET

DEMOLITION PLAN

C1.2



NOTE:
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DEVELOPMENT AND DESIGN STANDARDS

YARD (BUILDING) SETBACKS:

FRONT	30 FT MINIMUM
SIDE	20 FT MINIMUM
REAR	30 FT MINIMUM

OFF STREET PARKING SETBACKS:

FRONT	15 FT MINIMUM
SIDE	5 FT MINIMUM
REAR	5 FT MINIMUM

OFF-STREET PARKING AND DESIGN STANDARD REQUIREMENTS

MINIMUM PARKING LAYOUT DIMENSIONS (90 DEGREE PATTERN):

PARKING SPACE WIDTH	= 9 FT
PARKING SPACE LENGTH	= 18 FT
MANEUVERING LANE WIDTH	= 24 FT

OFF-STREET PARKING CALCULATIONS

EXISTING PARKING: 0 STALLS
PROPOSED SURFACE PARKING PROVIDED: 91 STALLS
PROPOSED GARAGE PARKING PROVIDED: 313 STALLS
PROPOSED CONSTRUCTED STALLS: 404 STALLS
PROPOSED TOTAL PARKING PROVIDED: 404 STALLS
TOTAL REQUIRED PARKING: 416 STALLS

ACCESSIBLE PARKING

SURFACE ACCESSIBLE PARKING:	4 STALLS
GARAGE ACCESSIBLE PARKING:	8 STALLS
TOTAL	**12 STALLS**

REQUIRED SURFACE ACCESSIBLE PARKING:	4 STALLS*
REQUIRED GARAGE ACCESSIBLE PARKING:	8 STALLS**

**REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES FOR 76 TO 100 STALLS*
***REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES FOR 301 TO 400 STALLS*

SIGNAGE AND STRIPING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SIGNAGE AND STRIPING AS SHOWN ON THIS PLAN.
2. CONTRACTOR SHALL PAINT ALL ACCESSIBLE STALLS, LOGOS AND CROSS HATCH LOADING AISLES WITH WHITE PAVEMENT MARKING PAINT, 4" IN WIDTH.
3. CONTRACTOR SHALL PAINT ANY/ALL DIRECTIONAL TRAFFIC ARROWS, AS SHOWN, IN WHITE PAINT.
4. ALL SIGNAGE SHALL INCLUDE POST, CONCRETE FOOTING AND STEEL CASING WHERE REQUIRED.
5. ALL SIGNAGE NOT PROTECTED BY CURB, LOCATED IN PARKING LOT OR OTHER PAVED AREAS TO BE PLACED IN STEEL CASING, FILLED WITH CONCRETE AND PAINTED YELLOW. REFER TO DETAIL.
6. ANY/ALL STOP SIGNS TO INCLUDE A 24" WIDE PAINTED STOP BAR IN WHITE PAINT, PLACED AT THE STOP SIGN LOCATION, A MINIMUM OF 4' FROM CROSSWALK IF APPLICABLE. ALL STOP BARS SHALL EXTEND FROM DIRECTIONAL TRANSITION BETWEEN LANES TO CURB.
7. ALL SIGNS TO BE PLACED 18" BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.

PAVEMENT LEGEND

- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- BITUMINOUS FIRE ACCESS LANE
- LIGHT DUTY BITUMINOUS PAVEMENT
- HEAVY DUTY BITUMINOUS PAVEMENT

SITE DATA

CURRENT ZONING:	B-1 HIGHWAY BUSINESS
PROPOSED ZONING:	B-1 HIGHWAY BUSINESS
PROPERTY AREA:	5.54 +/- AC
DISTURBED AREA:	5.54 AC
EXISTING IMPERVIOUS AREA:	0.08 AC (1.5%)
PROPOSED IMPERVIOUS AREA:	3.63 AC (65.5%)
MAX. ALLOWED IMPERVIOUS SURFACE:	3.93 AC (70.9%)*

**PER WINDERMERE OUTLOT IMPERVIOUS SURFACE FIGURE*

SITE NOTES

1. ALL PAVING, CONCRETE CURB, GUTTER AND SIDEWALK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN PER THE DETAIL SHEET(S) AND STATE/LOCAL JURISDICTION REQUIREMENTS.
2. ACCESSIBLE PARKING AND ACCESSIBLE ROUTES SHALL BE PROVIDED PER CURRENT ADA STANDARDS AND LOCAL/STATE REQUIREMENTS.
3. ALL CURB DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL UNLESS OTHERWISE NOTED.
5. TYPICAL FULL SIZED PARKING STALL IS 9.0' X 18.0' UNLESS OTHERWISE NOTED.
6. ALL CURB RADII SHALL BE 3.0' UNLESS OTHERWISE NOTED.
7. SEE SITE ELECTRICAL PLAN FOR SITE LIGHTING.
8. BITUMINOUS IMPREGNATED FIBER BOARD TO BE PLACED AT FULL DEPTH OF CONCRETE ADJACENT TO EXISTING STRUCTURES AND BEHIND CURB ADJACENT TO DRIVEWAYS AND SIDEWALKS.

LEGEND

EXISTING		PROPOSED	EXISTING		PROPOSED
CB	CATCH BASIN		DT	DRAINTILE	DT
MH	STORM MANHOLE		SAN	SANITARY SEWER	SAN
FES	FLARED END SECTION		FM	FORCEMAIN	FM
SAN	SANITARY MANHOLE		W	WATERMAIN	W
HYD	HYDRANT		S	SANITARY SEWER SERVICE	S
GV	GATE VALVE		W	WATER SERVICE	W
PIV	POST INDICATOR VALVE		ELE	UNDERGROUND ELECTRIC	ELE
WMH	WATER MANHOLE / WELL		FO	UNDERGROUND FIBER OPTIC	FO
LP	LIGHT POLE		GAS	UNDERGROUND GAS	GAS
PP	POWER POLE		TEL	UNDERGROUND TELEPHONE	TEL
EM	ELECTRIC METER		OH	OVERHEAD UTILITY	OH
GM	GAS METER			FENCE	
TP	TELEPHONE PEDESTAL			CHAIN LINK FENCE	
	SIGN			CONCRETE CURB	
BM	BENCHMARK			RETAINING WALL	
SB	SOIL BORING			CONCRETE	
2	PARKING STALL COUNT	2		NO PARKING	
	ACCESSIBLE PARKING STALL			BUILDING	
	STORM SEWER		972	CONTOUR	
	TREE LINE		x972.5	SPOT ELEVATION	x972.5 1.0%
	PARKING SETBACK LINE	PSBL		DIRECTION OF FLOW	
	BUILDING SETBACK LINE	BSBL			

PROJECT BENCHMARK

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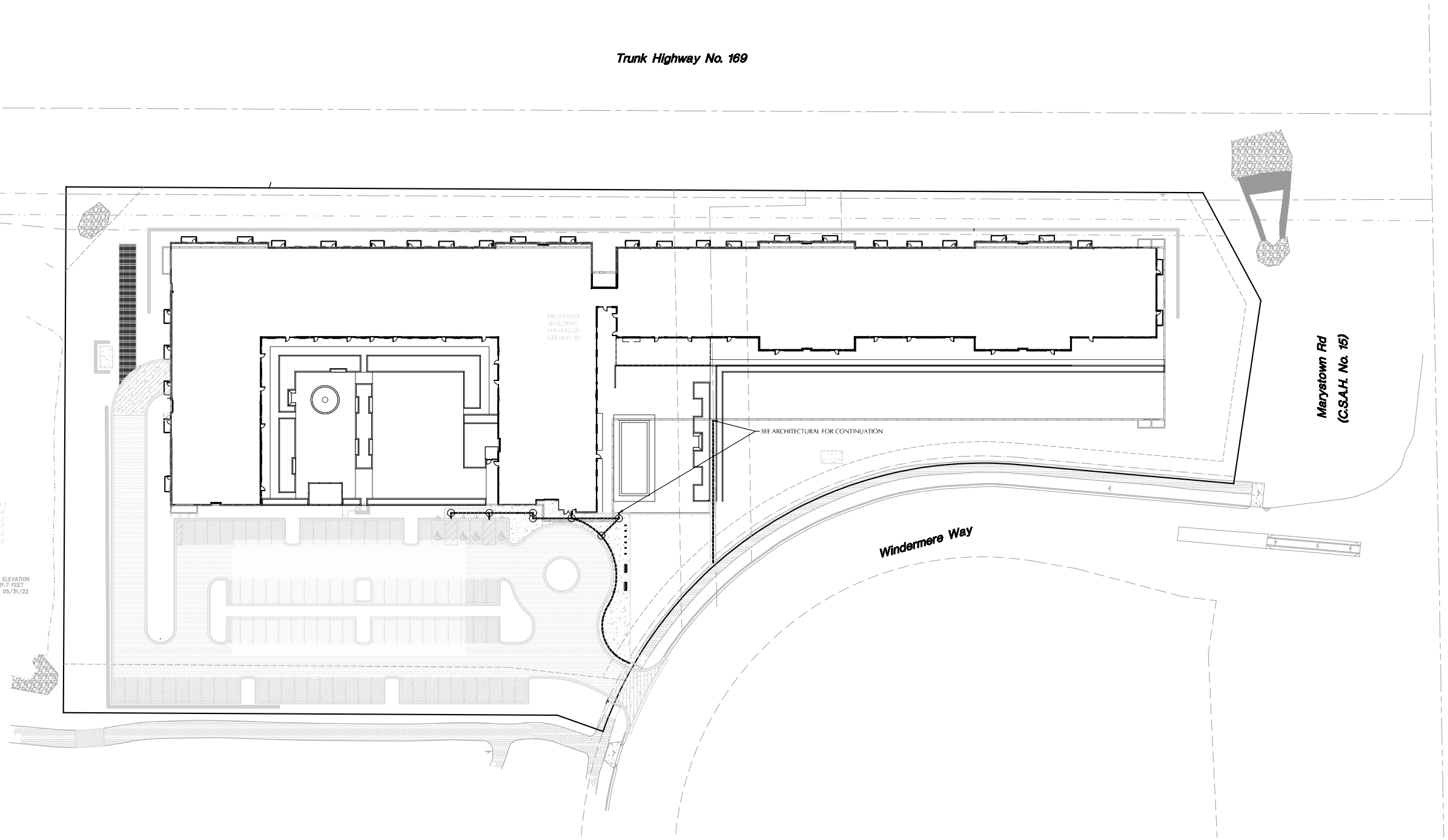
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SITE PLAN

C2.1



ACCESSIBILITY LEGEND

ACCESSIBLE ROUTE

5' ACCESSIBLE TURNING RADIUS

ACCESSIBLE ROUTE NOTES

1. ALL WALKS AND STALLS CONSTRUCTED AS PART OF AN ADA ROUTE SHALL MEET CURRENT ADA STANDARDS, AS WELL AS STATE/LOCAL REQUIREMENTS.
2. WALKS AND STALLS SHALL MEET ADA REQUIREMENTS FOR CROSS AND RUNNING SLOPES UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO NOTIFY ENGINEER IF ANY ADDITIONAL AREAS, WHICH DO NOT MEET REQUIREMENTS, ARE DISCOVERED DURING CONSTRUCTION.
4. SEE DETAIL SHEET(S) FOR GRADING AND ACCESSIBILITY DETAILS.
5. ACCESSIBLE ROUTE REQUIREMENTS:

RUNNING SLOPE:	5.0% MAX (4.5% DESIGN)
CROSS SLOPE:	2.0% MAX (1.5% DESIGN)
RAMP RUNNING SLOPE	8.33% MAX (8.0% DESIGN)
STALL/ACCESS AISLE SLOPE:	2.0% MAX (1.5% DESIGN)
SIDEWALK WIDTH:	36" MIN. (60" DESIGN)

LEGEND

EXISTING		PROPOSED	EXISTING		PROPOSED
	CATCH BASIN			DRAINTILE	
	STORM MANHOLE			SANITARY SEWER	
	FLARED END SECTION			FORCEMAIN	
	SANITARY MANHOLE			WATERMAIN	
	HYDRANT			SANITARY SEWER SERVICE	
	GATE VALVE			WATER SERVICE	
	POST INDICATOR VALVE			UNDERGROUND ELECTRIC	
	WATER MANHOLE / WELL			UNDERGROUND FIBER OPTIC	
	LIGHT POLE			UNDERGROUND GAS	
	POWER POLE			UNDERGROUND TELEPHONE	
	ELECTRIC METER			OVERHEAD UTILITY	
	GAS METER			FENCE	
	TELEPHONE PEDESTAL			CHAIN LINK FENCE	
	SIGN			CONCRETE CURB	
	BENCHMARK			RETAINING WALL	
	SOIL BORING			CONCRETE	
	PARKING STALL COUNT			NO PARKING	
	ACCESSIBLE PARKING STALL			BUILDING	
	STORM SEWER		972	CONTOUR	972
	TREE LINE		x972.5	SPOT ELEVATION	x972.5 1.0%
	PARKING SETBACK LINE	PSBL		DIRECTION OF FLOW	
	BUILDING SETBACK LINE	BSBL			

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Gopher State One Call

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TOLL FREE: 1-800-252-1166

WARNING:

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7200 Hemlock Lane, Suite 300
Maple Grove, MN 55369
763.424.5505
www.loucksinc.com
LOUCKS PROJECT NO. 22246.0A

Certification

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18.11.22

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.

Name	Samuel Trebesch - PE
License Number	56088
Date Signed	XX/XX/2022

Project For

ROERS

SHAKOPEE MULTIFAMILY

Project No.	22246.0A
Drawn By	JDL
Checked By	SRT
Date	11/18/2022

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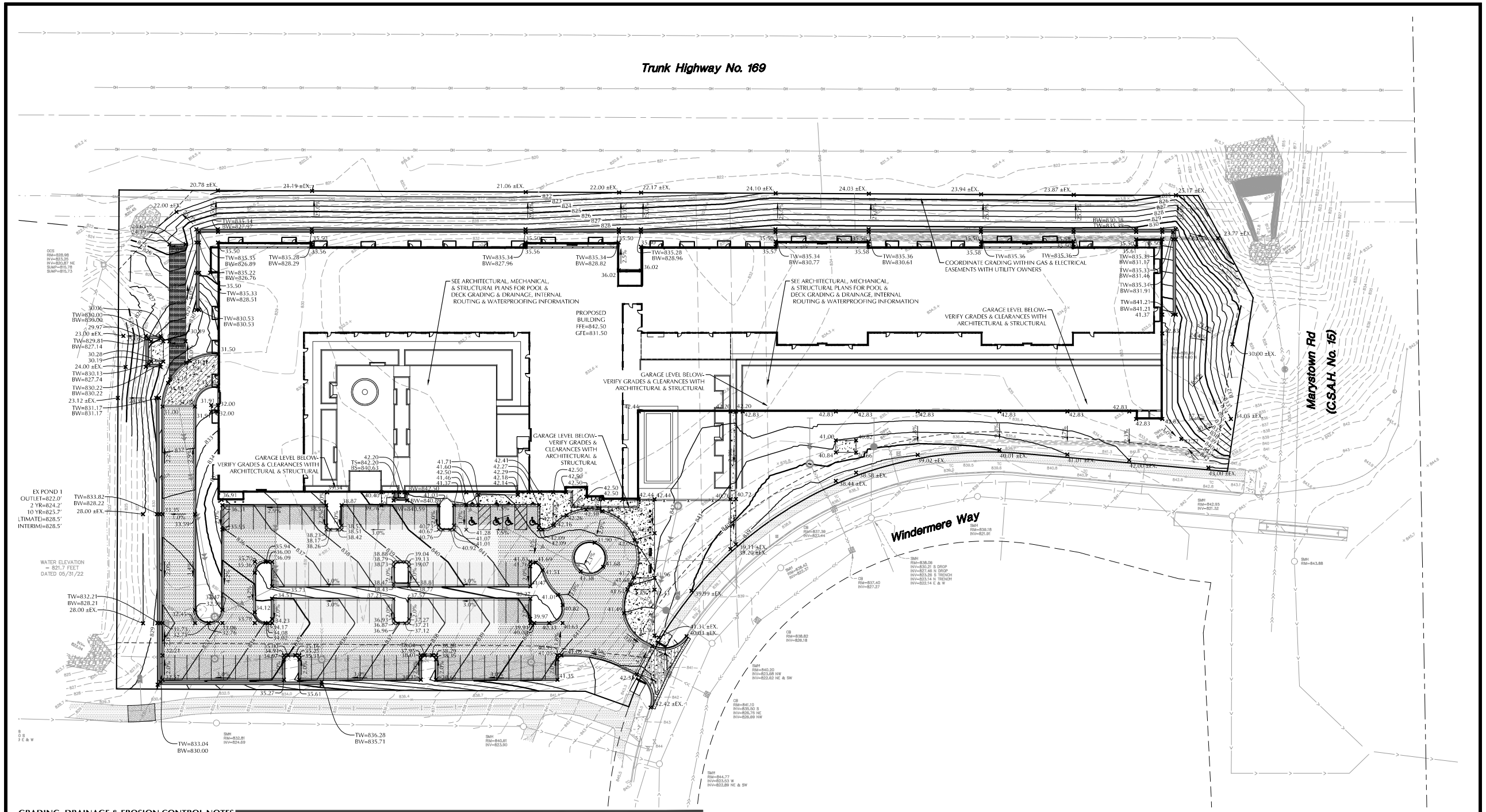
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	09/24/2022	SD SET
	09/14/2022	PUD AMENDMENT SUBMITTAL
	09/30/2022	DD PACKAGE
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ACCESSIBLE ROUTE PLAN

C2.2



GRADING, DRAINAGE & EROSION CONTROL NOTES

1. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.10 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
3. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF PREMIUM TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. VERIFY WITH LANDSCAPE PLAN.
4. FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).
5. REFER TO GEOTECHNICAL EVALUATION REPORT (REPORT XXX), DATED XX XX, XXXX AS PREPARED BY XXX, FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS INCLUDING BUT NOT LIMITED TO:
   - 5.A. REUSE OF ON-SITE SOILS
   - 5.B. GROUNDWATER AND RECOMMENDATIONS FOR EXCAVATION DEWATERING.
   - 5.C. SITE GRADING AND SUBGRADE PREPARATION.
   - 5.D. PAVEMENTS AND EXTERIOR SLABS.
   - 5.E. TRENCH EXCAVATION AND BACKFILL.
   - 5.F. EXTERIOR UTILITY SUPPORTS.
   - 5.G. FROST PROTECTION.
6. STREETS MUST BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS, OR AS DIRECTED BY CITY. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
7. DUST MUST BE ADEQUATELY CONTROLLED.
8. SEE SWPPP FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
9. SEE UTILITY PLAN FOR WATER, STORM AND SANITARY SEWER INFORMATION.
10. SEE SITE PLAN FOR CURB AND BITUMINOUS TAPER LOCATIONS.
11. THE CONTRACTOR ALONG WITH THE OWNER SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM GOVERNING AUTHORITIES, INCLUDING ANY CITY PERMITS AND THE NPDES PERMIT FROM THE MPCA.
12. INSTALL EROSION CONTROL AND TREE PROTECTION MEASURES BEFORE BEGINNING SITE GRADING ACTIVITIES. SOME EROSION CONTROLS SUCH AS BALE CHECKS AND TEMPORARY SILT PONDS MAY BE INSTALLED AS GRADING OCCURS IN SPECIFIC AREAS. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE WHEN TURF HAS BEEN ESTABLISHED.
13. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE MPCA NPDES PERMIT. THE AREA TO BE DISTURBED SHALL BE MINIMIZED AND TURF SHALL BE ESTABLISHED WITHIN THE TIME REQUIRED.
14. GRADES SHOWN ARE FINISHED GRADES.
15. FINAL GRADING TOLERANCES ARE +/-0.1 FEET TO FINISH GRADES.
16. UNDER PAVEMENTS COMPACT THE UPPER 3 FEET OF SUBGRADE TO 100% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AND 95% STANDARD PROCTOR DENSITY BLOW THE UPPER 3 FEET OF SUBGRADE. OUTSIDE PAVEMENT AREAS COMPACT EMBANKMENTS TO 95% STANDARD PROCTOR DENSITY.
17. STRUCTURAL RETAINING WALL, FENCING AND HANDRAIL DESIGN BY OTHERS.

LEGEND

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

GRADING & DRAINAGE NOTES

SEE STORMWATER POLLUTION PREVENTION PLAN FOR SOIL STABILIZATION INFORMATION.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED AROUND THE ENTIRE SITE PERIMETER AND IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, CITY REQUIREMENTS AND THE DETAILS SHOWN ON THE CIVIL DETAILS SHEETS OF THESE PLANS.

ALL CURB SPOT ELEVATIONS ARE TO GUTTER LINE UNLESS NOTED OTHERWISE.

PROJECT BENCHMARK

SITE BENCHMARK: TOP NUT OF HYDRANT LOCATED AT THE SOUTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION = 945.11 (NGVD 29)

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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.

Name: Samuel Trebesch - PE
License Number: 56088
Date Signed: XX/XX/2022

Project For

ROERS

SHAKOPEE MULTIFAMILY

Project No.	22246.0A
Drawn By	JDL
Checked By	SRT
Date	11/18/2022

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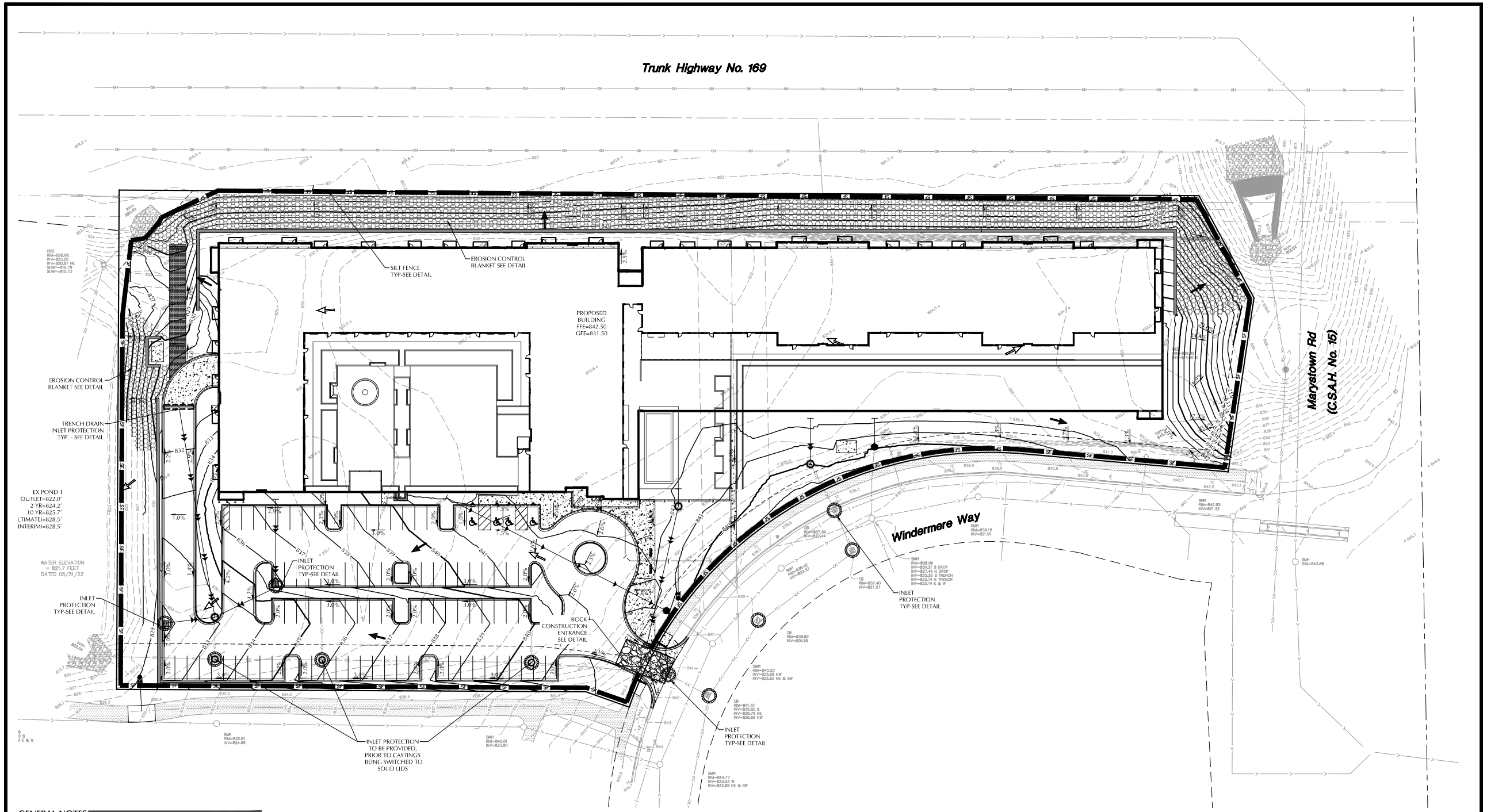
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GRADING PLAN

C3.1

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GENERAL NOTES

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

SWPPP LEGEND

- SILT FENCE
- BIO ROLLS
- INLET PROTECTION
- EXISTING DRAINAGE PATTERN
- PROPOSED DRAINAGE PATTERN
- EROSION CONTROL BLANKET

ESTIMATED QUANTITIES

DESCRIPTION	UNIT	QUANTITY
TEMPORARY ROCK CONSTRUCTION ENTRANCE	EA	1
PREFABRICATED CONCRETE WASHOUT	EA	NOT ALLOWED
SILT FENCE (STANDARD)	LF	2225
EROSION CONTROL BLANKET	SY	2655
INLET PROTECTION	EA	10

NOTE:
EXISTING CONDITIONS INFORMATION SHOWN IS FROM A BOUNDARY & TOPOGRAPHIC SURVEY PROVIDED BY LOUCKS, DATED JUNE, 2022.

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Date Signed	XX/XX/2022

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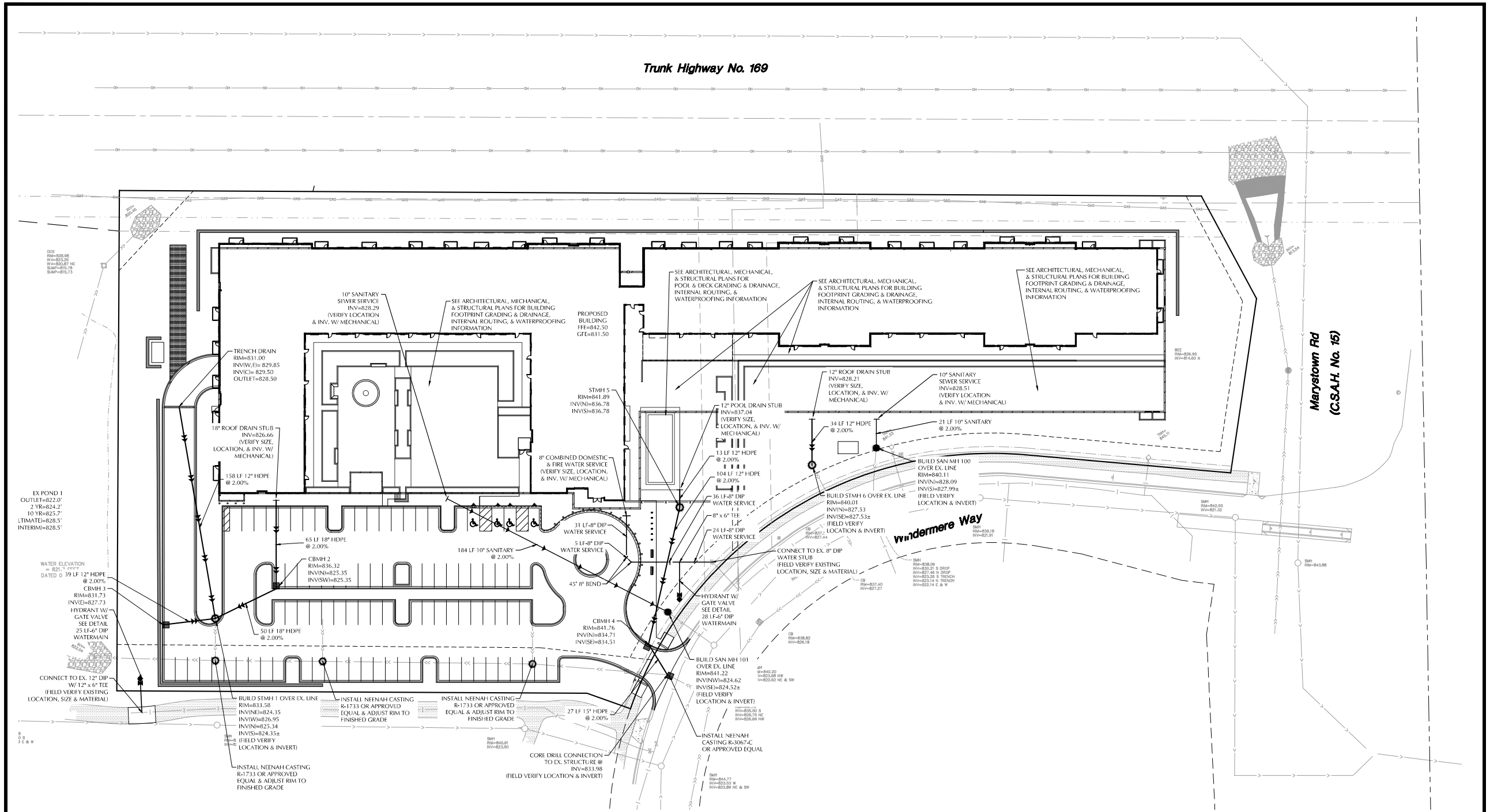
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SWPPP

C3.2



UTILITY NOTES

1. 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), CURRENT EDITION.
2. 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.
3. 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.
4. ALL STORM SEWER , SANITARY SEWER AND WATER SERVICES SHALL TERMINATE 5' FROM THE BUILDING FACE UNLESS OTHERWISE NOTED.
5. A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED BETWEEN WATERMAIN AND ALL OTHER UTILITIES UNLESS OTHERWISE NOTED.
6. ALL NEW WATERMAIN AND SERVICES MUST HAVE A MINIMUM OF 8.0 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 8.0 FEET MINIMUM DEPTH CAN NOT BE ATTAINED.
7. ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. PROPOSED PIPE MATERIALS:

WATERMAIN	CL 52 DIP	6" TO 8" DIAMETER
SANITARY SEWER	PVC SDR 35 & SCH 40	10" DIAMETER
STORM SEWER	DUAL WALL HDPE	12" TO 15" DIAMETER

9. 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 4714
10. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT (SEE MINNESOTA RULES, PART 4714). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER STRUCTURES.
11. HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES, PART 4714:
    a. PIPES 4-INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.
    b. PIPES 12-INCH TO 60-INCH IN SIZE MUST COMPLY WITH ASTM F2306.
    c. ALL FITTINGS MUST COMPLY WITH ASTM D3212.
    d. WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.
11. 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 (MMUTCD) 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.
12. THE CITY SHALL OPERATE ALL GATE VALVES.
13. 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.
14. WATERMAIN FITTINGS SHALL BE COMPACT TYPE. PIPE AND FITTINGS SHALL HAVE A CEMENT MORTAR LINING. CONDUCTIVITY SHALL BE PROVIDED BY WELDED STRAPS ACROSS EACH JOIN.T
15. 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.

LEGEND

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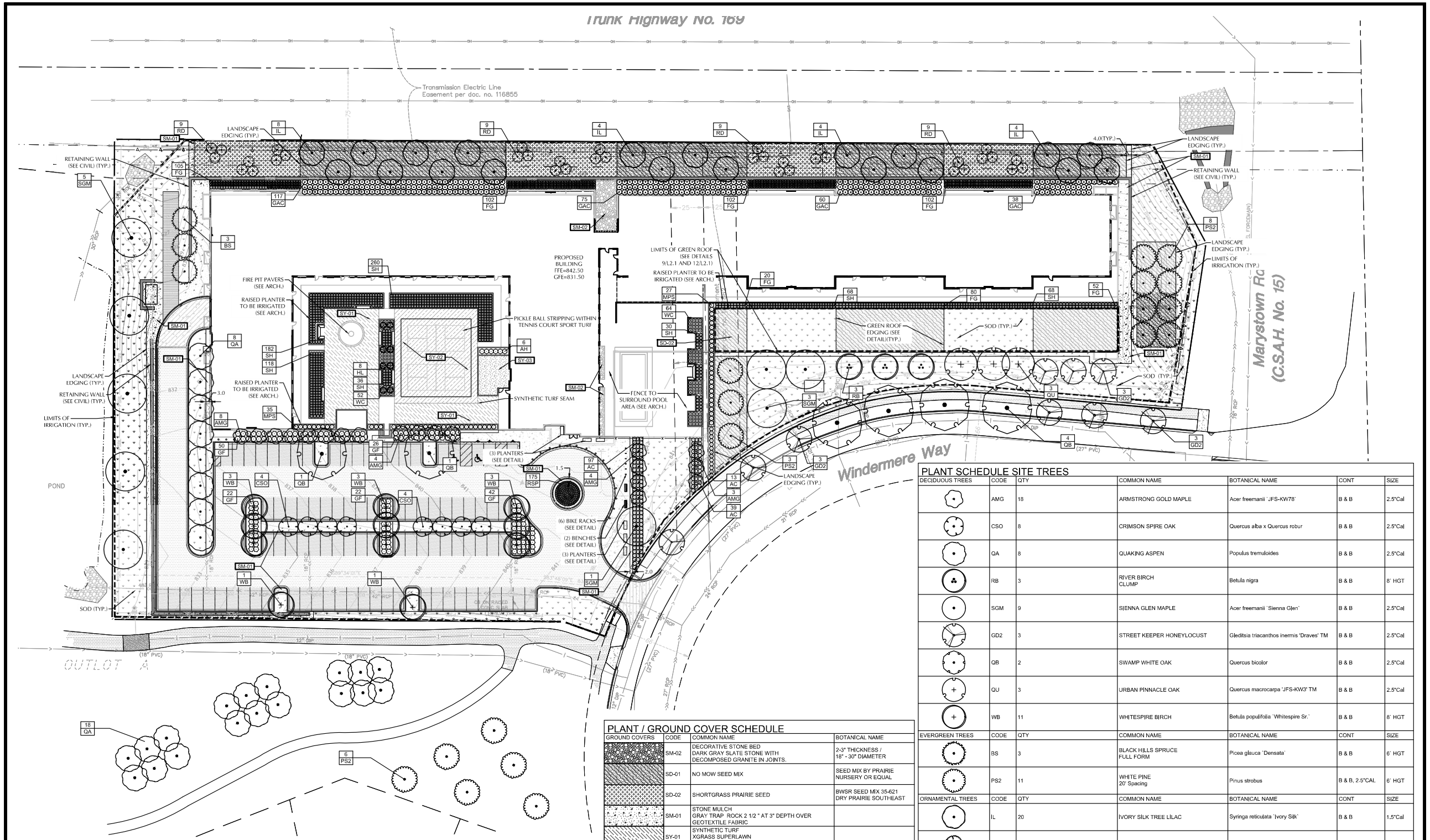
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UTILITY PLAN

C4.1



PLANT SCHEDULE SITE TREES

DECIDUOUS TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE
	AMG	18	ARMSTRONG GOLD MAPLE	Acer freemanii 'JFS-KW78'	B & B	2.5"Cal
	CSO	8	CRIMSON SPIRE OAK	Quercus alba x Quercus robur	B & B	2.5"Cal
	QA	8	QUAKING ASPEN	Populus tremuloides	B & B	2.5"Cal
	RB	3	RIVER BIRCH CLUMP	Betula nigra	B & B	8` HGT
	SGM	9	SIENNA GLEN MAPLE	Acer freemanii `Sienna Glen`	B & B	2.5"Cal
	GD2	3	STREET KEEPER HONEYLOCUST	Gleditsia triacanthos inermis 'Draves' TM	B & B	2.5"Cal
	QB	2	SWAMP WHITE OAK	Quercus bicolor	B & B	2.5"Cal
	QU	3	URBAN PINNACLE OAK	Quercus macrocarpa 'JFS-KW3' TM	B & B	2.5"Cal
	WB	11	WHITESPIRE BIRCH	Betula populifolia `Whitespire Sr.`	B & B	8` HGT
EVERGREEN TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE
	BS	3	BLACK HILLS SPRUCE FULL FORM	Picea glauca `Densata`	B & B	6` HGT
	PS2	11	WHITE PINE 20` Spacing	Pinus strobus	B & B, 2.5"CAL	6` HGT
ORNAMENTAL TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE
	IL	20	IVORY SILK TREE LILAC	Syringa reticulata `Ivory Silk`	B & B	1.5"Cal
	HL	8	LIIMELIGHT HYDRANGEA TREE FORM	Hydrangea paniculata 'Limelight'	B & B	2.5"Cal
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	
AH	6	ANNABELLE HYDRANGEA	Hydrangea arborescens `Annabelle`	5 gal	24" HGT	
AC	134	AUTUMN MAGIC CHOKEBERRY	Aronia melanocarpa `Magic Carpet`	5 gal	24" HGT	
GAC	290	GREEN MOUND ALPINE CURRANT	Ribes alpinum `Green Mound`	5 gal	24" HGT	
GF	162	GRO-LOW FRAGRANT SUMAC	Rhus aromatica `Gro-Low`	5 gal	24" SPRD	
RD	36	RED TWIG DOGWOOD	Cornus sericea `Bailey`	5 gal	24" HGT	
GRASSES	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	
FG	563	FEATHER REED GRASS	Calamagrostis x acutiflora `Karl Foerster`	1 gal		
SH	762	PRAIRIE DROPSEED	Sporobolus heterolepis	1 gal		
CONIFEROUS SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	
MPS	62	MUGO PINE SLOWMOUND	Pinus mugo `Slowmound`	5 gal	18" SPRD	
PERENNIALS	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	
RSP	175	RALPH SHUGERT PERIWINKLE	Vinca minor `Ralph Shugert`	TRAY		
WC	116	WALKERS LOW CATMINT	Nepeta x faassenii `Walkers Low`	1 gal		

PLANT / GROUND COVER SCHEDULE

GROUND COVERS	CODE	COMMON NAME	BOTANICAL NAME
	SM-02	DECORATIVE STONE BED DARK GRAY SLATE STONE WITH DECOMPOSED GRANITE IN JOINTS.	2-3" THICKNESS / 18" - 30" DIAMETER
	SD-01	NO MOW SEED MIX	SEED MIX BY PRAIRIE NURSERY OR EQUAL
	SD-02	SHORTGRASS PRAIRIE SEED	BWSR SEED MIX 35-621 DRY PRAIRIE SOUTHEAST
	SM-01	STONE MULCH GRAY TRAP ROCK 2 1/2 " AT 3" DEPTH OVER GEOTEXTILE FABRIC	
	SY-01	SYNTHETIC TURF XGRASS SUPERLAWN ULTIMATE OR EQUAL	
	SY-02	SYNTHETIC TURF XGRASS TENNIS COURT OR EQUAL (PICKLEBALL)	
	SY-03	SYNTHETIC TURF XGRASS PET OR EQUAL	
	SOD	TURF SOD	

PLANT SCHEDULE OUTLOT A

DECIDUOUS TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE
	QA	18	QUAKING ASPEN	Populus tremuloides	B & B	2.5"Cal
EVERGREEN TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE
	PS2	6	WHITE PINE 20` Spacing	Pinus strobus	B & B, 2.5"CAL	6` HGT

THE BALANCE OF TREES REQUIRED TO MEET CITY REQUIREMENTS SHALL BE PLANTED ON CITY LOT - OUTLOT A, WINDERMERE

PLANT SCHEDULE BOULEVARD TREES

DECIDUOUS TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE
	GD2	6	STREET KEEPER HONEYLOCUST	Gleditsia triacanthos inermis 'Draves' TM	B & B	2.5"Cal
	QB	4	SWAMP WHITE OAK	Quercus bicolor	B & B	2.5"Cal

LANDSCAPE REQUIREMENTS:

LANDSCAPE AREA CALCULATION:

LOT AREA 241,235 SQ. FT. x 0.15 = 36,185 SQ. FT. LANDSCAPE AREA REQUIRED

LANDSCAPE AREA PROVIDING: = 75,840 SQ. FT. (31%)

TREE CALCULATIONS:

GROSS BUILDING FOOTPRINT: 61,285 SQ. FT.

0 - 10,000 SQ. FT. (2 TREES PER 1,000)10,000 / 1,000 = 10 X 2 20 TREES
10,001 - 50,000 SQ. FT. (1.62 TREE PER 1,000) 51,285 / 1,000 = 83 TREES

TOTAL BUILDING FOOTPRINT TREES = 103 TREES (PER DRC COMMENTS)

IMPERVIOUS AREA TREE CALC.
IN ADDITION TO LANDSCAPING UNITS REQUIRED FOR GROSS BUILDING AREA, FOR PROJECTS WITH IMPERVIOUS AREAS WHICH EXCEED 4,000 SQUARE FEET, ONE SHADE TREE SHALL BE REQUIRED FOR EACH 4,000 SQUARE FEET OF IMPERVIOUS AREA. WHEN CALCULATING THE REQUIRED LANDSCAPING, SQUARE FEET SHALL BE ROUNDED UP TO THE NEAREST 1,000 SQUARE FEET AND PERVIOUS PAVEMENT SHALL BE EXCLUDED)(1 TREE PER 4,000 SQ. FT.)

59,596 SQ. FT. / 4,000 SQ = 15 TREES

TOTAL TREES REQUIRED: = 118 TOTAL TREES

TOTAL TREES PROVIDING: = 118 TOTAL TREES

PARKING LOT TREES:
(A PORTION OF THE REQUIRED LANDSCAPING SHALL BE PLACED IN A PARKING FACILITY CONTAINING MORE THAN 25 PARKING SPACES IN ACCORDANCE WITH THE FOLLOWING MINIMUM LANDSCAPING REQUIREMENTS. NUMBER OF TREES NEEDED TO BE PLACED WITHIN THE PARKING AREA EQUALS 1 TREE FOR EVERY TEN (10) SPACES PLUS STREET TREES AND PERIMETER LANDSCAPING.)

95 SPACES / 10 = 10 TREES *(OF THE REQUIRED MUST BE PLACED IN PARKING LOT)*

0 30 60
SCALE IN FEET

NOTE:
EXISTING CONDITIONS INFORMATION SHOWN IS FROM A BOUNDARY & TOPOGRAPHIC SURVEY PROVIDED BY LOUCKS, DATED JUNE, 2022.

CALL BEFORE YOU DIG!
Gopher State One Call
TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

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.

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763.424.5505
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LOUCKS PROJECT NO. 22246.0A

Certification

NOT FOR CONSTRUCTION GMP PRICING SET 18.11.22

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 Landscape Architect under the laws of the state of Minnesota.

Name: Nathan Eshoff - LA
License Number: 52050
Date Signed: XX/XX/2022

Project For

ROERS

SHAKOPEE MULTIFAMILY

Project No.	22246.0A
Drawn By	KVK
Checked By	NWE
Date	11/18/2022

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Sheet Issues / Revisions

No.	Date	Description
	08/24/2022	SD SET
	09/14/2022	PUD AMENDMENT SUBMITTAL
	09/30/2022	DD PACKAGE
	11/18/2022	GMP PRICING SET

OVERALL LANDSCAPE PLAN

L1.1