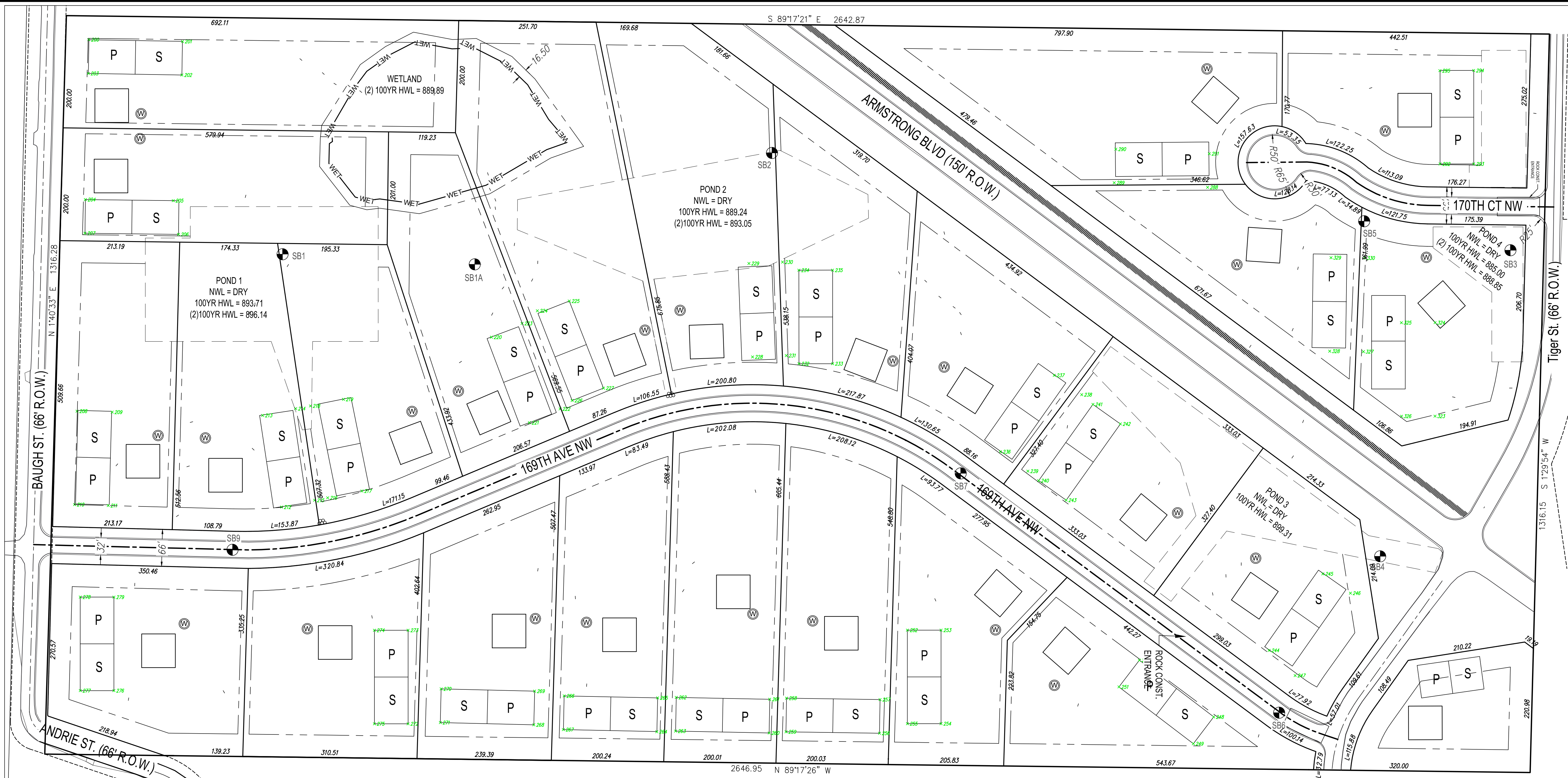
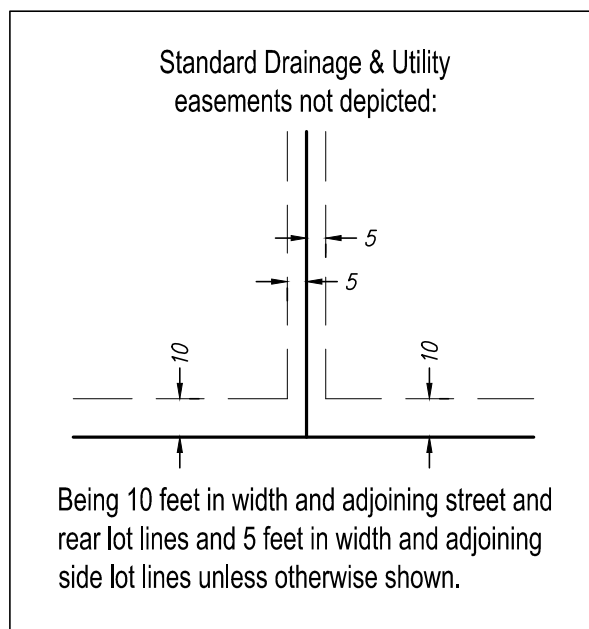


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**OWNER/DEVELOPER**  
**RUM RIVER PRAIRIE, LLC.**  
**ERIC THOMSEN**  
**6210 GREEN VALLEY RD.**  
**RAMSEY, MN 55303**

**STREET LENGTHS**  
**169TH AVE NW - 2,549'**  
**170TH CT NW - 615'**



**LINE TYPE & SYMBOL LEGEND**

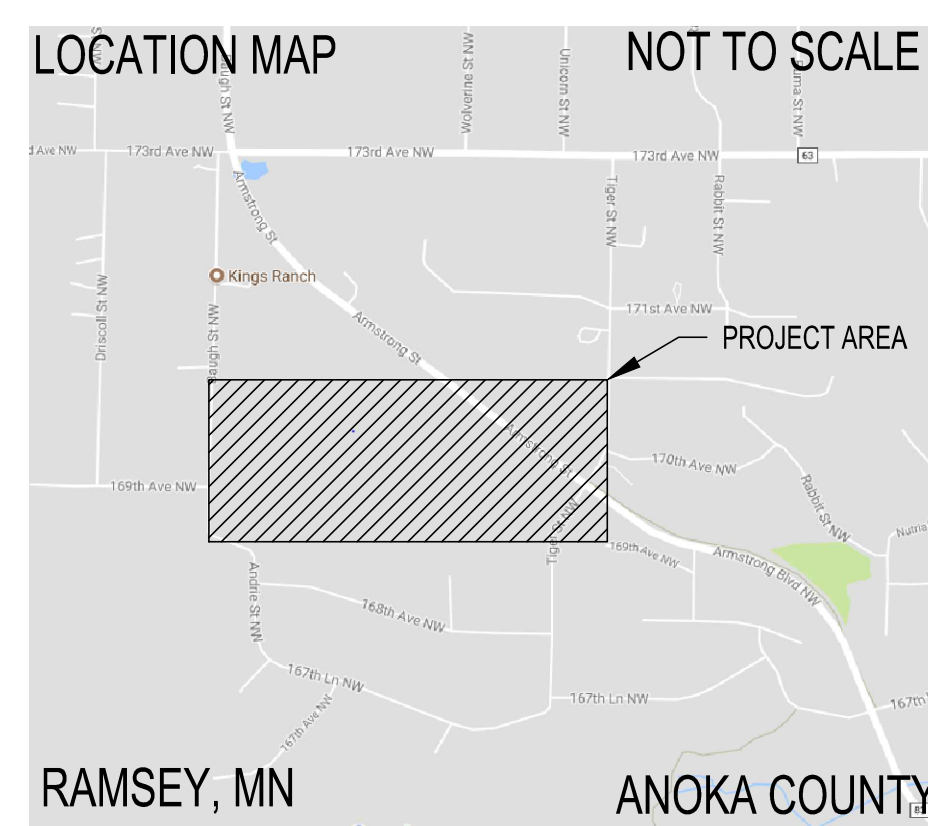
	DRAIN FIELD LOC. P = PRIMARY S = SECONDARY		94.50	PLAT BOUNDARY
	FLARED END SECTION			LOT LINE
	CULVERT			SETBACK
	PROPOSED WELL LOC.			WETLAND EDGE
	SOIL BORING LOC. W/ NUMBER			PROPOSED CONTOUR
	EXISTING TREE (PRESERVE)			EXISTING CONTOUR
	EXISTING TREE (REMOVE)			EASEMENT
	DRAINAGE FLOW ARROW			SILT FENCE
				TREE FENCE
				EDGE OF BIT. CENTERLINE
				FUTURE BIT. TRAIL

**BUILDING PAD LEGEND**

909.0	GARAGE FLOOR ELEVATION
FWO/MWO/SWO	TYPE OF BUILDING
FLO/MLO/F	LOWEST FLOOR ELEVATION
901.0	LOWEST OPENING ELEVATION
901.0	

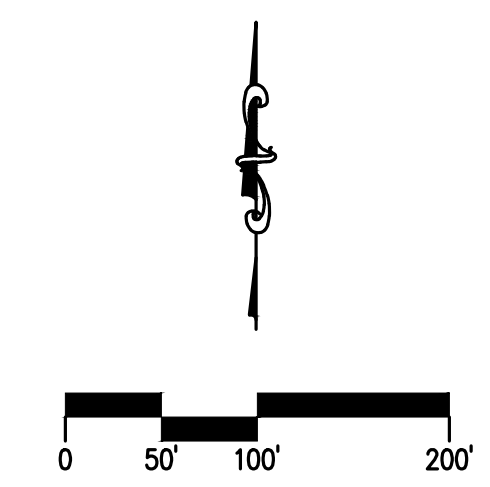
**BUILDING PAD LEGEND**

F	FULL BASEMENT
FWO	FULL BASEMENT WALKOUT
MWO	MODIFIED (NON STANDARD) WALKOUT BASEMENT
	VARIABLE 5-12 COURSE BASEMENT
SWO	SPLIT ENTRY WALKOUT BASEMENT (5 COURSE)
FLO	FULL BASEMENT LOOKOUT ON COURSE 5
MLO	MODIFIED (NON STANDARD) LOOKOUT BASEMENT
	VARIABLE 5-12 COURSE BASEMENT



**SHEET INDEX**

CO	COVER SHEET
C1	STORM SEWER AND STREET CONSTRUCTION
C2	ROAD PLAN & PROFILE (169TH AVE NW WEST END)
C3	ROAD PLAN & PROFILE (169TH AVE NW EAST END)
	ROAD PLAN & PROFILE (170TH CT NW)
G1	EROSION CONTROL, LANDSCAPING, AND DETAILS
G2	SITE GRADING PLAN (WEST)
G3	SITE GRADING PLAN (CENTER)
L1	SITE GRADING PLAN (EAST)
T1	TREE PLANTING PLAN
T2	EXISTING TREE PLAN
T3	SAVED TREES
T4	REMOVED TREES
D1	DETAILS
SW1	STORMWATER POLLUTION PREVENTION PLAN
SW2	STORMWATER POLLUTION PREVENTION PLAN



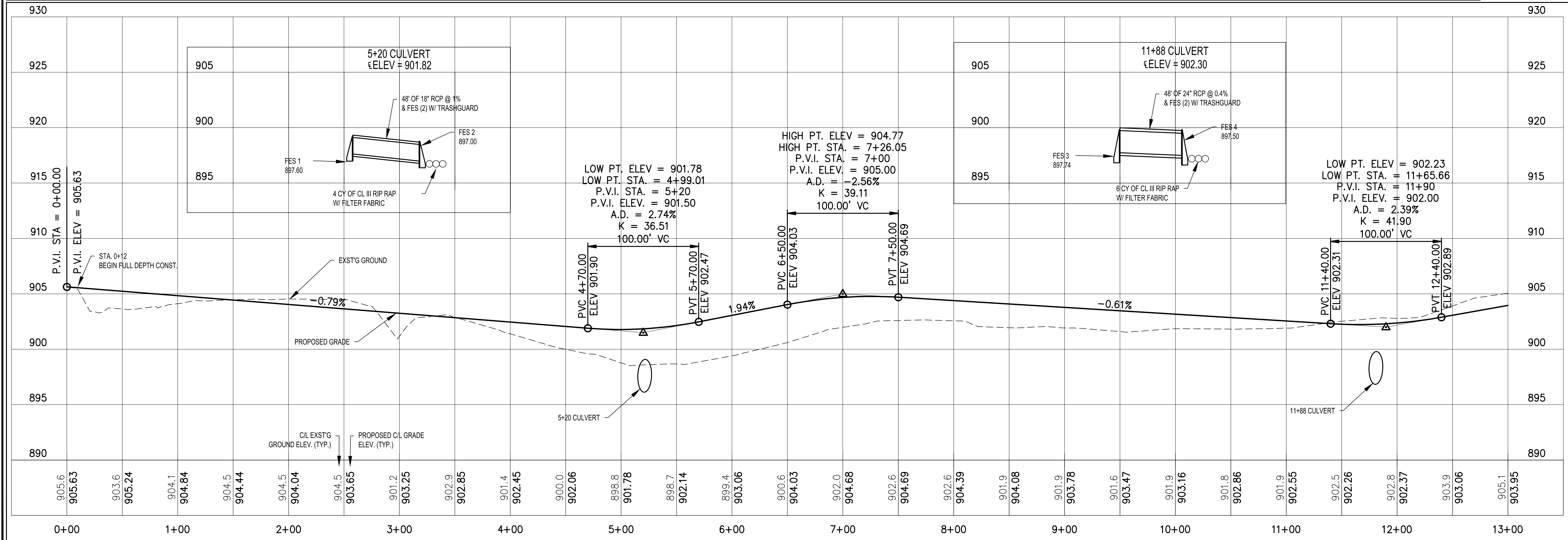
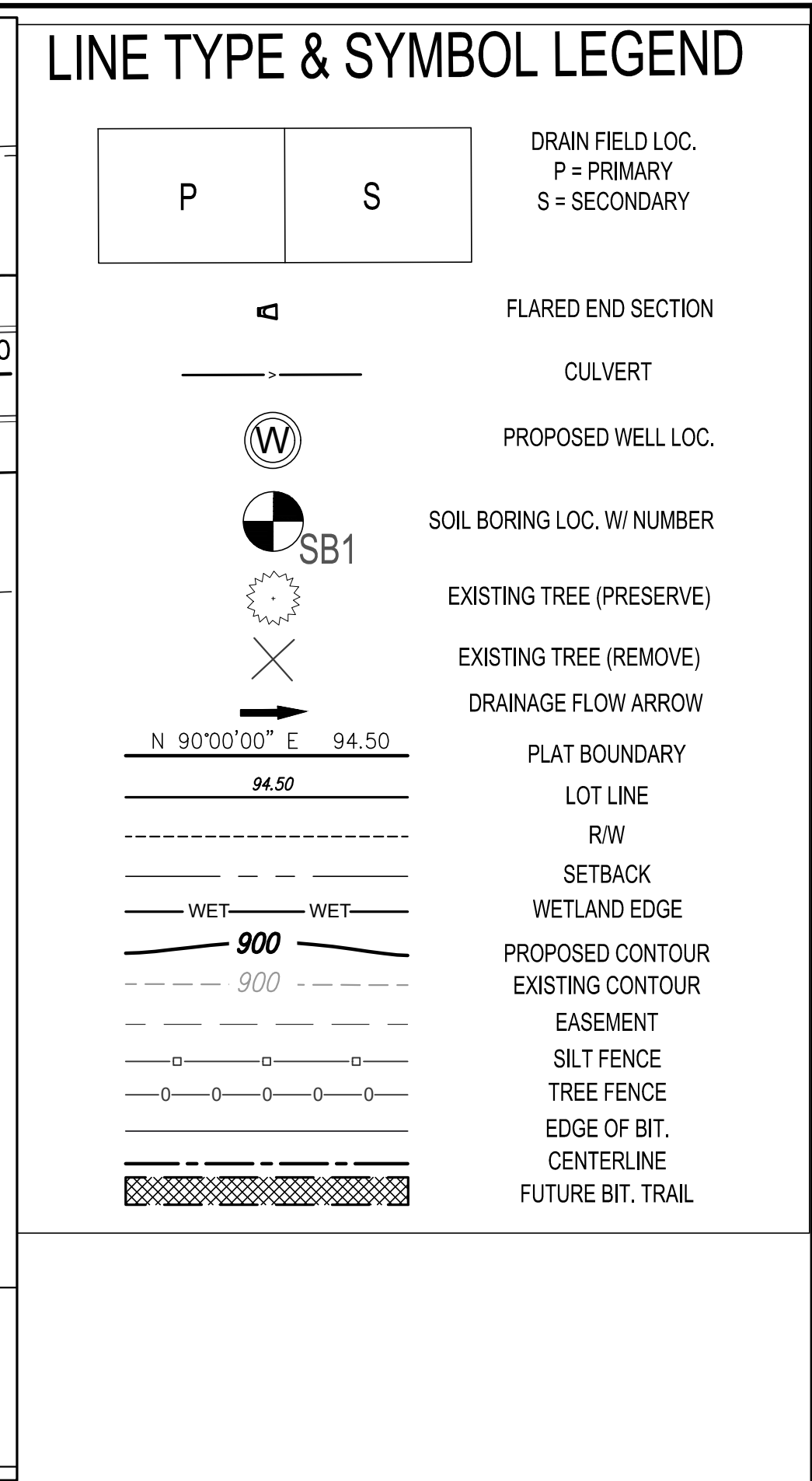
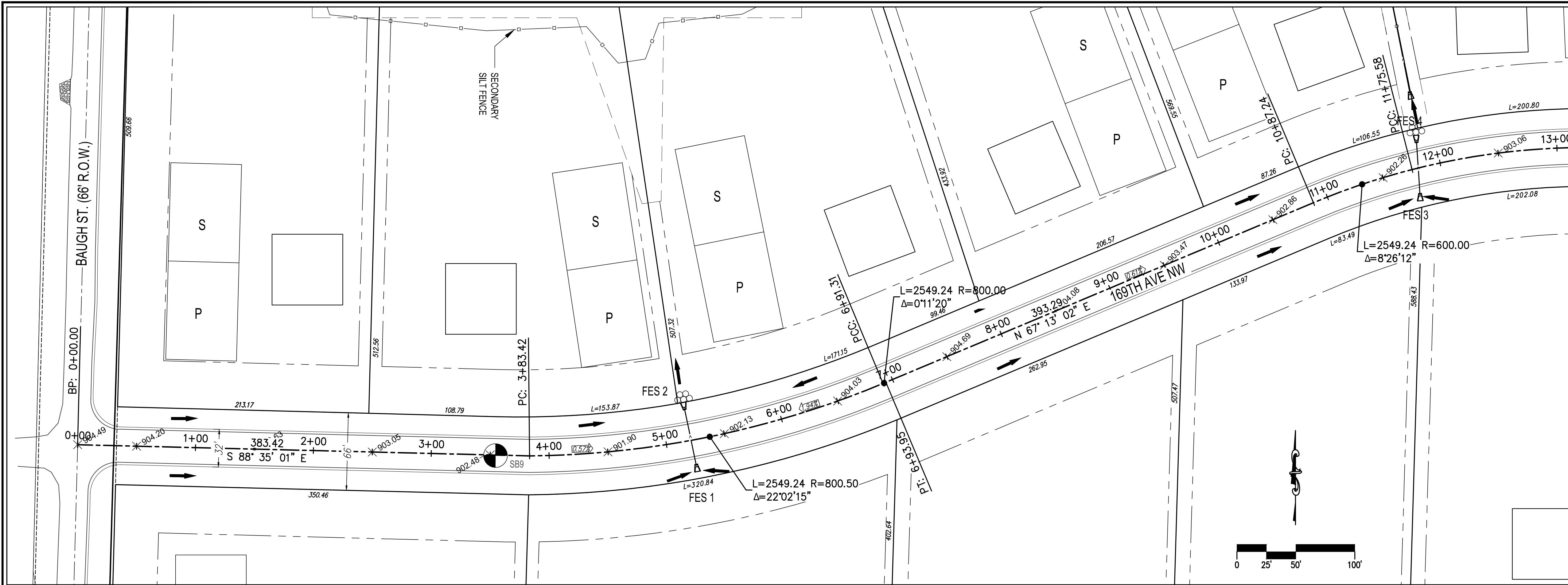
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 NAME: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

DESIGNED: BJH  
 DRAWN: BJH  
 CHECKED: \_\_\_\_\_  
  
 LDBcorp.com 21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

**RUM RIVER PRAIRIE DEVELOPMENT**

**COVER SHEET**  
**SHEET C0**

PLOT DATE: 12/29/2017 10:47:04 AM FILE: C:\Users\bjh\min\Desktop\170163 Eric Thompsons Armstrong Blvd\600 Drawings\Survey\170163 preliminary plot 12-21-17.dwg



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NAME: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

DESIGNED: B.J.H.  
DRAWN: B.J.H.  
CHECKED: \_\_\_\_\_

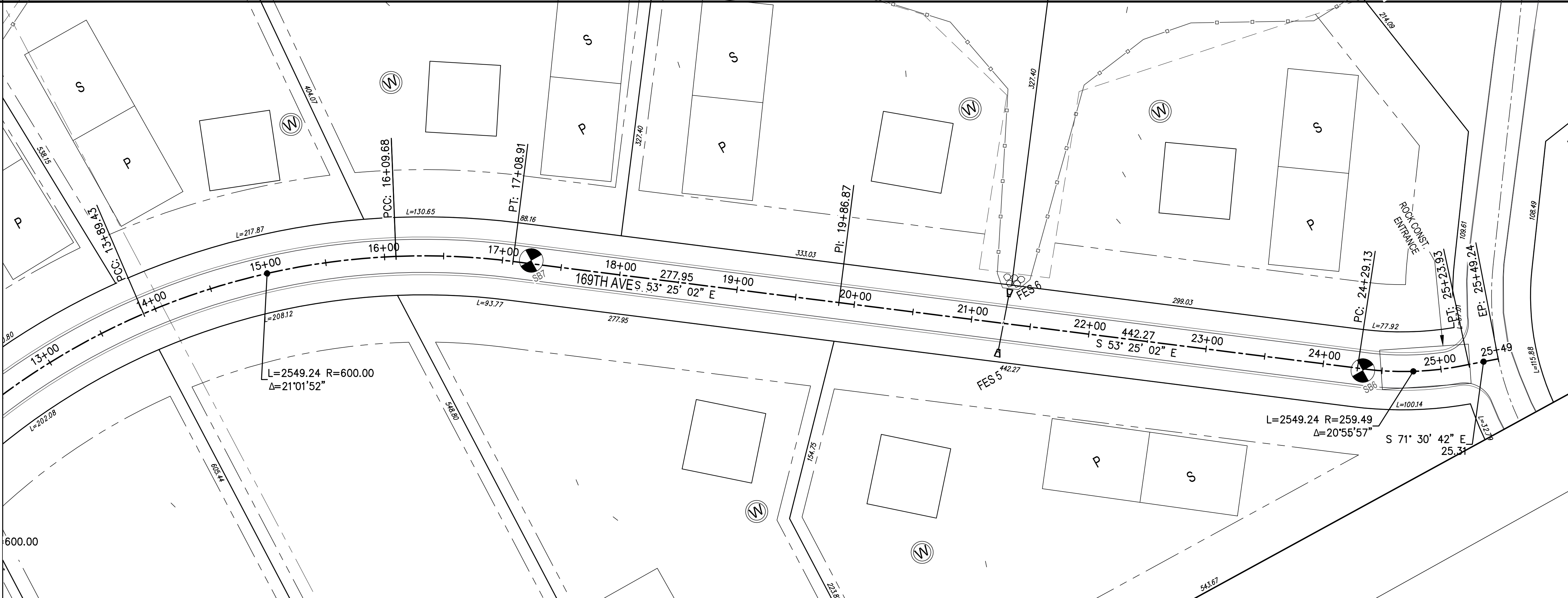
**PERFORMANCE DRIVEN DESIGN**  
LITB Corp. 21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

## RUM RIVER PRAIRIE DEVELOPMENT

ROAD PLAN & PROFILE

SHEET C1

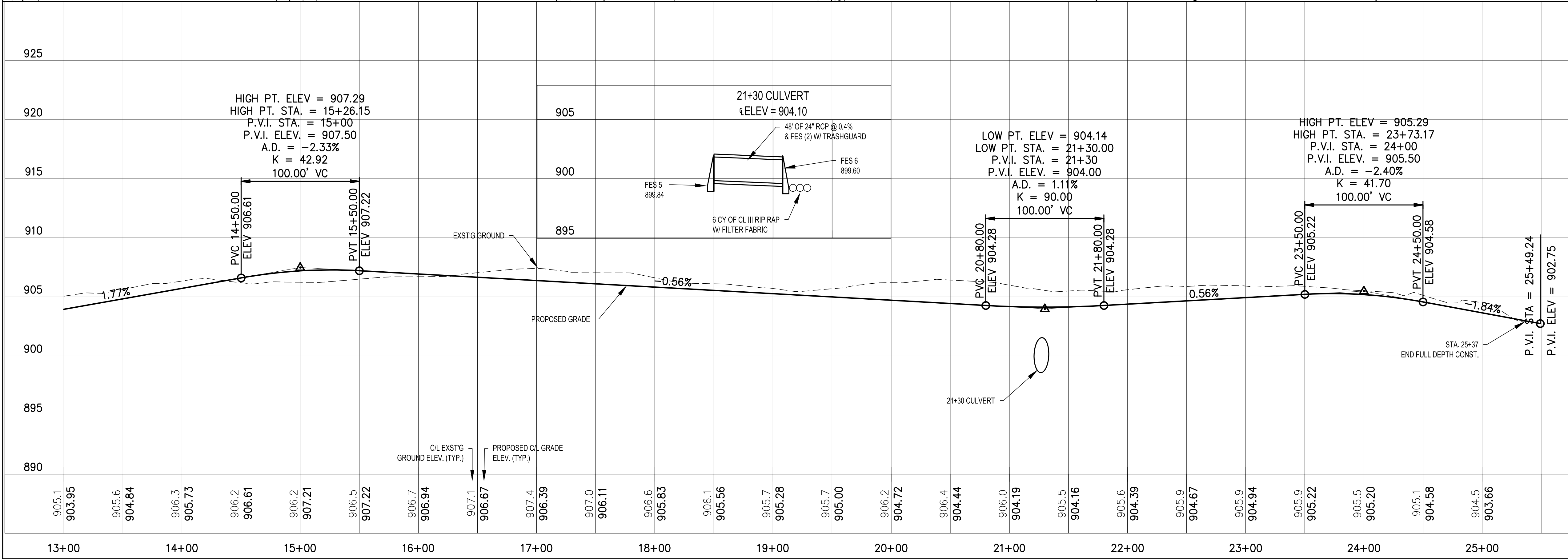
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### LINE TYPE & SYMBOL LEGEND

P	S	DRAIN FIELD LOC. P = PRIMARY S = SECONDARY
▲		FLARED END SECTION
— —		CULVERT
⊙		PROPOSED WELL LOC.
⊙ SB1		SOIL BORING LOC. W/NUMBER
⊙		EXISTING TREE (PRESERVE)
⊗		EXISTING TREE (REMOVE)
→		DRAINAGE FLOW ARROW
— —		PLAT BOUNDARY
— —		LOT LINE
— —		R/W
— —		SETBACK
— —		WETLAND EDGE
— —		PROPOSED CONTOUR
— —		EXISTING CONTOUR
— —		EASEMENT
— —		SILT FENCE
— —		TREE FENCE
— —		EDGE OF BIT.
— —		CENTERLINE
— —		FUTURE BIT. TRAIL

N 90°00'00" E 94.50  
94.50  
WET WET  
900 900  
900 900  
0 25 50 100'



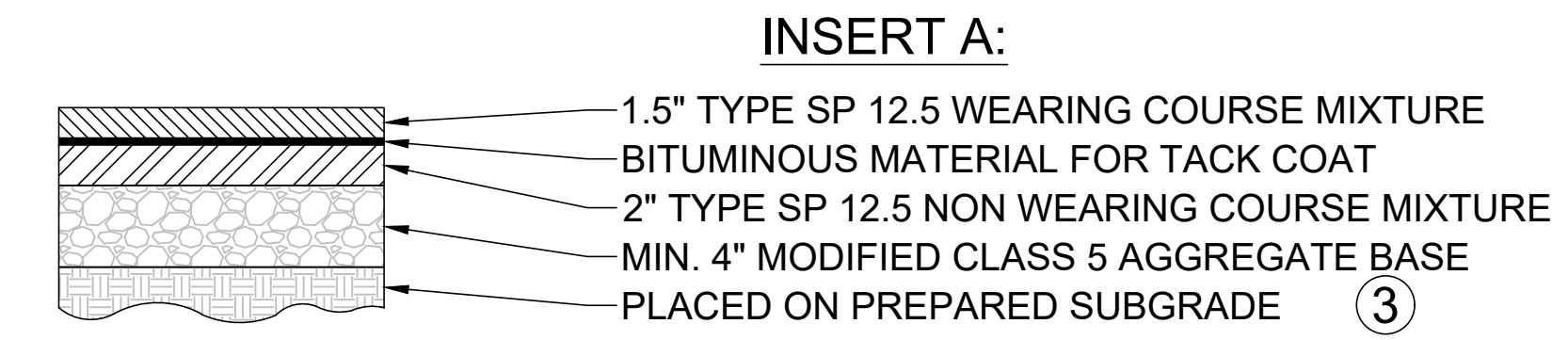
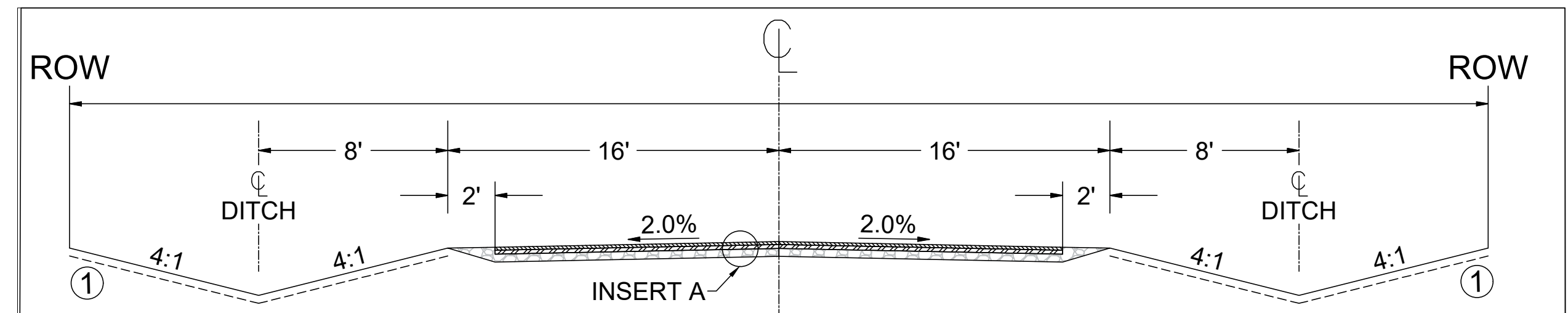
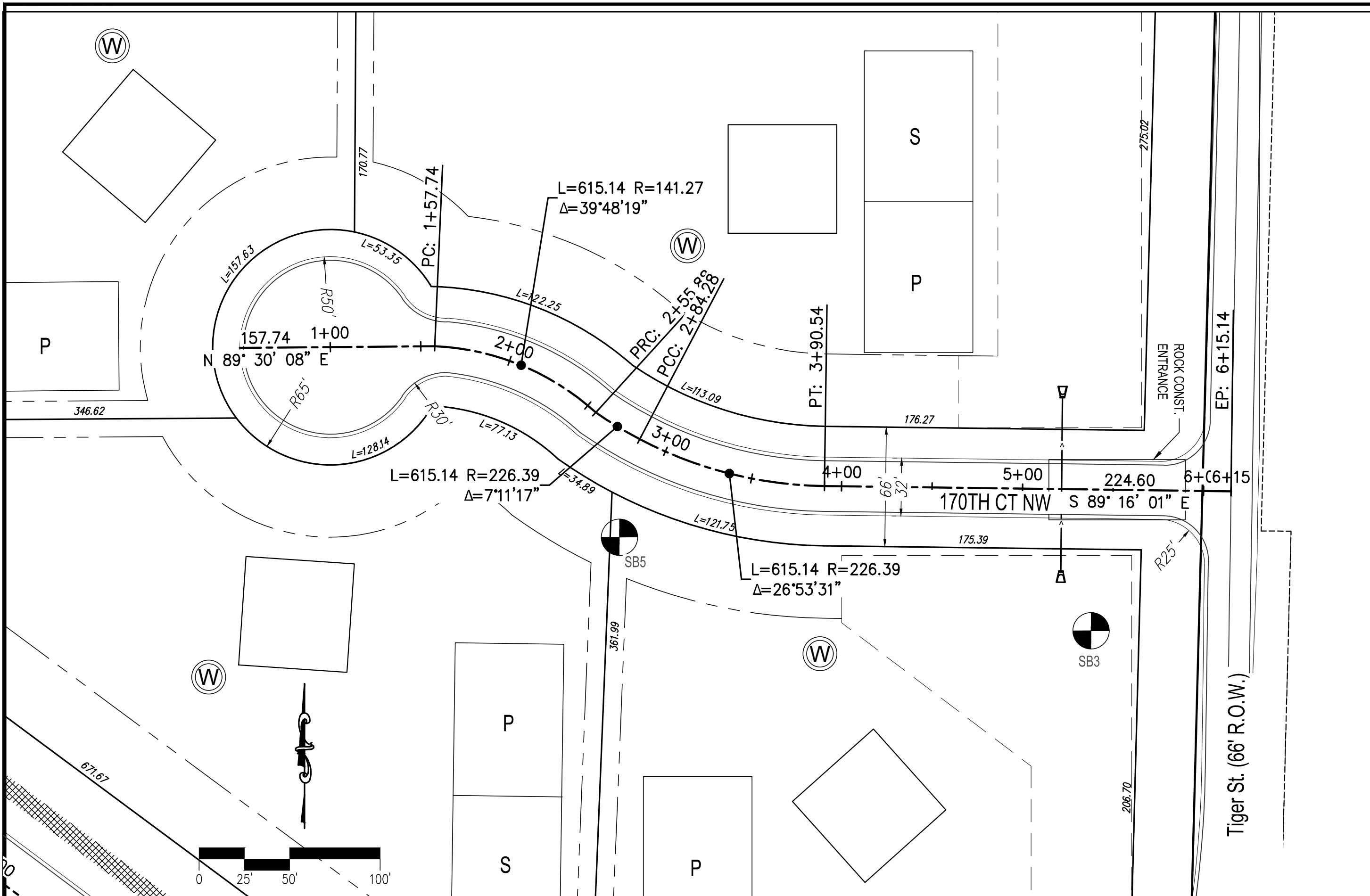
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 NAME: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

DESIGNED: BJH  
 DRAWN: BJH  
 CHECKED: \_\_\_\_\_

**LD**  
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## RUM RIVER PRAIRIE DEVELOPMENT

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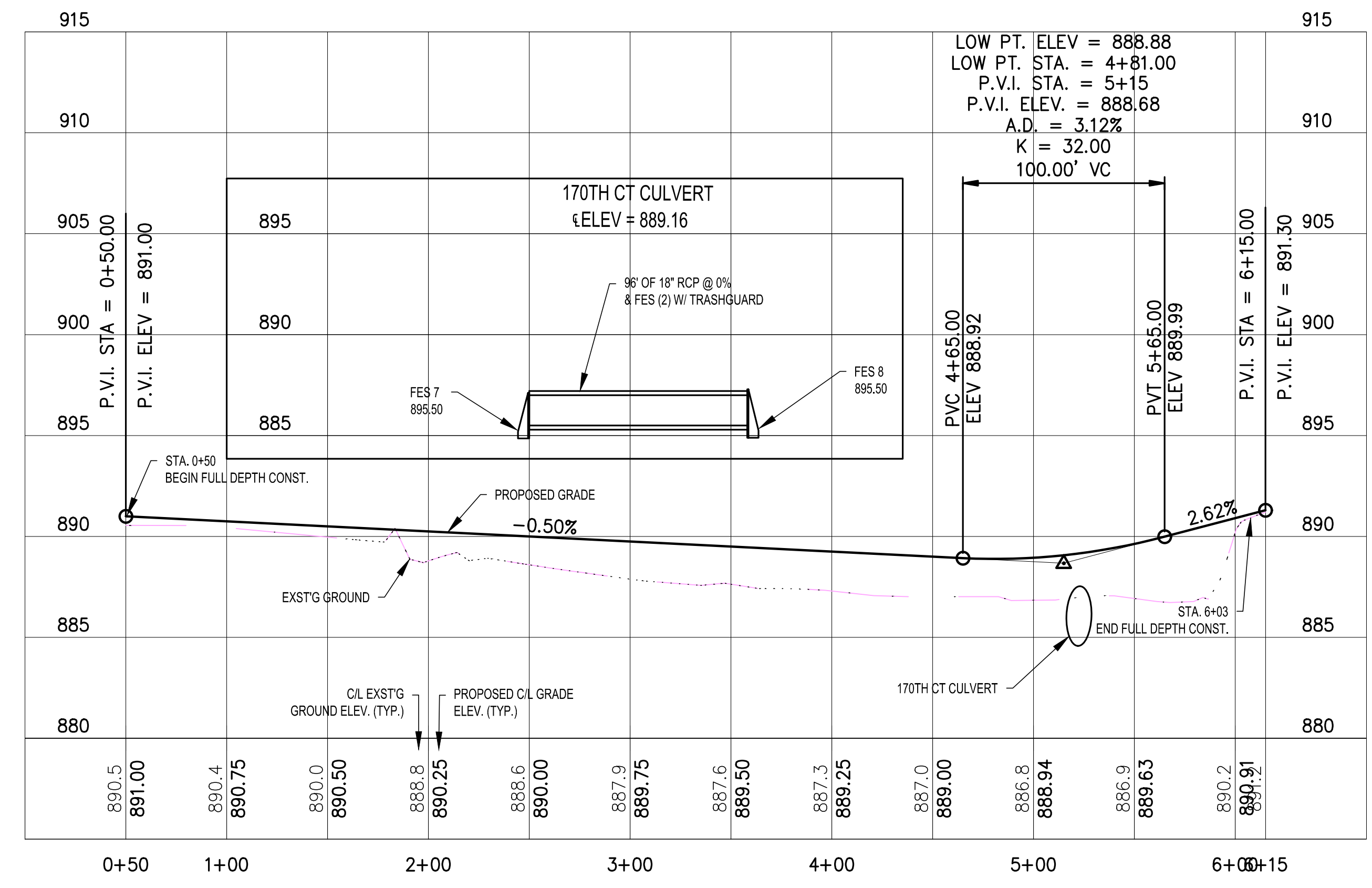


- REFERENCE NOTES:**
- ① GRADE TO MATCH EXISTING SURFACE MINIMUM 4" COMMON TOPSOIL BORROW, SEED AND MULCH IN ALL DISTURBED AREAS. SEE CITY PLATE No. ERO-6
  - ② CLASS 5 GRADATION IS MODIFIED PER CITY PLATE No. STR-26
  - ③ CONTRACTOR SHALL SCARIFY AND COMPACT, ACCORDING TO THE SPECIFIED DENSITY METHOD, THE TOP 12 INCHES OF MATERIAL PRIOR TO PLACING ANY FILL MATERIALS OR CLASS 5 AGGREGATE BASE.

APPROVED: 4 - 2016	CITY PLATE No. STR-6	STANDARD DETAILS: 28' - RURAL STREET
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### LINE TYPE & SYMBOL LEGEND

P	S	DRAIN FIELD LOC. P = PRIMARY S = SECONDARY
▲		FLARED END SECTION
—		CULVERT
⊙		PROPOSED WELL LOC.
⊙ SB1		SOIL BORING LOC. W/ NUMBER
⊙		EXISTING TREE (PRESERVE)
⊙		EXISTING TREE (REMOVE)
→		DRAINAGE FLOW ARROW
—		PLAT BOUNDARY
—		LOT LINE
---		R/W
---		SETBACK
---		WETLAND EDGE
---		PROPOSED CONTOUR
---		EXISTING CONTOUR
---		EASEMENT
---		SILT FENCE
---		TREE FENCE
---		EDGE OF BIT.
---		CENTERLINE
---		FUTURE BIT. TRAIL



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: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

DESIGNED: BJH  
 DRAWN: BJH  
 CHECKED: \_\_\_\_\_

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RUM RIVER PRAIRIE DEVELOPMENT

PLOT DATE: 12/29/2017 10:55:50 AM FILE: C:\Users\bjh\OneDrive\Desktop\170163 Eric Thompsons Armstrong Blvd\600 Drawings\Survey\170163 preliminary plot 12-21-17.dwg

THE PLANTING DEPTH OF EACH TREE WILL BE INSPECTED. ANY TREE PLANTED TOO DEEPLY OR WITH 1ST PRIMARY ROOTS BURIED WILL BE REJECTED.

1. ALL TREES TO BE PREMIUM QUALITY, NO "PARK GRADE" TREES ARE PERMITTED.
2. AFTER INSTALLATION, TRIM OUT DEADWOOD AND/OR DEFORMED TWIGGS. DO NOT CUT LEADER.
3. AMENDED SOIL SHALL CONTAIN 5% ORGANIC MATTER BY VOLUME.
4. DIAMETER OF HOLE SHALL BE 1'-2" LARGER THAN THE DIAMETER OF THE ROOTBALL OR ROOT MASS.
5. ORGANIC MATTER SHALL NOT BE BANKED AGAINST THE STEM OR TRUNK OF THE TREE.
6. TREE SHALL NOT BE STAKED UNLESS IT IS ABSOLUTELY NECESSARY TO DO SO.
7. ALL TWIGG BANS, AND WIRES SHALL BE REMOVED FROM THE TREE IMMEDIATELY AFTER PLANTING.
8. THE TREE SHALL BE WATERED AS NECESSARY TO PREVENT WILTING AND PROMOTE GROWTH.
9. A PHOTO DEGRADABLE TREE TUBE OR EQUIVALENT SHALL BE INSTALLED AROUND ALL NEWLY PLANTED TREES.
10. PULL BURLAP AWAY FROM TREE STEM.
11. STAKES AND GUY WIRES MANDATORY ONLY FOR BAB TREES WITH 4" CALIBER OR GREATER, ALL WIND PRONE SITES AND ALL BARE ROOT TREES.
12. COORDINATE STAKING TO INSURE UNIFORM ORIENTATION OF GUY WIRES AND STAKES, IF NECESSARY.
13. REMOVE SOIL FROM TOP OF ROOT BALL TO EXPOSE TOP OF 1ST SET OF PRIMARY ROOTS. 1ST SET OF PRIMARY ROOTS ARE AT FINISHED GRADE.
14. AFTER SETTING ROOT BALL IN PIT, BACKFILL TO WITHIN 12" OF TOP OF ROOT BALL, AND WATER IN. CUT AND REMOVE TO BACKFILL LINE ALL TWINE AND/OR BURLAP. BACK FILL UNTIL PIT IS FULL, WATER AGAIN. FULL EXCESSIVE SOIL OFF THE TOP OF BRANCH ROOT SYSTEM. IF SOIL IN ROOT BALL IS THE CONSISTENCY OF CATMAY, DUE TO EXCESSIVE HANDLING, CONTRACTOR SHALL STAKE THE TREE.
15. SHREDDED HARDWOOD MULCH - 1"-4" DEPTH, 5" DIAMETER. PULL AWAY FROM TRUNK OF TREE.
16. BACKFILL WITH 1/2 NATIVE SOILS AND 1/2 PLANTING SOIL. MIX THOROUGHLY. SEE SPEC.
17. GUY ASSEMBLY: 16" POLYPROPYLENE OR POLYETHYLENE (40 MIL) 1 1/2" WIDE STRIP - (TYP) DOUBLE STRAND 14 GA WIRE & 3 STEEL STAKES OR SIGN POSTS @ 120 DEGREE O.C.
18. GUY ASSEMBLY OPTIONAL BUT CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR MAINTAINING TREE IN A PLUMB POSITION FOR THE DURATION OF THE GUARANTEE PERIOD.

PHOTO DEGRADABLE TREE TUBE STURDY STAKE

UNDISTURBED SOIL OR COMPACTED SUBGRADE

SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING

SEE NOTES: 6,11,12,14,17,18

APPROVED: 5 - 1997

**City of RAMSEY**

STANDARD DETAILS: TREE PLANTING

CITY PLATE No. PARK-2

UPHILL

DOWNHILL

FILTER FABRIC

POST

IMBED 6"

FABRIC ANCHORAGE TRENCH BACKFILL WITH TAMPED NATURAL SOIL

MINIMUM TRENCH 6" wide by 6" deep

INSTALL AS PER FILTER FABRIC MANUFACTURER'S RECOMMENDATIONS

SILT FENCE DETAIL

NO SCALE

APPROVED: 1 - 2016

**City of RAMSEY**

STANDARD DETAILS: SILT FENCE

CITY PLATE No. ERO-1

ON SLOPES 4:1 OR GREATER, ANCHOR OR STRAIGHT DISKED STRAW MULCH, SEEDING NETTING, FABRIC, OR MATTING SUCH AS EXCELSIOR SHALL BE USED TO STABILIZE DISTURBED SOILS. THESE EXPOSED SOILS MUST BE STABILIZED IMMEDIATELY AFTER GRADING OF SOIL IS COMPLETE.

EROSION CONTROL FABRIC/MATTING/MULCH

RIPRAP

SILT FENCE

CLASS 3 RIPRAP REQUIREMENTS /DIAMETER OF PIPE

12" TO 24" 4 CUBIC YARDS

27" TO 33" 8 CUBIC YARDS

36" TO 48" 12 CUBIC YARDS

54" AND UP 16 CUBIC YARDS (ONE CUBIC YARD IS APPROX. 2,800 LBS.)

A SKIRTING OF EROSION CONTROL FABRIC OR MULCH MUST BE USED TO PROTECT OUTLETS AS ILLUSTRATED REGARDLESS OF SLOPE

SECTION A-A

SECTION B-B

RIP-RAP AT R.C.P. OUTLET

NO SCALE

APPROVED: 1 - 2016

**City of RAMSEY**

STANDARD DETAILS: RIP-RAP

CITY PLATE No. ERO-3

NOTE: GUARDS MUST BE INCORPORATED ON ALL INSTALLATIONS EXCEPT WHERE SPECIFICALLY ALLOWED OTHERWISE BY THE CITY ENGINEER.

**IMPORTANT**

HINGED CONNECTIONS (TO BE FREE OF RIP RAP AND BACKFILL)

6" MAX.

ALL GUARDS TO HAVE (1) CROSS BAR - 60" AND UP TO HAVE (2) EQUALLY SPACED

PIPE SIZE	BOLT DIA.	BAR SIZE
12"-24"	5/8"	5/8"
27"-48"	3/4"	3/4"
54"-90"	1"	1"
22"-29"	5/8"	5/8"
36"-59"	3/4"	3/4"
65"-88"	1"	1"

NOTE: COATINGS ARE AS SPECIFIED ELSEWHERE

**IMPORTANT**

BOLT LOCATIONS

APPROVED: 2 - 2006

**City of RAMSEY**

STANDARD DETAILS: TRASH GUARD

CITY PLATE No. STO-8

HWYS SURFACE

PUBLIC ROAD

GEOTEXTILE FABRIC

RIPRAP

MINIMUM 6" DEPTH 1"-2" WASHED ROCK

ENTRANCE WIDTH AS REQUIRED

MINIMUM - 50'

NOTE:

1. MINIMUM CONSTRUCTION ENTRANCE WIDTH EQUAL TO PROPOSED ROADWAY WIDTH.
2. WIDTH OF RADIUS AS REQUIRED TO ENSURE VEHICLES DO NOT TRACK ONTO PUBLIC ROAD.
3. MAINTENANCE AS REQUIRED TO PREVENT TRACKING ONTO PUBLIC ROADS. THIS MAY REQUIRE TOP DRESSING WITH ADDITIONAL ROCK OR REMOVAL AND REINSTALLATION OF THE ENTRANCE AS NEEDED.

NOT TO SCALE

APPROVED: 1 - 2016

**City of RAMSEY**

STANDARD DETAILS: ROCK CONSTRUCTION ENTRANCE

CITY PLATE No. ERO-5

TABLE A

MODIFIED CLASS 5 SPECIFICATIONS

% PASSING

1"	100
3/4"	90 - 100
3/8"	50 - 80
No.4	35 - 70
No.10	20 - 60
No.40	10 - 35
No.200	5 - 10

NOTES:

1. THE AGGREGATE BASE CONSTRUCTION WILL BE ACCEPTED FOR PAYMENT IN ACCORDANCE WITH THE PROVISIONS IN TABLE A.
2. IF THE AGGREGATE BASE FAILS TO MEET THE REQUIREMENTS OF TABLE A THE MATERIAL CAN BE CORRECTED IN PLACE OR REMOVED AND REPLACED WITH MATERIAL THAT MEET THE REQUIREMENTS OF TABLE A.
3. IN THE EVENT THAT RECYCLED MATERIAL IS USE IT MUST MEET MNDOT REQUIREMENTS FOR RECYCLED BASE.

APPROVED: 2 - 2003

**City of RAMSEY**

STANDARD DETAILS: MODIFIED CLASS 5 SPECIFICATIONS

CITY PLATE No. STR-26

MNDOT 2016 SPEC

MNDOT 2016 SPEC TABLE 3877-1 COMMON TOPSOIL BORROW

REQUIREMENT	RANGE	TEST METHOD
MATERIAL PASSING THE 3/4 IN [19MM]	100%	ASTM D 422
MATERIAL PASSING NO. 4 [4.75MM]	>85%	-
CLAY	5% - 35%	ASTM D 422
SILT	5% - 70%	ASTM D 422
SAND	10% - 75%	ASTM D 422
ORGANIC MATTER	3% - 15%	ASTM D 2974
pH	6.1-7.8	ASTM G 51

NOTE:

1. INSTALLATION OF 4" OF TOPSOIL MEETING MNDOT SPECIFICATION 3877A COMMON TOPSOIL BORROW, MAY BE REQUIRED ACROSS ALL DISTURBED AREAS.
2. A SOIL CERTIFICATION FROM A GEOTECHNICAL FIRM MUST BE PROVIDED VERIFYING THE TOPSOIL MEETS SPECIFICATION ALONG WITH LOAD TICKETS TO VERIFY THE SOURCE OF MATERIAL AND QUANTITY.
3. TOPSOIL MUST COME FROM A CITY APPROVED SOURCE.

APPROVED: 1 - 2016

**City of RAMSEY**

CITY PLATE No. ERO-6

STANDARD DETAILS: TOPSOIL REQUIREMENTS

TYPICAL SECTION

DITCH SECTION

NOTES:

1. SEE CITY PLATE STR-26
2. SEE CITY PLATE ERO-6
3. APPROVED TOPSOIL MUST MEET ORGANIC CONTENT SPECIFICATIONS FOR ENTIRE BOULEVARD IN AREAS INCLUDING BOULEVARD TREES.

NOTE: NOT TO SCALE

APPROVED: 1 - 2016

**City of RAMSEY**

CITY PLATE No. PARK-1

STANDARD DETAILS: BITUMINOUS TRAIL

EDGE OF PAVEMENT

TRUNCATED DOME PANELS

4" THICK CONCRETE WALK TO EDGE OF PAVEMENT

PLACE DOMES UP TO EDGE OF CONCRETE

TRUNCATED DOME 2'x2' PANEL

4" THICK CONCRETE WALK

NOTE:

1. SAWCUT BIT FULL DEPTH / REMOVE BIT.
2. PLACE 6" THICK CONCRETE FOR TRUNCATED DOMES UP TO EDGE OF PAVEMENT.
3. MEDIUM BROOM FINISH ON CONCRETE.
4. MAINTAIN 3" FROM EDGE OF TRUNCATED DOMES AND CONCRETE EDGE.
5. IT MAY BE NECESSARY TO TRIM TRUNCATED DOME PANELS.

NOTE: NOT TO SCALE

APPROVED: 7 - 2015

**City of RAMSEY**

STANDARD DETAILS: TRUNCATED DOME PLACEMENT - BITUMINOUS TRAIL NO CURB

CITY PLATE No. STR-28

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NAME: \_\_\_\_\_ LIC. NO. \_\_\_\_ DATE 00-00-2018

DESIGNED: BJH

DRAWN: BJH

CHECKED: ..

**LITB**

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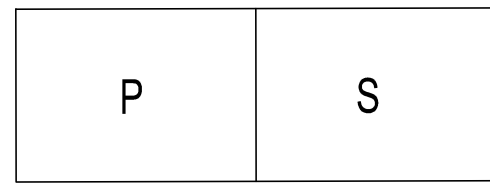
RUM RIVER PRAIRIE DEVELOPMENT

DETAILS

SHEET D1



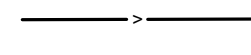
# LINE TYPE & SYMBOL LEGEND



DRAIN FIELD LOC.  
P = PRIMARY  
S = SECONDARY

A

FLARED END SECTION



CULVERT



PROPOSED WELL LOC.



SOIL BORING LOC. W/ NUMBER



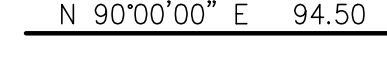
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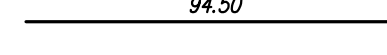
EXISTING TREE (REMOVE)



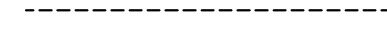
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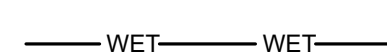
PLAT BOUNDARY



LOT LINE



RW



SETBACK



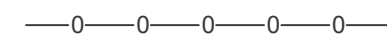
WETLAND EDGE



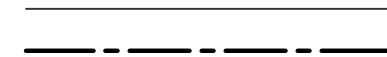
PROPOSED CONTOUR



EXISTING CONTOUR



EASEMENT



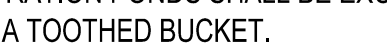
SILT FENCE



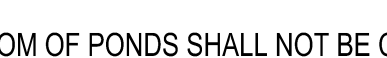
TREE FENCE



EDGE OF BIT.



CENTERLINE



FUTURE BIT. TRAIL

**POND NOTES**  
INFILTRATION PONDS SHALL BE EXCAVATED BY USE OF BACKHOE WITH A TOOTHED BUCKET.  
BOTTOM OF PONDS SHALL NOT BE COMPACTED.  
NO TOPSOIL TO BE PLACED IN PONDS.  
PONDS TO BE SEEDED WITH MnDOT SEED MIX 33-262 (44 lb/ac).  
PLACE SILT FENCE (SECONDARY) IMMEDIATELY AFTER GRADING COMPLETION. THIS FENCING TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED IN THE PONDS.  
ACCESS TO PONDS VIA EASEMENTS.

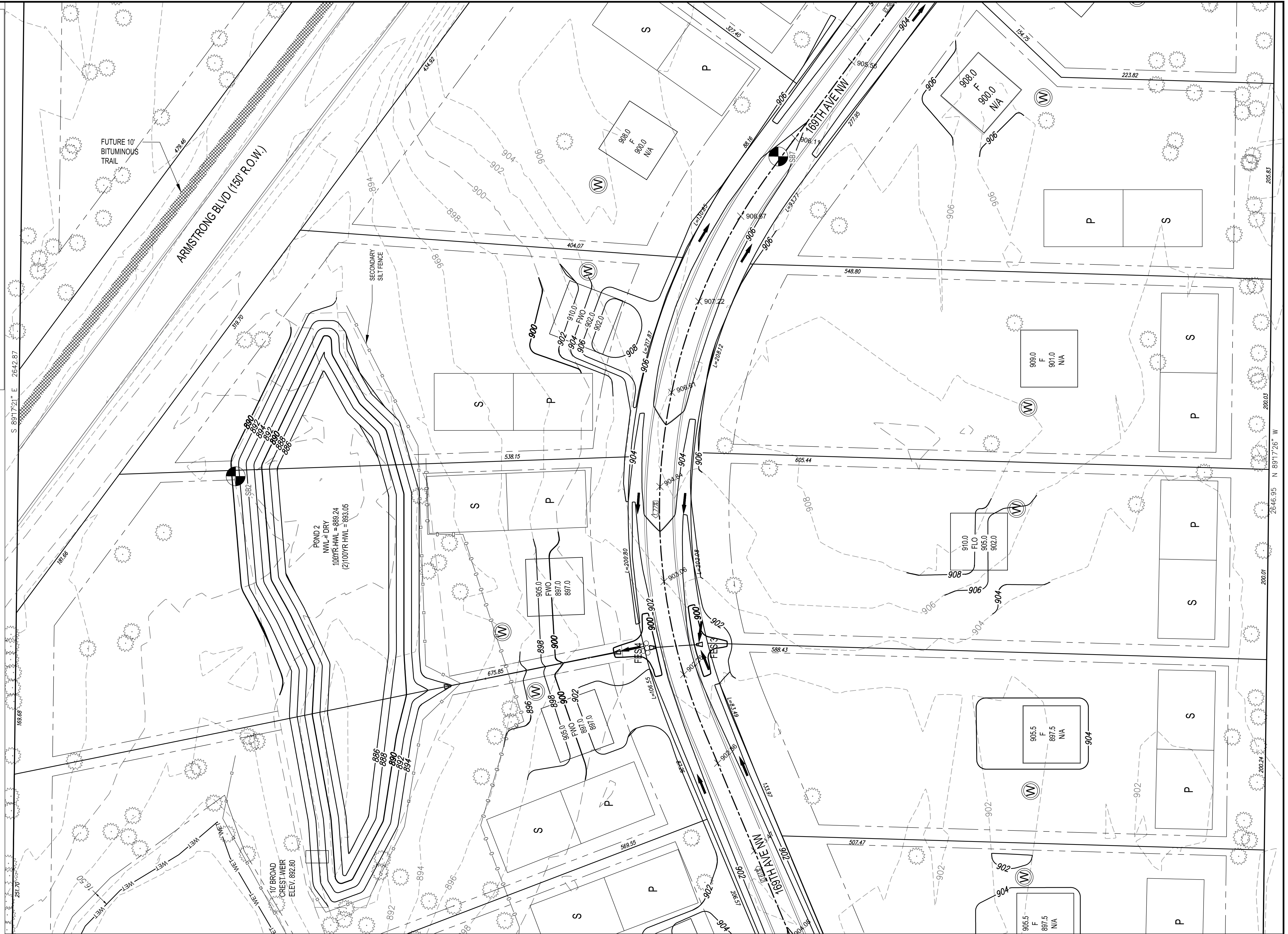
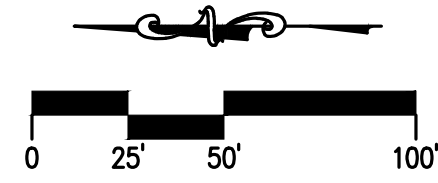
NOTE: STREETS TO BE SWEEPED DAILY OR AS DIRECTED BY THE CITY ENGINEER.

NOTE: NO ACTIVITY, OTHER THAN THE CONSTRUCTION OF, SHALL BE ALLOWED IN THE INFILTRATION POND AREAS.

NOTE: TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY BY MEANS OF FENCING OR OTHER APPROVED METHOD. TREE FENCING TO BE PLACED BY HAND AND PRIOR TO SILT FENCE PLACEMENT.

NOTE: BUILDING PADS & DRAINFIELD SITE FOR GRAPHICAL PURPOSES ONLY. ACTUAL LOCATION MAY VARY.

NOTE: DRAINFIELD LOCATIONS, WHEN DETERMINED, ARE TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES.



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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: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

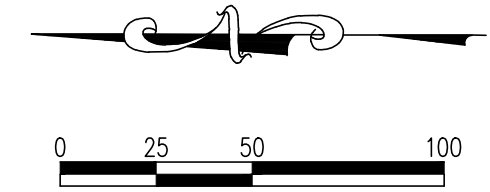
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**DESIGN.**  
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RUM RIVER PRAIRIE DEVELOPMENT

SITE GRADING PLAN

SHEET G2

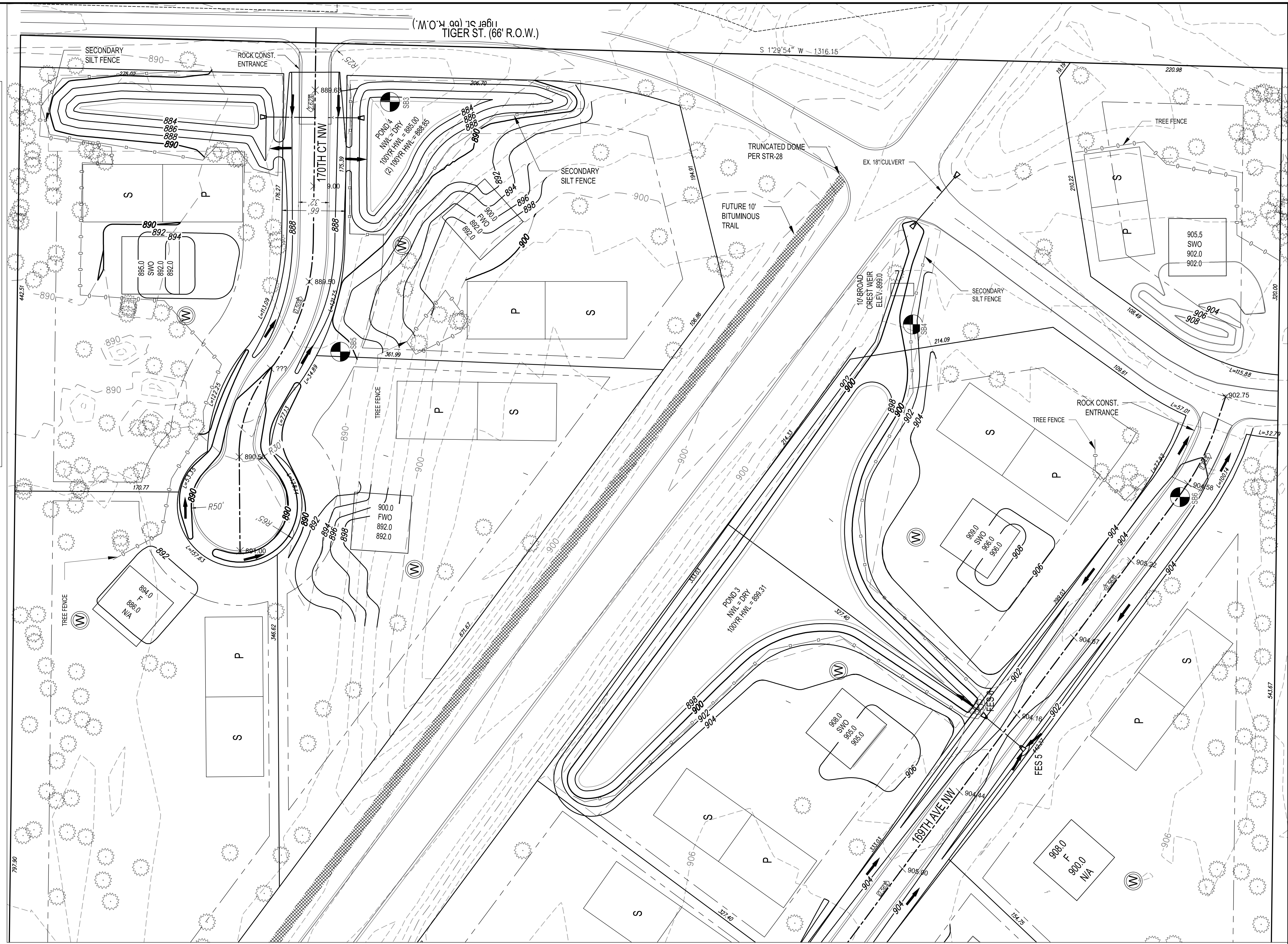
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### LINE TYPE & SYMBOL LEGEND

P	S	DRAIN FIELD LOC. P = PRIMARY S = SECONDARY
A		FLARED END SECTION
		CULVERT
W		PROPOSED WELL LOC.
SB1		SOIL BORING LOC. W/ NUMBER
(Tree symbol)		EXISTING TREE (PRESERVE)
(Tree symbol with X)		EXISTING TREE (REMOVE)
(Arrow)		DRAINAGE FLOW ARROW
(Dashed line)		PLAT BOUNDARY
(Dashed line)		LOT LINE
(Dashed line)		R/W
(Dashed line)		SETBACK
(Dashed line)		WETLAND EDGE
(Dashed line)		PROPOSED CONTOUR
(Dashed line)		EXISTING CONTOUR
(Dashed line)		EASEMENT
(Dashed line)		SILT FENCE
(Dashed line)		TREE FENCE
(Dashed line)		EDGE OF BIT.
(Dashed line)		CENTERLINE
(Dashed line)		FUTURE BIT. TRAIL

**POND NOTES**  
 INFILTRATION PONDS SHALL BE EXCAVATED BY USE OF BACKHOE WITH A TOOTHED BUCKET.  
 BOTTOM OF PONDS SHALL NOT BE COMPACTED.  
 NO TOPSOIL TO BE PLACED IN PONDS.  
 PONDS TO BE SEEDED WITH MnDOT SEED MIX 33-262 (44 lb/ac).  
 PLACE SILT FENCE (SECONDARY) IMMEDIATELY AFTER GRADING COMPLETION. THIS FENCING TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED IN THE PONDS.  
 ACCESS TO PONDS VIA EASEMENTS.  
 NOTE: STREETS TO BE SWEEPED DAILY OR AS DIRECTED BY THE CITY ENGINEER.  
 NOTE: NO ACTIVITY, OTHER THAN THE CONSTRUCTION OF, SHALL BE ALLOWED IN THE INFILTRATION POND AREAS.  
 NOTE: TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY BY MEANS OF FENCING OR OTHER APPROVED METHOD. TREE FENCING TO BE PLACED BY HAND AND PRIOR TO SILT FENCE PLACEMENT.  
 NOTE: BUILDING PADS & DRAINFIELD SITE FOR GRAPHICAL PURPOSES ONLY. ACTUAL LOCATION MAY VARY.  
 NOTE: DRAINFIELD LOCATIONS, WHEN DETERMINED, ARE TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES.



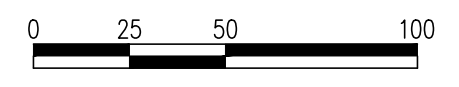
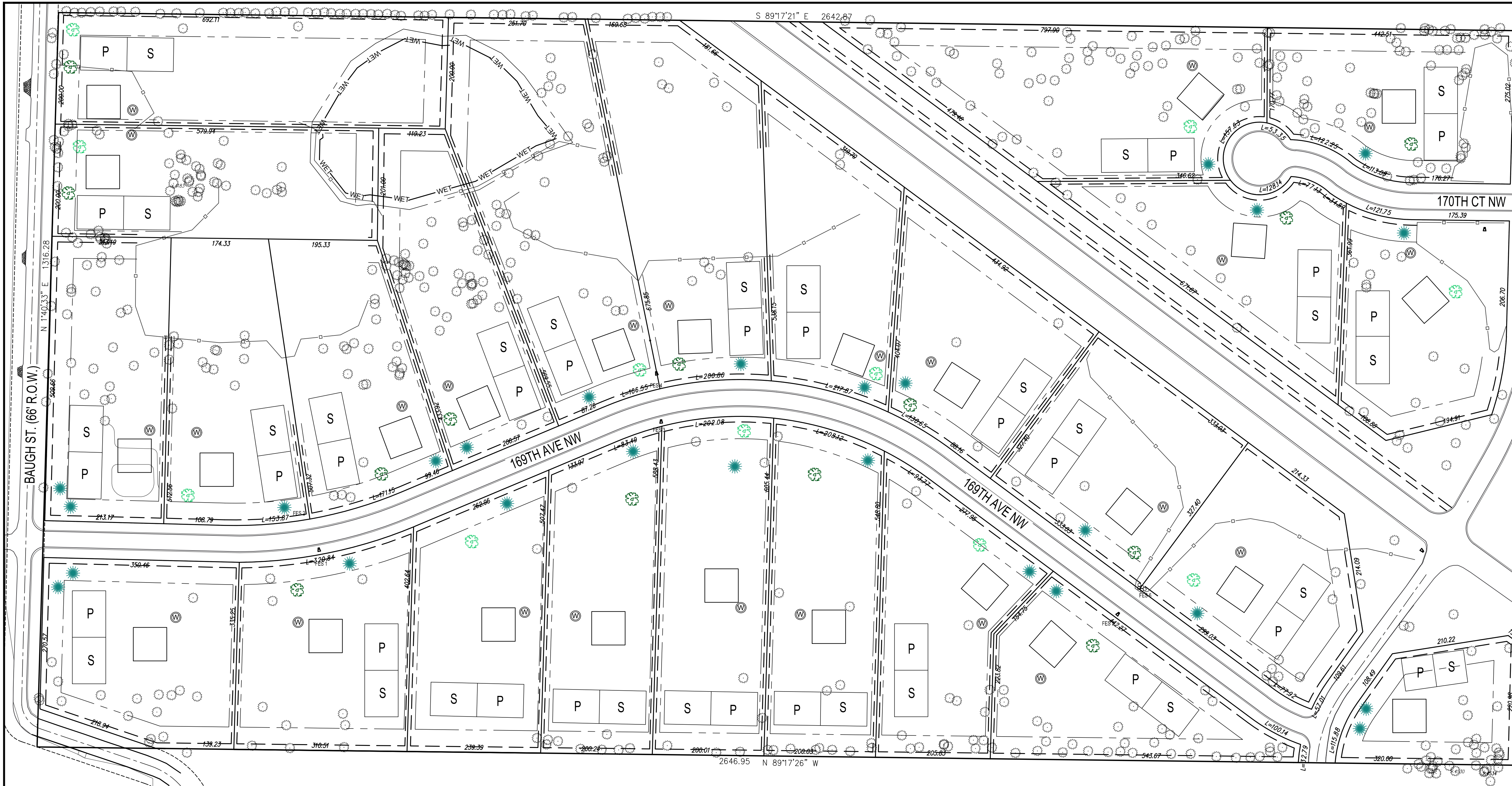
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 NAME: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

DESIGNED: BJH  
 DRAWN: BJH  
 CHECKED: \_\_\_\_\_  
  
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## RUM RIVER PRAIRIE DEVELOPMENT

SITE GRADING PLAN  
 SHEET G3

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TREE PROTECTION FENCE SHALL BE INSTALLED AND THE LOCATION APPROVED BY THE CITY BEFORE COMMENCEMENT OF OTHER WORK, INCLUDING SILT FENCE INSTALLATION.

AN ARBORIST SHALL BE CONSULTED TO DEVELOP A PLAN TO PROTECT EXISTING OAK TREES FROM OAK WILT.

ANY CLEARING OF OAK TREES SHALL BE PERFORMED PRIOR TO APRIL 15TH OR AFTER JULY 15TH TO MINIMIZE EXPOSURE OR INTRODUCTION OF OAK WILT.

PLANTING DEPTH SHALL BE SUCH THAT THE 1ST SITE OF PRIMARY ROOTS IS AT FINISHED GRADE.

ONLY PRUNE OUT DEAD/BROKEN/DEFORMED BRANCHES AT TIME OF INSTALLATION.

REMOVAL OF UPPER PORTION OF WIRE BASKET AND BURLAP AFTER BEING PLACED IN PLANTING HOLE IF USING B&B STOCK.

2-4 INCHES OF WOOD CHIP MULCH SHALL BE INCLUDED AROUND ALL TREES. MULCH SHALL NOT BE PILED AGAINST THE TRUNK OF TREES.

TOPSOIL: EACH INDIVIDUAL LOT WILL NEED TO HAVE FOUR (4) INCHES OF TOPSOIL MEETING THE CITY'S TOPSOIL SPECIFICATION. A TOPSOIL INSPECTION IS REQUIRED PRIOR TO LANDSCAPING BEING INSTALLED AND COPIES OF THE LOAD TICKETS ARE REQUIRED AS WELL. THIS IS REVIEWED AT TIME OF BUILDING PERMIT APPLICATION AND REQUEST FOR CERTIFICATE OF OCCUPANCY FOR EACH INDIVIDUAL LOT.

**PLANTING REQUIREMENTS**

TREES:  
 OVERSTORY DECIDUOUS TREES 1" DIAMETER MEASURE 6' FROM THE BASE AT PLANTING

CONIFEROUS TREES MUST HAVE A MINIMUM HEIGHT OF 6'

- MINIMUM 25% DECIDUOUS AND CONIFEROUS

**PROPOSED CONIFEROUS TREES/QTY**

DENOTES BLACK HILLS SPRUCE (PICEA GLAUCA DENSATA) 26 EACH

**PROPOSED DECIDUOUS TREES/QTY**

DENOTES RED MAPLE (ACER RUBRUM) 11 EACH

DENOTES AMERICAN LINDEN (TILIA AMERICANA) 13 EACH

**LINE TYPE & SYMBOL LEGEND**

		DRAIN FIELD LOC. P = PRIMARY S = SECONDARY
		FLARED END SECTION
		CULVERT
		PROPOSED WELL LOC.
		SOIL BORING LOC. W/ NUMBER
		EXISTING TREE (PRESERVE)
		EXISTING TREE (REMOVE)
		DRAINAGE FLOW ARROW
		PLAT BOUNDARY
		LOT LINE
		RW
		SETBACK
		WETLAND EDGE
		PROPOSED CONTOUR
		EXISTING CONTOUR
		EASEMENT
		SILT FENCE
		TREE FENCE
		EDGE OF BIT.
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		FUTURE BIT. TRAIL

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: \_\_\_\_\_ LIC. NO. \_\_\_\_ DATE 00-00-2018

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**RUM RIVER PRAIRIE DEVELOPMENT**

**TREE PLANTING PLAN**

SHEET L1

# PRELIMINARY PLAT OF: RUM RIVER PRAIRIE

**OWNER/DEVELOPER**

Brookview Estates, LLC  
6210 Green Valley Road  
Ramsey, MN 55303

**PROPERTY DESCRIPTION**

S 1/2 of the NE 1/4 of Section 7, Township 32, Range 25

**NOTE**

Proposed septic areas shown hereon are approximate and for informational purposes only. It is the responsibility of the landowner to determine a final location for the septic area.

**NET DENSITY**

25 Single-Family dwellings  
1 Dwelling per 2.67 Acres (Including Block 4 Lot 1, which has a variance to allow smaller area)

**ZONING**

Rum River Prairie - R-1: Rural Developing (outside MUSA)

East, North, and West - R-1: Rural Developing (outside MUSA)

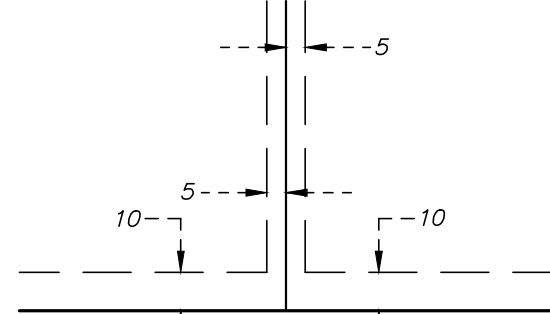
South - PUD: Planned Unit Development

**SETBACKS**

Front: 40'  
Side: 10'  
Rear: 40'



DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



BEING 5 FEET IN WIDTH AND ADJOINING SIDE LOT LINES, ALSO BEING 10 FEET IN WIDTH AND ADJOINING RIGHT-OF-WAY AND REAR LOT LINES, UNLESS OTHERWISE SHOWN ON THIS PLAT.

**LOT AREA TABULATION**

Block/Lot	Area (s.f.)	Area (Acres)
<b>BLOCK 1</b>		
LOT 1	139,816 s.f.	3.21 Acres
LOT 2	116,856 s.f.	2.68 Acres
LOT 3	108,955 s.f.	2.50 Acres
LOT 4	111,933 s.f.	2.57 Acres
LOT 5	108,937 s.f.	2.50 Acres
LOT 6	109,299 s.f.	2.51 Acres
LOT 7	175,192 s.f.	4.02 Acres
LOT 8	158,816 s.f.	3.65 Acres
LOT 9	108,959 s.f.	2.50 Acres
LOT 10	108,900 s.f.	2.50 Acres
LOT 11	109,830 s.f.	2.52 Acres
LOT 12	108,901 s.f.	2.50 Acres
<b>BLOCK 2</b>		
LOT 1	110,919 s.f.	2.55 Acres
LOT 2	111,266 s.f.	2.55 Acres
LOT 3	108,917 s.f.	2.50 Acres
LOT 4	110,202 s.f.	2.53 Acres
LOT 5	120,579 s.f.	2.77 Acres
LOT 6	116,740 s.f.	2.68 Acres
LOT 7	109,148 s.f.	2.51 Acres
LOT 8	108,972 s.f.	2.50 Acres
<b>BLOCK 3</b>		
LOT 1	108,935 s.f.	2.50 Acres
LOT 2	109,019 s.f.	2.51 Acres
LOT 3	161,200 s.f.	3.70 Acres
LOT 4	108,974 s.f.	2.50 Acres
<b>BLOCK 4</b>		
LOT 1	59,760 s.f.	1.37 Acres
<b>R.O.W.</b>	570,582 s.f.	13.10 Acres
<b>TOTAL</b>	3,481,607 s.f.	79.93 Acres

**LEGEND**

- DENOTES BUILDING SETBACK LINE
- DENOTES DRAINAGE AND UTILITY EASEMENT
- x 250 SEPTIC BORING LOCATION AND NUMBER

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Kyle J. Roddy*  
KYLE J. RODDY, MN LIC. NO. 42627 DATED: 12/26/17

# STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

## 1. GENERAL

THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) REGULATES STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE THROUGH A GENERAL PERMIT (PERMIT NO. MN R100001) AUTHORIZING THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF THE STATE IN COMPLIANCE WITH THE CLEAN WATER ACT AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM. THE GENERAL PERMIT (PERMIT) REQUIRES THE DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP IS A COMBINATION OF NARRATIVE, PLANS SHEETS, AND STANDARD DETAIL SHEETS THAT ADDRESS THE FORESEEABLE CONDITIONS AT ANY STAGE IN THE CONSTRUCTION OR POST-CONSTRUCTION ACTIVITIES.

## 2. ADMINISTRATIVE REQUIREMENTS

- A. **RESPONSIBLE PARTIES:** THE OWNER AND GENERAL CONTRACTOR (CONTRACTOR) ARE CO-PERMITTEES OF THE PERMIT AND ARE JOINTLY RESPONSIBLE FOR COMPLIANCE WITH TERMS AND CONDITIONS OF THE PERMIT. OBTAIN A COPY OF THE PERMIT AND COMPLY WITH PARTS II.B, II.C, II.B-F, IV, V, AND APPLICABLE CONSTRUCTION ACTIVITY REQUIREMENTS FOUND IN APPENDIX A, PART C OF THE PERMIT. VERIFY THAT PERMIT REQUIREMENTS ARE SATISFIED AND COMPLETE THE BLANKS ON THIS SWPPP SHEET.
- B. **PERMIT APPLICATION:** THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE PERMIT APPLICATION ON-LINE AND PAYING THE APPLICATION FEE. OWNER AND CONTRACTOR MUST BOTH SIGN THE APPLICATION. OBTAIN A COPY OF THE PERMIT AND APPLY ON-LINE AT THE MPCA CONSTRUCTION STORM WATER WEBSITE: <http://www.pca.state.mn.us/water/stormwater/stormwater-c.html>.
- C. **PERMIT COVERAGE:** PERMIT COVERAGE TYPICALLY BECOMES EFFECTIVE SEVEN (7) CALENDAR DAYS AFTER THE ELECTRONIC SUBMITTAL DATE. DO NOT BEGIN LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL PERMIT COVERAGE IS EFFECTIVE. THE START OF ANY LAND DISTURBING ACTIVITIES SIGNIFIES THAT THE CONTRACTOR IS ASSUMING RESPONSIBILITY FOR PERMIT COVERAGE AND HAS COMPLIED WITH PERMIT REQUIREMENTS.
- D. **NOTIFICATION OF COVERAGE:** THE CONTRACTOR WILL RECEIVE A NOTIFICATION OF COVERAGE FROM THE MPCA (E.G., VIA EMAIL, ONLINE NOTIFICATION, OR LETTER). KEEP OR POST A COPY OF THE NOTIFICATION OF COVERAGE WITH THE SWPPP AT THE PROJECT SITE. PROVIDE COPIES TO THE OWNER AND ENGINEER.
- E. **CHANGE OF COVERAGE FOR NEW OWNER OR NEW OPERATOR (CONTRACTOR):** FOR A NEW OWNER OR OPERATOR, THE CURRENT OWNER, AND NEW OWNER OR OPERATOR, MUST SUBMIT A PERMIT MODIFICATION FORM PRIOR TO THE NEW OWNER OR OPERATOR COMMENCING CONSTRUCTION ACTIVITY. CONTACT THE MPCA AT 800-657-3864 FOR THIS FORM. THE CURRENT OWNER MUST ALSO SUBMIT A NOTICE OF TERMINATION (NOT) FORM AS NOTED BELOW WHEN THE OWNERSHIP OF THE PROPERTY CHANGES, AS NOTED BELOW.
- F. **TERMINATION OF COVERAGE:** THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER AND TERMINATING PERMIT COVERAGE BY COMPLETING AND SUBMITTING A NOTICE OF TERMINATION (NOT) FORM TO THE MPCA. A NOTICE OF TERMINATION MUST BE SUBMITTED WITHIN 30 DAYS AFTER FINAL STABILIZATION HAS BEEN ESTABLISHED FOR THE SITE AND CONSTRUCTION ACTIVITY IS COMPLETE, OR WHEN THE OWNER OR OPERATOR CHANGES. COMPLIANCE WITH PERMIT REQUIREMENTS IS REQUIRED UNTIL SUBMISSION OF A NOTICE OF TERMINATION.
- G. **RECORD RETENTION:** THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION. THIS DOCUMENTATION MUST BE KEPT ON FILE FOR 3 YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION. COORDINATE TRANSFER OF THIS DOCUMENTATION TO THE OWNER AT PROJECT COMPLETION.
- H. **CHANGES (AMENDMENTS) TO SWPPP:** UPDATE AND DOCUMENT CHANGES TO THE SWPPP AS NECESSARY DURING CONSTRUCTION, AND AS REQUIRED BY THE PERMIT ACCORDING TO PART III.B OF THE PERMIT.

## 3. CONSTRUCTION ACTIVITY REQUIREMENTS

- A. **GENERAL:** COMPLY WITH PART IV.A OF THE PERMIT TO IMPLEMENT THE SWPPP AND THE REQUIREMENTS OF THE PERMIT. THE BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE SWPPP AND PERMIT MUST BE SELECTED, INSTALLED, AND MAINTAINED IN AN APPROPRIATE AND FUNCTIONAL MANNER IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, MANUFACTURER RECOMMENDATIONS, AND ACCEPTED ENGINEERING PRACTICES.
- B. **EROSION PREVENTION PRACTICES:** PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY PART IV.B OF THE PERMIT. STABILIZE EXPOSED SOIL AREAS AS SOON AS POSSIBLE, BUT IN NO CASE LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. AMEND SWPPP BY INDICATING THE LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS. COMMON EROSION PREVENTION PRACTICES INCLUDE:
  - 1) MARKING AND DELINEATING AREAS OF THE SITE NOT TO BE DISTURBED (WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.).
  - 2) STABILIZE THE LAST 200 LINEAL FEET OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE WITHIN 24 HOURS AFTER CONNECTING TO RECEIVING SURFACE WATER OR STORM SEWER INLET.
  - 3) "INITIATE IMMEDIATELY" (SEE APPENDIX B FOR DEFINITION) SOIL STABILIZATION AS SOON AS EARTH-DISTURBING ACTIVITIES HAVE CEASED.
  - 4) PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION TO PIPE OUTLETS WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER.
  - 5) WHERE FEASIBLE THE DESIGN OF THE SITE DIRECTS STORMWATER TO VEGETATED AREAS, TO INCREASE SEDIMENT REMOVAL.
- C. **SEDIMENT CONTROL PRACTICES:** PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES THAT MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS, INCLUDING BUT NOT LIMITED TO, CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS TO SATISFY PART IV.C OF THE PERMIT. PROVIDE TEMPORARY SEDIMENTATION BASINS WHERE 5 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION AS APPROVED BY LHB (SEE PART III.C OF THE PERMIT FOR BASIN REQUIREMENTS). COMMON SEDIMENT CONTROL PRACTICES INCLUDE:
  - 1) MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.
  - 2) ALL SEDIMENT CONTROL BMPs MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES CAN BEGIN AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ESTABLISHED.
  - 3) THE TIMING FOR SEDIMENT CONTROL BMPs MAY BE ADJUSTED TO ACCOMMODATE SHORT-TERM CONSTRUCTION ACTIVITIES, SUCH AS PASSAGE OF VEHICLES, AND MUST BE COMPLETED AS QUICKLY AS POSSIBLE. SEDIMENT CONTROL BMPs MUST BE INSTALLED IMMEDIATELY AFTER SHORT-TERM

CONSTRUCTION IS COMPLETE, OR BEFORE THE NEXT PRECIPITATION EVENT IF THE ACTIVITY IS NOT COMPLETE.

- 4) PROTECT ALL STORM DRAIN INLETS WITH APPROPRIATE BMPs DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY ONLY BE REMOVED EARLIER IF SPECIFIC SAFETY CONCERNS (STREET FLOODING/FREEZING) HAVE BEEN BROUGHT FORTH IN WRITING BY JURISDICTIONAL AUTHORITY.
- 5) TEMPORARY STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS, AND CANNOT BE PLACED IN ANY SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS OR DITCHES.
- 6) TEMPORARY SEDIMENT BASIN OUTLET STRUCTURES MUST BE DESIGNED TO WITHDRAW WATER FROM THE SURFACE.
- 7) ALL VEHICLE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE, OR ONTO STREETS WITHIN THE SITE, MUST BE MINIMIZED BY BMPs SUCH AS STONE PADS, CONCRETE OR STEEL WASH RACKS, OR EQUIVALENT SYSTEMS. STREET SWEEPING MUST BE PERFORMED IF BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREETS / ROADWAYS.
- D. **DEWATERING AND BASIN DRAINING:** COMPLY WITH PART IV.D OF THE PERMIT. ENSURE THAT ALL WATER FROM DEWATERING OR BASIN DRAINING ACTIVITIES IS DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR DOWNSLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACTS TO THE WETLANDS. ANY TURBID OR SEDIMENT LADEN DISCHARGE WATER MUST BE ADEQUATELY TREATED BY DISCHARGING TO A SEDIMENTATION BASIN WHENEVER FEASIBLE, OR TREATED WITH APPROPRIATE BMPs IF THE WATER CANNOT BE DISCHARGED TO A SEDIMENT BASIN. THE CONTRACTOR MUST VISUALLY CHECK THE TREATED STORMWATER PRIOR TO DISCHARGING TO RECEIVING WATERS TO ENSURE ADEQUATE TREATMENT IS BEING MET AND THAT THE DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. BACKWASH WATER FROM FILTRATION MUST BE INCORPORATED INTO THE SITE IN A NON-EROSIVE MANNER, OR DISCHARGED TO THE SANITARY SEWER WITH PERMISSION FROM THE SANITARY SEWER AUTHORITY. SEE SHEET 0.10 FOR ADDITIONAL REQUIREMENTS.
- E. **INSPECTIONS:** THE CONTRACTOR MUST ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS DURING CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES OVER 24 HOURS. CONTRACTOR SHALL PROVIDE A RAIN GAGE OR ANOTHER METHOD TO MEASURE RAINFALL. INSPECTION OF AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH. THE CONTRACTOR SHALL RECORD IN WRITING WITHIN 24 HR ALL INSPECTION AND MAINTENANCE ACTIVITY ON FORMS WITH INFORMATION REQUIRED BY PART IV.E.2 OF THE GENERAL STORMWATER PERMIT. THESE RECORDS SHALL BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:
  - 1) DATE AND TIME OF INSPECTIONS
  - 2) NAME OF PERSON(S) CONDUCTING INSPECTIONS
  - 3) FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED
  - 4) CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES)
  - 5) DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCH (0.5 INCHES) IN 24 HOURS. RAINFALL AMOUNTS MUST BE OBTAINED BY A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION THAT IS WITHIN 1 MILE OF THE PROJECT SITE OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES.
  - 6) IF ANY DISCHARGE IS OBSERVED TO BE OCCURRING DURING THE INSPECTION, A RECORD OF ALL POINTS OF THE PROPERTY FROM WHICH THERE IS A DISCHARGE MUST BE MADE, AND THE DISCHARGE SHOULD BE DESCRIBED (I.E., COLOR, ODOR, FLOATING, SETTLED, OR SUSPENDED SOLIDS, FOAM, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) AND PHOTOGRAPHED.
  - 7) ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN PART III.B. WITHIN SEVEN (7) CALENDAR DAYS.
- F. **MAINTENANCE:** ALL NONFUNCTIONAL BMPs MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs WITHIN 24 HOURS AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS. COMMON ROUTINE MAINTENANCE ACTIVITIES INCLUDE:
  - 1) ALL SILT FENCE MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE FENCE HEIGHT WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
  - 2) DRAIN ALL TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES ½ THE STORAGE VOLUME WITHIN 72 HOURS OF DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
  - 3) INSPECT AND REMOVE ALL DEPOSITED SEDIMENT FROM STORMWATER CONVEYANCE SYSTEMS (DITCHES, CURB AND GUTTERS, CATCH BASINS, ETC.) AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL WITHIN 7 DAYS OF DISCOVERY OR AFTER OBTAINING PERMISSION FROM JURISDICTIONAL AUTHORITIES.
  - 4) REMOVE ANY TRACKED SEDIMENT FROM ALL PAVED SURFACES WITHIN 24 HOURS AFTER DISCOVERY OR SOONER AS REQUIRED FOR PERMIT COMPLIANCE.
  - 5) REMOVE ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS AND SAFETY HAZARDS.
  - 6) PROTECT INFILTRATION AREAS FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT PATHS AND PREVENT SEDIMENT FROM REACHING INFILTRATION AREAS.
  - 7) OPERATE, MAINTAIN, AND INSPECT ANY TEMPORARY OR PERMANENT WATER QUALITY MANAGEMENT BMPs TO ENSURE ADEQUATE TREATMENT IS BEING MET.
- G. **POLLUTION PREVENTION MANAGEMENT MEASURES:** COMPLY WITH PART IV.F OF THE PERMIT.
- H. **FINAL STABILIZATION:** ESTABLISH FINAL STABILIZATION FOR THE SITE AS DESCRIBED IN PART IV.G OF THE PERMIT. SPECIFIC CONDITIONS REQUIRED FOR FINAL STABILIZATION INCLUDE:
  - 1) SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSION CONDITIONS.
  - 2) PERMANENT STORMWATER MANAGEMENT SYSTEMS ARE OPERATIONAL AND SEDIMENT IS REMOVED FROM TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND CONVEYANCE SYSTEMS, AND DITCHES ARE STABILIZED WITH FINAL COVER.
  - 3) ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPs ARE

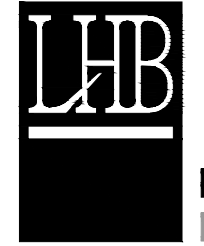
REMOVED. BMPs DESIGNED TO DECOMPOSE MAY BE LEFT IN PLACE.

- 4. SWPPP RESPONSIBILITIES (THE OWNER IS RESPONSIBLE FOR PREPARING AND AMENDING THE SWPPP).
  - A. ON BEHALF OF THE OWNER, THE FOLLOWING PERSON PREPARED THE SWPPP AND IS TRAINED IN SWPPP DESIGN:

NAME:	DAVID POLSON / LHB, INC.
TRAINING DATE/INSTRUCTOR:	CERTIFICATION 2/15 (EXPIRES 5-31-18)
TRAINING CONTENT/HOURS:	DESIGN OF CONSTRUCTION SWPPP
  - B. ON BEHALF OF THE OWNER, THE CONTRACTOR WILL OVERSEE SWPPP IMPLEMENTATION, REVISE AND AMEND THE SWPPP, PERFORM INSPECTIONS, AND SUPERVISE THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPs BEFORE AND DURING CONSTRUCTION. THE FOLLOWING CONTRACTOR REPRESENTATIVE IS TRAINED TO PERFORM THESE DUTIES AND WILL ASSUME THESE RESPONSIBILITIES:

NAME:	_____
TRAINING DATE/INSTRUCTOR:	_____
TRAINING CONTENT/HOURS:	_____
  - C. THE OWNER IS RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM. THE FOLLOWING PERSON IS DESIGNATED TO PERFORM THESE DUTIES:

NAME/TITLE:	_____
MAINTENANCE PLAN:	N/A
  - D. **CHAIN OF RESPONSIBILITY:** THE GENERAL CONTRACTOR IS IN CHARGE OF ALL SWPPP IMPLEMENTATION ON THE CONSTRUCTION SITE AND IS ACCOUNTABLE FOR SUBCONTRACTORS AND OTHER CONTRACTORS WORKING ON SITE AND THEIR COMPLIANCE WITH GENERAL STORMWATER PERMIT AND SWPPP REQUIREMENTS. NOTIFY THE OWNER OF ANY AMENDMENT NEEDED TO THE SWPPP.
- 5. REGULATORY AGENCIES AND PERMITS
  - A. COMPLY WITH REQUIREMENTS OF ALL REGULATORY AGENCIES AND PERMITS HAVING JURISDICTION DURING CONSTRUCTION ACTIVITIES. THE FOLLOWING ADDITIONAL REGULATORS AND PERMITS ARE KNOWN TO HAVE SITE JURISDICTION:
    - 1) ANOKA COUNTY
    - 2) CITY OF RAMSEY
  - B. DESCRIPTION OF THE CONSTRUCTION ACTIVITY / SWPPP COMPONENTS
    - A. **NARRATIVE:**
      - 1) PROJECT SUMMARY: THE PROJECT INVOLVES THE DEVELOPMENT OF 80 ACRES INTO 25 LOTS TO BE SOLD FOR BUILDING OF HOMES. SPECIFIC WORK INCLUDES:
        - a. CLEARING PORTIONS OF THE LAND OF EXISTING VEGETATION.
        - b. GRADING TO SUPPORT CONSTRUCTION OF ROADS, HOUSE PADS, AND STORMWATER INFILTRATION PONDS.
        - c. CONSTRUCTION OF STORMWATER INFILTRATION PONDS AND ACCOMPANYING CULVERTS.
        - d. CONSTRUCTION OF ROADS, AND GRADING FOR HOUSEPADS. .
      - 2) TIMING FOR INSTALLATION OF EROSION & SEDIMENTATION BMPs AND PERMANENT STORMWATER MANAGEMENT SYSTEMS, IN GENERAL SEQUENTIAL ORDER FROM FIRST TO LAST:
        - a. INLET PROTECTION FOR EXISTING INLETS / SILT FENCE / DELINATION AREAS NOT TO BE DISTURBED / ROCK CONSTRUCTION ENTRANCE / TEMPORARY SEDIMENTATION BASIN: PROVIDE PRIOR TO CONSTRUCTION; MAINTAIN DURING CONSTRUCTION.
        - b. SILT FENCE AROUND STOCKPILES: DURING CONSTRUCTION.
        - c. PORTABLE SEDIMENT CONTAINMENT SYSTEMS FOR TREATING WATER FROM DEWATERING OPERATIONS : PROVIDE DURING CONSTRUCTION.
        - d. INLET PROTECTION FOR NEW INLETS: AS CONSTRUCTED.
        - e. HARD SURFACING (E.G., BUILDING ROOFS, PAVEMENTS): AS CONSTRUCTED.
        - f. VEGETATIVE COVER / EROSION CONTROL BLANKETS: AFTER FINAL TOPSOIL PLACEMENT AND FINISH GRADING.
        - g. REMOVAL OF TEMPORARY BMPs: AFTER FINAL STABILIZATION IS ESTABLISHED.



**PERFORMANCE  
DRIVEN DESIGN.**  
LHBcorp.com

21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

CLIENT:  
**NATIONAL GROWTH, LLC.**  
**16521 ROYAL RD.**  
**RAMSEY, MN 55303**

**RAMSEY, MN**

THIS SQUARE APPEARS 1/2" x 1/2" ON FULL SIZE SHEETS.

NO	DATE	ISSUED FOR

NO	DATE	REVISION

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.

SIGNATURE: \_\_\_\_\_

TYPED OR PRINTED NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ REG. NO.: \_\_\_\_\_

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PROJECT NAME:  
**RUM RIVER PRAIRIE  
DEVELOPMENT**

DRAWING TITLE:  
**SWPPP NARRATIVE**

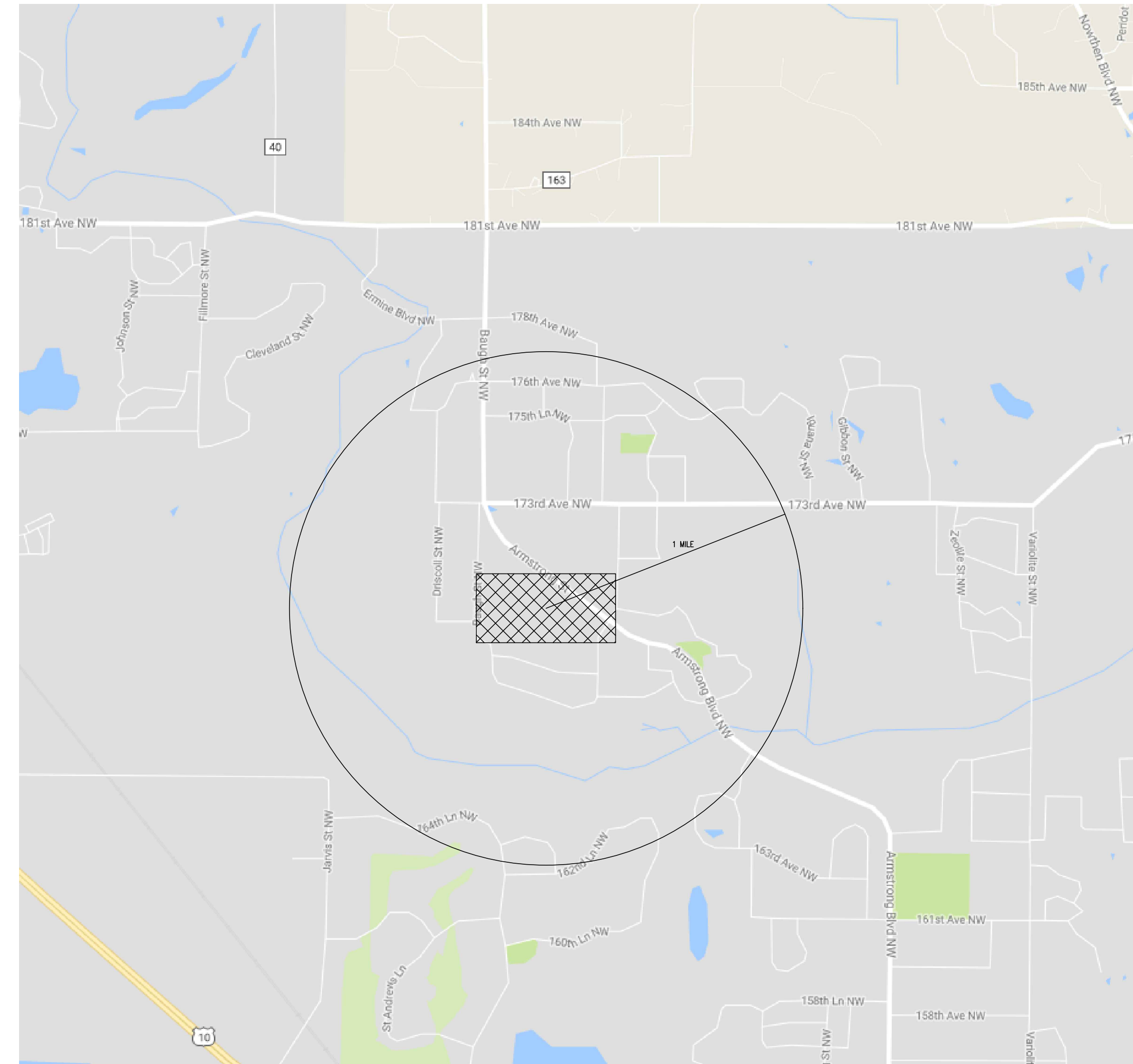
FILE: .les2017170163 Eric Thompen Armstrong Blvd600 Drawings\C170163 SWPP  
DRAWN BY: BJH  
CHECKED BY:  
PROJ. NO: les20  
DRAWING NO:

**SW1**

**SWPPP NARRATIVE (CONT.)**

7. PROCEDURES FOR ESTABLISHING ADDITIONAL BMPs FOR SITE CONDITIONS DURING CONSTRUCTION
  - A. IF ANY DOWN GRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UP GRADIENT SEDIMENT CONTROL OR REDUNDANT BMPs MUST BE INSTALLED BY THE CONTRACTOR TO ELIMINATE THE OVERLOADING CONDITION.
8. METHODS OF FINAL STABILIZATION
  - A. FINAL STABILIZATION WILL BE ACCOMPLISHED BY IMPERVIOUS SURFACING (CONCRETE PAVING, SIDEWALKS, CURB AND GUTTER, ASPHALT PARKING LOTS, ETC.) AND VEGETATIVE GROUND COVERS (SODDING AND SEEDING/MULCHING). SPECIFIC CONSTRUCTION METHODS ARE DESCRIBED IN THE PLANS AND SPECIFICATIONS.
9. PERMANENT STORMWATER MANAGEMENT SYSTEMS
  - A. FOUR INFILTRATION POND SYSTEMS ARE TO BE CONSTRUCTED IN ORDER TO CONTROL STORMWATER RUNOFF.
10. STANDARDS SPECIFICATIONS FOR CONSTRUCTION:
 

UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, ALL MATERIAL AND CONSTRUCTION REQUIREMENTS FOR TEMPORARY SEDIMENT CONTROL AND EROSION PREVENTION SHALL BE IN ACCORDANCE WITH THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.



ESTIMATED QUANTITIES OF BMPs		
BMP	UNIT	QUANTITY
SILT FENCE	LF	686
INLET PROTECTION	EA	9
MNDOT CATEGORY 2 EROSION CONTROL BLANKET	SY	0



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CLIENT:  
**NATIONAL GROWTH, LLC.**  
 16521 ROYAL RD.  
 RAMSEY, MN 55303

**RAMSEY, MN**

THIS SQUARE APPEARS 1/2" x 1/2" ON FULL SIZE SHEETS.

NO DATE ISSUED FOR

NO DATE REVISION

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.

SIGNATURE: \_\_\_\_\_

TYPED OR PRINTED NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ REG. NO.: \_\_\_\_\_

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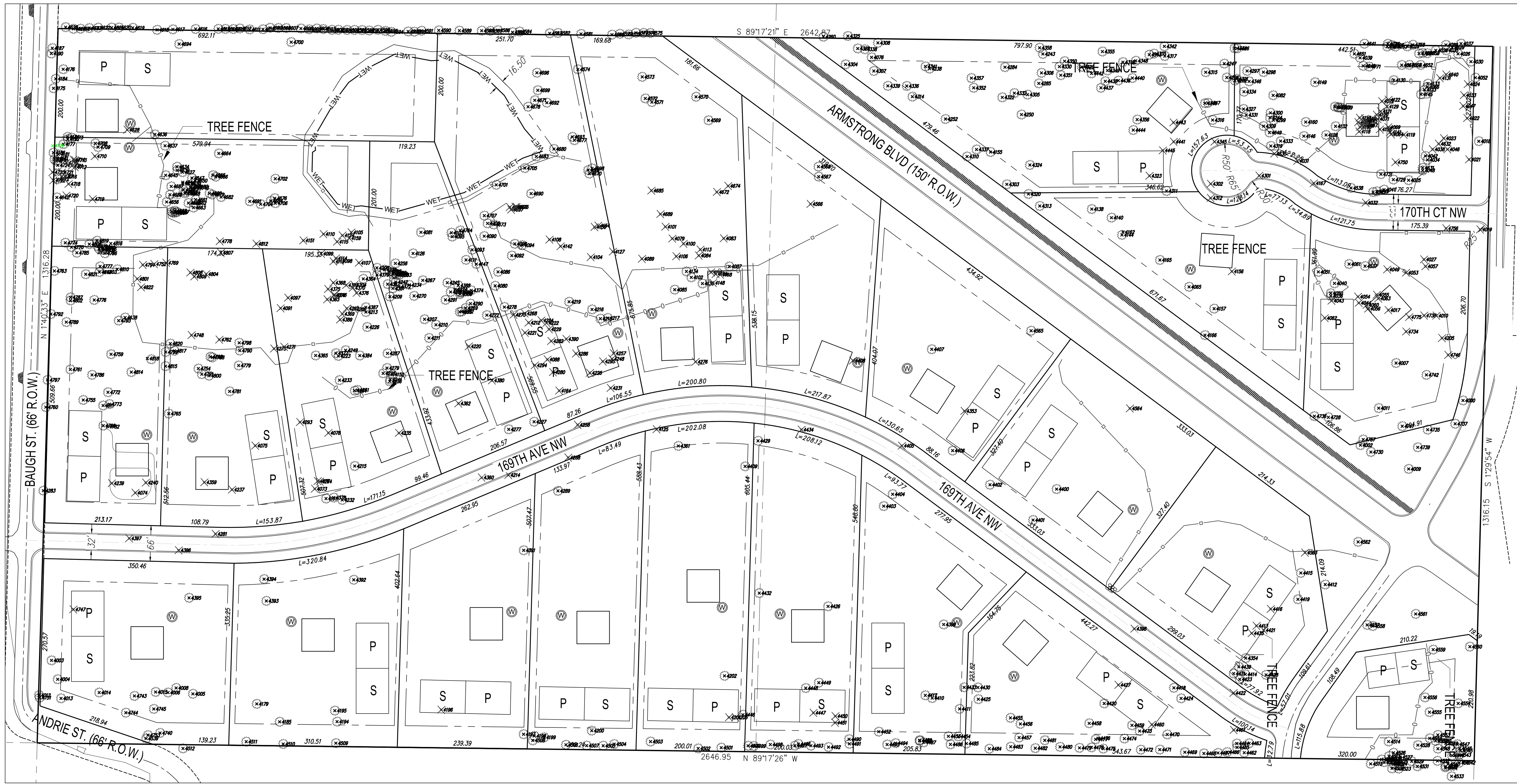
PROJECT NAME:  
**RUM RIVER PRAIRIE DEVELOPMENT**

DRAWING TITLE:  
**SWPPP NARRATIVE AND EXHIBIT**

FILE: .iles2017\170163 Eric Thompsen Armstrong Blvd\600 Drawings\C170163 SWPP  
 DRAWN BY: DRP  
 CHECKED BY: DGS  
 PROJ. NO: les20  
 DRAWING NO:

**SW2**

PLOT DATE: 12/29/2017 10:54:24 AM FILE: C:\Users\bjh\min\Desktop\170163 Eric Thompsons Armstrong Blvd\600 Drawings\Survey\170163 preliminary plot 12-21-17.dwg



LINE TYPE & SYMBOL LEGEND	
	DRAIN FIELD LOC. P = PRIMARY S = SECONDARY
	FLARED END SECTION
	CULVERT
	PROPOSED WELL LOC.
	SOIL BORING LOC. W/NUMBER
	EXISTING TREE (PRESERVE)
	EXISTING TREE (REMOVE)
	DRAINAGE FLOW ARROW

	PLAT BOUNDARY
	LOT LINE
	R/W
	SETBACK
	WETLAND EDGE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	EASEMENT
	SILT FENCE
	TREE FENCE
	EDGE OF BIT.
	CENTERLINE
	FUTURE BIT. TRAIL

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: \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE 00-00-2018

DESIGNED BJH	 <b>PERFORMANCE DRIVEN DESIGN</b> <small>Litcorp.com 21 W. Superior St., Ste. 500   Duluth, MN 55802   218.727.8446</small>
DRAWN BJH	
CHECKED ...	

RUM RIVER PRAIRIE DEVELOPMENT

SITE TREE PLAN  
SHEET T1

# SAVED TREES

Tag ID	Species	DBH	Notes	Tag ID	Species	DBH	Notes	Tag ID	Species	DBH	Notes	Tag ID	Species	DBH	Notes	Tag ID	Species	DBH	Notes	Tag ID	Species	DBH	Notes				
4000	Cottonwood	21		4176	Boxelder	12		4305	Red Cedar	7		4418	Red pine	4	diseased	4521	Red oak	4		4613	Colorado blue spruce	6		4727	Red Cedar	4	
4001	Red Cedar	8		4177	Burr oak	6		4306	Red Cedar	5		4419	Red Cedar	8		4522	Red oak	5		4614	Colorado blue spruce	5		4728	Red Cedar	4	
4002	Red Cedar	5		4178	Burr oak	42		4307	Red Cedar	5		4420	Red Cedar	6		4523	Red oak	5		4615	Colorado blue spruce	5		4729	Siberian Elm	8	
4003	Red Cedar	6		4179	Red Cedar	6		4308	Red Cedar	6		4423	Red Cedar	6		4524	Red oak	5		4616	Colorado blue spruce	4		4730	Siberian Elm	9	
4004	Red Cedar	6		4180	Burr oak	4		4309	Red Cedar	7		4424	Red Cedar	4		4525	Red oak	5		4617	Colorado blue spruce	7		4731	Siberian Elm	17	
4005	Scots pine	7		4181	Red oak	8		4310	Red Cedar	6		4425	Scots pine	8		4526	Red oak	4		4618	Colorado blue spruce	6		4732	Red Cedar	7	
4006	Red Cedar	6		4182	Burr oak	14		4311	Red Cedar	6		4426	Red Cedar	7		4527	Red oak	4		4619	White Spruce	6		4733	Siberian Elm	10	
4007	Red Cedar	5		4183	Red oak	24		4313	Red Cedar	7		4428	Red Cedar	5		4528	Red oak	8		4620	Colorado blue spruce	6		4735	Red Cedar	7	
4008	Red Cedar	6		4184	Boxelder	15		4314	Red Cedar	5		4429	Red Cedar	5		4529	Boxelder	15		4621	Colorado blue spruce	4		4736	Red Cedar	5	
4009	Red Cedar	10		4185	Siberian Elm	8		4315	Red Cedar	6		4430	Red Cedar	5		4530	Burr oak	30	dying	4622	Colorado blue spruce	7		4737	Red Cedar	7	
4011	Red Cedar	6		4186	Burr oak	5		4316	Red Cedar	7		4431	Red Cedar	6		4531	Black cherry	14	dying	4623	Colorado blue spruce	5		4739	Red Cedar	10	
4012	Red Cedar	4		4187	Boxelder	10		4317	Red Cedar	5		4432	Red Cedar	6		4532	Boxelder	8		4624	Colorado blue spruce	7		4740	Red Cedar	5	
4013	Red Cedar	6		4188	Burr oak	4	dead	4318	Red Cedar	7		4433	Red Cedar	9		4533	Red oak	9		4625	Colorado blue spruce	6		4741	Red Cedar	6	
4014	Scots pine	8		4189	Burr oak	11		4319	Red Cedar	7		4436	Red Cedar	9		4534	Red oak	22	rotting	4626	Colorado blue spruce	5		4742	Red Cedar	5	
4015	Red Cedar	8		4190	Boxelder	11		4320	Red Cedar	6		4437	Red Cedar	4		4535	Red oak	16	rotting	4627	Burr oak	12		4743	Red Cedar	5	
4018	Red Cedar	5		4191	Burr oak	8		4321	Siberian Elm	13		4438	Red Cedar	4		4536	Red oak	12	dying	4629	Siberian Elm	10		4744	Red Cedar	8	
4020	Red Cedar	9		4192	Red Cedar	7		4322	Red Cedar	8		4439	Red Cedar	5		4537	Siberian Elm	22	dying	4630	Burr oak	7		4745	Red Cedar	4	
4025	Red Cedar	6		4193	Burr oak	5		4324	Red Cedar	4		4440	Red Cedar	7		4538	Siberian Elm	8		4631	Siberian Elm	8		4749	Siberian Elm	9	
4026	Red Cedar	11		4194	Scots pine	18		4325	Red Cedar	5		4442	Red Cedar	4		4539	Siberian Elm	10		4633	Hackberry	17		4751	Red Cedar	5	dying
4028	Red Cedar	5		4195	Red Cedar	7		4326	Red Cedar	6		4444	Red Cedar	8		4540	Burr oak	23	dying	4634	Red oak	4		4753	Red Cedar	5	
4029	Red Cedar	6		4197	Red Cedar	4		4327	Siberian Elm	14		4446	Red Cedar	6		4541	Black cherry	8		4636	Red Cedar	10		4754	Scots pine	5	
4030	Red Cedar	8		4198	Scots pine	5		4328	Red Cedar	9		4448	Siberian Elm	8		4542	Boxelder	14		4637	Red Cedar	10		4755	Red Cedar	4	
4034	Red Cedar	8		4199	Siberian Elm	10		4329	Red Cedar	7		4449	Red Cedar	5		4543	Red oak	4		4638	Siberian Elm	20		4757	Red Cedar	4	
4035	Red Cedar	8		4200	Red Cedar	5		4330	Red Cedar	7		4452	Red Cedar	4		4544	Burr oak	5		4639	Red oak	6		4758	Red Cedar	6	
4036	Red Cedar	5		4202	Red Cedar	6		4331	Siberian Elm	8		4453	Scots pine	6	dead	4545	Boxelder	15		4641	Red Cedar	7		4759	Red Cedar	8	
4037	Red Cedar	10		4207	Red Cedar	7		4332	Red Cedar	5		4454	Scots pine	5	top broken off	4546	Boxelder	8	dead	4642	Burr oak	4		4760	Red Cedar	6	
4039	Red Cedar	4		4208	Scots pine	4		4333	Red Cedar	5		4455	Red Cedar	5		4547	Boxelder	9		4643	Burr oak	9		4761	Red Cedar	8	
4040	Red Cedar	6		4209	Scots pine	5		4334	Siberian Elm	12		4456	Red Cedar	6		4548	Red oak	5		4644	Burr oak	9		4763	Red Cedar	4	
4041	Red Cedar	5		4210	Red Cedar	4		4335	Red Cedar	5		4457	White Pine	9		4549	Red oak	5		4645	Red Cedar	5		4764	Red Cedar	7	
4042	Red Cedar	6		4211	Red Cedar	7		4336	Red Cedar	6		4458	Red Cedar	5		4550	Red oak	7		4646	Red Cedar	10		4765	Red Cedar	8	
4045	Red Cedar	8		4213	Red Cedar	4		4337	Red Cedar	6		4459	White Pine	9		4551	Red oak	9		4647	Burr oak	14		4766	Red Cedar	5	
4048	Red Cedar	6		4215	Red pine	9		4338	Red Cedar	6		4462	Burr oak	10		4552	Red oak	14	diseased	4648	Burr oak	16		4767	Red Cedar	10	
4050	Red Cedar	6		4216	Red Cedar	7		4339	Red Cedar	5		4463	Red oak	4		4553	Siberian Elm	8	diseased	4649	Siberian Elm	15		4768	Red Cedar	4	
4051	Red Cedar	4		4217	Scots pine	11		4340	Red Cedar	5		4464	Red oak	5		4554	Scots pine	7		4650	Burr oak	27		4770	Red Cedar	8	
4052	Red Cedar	5		4218	White Pine	15		4341	Red Cedar	6		4465	Red oak	5		4555	Red Cedar	5		4651	Siberian Elm	16		4771	Red Cedar	10	
4058	Red Cedar	5		4219	Red Cedar	6		4342	Red Cedar	8		4466	Burr oak	5	dying	4556	Siberian Elm	8		4652	Siberian Elm	8		4772	Red Cedar	6	
4059	Red Cedar	9		4223	Red Cedar	4		4343	Red Cedar	6		4467	Colorado blue spruce	14		4557	Siberian Elm	15		4653	Burr oak	6	dying	4773	Red Cedar	4	
4061	Red Cedar	5		4226	Red Cedar	7		4344	Red Cedar	7		4468	Burr oak	14		4558	Siberian Elm	13	diseased	4654	Red oak	11		4774	Red Cedar	8	
4065	Red Cedar	5		4227	Red Cedar	12		4346	Siberian Elm	10		4469	Colorado blue spruce	16	cut branches	4559	Scots pine	11		4655	Red oak	8		4776	Red Cedar	6	
4066	Red Cedar	7		4228	Scots pine	12		4347	Siberian Elm	10		4470	Siberian Elm	8		4560	Red oak	8		4656	Burr oak	8		4777	Red Cedar	8	
4076	Red Cedar	10		4230	Red Cedar	8		4348	Red Cedar	6		4471	colorado bl	14		4561	Siberian Elm	12		4657	re doa	9		4779	Red Cedar	8	
4080	Siberian Elm	8		4232	Scots pine	4	dying	4349	Red Cedar	7		4472	Colorado blue spruce	15	cut branches	4562	Siberian Elm	12		4658	Red oak	9		4780	Red Cedar	8	
4081	Siberian Elm	9		4233	Red Cedar	4		4350	Red Cedar	5		4473	Siberian Elm	10		4565	Siberian Elm	14	diseased	4659	Red oak	8		4781	Red Cedar	6	
4082	Red Cedar	7		4234	Scots pine	4		4351	Red Cedar	7		4474	White Pine	8		4567	Red Cedar	5		4660	Black cherry	8		4782	Red Cedar	6	
4085	Red Cedar	5		4236	Scots pine	4		4352	Red Cedar	8		4476	Scots pine	6		4568	Red Cedar	4		4661	Burr oak	16		4783	Red Cedar	5	
4086	Red Cedar	4		4238	Red Cedar	6		4354	Red Cedar	7		4477	White Pine	4		4569	Red Cedar	4		4662	Burr oak	23		4784	Red Cedar	5	
4087	Red Cedar	4		4241	Scots pine	4		4355	Red Cedar	5		4478	Scots pine	4		4570	Red Cedar	4		4663	Burr oak	12		4785	Red Cedar	10	
4090	Red Cedar	8		4242	Scots pine	10		4356	Red Cedar	7		4479	Colorado blue spruce	15	diseased	4571	Red Cedar	5		4664	Red Cedar	6		4786	Red Cedar	8	
4092	Red Cedar	5		4243	Red Cedar	6		4357	Red Cedar	7		4480	Colorado blue spruce	17	diseased	4572	Red Cedar	4		4665	Red oak	4		4787	Red Cedar	5	
4093	Red Cedar	6		4244	Red Cedar	5		4358	Red Cedar	6		4481	Red pine	5		4573	Red Cedar	4		4666	Scots pine	16		4788	Scots pine	5	
4094	Red Cedar	6		4245	Red Cedar	7		4361	Siberian Elm	9		4482	Colorado green spruce	12		4574	Red Cedar	5		4667	Red Cedar	7		4789	Red Cedar	8	
4095	Red Cedar	6		4247	Red Cedar	6		4364	Red Cedar	5		4483	White Spruce	13		4575	Red Cedar	4		4668	Red Cedar	4		4790	Scots pine	4	
4096	Red Cedar	10		4249	Red Cedar	4		4365	Scots pine	13		4484	White Spruce	12		4576	Colorado blue spruce	8	diseased	4670	Red Cedar	5		4791	Scots pine	10	
4102	Red Cedar	5		4250	Red Cedar	5		4366	Scots pine	4		4485	White Spruce	9		4577	Colorado blue spruce	5	diseased	4671	Red Cedar	4		4792	Red Cedar	4	
4103	Red Cedar	4		4251	Red Cedar	4		4367	Red Cedar	7		4486	White Pine	5		4578	White Spruce	6	diseased	4673	Red Cedar	10		4793	Red Cedar	5	
4106	Red Cedar	6		4252	Red Cedar	6		4371	Red Cedar	6		4487	White Pine	4		4579	Colorado blue spruce	5	diseased	4675	Red Cedar	5		4795	Red Cedar	5	
4111	Scots pine	5		4253	Scots pine	5		4372	Scots pine	4		4488	White Pine	4		4580	Colorado blue spruce	5	diseased	4676	Scots pine	4		4796	Scots pine	8	
4123	Siberian Elm	8		4254	Red Cedar	4		4374	Red Cedar	11		4489	Siberian Elm	8		4581	Colorado blue spruce	6	diseased	4677	Red Cedar	6		4797	Red Cedar	7	
4126	Red Cedar	6		4255	Scots pine	5		4377	Red Cedar	4		4490	Red Cedar	4		4582	White Spruce	5	diseased	4678	Red Cedar	5		4798	Red Cedar	6	
4128	Red Cedar	9		4256	Red Cedar	7		4378	Scots pine	4		4491	White Spruce	8		4583	Colorado blue spruce	4		4679	Red Cedar	6		4799	Red Cedar	10	
4130	Red Cedar	7		4259	Scots pine	4		4379	Red Cedar	7		4492	White Spruce	12	diseased	4584	Colorado blue spruce	5	diseased	4680	Red Cedar	6		4800	Red Cedar	5	
4132	Red Cedar	9		4260	Red Cedar	5		4381	Scots pine	5		4493	White Spruce	9		4585	Colorado blue spruce	5	diseased	4681	Red Cedar	8		4802	Red Cedar	6	
4133	Siberian Elm	9		4261	Red pine	9		4382	Scots pine	4		4494	White Pine	4		4586	Colorado blue spruce	4	diseased	4682	Red Cedar	5		4803	Red Cedar	8	
4134	Red Cedar																										

PLOT DATE: 12/29/2017 10:55:26 AM FILE: C:\Users\bjhunin\Desktop\170163 Eric Thompsons Armstrong Blvd\600 Drawings\Survey\170163 preliminary plat 12-21-17.dwg

TREES REMOVED  
HOME CONSTRUCTION

Tag ID	Species	DBH	Notes	Tag ID	Species	DBH	Notes
4010	Red Cedar	5		4710	Red Cedar	7	
4017	Red Cedar	5		4711	Scots pine	7	
4043	Red Cedar	5		4712	Red Cedar	4	
4044	Red Cedar	5		4713	Red Cedar	4	
4054	Red Cedar	6		4714	Red Cedar	4	
4055	Red Cedar	6		4715	Red Cedar	12	diseased
4056	Red Cedar	7		4716	Red Cedar	12	
4060	Red Cedar	7		4717	Red oak	6	
4062	Red Cedar	5		4718	Red Cedar	4	
4063	Red Cedar	6		4719	Red Cedar	7	
4064	Red Cedar	5		4720	Red Cedar	5	
4067	Red Cedar	7		4721	Red oak	7	
4068	Red Cedar	7		4722	Burr oak	7	
4069	Red Cedar	7		4723	Red Cedar	7	
4070	Red Cedar	5		4734	Red Cedar	5	
4071	Red Cedar	7		4738	Red Cedar	8	
4072	Red Cedar	6		4747	Red Cedar	6	
4073	Scots pine	20		4750	Siberian Elm	10	
4074	Red Cedar	10		4775	Red Cedar	8	
4075	Scots pine	10		<b>TOTAL</b>	<b>CALIPER INCHES</b>	<b>755</b>	
4077	Scots pine	4					
4078	Red Cedar	10					
4088	White Pine	11					
4109	Red Cedar	6					
4116	Red Cedar	6					
4117	Siberian Elm	11					
4118	Siberian Elm	9					
4119	Siberian Elm	10					
4120	Siberian Elm	12					
4121	Siberian Elm	10					
4122	Siberian Elm	10					
4129	Red Cedar	7					
4135	Red Cedar	6					
4141	Red Cedar	5					
4143	Red Cedar	7					
4148	Red Cedar	6					
4153	Red Cedar	6					
4156	Red Cedar	6					
4158	Red Cedar	5					
4164	Red pine	7					
4168	Red Cedar	5					
4169	Red Cedar	7					
4196	Red Cedar	6					
4201	White Pine	12					
4203	Siberian Elm	8					
4212	Red Cedar	6					
4220	Red Cedar	4					
4221	Red Cedar	8					
4222	Red Cedar	7					
4224	Red Cedar	6					
4225	Red Cedar	6					
4229	Red Cedar	5					
4231	Red Cedar	7					
4235	Red Cedar	7					
4237	Red Cedar	8					
4239	Red pine	8					
4240	Scots pine	4	diseased				
4248	Scots pine	9					
4257	White Pine	4					
4264	White Pine	4					
4268	Red Cedar	5					
4273	Red Cedar	4					
4276	Red Cedar	4					
4280	Red Cedar	6					
4282	Red Cedar	6					
4286	Red Cedar	8					
4293	Red Cedar	6					
4294	Red Cedar	8					
4295	White Pine	15					
4323	Red Cedar	6					
4353	Red Cedar	6					
4359	Scots pine	8					
4362	Black cherry	8					
4380	Red Cedar	4					
4390	Red Cedar	6					
4408	Scots pine	5	dead				
4413	Red Cedar	9					
4416	Red Cedar	6					
4421	Red Cedar	8					
4427	Red Cedar	5					
4435	Red Cedar	4					
4441	Red Cedar	9					
4443	Red Cedar	12					
4445	Red Cedar	5					
4447	Red Cedar	6					
4450	Red Cedar	6					
4451	Red Cedar	6					
4460	Siberian Elm	10	dying				
4628	Red Cedar	8					

TREES REMOVED  
PONDS

Tag ID	Species	DBH	Notes
4021	Red Cedar	6	
4022	Red Cedar	4	
4023	Red Cedar	7	
4024	Red Cedar	5	
4027	Red Cedar	4	
4033	Red Cedar	10	
4038	Red Cedar	6	
4046	Red Cedar	8	
4047	Red Cedar	6	
4049	Red Cedar	12	
4053	Red Cedar	6	
4057	Red Cedar	4	
4079	Red Cedar	6	
4083	Red Cedar	6	
4084	Red Cedar	7	
4089	Red Cedar	5	
4091	Red Cedar	7	
4097	Red Cedar	5	
4098	Red Cedar	6	
4099	Red Cedar	6	
4100	Red Cedar	6	
4101	Red Cedar	5	
4104	Red Cedar	5	
4105	Red Cedar	7	
4107	Red Cedar	7	
4108	Red Cedar	6	
4110	Red Cedar	6	
4112	Red Cedar	6	
4113	Red Cedar	4	
4114	Red Cedar	6	
4115	Red Cedar	6	
4124	Red Cedar	7	
4127	Red Cedar	6	
4131	Red Cedar	7	
4142	Red Cedar	5	
4150	Red Cedar	5	
4151	Red Cedar	7	
4154	Red Cedar	5	
4159	Red Cedar	6	
4204	Red Cedar	5	
4205	Siberian Elm	15	
4206	Red Cedar	6	
4246	Red Cedar	5	
4271	Scots pine	5	
4275	Red Cedar	7	
4292	Red Cedar	6	
4363	Scots pine	4	
4368	Red Cedar	4	
4369	Red Cedar	6	
4370	Red pine	13	
4373	Red Cedar	5	
4375	Red Cedar	5	
4376	Red Cedar	10	
4389	Scots pine	12	
4475	Colorado blue spruce	18	diseased
4563	Red Cedar	4	
4564	Red Cedar	7	
4566	Red Cedar	6	
4632	Siberian Elm	13	
4640	Siberian Elm	10	
4669	Red Cedar	12	
4672	Red Cedar	7	
4674	Red Cedar	4	
4675	Red Cedar	5	
4685	Red Cedar	4	
4689	Red Cedar	14	
4695	Red Cedar	4	
4697	Red Cedar	10	
4746	Red Cedar	6	
4748	Scots pine	11	
4752	Red pine	12	
4762	Red Cedar	5	
4769	Red pine	7	
4778	Red Cedar	10	
4794	Scots pine	4	
4801	Red Cedar	10	
4804	Red Cedar	8	
4807	red cce	8	
4808	Red Cedar	4	
4809	Scots pine	4	
4812	Red Cedar	6	
4822	Red pine	8	
<b>TOTAL</b>	<b>CALIPER INCHES</b>	<b>567</b>	

TREES REMOVED  
ROADS

Tag ID	Species	DBH	Notes
4016	Red Cedar	8	
4019	Red Cedar	5	
4031	Red Cedar	9	
4032	Red Cedar	5	
4125	Red Cedar	5	
4167	Red Cedar	5	
4214	Scots pine	5	dead
4258	Red Cedar	6	
4281	Red Cedar	5	
4288	Scots pine	12	
4301	Siberian Elm	8	
4302	Siberian Elm	8	
4312	Red Cedar	6	
4345	Siberian Elm	10	
4360	Siberian Elm	8	
4396	Red Cedar	5	
4397	Red Cedar	4	
4398	Red Cedar	5	
4405	Siberian Elm	8	
4422	Red Cedar	5	
4434	Red Cedar	4	
4461	Red oak	6	
4635	Siberian Elm	12	
4756	Red Cedar	6	
<b>TOTAL</b>	<b>CALIPER INCHES</b>	<b>160</b>	

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: \_\_\_\_\_ LIC. NO. \_\_\_\_ DATE 00-00-2018

DESIGNED  
B.J.H.  
DRAWN  
B.J.H.  
CHECKED  
..



PERFORMANCE  
DRIVEN DESIGN  
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21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

RUM RIVER PRAIRIE DEVELOPMENT

SITE TREE PLAN

SHEET T3