

7	MH/CB	AF	REA [SF]	AREA	A [AC]	IMP	RUNOFF	A.	*C	TIME OF CO	NC. [MIN]	INTENSITY	Q	[CFS]	P. DIA.	P. SLOPE	P. TYPE	MANNING'S	S P. CAP.	P. VELOCITY	PIPE	CAP. OVER	FROM	TO	RIM	COVER	STR.	CAS
FROM	TO	TOTAL	IMPERVIOUS	INCR.	CUM.	%	С	INCR.	CUM.	PIPE	CUM.	i	INCR.	CUM.	D [IN]	S [FT/FT]		n	Q [CFS]	MAX [FT/S]	LENGTH [FT]	Q [CFS]	INVERT	INVERT	ELEV	[FT]	TYPE	TYPI
																								_				
FES 111	FES 110	80924	8223	1.858	1.858	10%	0.27	0.504	0.504	15.00	15.00	4.56	2.297	2.297	15	0.0100	RCP	0.013	6.46	5.26	67.30	4.1629	1048.67	1048.00			FES	
																						_						
FES 131	FES 130	85312	18299	1.958	3.816	21%	0.35	0.686	1.189	0.21	15.21	4.56	3.127	5.424	15	0.0076	RCP	0.013	5.63	4.59	66.00	0.2076	1049.90	1049.40			FES	
FES 121	FES 120	74861	13605	1.719	1.719	18%	0.33	0.562	0.562	0.24	15.45	4.56	2.564	2.564	18	0.0145	RCP	0.013	12.65	7.16	75.95	10.0846	1049.10	1048.00			FES	
CB 141	FES 140	149600	19667	3.434	3.434	13%	0.29	1.003	1.003	15.00	15.00	4.56	4.573	4.573	15	0.0051	RCP	0.013	4.61	3.76	86.35	© 0.0399	1040.50	1040.06	1044.50		27	R:434
CB 151	FES 150	21439	960	0.492	0.492	4%	0.23	0.114	0.114	15.00	15.00	4.56	0.519	0.519	12	0.0082	CMP	0.013	3.23	4.11	119.20	2.7070	1040.00	1039.02	1044.00		27	R:434
32 121	120,00																											
FES 161	FES160	461120	37372	10.586	10.586	8%	0.26	2.718	2.718	15.00	15.00	4.56	12.393	12.393	18	0.0183	RCP	0.013	14.21	8.04	54.70	1.8171	1022.00	1021.00			FES	
125 101	120100	101120	5,512	101000	10.000	070	V.=V		,,	25.00	-2100		070							-								
EEC 171	PEC170	1.42502	21529	3.294	3.294	15%	0.31	1.005	1.005	15.00	15.00	4,56	4.582	4.582	15	0.0184	RCP	0.013	8 76	7.14	54.30	4.1804	1022.00	1021.00			FES	
FES 171	FES170	143503	21329	3.294	3.494	1370	0.31	1.003	1.005	13.00	12300	7.50	7.302	7.302	13	0.0104	rect	0.015	3.70	- 1117	550							

THE GATEWAY

KNOW ALL BY THESE PRESENTS: TEGLF Gateway, LCC, a Minnesota firmited flability company, owner of the following described property situated in the County of Washington, State of Minnesota to wit:

That part of the West half of the Southeast Quarter of Section 28, Township 30, Range 21, Washington County, Minnesota, according to the government survey thereof; described as follows: Beginning at the intersection of the West line of said West half of the Southeast Quarter and the South ine of Washington County Right of Way Plat No. 19; thence North 88 degrees 31 minutes 17 seconds East, on a bearing based on the Washington County coordinate system, South zone, along said South plat fine a distance of 189.11 feet; thence South 1 degree 28 minutes 43 seconds Seat along said plat fine a distance of 35.00 feet; thence North 88 degrees 31 minutes 17 seconds East along said plat fine a distance of 160.00 feet; thence North 18 degrees 31 minutes 17 seconds East along said plat fine a distance of 276.71 feet to a point on a fine parallel with and 545.80 feet West of the West fine of said West half of the Southeast Quarter, as measured along the North fine of said West half of the Southeast Quarter, as measured along the North fine of said West half of the Southeast Quarter a distance of 175.00 feet; thence South 0 degrees 00 minutes 37 seconds West along said parallel fine a distance of 183.00 feet; thence South 0 degrees 00 minutes 37 seconds East along said parallel fine a distance of 1840 West half of the Southeast Quarter a distance of 175.00 feet; thence South 0 degrees 30 minutes 07 seconds East along said parallel fine a distance of 175.00 feet; thence South 51 degrees 41 minutes 18 seconds East a distance of 489.02 feet to the Westerly right-of-way fine of the Southeast Guarter, thence South 51 degrees 30 minutes 18 seconds East and distance of 489.02 feet to the Westerly right-of-way fine of the Southeast Guarter; thence South 80 degrees 36 minutes 02 seconds West along said South fine a distance of 39.53 feet to the Southwest corner of said West half of the Southeast Quarter; thence South 51 degrees 30 minutes 18 southeast Quarter; thence South 52 degrees 30 minutes 07 seconds West along said South fine a

All that part of the Northeast Quarter of the Northwest Quarter (NE 1/4 of NW 1/4) and all that part of the Northwest Quarter of the Northwest Qua

That part of the Southwest Quarter of Section 28, Township 30, Range 21, Washington County, Minnesota described as follows: Beginning at the intersection of the West fine of the East 1/2 of the West 1/2 of said Southwest 1/4 and the North fine of the South 1705.07 feet of said Southwest 1/4; thence South 0° 18° 28° East along said West fine a distance of 295.30 feet; thence North 88° 38° 54° East a distance of 175.22 feet; thence North 19° 38° 52° West to the center fine of County State Aid Highway No. 12; thence Westerly along said center fine to the center fine of a Minnesota Fipe Line Company easement as now hid out across said Southwest 1/4; thence Southerly along the center fine of said easement to the North fine of the South 1705.07 feet of said Southwest 1/4; thence West to the point of beginning.

East 1/2 of the Southwest 1/4 of Section 28, Township 30 Range 21 in Washington County, Minnesota. Also that part of the East 1/2 of the West 1/2 of the Southwest 1/4 of Section 28 kJ ring Westerly of the center fine of County State Atd Highway No. 12 as now kid out and traveled except the South 980.38 feet of said East 1/2 of the West 1/2 of the Southwest 1/4 and except that part lying Westerly of the center fine of a Minnesota Pipe Line Company Easement as now kid out across the Southwest 1/4 of said Section 28 and lying Northerly of the South 1705.07 feet of said East 1/2 of the West 1/2 of the Southwest 1/4 and subject to a 68 foot wide easement to Minnesota Pipe Line Company as now kid out across said Southwest 1/4 and subject to a 68 foot wide easement to Minnesota Pipe Line Company as now kid out across said Southwest 1/4.

EXCEPT
That part of the Southwest Quarter of Section 28, Township 30, Range 21, Washington County, Minnesota described as follows: Beginning at the intersection of the West fine of the East 1/2 of the West 1/2 of said Southwest 1/4 and the North fine of the South 1705.07 feet of said Southwest 1/4, thence South 1705.07 feet of said Southwest 1/4 and the North 6 fine of the South 1705.07 feet of said Southwest 1/4, thence Southy No. 12; thence West the part of the South 1705.07 feet of said Southwest 1/4; thence Southy No. 12; thence West the North fine of the South 1705.07 feet of said Southwest 1/4; thence West to the point of beginning.

AND EXCEPT
The East 600 feet and the South 980.38 feet of said East 1/2 of the Southwest 1/4.

The East 600.00 feet of the Southwest 1/4; the South 980.38 feet of the East 1/2 of the Southwest 1/4 ying West of the East 600.00 feet thereof and the South 980.38 feet of the East 1/2 of the West 1/2 of the Southwest 1/4 all in Section 28, Township 30, Range 21, Washington County, Minnesota.

Has caused the same to be surveyed and platted as THE GATEWAY and does hereby donate and dedicate to the public for public use the public ways and the drainage and utility easements as created by this plat.

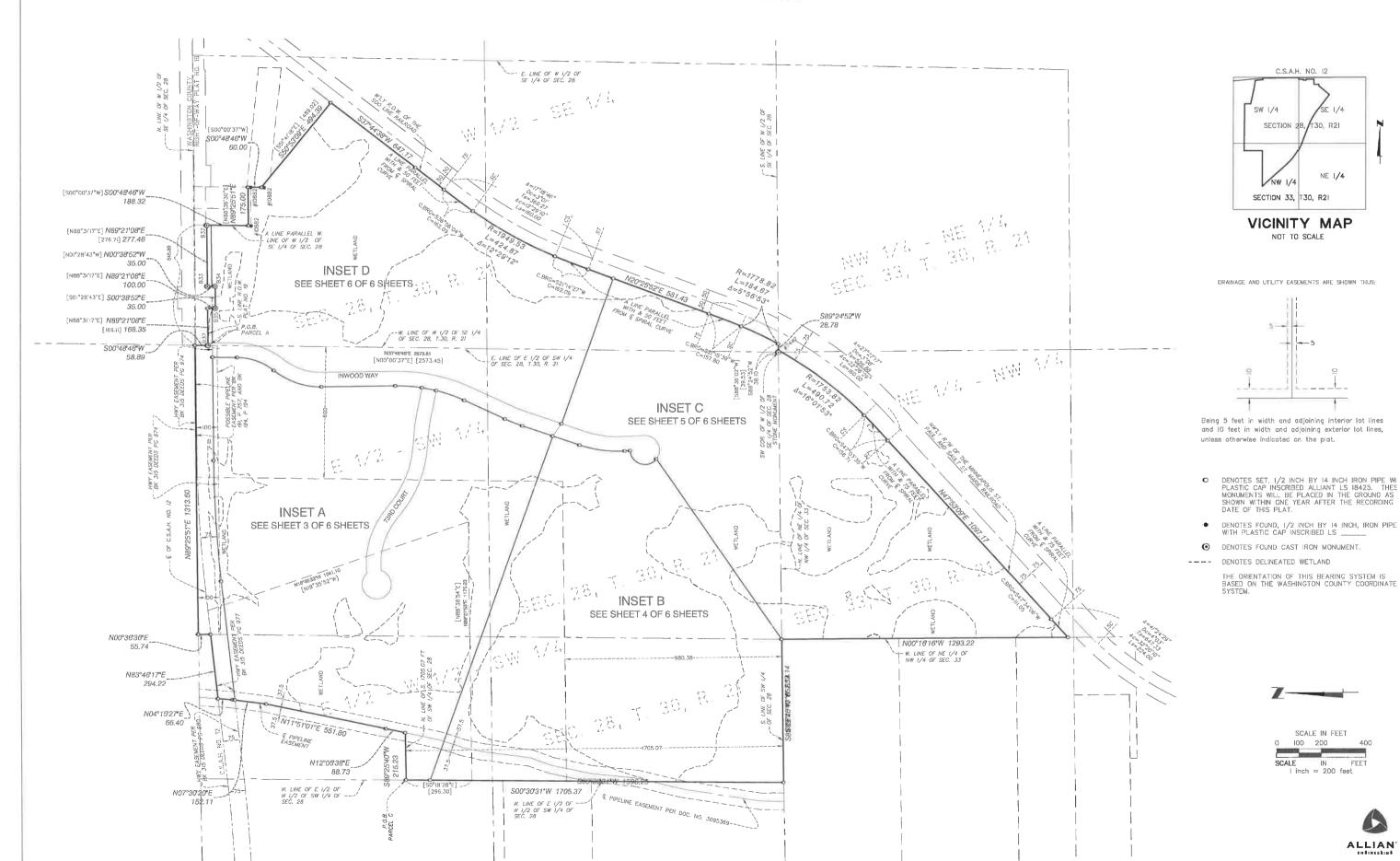
in witness whereof said TEGLF Gateway, LLC, a Minnesota limited liability company, has caused these presents to be signed by its proper officer thisday of
Signed: TEGLF Gateway, LLC
ByChief Manager
STATE OF
This instrument was acknowledged before me on this day of, 20, by Chief Manager of TEGLF Gateway, LLC, a Minnesota fimited fability or on behalf of the corporation.
Signature
Printed
Notary Public,County,

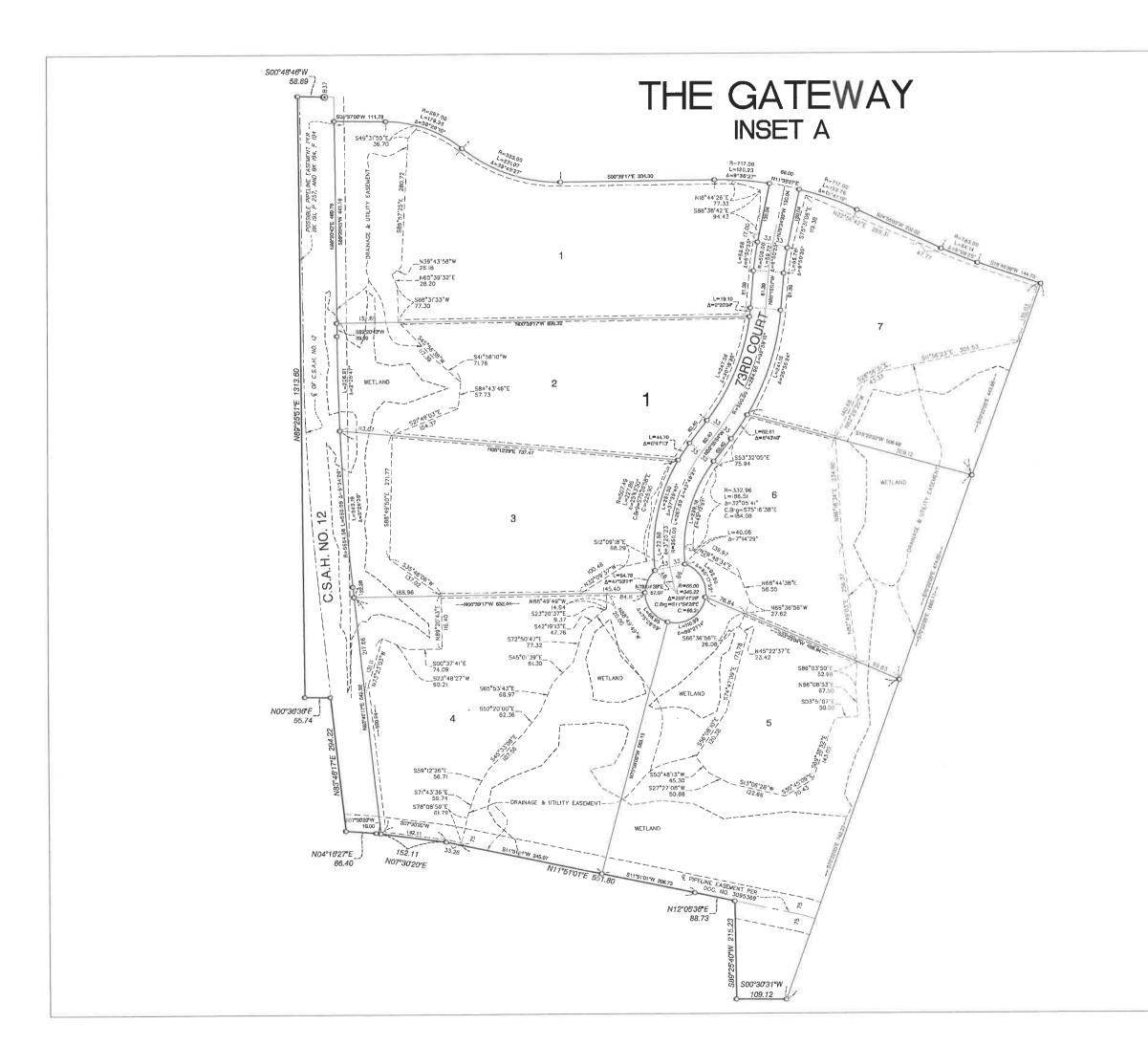
IDennis B. Olmstead, Licensed Land Surveyor, do hereby certify that I have surveyed or directly supervised the survey of the property described on the plat; and prepared this plat or directly supervised the properation of this plat; that I am a duly Licensed Land Surveyor in the State of Minnesota; that this plat is a correct representation of the boundary survey; that all mathematical data and labels are correctly designated on this plat; that all monuments depicted on this plat have been, or will be correctly set as shown; that all water boundaries and wet lands, as defined in Minnesota Statutes, Section 505.01, Subd. 3, as of the date of this surveyor's certification are shown and labeled on this plat.

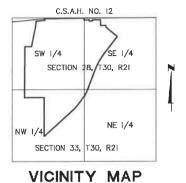
Dated thisday of, 20
Dennis B. Olmstead, Libensed Länd Surveyor Minnesota Libense No. 18425
STATE OF MINNESOTA COUNTY OF HENNEPIN
This instrument was acknowledged before me on thisday of
Printed
Notary Public, County, Minnesota My Commission Expires
CITY OF GRANT, MINNESOTA
This plat was approved by the City Council of Grant, Minnesota this day of, 20, and hereby certifies compliance with all requirements as set forth in Minnesota Statutes, Section 505.03, Subdivision 2.
Signed: Attest: Mayor City Administrator
COUNTY SURVEYOR
Pursuant to Chapter 820, Laws of Minnesota, 1971, and in accordance with Minnesota Statutes, Section 505.021, Subd. 11, this plat has been reviewed and approved this day of
By:
COUNTY AUDITOR/TREASURER APPROVAL
Pursuant to Minnesota Statutes, Section 505.021, Subd. 9 and Section 272.12, taxes payable in the year 20, on real estate hereinbefore described, have been paid; there are no definquent taxe the current taxes and transfer has been entered, on this day of, 20
By:
COUNTY RECORDER
Document Number
I hereby certify that this instrument was recorded in the Office of the County Recorder for record on thisday of, 20atoblockM. and was duly record in Washington County Records.
By:By:



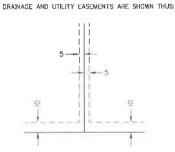
THE GATEWAY







NOT TO SCALE

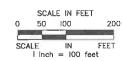


Being 5 feet in width and adjoining interior lot lines and 10 feet in width and adjoining exterior lot lines, unless atherwise indicated on the plat.

- O DENOTES SET, I/2 INCH BY I4 INCH IRON PIPE WI PLASTIC CAP INSCRIBED ALLIANT LS 18425. THES MONUMENTS WILL BE PLACED IN THE GROUND AS SHOWN WITHIN ONE YEAR AFTER THE RECORDING DATE OF THIS PLAT.
- DENOTES FOUND, 1/2 INCH BY 14 INCH, IRON PIPE WITH PLASTIC CAP INSCRIBED LS _____
- DENOTES FOUND CAST IRON MONUMENT.

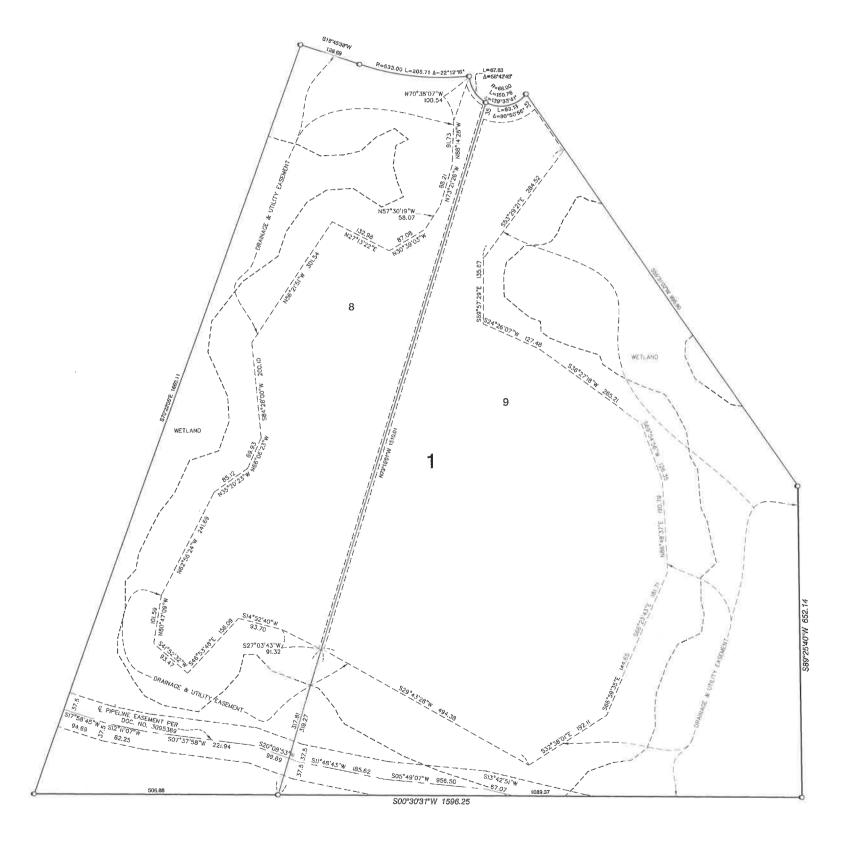
---- DENOTES DELINEATED WETLAND

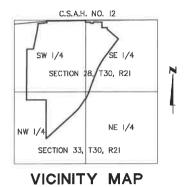






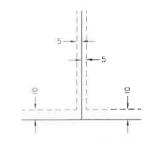
THE GATEWAY INSET B





NOT TO SCALE

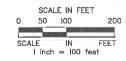
DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



Being 5 feet in width and adjoining interior lot lines and 10 feet in width and adjoining exterior lot lines, unless otherwise indicated on the plat.

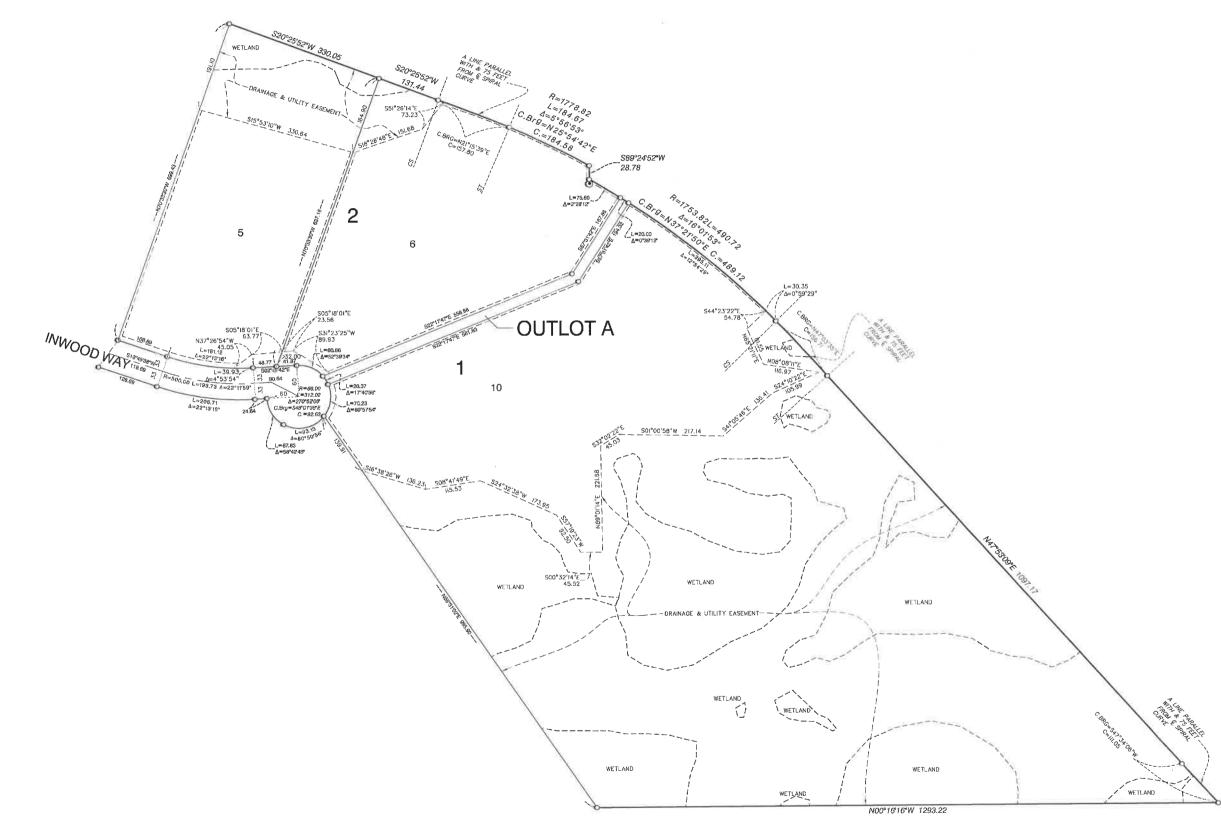
- O DENOTES SET, 1/2 INCH BY 14 INCH IRON PIPE WI PLASTIC CAP INSCRIBED ALLIANT LS 18425. THES MONUMENTS WILL BE PLACED IN THE GROUND AS SHOWN WITHIN ONE YEAR AFTER THE RECORDING DATE OF THIS PLAT.
- DENOTES FOUND, 1/2 INCH BY 14 INCH, IRON PIPE WITH PLASTIC CAP INSCRIBED LS ______
- DENOTES FOUND CAST IRON MONUMENT.
- ---- DENOTES DELINEATED WETLAND

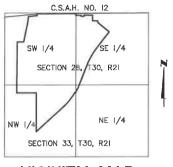






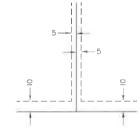
THE GATEWAY INSET C





VICINITY MAP

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:

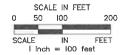


Being 5 feet in width and adjoining interior lot lines and 10 feet in width and adjoining exterior lot lines, unless otherwise indicated on the plat.

- DENOTES SET, I/2 INCH BY 14 INCH IRON PIPE WIT PLASTIC CAP INSCRIBED ALLIANT LS 18425. THESE MONUMENTS WILL BE PLACED IN THE GROUND AS SHOWN WITHIN ONE YEAR AFTER THE RECORDING DATE OF THIS PLAT.
- DENOTES FOUND, I/2 INCH BY I4 INCH, IRON PIPE WITH PLASTIC CAP INSCRIBED LS
- DENOTES FOUND CAST IRON MONUMENT.

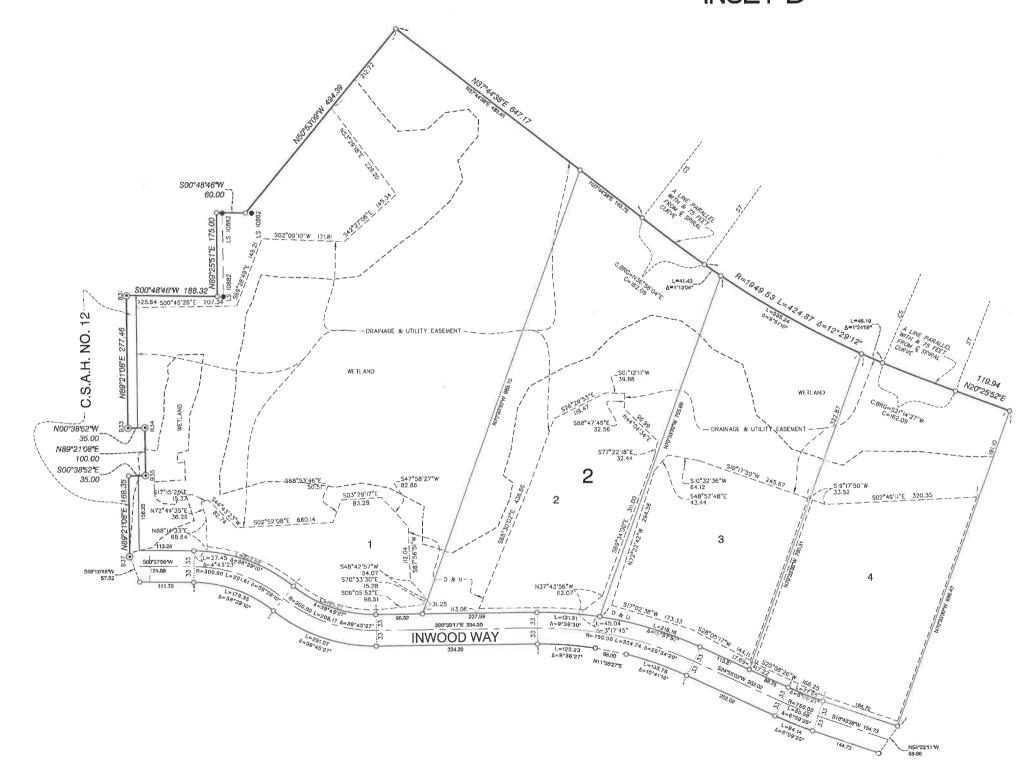
---- DENOTES DELINEATED WETLAND

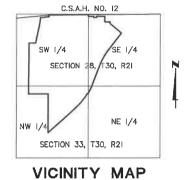






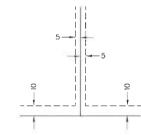
THE GATEWAY INSET D





NOT TO SCALE

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



Being 5 feet in width and adjoining interior lot lines and 10 feet in width and adjoining exterior lot lines, unless otherwise indicated on the plat.

- O DENOTES SET, I/2 INCH BY I4 INCH IRON PIPE WI PLASTIC CAP INSCRIBED ALLIANT LS 18425. THES MONUMENTS WILL BE PLACED IN THE GROUND AS SHOWN WITHIN ONE YEAR AFTER THE RECORDING DATE OF THIS PLAT.
- DENOTES FOUND, 1/2 INCH BY 14 INCH, IRON PIPE WITH PLASTIC CAP INSCRIBED LS ______
- DENOTES FOUND CAST IRON MONUMENT.

---- DENOTES DELINEATED WETLAND

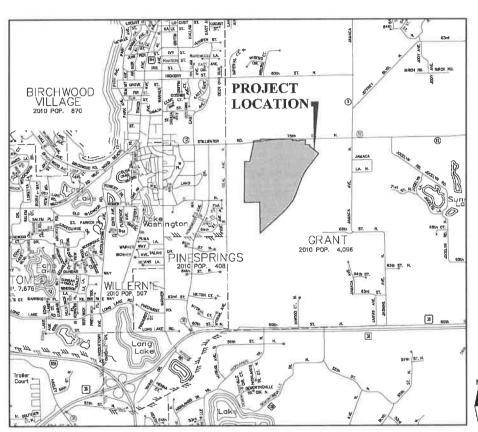






THE GATEWAY GRANT, MINNESOTA





VICINITY MAP

SHEET INDEX NO. COVER SHEET EXISTING CONDITIONS SURVEY 2-5 SITE PLAN GRADING AND DRAINAGE PLAN INFILTRATION BASIN SECTIONS 16-21 EROSION, SEDIMENT CONTROL AND VEGETATION PLAN 22-24 EROSION CONTROL NOTES AND DETAILS 26 VEGETATION PLAN OVERALL STREET AND STORM SEWER PLAN 27 STREET AND STORM SEWER PLAN AND PROFILES 28-30 STREET INTERSECTION DETAILS 31 WETLAND MANAGEMENT PLAN 32-33 TURN LANE REMOVALS AND SITE PLAN 34 TURN LANE GRADIN PLAN AND CROSS SECTIONS 35



733 Marquette Avenue Suite 700 Minneapolis, MN 55402 612.758.3080 www.alliant-inc.com

TEGLF GATEWAY, LLC
1660 HIGHWAY 100 S.
SUITE 400
ST. LOUIS PARK, MN 55416
PH: 952-525-3208
CONTACT: PAUL THOMAS
EM: paul.thomas@excelsiorllc.com

CONSULTANT

DEVELOPER

ALLIANT ENGINEERING, INC. 733 MARQUETTE AVENUE SUITE 700 MINNEAPOLIS, MN 55402 PH: 612-758-3080

ENGINEER

MARK RAUSCH LICENSE NO. 43480 EM: mrausch@alliant-inc.com

SURVEYOR

DENNIS B. OLMSTEAD LICENSE NO. 18425 EM: dolmstead@alliant-inc.com 8255 75TH STREET N
GRANT, MINNESOTA
CONSTRUCTION DOCUMENTS

I hereby certify that this plan, specification, or report was prepared by me ar under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

MARK RAUSCH, PE

1-10-19 Date 1

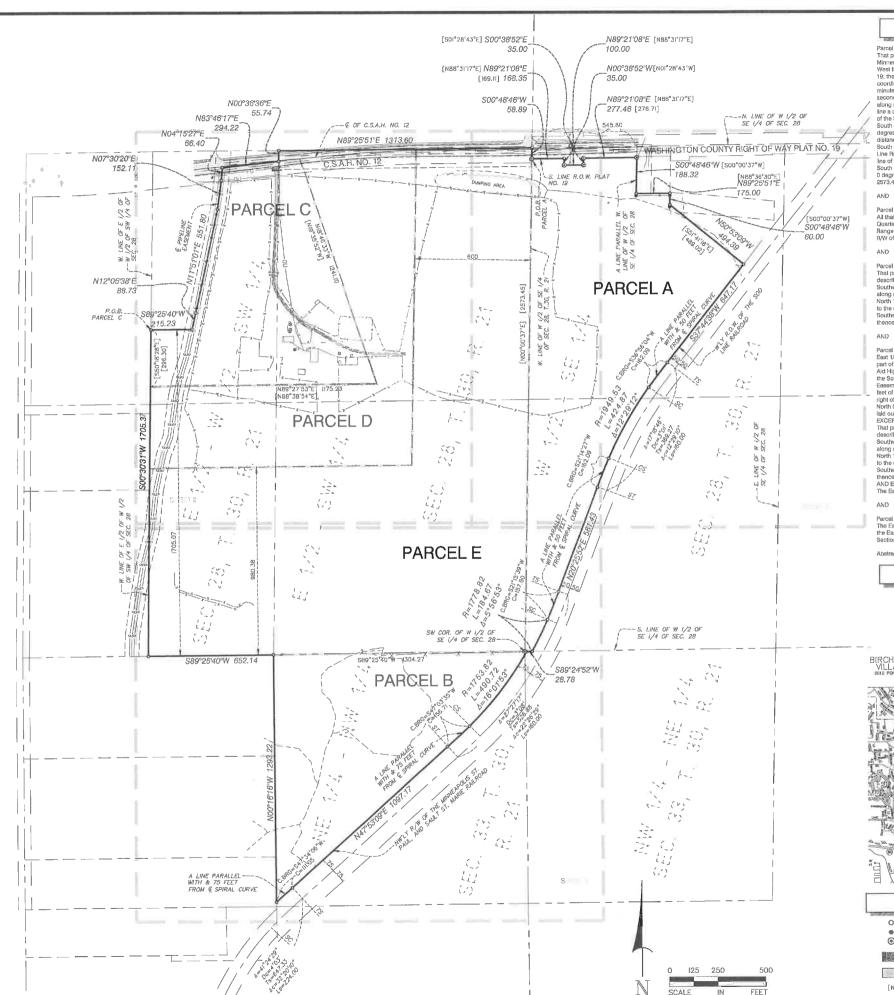
QUALITY ASSURANCE/CONTRO

DATE
ISSUE
CITY SUBMITTAL
WATERSHED SUBMITTAL
BID PACKAGE
CONSTRUCTION DOCUMEN

PROJECT TEAM DATA
DESIGNED:
DRAWN:

1

IEET 1 OE 3



PROPERTY DESCRIPTION

Parcel A:
That part of the West half of the Southeast Quarter of Section 28, Township 30, Range 21, Washington County, Minnresota, according to the government survey thereof, described as follows: Beginning at the intersection of the West line of said West half of the Southeast Quarter and the South line of Washington County Right of Way Plat No. 19; thence North 88 degrees 31 minutes 17 seconds East, on a bearing based on the Washington County Right of Way Plat No. 19; thence North 88 degrees 31 minutes 17 seconds East along said plat line a distance of 55.00 feet, thence North 88 degrees 31 minutes 17 seconds East along said plat line a distance of 55.00 feet, thence North 88 degrees 31 minutes 17 seconds East along said plat line a distance of 50.00 feet; thence North 88 degrees 31 minutes 17 seconds East along said plat line a distance of 50.00 feet; thence North 88 degrees 31 minutes 17 seconds East along said plat line a distance of 52.00 feet; thence North 88 degrees 31 minutes 17 seconds East along said plat in a distance of 57.00 feet; thence North 88 degrees 31 minutes 30 seconds East and parallel with the North line of said West half of the Southeast Quarter, thence South 0 degrees 00 minutes 37 seconds West along said parallel line a distance of 18.00 feet; thence North 88 degrees 38 minutes 30 seconds East and parallel with the North line of said West half of the Southeast Quarter, thence South 51 degrees 30 minutes 18 seconds East aldstance of 489.02 feet to the Westerly right-of-way line of the South line of said West half of the Southeast Quarter, thence South 81 degrees 38 minutes 02 seconds West along said parallel line along the Southeast Quarter and South line of said West half of the Southeast Quarter rine North 01 degrees 00 minutes 37 seconds South line of said West half of the Southeast Quarter rine North 01 degrees 00 minutes 37 seconds South line of said West half of the Southeast Quarter rance North 01 degrees 00 minutes 37 seconds South line of said West half of the Southeast Quarter

Parces IS:
All that part of the Northeast Quarter of the Northwest Quarter (NE 1/4 of NW 1/4) and all that part of the Northwast Quarter of the Northeast Quarter (NW 1/4 of NE 1/4) of Section Thirty-three (33), in Township Thirty (30) North, of Range Twenty-one (21) West, Grant Township), Washington County, Minnesota, lying Westerly of the Northwasteri RVW of the Minneapolis, St. Paul and Sault St. Marie Ralfroad.

Parcel C:
That part of the Southwest Quarter of Section 28, Township 30, Range 21, Washington County, Minnesota described as follows: Beginning at the Intersection of the West line of the East 1/2 of the West 1/2 of said Southwest 1/4 and the North line of the South 1/705 07 feet of said Southwest 1/4; thence South of 18 29 East along said West line a distance of 298.30 feet; thence North 86* 38*54* East a distance of 175.23 feet; thence North 18* 35*22* West to the center line of county State Auf Highway No. 12*, thence Westerly along said center line to the center line of a Minnesota Pipe Line Company easement as now laid out across said Southwest 1/4; thence Southerly along the center line of a Minnesota Pipe Line Company easement as now laid out across said Southwest 1/4; thence Southerly along the center line of a Minnesota Pipe Line Company easement as now laid out across said Southwest 1/4; thence Host to the point of beginning.

Parcet D:
East 1/2 of the Southwest 1/4 of Section 28, Township 30 Range 21 in Washington County, Minnesota. Also that part of the East 1/2 of the West 1/2 of the Southwest 1/4 of Section 28 lying South of the center line of County State Act Highway No. 12 as now laid out and traveled except the South 890.38 let of 1 said East 1/2 of the West 1/2 of the Southwest 1/4 and except that part lying Westerly of the center line of a Minnesota Pipe Line Company Easement as now laid out across the Southwest 1/4 of said Section 28 and lying Northerly of the South 1705.07 feet of said East 1/2 of the West 1/2 of the Southwest 1/4 as measured along the West line thereof. Subject to the right of way of County State Ad Highway No. 12 as now laid out and traveled along the North line of said Southwest 1/4 and subject to a 68 foot wide easement to Minnesota Pipe Line Company as now laid out across said Southwest 1/4.

EXCEPT
That oat of the Southwest Quarter of Section 28, Township 30, Range 21, Washington County, Minnesota

That part of the Southwest Quarter of Section 28, Township 30, Range 21, Washington County, Minr That part of the Southwest Quarter of Section 28, Township 30, Range 21, Washington County, Minnesotal described as follows: Beginning at the interaction of the West line of the East 1/2 of the West 1/2 of said Southwest 1/4 and the North line of the South 1705.07 feet of said Southwest 1/4; thence South 0° 18/2 BE East along said West line a distance of 296.30 feet; thence North 88 ° 36′ 54″ East a distance of 1175.23 feet; thence North 19° 35′ 52″ West to the center line of County State Aid Highway No. 12; thence Westerly along said center to the center line of a Minnesota Pipe Line Company essement as now laid out across said Southwest 1/4; then Southerly along the center inc of said essement to the North line of the South 1705.07 feet of said Southwest 1/4 then Southerly along the Center line of said essement to the North line of the South 1705.07 feet of said Southwest 1/4 then Southerly along the Center line of Southerly along the Center lin

The East 600 feet and the South 980.38 feet of said East 1/2 of the Southwest 1/4.

Parcel E:
The East 60.0.00 feet of the Southwest 1/4; the South 990.38 feet of the East 1/2 of the Southwest 1/4 lying West of the East 60.0.00 feet thereof and the South 990.38 feet of the East 1/2 of the West 1/2 of the Southwest 1/4 all in Section 28, Township 30, Range 21, Washington County, Minnesota.

Abstract Property

VICINITY MAP NOT TO SCALE SITE GRANT 2010 POP. 4,096 LEGEND O SET CAP IRON MONUMENT 18425

CONCRETE SURFACE

GAS
DEGE OF WETLAND FOUND IRON MONUMENT OVERHEAD ELECTRIC
X FENCE CAST IRON MONUMENT GRAVEL SURFACE

BITUMINOUS SURFACE [N88°38'54"E] DEED BEARING AND/OR DISTANCE

CERTIFICATION

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2018 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and Includes Items 1-5, 7(a), 8, 9, 11, 13 and 16 of Table A thereof. The fieldfowdr was completed on

December 7, 2018

NOTES

This survey and the property description shown here on are based upon information found in the commitment for title insurance prepared by Land Title, inc. as agent for Stewart Title Guaranty Company, Commitment No. 587375, Revision No. 4, dated November 14, 2018.

The locations of underground utilities are depicted based on Gopher State One Call, available city maps, records and field locations and may not be exact. Verify critical utilities prior to construction or design.

- 3. The basis of bearings is assumed.
- 4. All distances are in feet.
- 5. The area of the above described property is 7,192,667 square feet or 165.121 acres.
- 6. There are 0 regular striped parking stalls and 0 handicapped parking stalls

7. The property lies within Zone X (unshaded - areas determined to be outside the 0.2% annual chance floodplain) Federal Emergency Management Agency (FEMA) Flood Insurance Community Panel No. 27163C0245E, effective February 2, 2010 and Panel No. 27163C0240E, effective February 2, 2010

8. There was no observed evidence of earth moving work or building construction at the time of our field work.

9. Names of adjoining owners are depicted based on Washington County GIS tax information.

10. Wetland areas were delineated by Alliant Engineering, Inc. on September 7, 2018.

11. The easterly/southeasterly boundary adjoins the GATEWAY TRAIL established on the right of way of the former Minnespoils St. Paul and Sault St. Marie Railroad; Soo Line Railroad. The right of way was surveyed by the Minnesota Department of Natural Resources (MnDNR) in 1988 prior to track removal to document and preserve the location of the right of way. The right of way shown hereon is dimensioned and monumented based on the survey map prepared by Department of Natural Resources (MinDNR) in 1988 prior to track removal to document and preserve the location of the right of way. The right of way shown hereon is dimensioned and monumented based on the survey map prepared by the MnDNR dated April 11, 1988 and filed in Washington County. The right of way is established with spiral transitions to circular curves and tangents. The circular curves are defined by degree of curve based on the railroad definition. There is not a mathematical way to dimension the ordised of a spiral curve, so we have dimensioned the chord of the spiral offset and noted it is parallel to the centerline of the right of way.

12. Survey related exceptions set forth in Schedule B, Section Two of the Title Commitment

- Item no. 12 Subject to existing roads as shown on available maps. Depicted on the survey
- ltem no. 13 Easement in favor of Minnesota Pipe Line Company dated August 17, 1954, filed in Book 190 of Deeds, page 682 (Affects Parcels C, D & E). Easement appears to be blanket over those parts of Parcels C, D, and E within the W ½ of the SW ¼ of Section 28, except the north 100 feet thereof.
- ltem no. 14 Easement in favor of Minnesota Pipe Line Company dated September 14, 1954, filed September 28, 1954 in Book 191 of Deeds, page 257 (Affects Parcels C, D & E). Description has ambiguity, however possible location of 100 fool wide assement is depicted on the survey.
- Item no. 15 Easement in favor of Minnesota Pipe Line Company dated April 21, 1955, filed April 22, 1955 in Book 194 of deeds, page 194 (Affects Parcels C, D & E). Description has ambiguity, however possible location of 100 wide easement is depicted on the survey.
- no. 16 Easement in favor of the County of Washington dated March 20, 1972, filed April 6, 1972, in Book of Deeds, page 974 (Affects Parcels C, D & E). Highway easement is depicted on the survey.
- Item no. 17 Easement in favor of the County of Washington dated March 20, 1972, filed April 6, 1972 in Book 315 of Deeds, page 975 (Affects Parcels C, D & E). Highway easement is depicted on the survey.
- Item no. 18 Easement in favor of the County of Washington dated March 20, 1972, filed April 6, 1972 in Book 315 of Deeds, page 977 (Affects Parcel C). Highway easement is depicted on the survey.
- Item no. 19 Easement In favor of the County of Washington dated March 20, 1972, filled April 6, 1972 in Book 315 of Deeds, page 980 (Affects Parcel C). Highway easement is depicted on the survey.
- Item no. 20 Washington County Highway Right of Way Plat No. 19 filed November 17, 1977 as Document Number 367210 (Affects Parcels A, C, D & E). Right of way is depicted on the survey.
- Item no. 21 Agreement regarding Easement dated December 16, 1999, filed March 8, 2000, as Document Number 3095369 (Affects Parcels C, D & E). Easement is depicted on the survey.
- . Item no. 22 Subject to wetland as shown by available maps. Wetlands were delineated by Ailant Engineering,
- Item no. 25 Excepting and reserving to the State of Minnesota, in trust of the taxing districts concerned, all
 mineral rights, as provided by law, as contained in the Conveyance of Forfeited Lands filed in Book 152, Page
 452. Location of 100 floot while strip could not be determined from record document.



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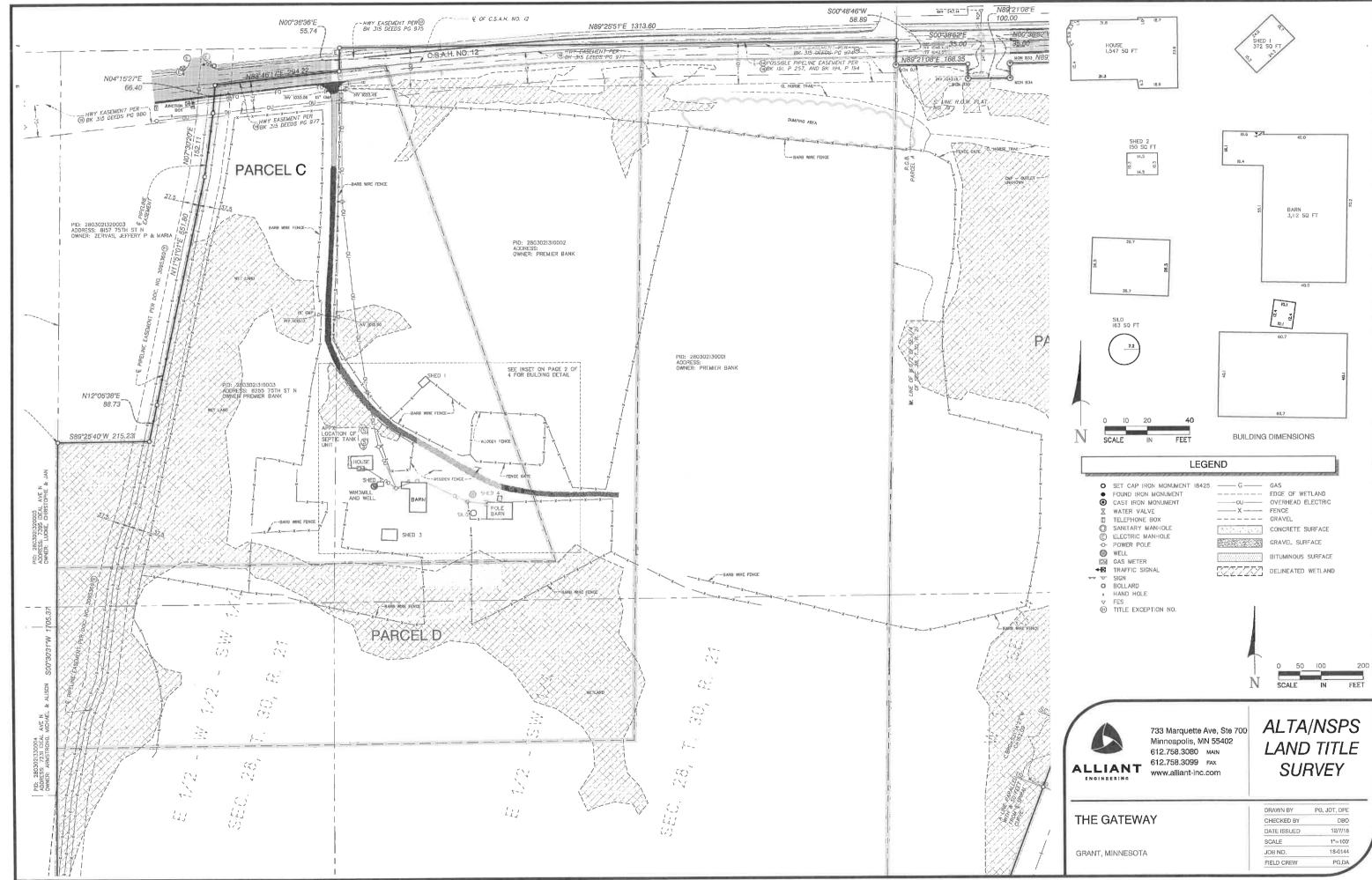
ALTA/NSPS LAND TITLE SURVEY

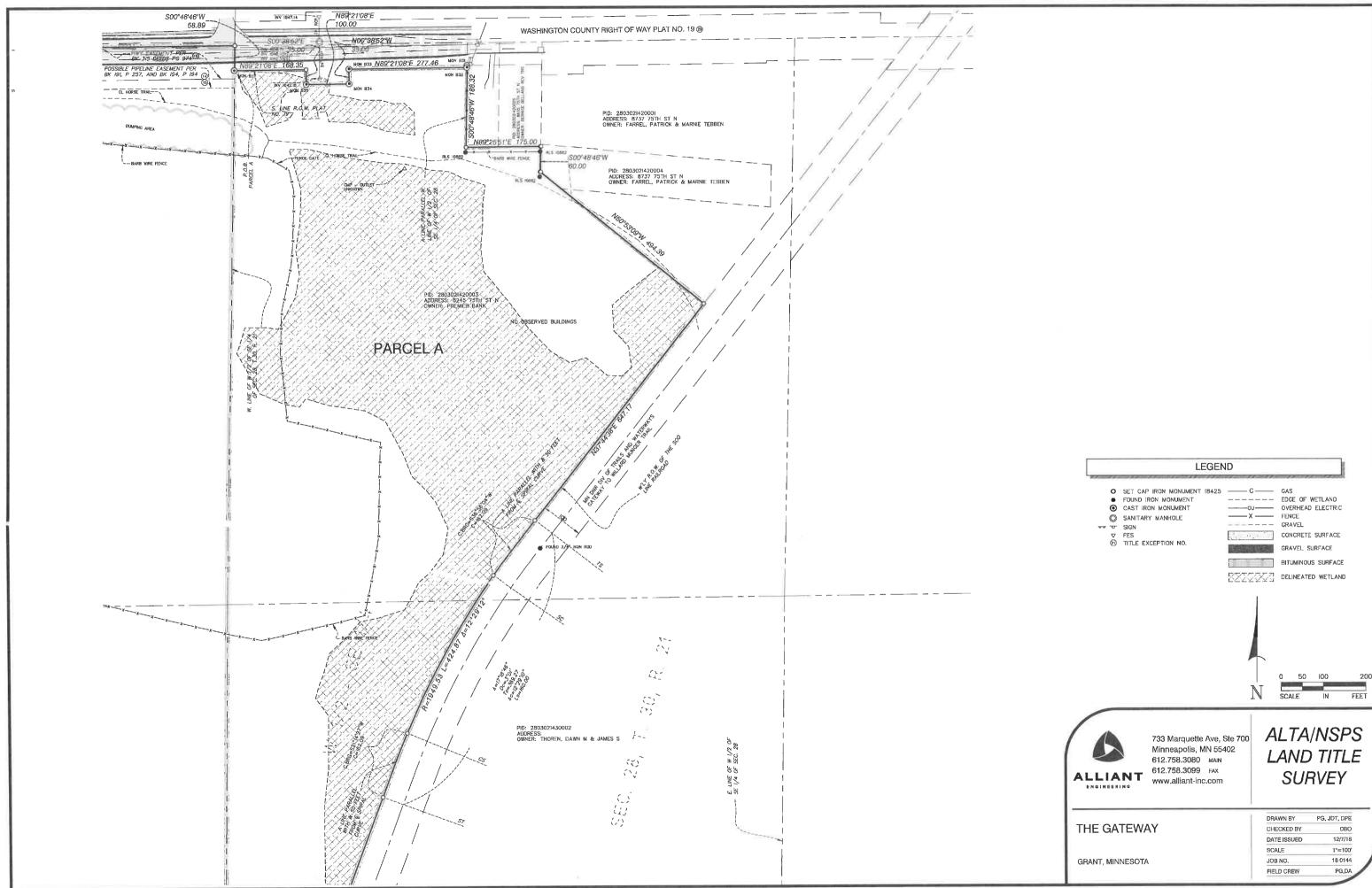
PG, JDT, DPE

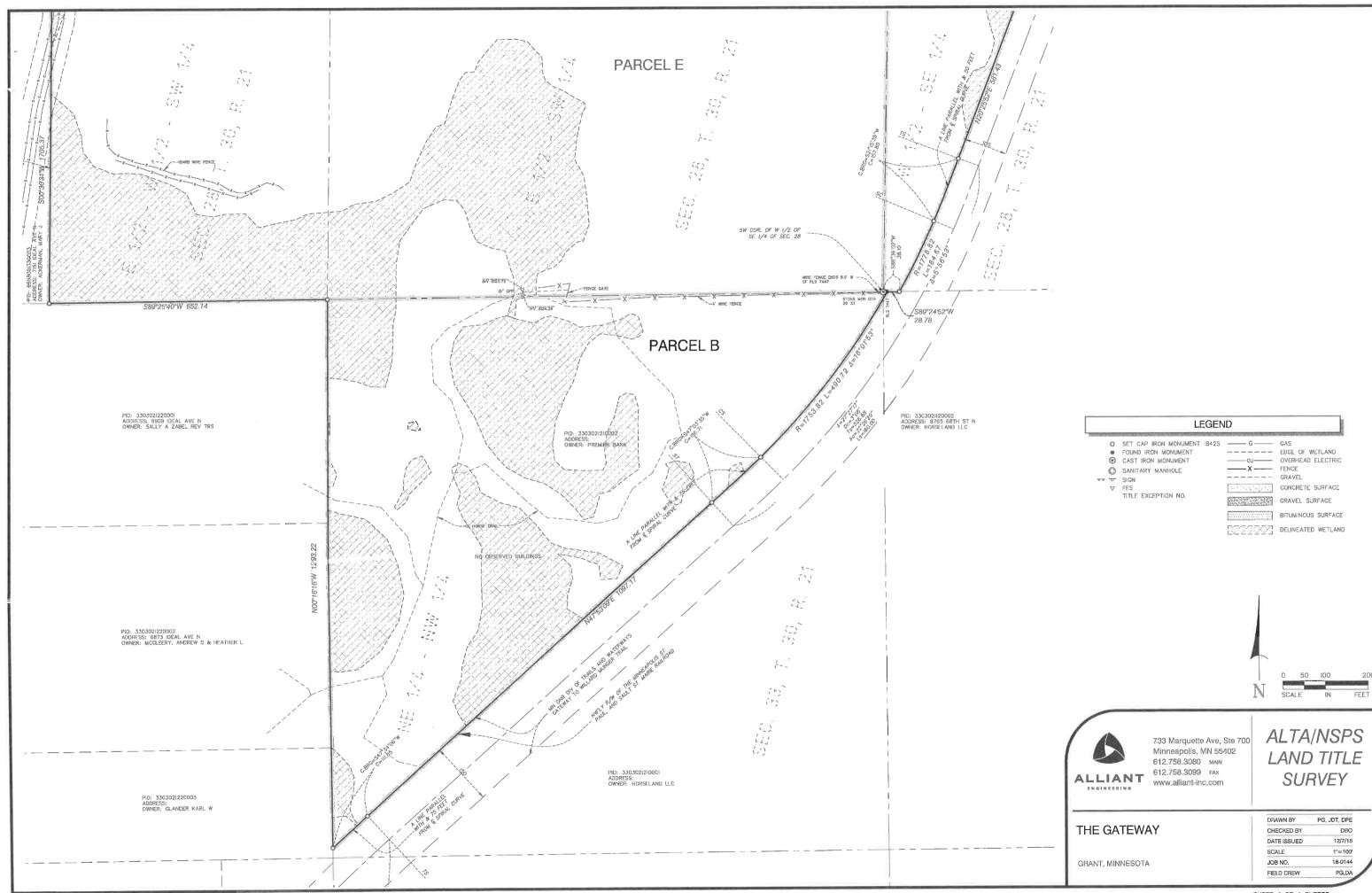
THE GATEWAY

DATE ISSUED 1"=250" SCALE GRANT, MINNESOTA JOB NO. 18-0144 FIELD CREW PG D

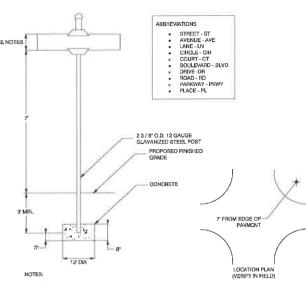
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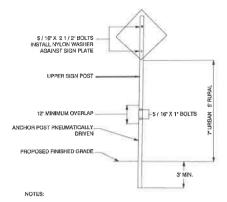


STREET SIGN DETAIL



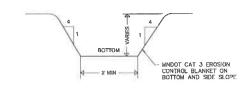
- 1. SIGN SIZE-DESIGN A: 9" (40 MPH AND LESS)
- 2. BLADE LENGTH SHALL BE NECESSARY
- 3. LETTER SIZE DESIGN A: 6" UPPER CASE 4" LOWER CASE
- DIAMOND GRADE, WHITE ON MNDOT GREET BACKGROUND FOR PUBLIC STREETS AND WHITE ON MNDOT BROWN BACKGROUND FOR PRIVATE STREETS, SEE CITY SPECIFICATIONS FOR MATERIALS.
- STREET NAMES SHALL BE SPELLED COMPLETELY EXCEPT FOR SUFFIXES WHICH MAY BE ABBREVIATED ON LONGER STREET NAMES.
- 6. SIGNS SHALL NOT HAVE BORDERS.
- 7. SIGN BRACKETS SHALL BE "LYLE SIGNS" NO E-450 OR APPROVED EQUAL
- A SIGN PLAN SHOWING SIGN COLORS, SIZES AND LETTERING MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO SIGN INSTALLATION.
- 9. FIRST LETTER OF EACH WORD TO BE "CAPITAL" LETTERS: REMAINING LETTERS OF EACH WORD TO BE LOWER CASE.
- 10. VERIFY SIGN REQUIREMENTS WITH CITY SPECIFICATIONS.

SIGN DETAIL

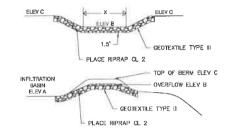


- MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY SPECIFICATIONS.
- 2. SIGN PANELS REFLECTIVE SHEETING, VIP DIAMOND GRADE.
- 3 BOLTS SHALL BE TAMPER PROOF
- 4. FLANGED CHANNEL SIGN POSTS SHALL BE PAINTED GREEN. 3 LB/LF AND 7' LONG.
- 5. SIGNS INSTALLED IN CONCRETE SHALL HAVE AN APPROVED BREAKAWAY DEVICE
- 6. EDGE OF SIGN SHALL BE MINIMUM OF 15" FROM BACK OF CURB.

DRAINAGE DITCH



RIP RAP OVERFLOW

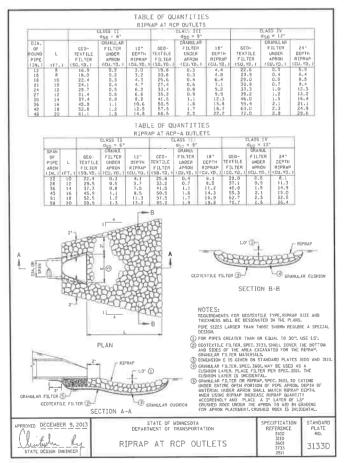


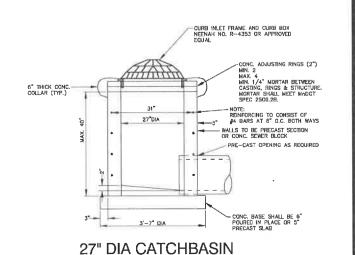
BASIN	ELEVATION A	ELEVATION B	ELEVATION C	DISTANCE X	DISTANCE Y
IB 1	1048	1048	1060	5	22
IB 2	1021	1021.60	1024	15	31
IB 3	1038	1038	1040	7	23
IB 4	1037	1037	1040	ő	29
IB 5	1043	1043	1044	10	18
IB 6	1037	1037	1038	10	18

SLOPE DETAIL TOP VIEW NOTE: REINFORCEMENT AND BESIGN OF END SECTION "C" SHALL COMBRE TO STANDARD REINFORCED CONCRETE PIPE CLASS H."B" WALL. GROOVED END ON OUTLET END SECTION. ROUNDED EDGE PERMITTED ON SLOPED END "B". HANDLING HOLES SHALL BE PRGYIDED AS NECESSARY FOR HANDLING OF APRONS. END VIEW A STD. PLATE 3006 JUINT, OR A STD. PLATE 3006 JUINT AND THE END OF THE STD. PLATE 3006 PIPE CONNECTING TO THE APROX STD. PLATE 3000 JUINT, THIS JUINT IS TO BE SEALED WITH A PREFORMED MASTIC SEALER. /ED _ Nay 8, 1985 STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION SPECIFICATION REFERENCE 2501, 2503 ABBROVED _____

CONCRETE APRON FOR

3100G





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DETAILS

GATEWAY

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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 Mar Rul MARK RAUSCH, PE 1-10-19 Date

QUALITY ASSURANCE/CONTRO DATE ISSUE

10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE

PROJECT TEAM DATA DESIGNED: DRAWN: 218-0144 PROJECT NO:

6

MPB

AKA

6 or 35 SHEET



SITE PLAN DATA:

2803021420003 = PARCEL A 3303021210002 = PARCEL B 2803021310003 = PARCEL D 2803021310002 = PARCEL D 2803021340001 = PARCEL E INCLUDED PIN'S:

LAND USE AND ZONING:

EXISTING LAND USE AND ZONING: PROPOSED LAND USE AND ZONING: A-2 AGRICULTURAL SMALL SCALE A-2 AGRICULTURAL SMALL SCALE

PROPOSED MINIMUM SINGLE LOT WIDTH PROPOSED AT FRONT SETBACK: 300 FT

PROPOSED SETBACKS: FRONT/CORNER SETBACK: 50 FT
FRONT/CORNER SETBACK TO PROPOSED RIGHT OF WAY: 65 FT SIDE YARD SETBACK: REAR SETBACK: 20 FT 50 FT

AREA DATA:

165.12 ACRES 45.98 ACRES * GROSS AREA WETLAND
C.S.A.H. 12 ROW DEDICATION
STREET ROW DEDICATION
TOTAL LOTS PROPOSED 3.45 ACRES 4.97 ACRES PROPOSED NEW DWELLING UNITS

* SEE WETLAND MANAGEMENT PLAN FOR ADDITIONAL WETLAND DATA AND BUFFER CALCULATIONS AND SETBACKS. WETLAND AREA INCLUDES ALL WETLAND AREA, INCLUDING AREA IN DEDICATED C.S.A.H. 12

LEGEND:

---- EASEMENT LINE -- - BUILDING SETBACK PROPERTY LINE LOT LINE ROW RETAINING WALL (BOULDER) ---- WETLAND BUFFER * DECKS ALLOWED TO ENCROACH 6' IN WETLAND BUFFER SETBACK --- - WETLAND SETBACK * WETLAND BUFFER AREA (NON BUILDABLE) POTENTIAL WETLAND BUFFER MONUMENT WETLAND AREA (WETLAND AREA) **♦** ST−1 SEPTIC TANK BORING LOCATION BRAUN BORING LOCATION BUILDABLE LOT AREA/PUBLIC RIGHT OF WAY NON-BUILDABLE AREA LOT AREA 25% GREATER SLOPE

WELL LOCATION

LOT AREA TABLE						
	LOT A	REA AC	IMPERVIOUS	AREAS S.F.		
LOT	TOTAL	BUILDABLE*	SHOWN**	DESIGN***		
B1-L1	7.23	3.92	8,775	20,000		
B1-L2	5.42	3.16	9,959	20,000		
B1-L3	5.00	3.20	8,384	20,000		
B1-L4	7.59	3.17	11,906	20,000		
81-L5	7.43	1.82	8,456	20,000		
B1L6	5.32	2.23	7,750	20,000		
B1-L7	5.64	2.58	8,554	20,000		
B1-L8	16.18	5.75	13,288	20,000		
B1-L9	23.79	10.99	15,580	20,000		
B1-L10	28.34	8.71	10,549	20,000		
B2-L1	16.01	2.27	6,714	20,000		
B2-L2	6.94	1.88	7,363	20,000		
B2-L3	5.41	2.00	7,261	20,000		
B2-L4	5.32	2.54	8,059	20,000		
B2-L5	5.17	2.94	9,753	20,000		
B2-L6	5.54	4.03	9,418	20,000		

NOTES
MINIMUM BUILDABLE AREA IS 1 AC.
MINIMUM BUILDABLE AREA IS 1 AC.
REFLECTS CURRENT PAD AND DRIVEWAY SHOWN IN PROPOSED SITE PLAN.
MAXIMUM IMPERVIOUS LOT COVERAGE USED FOR STORMWATER MANAGEMENT DESIGN. IF DESIGN IMPERVIOUS IS EXCEEDED, ADDITIONAL STORMWATER MANAGEMENT MAY BE REQUIRED.

65' FRONT SETBACK LINE DECK

TYPICAL LOT DETAIL NOT TO SCALE



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GRANT, MINNESOTA

CONSTRUCTION DOCUMENTS

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Malkel MARK RAUSCH, PE 1-10-19 Date

QUALITY ASSURANCE/CONTROL

DATE ISSUE 10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE
1-10-19 CONSTRUCTION DOCUMENT

PROJECT TEAM DATA

DESIGNED: DRAWN: 218-0144 PROJECT NO:

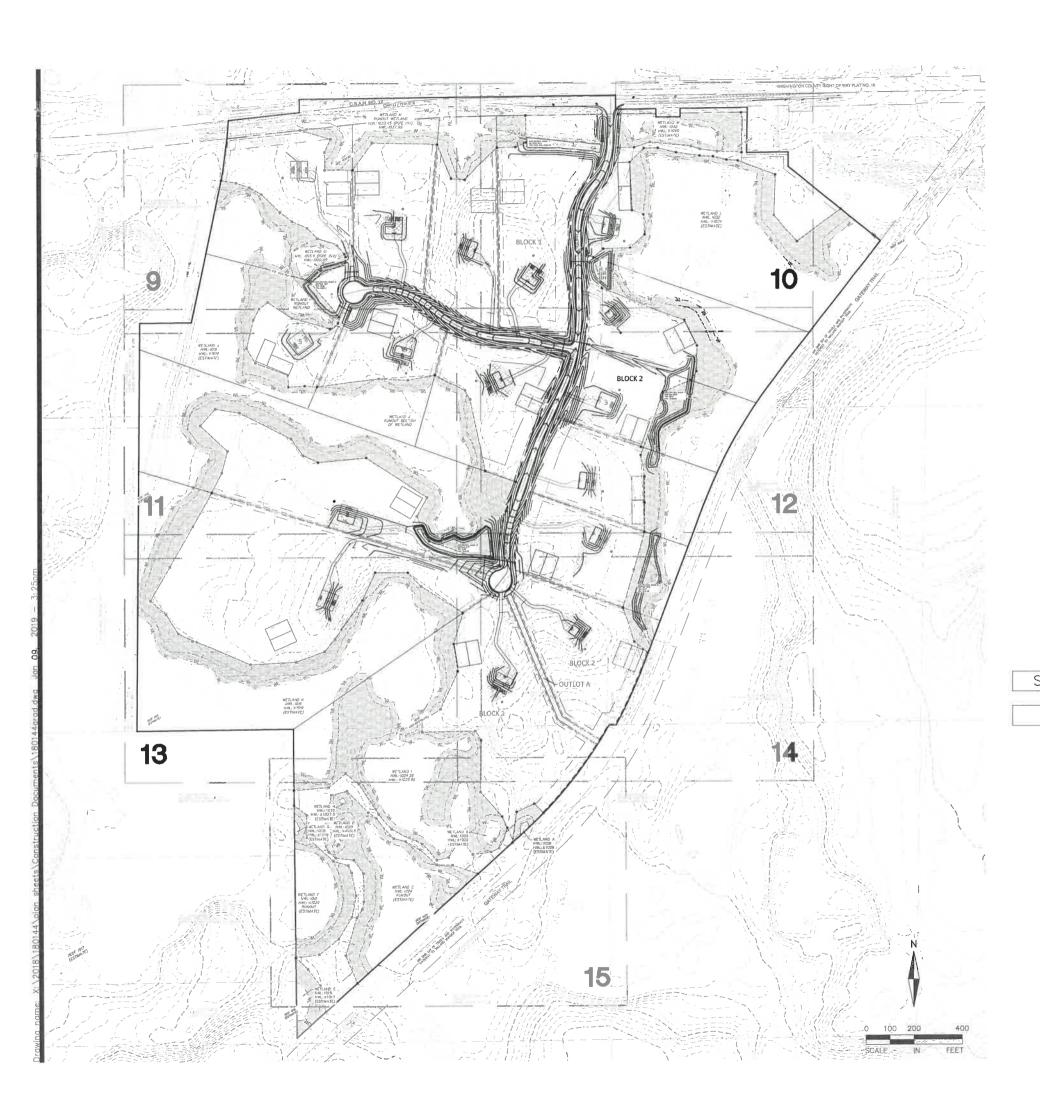
7 of 35 SHEET

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GRADING AND DRAINAGE NOTES:

- ALL FINISHED GRADES SHALL SLOPE AWAY FROM PROPOSED BUILDINGS AT MINIMUM GRADE OF 2.0%. ALL SWALES SHALL HAVE A MINIMUM SLOPE OF 2.0%.
- 72 HOUR NOTICE SHALL BE PROVIDED TO THE VBWD PRIOR TO WORK COMMENCING.
 48 HOUR NOTICE SHALL BE PROVIDED TO THE CITY ENGINEER PRIOR TO WORK COMMENCING.
- 3. THE CONTRACTOR SHALL KEEP THE ADJACENT ROADWAYS FREE OF DEBRIS AND PREVENT THE OFF-SITE TRACKING OF SOIL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND WATERSHED.
- 4. NOTIFY GOPHER STATE ONE CALL, AT (800) 252-1166, 48 HOURS PRIOR TO START
- ALL IMPROVEMENTS TO CONFORM WITH CITY OF GRANT CONSTRUCTION STANDARDS SPECIFICATION, LATEST EDITION.
- 6. ROCK CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL CONSTRUCTION ACCESS
- REFER TO GEOTECHNICAL REPORT AND PROJECT MANUAL, FOR SOIL CORRECTION REQUIREMENTS AND TESTING REQUIREMENTS.
- B. STRIP TOPSOIL PRIOR TO ANY CONSTRUCTION. REUSE STOCKPILE ON SITE. STOCKPILE PERIMETERS MUST BE PROTECTED WITH SILT FENCE.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 10. IMMEDIATELY FOLLOWING GRADING OF (3:1 OR GREATER) SIDE SLOPES AND DRAINAGE SWALES, WOOD FIBER BLANKET OR OTHER APPROVED SOIL STABILIZING METHOD (APPROVED BY ENGINEER) SHALL BE APPLIED OVER APPROVED SEED MIXTURE AND A MINIMUM OF 6" TOPSOIL.
- 11. THE GENERAL CONTRACTOR MUST DISCUSS DEWATERING PLANS WITH ALL SUBCONTRACTORS TO VERIFY NPDES REQUIREMENTS. IF DEWATERING IS REQUIRED DURING CONSTRUCTION, CONTRACTOR SHOULD CONSULT WITH EROSION CONTROL INSPECTOR AND ENGINEER TO DETERMINE APPROPRIATE METHOD.
- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ALL EROSION AND SEDIMENT CONTROL DEVICE LOCATION, DESCRIPTIONS, NOTES AND DETAILS INCLUDING CONCRETE WASHOUT STATION INSTRUCTIONS.
- 13. WETLAND BUFFER MONUMENT SIGNS SHALL BE INSTALLED AT EACH POINT WHERE A LOT LINE INTERSECTS WITH THE WETLAND BUFFER, SEE DETAILS FOR SIGN TYPE.
- 14. BUILDING PERMITS ARE REQUIRED FOR ALL RETAINING WALLS 4 FEET IN HEIGHT OR GREATER AND THE WALLS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER WITH DESIGN REVIEWED AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
- 15. HOME BUILDERS FOR INDIVIDUAL LOTS ARE RESPONSIBLE FOR MAINTAINING DITCH FLOW. CULVERT PIPES TO BE PLACED UNDER DRIVEWAYS TO MAINTAIN PROPER DRAINAGE.

BUILDING PADS GRADING NOTES:

1. PAD ELEVATIONS ARE FLEXIBLE — OPTIONAL GRADING IS SHOWN. PRIOR TO CONSTRUCTION OF ANY HOME, ALL PLANNED HOME LOCATIONS MUYST BE SUBMITTED TO THE VBWD ENGINEER. LOW FLOOR ELEVATIONS MUST REMAIN A MINIMUM OF 2'

ESTIMATED FOE'S

-WEST (ESTIMATE) - 917 EOF ALLOWS FOR A 920 LFE -EAST (ESTIMATE) - 1034 EOF ALLOWS FOR A 937 LFE

2. LOTS B1-L5 AND B1-L8 NEED TO BE POSITIONED SO THE EAST INFILTRATION BASINS ARE NOT SETTING THE MINIMUM FLOOR.

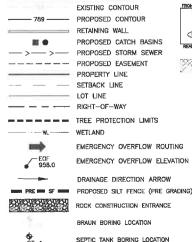
SEE SHEETS 16-20 FOR INFILTRATION BASIN NOTES

SEE SHEET 26 FOR CONSTRUCTION SEQUENCING

DEVELOPER:

THE EXCELSIOR GROUP 1660 HIGHWAY 100 S. SUITE 400 ST. LOUIS PARK, MN 55416

GRADING LEGEND:





FLEXIBLE PAD GRADING

10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 1-10-19 CONSTRUCTION DOCUMEN

75TH STREET 1, MINNESOTA

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Maltand

DUALITY ASSURANCE/CONTRO

MARK RAUSCH, PE 1-10-19 Date

DATE ISSUE

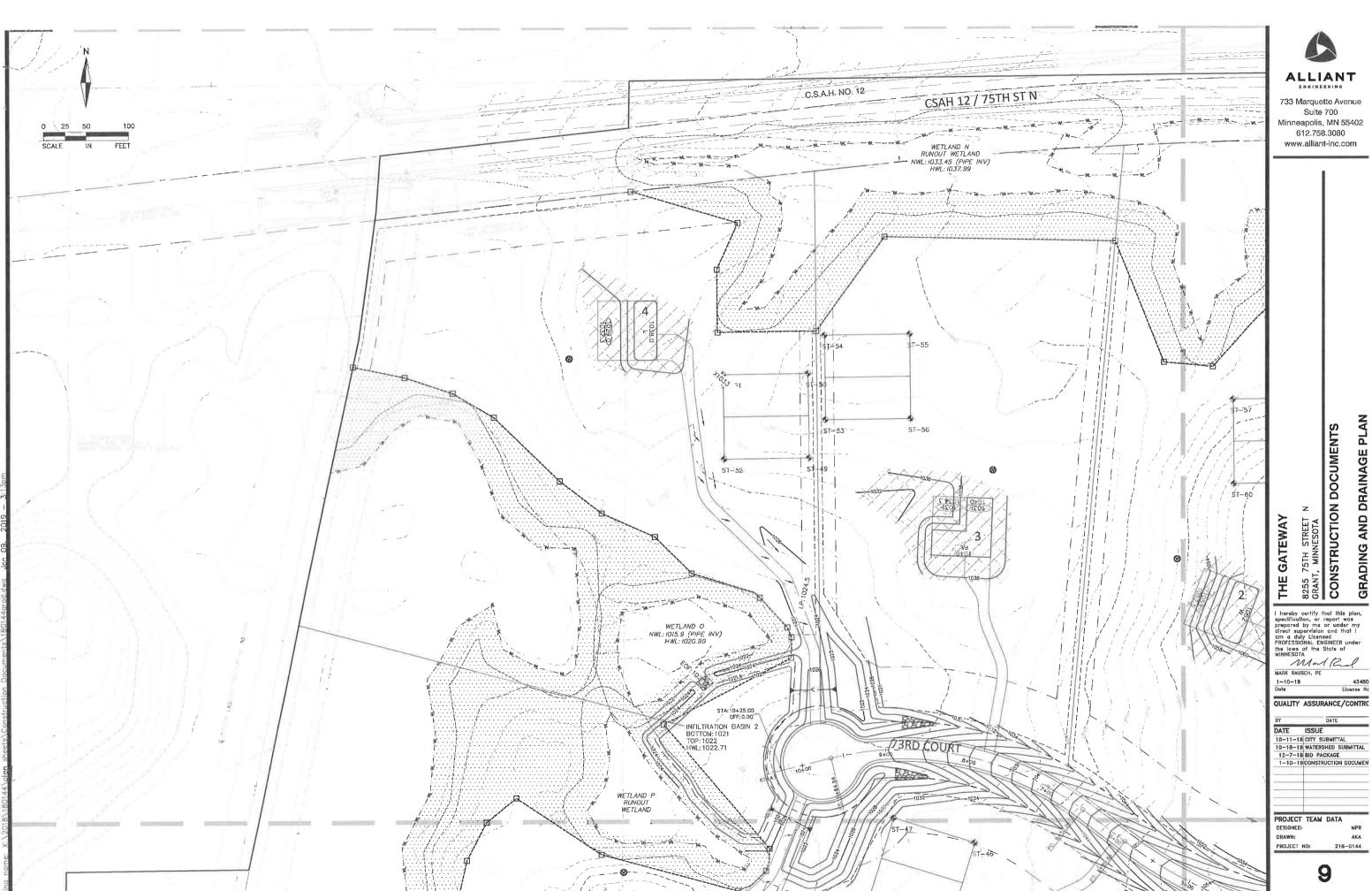
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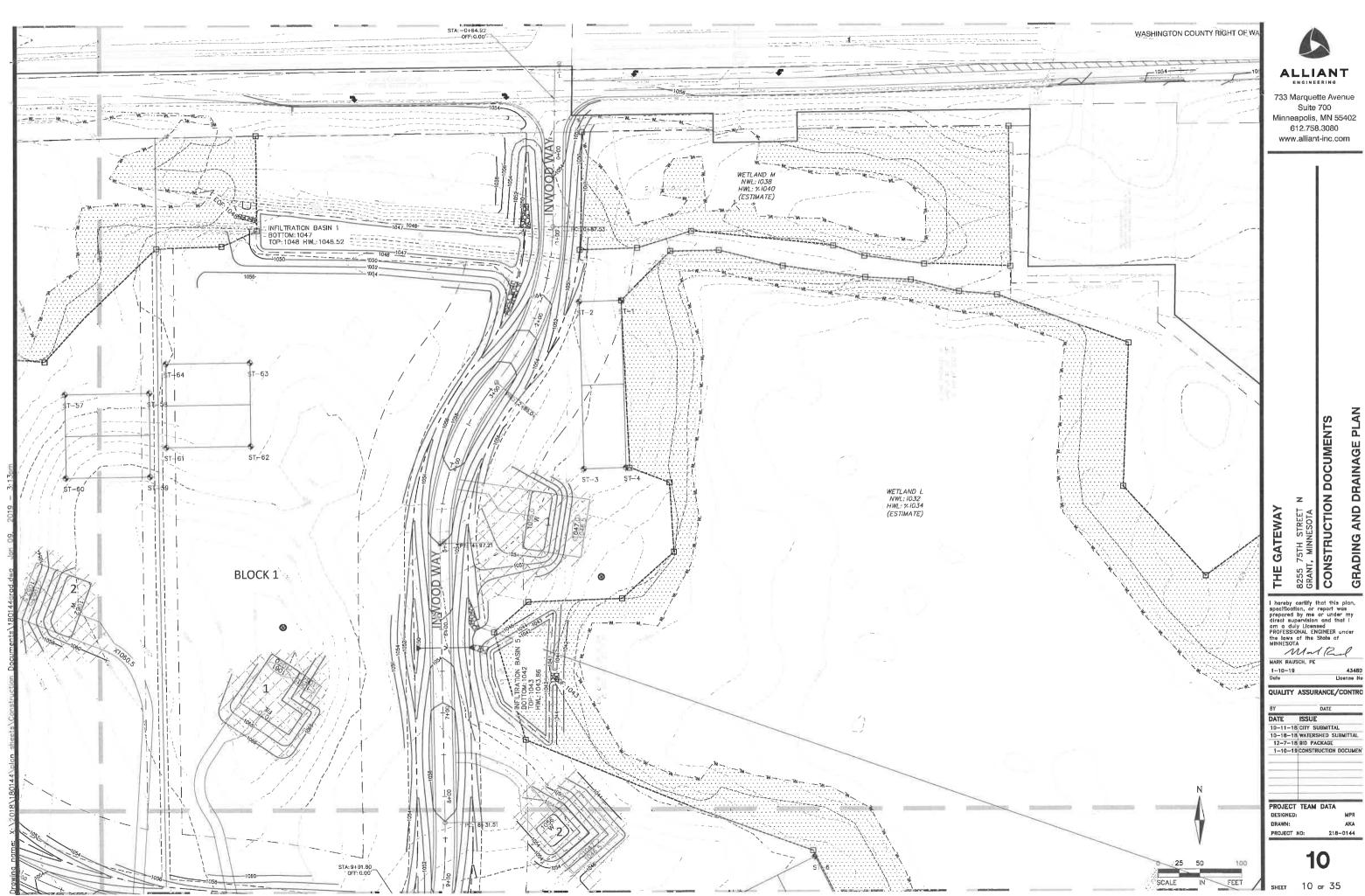
PROJECT TEAM DATA DESIGNED: DRAWN:

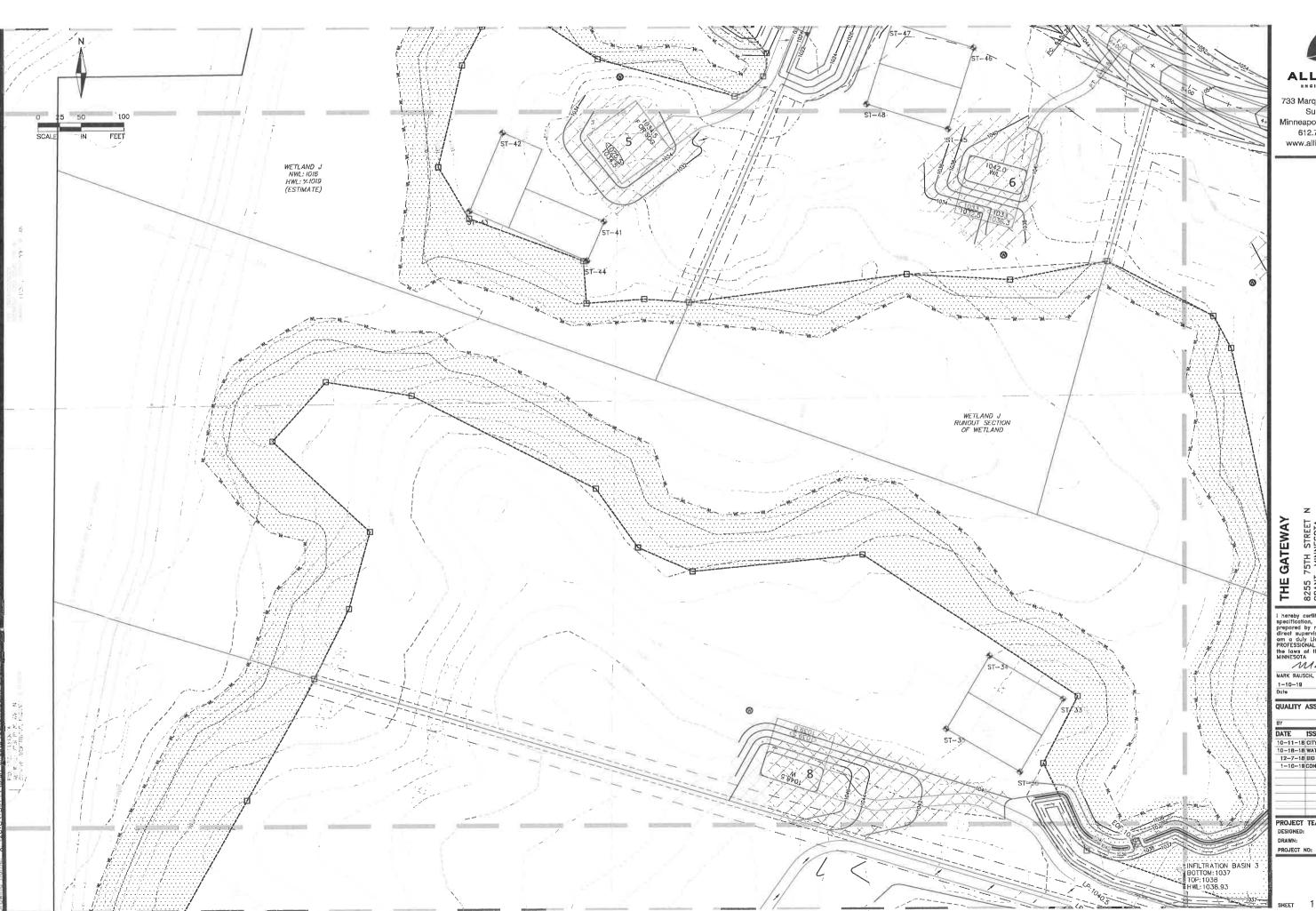
PROJECT NO: 218-0144

8









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> GRADING AND DRAINAGE PLAN 8255 75TH STREET N
> GRANT, MINNESOTA
> CONSTRUCTION DOCUMENTS

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QUALITY ASSURANCE/CONTRO

DATE ISSUE

10-11-18 CITY SUBMITTAL

10-18-18 WATERSHED SUBMITTAL

12-7-18 BID PACKAGE

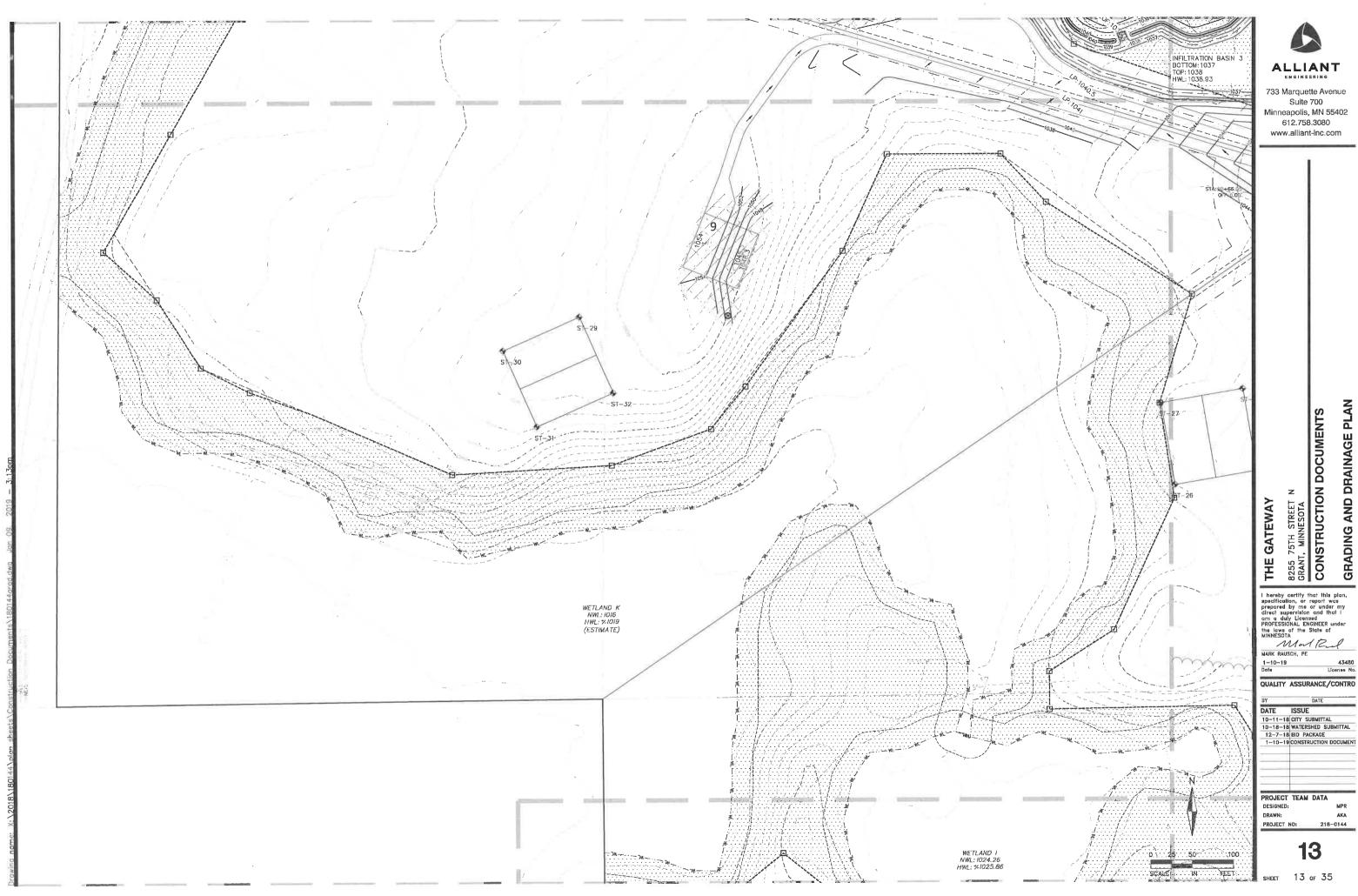
1-10-19 CONSTRUCTION DOCUMEN

PROJECT TEAM DATA DESIGNED:

AKA 218-0144 11

12 of 35

FEET





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> GRADING AND DRAINAGE PLAN GRANT, MINNESOTA
>
> CONSTRUCTION DOCUMENTS

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MARK RAUSCH, PE

1. 10-11.

1-10-19 Date

QUALITY ASSURANCE/CONTRO

BY DATE

DATE ISSUE

10-11-18 CITY SUBMITTAL

10-18-18 WATERSHED SUBMITTAL

12-7-18 BID PACKAGE

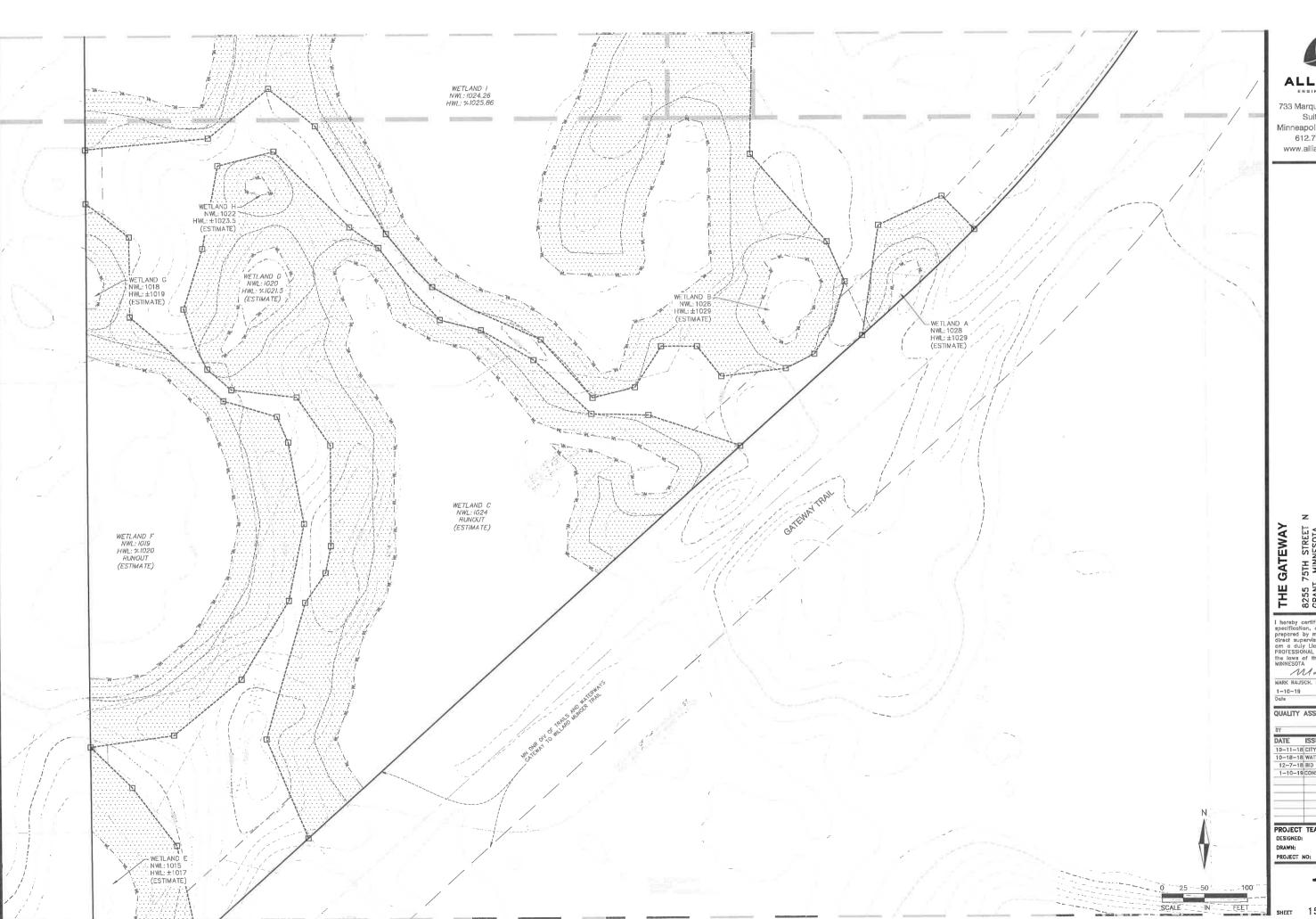
1-10-19 CONSTRUCTION DOCUMEN

PROJECT TEAM DATA DESIGNED:

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14 of 35 SHEET

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GRADING AND DRAINAGE PLAN GRANT, MINNESOTA

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DATE ISSUE

10-11-18 CITY SUBMITTAL

10-18-18 WATERSHED SUBMITTAL

12-7-18 BID PACKAGE

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PROJECT TEAM DATA DESIGNED:

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1-10-19 Date

DATE ISSUE 10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE 1-10-19 CONSTRUCTION DOCUMEN

DESIGNED:

GATEWAY

am a duly Licensed
PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

Markens MARK RAUSCH, PE

QUALITY ASSURANCE/CONTRO

PROJECT TEAM DATA

PROJECT NO: 218-0144

16

16 of 35

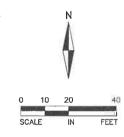
ВОТТОМ: 1047 TOP: 1048 HWL: 1048.52

INFILTRATION BASIN NOTES:

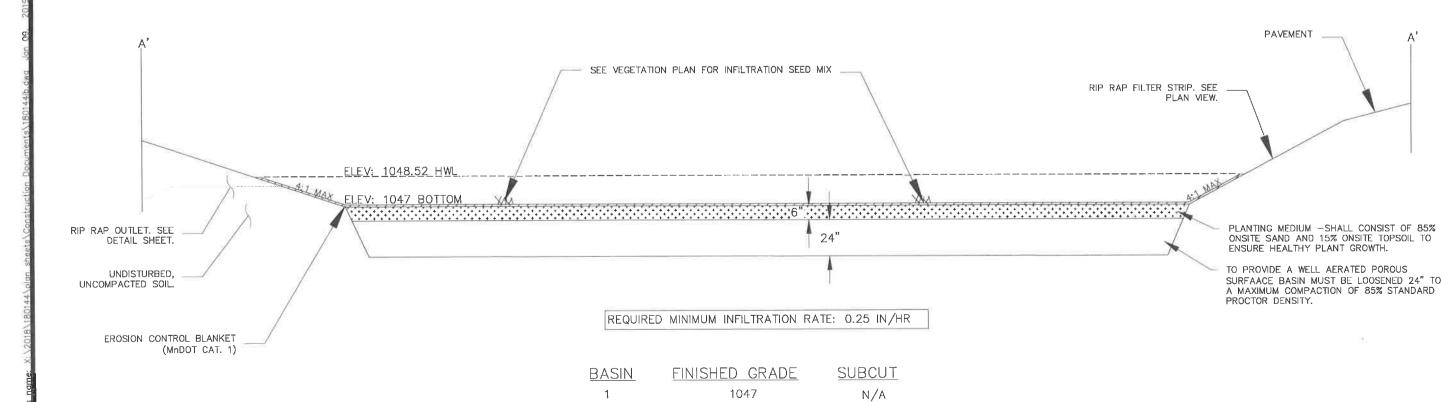
- ALL TEMPORARY EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO INSTALLATION/CONSTRUCTION OF INFILTRATION BASIN.
- 2. ALL STORMWATER RUNOFF SHALL BE DIVERTED AWAY FROM INFILTRATION AREA TO TEMPORARY SEDIMENT TRAP UNTIL BASIN IS COMPLETELY GRADED AND PLANTED.
- . CONSTRUCTION OF BASIN SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF PONDED WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR COMPACTION.
- 4. COMPACTION AND SMEARING OF THE SOILS BENEATH THE FLOOR AND SIDE SLOPES OF THE INFILTRATION BASIN AREA, SHALL BE MINIMIZED. DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE INFILTRATION BASIN SHALL BE CORDED OFF TO PREVENT ACCESS BY HEAVY EQUIPMENT. ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE BASIN INCLUDES EXCAVATION HOES, LIGHT EQUIPMENT WITH TURF TYPE TIRES, MARSH EQUIPMENT OR WIDE TRACK LOADERS.
- 5. THE INFILTRATION FACILITY SHALL NOT BE EXCAVATED TO FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED. THE FINAL PHASE OF EXCAVATION SHALL REMOVE ALL ACCUMULATED SEDIMENT AND BE DONE SY LIGHT, TRACKED EQUIPMENT TO AVOID COMPACTION OF THE BASIN FLOOR.
- 5. IF COMPACTION OCCURS AT THE BASE OF THE BASIN, THE SOIL SHALL BE REFRACTURED TO A DEPTH AT LEAST 36". IF SMEARING OCCURS, THE SMEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO—TILLING.
- 6. CONTRACTOR TO DIG TEST PITS DURING TIME OF CONSTRUCTION TO ENSURE PROPER INFILTRATION RATE IS BEING MET.

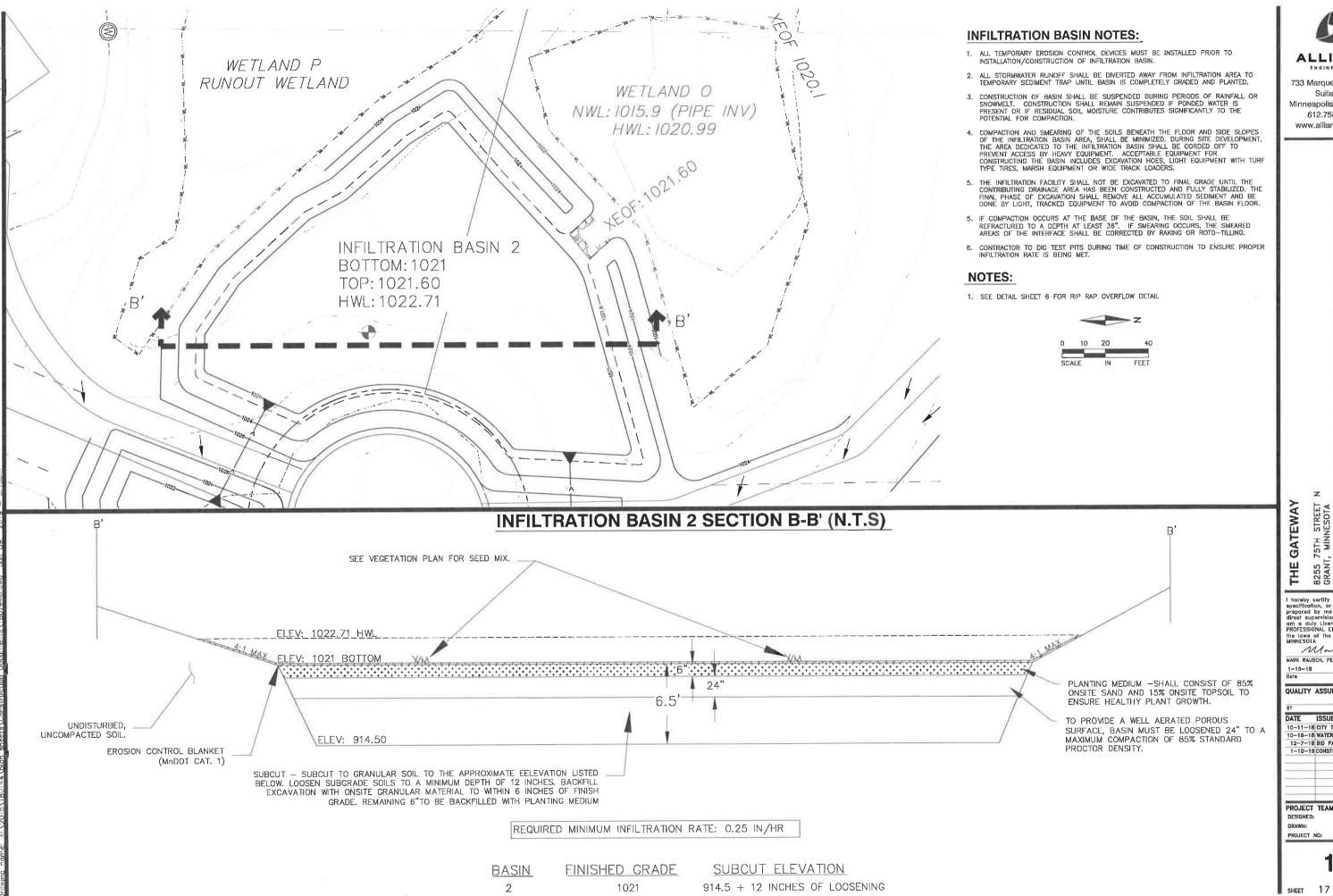
NOTES:

1. SEE DETAIL SHEET 6 FOR RIP RAP OVERFLOW DETAIL



INFILTRATION BASIN 1 SECTION A-A' (N.T.S)





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INFILTRATION BASIN 2 SECTION CONSTRUCTION DOCUMENTS

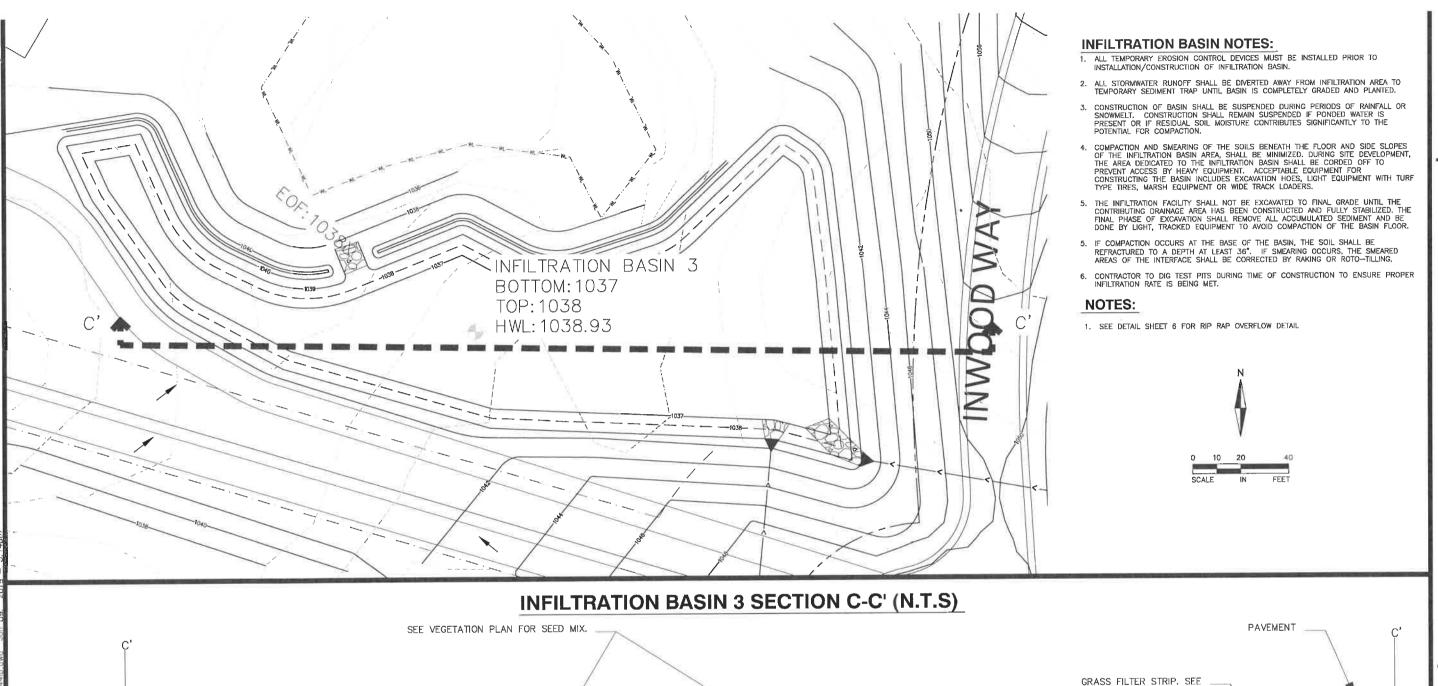
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MARK RAUSCH, PE

QUALITY ASSURANCE/CONTRO

10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE

SHEET 17 OF 35



24"

SUBCUT ELEVATION

N/A

REQUIRED MINIMUM INFILTRATION RATE: 0.25 IN/HR

FINISHED GRADE

1037

BASIN

3

ELEV: 1038.93 HWL

UNDISTURBED, UNCOMPACTED SOIL.

EROSION CONTROL BLANKET

(MnDOT CAT. 1)



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Mark MARK RAUSCH, PF

1-10-19

QUALITY ASSURANCE/CONTRO

ISSUE 10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE

SURFAACE BASIN MUST BE LOOSENED 24" TO A MAXIMUM COMPACTION OF 85% STANDARD PROCTOR DENSITY. PROJECT TEAM DATA DESIGNED

PLANTING MEDIUM —SHALL CONSIST OF 85% ONSITE SAND AND 15% ONSITE TOPSOIL TO ENSURE HEALTHY PLANT GROWTH.

TO PROVIDE A WELL AERATED POROUS

PROJECT NO:

218-0144



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INFILTRATION BASIN 4 SECTION

CONSTRUCTION DOCUMENTS

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Mark Rul MARK RAUSCH, PE

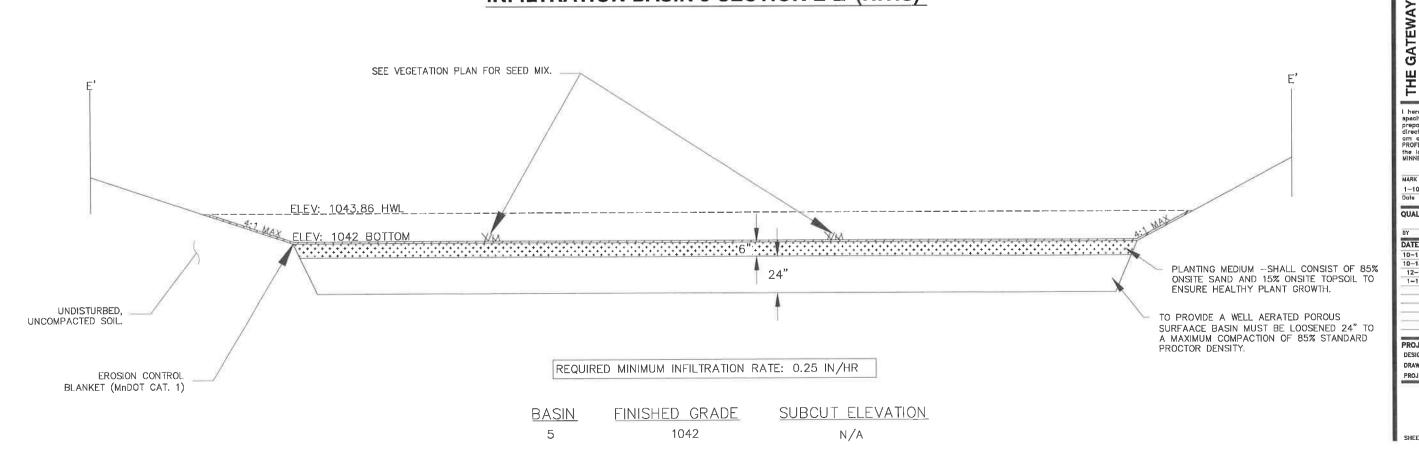
QUALITY ASSURANCE/CONTROL

DATE ISSUE 10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE

1-10-19 CONSTRUCTION DOCUMENT

PROJECT TEAM DATA PROJECT NO: 218-0144

INFILTRATION BASIN 5 SECTION E-E' (N.T.S)





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CONSTRUCTION DOCUMENTS INFILTRATION BASIN 5 SECTION

8255 75TH STREET N
GRANT, MINNESOTA
CONSTRUCTION DOCUMENTS

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MARK RAUSCH, PE

1-10-19

43480

Date

License No.

QUALITY ASSURANCE/CONTRO

BY DATE

DATE ISSUE

10-11-18 CITY SUBMITTAL

10-18-18 WATERSHED SUBMITTAL

12-7-18 BID PACKAGE 1-10-19 CONSTRUCTION DOCUMEN

PROJECT TEAM DATA
DESIGNED: MPR
DRAWN: AKA
PROJECT NO: 218-0144

20

HEET 20 of 35



733 Marquette Avenue Suite 700 Minneapolis, MN 55402 612.758.3080

www.alliant-inc.com

CONSTRUCTION DOCUMENTS

INFILTRATION BASIN 6 SECTION Mart Rul

MARK RAUSCH, PE

1-10-19

PLANTING MEDIUM —SHALL CONSIST OF 85% ONSITE SAND AND 15% ONSITE TOPSOIL TO ENSURE HEALTHY PLANT GROWTH.

TO PROVIDE A WELL AERATED POROUS SURFAACE BASIN MUST BE LOOSENED 24" TO A MAXIMUM COMPACTION OF 85% STANDARD

PROCTOR DENSITY.

QUALITY ASSURANCE/CONTRO

DATE ISSUE 10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE 1-10-19 CONSTRUCTION DOCUMEN

PROJECT TEAM DATA 218-0144 PROJECT NO:

21 of 35

SUBCUT ELEVATION FINISHED GRADE 1036

UNDISTURBED, UNCOMPACTED SOIL. EROSION CONTROL BLANKET (MnDOT CAT. 1)

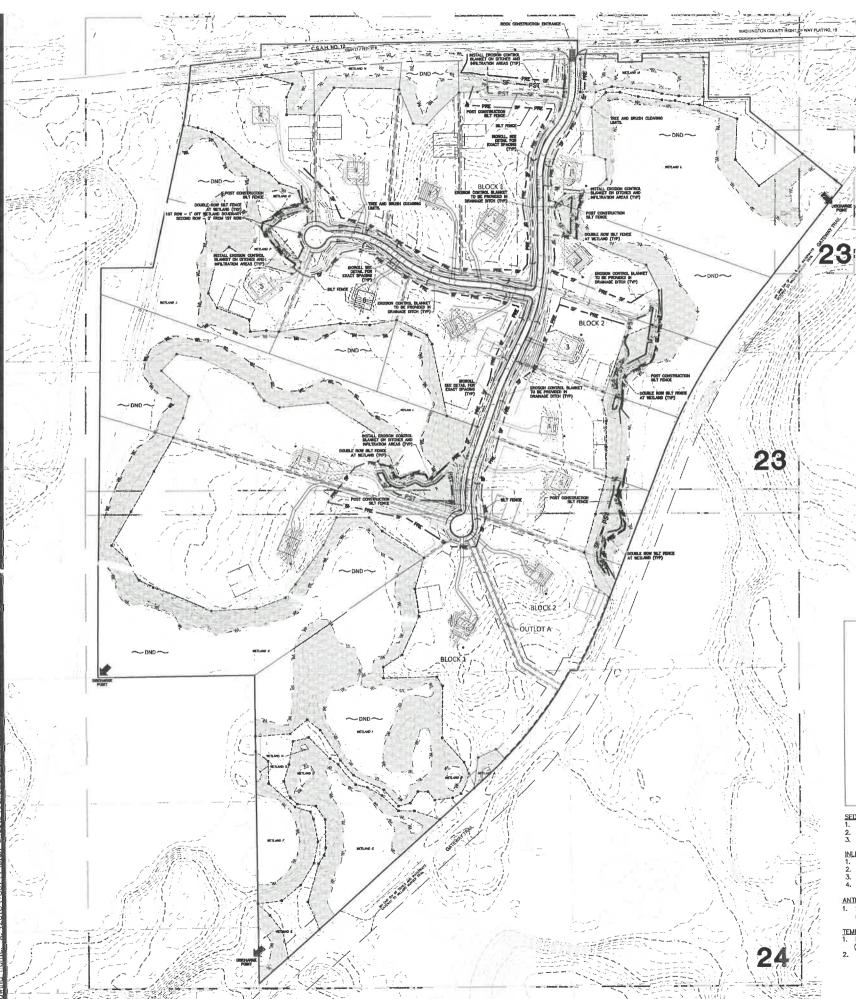
REQUIRED MINIMUM INFILTRATION RATE: 0.25 IN/HR

BASIN

6

N/A

24"



LEGEND:

EXISTING CONTOUR PROPOSED CONTOUR DIRECTION OF DRAINAGE H . PROPOSED CATCH BASINS - PROPOSED STORM SEWER PROPOSED EASEMENT - SETBACK LINE LOT LINE RIGHT-OF-WAY PRE SF PROPOSED SILT FENCE (PRE GRADING) PST SF PROPOSED SILT FENCE (POST GRADING)

П RIOROLL DND V V V

DO NOT DISTURB AREAS ROCK CONSTRUCTION ENTRANCE

FI EXIBLE PAD GRADING

DEVELOPER:

THE EXCELSIOR GROUP 1660 HIGHWAY 100 S., SUITE 400 ST. LOUIS PARK, MN 55416

NOTE TO CONTRACTOR:

THE MASS GRADING CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT RESPONSIBLE FOR INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) AS SHOWN IN THE GATEWAY SWPPP (EXCEPT FOR POST GRADE BMPS NEEDED AFTER UTILITY CONSTRUCTION ACTIVITY). THE BMPS ARE TO BE INSTALLED AT A MINIMUM AS SHOWN IN THE PLAN, IF CONDITIONS ARISE. ADDITIONAL BMP SUPPLEMENTATION TO PREVENT SITE EROSION OR SEDIMENT TRANSPORT MAY BE NECESSARY. THE MASS GRADING CONTRACTOR IS RESPONSIBLE FOR ALL BMPS REQUIRED TO COMPLETE THE MASS GRADING ACTIVITIES AND SUBSEQUENT TEMPORARY SOIL STABILIZATION NECESSARY TO PREPARE SITE FOR STREET AND UTILITY CONSTRUCTION AND HOME BUILDING. AT THE COMPLETION OF MASS GRADING WORK AND SATISFACTORY SITE SOIL STABILIZATION, THE DEVELOPER AND MASS GRADING CONTRACTOR SHALL CORPONATOR THE TRANSFER OF MPDES PERMIT RESPONSIBILITIES TO THE STREET AND UTILITY CONTRACTOR AND THE CITY.

UTILITY CONTRACTOR AND THE CITY.

THE STREET AND UTILITY CONTRACTOR AND CITY WILL THEN ASSUME THE RESPONSIBILITY TO PROVIDE INSPECTION AND MAINTENANCE OF ANY IN-PLACE BMPS AS WELL AS INSTALL THE ADDITIONAL BMPS REQUIRED IN THE STREET AND UTILITY CONSTRUCTION DOCUMENT SWPPP. UPON COMPLETION OF STREET AND UTILITY CONSTRUCTION, THE STREET AND UTILITY CONSTRUCTION, THE STREET AND UTILITY CONTRACTOR SHALL REMOVE ANY BMPS INSTALLED DURING THE STREET AND UTILITY PHASE THAT ARE NO LONGER REQUIRED AND COORDINATE THE TRANSFER OF NPDES PERMIT RESPONSIBILITIES BACK TO THE DEVELOPER OR TERMINATE THE PORTION OF THE NPDES PERMIT TRANSFERRED TO THE CITY AND THEIR CONTRACTOR.



VICINITY MAP SCALE: 1" = 3000'

NOTE:

SEE SHEET 25 FOR ALL EROSION, SEDIMENT CONTROL AND VEGETATION NOTES AND DETAILS.

CONSTRUCTION SEQUENCE:

PRIOR TO LAND DISTURBANCE:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.

2. PREPARE TEMPORARY PARKING AND STORAGE AREA

3. INSTALL ALL PRE—GRADING SILT FENCE. ALL WETLANDS NEAR PROPOSED INFILTRATION BASINS TO BE PROTECTED WITH DOUBLE ROW SILT FENCE. PROVIDE TREE PROTECTION SILT FENCE AS NECESSARY.

DURING CONSTRUCTION:

1. TO THE EXTENT POSSIBLE GRADING SHALL BE PHASED TO MINIMIZE THE AMOUNT OF DISTURBED AREAS DURING

CONSTRUCTION.
STOCKPILE TOPSOIL AND OTHER EXCAVATED MATERIALS AT LEAST 50 FEET FROM ALL WETLAND BUFFERS. STOCKPILE MUST BE SURROUNDED BY SILT FENCE.

3. COMPLETE MASS GRADING AND INSTALL TEMPORARY AND

PERMANENT SEEDING AND PLANTINGS PER VEGETATION PLAN

(THIS SHEET).
REFER TO INFILTRATION NOTES ON SPECIFIC CONSTRUCTION SEQUENCING.

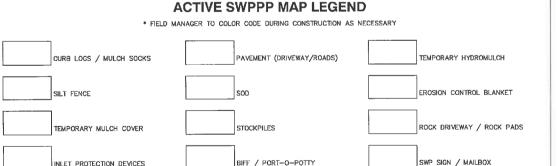
SEQUENCING.
STORM SEWER/CULVERTS SHALL BE INSTALLED DURING GRADING
CONSTRUCTION TO FACILITATE DRAINAGE ROUTES. INSTALL RIP
RAP OUTFALLS AS SHOW ON THE PLAN IMMEDIATELY AFTER
BASIN CONSTRUCTION.

INSTALL POST GRADING SILT FENCE AROUND INFILTRATION AREAS AND PROVIDE DITCH CHECKS PER THE DETAIL.

7. PREPARE THE SITE FOR PAVING. 8. PAVE SITE.

POST CONSTRUCTION:

1. REMOVE ALL TEMPORARY EROSION—CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION AS DETERMINED BY THE INSPECTOR AND/OR VBWD ENGINEER.



SEDIMENT BARRIERS

1. SILT FENCE (MnDOT 3886)

CURB LOG ROCK WEEPER

INLET PROTECTION DEVICES

1. WIMCO (MINDOT TYPE A & C)

2. INFRASAFE STORM DRAIN/CULVERT

3. SILT SACK (MINDOT TYPE A)

4. DANDY BAG (MINDOT TYPE B)

ANTI-TRACKING CONTROL

1. 2" CRUSHED CLEAR ROCK (LAND DEVELOPMENT)

MnDOT-21-111 (OATS 21-120 DAY STABILIZATION) MnDOT-22-111 (1-2 YR. STABILIZATION)

STABILIZATION BMP'S

1. STRAW/HAY

MnDOT TYPE 1 MULCH 2. EROSION CONTROL BLANKET

MnDOT CAT. 3 3. HYDROMULCH

MnDOT TYPE 5

TURF REINFORCEMENT MAT SC250 NORTH AMERICAN GREEN OR EQUAL-MNDOT CAT 6

CRADING ACTIVITY
1. CONCRETE WASHOUT IS DONE
BY TRUCK WITH A MOBILE
WASHOUT SYSTEM PROVIDED
AND COMPLETED BY THE
CONCRETE CONTRACTOR.

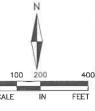
PERMANENT SEED MIX/STABILIZATION

GENERAL AREAS — MNDOT 35—241 OR APPROVED EQUAL IMPILITATION AREAS — MNDOT 33—262 OR APPROVED EQUAL WETLAND BUFFERS — MNDOT 35—241 OR APPROVED EQUAL

SEDING SHALL BE APPLIED FROM APRIL 15 — JULY 20 OR SEPTEMBER 20 — FREEZE UP. IF HYDROSEDING UTILIZE APPROXIMATELY 500 GALLONS OF WATER PER ACRE. REFER TO MY/DOT SPEC 3884 FOR PROPER INSTALLATION OF HYDRO-SEED. ALL MATIVE SEEDS USED ON THIS PROJECT SHALL BE CERTIFIED ID BE OF MINNESOTO AGKIN BY THE MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCIA). SITE TO BE PREPARED BY LOOSENING TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES. THE SITE TO BE HARROWED OR RAKED FOLLOWING SEEDING. AND THEN PACKED USING A CULTI-PACKER OR EQUIVALENT. SEE MNDOT SEEDING MANUAL FOR REFERENCE.

MAINTAIN SEEDED AREAS BY WATERING, REMULCHING AND REPLANTING AS NECESSARY TO ESTABLISH A UNIFORMLY DENSE STAND OF THE SPECIFIED GRASSES UNTIL ACCEPTED. ANY AREAS FAILING TO ESTABLISH A STAND SHALL BE RESEEDED, REFERTILIZED AND REMULCHED WHENEVER TO'S VEGETATIVE COVER IS NOT ACHIEVED, RESEEDING SHALL CONFORM IN ALL RESPECTS TO THESE SPECIFICATIONS. THE CONTRACTIOR SHALL REPAIR ANY DAMAGE TO THE WORK AREAS RESULTING FROM PROSION AND/OR EQUIPMENT. THE CONTRACTIOR SHALL REPAIR ANY DAMAGE TO THE WORK AREAS RESULTING FROM LOADING RESEEDING, ETC. AS

REFER TO MN STATE SEED MIX MANUAL



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GATEWAY

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E hereby certify that this plan, arn a duly Licensed
PROFESSIONAL ENGINEER under
the laws of the State of
MINNESOTA

Mark MARK RAUSCH, PE 1-10-19

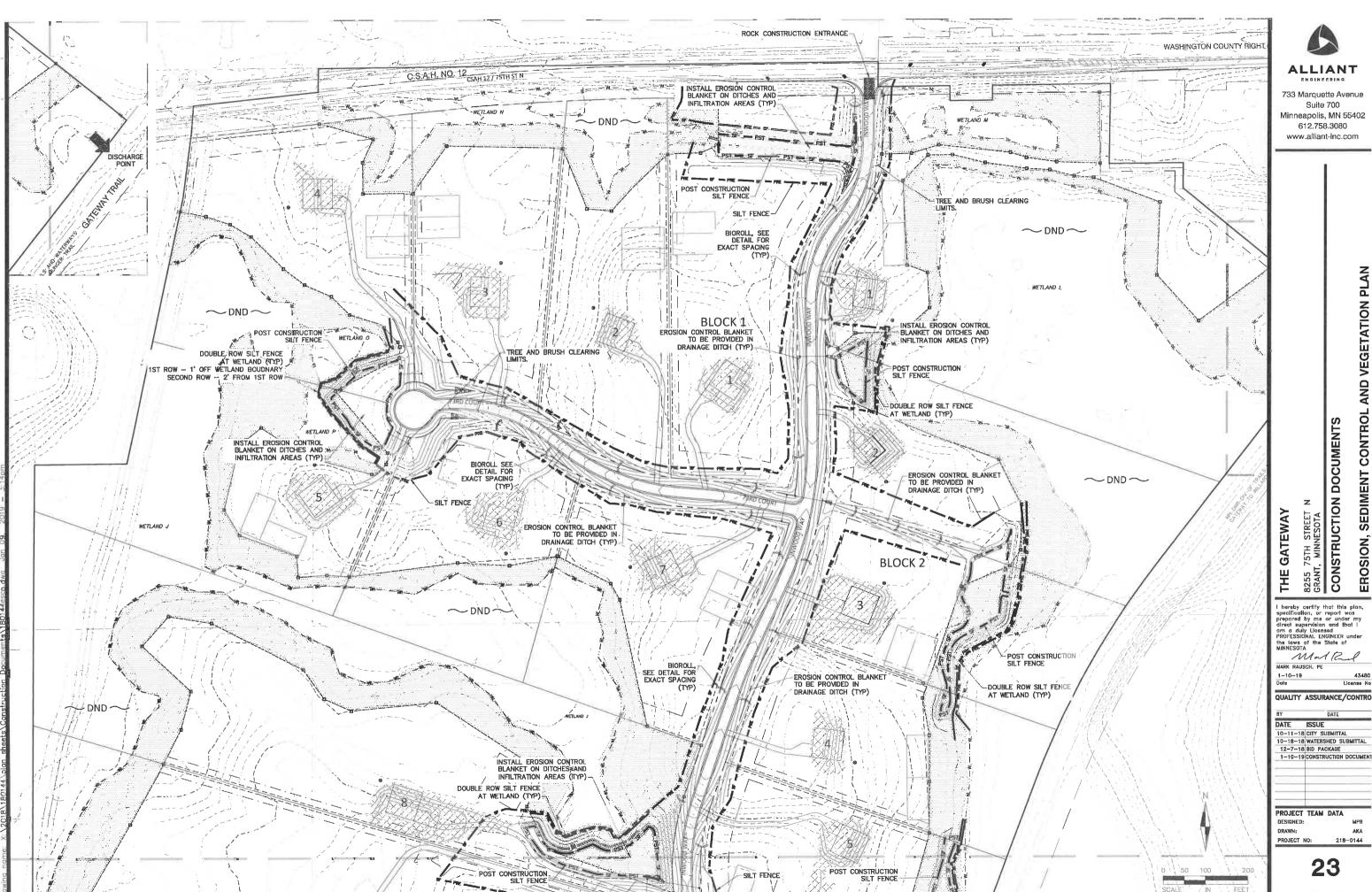
QUALITY ASSURANCE/CONTRO DATE ISSUE 10-11-18 CITY SUBMITTAL

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PROJECT TEAM DATA DESIGNED: PROJECT NO:

SHEET

218-0144



23 or 35



24 of 35

. NO LAND DISTURBING ACTIVITY SHALL OCCUR UNTIL A GRADING PERMIT HAS BEEN ISSUED FROM THE CITY OF GRANT AND REVIEW FROM THE WATERSHED.

2. BEST MANAGEMENT PRACTICES (BMP'S) REFER TO EROSION AND SEDIMENT CONTROL PRACTICES DEFINED IN THE MPCA PROTECTING WATER QUALITY IN URBAN AREAS AND THE MINNESOTA CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PLANNING HANDBOOK.

ALL BMP'S SELECTED SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND MATTER DURATION OF USE.

5. A COPY OF THESE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

6. THE BOUNDARIES OF THE LAND DISTURBANCE LIMITS SHOWN ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. NO DISTURBANCE BEYOND THE DISTURBED LIMITS.

7. WHEREVER POSSIBLE, PRESERVE THE EXISTING TREES, GRASS AND OTHER VEGETATIVE COVER TO HELP FILTER RUNOFF.

9. ALL TREES NOT LISTED FOR REMOVAL SHALL BE PROTECTED. DO NOT OPERATE EQUIPMENT WITHIN THE DRIPLINE, ROOT ZONES OR WITHIN TREE PROTECTION FENCE AREAS.

10. ALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) SHALL BE INSTALLED AND IN OPERATION PRIOR TO LAND DISTURBANCE ACTIVITIES AND THEY SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR EROSION HAS PASSED.

12. THE BMP'S SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE PERMITTEE/CONTRACTOR SHALL ANTICIPATE THAT MORE BMP'S WILL BE NECESSARY TO ENSURE EROSION AND SEDIMENT CONTROL ON THE SITE DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY CONSTRUCTION ACTIVITIES AND/OR CUMATIC EVENTS AND TO PROVIDE ADDITIONAL BMP'S OVER AND ABOVE THE MINIMUM REQUIREMENTS SHOWN ON THE PLANS, AS MAY BE NEEDED TO PROVIDE EFFECTIVE PROTECTION OF WATER AND SOIL RESOURCES.

13. THE BMP'S SHALL BE INSPECTED DAILY BY THE PERMITTEE/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. SILT FENCES CLEANED OR REPLACED AT SEDIMENT BUILDUP OF 1/2 OF THE FENCE HEIGHT.

14. LAND DISTURBING ACTIVITIES SHALL OCCUR IN INCREMENTS OF WORKABLE SIZE SUCH THAT ADEQUATE BMP CONTROL CAN BE PROVIDED THROUGHOUT ALL PHASES OF CONSTRUCTION. THE SMALLEST PRACTICAL AREA SHALL BE EXPOSED OR OTHERWISE DISTURBED AT ANY ONE TIME.

16. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED FROM EROSION WITHIN14 DAYS OF SUBSTANTIAL COMPLETION OF GRADING IN THAT AREA. TEMPORARY SEED AND MULCH SHALL COVER ALL EXPOSED SOILS IF GRADING COMPLETION IS DELAYED LONGER THAN 7 DAYS. PERMANENT SEED AND MULCH OR SOO IS REQUIRED WITHIN 3 DAYS OF COMPLETION OF FINAL GRADING.

17. GENERAL TEMPORARY SEED SHALL BE MNDOT MIX 190 0 100 LBS. PER ACRE OR APPROVED EQUAL MULCH SHALL BE MNDOT TYPE 1 (CLEAN OAT STRAW) 0 2 TONS PER ACRE AND DISK ANCHORED IN PLACE OR APPROVED EQUAL. FERTILIZES SHALL BE 80−80-80 NPK PER ACRE (UNLESS P RESTRICTIONS APPLY) AND INCORPORATED INTO THE SEED BED.

19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

20. AN ALTERNATE EROSION & SEDIMENT CONTROL PLAN SHALL BE REQUIRED FOR LAND DISTURBANCES ON EACH LOT AS PART OF ANY FUTURE BUILDING PERMIT FOR THE CONSTRUCTION OF STRUCTURES AND DRIVEWAYS.

21, ALL SLOPES THAT ARE 3H:1V SHOULD BE COVERED WITH AN EROSION CONTROL BLANKET.

HOME BUILDING NOTES:

- SEDIMENT BARRIERS SHOWN WILL BE INSTALLED AS NEEDED ON A LOT BY LOT BASIS DEPENDING UPON SITE ACTIVITY.
- ANTI-TRACKING CONTROL WILL BE INSTALLED AS NEEDED ON A LOT BY LOT BASIS DEPENDING UPON SITE ACTIVITY.
- CONCRETE WASHOUT IS DONE TRUCK BY TRUCK WITH A MOBILE WASHOUT SYSTEM PROVIDED AND CONTROLLED BY THE CONCRETE CONTRACTOR.

EROSION CONTROL SCHEDULE:

1. PRIOR TO ANY CONSTRUCTION OR DEMOLITION, SILT FENCE AND FILTERS SHALL BE INSTALLED AS SHOWN TO INTERCEPT RUNOFF.

2. ALL EROSION CONTROL INSTALLATIONS SHALL REMAIN IN PLACE AND BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR UNTIL THE SITE HAS BEEN RE-VEGETATED. CONTRACTOR MAY REMOVE NECESSARY SILT FENCING/FILTERS TO CONSTRUCT ROADWAYS, WHILE MAINTAINING ADEQUATE EROSION CONTROL IN ADJACENT AREA.

4. THE CONTRACTOR SHALL SCHEDULE SITE GRADING, UTILITY INSTALLATION AND PAVEMENT CONSTRUCTION SO THAT THE GENERAL SITE CAN BE MULCHED AND RE—SEEDED SOON AFTER DISTURBANCE. AREAS THAT WILL NOT BE SUBJECT TO CONSTRUCTION TRAFFIC SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF BEING DISTURBED.

CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES AS INDICATED ON THIS EROSION CONTROL PLAN AND ANY ADDITIONAL REQUIRED BASED ON MEANS, METHODS AND SEQUENCES OF CONSTRUCTION.

SEDIMENT CONTROL PRACTICES:

1. SEDIMENT CONTROL PRACTICES MUST MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS, NCLUDING CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS.

SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERMITERS
BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE PRACTICES SHALL REMAIN
IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

3. THE TIMING OF THE INSTALLATION OF SEDIMENT CONTROL PRACTICES MAY BE ADJUSTED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, ANY SHORT-TERM ACTIVITY MUST BE COMPLETED AS QUICKLY AS POSSIBLE AND THE SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED. HOWEVER, SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE ACTIVITY IS NOT COMPLETE.

5. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCES OR OTHER EFFECTIVE SEDIMENT CONTROLS, AND CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORM WATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUTING AND DITCHES

6. SITE CONSTRUCTION ENTRANCES WILL BE AS SHOWN ON THE PLAN. ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT EACH ENTRANCE.

FINAL STABILIZATION:

THE CONTRACTOR MUST BUSINE FINAL STABILIZATION OF THE SITE. THE CONTRACTOR MUST SUBMIT A NOTICE OF TERMINATION (NOT) WITHIN 3D DAYS AFTER FINAL STABILIZATION IS COMPLETE, OR ANOTHER OWNER/OPERATOR (PERMITTEE) HAS ASSUMED CONTROL OF ALL AREAS OF THE SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION. FINAL STABILIZATION CAN BE ACHIEVED IN THE FOLLOWING WAY:

ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND ALL SOILS MUST BE STABILIZED BY A UNIFORM PERENNAL VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT OVER THE ENTIRE PERMOUS SURFACE AREA, OR OTHER EQUIVALENTMENN'S NECESSARY TO PREVENT SOIL FAILURE UNDER EROSIVE CONDITIONS AND;

A. ALL DRANAGE DITCHES, CONSTRUCTED TO DRAIN WATER FROM THE SITE AFTER CONSTRUCTION IS COMPLETE, MUST BE STABILIZED TO PERCLUDE EROSION;

B. ALL TEMPORARY SYNTHETIC, AND STRUCTURAL EROSION PREVENTION

- ALL TEMPORARY SYNTHETIC, AND STRUCTURAL EROSION PREVENTION
 AND SEDIMENT CONTROL BMPS (SUCH AS SILT FENCE) MUST BE REMOVED AS
 PART OF THE SITE FINAL STABILIZATION; AND
 THE CONTRACTORS MUST CLEAN OUT ALL SEDIMENT FROM CONVEYANCES AND
 FROM TEMPORARY SEDIMENTATION BASINS THAT ARE TO BE USED AS
 PERMANENT WAIER QUALITY MANAGEMENT BASINS. SEDIMENT MUST BE
 STABILIZED TO PREVENT I FROM BEIND WASHED BACK INTO THE BASIN,
 CONVEYANCES OR DRAINAGE WAYS DISCHARDING OFF—SITE OR TO SURFACE
 WATERS. THE CLEAN OUT OF PERMANENTBASINS MUST BE SUFFICIENT TO
 RETURN THE BASIN TO DESIGN CAPACITY.

EROSION AND SEDIMENT CONTROL MAINTENANCE PROGRAM:

INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. IMMEDIATELY REPAIR FAILED OR FAILING SILT FENCE.

REPLACEMENT — FABRIC SHALL BE REPLACED PROMPTLY WHEN IT DECOMPOSES OR BECOMES INEFFECTIVE BEFORE THE BARRIER IS NO LONGER NECESSARY.

3. SEDIMENT REMOVAL — SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE—THEN THE HEIGHT OF THE BARRIER. ANY SEDIMENT REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER FABRIC IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH EXISTING GRADE, PREPARED, AND SEEDED WITH THE APPROPRIATE SEED MIK, OR SODDED AS DIRECTED BY THE ENGINEER.

5. THE CONTRACTOR MUST ROUTINELY INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

6. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:

- A. DATE AND TIME OF INSPECTIONS;
 B. MAME OF PERSON(S) CONDUCTING INSPECTIONS;
 C. FIDDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
 D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVIES.
 E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN ½ INCH (0.5 INCHES) IN 24 HOURS!

- F. DOCUMENTS OF CHANGES MADE TO THE SWPPP AS REQUIRED IN PART III.A.4.

7. WHERE PARTS OF THE CONSTRUCTION SITE HAVE UNDERGONE FINAL STABILIZATION, BUT WORK REMAINS ON OTHER PARTS OF SITE, INSPECTIONS OF THE STABILIZED AREAS MAY BE REDUCED TO ONCE PER MONTH. WHERE WORK HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE REQUIRED INSPECTIONS AND MAINTENANCE MUST TAKE PLACE AS SOON AS RUMOFF OCCURS AT THE SITE OR PRIOR TO RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.

POLLUTION PREVENTION MANAGEMENT MEASURES:

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES ON THE SITE:

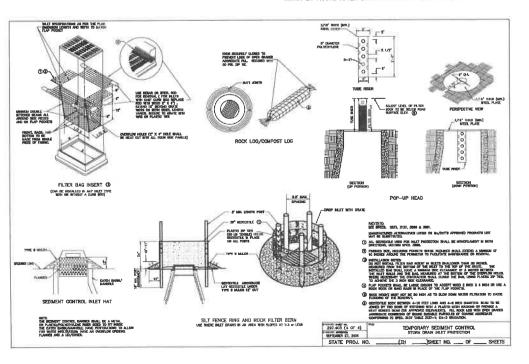
SOLID WASTE: COLLECTED SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.

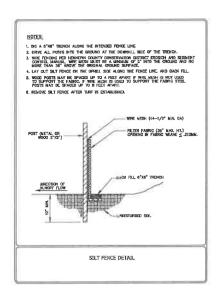
2. HAZARDOUS MATERIAL: OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTININENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE, RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE, AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPILIANCE WITH

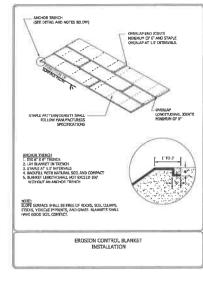
3. CONCRETE WASHOUT IS DONE TRUCK BY TRUCK WITH A MOBILE WASHOUT SYSTEM PROVIDED AND COMPLETED BY THE CONCRETE CONTRACTOR. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF.

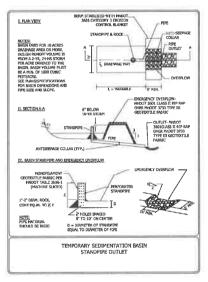
4. NO ENGINE DEGREASING IS ALLOWED ON SITE.

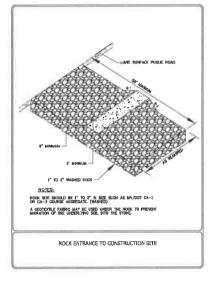
5. STREET SWEEPING IS REQUIRED A MINIMUM OF 1 \times PER WEEK OR AS DIRECTED BY CITY ENGINEER. ALL SEDIMENT TRACKING SHOULD BE SWEPT WITHIN 24 HOURS AFTER DISCOVERY. MPCA PERMIT REQUIREMENT.

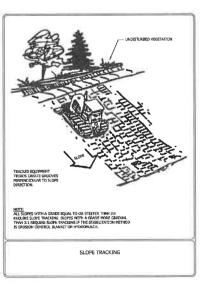


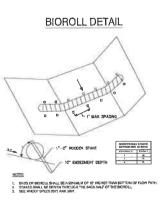














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8255 75TH STREET N
GRANT, MINNESOTA
CONSTRUCTION E

GATEWAY

hereby certify that this plan, specification, or report was prepared by me or under m direct supervision and that ! arrac supervision and that t arm a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA Mal Rul

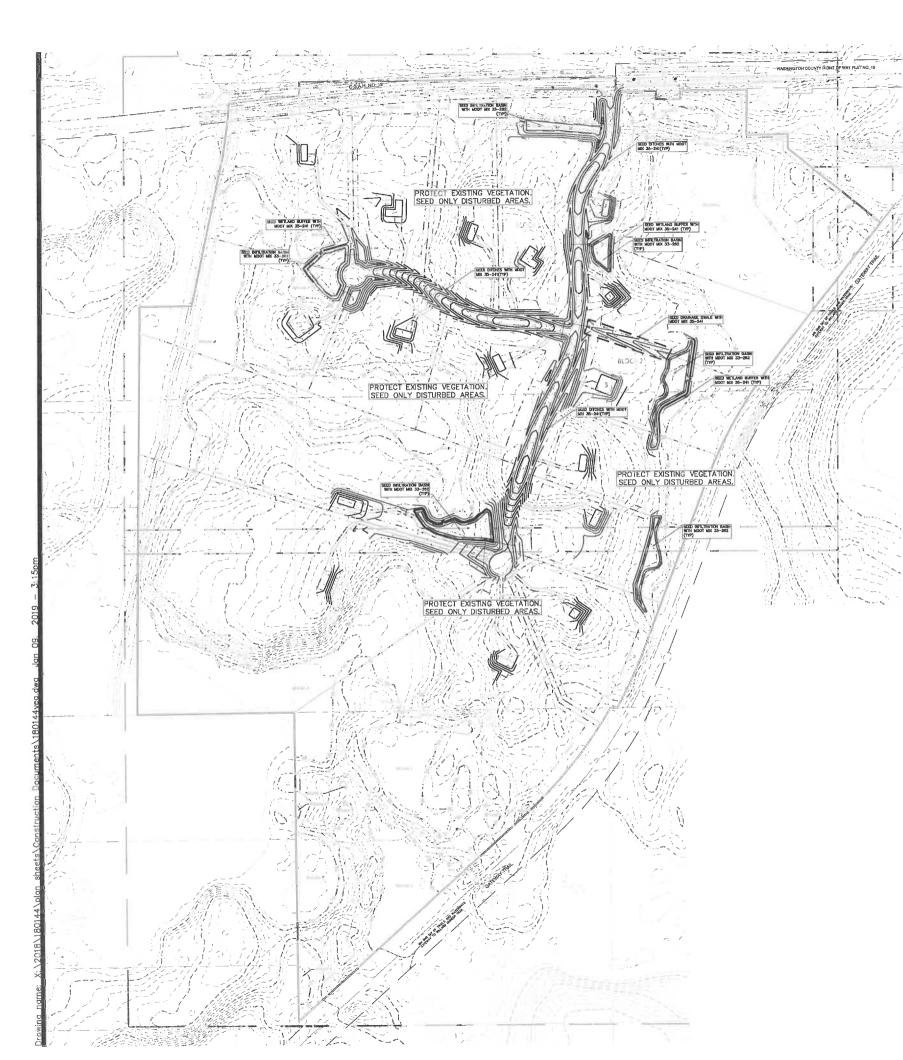
MARK RAUSCH, PE 1-10-19

QUALITY ASSURANCE/CONTROL

DATE ISSUE 10-11-18 CITY SUBMITTAL 10-18-18 WATERSHED SUBMITTAL 12-7-18 BID PACKAGE 1-10-19 CONSTRUCTION DOCUMENT

PROJECT TEAM DATA DESIGNED: PROJECT NO: 218-0144

25



LEGEND:

EXISTING CONTOUR PROPOSED CONTOUR - PROPERTY LINE --- - SETBACK LINE LOT LINE

CONSTRUCTION SEQUENCING NOTES:

PRIOR TO LAND DISTURBANCE:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.

2. PREPARE TEMPORARY PARKING AND STORAGE AREA

3. INSTALL ALL PRE-GRADING SILT FENCE. ALL WETLANDS NEAR PROPOSED INFILTRATION BASINS TO BE PROTECTED WITH DOUBLE ROW SILT FENCE. PROVIDE TREE PROTECTION SILT FENCE AS NECESSARY.

DURING CONSTRUCTION:

1. TO THE EXTENT POSSIBLE GRADING SHALL BE PHASED TO MINIMIZE THE AMOUNT OF DISTURBED AREAS DURING

MINIMIZE THE AMOUNT OF DISTURBED AREAS DURING
CONSTRUCTION.
STOCKPILE TOPSOIL AND OTHER EXCAVATED MATERIALS AT
LEAST 50 FEET FROM ALL WETLAND BUFFERS. STOCKPILE MUST
BE SURROUNDED BY SILT FENCE.
COMPLETE MASS GRADING AND INSTALL TEMPORARY AND

PERMANENT SEEDING AND PLANTINGS PER VEGETATION PLAN

(THIS SHEET).
REFER TO INFILTRATION NOTES ON SPECIFIC CONSTRUCTION SEQUENCING.

SEQUENCING.

5. STORM SEWER/CULVERTS SHALL BE INSTALLED DURING GRADING CONSTRUCTION TO FACILITATE DRAINAGE ROUTES. INSTALL RIP RAP OUTFALLS AS SHOW ON THE PLAN IMMEDIATELY AFTER BASIN CONSTRUCTION.

BABIN CONSTRUCTION.

6. INSTALL POST GRADING SILT FENCE AROUND INFILTRATION AREAS AND PROVIDE DITCH CHECKS PER THE DETAIL.

7. PREPARE THE SITE FOR PAVING.

8. PAVE SITE.

POST CONSTRUCTION:

1. REMOVE ALL TEMPORARY EROSION—CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION AS DETERMINED BY THE INSPECTOR AND/OR VBWD ENGINEER.

SOIL PREPARATION:

1. PREPARE THE AREAS TO BE ESTABLISHED WITH TURF PER MNDOT 2575. TOPSOIL SHALL BE RE—SPREAD TO A MINIMUM DEPTH OF 6 INCHES ON AREAS TO BE ESTABLISHED WITH TURF.

2. ALL AREAS SHALL BE FERTILIZED WITH TYPE 2 FERTILIZER 10—10—10 AT A RATE OF 200 LB PER ACRE.

TURE ESTABLISHMENT:

1. TURE ESTABLISHMENT SHALL BE PER MNDOT 2575 EXCEPT AS MODIFIED BELOW AND SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER GRADING CONSTRUCTION. RAPID STABILIZATION METHODS TYPE 1 AND TYPE 4 SHALL APPLY TO ALL DISTURBED AREAS.

2. ALL AREAS THAT DO NOT REQUIRE EROSION CONTROL BLANKET SHALL BE SEEDED AND MULCHED (DISK

ANCHORED) WITH TYPE OF 2 TONS PER ACRES.

3. EROSION CONTROL BLANKET SHALL BE PLACED WITHIN 24 HOURS AFTER SEEDING. INSTALL EROSION CONTROL BLANKET PER MNDOT 2575 AT LOCATIONS SHOWN ON THE PLAN.

SEED MIXES:

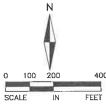
GENERAL AREAS — MNDOT 35-241 OR APPROVED EQUAL INFILTRATION AREAS — MNDOT 33-262 OR APPROVED EQUAL WETLAND BUFFERS — MNDOT 35-241 OR APPROVED EQUAL

MAINTENANCE:

MAINTAIN SEEDED AREAS BY WATERING, REMULCHING AND REPLANTING AS NECESSARY TO ESTABLISH A UNIFORMLY DENSE STAND OF THE SPECIFIED GRASSES UNTIL ACCEPTED. ANY AREAS FAILING TO ESTABLISH A STAND SHALL BE RESEEDED, REFERTILIZED AND REMULCHED WHENEVER 70% VEGETATIVE COVER IS NOT ACHIEVED. RESEEDING SHALL CONFORM IN ALL RESPECTS TO THESE SPECIFICATIONS. T CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE WORK AREAS RESULTING FROM EROSION AND/OR EQUIPMENT. THE CONTRACTOR SHALL REPAIR DAMAGE, INCLUDING REGRADING, RESEEDING, ETC. AS NECESSARY, BEFORE SIGNIFICANT DAMAGE OCCURS.

REFER TO MN STATE SEED MIX MANUAL.

SEE EROSION CONTROL PLAN FOR **EROSION CONTROL BMP PLAN**





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> 8255 75TH STREET N
> GRANT, MINNESOTA
> CONSTRUCTION DOCUMENTS 75TH STREET, MINNESOTA

뿚 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

Mal Rul MARK RAUSCH, PE

GATEWAY

1-10-19 QUALITY ASSURANCE/CONTRO

DATE ISSUE 10-11-18 CITY SUBMITTAL 12-7-18 BID PACKAGE

DRAWN:

218-0144

26 or 35

LEGEND:

EXISTING CONTOUR

788 — PROPOSED CONTOUR

RETAINING WALL

PROPOSED CATCH BASINS

PROPOSED STORM SEWER

PROPOSED EASEMENT

PROPERTY LINE

SETBACK LINE

LOT LINE

RIGHT—OF—WAY

WETLAND

STORM SEWER LOCATION



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OVERALL STREET AND STORM SEWER PLAN

THE GATEWAY

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MARK RAUSCH, PE

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BY DATE ISSUE
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10-18-18 WATERSHED SUBMITTAL
12-7-18 BID PACKAGE

PROJECT TEAM DATA
DESIGNED: MPI
DRAWN: AKA

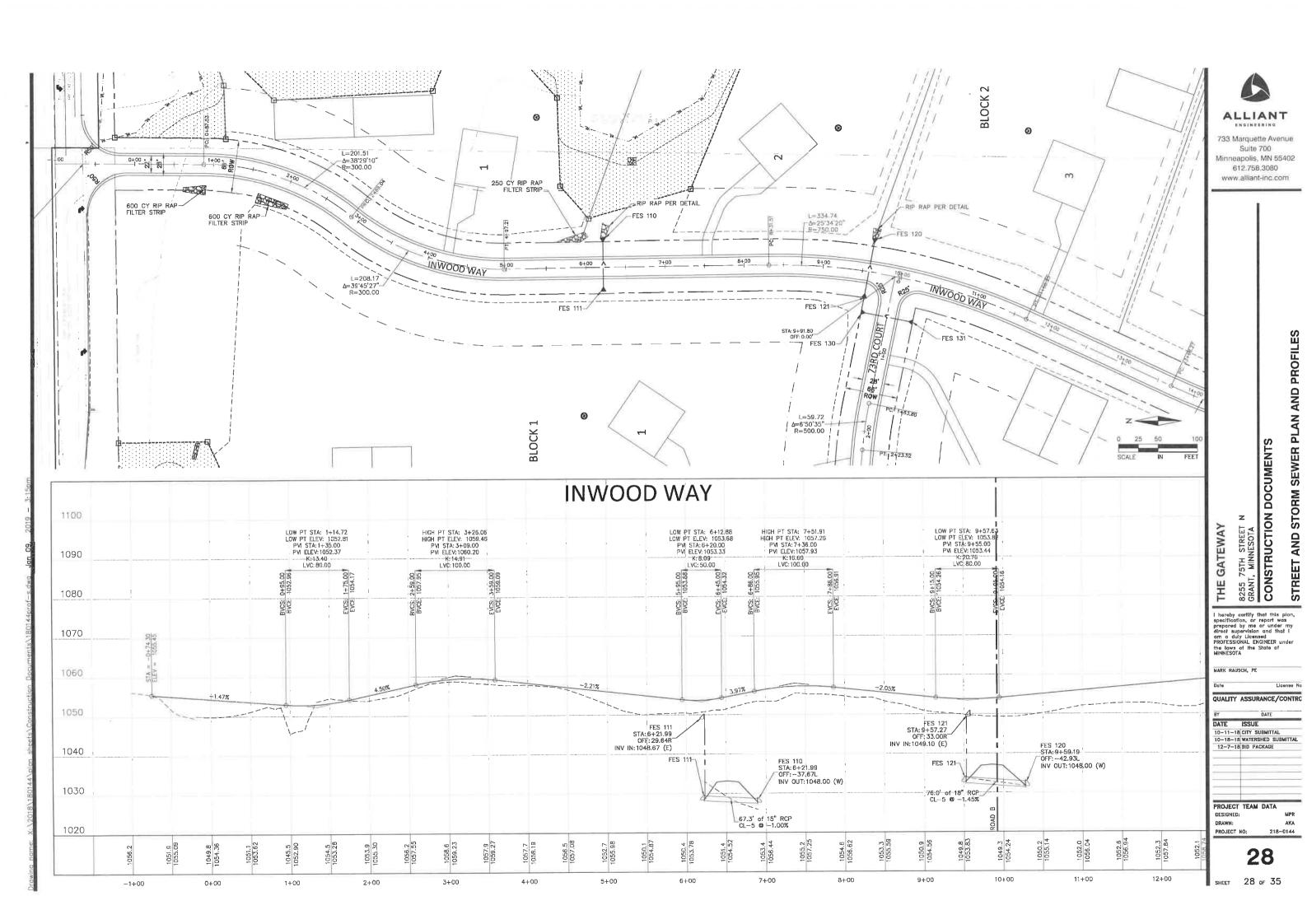
DESIGNED:

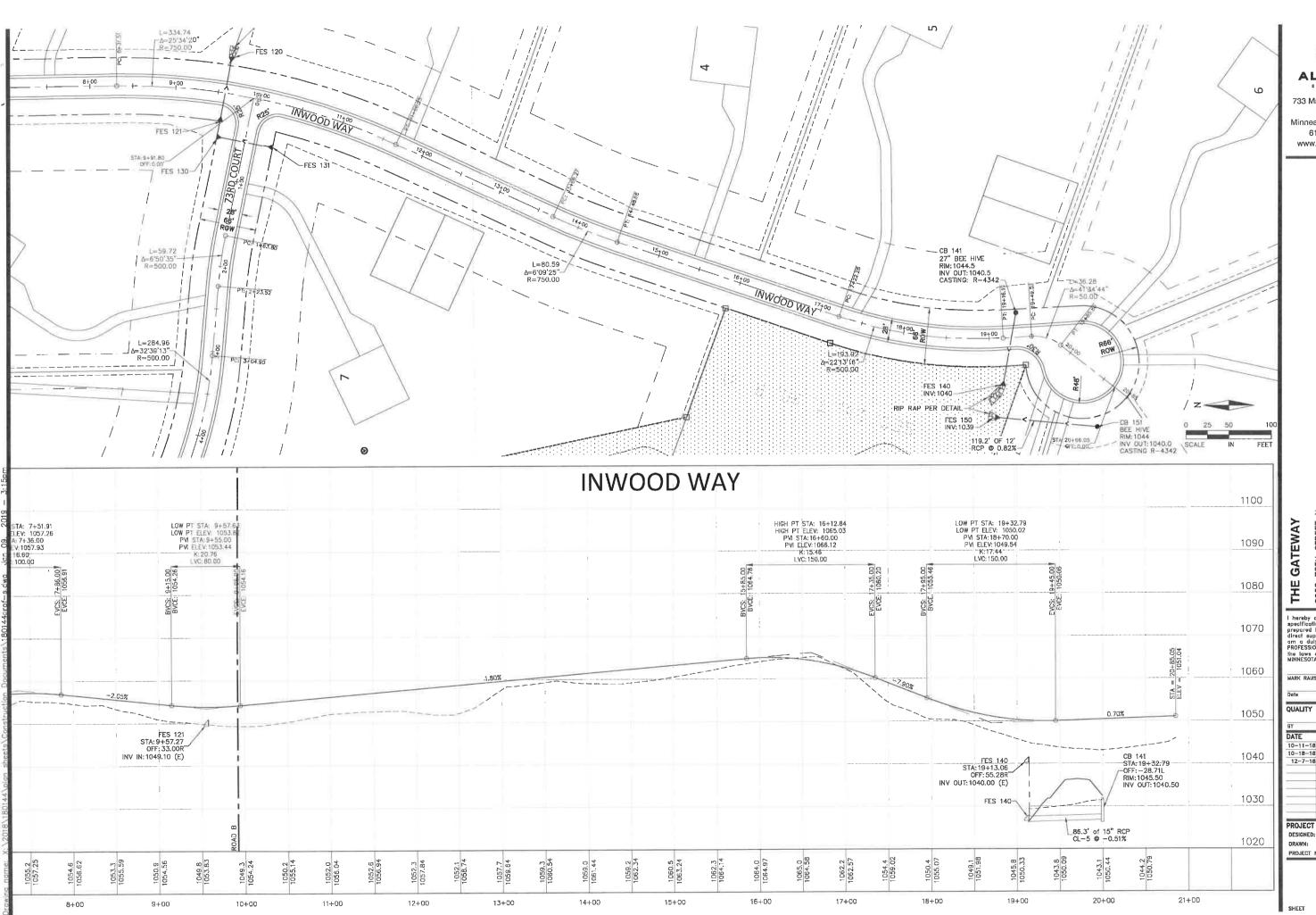
DRAWN:

PROJECT NO: 218-0

27

SHEET 27 OF 35





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STREET AND STORM SEWER PLAN AND PROFILES CONSTRUCTION DOCUMENTS

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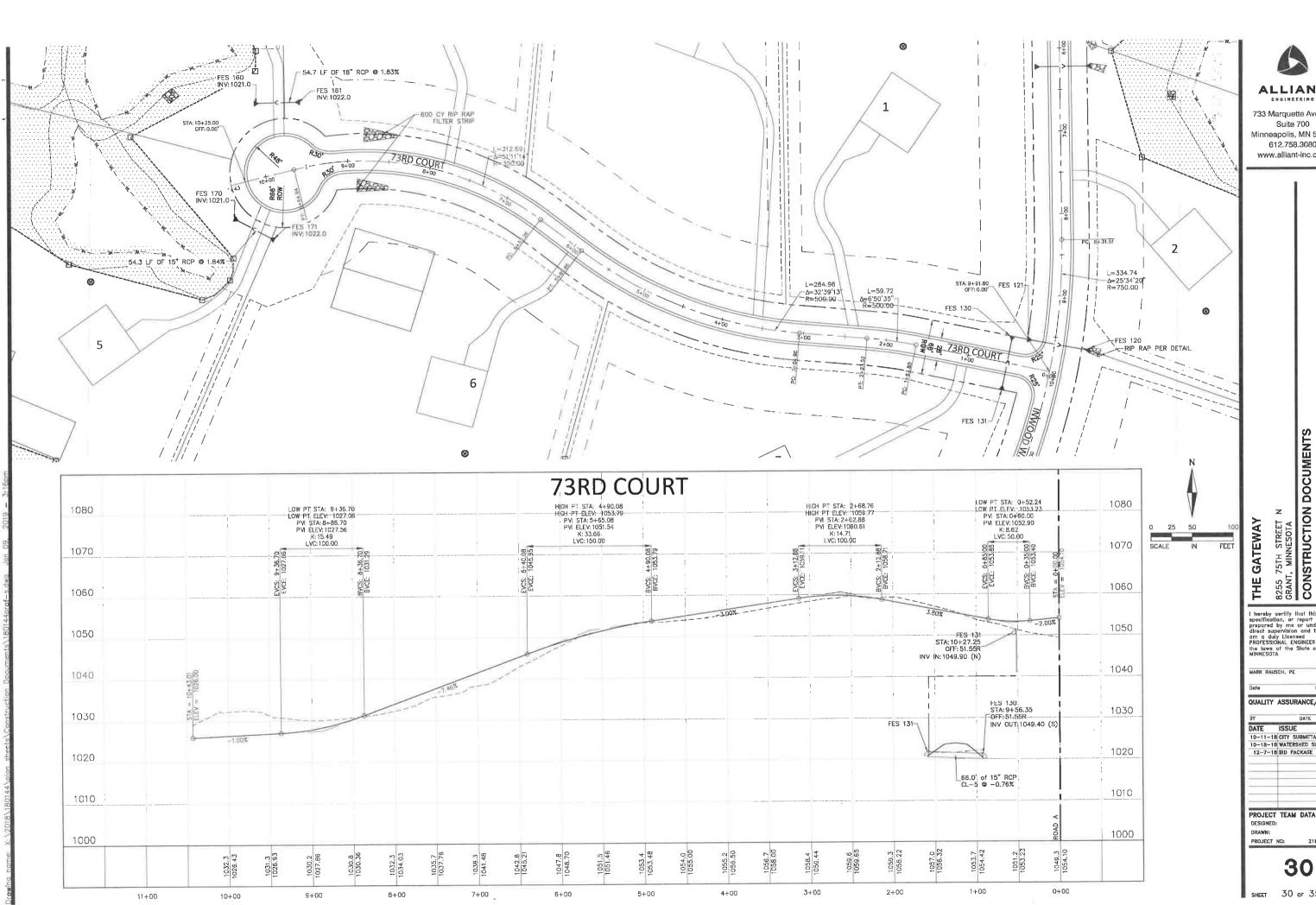
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PROJECT TEAM DATA

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STREET AND STORM SEWER PLAN AND PROFILES

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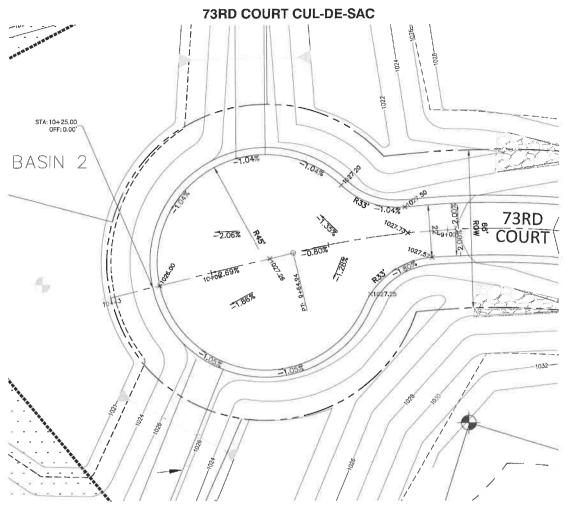
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10-18-18 WATERSHED SUBMITTAL
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218-0144

30

30 of 35





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STREET INTERSECTION DETAILS 8255 75TH STREET N
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THE GATEWAY

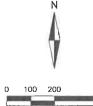
1-10-19 Date

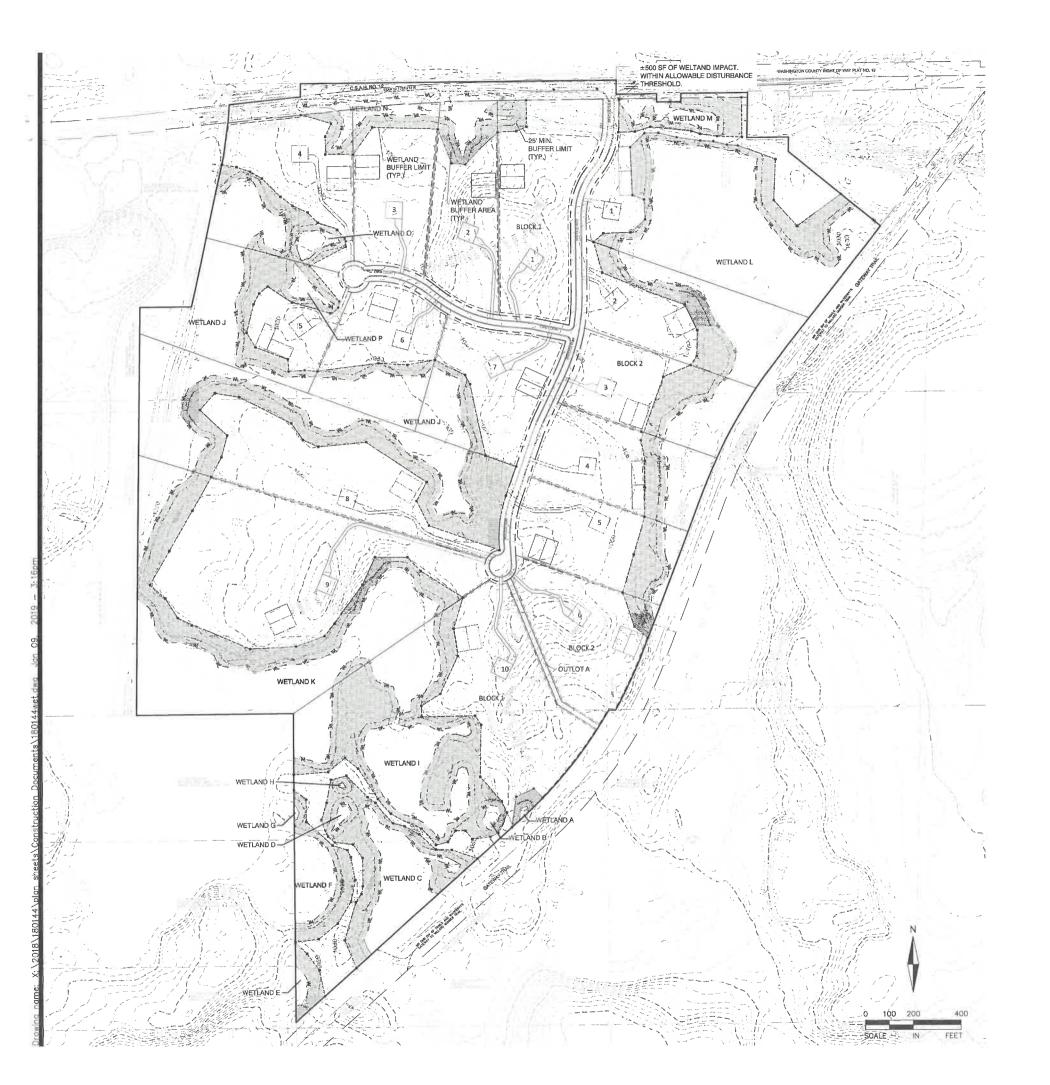
QUALITY ASSURANCE/CONTROL DATE ISSUE

PROJECT TEAM DATA DESIGNED: DRAWN:

31

SHEET 31 OF 35





WETLAND SUMMARY

WETLAND	TYPE	VBWD CLASS.	AREA*
A	TYPE 1	B-MANAGE 1	1,191 SF (0.273 AC)
В	TYPE 1	B-MANAGE 1	5,144 SF (0.118 AC)
C	TYPE 3	B-MANAGE 1	95,810 SF (2.199 AC)
D	TYPE 1	B-MANAGE 1	4,178 SF (0.959 AC)
E	TYPE 2	B-MANAGE 1	6,779 SF (0.156 AC)
F	TYPE 3	8-MANAGE 1	51,899 SF (1.191 AC)
G	TYPE 1	B-MANAGE 1	884 SF (0.020 AC)
Н	TYPE 1	B-MANAGE 1	445 SF (0.010 AC)
ï	TYPE 2/3	B-MANAGE 1	112,806 SF (2.590 AC)
J	TYPE 6/2/3	B-MANAGE 1	578,533 SF (13.281 AC)
K	TYPE 6/7/2	B-MANAGE 1	395,851 SF (9.087 AC)
L	TYPE 6	B-MANAGE 1	629,414 SF (14.449 AC)
М	TYPE 2/6	C-MANAGE 2	27,111 SF (0.622 AC)
N	TYPE 2/6/7	C-MANAGE 2	46,932 SF (1.077 AC)
0	TYPE 2	C-MANAGE 2	12,901 SF (0.296 AC)
Ď	TYPE 2/3	C-MANACE 2	11 681 SE (D 268 AC)

TOTAL AREA 1,981,559 SF (45.490 AC)

 $\boldsymbol{*}$ AREA OF WETLAND LIMITS WITHIN DEVELOPMENT SITE BOUNDARIES AND EXCLUDING EXISTING AND PROPOSED RIGHT OF WAY AREAS.

WETLAND BUFFER CALCULATION

WETLAND BUFFERS AND SETBACK REQUIREMENTS:

THE VALLEY BRANCH WATERSHED DISTRICT BUFFER REQUIREMENTS PER WETLAND CLASSIFICATION. THE BUFFER REQUIREMENTS ARE AS FOLLOWS:

		5 44444.65 44	0 144111.05 0
	A-PRESERVE*	B-MANAGE 1*	C-MANAGE 2
REQUIREMENT	CLASS,	CLASS.	CLASS.
MIN. BUFFER	= 25'	= 25'	= 25"
MAX. BUFFER	= 200°	= 150°	= 100*
DIFFED AVC	- 100	- 75'	- 50

*NOTE: BUFFER MONUMENTS ARE REQUIRED TO MARK THE BUFFER EDGES AT A MINIMUM AROUND PRESERVE AND MANAGE 1 WETLAND BUFFERS. VBWD TO APPROVE ALL LOCATIONS PRIOR TO INSTALLATION.

REFER TO SHEET 33 FOR DETAILED DEPICTION OF WETLAND BUFFERS PER INDIVIDUAL WETLAND.

WETLAND IMPACTS:

WETLAND	TYPE	VBWD CLASS.	IMPACT AREA
м	TYPE 2/6	C-MANAGE 2	*±500 SF

* UNDER THE DE MINIMIS THRESHOLD AND DOES NOT TRIGGER REPLACEMENT OR BANKING

LEGEND:

	EASEMENT LINE
	SETBACK LINE
	PROPERTY LINE
	LOT LINE
	RIGHT-OF-WAY
w	WETLAND DELINEATION
	WETLAND BUFFER LIMIT
•	POTENTIAL WETLAND BUFFER MONUMENT (VBWD APPROVAL REQ
	WETLAND BUFFER STRIP



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SHEET 32 OF 35



WETLAND BUFFER CALCULATION (PER WETLAND)

			1	
WETLAND	FRONTAGE*	BUFFER_AREA*	MIN. BUFFER WIDTH	PROPOSED AVG. WIDTH
A	111 LF	8,356 SF	25'	75.3'
В	292 LF	22,002 SF	25'	75.3'
С	1,152LF	87,362 SF	25'	75.8
D	322 LF	25,522 SF	25'	79.3*
E	133 LF	10,398 SF	25'	78.2
F	579 LF	43,900 SF	25'	75,B ⁴
G	83 LF	6,288 SF	25'	75,8'
Н	86 LF	6,753 SF	25'	78.5'
1	1,456 LF	115,551 SF	25'	79.4'
J	5,308 LF	399,479 SF	25'	75.3'
к	3,364 LF	252,857 SF	25'	75.2'
L	4,067 LF	305,474 SF	25'	75.1'
М	705 LF	40,100 SF	25'	56.9'
N	1,352 LF	72,153 SF	25'	53.4'
0	505 LF	27,521 SF	25'	54.5'
P	603 LF	38,541 SF	25'	63.9'

* NOTE: LINEAR FRONTAGE AND BUFFER AREA NOT CALCULATED ALONG SIDES FACING PUBLIC ROW (C.S.A.H. NO. 12) OR SITE BOUNDARIES OR WHERE AVERAGE BUFFER WIDTHS CANNOT NOT BE PROVIDED DUE TO LIMITS TO PROPERTY CONTROLS OUTSIDE OF DEVELOPMENT BOUNDARY.

LEGEND:	
	EASEMENT LINE
	SETBACK LINE
	PROPERTY LINE
	LOT LINE
	RIGHT-OF-WAY
$-\cdots - w\llcorner - \cdots - w\llcorner -$	WETLAND DELINEATION
	WETLAND BUFFER
•	POTENTIAL WETLAND BUFFER MON
	WETLAND BUFFER STRIP
	WETLAND BUFFER STRIP (EXCLUDED FROM BUFFER AVERAGING CALCULATION)



50 100

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> WETLAND MANAGEMENT PLAN CONSTRUCTION DOCUMENTS

THE GATEWAY

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THRU LANE 12'

BIT. SHOULDER

SHOULDER

SHOULDER

EX. AGG. SHOULDER

EX. RIGHT-TURN LANE

EX. THRU LANE

TYPICAL LEFT TURN LANE SECTION

LEFT-TURN LANE

SIGN SCHEDULE

1.5" TYPE SP 2360 NON-WEARING COURSE MIX (SPNWB330C OR SPNWB230C)

(INSET B) SHOULDER PAVE

(SPINESSEC OF SPINESSEC)

8" AGGREGATE BASE CL-5 OR CL-7 MNDOT

SPEC 3138 AZ (100% CRUSHED)

12" SELECT GRANULAR BORROW MNDOT SPEC 3733.2

1.5" TYPE SP 2380 WEARING COURSE IM (SPIRADAGO OR SPIEA240C) ENTUMINOUS TACK COAT SP2357
1.5" TYPE SP 2380 NON-WEARING COURSE MIX (SPINADAGO OR SPINE2320F)
1" AGREGATE BASE CL-5 OR CL-7 MINDOT SPEC 3108 AC (1006 COURSET)
12" SELECT GRANULAR BORROW MINDOT SPEC 3733.2

PAVEMENT SECTIONS

	SIGN	SIGN NO.	SIZE	QUANTITY
A	ONLY ONLY ONLY	R3-8ACA	54" X 30" (BLACK ON WHITE)	2



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> TURN LANE REMOVALS & SITE PLAN CONSTRUCTION DOCUMENTS

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GATEWAY

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SHEET

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TURN LANE GRADING PLAN AND CROSS SECTIONS

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35

SHEET 35 OF 35