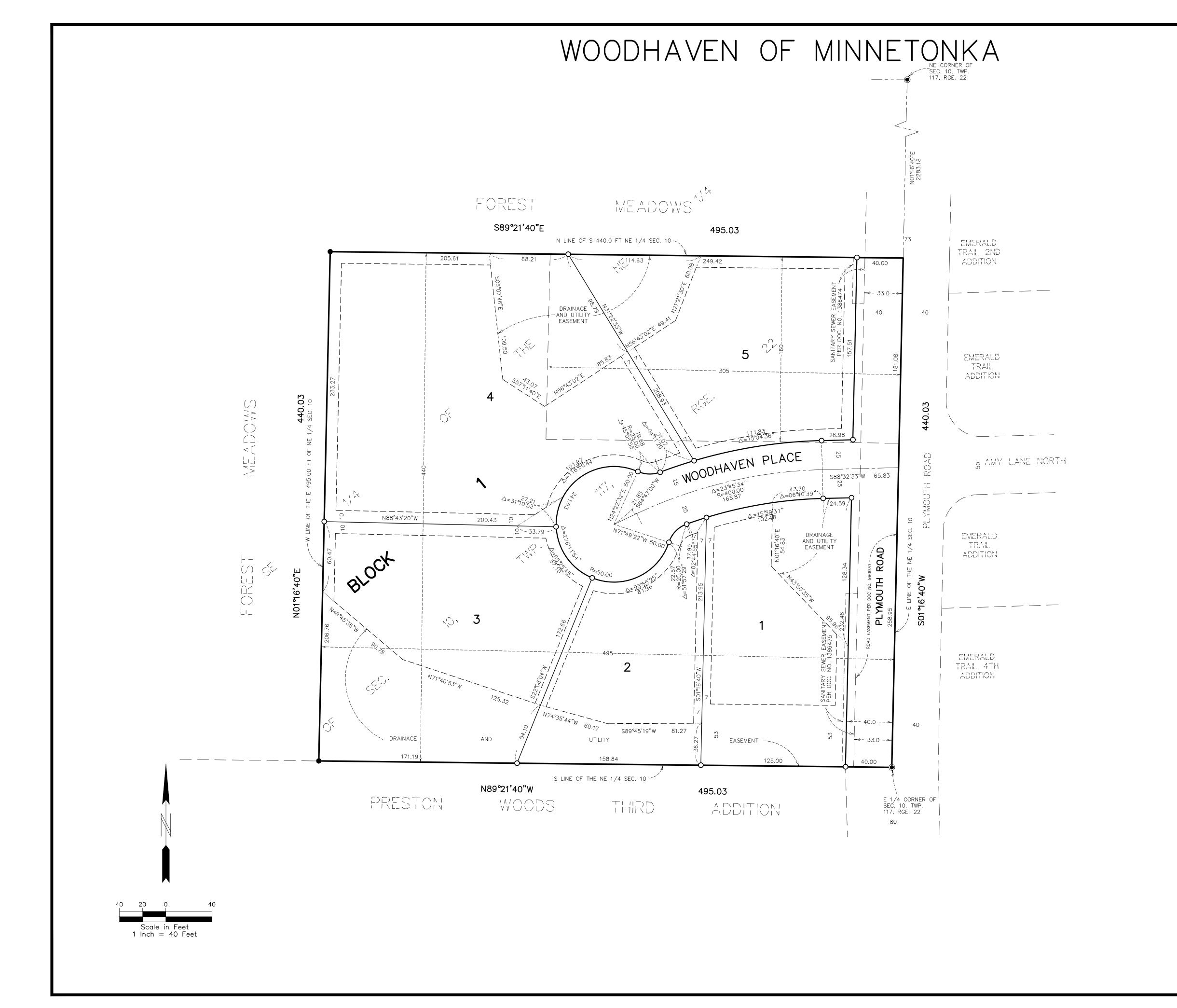


Location Map

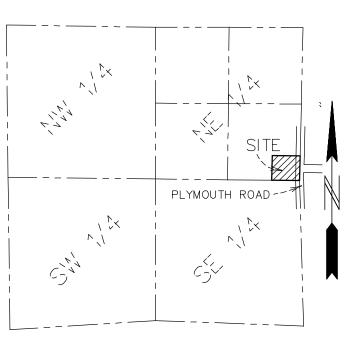
Project: Woodhaven at Minnetonka Address: 2424 & 2440 Plymouth Rd







R.T. DOC. NO. C.R. DOC. NO.



SECTION 10, TWP. 117, RGE. 22 HENNEPIN COUNTY, MINNESOTA LOCATION MAP NOT TO SCALE

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:

| Y | Rear Lot Line | y |
|---|---------------|----------------------|
| | 5->+ | 10 01 10 10 |
| | R-O-W | |

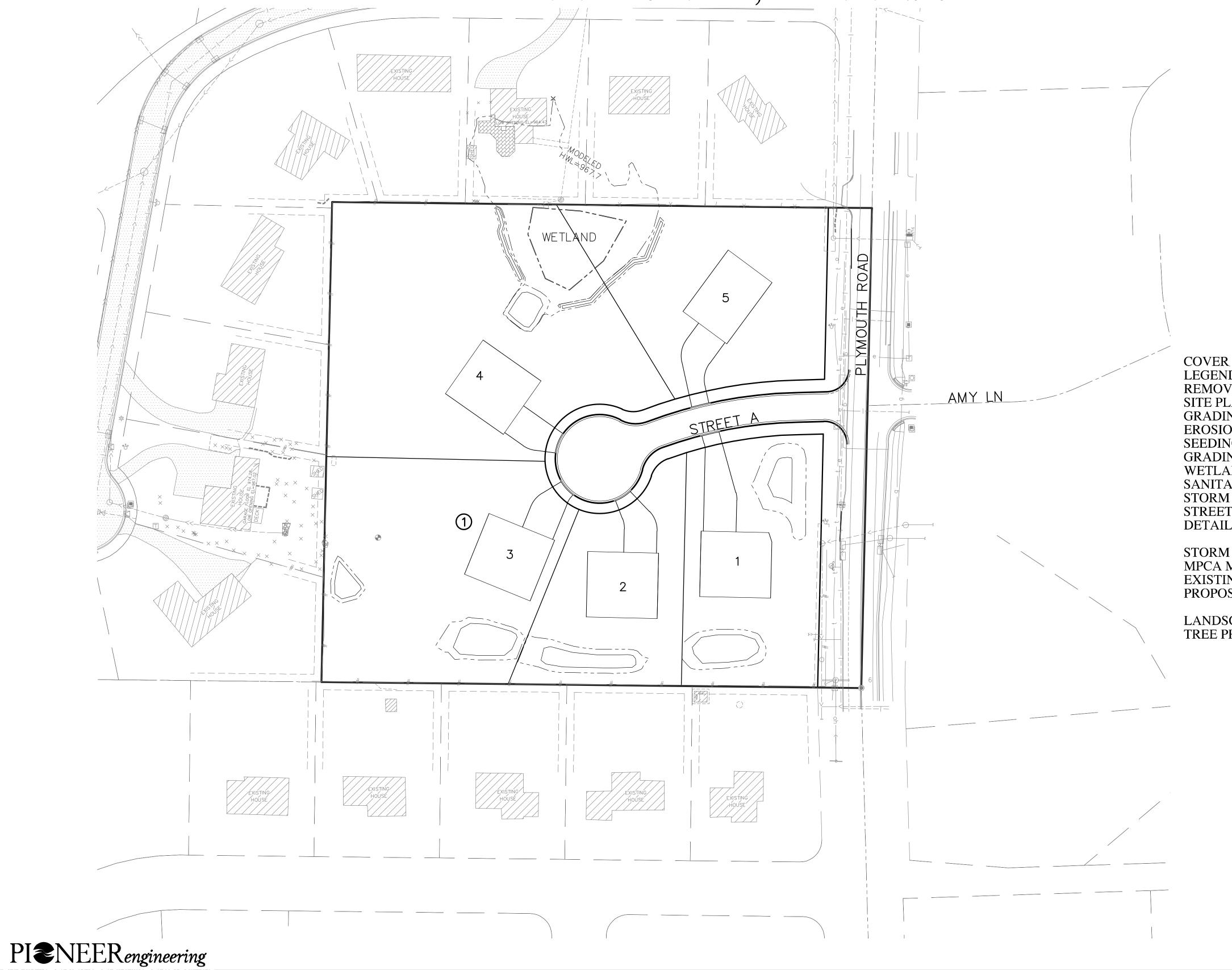
Being 5 feet in width, and adjoining lot lines unless otherwise indicated, and 10 feet in width and adjoining right of way and rear lot lines unless otherwise indicated on the plat.

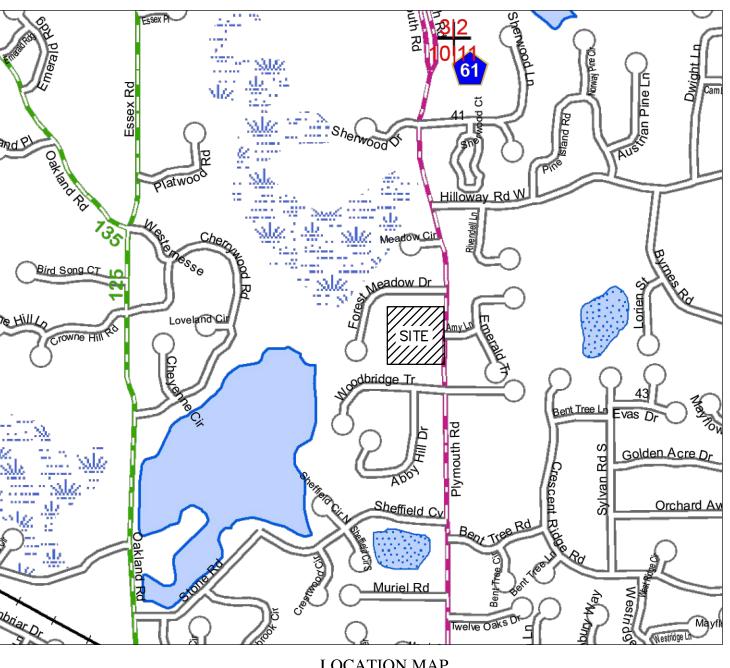
THE ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE SOUTH LINE OF THE NORTHEAST QUARTER OF SEC. 10 TWP. 117 RGE. 22, WHICH IS ASSUMED TO HAVE A BEARING OF NORTH 89°21'40" WEST.

- DENOTES FOUND CAST IRON MONUMENT
- DENOTES 1/2 INCH BY 14 INCH IRON PIPE MONUMENT SET AND MARKED BY LICENSE NUMBER
- DENOTES FOUND 1/2 INCH IRON MONUMENT MARKED BY LICENSE NUMBER 42299 UNLESS OTHERWISE NOTED.



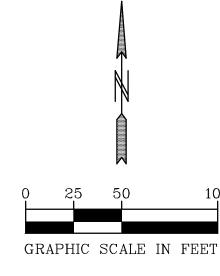
WOODHAVEN GRADING, UTILITY & STREET CONSTRUCTION PLAN MINNETONKA, MINNESOTA





SHEET INDEX

| COVER LEGEND REMOVAL PLAN SITE PLAN GRADING PLAN EROSION CONTROL PLAN SEEDING PLAN GRADING DETAILS WETLAND PLAN SANITARY SEWER & WATERMAIN PLAN STORM SEWER PLAN STREET CONSTRUCTION | 1.20 2.10 3.10 4.10 4.20 4.30 4.40-4 5.10 6.10 7.10 |
|--|--|
| DETAILS | |
| STORM WATER POLLUTION PREVENTION PLAN MPCA MAP EXISTING HYDROLOGY MAP PROPOSED HYDROLOGY MAP | S1-S2 S3 S4 |
| LANDSCAPE PLAN TREE PRESERVATION PLAN | |





Know what's below.

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01-ENG-123127-SHEET-COVR

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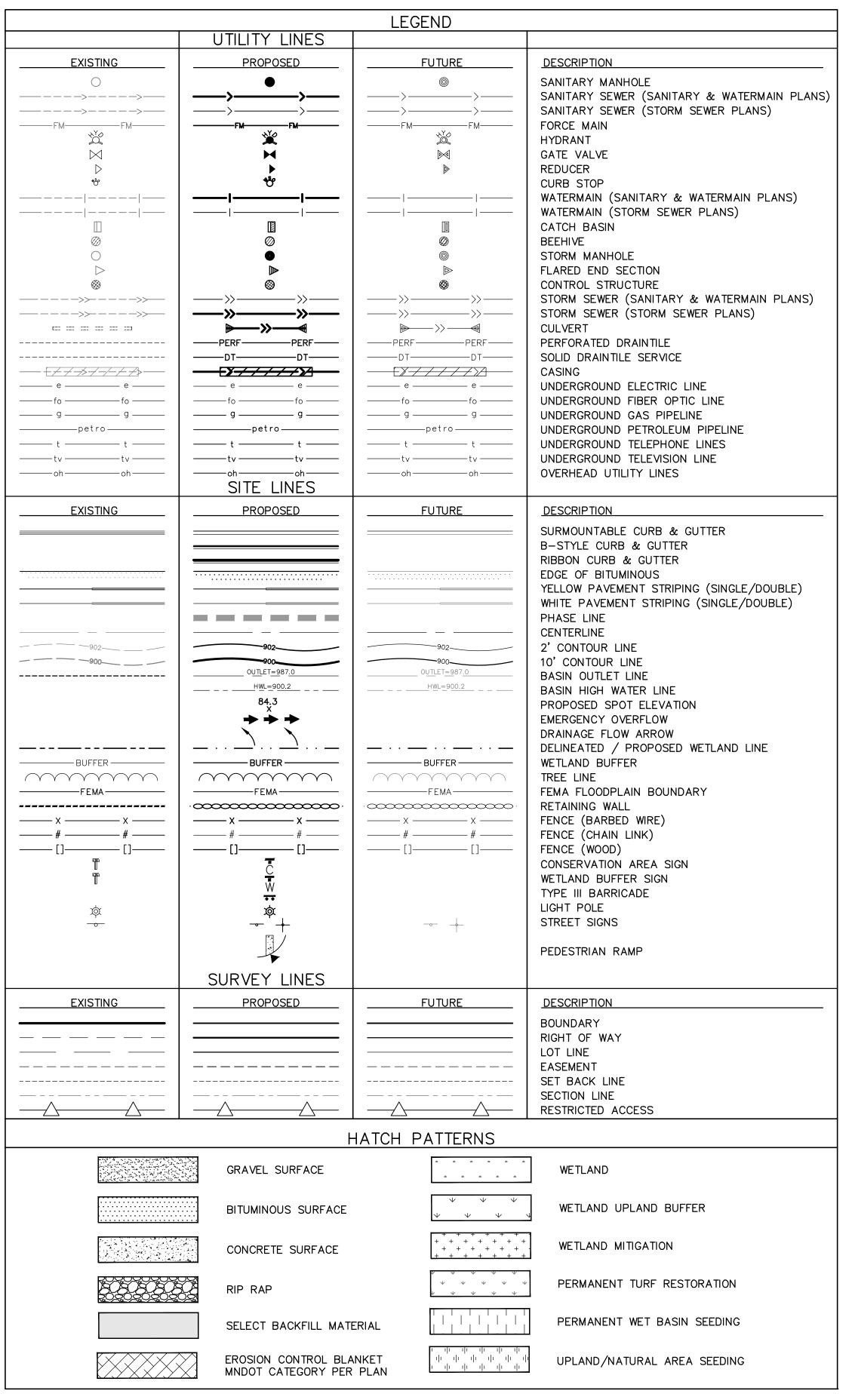
me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota Reg. No. 45831 Date 3-15-2024

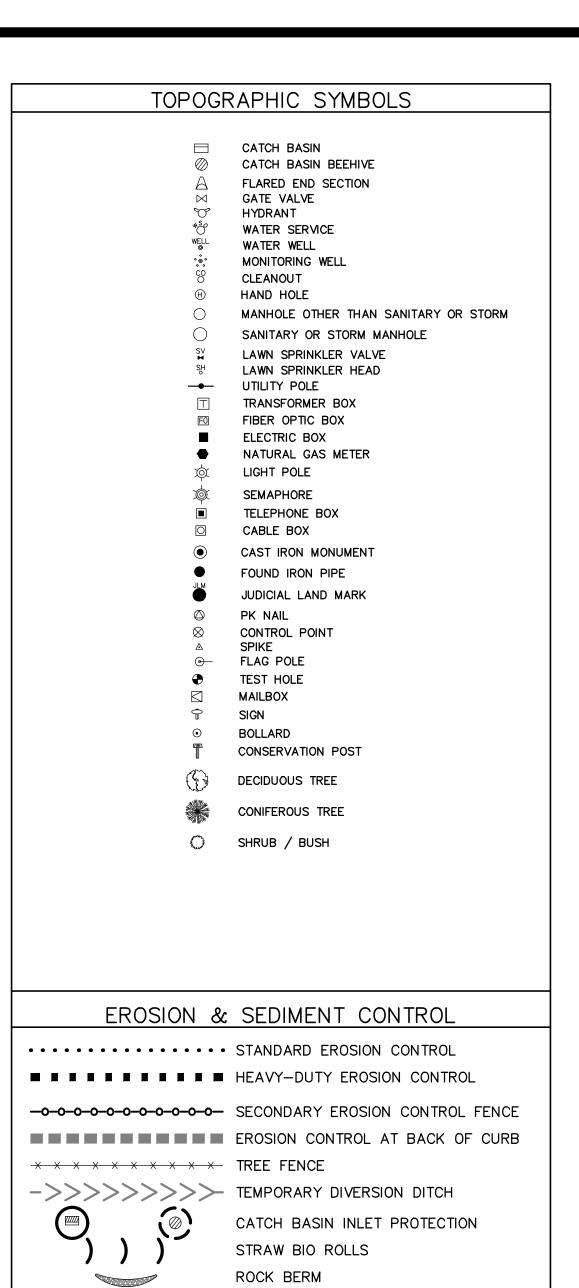
COVER

NORTON HOMES

18215 45TH AVENUE NORTH
PLYMOUTH, MINNESOTA 55446

WOODHAVEN MINNETONKA, MINNESOTA





SUMPED RIP RAP PERMANENT

GRAVEL CONSTRUCTION ENTRANCE

BASIN ACCESS 8% SLOPE MAX.

STEEP SLOPE 3:1 (H: V)

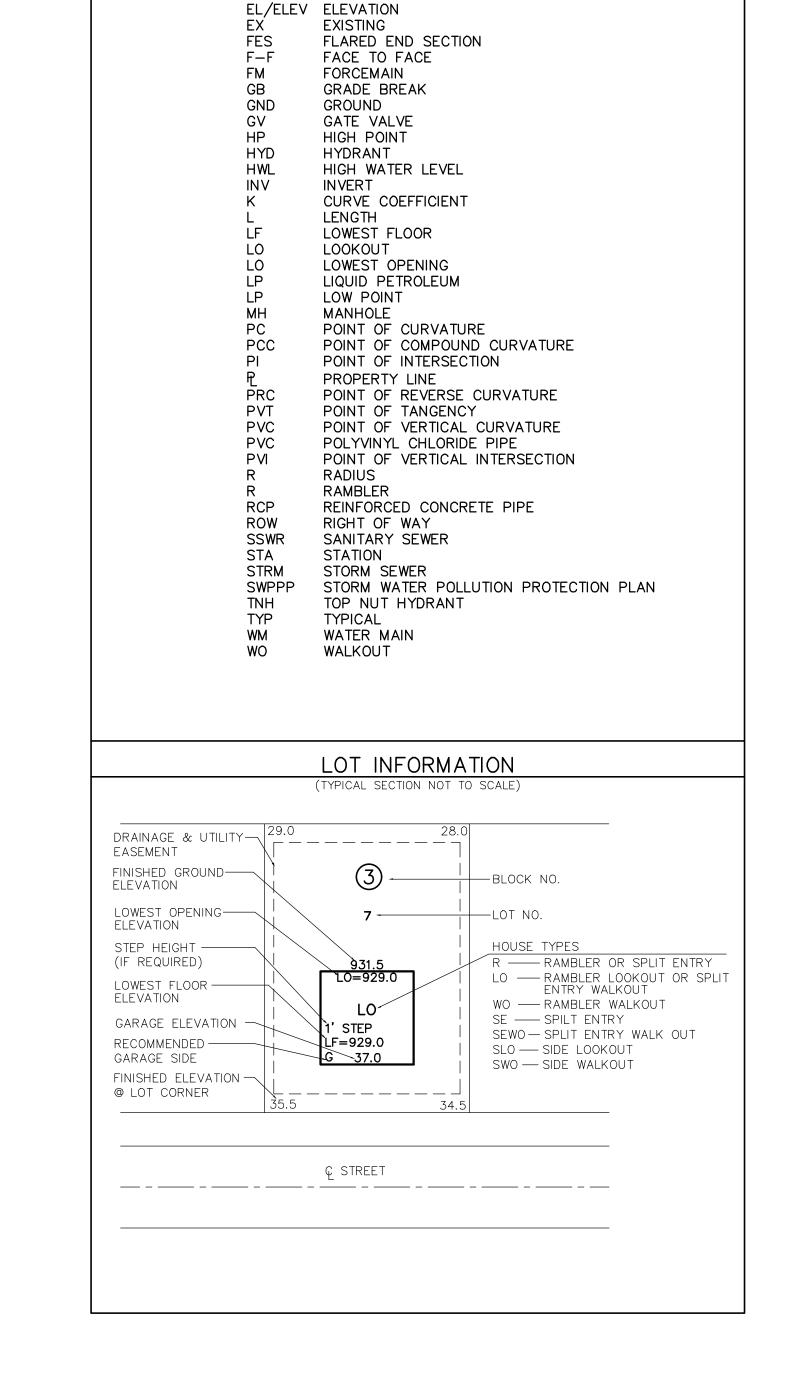
(33.3%) OR STEEPER GRADE

STABILIZED EMERGENCY OVERFLOW

TEMPORARY OUTLET FLOATING SKIMMER

ENERGY DISSIPATER

DISCHARGE LOCATION



ABBREVIATIONS

ALGEBRAIC DIFFERENCE

BASE FLOOD ELEVATION

CATCHBASIN MANHOLE

DUCTILE IRON PIPE

CORRUGATED METAL PIPE

BEST MANAGEMENT PRACTICE

BACK TO BACK

BACK OF CURB

CENTER LINE

CATCHBASIN

CLEAN OUT

CURB STOP

DRAINTILE

BUTTERFLY VALVE

B-B

ΒV

BOC

BFE

CB

СВМН

CMP

CO

CS

DIP

DT

PI NEER engineering

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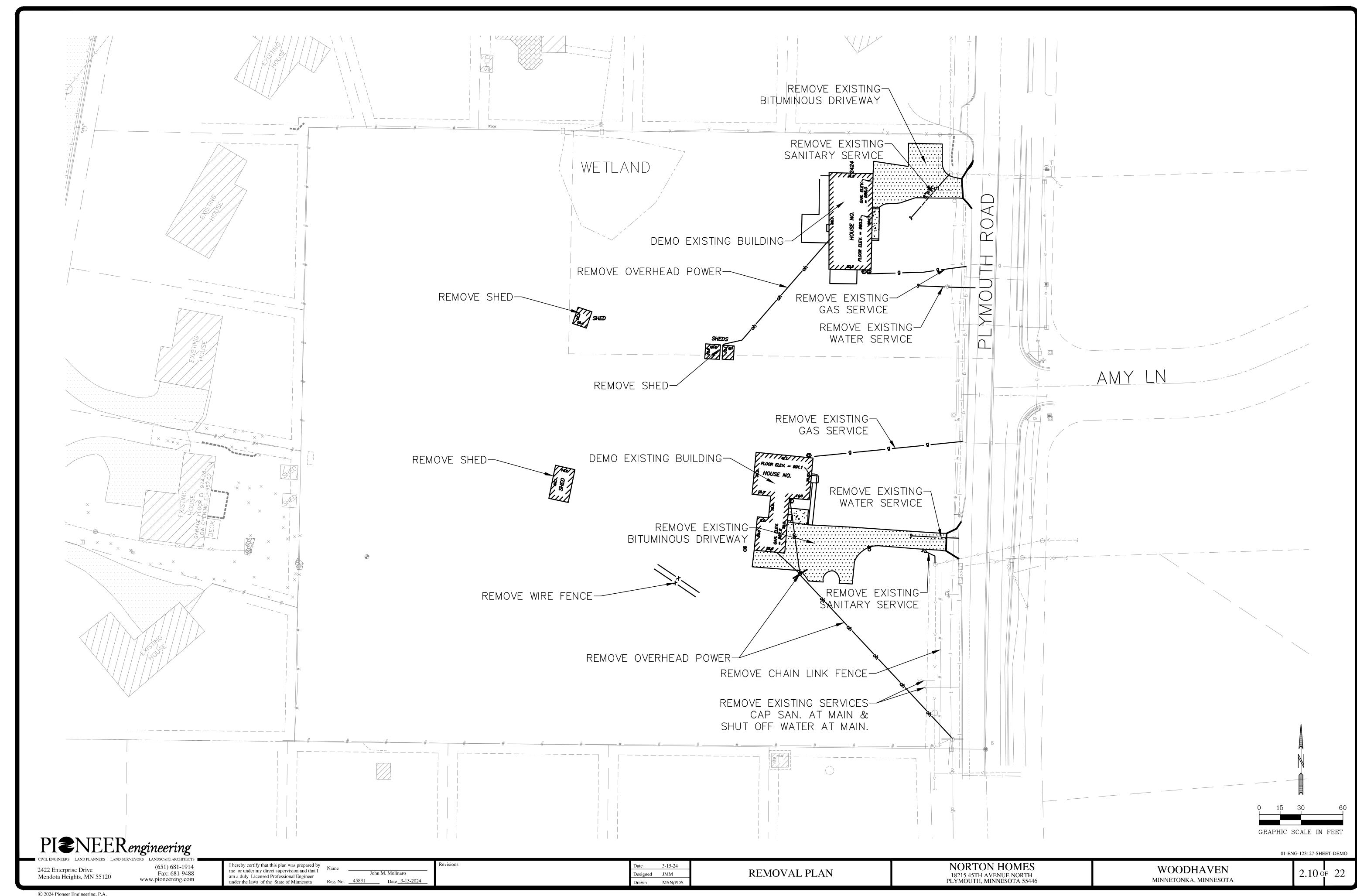
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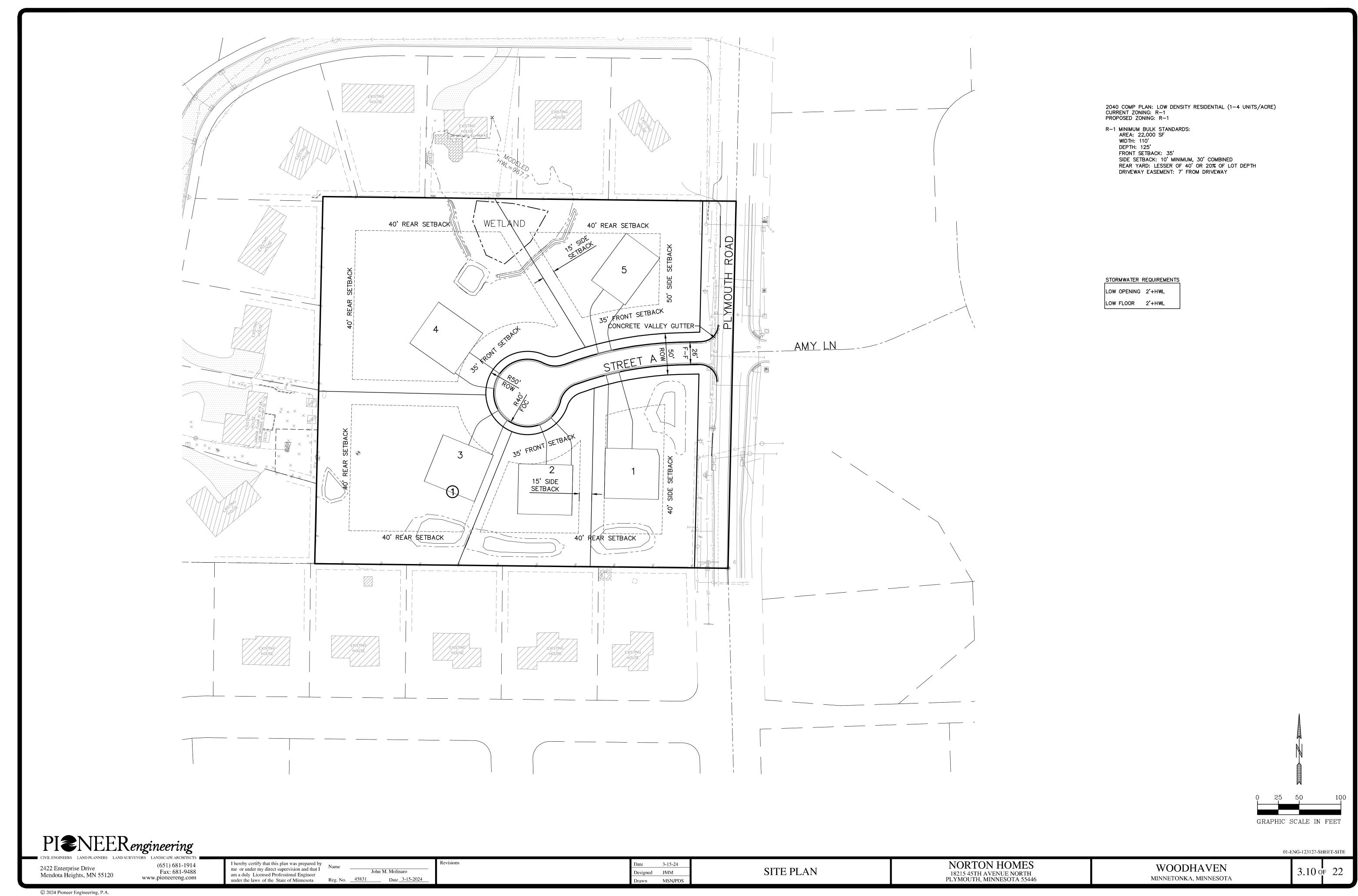
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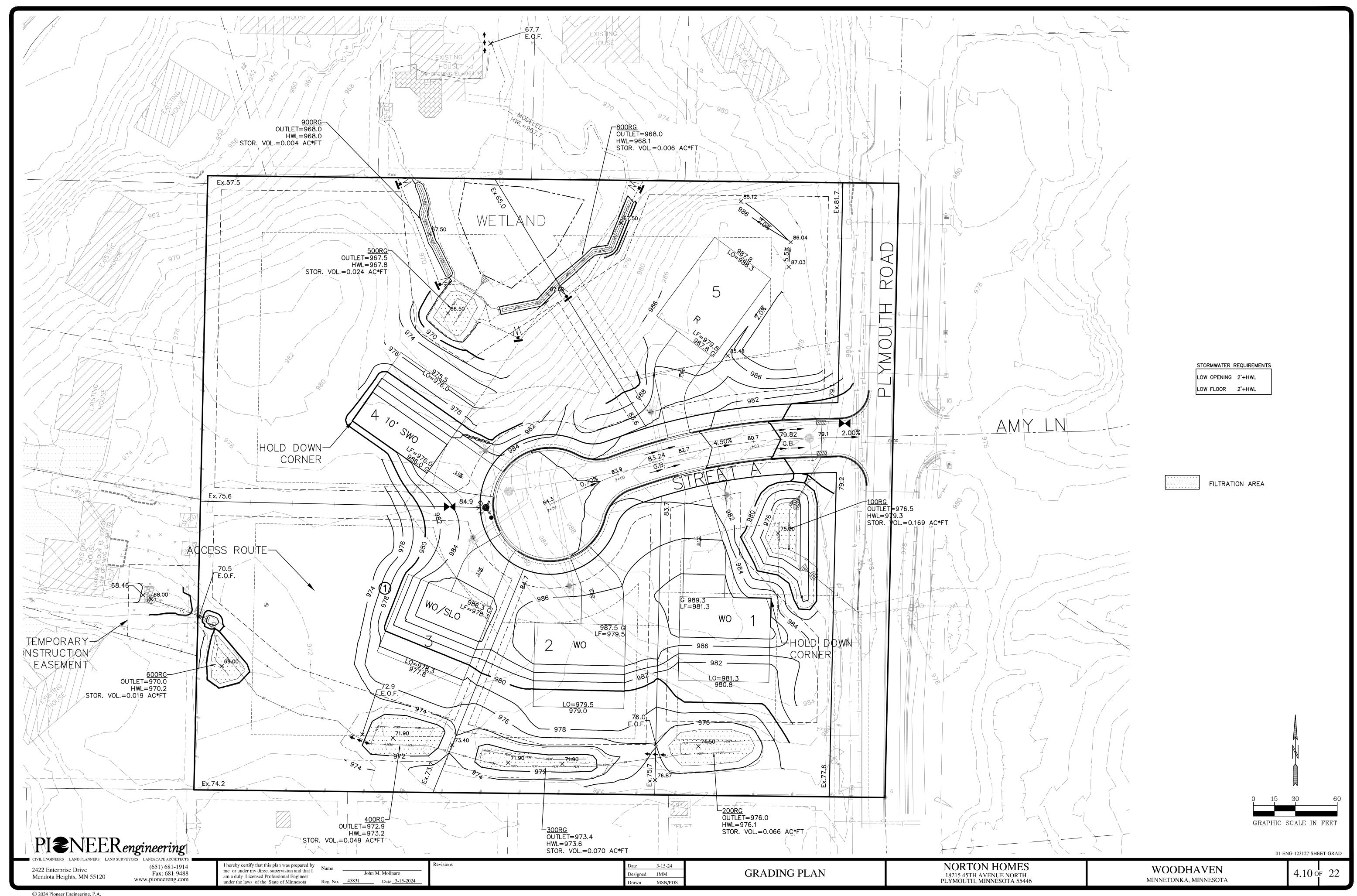
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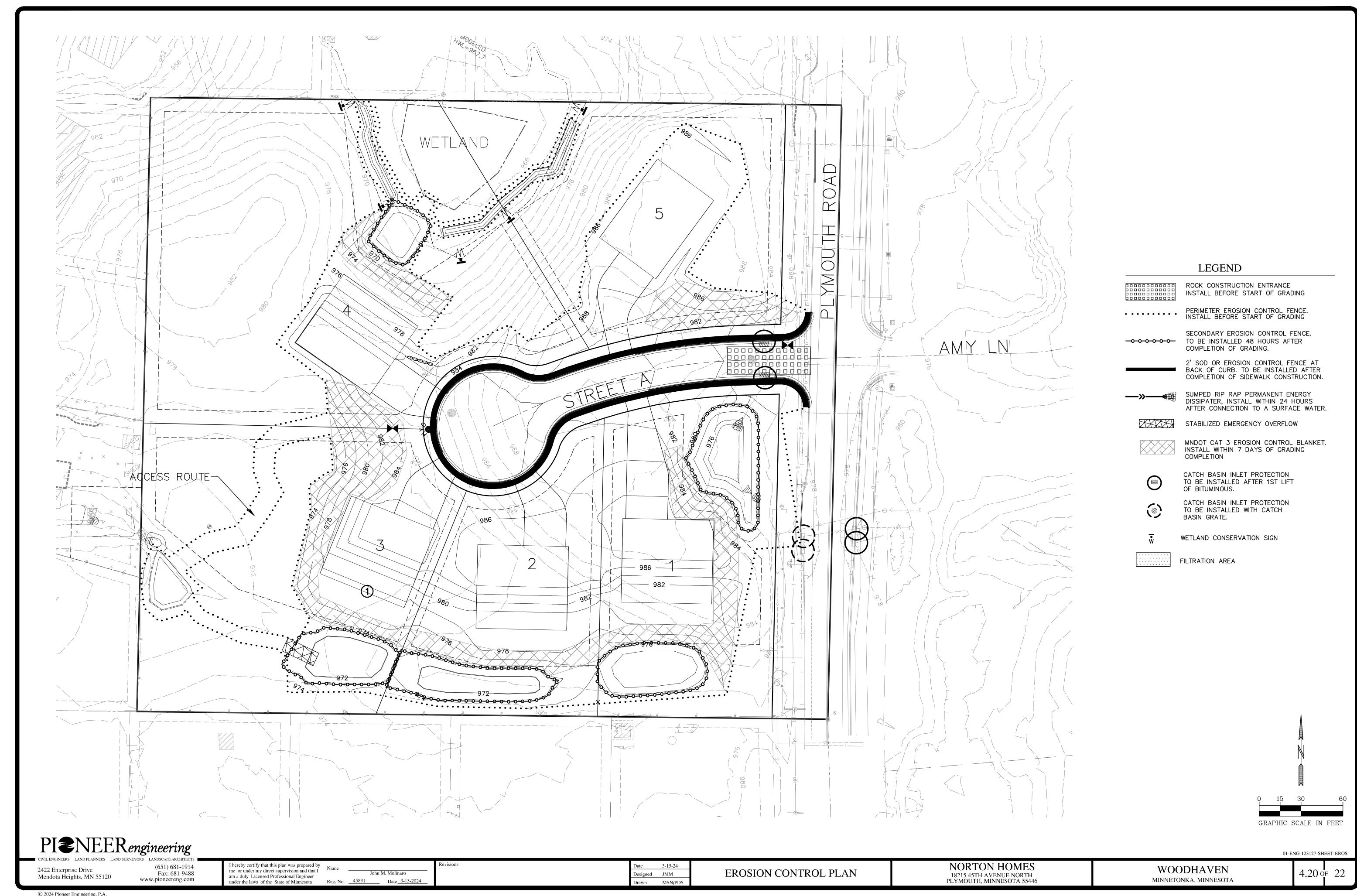
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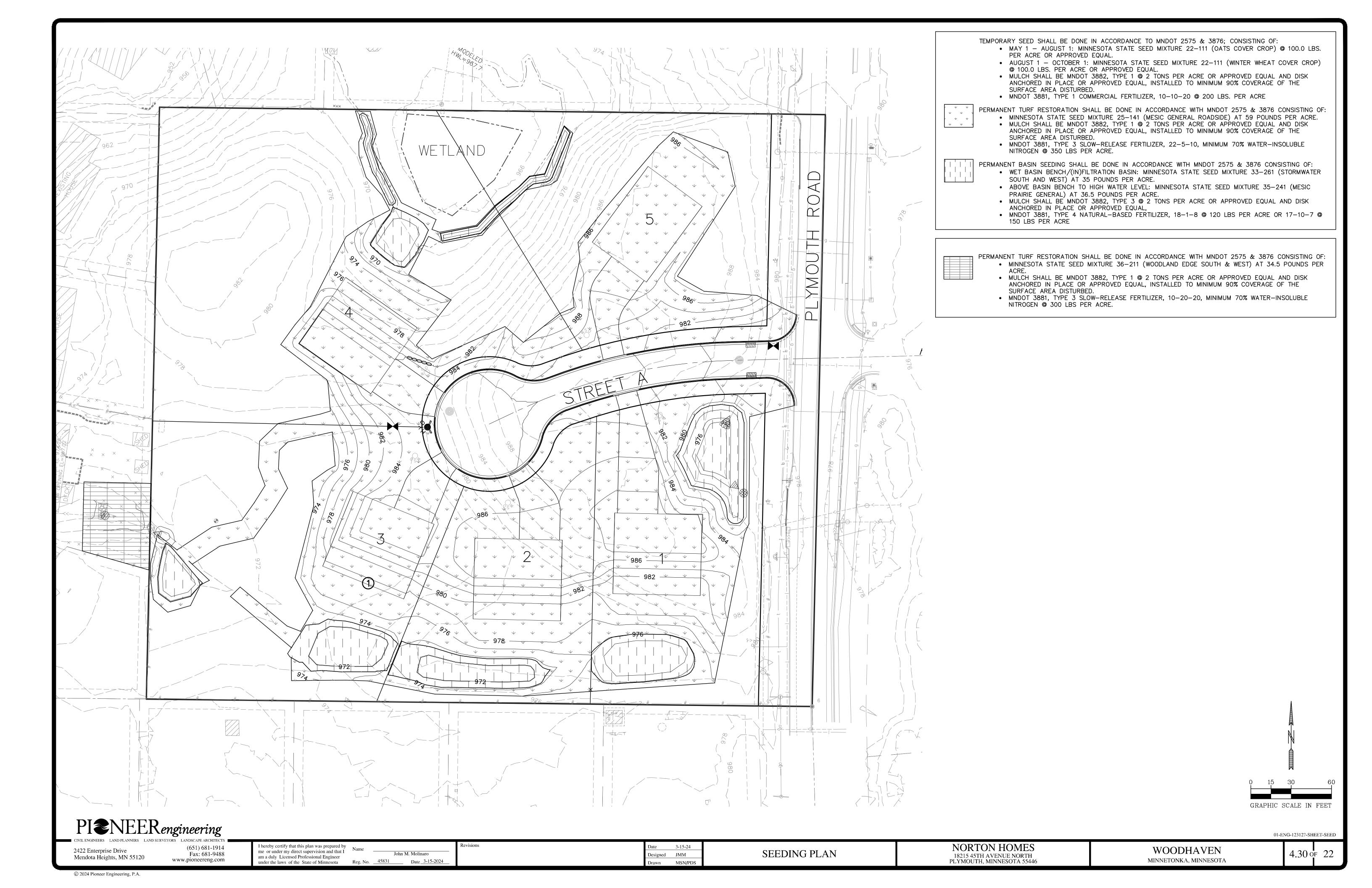
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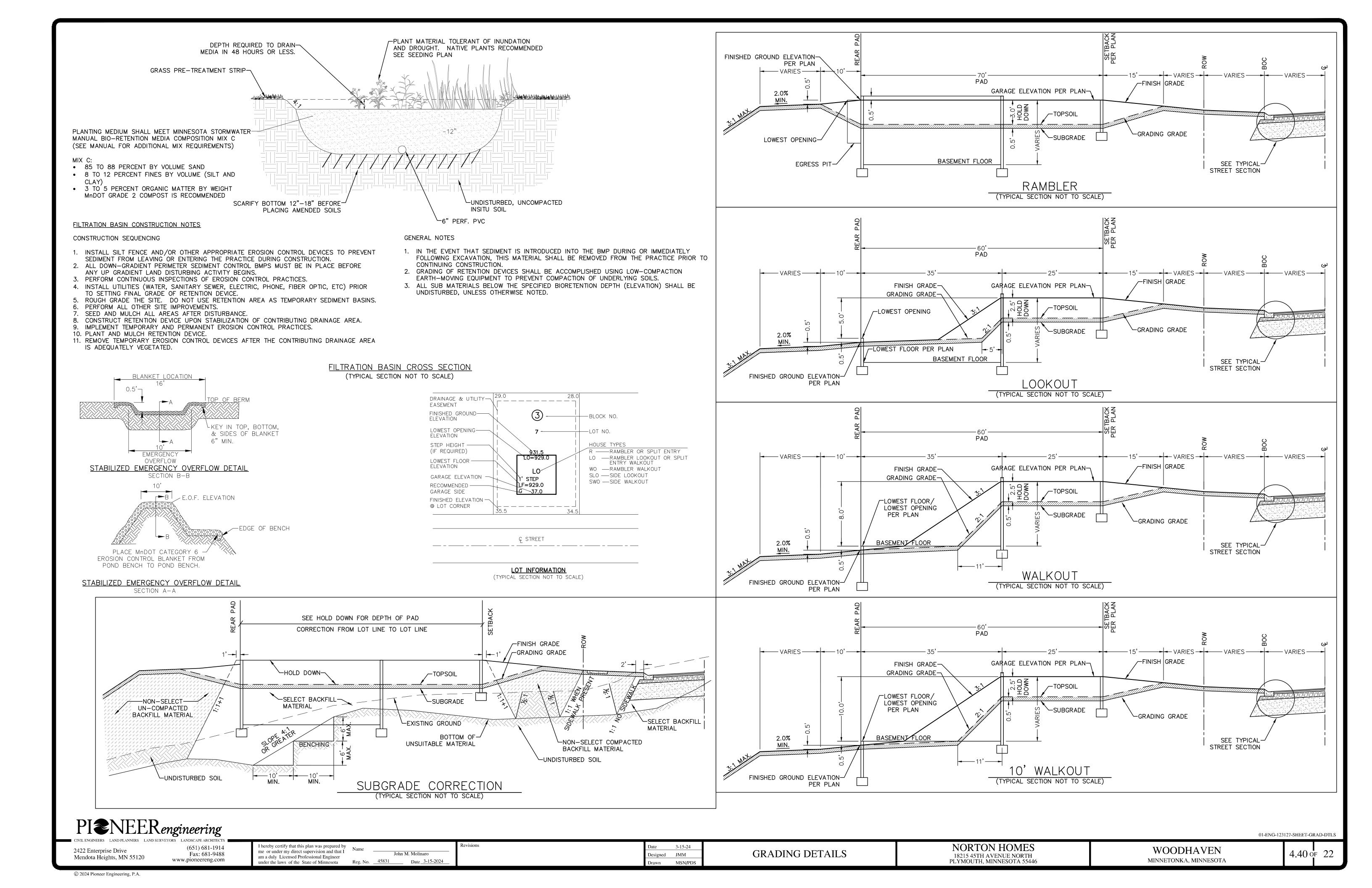


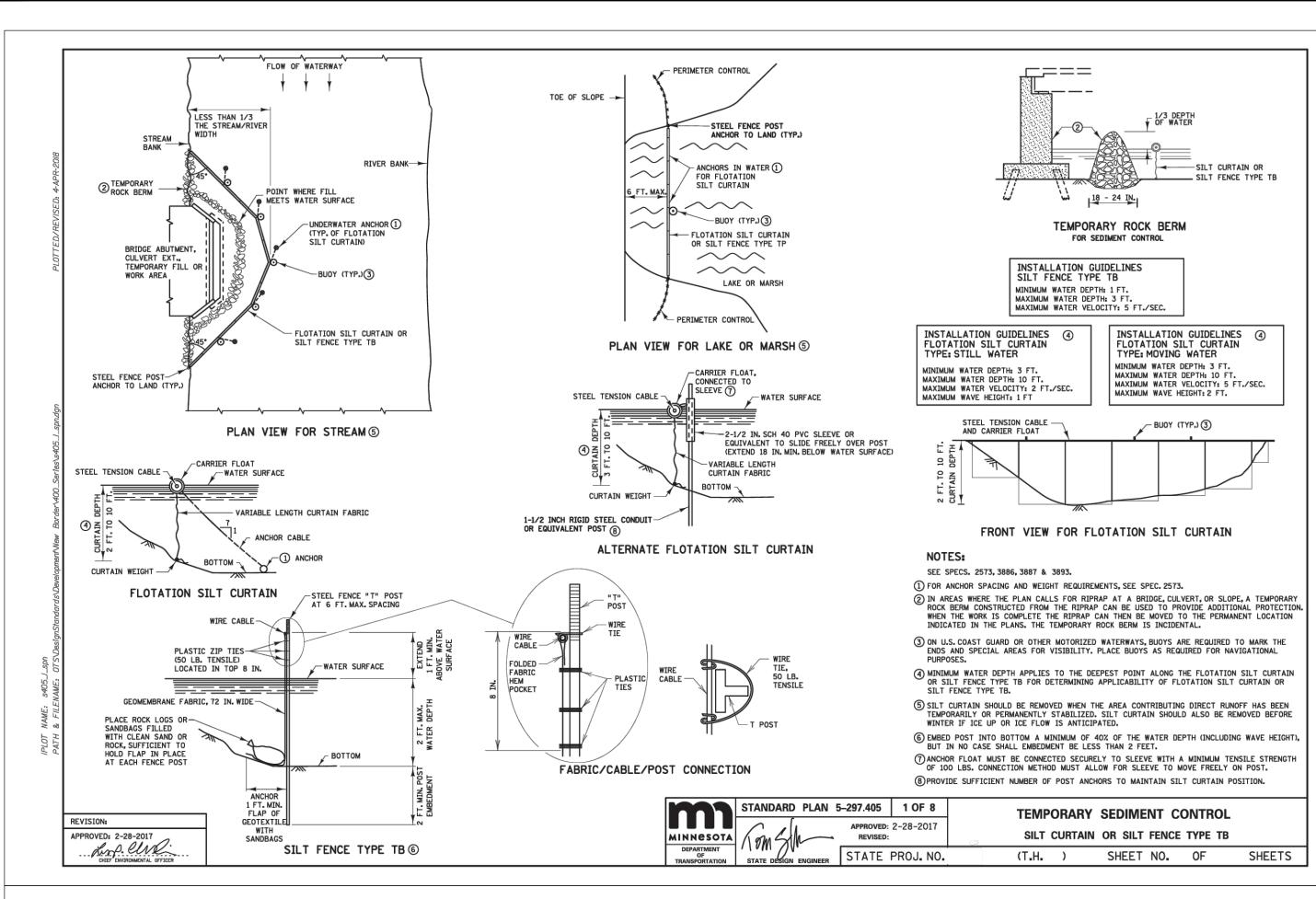


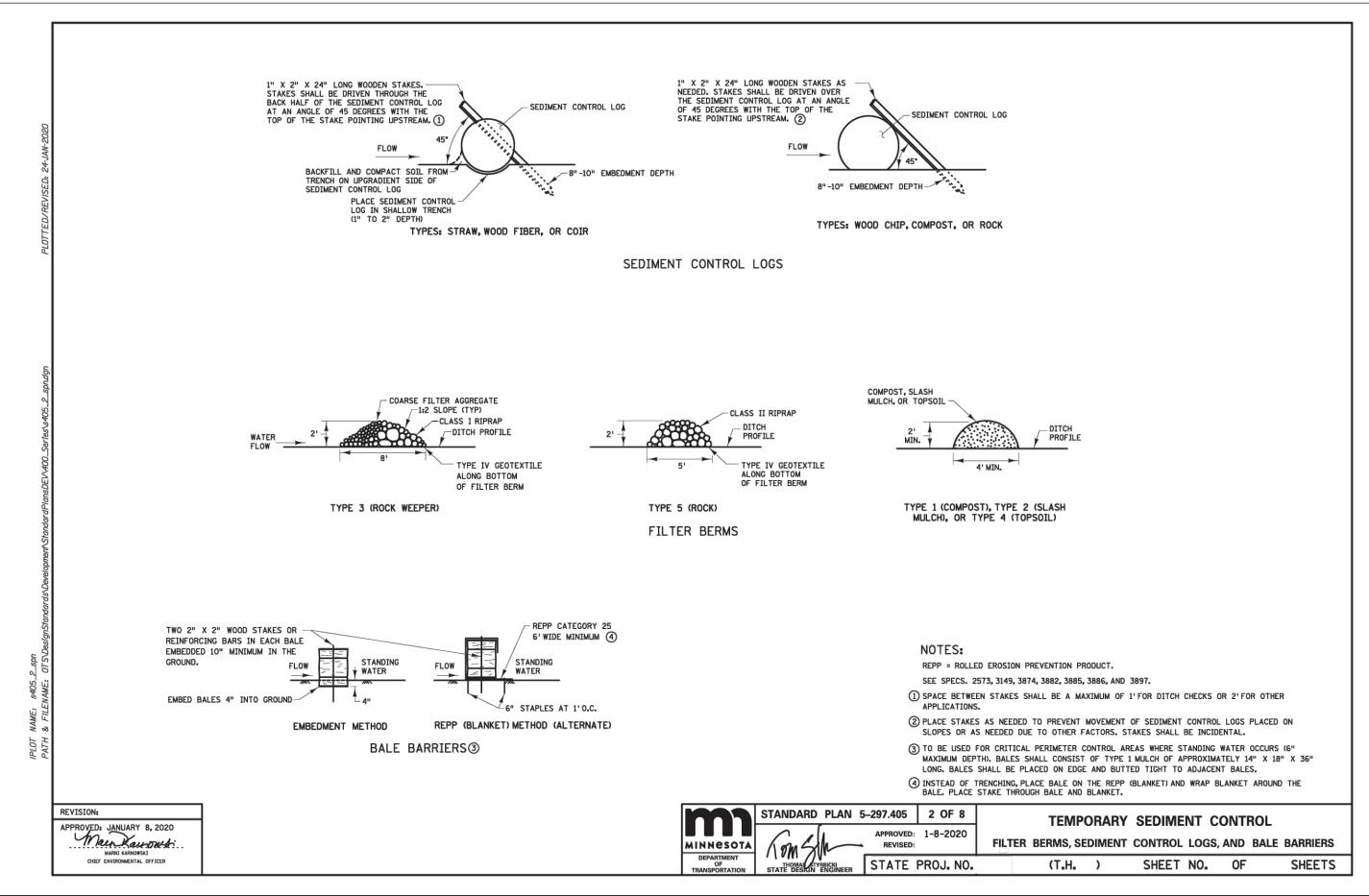


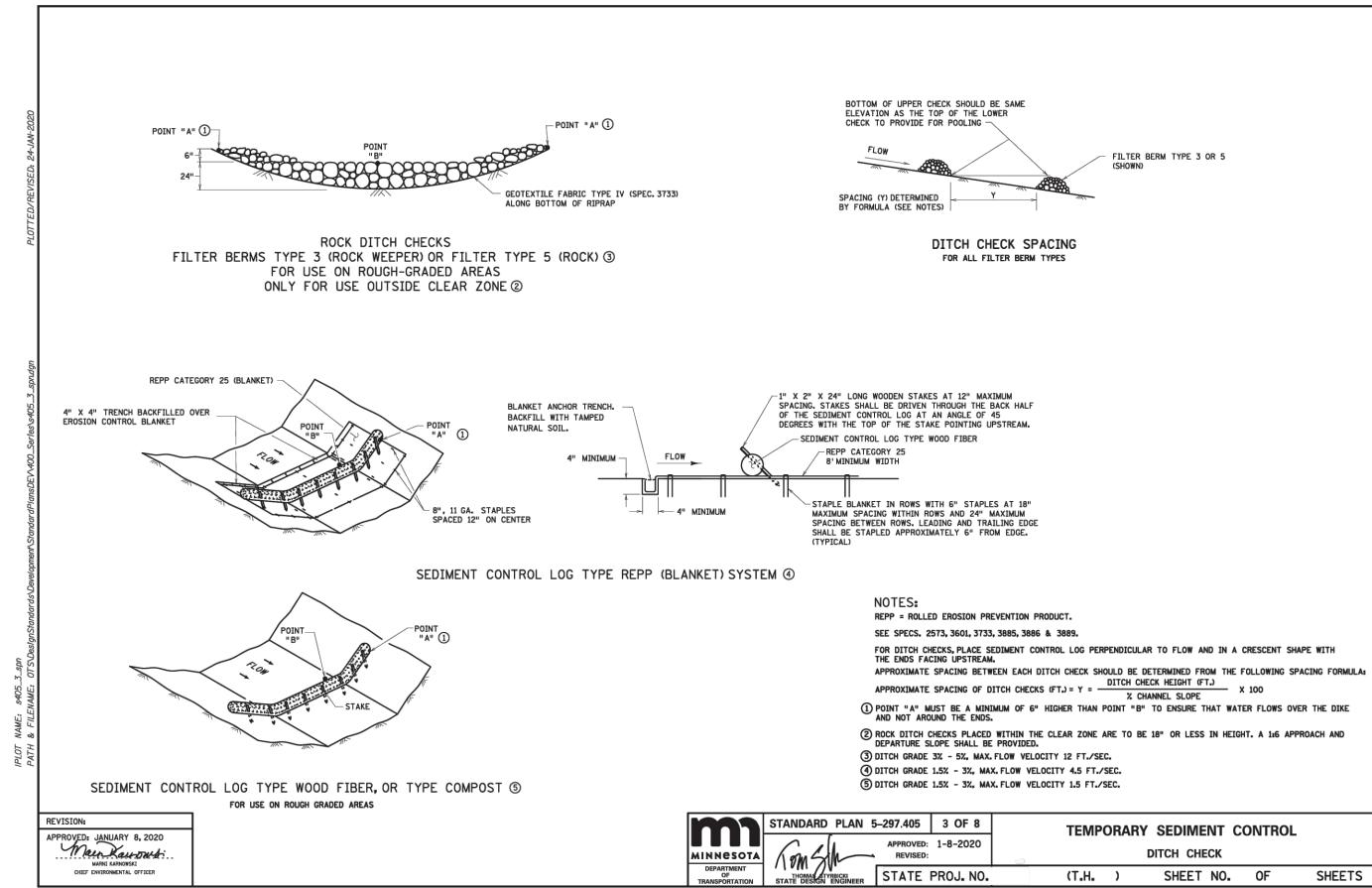


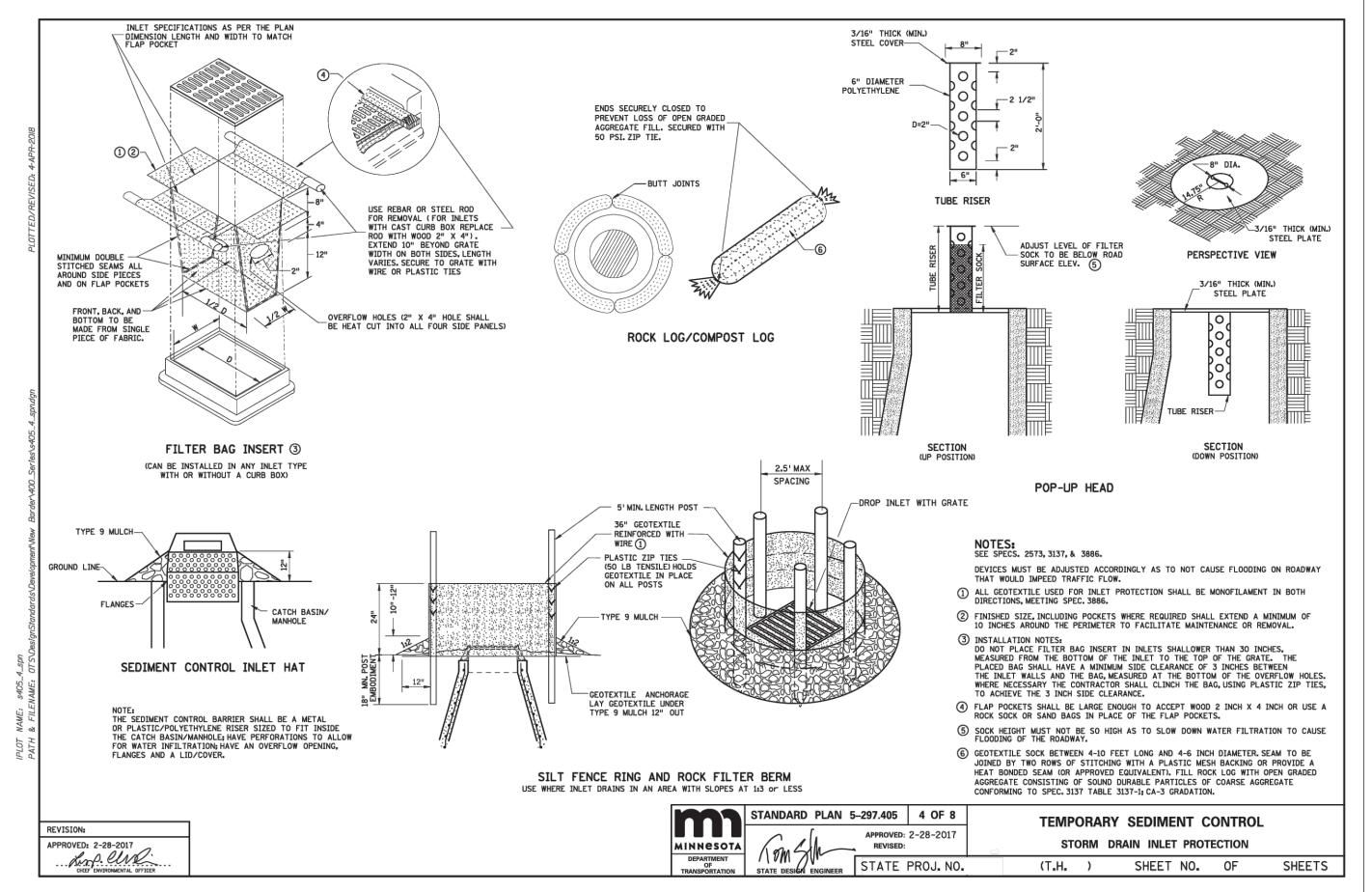












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John M. Molinaro Reg. No. <u>4583</u>1

Date 3-15-2024

3-15-24

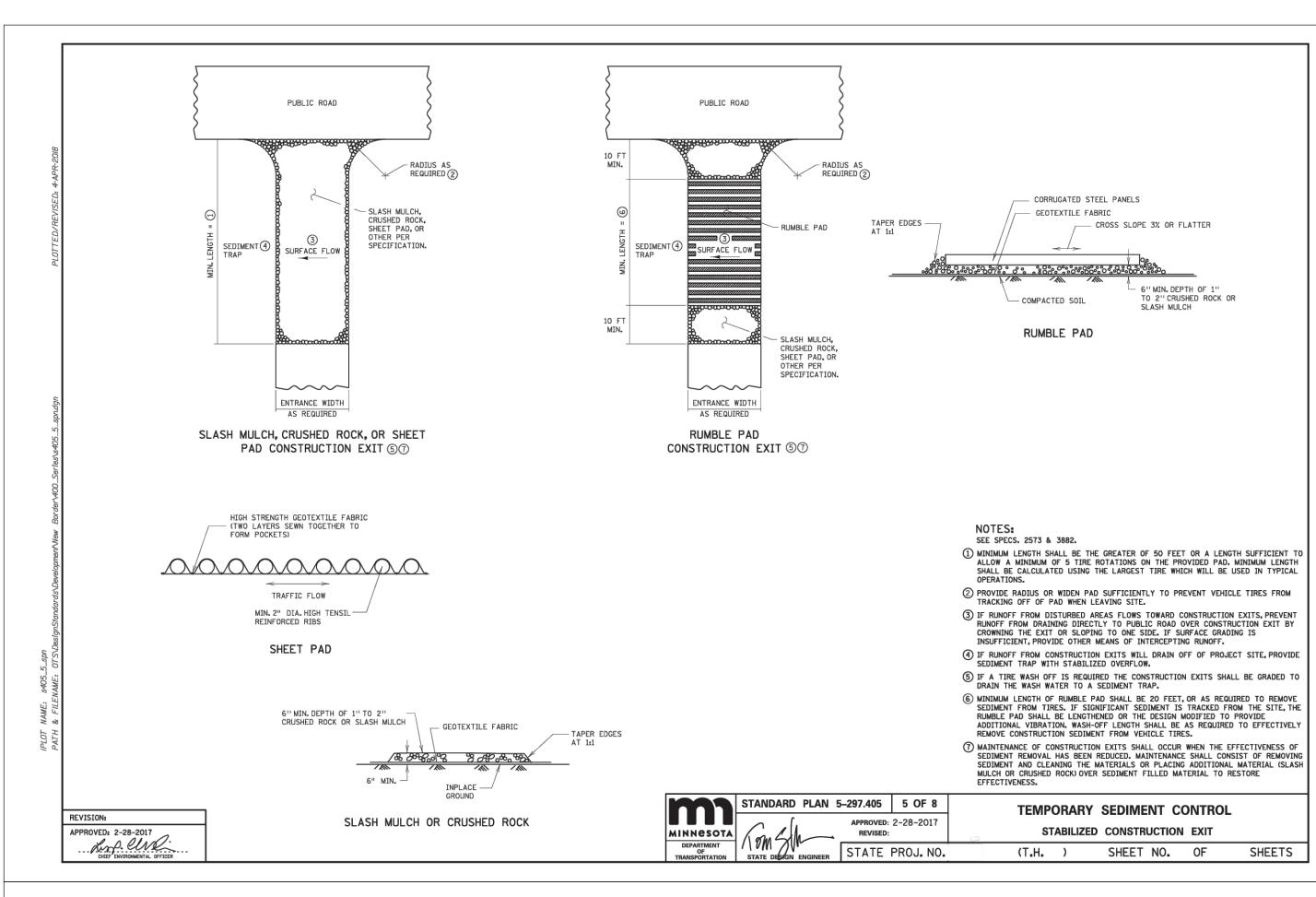
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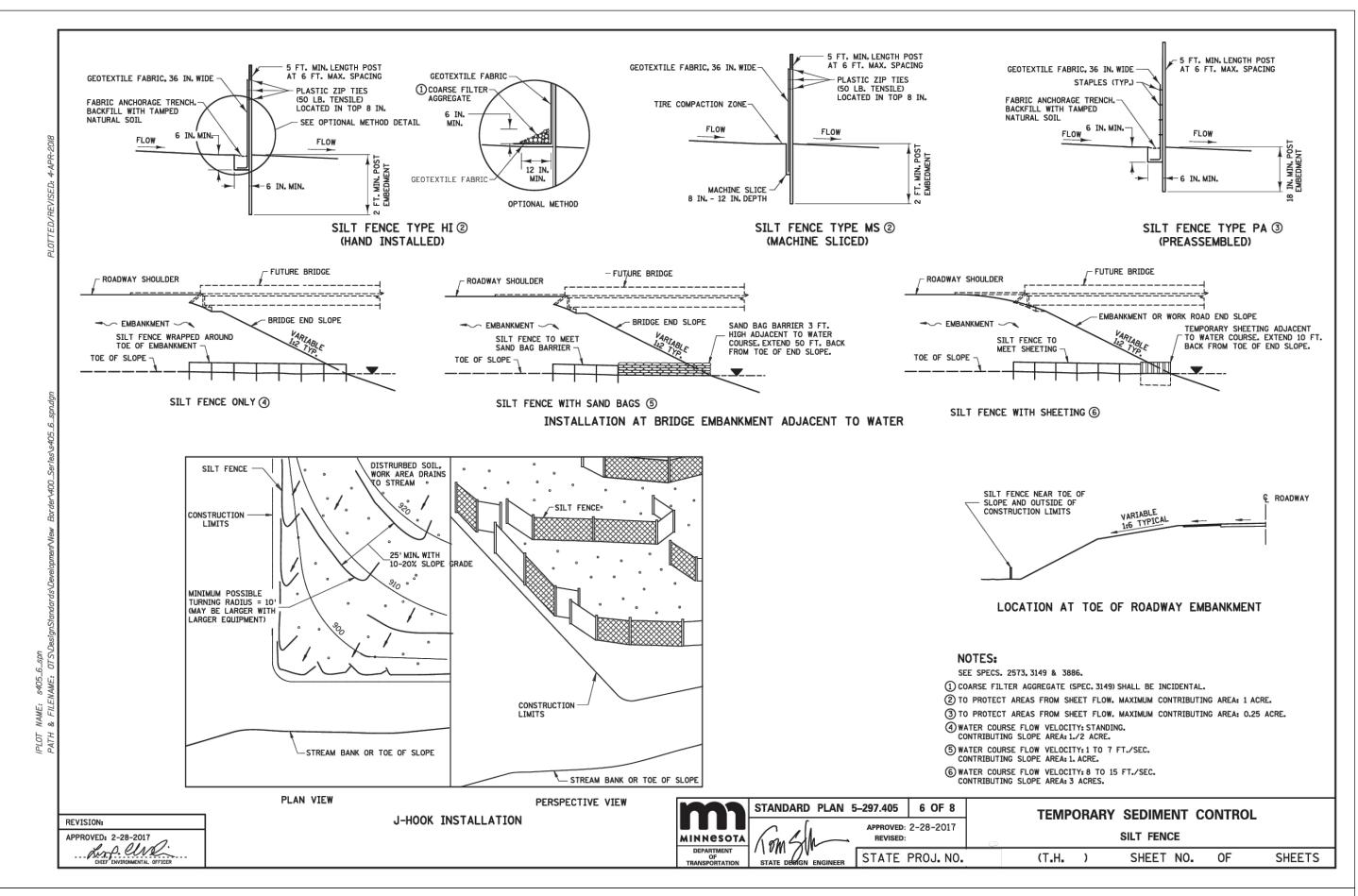
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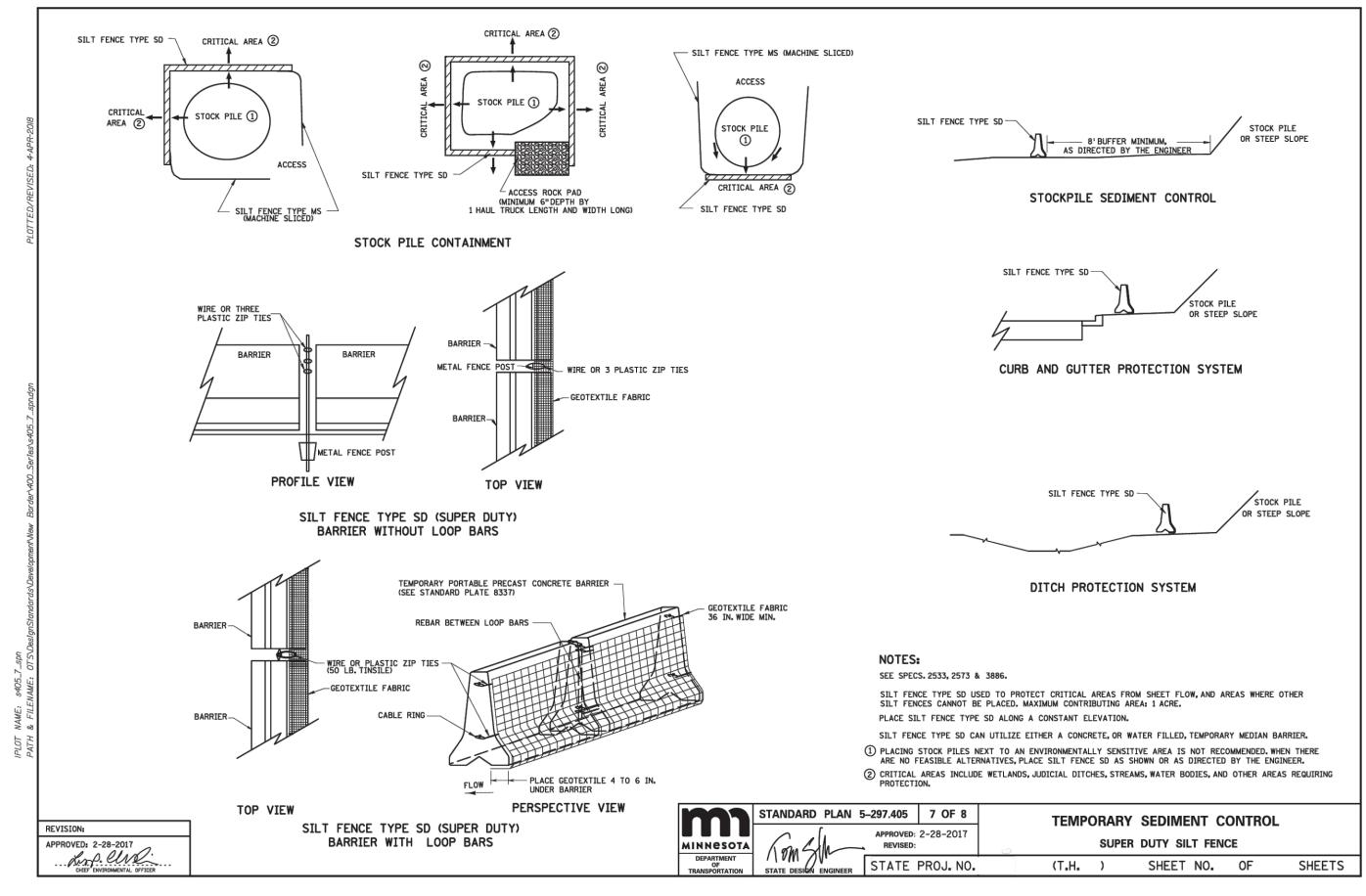
GRADING DETAILS

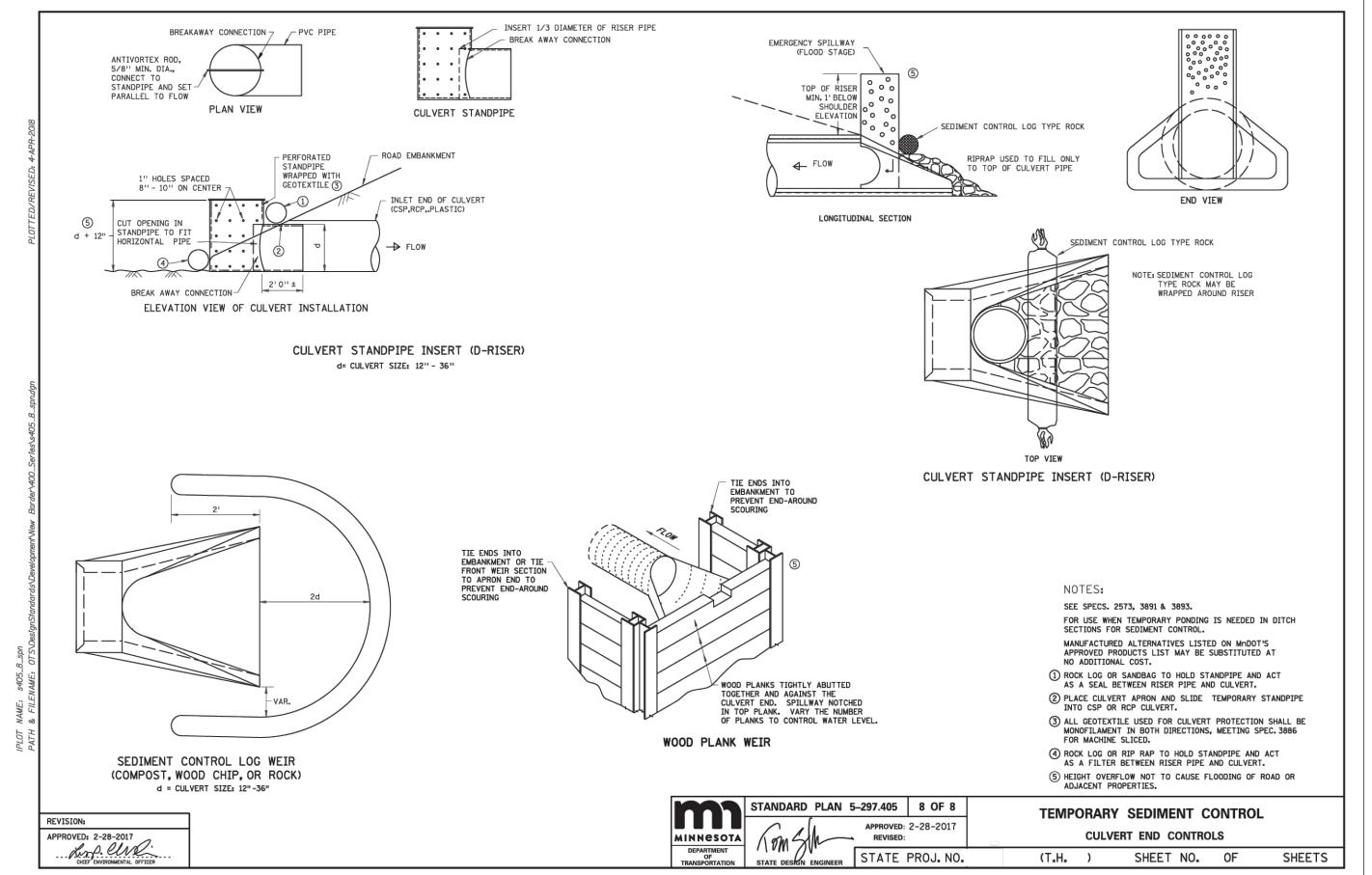
NORTON HOMES 18215 45TH AVENUE NORTH PLYMOUTH, MINNESOTA 55446

WOODHAVEN MINNETONKA, MINNESOTA 01-ENG-123127-SHEET-GRAD-DTLS 4.41 of 22









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Reg. No. <u>4583</u>1

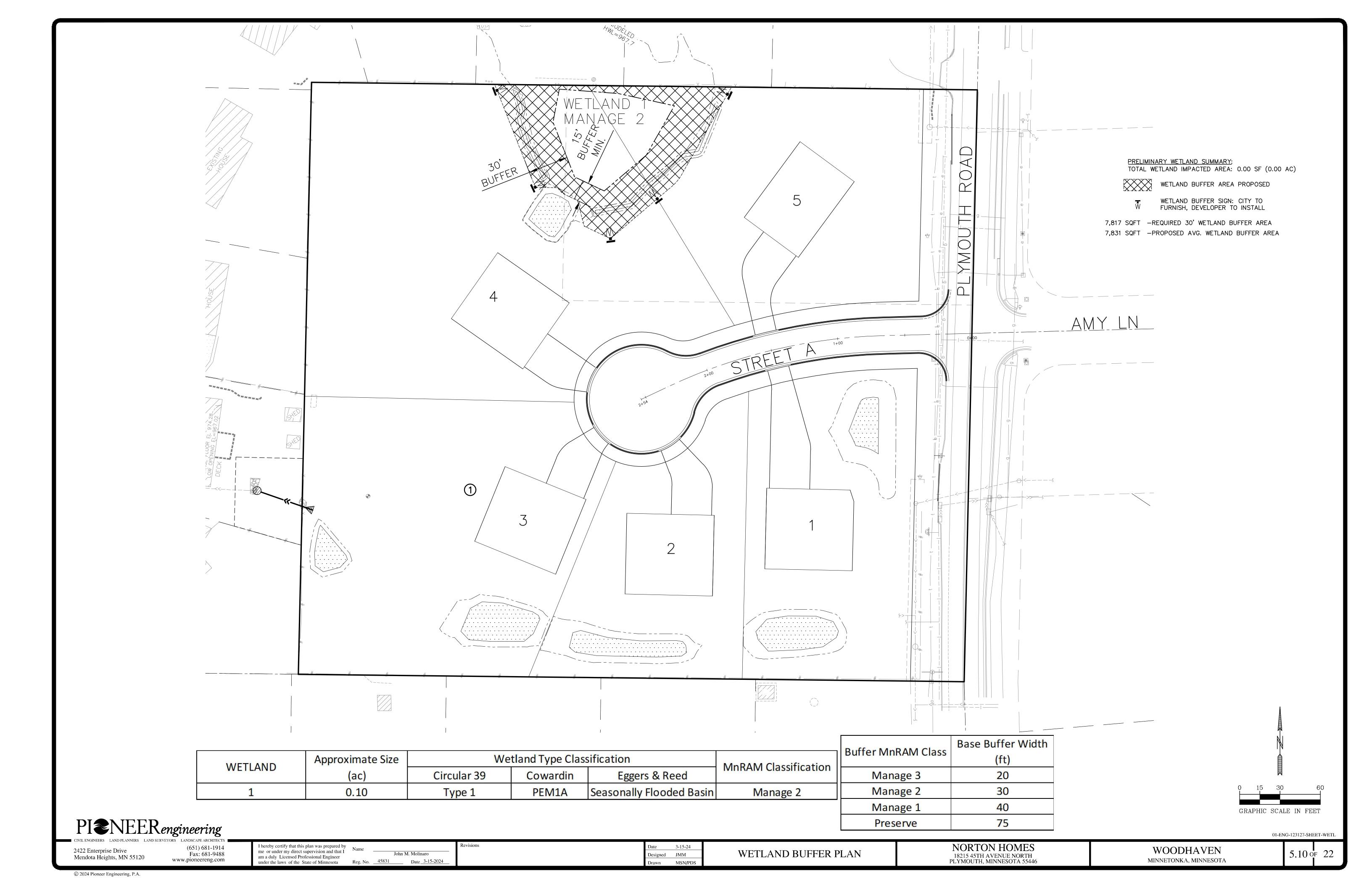
John M. Molinaro Date 3-15-2024

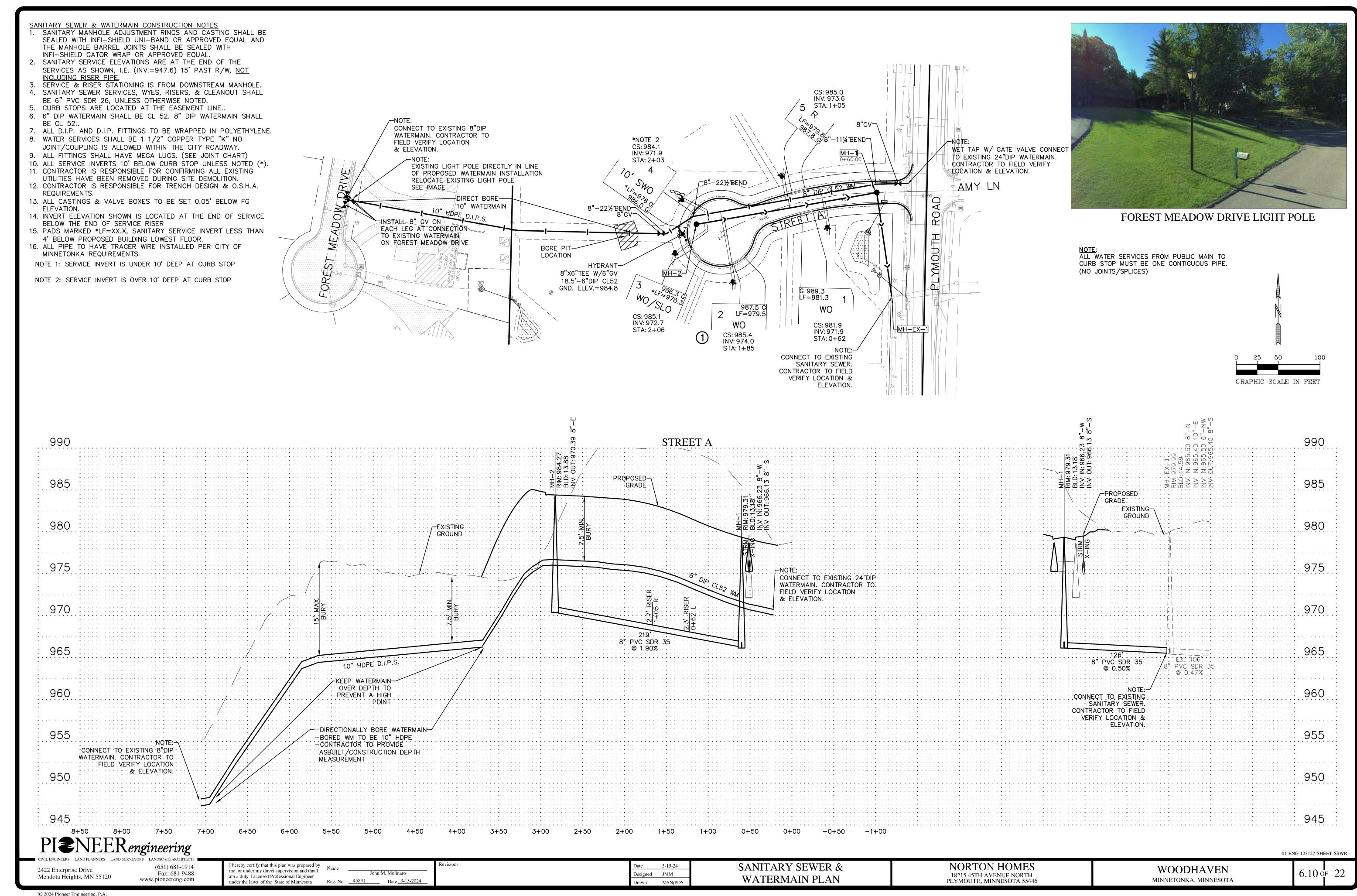
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GRADING DETAILS

NORTON HOMES 18215 45TH AVENUE NORTH PLYMOUTH, MINNESOTA 55446

WOODHAVEN MINNETONKA, MINNESOTA 01-ENG-123127-SHEET-GRAD-DTLS





TORM SEWER CONSTRUCTION NOTES

- PROVIDE R-3250-1 NEENAH CASTINGS OR APPROVED EQUAL ON ALL CATCH BASINS UNLESS OTHERWISE NOTED. SEE MINNETONKA STANDARD PLATE 110 & 120
- PROVIDE 27" DIA. SLAB OPENING FOR R-3250-1 NEENAH CASTINGS ON ALL CATCH BASIN MANHOLES UNLESS OTHERWISE
- DRAINTILE SERVICES & CROSSINGS SHALL BE 4" PVC SDR-26 PERFORATED PIPE. PER MINNETONKA STANDARD DETAIL 160 &
- FINAL STRUCTURE OFFSET TO BE VERIFIED BY CONTRACTOR AND INSPECTOR BASED ON MATERIAL SUPPLIED TO PROJECT. FIELD STAKING SHALL BE SET ACCORDING TO BACK-OF-CURB.
- INLET CASTINGS SHALL BE SET 0.17' BELOW GUTTERLINE GRADE. CONCRETE PIPE MUST BE BEDDED TO A MINIMUM OF THE CLASS C BEDDING REQUIREMENTS. SEE MINNETONKA STANDARD SPECS.

THE LOCATION OF ALL VERTICAL / HORIZONTAL BENDS, SEWER SERVICE INVERTS NEED TO BE VERIFIED BY CITY REPRESENTATIVE BEFORE BACKFILLING PER MN OPS REQUIREMENTS. SEE MINNETONKA SPECS.

| STRUCTURE TABLE | | | | | | | |
|-------------------|------|-------------------|-------------------------------|-------|--|--|--|
| STRUCTURE NAME | TYPE | STRUCTURE SIZE | NEENAH CASTING OR EQUAL | NOTES | | | |
| 100B | ocs | 48" DIA. | SPECIAL | | | | |
| 102 | СВМН | 48" DIA. | R-3250-1 | 2 | | | |
| 103 | СВ | 27" DIA. | R-3250-1 | 1 | | | |
| 252 | | , | 5 4740 | | | | |

- WATER TIGHT SPECIAL NOTE

 A. STRUCTURE SHALL HAVE AN INTEGRAL BASE PIPE CONNECTION TO STRUCTURE WITH PRESS-SEAL
- WATERSTOP GROUT RING OR APPROVED EQUAL. C. PIPE JOINTS WITHIN 10 OF WATERMAIN WILL BE TONGUE AND
- GROOVE WITH A HAMILTON KENT SUPERSEAL GASKET OR APPROVED EQUAL MEETING ASTM-443. D. ALL MH JOINTS WILL BE TOINGUE AND GROOVE WITH A
- HAMILTON KENT SUPERSEAL GASKET OR APPROVED EQUAL MEETING ASTM-443.

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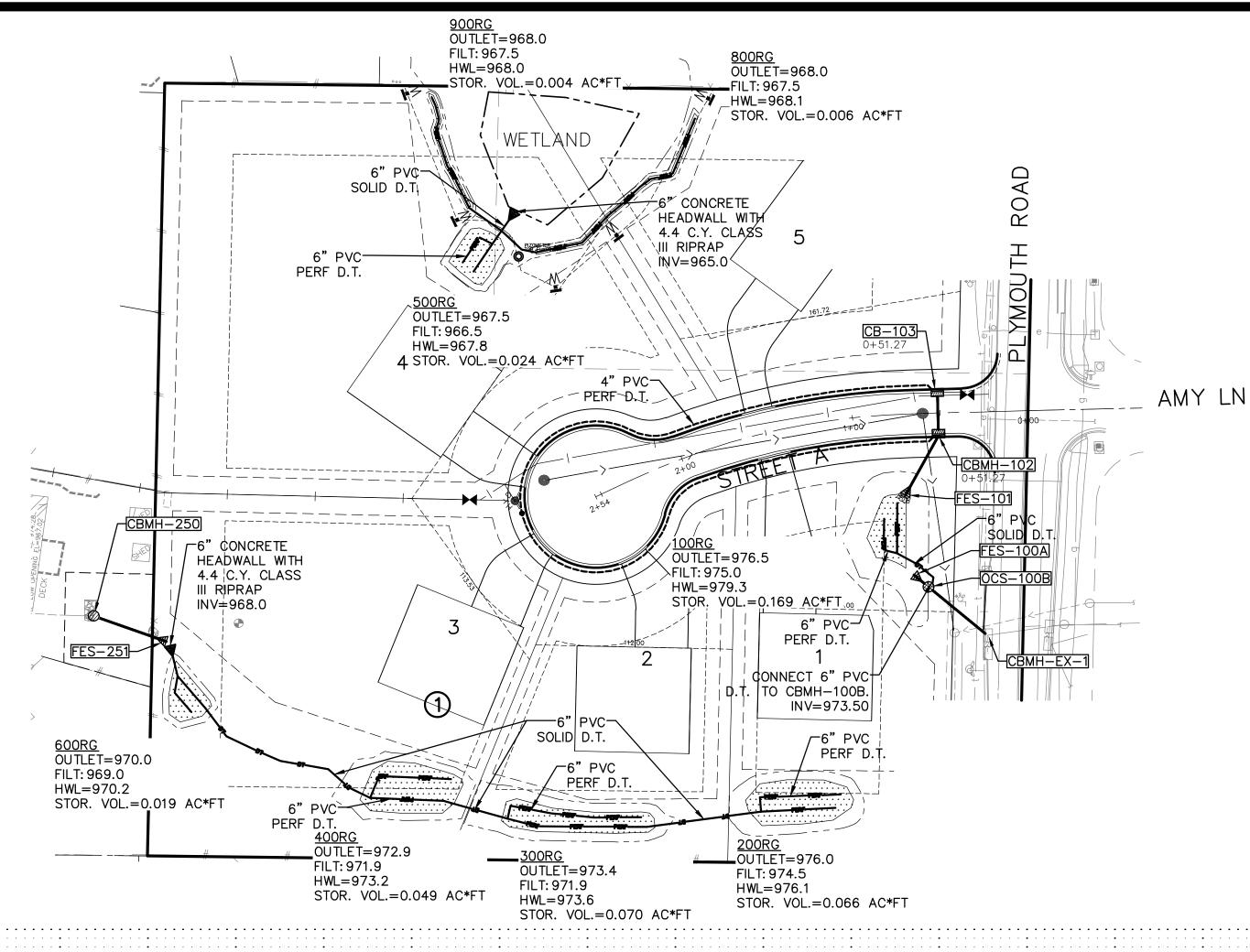
am a duly Licensed Professional Engineer

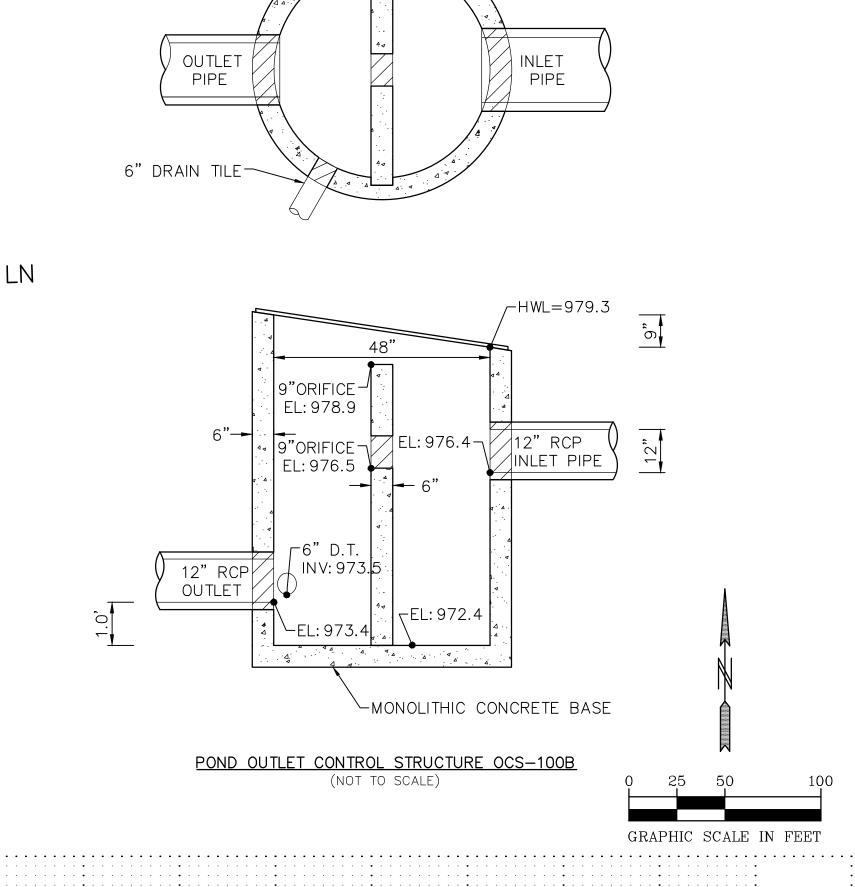
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John M. Molinaro

Date 3-15-2024

- 2. PRETREATMENT STRUCTURE
- A. SAFL BAFFLE WITH SUMP OR APPROVED EQUAL



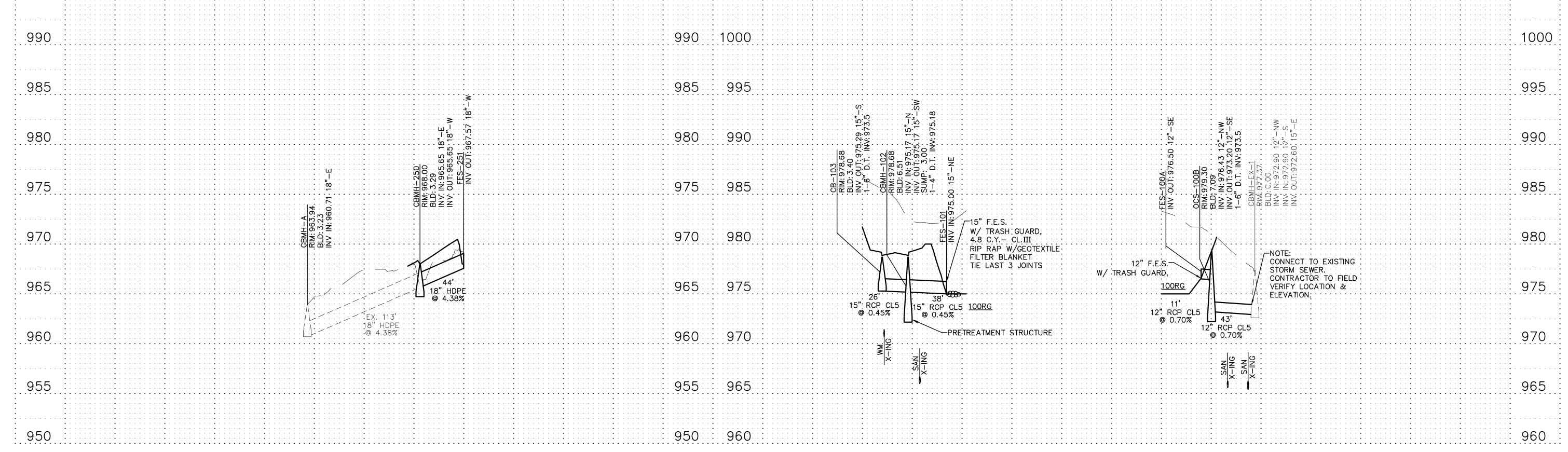


NORTON HOMES
18215 45TH AVENUE NORTH

01-ENG-123127-SHEET-STRM

WOODHAVEN

MINNETONKA, MINNESOTA

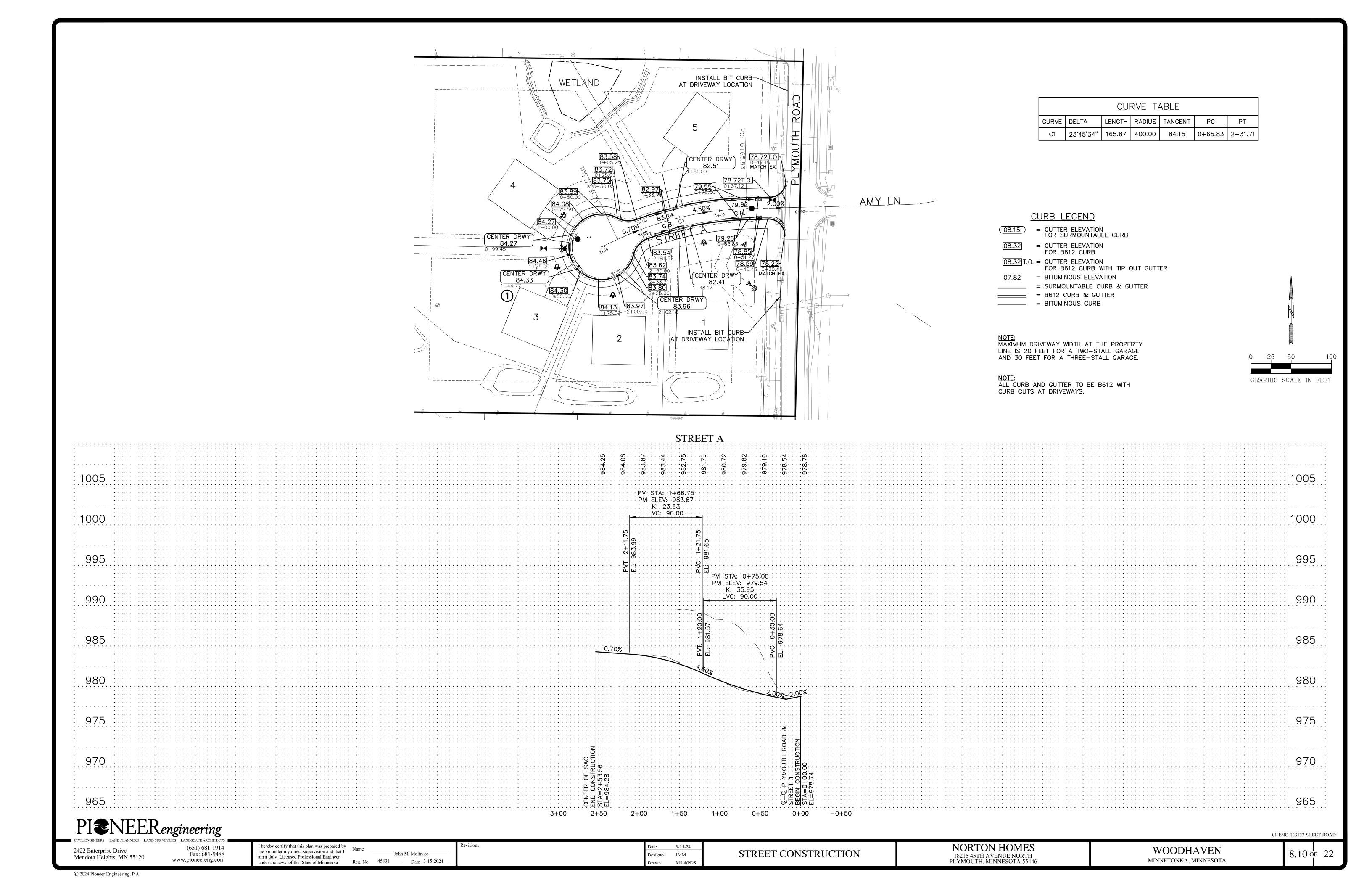


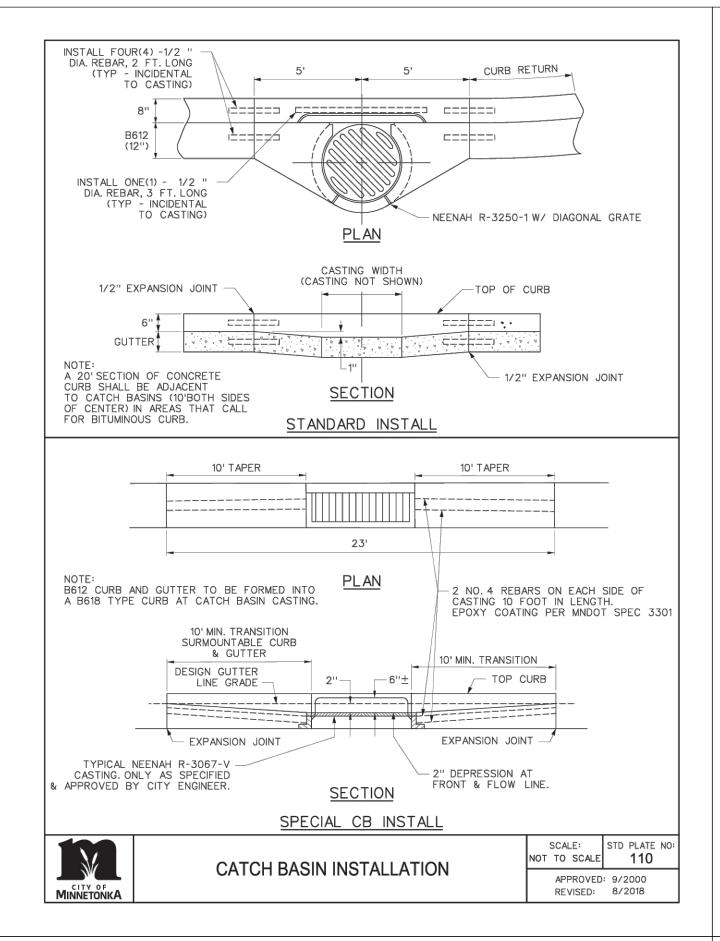
STORM SEWER PLAN

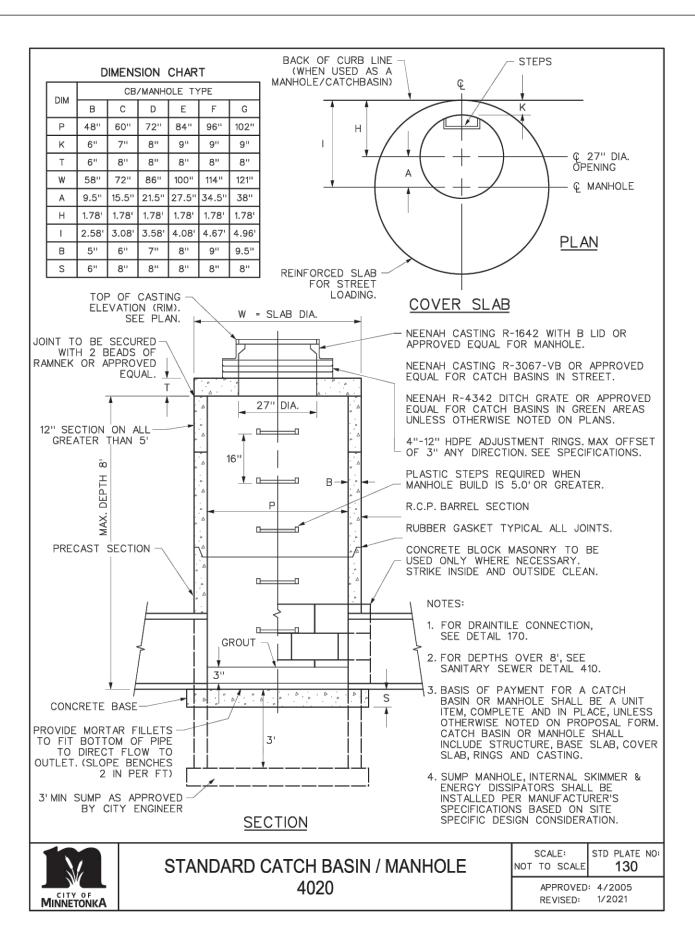
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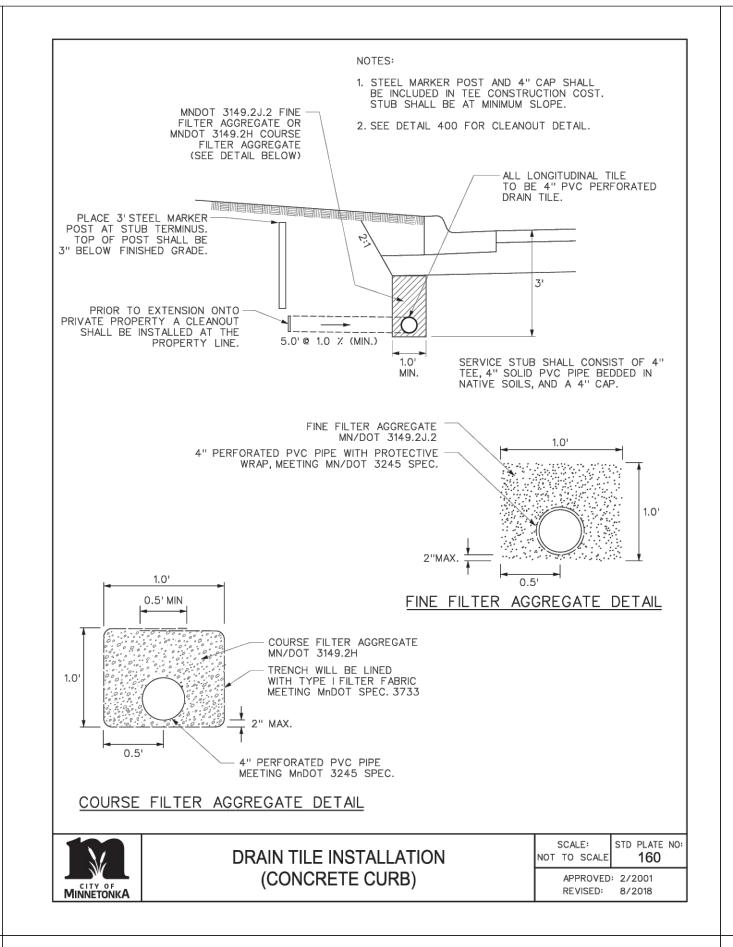
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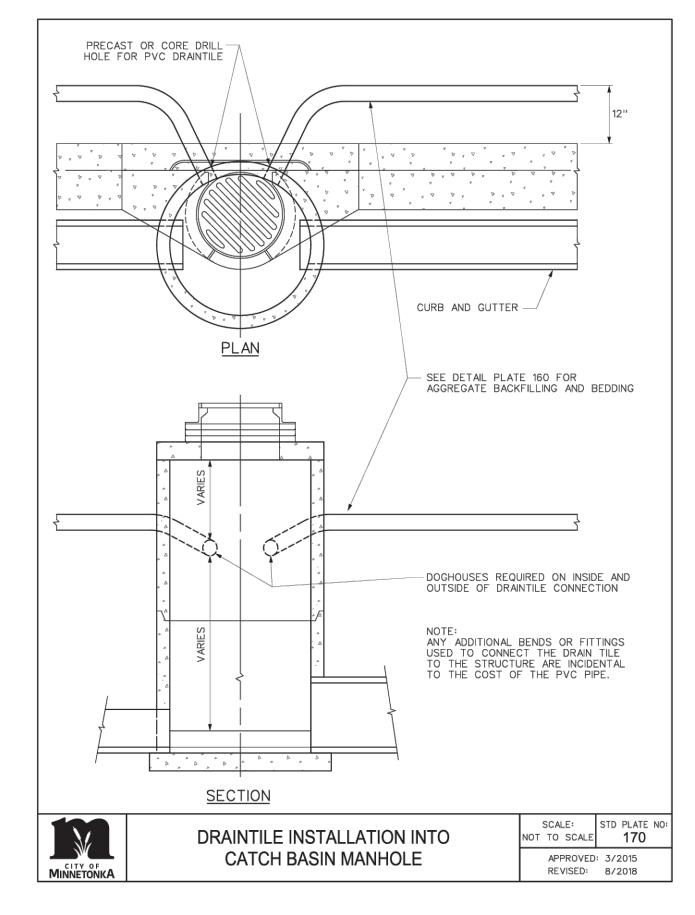
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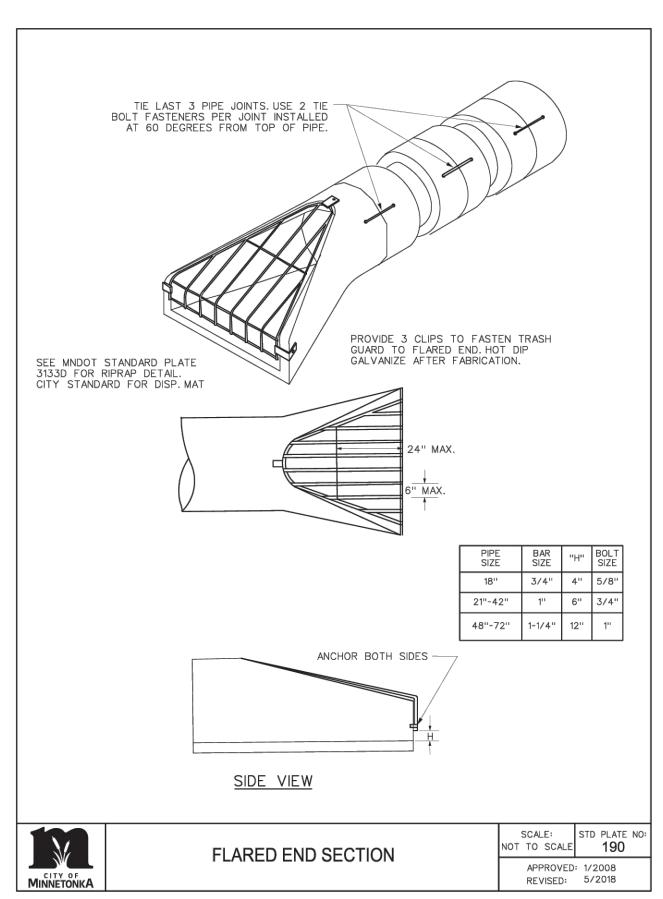


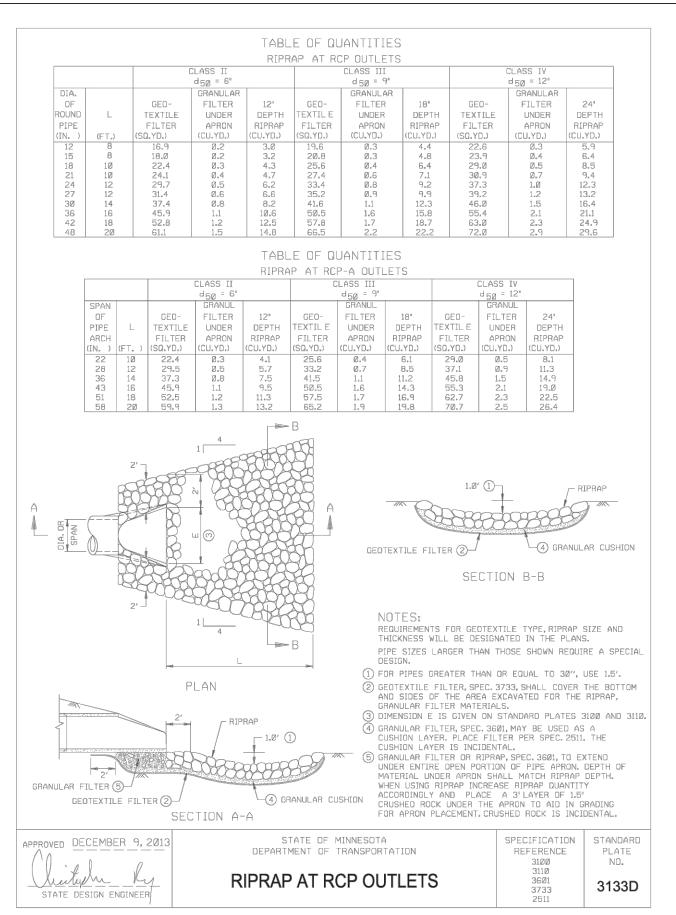


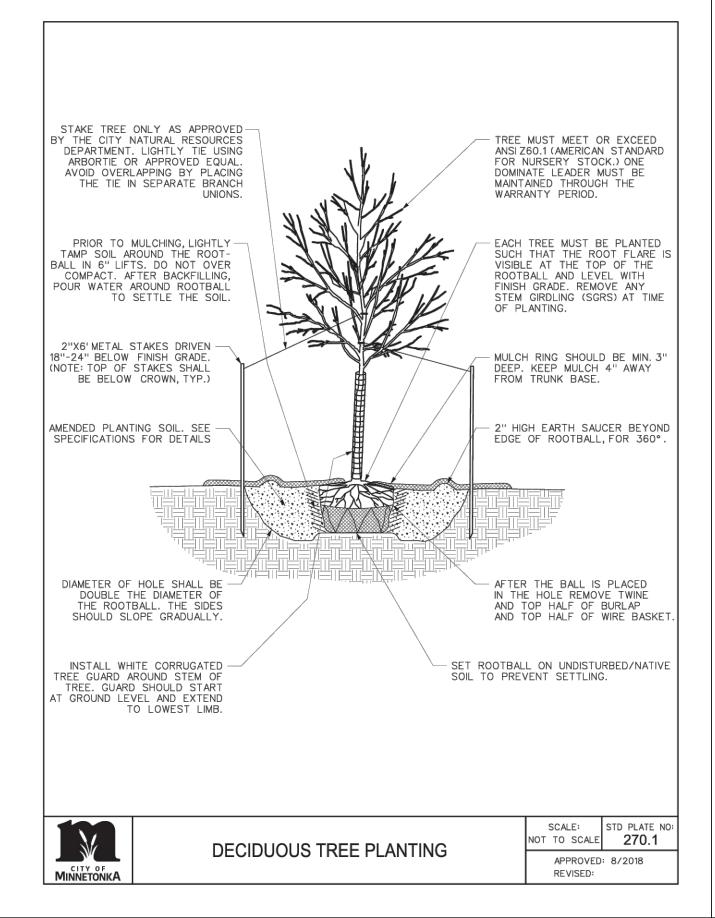


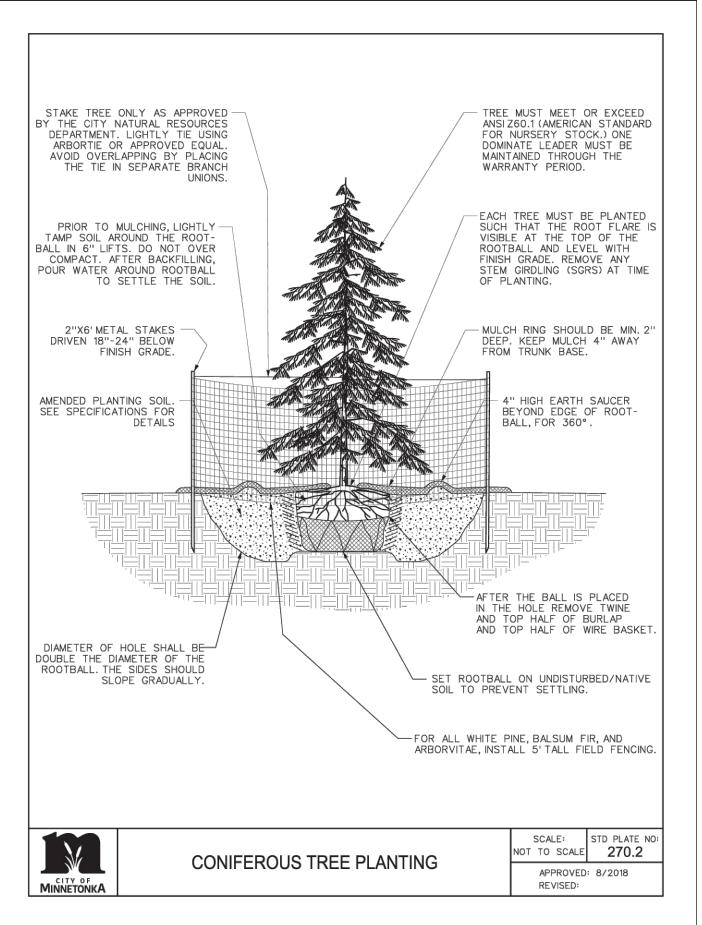












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John M. Molinaro

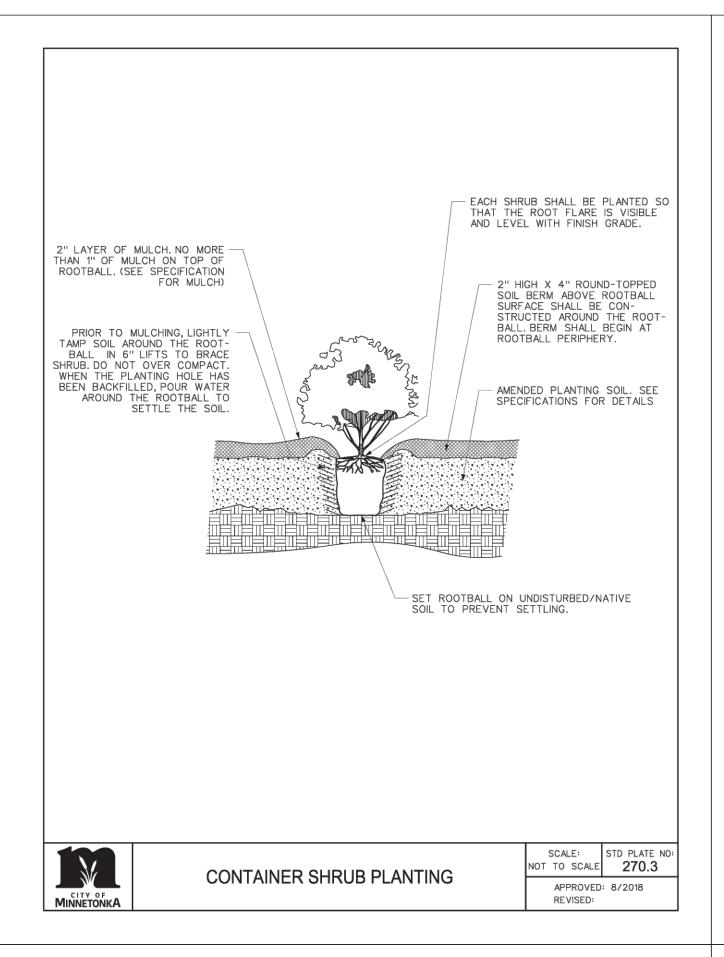
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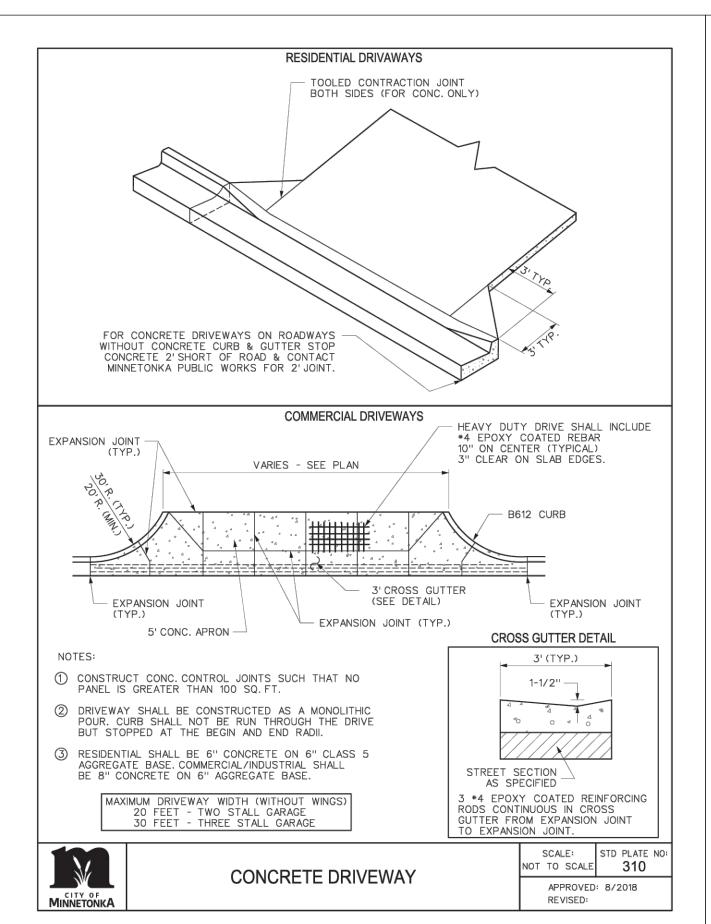
Revisions

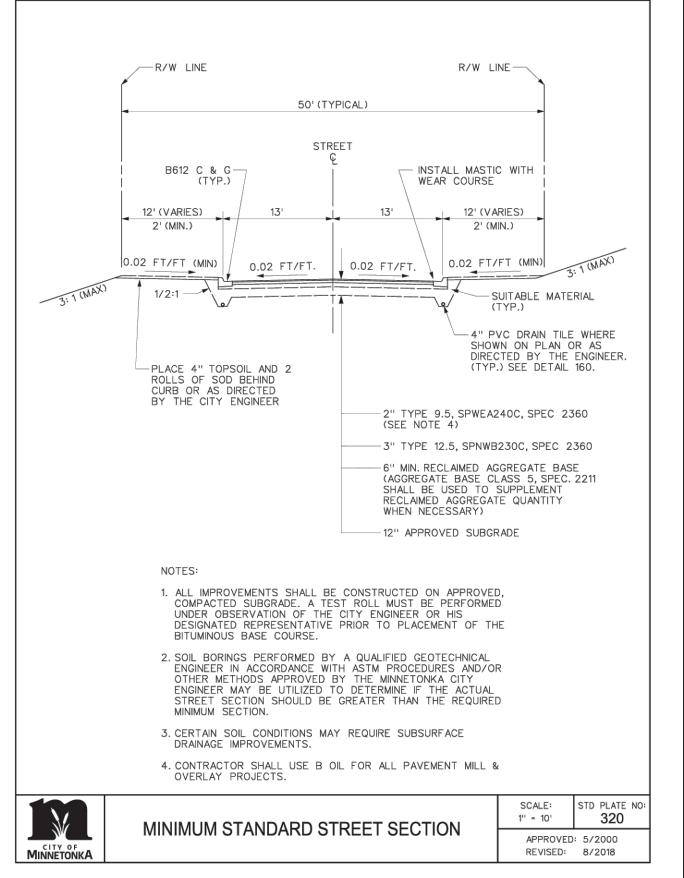
3-15-24 JMM Designed MSN/PDS **DETAILS**

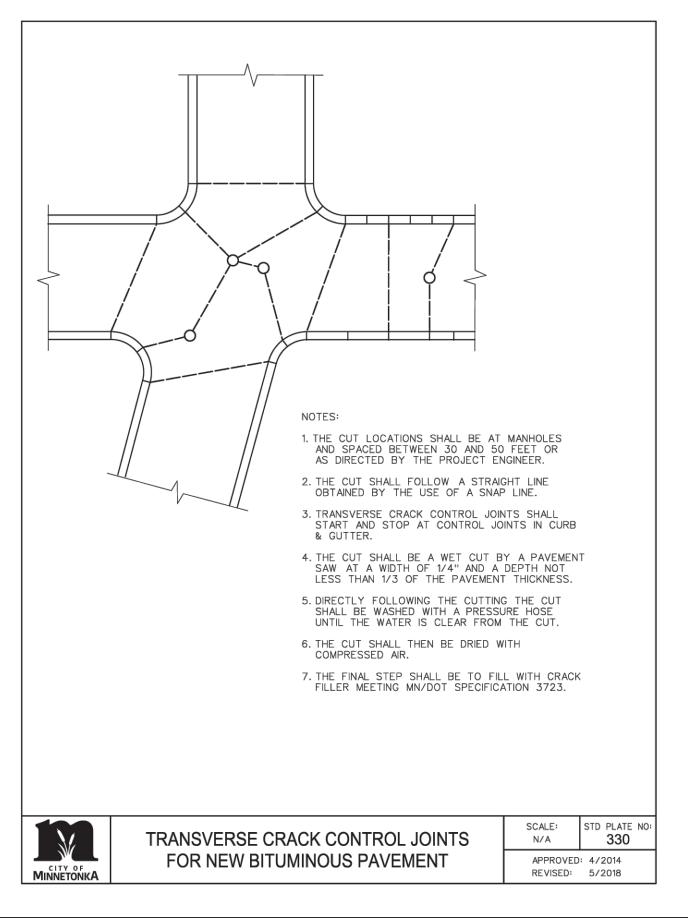
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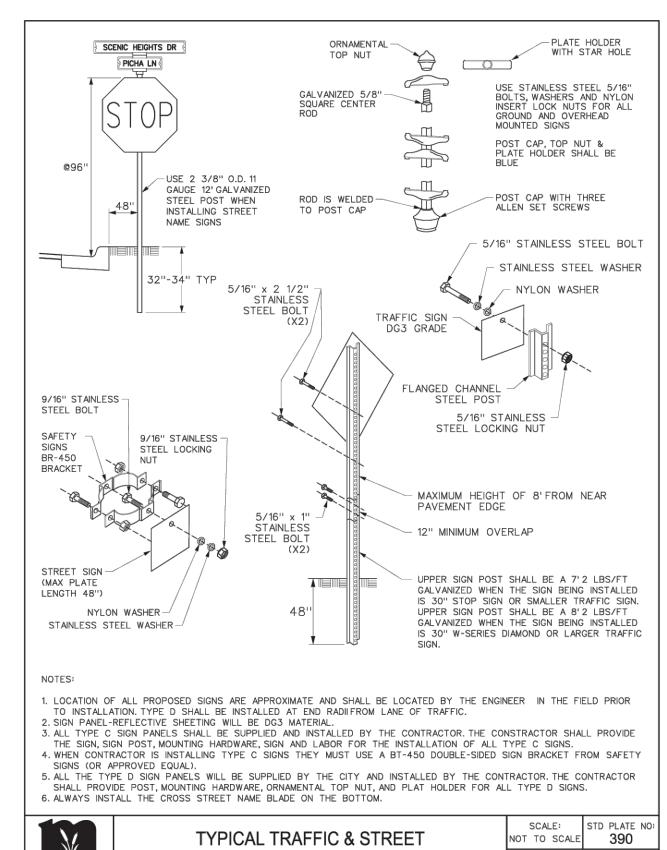
01-ENG-123127-SHEET-DTLS 9.10 of 22

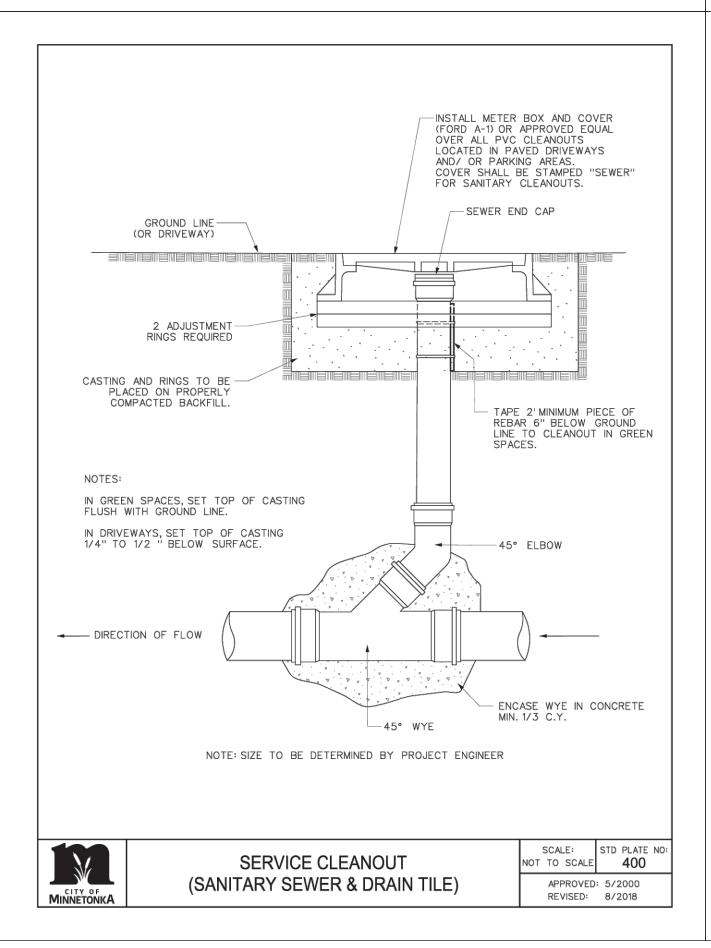


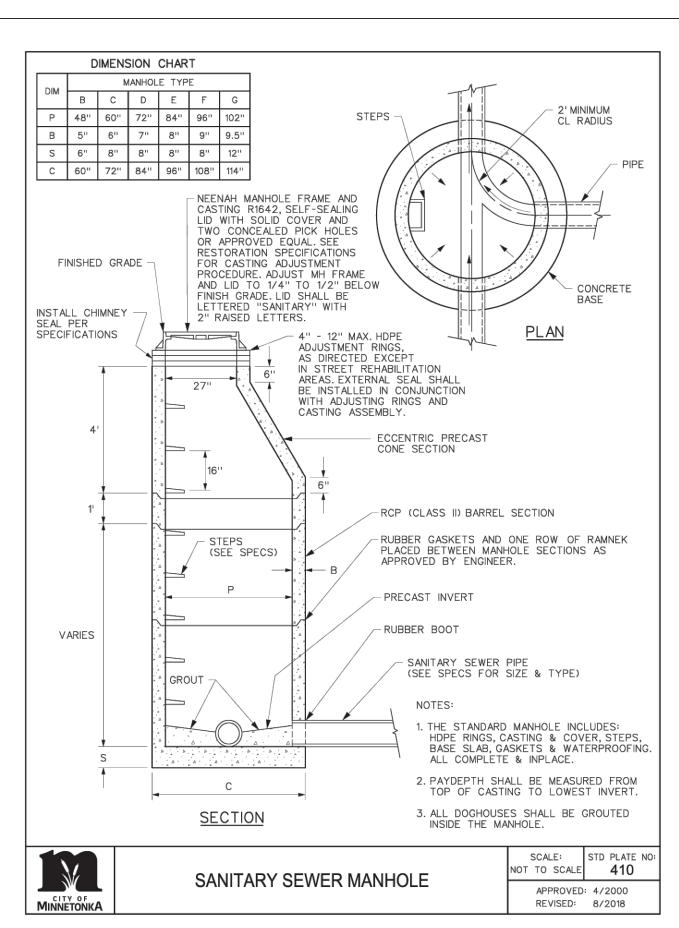


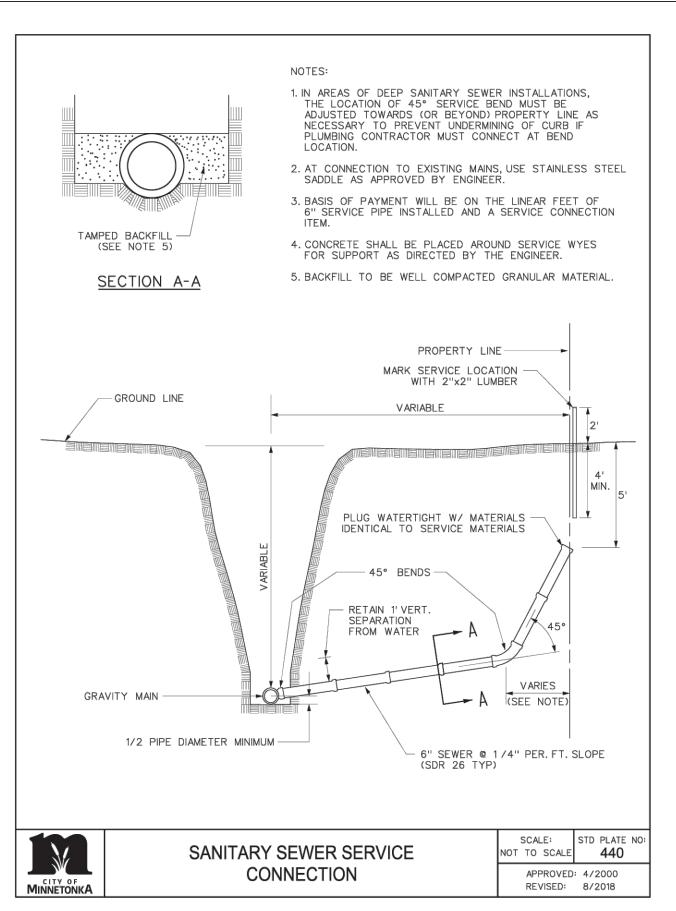














MINNETONKA

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NAME SIGN INSTALLATION

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APPROVED: 12/2018

REVISED:

Date 3-15-2024

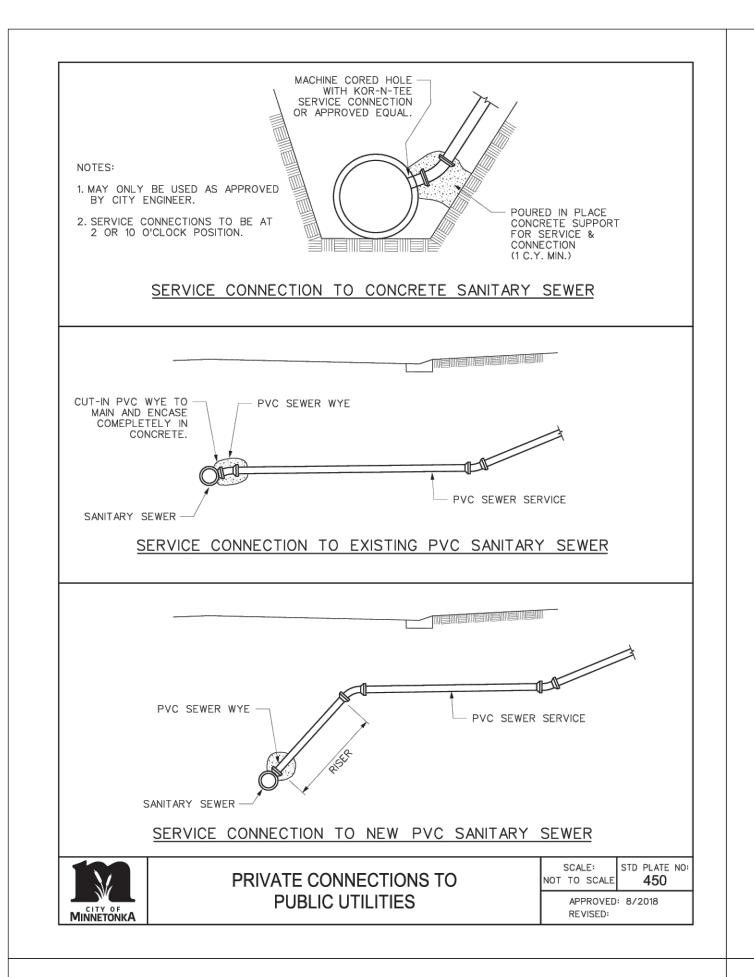
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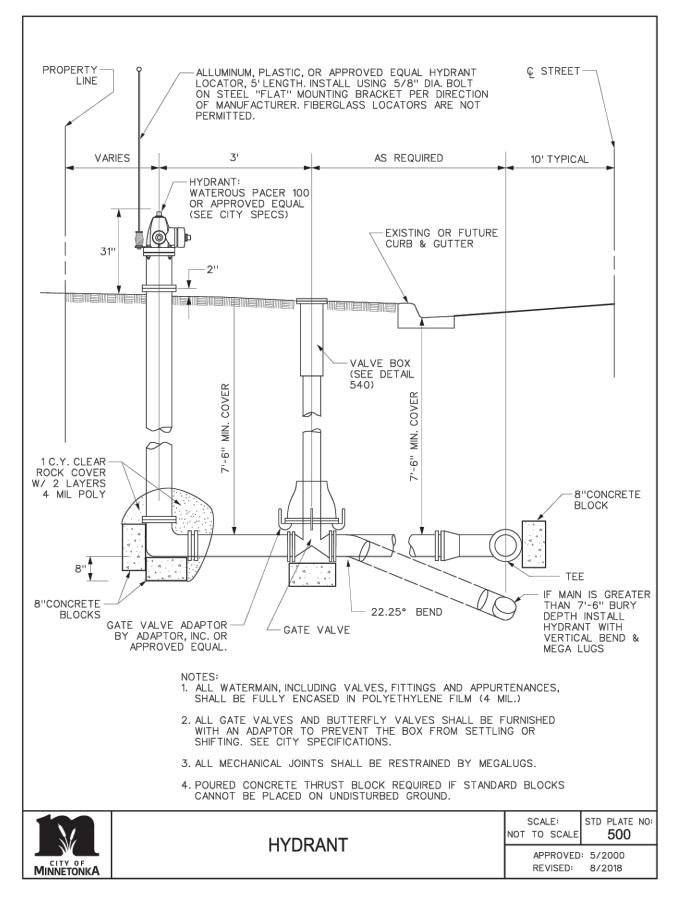
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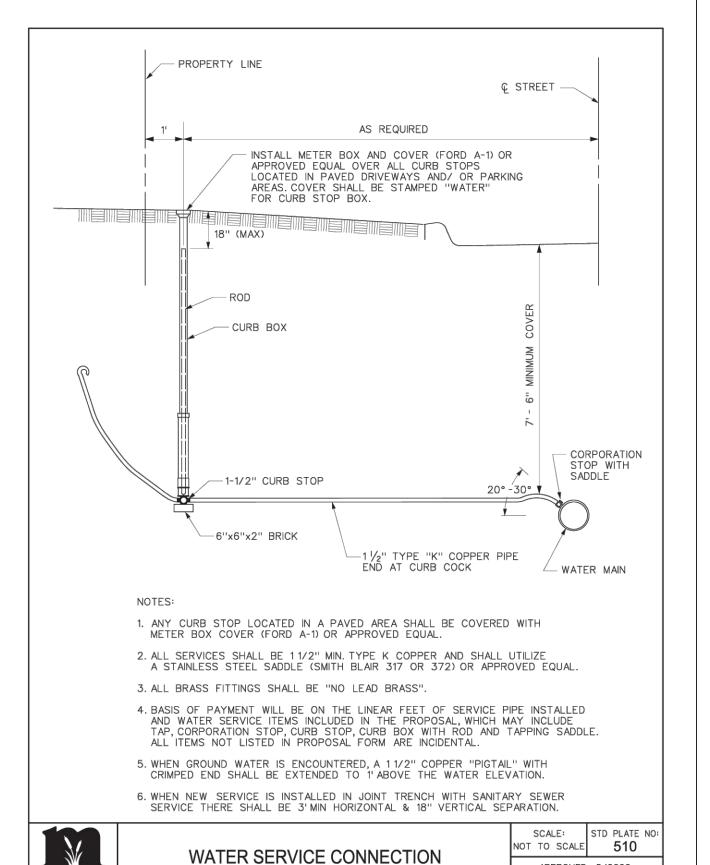
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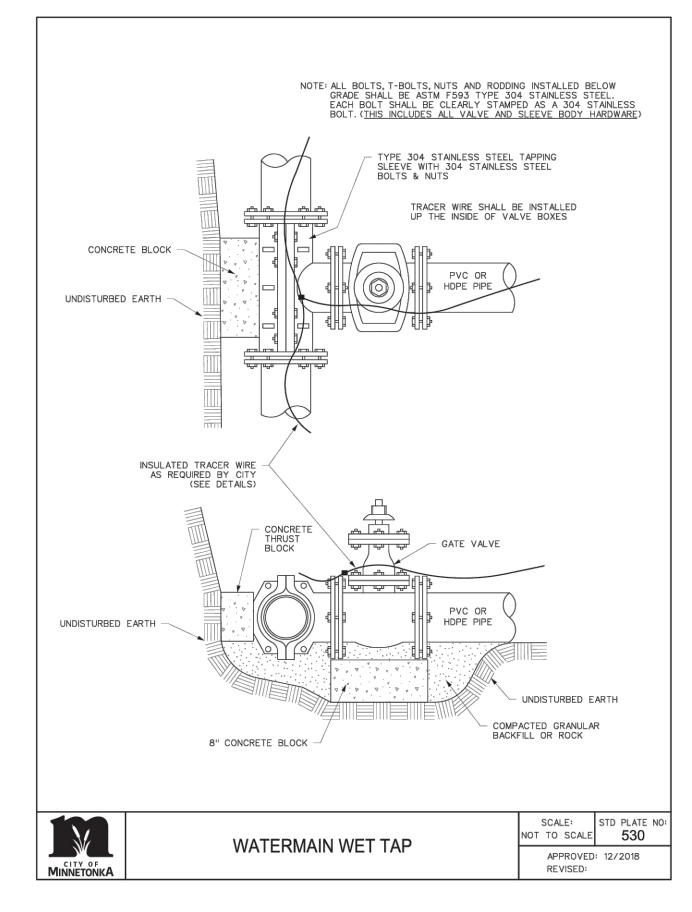
WOODHAVEN MINNETONKA, MINNESOTA 9.11 of 22

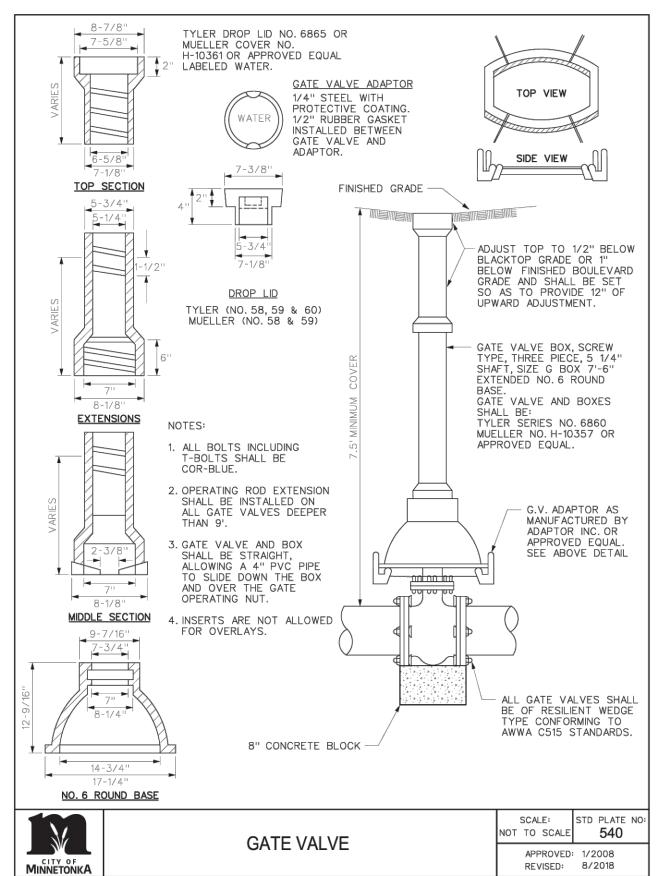
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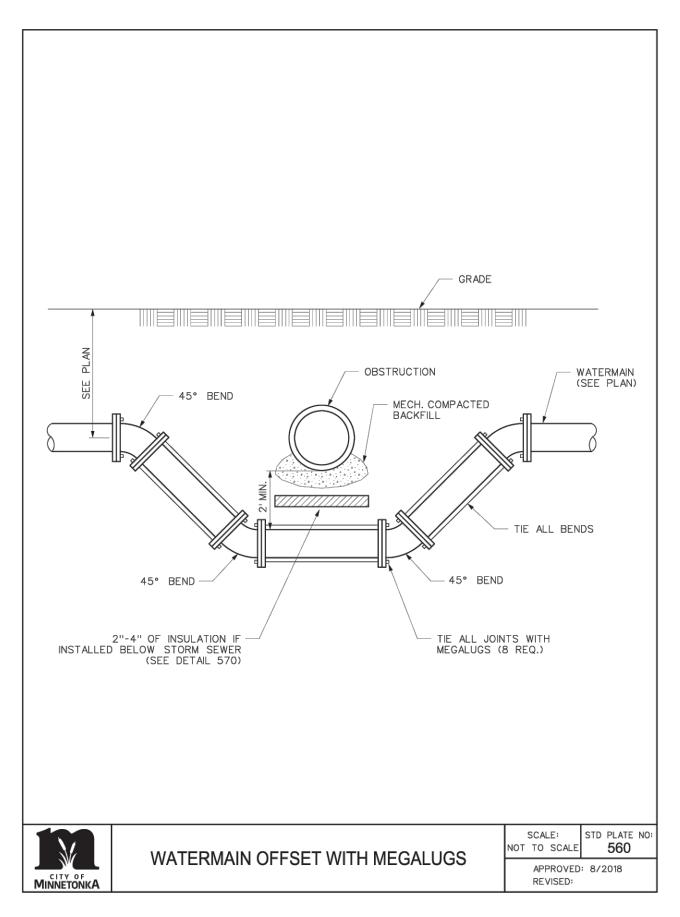


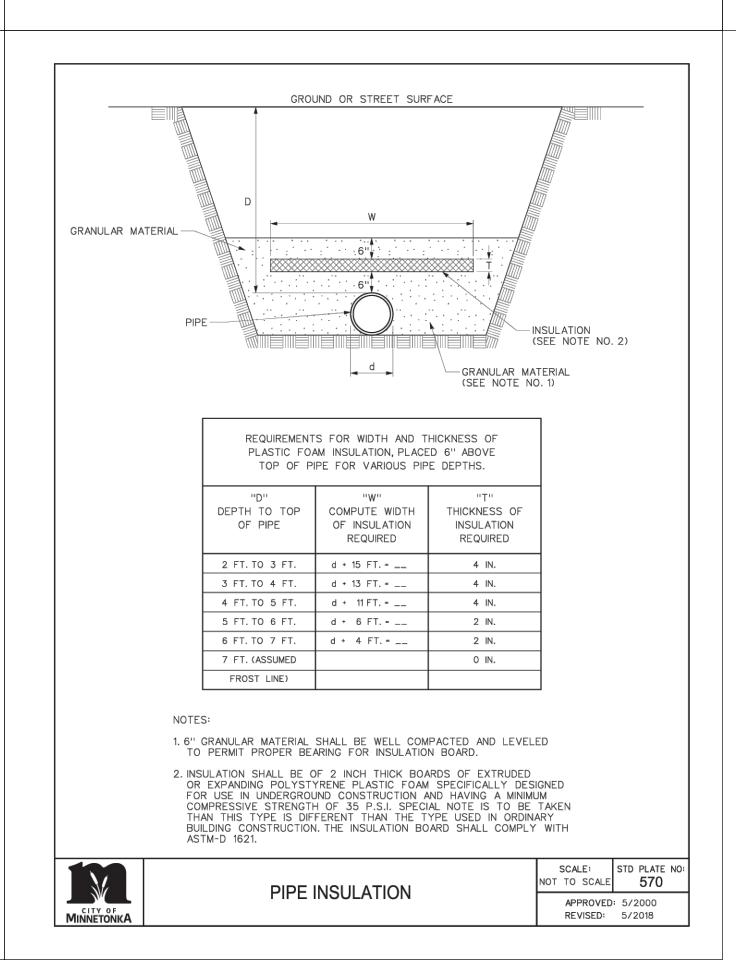












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John M. Molinaro Reg. No. <u>458</u>31

___ Date 3-15-2024

Revisions

3-15-24 JMM Designed MSN/PDS

DETAILS

MINNETONKA

NORTON HOMES 18215 45TH AVENUE NORTH PLYMOUTH, MINNESOTA 55446

APPROVED: 5/2000

REVISED: 8/2018

WOODHAVEN MINNETONKA, MINNESOTA 01-ENG-123127-SHEET-DTLS

9.12 of 22

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

TO COMPLY WITH THE GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY

THE FULL STORMWATER MANAGEMENT PLAN IS A SEPARATE DOCUMENT AVAILABLE UPON REQUEST

CONSTRUCTION ACTIVITY INFORMATION

PROJECT NAME: WOODHAVEN PROJECT LOCATION: PLYMOUTH ROAD & AMY LN MINNETONKA, MINNESOTA 55305 HENNEPIN COUNTY

LATITUDE/LONGITUDE: 44.957108, -93.440969

TOTAL PROJECT AREA DISTURBED: 2.4_ACRES TOTAL EXISTING IMPERVIOUS AREA: 0.5 ACRES TOTAL PROPOSED IMPERVIOUS AREA: 1.0 ACRES

RECEIVING WATERS:

MINNEHAHA CREEK

DATES OF CONSTRUCTION:

CONSTRUCTION START DATE APRIL 1, 2024 EST. COMPLETION DATE: SEPTEMBER 1, 2024

CONTACT INFORMATION

PROJECT OWNER NORTON HOMES FIRST LASTNAME - TITLE 18215 45TH AVENUE NORTH PLYMOUTH, MN 55446 PHONE $\times \times \times - \times \times \times - \times \times \times \times$ EMAIL: XXX@XXXXXXXXXXX.COM

CONTRACTOR:

NAME - TITLE XXX STREET City, State Zip PHONE XXX-XXX-XXXX EMAIL: XXX@XXXXXXXXXXX.COM

GENERAL CONSTRUCTION PROJECT INFORMATION

THE CONSTRUCTION OF NEW ROADWAYS, STREET A, AND 5 LOTS FOR RESIDENTIAL DEVELOPMENT. THIS CONSTRUCTION WILL COMPLETE GRADING. INSTALLATION OF SANITARY SEWER, WATERMAIN, STORM SEWER, CONCRETE CURB AND GUTTER, BITUMINOUS SURFACING, STREET LIGHTING, LANDSCAPING, EROSION CONTROL, AND TURF ESTABLISHMENT.

BASED ON THE SOIL BORINGS THAT WERE RETRIEVED FROM THE SITE, SOILS ENCOUNTERED ON SITE ARE SANDY LEAN CLAY, AND CLAYEY SAND.

GENERAL SITE INFORMATION (III.A)

- 1. THE PROJECT IS REQUIRED TO MEET THE CONSTRUCTION STORMWATER REQUIREMENTS FOR THE NPDES GENERAL STORMWATER PERMIT AND MNDOT SPEC. 1717, 2573, AND 2575.
- 2. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH MNDOT GENERAL CONDITIONS 2573 TO BE INSPECTED BY THE CITY PRIOR TO STARTING ANY CONSTRUCTION OPERATION THAT MAY CAUSE ANY SEDIMENTATION OR SILTATION AT THE SITE.
- 3. LOCATIONS, TYPE AND QUANTITY OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES CAN BE FOUND WITHIN THE CONSTRUCTION PLANS.
- 4. THE PROJECT IS LOCATED WITHIN 1 MILE AND FLOWS TO AN IMPAIRED WATER BODY. THEREFORE, THE PROJECT WILL NEED TO STABILIZE ALL EXPOSED SOILS NO LATER THAN 7 DAYS. DITCHES OR RAVINES THROUGHOUT THE PROJECT THAT ARE DISTURBED SHALL BE STABILIZED WITHIN 24 HOURS.
- 5. THE PROJECT IS LOCATED WITH 1 MILE AND FLOWS TO AN IMPAIRED WATER BODY. THEREFORE, TEMPORARY SEDIMENT BASINS ARE NEEDED FOR DRAINAGE AREAS OF 5 ACRES OR MORE FLOWING TO A COMMON LOCATION.
- 6. THE CONTRACTOR SHALL INSTALL ADDITIONAL BMP'S AS NECESSARY TO PREVENT SEDIMENT TRANSPORT PER PERMIT REQUIREMENTS
- 7. INLET PROTECTION, SILT FENCE AND BIOROLLS SHALL BE INSTALLED IN THE FIELD AS SHOWN ON THE PLANS AS DIRECTED BY THE ENGINEER.
- 8. PERMIT COVERAGE FOR THIS PROJECT CANNOT BE ISSUED UNTIL ALL OF THE REQUIREMENTS OF SECTION 22 OF THE GENERAL STORMWATER PERMIT WITH REGARDS TO WETLAND PERMITTING, DECISIONS, AND MITIGATIVE SEQUENCING HAVE BEEN FINALIZED AND DOCUMENTED.

THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

- INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE
- 2. INSTALLATION OF SILT FENCE AROUND SITE
- INSTALL DOUBLE SILT FENCE AROUND WETLAND AREAS
- 4. INSTALL ORANGE CONSTRUCTION FENCING AROUND INFILTRATION AREAS.
- 5. CLEAR AND GRUB FOR TEMPORARY SEDIMENT BASIN/POND INSTALL. 6. CONSTRUCT TEMP PONDS - CAN USE PROPOSED BASINS AS TEMP PONDS
- CLEAR AND GRUB REMAINDER OF SITE
- 8. STRIP AND STOCKPILE TOPSOIL
- 9. ROUGH GRADING OF SITE
- 10. STABILIZE DENUDED AREAS AND STOCKPILES
- 11. INSTALL SANITARY SEWER, WATER MAIN, STORM SEWER AND SERVICES 12. INSTALL SILT FENCE/INLET PROTECTION AROUND CB'S
- 13. INSTALL STREET SECTION
- 14. INSTALL CURB AND GUTTER
- 15. BITUMINOUS ON STREETS
- 16. INSTALL SMALL UTILITIES (GAS, ELECTRIC, PHONE, CABLE, ETC.)
- 17. FINAL GRADE BOULEVARD, INSTALL SEED AND MULCH
- 18. REMOVE ACCUMULATED SEDIMENT FROM BASIN/POND
- 19. FINAL GRAD POND/INFILTRATION BASINS (DO NOT COMPACT SOILS IN INFILTRATION AREAS.)
- 20. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOD/LANDSCAPING, REMOVE SILT FENCE AND RESEED AREAS DISTURBED BY THE REMOVAL.

ENVIRONMENTALLY SENSITIVE AREAS:

WETLANDS - THERE ARE NO IMPACTS TO WETLANDS PER SECTION 22 OF THE PERMIT. SEE ATTACHED WETLAND PLAN.

SPECIAL AND IMPAIRED WATERS — MINNEHAHA CREEK IMPAIRMENT(S): BENTHIC MACROINVERTEBRATES BIOASSESSMENTS. CHLORIDE, DISSOLVED OXYGEN, FECAL COLIFORM, FISH BIOASSESSMENTS

TMDL - THERE ARE ESTABLISHED TMDL PLANS FOR CHLORIDE, FECAL COLIFORM.

SCIENTIFIC OR NATURAL AREAS — THERE ARE NO SNA WITHIN 1 MILE OF THE PROJECT.

KARST AREA - THE PROJECT IS NOT LOCATED WITHIN A KARST AREA.

CALCAREOUS FENS - THE PROJECT DOES NOT DISCHARGE TO A FEN.

PI NEER engineering

2422 Enterprise Drive Fax: 681-9488 Mendota Heights, MN 55120 www.pioneereng.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer Reg. No. 45831 under the laws of the State of Minnesota

John M. Molinaro Date_10-27-2023

12-07-2023 City/County/Watershed Comments 2-14-2023 City Comments -2-2024 City Comments -2024 City Comment

TRAINING (21.1)

THE PERMIT.

SWPPP DESIGNER

SWPPP INSTALLER

SWPPP INSPECTOR

THE CONTRACTÒR SHÁLL ENSURE THAT THE TRAINING REQUIREMENTS IN PART 21.1 OF THE GENERAL STORMWATER

BEFORE THE START OF CONSTRUCTION OR AS SOON AS PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED.

COMPANY

PERMANENT STORMWATER MANAGEMENT SYSTEM (15.1

CALCULATIONS DETAILING THE BASINS ARE AVAILABLE UPON REQUEST.

ACTIVITIES. THESE BMPS SHALL BE INSPECTED BY THE CITY OF MINNETONKA

BMP SELECTION & STORMWATER MANAGEMENT (7.1)

INSPECTED AND MAINTAINED. PER SECTION 11 OF THE PERMIT.

WEAVE WITH A NON-WELDED, MOVABLE JOINTED NETTING.

OR WETLANDS THROUGHOUT THE COURSE OF CONSTRUCTION.

EROSION PREVENTION PRACTICES (8.1)

CONSTRUCTION STAKING.

POSSIBLE DURING CONSTRUCTION.

GREATER THAN 2 PERCENT

7.2. REMAINING DITCH OR SWALE

7.3. PIPE AND CULVERT OUTLETS

FINE GRADING.

PLANS.

7.4. EXPOSED SOIL AND STOCKPILES

SEDIMENT CONTROL PRACTICES (9.1)

PERMIT FOR CONSTRUCTION ACTIVITY ARE COMPLIED WITH. THE INDIVIDUALS TRAINED WILL BE RECORDED IN THE SWPPP

PROVIDE INFORMATION IN THE SPACE PROVIDED BELOW FOR ADDITIONAL PERSONNEL ON THE PROJECT AS REQUIRED BY

1. THE PROJECT WILL CREATE A NEW CUMULATIVE IMPERVIOUS SURFACE GREATER THAN OR EQUAL TO ONE ACRE. THE

THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE BMPS IDENTIFIED IN THIS PLAN IN AN APPROPRIATE AND

FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED

ENGINEERING PRACTICES TO MINIMIZE THE DISCHARGE OF POLLUTANTS IN STORMWATER FROM CONSTRUCTION

2. THE CONTRACTOR SHOULD CONSTRUCT TEMPORARY OR PERMANENT WET SEDIMENTATION BASINS IDENTIFIED IN THIS

3. THE CONTRACTOR MUST PHASE CONSTRUCTION SO TO LIMIT DISTURBED LAND TO AREAS THAT CAN BE EFFECTIVELY

ENCOURAGED TO USE PRODUCTS THAT HAVE BEEN SHOWN TO MINIMIZE IMPACTS ON WILDLIFE. THE U.S. FISH &

THE CONTRACTOR SHALL PHASE THE WORK TO LIMIT THE OVERALL DISTURBANCE OF THE PROJECT AT ANY GIVEN

TIME. NATURAL VEGETATIVE BUFFERS SHALL BE MAINTAINED BETWEEN THE WORK LIMITS AND ALL SURFACE WATERS

4. TEMPORARY COVER SHALL BE PROVIDED USING TEMPORARY SEED WITH EROSION CONTROL BLANKET OR HYDROMULCH.

PERMANENT COVER SHALL BE PROVIDED AS DETAILED ON THE CONSTRUCTION PLANS USING SEED WITH EROSION

POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED

PERMANENTLY CEASES ON A PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAMES LISTED.

7 DAYS

24 HOURS

7 DAYS

1. SILT FENCE AND ALL OTHER DOWN GRADIENT PERIMETER CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED BY

2. EROSION CONTROL BLANKET AND BIOROLLS SHALL BE PLACED WITHIN THE DITCH BOTTOMS WITHIN 24 HOURS AFTER

3. PRIOR TO STOCKPILING SOIL, SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE NED TO BE INSTALLED.

BMP APPROVED BY THE ENGINEER IN THE FIELD PLACED AROUND THE BASE OF THE STOCKPILE.

BUFFER IS NOT FEASIBLE, WHEN THE CONSTRUCTION IS WITHIN 50 FEET OF A SURFACE WATER.

STOCKPILES LOCATED ON SITE SHALL BE SEEDED, MULCHED OR BLANKETED AND HAVE SILT FENCE OR A

4. MAINTAIN A 50-FOOT NATURAL BUFFER DOWN GRADIENT OF THE SITE OR REDUNDANT SEDIMENT CONTROLS IF

5. MINIMIZE SOIL COMPACTION BY NOT DISTURBING AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS

6. CONTRACTOR SHALL USE STREET SWEEPING IN ADDITION TO VEHICLE TRACKING BMPS IF THESE BMPS ALONE ARE

7. ANY SEDIMENT CONTROL PRACTICE USING SOIL IMPLEMENTED BY THE CONTRACTOR SHALL BE TEMPORARILY OR

NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. PRESERVE ALL NATURAL BUFFERS

SHOWN ON THE PLANS. NO HEAVY CONSTRUCTION EQUIPMENT ALLOWED IN FILTRATION OR INFILTRATION AREAS PER

6. THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL EROSION PREVENTION MEASURES NECESSARY FOR

7. STABILIZATION TIME FRAMES — INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION TEMPORARILY OR

7.1. LAST 200 LINEAL FEET OF DITCH OR SWALE 24 HOURS OF CONNECTION TO SURFACE WATERS

PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SECTION WITH A CONTINUOUS SLOPE OF

WILDLIFE SERVICE RECOMMENDS USING TYPES OF NETTING PRACTICES THAT ARE CONSIDERED "WILDLIFE FRIENDLY."

INCLUDING THOSE THAT USE NATURAL FIBER OR 100 PERCENT BIODEGRADABLE MATERIALS AND THAT USE A LOOSE

4. ALL EROSION CONTROL NETTING USED ON THE SITE AS PART OF THE SOIL STABILIZATION TECHNIQUES, ARE

2. THE AREAS NOT TO BE DISTURBED WILL BE DELINEATED THROUGH THE USE OF SILT FENCE. BIOROLLS AND

3. THE CONTRACTOR SHALL MAINTAIN A NATURAL, VEGETATED BUFFER ADJACENT TO THE WETLANDS WHEREVER

CONTROL BLANKET OR HYDROMULCH. PERMITTEES MUST NOT USE MULCH. HYDROMULCH. TACKIFIER.

CONFORMANCE TO THE NPDES CONSTRUCTION PERMIT THROUGHOUT CONSTRUCTION.

THE CITY OF MINNETONKA PRIOR TO ANY LAND DISTURBANCE ACTIVITY.

NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET.

PERMANENTLY STABILIZED WITHIN 24 HOURS OF INSTALLATION.

PLAN (WHEN REQUIRED, SEE SECTION 14 AND 15) AS A FIRST STEP IN CONSTRUCTION AND STORMWATER ROUTED TO

PROJECT PROPOSES TO CONSTRUCT A STORMWATER TREATMENT SYSTEM TO COLLECT RUNOFF TO BE DISCHARGED

OFFSITE. TREATMENT FOR THE RUNOFF IS TO BE EXECUTED BY THE PROPOSED STORMWATER MANAGEMENT SYSTEM.

CERTIFICATION

10-27-23 JMM Designed MSN/PDS STORM WATER POLLUTION PREVENTION PLAN

NORTON HOMES 18215 45TH AVENUE NORTH PLYMOUTH, MINNESOTA 55446

MINNETONKA, MINNESOTA

DEWATERING AND BASIN DRAINING (10.1) 1. DEWATERING IS NOT ANTICIPATED ON THIS PROJECT. HÓWEVER, IF DEWATERING IS NECESSARY, THE CONTRACTOR SHALL SUBMIT

PLAN TO THE ENGINEER FOR ACCEPTANCE.

2. IF DEWATERING IS NECESSARY, IT MUST NOT CAUSE NUISANCE CONDITIONS IN SURFACE WATERS FROM DEWATERING AND BASIN DRAINING DISCHARGE.

3. IF THE DEWATERING OR PUMPING PROCESS IS TURBID OR CONTAINS SEDIMENT LADEN WATER, IT MUST BE TREATED THROUGH THE USE OF A SEDIMENT CONTROL (TRAPS, VEGETATIVE FILTER STRIPS, FLOCCULANTS OR OTHER SEDIMENT REDUCING MEASURES) SUCH THAT DISCHARGE DOES NOT VISIBLY CONTAIN MORE TURBIDITY THAN THE RECEIVING WATER.

4. WHEN POSSIBLE, USE WELL VEGETATED (EG. GRASSY OR WOODED) UPLAND AREAS ON THE SITE TO INFILTRATE DEWATERING WATERS BEFORE DISCHARGED OFF SITE.

DISCHARGE DIRECTLY INTO A SURFACE WATER OR WETLAND IS NOT PERMITTED. RECEIVING WATERS CANNOT BE USED AS PART OF THE TREATMENT AREA.

6. ALL CONSTRUCTION DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO THE RECEIVING WATER. THE DEWATERING PLAN SHALL BE DEVELOPED AND SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH MNDOT SPEC. 1717.2E.

7. CONDITIONS OF THE SITE MAY REQUIRE A PERMIT TO BE OBTAINED FROM THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES FOR WATER APPROPRIATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS FOR DEWATERING.

8. THE DISCHARGE POINT OF DEWATERING WATERS SHOULD BE VISUALLY INSPECTED AND PHOTOGRAPHED AT THE BEGINNING OF OPERATION AND AT LEAST ONCE EVERY 24 HOURS OF OPERATION TO ENSURE EXCESS TURBIDITY IS NOT BEING RELEASED TO THE RECEIVING WATERS.'

9. IF NUISANCE CONDITIONS RESULT FROM THE DISCHARGE, PERMITTEES MUST CEASE DEWATERING IMMEDIATELY AND CORRECTIVE ACTIONS MUST OCCUR BEFORE DEWATERING IS RESUMED. NUISANCE CONDITIONS INCLUDES, BUT IS NOT LIMITED TO, A SEDIMENT PLUME IN THE DISCHARGE OR THE DISCHARGE APPEARS CLOUDY, OR OPAQUE, OR HAS A VISIBLE CONTRAST, OR HAS A VISIBLE OIL FILM. OR HAS AQUATIC HABITAT DEGRADATION THAT CAN BE IDENTIFIED BY AN OBSERVER.

INSPECTIONS AND MAINTENANCE (11.1)

1. THE CONTRACTOR SHALL IDENTIFY A CERTIFIED EROSION AND SEDIMENT CONTROL SUPERVISOR TO CONDUCT INSPECTIONS FOR THE

2. THE CONSTRUCTION SITE SHALL BE OBSERVED AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS AND 7 DAYS AFTER THAT. PER SECTION 11.11 THE INSPECTION CAN BE ADJUSTED AS FOLLOW:

• AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE A MONTH

SITES WITH PERMANENT COVER AND NO CONSTRUCTION ACTIVITY CAN BE REDUCED TO ONCE A MONTH

• WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTION MAY BE SUSPENDED AND RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING

3. WHEN SEDIMENT IS OBSERVED UP TO APPROXIMATELY ONE—THIRD OF THE HEIGHT OF SILT FENCE, SEDIMENT SHALL BE REMOVED. SILT FENCE WILL BE REPLACED. OR SUPPLEMENTED IF IT BECOMES NON-FUNCTIONAL.

4. THE CITY OF MINNETONKA IS RESPONSIBLE TO MAINTAIN PERMANENT BMP'S

5. DURING EACH INSPECTION THE FOLLOWING SHALL BE OBSERVED:

ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S AND POLLUTION PREVENTION MEASURES.

• SURFACE WATERS - INCLUDING DITCHES AND CONVEYANCE SYSTEMS NEED TO BE OBSERVED FOR EROSION AND SEDIMENT.

• CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES.

• INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION. • INFILTRATION AREAS FOR SIGNS OF SEDIMENT DEPOSITION AND COMPACTION (TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN

ACROSS THE AREA).

7. RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. INCLUDE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY:

DATE AND TIME OF INSPECTIONS

NAME OF PERSONS CONDUCTING INSPECTIONS

• FINDINGS OF INSPECTIONS WITH PHOTOGRAPHS AND RECOMMENDATIONS FOR CORRECTIVE ACTIONS

• CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS

DOCUMENT AND DISCHARGES, DEWATERING OPERATIONS AND NUISANCE CONDITIONS WITH PHOTOGRAPHS.

DOCUMENTS AND CHANGES MADE TO THE SWPPP

8. REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY

UNLESS LISTED DIFFERENTLY BELOW: A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT

REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE

HEIGHT AND/OR DEPTH OF THE DEVICE. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED

1/2 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND

OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY, PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS, CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET

SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO

F. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

POLLUTION PREVENTION MANAGEMENT MEASURES (12.1)

ALL WORK NECESSARY TO PROVIDE PROPER POLLUTION PREVENTION MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. 1. COLLECTED SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, AND OTHER WASTE MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.

2. CONSTRUCTION MATERIALS NEED TO BE COVERED TO MINIMIZE STORMWATER INTERACTION UNLESS MATERIAL IS NOT A POTENTIAL SOURCE OF STORMWATER CONTAMINATION.

3. OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGES. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

4. EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES IS NOT ALLOWED ON SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.

5. ALL LIQUID AND SOLID WASTE GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER THE GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTE MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

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WOODHAVEN

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- 5. ANY SPILLS OF HAZARDOUS MATERIALS AND/OR A MINIMUM OF 5-GALLONS PETROLEUM SHALL BE IMMEDIATELY REPORTED TO THE MPCA (STATE DUTY OFFICER: 1.800.422.0798 OR 651.297.8610). ANY SPILLS ABOVE THE REPORTABLE QUANTITIES LIMITS IN THE CODE OF FEDERAL REGULATIONS (CFR) TITLE 40, PART 302 SHALL BE REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1.800.424.8802). IN ORDER TO REDUCE THE RISK OF HAZARDOUS MATERIALS COMING INTO CONTACT WITH STORM WATER, THE FOLLOWING PRACTICES WILL BE FOLLOWED: A) AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE WORK, B) ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER COVER, C) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL UNLESS THE ORIGINAL CONTAINER CANNOT BE RESEALED, IN WHICH CASE THE ORIGINAL LABEL AND MATERIALS SAFETY DATA SHALL BE RETAINED, D) SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER, E) WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED BEFORE DISPOSING OF THE CONTAINER, F) THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED, AND G) THE OPERATOR WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- 6. ALL SANITARY WASTE WILL BE COLLECTED BY TEMPORARY SANITARY FACILITIES PROVIDED AT THE SITE BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROJECT. ALL CONSTRUCTION PERSONNEL SHALL UTILIZE TEMPORARY SANITARY FACILITIES, WHICH SHALL BE REGULARLY SERVICE BY A COMMERCIAL OPERATOR. TEMPORARY SANITARY FACILITIES SHALL BE PLACED IN A LOCATION WHERE ACCIDENTAL SPILLAGE OF THE FACILITY SHALL NOT DISCHARGE TO THE STORM SEWER SYSTEM.

TEMPORARY SEDIMENTATION BASINS (14.2)

- TEMPORARY SEDIMENTATION BASINS ARE REQUIRED WHERE 10 OR MORE ACRES DRAIN TO A COMMON LOCATION TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS. WHEN A CONSTRUCTION SITE DISCHARGES TO AN IMPAIRED WATER BODY, TEMPORARY SEDIMENTATION BASINS ARE REQUIRED WHERE 5 OR MORE ACRES DRAIN TO A COMMON LOCATION. TEMPORARY SEDIMENTATION BASINS CAN BE CONVERTED TO PERMANENT BASINS AFTER CONSTRUCTION IS COMPLETE.
- 2. THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR, 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEVER IS GREATER. WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORARY BASIN MUST PROVIDE 3,600 CUBIC FEET OF LIVE STORAGE PER ÀCRE OF THE BASINS DRAINAGE AREA.
- PERMITTEES MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE DISCHARGE OF POLLUTANTS. PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANISM DURING FROZEN CONDITIONS. THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF POND INTEGRITY. PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.
- 4. WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF THE ABOVE IS INFEASIBLE, PERMITTEES MUST INSTALL EFFECTIVE SEDIMENT CONTROLS SUCH AS SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS, SILT FENCES, VEGETATIVE BUFFER STRIPS OR ANY APPROPRIATE COMBINATION OF MEASURES AS DICTATED BY INDIVIDUAL SITE CONDITIONS. IN DETERMINING WHETHER INSTALLING A SEDIMENT BASIN IS INFEASIBLE, PERMITTEES MUST CONSIDER PUBLIC SAFETY AND MAY CONSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE. PERMITTEES MUST DOCUMENT THIS DETERMINATION OF INFEASIBILITY IN THE SWPPP.

FINAL STABILIZATION (4.1)

- 1. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE CONSTRUCTION PLANS. METHODS TO ACHIEVE FINAL STABILIZATION INCLUDE: SEED WITH MULCH OR EROSION CONTROL BLANKET AND SOD.
- 2. ALL AREAS SEEDED BY MEANS OF BROADCAST SEEDING SHALL BE HAND RAKED TO INCORPORATE THE SEEDS INTO THE TOPSOIL.
- 3. EROSION CONTROL BLANKETS SHALL BE PLACED IN THE DITCH BOTTOM WITHIN 24 HOURS AFTER FINE GRADING. BIOROLLS SHALL BE PLACED IN CONJUNCTION WITH THE BLANKET IN THE DITCH BOTTOMS. THE BIOROLLS ARE INTENDED TO SERVE AS PERMANENT DITCH CHECKS.
- 4. THE PERMITTEE WILL SUBMIT A NOTICE OF TERMINATION (NOT) WITHIN 30 DAYS AFTER FINAL STABILIZATION. FINAL STABILIZATION SHALL CONSIST OF A UNIFORM PERENNIAL VEGETATIVE COVER OF AT LEAST 70 PERCENT OF THE EXPECTED FINAL VEGETATIVE GROWTH DENSITY OR OTHER PERMANENT COVER HAS BEEN ESTABLISHED OVER THE ENTIRE PERVIOUS SURFACES.
- 5. PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER.

PERMIT TERMINATION CONDITIONS (13.1)

- PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTING THE NOTICE OF TERMINATION (NOT). VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION. SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.
- 2. FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE LOT IS SOLD TO THE HOMEOWNER, STRUCTURES ARE FINISHED, AND PERMANENT COVER HAS BEEN ESTABLISHED. FOR LOTS THAT ARE SOLD TO THE HOMEOWNER WHERE PERMANENT COVER HAS NOT BEEN ESTABLISHED, COVERAGE TERMINATES IF TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS PROPERLY INSTALLED, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER.
- WHEN SUBMITTING THE NOT PERMITTEES MUST INCLUDE EITHER GROUND OR AERIAL PHOTOGRAPHS SHOWING THE REQUIREMENTS OF 13.2 HAVE BEEN MET. PERMITTEES ARE NOT REQUIRED TO TAKE PHOTOGRAPHS OF EVERY DISTINCT PART OF THE SITE, HOWEVER THE CONDITIONS PORTRAYED MUST BE SUBSTANTIALLY SIMILAR TO THOSE AREAS THAT ARE NOT PHOTOGRAPHED. PHOTOGRAPHS MUST BE CLEAR AND IN FOCUS AND MUST INCLUDE THE DATE THE PHOTO WAS TAKEN.

RECORDS RETENTION (5.1&6.1)

- RECORDS MUST BE KEPT ON SITE IN A PHYSICAL OR ELECTRONIC FORMAT DURING NORMAL WORKING HOURS WITH PERSONNEL WHO HAVE OPERATIONAL CONTROL OVER THE APPLICABLE PORTION OF THE SITE. THESE RECORDS MUST INCLUDE: A. COPY OF THE SWPPP AND AMENDMENTS B. TRAINING DOCUMENTATION
- C. INPSECTION AND MAINTENANCE RECORDS
- 2. THIS SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. ANY CHANGES TO THE SWPPP SHALL BE NOTED BELOW AND ON THE APPLICABLE PLAN SHEETS. ANY AMENDMENTS TO THE SWPPP MUST BE INCORPORATED WITHIN 7 DAYS TO INCLUDE ADDITIONAL OR MODIFIED BMPS.
- 3. THE CONTRACTOR WILL RECORD CHANGES TO THE SWPPP AND MAINTAIN DOCUMENTATION OF THESE CHANGES ON SITE AT ALL TIMES. A SUMMARY MAINTENANCE/CONSTRUCTION OBSERVATION REPORT WILL BE RECORDED AFTER EACH SITE INSPECTION/OBSERVATION.
- 4. THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN AND REPAIR THE EROSION AND SEDIMENT CONTROL BMP'S UNTIL FINAL STABILIZATION IS COMPLETE AND A NOTICE OF TERMINATION (NOT) IS SUBMITTED.

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|-----------------|-----------------|----------------|---------------------|
| CIVIL ENGINEERS | I AND DI ANNERS | LAND SURVEYORS | LANDSCAPE ARCHITECT |

(651) 681-1914 2422 Enterprise Drive Fax: 681-9488 Mendota Heights, MN 55120 www.pioneereng.com

I hereby certify that this plan 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

John M. Molinaro Date 10-27-2023 Reg. No. 45831

12-07-2023 City/County/Watershed Comments 2-14-2023 City Comments -2-2024 City Comments 5-2024 City Comments

10-27-23

Designed

STORM WATER POLLUTION PREVENTION PLAN

NORTON HOMES 18215 45TH AVENUE NORTH PLYMOUTH, MINNESOTA 55446

WOODHAVEN MINNETONKA, MINNESOTA 00-ENG-123127-SHEET-SWPPP S2 of 24

| ROCK CONSTRUCTION ENTRANCE MAINTENANCE | ĽΑ | |
|--|----|------|
| EROSION CONTROL FENCE | LF | 4188 |
| MAINTENANCE OF PERIMETER EROSION CONTROL | YR | 1 |
| BIOROLL DITCH CHECK | EA | 0 |
| STREET SWEEPING AND VACUUMING | YR | 1 |
| STORM DRAIN INLET PROTECTION | EA | 6 |
| TEMPORARY SEED AND MULCH | AC | 2.6 |
| PERMANENT SEED AND MULCH | AC | 2.4 |
| MAINTAIN SEED AND MULCH | AC | 2.4 |
| EROSION CONTROL BLANKET (MNDOT CAT. 20) | SY | 210 |
| VEHICLE AND EQUIPMENT CLEANING | LS | 1 |
| VEHICLE AND EQUIPMENT FUELING | LS | 1 |
| VEHICLE AND EQUIPMENT MAINTENANCE | LS | 1 |
| SPILL PREVENTION AND CONTROL | LS | 1 |
| ROCK BERM EROSION CONTROL | LS | 1 |
| RIP RAP ENERGY DISSIPATOR | CY | 22.4 |
| INDIVIDUAL LOT HOME CONSTRUCTION EROSION CONTROL | ΕA | 5 |

ITEM DESCPRIPTION

ROCK CONSTRUCTION FNTRANCE MAINTENANCE

CONSTRUCTION LIMIT STAKING

ROCK CONSTRUCTION ENTRANCE

| AMENDMENT | BY | DATE |
|-----------|----|------|
| | | |
| | | |
| | | |

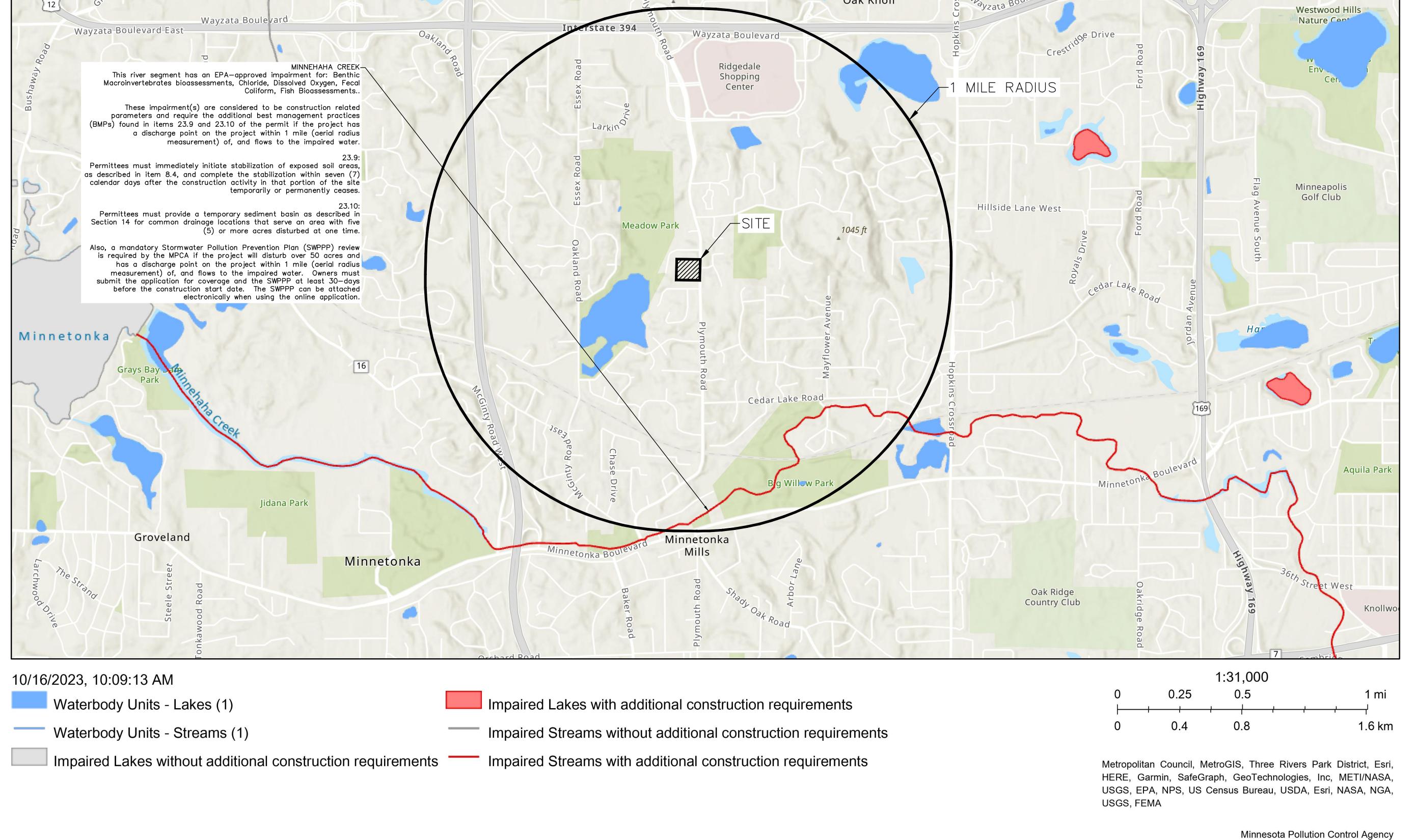
ESTIMATED QUANTITY

2871

ΙF

 $\vdash \Delta$

MPCA's Construction Stormwater Special Waters Search Oak Knoll Wayzata Boulevard Ridgedale MINNEHAHA CREEK-Shopping MILE RADIUS Center



Esri, NASA, NGA, USGS, FEMA | Esri Community Maps Contributors, Metropolitan Council, MetroGIS, Three Rivers Park District, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau; MNDoT; | Minnesota Pollution Control

PI NEER engineering

Fax: 681-9488 www.pioneereng.com

I hereby certify that this plan 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

John M. Molinaro Date 10-27-2023 . 12-07-2023 City/County/Watershed Comments 2. 12-14-2023 City Comments

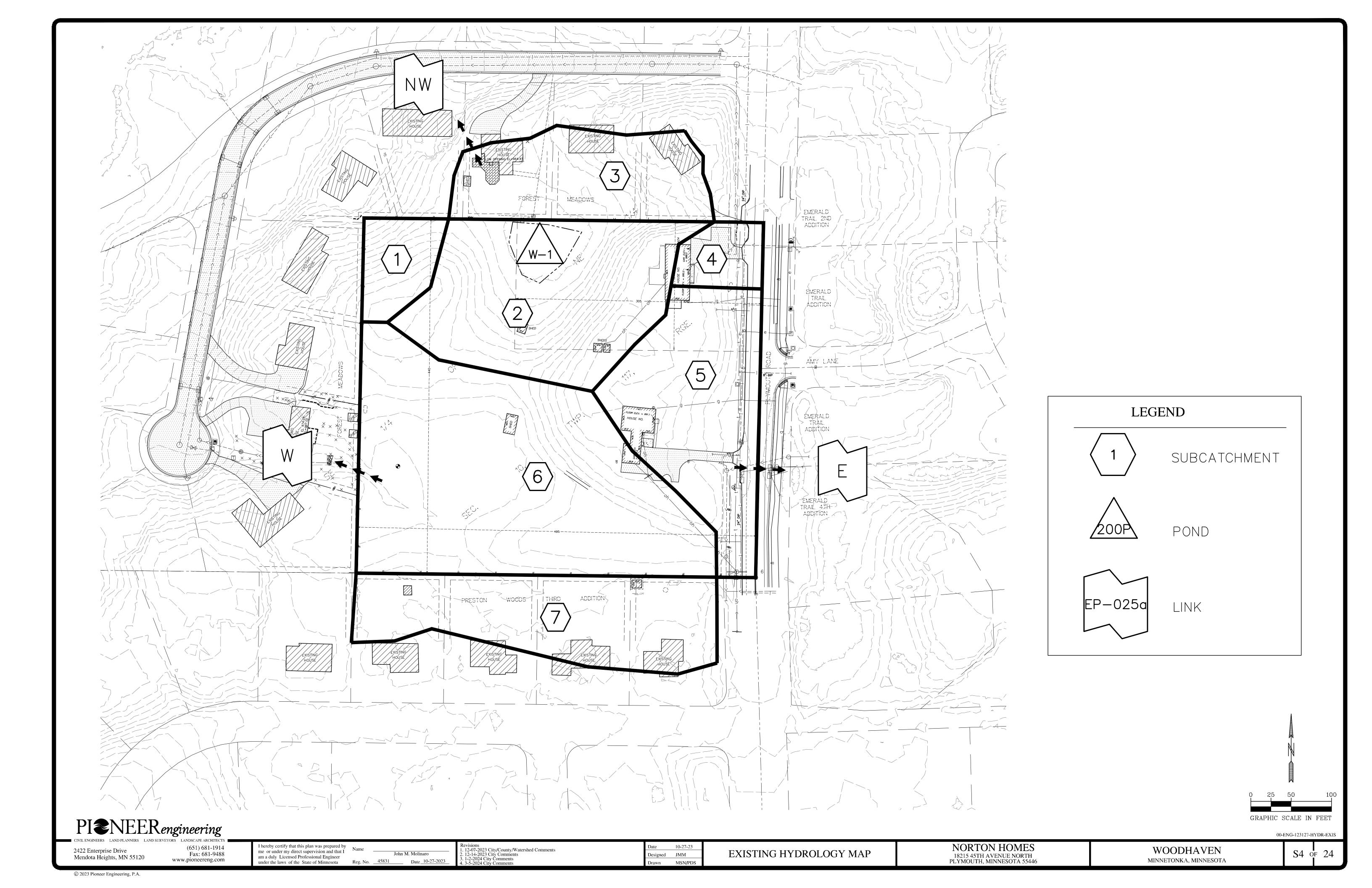
MPCA MAP

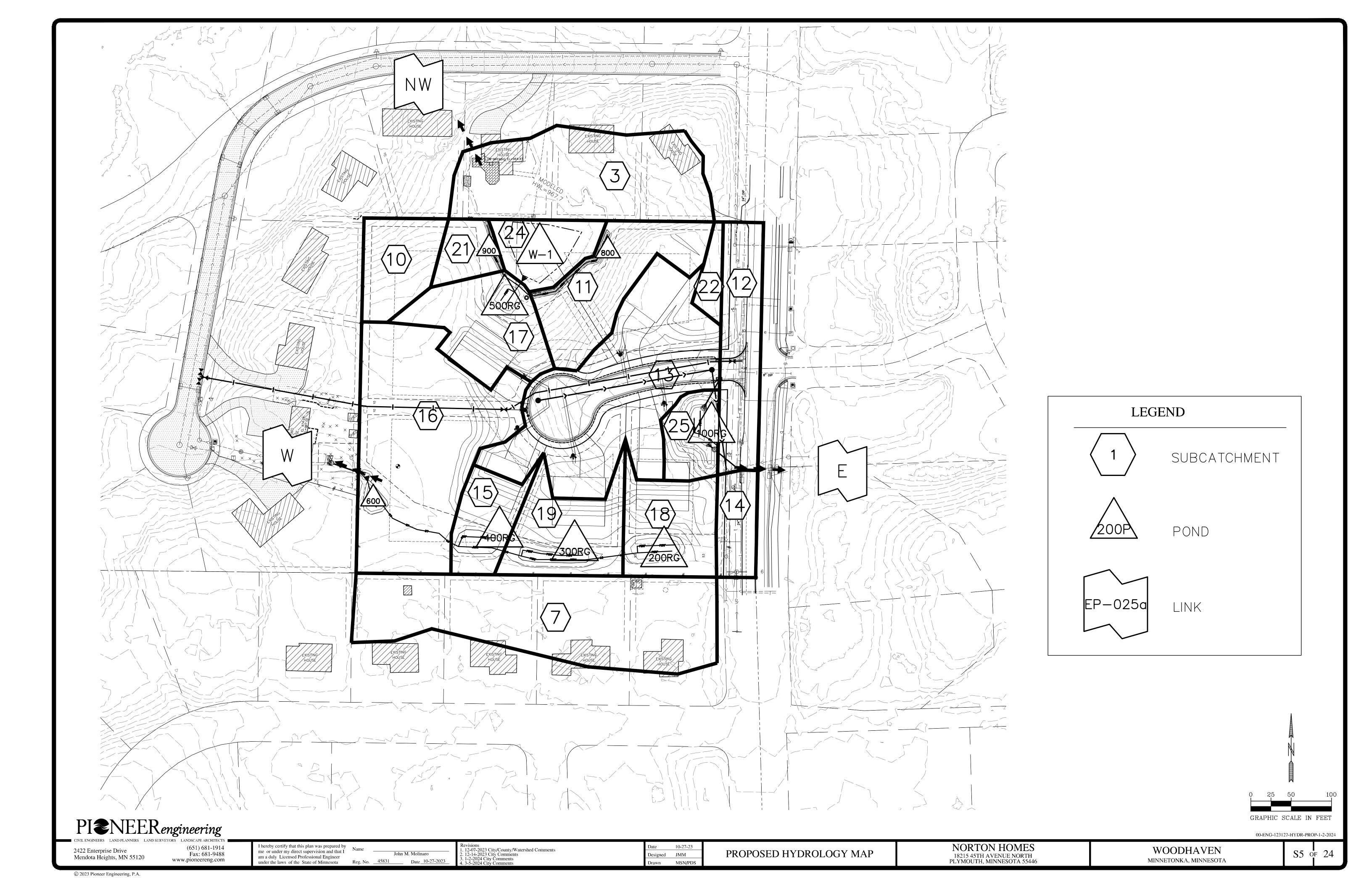
NORTON HOMES
18215 45TH AVENUE NORTH

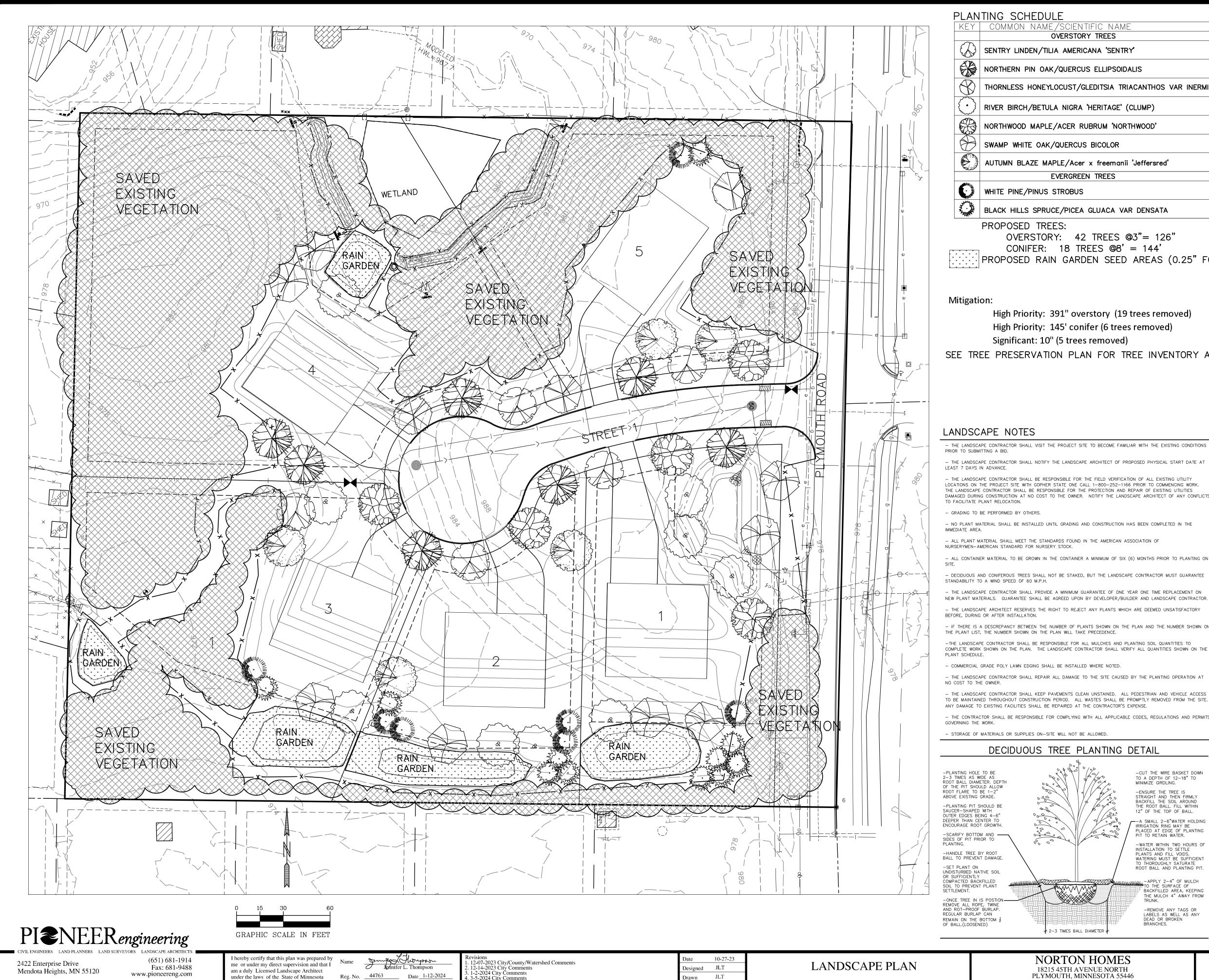
WOODHAVEN MINNETONKA, MINNESOTA 00-ENG-123127-SHEET-MPCA S3 of 24

Mendota Heights, MN 55120

2422 Enterprise Drive







PLANTING SCHEDULE

| KEY | COMMON NAME/SCIENTIFIC NAME | ROOT | QUANTI |
|---|---|---------|--------|
| | OVERSTORY TREES | | |
| | SENTRY LINDEN/TILIA AMERICANA 'SENTRY' | 3" B&B | 5 |
| | NORTHERN PIN OAK/QUERCUS ELLIPSOIDALIS | 3" B&B | 7 |
| | THORNLESS HONEYLOCUST/GLEDITSIA TRIACANTHOS VAR INERMIS | 3" B&B | 3 |
| | RIVER BIRCH/BETULA NIGRA 'HERITAGE' (CLUMP) | 14' B&B | 9 |
| | NORTHWOOD MAPLE/ACER RUBRUM 'NORTHWOOD' | 3" B&B | 5 |
| | SWAMP WHITE OAK/QUERCUS BICOLOR | 3" B&B | 8 |
| | AUTUMN BLAZE MAPLE/Acer x freemanii 'Jeffersred' | 3" B&B | 5 |
| | EVERGREEN TREES | | |
| Santa | WHITE PINE/PINUS STROBUS | 8' B&B | 7 |
| North Action | BLACK HILLS SPRUCE/PICEA GLUACA VAR DENSATA | 8' B&B | 11 |

PROPOSED TREES:

OVERSTORY: 42 TREES @3"= 126" CONIFER: 18 TREES @8' = 144'

PROPOSED RAIN GARDEN SEED AREAS (0.25" FOR EACH 1 SF OF SEED): 9,420 SF = 2,355"

Mitigation:

High Priority: 391" overstory (19 trees removed) High Priority: 145' conifer (6 trees removed)

Significant: 10" (5 trees removed)

SEE TREE PRESERVATION PLAN FOR TREE INVENTORY AND PRESERVATION DETAILS

NATIVE RAIN GARDEN SEED MIX MNDOT 34-262 OR NATIVE EQUIVALENT

LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.

THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 7 DAYS IN ADVANCE.

- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY LOCATIONS ON THE PROJECT SITE WITH GOPHER STATE ONE CALL 1-800-252-1166 PRIOR TO COMMENCING WORK. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.

- GRADING TO BE PERFORMED BY OTHERS.

- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE

- ALL PLANT MATERIAL SHALL MEET THE STANDARDS FOUND IN THE AMERICAN ASSOCIATION OF NURSERYMEN-AMERICAN STANDARD FOR NURSERY STOCK.

- ALL CONTAINER MATERIAL TO BE GROWN IN THE CONTAINER A MINIMUM OF SIX (6) MONTHS PRIOR TO PLANTING ON

- DECIDUOUS AND CONIFEROUS TREES SHALL NOT BE STAKED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE STANDABILITY TO A WIND SPEED OF 60 M.P.H.

- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ONE TIME REPLACEMENT ON NEW PLANT MATERIALS. GUARANTEE SHALL BE AGREED UPON BY DEVELOPER/BUILDER AND LANDSCAPE CONTRACTOR. - THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY

- IF THERE IS A DESCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE PLANT LIST, THE NUMBER SHOWN ON THE PLAN WILL TAKE PRECEDENCE.

-THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE WORK SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE

- COMMERCIAL GRADE POLY LAWN EDGING SHALL BE INSTALLED WHERE NOTED.

- THE LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SITE CAUSED BY THE PLANTING OPERATION AT NO COST TO THE OWNER.

TO BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD. ALL WASTES SHALL BE PROMPTLY REMOVED FROM THE SITE. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS

GOVERNING THE WORK.

DECIDUOUS TREE PLANTING DETAIL

-CUT THE WIRE BASKET DOWN

TO A DEPTH OF 12-18" TO MINIMIZE GIRDLING.

-ENSURE THE TREE IS STRAIGHT AND THEN FIRMLY BACKFILL THE SOIL AROUND THE ROOT BALL. FILL WITHIN

12" OF THE TOP OF BALL.

INSTALLATION TO SETTLE PLANTS AND FILL VOIDS.

-- A SMALL 2-6"WATER HOLDING IRRIGATION RING MAY BE

PLACED AT EDGE OF PLANTING PIT TO RETAIN WATER.

WATERING MUST BE SUFFICIENT TO THOROUGHLY SATURATE

ROOT BALL AND PLANTING PIT.

TO THE SURFACE OF
BACKFILLED AREA, KEEPING

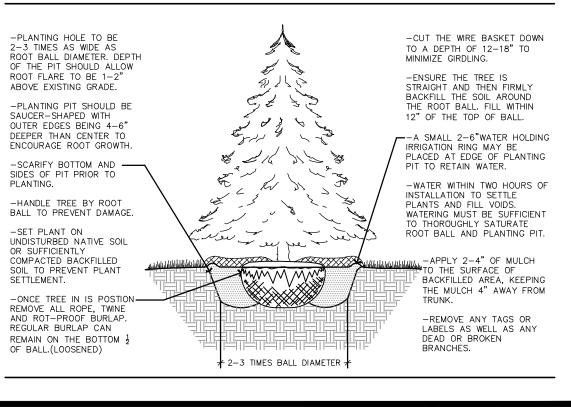
THE MULCH 4" AWAY FROM

LABELS AS WELL AS ANY DEAD OR BROKEN

-WATER WITHIN TWO HOURS OF

| Common Name | Scientific Name | Rate (kg/ha) | Rate (lb/ac) | % of Mix (% by wt) | Seeds sq ft |
|---|--|---------------------|-----------------|-----------------------|----------------|
| big bluestem | Andropogon gerardii | 1.12 | 1.00 | 6.89% | 3.6 |
| fringed brome | Bromus cilietus | 1.68 | 1.50 | 10.38% | 6.0 |
| bluejoint | Calamagrostis canadensis | 0.04 | 0.04 | 0.27% | 4.0 |
| Virginia wild rye | Elymus virginicus | 1.96 | 1.75 | 12.07% | 2.7 |
| tall manna grass | Glyceria grandis | 0.17 | 0.15 | 1.02% | 3.8 |
| fowl manna grass | Glyceria striata | 0.12 | 0.11 | 0.73% | 3.6 |
| switchgrass | Panicum virgatum | 0.84 | 0.75 | 5.16% | 3.8 |
| fowl bluegrass | Poe palustris | 0.22 | 0.20 | 1.39% | 9.6 |
| Indian grass | Sorghastrum nutans | 0.56 | 0.50 | 3.44% | 2.2 |
| prairie cordgrass | Spartina pectinata | 0.56 | 0.50 | 3.41% | 1.2 |
| | Total Grasses | 7.29 | 6.50 | 44.76% | 40.6 |
| wooly sedge | Carex pellita | 0.06 | 0.05 | 0.32% | 0.4 |
| tussock sedge | Cerex stricte | 0.02 | 0.02 | 0.17% | 0.4 |
| fox sedge | Carex vulpinoidea | 0.11 | 0.10 | 0.66% | 3.5 |
| dark green bulrush | Scirpus atrovirens | 0.11 | 0.10 | 0.72% | 17.7 |
| woolgrass | Scirpus cyperinus | 0.03 | 0.03 | 0.18% | 16.0 |
| | Total Sedges and Rushes | 0.34 | 0.30 | 2.05% | 38.1 |
| Canada anemone | Anemone canadensis | 0.03 | 0.03 | 0.21% | 0.0 |
| marsh milkweed | Asclepias incarnata | 0.09 | 0.08 | 0.55% | 0.1 |
| Canada tick trefoil | Desmodium canadense | 0.56 | 0.50 | 3.41% | 1.0 |
| flat-topped aster | Doellingeria umbellata | 0.06 | 0.05 | 0.34% | 1.2 |
| common boneset | Eupatorium perfoliatum | 0.03 | 0.03 | 0.23% | 2.0 |
| grass-leaved goldenrod | Euthamia graminifolia | 0.02 | 0.02 | 0.11% | 2.0 |
| spotted Joe pye weed | Eutrochium maculatum | 0.04 | 0.04 | 0.30% | 1.6 |
| autumn sneezeweed | Helenium autumnale | 0.06 | 0.05 | 0.35% | 2.3 |
| sawtooth sunflower | Helianthus grosseserratus | 0.06 | 0.05 | 0.38% | 0.3 |
| great blazing star | Liatris pycnostachya | 0.02 | 0.02 | 0.17% | 0.1 |
| great lobelia | Lobelia siphilitica | 0.01 | 0.01 | 0.05% | 1.4 |
| blue monkey flower | Mimulus ringens | 0.01 | 0.01 | 0.05% | 6.4 |
| Virginia mountain mint | Pycnanthemum virginianum | 0.09 | 0.08 | 0.55% | 6.5 |
| red-stemmed aster | Symphyotrichum puniceum | 0.09 | 0.08 | 0.56% | 2.4 |
| blue vervain | Verbena hastata | 0.17 | 0.15 | 1.06% | 5.2 |
| bunched ironweed | Vernonia fasciculata | 0.03 | 0.03 | 0.23% | 0.3 |
| Culver's root | Veronicastrum virginicum | 0.02 | 0.02 | 0.14% | 6.0 |
| golden alexanders | Zizia aurea | 0.28 | 0.25 | 1.76% | 1.0 |
| | Total Forbs | 1.68 | 1.50 | 10.45% | 40.0 |
| Oats or winter wheat (see note at beginning of list for | | 2.05 | 0.00 | 40.746 | |
| recommended dates) | - | 6.95 | 6.20 | 42.74% | 2.7 |
| | Total Cover Crop | 6.95 | 6.20 | 42.74% | 2.7 |
| Purpose: | Totals: Wet prairie reconstruction for wetl | 16.25 and mitiga | 14.50 | 100.00% | 121.5 |
| • | Tallgrass Aspen Parklands, Prairie | | | _ | |
| Planting Area: | Taligrass Aspen Parklands, Prairi Provinces, Mn/DOT Districts 2(w | | | | rorest |

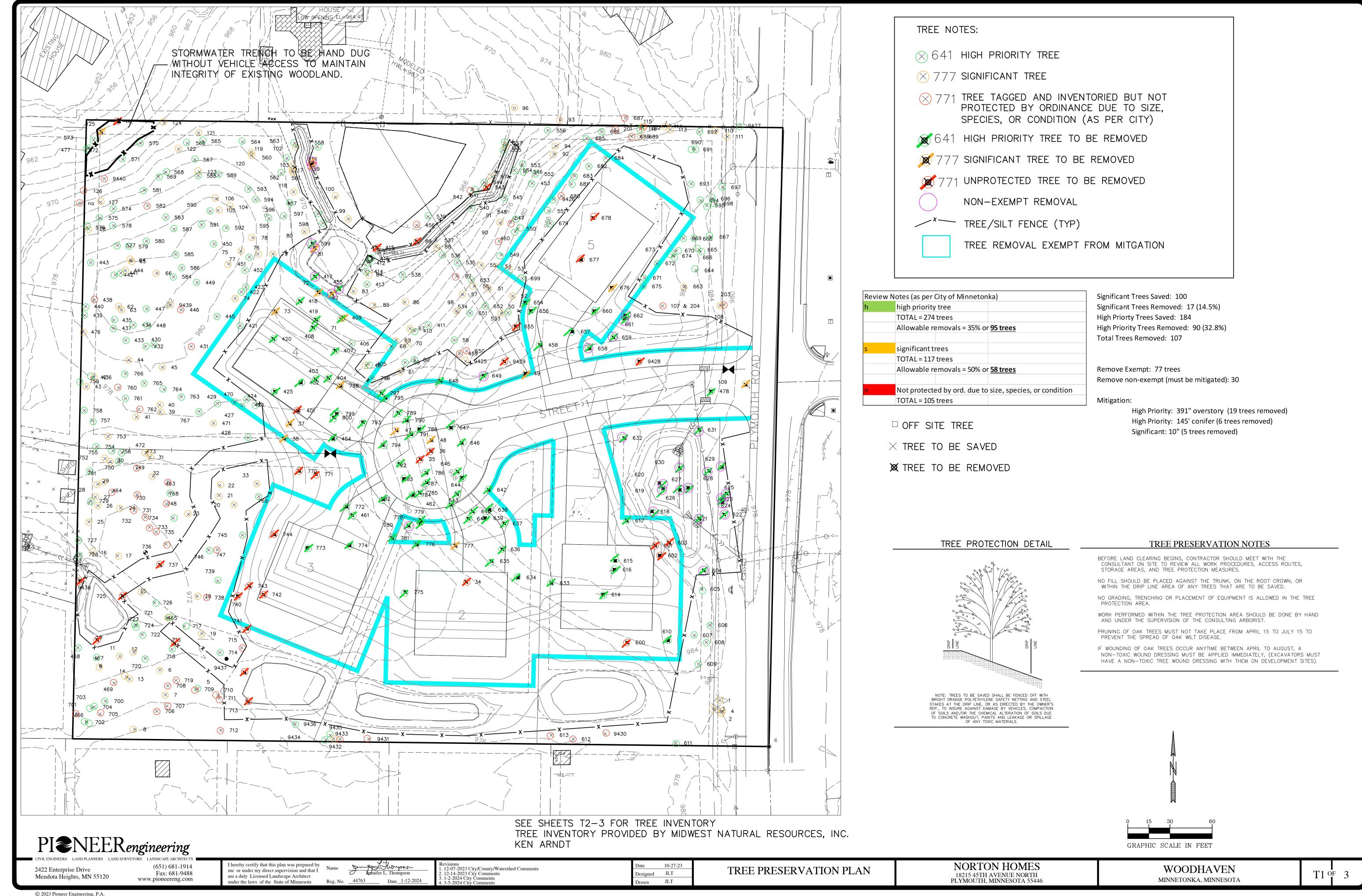
CONIFEROUS TREE PLANTING DETAIL



NORTON HOMES 18215 45TH AVENUE NORTH PLYMOUTH, MINNESOTA 55446

42-3 TIMES BALL DIAMETER 🖈

WOODHAVEN MINNETONKA, MINNESOTA



| Tag No. | DSH 5 | Common Name Black Walnut | Scientific Name Juglans nigra | Notes girdled by chain link fence | Condition Rating | Status Save | Category | Remo Exen |
|----------------------------------|----------------|--------------------------|--|---|------------------|-----------------------|-----------------|--------------|
| 2 | 6 | Siberian Elm | Ulmus pumila | | 7 | Save | n | |
| 3 | 9 | Siberian Elm | Ulmus pumila | | 7 | Save | n | |
| 4 | 8 | Siberian Elm | Ulmus pumila | | 7 | Save | n | |
| 5 | 10 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 6 | 6 | Green Ash | Fraxinus pennsylvanica | in decline | 4 | Save | n | |
| 7 | 5 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | + |
| 8 | 9 | Bur Oak | Quercus macrocarpa | | 7 | Save | S | + |
| 9 | 9 8 | Green Ash Ironwood | Fraxinus pennsylvanica Ostrya virginiana | dead | 6 0 | Save Remove | n n | + |
| 11 | 8 4 | Ironwood | Ostrya virginiana | dead | 0 | Save | n | + |
| 12 | 8 | Basswood | Tilia americana | dead | 0 | Save | n | + |
| 13 | 6 | Basswood | Tilia americana | ueau | 7 | Save | S | |
| 14 | 5 | Ironwood | Ostrya virginiana | | 7 | Save | S | + |
| 15 | 9 | Basswood | Tilia americana | tree leaning on it | 5 | Save | S | + |
| 16 | 4 | Ironwood | Ostrya virginiana | tree learning of it. | 7 | Save | S | + |
| 17 | 8 | Silver Maple | Acer saccharinum | | 6 | Save | S | + |
| 18 | 5 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | - |
| 19 | 5 | Green Ash | Fraxinus pennsylvanica | damage along trunk | 5 | Save | n | - |
| 20 | <u>5</u> | Box Elder | Acer negundo | decay along trunk | 5 | Save | n | |
| 21 | 8 | Hackberry | Celtis occidentalis | decay along trunk | 6 | Save | S | + |
| 22 | 6 | Sugar Maple | Acer saccharum | | 7 | Save | S | + |
| 23 | 7 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | + |
| 24 | 6 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | + |
| 25 | 7 | Ironwood | Ostrya virginiana | | 7 | Save | S | + |
| 26 | 7 | Ironwood | Ostrya virginiana | | 6 | Save | S | + |
| 27 | 6 | Ironwood | Ostrya virginiana | | 7 | Save | S | + |
| 28 | 8 | Basswood | Tilia americana | | 6 | Save | S | + |
| 29 | 8 4 | Basswood | Tilia americana | | 6 | Save | S | + |
| 30 | 4 5 | Ironwood | Ostrya virginiana | | 7 | Save | S | + |
| 31 | 5 | Basswood | Tilia americana | | 6 | Save | S | + |
| 32 | 6 | Basswood | Tilia americana | | 7 | Save | S | + |
| 33 | 4 | Sugar Maple | Acer saccharum | | 7 | Save | S | + |
| 34 | 8 | Green Ash | Fraxinus pennsylvanica | | 6 | Remove | n | + |
| 35 | 4 | Green Ash | Fraxinus pennsylvanica | | 7 | Remove | n | - |
| 36 | 8 | Green Ash | Fraxinus pennsylvanica | eab likely, flecking | 5 | Remove | n | - |
| 37 | 5 | Silver Maple | Acer saccharinum | | 7 | Remove | s | Yes |
| 38 | 5 | Silver Maple | Acer saccharinum | | 6 | Remove | s | Yes |
| 39 | 7 | Basswood | Tilia americana | | 7 | Save | s | + |
| 40 | | Basswood | Tilia americana | | 7 | Save | s | |
| 41 | 7 | American Elm | Ulmus americana | | 6 | Save | s | |
| 42 | 4 | Basswood | Tilia americana | | 6 | Save | s | |
| 43 | 7 | Basswood | Tilia americana | dead | 0 | Save | n | - |
| 44 | 6 | Basswood | Tilia americana | | 7 | Save | S | - |
| 45 | 4 | Ironwood | Ostrya virginiana | | 7 | Save | s | |
| 46 | 4 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 47 | 4 | Silver Maple | Acer saccharinum | | 7 | Remove | s | Yes |
| 48 | 3 | White Spruce | Picea glauca | 12' in height, heavily shade suppressed | 2 | Remove | s | Yes |
| 49 | 5 | White Oak | Quercus alba | | 7 | Remove | s | Yes |
| 50 | 4 | Ironwood | Ostrya virginiana | | 7 | Save | s | |
| 51 | 6 | Basswood | Tilia americana | | 6 | Save | s | |
| 52 | 8 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 53 | 7 | Basswood | Tilia americana | cankers along trunk | 5 | Save | S | |
| 54 | 5,2,2 | Ironwood | Ostrya virginiana | 5" trunk is dead | 3 | Save | n | |
| 55 | 9 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 56 | 8 | Basswood | Tilia americana | cankers along trunk | 4 | Save | S | |
| 57 | 8 | Basswood | Tilia americana | | 7 | Save | S | |
| 58 | 9 | Ironwood | Ostrya virginiana | | 6 | Save | S | |
| 59 | 11 | Basswood | Tilia americana | | 7 | Save | h | |
| 60 | 13 | Basswood | Tilia americana | | 7 | Save | h | |
| 61 | 8 | Basswood | Tilia americana | some mechanical damage along trunk | 6 | Save | S | |
| 62 | 5 | Basswood | Tilia americana | | 7 | Save | S | |
| 63 | 9 | Basswood | Tilia americana | | 7 | Save | S | |
| 64 | 5 | Basswood | Tilia americana | | 6 | Save | S | |
| 65 | 4 | Basswood | Tilia americana | | 6 | Save | S | |
| 66 | 5 | Basswood | Tilia americana | | 6 | Save | S | |
| 67 | 5 | Basswood | Tilia americana | | 6 | Save | S | |
| 68 | 6 | Basswood | Tilia americana | cankers along trunk | 5 | Save | S | |
| 69 | 6 | Basswood | Tilia americana | | 7 | Save | S | |
| 70 | 4 | Basswood | Tilia americana | damage along trunk | 5 | Save | S | |
| 71 | 7 | Basswood | Tilia americana | | 7 | Remove | S | Yes |
| 72 | 4 | Silver Maple | Acer saccharinum | | 7 | Remove | S | Yes |
| 73 | 5 | Silver Maple | Acer saccharinum | | 7 | Remove | S | Yes |
| 74 | 6 | Silver Maple | Acer saccharinum | | 7 | Save | S | |
| 75 | 4 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 76 | 4 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 77 | 5 | Ironwood | Ostrya virginiana | | 6 | Save | S | |
| 78 | 6 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 79 | 8 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| | 5 | Basswood | Tilia americana | | 6 | Save | S | |
| 80 | 8 | Basswood | Tilia americana | | 6 | Remove | S | No |
| 81 | 5 | Basswood | Tilia americana | cankers along trunk | 5 | Remove | S | No |
| 81 82 | | Basswood | Tilia americana | | 7 | Save | S | |
| 81 82 83 | 7 | | Tilia americana | | 7 | Save | s | |
| 81 82 83 84 | 7 | Basswood | Tina americana | | | | | |
| 81 82 83 84 85 | 7 8 | Basswood | Tilia americana | | 6 | Save | s | |
| 81 82 83 84 85 86 | 7 8 6 | Basswood Basswood | Tilia americana Tilia americana | | 7 | Save | S S | |
| 81 82 83 84 85 | 7 8 | Basswood | Tilia americana | | | 1 | | |

| ag No. | DSH | Common Name | I I | Notes | Condition Rating | | Category | E |
|------------|----------|------------------------------|---|--|------------------|------------------|----------|----------|
| 90 91 | 7 4 | Box Elder Basswood | Acer negundo Tilia americana | 95% dead | 6 | Save Save | n s | |
| 92 | 6 | Basswood | Tilia americana | | 7 | Save | S | |
| 93 | 9 | Basswood | Tilia americana | | 7 | Off-Site | S | |
| 94 | 7 | Basswood | Tilia americana | | 6 | Save | S | |
| 95 96 | 9 | Basswood Basswood | Tilia americana Tilia americana | | 6 | Save Off-Site | S | |
| 97 | 4 | Basswood | Tilia americana | cankers along trunk | 5 | Save | S | |
| 98 | 4 | Basswood | Tilia americana | | 6 | Save | S | |
| 99 100 | 5 4 | Box Elder Box Elder | Acer negundo | | 6 | Save | S | |
| 101 | 7 | Basswood | Acer negundo Tilia americana | | 6 | Save Remove | S | No |
| 102 | 7 | Basswood | Tilia americana | | 6 | Save | S | |
| 103 | 5 | Basswood | Tilia americana | cankers along trunk | 5 | Save | S | |
| 104 105 | 5 4 | Ironwood | Ostrya virginiana Ostrya virginiana | | 6 7 | Save Save | s s | |
| 106 | 5 | Ironwood | Ostrya virginiana | | 6 | Save | S | |
| 107 | 7,7,4,4 | Crabapple | Malus sp. | one of 7" is dead | 4 | | n | |
| 108 109 | 9 9,6 | Box Elder White Mulberry | Acer negundo Morus alba | | 6 7 | Save Remove | s h | Yes |
| 1109 | 9,6 7 | Box Elder | Acer negundo | | 6 | Save | S | re |
| 111 | 9 | Box Elder | Acer negundo | | 6 | Save | S | |
| 112 | | | | There was never a tree 112 tagged | | _ | n | |
| 113 114 | 8 5 | American Elm Silver Maple | Ulmus americana Acer saccharinum | | 6 | Save Save | s s | - |
| 115 | 6 | Basswood | Tilia americana | | 7 | Save | S | |
| 116 | 7 | Basswood | Tilia americana | | 7 | Save | S | |
| 117 | 8 | Basswood | Tilia americana | | 7 | Save | S | |
| 118 119 | 7 | Basswood Ironwood | Tilia americana Ostrya virginiana | | 7 | Save Save | S | |
| 120 | 6 | Ironwood | Ostrya virginiana | | 6 | Save | S | |
| 121 | 7 | Ironwood | Ostrya virginiana | | 7 | Save | S | |
| 122 123 | 5 5 | Ironwood Basswood | Ostrya virginiana Tilia americana | cankers along trunk | 7 5 | Save | S | |
| 123 | 5,4 | Ironwood | Ostrya virginiana | cankers along trunk | 7 | Save Save | S | |
| 125 | 6 | Basswood | Tilia americana | | 7 | Remove | S | No |
| 126 | 5 | Ironwood | Ostrya virginiana | dead | 0 | Save | n | |
| 127 128 | 6 | Ironwood Ironwood | Ostrya virginiana Ostrya virginiana | | 7 | Save Save | s s | |
| 201 | 13 | Box Elder | Acer negundo | top removed | 0 | Save | n | |
| 202 | 10 | Basswood | Tilia americana | top removed | 2 | Save | n | |
| 203 204 | 10 12 | Siberian Elm Crabapple | Ulmus pumila Malus sp. | this tree is tagged the same as 107, this tree | 7 4 | Save | n | |
| 401 | 22 | White Oak | Quercus alba | dead | 0 | Remove | n n | |
| 402 | 21 | White Oak | Quercus alba | | 6 | Remove | h | Yes |
| 403 | 5 | White Spruce | Picea glauca | 15' in height | 5 | Remove | h | Ye |
| 404 405 | 14 14 | Basswood Basswood | Tilia americana Tilia americana | | 7 | Remove Save | h | Ye |
| 406 | 18 | White Oak | Quercus alba | | 6 | Save | h | |
| 407 | 12 | Basswood | Tilia americana | | 7 | Remove | h | Ye |
| 408 | 18 | Basswood | Tilia americana | cankers along trunk | 6 | Remove | h | Yes |
| 409 410 | 11 20 | Basswood White Oak | Tilia americana Quercus alba | | 7 6 | Remove Save | h | Yes |
| 411 | 16 | White Oak | Quercus alba | | 6 | Save | h | |
| 412 | 30 | Basswood | Tilia americana | | 7 | Save | h | |
| 413 414 | 11 15 | Basswood Bur Oak | Tilia americana | | 7 | Save Save | h | |
| 414 | 15 | Green Ash | Quercus macrocarpa Fraxinus pennsylvanica | 50% top missing | 4 | Save | h n | |
| 416 | 10 | Box Elder | Acer negundo | | 5 | Save | h | |
| 417 | 24 | White Oak | Quercus alba | | 6 | Remove | h | No |
| 418 419 | 16 20 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Remove Remove | h | Yes |
| 420 | 18 | Basswood | Tilia americana | cankers along trunk | 5 | Remove | h | Yes |
| 421 | 22 | White Oak | Quercus alba | | 6 | Save | h | |
| 422 | 15 | White Oak | Quercus alba | | 6 | | h | |
| 423 424 | 13 16 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Save Save | h | |
| 425 | 20 | White Oak | Quercus alba | | 7 | Remove | h | Yes |
| 426 | 16 | White Oak | Quercus alba | | 6 | Save | h | |
| 427 428 | 19 17 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Save Save | h | |
| 428 | 18 | White Oak | Quercus alba | | 6 | Save | h | |
| 430 | 11 | White Oak | Quercus alba | | 6 | Save | h | |
| 431 | 20 | White Oak | Quercus alba | in major decline | 2 | Save | n | |
| 432 433 | 22 12 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Save Save | h h | |
| 434 | 12 | White Oak | Quercus alba | | 6 | Save | h | |
| 435 | 15 | White Oak | Quercus alba | | 6 | Save | h | <u> </u> |
| 436 437 | 19 10 | White Oak White Oak | Quercus alba Quercus alba | | 7 6 | Save Save | h h | - |
| 437 | 18 | White Oak | Quercus alba | dead | 0 | Save | n n | |
| 439 | 12 | White Oak | Quercus alba | | 6 | Save | h | |
| 440 | 14 | White Oak | Quercus alba | | 6 | Save | h | |
| 441 442 | 17 21 | White Oak White Oak | Quercus alba Quercus alba | some crown dieback | 5 7 | Save Save | h | - |
| 442 | 11 | White Oak | Quercus alba | | 7 | Save | h | |
| 444 | 9 | White Oak | Quercus alba | | 6 | Save | S | |
| 445 | 21 | White Oak | Quercus alba | dead | 7 | Save | h | 1 |
| 446 447 | 16 23 | White Oak Red Oak | Quercus alba Quercus rubra | dead | 0 6 | Save Save | h h | |
| 447 | 13 | White Oak | Quercus rubra Quercus alba | | 6 | Save | h | |
| 449 | 20 | Red Oak | Quercus rubra | | 7 | Save | h | |
| 450 451 | 12 | White Oak | Quercus alba | | 6 7 | Save | h | |
| | 11 | White Oak | Quercus alba | | . 7 | Save | h | 1 |

| | DSH | + | Scientific Name | Notes | Condition Rating | ' | Category | Exempt |
|---|--|--|---|---|---|---|---|--------|
| 453 | 11 | Silver Maple | Acer saccharinum | | 6 | Save | h | |
| 454 | 17 | Bur Oak | Quercus macrocarpa | | 6 | Remove | h | Yes |
| 455 | 11 | Basswood American Elm | Tilia americana | some cankers along trunk dead | 6 | Remove | h | No |
| 456 457 | 9 16 | Bur Oak | Ulmus americana Quercus macrocarpa | dead | 0 6 | Save Save | h | + |
| 458 | 14 | Black Cherry | Prunus serotina | | 7 | Remove | h | Yes |
| 459 | 10 | Siberian Elm | Ulmus pumila | | 7 | Save | n | |
| 460 | 10 | Silver Maple | Acer saccharinum | some crown dieback | 5 | Save | h | |
| 461 | 10 | White Oak | Quercus alba | | 7 | Remove | h | Yes |
| 462 | 3 | White Spruce | Picea glauca | 12' in height, heavily shade suppressed | 3 | Remove | S | Yes |
| 463 464 | 8 9 | Basswood Green Ash | Tilia americana Fraxinus pennsylvanica | | 7 6 | Save Save | n s | + |
| 465 | 9 | Red Oak | Quercus rubra | | 6 | Save | S | + |
| 466 | 10 | Basswood | Tilia americana | | 6 | Save | h | |
| 467 | 37 | Bur Oak | Quercus macrocarpa | | 7 | Save | h | |
| 468 | 15 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 469 | 10 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | + |
| 470 471 | 18 8 | White Oak Silver Maple | Quercus alba Acer saccharinum | | 6 7 | Save Save | h s | _ |
| 472 | 9 | Basswood | Tilia americana | | 6 | Save | S | + |
| 473 | 9 | Basswood | Tilia americana | | 6 | Save | S | |
| 474 | | | | There was never a tree 474 tagged | | | n | |
| 475 | 18 | Basswood | Tilia americana | Unable to locate this tree | na | _ | n | |
| 476 | 9 | Basswood | Tilia americana | | 7 | Save | S | + |
| 477 478 | 10 11 | Basswood Silver Maple | Tilia americana Acer saccharinum | | 7 7 | Save Remove | h | Yes |
| 533 | 9 | Basswood | Tilia americana | cankers along trunk | 5 | Save | S | 1.03 |
| 534 | 13 | Basswood | Tilia americana | <u> </u> | 7 | Save | h | |
| 535 | 15 | White Oak | Quercus alba | | 6 | Save | h | |
| 536 | 21 | White Oak | Quercus alba | | 6 | Save | h | |
| 537 | 17 | Basswood | Tilia americana | | 7 | Save | h | _ |
| 538 539 | 29 20 | Red Maple Red Elm | Acer rubrum Ulmus rubra | | 7 7 | Save Save | h | |
| 540 | 15 | Basswood | Tilia americana | | 6 | Save | h h | |
| 541 | 20 | Basswood | Tilia americana | | 7 | Save | h | |
| 542 | 11 | Red Elm | Ulmus rubra | dead | 0 | Save | n | |
| 543 | 15 | Green Ash | Fraxinus pennsylvanica | 95% dead | 1 | Save | n | |
| 544 | 14 | Basswood | Tilia americana | | 6 | Save | h | |
| 545 | 30 | Silver Maple | Acer saccharinum | 25% crown damage | 5 | Save | h | |
| 546 547 | 15 10 | Silver Maple Silver Maple | Acer saccharinum Acer saccharinum | some crown dieback | 5 6 | Save Save | h | + |
| 548 | 22 | Cottonwood | Populus deltoides | major crown dieback | 4 | Save | n | + |
| 549 | 18 | White Oak | Quercus alba | | 7 | Save | h | + |
| 550 | 19 | Cottonwood | Populus deltoides | some crown dieback | 5 | Save | h | |
| 551 | 11 | Silver Maple | Acer saccharinum | | 6 | Save | h | |
| 552 | 28 | Cottonwood | Populus deltoides | some crown dieback | 5 | Save | h | |
| 553 | 15 | Silver Maple | Acer saccharinum | some crown damage | 5 | Save | h | _ |
| 554 555 | 13 24 | Silver Maple Cottonwood | Acer saccharinum Populus deltoides | | 6 7 | Save Save | h | - |
| 556 | 11 | Basswood | Tilia americana | | 6 | Save | h | + |
| 557 | 11 | Basswood | Tilia americana | | 6 | Save | h | + |
| 558 | 12 | American Elm | Ulmus americana | | 6 | Save | h | |
| 559 | 9 | Basswood | Tilia americana | | 6 | Remove | S | No |
| 560 | 15 | Basswood | Tilia americana | | 6 | Save | h | |
| 561 | 19 | Basswood | Tilia americana | | 7 | Save | h | |
| 562 563 | 10 16 | Basswood Basswood | Tilia americana Tilia americana | | 6 | Save Save | h | + |
| 564 | 22 | White Oak | Quercus alba | | 7 | Save | h | + |
| 565 | 17 | White Oak | Quercus alba | | 7 | Save | h | + |
| 566 | 25 | White Oak | Quercus alba | | 7 | Save | h | |
| 567 | 15 | White Oak | Quercus alba | | 7 | Save | h | |
| 568 | 24 | Red Oak | Quercus rubra | | 7 | Save | h | |
| 569 | 21 | White Oak | Quercus alba | | 6 | Save | h | |
| 570 571 | 18 22 | Red Oak Red Oak | Quercus rubra Quercus rubra | | 6 | Save Save | h | + |
| 572 | 17 | Basswood | Tilia americana | | 7 | Save | h | |
| 573 | 14 | Red Oak | Quercus rubra | | 7 | Save | h | |
| 574 | 18 | Red Oak | Quercus rubra | | 7 | Save | h | |
| | 12 | Red Oak | Quercus rubra | | 6 | Save | h | |
| 575 | | unimita Cali | Quercus alba | | 6 | Save | h | |
| 575 576 | 10 | White Oak | Quercus alba | | ן ס | Save | h | + |
| 575 576 577 | 12 | White Oak | Ouercus ruhra | | 7 | ISave | 1 | + |
| 575 576 | | | Quercus rubra Quercus alba | | 7 6 | Save Save | h | |
| 575 576 577 578 | 12 16 | White Oak Red Oak | · · | | | | h h | |
| 575 576 577 578 579 580 581 | 12 16 13 13 16 | White Oak Red Oak White Oak White Oak White Oak | Quercus alba Quercus alba Quercus alba | | 6 6 7 | Save Save Save | | |
| 575 576 577 578 579 580 581 582 | 12 16 13 13 16 10 | White Oak Red Oak White Oak White Oak White Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba | dead | 6 6 7 0 | Save Save Save | h h n | |
| 575 576 577 578 579 580 581 582 583 | 12 16 13 13 16 10 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra | dead | 6 6 7 0 6 | Save Save Save Save | h h n h | |
| 575 576 577 578 579 580 581 582 583 584 | 12 16 13 13 16 10 12 19 | White Oak Red Oak White Oak White Oak White Oak White Oak White Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba | dead | 6 6 7 0 | Save Save Save Save Save Save | h h n h | |
| 575 576 577 578 579 580 581 582 583 | 12 16 13 13 16 10 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra | dead | 6 6 7 0 6 7 | Save Save Save Save | h h n h | |
| 575 576 577 578 579 580 581 582 583 584 585 | 12 16 13 13 16 10 12 19 | White Oak Red Oak White Oak White Oak White Oak White Oak White Oak Red Oak White Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba | dead | 6 6 7 0 6 7 7 | Save Save Save Save Save Save Save | h h n h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 | 12 16 13 13 16 10 12 19 19 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak White Oak Red Oak White Oak Red Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra | dead | 6 6 7 0 6 7 7 7 | Save Save Save Save Save Save Save Save | h h n h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 | 12 16 13 13 16 10 12 19 19 20 16 26 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak White Oak Red Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 | Save Save Save Save Save Save Save Save | h h n h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 | 12 16 13 13 16 10 12 19 19 20 16 26 16 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak White Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba Quercus alba Quercus alba | dead | 6 6 7 0 6 7 7 7 7 6 7 6 | Save Save Save Save Save Save Save Save | h h n h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak Red Oak Red Oak Red Oak White Oak White Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 | Save Save Save Save Save Save Save Save | h h n h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak Red Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 7 | Save Save Save Save Save Save Save Save | h h n h h h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 17 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 7 6 | Save Save Save Save Save Save Save Save | h h h h h h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak Red Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 7 | Save Save Save Save Save Save Save Save | h h n h h h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 17 17 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak Red Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 7 6 7 | Save Save Save Save Save Save Save Save | h h n h h h h h h h h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 | 12 16 13 13 16 10 12 19 20 16 26 16 19 21 17 17 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 7 6 7 6 6 7 | Save Save Save Save Save Save Save Save | h h n h h h h h h h h h h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 590 591 592 593 594 595 596 597 598 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 17 17 19 17 19 19 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak White Oak Basswood White Oak Bur Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba | dead | 6 6 7 0 6 7 7 7 6 7 6 7 6 7 6 6 7 7 6 6 7 | Save Save Save Save Save Save Save Save | h h n h h h h h h h h h h h h h h h h h | |
| 575 576 577 578 579 580 581 582 583 584 585 586 587 588 590 591 592 593 594 595 596 597 | 12 16 13 13 16 10 12 19 19 20 16 26 16 19 21 17 17 19 17 12 20 | White Oak Red Oak White Oak White Oak White Oak White Oak Red Oak White Oak Red Oak Red Oak Red Oak Red Oak White Oak | Quercus alba Quercus alba Quercus alba Quercus alba Quercus alba Quercus rubra Quercus alba Quercus rubra Quercus rubra Quercus rubra Quercus rubra Quercus alba Tilia americana Quercus alba | dead dead in major decline | 6 6 7 0 6 7 7 7 6 7 6 7 6 7 6 6 7 7 6 6 7 | Save Save Save Save Save Save Save Save | h h h h h h h h h h h h h h h h h h h | No |



2422 Enterprise Drive Mendota Heights, MN 55120

(651) 681-1914 Fax: 681-9488 www.pioneereng.com

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

Name

Jennifer L. Thompson

Reg. No. 44763

Date 1-12-2024

Revisions
1. 12-07-2023 City/County/Watershed Comments
2. 12-14-2023 City Comments
3. 1-2-2024 City Comments
4. 3-5-2024 City Comments

Date 10-27-23
Designed JLT
Drawn JLT

TREE PRESERVATION PLAN

NORTON HOMES

18215 45TH AVENUE NORTH
PLYMOUTH, MINNESOTA 55446

WOODHAVEN MINNETONKA, MINNESOTA

T2 of 3

| Tag No | DSH | Common Name | Scientific Name | Notes | Condition Pating | Status | Category | Remo |
|--------------------|----------|---------------------------|---------------------------------------|--|------------------|------------------|---------------|------------|
| Tag No. 602 | 25 | Red Oak | Quercus rubra | dying back, possible 2-lined chesnut borer | Condition Rating | Remove | Category n | Exer |
| 603 | 26 | Red Oak | Quercus rubra | dead, possible 2-lined chestnut borer | 0 | Remove | n | |
| 604 | 12 | White Spruce | Picea glauca | 30' in height | 6 | Remove | h | |
| 605 | 16 | White Spruce | Picea glauca | 35' in height | 7 | Save | h | |
| 606 607 | 16 11 | White Spruce White Spruce | Picea glauca Picea glauca | 35' in height 30' in height, lower branches shade suppress | 6 5 | Save Save | h h | |
| 608 | 11 | White Spruce | Picea glauca | 30' in height | 6 | Save | h | |
| 609 | 13 | White Spruce | Picea glauca | 30' in height | 6 | Save | h | |
| 610 | 14 | Apple | Malus sp. | | 6 | Remove | h | |
| 611 | 29 | White Oak | Quercus alba | | 8 | Save | h | |
| 612 | 16 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 613 614 | 14 24 | Green Ash Red Oak | Fraxinus pennsylvanica Quercus rubra | possible eab, woodpecker damage | 5 7 | Save Remove | h | yes |
| 615 | 18 | Red Oak | Quercus rubra | | 7 | Remove | h | yes |
| 616 | 18 | Red Oak | Quercus rubra | | 7 | Remove | h | yes |
| 617 | 22 | Silver Maple | Acer saccharinum | | 7 | Remove | h | yes |
| 618 | 24 | Silver Maple | Acer saccharinum | | 7 | Remove | h | No |
| 619 620 | 24 | Red Oak Red Oak | Quercus rubra Quercus rubra | | 7 7 | Remove Remove | h | No No |
| 621 | 26 | Red Oak | Quercus rubra | | 6 | Remove | h | No |
| 622 | 22 | Red Oak | Quercus rubra | 30% crown dieback | 5 | Remove | h | No |
| 623 | 17 | Red Oak | Quercus rubra | | 7 | Remove | h | No |
| 624 | 16 | Red Oak | Quercus rubra | | 6 | Remove | h | No |
| 625 | 18 | Red Oak | Quercus rubra | | 6 | Remove | h | No |
| 626 | 16 | Silver Maple | Acer saccharinum | | 7 | Remove | h | No |
| 627 628 | 23 19 | Red Oak Red Oak | Quercus rubra Quercus rubra | | 7 7 | Remove Remove | h | No No |
| 628 | 25 | Red Oak | Quercus rubra Quercus rubra | + | 7 | Remove | h h | No |
| 630 | 20 | White Oak | Quercus alba | minor decay at base | 6 | Remove | h | No |
| 631 | 15 | Norway Maple | Acer platanoides | · | 7 | Remove | h | No |
| 632 | 38 | Silver Maple | Acer saccharinum | | 7 | | h | yes |
| 633 | 22 | Silver Maple | Acer saccharinum | | 6 | Remove | h | yes |
| 634 | 44 | Silver Maple | Acer saccharinum | | 6 | Remove | h | yes |
| 635 636 | 19 21 | Silver Maple White Oak | Acer saccharinum Quercus alba | | 6 7 | Remove Remove | h | yes yes |
| 637 | 23 | White Oak | Quercus alba Quercus alba | + | 7 | Remove | h | yes |
| 638 | 24 | White Oak | Quercus alba | | 7 | Remove | h | yes |
| 639 | 22 | White Oak | Quercus alba | | 6 | Remove | h | yes |
| 640 | 20 | White Oak | Quercus alba | | 7 | Remove | h | yes |
| 641 | 15 | White Oak | Quercus alba | | 6 | Remove | h | yes |
| 642 | 12 | Red Maple | Acer rubrum Acer rubrum | minor mechanical damage along trunk | 6 7 | Remove | h | yes Yes |
| 643 644 | 11 19 | Red Maple White Oak | Quercus alba | | 6 | Remove Remove | h h | Yes |
| 645 | 16 | White Oak | Quercus alba | | 6 | Remove | h | Yes |
| 646 | 28 | White Oak | Quercus alba | | 6 | Remove | h | Yes |
| 647 | 24 | Red Oak | Quercus rubra | | 6 | Remove | h | yes |
| 648 | 10 | White Spruce | Picea glauca | 30' in height, heavily shade suppressed | 4 | Remove | h | yes |
| 649 | 12 | White Spruce | Picea glauca | 30' in height, back side shade suppressed | 5 | Remove | h | yes |
| 650 651 | 27 18 | White Oak White Oak | Quercus alba Quercus alba | decay at base | 5 6 | Save Save | h | yes |
| 652 | 20 | Red Oak | Quercus rubra | | 5 | Save | h | yes |
| 653 | 22 | Red Oak | Quercus rubra | in major decline | 1 | Save | n | |
| 654 | 29 | White Oak | Quercus alba | | 7 | Remove | h | yes |
| 655 | 28 | White Oak | Quercus alba | decay at base | 5 | Remove | n | |
| 656 657 | 19 6 | White Oak White Spruce | Quercus alba | 25' in height, heavily shade suppressed | 6 3 | Remove Remove | h L | yes |
| 658 | 12 | White Spruce | Picea glauca Picea glauca | 25' in height, some dieback at top | 5 6 | Remove | h | yes No |
| 659 | 13 | White Spruce | Picea glauca | 30' in height | 6 | Remove | h | No |
| 660 | 30 | Cottonwood | Populus deltoides | | 6 | Remove | h | yes |
| 661 | 9 | Red Cedar | Juniperus virginiana | | 6 | Remove | h | No |
| 662 | 8 | Red Cedar | Juniperus virginiana | 1.16.6 | 6 | Remove | h | No |
| 663 | 9 | Balsam Fir | Abies balsamea Quercus alba | half of crown shade suppressed | 4 | Save | h | - |
| 664 665 | 15 13 | White Oak White Oak | Quercus alba Quercus alba | | 6 7 | Save Save | h | |
| 666 | 14 | | Tilia americana | | 7 | Save | h | + |
| 667 | 17 | Red Oak | Quercus rubra | | 7 | Save | h | |
| 668 | 12 | White Oak | Quercus alba | | 6 | Save | h | |
| 669 | 15 | Red Oak | Quercus rubra | | 6 | Save | h | |
| 670 | 16 | Red Oak | Quercus rubra | | 6 | Save | h | + |
| 671 672 | 12 14 | Red Oak Red Oak | Quercus rubra Quercus rubra | | 6 | Save Save | h | |
| 673 | 16 | Red Oak | Quercus rubra | | 7 | Save | h | |
| 674 | 16 | Red Oak | Quercus rubra | | 6 | Save | h | |
| 675 | 13,11,7 | Honey Locust | Gleditsia triacanthos 'inermis | | 7 | Save | h | |
| 676 | 9 | Mountain Ash | Sorbus sp. | canker along trunk | 5 | Remove | S | yes |
| 677 678 | 19 15 | Green Ash White Oak | Fraxinus pennsylvanica Quercus alba | eab likely, flecking some girdling from deck | 5 5 | Remove Remove | n n | - |
| 679 | 19 | Silver Maple | Acer saccharinum | Johne giruiliig HUIII ueck | 6 | Save | h | + |
| 680 | 17 | Green Ash | Fraxinus pennsylvanica | dieback, eab likely | 3 | Save | n | 1 |
| 681 | 15 | Basswood | Tilia americana | | 7 | Save | h | |
| 682 | 26 | Cottonwood | Populus deltoides | | 6 | Save | h | |
| 683 | 12 | Box Elder | Acer negundo | <u> </u> | 6 | Save | h | |
| 684 | 11 | Red Cedar Box Elder | Juniperus virginiana | shade suppressed | 5 | Save | h | + |
| 685 686 | 13 33 | Cottonwood | Acer negundo Populus deltoides | | 6 | Save Save | h | + |
| 687 | 22 | Silver Maple | Acer saccharinum | leaning over house | 6 | Off-Site | n | |
| 688 | 12 | Silver Maple | Acer saccharinum | top cut off | 2 | Save | n | |
| 689 | 15 | White Oak | Quercus alba | | 6 | Save | h | |
| 690 | 13 | Basswood | Tilia americana | | 6 | Save | h | |
| 691 | 13 | Basswood | Tilia americana | | 6 | Save | h | |
| 692 | 11 | American Elm | Ulmus americana | epicormic branching along trunk | 5 | Save | h | + |
| 693 694 | 15 13 | Bur Oak Bur Oak | Quercus macrocarpa Quercus macrocarpa | | 6 6 | Save Save | h | + |
| 695 | 15 | Basswood | Tilia americana | | 7 | Save | h | + |
| ' | | Basswood | Tilia americana | | 7 | Save | h | 1 |

| Tag No. | DSH | Common Name | Scientific Name | Notes | Condition Rating | Status | Category | Removal Exempt |
|------------|-------------|---------------------------|---|---|------------------|------------------|----------|-------------------|
| 697 | 18 | Basswood | Tilia americana | | 7 | Save | h | |
| 698 699 | 12 25 | Basswood Red Oak | Tilia americana Quercus rubra | | 7 7 | Save Save | h h | |
| 700 | 22 | Basswood | Tilia americana | | 7 | Save | h | |
| 701 702 | 18 18 | Green Ash Red Oak | Fraxinus pennsylvanica Quercus rubra | | 6 | Save Save | h | |
| 703 | 17 | Basswood | Tilia americana | | 6 | Save | h | |
| 704 705 | 13 20 | Basswood Green Ash | Tilia americana Fraxinus pennsylvanica | | 6 | Save Save | h n | |
| 706 | 15 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 707 | 13 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 708 709 | 14 11 | Green Ash Green Ash | Fraxinus pennsylvanica Fraxinus pennsylvanica | | 6 | Save Save | n n | |
| 710 | 15 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 711 712 | 15 5 | Green Ash Red Cedar | Fraxinus pennsylvanica Juniperus virginiana | 12' in height, top broken | <u>6</u> 5 | Save Save | n n | |
| 713 | 19 | Green Ash | Fraxinus pennsylvanica | major decay at base | 5 | Remove | n | |
| 714 | 15 | Box Elder | Acer negundo | | 6 | Save | h | |
| 715 716 | 24,16 24 | Box Elder Basswood | Acer negundo Tilia americana | 16" trunk is dead co-dom lead split from main trunk | 6 4 | Save Save | n n | |
| 717 | 18 | Red Oak | Quercus rubra | · | 6 | Save | h | |
| 718 719 | 22 16 | Basswood Green Ash | Tilia americana Fraxinus pennsylvanica | | 7 6 | Save Save | h n | |
| 720 | 10 | Black Cherry | Prunus serotina | | 6 | Save | h | |
| 721 | 18 | Basswood | Tilia americana | | 7 | Save | h | |
| 722 723 | 22 13 | Basswood Basswood | Tilia americana Tilia americana | | 7 7 | Save Save | h h | |
| 724 | 17 | Basswood | Tilia americana | | 7 | Save | h | |
| 725 726 | 14 14 | Basswood Basswood | Tilia americana Tilia americana | dead | 0 6 | Remove Save | n h | 1 |
| 726 | 20 | Basswood | Tilia americana | | 6 | Save | h | |
| 728 | 23 | Basswood | Tilia americana | | 7 | Save | h | |
| 729 730 | 21 13 | Bur Oak Green Ash | Quercus macrocarpa Fraxinus pennsylvanica | nearly dead | 6 | Save Save | h n | |
| 731 | 21 | Green Ash | Fraxinus pennsylvanica | in major decline, likely eab | 2 | Save | n | |
| 732 733 | 19 18 | Green Ash Green Ash | Fraxinus pennsylvanica Fraxinus pennsylvanica | in major decline, likely eab in major decline, likely eab | 3 2 | Save Save | n | _ |
| 734 | 10 | Ironwood | Ostrya virginiana | in major decline, likely eab | 7 | Save | h | |
| 735 | 15 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 736 737 | 15 11 | Green Ash Green Ash | Fraxinus pennsylvanica Fraxinus pennsylvanica | heavy epicormic branching | 6 | Save Remove | n n | |
| 738 | 18 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 739 | 14 | Red Oak | Quercus rubra | minor damage along trunk | 6 | Save | h | |
| 740 741 | 9 22 | White Spruce Green Ash | Picea glauca Fraxinus pennsylvanica | dead | 0 6 | Remove Remove | n n | |
| 742 | 7 | White Spruce | Picea glauca | dead | 0 | Remove | n | |
| 743 744 | 9 21 | White Spruce Green Ash | Picea glauca Fraxinus pennsylvanica | 90% dead | 6 | Remove Remove | n n | |
| 745 | 10 | American Elm | Ulmus americana | | 6 | Save | h | |
| 746 | 31 | Bur Oak | Quercus macrocarpa | 44 | 6 | Save | h | |
| 747 748 | 22 15 | Bur Oak Green Ash | Quercus macrocarpa Fraxinus pennsylvanica | dead in major decline, likely eab | 0 3 | Save Save | n n | |
| 749 | 13 | Green Ash | Fraxinus pennsylvanica | dieback, likely eab | 3 | Save | n | |
| 750 751 | 11 12 | Basswood Basswood | Tilia americana Tilia americana | | 6 | Save Save | h | |
| 752 | 9 | Basswood | Tilia americana | | 6 | Save | s | |
| 753 754 | 9 11 | Basswood Basswood | Tilia americana Tilia americana | | 6 7 | Save | s h | |
| 755 | 12 | Basswood | Tilia americana | | 7 | Save Save | h | |
| 756 | 14 | Basswood | Tilia americana | | 6 | Save | h | |
| 757 758 | 18 11 | Basswood Basswood | Tilia americana Tilia americana | | 7 7 | Save Save | h | |
| 759 | 19 | White Oak | Quercus alba | | 7 | Save | h | |
| 760 761 | 17 16 | White Oak Basswood | Quercus alba Tilia americana | in major decline | 3 6 | Save Save | n h | |
| 762 | 14 | Basswood | Tilia americana | dead | 0 | Save | n | |
| 763 | 17 | White Oak | Quercus alba | dead | 0 | Save | n | |
| 764 765 | 21 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Save Save | h | |
| 766 | 24 | White Oak | Quercus alba | | 6 | Save | h | |
| 767 | 20 | White Oak | Quercus alba | | 6 | Save | h | |
| 768 769 | 23 27 | White Oak Basswood | Quercus alba Tilia americana | | 6 | Save Save | h | |
| 770 | 19 | Green Ash | Fraxinus pennsylvanica | | 6 | Remove | n | |
| 771 772 | 21 28 | Green Ash Bur Oak | Fraxinus pennsylvanica Quercus macrocarpa | possible eab, some flecking | 5 7 | Remove Remove | n h | yes |
| 773 | 28 | Bur Oak | Quercus macrocarpa | minor decay at base | 6 | Remove | h | yes |
| 774 | 18 | Bur Oak | Quercus macrocarpa | | 6 | Remove | h | yes |
| 775 776 | 28 | Bur Oak White Oak | Quercus macrocarpa Quercus alba | | 7 6 | Remove Remove | h | yes |
| 777 | 6 | White Spruce | Picea glauca | 15' in height | 5 | Remove | h | yes |
| 778 779 | 15 15 | White Oak White Oak | Quercus alba Quercus alba | | 6 6 | Remove Remove | h | Yes Yes |
| 780 | 16 | White Oak | Quercus alba | | 6 | Remove | h | No |
| 781 | 17 | Bur Oak | Quercus macrocarpa | | 6 | Remove | h | Yes |
| 782 783 | 21 17 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Remove Remove | h h | Yes Yes |
| 784 | 15 | White Oak | Quercus alba | | 6 | Remove | h | Yes |
| 785 786 | 18 19 | White Oak White Oak | Quercus alba | | 6 | Remove | h | Yes |
| 786 787 | 19 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Remove Remove | h h | Yes Yes |
| 788 | 23 | White Oak | Quercus alba | | 7 | Remove | h | yes |
| 789 790 | 19 17 | White Oak White Oak | Quercus alba Quercus alba | | 6 | Remove Remove | h | yes yes |
| , , , , | 16 | White Oak | Quercus alba | | 6 | Remove | h | yes |

| | | | | | | | | Removal |
|---------|---------|--------------|------------------------|---|-------------------------|----------|----------|---------|
| Tag No. | DSH | Common Name | Scientific Name | Notes | Condition Rating | Status | Category | Exempt |
| 792 | 16 | White Oak | Quercus alba | | 6 | Remove | h | |
| 793 | 18 | White Oak | Quercus alba | | 6 | Remove | h | yes |
| 794 | 19 | White Oak | Quercus alba | | 7 | Remove | h | yes |
| 795 | 16 | White Oak | Quercus alba | | 6 | Remove | h | Yes |
| 796 | 22 | White Oak | Quercus alba | | 6 | Save | h | |
| 797 | 18 | White Oak | Quercus alba | | 7 | Remove | h | Yes |
| 798 | 9 | White Oak | Quercus alba | | 6 | Remove | S | yes |
| 799 | 15 | Basswood | Tilia americana | | 6 | Remove | h | yes |
| 800 | 12 | Basswood | Tilia americana | | 7 | Remove | h | yes |
| 9425 | 6 | Black Cherry | Prunus serotina | | 6 | Save | S | |
| 9426 | 4 | American Elm | Ulmus americana | | 7 | Save | S | |
| 9427 | 9,6 | Box Elder | Acer negundo | | 6 | Off-Site | h | |
| 9428 | 4 | Green Ash | Fraxinus pennsylvanica | | 8 | Remove | n | |
| 9429 | 10 | Pear | Pyrus sp. | in major decline, hollow | 2 | Remove | n | |
| 9430 | 14 | Green Ash | Fraxinus pennsylvanica | on other side of property line fence | 6 | Save | n | |
| 9431 | 30 | Cottonwood | Populus deltoides | on other side of property line fence | 7 | Save | n | |
| 9432 | 8 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| 9433 | 9 | Cottonwood | Populus deltoides | | 6 | Save | S | |
| 9434 | 19 | Cottonwood | Populus deltoides | | 7 | Save | h | |
| 9435 | 14 | Cottonwood | Populus deltoides | | 7 | Save | h | |
| 9436 | 20,16,9 | Cottonwood | Populus deltoides | | 7 | Save | h | |
| 9437 | 22 | Green Ash | Fraxinus pennsylvanica | toppled | 3 | Remove | n | |
| 9438 | 24,18 | Basswood | Tilia americana | 24" trunk has major decay at base | 5 | Remove | n | |
| 9439 | 4 | Ironwood | Ostrya virginiana | | 7 | Save | s | |
| 9440 | 5 | Green Ash | Fraxinus pennsylvanica | | 6 | Save | n | |
| na | 25 | Red Oak | Quercus rubra | possibly off-site, located west of property lin | 6 | | n | |
| na | 14 | Red Oak | Quercus rubra | possibly off-site, located north of property li | 6 | | n | |

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(651) 681-1914 Fax: 681-9488 www.pioneereng.com 2422 Enterprise Drive Mendota Heights, MN 55120

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

Name

Jennifer L. Thompson

Reg. No. 44763

Date 1-12-2024

Revisions
1. 12-07-2023 City/County/Watershed Comments
2. 12-14-2023 City Comments
3. 1-2-2024 City Comments
4. 3-5-2024 City Comments

Date 10-27-23
Designed JLT
Drawn JLT

TREE PRESERVATION PLAN

NORTON HOMES

18215 45TH AVENUE NORTH
PLYMOUTH, MINNESOTA 55446

WOODHAVEN MINNETONKA, MINNESOTA

T3 OF 3

Description Sketch for: NORTON HOMES INC

123127-CONSERV EASEMENT.dwg 3-18-24 8892 KSO Cad File:

Date: Folder #: Drawn by:

LANDSCAPE ARCHITECTS (651) 681-1914
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Sheet 1 of 1

* This sketch does not purport to show the existence or nonexistence of any encroachments from or onto the hereon described land, easements of record or unrecorded easements which affect said land or any improvements to said land.