

FOR

FOR

RESOURCE LIST

PUBLIC UTILITIES
SHAKOPEE PUBLIC UTILITIES
255 SARAZIN ST.
SHAKOPEE, MN 55379
(952) 445-1988

CONSULTING ENGINEERS,
PLANNERS and LAND SURVEYORS

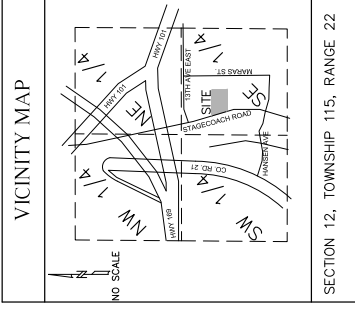
1000 EAST 146th STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

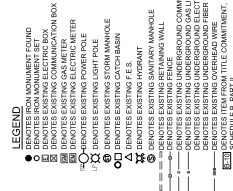
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

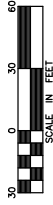
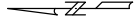
DATE 7/8/2023 REG. NO. 48365

SHEET NO.	SHEET INDEX	REV. NO.
1	COVER SHEET	
2	EXISTING CONDITION	
3	SITE PLAN / STORM SEWER	
4	GRADING PLAN	
5	EROSION CONTROL & SEEDING PLAN	
6	SWPPP	
7	SWPPP	
8	DETAILS - INFILTRATION BASIN	
9	DETAILS - CURB, FES	
10	DETAILS - PERMANENT EROSION CONTROL	
11	DETAILS - TURF ESTABLISHMENT AT CULVERT	
12	DETAILS - ESC BLANKET	
13	DETAILS - SEDIMENT CONTROL LOGS	
14	DETAILS - DITCH CHECKS	
15	DETAILS - INLET PROTECTION	
16	DETAILS - CONSTRUCTION EXIT	
17	DETAILS - SILT FENCE	
18	TREE INVENTORY PLAN	
19	LANDSCAPE PLAN	

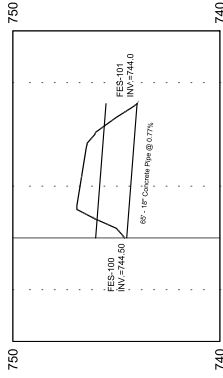
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SHAKOPEE'S GENERAL SPECIFICATIONS AND STANDARD DETAIL PLATES.
- ALL WATERMAIN WORK SHALL BE DONE IN ACCORDANCE WITH SHAKOPEE PUBLIC UTILITIES GENERAL SPECIFICATIONS AND DETAILS.
- CONTACT GPOD STATE ONE CALL (GPOC) 48 HOURS BEFORE DIGGING PER 811 OR 800-252-1166 OR THEIR ONLINE TICKETING SYSTEM.
- THE GOVERNING STANDARDS FOR THIS PROJECT SHALL BE: THESE PLANS, THE CITY OF SHAKOPEE STANDARD CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS FOR UTILITY AND STREET CONSTRUCTION, THE 2018 EDITION OF THE MMDOT "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," AND THE 2017 EDITION OF THE "STANDARD UTILITY SPECIFICATIONS FOR WATERMAIN AND SEWER SERVICE LINE INSTALLATION, SANITARY SEWER AND STORM SEWER INSTALLATION," AS PUBLISHED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA, AND ANY SPECIAL PROVISIONS.







LOT AREA : 157,946 SQ. FT
EX. BUILDING AREA : 25,066 SQ. FT
EX. DRIVEWAY AREA : 1,500 SQ. FT
EX. CONCRETE AREA : 403 SQ. FT
PROPOSED CONCRETE AREA : 1,016 SQ. FT
TOTAL IMPERVIOUS AREA : 101,676 SQ. FT (64.4%)

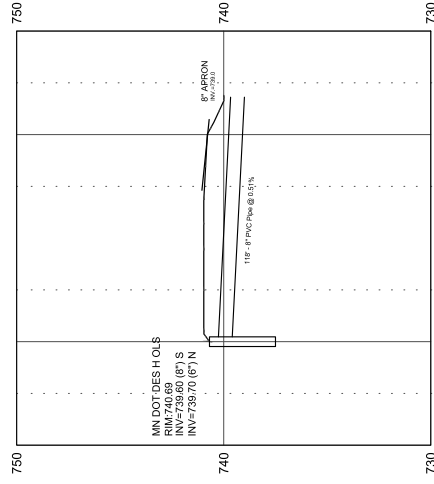


0+00

0+50

1+00

1+50



730

740

750

DESIGNED

CHECKED

DATE

8/20/20

SCALE

AS SHOWN

JOB NO.

17081.00

PREPARED FOR

NW ASPHALT

REVISIONS

NO.	DATE	DESCRIPTION

CONSULTING ENGINEERS,
PLANNERS and LAND SURVEYORS

**PROFE ENGINEERING
COMPANY, INC.**

1000 EAST 146th STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED ENGINEER UNDER
THE LAWS OF MINNESOTA.

DATE: 7/20/2020 REV: NO. 45895

SITE PLAN & STORM SEWER

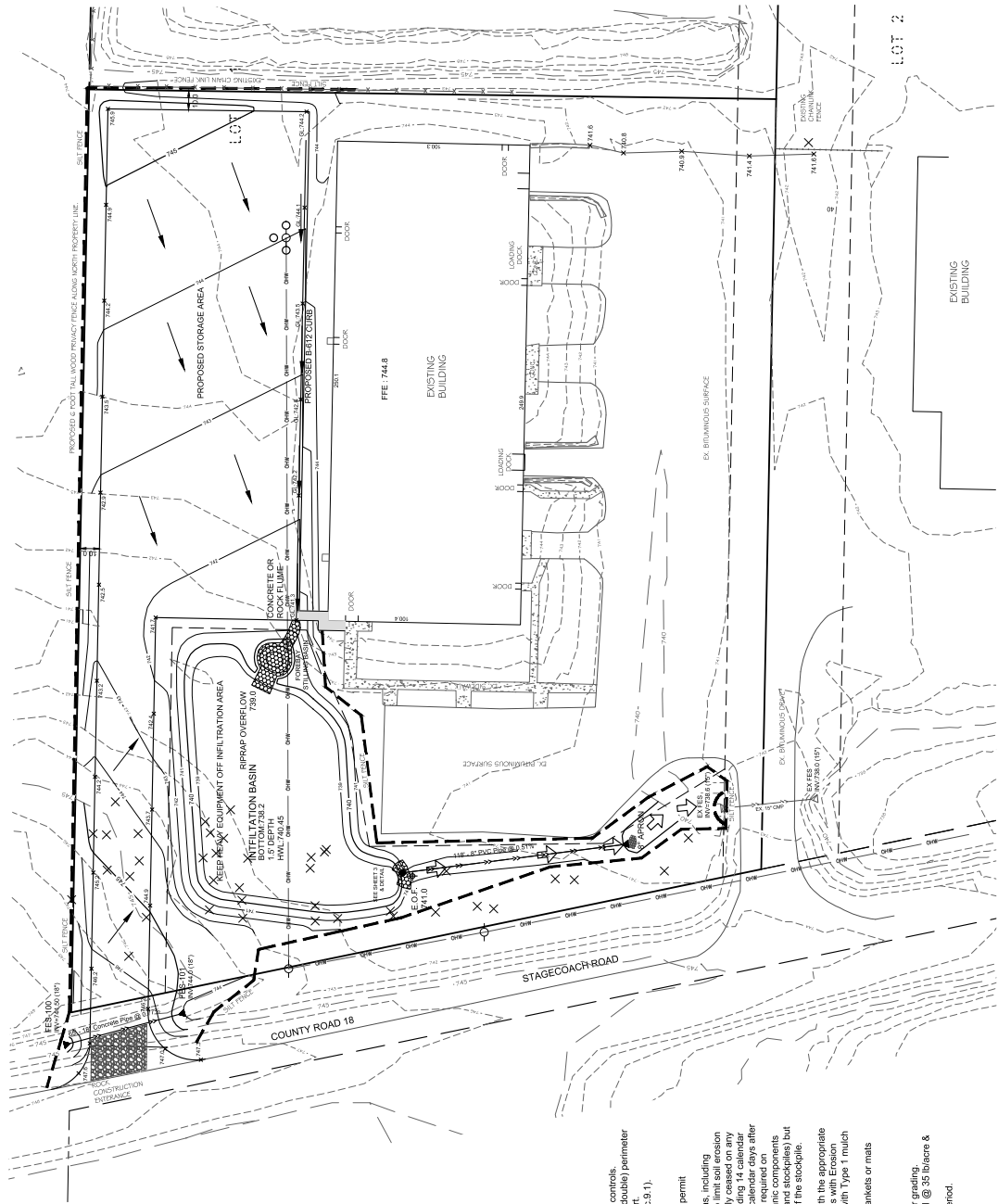
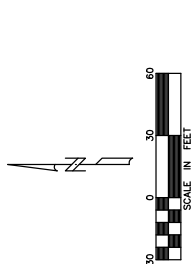
LOT 1, BLOCK 1, PATCH 1ST ADD'N

SHAKOPEE, MINNESOTA

SHEET

3

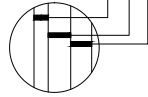
19



1. CONTRACTOR SHALL KEEP ADJACENT STREETS FREE OF DEBRIS AND PREVENT OFF-SITE TRACKING OF DEBRIS IN CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED AT EACH CONSTRUCTION ENTRANCE.
2. CONTRACTOR SHALL NOTIFY GARDNER STATE ONE CALL AT 800-282-1168, 48 HOURS PRIOR TO ANY EXCAVATION.
3. STOCKPILES SHALL BE PROTECTED WITH PERMETER CONTROL BMPs (SILT FENCE OR EQUIVALENT).
4. CONTRACTOR SHALL OBTAIN ANY PERMITS NECESSARY FOR THE WORK.
5. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITIES COMPLY WITH THE NPDES PERMIT AND SHALL SUBMIT A CONSTRUCTION PHASING PLAN, INCLUDING BUT NOT LIMITED TO DETERMINING OPERATIONS.
6. EROSION CONTROL DEVICE LOCATIONS AND TIMING SUBJECT TO CONSTRUCTION PHASING.
7. INLET PROTECTION SHALL BE INSTALLED ACCORDING TO THE NPDES PERMIT THROUGHOUT CONSTRUCTION.
8. SITE SHALL BE SEEDED AND MULCHED ACCORDING TO THE CONSTRUCTION STAGING NOTES.
9. INSTALLATION SCHEDULE SHALL COMPLY WITH THE NPDES PERMIT SECTION 6.1 - EROSION PREVENTION PRACTICES, 9.1 SEDIMENT CONTROL PRACTICES, AND SECTION 3 (EROSION AND SEDIMENT CONTROL) OF THE CITY'S DESIGN CRITERIA.
10. SLOPES GREATER THAN OR EQUAL TO 3:1 SHALL HAVE APPROVED EROSION CONTROL BEST MANAGEMENT PRACTICES INSTALLED IMMEDIATELY AFTER FINISHED GRADE.
11. INFILTRATION BASINS AND/OR SWALES SHALL BE PROTECTED AFTER CONSTRUCTION. KEEP HEAVY EQUIPMENT OFF THE INF. BASINS AFTER CONSTRUCTION.
12. PERMETER/DOWNGRADE SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHOULD BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.

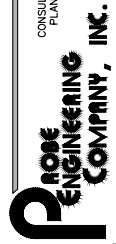
X DENOTES EXISTING TREE LOCATION.
REFER TO TREE PLAN FOR MORE INFORMATION.

SECTION DETAIL FOR STORAGE AREA



CONSTRUCTION STAGING:

- Stage 1:
- Remove vegetation as necessary to construct perimeter controls.
 - Place perimeter sediment controls. Provide redundant (double) perimeter sediment controls (per NPDES 9.17) with at least 5' apart.
 - Install and maintain a vehicle tracking BMP (NPDES Sec 9.1).
- Stage 2:
- Construct roads and site grading and follow the NPDES permit requirements.
 - NPDES Section 8.4: Must stabilize all exposed soil areas, including stockpiles. Stockpiles shall be stabilized immediately after construction activity has been completed. Stabilization shall be based on a portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed no later than 14 calendar days after the construction activity has ceased. Stabilization is not required on areas that are not exposed to erosion (e.g., clean aggregate stockpiles, concrete stockpiles, sand stockpiles) but permittees must provide sediment controls at the base of the stockpile.
 - Maintain perimeter controls.
 - After completion of grading terms, seed upland areas with the appropriate seed mixture (MNDOT Seed Mixture 35-261 @ 35 lbs/acre & MNDOT Blanket). Stabilize non-concentrated flow areas with Type 1 mulch at 2 tons/acre and disc anchor.
 - Stabilize concentrated flow areas with erosion control blankets or mats according to MNDOT Spec. 3655 & 2.075.
- Stage 3:
- Place infiltration areas planting mixture immediately after grading.
 - Seed infiltration areas with MNDOT Seed Mixture 35-261 @ 35 lbs/acre & MNDOT Blanket.
 - Protect infiltration areas throughout the establishment period.
- Stage 4:
- Maintain BMPs throughout construction.
 - Obtain final stabilization in areas where possible.
 - Final stabilization is directed per the NPDES permit and City Standards.



CONSULTING ENGINEERS,
PLANNERS AND LAND SURVEYORS

1000 EAST 14TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 7/26/2022 REV: NO. 45895

REVISIONS

NO.	DESCRIPTION	DATE

PREPARED FOR:

NW ASPHALT

DESIGNED

CHECKED

DATE

8-3-22

SCALE

AS SHOWN

JOB NO.

17091.00

GRADING PLAN

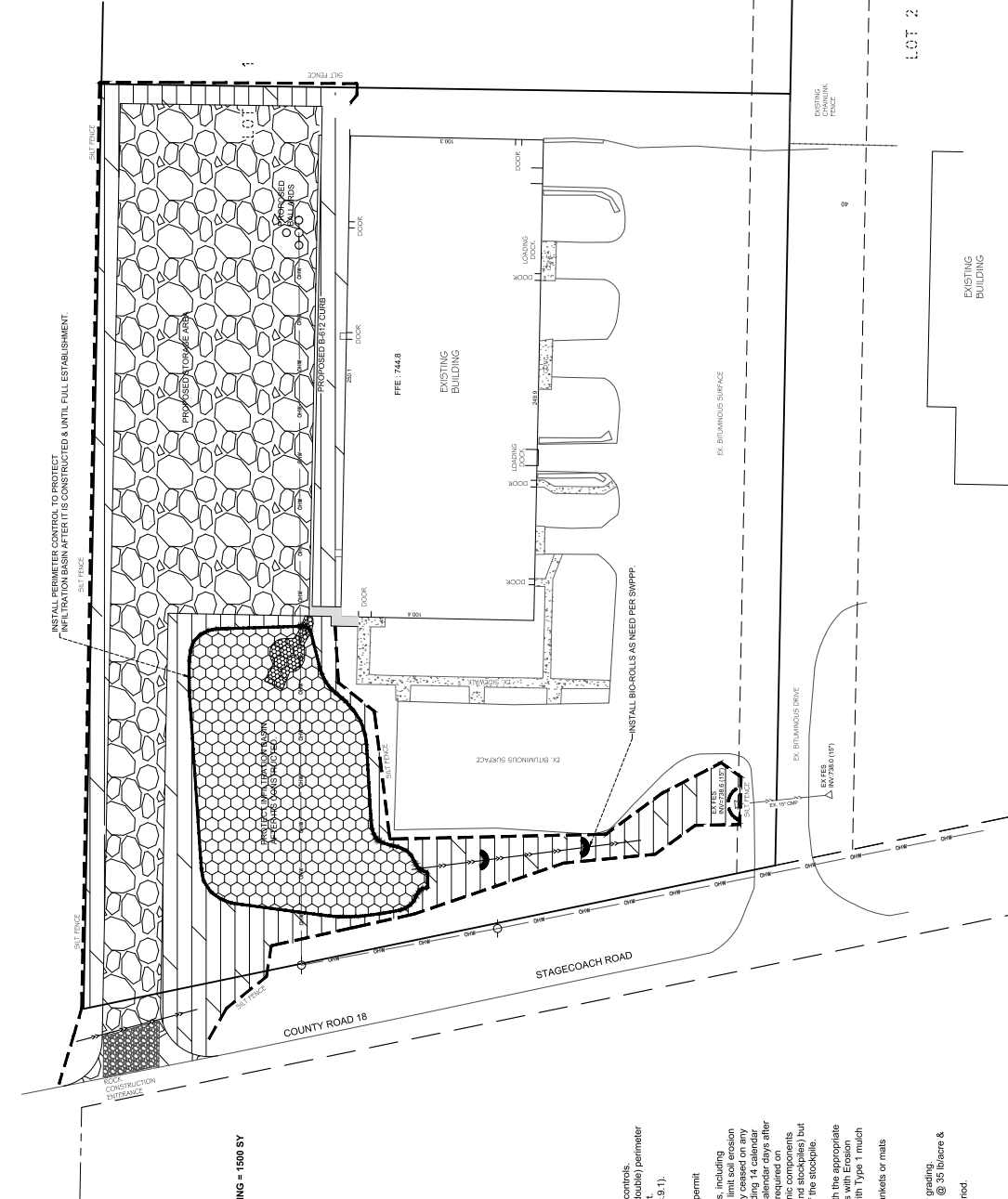
LOT 1, BLOCK 1, PATCH 1ST ADD'N

SHEET

4

19

MINNESOTA



ESTIMATED QUANTITIES:
SEED MIX 35-261 = 1500 SF
MINI DOT SEED MIX 35-261 = 1500 SF
BIOTOPIC SEED MIX 35-261 = 1500 SF
MINI DOT SEED MIX 35-261 = 1500 SF
EROSION CONTROL BLANKET CAT. 20 VINYL NETTING = 1500 SF
STORAGE AREA = 33,550 SQ. FT.

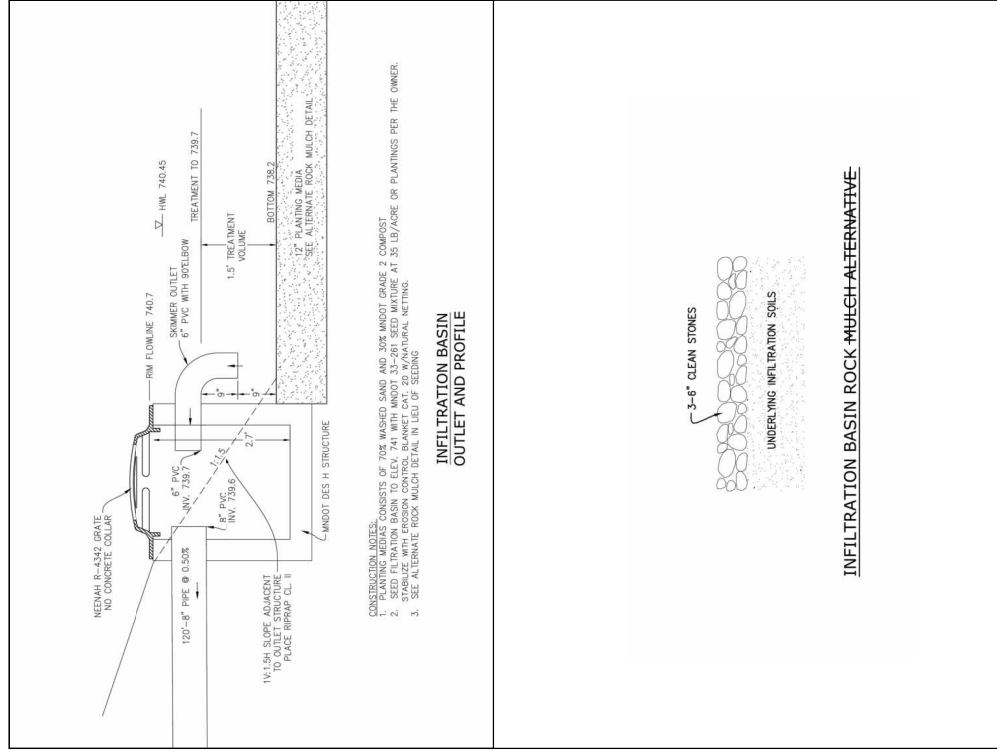
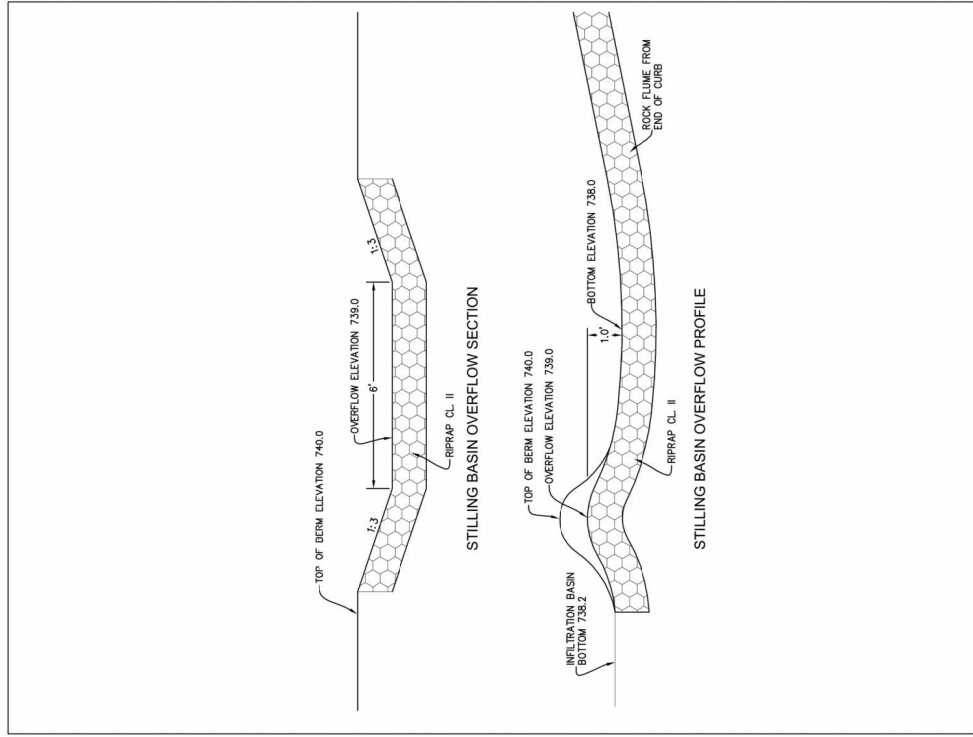
CONSTRUCTION STAGING:

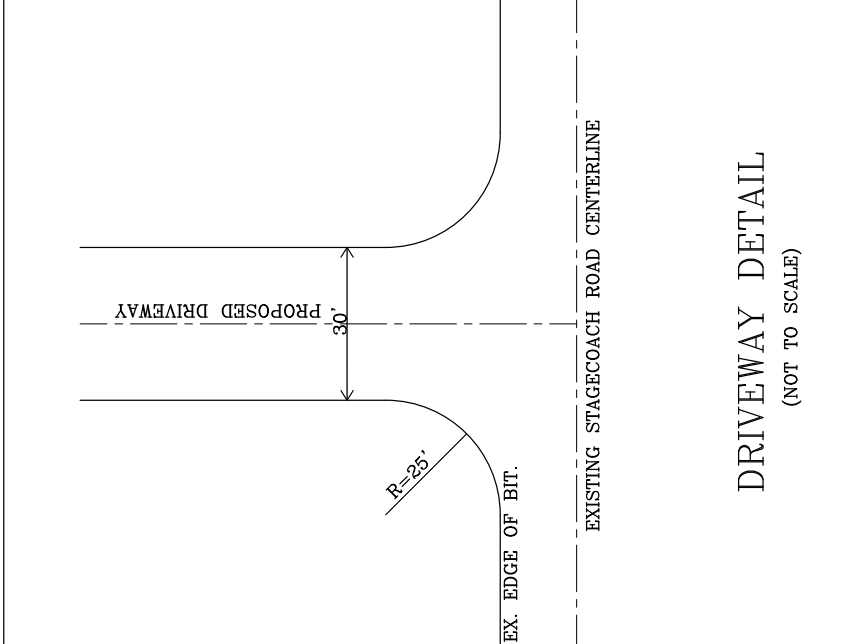
- Stage 1:
- Remove vegetation as necessary to establish perimeter controls.
 - Place perimeter sediment controls. Provide redundant (double) perimeter sediment controls (per NPDES 9.17) with at least 5' apart.
 - Install and maintain a vehicle tracking BMP (NPDES Sec 5.1).
- Stage 2:
- Construct roads and site grading and follow the NPDES permit requirements.
 - NPDES Section 8.4: Must stabilize all exposed soil areas, including stockpiles. Stabilization must be initiated immediately to prevent erosion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed no later than 14 calendar days after the construction activity has ceased. Stabilization is not required on areas that are not exposed to erosion (e.g., clean aggregate stockpiles, concrete stockpiles, sand stockpiles) but permittees must provide sediment controls at the base of the stockpile.
 - Maintain perimeter controls.
 - Minimize erosion of grading forms, seed upland areas with the appropriate MODO Blanket. Stabilize non-concentrated flow areas with Type 1 mulch at 2 tons/acre and disc anchor.
 - Stabilize concentrated flow areas with erosion control blankets or mats according to MODO Spec. 3655 & 2.575.
- Stage 3:
- Place infiltration areas planting mixture immediately after grading.
 - Seed infiltration areas with MODO Seed Mixture 35-261 @ 35 lbs/acre & MODO Seed Mixture 35-261 @ 35 lbs/acre.
 - Protect infiltration areas throughout the establishment period.
- Stage 4:
- Maintain BMPs throughout construction.
 - Obtain final stabilization in areas where possible.
 - Final stabilization is directed per the NPDES permit and City Standards.

1. CONTRACTOR SHALL KEEP ADJACENT STREETS FREE OF DEBRIS AND PREVENT OFF-SITE TRACKING OF DEBRIS IN ADJACENT STREETS. STOCKPILES SHALL BE INSTALLED AND MAINTAINED AT EACH CONSTRUCTION ENTRANCE.
2. CONTRACTOR SHALL NOTIFY GARDNER STATE ONE CALL AT 800-252-1166, 48 HOURS PRIOR TO ANY EXCAVATION.
3. STOCKPILES SHALL BE PROTECTED WITH PERIMETER CONTROL BMPs (SILT FENCE OR EQUIVALENT).
4. CONTRACTOR SHALL OBTAIN ANY PERMITS NECESSARY FOR THE WORK.
5. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITIES COMPLY WITH THE NPDES PERMIT AND SHALL SUBMIT A CONSTRUCTION PHASING PLAN, INCLUDING BUT NOT LIMITED TO Dewatering Operations.
6. EROSION CONTROL DEVICE LOCATIONS AND TIMING SUBJECT TO CONSTRUCTION PHASING.
7. INLET PROTECTION SHALL BE INSTALLED ACCORDING TO THE NPDES PERMIT THROUGHOUT CONSTRUCTION. INSTALL INLET PROTECTION AROUND UPGRADE FEES, CONSTRUCTION STAGING NOTES.
8. SITE SHALL BE SEEDED AND MULCHED ACCORDING TO THE PERMIT SECTION 8.1 - EROSION PREVENTION PRACTICES, 9.1 SEDIMENT CONTROL PRACTICES, AND SECTION 3 (EROSION AND SEDIMENT CONTROL) OF THE CITY'S DESIGN CRITERIA.
10. SLOPES GREATER THAN OR EQUAL TO 3:1 SHALL HAVE APPROVED EROSION CONTROL BEST MANAGEMENT PRACTICES INSTALLED IMMEDIATELY AFTER FINISHED GRADE.
11. INFILTRATION BASINS AND/OR SWALES SHALL BE PROTECTED AFTER CONSTRUCTION. KEEP HEAVY EQUIPMENT OFF THE INF. BASINS AFTER CONSTRUCTION.
12. PERIMETER DOWNGRADE SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHOULD BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.
13. PER INFILTRATION DETAIL, ALTERNATE ROCK MULCH MAY BE USED IN LIEU OF MODO 35-261 SEEDING & BLANKET. REFER TO DETAIL.

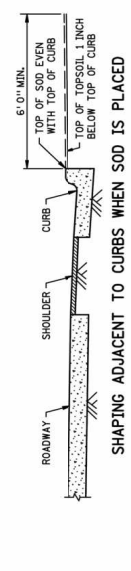
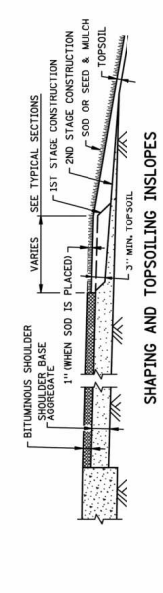
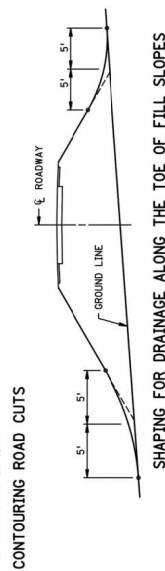
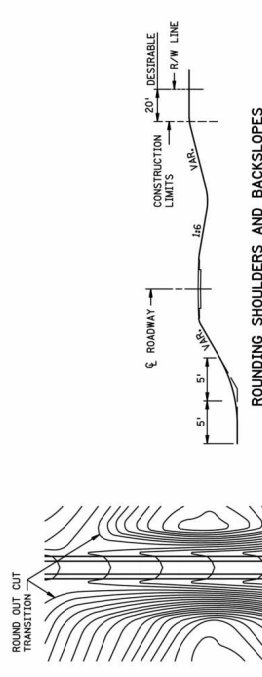
DENOTES MODO SEED MIX 35-261
WITH CAT. 20 VINYL NETTING BLANKET

DENOTES MODO SEED MIX 25-131

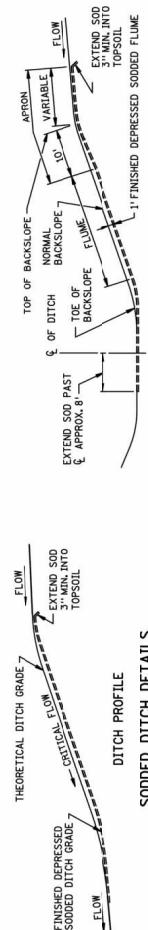
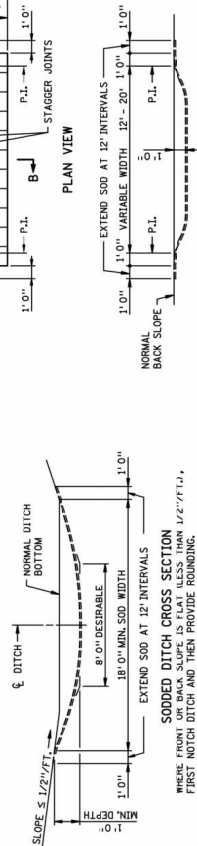
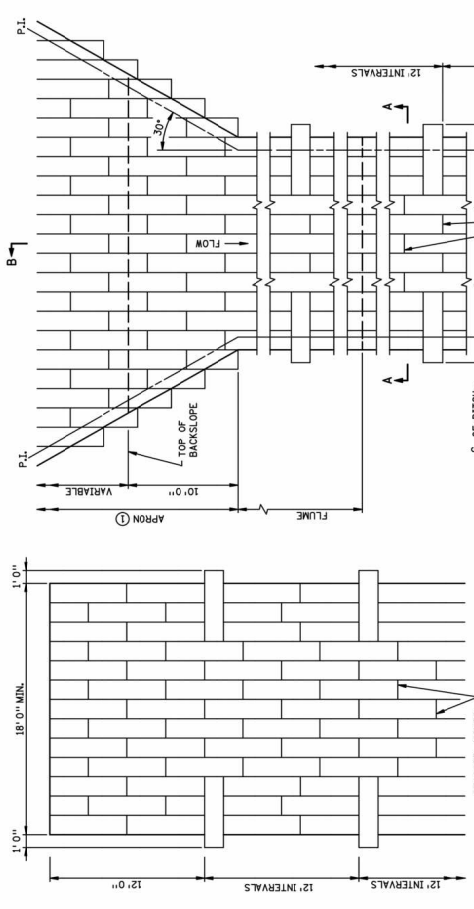




DETAIL SHEET LOT 1, BLOCK 1, PATCH 1ST ADD'N	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">SHEET</td> <td style="width: 50%; padding: 2px;">REV.</td> </tr> <tr> <td style="text-align: center; padding: 2px;">9</td> <td style="text-align: center; padding: 2px;">19</td> </tr> </table>	SHEET	REV.	9	19
SHEET	REV.				
9	19				



NOTES:
SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.
① CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.



SODDED FLUME DETAILS

m MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.404 1 OF 3

APPROVED: 2-28-2017
REVISED: 2-28-2017

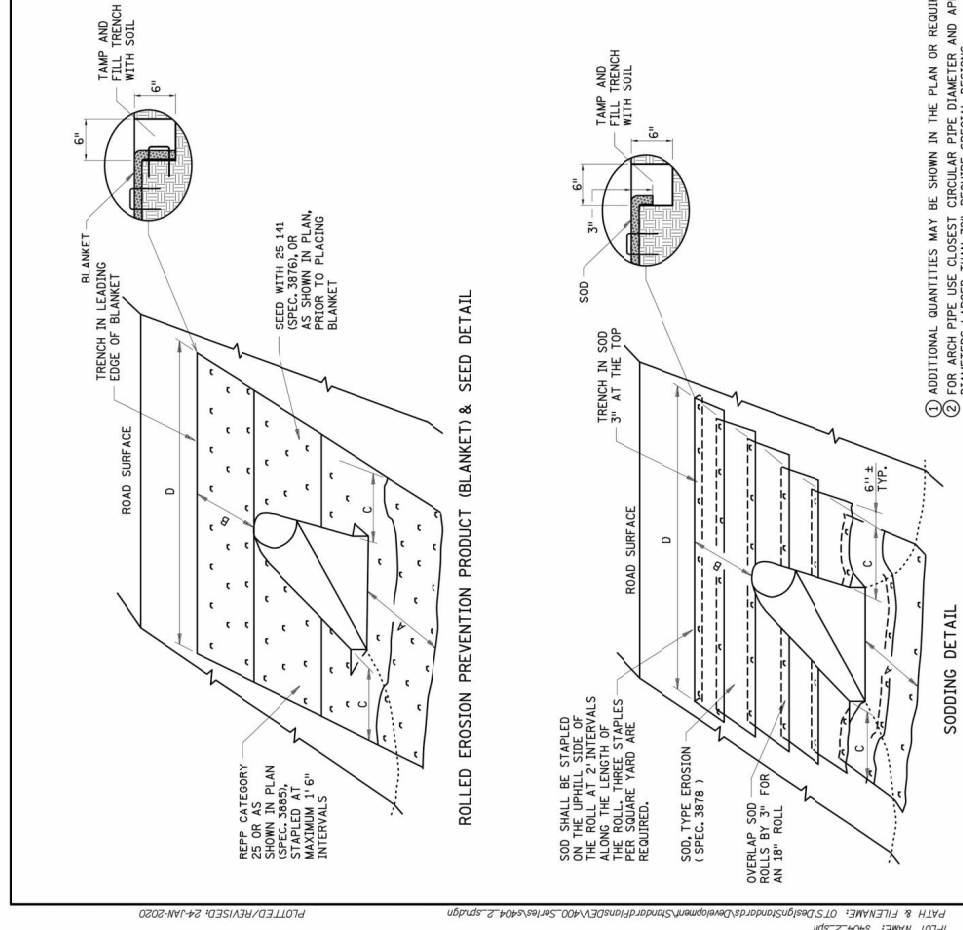
STATE PROJ. NO. SHEET NO. OF SHEETS

PROFESSIONAL ENGINEERING
PLANNERS AND LAND SURVEYORS

1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

REVISION	DATE	BY	CHKD

PREPARED FOR: NW ASPHALT



CULVERT INLET APRON ①

CULVERT DIAMETER ②	SOD OR REPP (SQ. YDS.)									
	CIRCULAR METAL APRON (PLATE 3122)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)
15"	9	9	9	9	9	9	9	9	9	9
18"	13	12	12	12	12	12	12	12	12	12
21"	14	14	14	14	14	14	14	14	14	14
24"	16	16	16	16	16	16	16	16	16	16
27"	18	18	18	18	18	18	18	18	18	18
30"	21	21	21	21	21	21	21	21	21	21
36"	34	34	34	34	34	34	34	34	34	34
42"	43	40	40	40	40	40	40	40	40	40
48"	54	50	50	50	50	50	50	50	50	50
54"	63	59	59	59	59	59	59	59	59	59
60"	69	63	63	63	63	63	63	63	63	63
66"	78	72	72	72	72	72	72	72	72	72
72"	88	81	81	81	81	81	81	81	81	81

CULVERT OUTLET APRON ①

CULVERT DIAMETER ②	SOD OR REPP (SQ. YDS.)									
	CIRCULAR METAL APRON (PLATE 3122)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)	CIRCULAR ARCH PIPE (PLATE 3100)
15"	10	10	10	10	10	10	10	10	10	10
18"	13	12	12	12	12	12	12	12	12	12
21"	14	14	14	14	14	14	14	14	14	14
24"	16	16	16	16	16	16	16	16	16	16
27"	18	18	18	18	18	18	18	18	18	18
30"	21	21	21	21	21	21	21	21	21	21
36"	34	34	34	34	34	34	34	34	34	34
42"	43	40	40	40	40	40	40	40	40	40
48"	54	50	50	50	50	50	50	50	50	50
54"	63	59	59	59	59	59	59	59	59	59
60"	69	63	63	63	63	63	63	63	63	63
66"	78	72	72	72	72	72	72	72	72	72
72"	88	81	81	81	81	81	81	81	81	81

NOTES:

REPP = ROLLED EROSION PREVENTION PRODUCT.

AREA SHOWN IN SQUARE YARDS IS FOR ONE CULVERT END.

QUANTITIES ARE CALCULATED TO INCLUDE SOD REQUIRED TO PROVIDE A 3" OVERLAP ON ALL 18" WIDE ROLLS. THIS ALLOWS FOR SHRINKAGE OF THE SOD.

FOR PIPE ARCHES USE EQUIVALENT PIPE DIAMETER TO APPROXIMATE AREA.

FOR CORRUGATED POLYETHYLENE PIPE METAL APRON (PLATE 3129), USE THE METAL APRON COLUMN (PLATE 3123).

AREAS AND DIMENSIONS ARE APPROXIMATE AND ARE BASED ON APRON SIDE SLOPES OF NO STEEPER THAN 1:2, UNLESS INDICATED AS FOR SAFETY APRONS.

CARE SHOULD BE TAKEN IN SELECTING SOD TO STABILIZE THE APRON. RIP-RAP SHOULD BE USED FOR FLOW VELOCITIES GREATER THAN 6 FPS.

- ① ADDITIONAL QUANTITIES MAY BE SHOWN IN THE PLAN OR REQUIRED BY THE ENGINEER.
- ② FOR ARCH PIPE USE CLOSEST CIRCULAR PIPE DIAMETER AND APRON SLOPE.

REVISION:
APPROVED: JANUARY 8, 2020
M. K. K...
M. K. K...
M. K. K...

MINNESOTA
DEPARTMENT
TRANSPORTATION

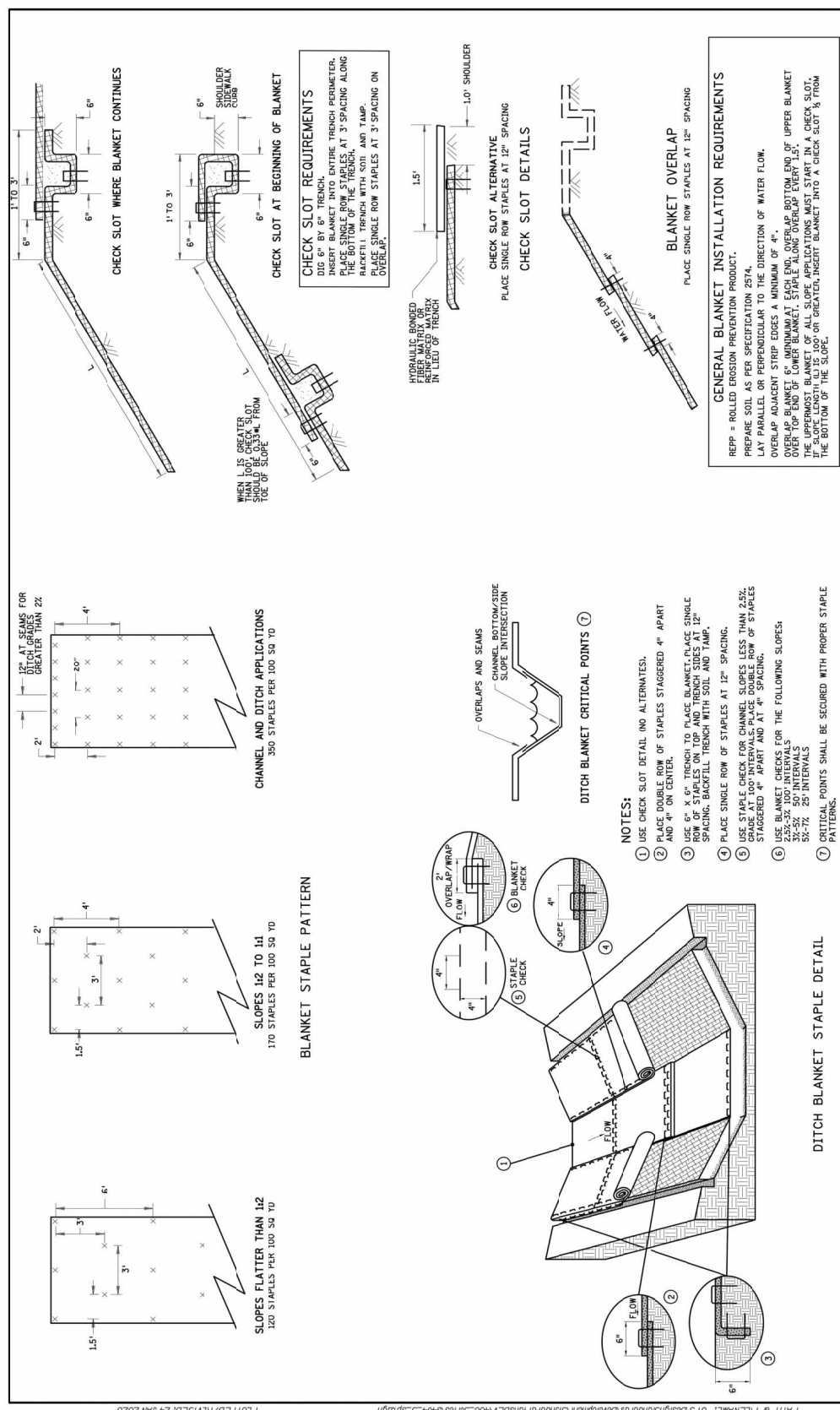
STANDARD PLAN 5-297.404 2 OF 3
APPROVED: 1-8-2020
REVISED:
STATE PROJ. NO. SHEET NO. OF SHEETS

PERMANENT EROSION CONTROL
TURF ESTABLISHMENT DETAIL AT CULVERT ENDS
(T.H.) SHEET NO. OF SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PREPARED FOR: NW ASPHALT

DESIGNED: CHECKED: DATE: SCALE: AS SHOWN JOB NO. 11000-00



REVISION APPROVED: JANUARY 8, 2020 <i>Mike Savard</i> MAINE LANDSCAPE ARCHITECT DIST. OF MINNESOTA		STANDARD PLAN 5-297.404 3 OF 3 APPROVED: 1-8-2020 REVISOR:		PERMANENT EROSION CONTROL REPP (BLANKET) STAPLE PATTERN FOR SLOPES	
PLANT NAME: 8404 3.spr PATH & FILENAME: 075\Design\Standard\Development\Shindor\Drawings\400_Series\8404_3.spr		STATE PROJ. NO.		SHEET NO. OF SHEETS	

PROFESSIONAL ENGINEERING
PLANNERS AND LAND SURVEYORS
COMPANY, INC.
 1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

CONSULTING ENGINEERS,
 PLANNERS AND LAND SURVEYORS

DESIGNED: []
 DRAWN: []
 SCALE: 6"=25'
 JOB NO.: 17001.00

DATE: 6-2-23
 ASSESSOR: []
 JOB NO.: 17001.00

DESIGNED: []
 DRAWN: []
 SCALE: 6"=25'
 JOB NO.: 17001.00

DATE: 6-2-23
 ASSESSOR: []
 JOB NO.: 17001.00

DESIGNED: []
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 SCALE: 6"=25'
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DATE: 6-2-23
 ASSESSOR: []
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 SCALE: 6"=25'
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 SCALE: 6"=25'
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DATE: 6-2-23
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DESIGNED: []
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 SCALE: 6"=25'
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DATE: 6-2-23
 ASSESSOR: []
 JOB NO.: 17001.00

DESIGNED: []
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 JOB NO.: 17001.00

DATE: 6-2-23
 ASSESSOR: []
 JOB NO.: 17001.00

DESIGNED: []
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 JOB NO.: 17001.00

DATE: 6-2-23
 ASSESSOR: []
 JOB NO.: 17001.00

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 JOB NO.: 17001.00

DATE: 6-2-23
 ASSESSOR: []
 JOB NO.: 17001.00

DESIGNED: []
 DRAWN: []
 SCALE: 6"=25'
 JOB NO.: 17001.00

DATE: 6-2-23
 ASSESSOR: []
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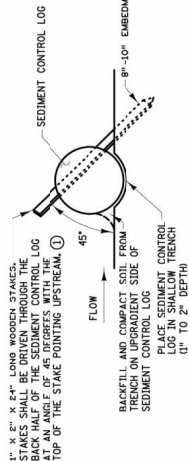
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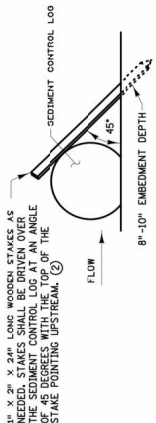
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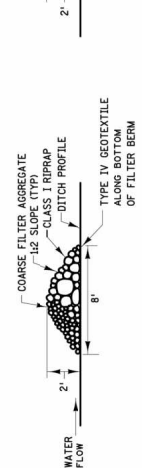


TYPES: STRAW, WOOD CHIP, OR COMPOST

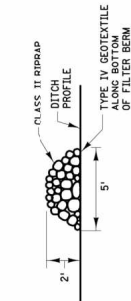


TYPES: WOOD CHIP, COMPOST, OR ROCK

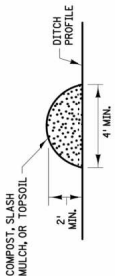
SEDIMENT CONTROL LOGS



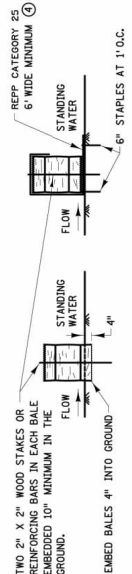
TYPE 3 (ROCK WEEPER)



TYPE 5 (ROCK)
FILTER BERMS



TYPE 1 (COMPOST), TYPE 2 (SLASH MULCH), OR TYPE 4 (TOPSOIL)



EMBEDMENT METHOD
BALE BARRIERS

NOTES:

- REPP = ROLLED EROSION PREVENTION PRODUCT. SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.
- SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS OR 2' FOR OTHER APPLICATIONS.
- PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
- TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS 18" ABOVE THE LOGS. LOGS SHALL BE PLACED ON TOP OF THE LOGS. LOGS SHALL BE 1' X 2' X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
- INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE. PLACE STAKE THROUGH BALE AND BLANKET.

REVISION:
APPROVED: JANUARY 8, 2020
MARK LARSEN
CHIEF ENVIRONMENTAL OFFICER

MINNESOTA
DEPARTMENT OF
TRANSPORTATION

STANDARD PLAN 5-297.405 2 OF 8
APPROVED: 1-8-2020
REVISOR: 1-8-2020
STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

TEMPORARY SEDIMENT CONTROL
FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS

PROFESSIONAL ENGINEERING
PLANNERS AND LAND SURVEYORS
1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED ENGINEER UNDER
THE LAWS OF THE STATE OF MINNESOTA.

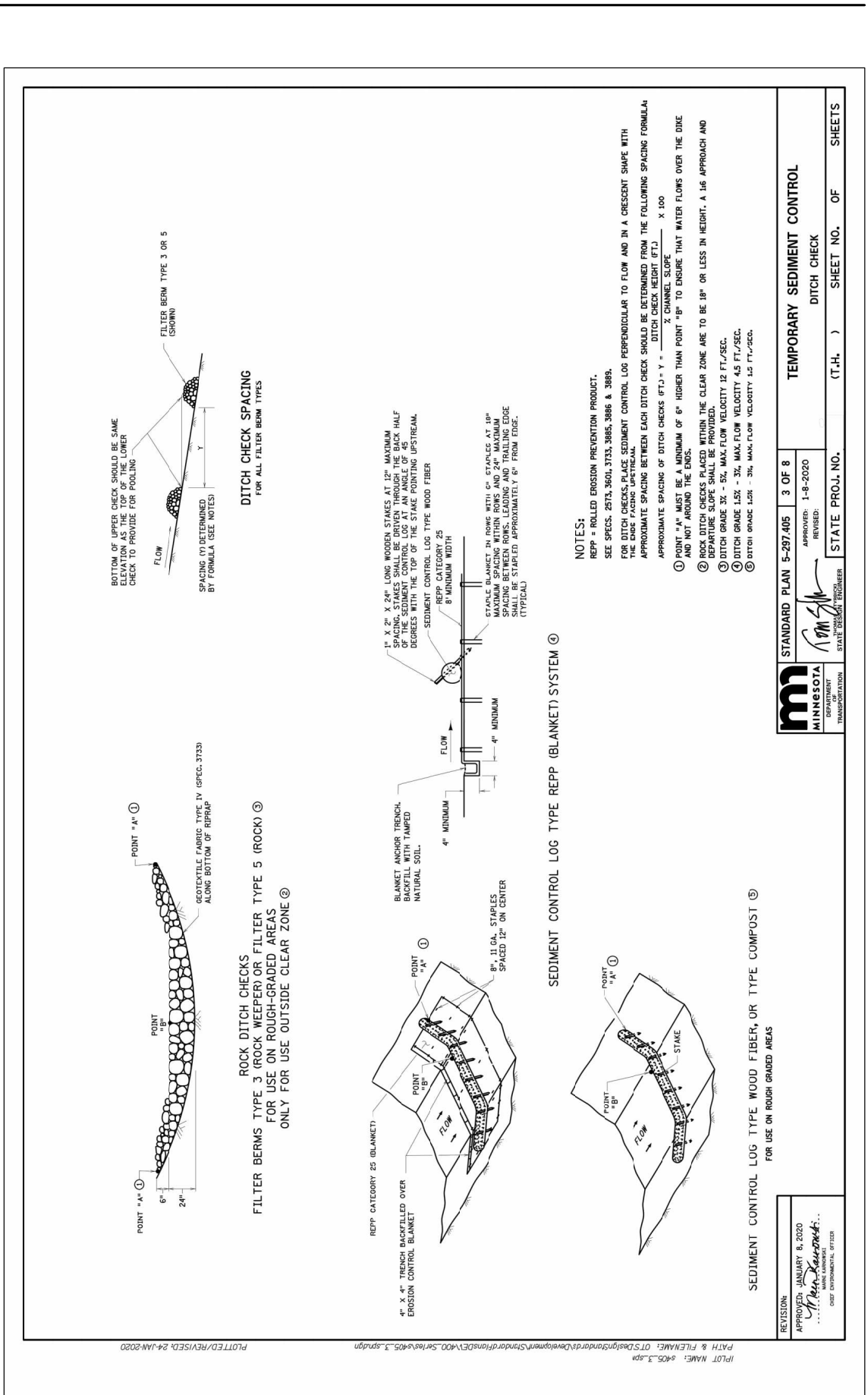
REVISIONS

PREPARED FOR:
NW ASPHALT

DESIGNED: CHECKED:
DRAWN: DATE: 6-2-23
SCALE: AS SHOWN
JOB NO.: 17001.03
SHEET NO.: 13
MINNESOTA: 19

DETAIL SHEET
LOT 1, BLOCK 1, PATCH 1ST ADD'N

SHAKOPEE.



PROFESSIONAL ENGINEERING

PLANNERS AND LAND SURVEYORS

1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

SHAKOPEE, MINNESOTA

CONSULTING ENGINEERS, PLANNERS AND LAND SURVEYORS

DETAIL SHEET

LOT 1, BLOCK 1, PATCH 1ST ADD'N

19

14

REVISIONS

DATE

BY

REASON

1

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4

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10

1. I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE

REV. NO.

PREPARED FOR

NW ASPHALT

DESIGNED

CHECKED

DRAWN

DATE

SCALE

AS SHOWN

JOB NO.

17081.00

MINNESOTA DEPARTMENT OF TRANSPORTATION

STATE PROJECT ENGINEER

APPROVED

1-8-2020

REVISOR

STANDARD PLAN 5-297.405

3 OF 8

TEMPORARY SEDIMENT CONTROL

DITCH CHECK

STATE PROJ. NO.

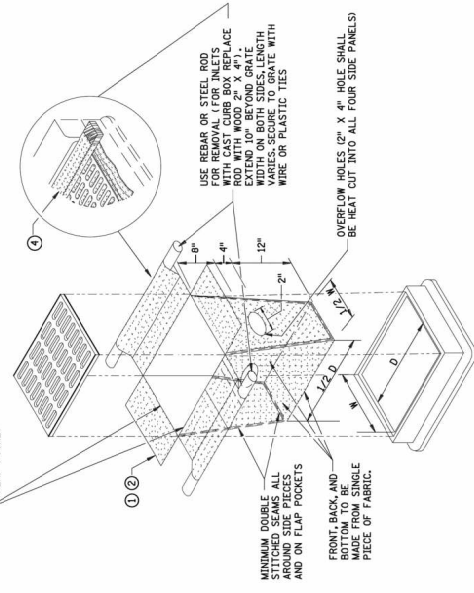
(T.H.)

SHEET NO.

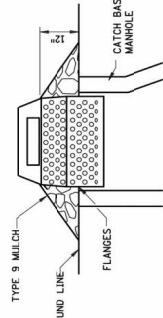
OF

SHEETS

INLET SPECIFICATIONS AS PER THE PLAN
DIMENSION LENGTH AND WIDTH TO MATCH
FLAP POCKET

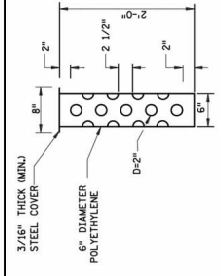


FILTER BAG INSERT ③
(CAN BE INSTALLED IN ANY INLET TYPE
WITH OR WITHOUT A CURB DOG)

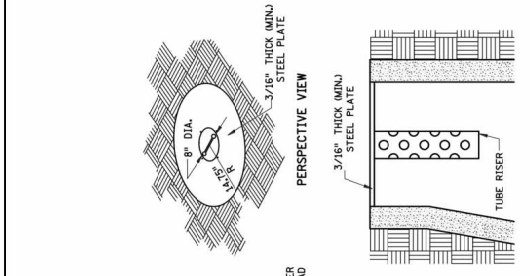


SEDIMENT CONTROL INLET HAT

NOTE:
THE SEDIMENT CONTROL BARRIER SHALL BE A METAL
OR PLASTIC/POLYETHYLENE RISER SIZED TO FIT INSIDE
THE CATCH BASIN/MANHOLE HAVE PERFORATIONS TO ALLOW
WATER TO PASS THROUGH AN OVERFLOW BARRIER,
FLANGES AND A LID/COVER.



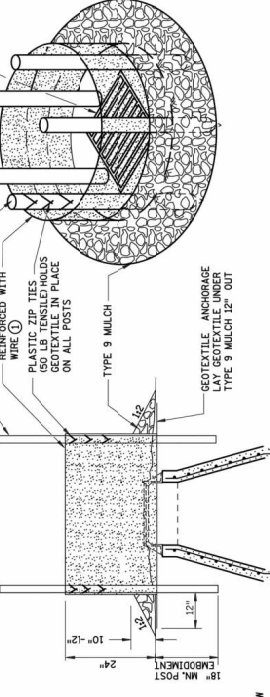
ROCK LOG/COMPOST LOG



POP-UP HEAD

SECTION
(UP POSITION)

SECTION
(DOWN POSITION)



SILT FENCE RING AND ROCK FILTER BERM
USE WHERE INLET DRAINS IN AN AREA WITH SLOPES AT 1:1 OR LESS

NOTES:
SEE SPECS. 2573, 3137, & 3886.
DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY
THAT WOULD IMPED TRAFFIC FLOW.
① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH
DIRECTIONS, MEETING SPEC. 3886.
② FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF
10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
③ INSTALLATION NOTES:
DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLower THAN 30 INCHES.
THE BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN
THE INLET WALLS AND THE BAG MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES.
TO ACHIEVE THE 3 INCH SIDE CLEARANCE, THE BAG USING PLASTIC ZIP TIES,
FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A
ROCK SOCK OR SAND BAG IN PLACE OF THE FLAP POCKETS.
④ SOCK HEIGHT MUST NOT BE 30 HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE
FLOODING OF THE ROADWAY.
⑤ GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER SEAM TO BE
JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A
CATCH BASIN/MANHOLE HAVE PERFORATIONS TO ALLOW WATER TO PASS THROUGH
AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE
CONFORMING TO SPEC. 3137 TABLE 3137-1 CA-3 GRADATION.

MINNESOTA
DEPARTMENT OF
TRANSPORTATION

STANDARD PLAN 5-297.405 4 OF 8
APPROVED: 2-28-2017
REVISED: 2-28-2017

STATE DESIGN ENGINEER
STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED ENGINEER UNDER
THE LAWS OF THE STATE OF MINNESOTA.

CONSULTING ENGINEERS,
PLANNERS AND LAND SURVEYORS
PROFESSIONAL ENGINEERING
COMPANY, INC.

1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

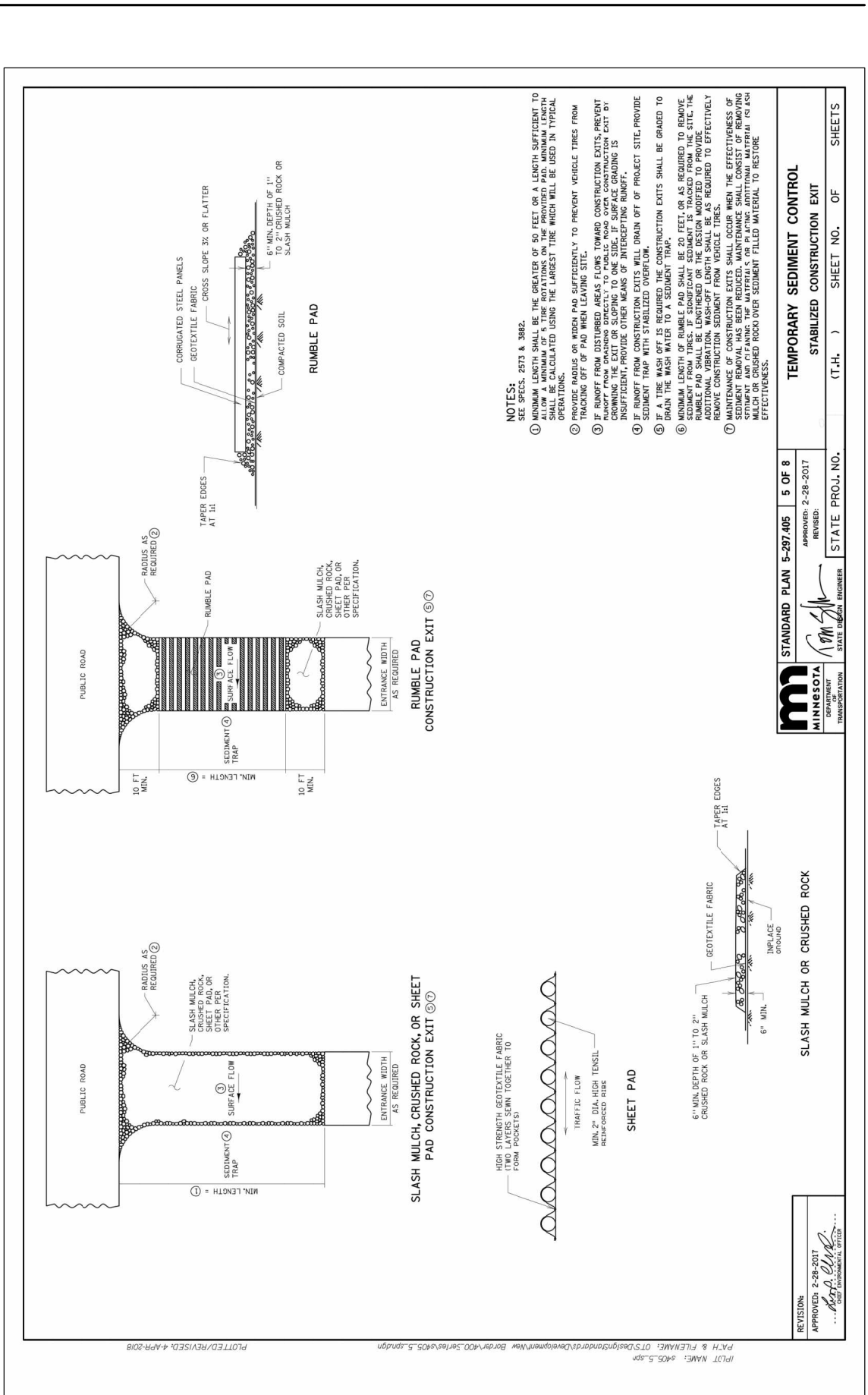
PREPARED FOR:
NW ASPHALT

DESIGNED: [Signature]
CHECKED: [Signature]
DATE: 6-2-23
SCALE: AS SHOWN
JOB NO. 11000-03

DETAIL SHEET

LOT 1, BLOCK 1, PATCH 1ST ADD'N

SHEET 15
REV. 19



PROBE ENGINEERING COMPANY, INC.

CONSULTING ENGINEERS, PLANNERS AND LAND SURVEYORS

1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

LOT 1, BLOCK 1, PATCH 1ST ADD'N

SHAKOPEE.

DETAIL SHEET

TEMPORARY SEDIMENT CONTROL

STABILIZED CONSTRUCTION EXIT

STANDARD PLAN 5-297.405 5 OF 8

APPROVED: 2-28-2017

DESIGNED: [Signature] CHECKED: [Signature]

DATE: 6-23

SCALE: AS SHOWN

JOB NO. 1709.00

DESIGNED: [Signature] CHECKED: [Signature]

DATE: 6-23

SCALE: AS SHOWN

JOB NO. 1709.00

REVISIONS

REVISION NO. _____

DATE _____

BY _____

DESCRIPTION _____

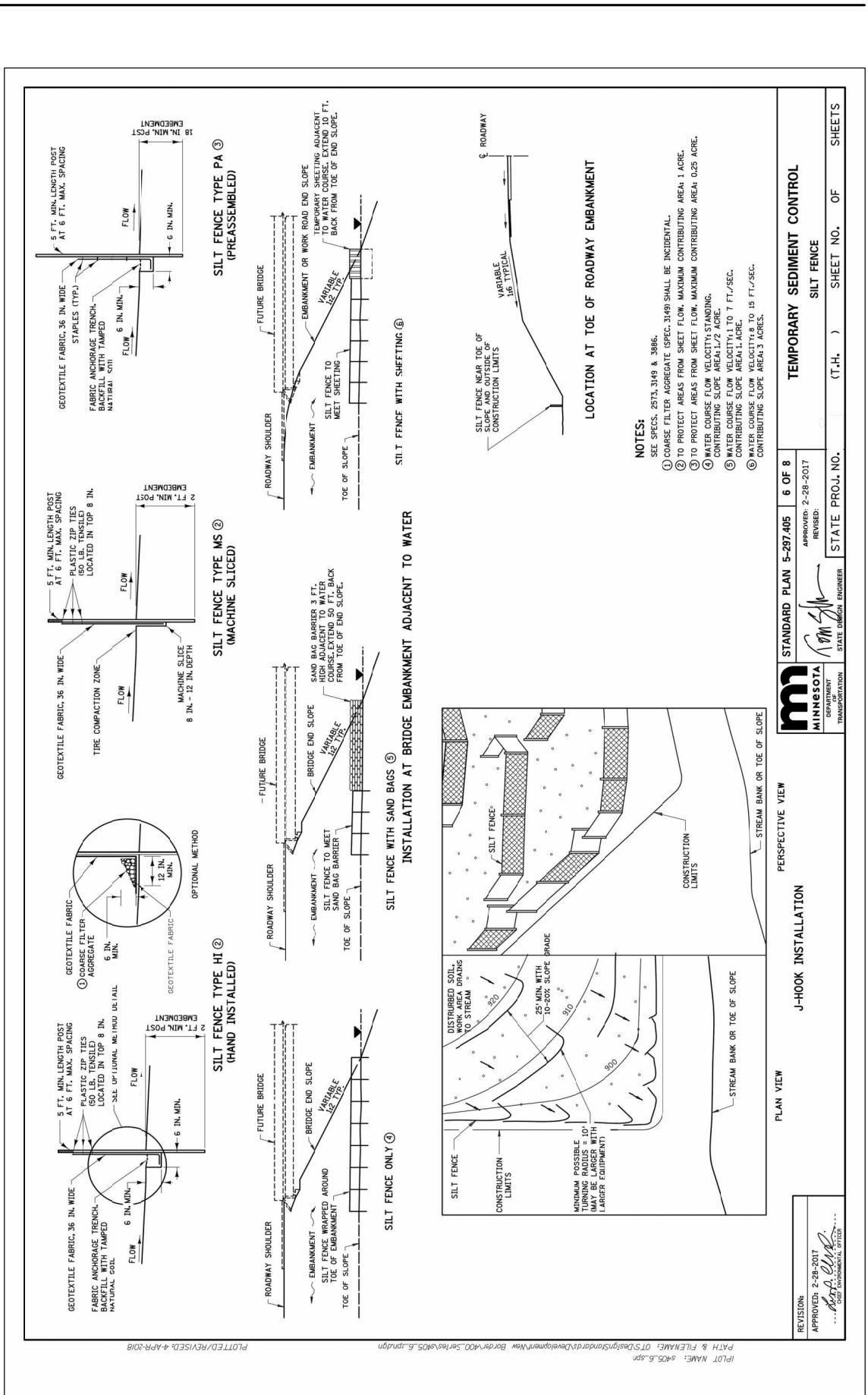
REVISIONS

REVISION NO. _____

DATE _____

BY _____

DESCRIPTION _____



PROFESSIONAL ENGINEERING
PLANNERS AND LAND SURVEYORS

1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

CONSULTING ENGINEERS,
PLANNERS AND LAND SURVEYORS

1000 EAST 146TH STREET, BURNSVILLE, MINNESOTA 55337 PH (952)432-3000

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CHECKED: [Signature]

DATE: 4-23-2018

SCALE: AS SHOWN

JOB NO. 17001.00

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	4-23-2018

PREPARED FOR: NW ASPHALT

DETAIL SHEET

LOT 1, BLOCK 1, PATCH 1ST ADD'N

SHAKOPEE, MINNESOTA

17

19

City of Shakopee Tree Preservation Ordinance

Definitions-

COMMON TREE. Any of the following trees: poplar, red maple, ash, elm, cedar, mulberry, balsam fir, birch, pine, spruce, tamarack, black locust; or other fast growing deciduous trees not listed as an exceptional tree. Trees that are not included in overall tree inventory and are not required to be replaced are ash, blackthorn, willow, fruit trees, cottonwood.

SIGNIFICANT TREE. A living specimen of a woody plant species that is either an exceptional tree whose diameter is 4 inches or greater DBH; a common tree whose diameter is six inches or greater DBH, or a multi-stem tree with 2 or more stems measuring four inches or greater in diameter measured above the root collar.

EXCEPTIONAL TREE. Any of the following trees: oak, hickory, basswood, sugar maple, black maple, cherry, catalpa, walnut, hackberry, hornbeam, coffee tree, butternut, buckeye, or horse chestnut.

HIGH PRIORITY TREE. An exceptional tree 15 inches DBH or greater, or any tree the city has a strong desire to preserve and is declared healthy by the city's staff.

A 'X' in the notes denotes a tree with 2 stems and respective diameters

All coordinates are in Scott County US Survey Feet.

Longitude	Latitude	HAE	Eastings	Northings	MSL	FeatureName	Species	Status	DBH	Cond	Tag	Notes	REMOVE/SAVE
-93.40639586	44.77987619	652.735	476698.943	212283.466	652.735	Tree	Cedar, red	SIGNIFICANT		10	Good	1201 Screen from street, 20 ft.	REMOVE
-93.40631765	44.77985091	653.959	476719.242	212274.228	653.959	Tree	Oak, bur	EXCEPTIONAL	14	Average	1202		REMOVE
-93.40623556	44.77987465	659.618	476740.567	212282.866	659.618	Tree	Elm, american	SIGNIFICANT	6	Average	1203		REMOVE
-93.40620042	44.77986111	664.485	476748.65	212277.914	664.485	Tree	Elm, american	SIGNIFICANT	9	Good	1204		REMOVE
-93.40622298	44.77980112	654.308	476743.847	212295.035	654.308	Tree	Cherry, black	SIGNIFICANT	6	Average	1205		REMOVE
-93.40615221	44.77990811	659.787	476762.225	212295.035	659.787	Tree	Oak, bur	HIGH PRIORITY	21	Good	1206		REMOVE
-93.40614991	44.77992729	657.194	476762.832	212302.027	657.194	Tree	Oak, bur	SIGNIFICANT	7	Average	1207	20 ft	REMOVE
-93.40608591	44.77985545	668.566	476775.401	212290.4	668.566	Tree	Cherry, black	SIGNIFICANT	6	Average	1208		REMOVE
-93.40601359	44.77973074	664.236	476775.301	212230.35	664.236	Tree	Cottonwood, eastern	EXEMPT	21	Good	1209		REMOVE
-93.40612568	44.77976697	655.562	476769.059	212243.568	655.562	Tree	Cottonwood, eastern	EXEMPT	17	Good	1210		REMOVE
-93.40614001	44.77972937	653.812	476763.257	212246.923	653.812	Tree	Cottonwood, eastern	EXEMPT	21	Good	1211		REMOVE
-93.40615889	44.77974051	648.086	476760.421	212233.928	648.086	Tree	Cottonwood, eastern	EXEMPT	17	Good	1212		REMOVE
-93.40619889	44.77971615	651.142	476750.073	212221.413	651.142	Tree	Walnut, black	SIGNIFICANT	8	Good	1213		REMOVE
-93.40618892	44.77973144	648.434	476752.631	212237.922	648.434	Tree	Cottonwood, eastern	EXEMPT	13	Good	1214		REMOVE
-93.4061982	44.77977004	647.479	476750.227	212244.707	647.479	Tree	Walnut, black	SIGNIFICANT	6	Good	1215		REMOVE
-93.40614967	44.77986239	658.4	476738.579	212278.552	658.4	Tree	Cottonwood, eastern	SIGNIFICANT	14	Good	1216	2x 7.7	REMOVE
-93.40633004	44.77974922	652.007	476738.579	212278.552	652.007	Tree	Cottonwood, eastern	EXEMPT	12	Good	1217		REMOVE
-93.40630248	44.77975881	649.502	476733.144	212241.374	649.502	Tree	Cottonwood, eastern	EXEMPT	14	Good	1218		REMOVE
-93.40625794	44.77971796	647.414	476734.694	212225.736	647.414	Tree	Walnut, black	SIGNIFICANT	6	Good	1219		REMOVE
-93.40628305	44.77971445	651.917	476728.172	212224.465	651.917	Tree	Cottonwood, eastern	EXEMPT	21	Average	1220		REMOVE
-93.40631018	44.77971315	651.526	476715.789	212224	651.526	Tree	Cottonwood, eastern	EXEMPT	38	Average	1221	2x 18.18	REMOVE
-93.40624256	44.77969596	645.387	476717.349	212186.247	645.387	Tree	Cottonwood, eastern	EXEMPT	30	Average	1222	2x 20.18. Screen from street.	REMOVE
-93.40615361	44.7797775	646.626	476718.621	212178.322	646.626	Tree	Cottonwood, eastern	EXEMPT	30	Good	1223	Screen from street	REMOVE
-93.4061875	44.7796684	655.179	476744.829	212188.859	655.179	Tree	Cottonwood, eastern	EXEMPT	20	Good	1224		REMOVE
-93.40618606	44.77965649	658.014	476743.11	212181.428	658.014	Tree	Cottonwood, eastern	EXEMPT	17	Good	1225		REMOVE
-93.40619007	44.77965147	646.614	476750.485	212188.351	646.614	Tree	Cottonwood, eastern	EXEMPT	17	Average	1226		REMOVE
-93.40581306	44.77953389	655.081	476754.608	212180.478	655.081	Tree	Elm, american	SIGNIFICANT	14	Good	1228		REMOVE
-93.40620469	44.77950218	645.424	476722.466	212147.075	645.424	Tree	Cottonwood, eastern	SIGNIFICANT	15	Good	1229	Screen from street	REMOVE
-93.40631462	44.77948789	666.583	476719.897	212145.513	666.583	Tree	Cottonwood, eastern	EXEMPT	38	Good	1230	Screen from street	REMOVE
-93.40630656	44.77942758	668.986	476721.956	212143.522	668.986	Tree	Cottonwood, eastern	EXEMPT	22	Good	1231	Post cond. trunk decay.	REMOVE
-93.40622423	44.77942215	649.06	476743.327	212117.874	649.06	Tree	Elm, siberian	SIGNIFICANT	11	Good	1232		REMOVE
-93.40629479	44.77937797	647.466	476724.988	212093.784	647.466	Tree	Cottonwood, eastern	EXEMPT	30	Good	1233	Screen from street	SAVE
-93.40629974	44.7793454	656.797	476723.693	212093.242	656.797	Tree	Cottonwood, eastern	EXEMPT	40	Average	1234	Screen from street, 2x 20.20.	SAVE
-93.40623945	44.77926657	650.78	476739.313	212061.154	650.78	Tree	Cottonwood, eastern	EXEMPT	23	Good	1235	Screen from street	SAVE
-93.4062414	44.77929229	657.981	476738.796	212051.208	657.981	Tree	Cottonwood, eastern	EXEMPT	83	Average	1236	Screen from street, 3x 38.25.20.	SAVE
-93.4062235	44.77910527	662.738	476743.302	212004.268	662.738	Tree	Cottonwood, eastern	EXEMPT	27	Good	1237	Screen from street	SAVE
-93.40615725	44.77907623	640.157	476760.585	211991.763	640.157	Tree	Cottonwood, eastern	EXEMPT	48	Good	1238		SAVE
-93.4047617	44.77890564	655.392	477122.921	211929.138	655.392	Tree	Cottonwood, eastern	EXEMPT	50	Good	1239		SAVE (IF CAN)
-93.40600416	44.78007354	661.716	476696.865	211935.425	661.716	Tree	Cottonwood, eastern	EXEMPT	45	Good		adjacent prop, but CRZ extends onto this prop.	SAVE
-93.40625246	44.77956876	651.075	476717.099	212171.338	651.075	Tree	Cottonwood, eastern	EXEMPT	19	Dead		Dead	REMOVE
-93.40628235	44.77957776	666.326	476728.451	212313.176	666.326	Tree	Walnut, black	HIGH PRIORITY	18	Good		adjacent prop, but CRZ extends onto this prop.	SAVE



LOT AREA : 157,946 SQ. FT
EX. BUILDING AREA : 25,065 SQ. FT
EX. DRIVEWAY AREA : 1,000 SQ. FT
EX. CONCRETE AREA : 403 SQ. FT
EX. BITUMINOUS AREA : 40,879 SQ. FT
PROPOSED IMPERVIOUS AREA : 11,676 SQ. FT
TOTAL IMPERVIOUS AREA : 110,676 SQ. FT (64.7%)

- 1 TREE REQUIRED PER 4,000 FT OF NEW IMPERVIOUS AREA. THEREFORE, A MINIMUM OF 9 TREES ARE REQUIRED.
- PROPOSED 2 "B" SPECIES (A MIX OF MAPLE AND AUSTRALIAN PINE) SHALL BE PLACED ON THE SITE. TREE SPECIES SHALL BE PER THE CITY STANDARDS AND SPECIFICATIONS.
- PROPOSED REPLACEMENT TREES ARE TO BE PLACED ALONG STAGECOACH ROAD PER CITY STANDARDS. LOCATIONS TO BE DETERMINED ON SITE.

○ DENOTES PROPOSED TREE LOCATION (SHOWN BELOW & REFER TO LANDSCAPE PLAN)

TREE INVENTORY

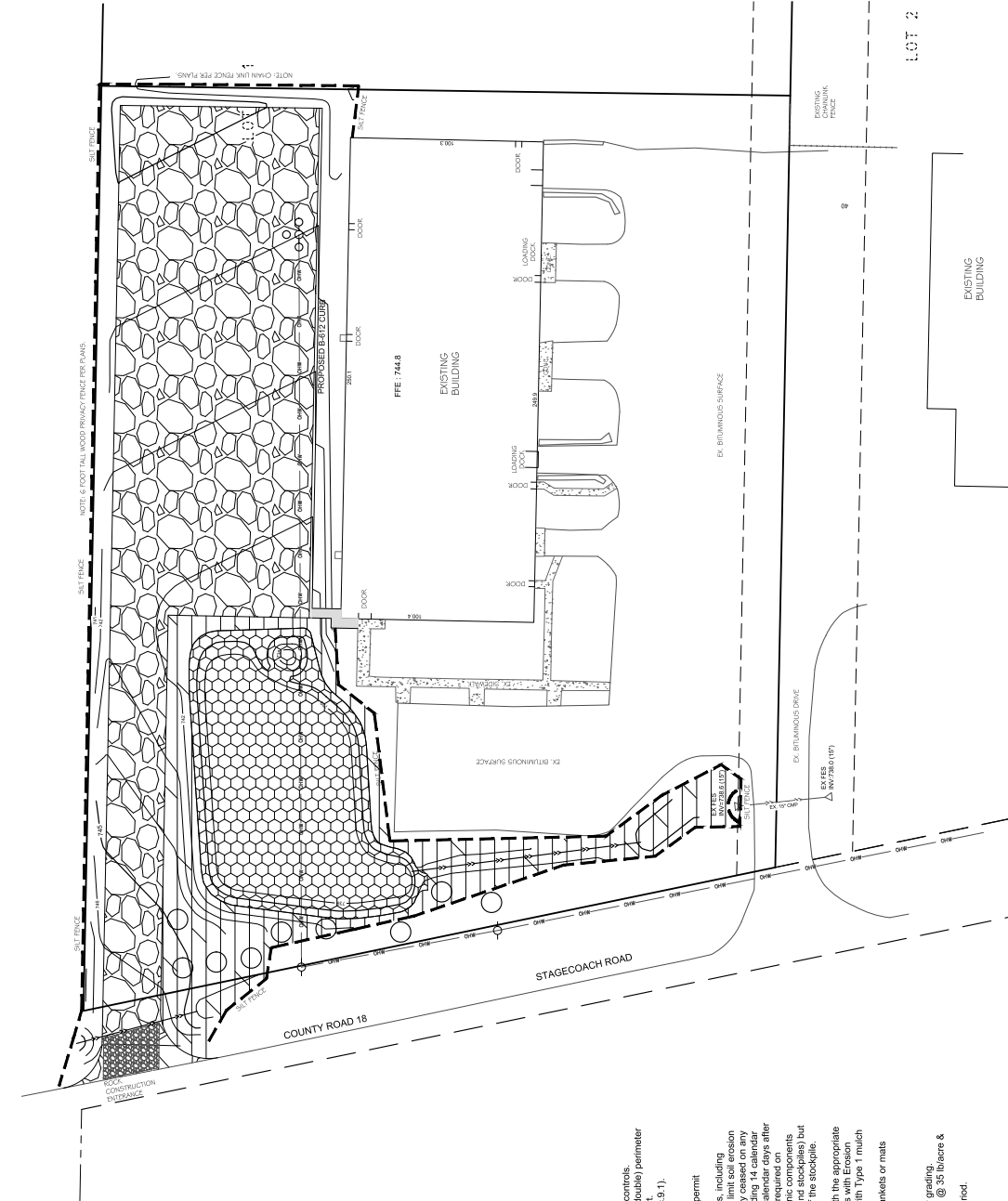


SITE:
1425 STAGECOACH RD
SHAKOPEE, MN

CLIENT:
PROBE
ENGINEERING

DATE: 6/13/2023





1. CONTRACTOR SHALL KEEP ADJACENT STREETS FREE OF DEBRIS AND PREVENT OFF-SITE TRACKING OF DEBRIS IN CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED AT EACH CONSTRUCTION ENTRANCE.
2. CONTRACTOR SHALL NOTIFY GORNER STATE ONE CALL AT 800-282-1168, 48 HOURS PRIOR TO ANY EXCAVATION.
3. STOCKPILES SHALL BE PROTECTED WITH PERIMETER CONTROL BMPs (SILT FENCE OR EQUIVALENT).
4. CONTRACTOR SHALL OBTAIN ANY PERMITS NECESSARY FOR THE WORK.
5. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITIES COMPLY WITH THE NPDES PERMIT AND SHALL SUBMIT A CONSTRUCTION PHASING PLAN, INCLUDING BUT NOT LIMITED TO DETERMINING OPERATIONS.
6. EROSION CONTROL DEVICE LOCATIONS AND TIMING SUBJECT TO CONSTRUCTION PHASING.
7. INLET PROTECTION SHALL BE INSTALLED ACCORDING TO THE NPDES PERMIT THROUGHOUT CONSTRUCTION.
8. SITE SHALL BE SEEDED AND MULCHED ACCORDING TO THE CONSTRUCTION STAGING NOTES.
9. INSTALLATION SCHEDULE SHALL COMPLY WITH THE NPDES PERMIT SECTION 8.1 - EROSION PREVENTION PRACTICES, 9.1 SEDIMENT CONTROL PRACTICES, AND SECTION 3 (EROSION AND SEDIMENT CONTROL) OF THE CITY'S DESIGN CRITERIA.
10. SLOPES GREATER THAN OR EQUAL TO 3:1 SHALL HAVE APPROVED EROSION CONTROL. BEST MANAGEMENT PRACTICES INSTALLED IMMEDIATELY AFTER FINISHED GRADE.
11. INFILTRATION BASINS AND/OR SWALES SHALL BE PROTECTED AFTER CONSTRUCTION. KEEP HEAVY EQUIPMENT OFF THE INF. BASINS AFTER CONSTRUCTION.
12. PERIMETER/DOWNGRADE SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHOULD BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.
13. PER INFILTRATION DETAIL, ALTERNATE ROCK MULCH MAY BE USED IN LIEU OF MNDOT 33-261 SEEDING & BLANKET.

- WITH CAT. 20 VINYL NETTING BLANKET
- DENOTES PROPOSED TREE LOCATION (REFER TO TREE PLAN FOR MORE INFO)

CONSTRUCTION STAGING:

- Stage 1:
- Place vegetation as necessary to expedite perimeter controls.
 - Place perimeter sediment controls. Provide redundant (double) perimeter sediment controls (per NPDES 9.17) with at least 5' apart.
 - Install and maintain a vehicle tracking BMP (NPDES Sec 9.1).
- Stage 2:
- Construct roads and site grading and follow the NPDES permit requirements.
 - NPDES Section 8.4: Must stabilize all exposed soil areas, including stockpiles. Stabilization must be initiated immediately upon completion of construction activity and must be maintained throughout the duration of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed no later than 14 calendar days after the construction activity has ceased. Stabilization is not required on the construction activity has ceased. Stabilization is not required on the construction activity has ceased. Stabilization is not required on the construction activity has ceased.
 - Maintain perimeter controls.
 - Minimize erosion of grading forms, seed upland areas with the appropriate MNDOT Blanket. Stabilize non-concentrated flow areas with Type 1 mulch at 2 tons/acre and disc anchor.
 - Stabilize concentrated flow areas with erosion control blankets or mats according to MNDOT Spec. 3655 & 2.575.
- Stage 3:
- Place infiltration areas planting mixture immediately after grading.
 - Seed infiltration areas with MNDOT Seed Mixture 35-261 @ 35 lbs/acre & MNDOT Blanket.
 - Protect infiltration areas throughout the establishment period.
- Stage 4:
- Maintain BMPs throughout construction.
 - Obtain final stabilization in areas where possible.
 - Final stabilization is directed per the NPDES permit and City Standards.