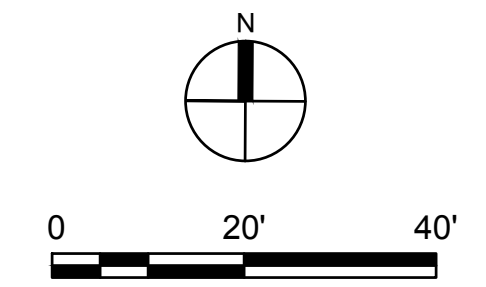


KEYNOTES

- ① REMOVE EXISTING B612 CONCRETE CURB AND GUTTER.
- ② REMOVE EXISTING LIGHT POLE.
- ③ REMOVE EXISTING STORM INLET.
- ④ REMOVE EXISTING 18" RCP STORM SEWER.
- ⑤ REMOVE EXISTING 24" RCP STORM SEWER.
- ⑥ REMOVE EXISTING ROOF DRAIN. SEE SHEET C4 FOR MORE INFORMATION.
- ⑦ REMOVE EXISTING TRASH ENCLOSURE.
- ⑧ INSTALL TREE PROTECT @ DRIPLINE OF EXISTING TREE.
- ⑨ EXISTING TRANSFORMER TO REMIAN.
- ⑩ EXISTING GAS METER TO REMAIN.
- ⑪ EXISTING HYDRANT TO REMAIN.
- ⑫ REMOVE EXISTING SIGN.
- ⑬ REMOVE EXISTING FIBER OPTIC LINE. CONTRACTOR TO COORDINATE RE-ROUTE LOCATION WITH PRIVATE UTILITY OWNER.
- ⑭ REMOVE EXISTING SANITARY SERVICE TO MAIN. CAP AND SEAL PER CITY STANDARDS.
- ⑮ REMOVE EXISTING CONC. ISLANDS. SEE ARCHITECTURAL FOR MORE INFORMATION OF REMODEL UNDER CANOPY
- ⑯ REMOVE EXISTING FLAG POLE.
- ⑰ REMOVE AND REPLACE EXISTING COVER. SEE SHEET C4 FOR MORE INFORMATION.



LEGEND

- PROPERTY LIMITS
- - - CONSTRUCTION LIMITS
- - - EXISTING D+U EASEMENT
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- GAS — EXISTING GAS MAIN
- C — EXISTING COMMUNICATIONS LINE
- UE — EXISTING UNDERGROUND ELECTRIC
- x - EXISTING FENCE
- ⊕ EXISTING HYDRANT AND GV
- ⊕ EXISTING STORM SEWER INLET
- HHC □ HHE EXISTING HANDHOLE
- EXISTING SIGN
- ☀ EXISTING LIGHT POLE
- - - FULL DEPTH SAW CUT
- ~ ~ ~ REMOVE EXISTING UTILITY
- - - REMOVE EXISTING CONCRETE C&G
- ▨ REMOVED BITUMINOUS PAVEMENT
- ▩ REMOVED CONCRETE PAVEMENT
- ✕ REMOVE EXISTING TREE



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PROJECT

MM CAPITAL SHOREWOOD, LLC

ADDITION/REMODELING

**19765 MN - 7
SHOREWOOD, MINNESOTA**

DEMOLITION NOTES

1. UTILITIES SHOWN HERE ARE FOR INFORMATIONAL USE ONLY AND ARE NOT GUARANTEED IN THEIR ACCURACY. VERIFY WORK. NOTIFY ENGINEER OF ANY/ALL DISCREPANCIES WITHIN 24 HOURS OF DISCOVERY.
2. CONTRACTOR SHALL HIRE PRIVATE UTILITY LOCATOR AS NECESSARY TO VERIFY UNDERGROUND UTILITIES. UTILITIES SHOWN ON PLANS MAY VARY FROM EXISTING CONDITIONS, AND CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO UTILITY LINES SHOWN, NOT SHOWN, OR SHOWN INCORRECTLY.
3. ALL UNDERGROUND UTILITIES MUST BE LOCATED PRIOR TO EXCAVATION OR GRADING ON SITE. CALL GOPHER SATE ONE CALL AT 1-800-252-1166 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO SCHEDULE UTILITY LOCATIONS FOR THIS SITE. CONTRACTOR TO REPAIR ANY DAMAGED UNDERGROUND UTILITIES DURING CONSTRUCTION AT NO COST TO OWNER.
4. CONTRACTOR SHALL PROVIDE DIGITAL RECORD OF ALL EXISTING CONDITIONS TO REMAIN IN PLACE THAT MAYBE DAMAGED CAUSED BY REGULAR CONSTRUCTION OPERATIONS.
5. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS, SIZE, AND TYPE OF ALL SANITARY, STORM, AND WATERMAIN CONNECTION LOCATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER & OWNER OF DISCREPANCIES WITHIN 24 HOURS OF DISCOVERY.
6. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR DEMOLITION, REMOVAL, AND DISPOSAL.
7. ALL MATERIAL DESIGNATED FOR REMOVAL TO BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. CONTRACTOR SHALL HAUL MATERIAL OFF-SITE AND DISPOSE IN A RESPONSIBLE MANNER.
8. CONTRACTOR TO COORDINATE WITH SMALL UTILITY OWNER FOR REMOVAL/REPLACEMENT WORK.

ISSUED SET	DATE	NO.	DESCRIPTION
REVISIONS			
DATE	1/8/25	1	FINAL WATERSHED

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

NOT FOR CONSTRUCTION

BRIAN J. FIELD, P.E.

57224 01/08/2025
REG. NO. DATE

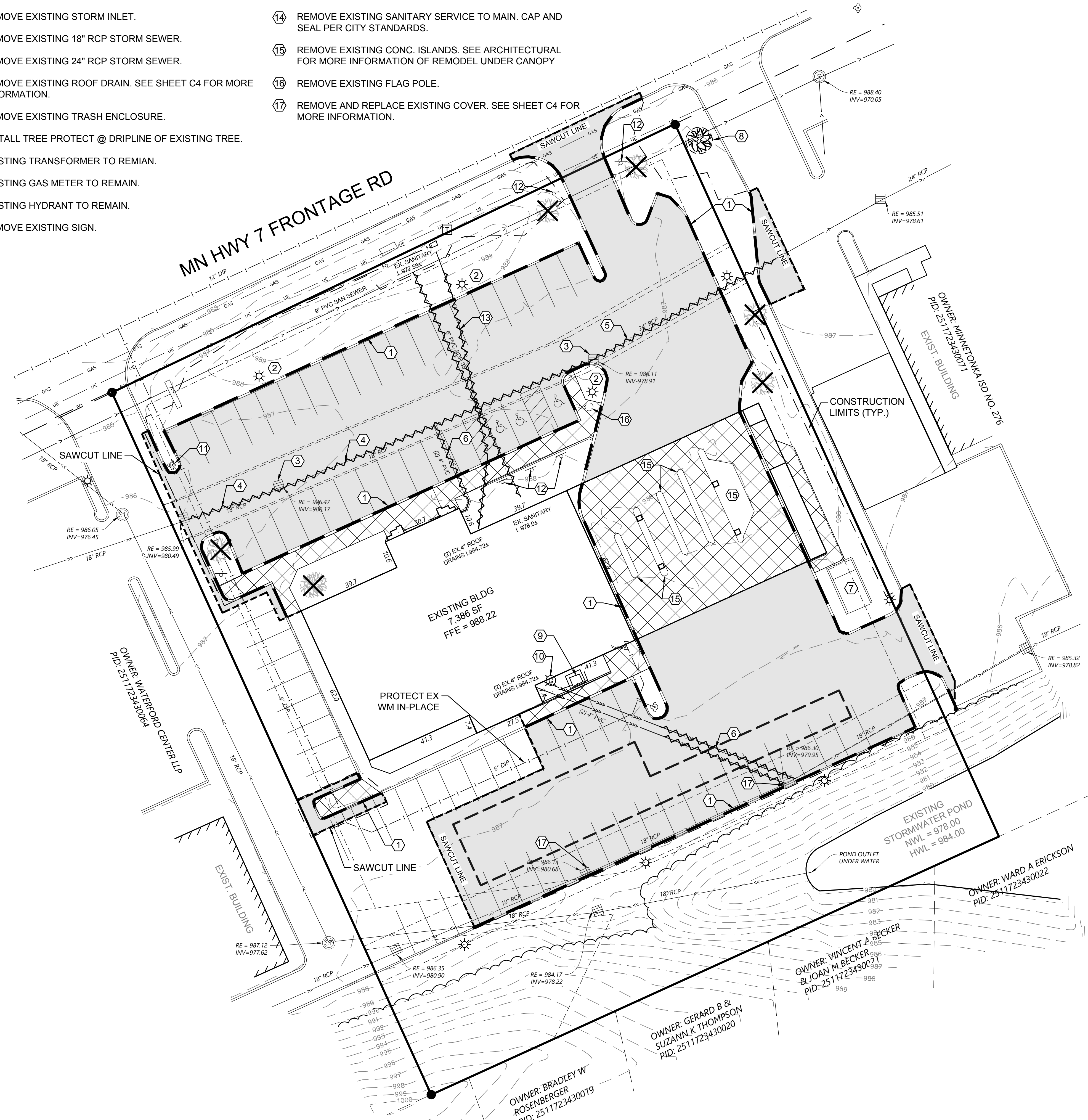


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Anderson Engineering of Minnesota, LLC

DEMOLITION PLAN

DRAWN BY: DV CHECKED BY: BF

C1



CALL 48 HOURS BEFORE DIGGING:
GOPHER STATE ONE CALL
TWIN CITY AREA (651)454-0002
MINNESOTA TOLL FREE 1-800-252-1166



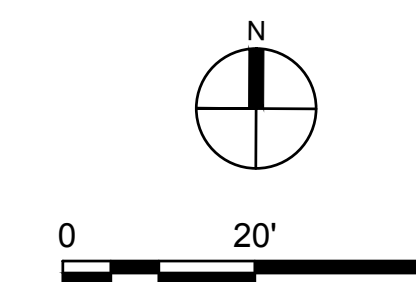
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GRADING & DRAINAGE PLAN

DRAWN BY: DV CHECKED BY: BF

C2



LEGEND

	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	DRAINAGE ARROW
	PROPOSED CONCRETE C&G
	PROPOSED D&U EASEMENT
	PROPOSED STORM INLETS

SPOT ELEVATION KEY

±	EXISTING GRADE
G	GUTTER FLOW LINE
TC	TOP OF CURB
HP	HIGH POINT ELEVATION
R	RIM ELEVATION
I	INVERT ELEVATION
EOF	EMERGENCY OVERFLOW ELEVATION
FFE	FINISHED FLOOR ELEVATION

GRADING NOTES

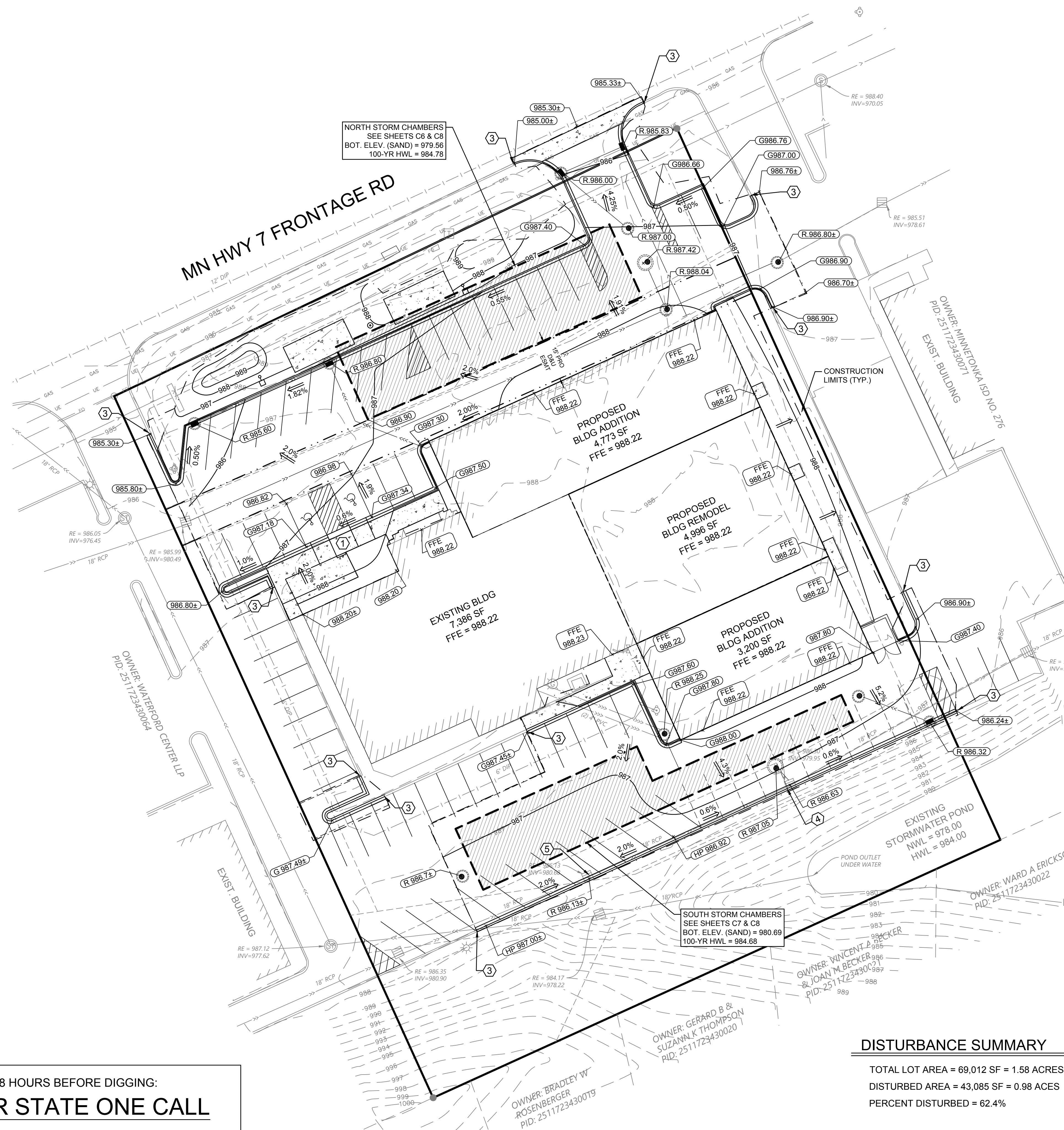
- THE TOTAL DISTURBED AREA IS EQUAL TO 0.98 ACRES. AN MPCA PERMIT IS NOT REQUIRED.
- PROPOSED SPOT ELEVATIONS ARE TO TOP OF FINISHED SURFACE UNLESS OTHERWISE NOTED IN LEGEND.
- TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES. LOCATIONS OF UTILITIES SHOWN BASED ON SURVEY AND AS-BUILT INFORMATION AND MAY NOT REPRESENT ACTUAL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR UTILIZING UTILITY LOCATES PRIOR TO STARTING ANY WORK.
- CONTRACTOR IS RESPONSIBLE TO QUANTIFY SOIL IMPORT OR EXPORT AND PERFORM THEIR OWN QUANTITY TAKEOFFS FROM THE DRAWINGS. ONSITE EXCAVATION OF SOIL MAY BE NECESSARY TO ACHIEVE FINAL GRADES. CONTRACTOR SHALL COORDINATE ADDITIONAL ONSITE BORROW AREAS WITH OWNER AND ENGINEER. SUITABLE OFFSITE IMPORT MATERIAL MAY BE NECESSARY TO ACHIEVE FINAL GRADES. CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER TO VERIFY IMPORT.
- CONTRACTOR SHALL EXCAVATE AND DISPOSE OF UNSUITABLE OR CONTAMINATED SOILS IF DISCOVERED ONSITE IN ACCORDANCE WITH APPLICABLE REGULATION AND AS DIRECTED BY GEOTECHNICAL ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR MEETING GRADING/COMPACTION REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR THIS PROJECT.
- GRADING ELEVATIONS TO CONFORM TO MNDOT SPEC 2106.3.I
- SOIL COMPACTION TESTING SHALL FOLLOW THE FREQUENCY OUTLINED IN THE GEOTECHNICAL REPORT.
- CONTRACTOR SHALL COORDINATE SOIL TESTING AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL CONSTRUCT ACCESSIBLE ROUTES IN ACCORDANCE WITH CURRENT ADA STATE AND NATIONAL STANDARDS. NOTIFY ENGINEER WITHIN 24 HOURS IF ADA STANDARDS ARE UNABLE TO BE MET.
- EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED OFF OF EXISTING SITE SURVEY DATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION. NOTIFY ENGINEER WITHIN 24 HOURS OF ALL DISCREPANCIES.
- SEE SHEET C3 FOR EROSION CONTROL PLAN.

KEY NOTES

- PEDESTRIAN CURB RAMP MEETING 2020 MINNESOTA ACCESSIBILITY STANDARDS.
- RAISE EXISTING CATCH BASIN RIM TO FINISHED GRADE.
- MATCH EXISTING CURB GRADE.
- RAISE EXISTING RIM TO FINISHED GRADE. RECONSTRUCT MANHOLE / TOP BARREL AS NEEDED. SEE SHEET C4 FOR NEW CASTING.
- REMOVE AND REPLACE CASTER PER SHEET C4. ADJUST RIM ELEVATION AS NEEDED TO MATCH FINISHED GRADE.

DISTURBANCE SUMMARY

TOTAL LOT AREA = 69,012 SF = 1.58 ACRES
DISTURBED AREA = 43,085 SF = 0.98 ACES
PERCENT DISTURBED = 62.4%



NORTH STORM CHAMBERS
SEE SHEETS C6 & C8
BOT. ELEV. (SAND) = 979.56
100-YR HWL = 984.78

SOUTH STORM CHAMBERS
SEE SHEETS C7 & C8
BOT. ELEV. (SAND) = 980.69
100-YR HWL = 984.68

CALL 48 HOURS BEFORE DIGGING:
GOPHER STATE ONE CALL

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EROSION CONTROL NOTES

- GRADING CONTRACTORS SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- ALL EROSION CONTROL MEASURES CALLED FOR ON THESE PLANS AND SPECIFICATIONS, WHICH MAY INCLUDE SILT FENCE, SEDIMENTATION BASINS OR TEMPORARY SEDIMENT TRAPS, SHALL BE CONSTRUCTED AND SERVICEABLE IN THE FOLLOWING ORDER:
 - ROCK CONSTRUCTION ENTRANCES A MINIMUM OF 50 FEET
 - SILT FENCE
 - TEMPORARY CULVERTS
 - TEMPORARY SEDIMENTATION BASINS AND OUTFALL FACILITIES
 - STORMWATER POND CONSTRUCTION
 - COMMON EXCAVATION AND EMBANKMENT (GRADING)
 - SEED AND MULCH OR SOD
 - BIO-ROLL BARRIERS IN FINISHED GRADED AREAS
 - INLET AND OUTFALL FACILITIES SUBSEQUENT TO STORM SEWER WORK
- GRADING CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY AND NPDES PHASE I PERMITTING REQUIREMENTS AS WELL AS EROSION CONTROL MEASURES AS MAY BE SHOWN ON THESE PLANS OR SPECIFICATIONS. GRADING CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED TO PROTECT ADJACENT PROPERTY.
- ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING GRADING OPERATIONS. ANY TEMPORARY FACILITIES WHICH ARE TO BE REMOVED AS CALLED FOR ON THESE PLANS AND SPECIFICATIONS SHALL BE REMOVED BY THE GRADING CONTRACTOR WHEN DIRECTED BY THE ENGINEER. THE GRADING CONTRACTOR SHALL RESTORE THE SUBSEQUENTLY DISTURBED AREA IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- THE GRADING CONTRACTOR SHALL SCHEDULE THE SOILS ENGINEER SO THAT CERTIFICATION OF ALL CONTROLLED FILLS WILL BE FURNISHED TO THE OWNER DURING AND UPON COMPLETION OF THE PROJECT.
- ALL DISTURBED AREAS, EXCEPT AREAS TO BE PAVED AND/OR SPECIFICALLY DESIGNED BY A LANDSCAPE PLAN, SHALL BE COVERED WITH A MINIMUM 8" OF TOP SOIL OR AS INDICATED IN SPECIFICATIONS OR LAKE DISTURBED PLANS. ALL DISTURBED AREAS SHALL BE SEED & MULCHED AT THE PRESCRIBED RATES WITHIN 72 HOURS OF FINAL GRADING UNLESS OTHERWISE NOTED.

SEED MIX	MNDOT NO. 25-141	59# / ACRE
MULCH:	TYPE 1	2 TONS / ACRE (DISK ANCHORED)
FERTILIZER:	TYPE 3	22-5-10 350# / ACRE

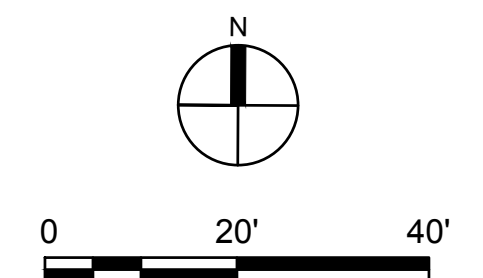
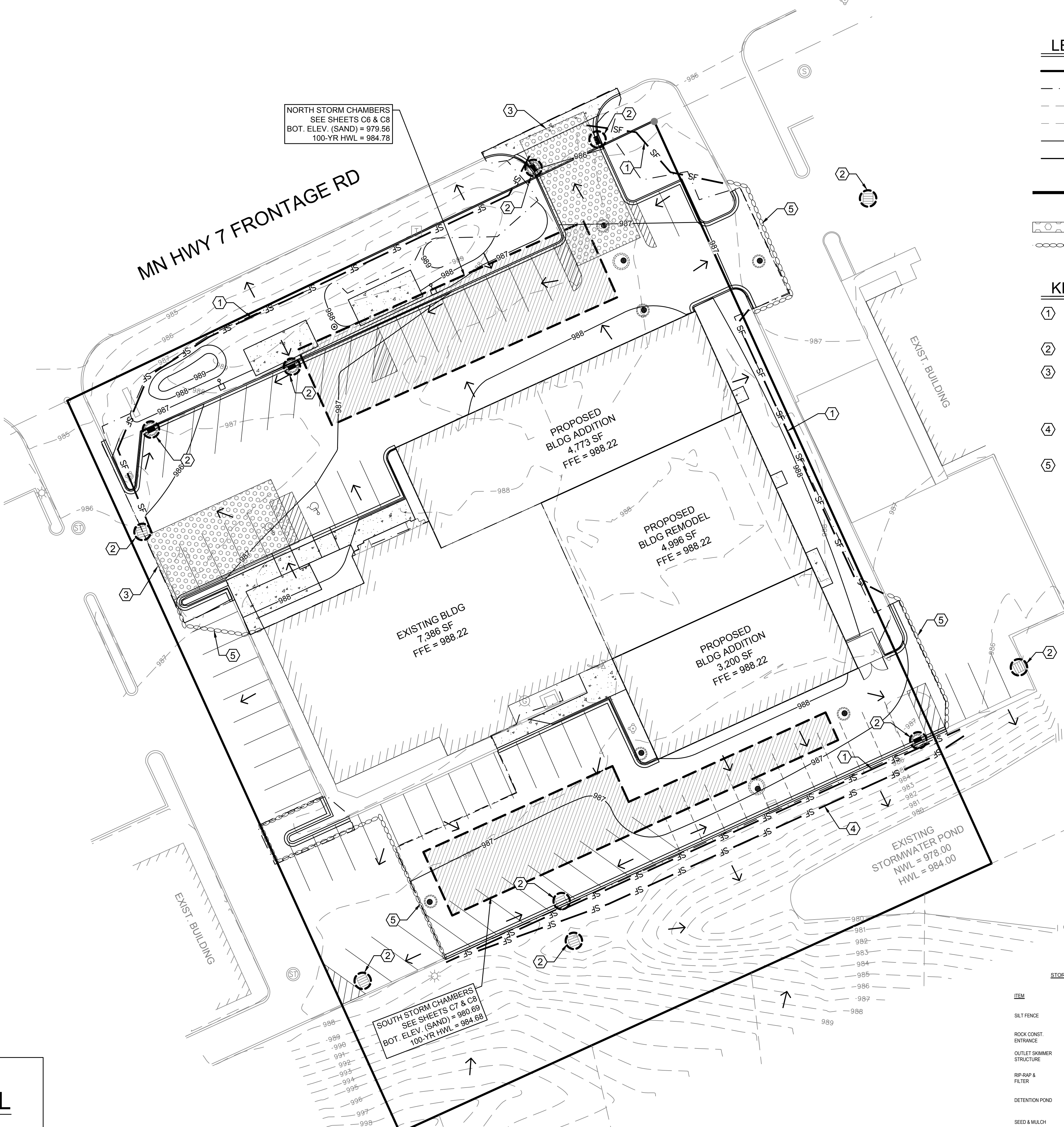
ALL EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 LINEAL FEET OF ANY SURFACE WATER MUST HAVE TEMPORARY EROSION PROTECTION OR PERMITTING COVER FOR THE EXPOSED SOIL AREAS YEAR ROUND, ACCORDING TO THE FOLLOWING TABLE OF SLOPES AND TIME FRAMES:

TYPE OF SLOPE	TIME (Maximum time an area can remain open when the area is not actively being worked)
STEEPER THAN 3:1	7 DAYS
10:1 TO 3:1	4 DAYS
FLATTER THAN 10:1	7 DAYS
- THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS SHOWN ON THE PLAN WERE TAKEN FROM A PLAN FURNISHED BY OWNER.
- CONTRACTORS GRADING AND EROSION CONTROL OPERATIONS SHALL TAKE PLACE WITHIN THE CONSTRUCTION LIMITS.
- IT IS REQUIRED THAT SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES BE CLEANED DAILY FROM PAVED ROADWAY SURFACES THROUGHOUT THE DURATION OF CONSTRUCTION.
- PROVIDE TEMPORARY SEDIMENTATION BASINS AS DIRECTED BY THE ENGINEER.
- ALL REQUIREMENTS OF THE LOCAL WATERSHED DISTRICT SHALL BE SATISFIED PER THE APPROVED PERMIT.
- ALL EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN AND IMPLEMENTED IN THE FIELD AS DIRECTED BY THE ENGINEER SHALL CONFORM TO THE MPCA'S "PROTECTING WATER QUALITY IN URBAN AREAS: BEST MANAGEMENT PRACTICES FOR MINNESOTA".
- DEWATERING AND / OR BASIN DRAINING DISCHARGE SHALL BE DIRECTED TO SEDIMENTATION BASINS WHEREVER POSSIBLE. ALL DISCHARGE POINTS SHALL BE ADEQUATELY PROTECTED FROM EROSION & SCOUR THROUGH USE OF APPROVED ENERGY DISSIPATION DEVICES.
- ALL SOLID WASTE / CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH MPCA REQUIREMENTS. HAZARDOUS MATERIALS SHALL BE STORED / DISPOSED OF IN COMPLIANCE WITH MPCA REGULATIONS.
- CONTRACTOR SHALL USE RAPID STABILIZATION METHODS PER MNDOT 2575 AS NEEDED DURING THE COURSE OF THE WORK TO MAINTAIN CONFORMANCE WITH THE CITY AND NPDES II PERMIT REQUIREMENTS. THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREA, TO PREVENT OFF SITE SEDIMENTATION AND / OR TO COMPLY WITH PERMIT REQUIREMENTS. THE WORK MAY BE PERFORMED AT ANY TIME DURING THE CONTRACT AND DURING NORMAL WORKING HOURS. THIS WORK WILL BE CONDUCTED ON SMALL AREAS THAT MAY OR MAY NOT BE ACCESSIBLE WITH NORMAL EQUIPMENT. THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE MNDOT STANDARDS SPECIFICATIONS, THE DETAILS SHOWN IN THE PLANS, AND THE FOLLOWING:

METHOD	RAPID STABILIZATION
1	TYPE 1 MULCH WITH DISK ANCHORING
2	TYPE 3 MULCH WITH TYPE HYDRAULIC MULCH
3	TYPE HYDRAULIC MULCH WITH SEED MIXTURE 22-11
4	CATEGORY 3 EROSION CONTROL BLANKET WITH SEED MIXTURE
5	RIPRAP CLASS II WITH GEOTEXTILE TYPE III

THESE EFFORTS WILL BE INCIDENTAL TO THE EROSION CONTROL BID ITEM.
- CHANGE OF COVERAGE: FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS WHERE THE OWNER OR OPERATOR CHANGES, (E.G., AN ORIGINAL DEVELOPER SELLS PORTIONS OF THE PROPERTY TO VARIOUS BUILDERS) THE NEW OWNER OR OPERATOR MUST SUBMIT A SUBDIVISION REGISTRATION WITHIN 7 DAYS OF ASSUMING TRANSFERS, SALE OR CLOSING ON THE PROPERTY.
- INDIVIDUAL SITE BUILDERS SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY EROSION CONTROL MEASURES AS MAY BE REQUIRED. REQUIRED ECOM'S SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING:
 - STAKED FIBER LOG ROLLS AT BACK OF ALL CURB EXCEPT AT CONSTRUCTION / DRIVEWAY ENTRANCE.
 - SILT FENCE ON ALL DOWN GRADIENT SLOPES FROM CONSTRUCTION AREA. SILT FENCE SHALL HAVE THE BOTTOM DUG IN WITH SOIL FIRMLY COMPACTED.
 - ROCK CONSTRUCTION ENTRANCE HAVING 1" TO 2" CLEAR ROCK OVER GEOTEXTILE FABRIC.
 - STREET CLEANING AS MAY BE REQUIRED SHOULD VEHICLE TRACKING OCCUR.

INDIVIDUAL SITE BUILDERS ARE REQUIRED TO MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH TIME AS INDIVIDUAL YARDS/VEGETATION ARE ESTABLISHED.
- CONTRACTOR SHALL PROVIDE A TEMPORARY LINED SEDIMENTATION BASIN ON SITE FOR CONSTRUCTION WASH OUT USE. TEMPORARY BASIN SHALL BE LOCATED AS TO PROVIDE EASY ACCESS FOR CONSTRUCTION VEHICLES AND CONCRETE TRUCKS AS NECESSARY.
- INLET SEDIMENTATION CONTROL IS TO BE PROVIDED TO ALL STORM SEWER CATCH BASIN THROUGHOUT CONSTRUCTION. MEASURES APPLIED SHALL COMPLY WITH BEST MANAGEMENT PRACTICES FOR MINNESOTA AND APPLICATION OF NPDES PHASE II AS APPROPRIATE FOR PHASE OF CONSTRUCTION.
- CONTRACTOR SHALL PREVENT SOIL LOSS DURING CONSTRUCTION DUE TO WIND EROSION THROUGHOUT CONSTRUCTION. DUST SHALL BE SUPPRESSED THROUGH THE APPLICATIONS OF WATER, AS DEEMED NECESSARY BY THE CONTRACTOR, OR THROUGH EQUIVALENT BMP'S AS APPROVED BY THE ENGINEER.
- IF LEED ACCREDITATION IS APPLICABLE, CONTRACTOR SHALL DOCUMENT THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN THROUGH DATE-STAMPED PHOTOS AND INSPECTION LOGS / REPORTS. REPORTS SHALL INCLUDE AT A MINIMUM DESCRIPTION OF ALL EMPLOYED BMP'S (INCLUDING BOTH MEASURES TO PREVENT SOIL LOSS DUE TO RUNOFF AND SOIL LOSS DUE TO WIND EROSION), BMP'S DEEMED UNNECESSARY DUE TO SITE CONDITIONS, CORRECTIVE ACTIONS TAKEN IN RESPONSE TO PROBLEMS, AND ANY ADDITIONAL INFORMATION RELEVANT TO THE CONDITION OF THE EROSION AND SEDIMENT CONTROL PLAN AS IT WAS ESTABLISHED AT THE TIME OF CONSTRUCTION.



LEGEND

	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	DRAINAGE ARROW
	SILT FENCE
	INLET PROTECTION
	CONSTRUCTION ENTRANCE
	BIO ROLL

- KEY NOTES**
- INSTALL AND MAINTAIN SILTFENCE PERIMETER SEDIMENT PROTECTION IN TURF AREAS.
 - INSTALL AND MAINTAIN INLET SEDIMENT PROTECTION.
 - INSTALL TEMP ROCK ENTRANCE OR MNDOD APPROVED PRODUCT TRACK PAD AT CONSTRUCTION INGRESS & EGRESS LOCATION PRIOR TO EXCAVATION. MAINTAIN THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
 - INSTALL REDUNDANT SILT FENCE ALONG POND SIDE OF SLOPE. 5' BUFFER MIN.
 - INSTALL BIO-ROLL IN PAVED AREAS PER MNDOT SPEC SECTION 3885.



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Minneapolis Bismarck

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Tel: 952.278.8880

PROJECT
MM CAPITAL SHOREWOOD, LLC

ADDITION/REMODELING
19765 MN - 7 SHOREWOOD, MINNESOTA

ISSUED SET	JAN. 08, 2025
REVISIONS	
DATE	NO.
1/8/25	1 FINAL WATERSHED

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

NOT FOR CONSTRUCTION
BRIAN J. FIELD, P.E.

# 57224	01/08/2025
REG. NO.	DATE



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Anderson Engineering of Minnesota, LLC

EROSION AND SEDIMENT PLAN

DRAWN BY: DV CHECKED BY: BF

C3

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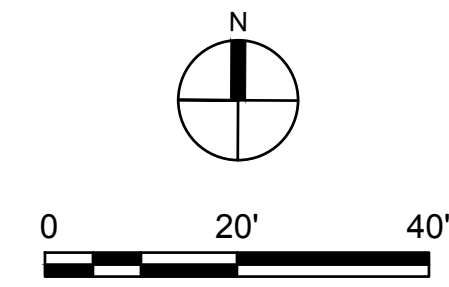
STORMWATER POLLUTION PREVENTION PLAN SCHEDULE OF INSTALLATION & MAINTENANCE

ITEM	INSTALLATION	INSPECTION & MAINTENANCE	REMOVAL
SILT FENCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT & MAINT. AFTER EACH RUN-OFF EVENT. REMOVE SEDIMENTS AS REQUIRED.	AFTER TRIBUTARY DRAINAGE AREAS RESTORED.
ROCK CONST. ENTRANCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT REGULARLY. MAINTAIN AS NEEDED.	PRIOR TO PAVING.
OUTLET SKIMMER STRUCTURE	AFTER POND GRADING IS COMPLETED.	INSPECT REGULARLY. MAINTAIN AS NEEDED.	PERMANENT.
RIP-RAP & FILTER	UPON COMPLETION OF POND GRADING. CONC. SHALE CONST. AND OUTFLET INSTALLATION.	INSPECT & MAINTAIN AT LEAST ANNUALLY AND AFTER HEAVY RAINFALL EVENT.	PERMANENT.
DETENTION POND	DURING EARTHWORK OPERATIONS.	AFTER HEAVY RAINFALL EVENTS REMOVE SEDIMENTS AS NEEDED.	PERMANENT.
SEED & MULCH	AFTER POND GRADING IS COMPLETED.	INSPECT & MAINTAIN AFTER HEAVY RAINS. REPLACE WASH-OUT AREAS IMMEDIATELY.	NO REMOVAL NECESSARY.
INLET PROTECTION	UPON INLET CONSTRUCTING	WHEN 10 CAPACITY OF BMP IS REACHED	AFTER TRIBUTARY AREAS ARE FULLY RESTORED

KEY NOTES

- ① PROPOSED CONCRETE VALLEY GUTTER.
- ② CONCRETE SIDEWALK TIP AWAY FROM BUILDING @ 2.00% UNLESS OTHERWISE NOTED ON GRADING SHEET C2.
- ③ PROPOSED MNDOT B612 CONCRETE CURB.
- ④ CONSTRUCT MANHOLE OVER EXISTING 24" STORM SEWER
- ⑤ TIE IN EXISTING 4" ROOF DRAIN INTO NEW MANHOLE.
- ⑥ CONNECT NEW RCP STORM TO EXISTING MANHOLE @ ELEVATION 980.49.
- ⑦ PROPOSED 15.0' PRIVATE DRAINAGE & UTILITY EASEMENT.
- ⑧ PROPOSED BITUMINOUS PAVEMENT SECTION.
- ⑨ PROPOSED STORM SEWER CLEANOUT.
- ⑩ EXISTING HYDRANT TO REMAIN.
- ⑪ REMOVE AND REPLACE EXISTING CATCH BASIN CASTING PER STRUCTURE SCHEDULE BELOW. ADJUST TO FINISHED GRADE AS NEEDED.
- ⑫ REMOVE AND REPLACE TOP BARREL SECTION OF EXISTING MANHOLE WITH ECCENTRIC CONE. ROTATE OPENING TO BE OUTSIDE OF CONCRETE CURB AND GUTTER. INSTALL CASTING PER STRUCTURE SCHEDULE BELOW.

STRUCTURE SCHEDULE		
STRUCTURE NO.	SIZE	CASTING & NOTES (NEEHAN)
STM-1	48" ROUND	R-1642-SOLID "STORM"
STM-2	48" ROUND	R-1642-SOLID "STORM"
STM-3	48" ROUND	R-1642-SOLID "STORM"
OCS-4	60" ROUND	R-1642-SOLID "STORM"
STM-5	48" ROUND	R-1642-SOLID "STORM"
CBMH-6	48" ROUND	R-3067-V
CB-7	2' X 3' RECT	R-3067-V
CBMH-8	48" ROUND	R-3067-V
CBMH-9	48" ROUND	R-3067-V
CBMH-10	48" ROUND	R-3067-V
STM-11	48" ROUND	R-1642-SOLID "STORM"
OCS-12	60" ROUND	R-1642-SOLID "STORM"
STM-13	48" ROUND	R-1642-SOLID "STORM"
STM-14	48" ROUND	R-1642-SOLID "STORM"
EX STM-15	48" ROUND	R-1642-SOLID "STORM"
EX CBMH-16	48" ROUND	R-3067-V



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PROJECT

MM CAPITAL SHOREWOOD, LLC

LEGEND

- — — — — PROPERTY LIMITS
- - - - - CONSTRUCTION LIMITS
- - - - - PROPOSED D&U EASEMENT
- — — — — EXISTING WATERMAIN
- — — — — EXISTING SANITARY SEWER
- — — — — EXISTING STORM SEWER
- — — — — EXISTING UNDER DRAIN
- — — — — PROPOSED STORM SEWER
- — — — — PROPOSED UNDER DRAIN/ ROOF DRAIN
- — — — — PROPOSED SANITARY SEWER
- — — — — PROPOSED STORM INLETS
- — — — — PROPOSED BITUMINOUS PVMT
- — — — — PROPOSED CONCRETE PVMT

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND PER THE GEOTECHNICAL REPORT UNLESS DIRECTED OTHERWISE.
2. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF MNDOT SPECIFICATIONS, UNLESS DIRECTED OTHERWISE.
3. THE CONTRACTOR IS REQUIRED TO ADHERE TO THE SPECIFICATIONS AND REGULATIONS SET FORTH BY THE CITY/UTILITY PROVIDER, CEAM, AND MINNESOTA PLUMBING CODE (MINNESOTA RULES CHAPTER 4714) CONCERNING THE MATERIALS, INSTALLATION, AND TESTING OF WATER AND SANITARY UTILITIES. VERIFY RECEIPT OF ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
4. EXISTING TOPOGRAPHIC AND UTILITY INFORMATION PREPARED BY WESTWOOD. BE ADVISED THAT THE LOCATION AND TYPE OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE INFORMATION IS NOT WARRANTED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR, IN COOPERATION WITH THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY, IS RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND DEPTH OF ALL UNDERGROUND UTILITIES.
5. ALL HANDICAPPED STALLS AND ACCESS RAMPS SHALL COMPLY WITH CURRENT ADA STANDARDS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF BUILDING ENTRANCES.
6. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE WATER TIGHT. APPROVED RESILIENT RUBBER JOINTS MUST BE USED MEETING ASTM F2510 TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES AND CATCH BASINS. DO NOT GROUT OVER FLEXIBLE CONNECTIONS TO MANHOLES.
7. HDPE STORM SEWERS MUST MEET ASTM F714. WATER TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS, INCLUDING STRUCTURES. THE INSTALLATION MUST COMPLY WITH ASTM D2321.
8. STORM SEWER TO BE ADS N-12 DUAL WALL PIPE OR APPROVED EQUAL.
9. RCP STORM PIPE TO BE CLASS III UNLESS OTHERWISE SPECIFIED.
10. WATER SERVICE TO BE PROVIDED TO REMODELED/ ADDITION AREAS INTERNALLY. PROTECT EXISTING SERVICES IN PLACE.

ADDITION/REMODELING

19765 MN - 7 SHOREWOOD, MINNESOTA

ISSUED SET JAN. 08, 2025

REVISIONS

DATE NO. 1/8/25 1 FINAL WATERSHED

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BRIAN J. FIELD, P.E.

57224 REG. NO. 01/08/2025 DATE



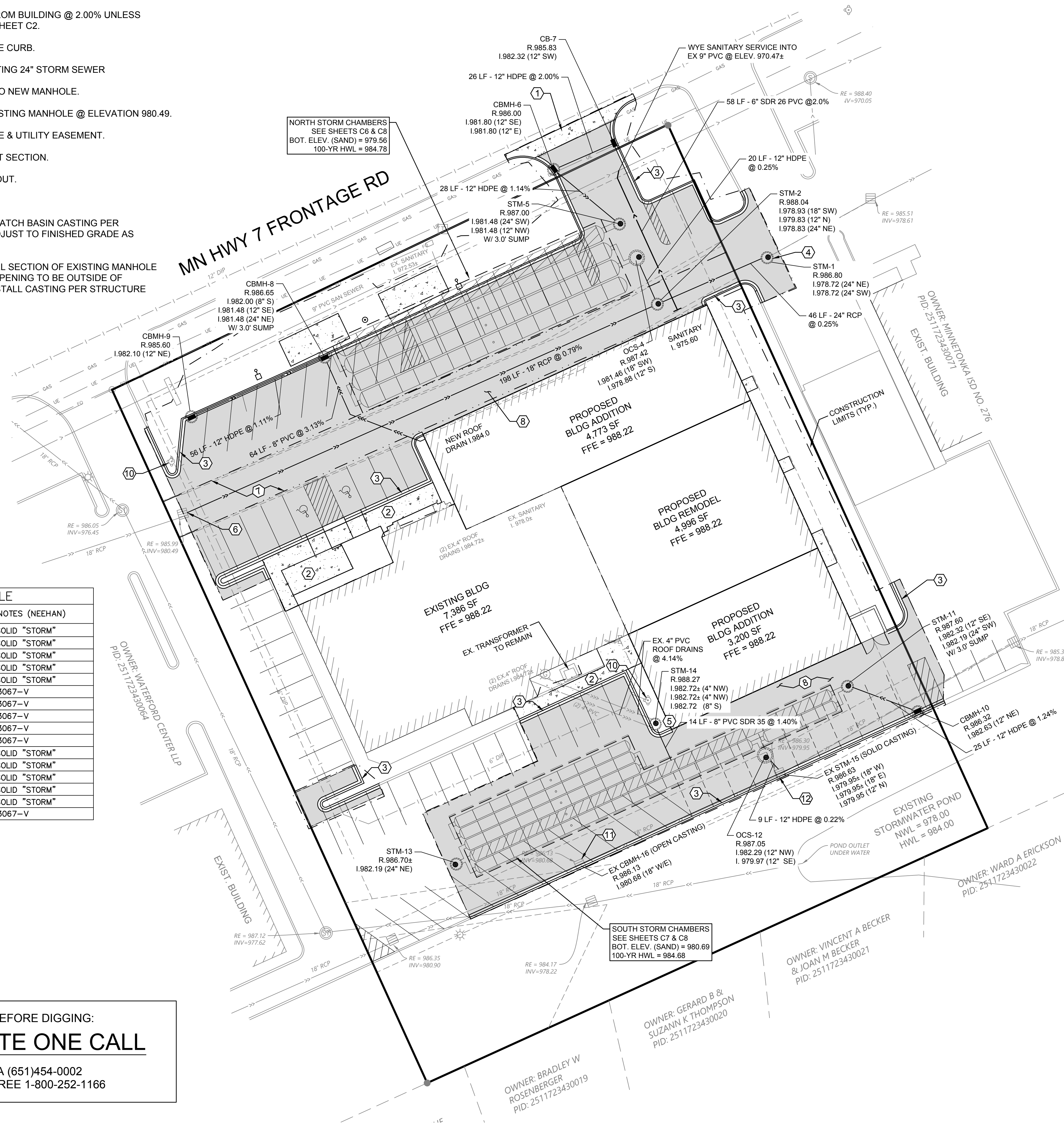
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UTILITY & PAVING PLAN

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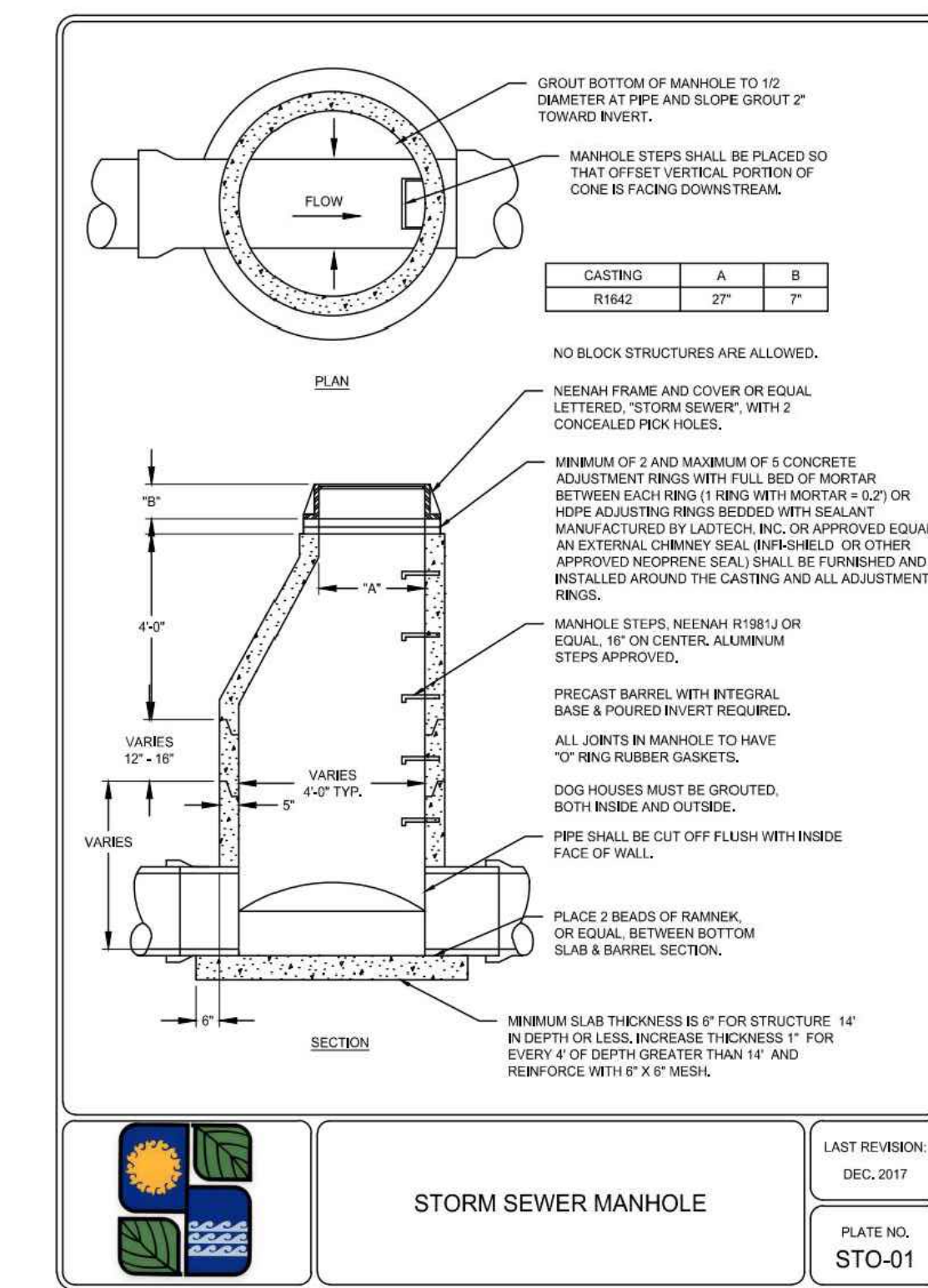
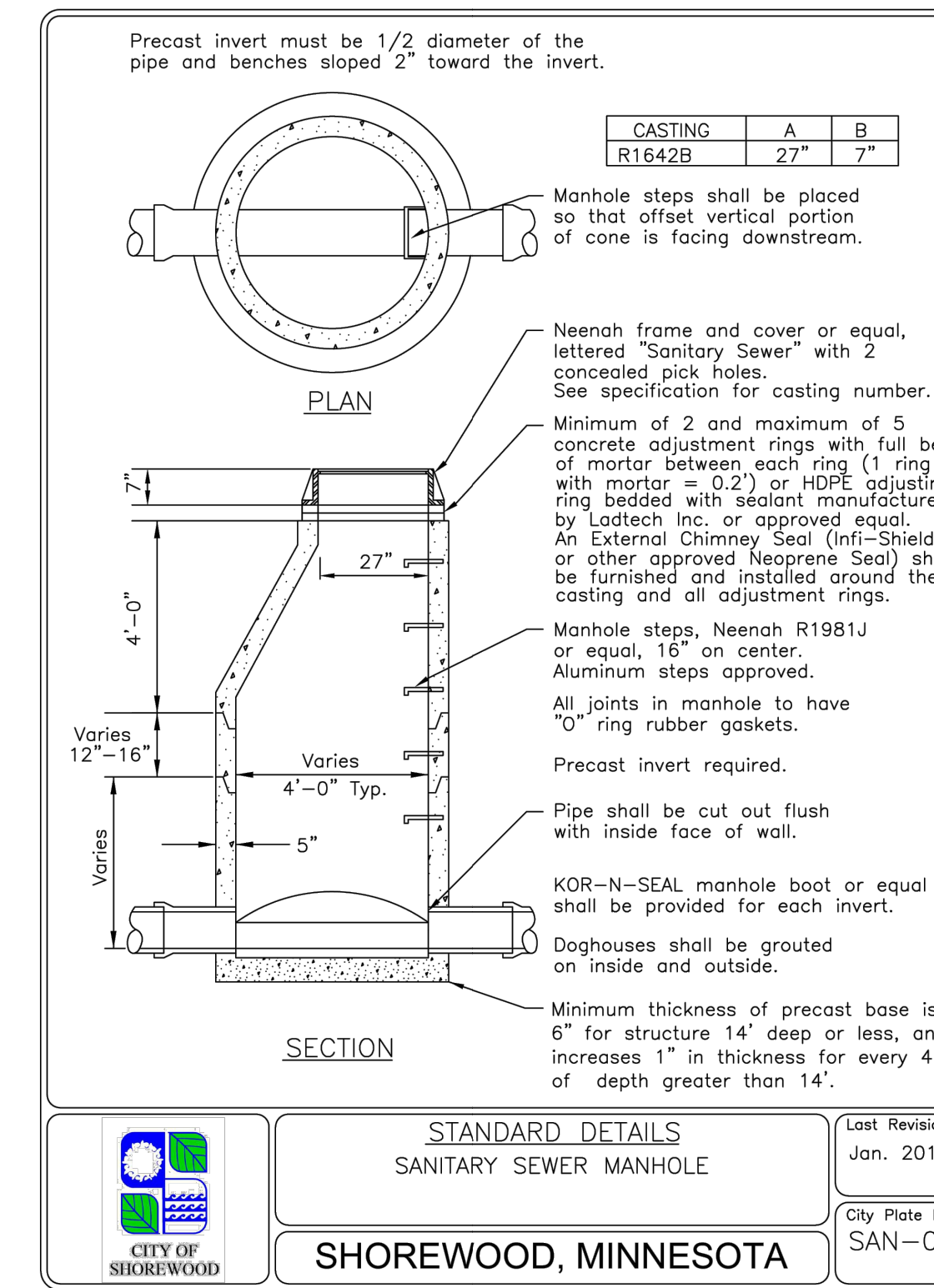
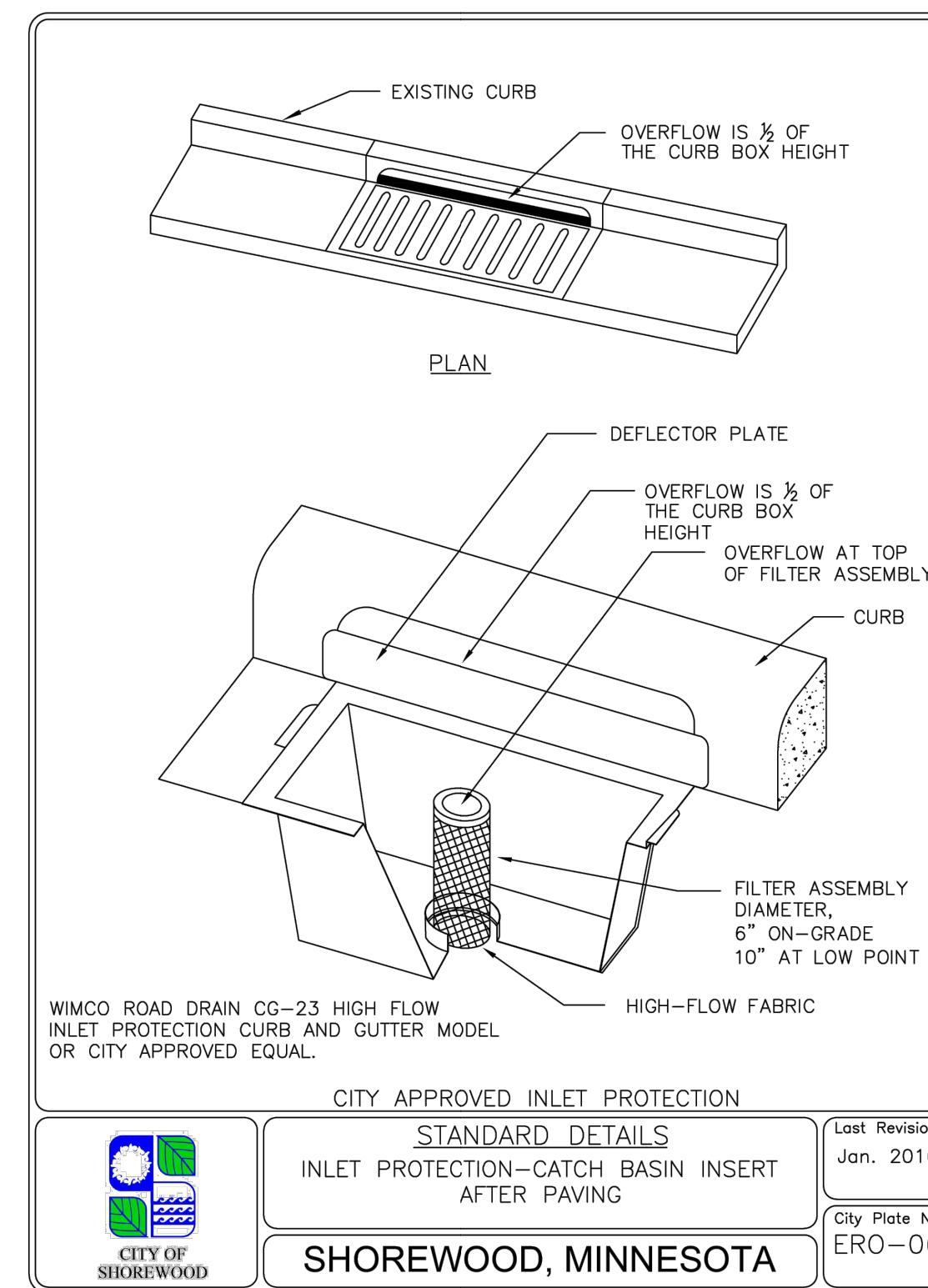
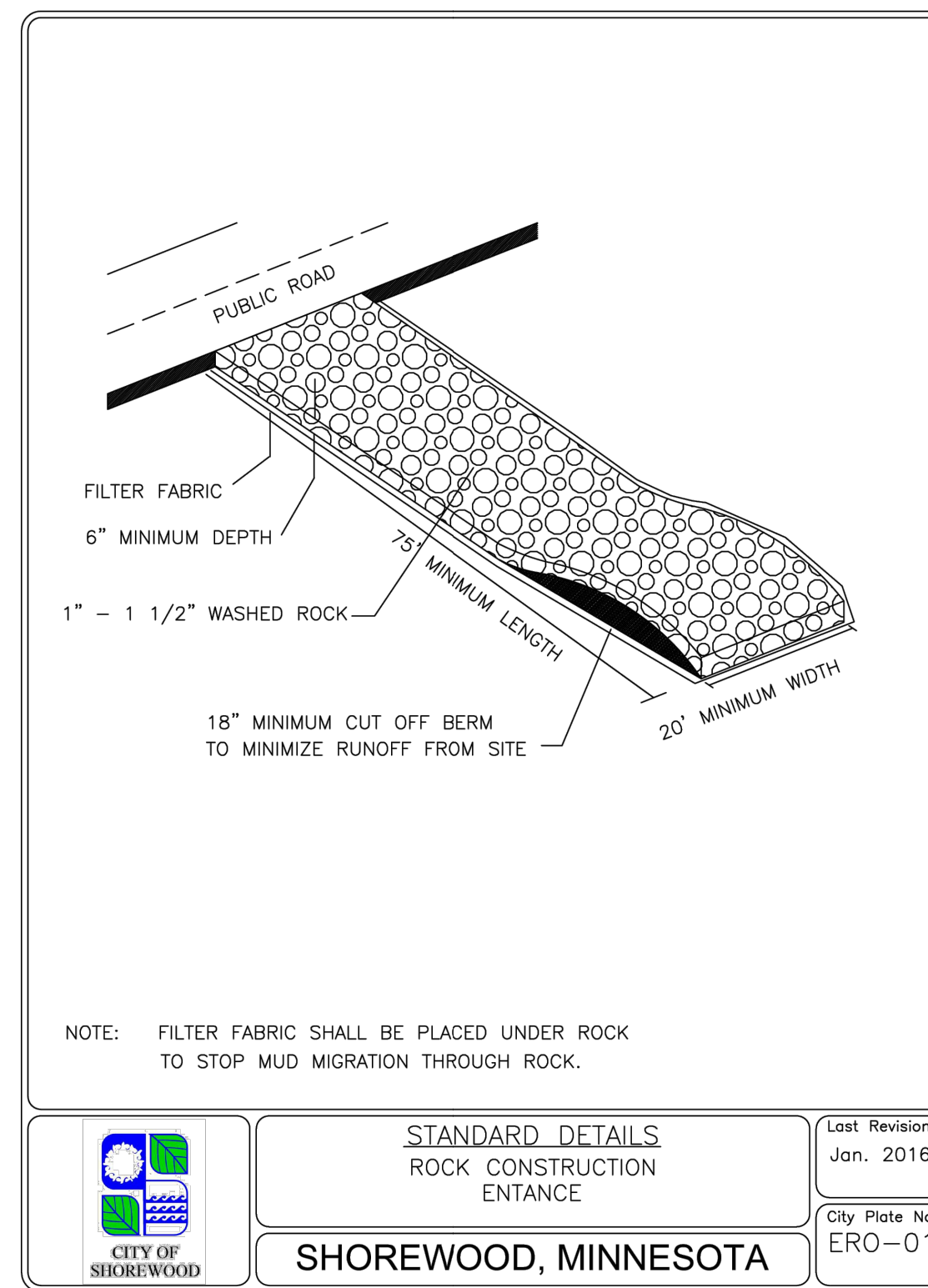
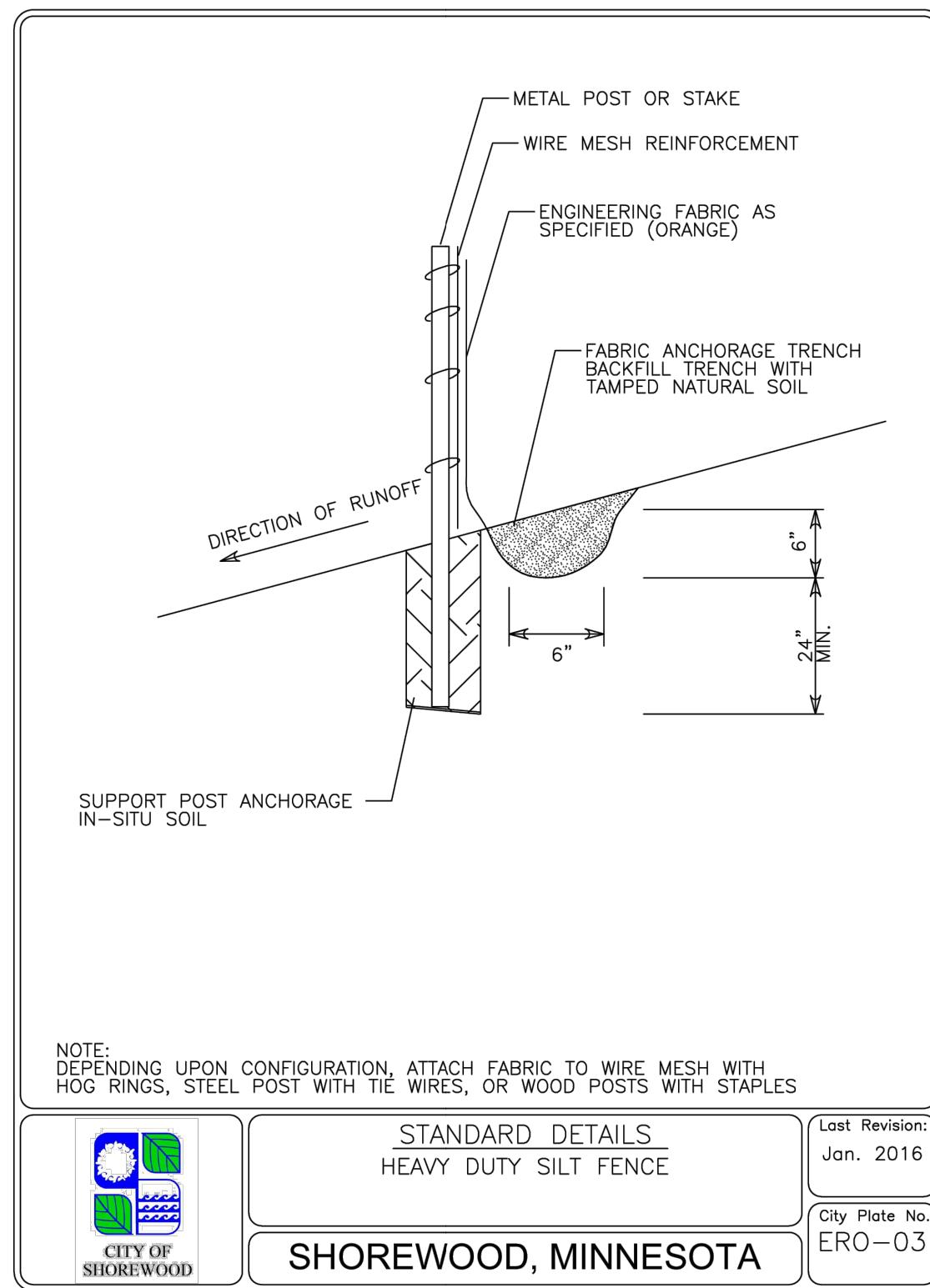
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PROJECT

MM CAPITAL SHOREWOOD, LLC

ADDITION/REMODELING

19765 MN - 7
SHOREWOOD, MINNESOTA

ISSUED SET JAN. 08, 2025

REVISIONS

DATE NO. 1/8/25 1 FINAL WATERSHED

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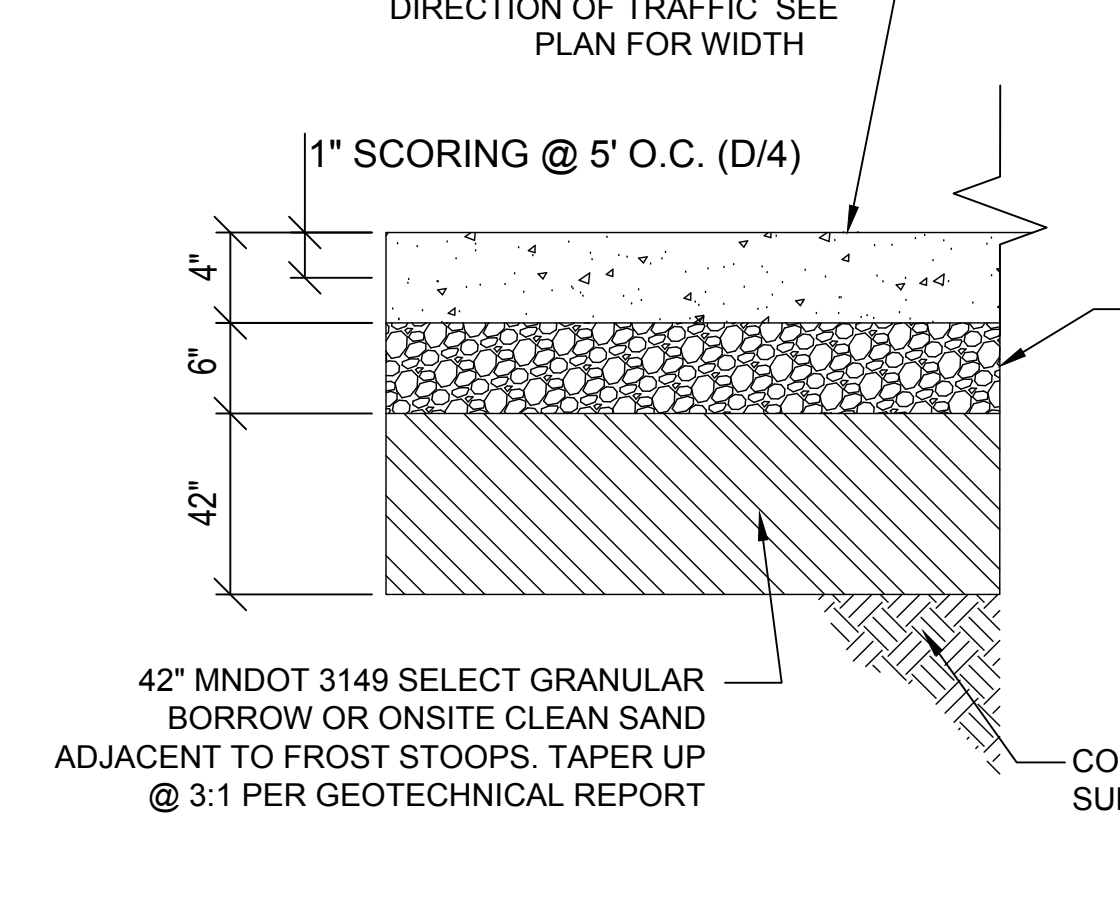
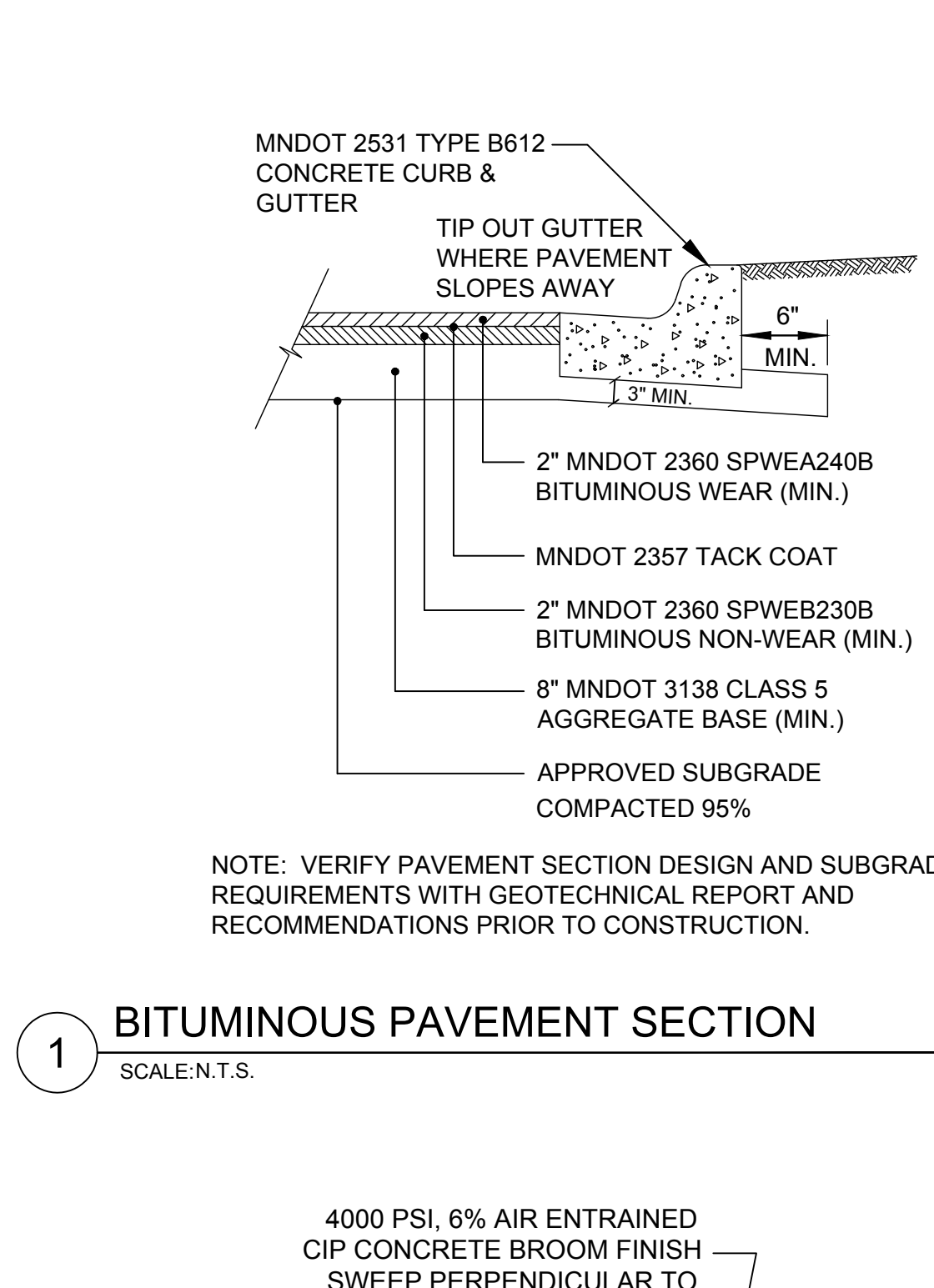
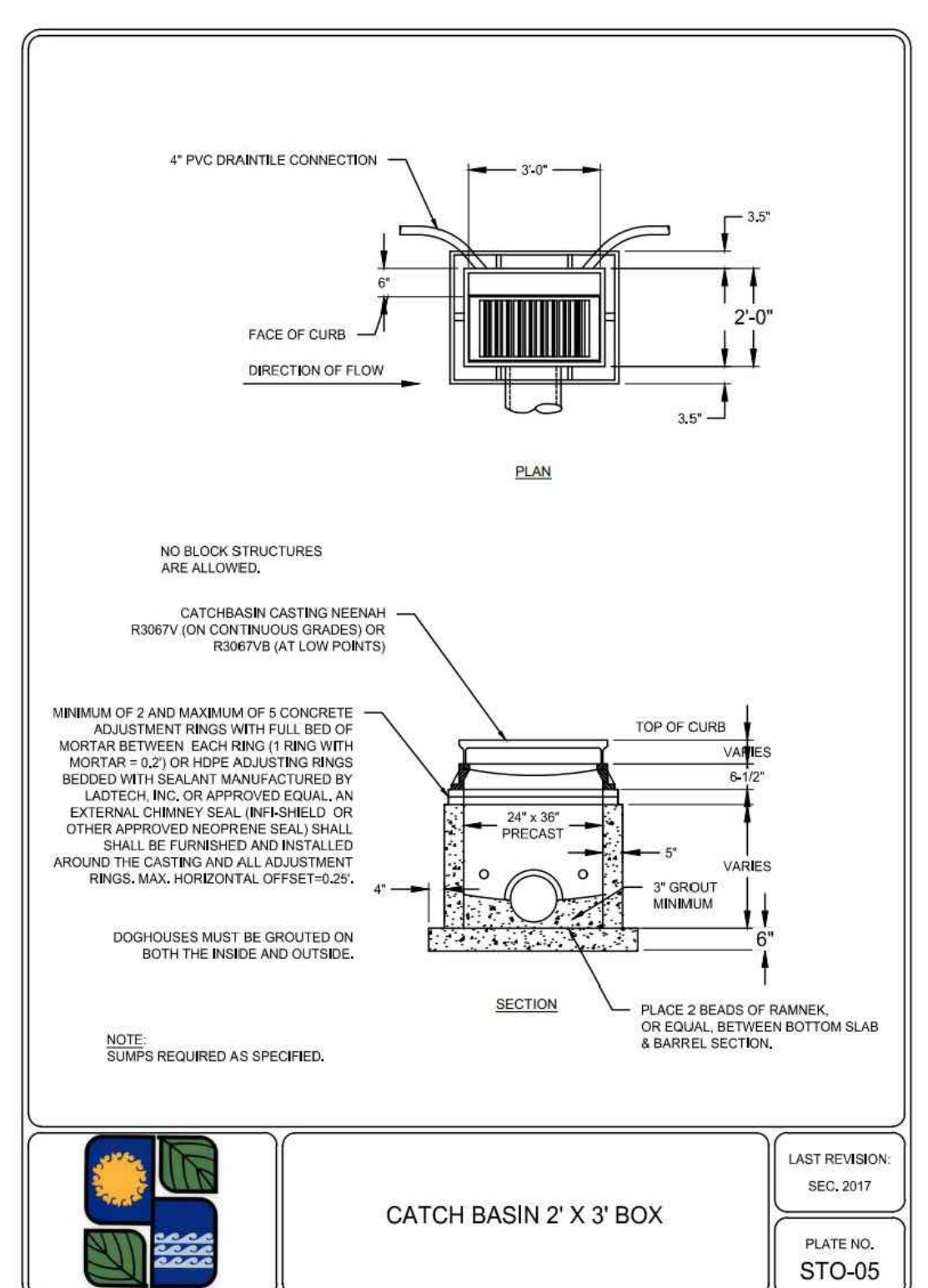
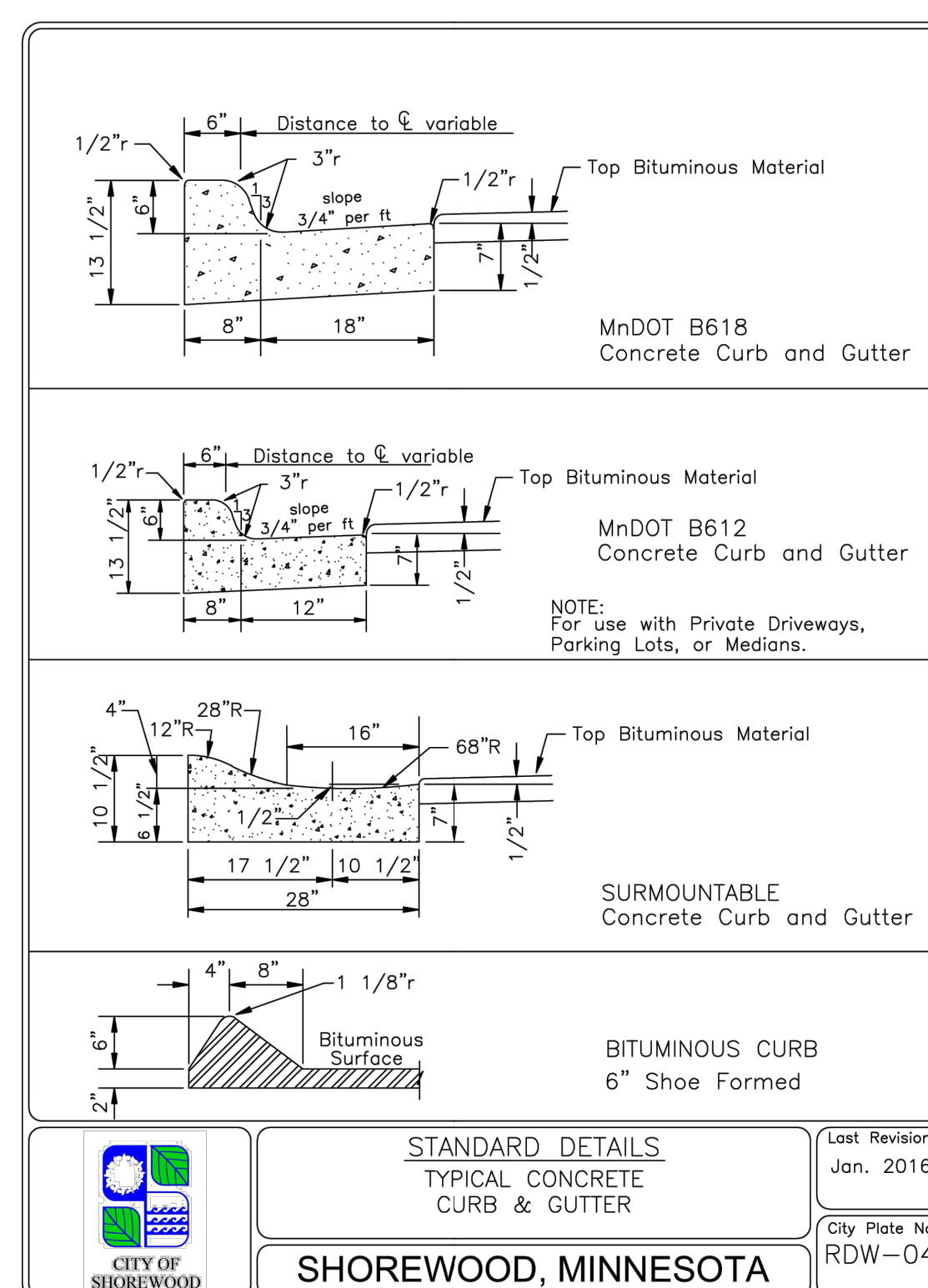
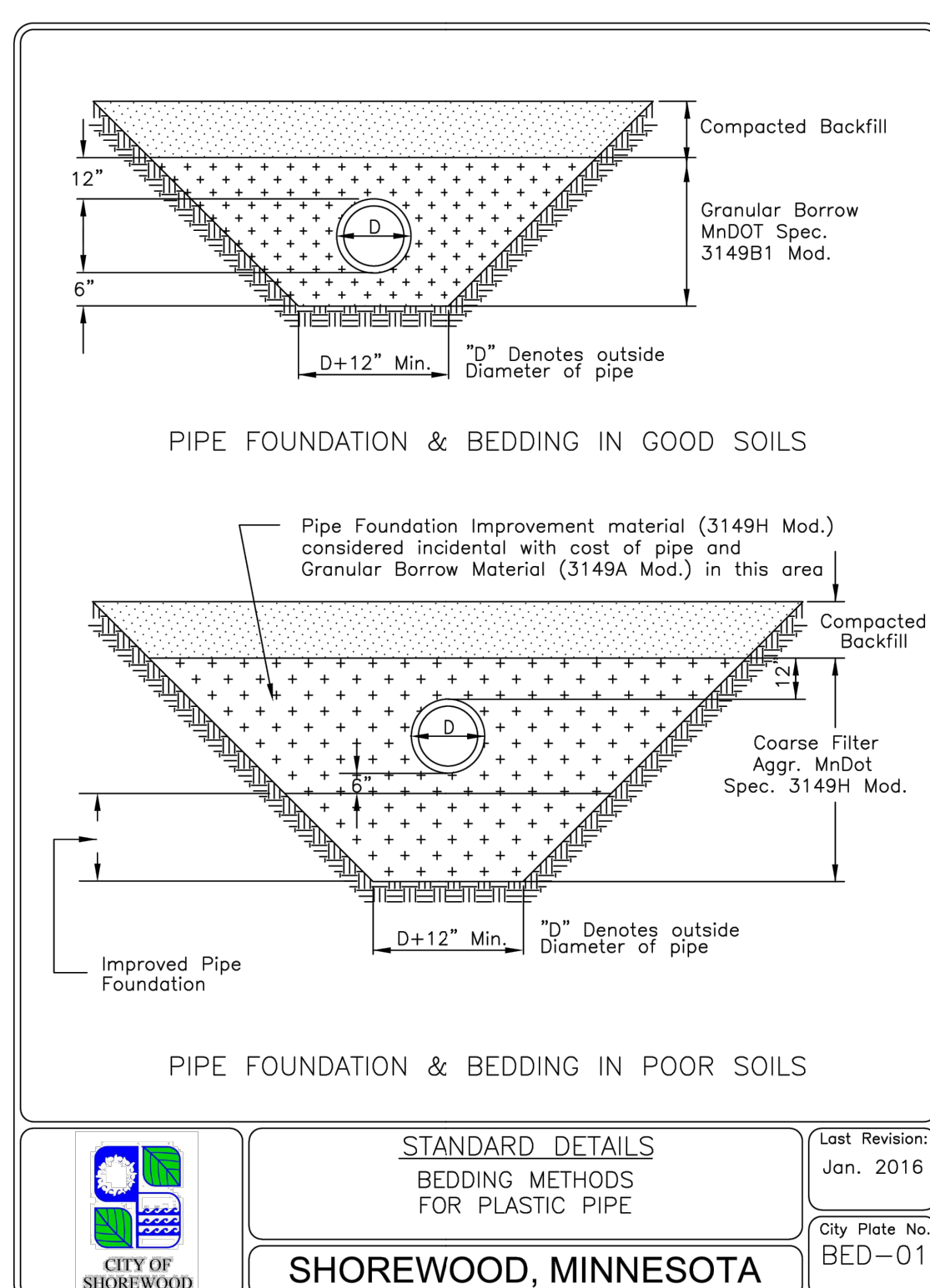
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DETAILS

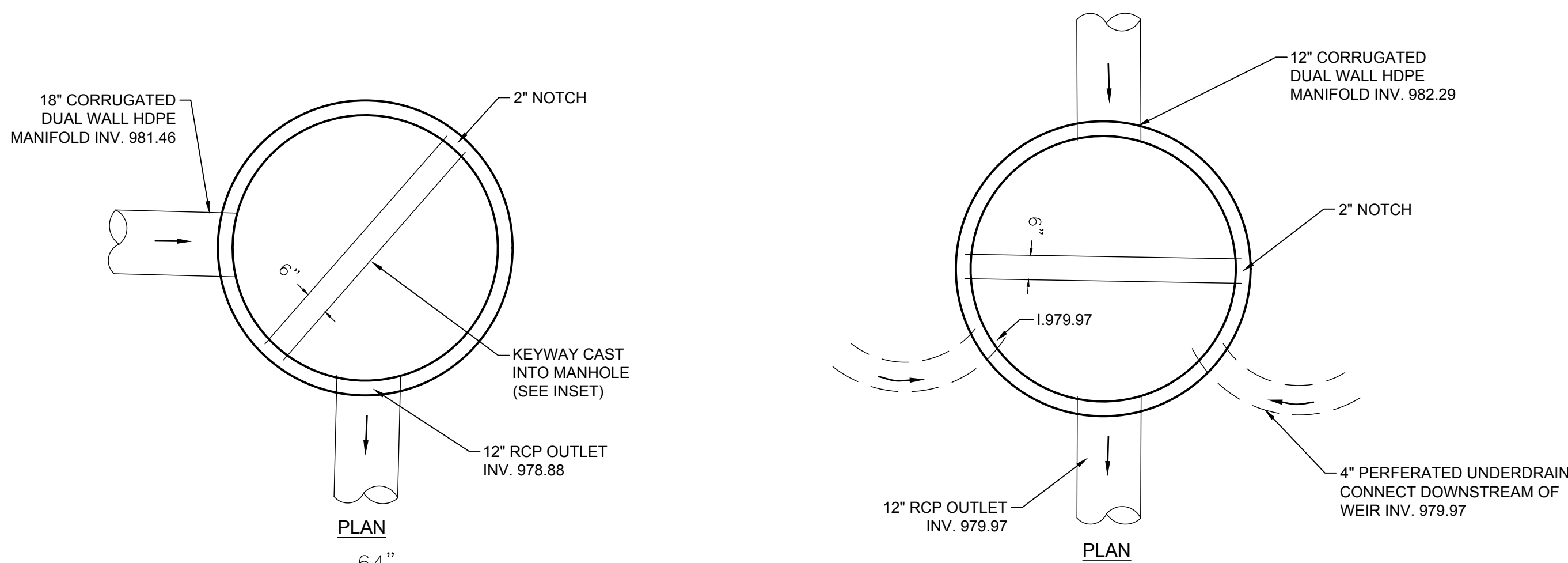
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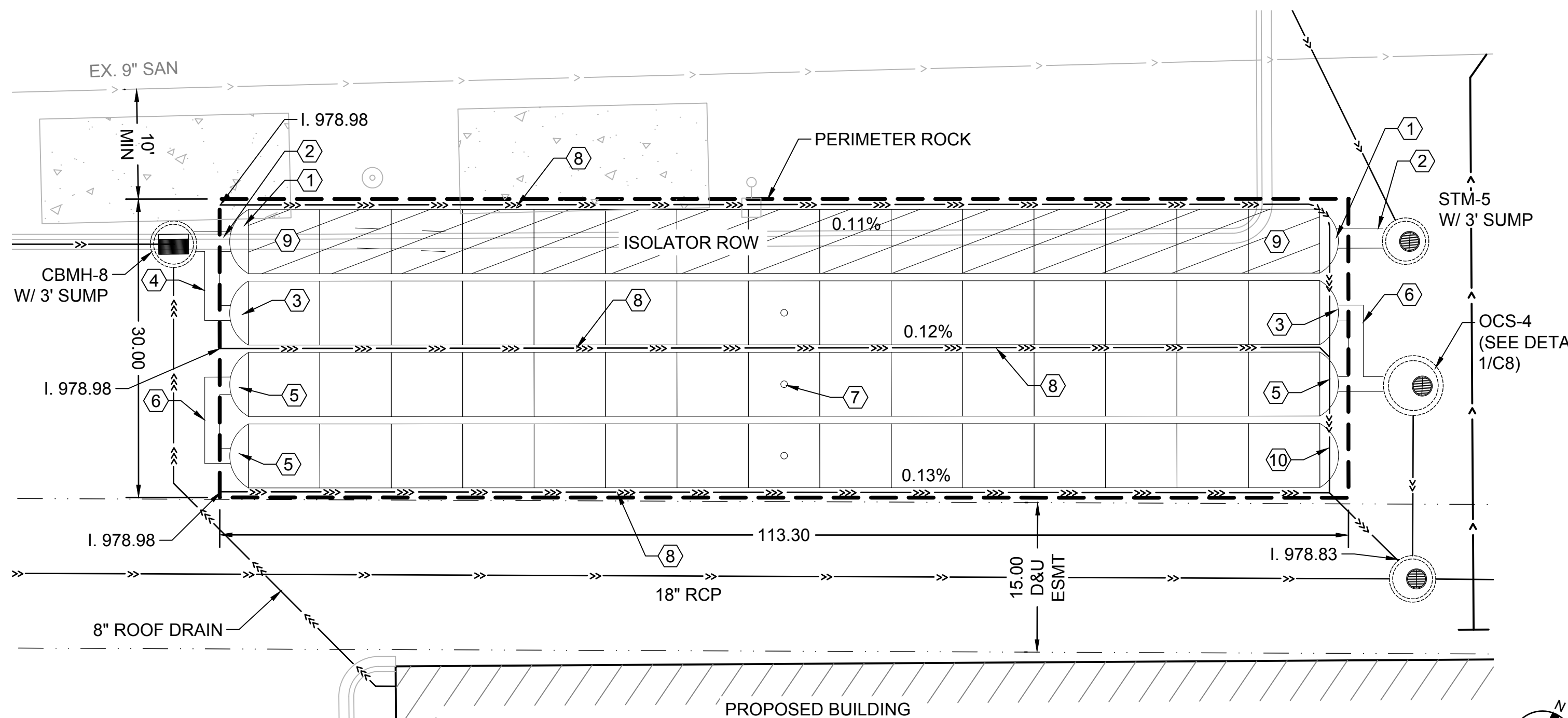
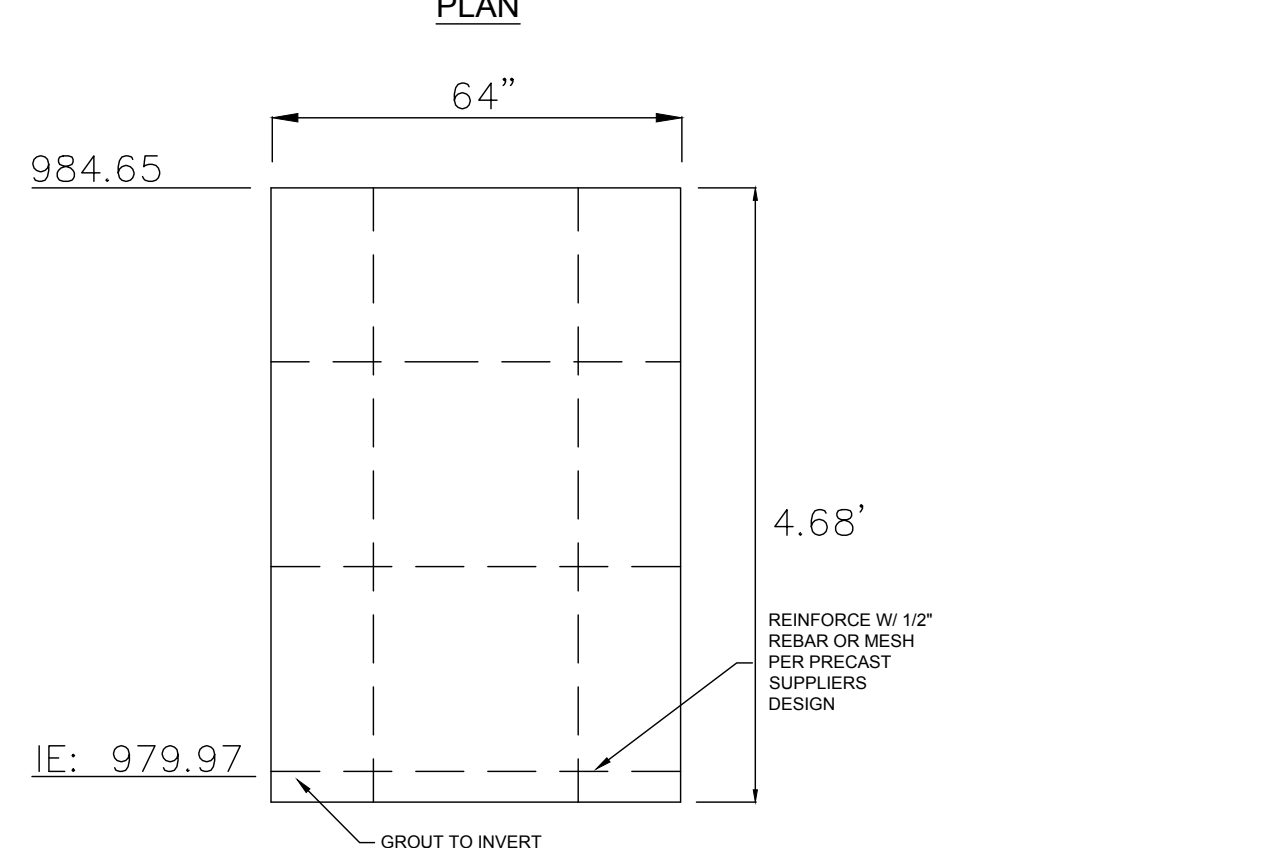
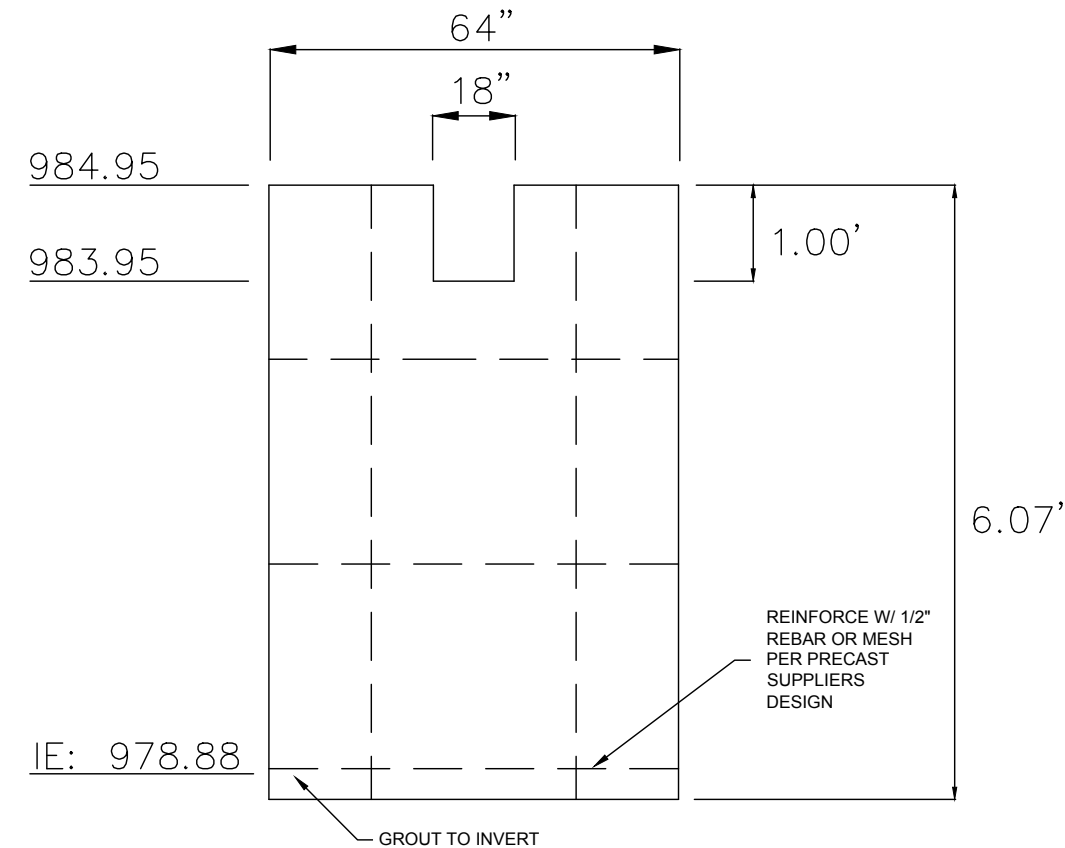
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KEY NOTES - MC-3500

- ① 24" BOTTOM PREFABRICATED END CAP/TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR ROWS.
- ② 24" BOTTOM CONNECTION, ADS N-12.
- ③ 18" TOP PREFABRICATED END CAP/TYP OF ALL 18" TOP CONNECTIONS.
- ④ 18" TOP CONNECTION, ADS N-12.
- ⑤ 18" BOTTOM PREFABRICATED END CAP/TYP OF ALL 18" BOTTOM CONNECTIONS.
- ⑥ 18" BOTTOM CONNECTION, ADS N-12.
- ⑦ INSPECTION PORT (TYP.). SEE DETAIL 4/C6.
- ⑧ 4" ADS N-12 DUAL WALL PERFORATED DRAINTILE AT INVERT SHOWN IN PROPOSED ELEVATIONS. INSTALL DRAINTILE CONNECTION ON DOWN STREAM SIDE OF CONCRETE WEIR WITHIN OCS-4. WRAP PIPE WITH SOCK MEETING MNDOT SPEC 3733 TYPE I FABRIC.
- ⑨ PLACE MIN. 17.5' OF ADS GEOSYNTHETICS 315WTM WOVEN GEOTEXTILE OVER BEDDING STONE UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS.
- ⑩ NO CONNECTION END CAP

PROPOSED LAYOUT	
60	STORMTECH MC-3500 CHAMBERS
8	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
12	FILTER SAND BELOW (in)
3,395	SYSTEM AREA (SF)
287	SYSTEM PERIMETER (ft)
4	PAVEMENT THICKNESS (in)
PROPOSED ELEVATIONS	
993.06	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT)
986.89	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT)
986.06	TOP OF STONE
985.06	TOP OF MC-3500 CHAMBER
982.98	18" TOP MANIFOLD INVERT
981.46	18" BOTTOM CONNECTION INVERT
981.48	24" ISOLATOR ROW INVERT
981.31	BOTTOM OF MC-3500 CHAMBER
980.56	BOTTOM OF STONE
979.56	BOTTOM OF FILTER SAND
978.98	4" PERF. DRAINTILE INV. ELEVATION



3 UNDERGROUND INFILTRATION CHAMBERS LAYOUT - NORTH - MC-3500

1 OUTLET MANHOLE OCS-4 DETAIL

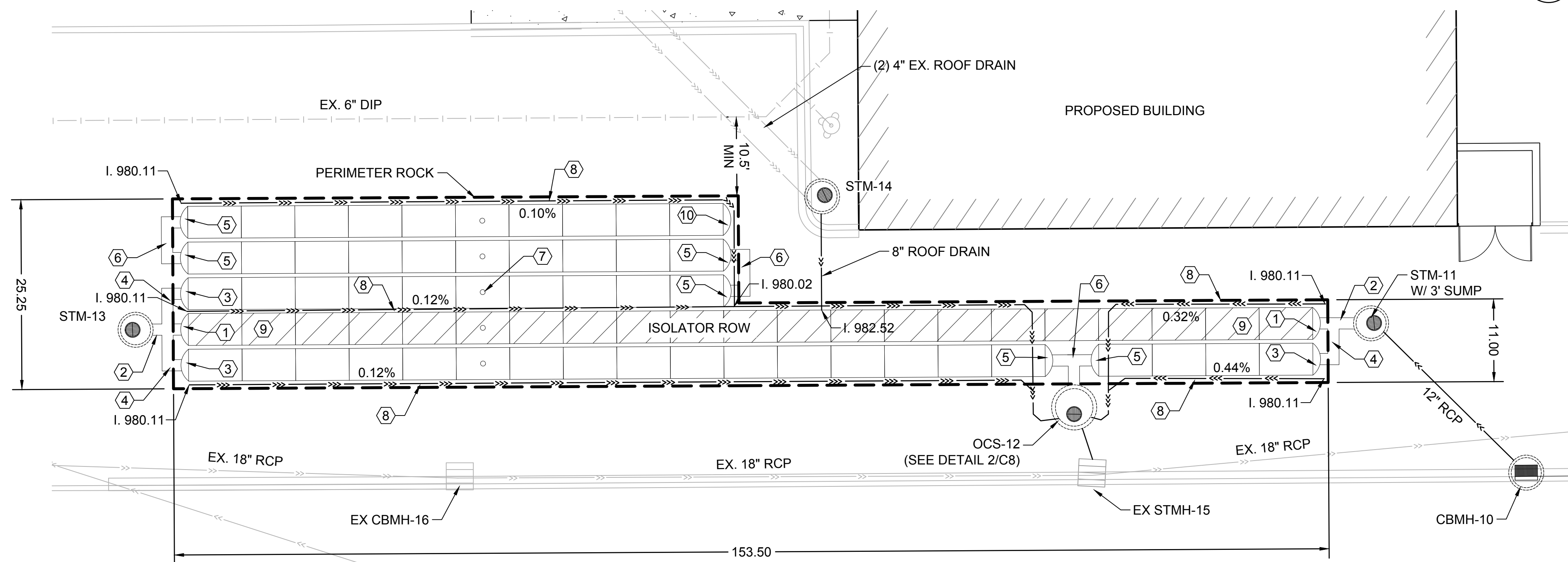
2 OUTLET MANHOLE OCS-12 DETAIL

KEY NOTES - SC-740

- ① 24" BOTTOM PREFABRICATED END CAP.
- ② 24" BOTTOM CONNECTION, ADS N-12.
- ③ 12" TOP PREFABRICATED END CAP/TYP OF ALL 12" TOP CONNECTIONS.
- ④ 12" TOP CONNECTION, ADS N-12.
- ⑤ 12" BOTTOM PREFABRICATED END CAP/TYP OF ALL 12" BOTTOM CONNECTIONS.
- ⑥ 12" BOTTOM CONNECTION, ADS N-12.
- ⑦ INSPECTION PORT (TYP.). SEE DETAIL 4/C7.
- ⑧ 4" ADS N-12 DUAL WALL PERFORATED DRAINTILE AT INVERT AT INVERT SHOWN IN PROPOSED ELEVATIONS. INSTALL DRAINTILE CONNECTION ON DOWN STREAM SIDE OF CONCRETE WEIR WITHIN OCS-12. WRAP PIPE WITH SOCK MEETING MNDOT SPEC 3733 TYPE I FABRIC.
- ⑨ PLACE MIN. 17.5' OF ADS GEOSYNTHETICS 315WTM WOVEN GEOTEXTILE OVER BEDDING STONE UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS.
- ⑩ NO CONNECTION END CAP.

SC-740 CHAMBERS

PROPOSED LAYOUT	
71	STORMTECH SC-740 CHAMBERS
12	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
12	FILTER SAND BELOW (in)
2,760	SYSTEM AREA (SF)
357	SYSTEM PERIMETER (ft)
4	PAVEMENT THICKNESS (in)
PROPOSED ELEVATIONS	
992.69	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT)
986.52	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT)
985.19	TOP OF STONE
984.69	TOP OF SC-740 CHAMBER
983.23	12" TOP MANIFOLD INVERT
982.29	12" BOTTOM CONNECTION INVERT
982.19	24" ISOLATOR ROW INVERT
982.19	BOTTOM OF SC-740 CHAMBER
981.69	BOTTOM OF STONE
980.69	BOTTOM OF FILTER SAND
980.11	4" PERF. DRAINTILE INV. ELEVATION



4 UNDERGROUND INFILTRATION CHAMBERS LAYOUT - SOUTH - SC-740



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PROJECT

MM CAPITAL SHOREWOOD, LLC

ADDITION/REMODELING

19765 MN - 7
SHOREWOOD, MINNESOTA

ISSUED SET JAN. 08, 2025

REVISIONS

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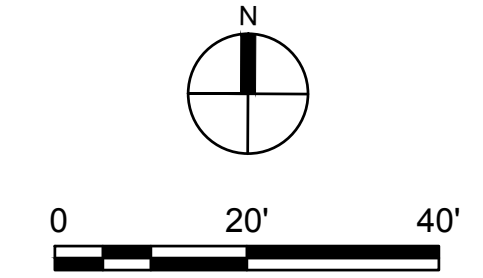
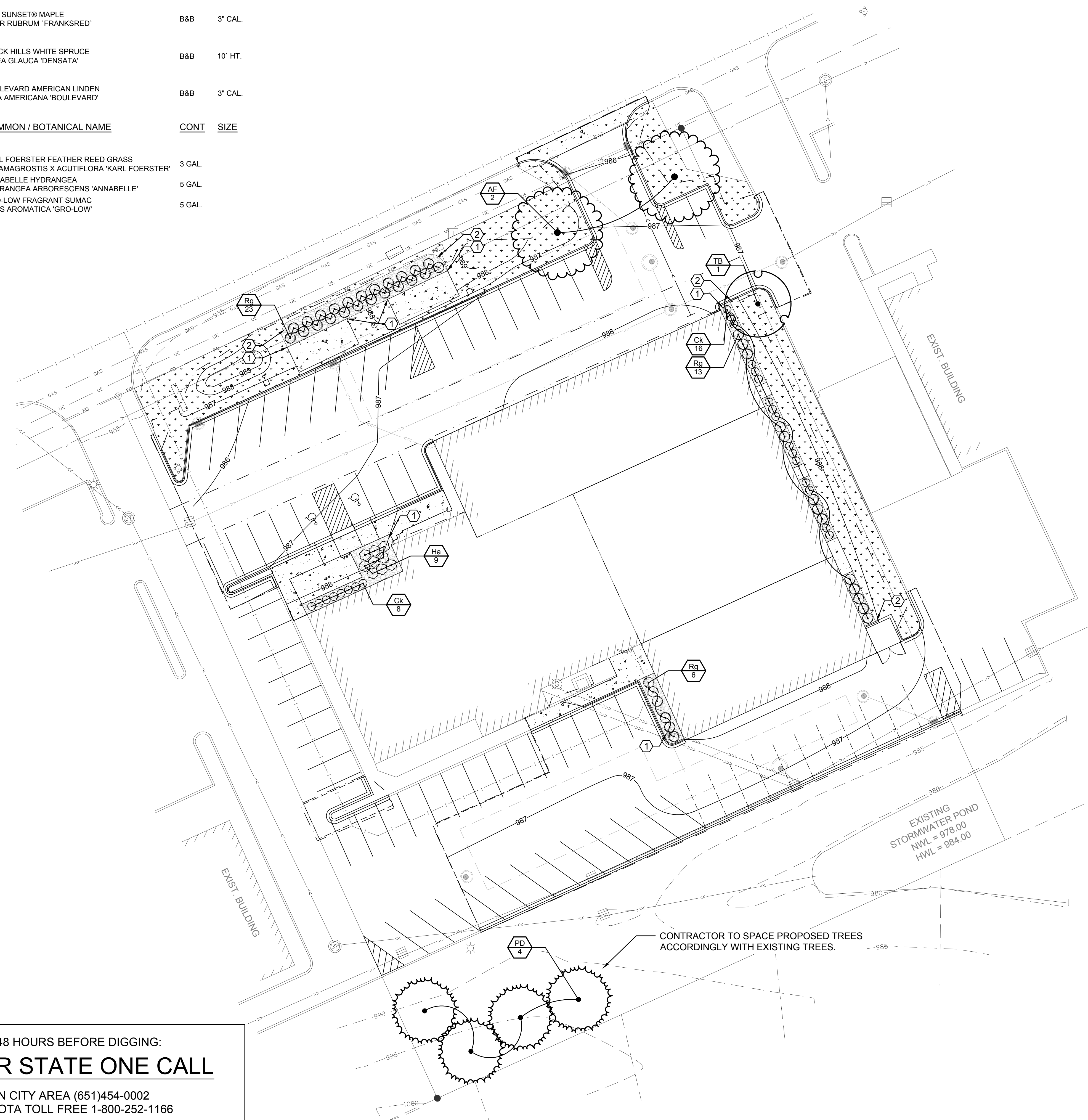
STORM CHAMBER LAYOUTS

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C8

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL
TREES					
	AF	2	RED SUNSET® MAPLE ACER RUBRUM 'FRANKSRED'	B&B	3" CAL.
	PD	4	BLACK HILLS WHITE SPRUCE PICEA GLAUCA 'DENSATA'	B&B	10' HT.
	TB	1	BOULEVARD AMERICAN LINDEN TILIA AMERICANA 'BOULEVARD'	B&B	3" CAL.
SHRUBS					
	Ck	24	KARL FOERSTER FEATHER REED GRASS CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	3 GAL.	
	Ha	9	ANNABELLE HYDRANGEA HYDRANGEA ARBORESCENS 'ANNABELLE'	5 GAL.	
	Rg	42	GRO-LOW FRAGRANT SUMAC RHUS AROMATICA 'GRO-LOW'	5 GAL.	



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LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- NEW SOD
- 3" DEEP ROCK MULCH W/ FABRIC, MATCH EXISTING

NOTES

1. PER CITY OF SHOREWOOD CODE, IRRIGATION IS NOT REQUIRED
2. IF A DISCREPANCY IS FOUND, THE PLANTING PLAN SHALL OVERRIDE THE PLANT SCHEDULE.

KEY NOTES

- ① ROCK MULCH
- ② POLY LANDSCAPE EDGER, SEE DETAIL 2/L2

CITY OF SHOREWOOD
LANDSCAPE REQUIREMENTS

1. WHERE INCOME-PRODUCING PROPERTIES ABUT A PROPERTY ZONED FOR RESIDENTIAL USE, THERE SHALL BE SCREENING ALONG THE BOUNDARY OF THE RESIDENTIAL PROPERTY.
 - 1.1. THE PROJECT SITE AND ALL ADJACENT PROPERTIES ARE ZONED AS PUD. PER CITY REQUEST, ADDITIONAL SCREENING HAS BEEN PROPOSED ALONG THE SOUTH PROPERTY LINE, BETWEEN THE PROJECT SITE AND THE ADJACENT RESIDENTIAL DEVELOPMENT.
2. PER CITY REQUEST, ADDITIONAL LANDSCAPING HAS BEEN PROPOSED ALONG THE NORTHERN PROPERTY LINE TO ENHANCE THE GREEN SPACE BETWEEN THE PROJECT SITE PARKING LOT AND THE HIGHWAY 7 FRONTAGE ROAD.

CITY OF SHOREWOOD
TREE PRESERVATION REQUIREMENTS

SEVEN (7) EXISTING TREES ONSITE TO BE REMOVED:

THREE (3) RED MAPLES (ACER RUBRUM)
1 @ 8" DBH
2 @ 5" DBH

FOUR (4) CRABAPPLES (MALUS)
1 @ 12" DBH
1 @ 8" DBH
2 @ 5" DBH

TWO (2) EXISTING TREES REMOVED AT 8" = FOUR (4) PROPOSED 3" CALIPER DECIDUOUS TREES OR 6' TALL CONIFEROUS TREES

ONE (1) EXISTING TREE REMOVED AT 12" = THREE (3) PROPOSED 3" CALIPER DECIDUOUS TREES OR 6' TALL CONIFEROUS TREES.

TOTAL REPLACEMENT TREES REQUIRED:
SEVEN (7) AT 3" CALIPER OR 6' HEIGHT
TOTAL REPLACEMENT TREES PROVIDED:
SEVEN (7) AT 3" CALIPER AND 10' HEIGHT

PROJECT

MM CAPITAL SHOREWOOD, LLC

ADDITION/REMODELING

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SHOREWOOD, MINNESOTA

ISSUED SET JAN. 08, 2025

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LANDSCAPE PLAN

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GENERAL LANDSCAPE NOTES

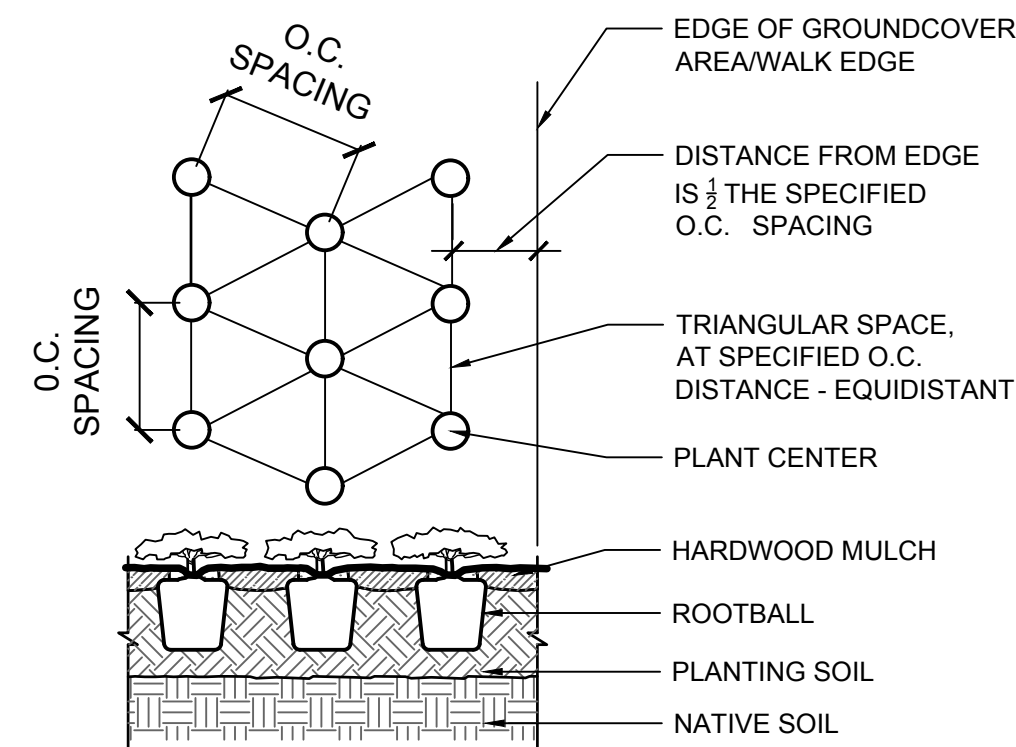
- LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO BECOME COMPLETELY FAMILIAR WITH SITE CONDITIONS.
- NO PLANTING SHALL BE INSTALLED UNTIL ALL GRADING, BUILDING, CONSTRUCTION, UTILITY WORK & IRRIGATION HAS BEEN COMPLETED IN THE AREAS TO BE PLANTED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL UNDERGROUND CABLES, CONDUITS, WIRES, ETC., ON THE PROPERTY.
- ALL PROPOSED PLANT MATERIAL SHALL BE LOCATED CAREFULLY AS SHOWN ON THE PLAN. IF THE CONTRACTOR BELIEVES AN ERROR HAS BEEN MADE REGARDING SPACING OR LOCATION OF THE PLANT MATERIAL INDICATED ON THE PLAN, NOTIFY THE OWNER PRIOR TO INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE MAINTENANCE OF THE PLANT MATERIAL (WATERING, SPRAYING, FERTILIZING, MOWING, ETC.) UNTIL THE WORK HAS BEEN ACCEPTED, BY THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS TO PROPERTY DAMAGE FROM PLANTING OPERATIONS AT NO COST TO THE OWNER.
- ALL NEWLY PLANTED PLANT MATERIAL SHALL BE GUARANTEED THROUGH ONE CALENDAR YEAR STARTING FROM THE DATE OF ACCEPTANCE ESTABLISHED BY THE OWNER.
- THE CONTRACTOR SHALL MEET WITH THE OWNER OR OWNERS REPRESENTATIVE ON SITE WHEN THEY FEEL THE PROJECT IS COMPLETE ACCORDING TO THE CONTRACT DOCUMENTS. IF ALL WORK IS SATISFACTORY AND COMPLETE ACCORDING TO THE CONDITIONS OF THE CONTRACT DOCUMENTS, THEN THE OWNER MUST DECLARE THE PROJECT COMPLETE. THIS DECLARATION WILL CONSTITUTE AS THE BEGINNING OF THE ONE (1) YEAR WARRANTY PERIOD FOR ALL PLANT MATERIAL. THE OWNER SHALL PROVIDE A LETTER WITH SIGNATURE STATING THE DATE OF ACCEPTANCE.
- WIND BURN OR OTHERWISE DAMAGED PLANT MATERIAL WILL NOT BE ACCEPTED.
- CONTRACTOR CAN SUBSTITUTE MACHINE MOVED MATERIAL USING APPROPRIATE SIZE TREE SPADE FOR B & B WITH OWNER APPROVAL.
- THE PRACTICE OF STAKING SHOULD NOT ALLOW NAILS, SCREWS, WIRES, ETC. TO PENETRATE THE OUTER SURFACE OF THE TREES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL TREE STAKES, GUYS, STRAPS AND TRUNK PROTECTION MEASURES FOLLOWING THE COMPLETION OF THE WARRANTY PERIOD OR AS DIRECTED BY THE OWNER.
- LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE THE OWNER WITH MAINTENANCE INFORMATION DURING THE GUARANTEE PERIOD RELATING TO WATERING, FERTILIZING, PRUNING, PEST CONTROL, AND RELATED ITEMS. THIS WILL BE PREPARED AND DELIVERED TO THE OWNER AFTER PROVISIONAL INSPECTION APPROVAL HAS BEEN GIVEN BY THE OWNER.
- INSTALL CORRUGATED PLASTIC TREE GUARDS, WHITE IN COLOR, WITH THE SIZE OF TUBE 1" DIA. (MIN.) LARGER THAN THE CALIPER OF THE TREE TO BE PROTECTED.
- CONTRACTOR TO FURNISH & STALL PLASTIC EDGING AS SHOWN ON THE PLANS & DETAILS. PLASTIC EDGING SHALL BE MEDIUM DENSITY POLYETHYLENE WITH U.V. INHIBITOR, BLACK IN COLOR, WITH A TOTAL DEPTH OF 5" (1" DIA. TOP AND 4" SHAFT WITH 1.5" V EVERY 3-1/2 FEET OF EDGING.
- PLANT BEDS SHALL BE MULCHED WITH ROCK MULCH THAT MATCHES EXISTING ON SITE.
- LANDSCAPE FABRIC (FILTER MAT) TO HAVE A COMBINED WEIGHT OF 4.5-5.5 OZ. PER S.Y. FABRIC SHOULD BE U.V. STABILIZED AND HAVE A FIVE YEAR MINIMUM WEATHERABILITY FACTOR IN FULL SUNLIGHT. FABRIC TO BE PHILLIPS DUON R OR EQUIVALENT. LANDSCAPE FABRIC INSTALLED WITH HOLES FOR PLANTS CUT 2.5 TIMES THE DIAMETER OF THE CONTAINER.
- 3" DEPTH SHREDDED HARDWOOD MULCH SHALL BE INSTALLED UNDER ALL TREES THAT ARE ISOLATED FROM GROUND COVER AREAS.
- CALIPER OF TREES UP TO AND INCLUDING 4" SHALL BE MEASURED AT 6" ABOVE GROUND LEVEL, AND 12" ABOVE GROUND LEVEL FOR LARGER SIZES.
- FOR BALLED & BURLAP PLANT MATERIAL, REMOVE THE TOP HALF OF THE BURLAP FROM THE ROOT BALL. WIRE CAGES, STRAPS, ETC. SHALL BE REMOVED FROM THE TOP HALF OF THE ROOTBALL BEFORE INSTALLATION.
- ALL CONTAINER MATERIAL SHALL HAVE BEEN GROWN IN CONTAINER FOR A MINIMUM OF 6 MONTHS PRIOR TO INSTALLATION.
- LANDSCAPE CONTRACTOR SHALL PROVIDE AND INSTALL NURSERY GROWN PLANT MATERIAL CONFORMING TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE LATEST EDITION OF ANSI Z60.1 STANDARDS UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

PLANTING, SODDING AND TOPSOIL NOTES

- LANDSCAPE CONTRACTOR SHALL ENSURE THAT NEW TREES MOVED ONTO THE SITE ARE DUG FROM SIMILAR SITES WITH SIMILAR SOILS TO THE SOILS OF THIS PROJECT (HEAVY TO HEAVY, LIGHT TO LIGHT, HEAVY TO LIGHT SOILS), CONTRACTOR SHALL REVIEW SOIL CONDITIONS/TYPES WITH OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL NEWLY INSTALLED PLANT MATERIAL SHALL BE PLANTED IN WELL-DRAINED AREAS. NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF ANY PLANT MATERIAL IS LOCATED IN DRAINAGE SWALES OR WET & POORLY DRAINED AREAS.
- ALL PLANTINGS SHALL RECEIVE FERTILIZER AS FOLLOWS:
 - SUMMER AND FALL PLANTING: 0-20-20 GRANULAR (IN SAUCER AROUND PLANT AT THE RATE OF 12 OZ. PER 2-3" CAL. TREE & 6 OZ. PER SHRUB).
 - SPRING PLANTING: 10-10-10 GRANULAR (APPLY ABOVE REFERENCED FERTILIZER AT A RATE OF 12 OZ. PER 1-1/2" CAL. TREE OR LARGER & 6 OZ. PER SHRUB & PERENNIAL).
- ALL PLANTINGS SHALL RECEIVE AN AMENDED SOIL MIX CONSISTING OF THREE (3) PARTS:
 - 45% APPROVED TOPSOIL (ONE SITE PREFERRED)
 - 45% ORGANIC MATTER (TYPE 1 SPHAGNUM PEAT MOSS FINELY DIVIDED WITH A PH OF 3.1 -5.0.)
 - 10% SAND (FINE CLEAN MASONRY SAND)
- AREAS TO RECEIVE SEED SHALL HAVE A 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL SHALL PROVIDE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY CLUMPS, BRUSH WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONE LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.

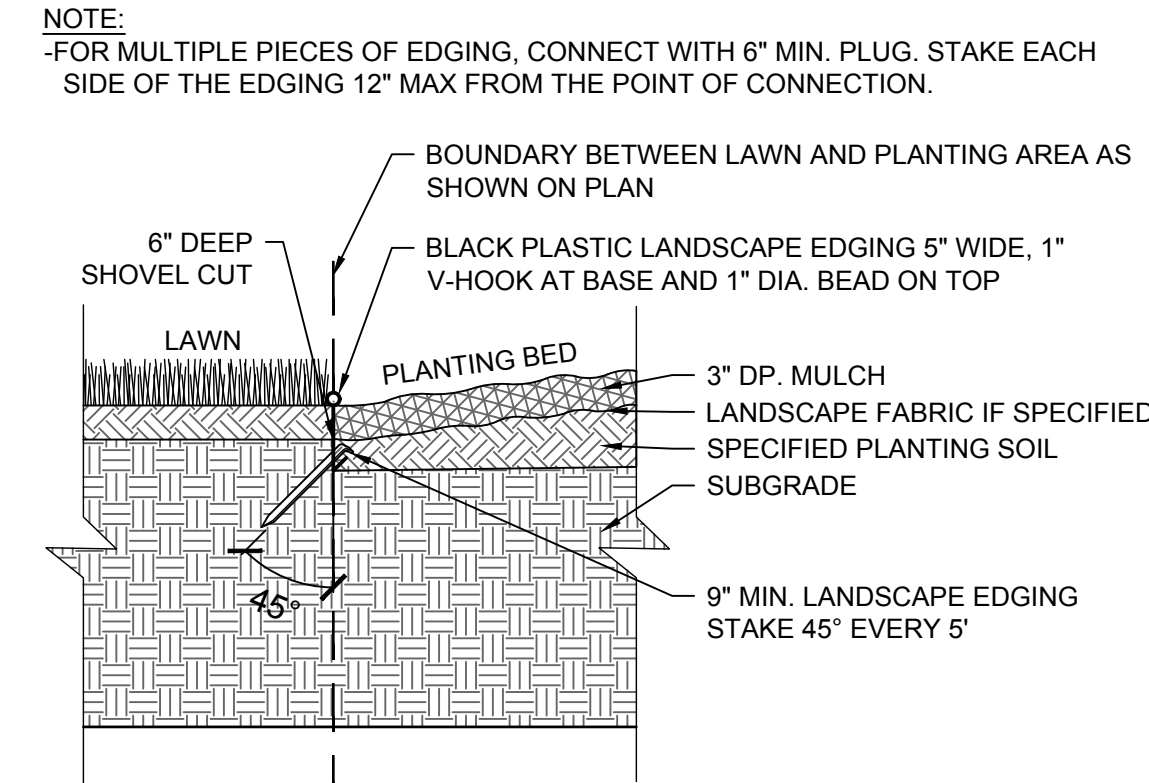
PLANT ESTABLISHMENT PERIOD

- THE REQUIRED WORK SHALL CONSIST OF CONTINUOUSLY CONDUCTING OPERATIONS AND MAINTENANCE FOR A WARRANTY PERIOD ESTABLISHED FOR 1 YEAR AFTER THE INSTALLATION HAS BEEN ACCEPTANCE BY THE OWNER. THE WORK INCLUDES:
 - ESTABLISHMENT OF BALLED AND BURLAPPED AND CONTAINER PLANT MATERIAL AND SODDED AREAS INCLUDING PEST CONTROL, FERTILIZING AND FUNGICIDAL TREATMENTS
 - REGULAR WATERING SCHEDULING FOR ALL PLANT MATERIAL AND SEED
 - IRRIGATIONS SYSTEM OPERATION AND MAINTENANCE
 - REMOVAL OF ALL WEEDS WITHIN THE PROJECT AREA BY METHODS AGREED BY THE OWNER (POST/PRE HERBICIDE TREATMENT, HAND OR MECHANICAL REMOVAL)
 - MAINTENANCE OF MISCELLANEOUS ITEMS (EROSION CONTROL PRODUCTS, REPAIRS FROM EROSION)
- PLANT MATERIAL DEEMED TO BE REPLACED AT THE END OF PLANT ESTABLISHMENT PERIOD SHALL BE EXECUTED WITHIN 2 WEEKS (14 DAYS) PRESENTING LESS THE FOLLOWING SURVIVORSHIP:
 - BALLED AND BURLAPPED AND CONTAINER PLANT MATERIAL: 75%
 - SEEDED AREAS: 100% (0% BARE SOIL)
- REPLACEMENT PLANTS AND SEED SHALL BE OF THE SAME SPECIES AND SIZE AS ORIGINALLY SPECIFIED ON THE DRAWINGS, UNLESS THE OWNER DETERMINES THAT SUBSTITUTIONS OF ANOTHER SPECIES OR SIZE SHALL BE MADE.

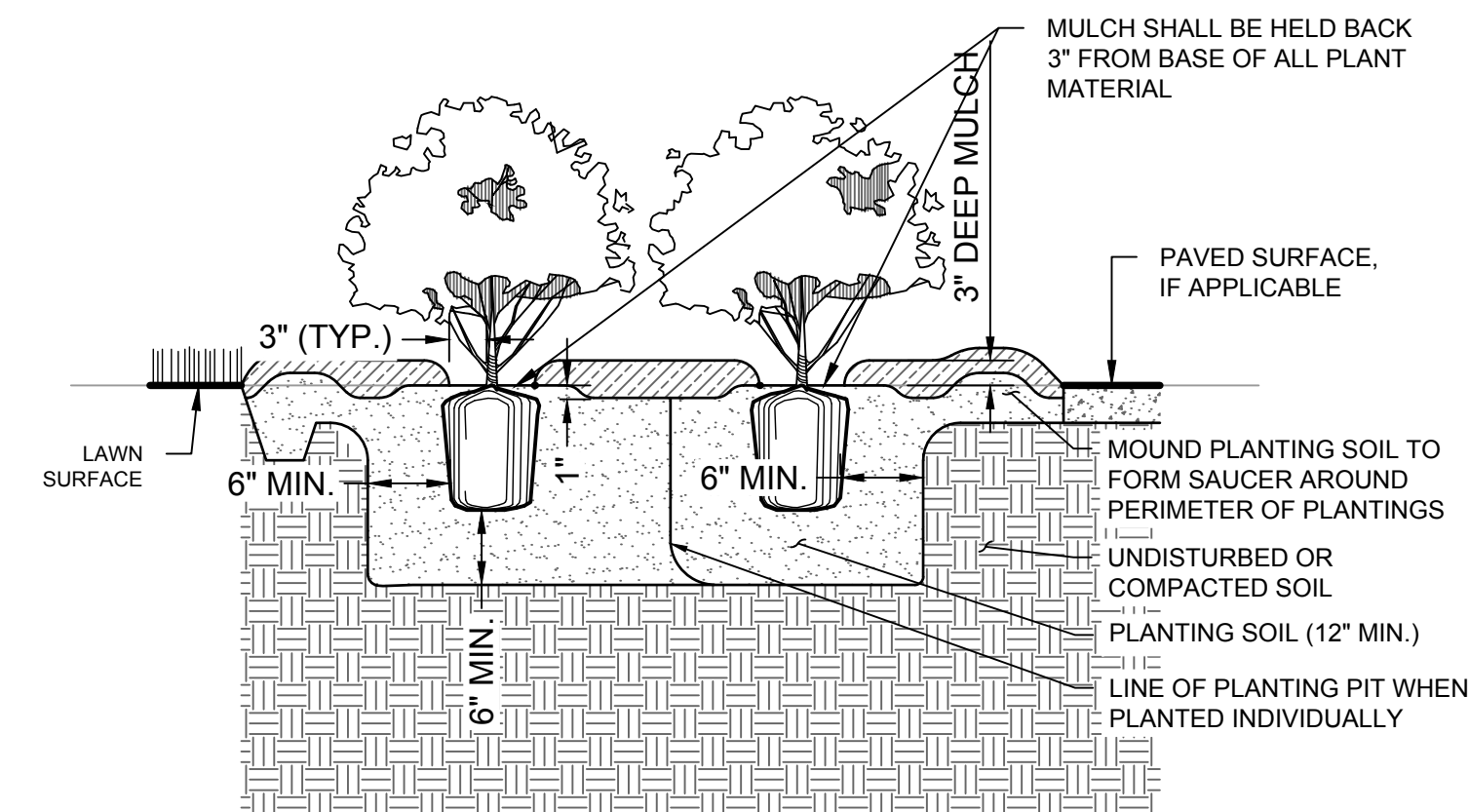


NOTE:
- KEEP MULCH APPX. 2" OFF PLANT TRUNK OR STEM
- SEE PLANT SCHEDULE FOR EACH PLANT'S APPROPRIATE O.C. SPACING

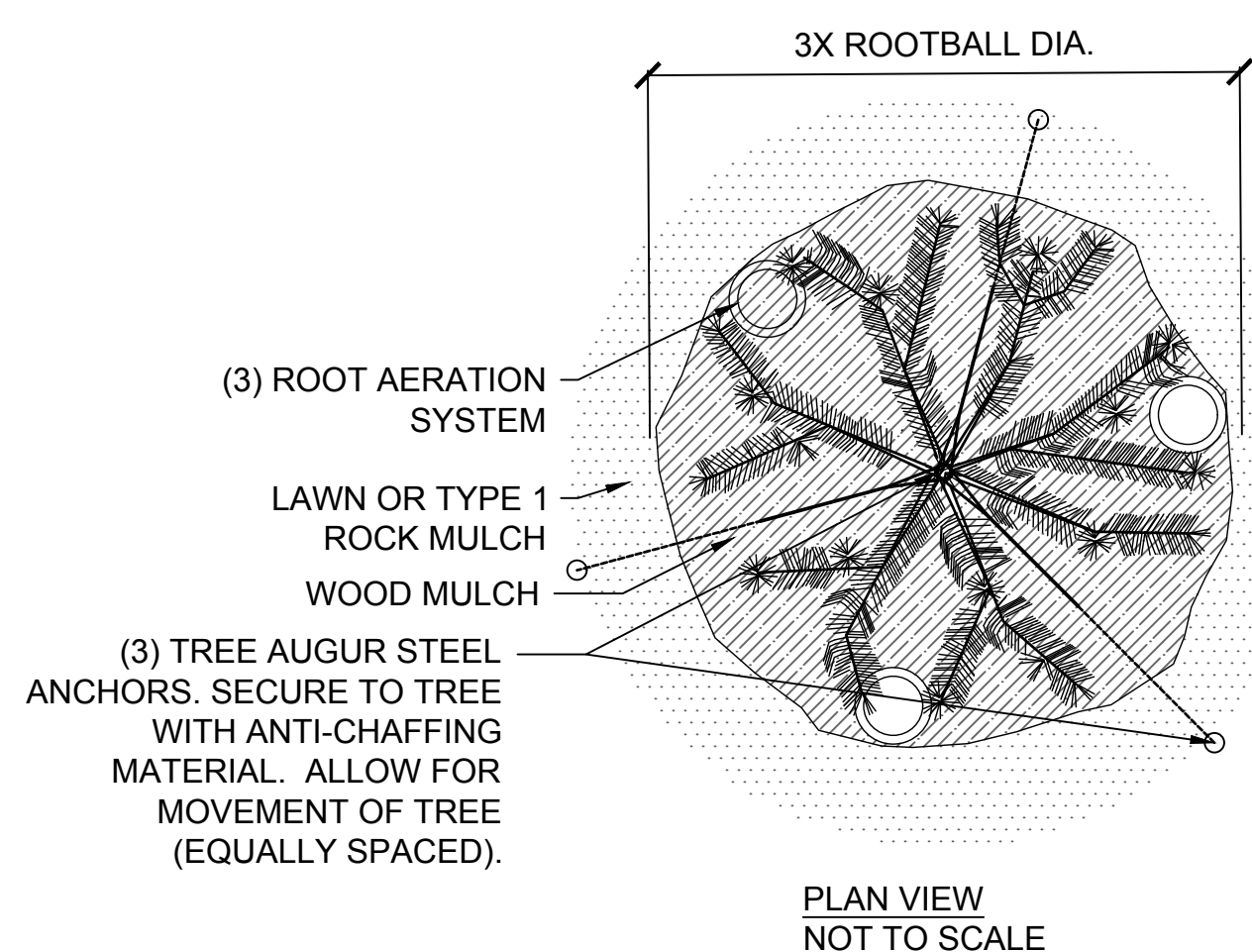
1 SHRUB BED SPACING
SCALE: N.T.S.



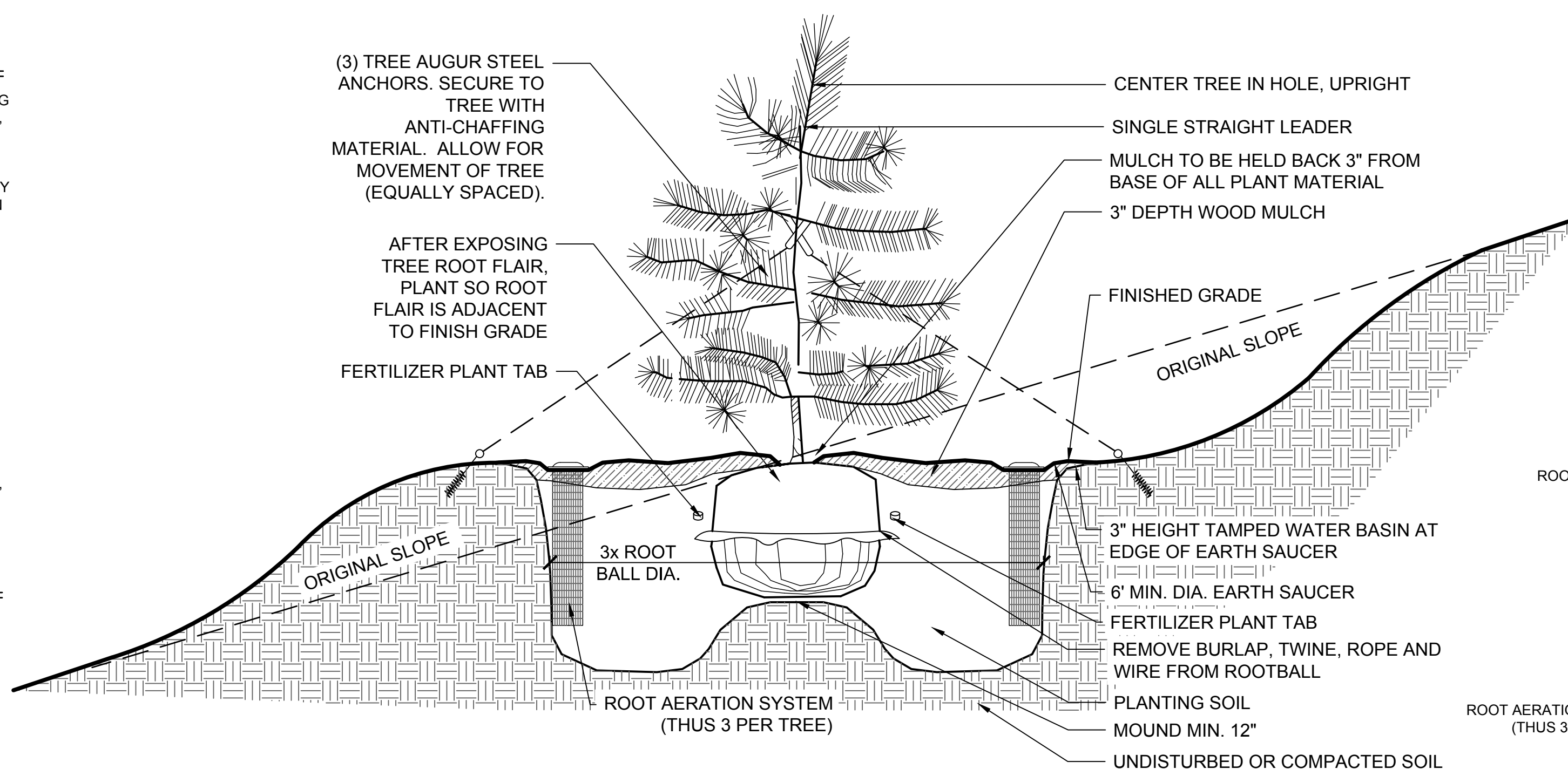
2 POLY LANDSCAPE EDGING DETAIL
SCALE: N.T.S.



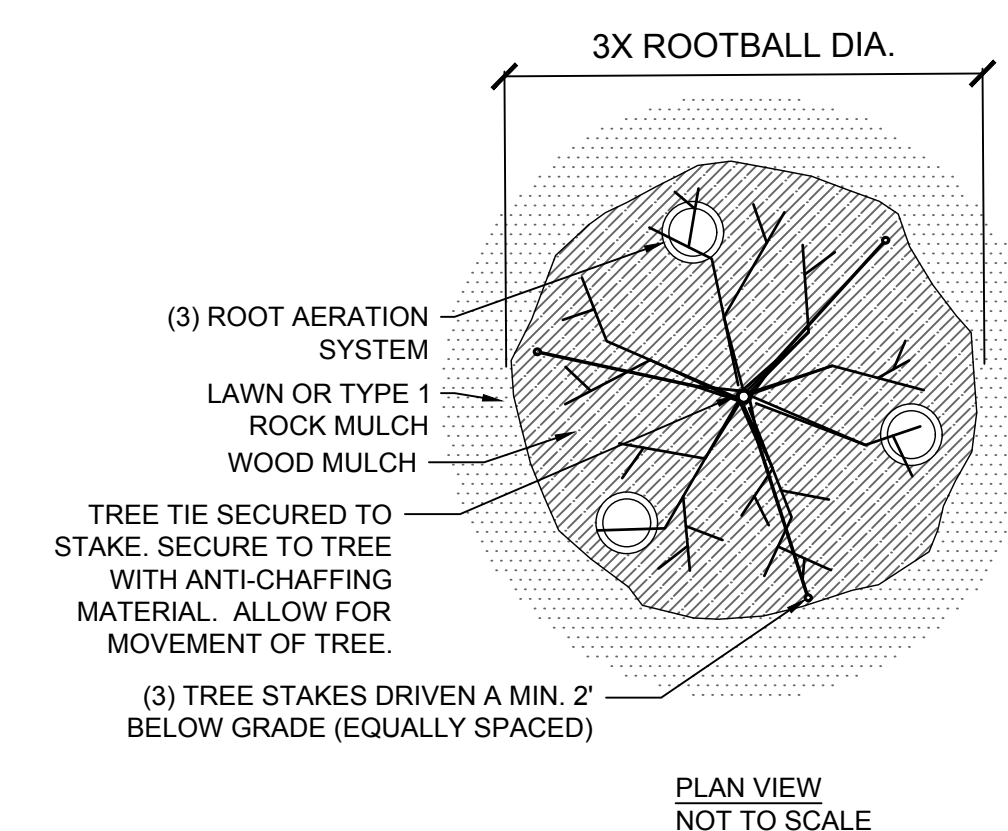
3 DECIDUOUS SHRUB PLANTING DETAIL
SCALE: N.T.S.



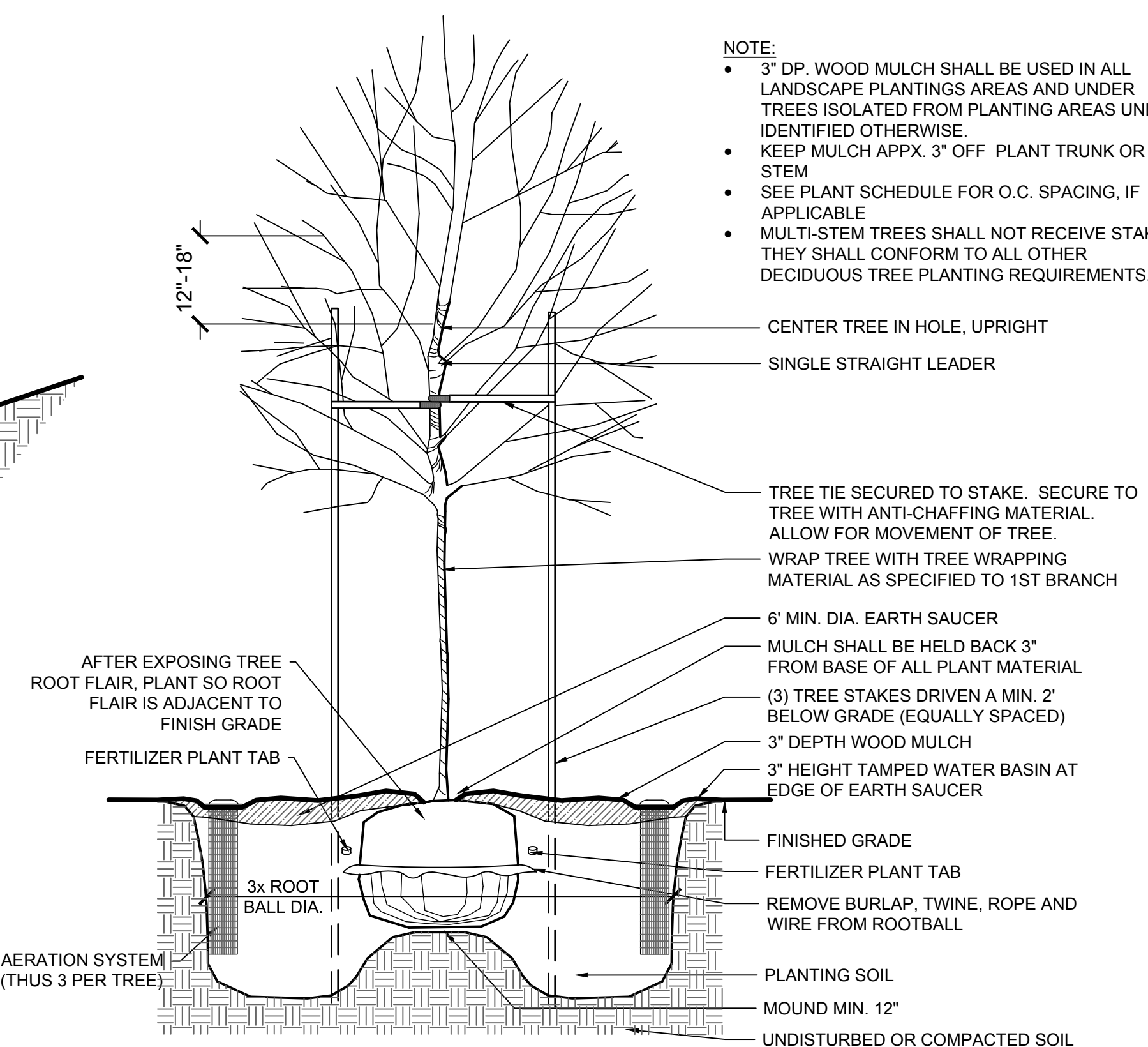
NOTE:
-3" DP. WOOD MULCH SHALL BE USED IN ALL LANDSCAPE PLANTINGS AREAS AND UNDER TREES ISOLATED FROM PLANTING AREAS UNLESS IDENTIFIED OTHERWISE.



4 EVERGREEN TREE PLANTING ON SLOPE DETAIL
SCALE: N.T.S.



NOTE:
• 3" DP. WOOD MULCH SHALL BE USED IN ALL LANDSCAPE PLANTINGS AREAS AND UNDER TREES ISOLATED FROM PLANTING AREAS UNLESS IDENTIFIED OTHERWISE.
• KEEP MULCH APPX. 3" OFF PLANT TRUNK OR STEM
• SEE PLANT SCHEDULE FOR O.C. SPACING, IF APPLICABLE
• MULTI-STEM TREES SHALL NOT RECEIVE STAKING. THEY SHALL CONFORM TO ALL OTHER DECIDUOUS TREE PLANTING REQUIREMENTS.



5 DECIDUOUS TREE PLANTING DETAIL
SCALE: N.T.S.



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PROJECT

MM CAPITAL SHOREWOOD, LLC

ADDITION/REMODELING

19765 MN - 7
SHOREWOOD, MINNESOTA

ISSUED SET JAN. 08, 2025

REVISIONS

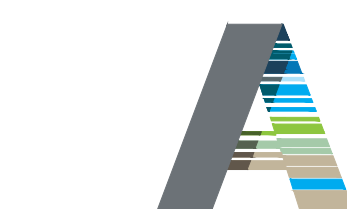
DATE	NO.	DESCRIPTION
1/8/25	1	FINAL WATERSHED

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

NOT FOR CONSTRUCTION

CURT H. CLAEYS, P.L.A.

45613	01/08/2025
REG. NO.	DATE



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LANDSCAPE NOTES & DETAILS

DRAWN BY: JS CHECKED BY: CC

L2