

Memorandum

To: Town of Bristol, WI
(Attn: Kory Anderson, P.E., Town Zoning Administrator) **Date:** February 23, 2026

From: Michael L. Calkins, P.E.

CC:

RE: Valley Pines Project - Stormwater Management & Erosion Control for Town SIP Submittal

On behalf of PAC Acquisitions, LLC., Snyder & Associates, Inc. is submitting this memorandum and stormwater management modeling results to address the stormwater management and erosion control requirements for the proposed Valley Pines Project at the northwest corner of the Prairie Pines Golf Club. The proposed project is located on Parcels 012/0911-302-8000-0 and 012/0911-302-8500-3 in the Town of Bristol, Dane County, Wisconsin. The project site is approximately 800 feet west of the intersection of Briar Lane and Happy Valley Road, residing on the south side of Happy Valley Road. The project site contains approximately 4.2 acres of land disturbance and is primarily undeveloped land.

The proposed project consists of subdividing the existing two parcels into six lots, five single-family lots with a total combined land area of approximately 4.78 acres, and one lot for the Prairie Pines Golf Club with an area of approximately 37.13 acres. The project will also include mass grading the five single-family lots and the construction of a paved, shared driveway, along with associated stormwater management facilities.

The stormwater management design routes the majority of stormwater runoff from the development to two proposed bioretention basins, one in the southeast corner of the development and one in the southwest corner of the development, where the runoff will be treated to achieve a minimum of 80 percent total suspended solids (TSS) reduction. The bioretention basins will also provide stormwater attenuation and infiltration to meet current WDNR and Dane County stormwater management requirements. Erosion control performance calculations and results (i.e., USLE calculations) will be submitted as part of the Town/Dane County stormwater management and erosion control permitting process.

The tables on the following pages summarize the stormwater management modeling results. A draft final plat survey map for the proposed land subdivision is attached, as well as pre-development and post-development drainage maps.

Table 1: Pre-Development Peak Flows

Storm Event (Yr.)	AP1 – Total Combined Discharge Peak Flow (cfs)
1	0.53
2	1.06
10	4.57
100	15.31
200	19.51

Table 2: Post-Development Peak Flows

Storm Event (Yr.)	AP1 – Total Combined Discharge Peak Flow (cfs)
1	0.49
2	0.66
10	2.96
100	14.15
200	18.30

Table 3: Post-Development Basin Elevations

Storm Event (Yr.)	1P (East Bio Basin) Peak Water Surface Elevation (ft.)	2P (West Bio Basin) Peak Water Surface Elevation (ft.)
1	947.95	951.70
2	948.15	952.00
10	948.77	952.59
100	949.64	953.00
200	949.92	953.04

Table 4: Total Suspended Solids Reduction Modeling Results

	Particulate Solids Yield (lbs.)	Percent Particulate Solids Reduction
Total of All Land Uses without Controls	1,010	
Outfall Total with Controls	138.0	86.34%
Annualized Total After Outfall Controls	138.4	

Table 5: Total Stay-On (Infiltration)

Development Condition	Average Annual Rainfall Total (in./yr.)	WinSLAMM Outfall Total Runoff Volume (cu. ft./yr.)	WinSLAMM Outfall Total Losses (Stay-On) (in./yr.)	Calculated Total Losses (Stay-On) (in./yr.)	Calculated Percent of Pre-Development Stay-On (Infiltration)
Pre-Development	28.81	35,260	27.09	27.08	
Post-Development	28.81	42,347	26.75	26.73	98.7%

Attachments:

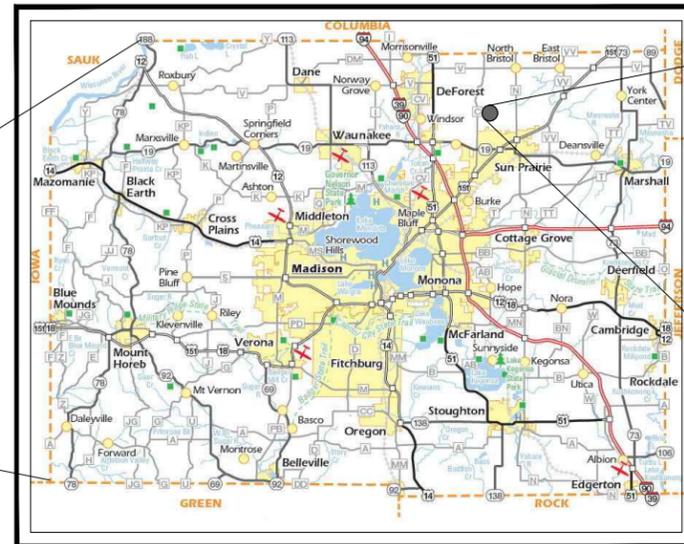
- 1.) Plan Set
- 2.) Draft Final Plat
- 3.) Pre-Development & Post-Development Drainage Maps

VALLEY PINES

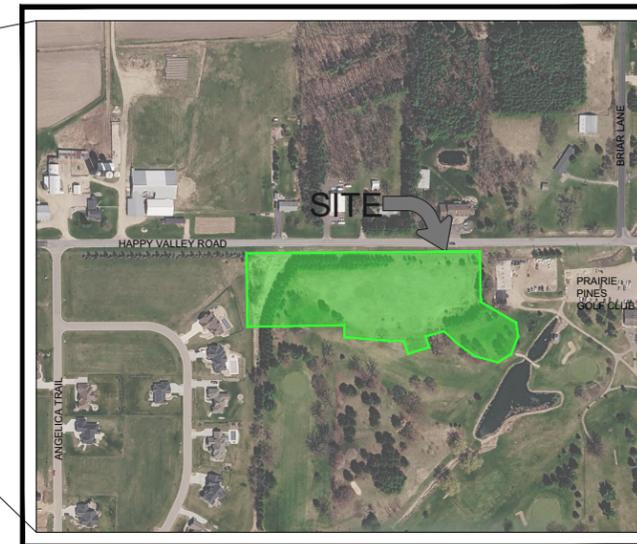
SECTION 30, TOWNSHIP 9N, RANGE 11E



REGIONAL MAP



DANE COUNTY



SITE LOCATION MAP

TOWN OF BRISTOL,
DANE COUNTY, WISCONSIN




 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
 WIS. STATUTE 182.0175 (1974)
 REQUIRES MIN. OF 3 WORK DAYS
 NOTICE BEFORE YOU EXCAVATE

CAUTION:

CERTAIN UNDERGROUND UTILITIES HAVE BEEN LOCATED ON THE PLANS. THESE LOCATIONS SHALL NOT BE TAKEN AS CONCLUSIVE. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THE DRAWING OR NOT, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. FOR EXACT LOCATION CONTACT DIGGERS HOTLINE 1-800-242-8511

Sheet List Table

Sheet Number	Sheet Title
C100	TITLE
C200	NOTES
C201	EROSION CONTROL NOTES
C202	EXISTING CONDITIONS PLAN
C300	SITE & UTILITY PLAN
C400	GRADING & EROSION CONTROL PLAN
C401	SOUTHWEST BASIN DETAILS
C402	SOUTHEAST BASIN DETAILS
C403	BASIN NOTES
C700	STORM DETAILS
C701	EROSION CONTROL DETAILS

MARK	REVISION	DATE	BY
ENGR	Checked By: CHKD	Scale: 1" = 40'	
TECH	Date: 02-23-2026	T-R-S: 9N-11E-30	
Project No: 126-0225.30			Sheet C100

VALLEY PINES
TOWN OF BRISTOL, DANE COUNTY, WI
SNYDER & ASSOCIATES, INC. |
 5010 VOGES ROAD
 MADISON, WISCONSIN 53718
 608-838-0444 | www.snyder-associates.com



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GENERAL CONDITIONS

1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE BIDDER WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES AND SHALL STATE SUCH QUANTITIES IN THEIR PROPOSAL. THEY SHALL BASE THEIR BID ON THEIR OWN ESTIMATE OF THE WORK REQUIRED AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL CONFIRM WITH OWNER IF A GEOTECHNICAL REPORT IS AVAILABLE. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, IF AVAILABLE.
6. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
7. THE CONTRACTOR SHALL CONDUCT THEIR WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
8. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF THEIR INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
9. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
10. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.

STORM SEWER & STORM WATER MANAGEMENT NOTES

- STORM SEWER AND STORMWATER MANAGEMENT SHALL BE AS FOLLOWS:
1. STORM SEWER PIPE BEDDING SHALL BE CLEAR STONE.
 2. MINIMUM COVER FOR ALL STORM SEWER SHALL BE 2'.
 3. EXCAVATED MATERIAL FROM THE TRENCH NOT SUITABLE FOR BACKFILL AS DEEMED BY THE PUBLIC SERVICES DIRECTOR SHALL BE HAULED OFF-SITE AND SELECT TRENCH BACKFILL WILL BE REQUIRED.
 4. EXTREME CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. MECHANICALLY COMPACTED GRANULAR BACKFILL IS REQUIRED UNDER AND WITHIN 5 FEET OF ALL PAVEMENT INCLUDING SIDEWALKS AND FUTURE PARKING AREA AS SPECIFIED ON PLANS. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED. THE COST OF THIS GRANULAR MATERIAL AND ITS COMPACTION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY.
 5. PRIOR TO FINAL PAVING OPERATIONS, THE UTILITY CONTRACTOR SHALL ADJUST ALL MANHOLE AND INLET RIMS AND VALVE BOXES TO FINISHED GRADE.
 6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH A SET OF MARKED-UP PRINTS SHOWING ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE OWNER.
 7. STORM SEWER WITHIN STREET RIGHT-OF-WAYS SHALL BE REINFORCED CONCRETE PIPE.
 8. EXCAVATED MATERIAL FROM THE TRENCH NOT SUITABLE FOR BACKFILL AS DEEMED BY THE ENGINEER SHALL BE REMOVED AND REPLACED WITH SELECT TRENCH BACKFILL.
 9. MANHOLES 3' DEEP AND GREATER SHALL BE CONSTRUCTED WITH STEPS.
 10. INLETS AT LOW POINTS SHALL HAVE TYPE NEENAH TYPE R GRATES. INLETS ON GRADE SHALL BE DIRECTIONAL TYPE L. INLETS SHALL ALL BE STAMPED "DRAINS TO RIVER".
 11. ALL BIORETENTION BASINS SHALL INCLUDE ENGINEERED SOILS PER WDNR TECHNICAL STANDARD 1004.
 12. ALL STORM WATER MANAGEMENT FACILITIES SHALL BE SEEDED WITH A NATIVE SEED MIXTURE WITHIN THE LIMITS OF THE OUTLOT OR EASEMENT. THE NATIVE SEED MIXTURE SHALL BE APPROVED BY THE ENGINEER.
 13. ALL STORM WATER FACILITIES SHALL CONFORM TO WisDNR TECHNICAL STANDARDS FOR PRE AND POST CONSTRUCTION STORM WATER MANAGEMENT.
 14. THE LAST TWO PIPES SHALL BE STRAPPED TOGETHER AT END SECTIONS ON ALL PIPES 18" AND GREATER.
 15. TRASH GRATES SHALL BE PROVIDED ON ALL END SECTIONS ON ENCLOSED STORM SEWER NETWORKS.
 16. EROSION MAT IS REQUIRED FOR ALL RESTORATION ON SLOPES AT OR GREATER THAN 5H:1V, AND IN AREAS THAT CHANNEL WATER.
 17. BIODEGRADABLE EROSION MAT AND BIODEGRADABLE STAPLES ARE REQUIRED ON ALL SLOPES LESS THAN 3:1 OUTSIDE OF DRAINAGE CHANNELS WHERE EROSION MAT IS REQUIRED. EROSION MAT SHALL BE PROVIDED IN ALL STREET TERRACES OR DITCHES.
 18. SILT FENCE AND INLET PROTECTION REMOVAL IS REQUIRED AFTER VEGETATION HAS BEEN ESTABLISHED.
 19. STORM SEWER SHALL BE HDPE UNLESS OTHERWISE SPECIFIED ON PLANS.
 20. ALL STORM SEWER CONSTRUCTION SHALL MEET THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
 21. TRACER WIRE SHALL BE INSTALLED WITH ALL NON-METALLIC BURIED UTILITIES IN ACCORDANCE TO THE STANDARD DETAIL DRAWINGS.
 22. TRACER WIRE BOXES SHALL BE PROVIDED. "STORM SEWER" SHALL BE STAMPED IN THE LID OF THE ACCESS BOX.
 23. INSULATION SHALL BE PROVIDED AT ALL STORMS SEWER CROSSINGS OF MAINS AND LATERALS.

ADDITIONAL UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
3. PRIOR TO FINAL PAVING OPERATIONS, THE UTILITY CONTRACTOR SHALL ADJUST ALL MANHOLE AND INLET RIMS AND VALVE BOXES TO FINISHED GRADE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH A SET OF MARKED-UP PRINTS SHOWING ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE OWNER.
5. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO WISCONSIN ADMINISTRATIVE CODE. SECTION SPS 382-384, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
6. PROPOSED SANITARY SEWER, WATER MAIN, AND INTERNALLY CONNECTED STORM SEWER SHOWN ON THIS PLAN SHALL TERMINATE AT POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL. STORM SEWER CONNECTING TO EXTERIOR DOWN SPOUTS SHALL BE PER DETAILS ON THE ARCHITECTURAL PLANS. THE EXACT LOCATION OF ALL DOWN SPOUTS SHALL BE PER THE ARCHITECTURAL PLANS.
7. EXTREME CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. MECHANICALLY COMPACTED GRANULAR BACKFILL IS REQUIRED UNDER AND WITHIN 5 FEET OF ALL PAVEMENT INCLUDING SIDEWALKS. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED. THE COST OF THIS GRANULAR MATERIAL AND ITS COMPACTION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY.
8. TRACER WIRE SHALL BE INSTALLED ON ALL BURIED NON-METALLIC SANITARY SEWERS, PRIVATE SANITARY INTERCEPTOR MAIN SEWERS, STORM BUILDING SEWERS, AND PRIVATE STORM INTERCEPTOR MAIN SEWERS THAT DISCHARGE TO MUNICIPAL MAINS. TRACER WIRE SHALL BE A MINIMUM OF 12-GAUGE, INSULATED, SINGLE-CONDUCTOR COPPER WIRE OR EQUIVALENT. TRACER WIRE COLOR SHALL BE BLUE FOR POTABLE WATER, GREEN FOR SANITARY SEWER, AND BROWN FOR STORM SEWER.

MARK	REVISION	DATE	BY
Engineer: ENGR	Checked By: CHKD	Scale: 1" =	
Technician: TECH	Date: 02-23-2026	T-R-S: 9N-11E-30	
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CONSTRUCTION SEQUENCE

- INSTALL AND MAINTAIN THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT'S AS DESCRIBED IN THE DANE COUNTY EROSION CONTROL AND STORMWATER MANAGEMENT MANUAL. ADDITIONALLY INSTALL CONSTRUCTION EQUIPMENT PARKING AREAS. STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE. THE TEMPORARY ACCESS POINT SHALL BE PLACED IN THE LOCATION SHOWN ON THE GRADING AND EROSION CONTROL PLAN. THE ENTRANCE/EXITS WILL BE INSPECTED DAILY. IF THE AGGREGATE WITHIN THE TEMPORARY ACCESS PADS BECOMES COVERED WITH SOIL OR IF SIGNIFICANT QUANTITIES OF SOIL ARE TRACKED ONTO THE EXISTING ROADWAY THEN ADDITIONAL AGGREGATE WILL BE INSTALLED TO ALLOW THE ENTRANCE/EXITS TO FUNCTION PROPERLY.
- INSTALL EROSION AND SEDIMENT CONTROL BARRIERS (SILT FENCE) IMMEDIATELY DOWNSLOPE OF AREAS TO BE DISTURBED DURING CONSTRUCTION AS SHOWN ON THE APPROVED GRADING PLAN. THE BARRIERS MUST BE INSTALLED PARALLEL TO THE SITE CONTOURS TO THE EXTENT PRACTICABLE WITH THE ENDS EXTENDED UPSLOPE ONE TO TWO FEET TO PREVENT FLANKING OF THE RUNOFF. AT NO TIME FROM THE START OF ROUGH GRADING UNTIL SITE STABILIZATION SHALL AN UNBROKEN SLOPE EXIST BETWEEN DISTURBED AREAS AND THE RECEIVING WATERS. THE DANE COUNTY EROSION CONTROL AND STORMWATER MANAGEMENT MANUAL WILL BE REFERENCED FOR THE PROPER INSTALLATION AND MAINTENANCE OF SILT FENCE AND ALL OTHER EROSION CONTROL MEASURES ON THE SITE.
- STRIP TOPSOIL FROM THE AREAS OF THE SITE THAT WILL BE GRADED WITHIN 48 HOURS. ANY AREAS THAT WILL NOT BE IMMEDIATELY GRADED MUST NOT BE STRIPPED OF TOPSOIL UNTIL THE PRECEDING AREAS ARE TOPSOILED, SEEDED AND MULCHED. PLACE SOIL STOCKPILES AT LEAST 25 FEET AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY, OR DITCH. ALL TOPSOIL PILES WILL HAVE SILT FENCE PLACED ON THEIR DOWNSLOPE SIDES. TOPSOIL PILES WILL BE SEEDED WITH ANNUAL RYE IF THEY ARE IN PLACE FOR MORE THAN 7 DAYS. ANY AREAS LEFT INACTIVE FOR MORE THAN 7 DAYS WILL BE STABILIZED IMMEDIATELY WITH SEED AND MULCH.
- GRADING WILL BE PHASED TO THE EXTENT PRACTICABLE TO LIMIT THE AMOUNT OF THE EXPOSED SOIL AT ANY ONE TIME AND TO PROVIDE A BUFFER BETWEEN THE GRADED AREAS AND THE RECEIVING WATERS. THE INTENT OF THESE GRADING RESTRICTIONS IS TO PROVIDE AN UNDISTURBED BUFFER AREA ALLOWING ADDITIONAL EROSION AND SEDIMENTATION PROTECTION DURING CONSTRUCTION.
- TOPSOIL, SEED AND MULCH ALL AREAS WHICH ARE AT FINAL GRADE AND WHICH WILL NOT BE DISTURBED DURING SUBSEQUENT PHASES OF CONSTRUCTION. ANY AREAS LEFT INACTIVE FOR MORE THAN 7 DAYS MUST BE STABILIZED IMMEDIATELY.
- INSTALL ANY UTILITIES.
- COMPLETE FINAL GRADING FOR SHARED DRIVEWAY AND STABILIZE WITH GRAVEL.
- COMPLETE FINAL GRADE OF THE SITE.
- UTILITY TRENCHES SHALL BE FILLED WITH SUITABLE BACKFILL MATERIAL AND COMPACTED AS NEEDED. TOPSOIL SHALL BE REPLACED, FERTILIZED, SEEDED AND PROTECTED AS CALLED FOR BELOW IN ITEMS 11 AND 12. UTILITY CONSTRUCTION SHALL BE COORDINATED WITH OTHER GRADING ACTIVITIES SO THAT RESTORATION CAN BE COMPLETED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- WITHIN 7 DAYS OF THE COMPLETION OF FINAL GRADING, A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE REPLACED ON ALL DISTURBED SURFACES THAT ARE TO BE REVEGETATED. PRIOR TO PLACING TOPSOIL AND INSTALLATION OF PLANT MATERIALS OR SEEDING, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENEED TO A DEPTH OF 1"-2" BELOW THE HARD PAN LAYER OR COMPACTION ZONE. TOPSOIL SHALL BE UNIFORMLY PLACED, GRADED SMOOTH AND SCARIFIED FOR SEEDING.

- FERTILIZE ALL AREAS TO BE SEEDED OR SODDED WITH 500LBS. PER ACRE OF 16-8-8 (MINIMUM). INCORPORATE THE FERTILIZER INTO THE SOIL BY SCARIFYING AS INDICATED. SEED ALL DISTURBED AREAS WITH THE FOLLOWING SEEDING MIXTURE:
 30.50 LBS/ACRE OF KENTUCKY BLUEGRASS
 17.50 LBS/ACRE OF RED FESCUE
 17.50 LBS/ACRE OF HARD FESCUE
 22.00 LBS/ACRE OF PERENNIAL RYE GRASS
 THE OWNER RESERVES THE RIGHT TO REVISE THE SEEDING MIXTURE SUBJECT TO APPROVAL BY THE LOCAL MUNICIPALITY.

 SOD MAY BE SUBSTITUTED FOR SEEDING ON ALL AREAS TO BE SEEDED AND IS RECOMMENDED FOR ALL AREAS WITH SLOPES OF 5:1 OR STEEPER.
 MULCH ALL SEEDED AREAS WITH 1.5 TONS PER ACRE OF CLEAN STRAW. STRAW SHALL BE ANCHORED IN PLACE WITH SUITABLE EQUIPMENT OR STAKING WITH TWINE.

 FOR AREAS ON WHICH GRADING IS COMPLETED AFTER SEPTEMBER 30.

 TEMPORARY SEED SHALL INCLUDE A SOIL STABILIZING POLYMER AND COVER CROP OF WINTER RYE (AT A RATE OF 75#/ACRE) AND MUST BE APPLIED AS SOON AS THESE AREAS REACH THEIR FINAL GRADE. ADDITIONAL EROSION CONTROL BARRIERS MAY BE NEEDED DOWNSLOPE OF THESE AREAS UNTIL FINAL SEEDING OR SODDING IS COMPLETED IN SPRING (BY JUNE 1). ANY AREAS WITH SLOPES GREATER THAN 6:1 MUST BE SEEDED AND MULCHED BUT NOT TOPSOILED. AREAS WITH SLOPED LESS THAN 6:1 MUST BE TOPSOILED, SEEDED AND MULCHED. ALL AREAS MUST BE TOPSOILED, SEEDED AND MULCHED AS DESCRIBED ABOVE IN THE FOLLOWING SPRING.
- WHENEVER POSSIBLE, PRESERVE EXISTING TREES, SHRUBS, AND OTHER VEGETATION. TO PREVENT ROOT DAMAGE, DO NOT GRADE, PLACE SOIL PILES, OR PARK VEHICLES NEAR TREES MARKED FOR PRESERVATION.
- SILT FENCE MAINTENANCE:** EROSION CONTROL BARRIERS (SILT FENCE) MUST BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OF 0.5-INCHES OR MORE, AND DAILY DURING PERIODS OF PROLONGED RAINFALL. REPAIRS OR REPLACEMENT SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS ON THE UPSLOPE SIDE ON THE SILT FENCES SHALL BE REMOVED WHEN THE DEPOSITS REACH HALF THE HEIGHT OF THE SILT FENCE.
- GRAVEL TRACKING PAD MAINTENANCE:** ADDITIONAL STONE IS REQUIRED IF EXISTING STONE BECOMES BURIED OR IF SEDIMENT IS NOT BEING REMOVED EFFECTIVELY FROM TIRES. SEDIMENT THAT IS TRACKED ONTO THE ROADWAY MUST BE REMOVED IMMEDIATELY. TRACKING PADS MAY REQUIRE PERIODIC CLEANING TO MAINTAIN THE EFFECTIVENESS OF THE PRACTICE, WHICH MAY INCLUDE THE REMOVAL AND RE-INSTALLATION OF THE STONE.

EROSION CONTROL NOTES

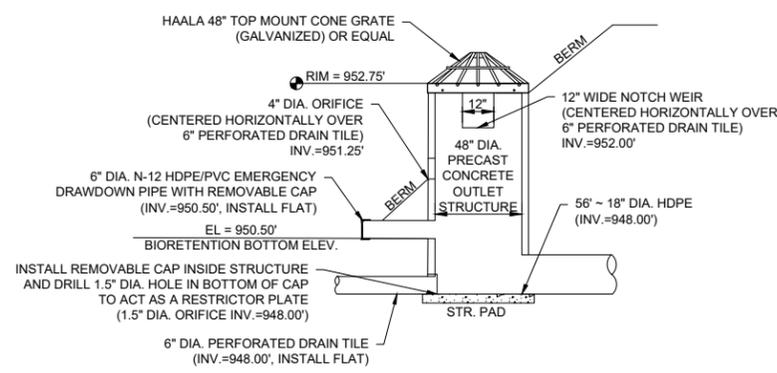
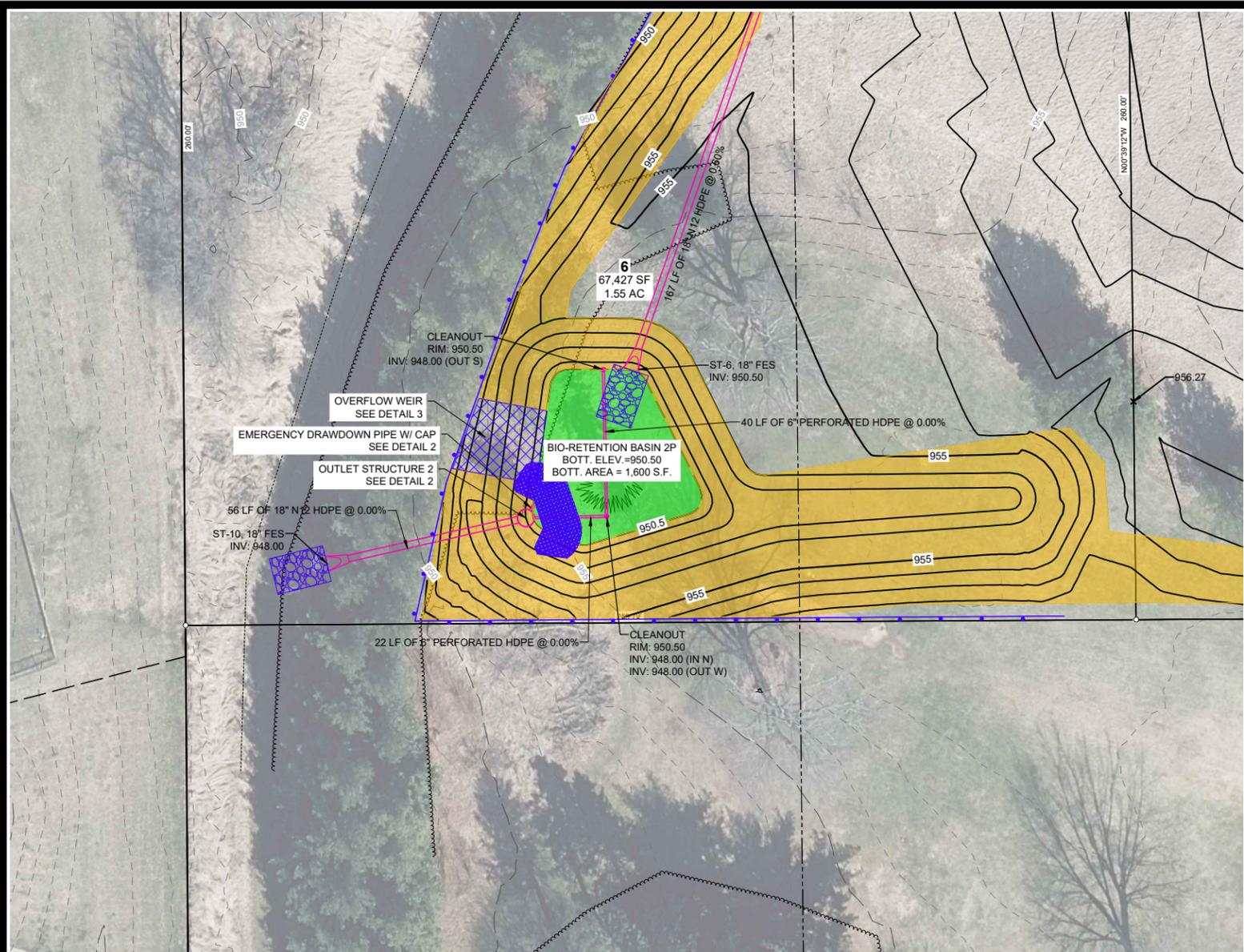
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WISDNR WPDES DISCHARGE PERMIT (IF APPLICABLE), COUNTY AND LOCAL EROSION CONTROL PERMIT. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
- ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WisDNR) TECHNICAL STANDARD, FOUND AT: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE.
- ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH ALL APPLICABLE PERMITS ISSUED FOR THE PROJECT.
- ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. REPAIRS SHALL BE MADE IMMEDIATELY TO EROSION CONTROL PRACTICES AS NECESSARY.
- TEMPORARY STOCKPILES SHALL BE STABILIZED IF NOT REMOVED IN 10 DAYS. PERIMETER CONTROL ON THE DOWNHILL SIDE SHALL BE IN PLACE AT ALL TIMES (SILT FENCE OR APPROVED EQUAL).
- TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WisDOT STANDARD SPECIFICATIONS USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 1.
- DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WisDNR TECHNICAL STANDARD 1050.
- SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS TO MAINTAIN A THREE FOOT DEPTH OF TREATMENT, MEASURED BELOW THE TOP OF BERM ELEVATION. SEDIMENT WILL BE REMOVED FROM THE DIVERSION DITCHES WHEN IT REACHES HALF THE HEIGHT OF THE DITCH. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WisDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY EROSION CONTROL AND/OR SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WisDNR TECHNICAL STANDARD 1063.
- TRACKED MATERIAL TO ADJACENT STREETS SHALL BE COLLECTED AT THE END OF EACH WORKING DAY OR AS REQUIRED BY THE LOCAL MUNICIPALITY.
- DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WisDNR TECHNICAL STANDARD 106B.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EROSION CONTROL FACILITIES AND MEASURES NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT THE PROJECT SITE. THESE FACILITIES AND MEASURES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS AND THEIR ABSENCE ON THE DRAWINGS DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING THEM. ANY MEASURES AND FACILITIES SHOWN ON THE DRAWINGS ARE THE MINIMUM ACTIONS REQUIRED.
- ERODED MATERIAL THAT HAS LEFT THE CONSTRUCTION SITE SHALL BE COLLECTED AND RETURNED TO THE SITE BY THE CONTRACTOR.
- AFTER FINAL VEGETATION IS ESTABLISHED, REMOVE ALL EROSION CONTROL FACILITIES. RESTORE AREAS DISTURBED BY THE REMOVALS.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE. CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WisDNR TECHNICAL STANDARDS.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- FOR NON-CANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES 5:1 BUT LESS THAN 2.5:1, USE CLASS I URBAN TYPE B EROSION CONTROL MATTING. FOR SLOPES GREATER THAN 2.5:1 USE CLASS I TYPE B. WHEN SHOWN OR CALLED OUT ON PLANS, CONTRACTOR SHALL USE THE EROSION CONTROL MATTING SHOWN ON PLANS. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WisDOT'S FACILITIES DEVELOPMENT MANUAL AND INSTALL AND MAINTAIN PER WisDNR TECHNICAL STANDARDS.
- FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS I TYPE B EROSION CONTROL MATTING. WHEN SHOWN OR CALLED OUT ON PLANS, CONTRACTOR SHALL USE THE EROSION CONTROL MATTING SHOWN ON PLANS. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WisDOT'S FACILITIES DEVELOPMENT MANUAL; INSTALL AND MAINTAIN PER WisDNR TECHNICAL STANDARDS.
- ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE COVERED WITH A BIO-DEGRADABLE EROSION MAT INCLUDING BIO-DEGRADABLE STAPLES.
- ALL BIO-DEGRADABLE EROSION MAT SHALL BE CURLEX NET FREE OR APPROVED EQUAL.
- WATERING OF NEW SEEDING SHALL BE OF A DURATION AND FREQUENCY ADEQUATE TO ENSURE PROPER ESTABLISHMENT OF NEW SEEDING.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.

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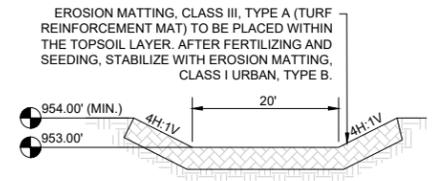
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Engineer: ENGR	Checked By: CHKD	Scale: 1" =	
Technician: TECH	Date: 02-23-2026	T-R-S: 9N-11E-30	
Project No: 126-0225.30			Sheet C201

VALLEY PINES
EROSION CONTROL NOTES
TOWN OF BRISTOL, DANE COUNTY, WI
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 MADISON, WISCONSIN 53718
 608-838-0444 | www.snyder-associates.com

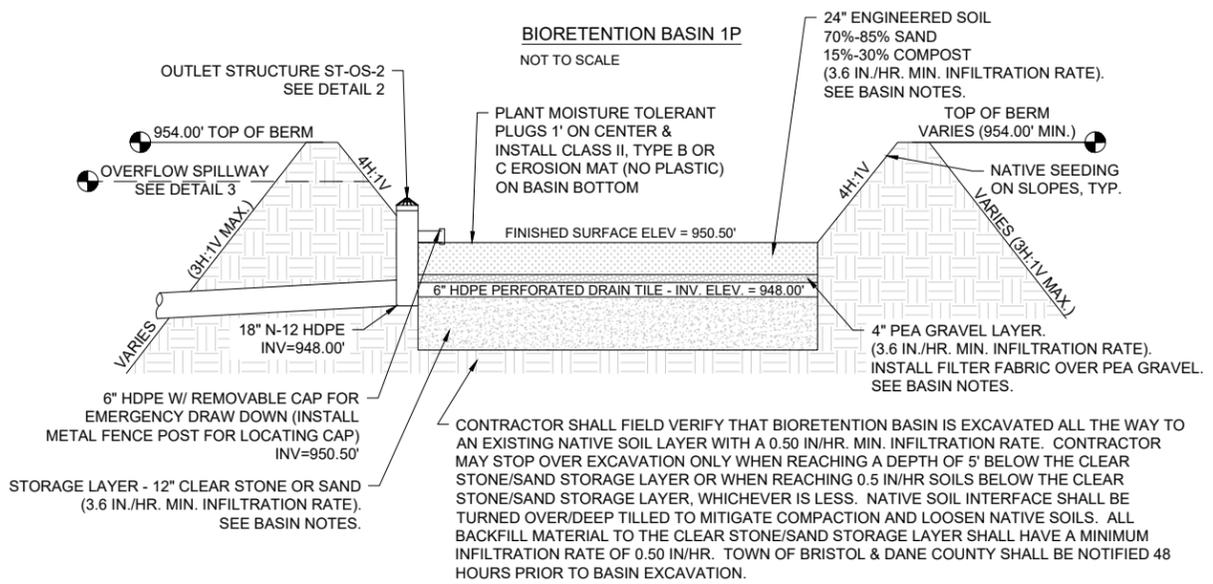




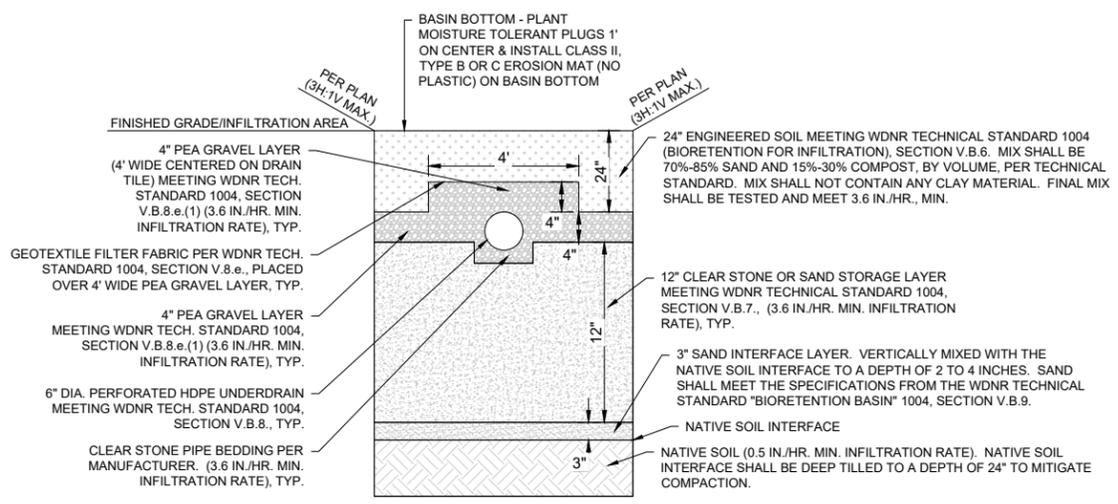
2 OUTLET STRUCTURE #1 (ST-OS-1) DETAIL
NO SCALE



3 BROAD-CRESTED OVERFLOW WEIR DETAIL
NO SCALE



1 TYPICAL BASIN SECTION DETAIL
NO SCALE



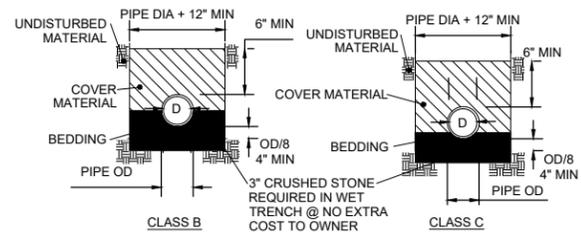
4 BIORETENTION BASIN BOTTOM SECTION DETAIL
NO SCALE

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			11-20-20	
			02-23-2026	

Project No: 126-0225-30
Sheet C401

VALLEY PINES
SOUTHWEST BASIN DETAILS
TOWN OF BRISTOL, DANE COUNTY, WI
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UNDISTURBED MATERIAL
PIPE DIA + 12" MIN
6" MIN
UNDISTURBED MATERIAL
PIPE DIA + 12" MIN
6" MIN
COVER MATERIAL
COVER MATERIAL
BEDDING
BEDDING
PIPE OD
PIPE OD
OD/8
4" MIN
3" CRUSHED STONE REQUIRED IN WET TRENCH @ NO EXTRA COST TO OWNER
CLASS B
CLASS C

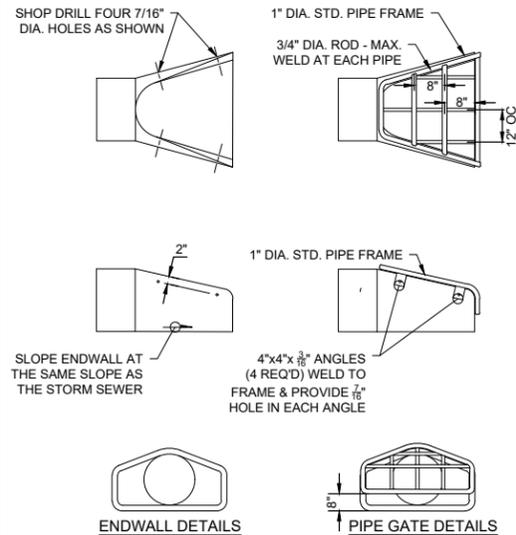
CLASS B: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5

CLASS C: EXCAVATED COARSE-GRAINED SOILS, TYPES GW, GP, SW, SP GM, GC, SM, AND SC; CLASS B BEDDING; OR PIT RUN SAND.

INSTALLATION:
PLACE AND COMPACT BEDDING AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.

1 CLASS B AND C PIPE EMBEDMENT DETAILS
SCALE: 1" = 1'



NOTE:

- THE CONTRACTOR SHALL BOLT THE PIPE GATE TO THE CONCRETE ENDWALL WITH FOUR 3/8"x6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.

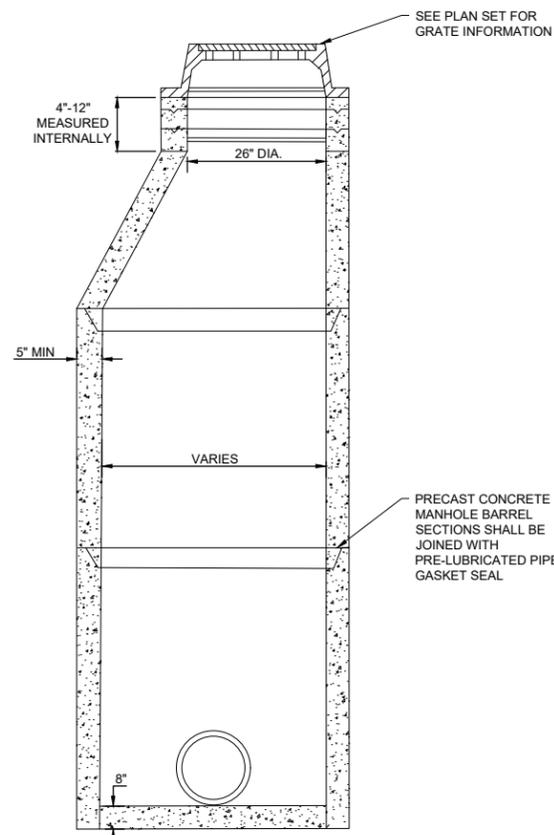
PAINTING SPECIFICATION:

- THE PIPE GATE SHALL RECEIVE THE FOLLOWING PREPARATION & PAINTING. THE FIRST COAT SHALL BE RUS-OLEUM X-60 RED BARE METAL PRIMER OR APPROVED EQUAL. THE SECOND COAT SHALL BE RUS-OLEUM 960 ZINC CHROMATE PRIMER OR APPROVED EQUAL. THE THIRD COAT SHALL BE RUS-OLEUM 1282 HIGH GLOSS METAL FINISH OR APPROVED EQUAL.

PREPARATION STEPS:

- BARE METAL SURFACES - TREAT WITH THE THREE-COAT PAINTING SYSTEM LISTED AFTER A THOROUGH SCRAPING, WIRE BRUSHING & CLEANING.
- EACH COAT OF PAINT SHALL BE APPLIED OVER THE ENTIRE GATE SURFACE.
- ALLOW 24-48 HOURS DRYING TIME AT 60° OR ABOVE BETWEEN COATS.

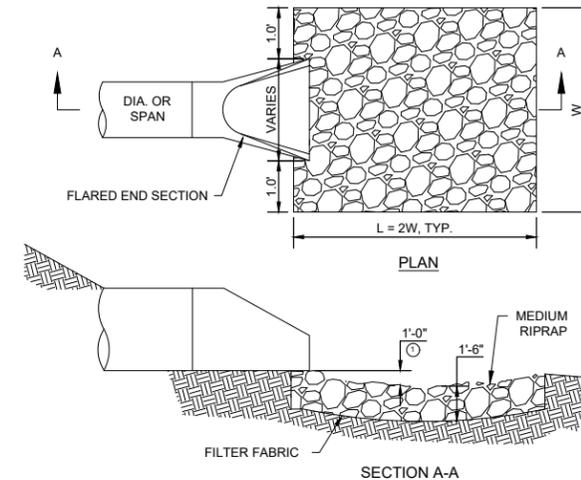
3 STANDARD ENDWALL DETAILS
SCALE: N.T.S.



NOTES:

- FOR STRUCTURES LESS THAN 5.0' DEEP A PRECAST REINFORCED CONCRETE FLATTOP IS REQUIRED.
- WALL THICKNESS SHALL BE 5" FOR 48" MANHOLE AND 6" FOR 60" MANHOLE.
- THE USE OF WOOD WEDGES OR SHIMS FOR FRAME OR RING ADJUSTMENT IS NOT ALLOWED.
- ADJUSTMENT RINGS SHALL BE POLYETHENE PLASTIC UNLESS OTHERWISE APPROVED.
- MAXIMUM TOTAL CHIMNEY HEIGHT, EXCLUDING MANHOLE FRAME, SHALL NOT EXCEED 16 INCHES, WITH A MINIMUM OF 1 - 2 INCH PRECAST RING.
- THE ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE WALL SHALL BE FILLED WITH CONCRETE TO THE HEIGHT OF THE BENCH.
- MANHOLES 3' DEEP AND GREATER SHALL BE CONSTRUCTED WITH STEPS.

4 STORM SEWER MANHOLE DETAIL
SCALE: N.T.S.

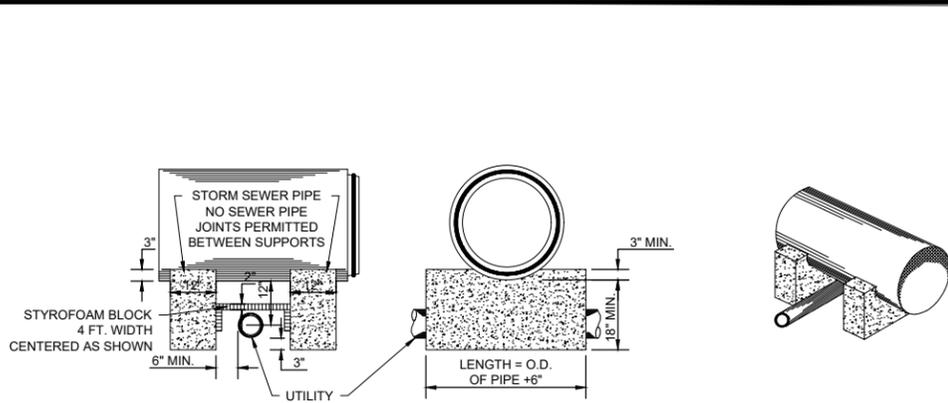


NOTES:

- GEOTEXTILE FILTER FABRIC SHALL BE TYPE "HR" UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 401.4.1.

○ FOR PIPES GREATER THAN OR EQUAL TO 30" USE 1.5"

6 ENDWALL RIP-RAP DETAIL
SCALE: N.T.S.

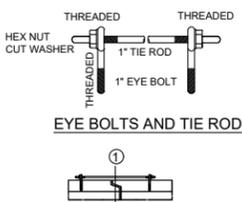


NOTE:

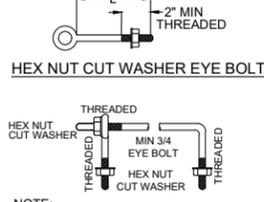
- EACH PAIR OF SUPPORTS IN ANY SIZE IS ONE PAY ITEM.

2 CONCRETE PIPE SUPPORT
SCALE: N.T.S.

ALTERNATE 1
EYE BOLT AND TIE ROD ASSEMBLY
(JOINT TIES FOR 72" DIA.
AND OVER CONCRETE PIPE)

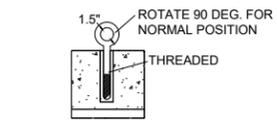


ALTERNATE 2
EYE BOLT AND TIE ROD ASSEMBLY
(JOINT TIES FOR 18" TO 66"
DIA. CONCRETE PIPE)



NOTE:

- TWO EYE BOLTS MAY BE USED WITH A 30° LONG THREADED ROD IN LIEU OF THE 90° DEG BENT TIE ROD EYE BOLT AND TIE ROD



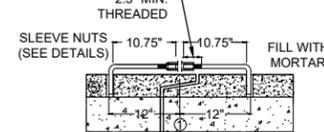
CAST-IN-PLACE THREADED INSERT
LONGITUDINAL SECTIONS

5 CONCRETE PIPE JOINT TIES
SCALE: N.T.S.

PIPE SIZE	TONGUE AND GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

EYE BOLT DIMENSION TABLE

ALTERNATE 3
ADJUSTABLE TIE ROD
(JOINT TIES FOR 12" TO
108" DIA. CONCRETE PIPE)



LONGITUDINAL SECTION

- > OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINT
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS
- HOLES SHALL BE CAST-IN-PLACE OR DRILLED, 12" FROM > OF TONGUE AND GROOVE
- BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2"
- ROD DIAMETER = 1 INCH

PIPE DIAMETER	TIE ROD DIAMETER	D	L1	H	R
12" TO 30"	1/2"	1/2"	5"	1/2"	1 3/4"
66" TO 84"	3/4"	3/4"	5"	1/2"	5"
90" TO 104"	1"	1"	7"	1/2"	7 1/2"

ADJUSTABLE TIE ROD TABLE



RIGHT AND LEFT
THREADS SLEEVE NUT

GENERAL NOTES:

- CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AND PER STANDARD SPEC. 502.7 (D)
- THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2, OR 3 FOR DRAINAGE STRUCTURES. UNLESS OTHERWISE STATED IN THE CONTRACT, THE MATERIALS, FABRICATION AND WORK NECESSARY TO THE CULVERT PIPE AS SHOWN ON THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE CULVERT PIPE.

PLACEMENT OF (2)
CAST-IN-PLACE
INSERTS OR HOLES
DURING FABRICATION
FOR PIPE SECTIONS
REQUIRING TIE RODS



TRANSVERSE SECTION

DETAILED DRAWINGS FOR
PROPOSED ALTERNATE
DESIGNS FOR JOINT TIES
SHALL BE SUBMITTED TO
THE ENGINEER FOR
APPROVAL.

MARK	REVISION	DATE	BY
ENGR	Checked By: CHKD	Scale: 1" =	
TECH	Date: 02-23-2026	T-R-S:	

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VALLEY PINES
STORM DETAILS
SNYDER & ASSOCIATES, INC. I



Project No: 126.0225.30

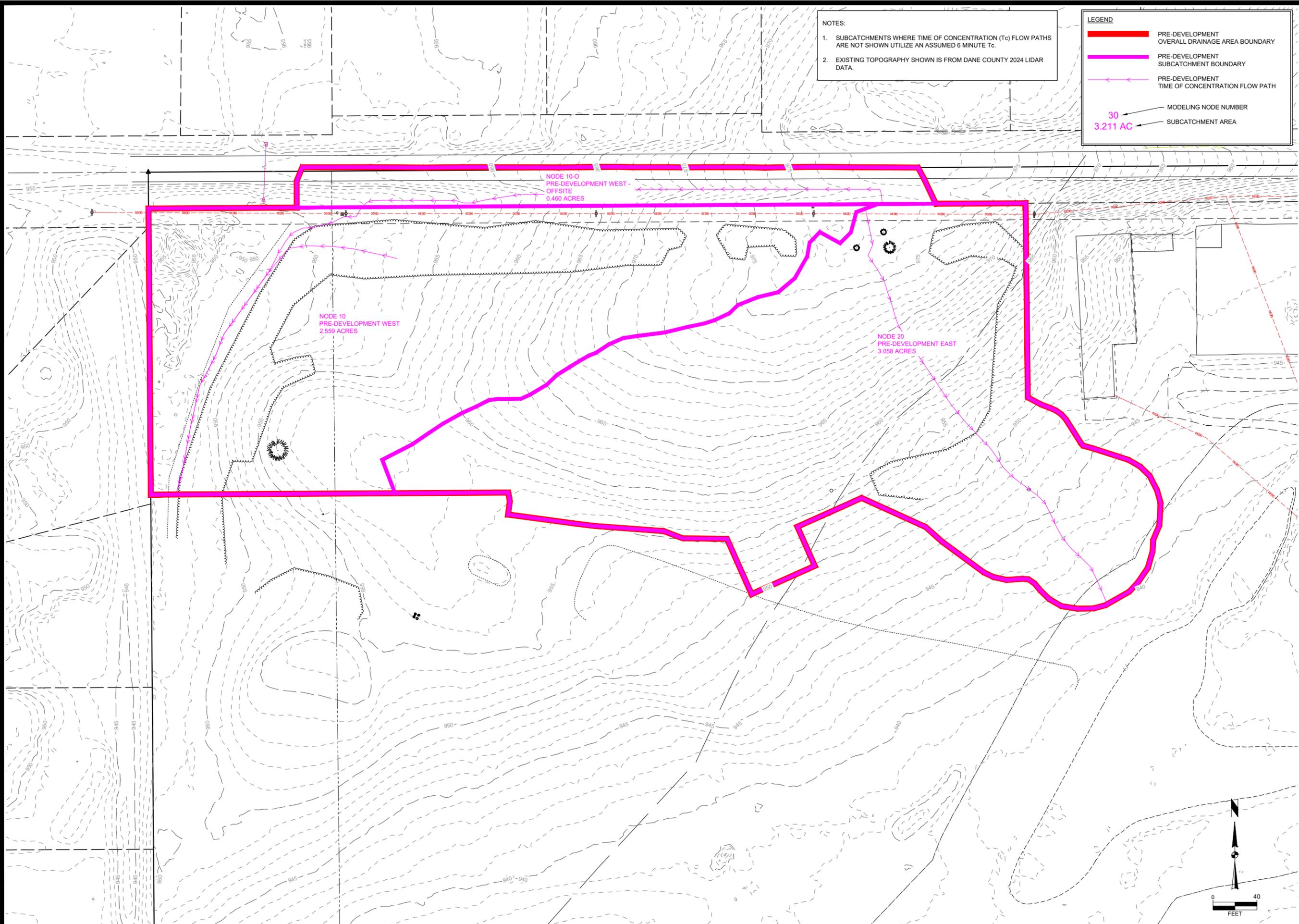
Sheet C700

Sheet C700

Project No: 126.0225.30

V:\p\1260225\126.0225.30\CADD\1260225_DET_1260225_ZACH_ROLE_STORMDETAILS_20260203_2:42 PM_ANSI BELL BLEED B (17.00 X 11.00 INCHES)

V:\proj\112020\112020_0225_300\CAD\112025_0225_300\DRN\112025_0225_300_PRE-DEVELOPMENT DRAINAGE MAP_2026.DWG, 12:35 PM, ANSI FULL BLEED B (17.00 X 11.00) RICHES.



NOTES:
1. SUBCATCHMENTS WHERE TIME OF CONCENTRATION (Tc) FLOW PATHS ARE NOT SHOWN UTILIZE AN ASSUMED 6 MINUTE Tc.
2. EXISTING TOPOGRAPHY SHOWN IS FROM DANE COUNTY 2024 LIDAR DATA.

LEGEND

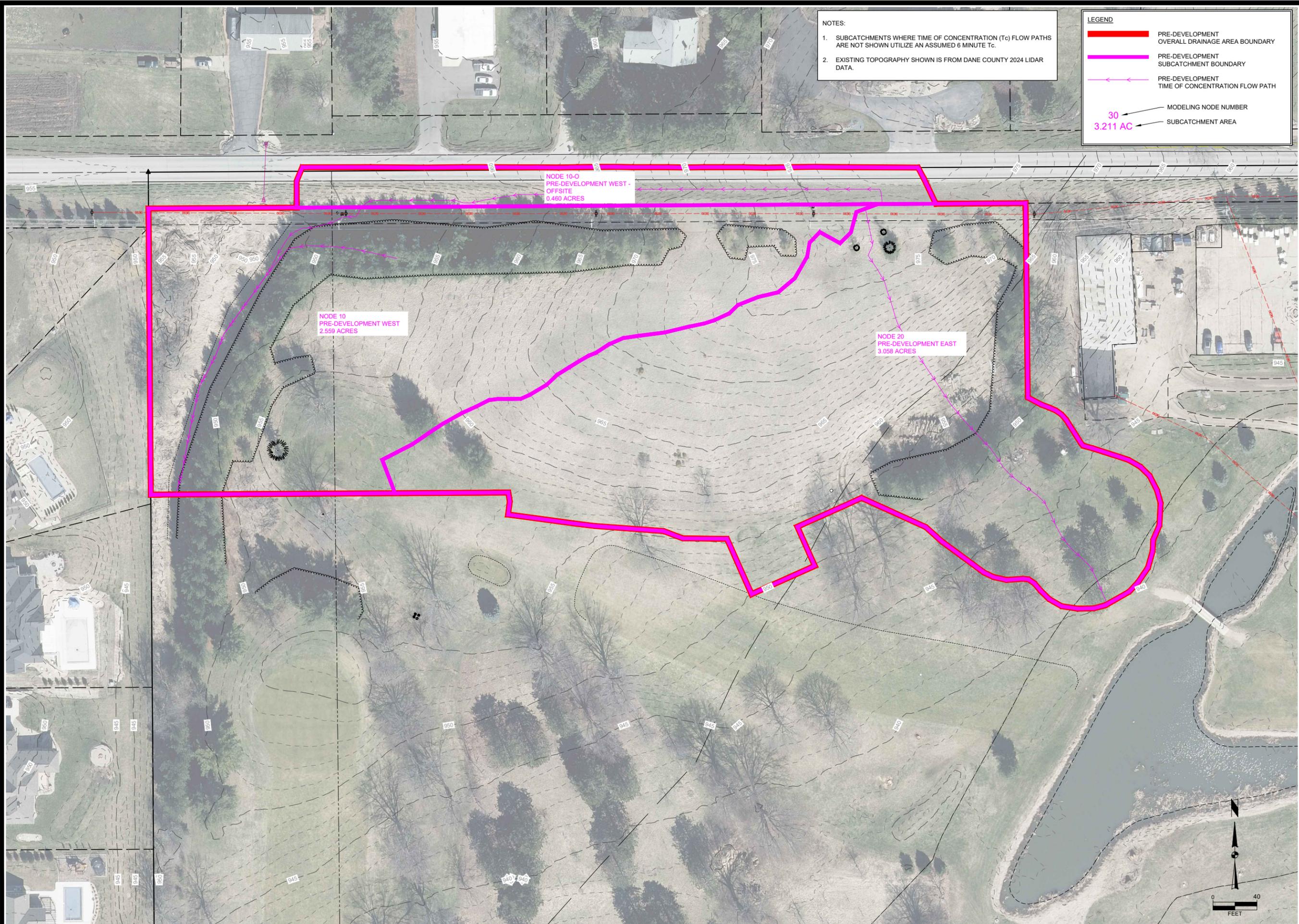
- PRE-DEVELOPMENT OVERALL DRAINAGE AREA BOUNDARY
- PRE-DEVELOPMENT SUBCATCHMENT BOUNDARY
- PRE-DEVELOPMENT TIME OF CONCENTRATION FLOW PATH
- 30 — MODELING NODE NUMBER
- 3.211 AC — SUBCATCHMENT AREA

MARK	REVISION	DATE	BY
ENGR	Checked By: CHKD	Scale: 1" = 40'	
TECH	Date: 02-23-2026	T-R-S: 9N-11E-30	
Project No: 126-0225-30			Sheet FIG1

VALLEY PINES
PRE-DEVELOPMENT DRAINAGE MAP
TOWN OF BRISTOL, DANE COUNTY, WI
SNYDER & ASSOCIATES, INC. |
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 ANKENY, IOWA 50023
 515-964-2020 | www.snyder-associates.com

SNYDER & ASSOCIATES
 Project No: 126.0225.30
 Sheet FIG1

V:\proj\112021\112021_0225_300\CAD\112025_URBAN.dwg PRE-DEVELOPMENT DRAINAGE MAP_2026.DWG, 12:35 PM, ANSI FULL BLEED, B (17.00 X 11.00 INCHES)



NOTES:
1. SUBCATCHMENTS WHERE TIME OF CONCENTRATION (Tc) FLOW PATHS ARE NOT SHOWN UTILIZE AN ASSUMED 6 MINUTE Tc.
2. EXISTING TOPOGRAPHY SHOWN IS FROM DANE COUNTY 2024 LIDAR DATA.

LEGEND

- PRE-DEVELOPMENT OVERALL DRAINAGE AREA BOUNDARY
- PRE-DEVELOPMENT SUBCATCHMENT BOUNDARY
- PRE-DEVELOPMENT TIME OF CONCENTRATION FLOW PATH
- MODELING NODE NUMBER
- SUBCATCHMENT AREA

30
3.211 AC

MARK	REVISION	DATE	BY
ENGR	Checked By: CHKD	Scale: 1" = 40'	
TECH	Date: 02-23-2026	T-R-S: 0N-11E-30	
Project No: 126.0225.30			Sheet FIG2

VALLEY PINES
PRE-DEVELOPMENT DRAINAGE MAP
TOWN OF BRISTOL, DANE COUNTY, WI
SNYDER & ASSOCIATES, INC. |

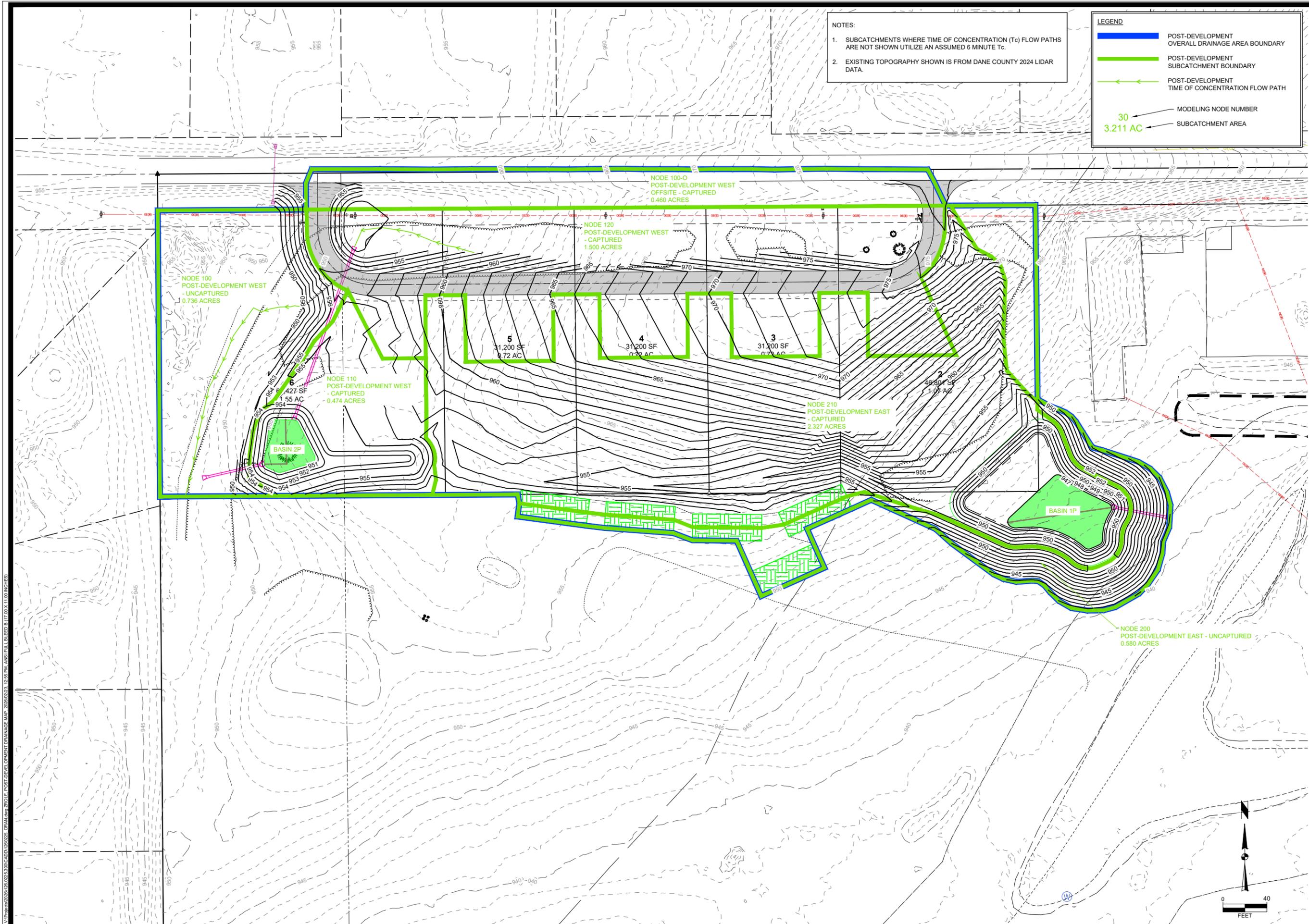
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Project No: 126.0225.30
 Sheet FIG2

L:\Projects\126.0225.30\CAD\150225_URBAN.dwg PLOT: POST-DEVELOPMENT DRAINAGE MAP 2026.02.23, 12:25 PM, ANSI ELL BLEED B (17.00 X 11.00 INCHES)



NOTES:

- SUBCATCHMENTS WHERE TIME OF CONCENTRATION (Tc) FLOW PATHS ARE NOT SHOWN UTILIZE AN ASSUMED 6 MINUTE Tc.
- EXISTING TOPOGRAPHY SHOWN IS FROM DANE COUNTY 2024 LIDAR DATA.

LEGEND

- POST-DEVELOPMENT OVERALL DRAINAGE AREA BOUNDARY
- POST-DEVELOPMENT SUBCATCHMENT BOUNDARY
- POST-DEVELOPMENT TIME OF CONCENTRATION FLOW PATH
- MODELING NODE NUMBER
- SUBCATCHMENT AREA

MARK	REVISION	DATE	BY

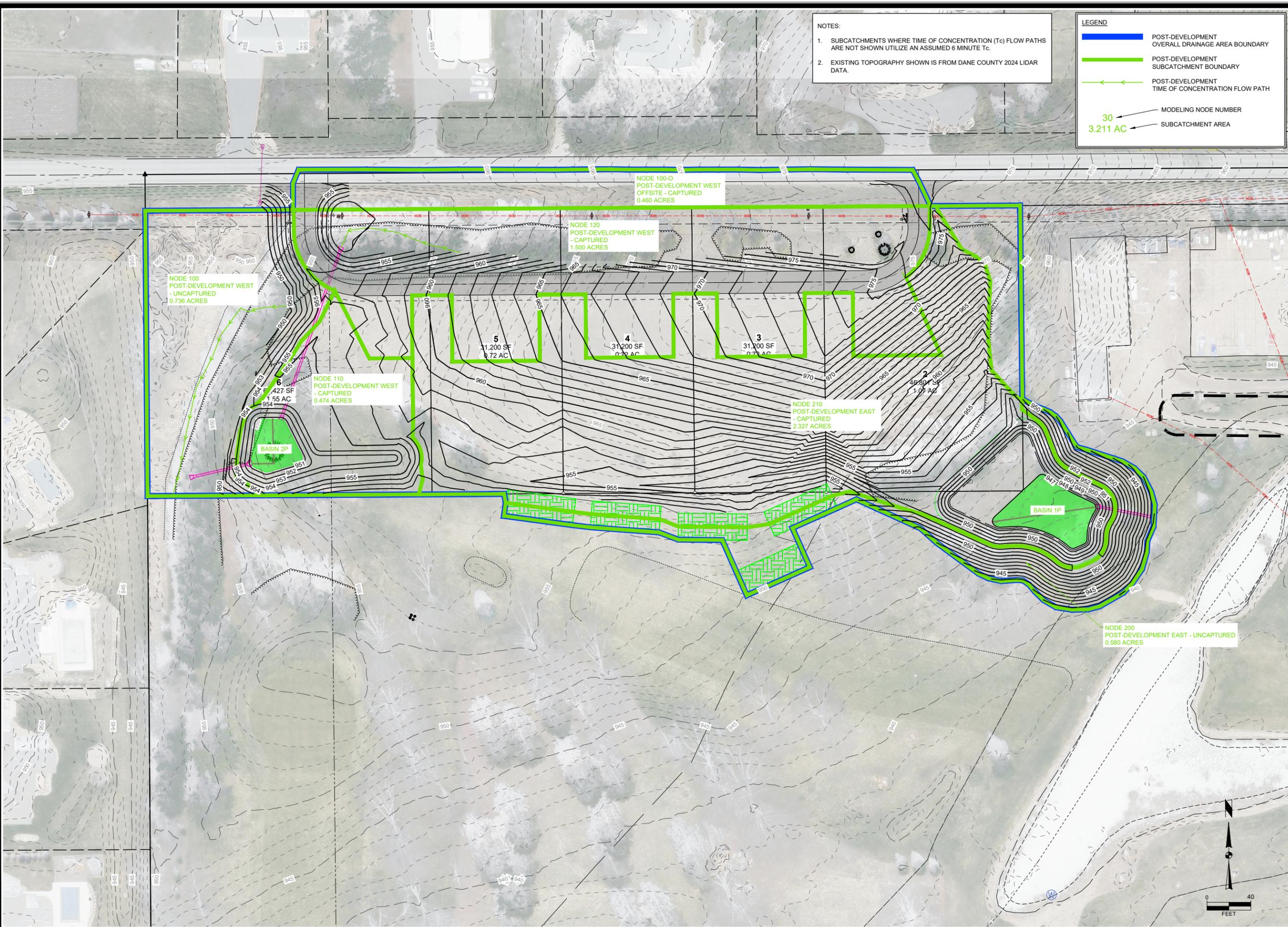
Checked By: CHKD
Date: 02-23-2026
Scale: 1" = 40'
T-R-S: 9N-11E-30
Project No.: 126.0225.30

VALLEY PINES
POST-DEVELOPMENT DRAINAGE MAP
TOWN OF BRISTOL, DANE COUNTY, WI
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Project No: 126.0225.30
Sheet FIG3

V:\Projects\126.0225.30\CAD\15\0225.30\POST-DEVELOPMENT DRAINAGE MAP 2025.02.23.12.25.PLT ANSI ELL B L EED B (17.00 X 11.00 INCHES)



NOTES:
1. SUBCATCHMENTS WHERE TIME OF CONCENTRATION (Tc) FLOW PATHS ARE NOT SHOWN UTILIZE AN ASSUMED 6 MINUTE Tc.
2. EXISTING TOPOGRAPHY SHOWN IS FROM DANE COUNTY 2024 LIDAR DATA.

LEGEND

- POST-DEVELOPMENT OVERALL DRAINAGE AREA BOUNDARY
- POST-DEVELOPMENT SUBCATCHMENT BOUNDARY
- POST-DEVELOPMENT TIME OF CONCENTRATION FLOW PATH
- 30 MODELING NODE NUMBER
- 3.211 AC SUBCATCHMENT AREA

MARK	REVISION	DATE	BY
ENGR	Checked By: CHKD	Scale: 1" = 40'	
TECH	Date: 02-23-2026	T-R-S: 9N-11E-30	
Project No: 126.0225.30			Sheet FIG4

VALLEY PINES
POST-DEVELOPMENT DRAINAGE MAP
TOWN OF BRISTOL, DANE COUNTY, WI
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 Sheet FIG4