



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

EAST TOWNE POND

PUBLIC IMPROVEMENT PROJECT
APPROVED

APPROVED DATE
AUGUST 1, 2022

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

City Engineer

Date

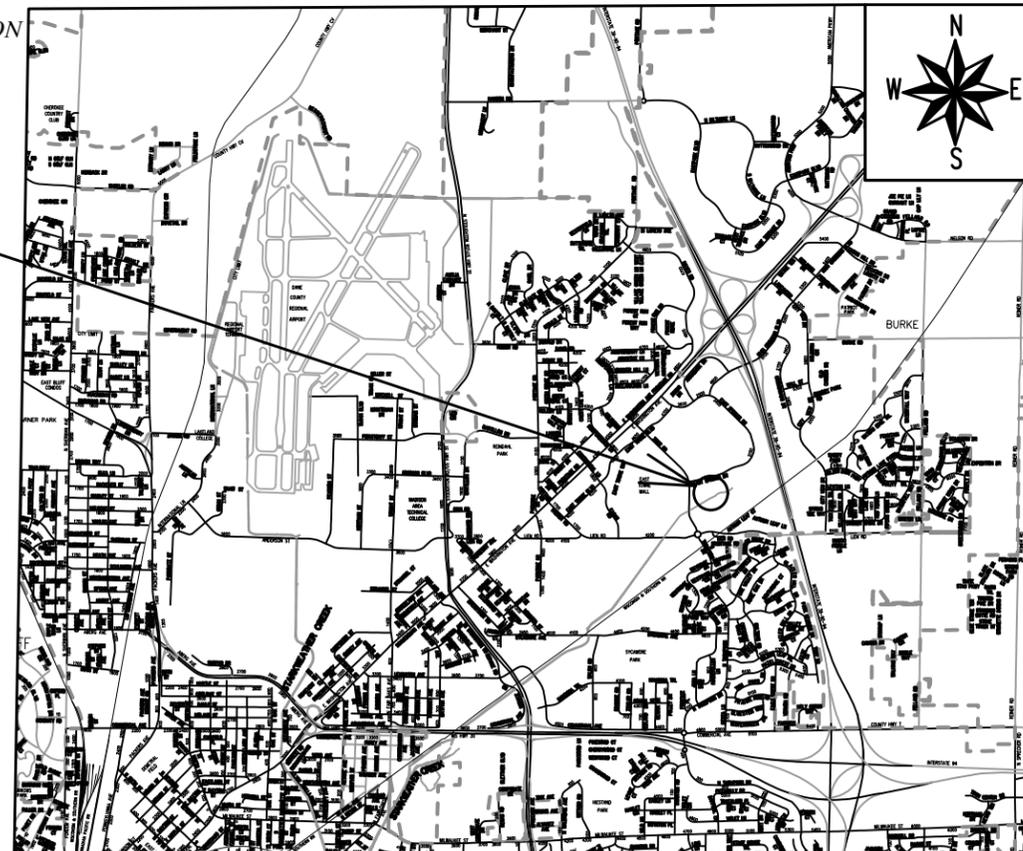
STORM SEWER
DESIGNED BY:

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CITY PROJECT NO. 11066
CONTRACT NO. 9437

PROJECT
LOCATION

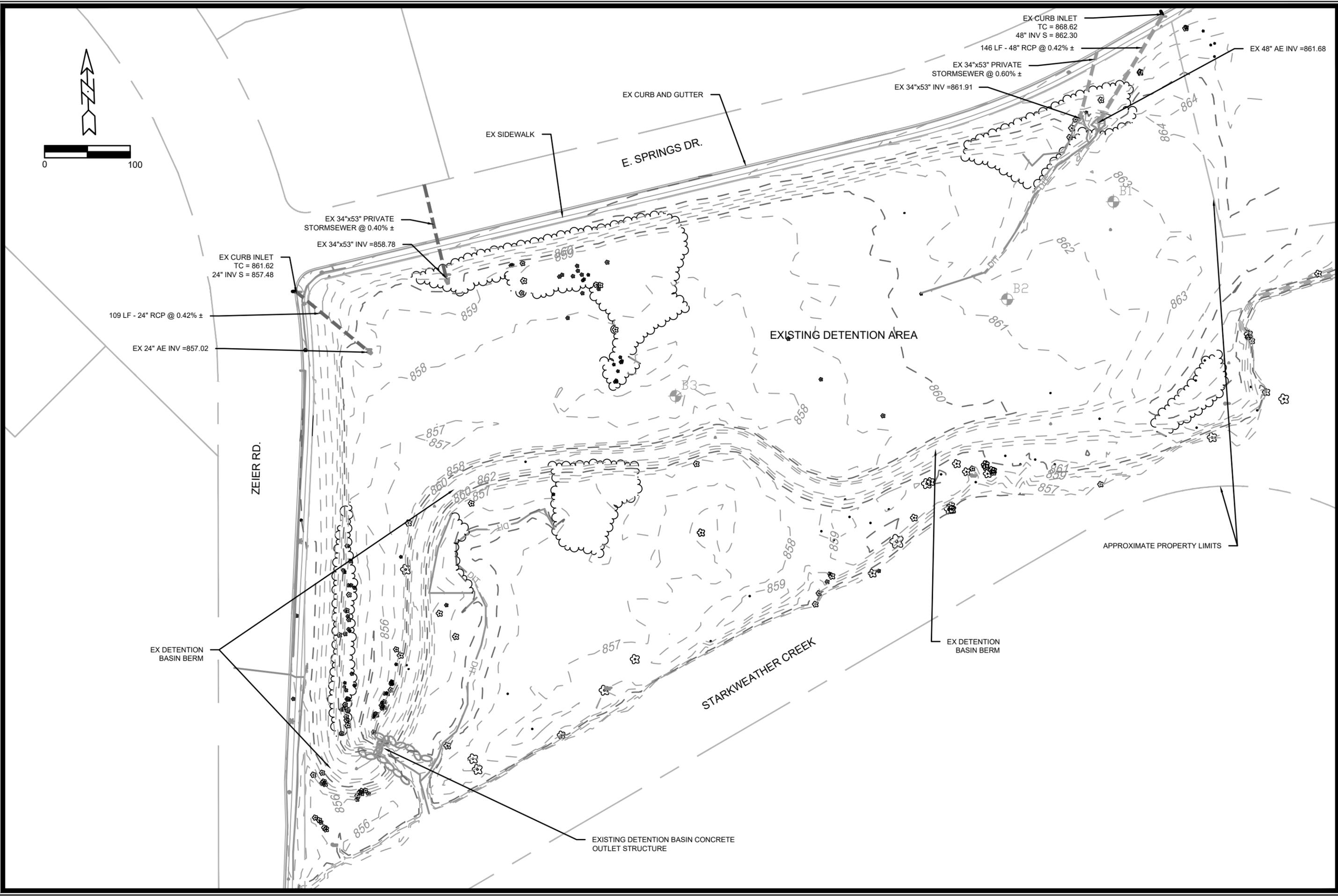
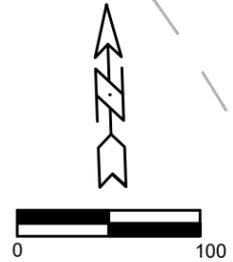


PLOT SCALE: 1:1_XREF

PLOT NAME: ---

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ORIGINATOR: CITY_OF_MADISON



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 EX1

11066
 1801 ZEIER RD, MADISON, WI
 CONTRACT NO: 9437

EXISTING CONDITIONS
 EAST TOWNE POND

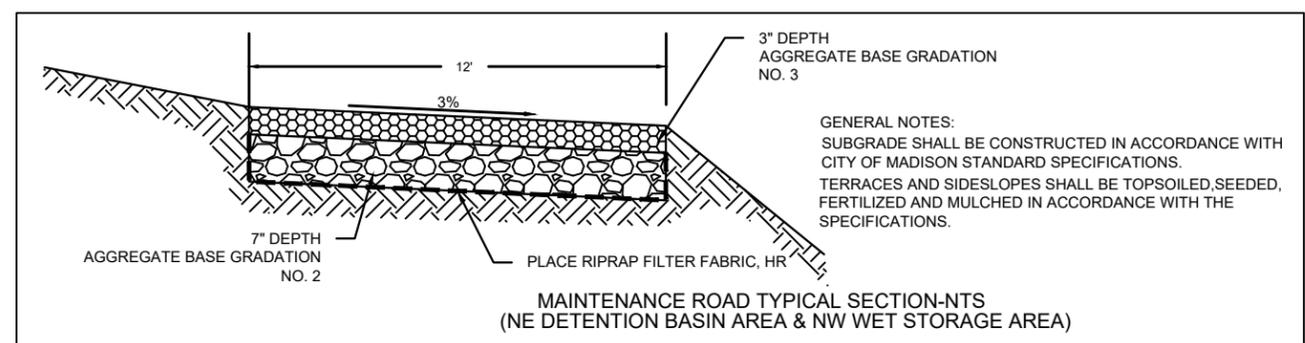
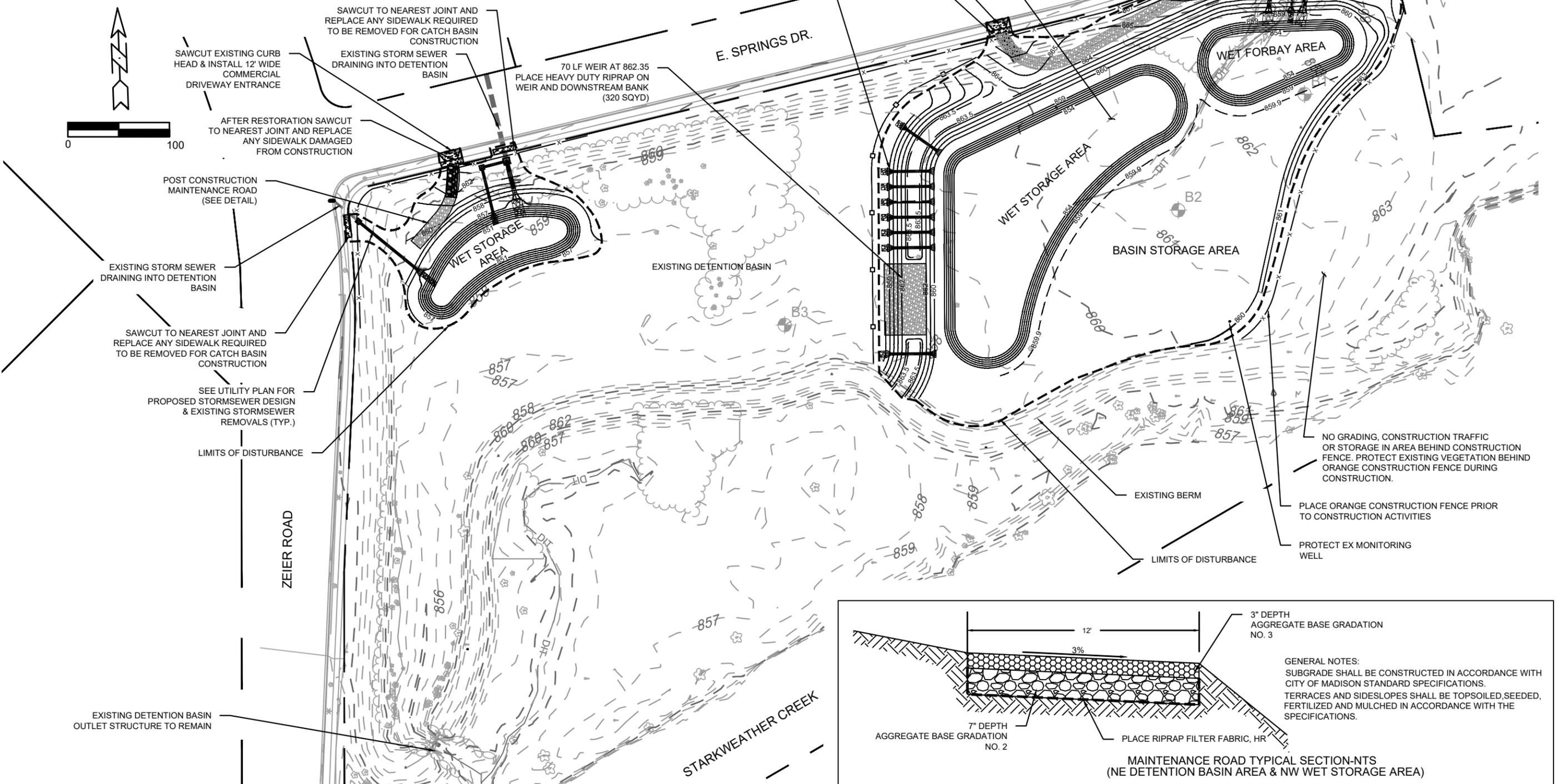
 11066
 EX 1

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GENERAL NOTES:

- ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS
- EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN
- LENGTHS OF STORM SEWER INCLUDE ENDWALLS
- STORM SEWER LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO THE TYPICAL SECTION
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE PER THE CITY OF MADISON REQUIREMENTS. FERTILIZER SHALL BE PLACED PER A SOIL TEST. VEGETATION WITHIN THE DETENTION BASIN SHALL BE TOLERANT OF FLUCTUATING WATER CONDITIONS.
- IF ANY ERRORS, DISCREPANCIES OR DIMENSIONS WITH THE PLAN BECOME APPARENT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED.
- CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB & GUTTER WHICH ABUTS THE PROPERTY AND IS DAMAGED BY CONSTRUCTION
- ALL DAMAGE TO PAVEMENT OF ADJACENT PUBLIC STREETS SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.

(8) - 24" OUTLET CULVERTS SPACED TO SPREAD FLOW WITH APRON ENDWALLS AND 6"X6" RIPRAP PADS. SEE UTILITY PLAN FOR STORMSEWER DESIGN (TYP.)



GENERAL NOTES:
 SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS.
 TERRACES AND SIDESLOPES SHALL BE TOPSOILED, SEED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS.

11066	1801 ZEIER RD, MADISON, WI	9437
OVERALL SITE LAYOUT	EAST TOWNE POND	CONTRACT NO.:
City of Madison Wisconsin Logo 11066 S1		

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 Scale: 1" = 100'
 Date: 10/31/2022 4:15 PM
 Designed By: GVP
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 BY
 S1

LEGEND



DENOTES TREES OVER 6" DIAMETER TO BE REMOVED FOR GREENWAY IMPROVEMENTS. ALL OTHER TREES UNDER 6" DIAMETER, BRUSH AND DOWNED TREES SHALL BE REMOVED BY THE CONTRACTOR WITHIN THE LIMITS OF DISTURBANCE UNDER THE BRUSHING BID ITEM. VERIFY TREES TO BE REMOVED DURING CONSTRUCTION WITH ENGINEER

ALL BRUSH, TREES, AND DOWNED TREES NOT NOTED WITHIN THE LIMITS OF DISTURBANCE, TO BE REMOVED UNDER THE BRUSHING BID ITEM

ALL BRUSH, TREES AND DOWNED TREES NOT NOTED WITHIN THE LIMITS OF DISTURBANCE, TO BE REMOVED UNDER THE BRUSHING BID ITEM

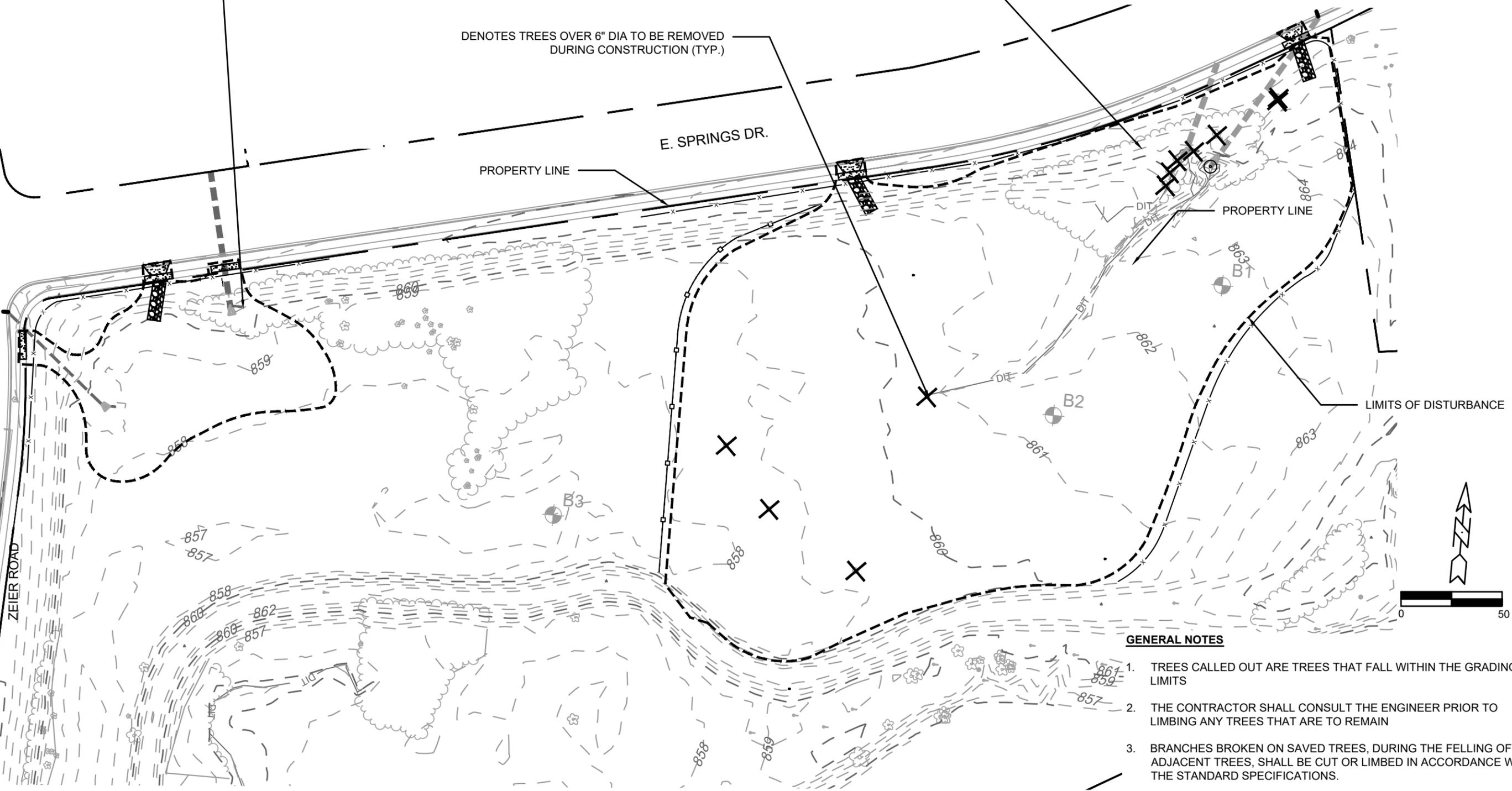
DENOTES TREES OVER 6" DIA TO BE REMOVED DURING CONSTRUCTION (TYP.)

E. SPRINGS DR.

PROPERTY LINE

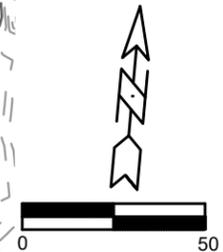
PROPERTY LINE

LIMITS OF DISTURBANCE



GENERAL NOTES

1. TREES CALLED OUT ARE TREES THAT FALL WITHIN THE GRADING LIMITS
2. THE CONTRACTOR SHALL CONSULT THE ENGINEER PRIOR TO LIMBING ANY TREES THAT ARE TO REMAIN
3. BRANCHES BROKEN ON SAVED TREES, DURING THE FELLING OF ADJACENT TREES, SHALL BE CUT OR LIMBED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
4. STUMPS WITHIN THE GRADING LIMITS SHALL BE GRUBBED OR PULLED TO MEET FINAL GRADE.



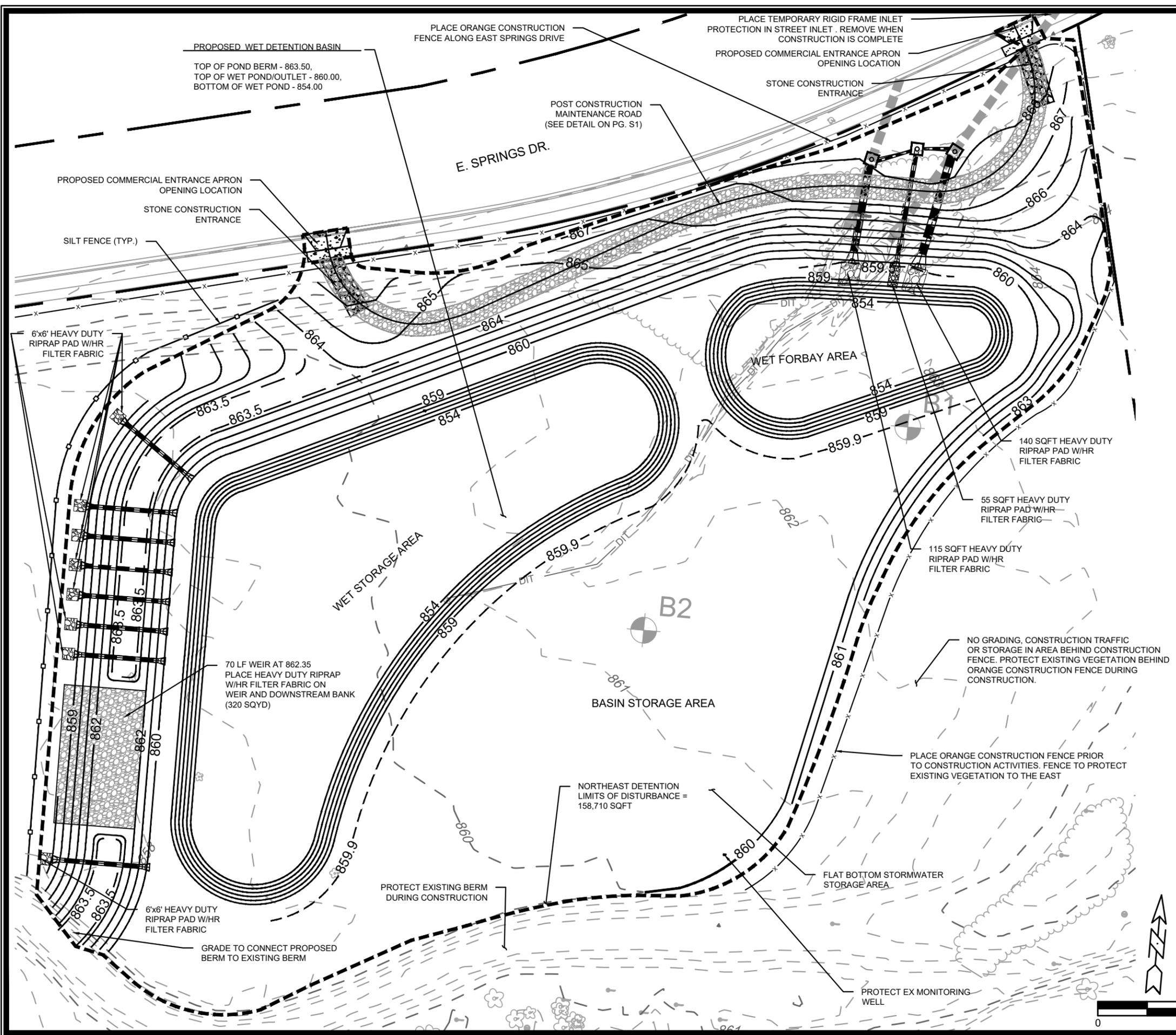
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1801 ZEIER RD, MADISON, WI
CONTRACT NO: 9437

CLEARING PLAN
EAST TOWNE POND



11066
CPI



- EROSION CONTROL NOTES:**
1. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DNR TECHNICAL STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
 2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR SHALL PLACE SILT SOCK OR SILT FENCE AT THE DIRECTION OF THE CONSTRUCTION ENGINEER.
 3. EROSION CONTROL MEASURES INDICATED ON THE PLANS SHALL BE CONSIDERED MINIMUMS. IF DETERMINED NECESSARY DURING CONSTRUCTION ADDITIONAL MEASURES SHALL BE INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
 4. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING CONSTRUCTION.
 5. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL PRACTICES WHEN THE SITE IS RESTORED.
 6. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON
 7. NO SITE GRADING OUTSIDE OF THE LIMITS OF DISTURBANCE
 8. INSTALL INLET PROTECTION IN ALL STORM SEWER INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS
 9. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1
 10. ALL DISTURBED AREAS WITH A SLOPE OF 4:1 OR GREATER, PROPOSED BERM AREA, AND AREA WITHIN THE DETENTION BASIN LIMITS SHALL BE STABILIZED WITH CLASS I, TYPE A ORGANIC EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE C EROSION MATTING.
 11. ALL INCIDENTAL MUD TRACKING OFF-SITE ONTO ADJACENT PUBLIC THOROUGHFARES SHALL BE CLEANED UP AND REMOVED BY THE END OF EACH WORKING DAY USING PROPER DISPOSAL METHODS.
 12. PREVENT EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
 13. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES.
 14. CONTOURS REPRESENT FINISH GRADE.
 15. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE PER THE CITY OF MADISON REQUIREMENTS. FERTILIZER SHALL BE PLACED PER A SOIL TEST.
 16. DEWATERING SHALL BE CONDUCTED PER WDNR STORM WATER MANAGEMENT TECHICAL STANDARD 1061.

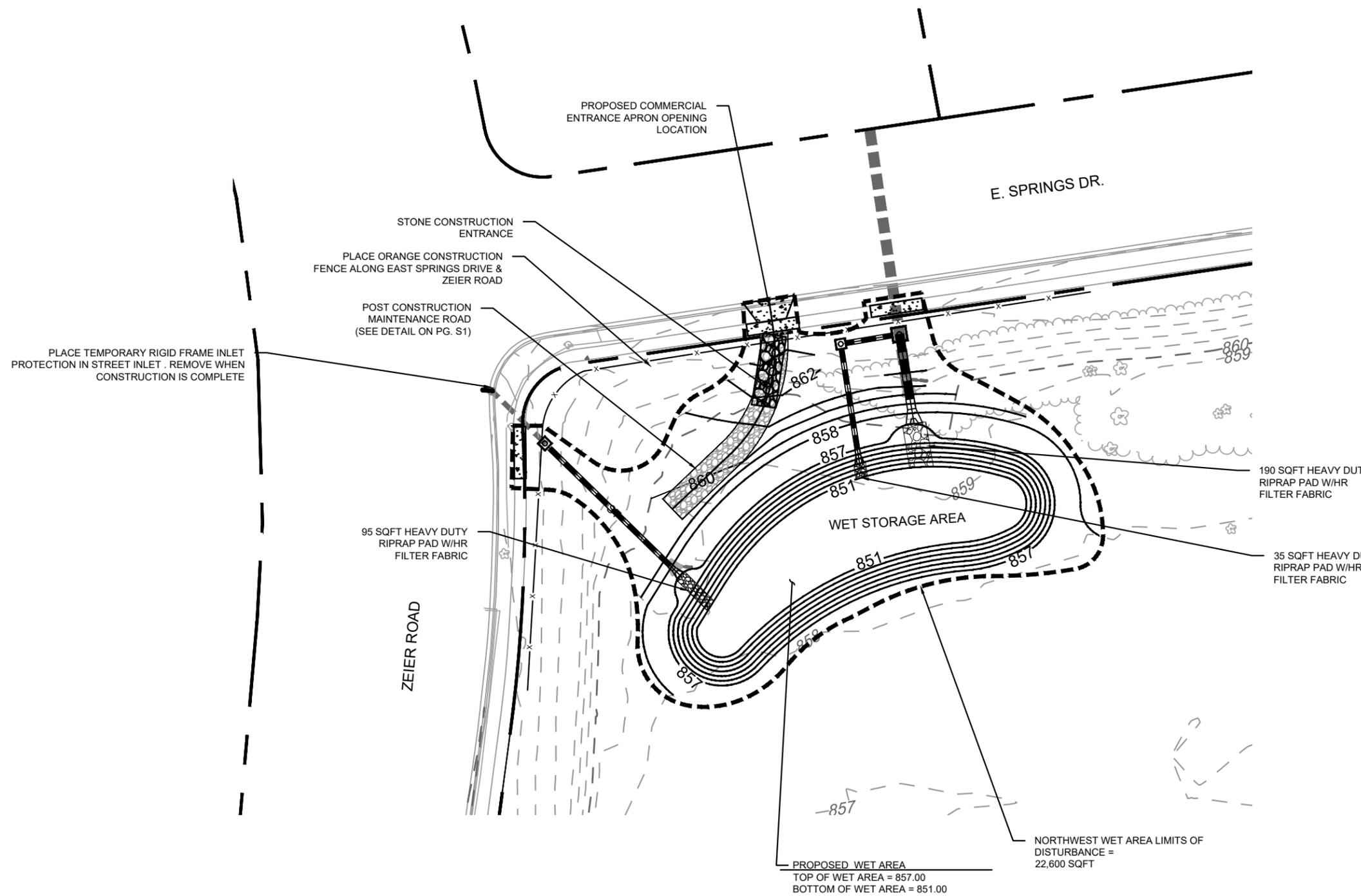
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11066 EAST TOWNE POND 1801 ZEIER RD, MADISON, WI CONTRACT NO: 9437

GRADING AND EROSION CONTROL PLAN - NE DETENTION AREA

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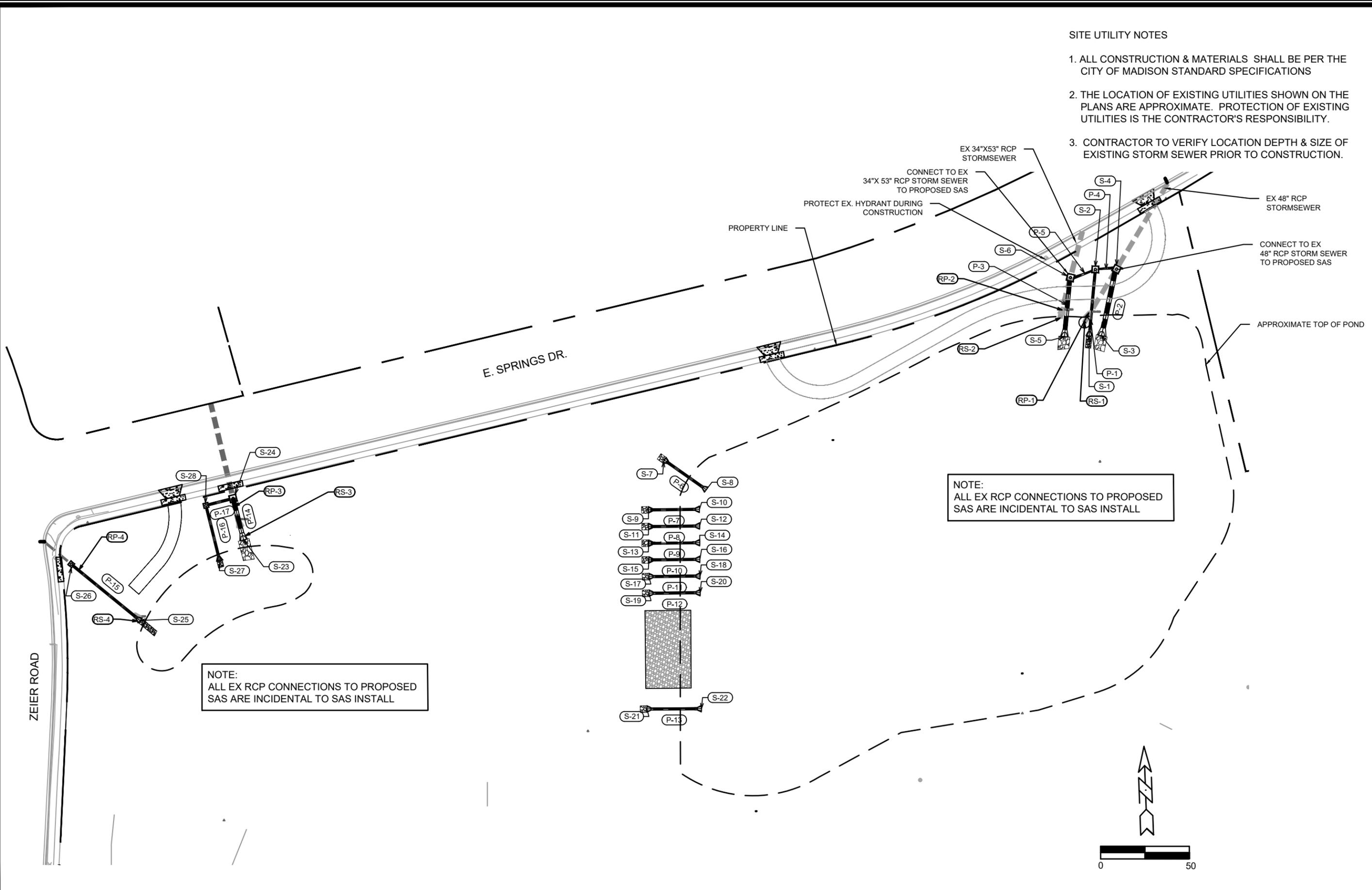


EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DNR TECHNICAL STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR SHALL PLACE SILT SOCK OR SILT FENCE AT THE DIRECTION OF THE CONSTRUCTION ENGINEER.
3. EROSION CONTROL MEASURES INDICATED ON THE PLANS SHALL BE CONSIDERED MINIMUMS. IF DETERMINED NECESSARY DURING CONSTRUCTION ADDITIONAL MEASURES SHALL BE INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
4. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING CONSTRUCTION.
5. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL PRACTICES WHEN THE SITE IS RESTORED.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON
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8. INSTALL INLET PROTECTION IN ALL STORM SEWER INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS
9. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1
10. ALL DISTURBED AREAS WITH A SLOPE OF 4:1 OR GREATER, PROPOSED BERM AREA, AND AREA WITHIN THE DETENTION BASIN LIMITS SHALL BE STABILIZED WITH CLASS I, TYPE A ORGANIC EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE C EROSION MATTING.
11. ALL INCIDENTAL MUD TRACKING OFF-SITE ONTO ADJACENT PUBLIC THOROUGHFARES SHALL BE CLEANED UP AND REMOVED BY THE END OF EACH WORKING DAY USING PROPER DISPOSAL METHODS.
12. PREVENT EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
13. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES.
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16. DEWATERING SHALL BE CONDUCTED PER WDNR STORM WATER MANAGEMENT TECHNICAL STANDARD 1061.

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GP1	GP1	GP1	GP1	GP1	GP1
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GP 2					

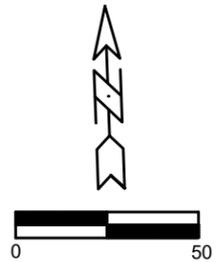
GRADING AND EROSION CONTROL PLAN - NW WET STORAGE AREA
 EAST TOWNE POND
 1801 ZEIER RD, MADISON, WI
 CONTRACT NO: 9437
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 City of Madison Wisconsin logo



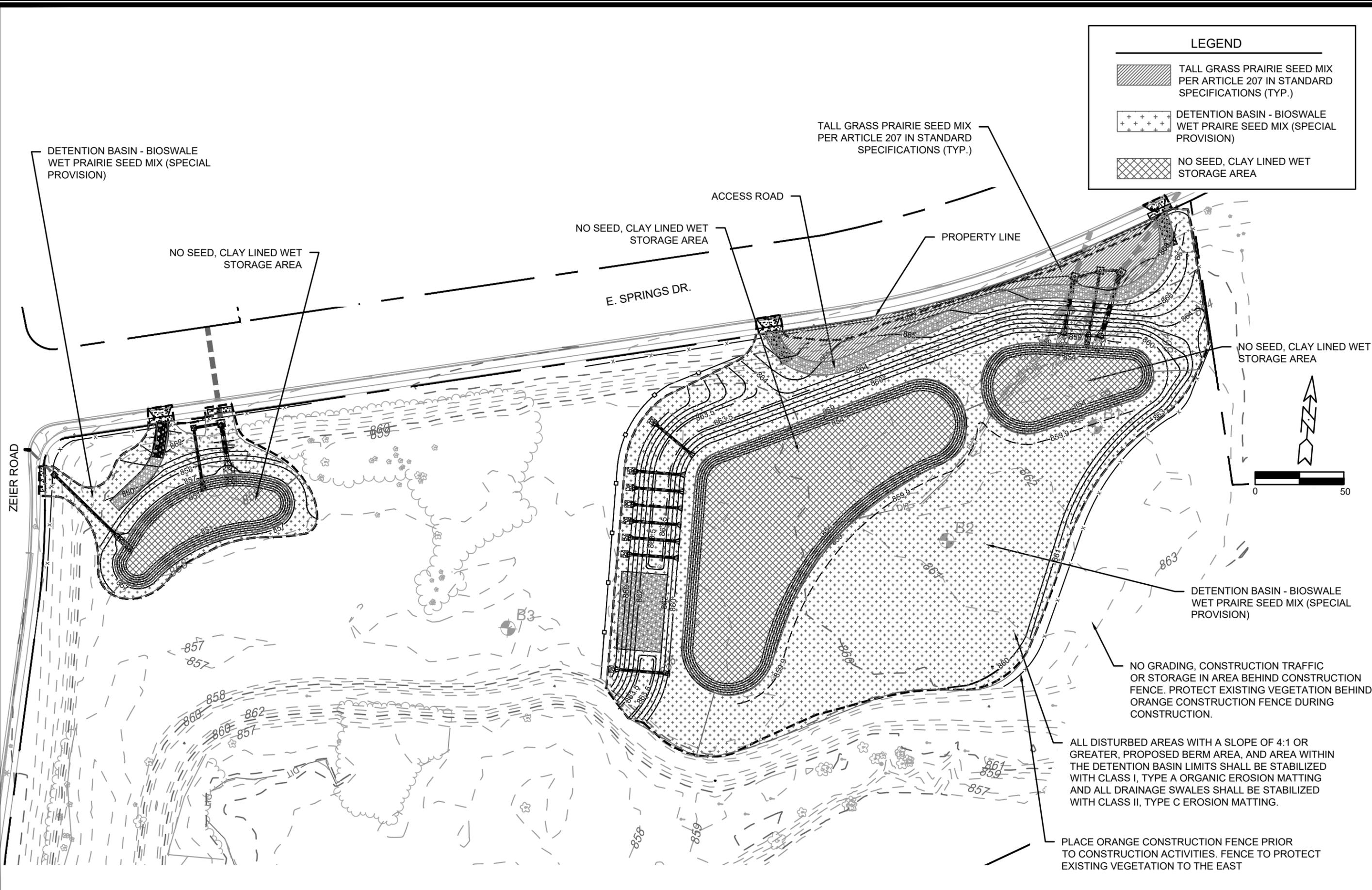
- SITE UTILITY NOTES**
1. ALL CONSTRUCTION & MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS
 2. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. PROTECTION OF EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
 3. CONTRACTOR TO VERIFY LOCATION DEPTH & SIZE OF EXISTING STORM SEWER PRIOR TO CONSTRUCTION.

NOTE:
ALL EX RCP CONNECTIONS TO PROPOSED SAS ARE INCIDENTAL TO SAS INSTALL

NOTE:
ALL EX RCP CONNECTIONS TO PROPOSED SAS ARE INCIDENTAL TO SAS INSTALL



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UTILITY PLAN			
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1801 ZEIER RD, MADISON, WI			
CONTRACT NO: 9437			



LEGEND

	TALL GRASS PRAIRIE SEED MIX PER ARTICLE 207 IN STANDARD SPECIFICATIONS (TYP.)
	DETENTION BASIN - BIOSWALE WET PRAIRIE SEED MIX (SPECIAL PROVISION)
	NO SEED, CLAY LINED WET STORAGE AREA

DETENTION BASIN - BIOSWALE WET PRAIRIE SEED MIX (SPECIAL PROVISION)

NO SEED, CLAY LINED WET STORAGE AREA

TALL GRASS PRAIRIE SEED MIX PER ARTICLE 207 IN STANDARD SPECIFICATIONS (TYP.)

NO SEED, CLAY LINED WET STORAGE AREA

ACCESS ROAD

PROPERTY LINE

E. SPRINGS DR.

NO SEED, CLAY LINED WET STORAGE AREA

DETENTION BASIN - BIOSWALE WET PRAIRIE SEED MIX (SPECIAL PROVISION)

NO GRADING, CONSTRUCTION TRAFFIC OR STORAGE IN AREA BEHIND CONSTRUCTION FENCE. PROTECT EXISTING VEGETATION BEHIND ORANGE CONSTRUCTION FENCE DURING CONSTRUCTION.

ALL DISTURBED AREAS WITH A SLOPE OF 4:1 OR GREATER, PROPOSED BERM AREA, AND AREA WITHIN THE DETENTION BASIN LIMITS SHALL BE STABILIZED WITH CLASS I, TYPE A ORGANIC EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE C EROSION MATTING.

PLACE ORANGE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION ACTIVITIES. FENCE TO PROTECT EXISTING VEGETATION TO THE EAST



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VEGETATION PLAN

EAST TOWNE POND

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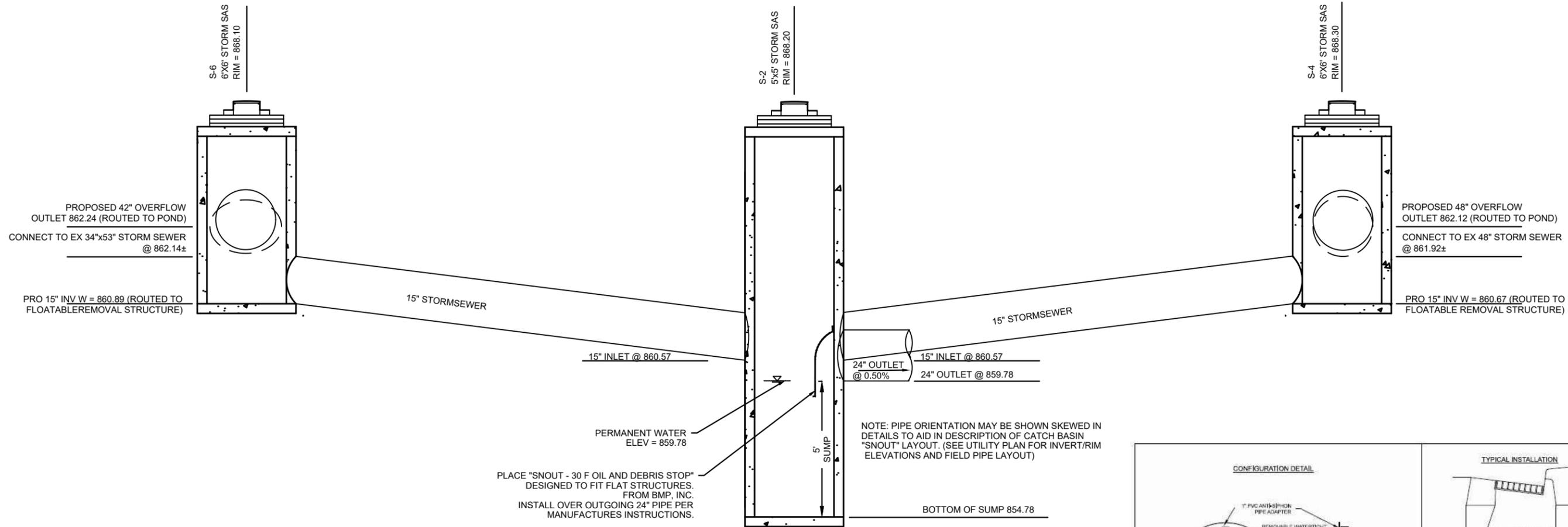
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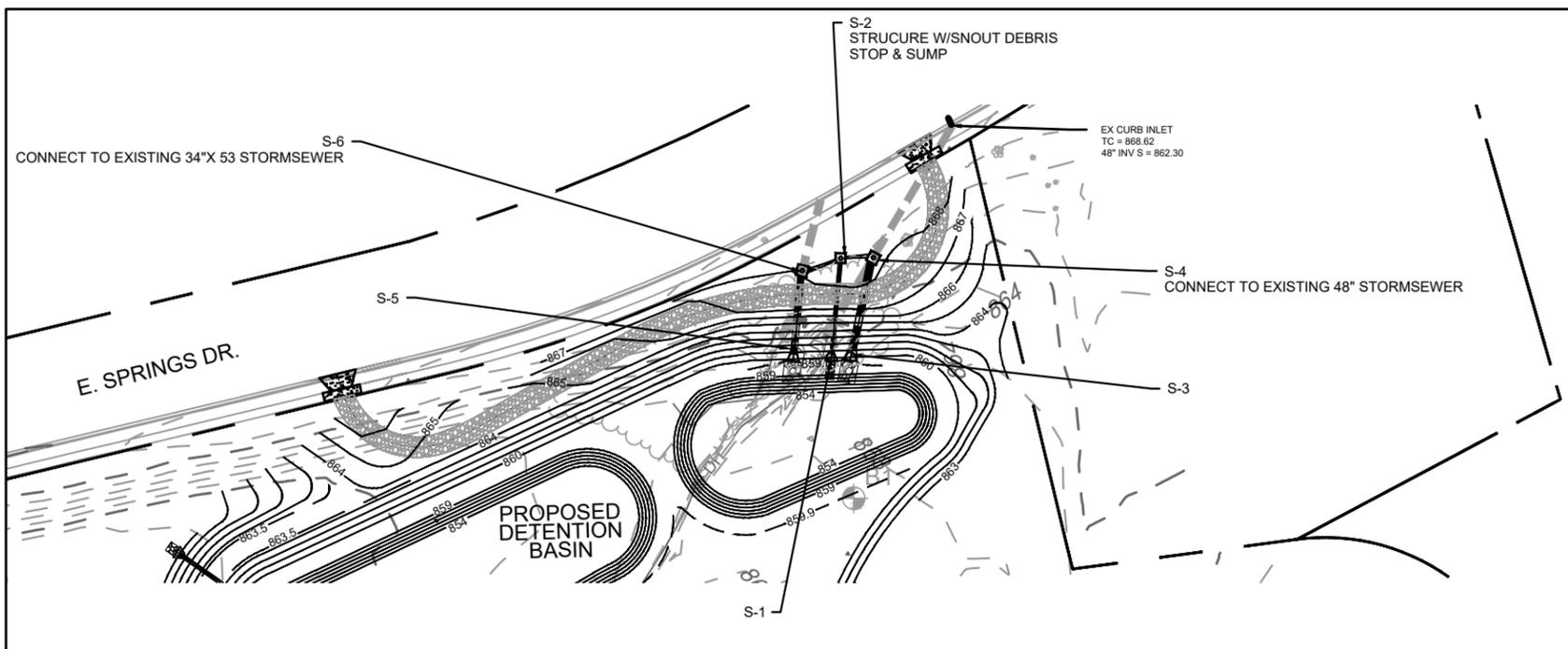
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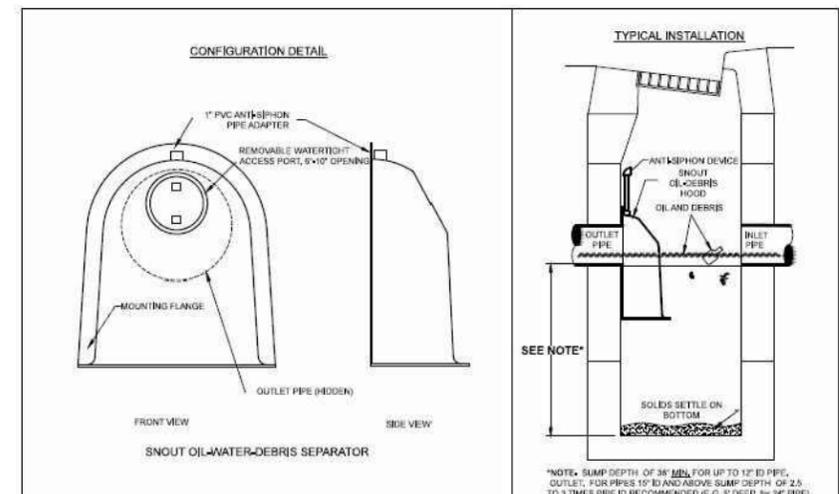
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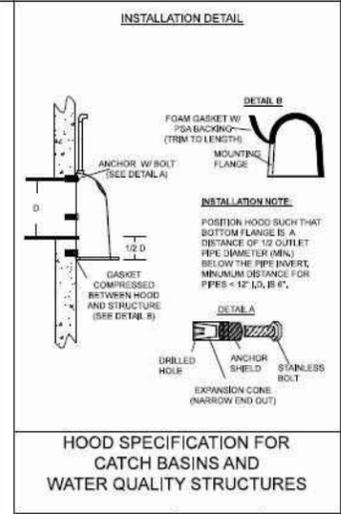
PROFILE VIEW
PROPOSED EAST TOWNE WET DETENTION BASIN -
FLOATABLE REMOVAL SYSTEM (S2, S4, S6)
 NOT TO SCALE



PLAN VIEW
PROPOSED EAST TOWNE WET DETENTION BASIN - FLOATABLE REMOVAL SYSTEM



- NOTES:**
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC., 9 MATTHEWS DRIVE, UNIT A1-A2, EAST HADDAM, CT 06423. TOLL FREE: (800) 504-6008 OR (888) 434-0277, FAX: (877) 434-3107. WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
 - ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH 150 GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125\"/>

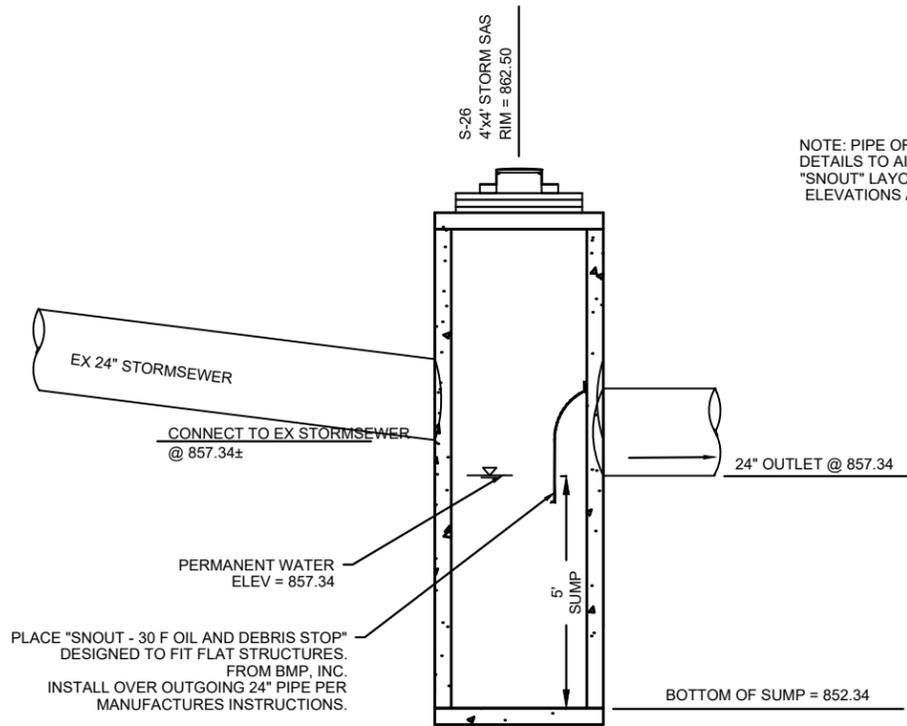


HOOD SPECIFICATION FOR
CATCH BASINS AND
WATER QUALITY STRUCTURES

DESCRIPTION	DATE	SCALE
OIL-DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)	09/08/18	NONE
	DRAWING NUMBER	SP-SN

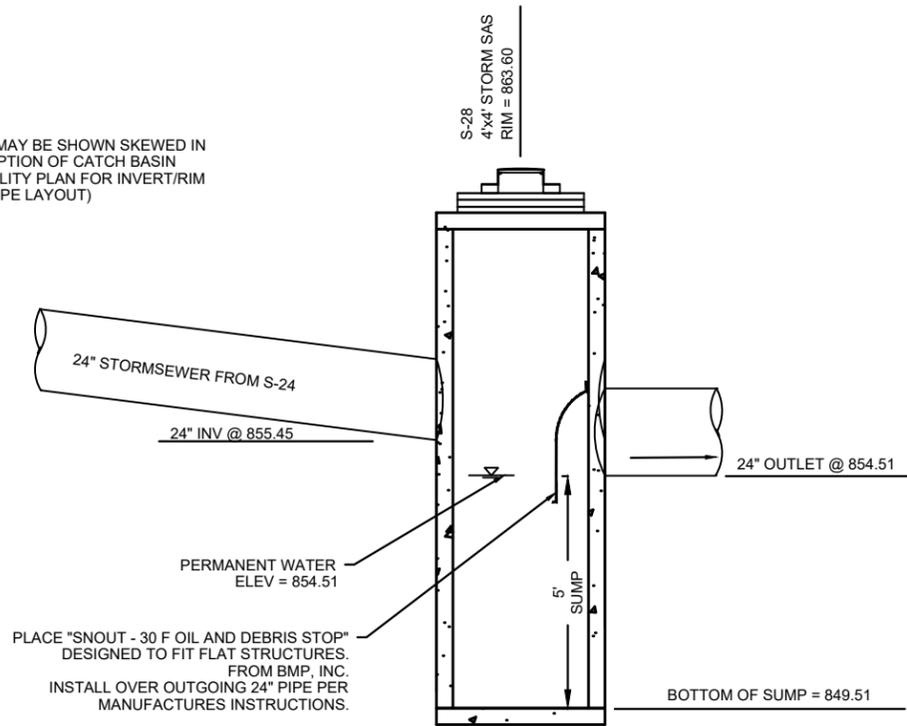
US Patent # 6126817, 7951294, 7857966, 8512556
 Canada Patent # 2285146, 2690156, 2690156 others pending

11066 EAST TOWNE DETENTION - NE DETENTION FLOATABLE REMOVAL SYSTEM	11066 1801 ZEIER RD, MADISON, WI EAST TOWNE POND
CONTRACT NO.:	D1
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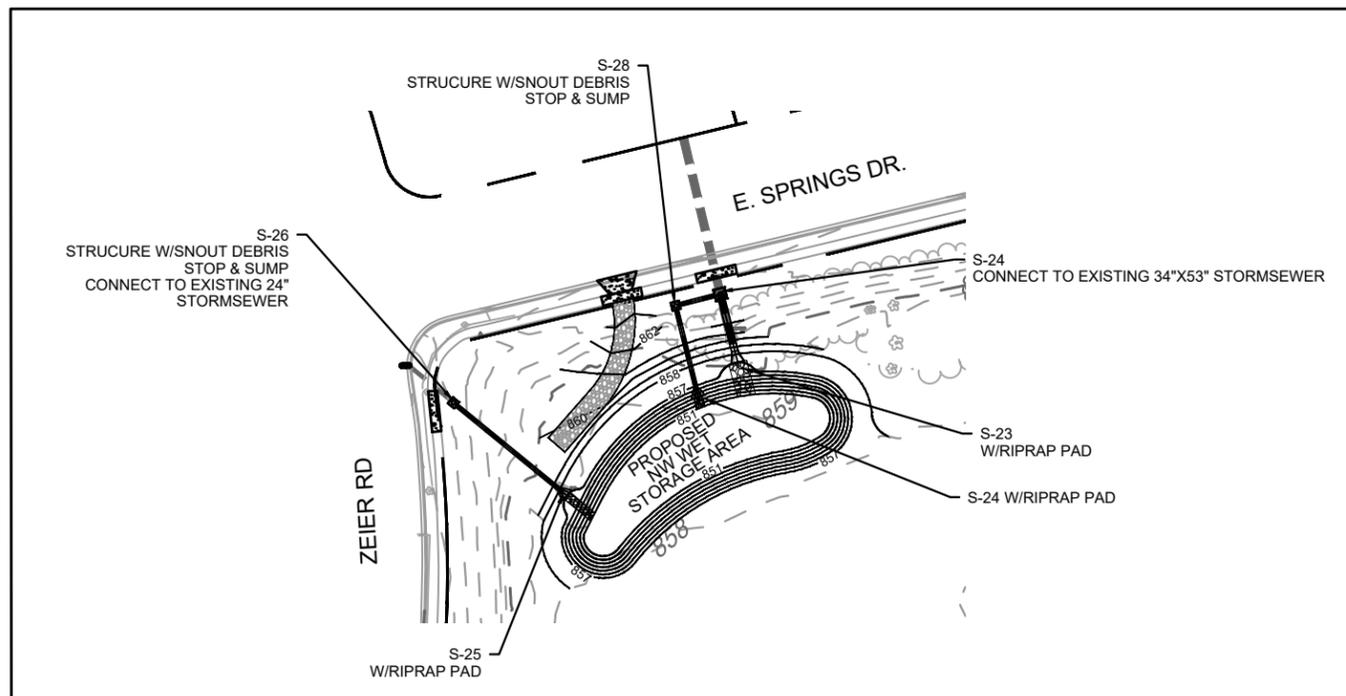


PROFILE VIEW
PROPOSED EAST TOWNE NW FOREBAY -
FLOATABLE REMOVAL SYSTEM (S26)
 NOT TO SCALE

NOTE: PIPE ORIENTATION MAY BE SHOWN SKEWED IN DETAILS TO AID IN DESCRIPTION OF CATCH BASIN "SNOUT" LAYOUT. (SEE UTILITY PLAN FOR INVERT/RIM ELEVATIONS AND FIELD PIPE LAYOUT)



PROFILE VIEW
PROPOSED EAST TOWNE NW FOREBAY -
FLOATABLE REMOVAL SYSTEM (S28)
 NOT TO SCALE



PLAN VIEW
PROPOSED EAST TOWNE NW FOREBAY AREA - FLOATABLE REMOVAL SYSTEM

CONFIGURATION DETAIL

FRONT VIEW SIDE VIEW

SNOUT OIL-WATER-DEBRIS SEPARATOR

TYPICAL INSTALLATION

SEE NOTE*

*NOTE: SUMP DEPTH OF 30" MIN FOR UP TO 12" ID PIPE. OUTLET FOR PRESS UP TO 10" ABOVE SUMP DEPTH OF 2.5 TO 3 TIMES PIPE ID RECOMMENDED (E.G., 3" DEEP FOR 24" PIPE)

NOTES:

- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC., 9 MATTHEWS DRIVE, UNIT A-42, EAST HADDAM, CT 06423. TOLL FREE: (800) 504-6008 OR (888) 434-0277, FAX: (877) 434-3107. WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
- ALL HOODS SHALL BE EQUIPPED WITH A WATER TIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL).
- THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
- THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 5" FOR PIPES <12" I.D.
- THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
- THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
- ALL STRUCTURE JOINTS SHALL BE WATER TIGHT.
- THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 1/2" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER, (SEE INSTALLATION DETAIL).
- INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
 - INSTALLATION INSTRUCTIONS
 - PVC ANTI-SIPHON VENT PIPE AND ADAPTER
 - OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
 - 3/8" STAINLESS STEEL BOLTS
 - ANCHOR SHIELDS

INSTALLATION DETAIL

INSTALLATION NOTE: POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER MIN BELOW THE PIPE INVERT, MINIMUM DISTANCE FOR PIPES <12" I.D. IS 5".

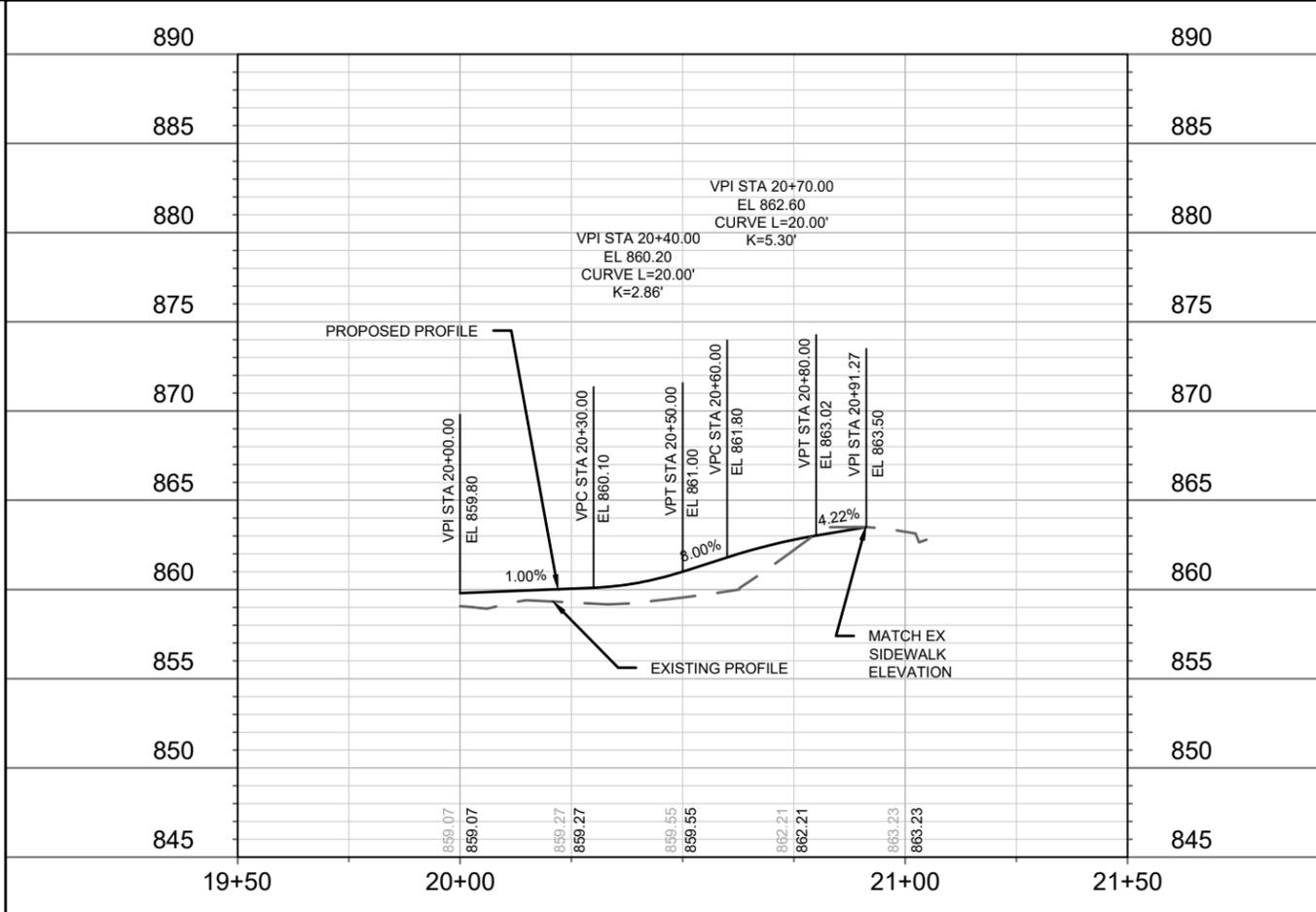
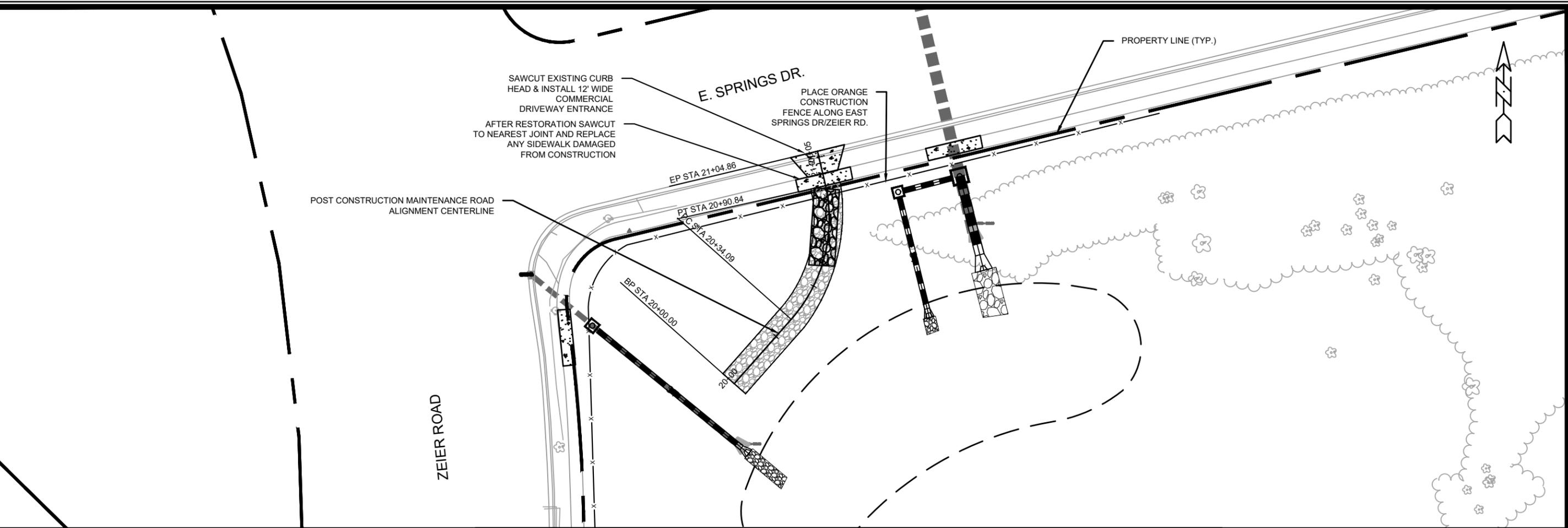
DETAIL A: DRILLED HOLE, ANCHOR SHIELD, STAINLESS BOLT, EXPANSION CONE (NARROW END OUT)

DETAIL B: FOAM GASKET W/ PSA BACKING (TRIM TO LENGTH), MOUNTING FLANGE

HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES

DESCRIPTION	DATE	SCALE
OIL-DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)	09/08/18	NONE
	DRAWING NUMBER SP-SN	

US Patent # 6126817, 7951294, 7857966, 8512556
 Canada Patent # 2285146, 2690156, 2690156 others pending



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 NORTHWEST MAINTENANCE ACCESS ROAD PLAN AND PROFILE
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 CONTRACT NO: 9437
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 P2