

SPRINGDALE ESTATES DRAINAGE IMPROVEMENTS

CITY OF PEWAUKEE
PEWAUKEE, WI
FEBRUARY 16, 2024



PROJECT
SPRINGDALE
ESTATES
DRAINAGE
IMPROVEMENTS

CLIENT
CITY OF PEWAUKEE

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REGISTRATION

ISSUE/REVISION

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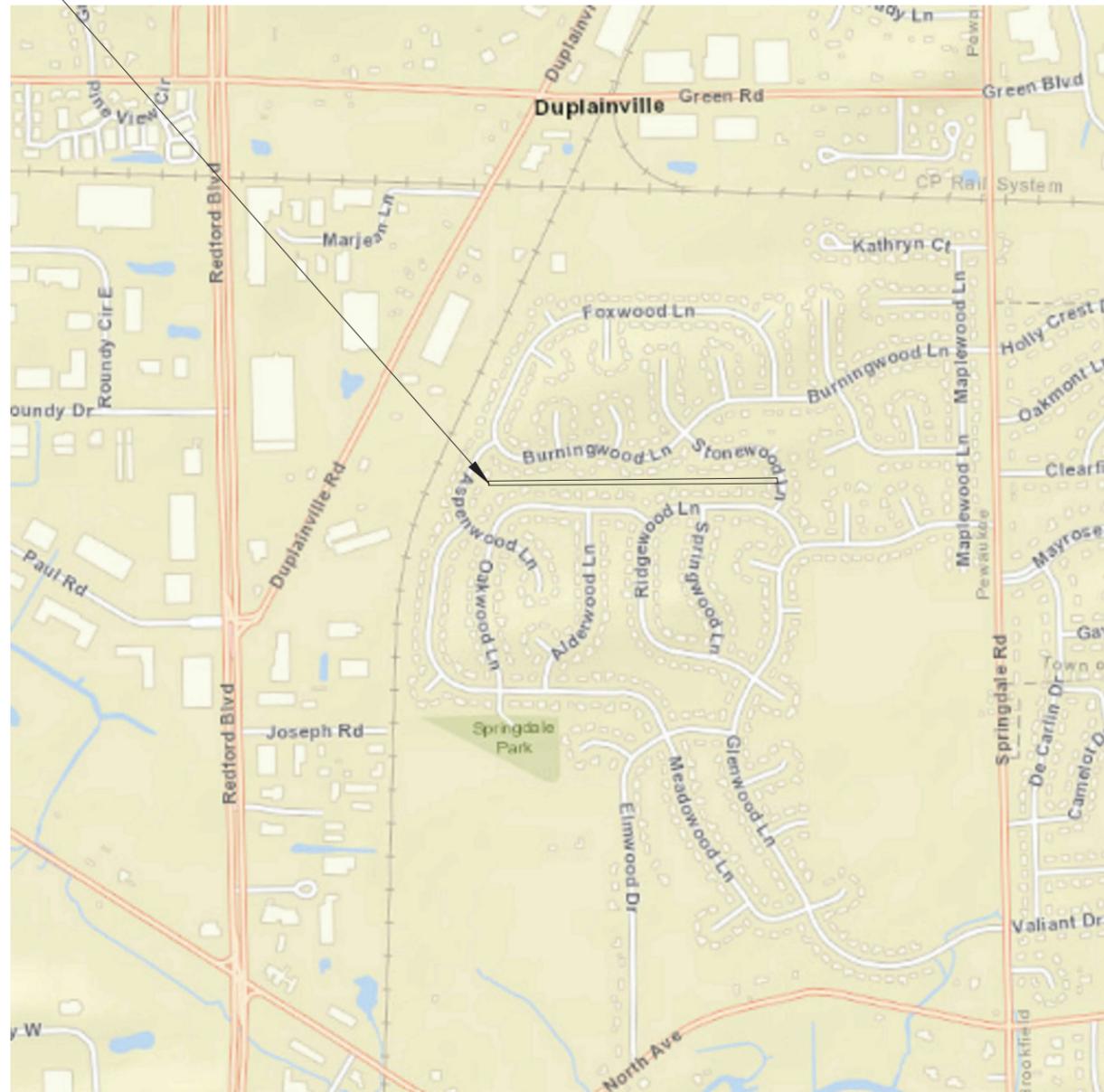
KEY PLAN

PROJECT NUMBER
60339891

SHEET TITLE
COVER SHEET

SHEET NUMBER
1

PROJECT LOCATION



INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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4-5	EROSION CONTROL SHEETS
6-9	PLANS AND PROFILES
10-12	CROSS SECTIONS
13-16	DETAILS

NOTE: MAP NOT TO SCALE

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ABBREVIATIONS

B.M.	BENCH MARK
CB	CATCH BASIN
CL	CENTER LINE
C.O.	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DB	DRAINAGE BASIN
EL	ELEVATION
EX	EXISTING
I.E.	INVERT ELEVATION
L.F.	LINEAL FEET
MH	MANHOLE
PVC	POLYVINYL CHLORIDE PIPE
R	RIM ELEVATION
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
PPOL	POWER POLE
SAN	SANITARY SEWER
SB	SOIL BORING
SS	STORM SEWER
STA	STATION
TEMP	TEMPORARY
TC	TOP OF CURB
UD	UNDERDRAIN
UG	UNDERGROUND
WDNR	WISCONSIN DEPARTMENT OF NATURAL RESOURCES
WISDOT	WISCONSIN DEPARTMENT OF TRANSPORTATION
WM	WATER MAIN

LEGEND

	SANITARY MANHOLE		PROPOSED 1' CONTOUR
	CONCRETE END SECTION		PROPOSED 5' CONTOUR
	HYDRANT		EXISTING 1' CONTOUR
	WATER VALVE		EXISTING 5' CONTOUR
	POWER POLE		SANITARY SEWER LINE
	GUY WIRE		STORM SEWER LINE
	ELECTRIC METER/PEDESTAL		OVERHEAD ELECTRIC LINE
	TELEPHONE PEDESTAL		UNDERGROUND ELECTRIC
	SIGN		UNDERGROUND PHONE
	BIRD HOUSE POST		CENTERLINE ROAD
	PROPOSED STORM MANHOLE		EDGE OF GRAVEL
	FOUND IRON PIPE		CENTERLINE OF DITCH
	FOUND REBAR		TREELINE/BRUSH LINE
	AECOM TRAVERSE POINT		LANDSCAPE AREA
	BUSH		CULVERT LINE
	DECIDUOUS TREE		DATA PRODUCED FROM SUBDIVISION PLAT
	CONIFEROUS TREE		DRAINAGE EASEMENT
	ROCK		LANDSCAPE EASEMENT AND BERM AREA
	EX. STORM SEWER INLET		SANITARY SEWER EASEMENT
	EX STORM SEWER CATCH BASIN		EXISTING CONCRETE FLUME
	EXISTING RUMBLE (BROKEN CONC.)		PROPOSED SEWER CENTERLINE ALIGNMENT
	REMOVE TREE		PROPOSED SMALL DIAMETER STORM SEWER
	TREE PROTECTION FENCE		

DETAIL REFERENCE SYSTEM



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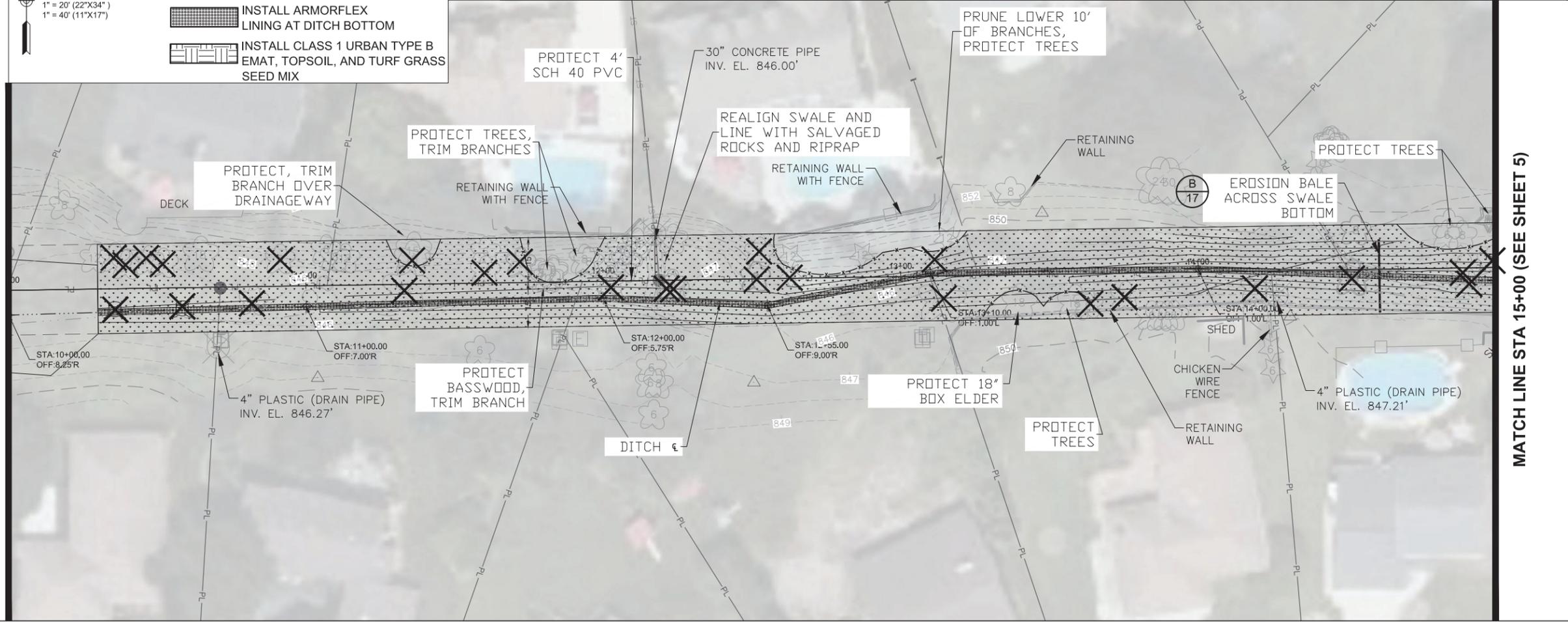
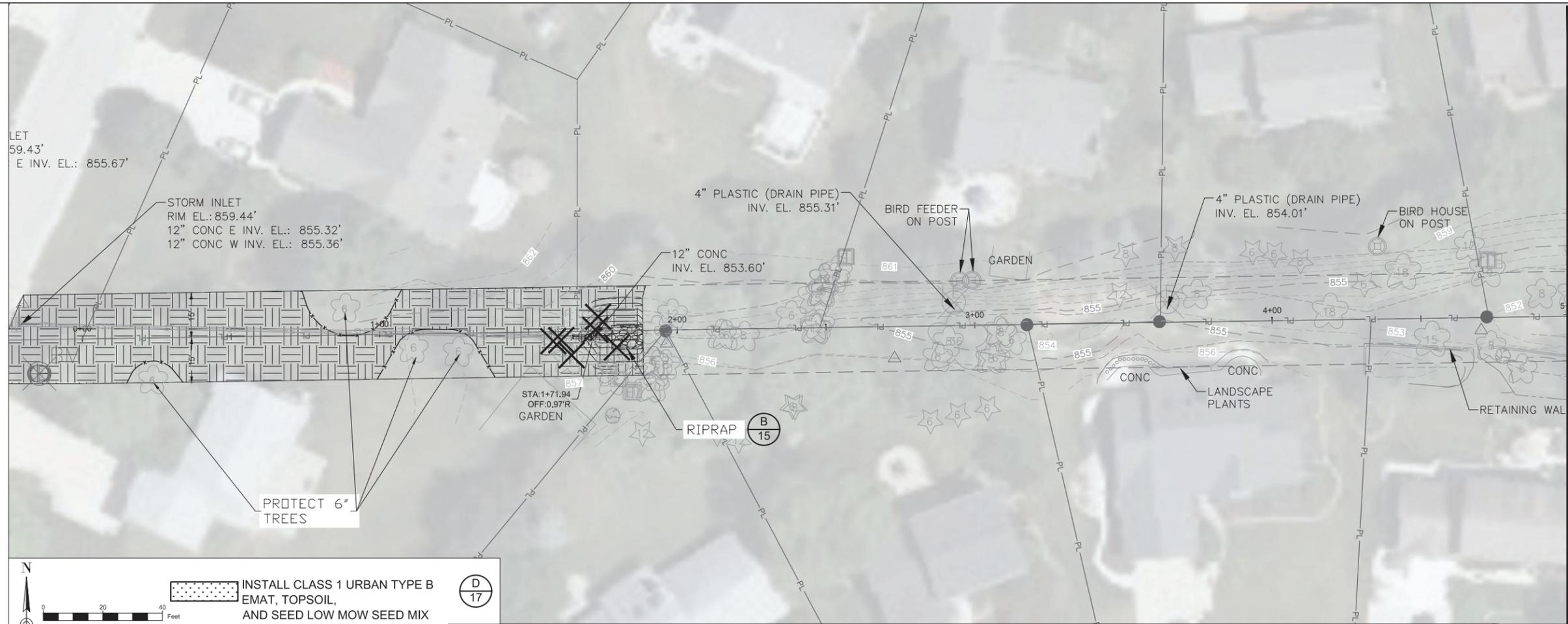
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SHEET TITLE
 LEGEND AND PROJECT
 INFORMATION

SHEET NUMBER
 2

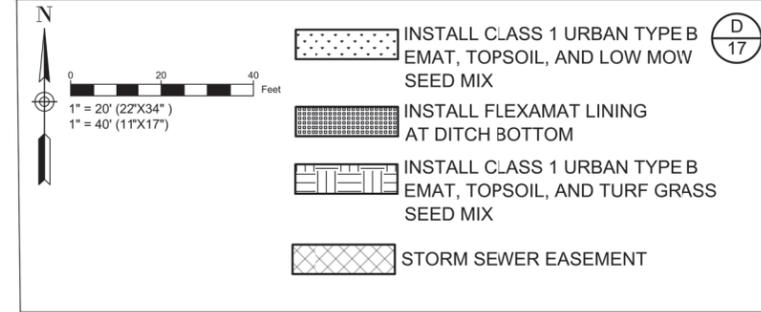
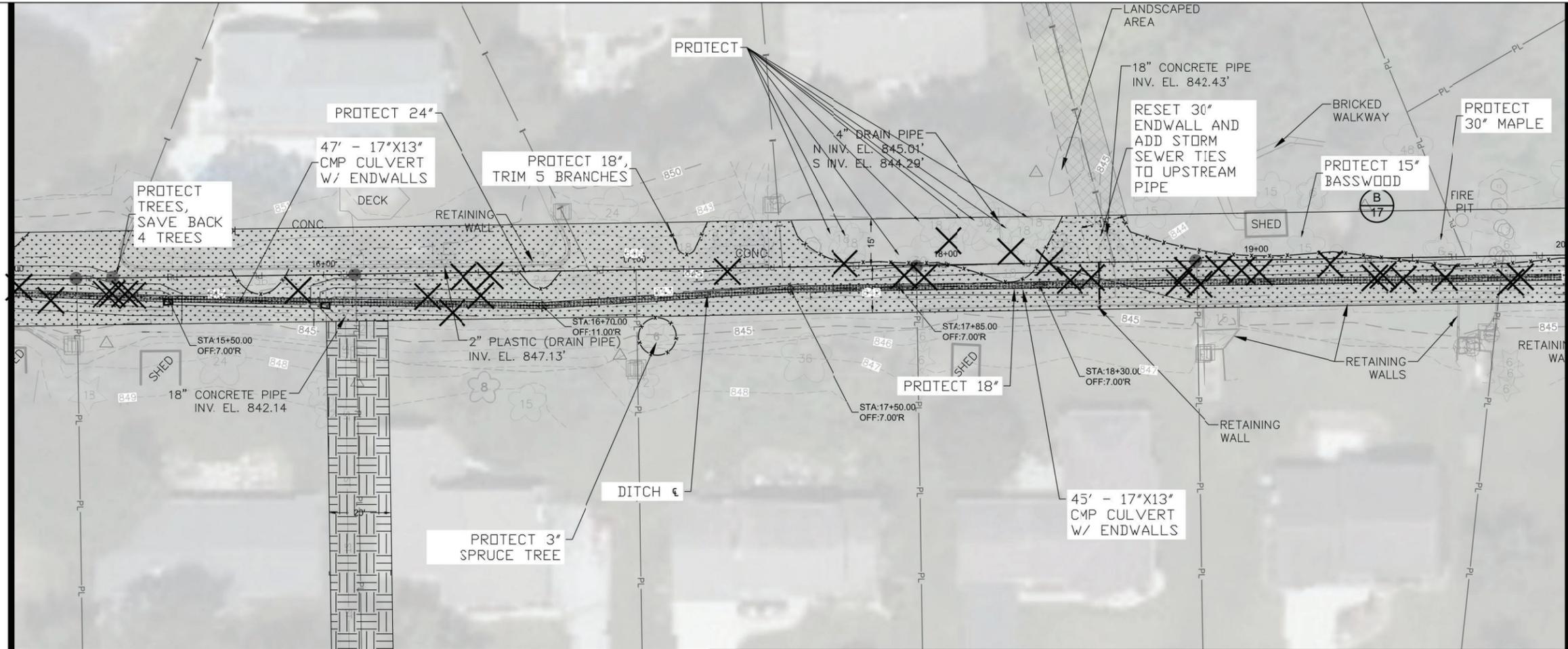
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MATCH LINE STA 15+00 (SEE SHEET 4)

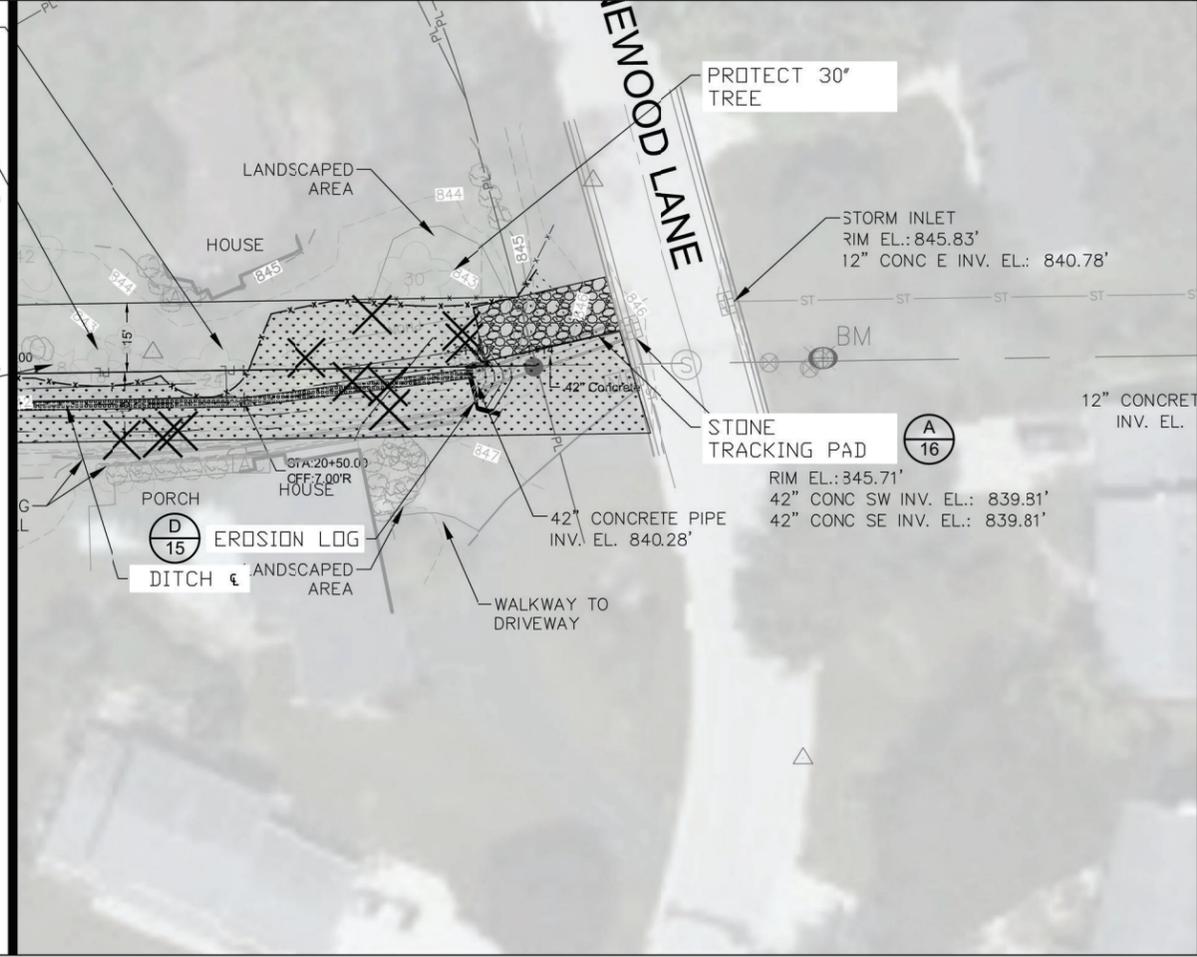
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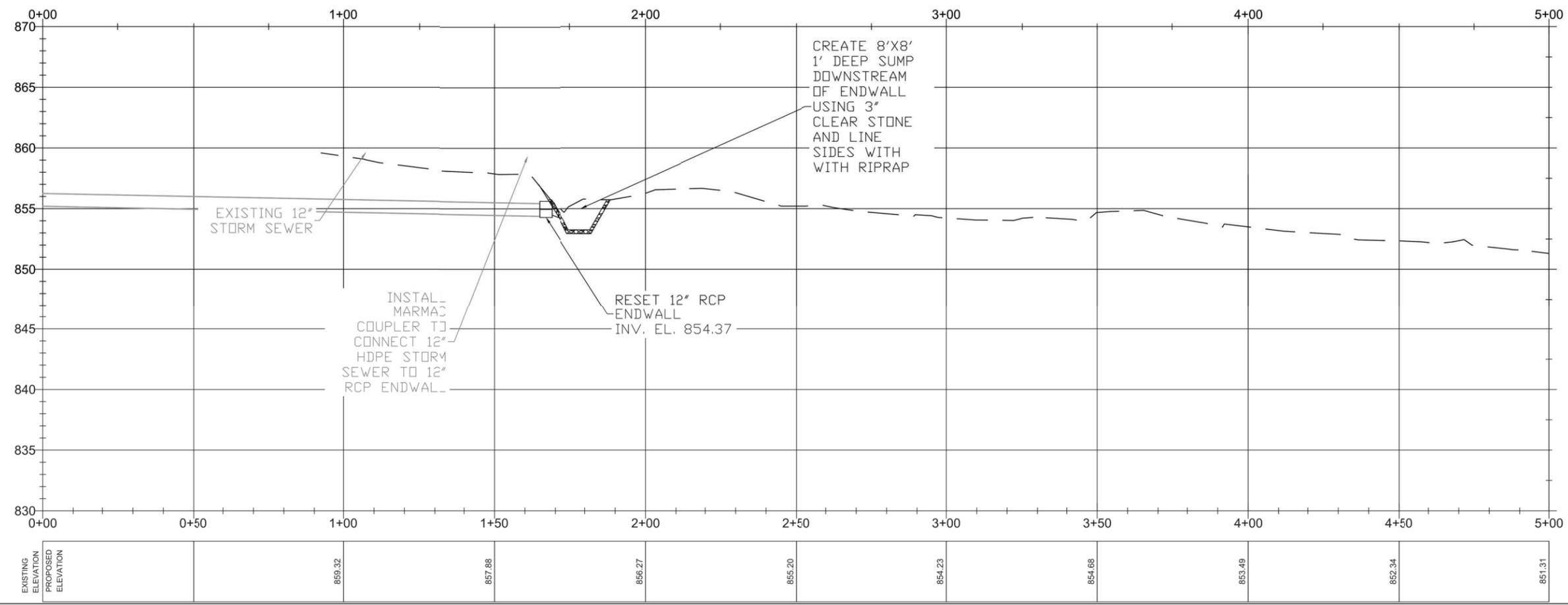
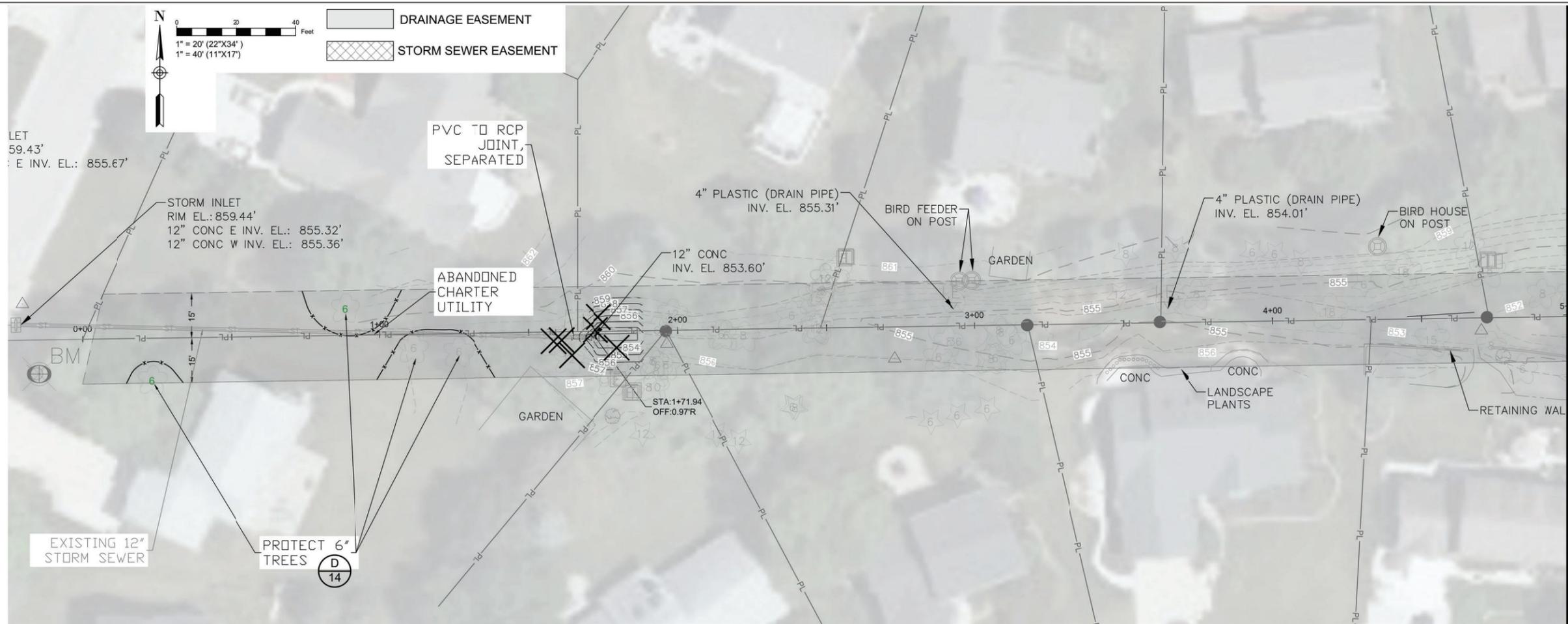
PROTECT 24" CUT AND REMOVE PORTION OF ROOT IN DRAINAGEWAY, CUT PERPENDICULAR TO ROOTS

PROTECT 18", CUT LOWER BRANCHES, CUT VINES, KEEP BANK

MATCH LINE STA 20+00 (SEE SHEET 5)



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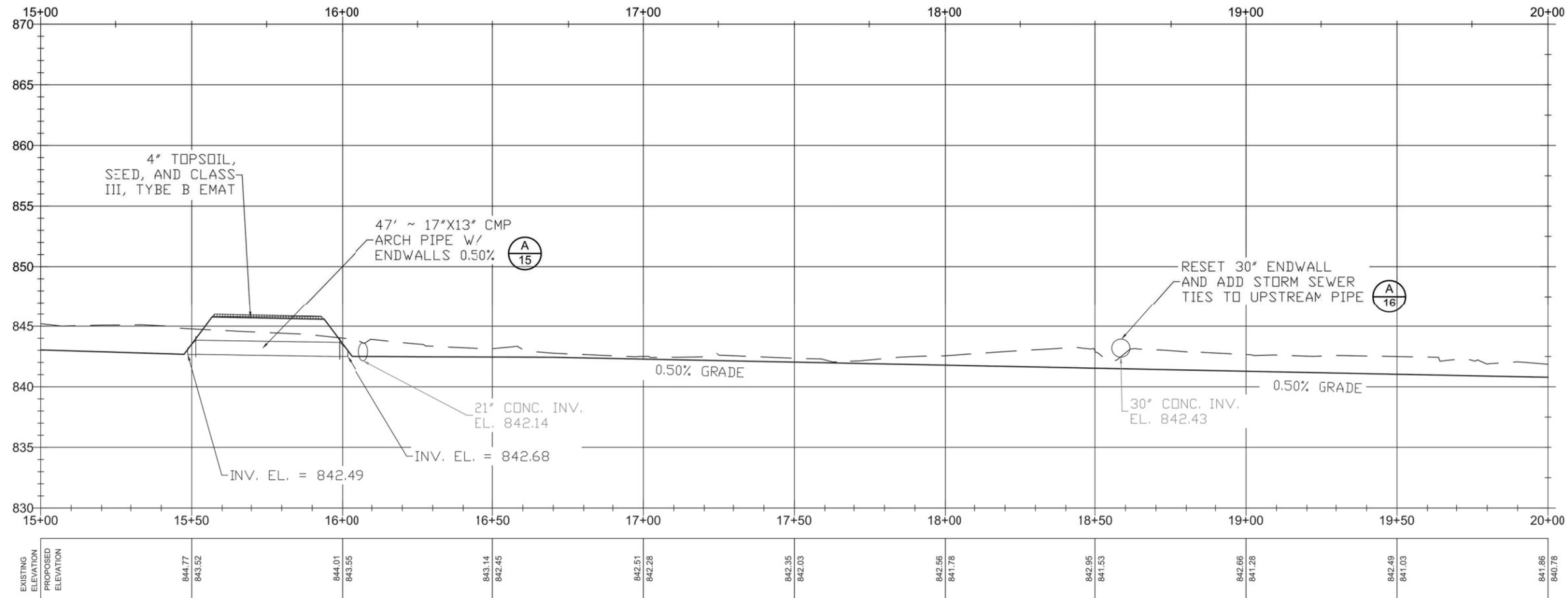
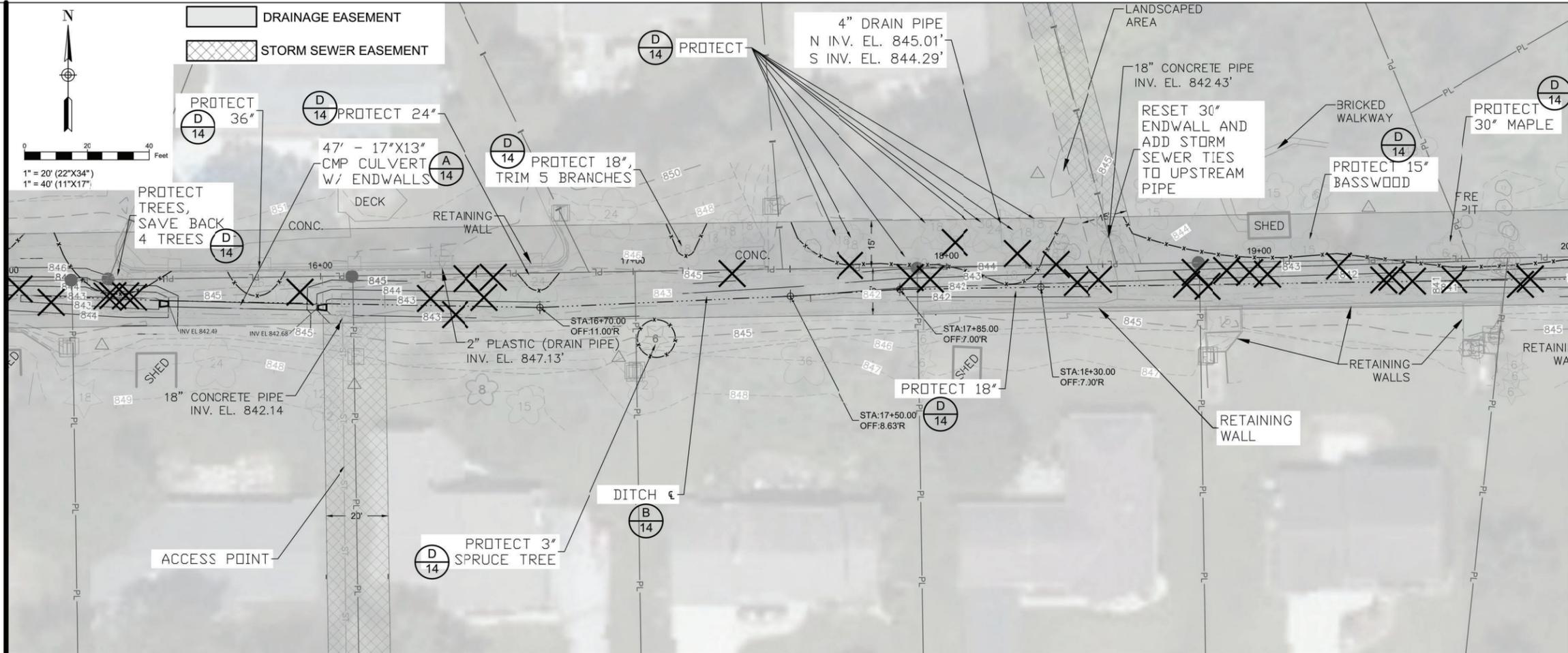
SHEET TITLE
 PROPOSED CONDITIONS

SHEET NUMBER
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MATCH LINE STA 15+00(SEE SHEET 6)

MATCH LINE STA 20+00(SEE SHEET 8)



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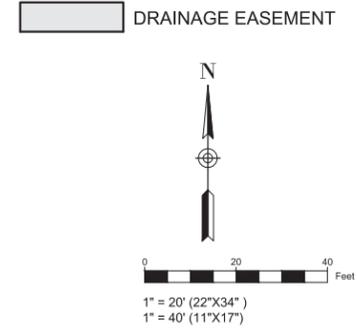
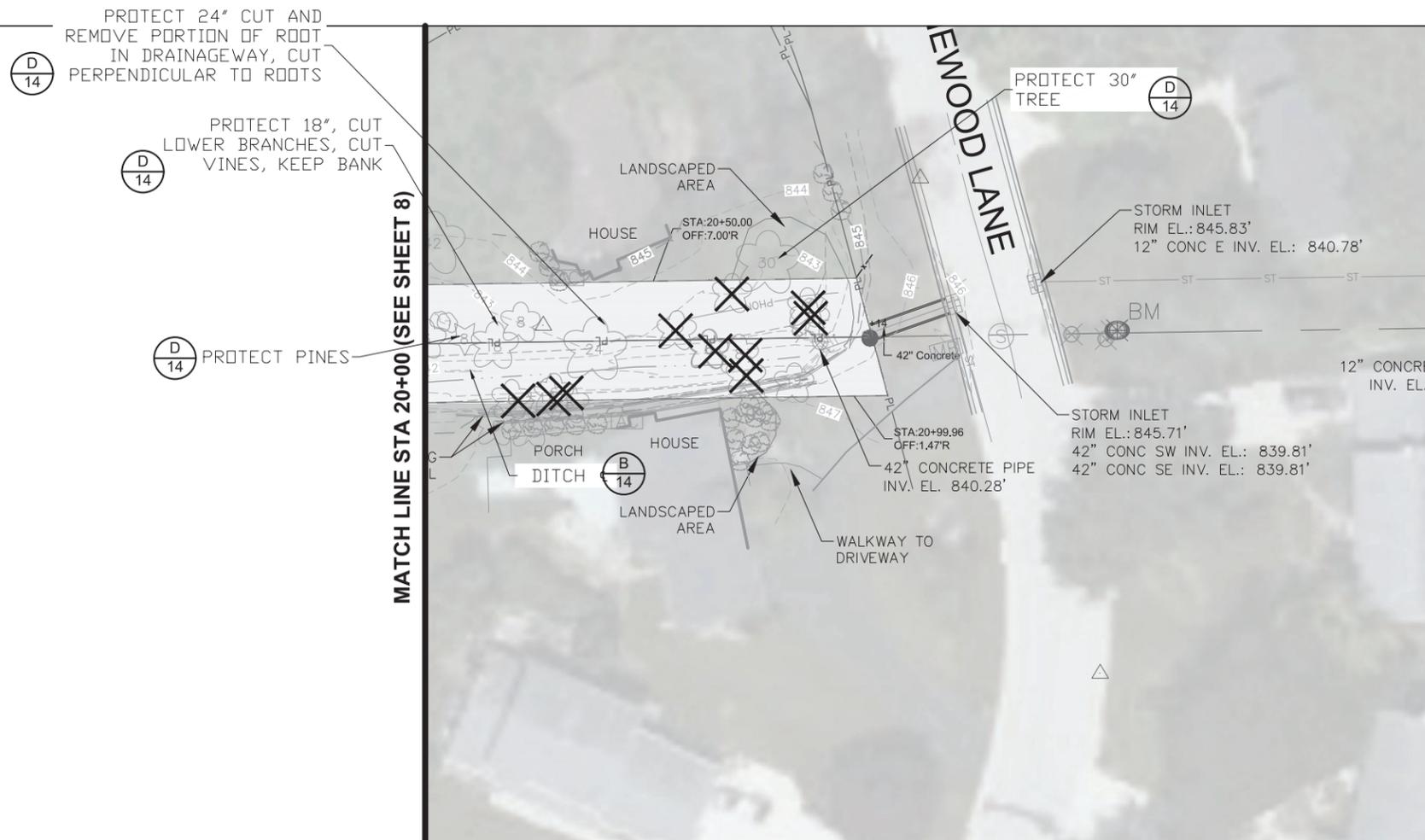
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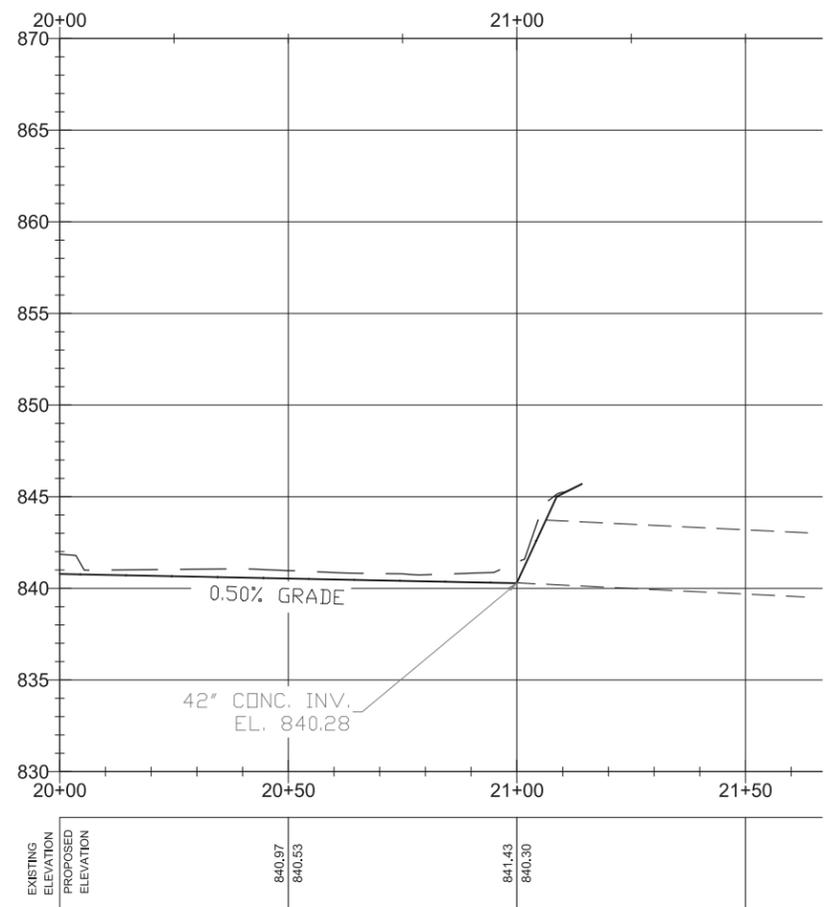
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SHEET NUMBER
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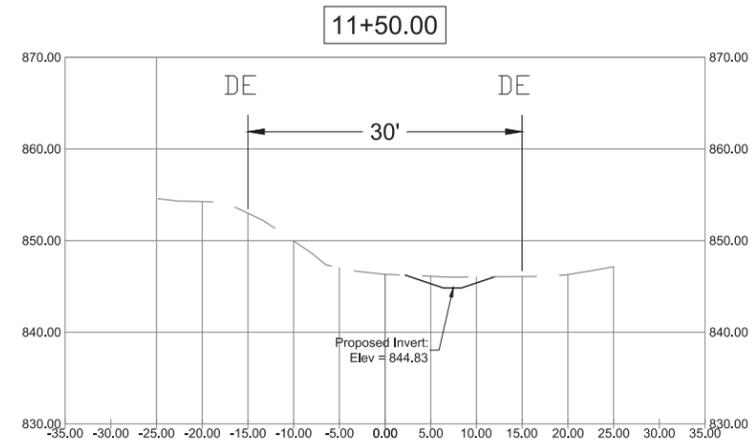
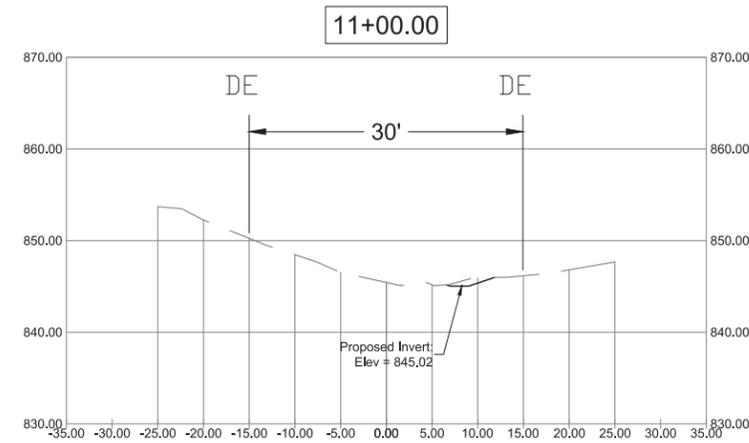
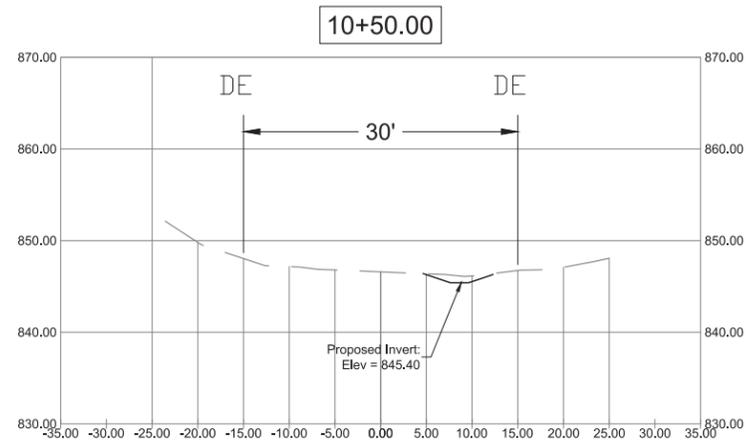
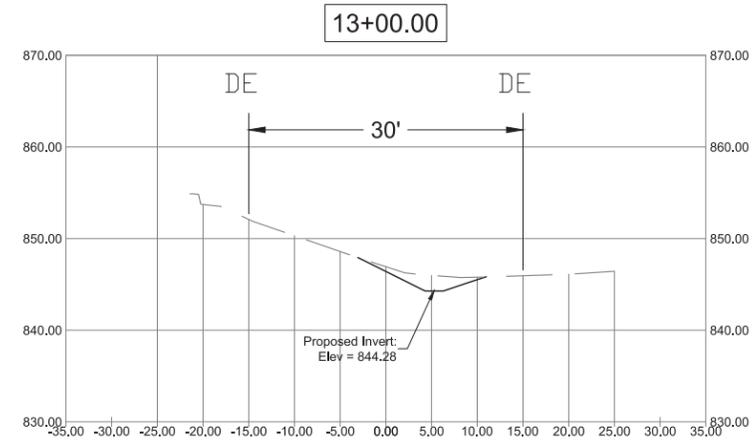
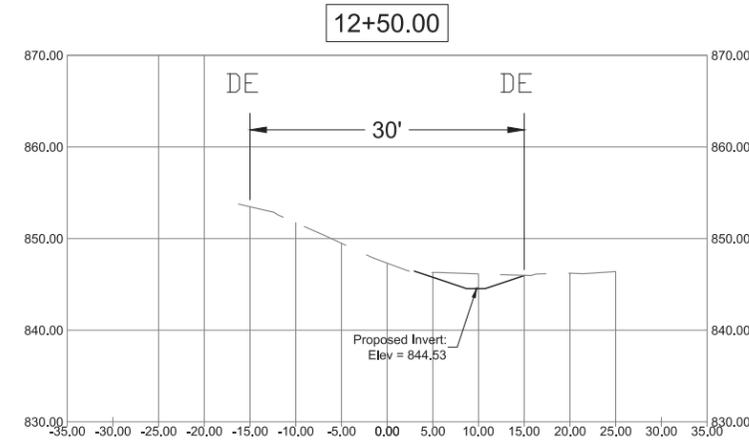
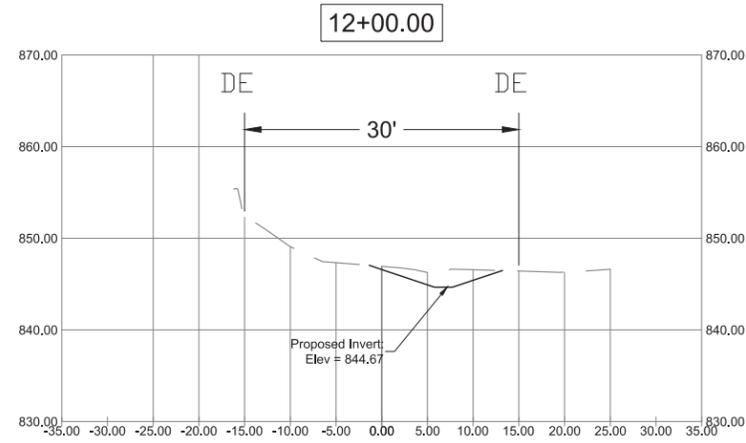
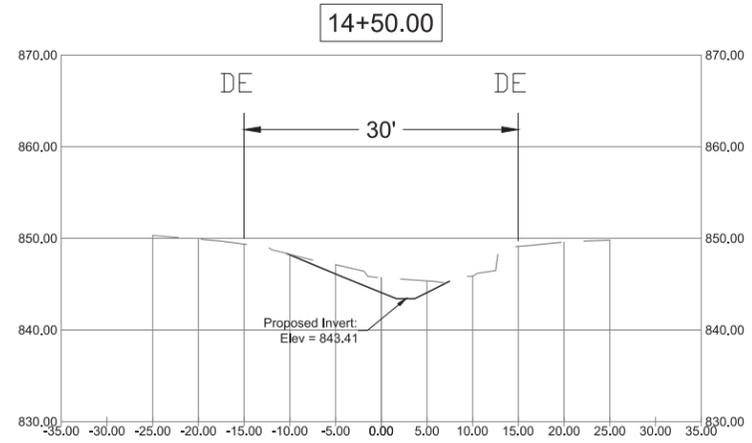
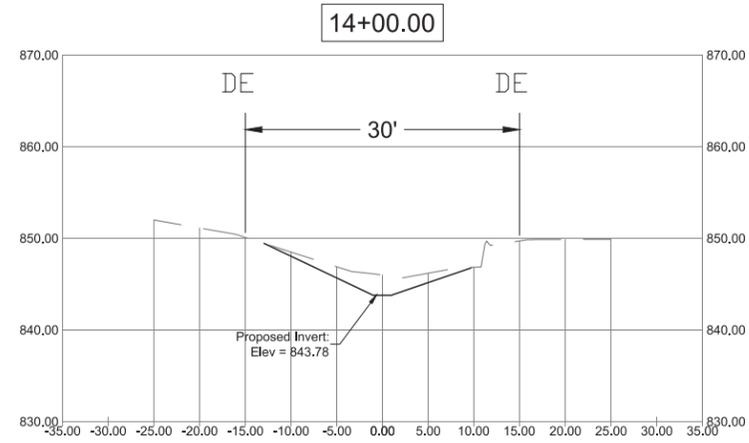
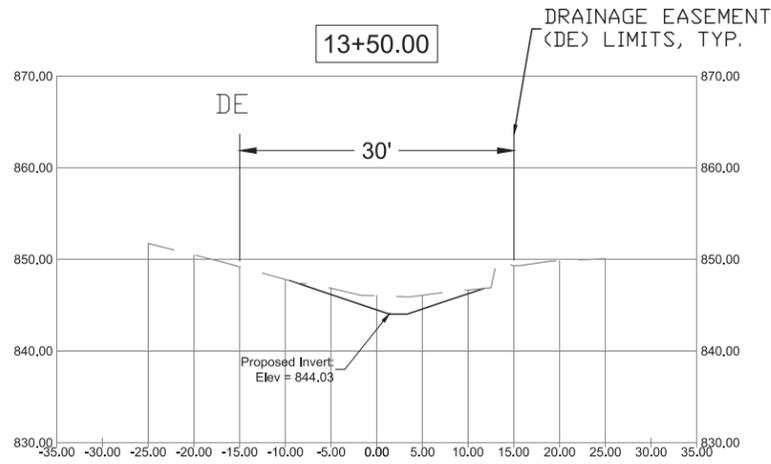
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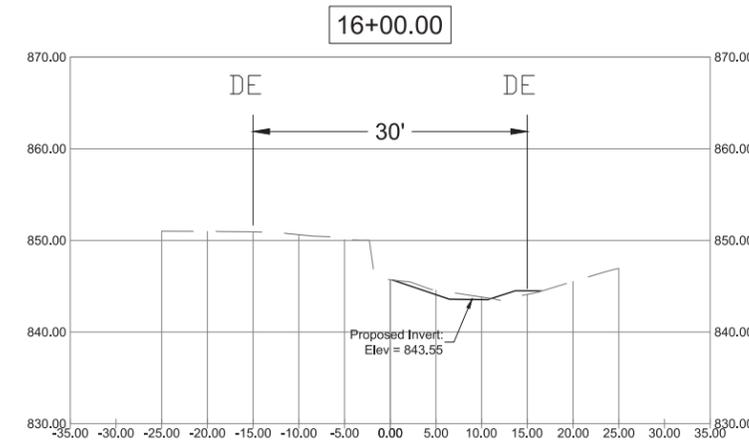
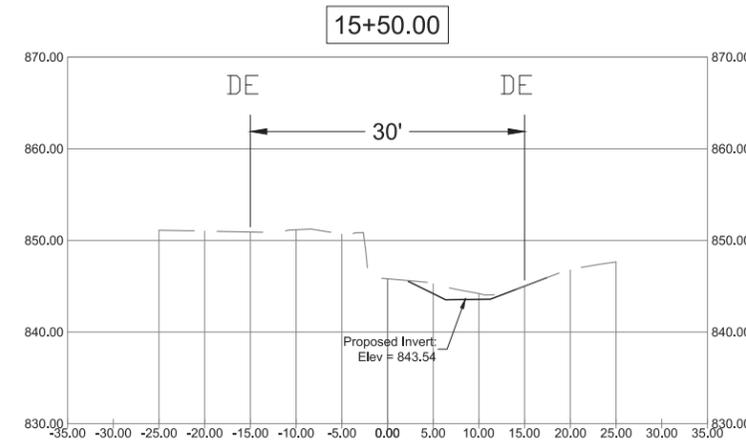
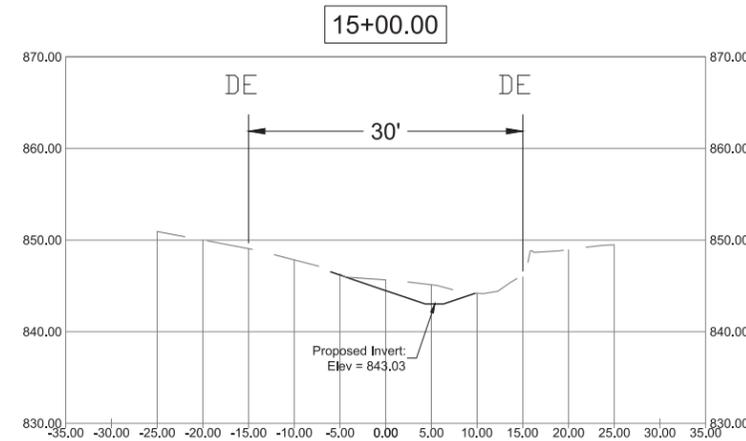
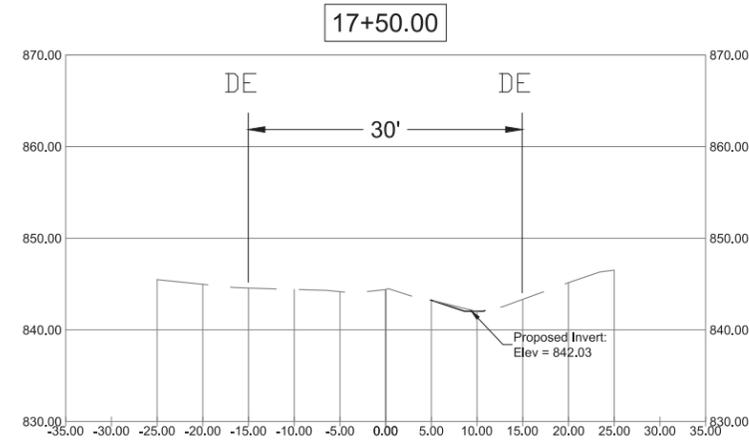
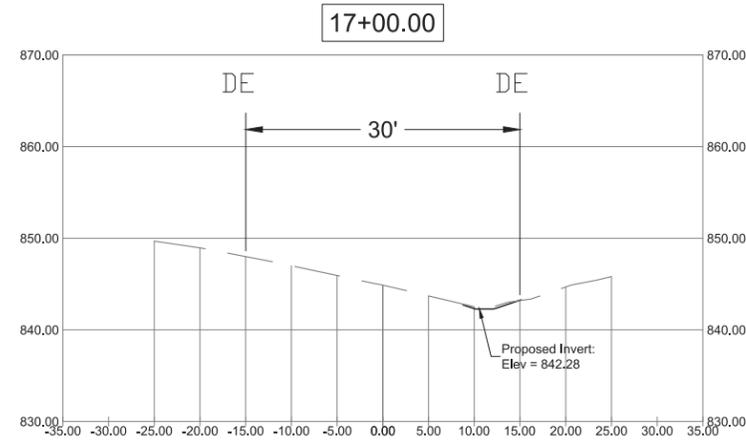
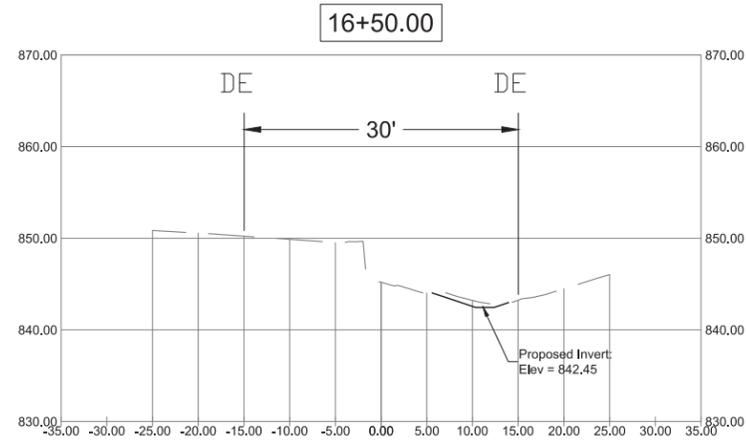
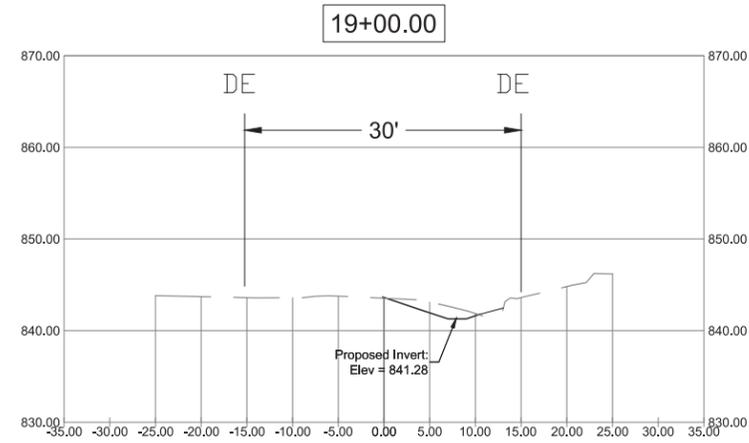
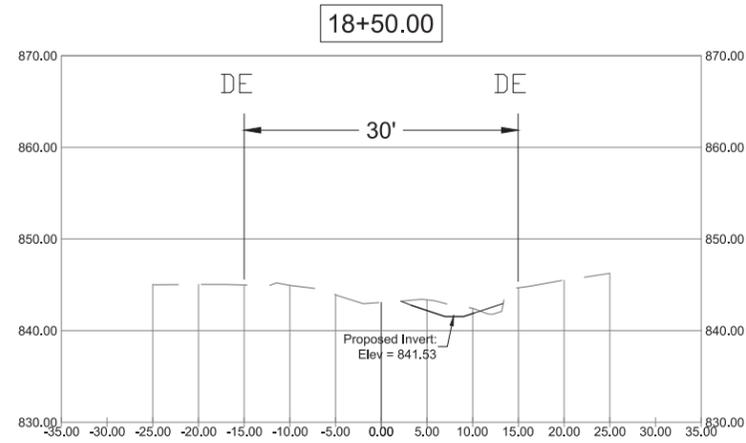
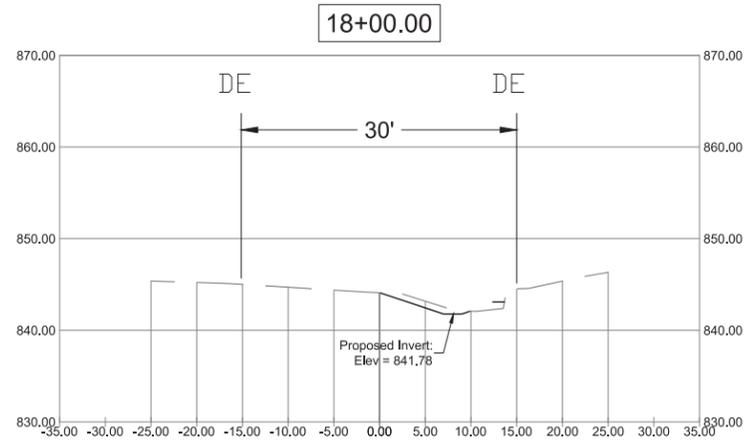
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 CROSS SECTIONS

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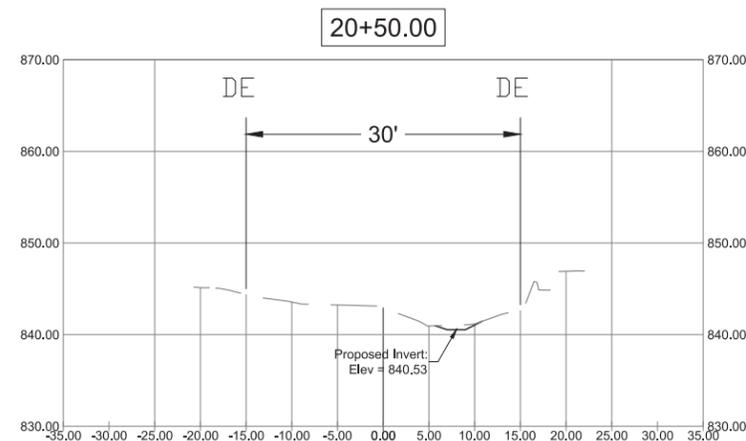
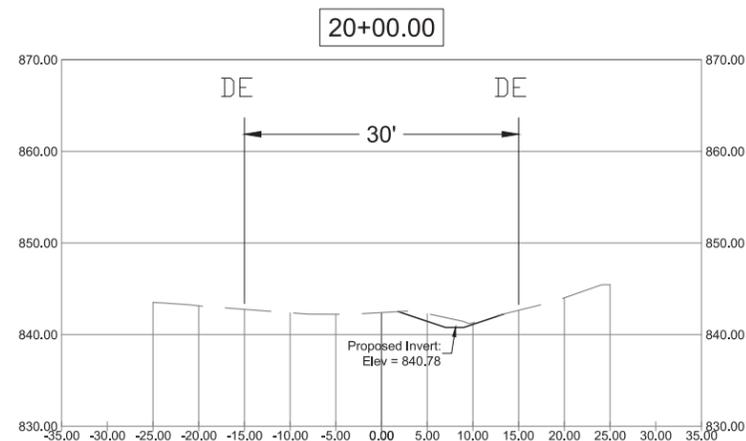
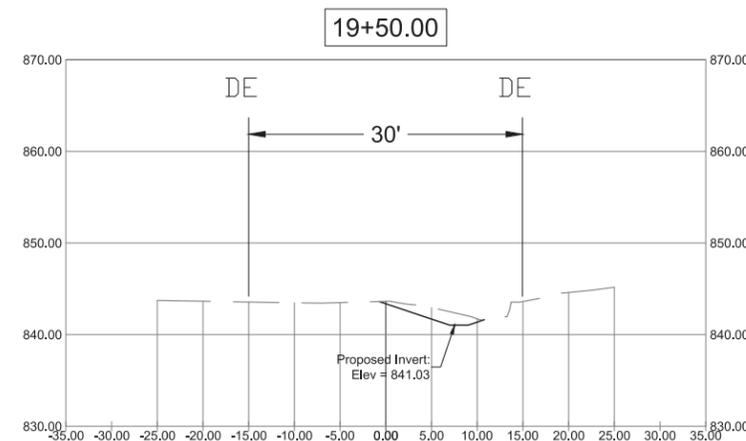
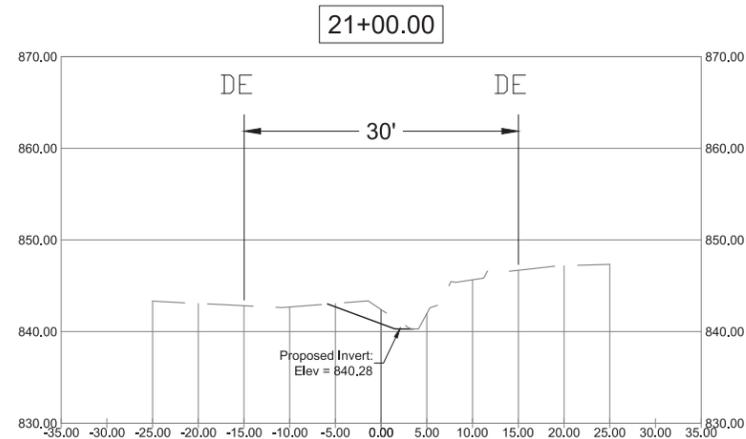
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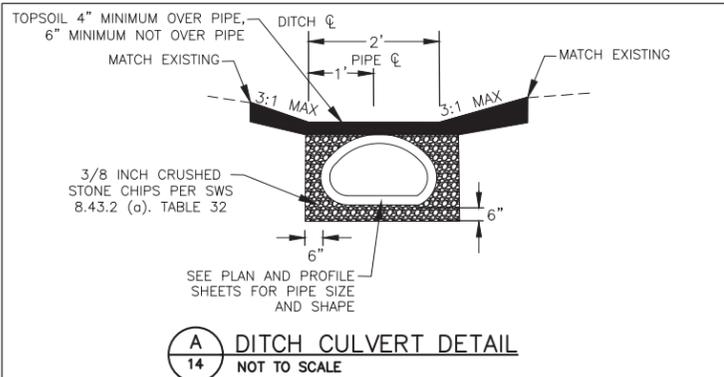
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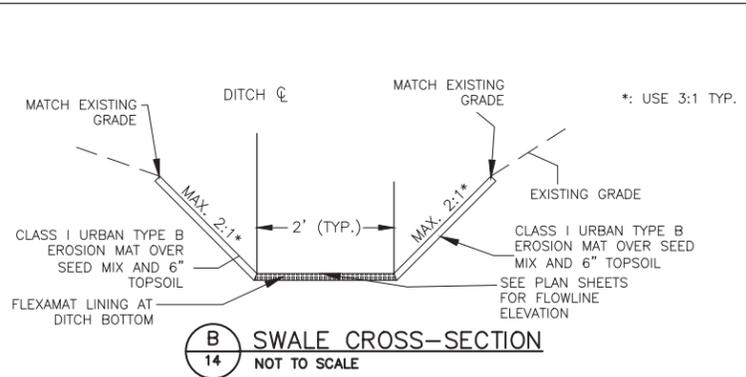
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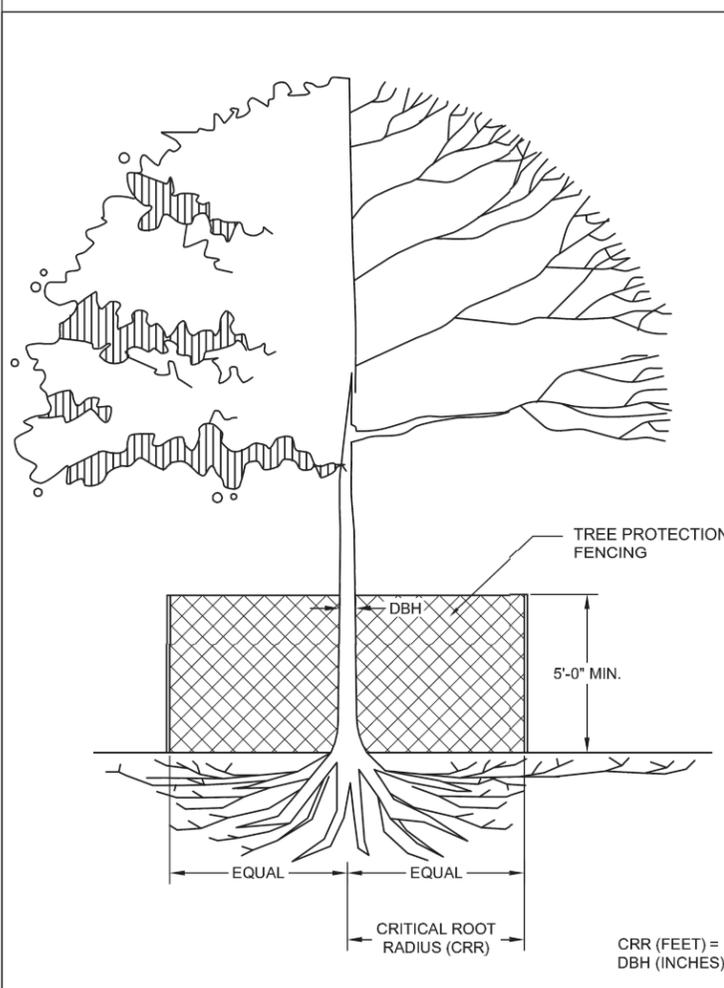




A DITCH CULVERT DETAIL
14 NOT TO SCALE

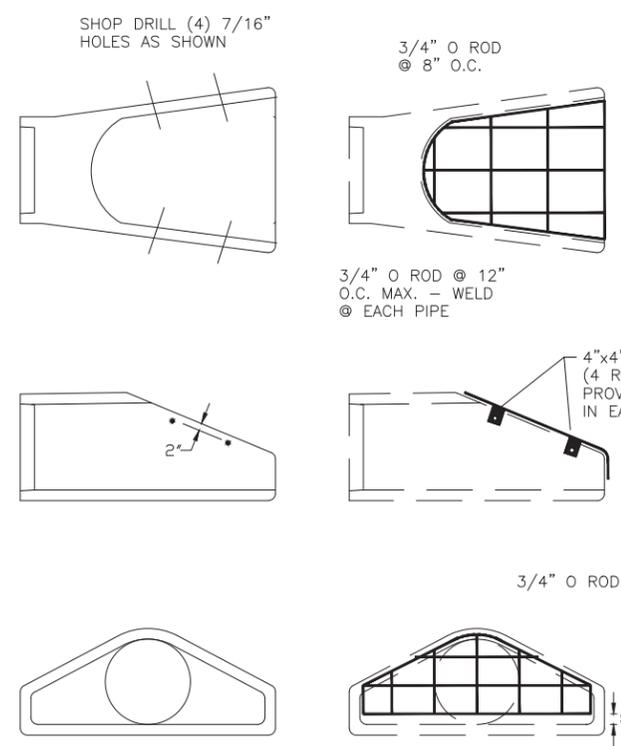


B SWALE CROSS-SECTION
14 NOT TO SCALE



D TREE PROTECTION DETAIL
14 NOT TO SCALE

- NOTES:
1. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS SHALL BE PROTECTED DURING CONSTRUCTION WITH TREE PROTECTION FENCING.
 2. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT. NO CONSTRUCTION MATERIALS, EQUIPMENT, OR SUPPLIES MAY BE STORED IN THE TREE PROTECTION AREA.
 3. SEE SPECIFICATIONS FOR MORE INFORMATION.
 4. TRUNK DIAMETER AT BREAST HEIGHT (DBH) MEASURED AT 4.5' ABOVE THE GROUND.
 5. TREE PROTECTION FENCE STAKES 4' O.C. MAX.



C END SECTION GRATE DETAIL (ALL END SECTIONS TO BE CONSTRUCTED WITH GRATES)
14 NOT TO SCALE

THE CONTRACTOR SHALL BOLT THE GRATE TO THE CONCRETE END WALL WITH FOUR 3/8" x 6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.

PAINTING SPECIFICATIONS
 THE PIPE GRATE SHALL RECEIVE THE FOLLOWING PREPARATION & PAINTING, SEE NOTES:
 FIRST COAT - RUST-OLEUM X-60 RED BARE METAL PRIMER OR EQUAL
 SECOND COAT - RUST-OLEUM 960 ZINC CHROMATE PRIMER OR EQUAL
 THIRD COAT - RUST-OLEUM 1282 HIGH GLOSS & METALLIC FINISH OR EQUAL.
 NOTES: 1. BARE SURFACES - AFTER THROUGH SCRAPING, WIRE BRUSHING & CLEANING, APPLY THE THREE COAT SYSTEM LISTED.
 2. EACH COAT AN OVERALL COAT
 3. ALLOW 24-48 HOURS DRYING TIME BETWEEN COATS.

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DETAILS SHEET

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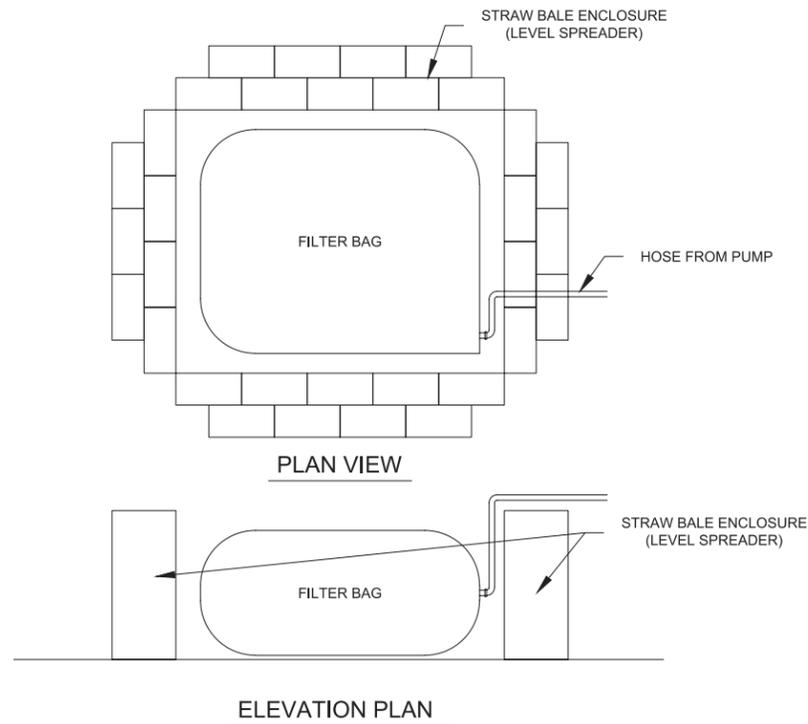


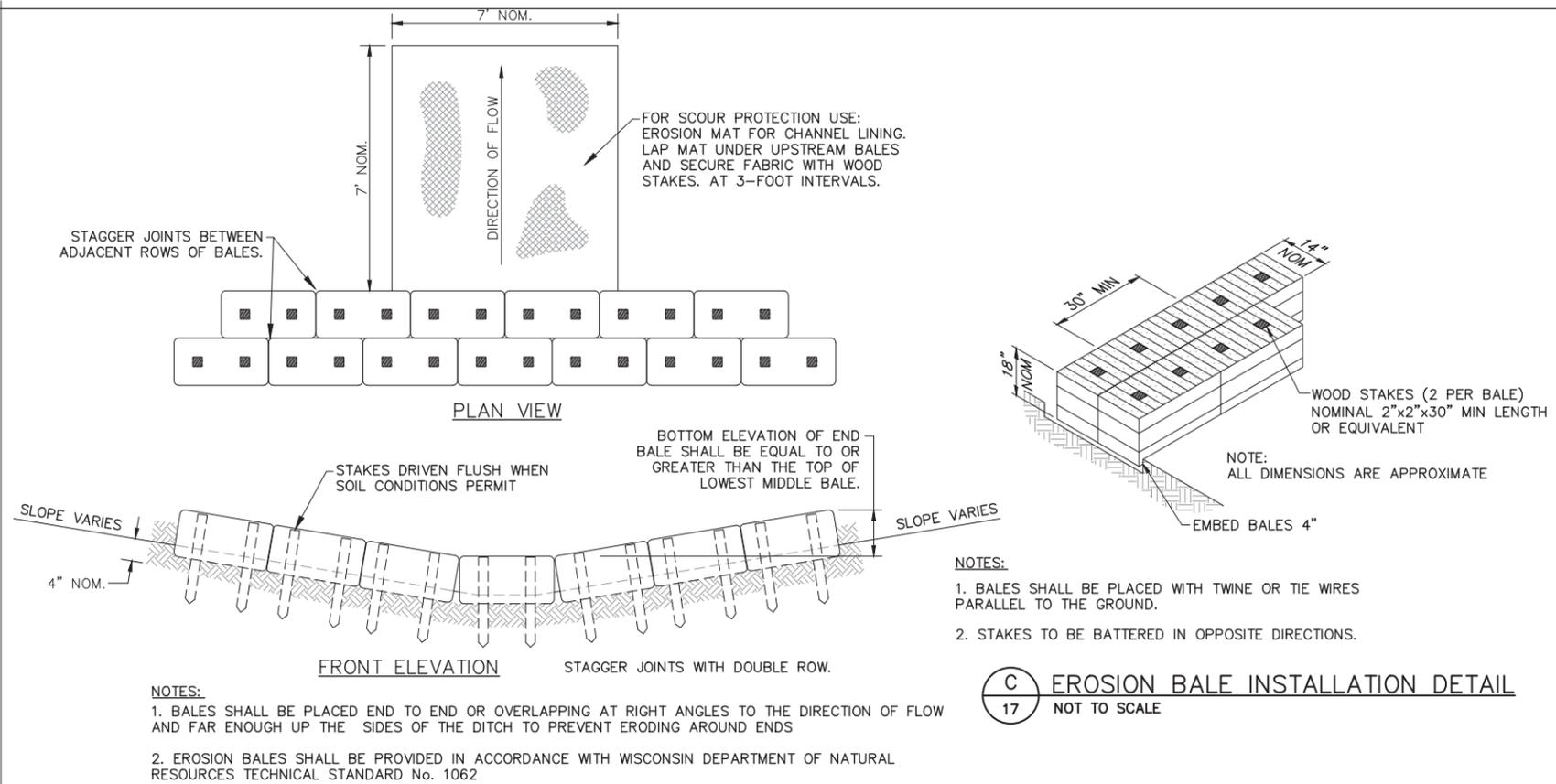
TABLE 1: PROPERTIES FOR GEOTEXTILE BAGS

PROPERTY	TEST METHOD	TYPE I VALUE	TYPE II VALUE
MAXIMUM APPARENT OPENING SIZE	ASTM D-4751	0.212 MM	0.212 MM
GRID TENSILE STRENGTH	ASTMD-4632	300 LBS.	300 LBS.
MULLEN BURNT	ASTM D-3766	350 PSI	350 PSI
PERMEABILITY	ASTM D-4481	0.28 CM/SEC	0.2 CM/SEC
FABRIC	NOMINAL REPRESENTATIVE WEIGHT	8 OZ.	12 OZ.

NOTES:

- ALL PUMPED EFFLUENT FROM DEWATERING OPERATIONS (TRENCH OR OTHERWISE) SHALL BE DISCHARGED TO A GEOTEXTILE FILTER BAG CONFORMING TO WDNR CONSERVATION PRACTICE STANDARD 1061.
- THE GEOTEXTILE FILTER BAG SHALL BE PLACED ON VEGETATED/STABILIZED GROUND AND DISCHARGED TO A SEDIMENT BASIN OR TRAP. SHOULD NO BASIN EXIST, THE GEOTEXTILE BAG SHALL BE PLACED ON FILTER FABRIC AND SURROUNDED BY A SEDIMENT BALE BARRIER CONFORMING TO CONSERVATION PRACTICE STANDARD 1055. THE FILTER FABRIC SHALL BE BROUGHT UP THE SIDES AND OVER THE TOP OF THE HAY BALES AND SECURED.
- DISCHARGE SHALL NOT BE ALLOWED TO FLOW OVER UNPROTECTED GROUND.
- IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS PRIOR TO SEDIMENT REMOVAL.
- CLAMP PUMP DISCHARGE HOSE SECURELY INTO FILTER BAG
- LIMIT PUMPING RATE TO 1/2 THE MANUFACTURES MAXIMUM PUMPING RATE.
- WHEN SEDIMENTS FILL 1/2 THE VOLUME OF THE FILTER BAG, IMMEDIATELY REMOVE THAT BAG FROM SERVICE, PROPERLY DISPOSE OF SPENT BAGS WITH THEIR SEDIMENTS.

A
 17
 NOT TO SCALE
DEWATERING USING SEDIMENT FILTER BAG



B
 17
 NOT TO SCALE
EROSION BALES ACROSS SWALE BOTTOM DETAIL

C
 17
 NOT TO SCALE
EROSION BALE INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD NO. 1053 (CHANNEL EROSION MAT).

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

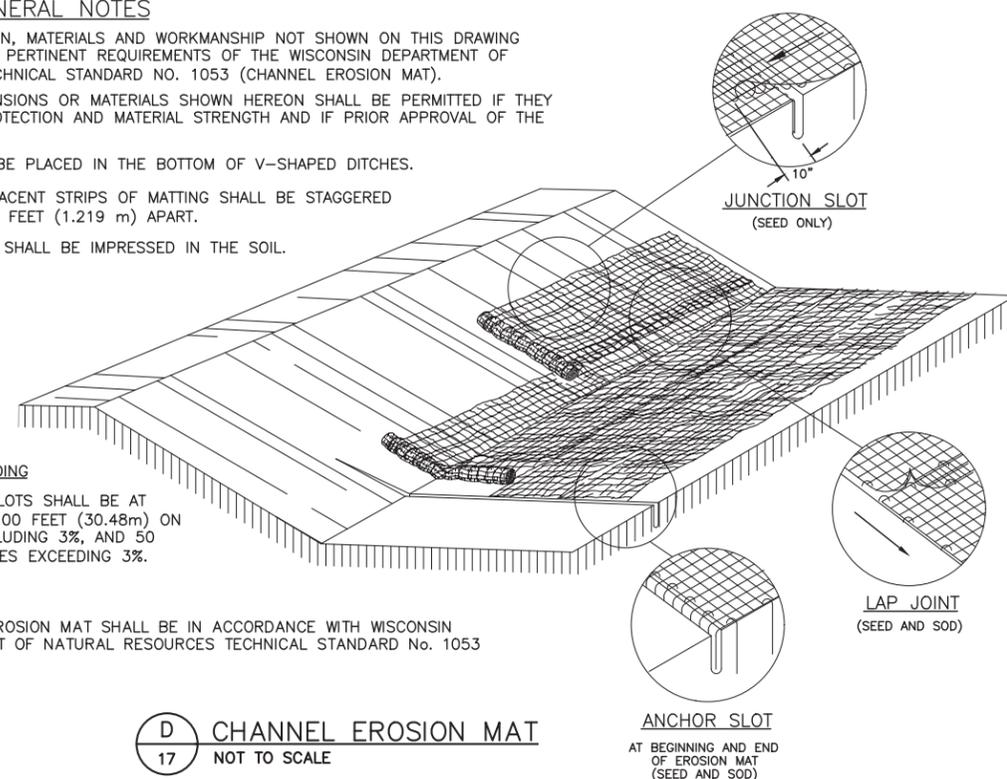
JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 (FOUR) FEET (1.219 m) APART.

EDGES OF EROSION MAT SHALL BE IMPRESSED IN THE SOIL.

EROSION MAT OVER SEEDING

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET (30.48m) ON GRADES UP TO AND INCLUDING 3%, AND 50 FEET (15.24m) ON GRADES EXCEEDING 3%.

NOTE:
 CHANNEL EROSION MAT SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD No. 1053



D
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 NOT TO SCALE
CHANNEL EROSION MAT

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 LAST MODIFIED: 12/01/2024 10:00:00 AM
 USER: JLM
 PLOT DATE: 12/01/2024 10:00:00 AM
 PLOT SCALE: 1:1
 PLOT SHEET: 16 OF 16