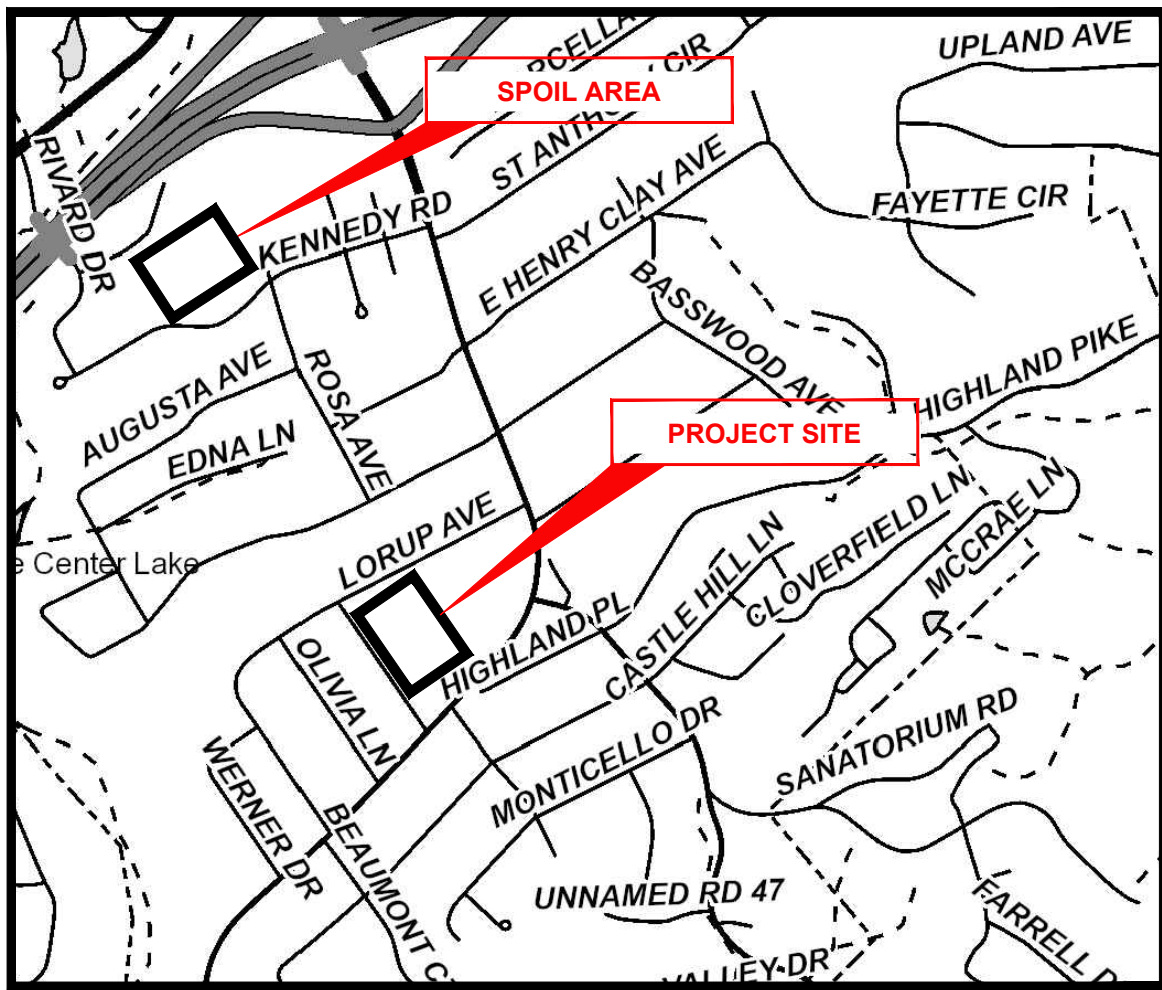




VICINITY MAP

CITY OF FORT WRIGHT

KENTON COUNTY, KENTUCKY

FORT WRIGHT SALT STORAGE

BUILDING PHASE I - SITE PREP

39973-01

INDEX OF SHEETS		
NO.	DWG NAME	SHEET NAME
1	TTL	TITLE
2	NOTES	NOTES & LEGEND
3	DET1	CONSTRUCTION DETAILS 1
4	DET2	CONSTRUCTION DETAILS 2
5	DET3	EROSION & SEDIMENTATION CONTROL DETAILS
6	C01	EXISTING CONDITION & DEMO PLAN
7	C02	SITE & GRADING PLAN
8	C03	STORM SEWER PLAN
9	C04	STORM SEWER PROFILES

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300 BUTTERMILK PIKE, SUITE 332
FORT MITCHELL, KENTUCKY 41017
TEL: (609) 525-0944
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CITY OF FORT WRIGHT OFFICIALS	
MAYOR	DAVE HATTER
CITY ADMINISTRATOR	JILL C. BAILEY
CITY CLERK	KERRIE HOLLAND
CITY COUNCIL MEMBERS	
	SCOTT WALL
	BERNIE WESSELS
	MARGIE WITT
	JUSTIN WEBER
	JASON COLLINS
	DONNA ROSS
CITY ATTORNEY	JOHN S. BROOKING
PUBLIC WORKS DIRECTOR	JEFF BETHELL



SITE MAP

K.T.C. SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY DEPARTMENT OF TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON CAMPBELL COUNTY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY VERDANTAS, LLC.



FORT WRIGHT SALT STORAGE
BUILDING PHASE 1 - SITE PREP

CITY OF FORT WRIGHT
KENTON COUNTY, KY

TITLE SHEET

PROJECT NO.	
39973-01	
DISCIPLINE	
CIVIL	
SHEET NAME	
TTL	
SHEET	OF
1	9

MARTIN P. HELLMANN

P.E. #27046

[illegible]

- ① ITEM 402/403 - 2" ASPHALT CONCRETE SURFACE COURSE
- ② ITEM 402/403 - 5" ASPHALT CONCRETE INTERMEDIATE COURSE
- ③ ITEM 402/403 - 5" ASPHALT CONCRETE BASE COURSE
- ④ ITEM 302 - 24 - 33" CRUSHED STONE BASE, (LESS THAN 7% FINES) COMPACTED TO 100% (ASTM D698).
- ⑤ ITEM SPL - TENSAR HX-165 GEOGRID OR APPROVED EQUAL PLACED AT BOTTOM AND MIDPOINT OF STONE BASE
- ⑥ ITEM SPL - MIRAFI 160N OR EQUIVALENT NONWOVEN GEOTEXTILE SEPARATION FABRIC, WRAPPED AROUND TRENCH DRAINS, LAPPED 12" ONTO ITSELF. (INCIDENTAL TO TRENCH DRAIN ITEM)
- ⑦ ITEM 302 - CLEAN NO. 57 CRUSHED STONE (LESS THAN 3% FINES), COMPACTED IN 6" TO 8" LIFTS TO 80% RELATIVE DENSITY (ASTM D4253, D4254) W/A VIBRATORY COMPACTOR. (INCIDENTAL TO TRENCH DRAIN ITEM)
- ⑧ ITEM 214 - WOVEN TEXTILE, MIRAFI 600X OR EQUIVALENT. PLACED CONTINUOUSLY BETWEEN EDGES OF TRENCH DRAIN. ALL OVERLAPS TO BE 18" MIN.
- ⑨ ITEM 207 - SUBGRADE RESHAPING & COMPACTING. SUBGRADE SHALL BE TRIMMED AND ROLLED SMOOTH FOR DRAINAGE SO GEOTEXTILE CAN BE SPREAD SMOOTH, TAUT AND EVEN BEFORE STONE IS PLACED.

CONCRETE SIDEWALK W/ INTEGRAL CURB REPLACEMENT

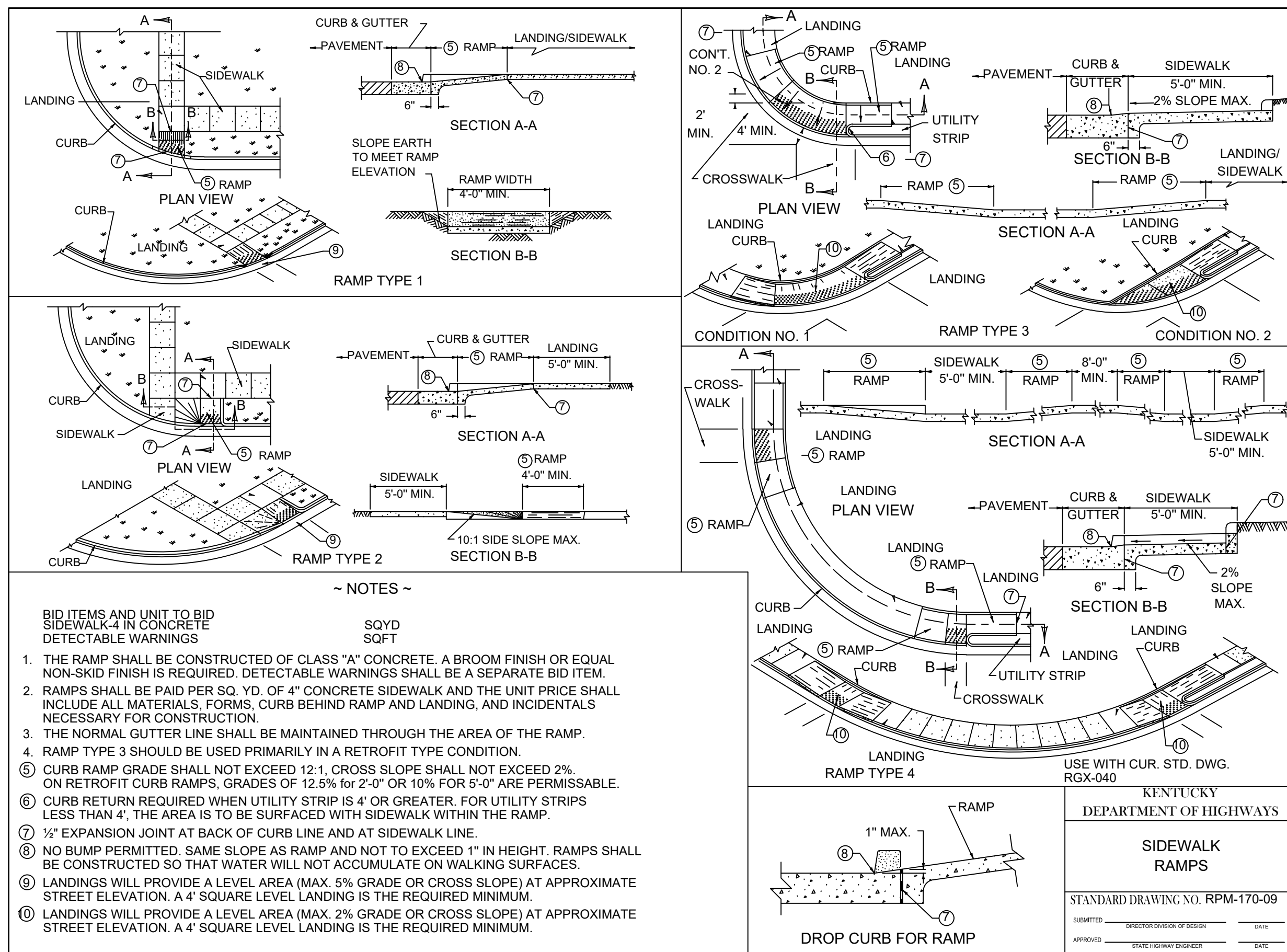
- ① SAWCUT AND REMOVE EXISTING SIDEWALK
- ② ITEM 207 - COMPACTED SUBGRADE (INCIDENTAL TO CONCRETE SIDEWALK)
- ③ ITEM SPL - 4" CONCRETE SIDEWALK WITH INTEGRAL CURB PER KENTON COUNTY SUBDIVISION REGULATIONS
- ④ TOOLED EDGE
- ⑤ TOOLED CONTRACTION JOINT
- ⑥ $\frac{3}{4}$ " PREMOLED EXPANSION JOINT SPACED AS NOTED OR AT RIGID STRUCTURES
- ⑦ APPLY HOT ASPHALT SEALER WHERE ASPHALT MEETS CURB. INCIDENTAL TO SIDEWALK.

CONCRETE SIDEWALK DETAIL

- ① ITEM 207 - COMPACTED SUBGRADE (INCIDENTAL TO CONCRETE SIDEWALK)
- ② ITEM SPL - 4" CONCRETE SIDEWALK PER KENTON COUNTY SUBDIVISION REGULATIONS
- ③ TOOLED EDGE
- ④ TOOLED CONTRACTION JOINT
- ⑤ $\frac{1}{2}$ " PREMOLDED EXPANSION JOINT

ASPHALT PAVEMENT APRON TYPICAL SECTION
N.T.S.

- ① ITEM 402/403 - 2" ASPHALT CONCRETE SURFACE COURSE
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- ⑧ ITEM 214 - WOVEN TEXTILE, MIRAFI 600X OR EQUIVALENT. PLACED CONTINUOUSLY BETWEEN EDGES OF TRENCH DRAIN. ALL OVERLAPS TO BE 18" MIN.
- ⑨ ITEM SPL - APPLY ASPHALT SEALER AT INTERFACE BETWEEN ASPHALT AND CONCRETE WHERE APPLICABLE (INCIDENTAL TO ITEM 402/403)
- ⑩ ITEM 207 - SUBGRADE RESHAPING & COMPACTING. SUBGRADE SHALL BE TRIMMED AND ROLLED SMOOTH FOR DRAINAGE SO GEOTEXTILE CAN BE SPREAD SMOOTH, TAUT AND EVEN BEFORE STONE IS PLACED.



3'X3' STORM INLET DETAIL
SCALE: NONE



2'X2' STORM INLET DETAIL
SCALE: NONE



DEFINITION
A TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A WATERCOURSE OR AT OTHER SUITABLE LOCATION TO RETAIN SEDIMENT AND OTHER WATERBORNE DEBRIS.

SCOPE
THIS STANDARD ESTABLISHES MINIMUM ACCEPTABLE QUALITY FOR THE DESIGN AND CONSTRUCTION OF TEMPORARY SEDIMENT BASINS FORMED BY AN EMBANKMENT, EXCAVATION OR A COMBINATION OF EMBANKMENT AND EXCAVATION. THE STANDARD IS LIMITED TO SITES WHERE:

- PURPOSE**
TEMPORARY SEDIMENT BASINS ARE USED AS A MEANS OF TRAPPING AND STORING SEDIMENT FROM ERODING AREAS IN ORDER TO PROTECT DOWNSTREAM AREAS FROM DAMAGE RESULTING FROM SEDIMENTATION AND WATERBORNE DEBRIS.

COMPLIANCE WITH LAWS AND REGULATIONS
DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

MULTIPLE USE
SEDIMENT BASINS MAY BE DESIGNED AS PERMANENT STRUCTURES TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED. SITE CONDITIONS MAY MAKE THE USE OF THESE STRUCTURES DESIRABLE FOR STORMWATER DETENTION PURPOSES. WHEREVER THESE STRUCTURES ARE TO BECOME PERMANENT, OR IF THEY EXCEED THE SIZE LIMITATIONS OF THE DESIGN CRITERIA, THEY MUST BE DESIGNED AS PERMANENT PONDS BY A QUALIFIED PROFESSIONAL ENGINEER. PERMANENT PONDS ARE BEYOND THE SCOPE OF THESE STANDARDS AND SPECIFICATIONS. THE PERMANENT STRUCTURES MUST BE SUBMITTED WITH CONSTRUCTION DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE CITY ENGINEER.

STORM DRAIN INLET PROTECTION

PURPOSE
TO PREVENT SEDIMENT FROM ENTERING THE STORM DISCHARGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF
THE DISTURBED DRAINAGE AREA. DIFFERENT TYPES OF STRUCTURES ARE APPLICABLE TO DIFFERENT CONDITIONS.

1. SANITATION DISTRICT NO. 1 IS TO BE CONTACTED 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY AT 859-578-6892

4. AN AMENDMENT OF THE SWPPP IS REQUIRED WHENEVER A CHANGE IN DESIGN, CONSTRUCTION, AND OPERATION OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS, OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF THE SWPPP.

6. CONSTRUCTION SEQUENCE
- ALL PERMITSLET SILT, INLET, INLET PROTECTION AND OTHER EROSION CONTROLS SHALL BE IN PLACE BEFORE ANY OTHER EARTH MOVING ACTIVITIES BEGIN.
 - THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THE AREAS PLANNED FOR EARTH MOVING.
 - REMOVE TOPSOIL, STOCKPILE IT, AND INSTALL SILT FENCE AROUND PERIMETER.
 - SEED SOIL STOCKPILE WITH PERENNIAL RYE GRASS AND MULCH WITH STRAW IF NOT TO BE DISTURBED FOR MORE THAN 21 DAYS.
 - CONSTRUCT DETENTION BASIN AND CONTROL STRUCTURE. DETENTION BASIN SHALL BE USED AS A SEDIMENT BASIN UNTIL THE SITE IS STABILIZED.
 - INSTALL STORM SEWER SYSTEM AND SURFACE STORM INLET AND MANHOLE PROTECTION.
 - ESTABLISH A TEMPORARY SEEDING ON A BARE AREA THAT WILL REMAIN UNDISTURBED FOR MORE THAN 21 DAYS. SEED WITH PERENNIAL RYE GRASS MULCH WITH STRAW.
 - IMMEDIATE AFTER TOPSOIL HAS BEEN PLACED, STABILIZE THE SAME SURFACE AREA WITH FINAL SEED AND MULCH 7 DAYS AFTER REACHING FINAL GRADE.
 - AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL PRACTICES.

- 1) SUBSOLING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOLING IS NOT PERMITTED IN CRACKED AREAS.
- 2) THE SITE SHALL BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- 3) TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.
- 4) THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY AT A RATE OF 2 TONS PER ACRE OR 500 LB/AC OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- 5) APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED.
- 6) SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 15 TO SEPTEMBER 30. SEEDING OUTSIDE THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS TOO DRY ENOUGH TO CRUMBLE AND NOT FIRM RIBBONS WHEN COMPRESSED BY HAND.
- 7) SEEDING SHOULD NOT BE APPLIED FROM OCTOBER 1 TO NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. USE THE FOLLOWING METHODS FOR DORMANT SEEDING:

- ### PERMANENT SEEDING FERTILIZATION AND MOWING CHART

PERMANENT SEEDING SPECIES SELECTION

STEEP BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST

KENTUCKY BLUEGRASS	100 - 120	
PERENNIAL RYEGRASS	100 - 120	
KENTUCKY BLUEGRASS	100 - 120	FOR SHADED AREAS
CREEPING RED FESCUE	100 - 120	

PERMANENT SEEDING DETAIL

SCALE: NONE

NOTES:

1. PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:

A. TENSILE STRENGTH	= 200 LBS.
B. PUNCTURE STRENGTH	= 80 PSI
C. TEAR STRENGTH	= 50 LBS.
D. BURST STRENGTH	= 320 PSI
E. ELONGATION	= 20%
F. EQUIVALENT OPENING SIZE	≤ 0.6 MM
G. PERMITTIVITY	= 0.001 CM/SEC

2. APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REFINISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.

3. IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUBBING IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.

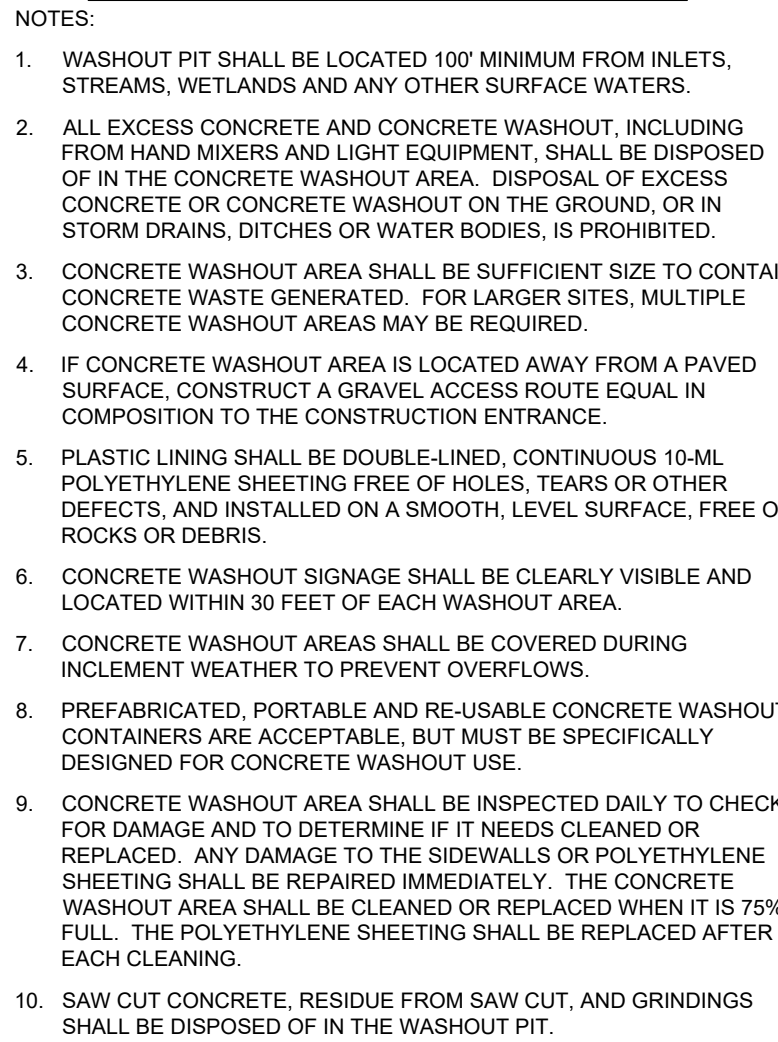
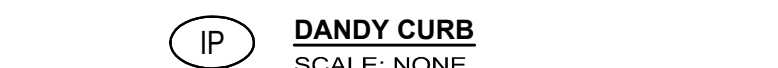
4. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRAILING. VEHICLES THAT ENTER SHALL HAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

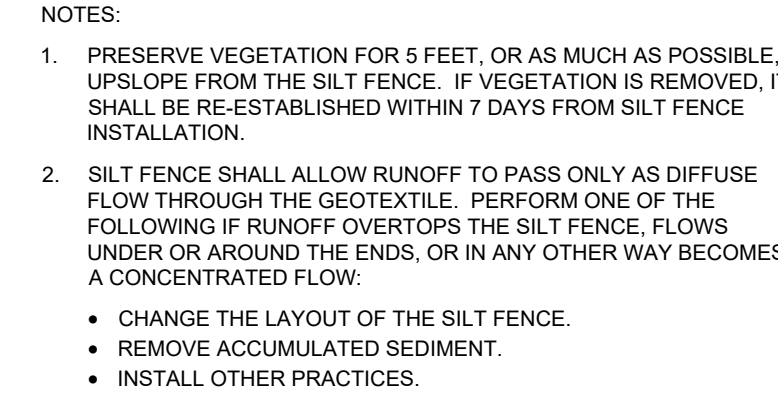
NOTES:

- 1) THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
- 2) SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- 3) APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO PLACE.
- 4) APPLY MULCHING IMMEDIATELY AFTER SEEDING,
- 5) SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS, AND RESEED AS NECESSARY.

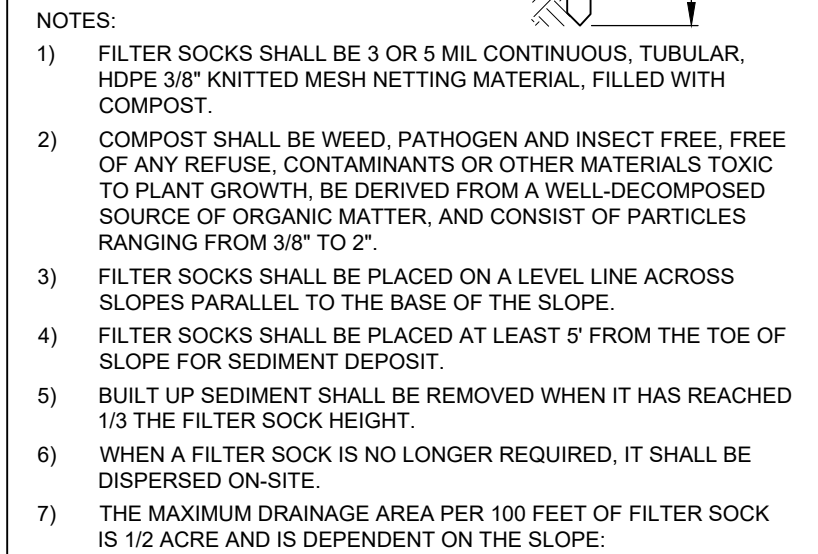
TEMPORARY SEEDING DETAIL

SCALE: NONE





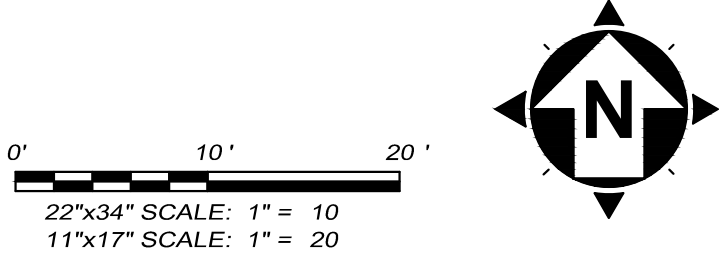
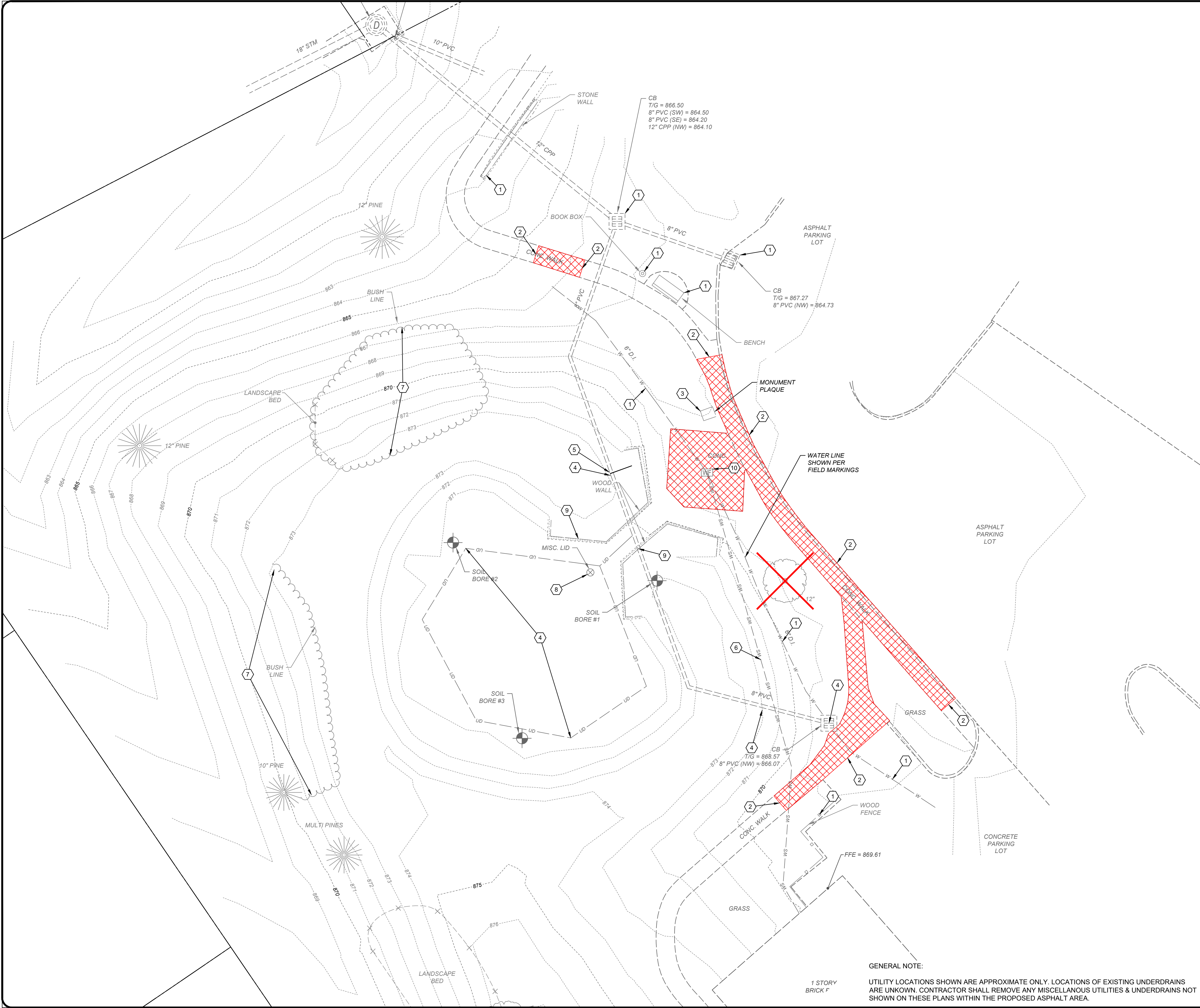
SILT FENCE
SCALE: NONE



FILTER SOCK DETAIL

SCALE: NONE





- DEMOLITION NOTES**
- DO NOT DISTURB
 - SAW-CUT EXISTING PAVEMENT/WALK
 - REMOVE EXISTING MONUMENT PLAQUE. INCIDENTAL TO CLEARING AND GRUBBING
 - REMOVE EXISTING STORM PIPE/STRUCTURE
 - CUT AND CAP EXISTING STORM PIPE. INCIDENTAL TO PIPE REMOVAL ITEM
 - REMOVE EXISTING WATER SERVICE LINE
 - REMOVE EXISTING VEGETATION
 - REMOVE MISC. UTILITY
 - REMOVE EXISTING WOOD WALLS
 - REMOVE EXISTING WATER FOUNTAIN

- HATCH LEGEND**
- EXISTING PAVEMENT TO BE REMOVED
 - REMOVE EXISTING TREE

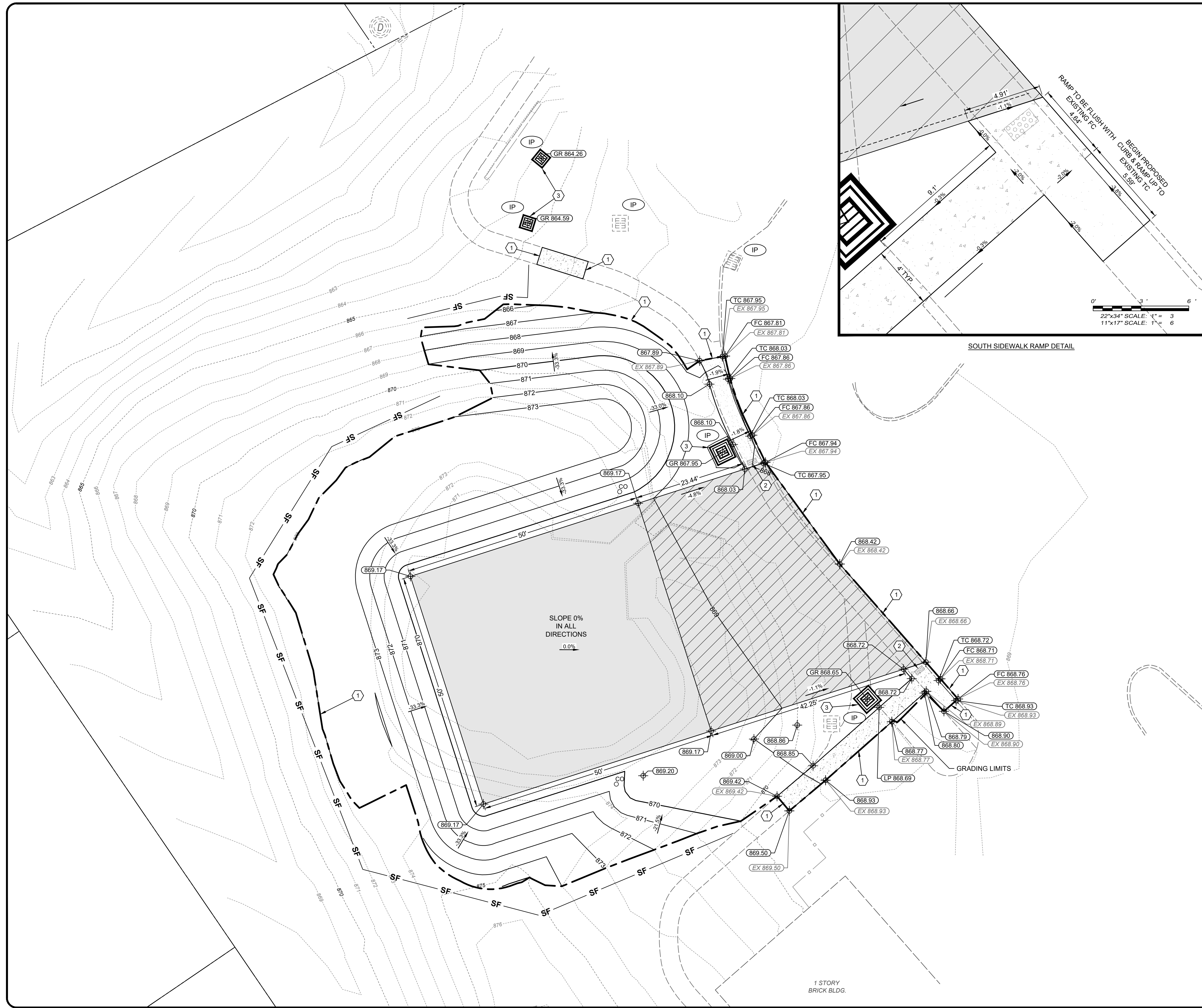
GENERAL NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. LOCATIONS OF EXISTING UNDERDRAINS ARE UNKNOWN. CONTRACTOR SHALL REMOVE ANY MISCELLANEOUS UTILITIES & UNDERDRAINS NOT SHOWN ON THESE PLANS WITHIN THE PROPOSED ASPHALT AREA.

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	05/14/2026			
SCALE:				
DESIGNED BY:	TPEL			
DRAWN BY:	TPEL			
CHECKED BY:	MHEL			

**FORT WRIGHT SALT STORAGE
BUILDING PHASE 1 - SITE PREP
CITY OF FORT WRIGHT
KENTON COUNTY, KY**

EXISTING CONDITION & DEMO PLAN

PROJECT NO. 39973-01	
DISCIPLINE CIVIL	
SHEET NAME C01	
SHEET 6	OF 9



CONSTRUCTION NOTES

HATCH LEGEND

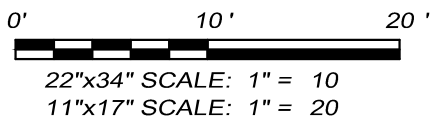
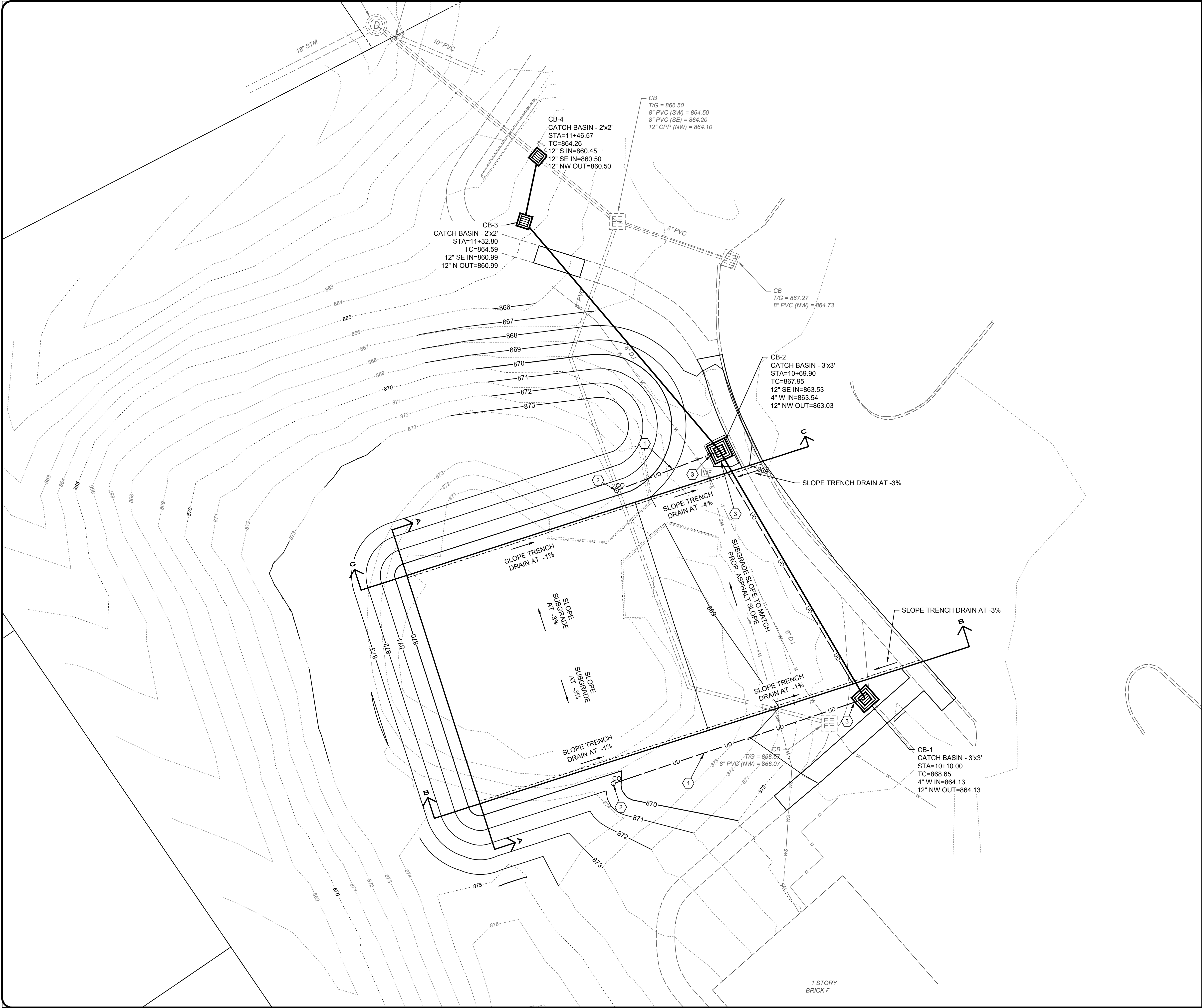
GRADING LEGEND

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ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	05/14/2026			
SCALE:				
DESIGNED BY:	TPEL			
DRAWN BY:	TPEL			
CHECKED BY:	MHEL			

**FORT WRIGHT SALT STORAGE
BUILDING PHASE 1 - SITE PREP**
CITY OF FORT WRIGHT
KENTON COUNTY, KY

PROJECT NO.	
39973-01	
DISCIPLINE	
CIVIL	
SHEET NAME	
C02	
SHEET	OF
7	9



CONSTRUCTION NOTES

- 1 INSTALL RIGID 4\"/>
- 2 INSTALL 4\"/>
- 3 CONNECT PROPOSED UNDERDRAIN TO CATCH BASIN. INCIDENTAL TO UNDERDRAIN ITEM.

----- PROPOSED TRENCH DRAIN - SEE TYPICAL SECTIONS

FORT WRIGHT SALT STORAGE
BUILDING PHASE 1 - SITE PREP
CITY OF FORT WRIGHT
KENTON COUNTY, KY

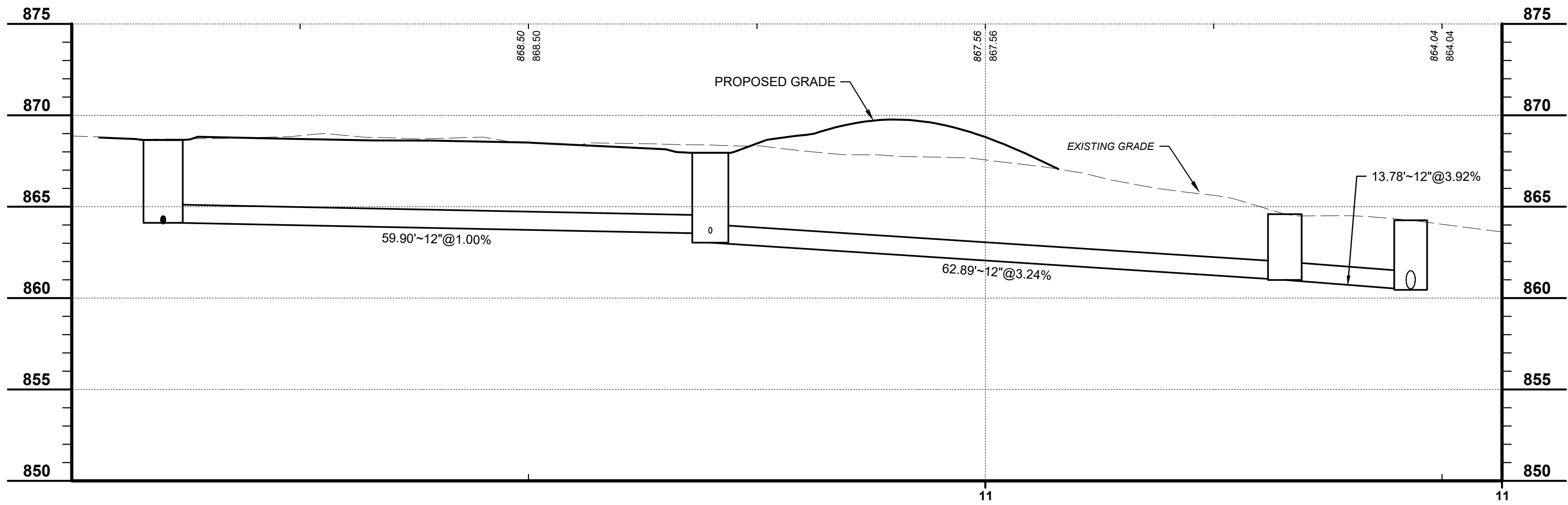
STORM SEWER PLAN

PROJECT NO.	
39973-01	
DISCIPLINE	
CIVIL	
SHEET NAME	
C03	
SHEET	OF
8	9

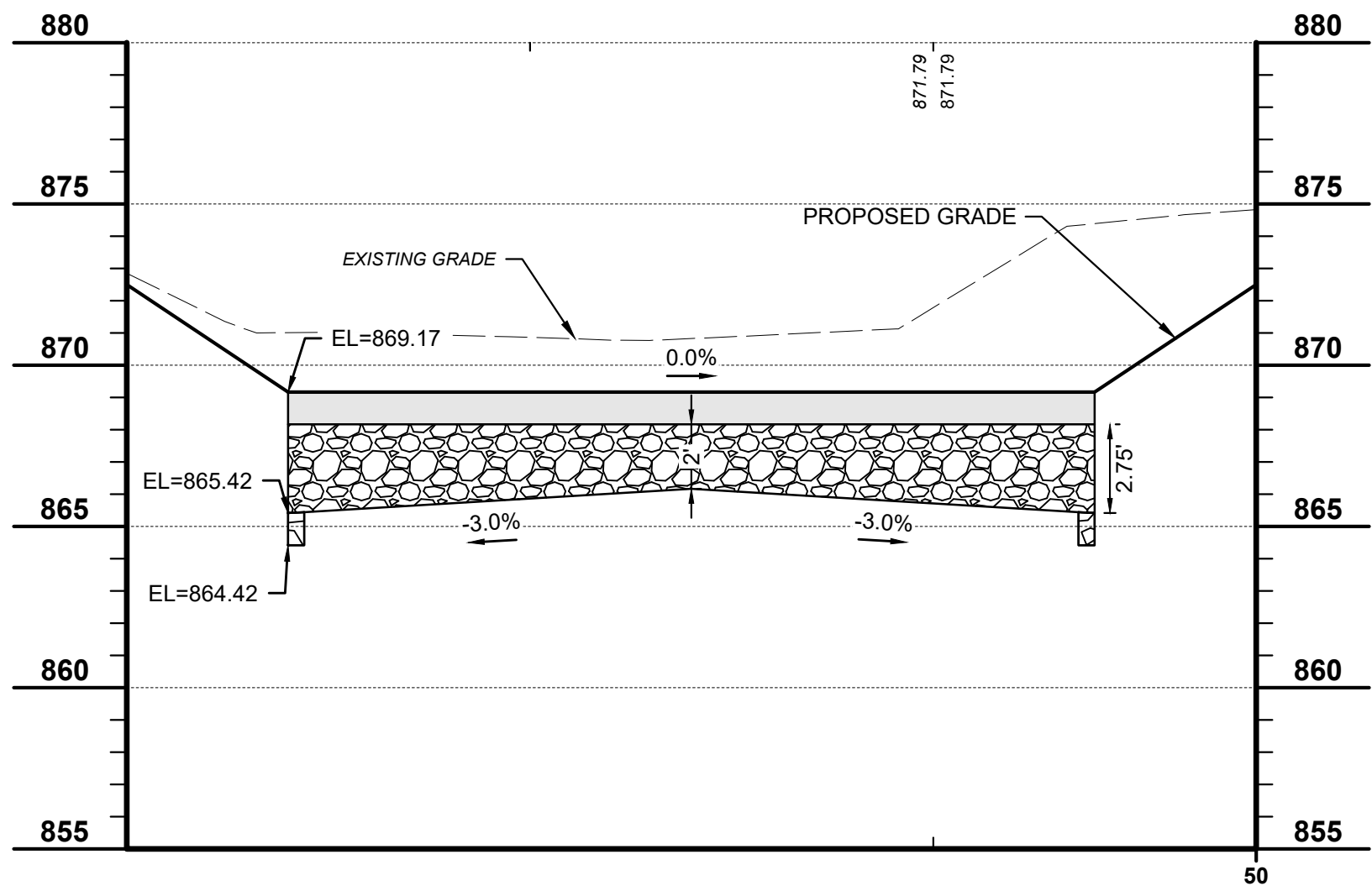
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ISSUE DATE:	05/14/2026			
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DESIGNED BY:	TPEL			
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CHECKED BY:	MHEL			



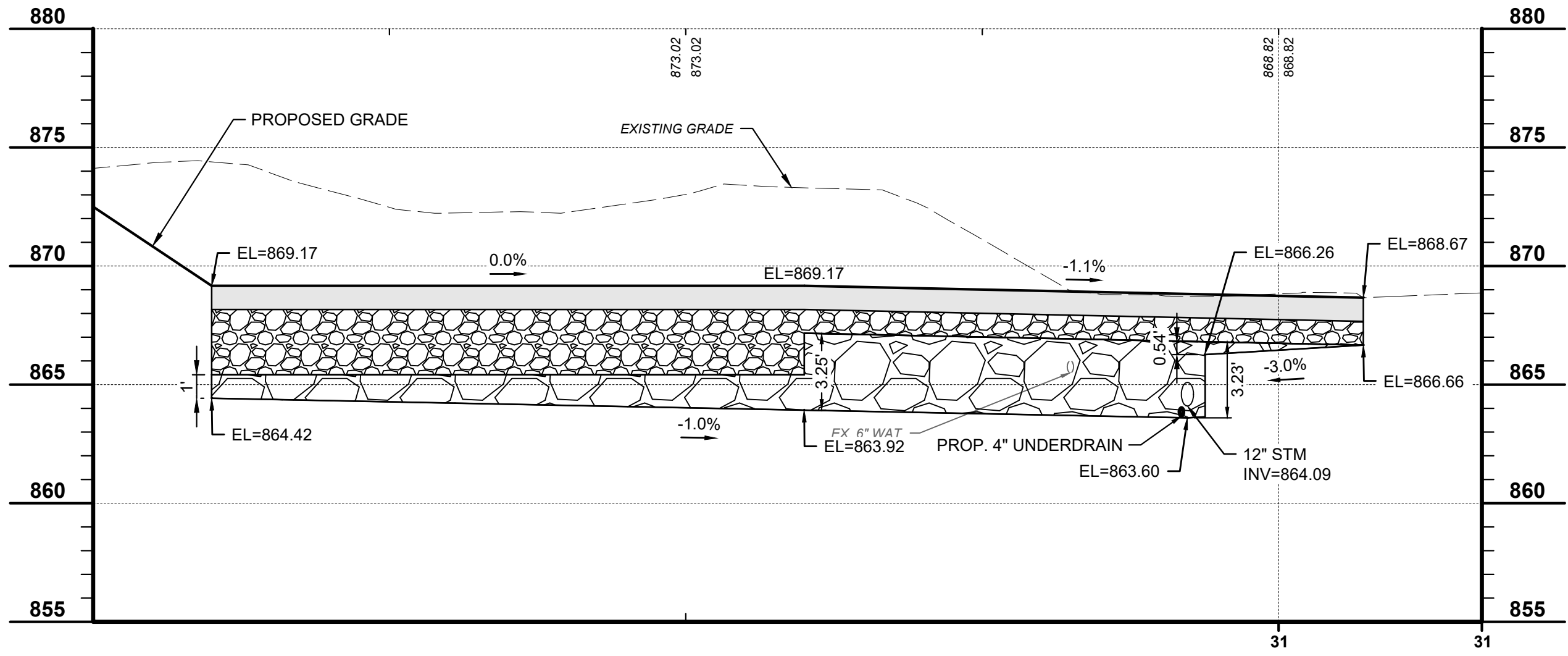
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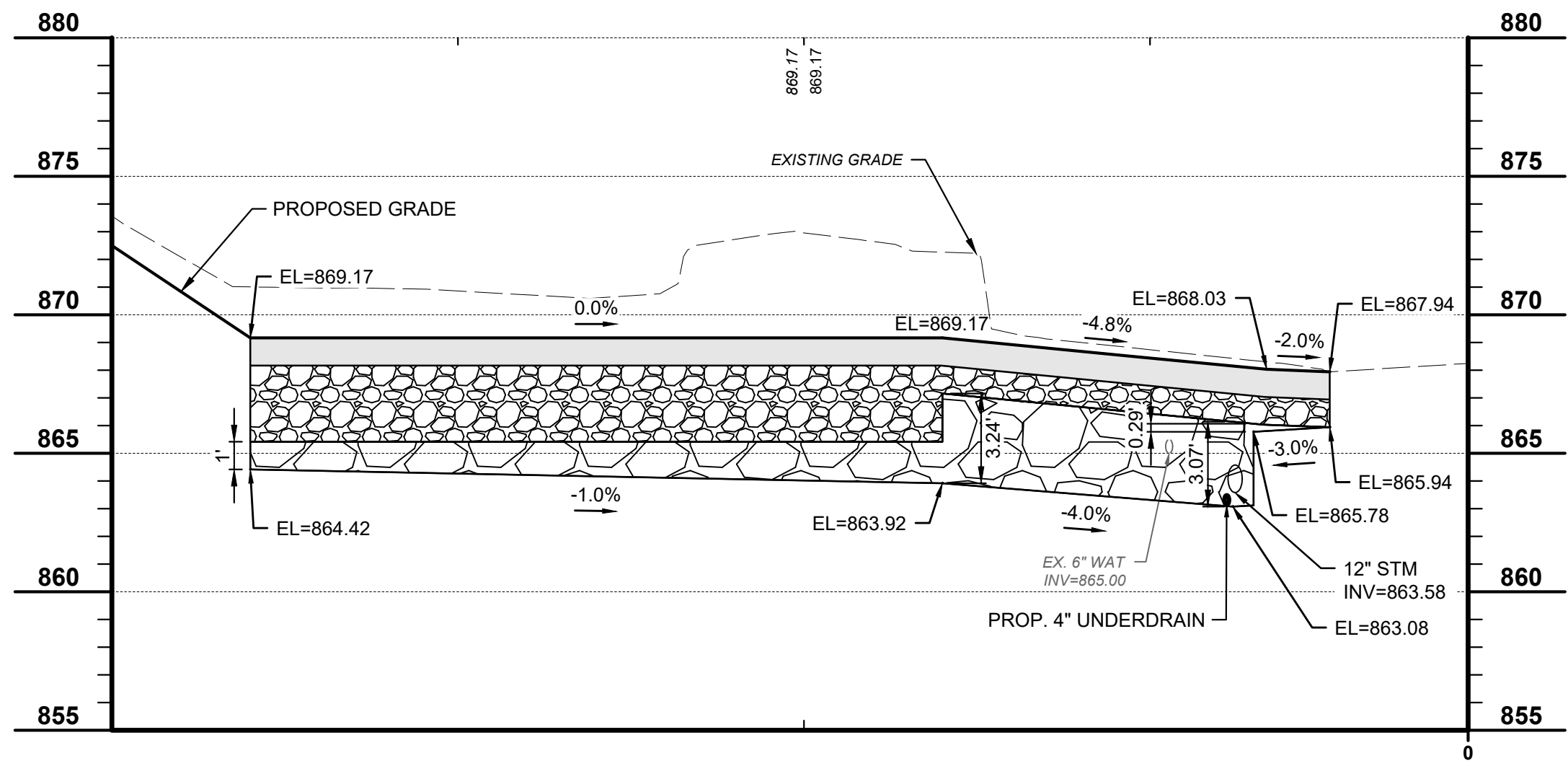
PROPOSED STORM



SECTION A-A



SECTION B-B



SECTION C-C

HATCH LEGEND	
	ASPHALT
	CRUSHED STONE BASE
	TRENCH DRAIN

verdantas

300 BUTTERMILK PIKE, SUITE 332
FORT MITCHELL, KENTUCKY 41017
TEL: (609) 525-0944
WWW.VERDANTAS.COM

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DRAWN BY:	TPEL			
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FORT WRIGHT SALT STORAGE
BUILDING PHASE 1 - SITE PREP
CITY OF FORT WRIGHT
KENTON COUNTY, KY

STORM SEWER PROFILES

PROJECT NO.	
39973-01	
DISCIPLINE	
CIVIL	
SHEET NAME	
C04	
SHEET	OF
9	9