

CITY OF MENTOR

MENTOR LAGOONS

BULKHEAD REPLACEMENT

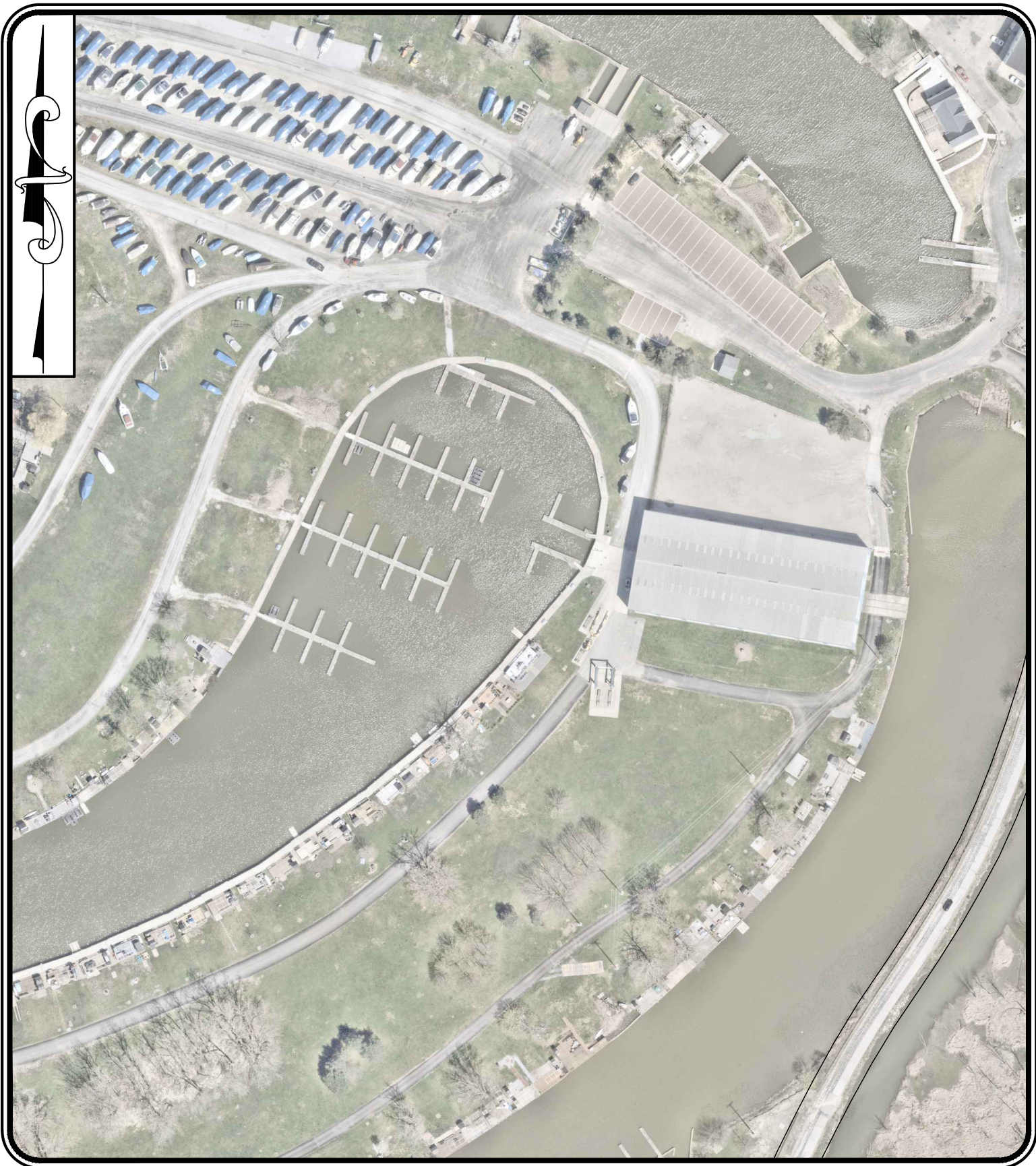
PHASE 7

LAKE COUNTY, OHIO

JANUARY, 2026



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4	Proposed Layout Plan
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LOCATION MAP
1" = 150'

CITY OFFICIALS:

KENNETH J. FILIPIAK, CITY MANAGER

COUNCIL-AT-LARGE

SCOTT J. MARN

JANET A. DOWLING

RAY KIRCHNER

WARD COUNCIL

SEAN P. BLAKE, PRESIDENT, WARD I

JOHN A. KRUEGER, VICE PRESIDENT, WARD IV

MATTHEW E. DONOVAN, WARD II

MARK T. FREEMAN, WARD III

CITY ADMINISTRATORS:

LORNE VERNON, DIRECTOR OF PUBLIC WORKS

JOSEPH P. SZEMAN, LAW DIRECTOR

MATE ROGONJIC, FINANCE DIRECTOR

KEVIN MALECEK, DIRECTOR OF ECONOMIC DEVELOPMENT

KATHY CANTANZRITI, PLANNING DIRECTOR

KENN KAMINSKI, RECREATION DIRECTOR

KENNETH GUNSCH, POLICE CHIEF

RONALD A. ZAK, FIRE CHIEF

DAVID A. SWIGER, P.E., CITY ENGINEER

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES

CALL TWO WORKING DAYS

BEFORE YOU DIG

CALL

1-800-362-2764

(TOLL FREE)

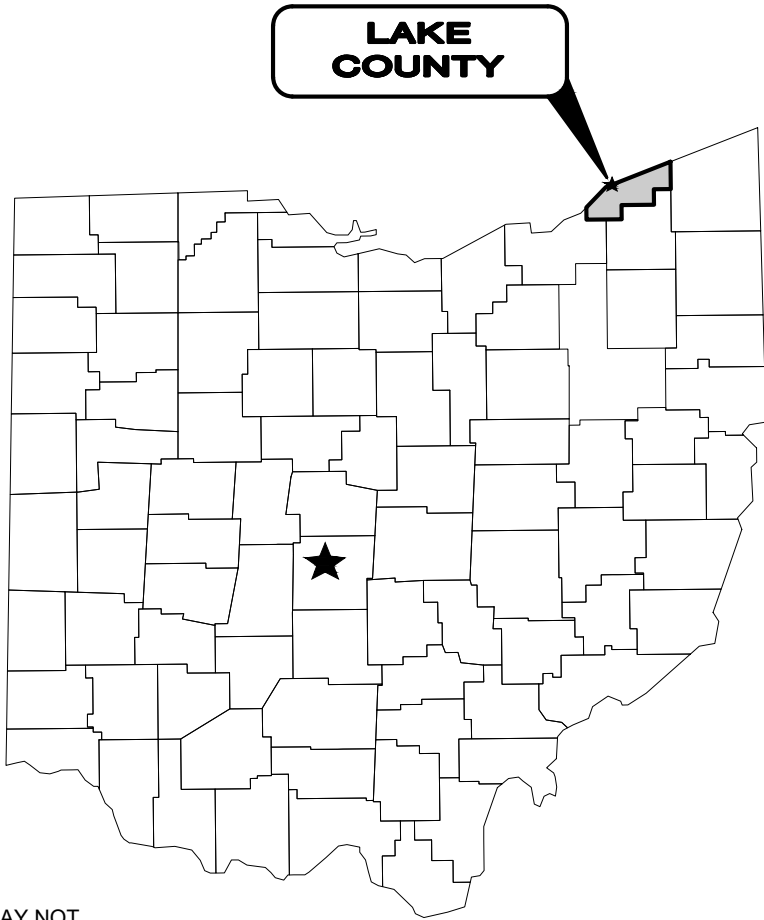
OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS

MUST BE CALLED DIRECTLY

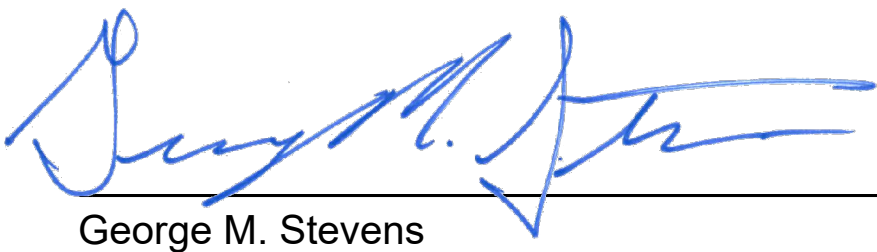
OIL & GAS PRODUCERS PROTECTIVE

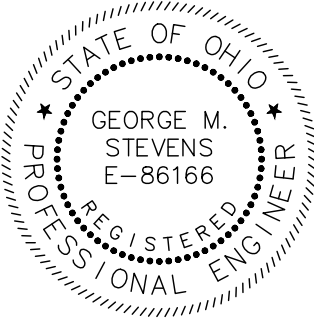
SERVICE CALL: 1-800-925-0988



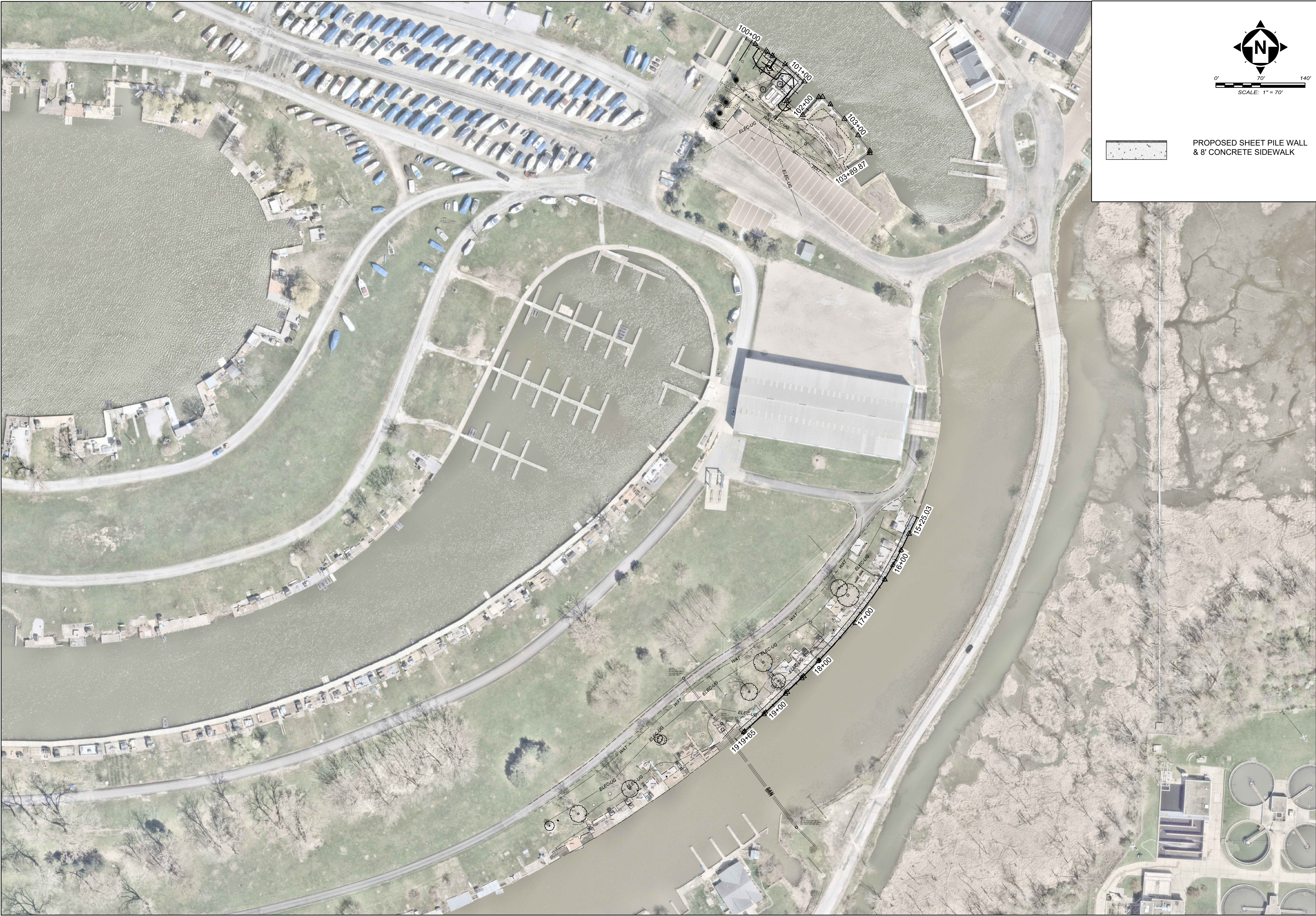
1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.
2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
3. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.




George M. Stevens


P.E. № 86166

01/06/2026
DATE



PROPOSED SHEET PILE WALL
& 8' CONCRETE SIDEWALK



verdantas

ISSUED FOR:	DRAFT	NO	REVISION	DATE
ISSUE DATE:	1/6/2026			
SCALE:	AS SHOWN			
DESIGNED BY:	GMS			
DRAWN BY:	TJM			
CHECKED BY:	GMS			

CITY OF MENTOR
MENTOR LAGOONS BULKHEAD, PHASE 7
LAKE COUNTY, OHIO

SITE LAYOUT OVERVIEW

PROJECT NO. 34886	
DISCIPLINE CIVIL	
SHEET NAME OVERVIEW	
SHEET 2	OF 10

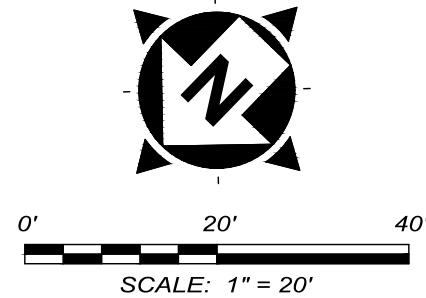


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CITY OF MENTOR
MENTOR LAGOONS BULKHEAD, PHASE 7
LAKE COUNTY, OHIO

EXISTING CONDITIONS
AND DEMO PLAN

PROJECT NO.	34886
DISCIPLINE	CIVIL
SHEET NAME	DEMO 1
SHEET	3
OF	10



X

TREES FELLED BY CITY, CONTRACTOR TO REMOVE STUMP AND DISPOSE OFFSITE.

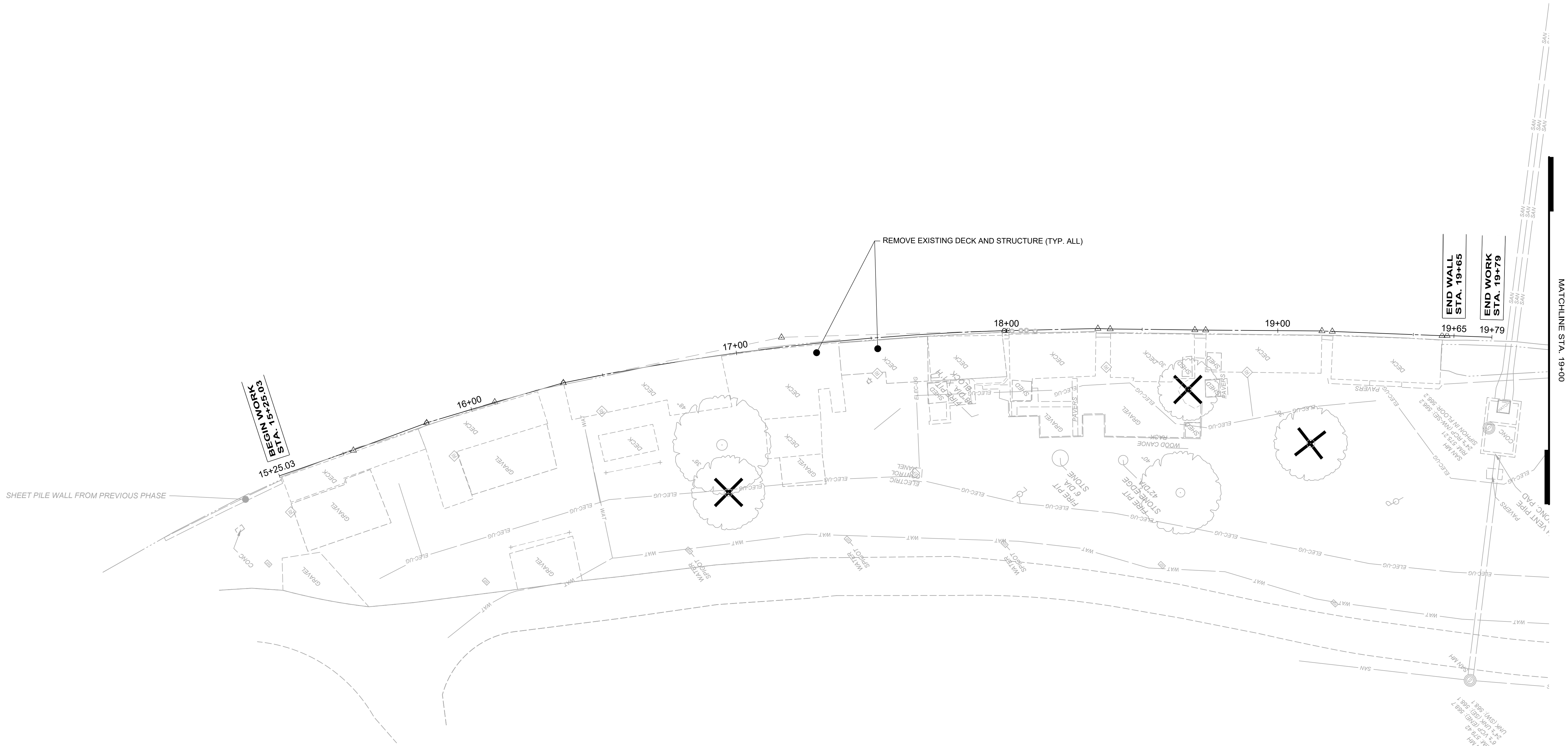
*NOTES

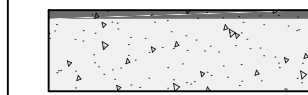
ALL RESTORED AREAS SHALL BE ROCKHOINED PRIOR TO SEEDING & MULCHNG

FILL DIRT IS AVAILABLE FOR PROJECT USE AT DOCK D.

OHWM = 573.61 NAVD88

WATER ELEV. 11/1/24 = 571.28

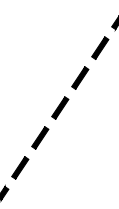




PROPOSED SHEET PILE WALL & 8' CONCRETE SIDEWALK



TREES FELLED BY CITY, CONTRACTOR TO REMOVE STUMP AND DISPOSE OFFSITE.



(SD) SLAB DRAIN - PER DETAIL
FINAL LOCATION PER OWNER

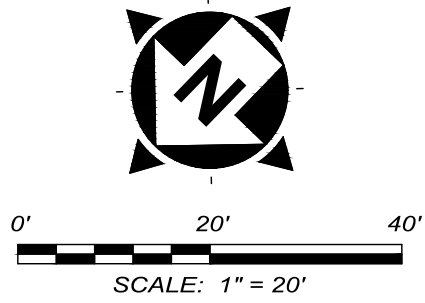
*NOTES

ALL RESTORED AREAS SHALL BE ROCKHOUNDED PRIOR TO SEEDING & MULCHNG

FILL DIRT IS AVAILABLE FOR PROJECT USE AT DOCK D.

OHWM = 573.61 NAVD88
WATER ELEV. 11/1/24 = 571.28

± MATCH EXISTING ELEVATION

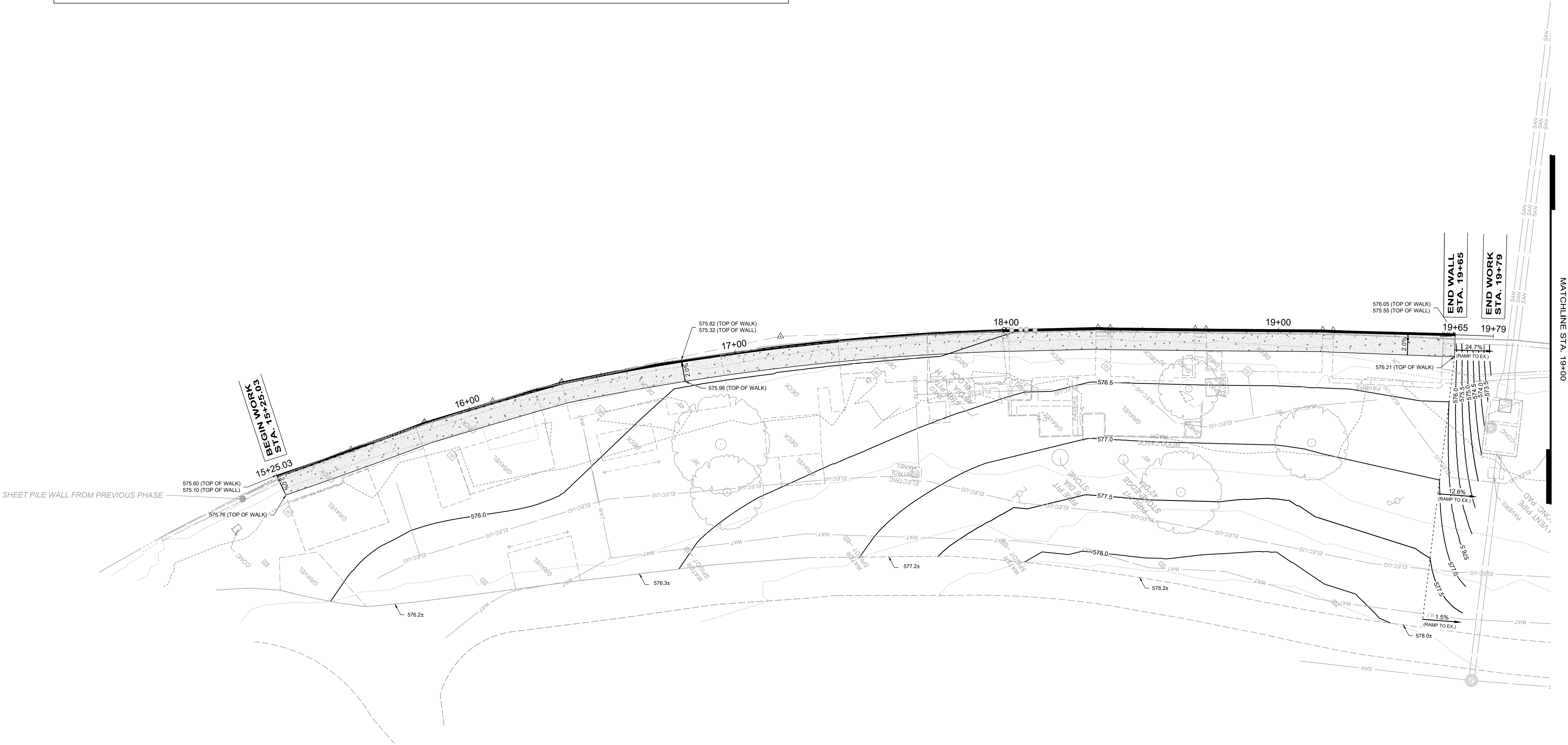


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LAKE COUNTY, OHIO

PROPOSED LAYOUT PLAN

PROJECT NO.	
34886	
DISCIPLINE	
CIVIL	
SHEET NAME	
PR 1	
SHEET	OF
4	10



*NOTES

PROVIDE CLEATS EVERY 10' ALONG NEW WALK. TO BE LAID OUT BY OWNER.

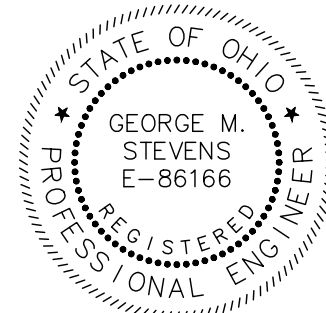
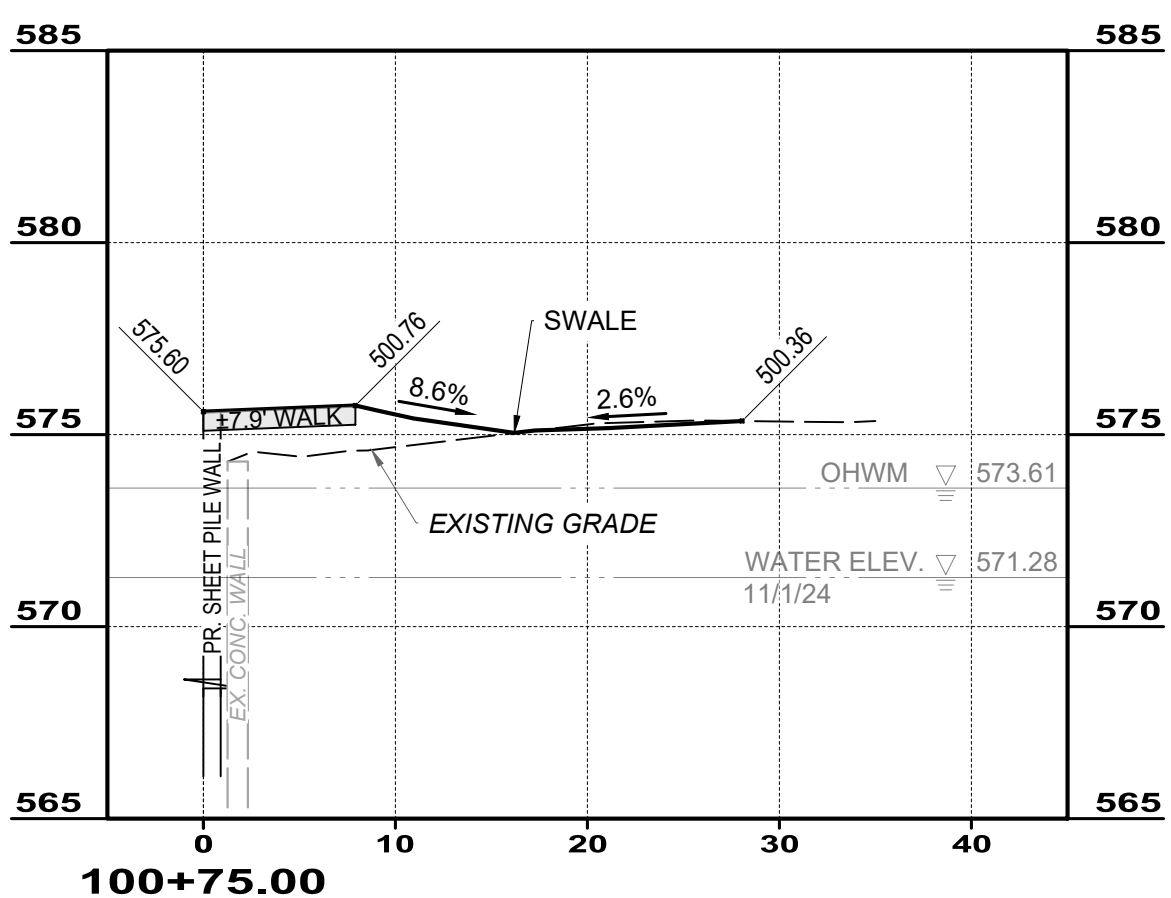
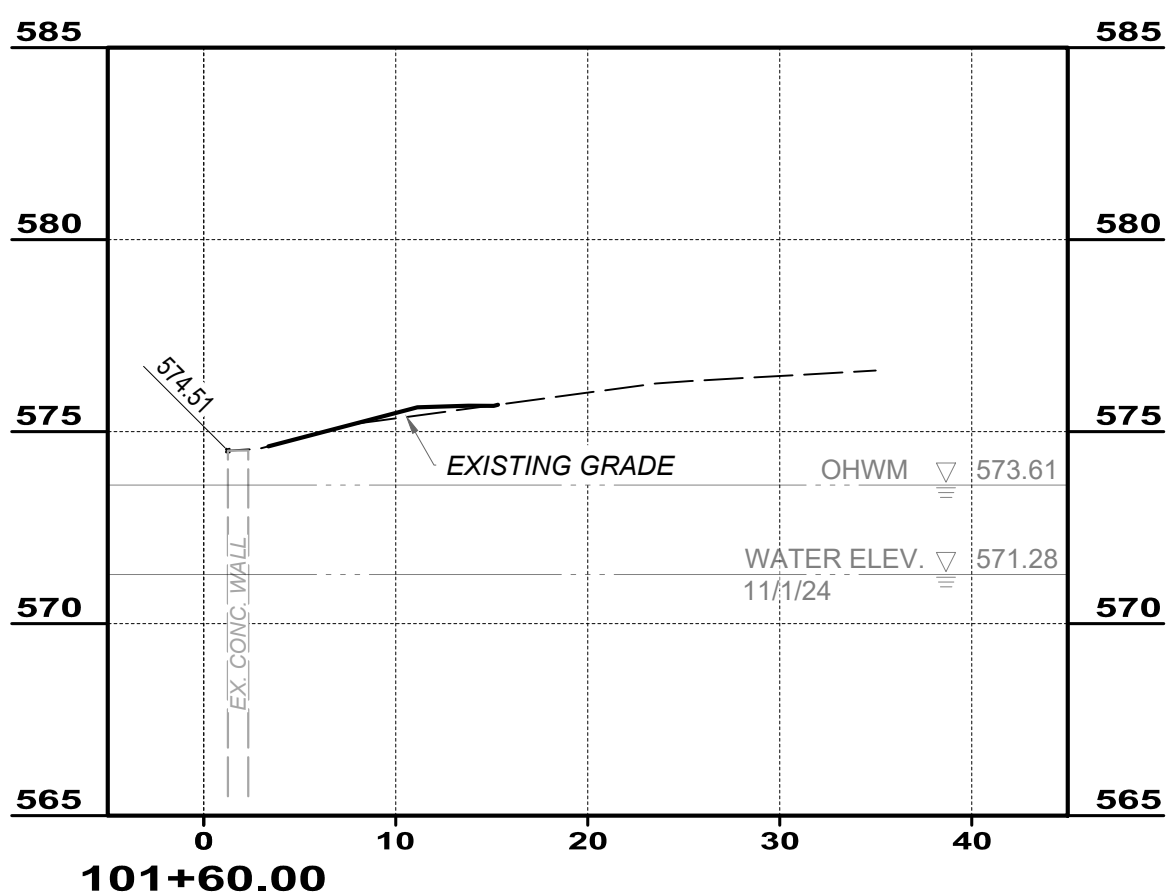
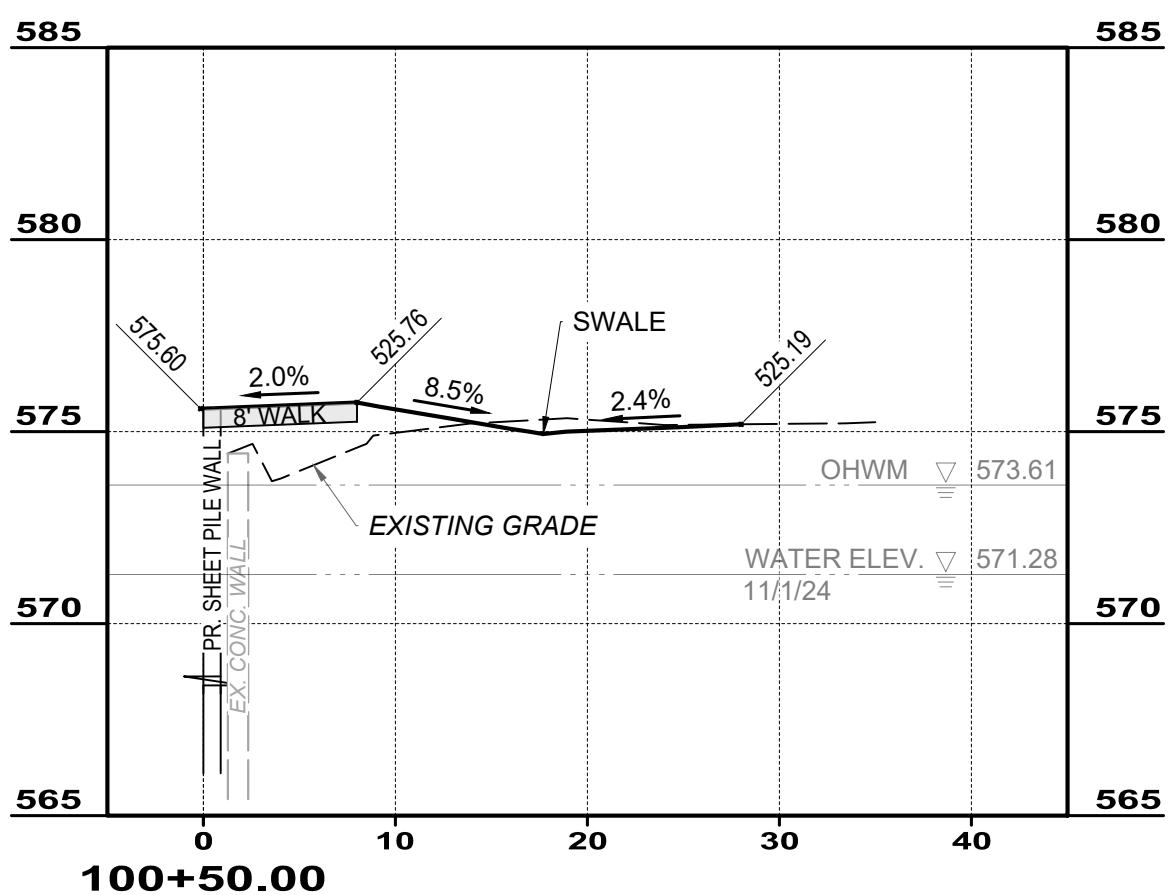
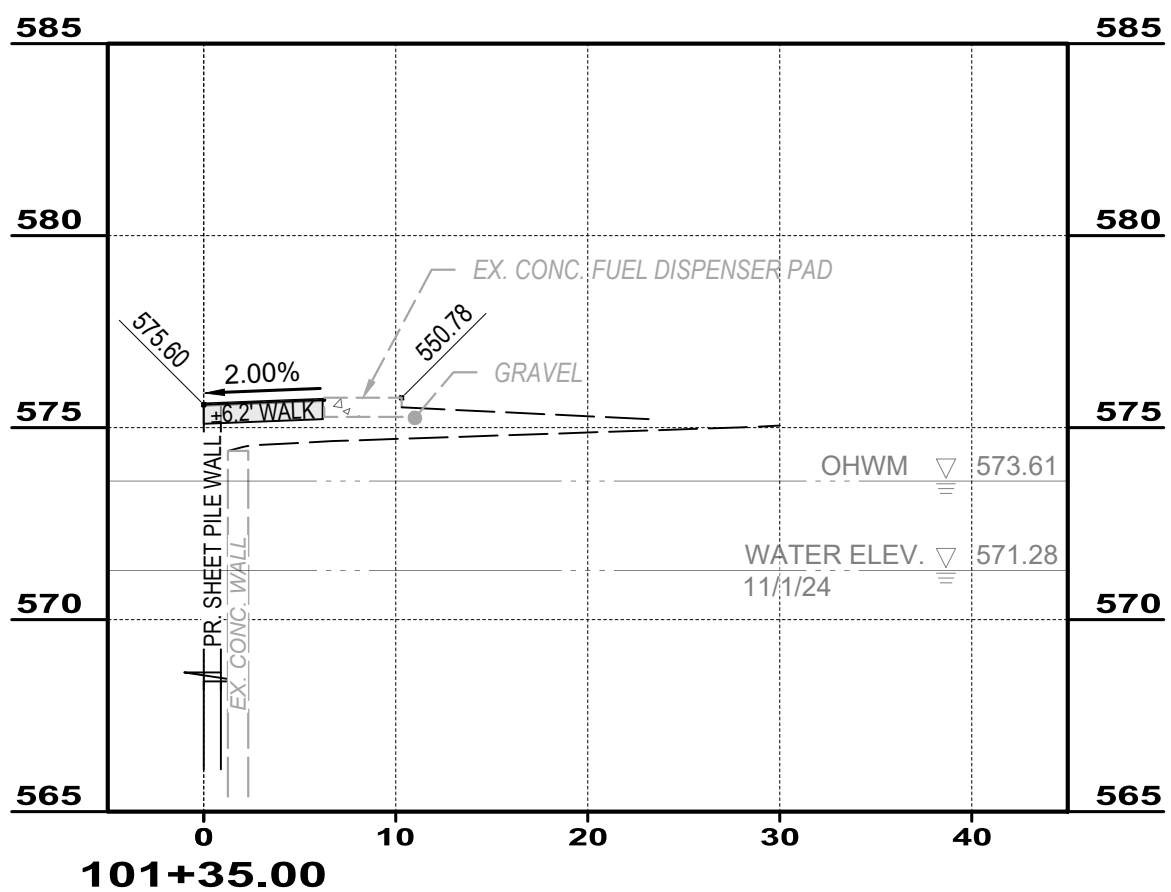
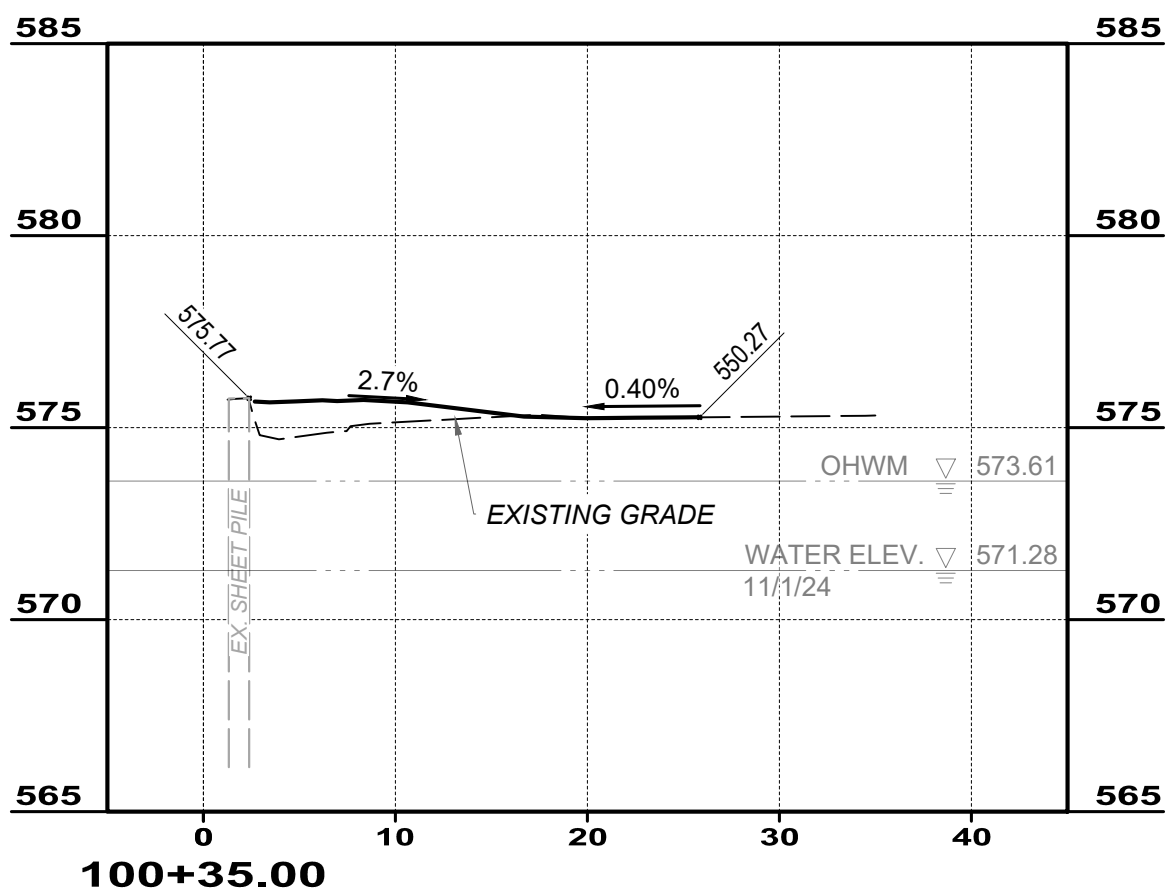
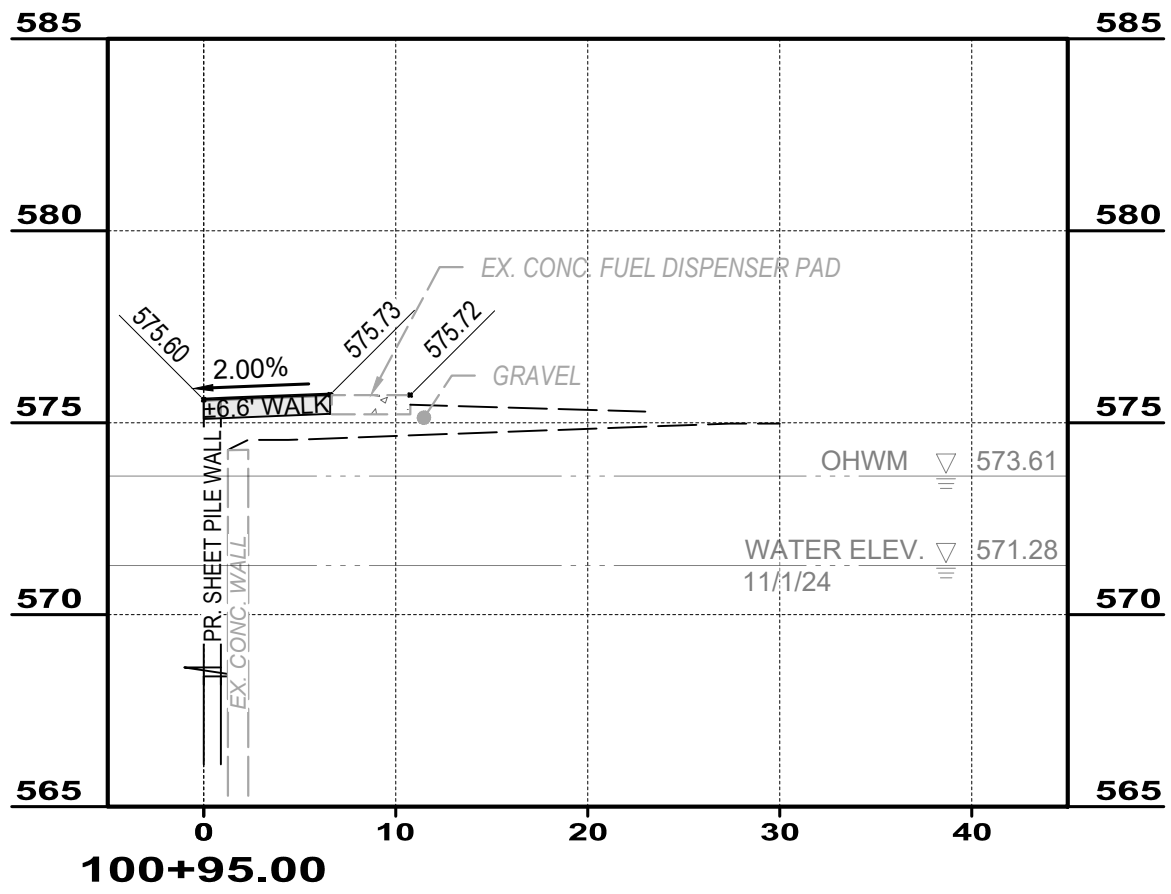
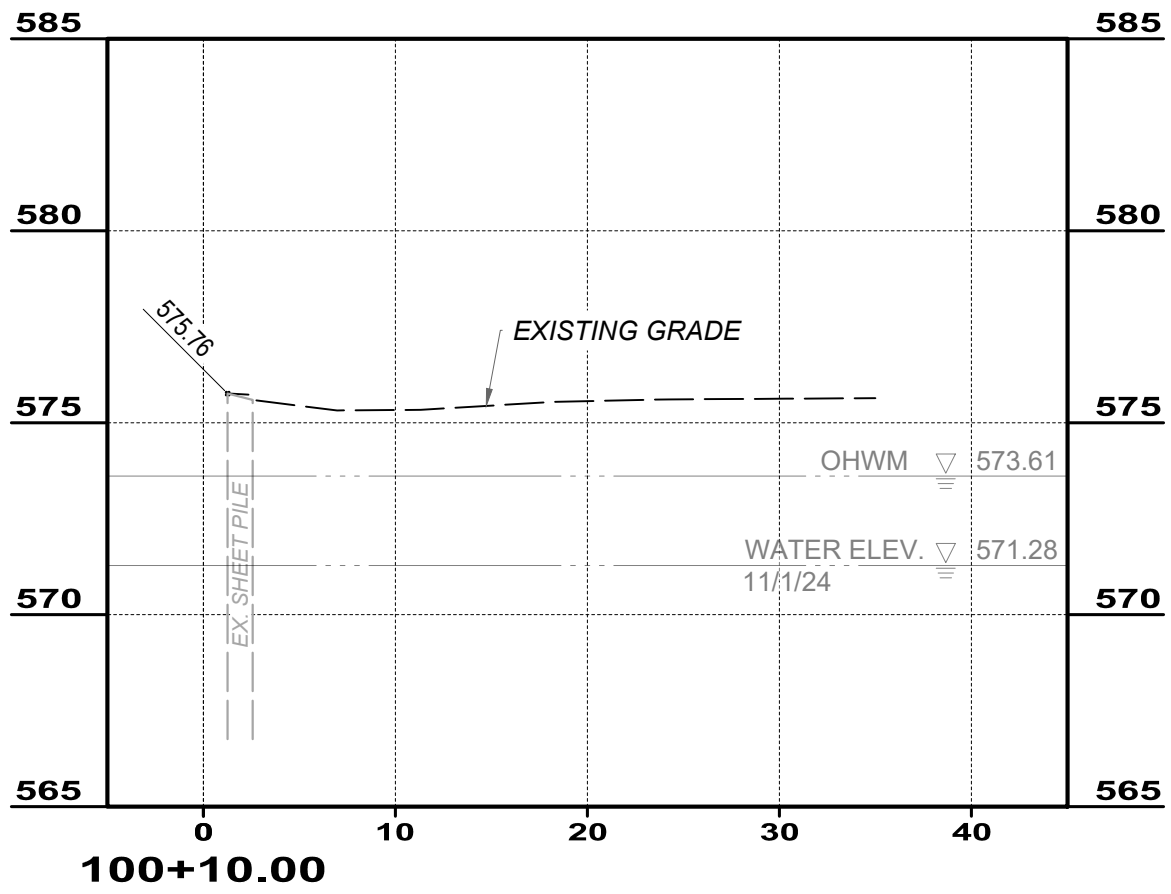
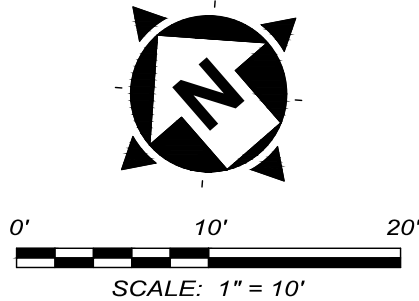
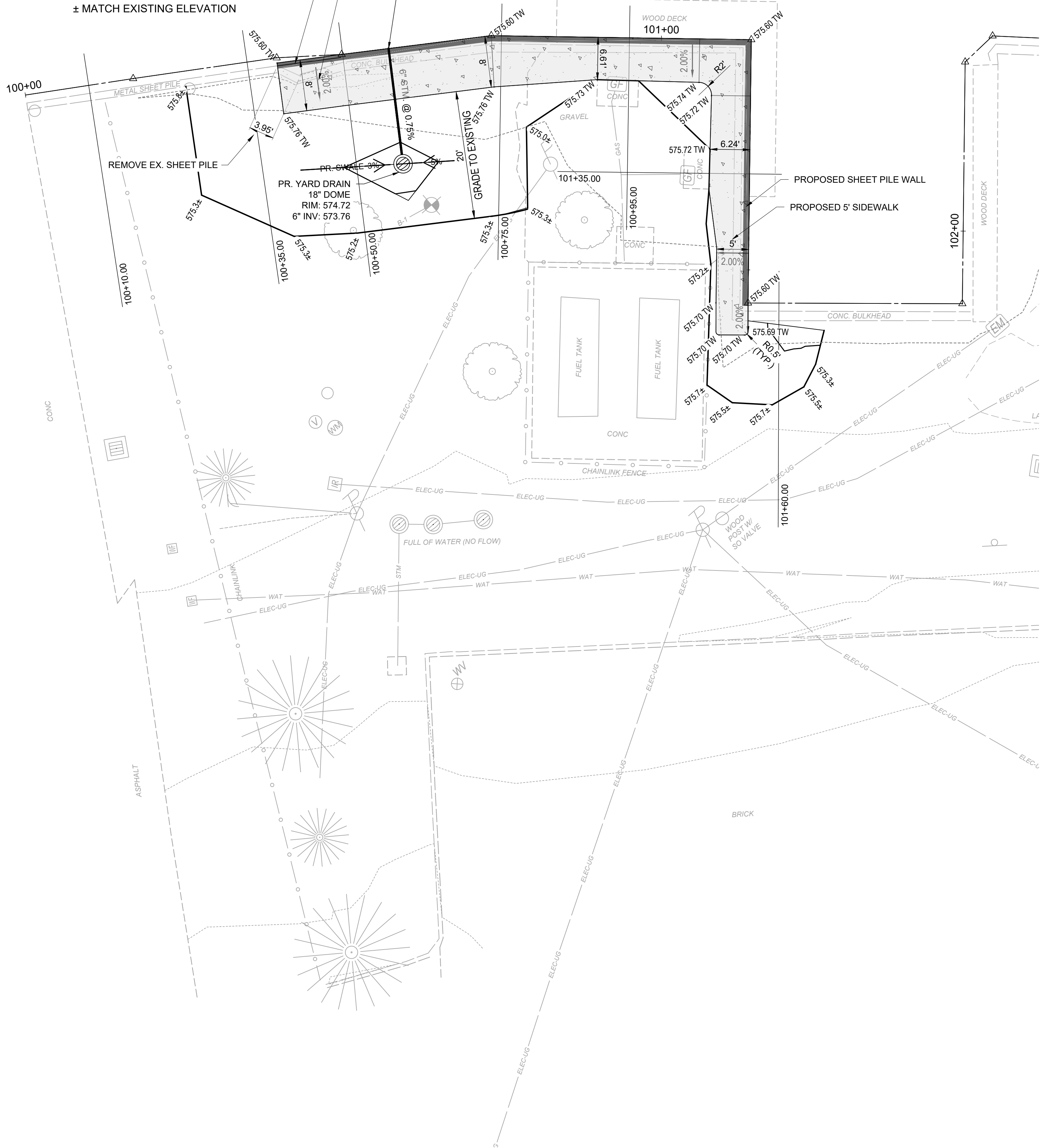
TIE WALL INTO EXISTING SHEET PILE WALL AT STA. 100+39.63. REMOVE ±4' OF EXISTING SHEET PILE.

± MATCH EXISTING ELEVATION

PROPOSED SHEET PILE WALL
TOP OF WALL = 575.1

PROPOSED 8' SIDEWALK

PR. 23' ~ 6" DRAIN PIPE @ 0.75%
INV: 573.62
EXTEND THROUGH WALL
PROVIDE WATER TIGHT CONNECTION



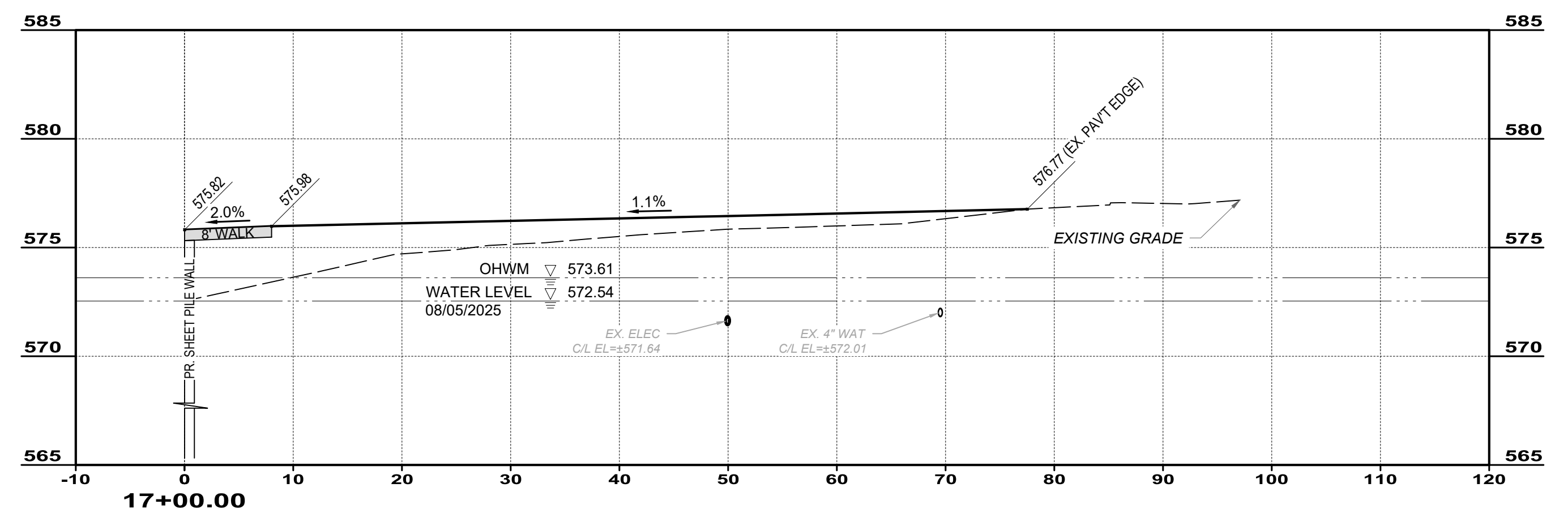
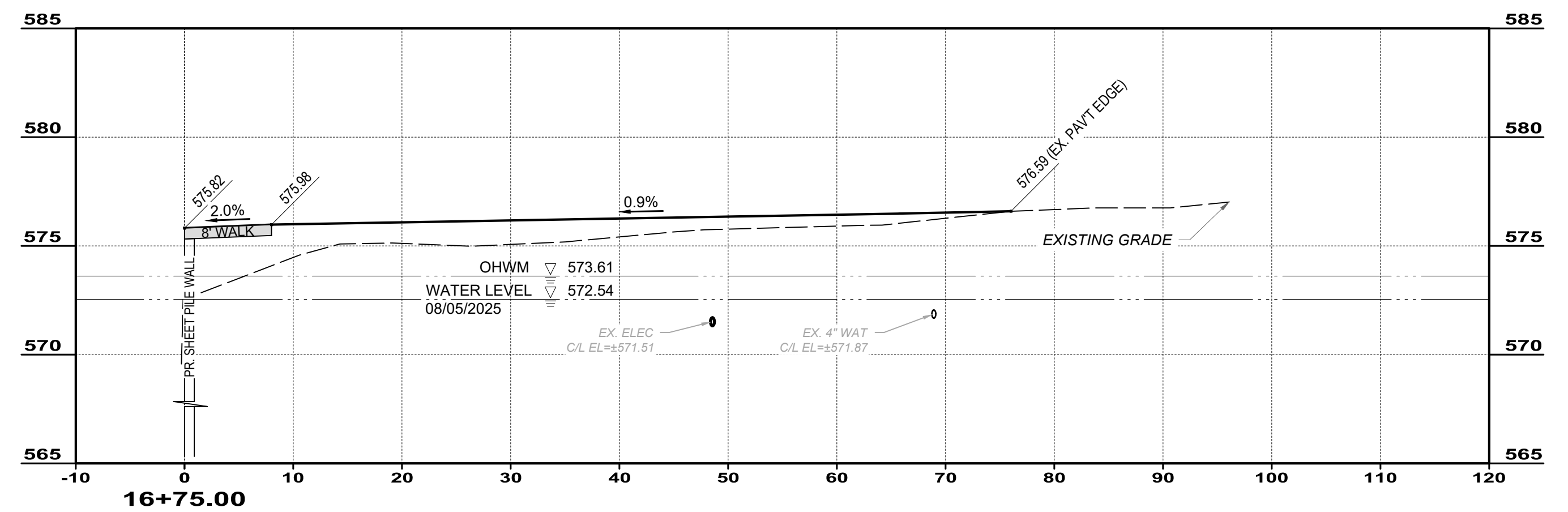
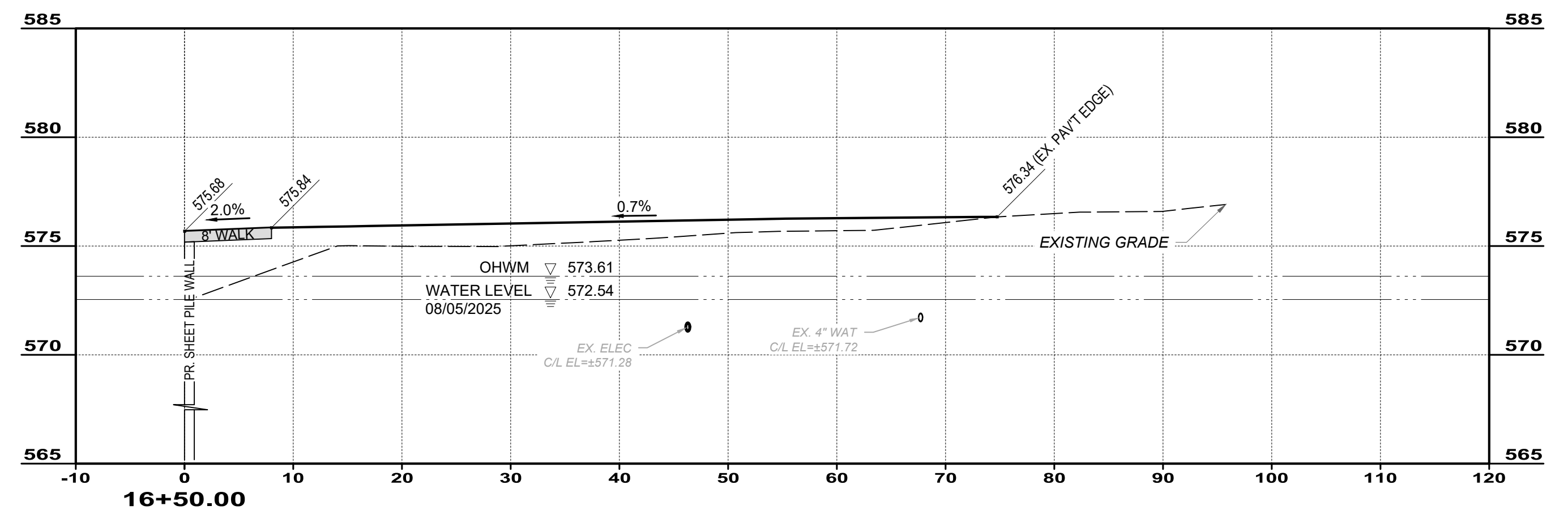
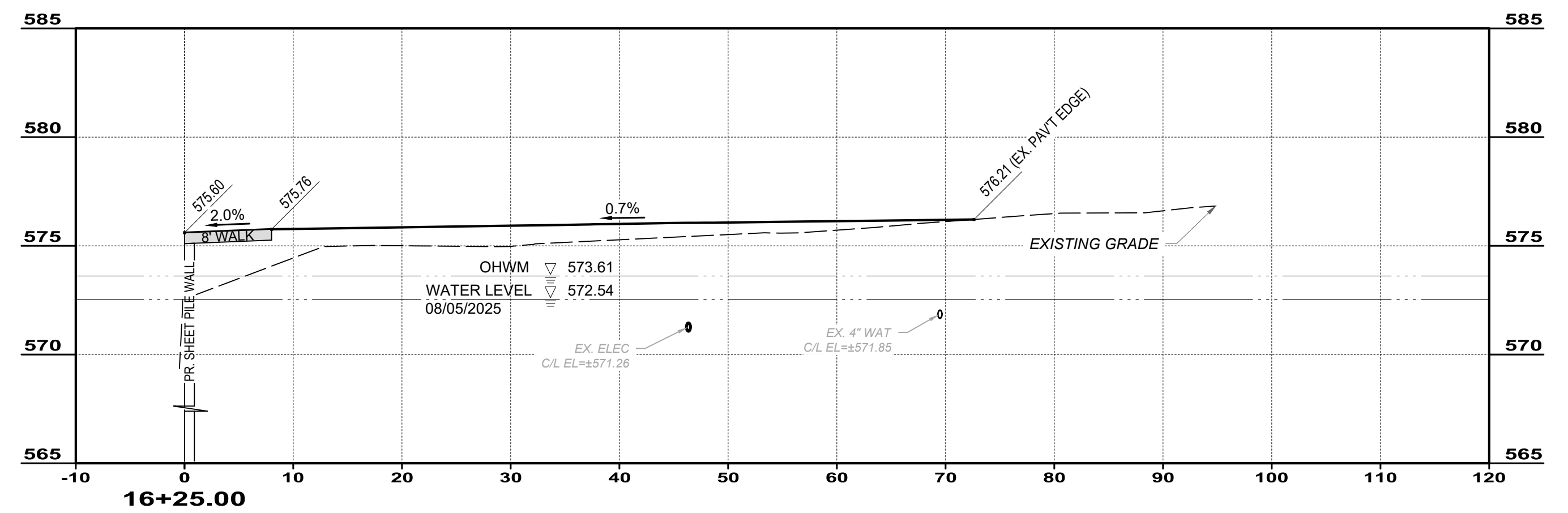
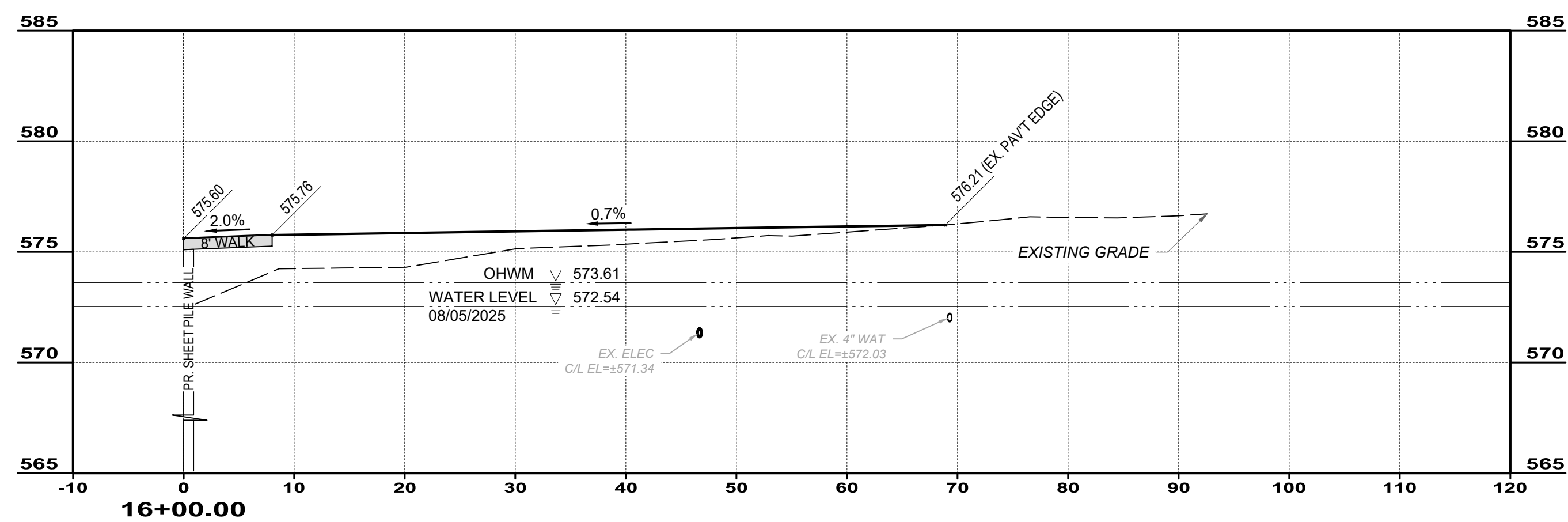
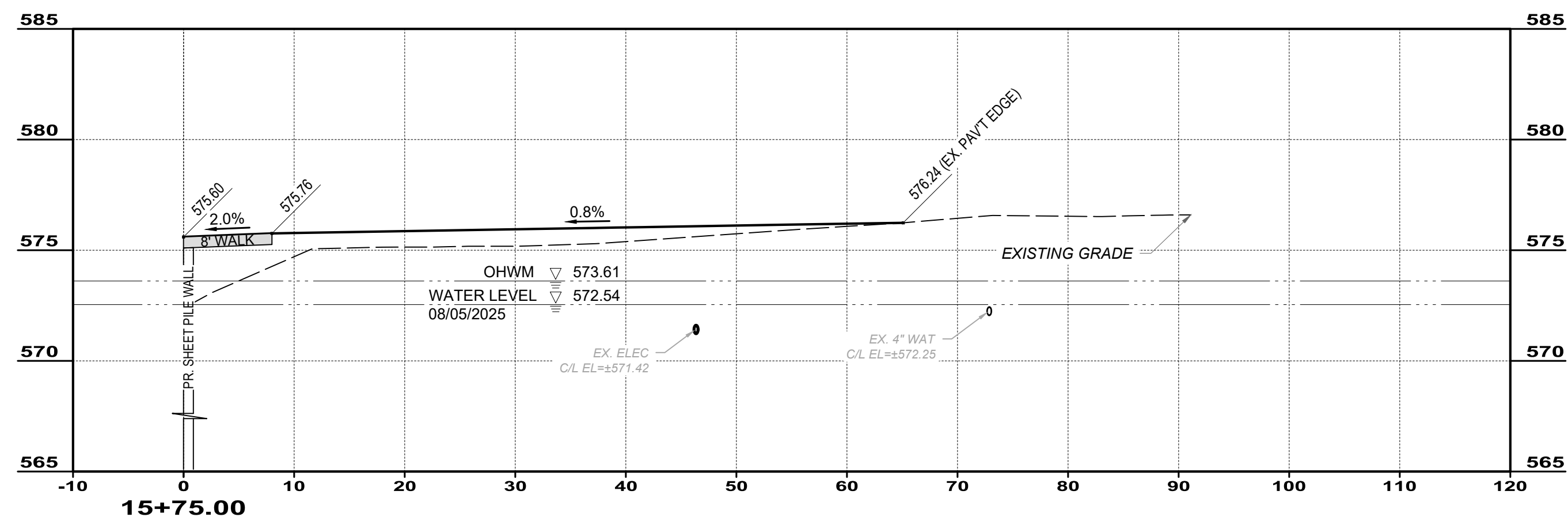
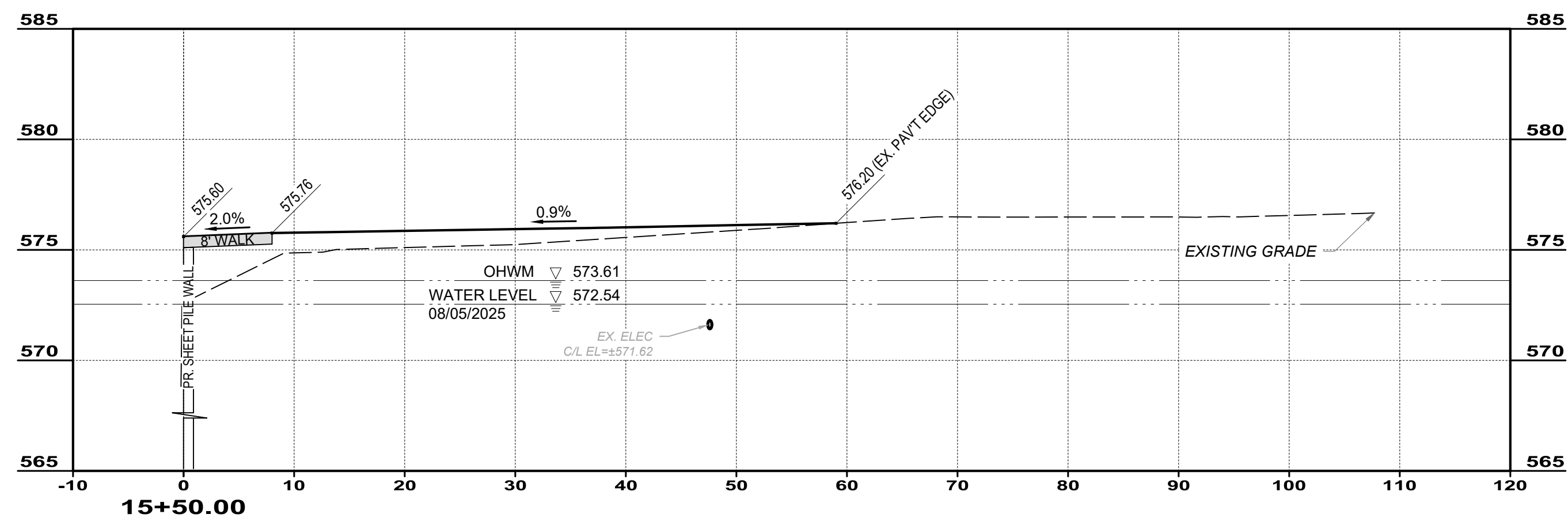
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CITY OF MENTOR
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LAKE COUNTY, OHIO

GAS DOCK PLAN

PROJECT NO.	34886
DISCIPLINE	CIVIL
SHEET NAME	GAS
SHEET	OF
5	10

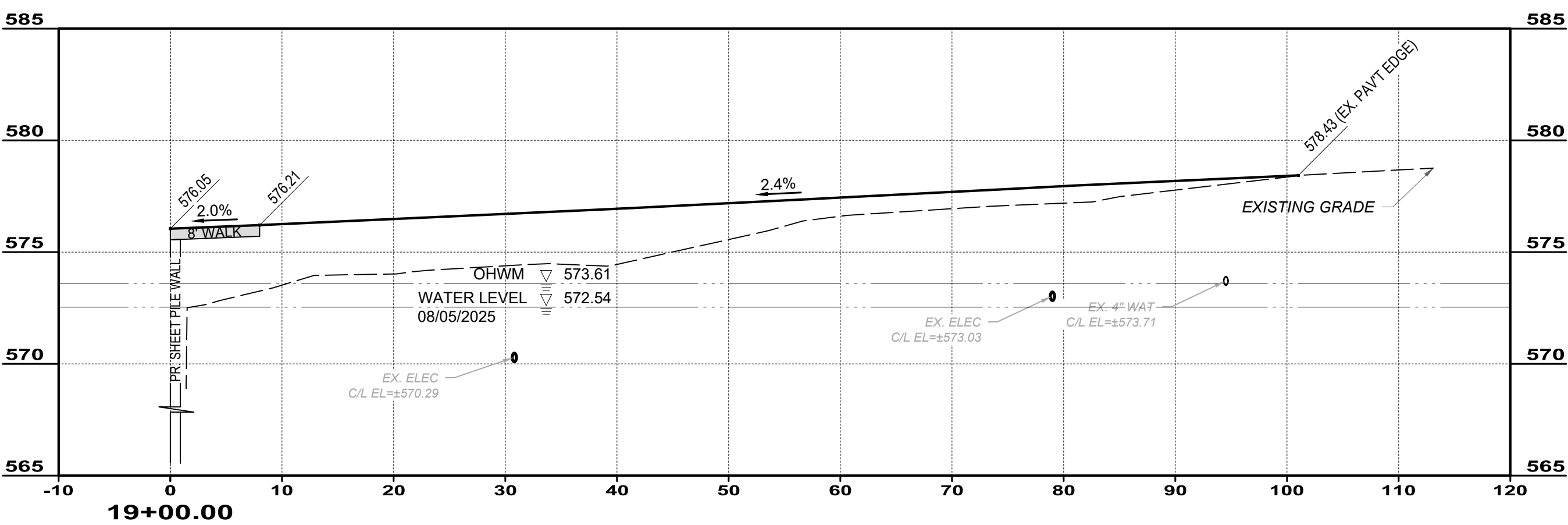
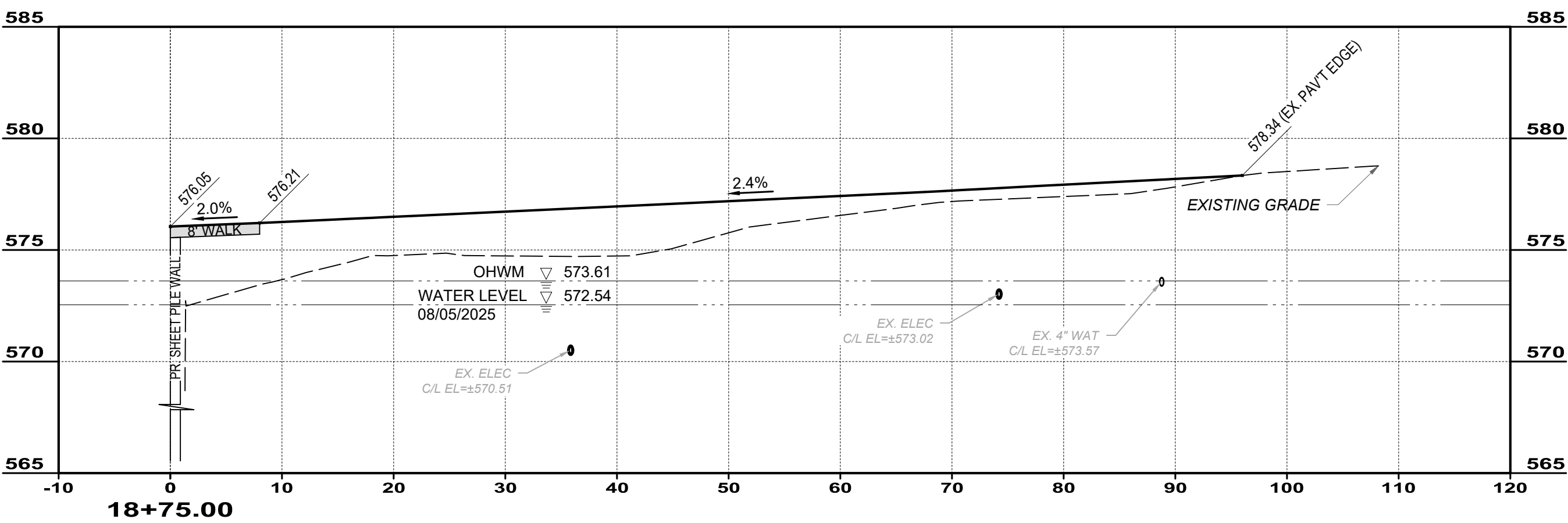
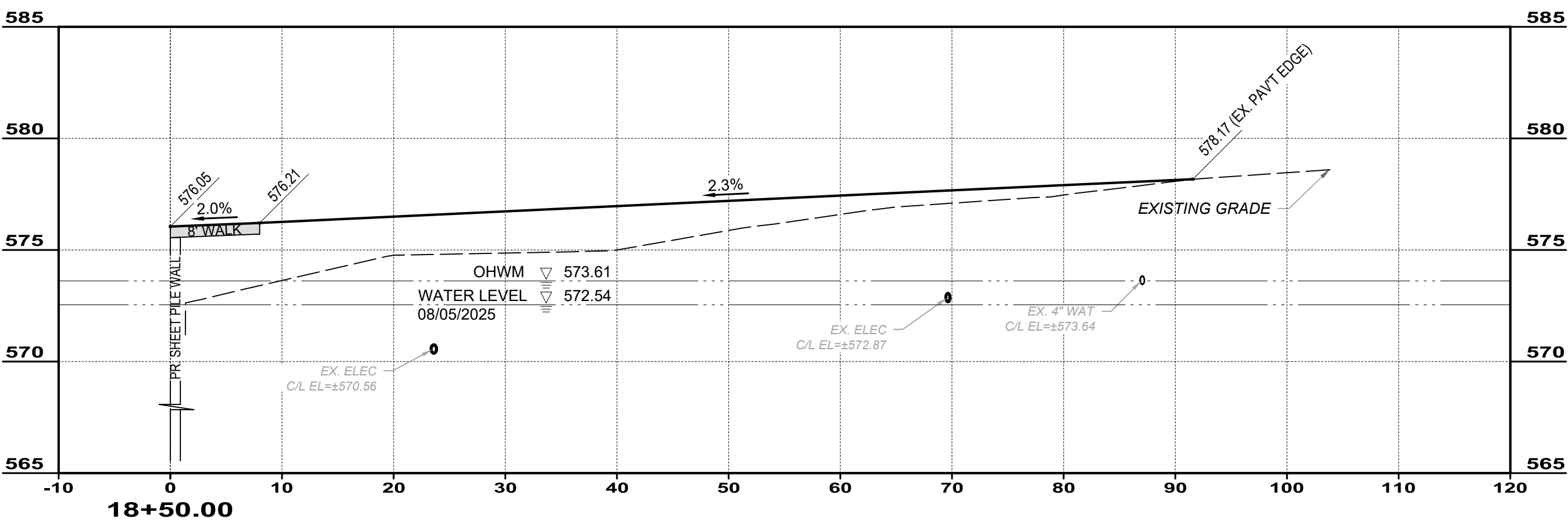
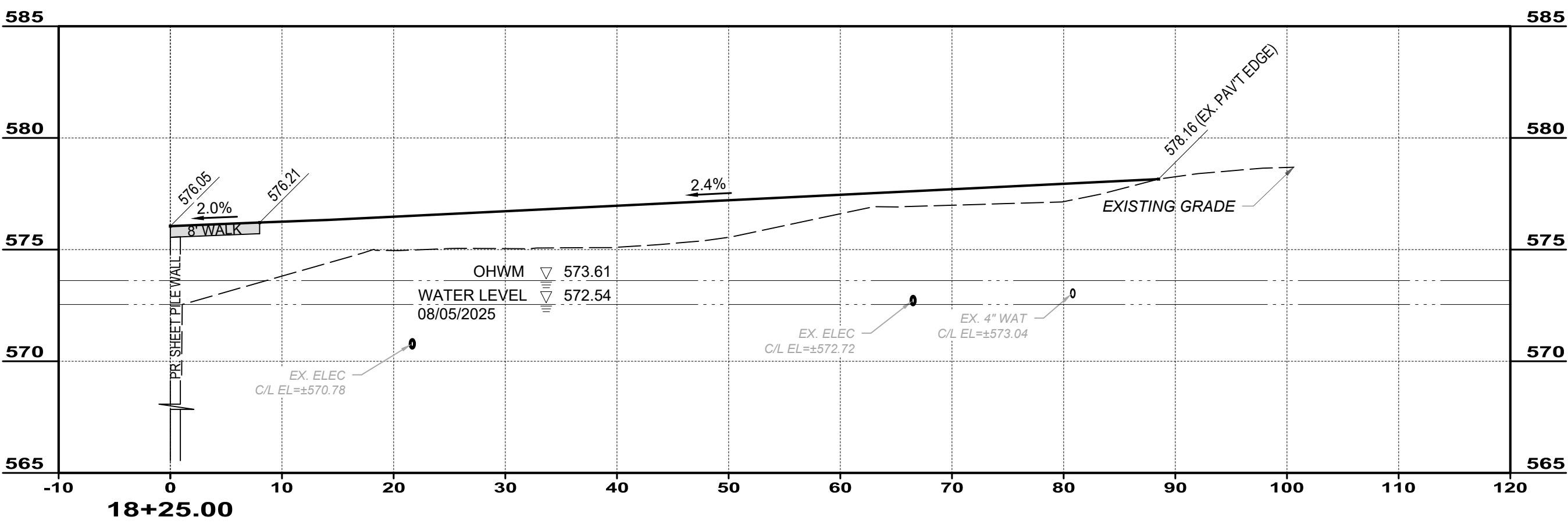
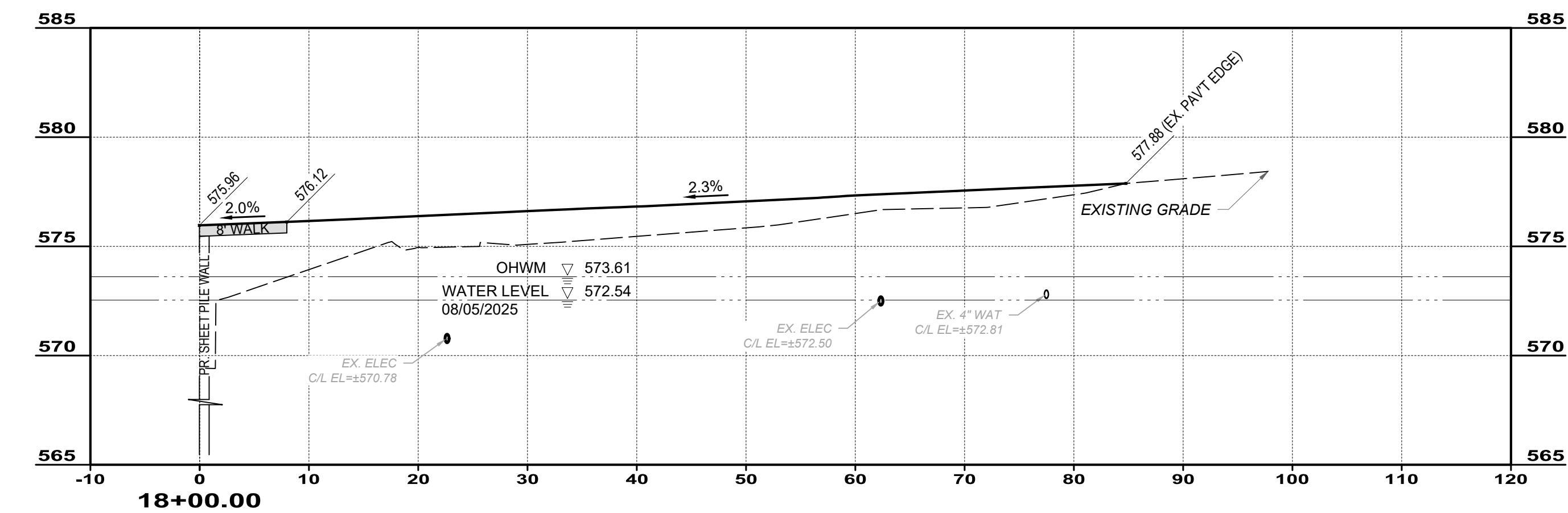
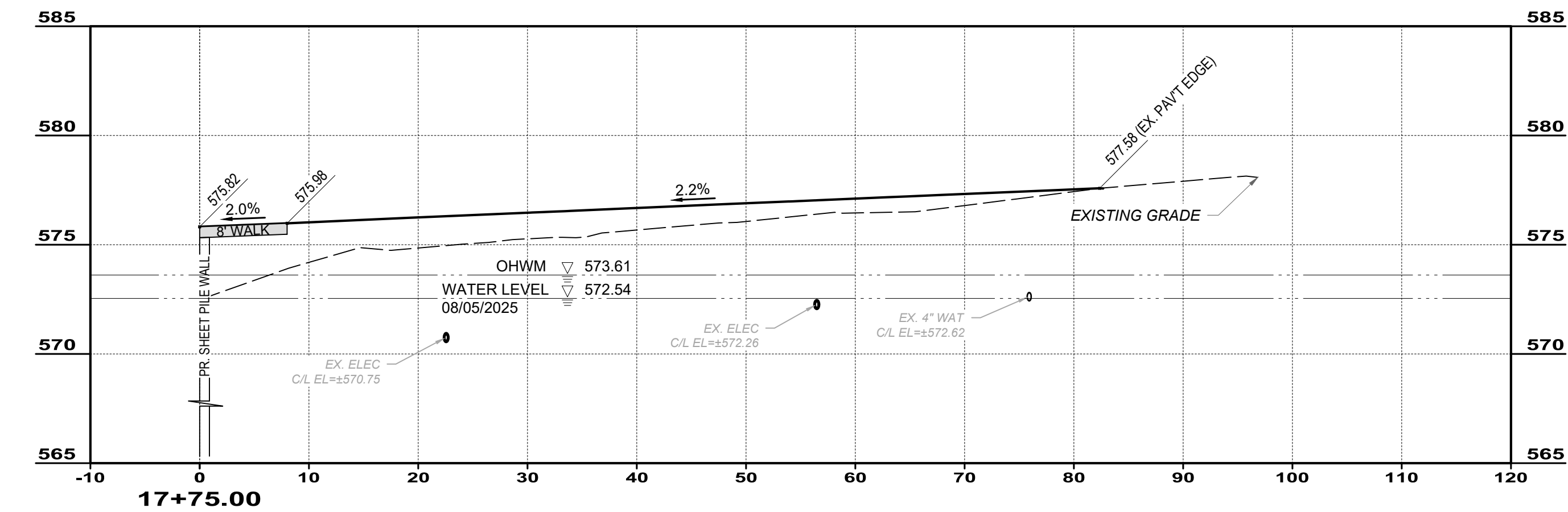
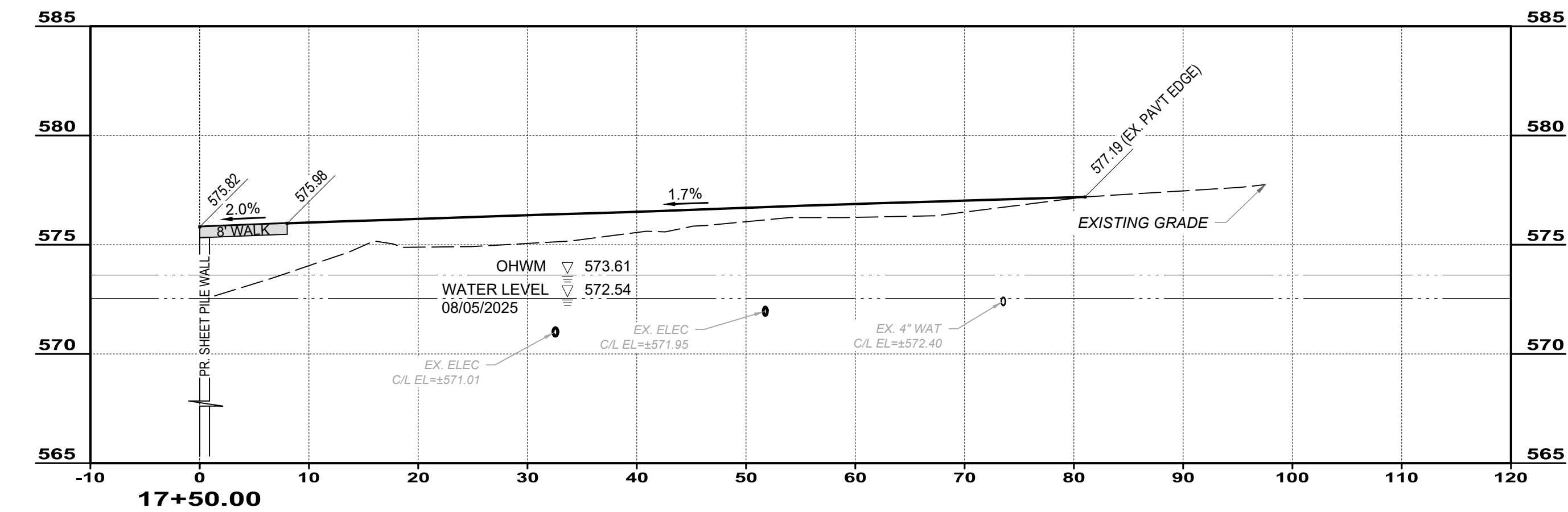
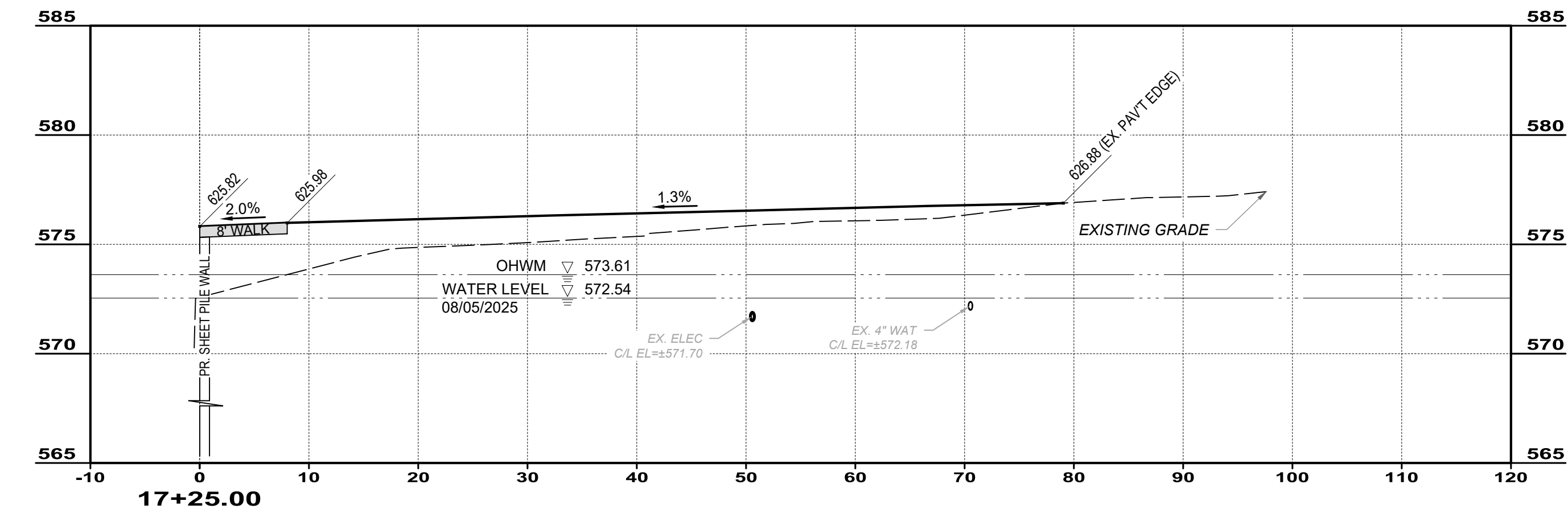


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CITY OF MENTOR
MENTOR LAGOONS BULKHEAD, PHASE 7
LAKE COUNTY, OHIO

CROSS SECTIONS 1

PROJECT NO.	
34886	
DISCIPLINE	
CIVIL	
SHEET NAME	
X-SEC 1	
SHEET	OF
6	10

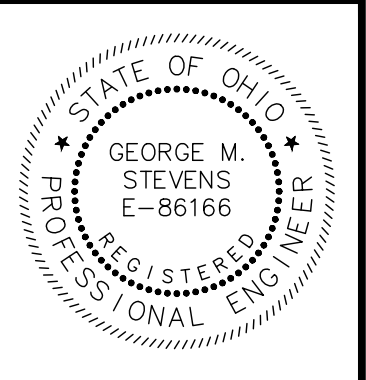
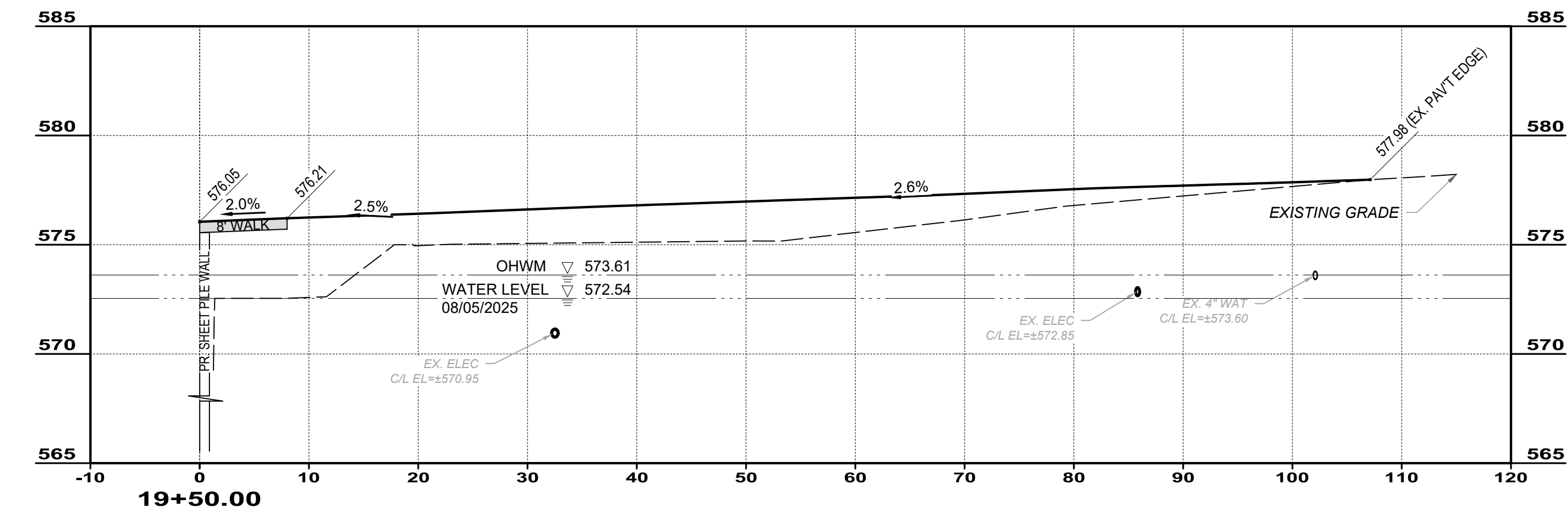
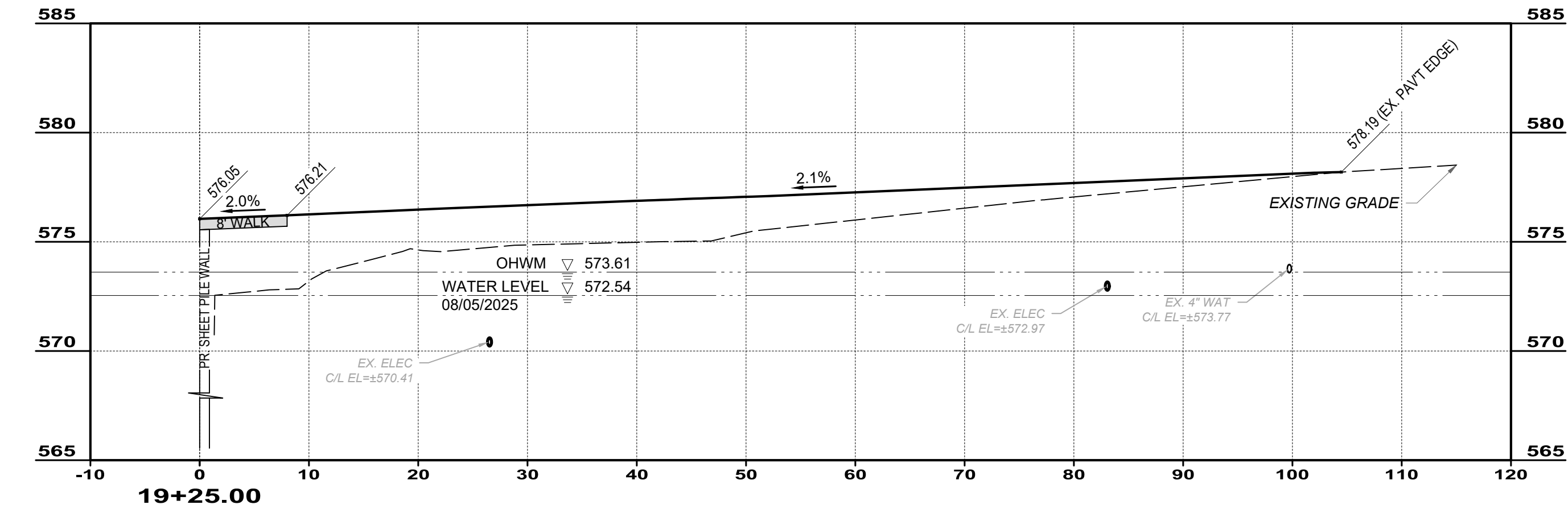


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CITY OF MENTOR		1/6/2026			
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SCALE:		GMS		NO	
AS SHOWN					
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GMS					
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TJM					
CHECKED BY:		GMS			
GMS					

CITY OF MENTOR
MENTOR LAGOONS BULKHEAD, PHASE 7
LAKE COUNTY, OHIO

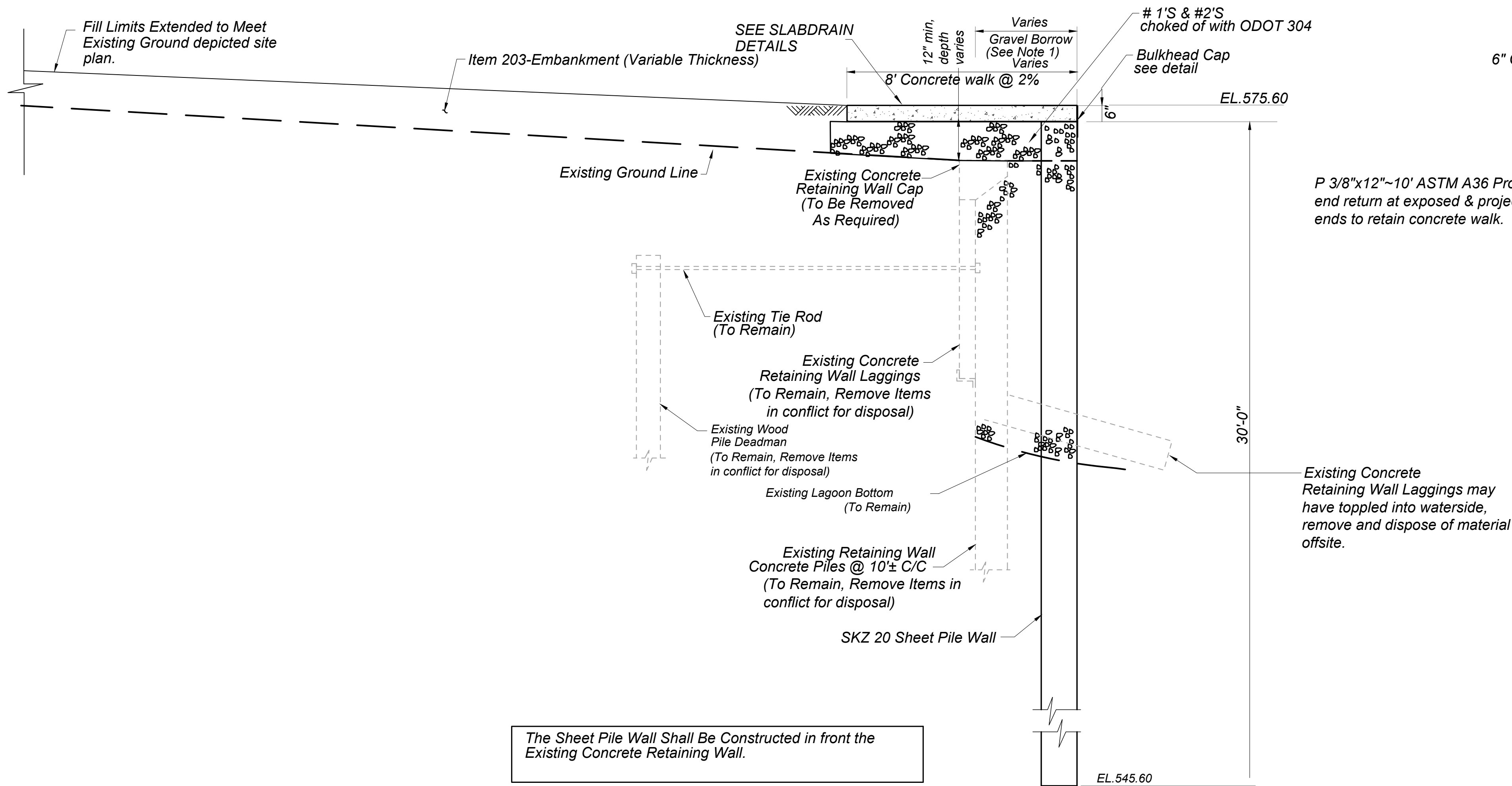
CROSS SECTIONS 2

PROJECT NO.	
34886	
DISCIPLINE	
CIVIL	
SHEET NAME	
X-SEC 2	
SHEET	OF
7	10



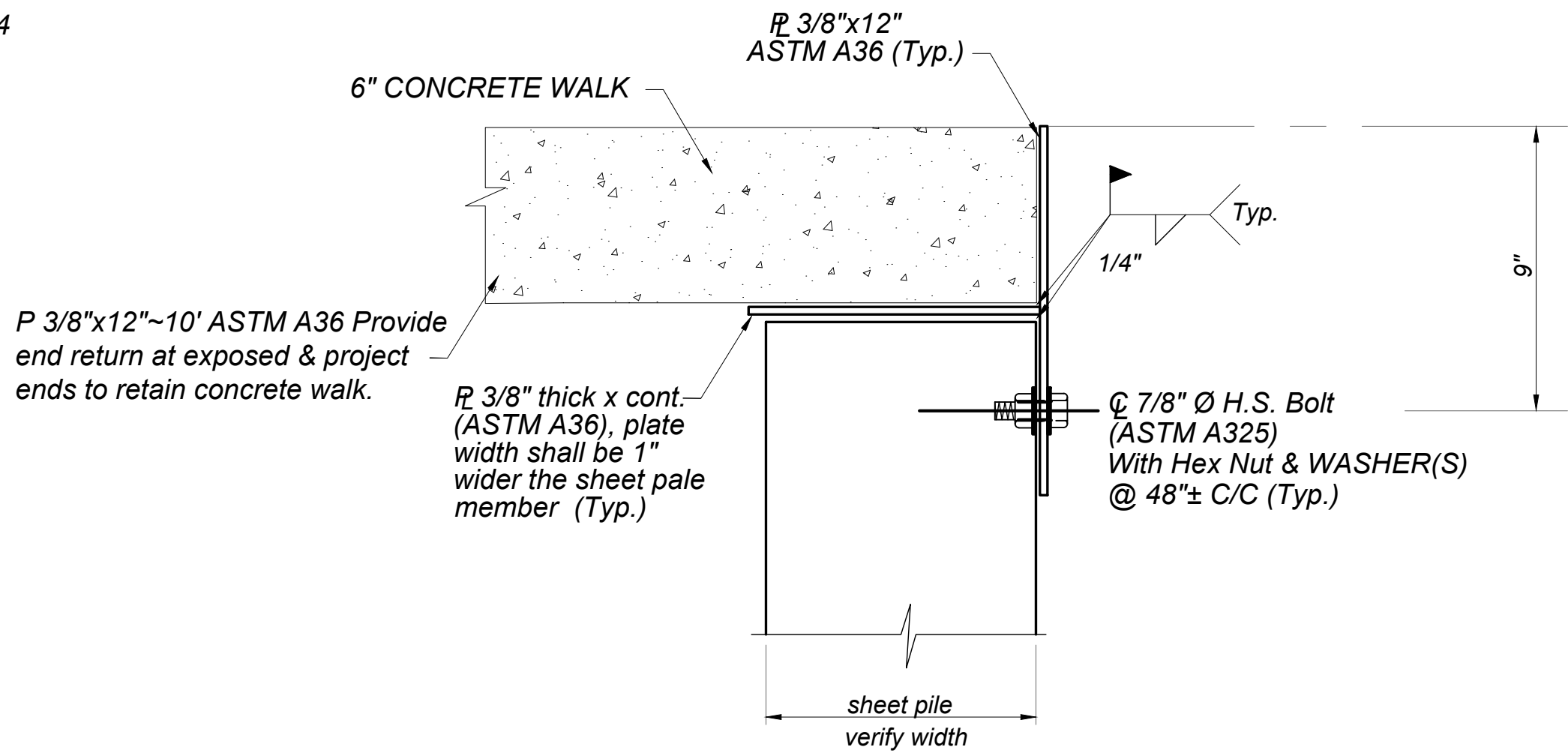
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CITY OF MENTOR MENTOR LAGOONS BULKHEAD, PHASE 7 LAKE COUNTY, OHIO	CROSS SECTIONS 3	

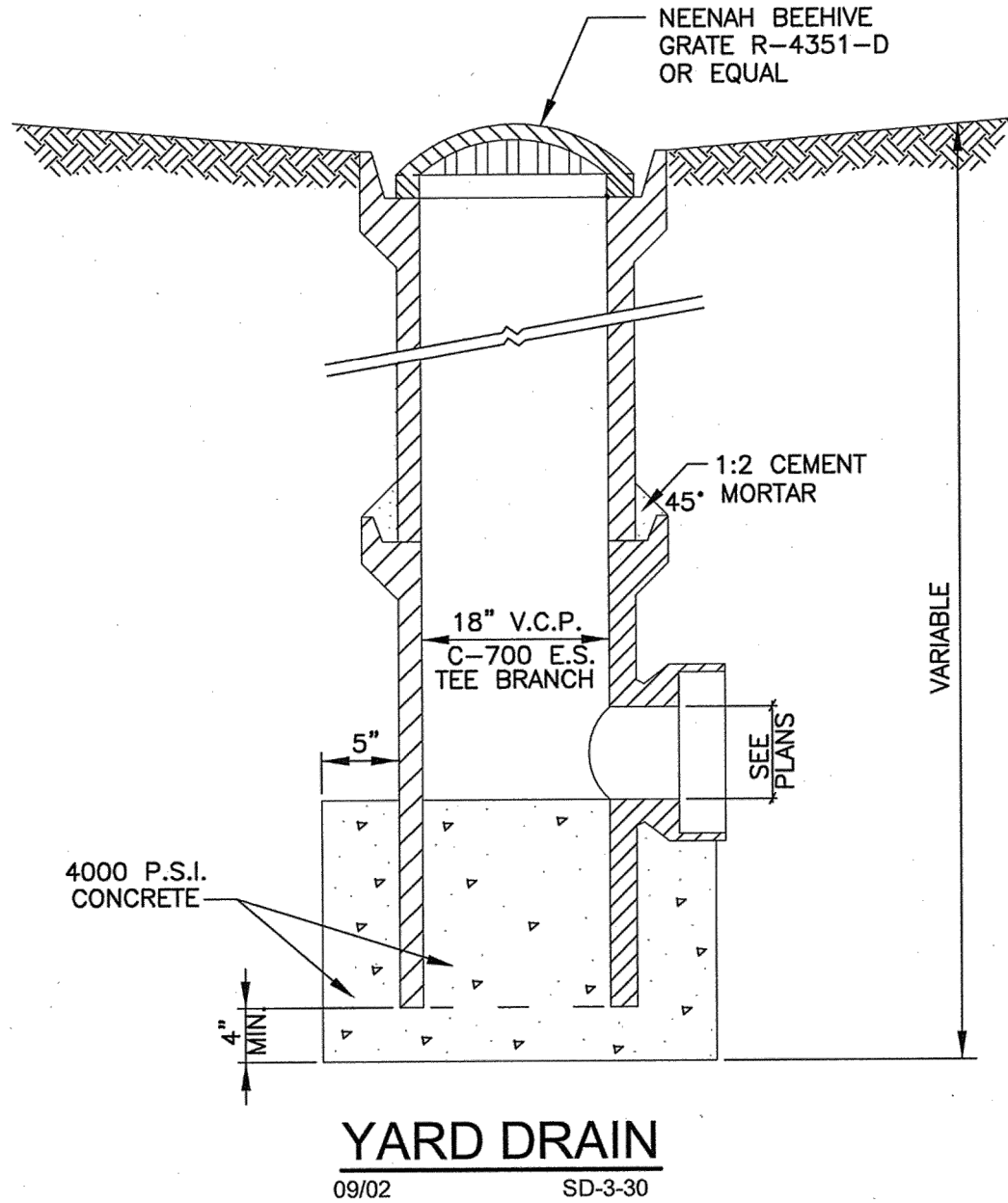


CANTILEVER SHEET PILE RETAINING WALL TYPICAL SECTION

REFER TO SPECIFICATIONS FOR REQUIRED MINIMUM MATERIAL PROPERTIES.



BULKHEAD CAP DETAIL WITH SLAB



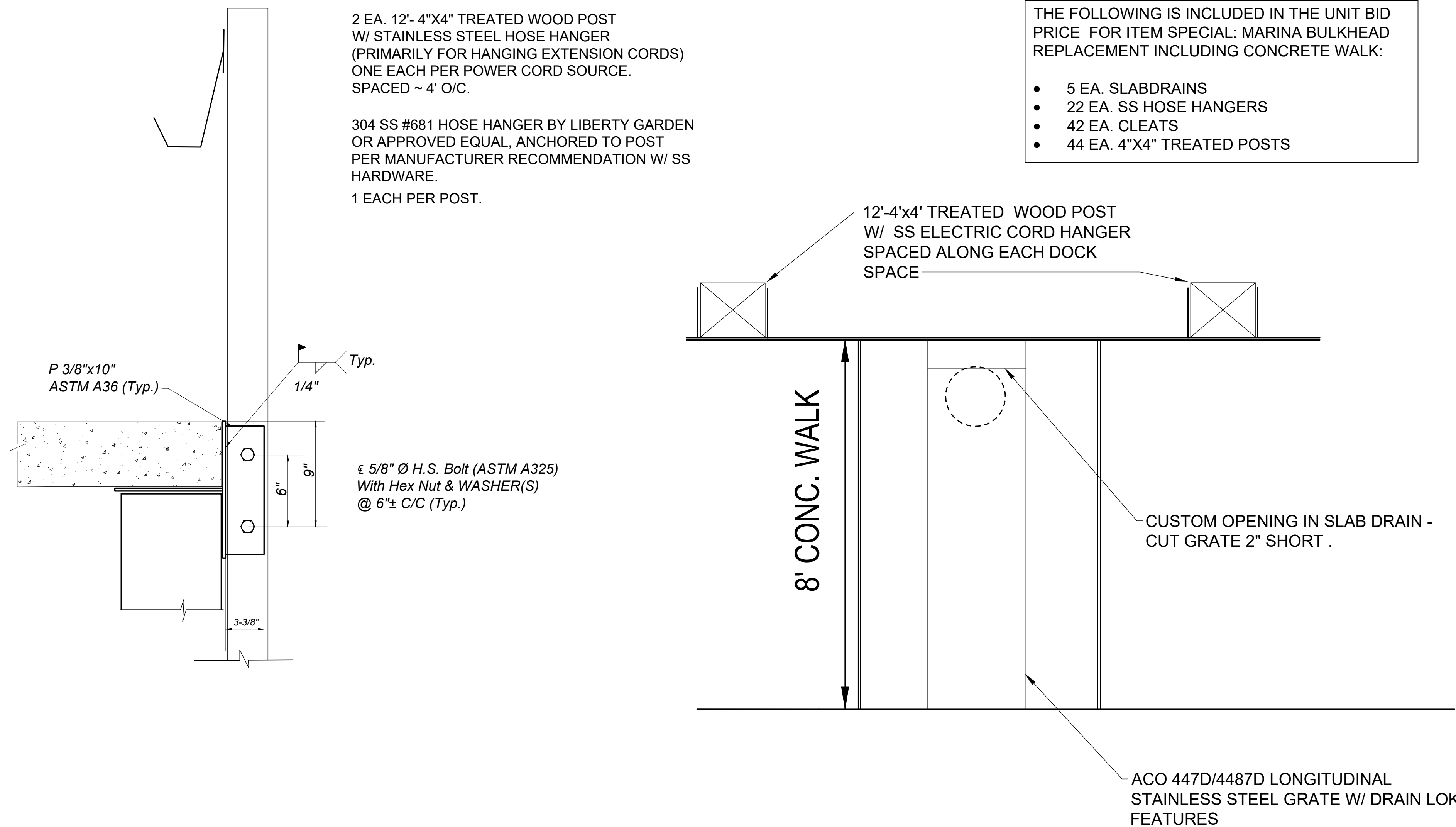
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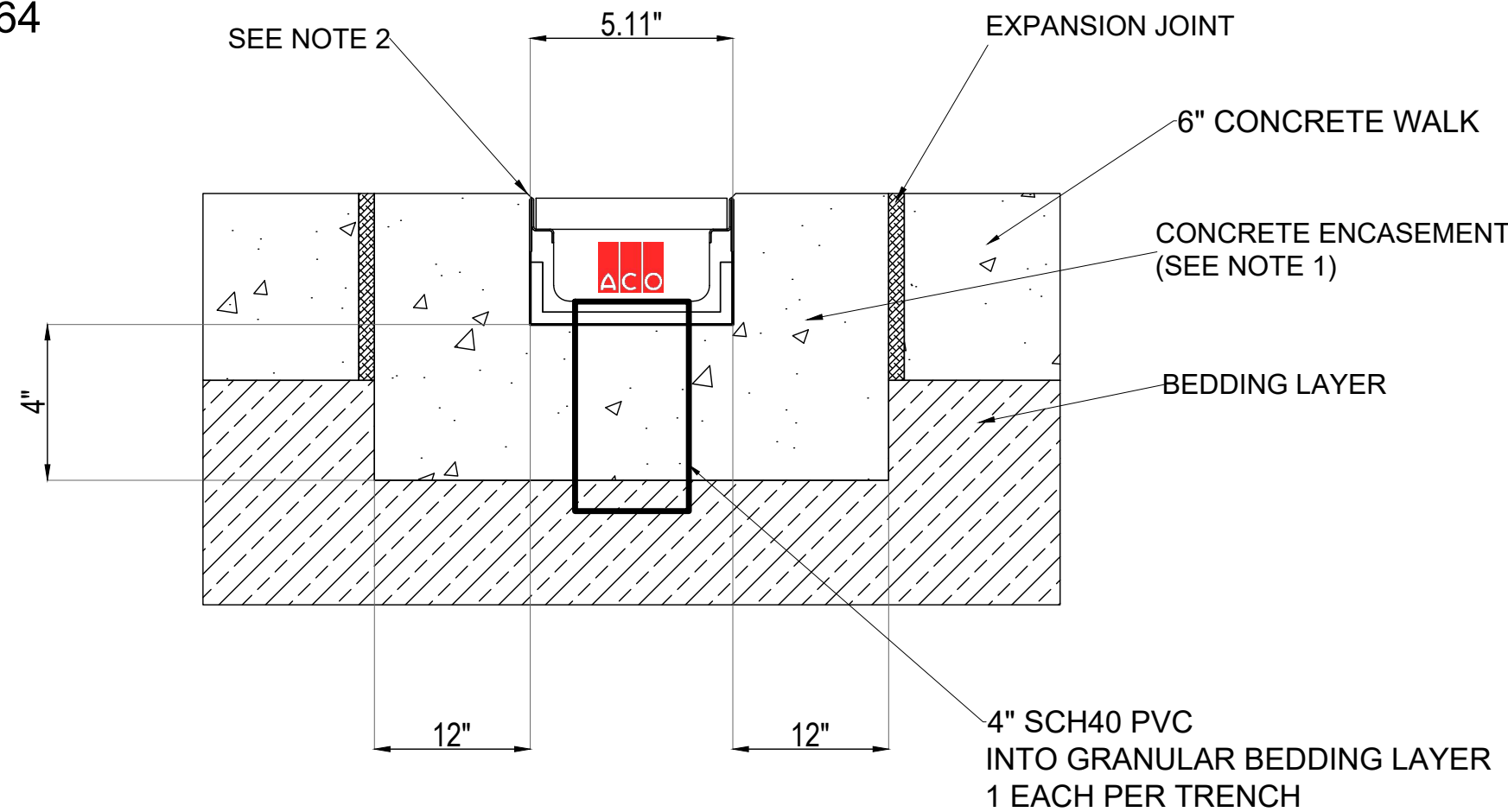
CITY OF MENTOR
MENTOR LAGOONS BULKHEAD, PHASE 7
LAKE COUNTY, OHIO

DETAILS 1

PROJECT NO. 34886	
DISCIPLINE CIVIL	
SHEET NAME DT-1	
SHEET 9	OF 10

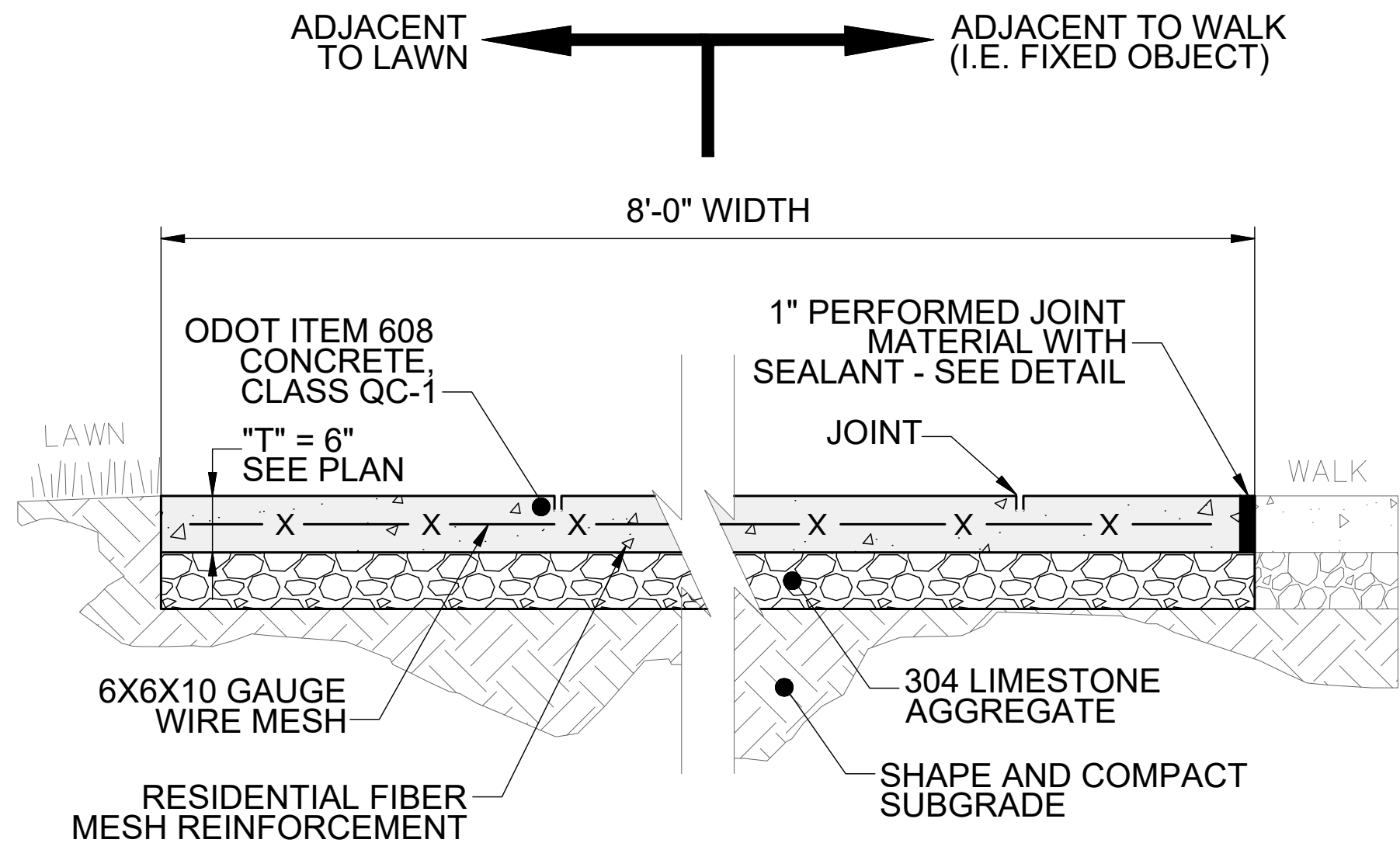
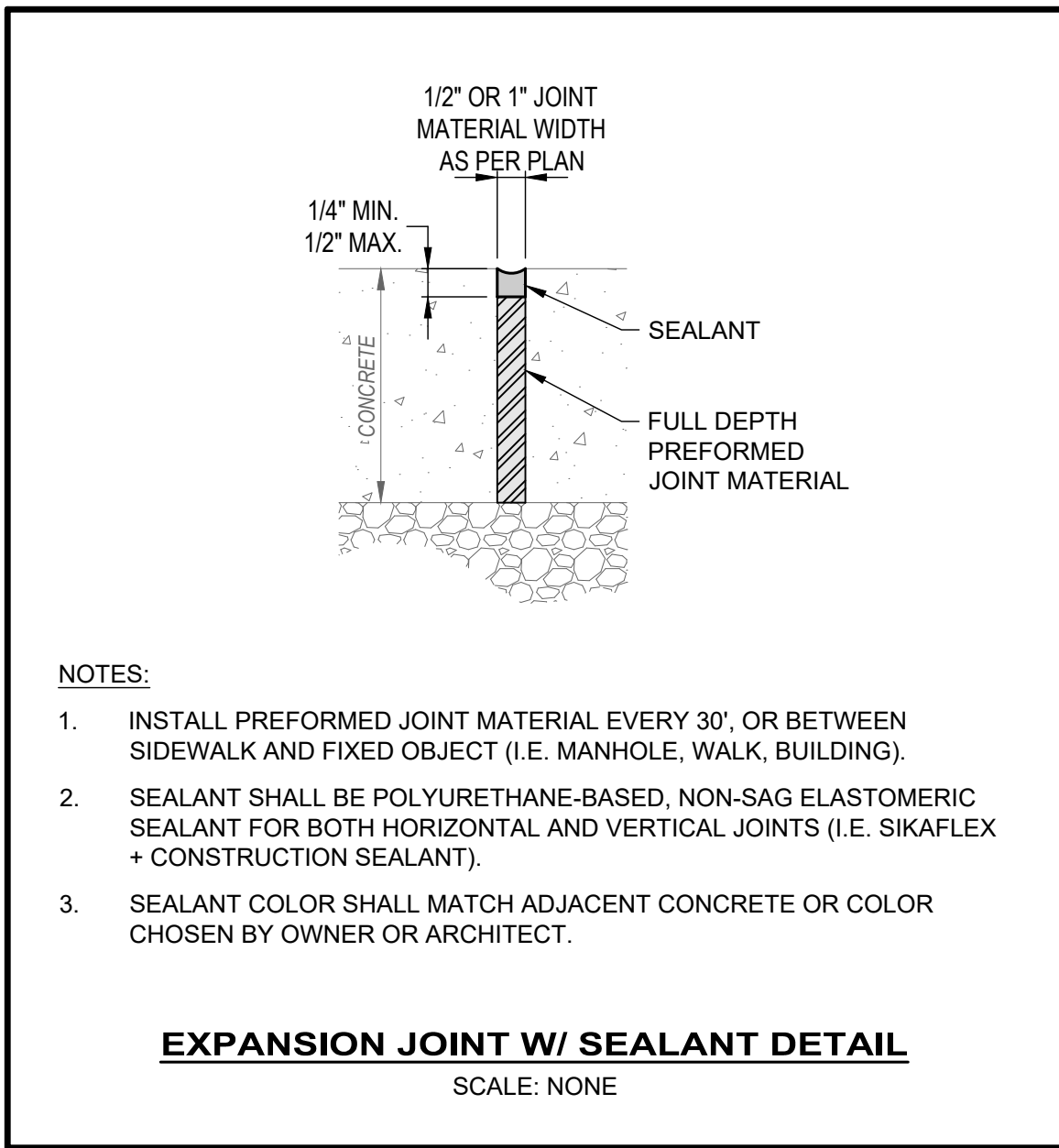


ACO, NEO
9470 PINECONE DR
MENTOR, OHIO
800.543.4764



SPECIFICATION SLABDRAIN H100K-8

- NOTES:
1. A minimum concrete strength of 4000 PSI.
 2. The finished level of the concrete encasement must be approximately 1/8" above the top of the channel edge.
 3. Expansion and crack control joints are required.
 4. For further details, refer to ACO's website: www.acodrain.com.
 5. LOGITUDINAL PLASTIC GRATE SHALL BE CUSTOM MODIFIED TO HAVE 2 INCH OPENING AT EACH END.

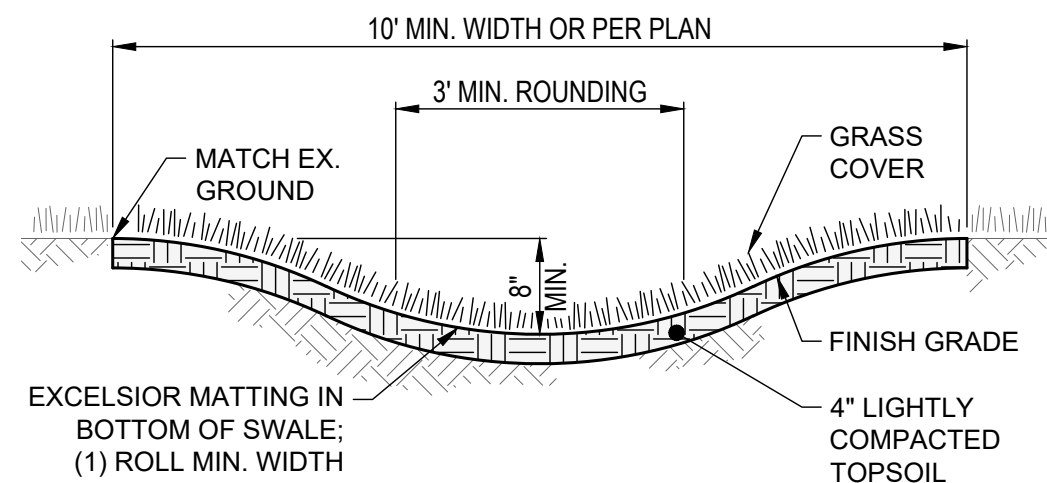


NOTES:

1. SEE LAYOUT PLAN FOR JOINT LOCATIONS. IF JOINTS ARE NOT
PROVIDED, THEN THE CONTRACTOR SHALL DETERMINE THE
LOCATION OF ALL JOINTS. DIVIDE JOINTS INTO EQUALLY
SPACED RECTANGULAR BLOCKS.
2. SAW CUT OR HAND TOOL JOINT 1/8" WIDE BY 1/4 OF "T" DEEP.
3. ROUND ALL EDGES AND JOINTS WITH A 1/4" RADIUS.
4. INSTALL PERFORMED JOINT MATERIAL EVERY 30', OR
BETWEEN SIDEWALK AND FIXED OBJECT (I.E. MANHOLE,
WALK, BUILDING). WALK SHOWN FOR REFERENCE ONLY.
5. LIGHTLY BROOM THE FINISH PERPENDICULAR TO THE
WALKING PATH OR PER PLAN. IF HAND TOOLED JOINTS AND
EDGES ARE SPECIFIED, FINISH AFTER PANEL INTERIOR
TEXTURE HAS BEEN APPLIED (I.E. WINDOW PANE EFFECT).
6. APPLY LIQUID-MEMBRANE CURING COMPOUND (200 S.F./GAL.)

CONCRETE WALK DETAIL

SCALE: NONE



NOTES:

1. THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; SEE
GRADING PLAN FOR ACTUAL WIDTH AND CONFIGURATION.
2. PLACE TOPSOIL AND FINE GRADE TO A SMOOTH FINISH, FREE OF
LUMPS AND DEPRESSIONS.
3. AFTER LIGHT ROLLING, GRASS SWALE SHALL MEET THE GRADES,
ELEVATIONS AND SLOPES SHOWN ON THE GRADING PLANS

GRASS SWALE DETAIL

SCALE: NONE



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CITY OF MENTOR
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LAKE COUNTY, OHIO

DETAILS 2

PROJECT NO.	34886
DISCIPLINE	CIVIL
SHEET NAME	DT-2
SHEET	OF
10	10