
Index 455-500

Temporary Steel Sheet Pile Wall

ORIGINATION

Date: 07/08/2026

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COMMENTARY

New Standard Plan Index for Temporary Steel Sheet Pile Wall.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **BLUE** = Standard Plans Response **GREEN** = Change Made to Index

Name: Cory Hill

Date: 09/03/26

COMMENTS:

1. Index 455-500: By inspection of the latest FDM 262 for Critical and Non-Critical Temporary Walls, there appears to be an intended SPI to accompany Index 455-500. However, the SPI was unable to be located on the industry review landing page. Recommend all applicable design criteria, design assumptions and limitations, plan content requirements, data table examples, and/or pay item information are contained in the SPI for both the EOR to understand when this Index should be included in the contract documents and also for the Contractor's licensed design professional to refer to for proper understanding and implementation.

RESPONSE: An SPI for this index is being created and will be posted with the Standard Plan on November 1st.

2. Additionally, recommend identifying the minimum soil parameter requirements/criteria that drive these predetermined sheet pile wall solutions. Circumstances with poorer soil conditions may not fall within the confines of the analysis used to define these predetermined solutions and require a custom wall design.

RESPONSE: Agree, the required soil parameters are defined in the SPI.

3. Index 455-500, Sheet 1 of 2: Recommend adding a "Front Face of Sheet Pile Wall" or similar call out to the Sheet Pile Wall Section.

RESPONSE: Agree, this will be added.

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4. Index 455-500, Sheets 1 of 2 and 2 of 2: Recommend adding “Cantilever” to the sheet titles between Temporary and Steel to match the description on sheet 1 of 2 “temporary cantilever steel sheet pile wall” and better represent the wall type so it cannot be mistaken for an anchored wall.

RESPONSE: Noted the title and note will be changed to match.

5. Index 455-500, Sheet 1 of 2: Recommend renaming Detail “A” – Sheet Pile Wall to “Sheet Pile Wall Typical Section” to better represent the graphic.

RESPONSE: Agreed, will incorporate this change.

6. Index 455-500, Sheet 1 of 2: Recommend adding “(see Index 102-100)” to the Temporary Barrier call out within Detail “A” to guide the user to the appropriate Index content.

RESPONSE: Agreed.

7. Index 455-500, Sheet 1 of 2: In regard to the setback distance call out within Detail “A”, Index 102-100 calls for a setback distance of 2'-0" for an anchored temporary barrier and 4'-0" for a free-standing temporary barrier. Recommend clarifying barrier type if 2'-0" is considered the minimum. Otherwise, recommend allowing the Temporary Barrier Index 102-100 to control setback geometry to avoid potential geometry conflict.

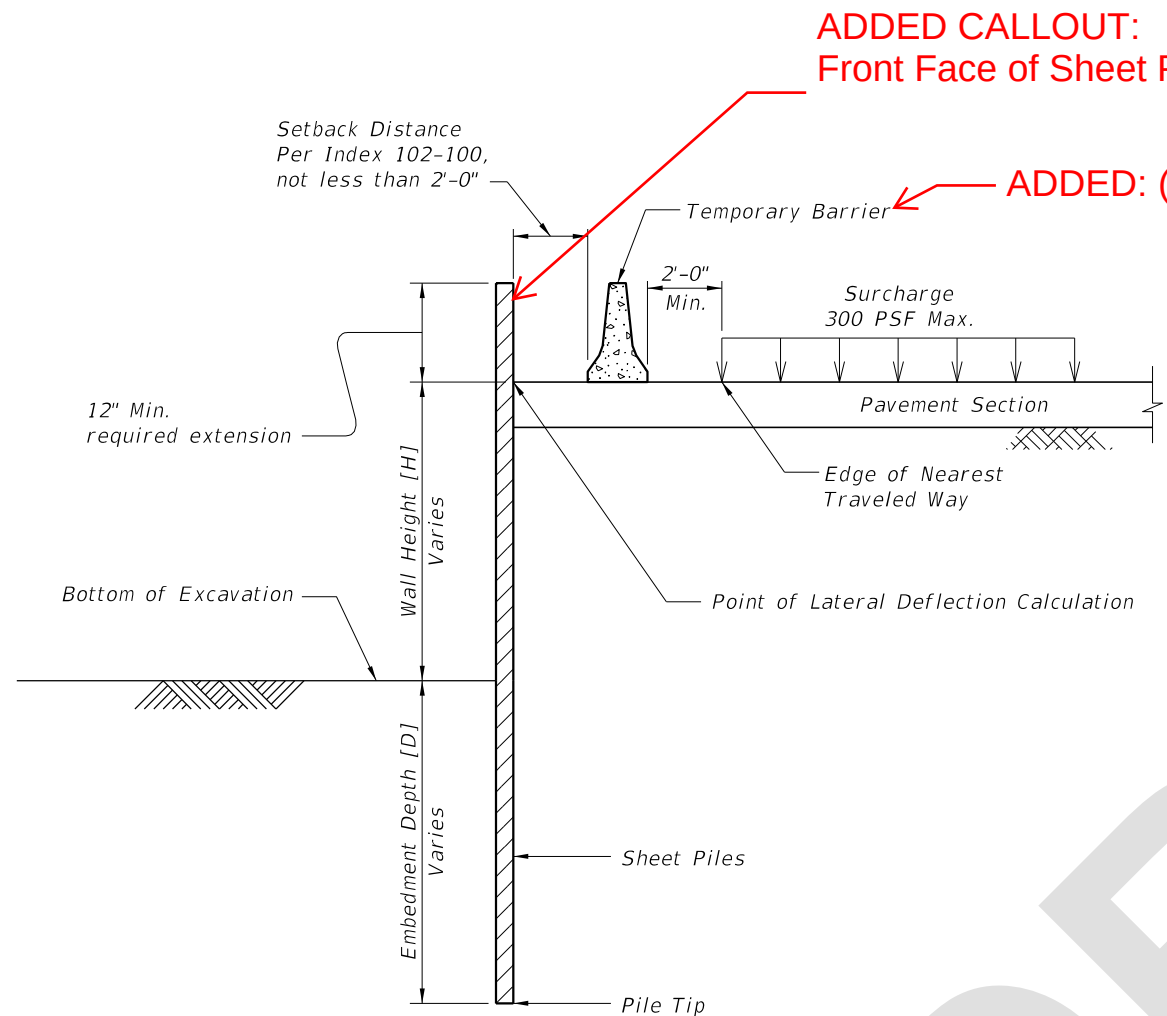
RESPONSE: Any required setback distance of 2' or greater is acceptable for use of this standard. If a setback distance less than 2' is required, then this standard is not considered acceptable use.

8. Index 455-500, Sheet 2 of 2: Aesthetically, recommend centering the "Minimum Moment of Inertia" column header within its cell, for all cases.

RESPONSE: Agreed.

CHANGE MADE TO INDEX: YES

Response Date:



DETAIL "A" - ~~SHEET PILE WALL~~

ADDED CALLOUT:
Front Face of Sheet Pile Wall

ADDED: (See Index 102-100)

CHANGED TO:
SHEET PILE
WALL TYPICAL
SECTION

NOTES

DESCRIPTION:

This Index provides the steel sheet pile section and embedment requirements for temporary cantilever steel sheet pile walls.

MATERIALS:

Meet material requirements of Specification 962 for Steel Sheet Pile.

CONSTRUCTION:

Construct sheet pile walls in accordance with Specification 455.

SHOP DRAWINGS:

Submit shop drawings for approval when the TEMPORARY CANTILEVER STEEL SHEET PILE WALL DATA TABLE is not included in the Plans.

ADDED:CANTILEVER

LAST REVISION 11/01/26	REVISION	DESCRIPTION:		FY 2027-28 STANDARD PLANS	TEMPORARY STEEL SHEET PILE WALL	INDEX 455-500	SHEET 1 of 2
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Alignment

Case 1: Groundwater at Excavation Elevation with 3 feet of Head Differential					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ ./ft.)		Minimum Moment of Inertia (in ⁴ ./ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	15.5	6	5	14	7
7	17.5	9	7	25	13
8	19	13	10	43	21
9	21	18	14	70	35
10	23	24	19	112	57
11	24.5	31	24	170	84
12	26.5	38	30	252	127
13	28	48	37	365	182
14	30	58	45	503	252
15	31.5	70	55	694	348

Case 2: Groundwater at 2 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ ./ft.)		Minimum Moment of Inertia (in ⁴ ./ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	8	3	2	4	2
7	9.5	4	3	7	4
8	11.5	6	5	14	8
9	13	9	7	25	13
10	15	13	10	43	22
11	16.5	17	14	69	34
12	18.5	23	18	112	57
13	20	30	23	170	85
14	22.5	38	30	251	125
15	24	47	37	360	181

Case 3: Groundwater at 4 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ ./ft.)		Minimum Moment of Inertia (in ⁴ ./ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	7	3	2	3	2
7	8.5	4	3	6	4
8	9.5	5	4	12	7
9	11	8	6	20	10
10	12.5	11	8	35	18
11	14	14	11	58	30
12	15.5	19	15	90	46
13	17	24	19	135	68
14	18.5	31	24	199	100
15	20.5	38	30	284	140

Case 4: Groundwater at 8 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ ./ft.)		Minimum Moment of Inertia (in ⁴ ./ft.)	
		A-328 (Fy-39 ksi)	A-572 (Fy-50 ksi)	1.5" Lateral Deflection	3.0" Lateral Deflection
6	7	3	2	3	2
7	8	4	3	6	4
8	9.5	5	4	12	7
9	10.5	8	6	20	10
10	11.5	10	8	33	17
11	12.5	14	11	54	27
12	14	17	14	82	41
13	15	22	17	121	61
14	16.5	28	22	175	88
15	17.5	34	26	249	125

Notes:

- Minimum Plastic Section Modulus requirements are for hot-rolled sections. For cold-rolled sections, increase the Minimum Section Modulus by 20%.
- Use 1.5" Lateral Deflection when supported paved roadway will not be paved or resurfaced after the wall deflects. Use 3" Lateral Deflection when supported paved roadway will be paved or resurfaced after the wall deflects, or the supported roadway is unpaved.

ADDED:CANTILEVER

LAST
REVISION
11/01/26

REVISION
DESCRIPTION:

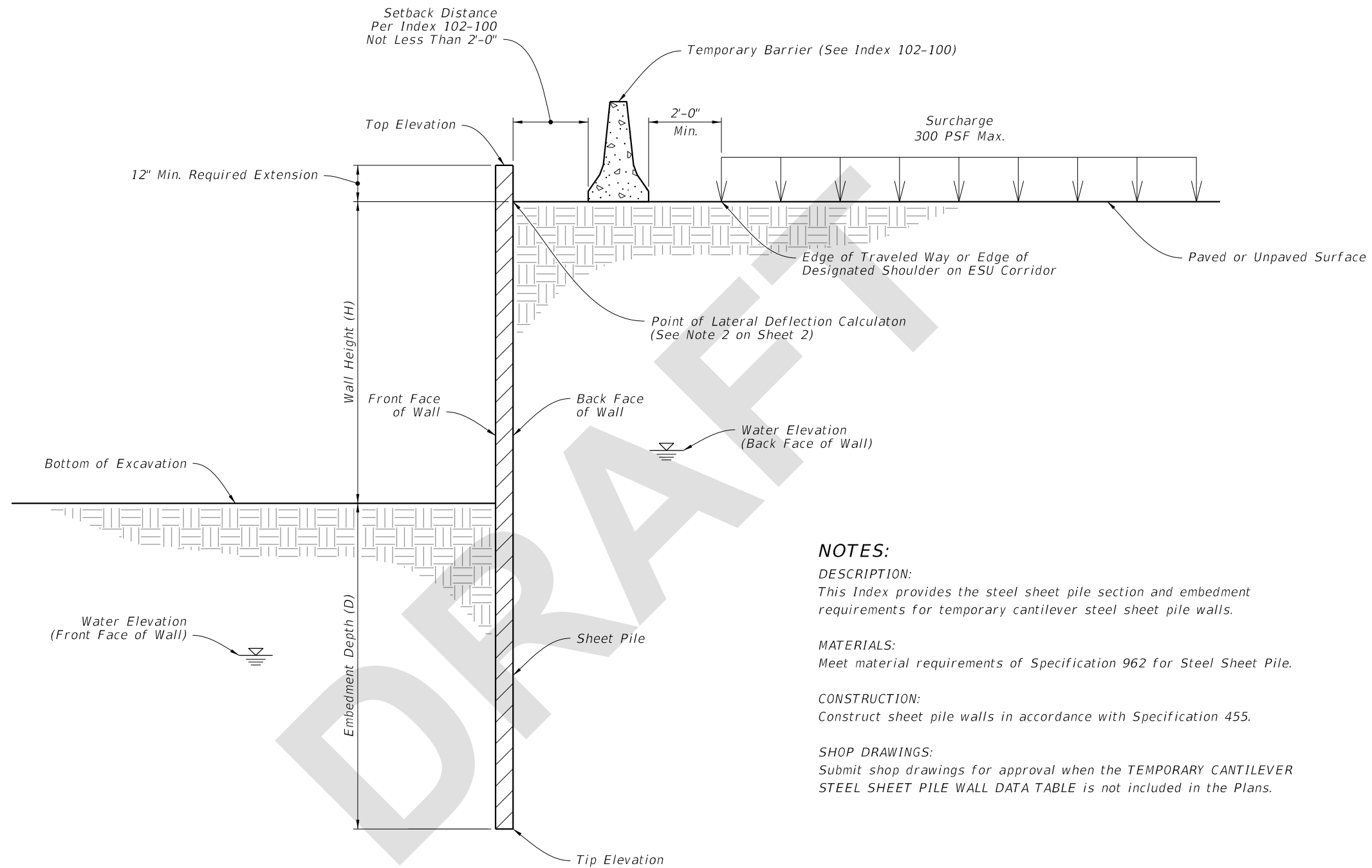


FY 2027-28
STANDARD PLANS

TEMPORARY STEEL SHEET PILE WALL

INDEX
455-500

SHEET
2 of 2



NOTES:

DESCRIPTION:

This Index provides the steel sheet pile section and embedment requirements for temporary cantilever steel sheet pile walls.

MATERIALS:

Meet material requirements of Specification 962 for Steel Sheet Pile.

CONSTRUCTION:

Construct sheet pile walls in accordance with Specification 455.

SHOP DRAWINGS:

Submit shop drawings for approval when the TEMPORARY CANTILEVER STEEL SHEET PILE WALL DATA TABLE is not included in the Plans.

SHEET PILE WALL
(Typical Section)

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LAST REVISION 11/01/26	REVISION DESCRIPTION:	 FY 2027-28 STANDARD PLANS	TEMPORARY CANTILEVER STEEL SHEET PLIE WALL	INDEX 455-500	SHEET 1 of 2
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Case 1: Groundwater at Excavation Elevation with 3 feet of Head Differential					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
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13	20	30	23	170	85
14	22.5	38	30	251	125
15	24	47	37	360	181

Case 3: Groundwater at 4 feet Below Bottom of Excavation					
Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
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Wall Height H (ft.)	Minimum Embedment D (ft.)	Minimum Plastic Section Modulus (in ³ /ft.)		Minimum Moment of Inertia (in ⁴ /ft.)	
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