

DRAFT

Subappendix F4-1 – Alternative 1 Plan Set For the Feasibility Study of Rebuild by Design Meadowlands Flood Protection Project

June 2018



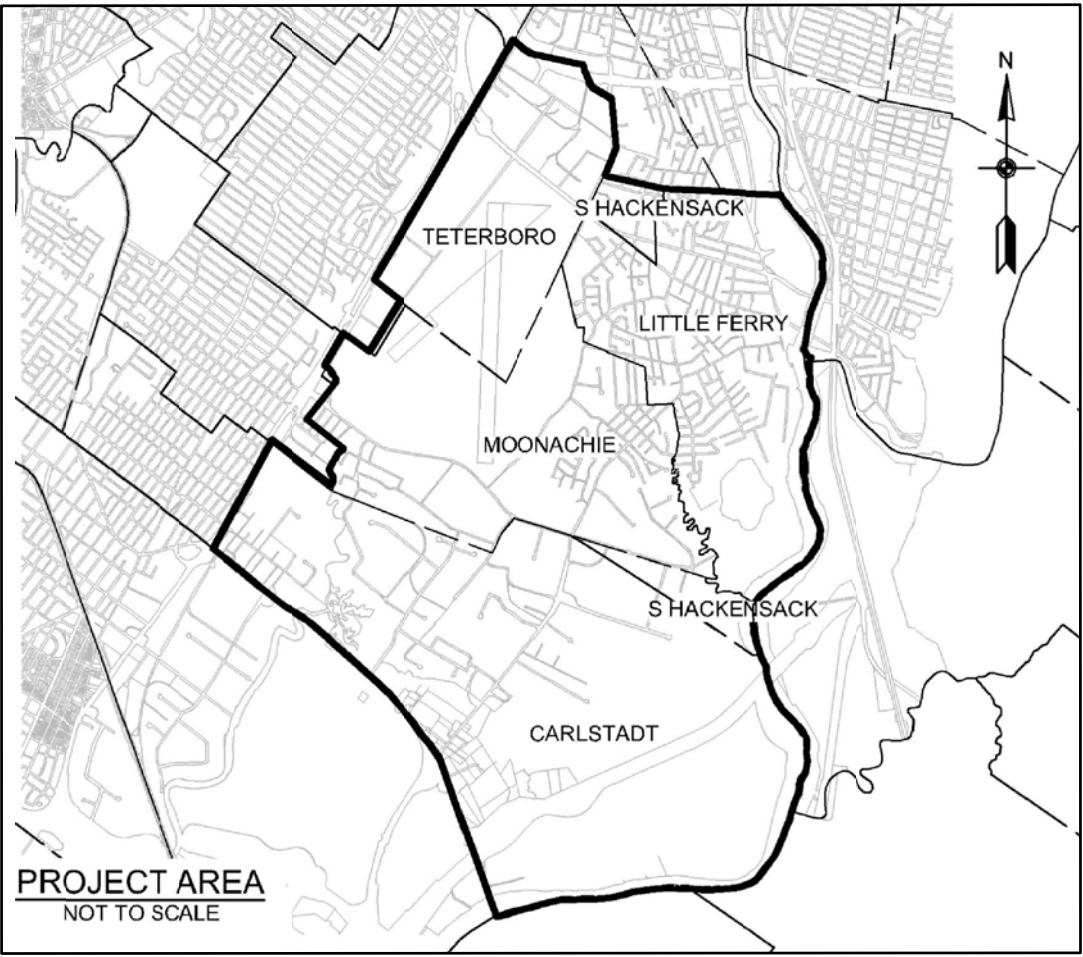
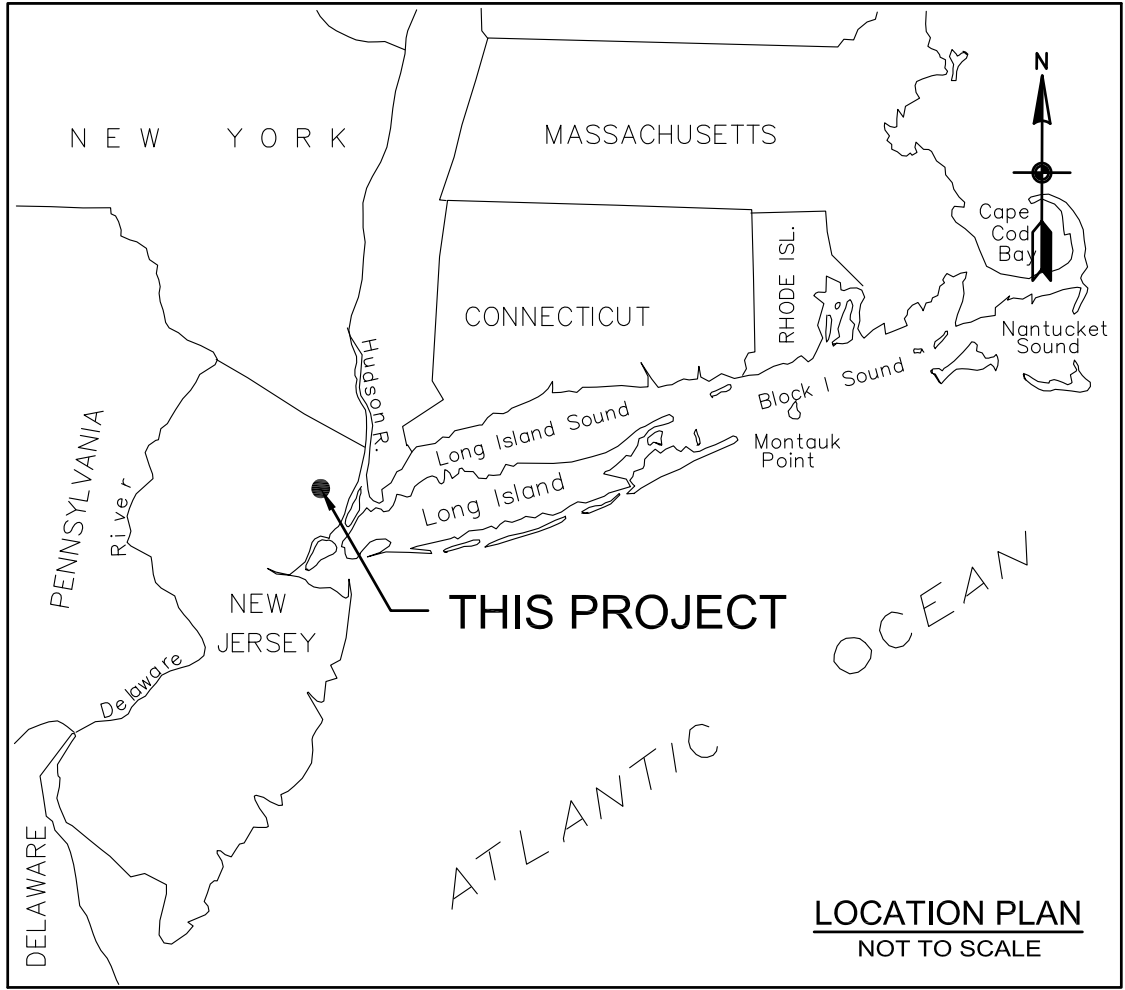
**Boroughs of Little Ferry, Moonachie, Carlstadt, and Teterboro
and the Township of South Hackensack, Bergen County, New Jersey**

REBUILD BY DESIGN
MEADOWLANDS



Prepared by **AECOM** for the State of New Jersey Department of Environmental Protection

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RBD MEADOWLANDS FEASIBILITY STUDY PLAN SET ALTERNATIVE 1

X-XXX

DISCIPLINE PANEL NO./PAGE TITLE

LEGEND FOR SHEET LABELS	
G	GENERAL
CH	CIVIL HACKENSACK
CB	CIVIL BERRY'S CREEK
LH	LANDSCAPE HACKENSACK
S	STRUCTURAL

SHEET LIST	
SHEET NO.	TITLE
	<u>GENERAL</u>
G-001	ALTERNATIVE 1- ELEVATION 7 - COVER SHEET
G-002	ALTERNATIVE 1- ELEVATION 7 - LEGEND AND GENERAL NOTES
G-003	ALTERNATIVE 1- ELEVATION 7 -PANELING KEY
	<u>PLANS</u>
CH-101	ALTERNATIVE 1-ELEVATION 7-NORTHERN ALIGNMENT
CH-102	ALTERNATIVE 1-ELEVATION 7-NORTHERN ALIGNMENT
CH-103	ALTERNATIVE 1-ELEVATION 7-NORTHERN ALIGNMENT
CH-104	ALTERNATIVE 1-ELEVATION 7-NORTHERN ALIGNMENT
LH-105	ALTERNATIVE 1-ELEVATION 7-NORTHERN ALIGNMENT
LH-107	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-108	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-109	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-110	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-111	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-112	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-113	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-114	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-115	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-116	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-117	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-118	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-119	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-120	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-121	ALTERNATIVE 1-ELEVATION 7-CENTRAL HACKENSACK ALIGNMENT
CH-122	ALTERNATIVE 1-ELEVATION 7-SOUTHERN ALIGNMENT
CH-123	ALTERNATIVE 1-ELEVATION 7-SOUTHERN ALIGNMENT
CH-124	ALTERNATIVE 1-ELEVATION 7-SOUTHERN ALIGNMENT
CB-130	ALTERNATIVE 1-ELEVATION 7-BERRY'S CREEK
CB-147	ALTERNATIVE 1-ELEVATION 7-BERRY'S CREEK
CB-148	ALTERNATIVE 1-ELEVATION 7-BERRY'S CREEK
	<u>ENLARGEMENT PLANS</u>
CB-201	ALTERNATIVE 1 - ELEVATION 7 BERRY'S CREEK STORM SURGE BARRIER SITE PLAN
CB-202	ALTERNATIVE 1 - ELEVATION 7 BERRY'S CREEK STORM SURGE BARRIER SITE SECTIONS
LH-201	ENLARGEMENT LANDSCAPE PLANS

SHEET LIST	
SHEET NO.	TITLE
	<u>PROFILES</u>
CH-301	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 0+00 TO STA. 20+00
CH-302	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 20+00 TO STA. 40+00
CH-303	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 40+00 TO STA. 60+00
CH-304	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 60+00 TO STA. 80+00
CH-305	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 80+00 TO STA. 100+00
CH-306	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 100+00 TO STA. 120+00
CH-307	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 120+00 TO STA. 140+00
CH-308	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 140+00 TO STA. 160+00
CH-309	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 160+00 TO STA. 180+00
CH-310	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 180+00 TO STA. 200+00
CH-311	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 200+00 TO STA. 220+00
CH-312	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 220+00 TO STA. 240+00
CH-313	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 240+00 TO STA. 260+00
CH-314	ALTERNATIVE 1- ELEVATION 7 PROFILE STA. 260+00 TO STA. 268+40
	<u>STRUCTURAL SECTIONS</u>
S-401	TYPICAL STRUCTURAL SECTION – CONCRETE FLOOD WALL (T-WALL) – HEIGHT = 1' TO 6'
S-402	TYPICAL STRUCTURAL SECTION – CONCRETE FLOOD WALL (T-WALL) – HEIGHT = 6' TO 8'
S-403	TYPICAL STRUCTURAL SECTION – CONCRETE FLOOD WALL (T-WALL) – HEIGHT = 8' TO 10'
S-404	TYPICAL STRUCTURAL SECTION – DEEP FOUNDATION T WALL AND SINGLE SHEET PILE WALL
S-405	TYPICAL STRUCTURAL SECTION – DOUBLE SHEET PILE WALL
S-406	TYPICAL STRUCTURAL SECTION – CANTILEVER SHEET PILE WALKWAY BEDROCK LOWER THAN -27'
S-407	TYPICAL STRUCTURAL SECTION – CANTILEVER SHEET PILE WALKWAY BEDROCK -27' OR HIGHER
S-408	TYPICAL STRUCTURAL SECTION – CANTILEVER WALKWAY
S-409	TYPICAL STRUCTURAL SECTION – ELEVATED WALKWAY AND GRADING WITH SHEET PILE AT FLUVIAL PARK
	<u>DETAILS</u>
CH-401	TYPICAL PROTECTION DETAILS -DRAINAGE OUTLET
CH-402	TYPICAL PROTECTION DETAILS -STOP LOG GATE
CH-403	TYPICAL PROTECTION DETAILS -SWING GATE
CH-404	TYPICAL PROTECTION DETAILS -ROLLER GATE
CH-405	TYPICAL PROTECTION DETAILS -TIDE GATE STRUCTURE
LH-401	TYPICAL DETAILS - PAVEMENT
LH-402	TYPICAL DETAILS - PLANTING
LH-403	TYPICAL DETAILS - FURNISHINGS AND SCHEDULE

AECOM

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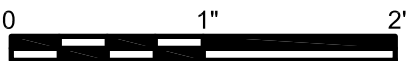
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CHECKED BY	LL/LM	03/15/18



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HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

REGISTRATION

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KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

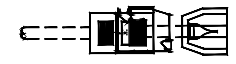
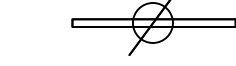
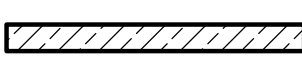
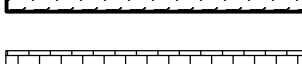
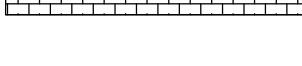
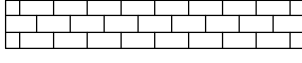
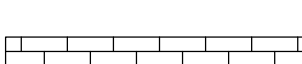
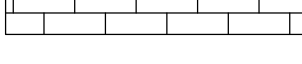
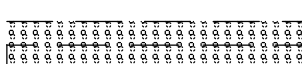
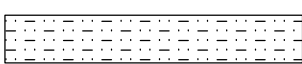
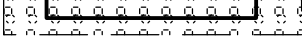
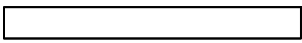
SHEET TITLE

ALTERNATIVE 1 - ELEVATION 7
COVER SHEET

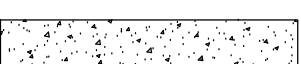
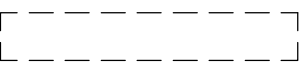
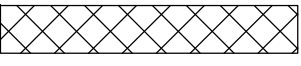
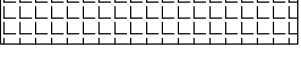
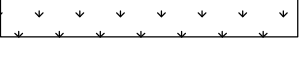
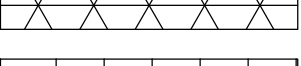
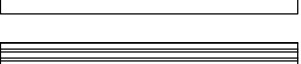
SHEET NUMBER

G-001

CIVIL/STRUCTURAL LEGEND

	EXISTING OUTLET
	PROPOSED OUTLET
	EXISTING TIDE GATE
	PROPOSED TIDE GATE
	PROPOSED FLOOD WALL (CONCRETE OR SINGLE SHEET PILE)
	PROPOSED FLOOD WALL (DOUBLE SHEET PILE)
	PROPOSED DRAINAGE SWALE
	PROPOSED CANTILEVER WALKWAY 10' W
	PROPOSED CANTILEVER WALKWAY TRANSITION
	PROPOSED CANTILEVER WALKWAY 25' W AT PUMP STATION
	PROPOSED CANTILEVER WALKWAY 25' W
	GRADING WITH SHEET PILE
	PROPOSED CANTILEVER SHEET PILE WALKWAY 16' W
	PROPOSED ROAD RAISING
	RIPRAP
	PROPOSED LEVEE
	PROPOSED CLOSURE GATE
	EXISTING CONTOUR 8
	EXISTING CONTOUR 7
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	STAGING AREA EXTENTS

LANDSCAPE LEGEND

	CONCRETE
	ELEVATED WALKWAY
	PERMEABLE PAVEMENT
	PAVERS
	TURF
	SPORTS FIELD
	NATIVE PLANTING
	PROPOSED WETLAND PLANTING
	STEEL GRATING
	PROPOSED BOAT DOCK/KAYAK LAUNCH

EXISTING UTILITIES LEGEND

(SHOWN ON ALL DISCIPLINE SHEETS)

	SD	STORM PIPE
	CP	CULVERT
	E UG	ELECTRIC UNDERGROUND LINE
	E OH	ELECTRIC OVERHEAD LINE
	UGE	ELECTRIC UNDERGROUND LINE MARKOUT
	GAS	NATURAL GAS PIPELINE
	G	NATURAL GAS MAIN
	SD	STORMWATER MAIN
		COMMUNICATION OVERHEAD
	W	POTABLE WATER MAIN
		TRAFFIC CONTROL ARM
		BCUA INTERCEPTOR
	CB	STORMWATER CATCH BASIN
	PM	STORMWATER MANHOLE
	D	STORMWATER DISCHARGE
	T	TRN MANHOLE
	S	SANITARY SEWER MANHOLE
		POTABLE WATER HYDRANT
		POTABLE WATER MANHOLE
		POTABLE WATER VALVE
		POTABLE WATER CAP
		POTABLE WATER FLAG
	PS	POTABLE WATER PUMP
		COMMUNICATIONS BOX
		COMMUNICATIONS MANHOLE
		COMMUNICATIONS POST
		COMMUNICATIONS VALVE
		ELECTRIC MANHOLE
	E	ELECTRIC BOX
		ELECTRIC MAT
		ELECTRIC PAD
		ELECTRIC TRANSFORMER
		ELECTRIC TRAFFIC CONTROL
		ELECTRIC VAULT
	M	ELECTRIC MARKOUT
		ELECTRIC METER
	E	NATURAL GAS BOX
		NATURAL GAS CAP
		NATURAL GAS FLAG
		NATURAL GAS MANHOLE
		NATURAL GAS VALVE
		NATURAL GAS PLATE
		LIGHT AND TRAFFIC POLE
		LIGHTING POLE
		OV ELECTRIC/COMM POLE
		OV ELECTRIC POLE
		OV COMMUNICATIONS POLE
		POLE - UNRECORDED UTILITIES
		UTILITY POLE

GENERAL NOTES

THE PLAN SHEETS PROVIDED IN THIS SET ARE DEVELOPED TO A CONCEPTUAL LEVEL THAT MEETS A FEASIBILITY STUDY PROFESSIONAL STANDARD OF CARE. THEIR FOCUS IS TO ILLUSTRATE, AT A PLANNING LEVEL, WHAT CONSTRUCTION ACTIONS WOULD BE TAKEN IN THE PROJECT AREA AND TO IDENTIFY THE GEOGRAPHIC EXTENTS OF THE TEMPORARY EASEMENTS NEEDED TO CONSTRUCT THE FEATURES, AND THE PERMANENT EASEMENTS NEEDED TO MAINTAIN THEM. THE IMPACTS FROM CONSTRUCTION, OPERATION AND MAINTENANCE OF THE FEATURES ON THE NATURAL AND BUILT ENVIRONMENT ARE ADDRESSED IN THE PROJECT ENVIRONMENTAL IMPACT STATEMENT (EIS). THE DETAILS OF SITE CONTROLS RELATED TO ENVIRONMENTAL RESOURCE PROTECTION, SEDIMENTATION MANAGEMENT, CONSTRUCTION SITE ACCESS AND STAGING, NOISE, THE POLLUTION AND TRAFFIC MANAGEMENT WILL BE INCORPORATED INTO THE PROJECT DESIGN DOCUMENTATION IN A MANNER CONSISTENT WITH THE FINAL PROJECT EIS AND MITIGATION PLAN, AND ALL APPLICABLE MUNICIPAL, COUNTY, STATE AND FEDERAL REGULATIONS.

THE CONTOURS WERE DEVELOPED IN ARCGIS AND AUTOCADD FROM A DEM DEVELOPED AND PROVIDED BY STATE OF NEW JERSEY AND THE NEW JERSEY MEADOWLANDS COMMISSION IN OCTOBER, 2015.

LANDSCAPE NOTES

ADDITIONAL DISCIPLINE OR COMMENT-SPECIFIC DETAILS NOT ADDRESSED IN THE GENERAL NOTES, INCLUDING PAVEMENT DEPTHS AND STRUCTURAL WALKWAYS, WILL BE EVALUATED AND INCORPORATED INTO THE PROJECT DESIGN AT A SUBSEQUENT PHASE OF WORK. DETAILS FOR PAVEMENT AND STRUCTURAL COMPONENTS SHOWN ARE TYPICAL. THEY MAY BE MODIFIED DURING PROJECT DESIGN DEPENDING ON AVAILABLE SPACE, GEOTECHNICAL ANALYSIS, AND STRUCTURAL LOAD ANALYSIS AND STANDARDS. ALL NATIVE VEGETATION IS TO BE NON-IRRIGATED.

- ALL PARK DESIGNS INCLUDE PEDESTRIAN LIGHTING ON CIRCULATION PATHS AND PLAZAS.
- UNLESS OTHERWISE SHOWN ON PLANS, ALL CONSTRUCTION ACTIVITY IS TO OCCUR WITHIN PERMANENT EASEMENT BOUNDARY.
- GENERAL DETAILS OF LANDSCAPE FEATURES CAN BE FOUND ON THE TYPICAL DETAIL SHEET, L-00-100 THROUGH L-00-102.
- FOR PLANTING TYPOLOGIES REFER TO LEGEND AND PLANTING SCHEDULE FOR COMPOSITION



PROJECT

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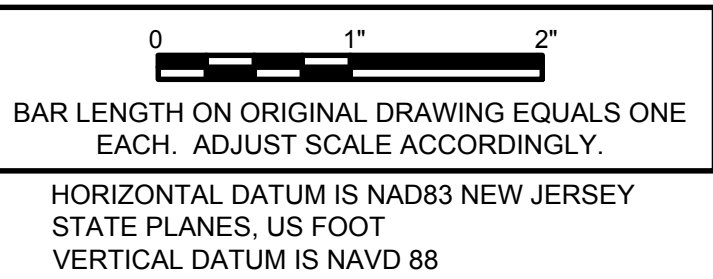
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CHECKED BY	LL/LM	07/17/11



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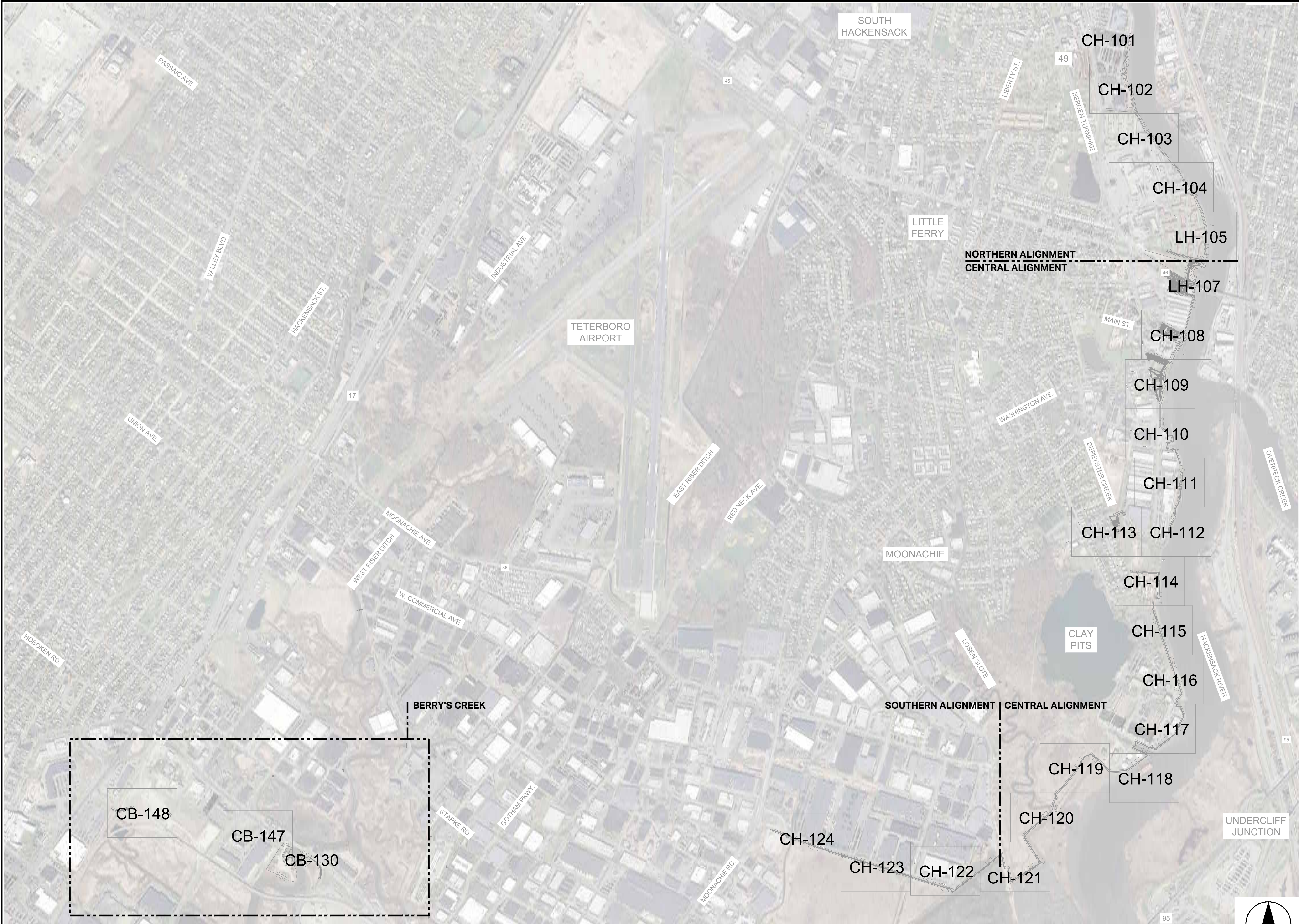
P1131-00 TC-001

SHEET TITLE

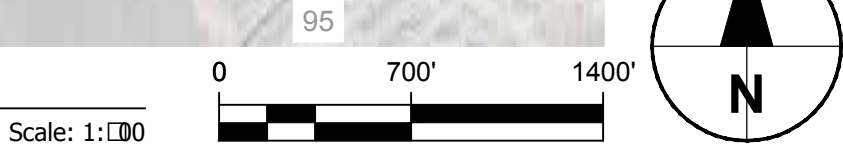
ALTERNATIVE 1 - ELEVATION 7
LEGEND AND GENERAL NOTES

SHEET NUMBER

G-002



1 ALTERNATIVE 1-ELEVATION 7 OVERALL KEY



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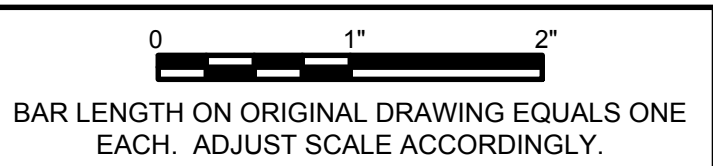
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SHEET TITLE

ALTERNATIVE 1 - ELEVATION 7
PANELING KEY

SHEET NUMBER

G-003



1 ALTERNATIVE 1-ELEVATION □



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DRAWN BY	RM	□□/□□
CHECKED BY	LL/LM	□□/□□

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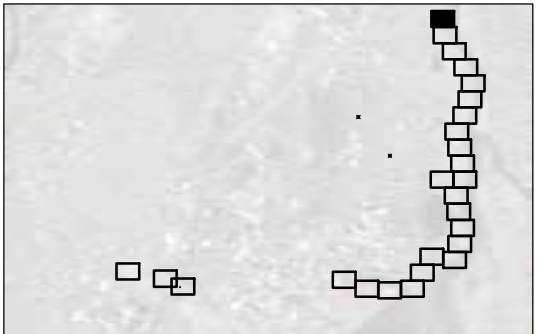
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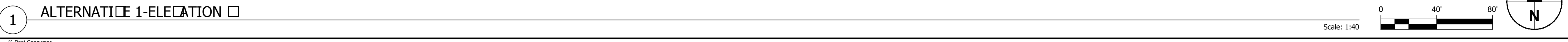
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
NORTHERN ALIGNMENT

SHEET NUMBER

CH-101



PROJECT

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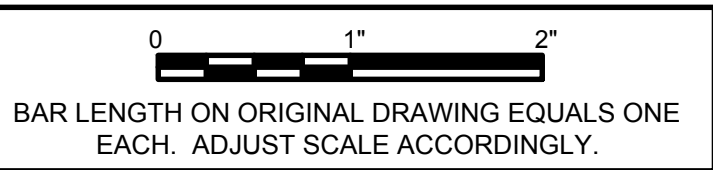
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DRAWN BY	RM	□□/□□
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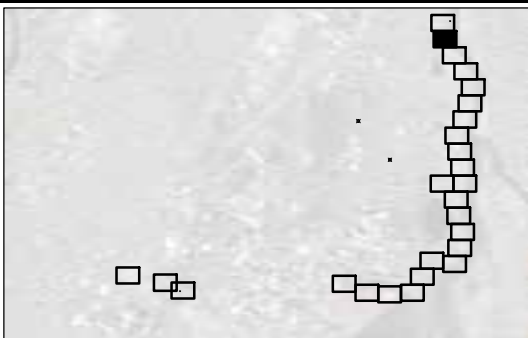
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KEY PLAN



PROJECT NUMBER

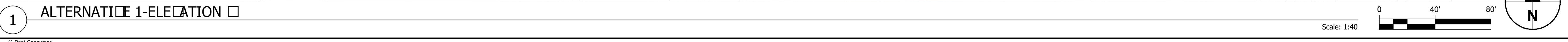
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
NORTHERN ALIGNMENT

SHEET NUMBER

CH-102



PROJECT
**REBUILD BY DESIGN:
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CONSULTANT
HDR
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201.335.9300 tel 201.335.9301 fax

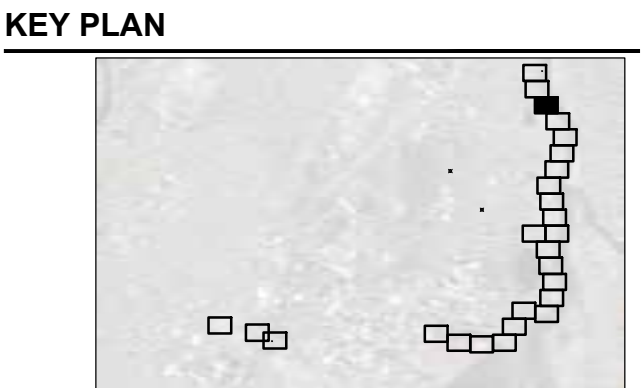
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CHECKED BY	LL/LM	07/17/18

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HORIZONTAL DATUM IS NAD83 NEW JERSEY STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

REGISTRATION

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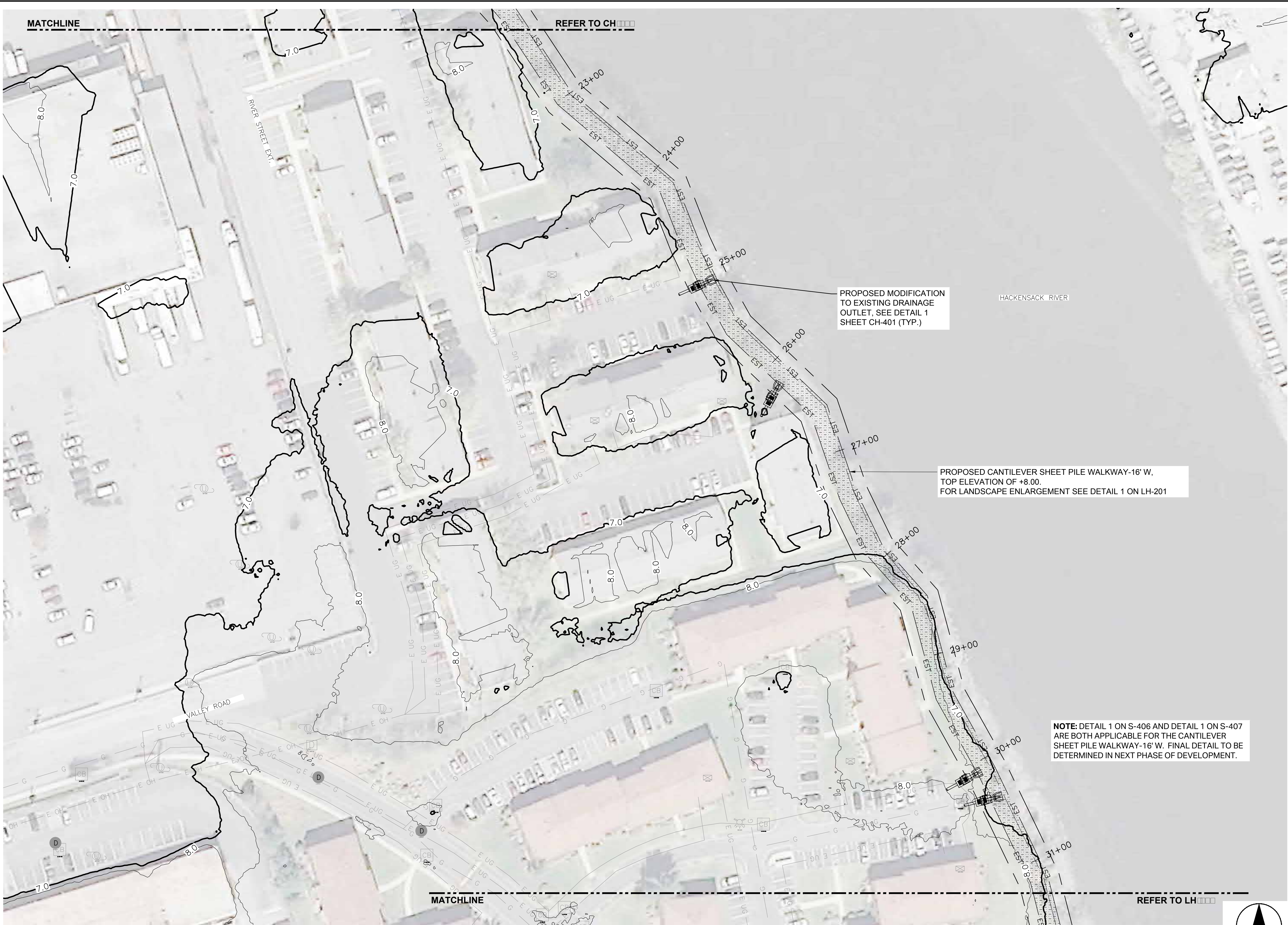
PROJECT NUMBER
P1131-00 TC-001
SHEET TITLE
ALTERNATIVE 1- ELEVATION 7
NORTHERN ALIGNMENT

SHEET NUMBER
CH-103

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DESIGNED BY	RM/LL	01/11/11
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CHECKED BY	LL/LM	01/11/11

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HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

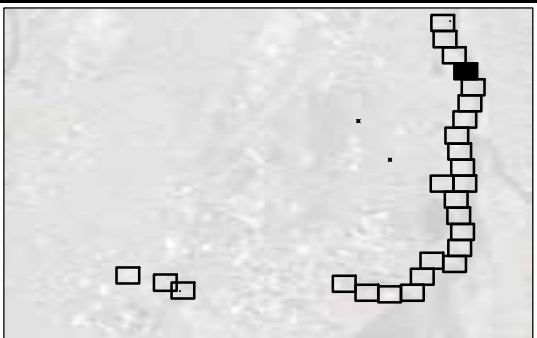
REGISTRATION

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
I	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
NORTHERN ALIGNMENT

SHEET NUMBER

CH-104



REFER TO CH

REFER TO LH

NOTE: DETAIL 1 ON S-406 AND DETAIL 1 ON S-407 ARE BOTH APPLICABLE FOR THE CANTILEVER SHEET PILE WALKWAY-16' W. FINAL DETAIL TO BE DETERMINED IN NEXT PHASE OF DEVELOPMENT.



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DRAWN BY	RM	
CHECKED BY	LL/LM	

0 1" 2"
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HORIZONTAL DATUM IS NAD83 NEW JERSEY
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VERTICAL DATUM IS NAVD 88

REGISTRATION

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ISSUE/REVISION

I	APR. 23, 2018	Draft Feasibility Report
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KEY PLAN



PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
NORTHERN ALIGNMENT

SHEET NUMBER

LH-105

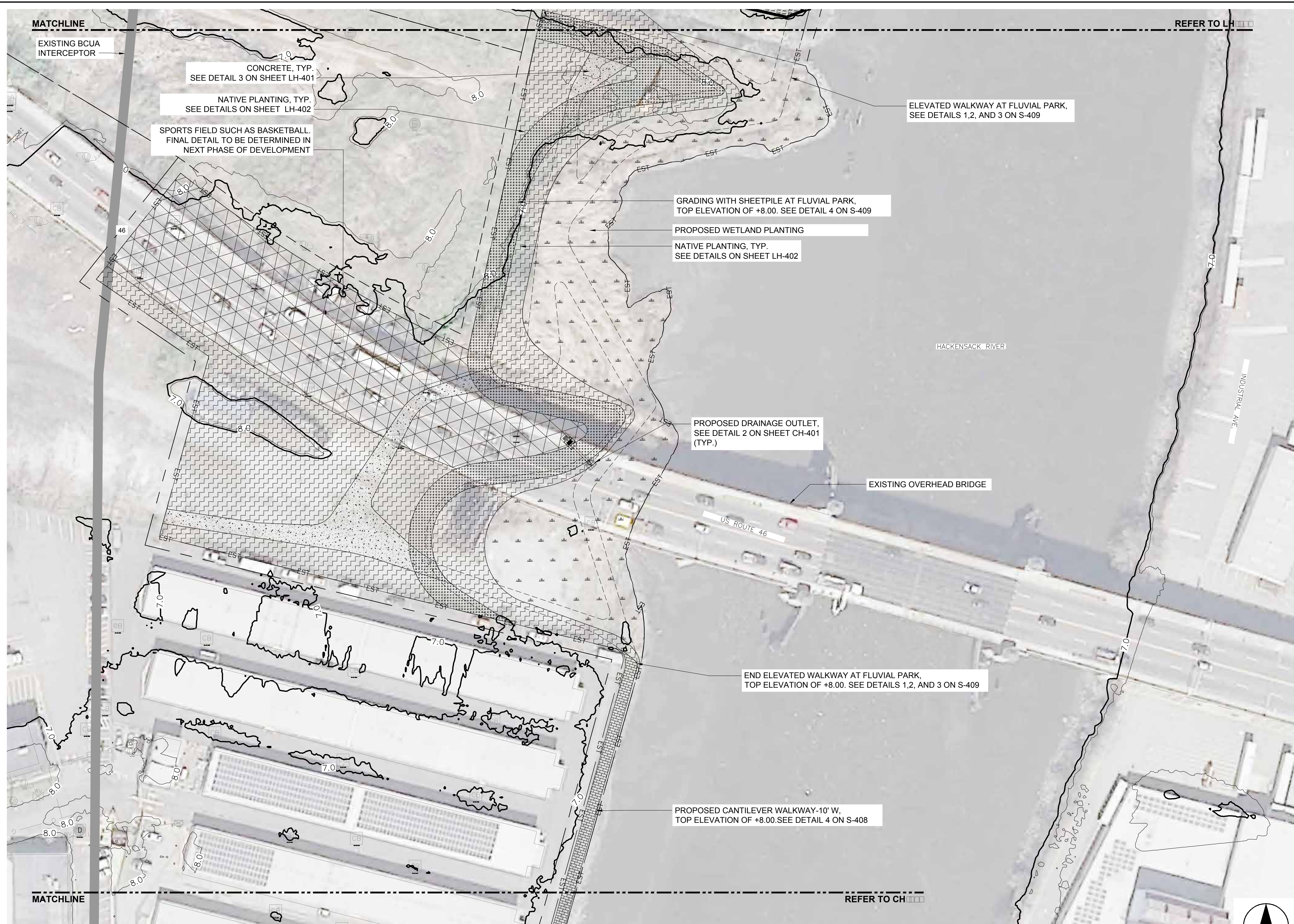
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1 ALTERNATIVE 1-ELEVATION □



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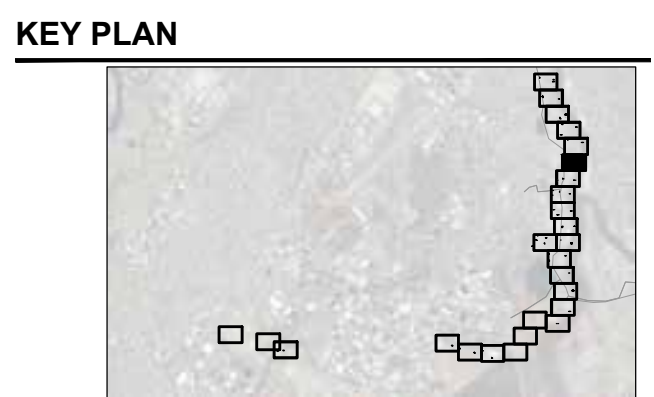
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DRAWN BY	RM	□/□/□/□
CHECKED BY	LL/LM	□/□/□/□

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HORIZONTAL DATUM IS NAD83 NEW JERSEY
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VERTICAL DATUM IS NAVD 88

REGISTRATION

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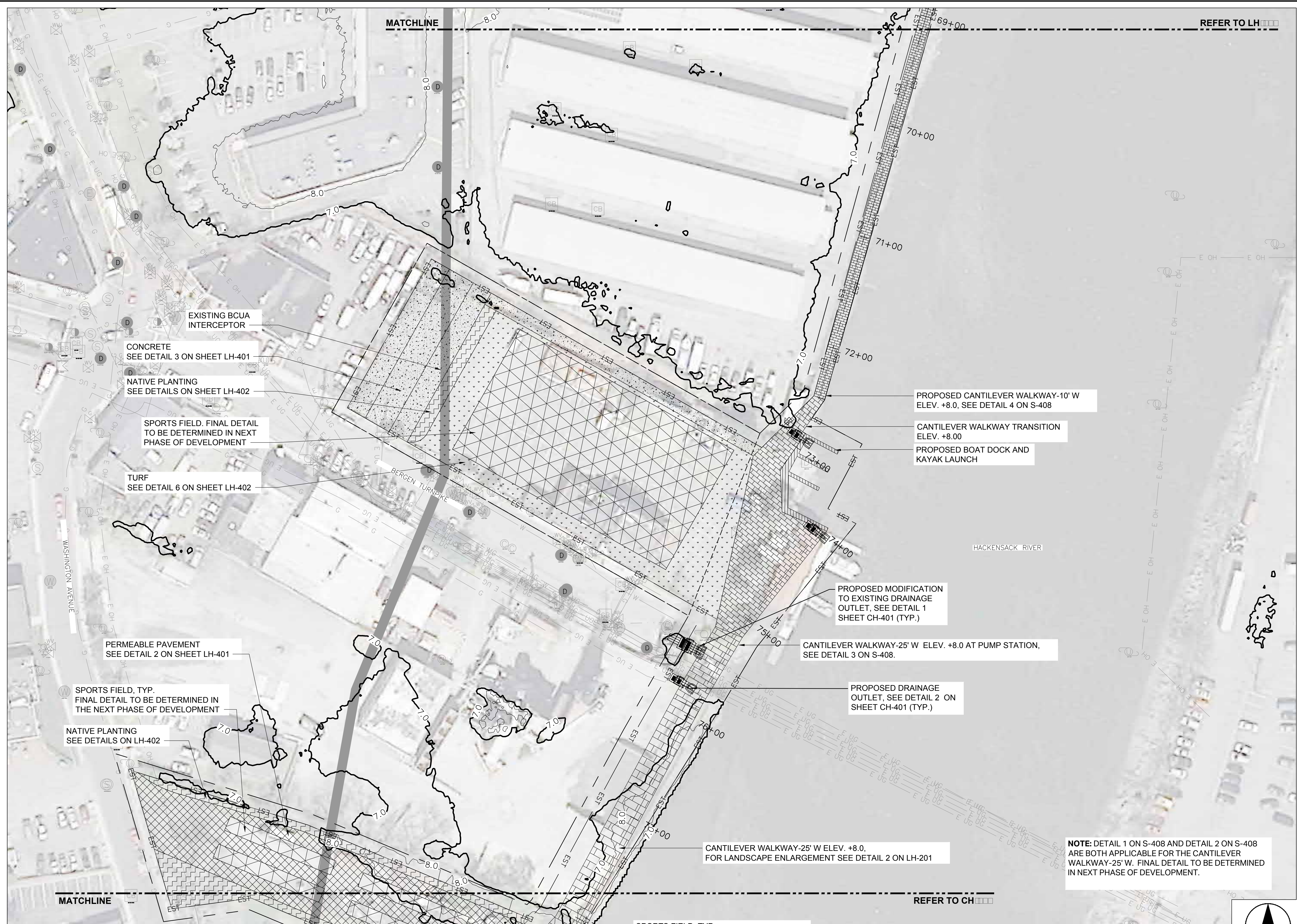
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I	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION



PROJECT NUMBER
P1131-00 TC-001

SHEET TITLE
ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER
LH-107



1 ALTERNATIVE 1-ELEVATION

Scale: 1:40



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0 1" 2"
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HORIZONTAL DATUM IS NAD83 NEW JERSEY
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VERTICAL DATUM IS NAVD 88

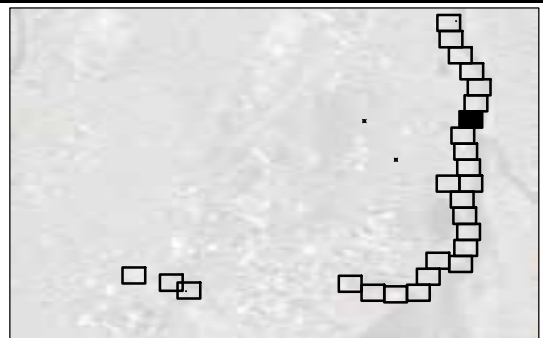
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I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

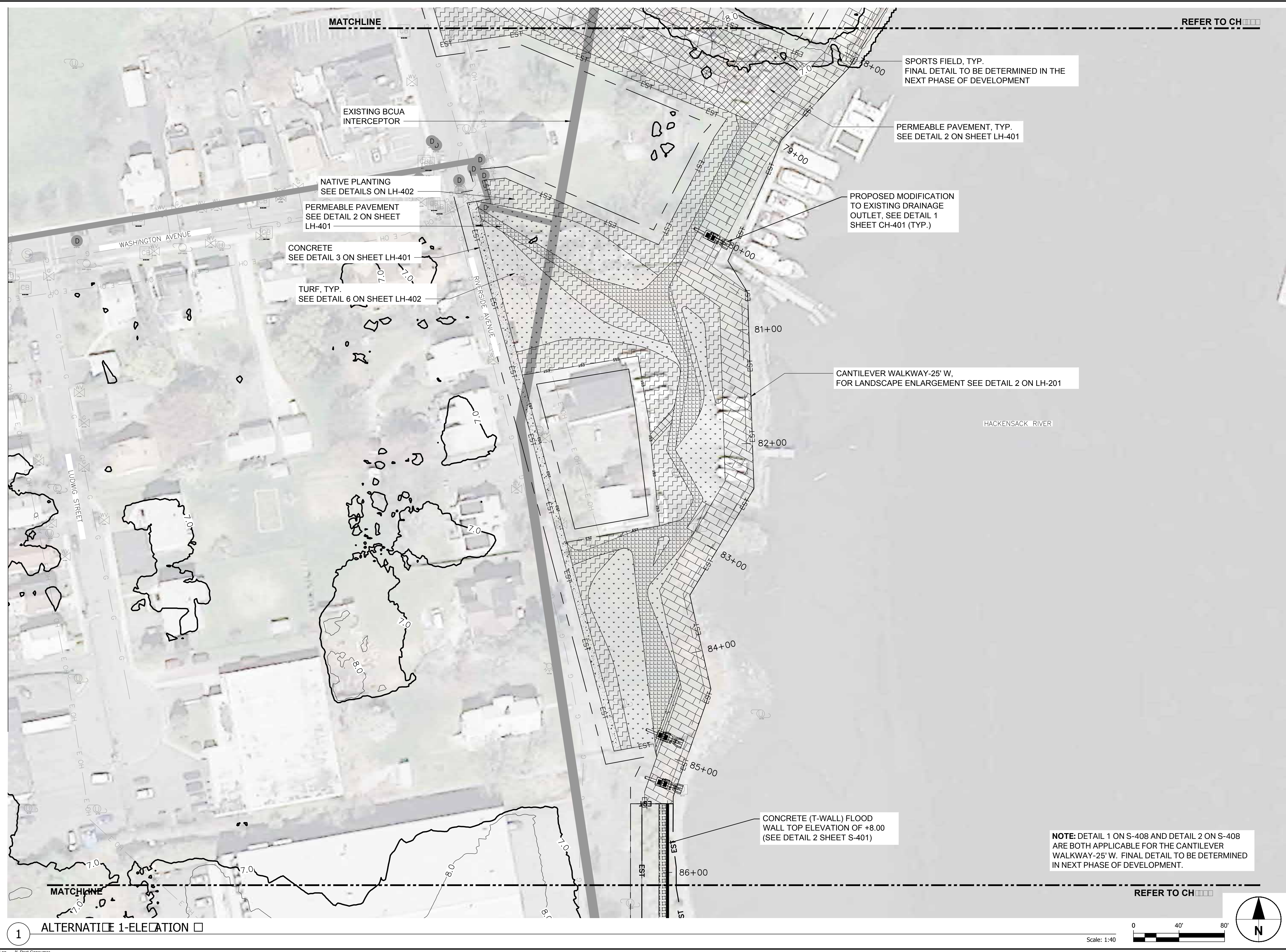
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

CH-108



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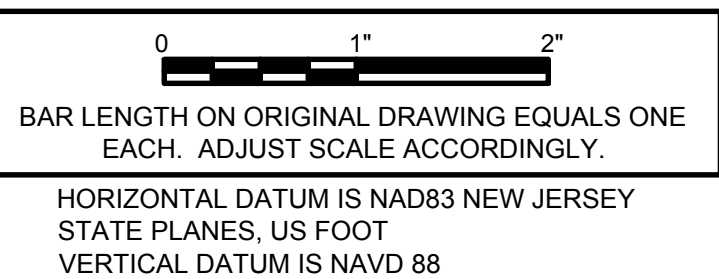
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DRAWN BY	RM	07/07/00
CHECKED BY	LL/LM	07/07/00



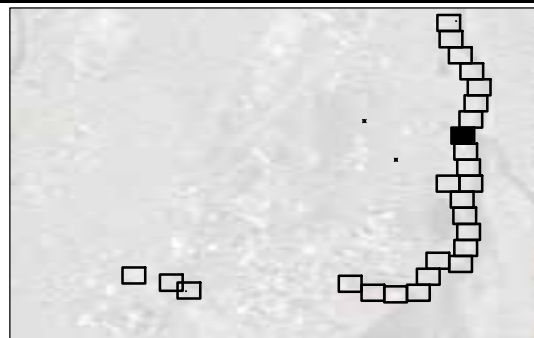
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KEY PLAN



PROJECT NUMBER

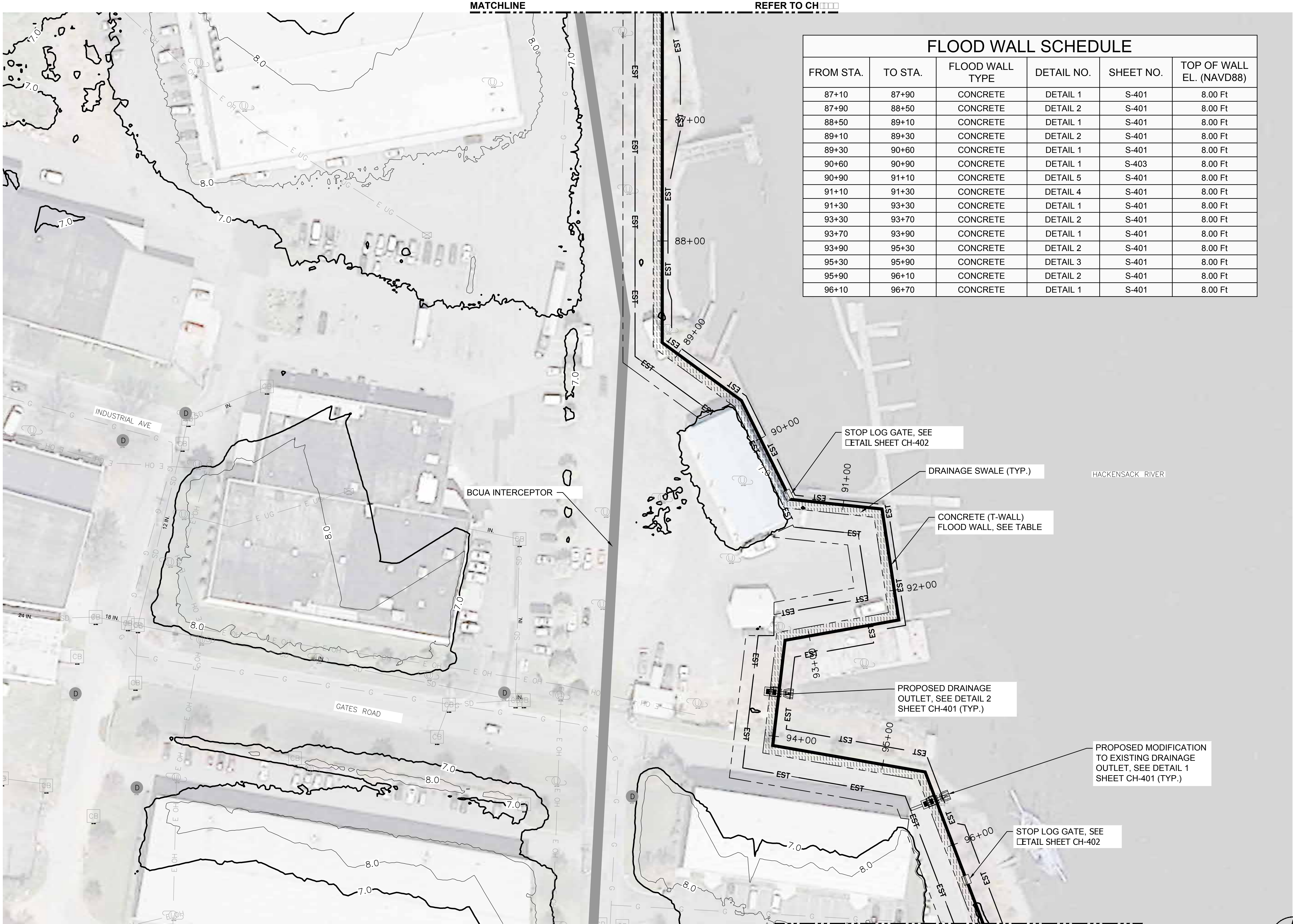
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

CH-109



FLOOD WALL SCHEDULE					
FROM STA.	TO STA.	FLOOD WALL TYPE	DETAIL NO.	SHEET NO.	TOP OF WALL EL. (NAVD88)
87+10	87+90	CONCRETE	DETAIL 1	S-401	8.00 Ft
87+90	88+50	CONCRETE	DETAIL 2	S-401	8.00 Ft
88+50	89+10	CONCRETE	DETAIL 1	S-401	8.00 Ft
89+10	89+30	CONCRETE	DETAIL 2	S-401	8.00 Ft
89+30	90+60	CONCRETE	DETAIL 1	S-401	8.00 Ft
90+60	90+90	CONCRETE	DETAIL 1	S-403	8.00 Ft
90+90	91+10	CONCRETE	DETAIL 5	S-401	8.00 Ft
91+10	91+30	CONCRETE	DETAIL 4	S-401	8.00 Ft
91+30	93+30	CONCRETE	DETAIL 1	S-401	8.00 Ft
93+30	93+70	CONCRETE	DETAIL 2	S-401	8.00 Ft
93+70	93+90	CONCRETE	DETAIL 1	S-401	8.00 Ft
93+90	95+30	CONCRETE	DETAIL 2	S-401	8.00 Ft
95+30	95+90	CONCRETE	DETAIL 3	S-401	8.00 Ft
95+90	96+10	CONCRETE	DETAIL 2	S-401	8.00 Ft
96+10	96+70	CONCRETE	DETAIL 1	S-401	8.00 Ft



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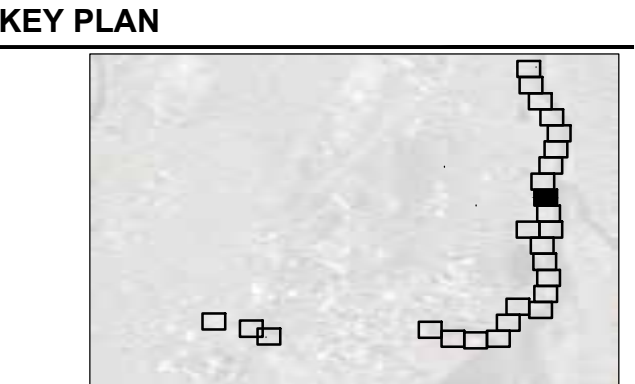
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DRAWN BY	OM	07/17/18
CHECKED BY	MJ	07/17/18

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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.
HORIZONTAL DATUM IS NAD83 NEW JERSEY STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

REGISTRATION

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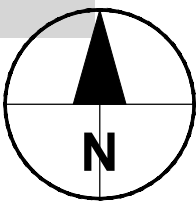
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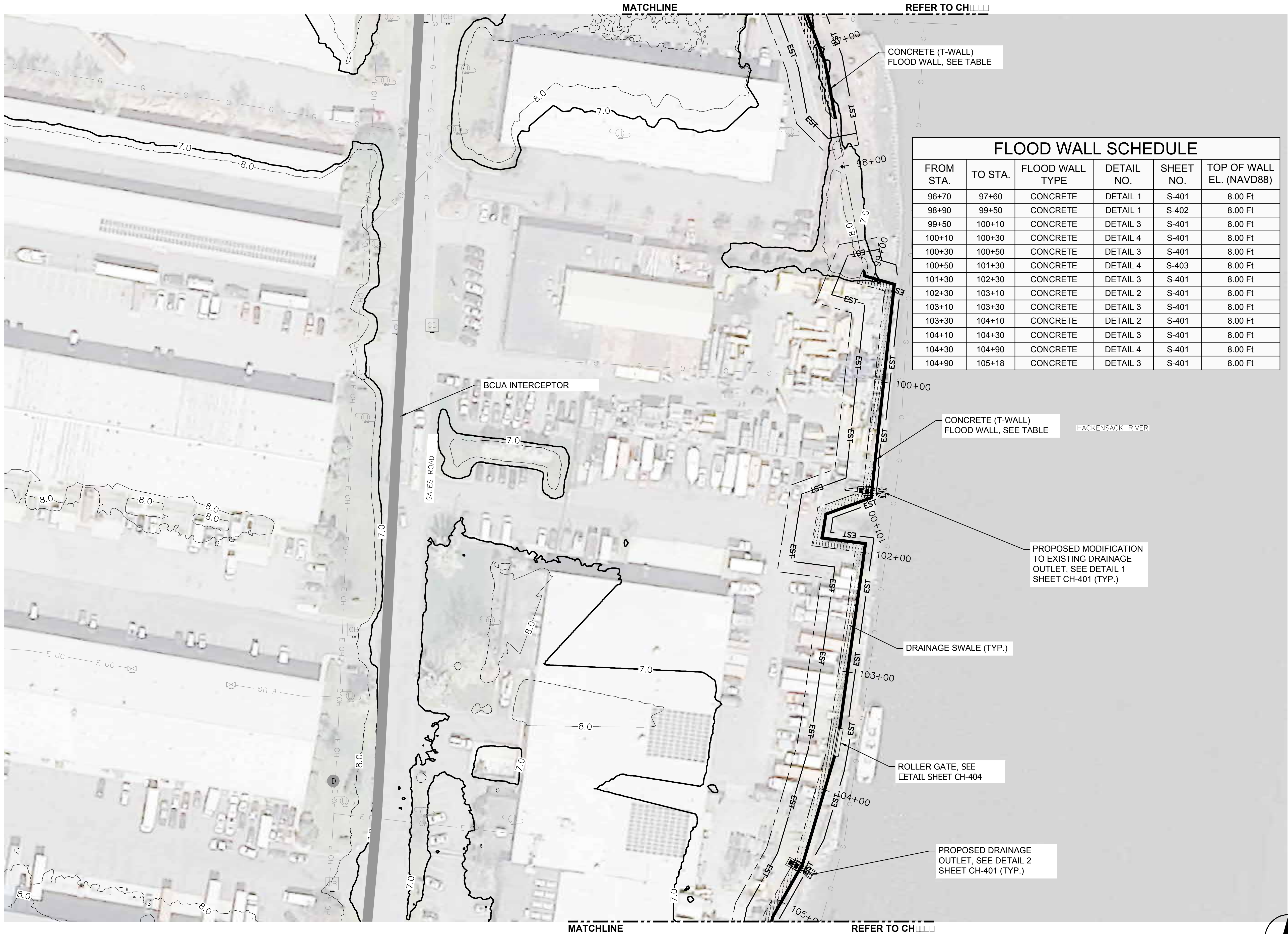


PROJECT NUMBER
P1131-00 TC-001

SHEET TITLE
ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER
CH-110





FLOOD WALL SCHEDULE					
FROM STA.	TO STA.	FLOOD WALL TYPE	DETAIL NO.	SHEET NO.	TOP OF WALL EL. (NAVD88)
96+70	97+60	CONCRETE	DETAIL 1	S-401	8.00 Ft
98+90	99+50	CONCRETE	DETAIL 1	S-402	8.00 Ft
99+50	100+10	CONCRETE	DETAIL 3	S-401	8.00 Ft
100+10	100+30	CONCRETE	DETAIL 4	S-401	8.00 Ft
100+30	100+50	CONCRETE	DETAIL 3	S-401	8.00 Ft
100+50	101+30	CONCRETE	DETAIL 4	S-403	8.00 Ft
101+30	102+30	CONCRETE	DETAIL 3	S-401	8.00 Ft
102+30	103+10	CONCRETE	DETAIL 2	S-401	8.00 Ft
103+10	103+30	CONCRETE	DETAIL 3	S-401	8.00 Ft
103+30	104+10	CONCRETE	DETAIL 2	S-401	8.00 Ft
104+10	104+30	CONCRETE	DETAIL 3	S-401	8.00 Ft
104+30	104+90	CONCRETE	DETAIL 4	S-401	8.00 Ft
104+90	105+18	CONCRETE	DETAIL 3	S-401	8.00 Ft



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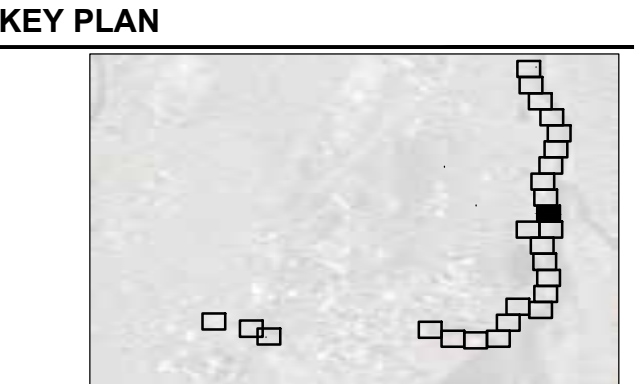
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DRAWN BY	OM	07/17/18
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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.
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VERTICAL DATUM IS NAVD 88

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I/R	DATE	DESCRIPTION



PROJECT NUMBER
P1131-00 TC-001
SHEET TITLE
ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

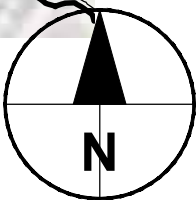
SHEET NUMBER
CH-111



FLOOD WALL SCHEDULE					
FROM STA.	TO STA.	FLOOD WALL TYPE	DETAIL NO.	SHEET NO.	TOP OF WALL EL. (NAVD88)
105+18	105+90	CONCRETE	DETAIL 3	S-401	8.00 Ft
105+90	106+10	CONCRETE	DETAIL 4	S-401	8.00 Ft
106+10	106+30	CONCRETE	DETAIL 2	S-401	8.00 Ft
106+30	106+60	CONCRETE	DETAIL 1	S-401	8.00 Ft
107+20	108+30	CONCRETE	DETAIL 1	S-401	8.00 Ft

1 ALTERNATIVE 1-ELEVATION 7

Scale: 1:40



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DESIGNED BY	TM	01/11/11
DRAWN BY	OM	01/11/11
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0 1" 2"
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VERTICAL DATUM IS NAVD 88

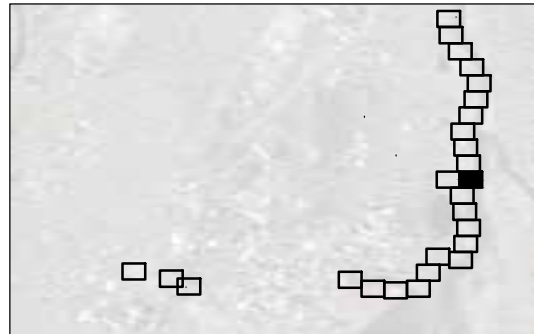
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I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

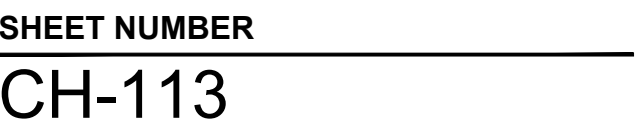
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SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

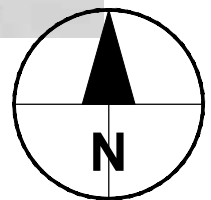
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1 ALTERNATIVE 1-ELEVATION 7

Scale: 1:40



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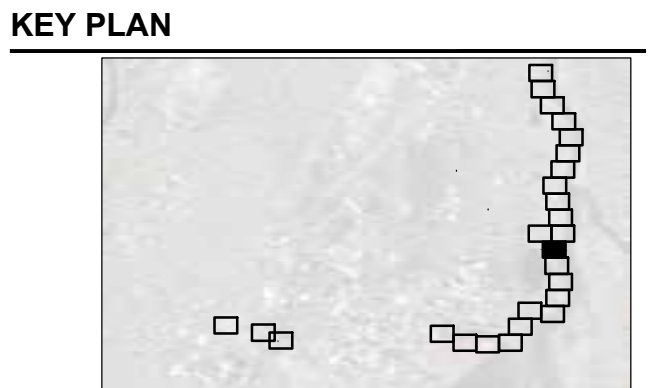
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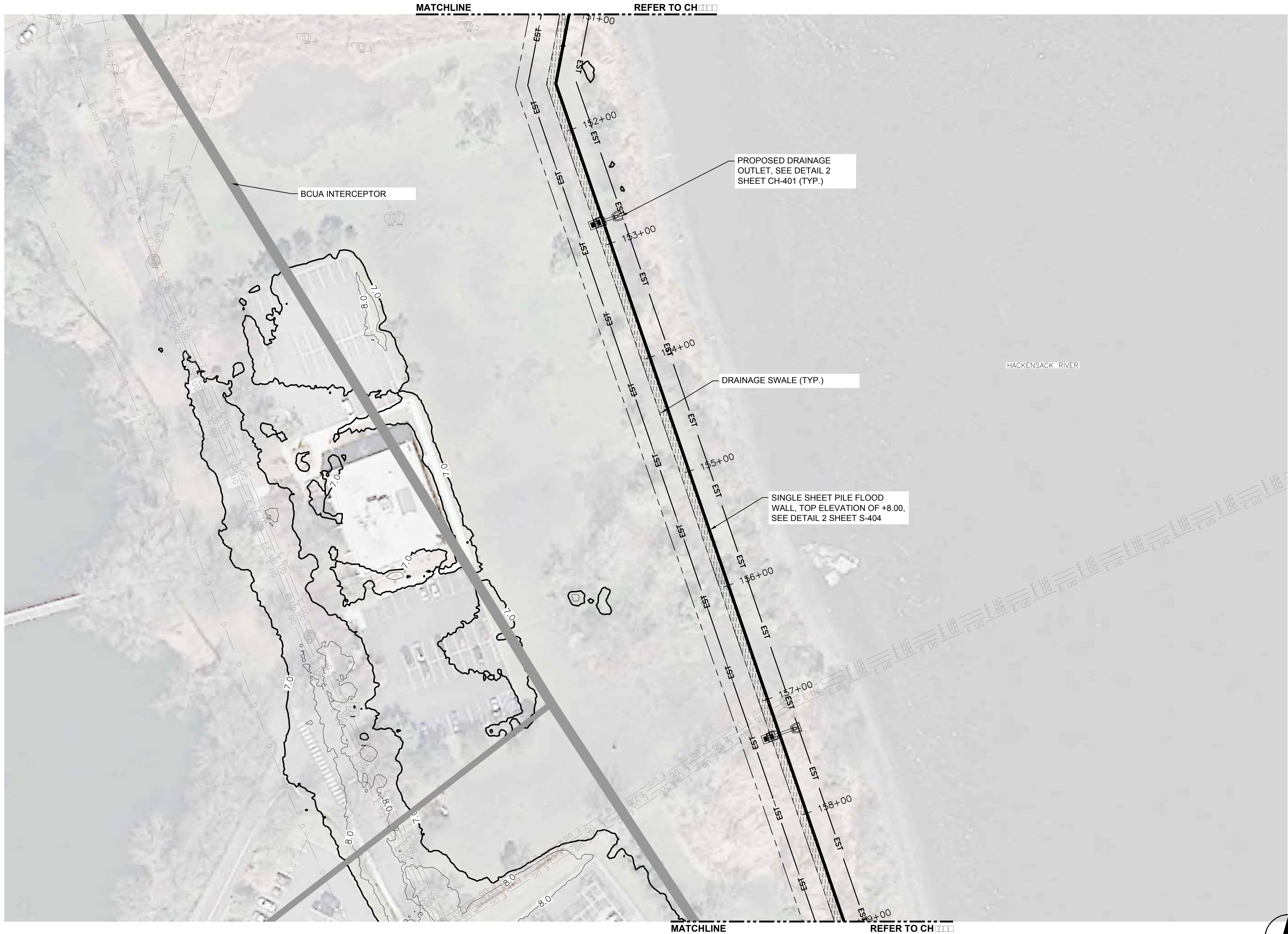
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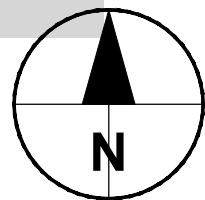
SHEET TITLE
ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER
CH-114



1 ALTERNATIVE 1-ELEVATION

Scale: 1:40



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DRAWN BY	OM	
CHECKED BY	MJ	

0 1" 2"
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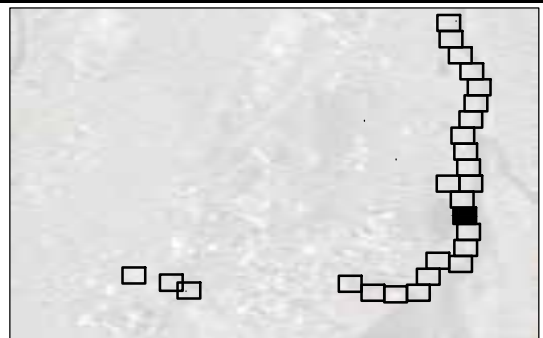
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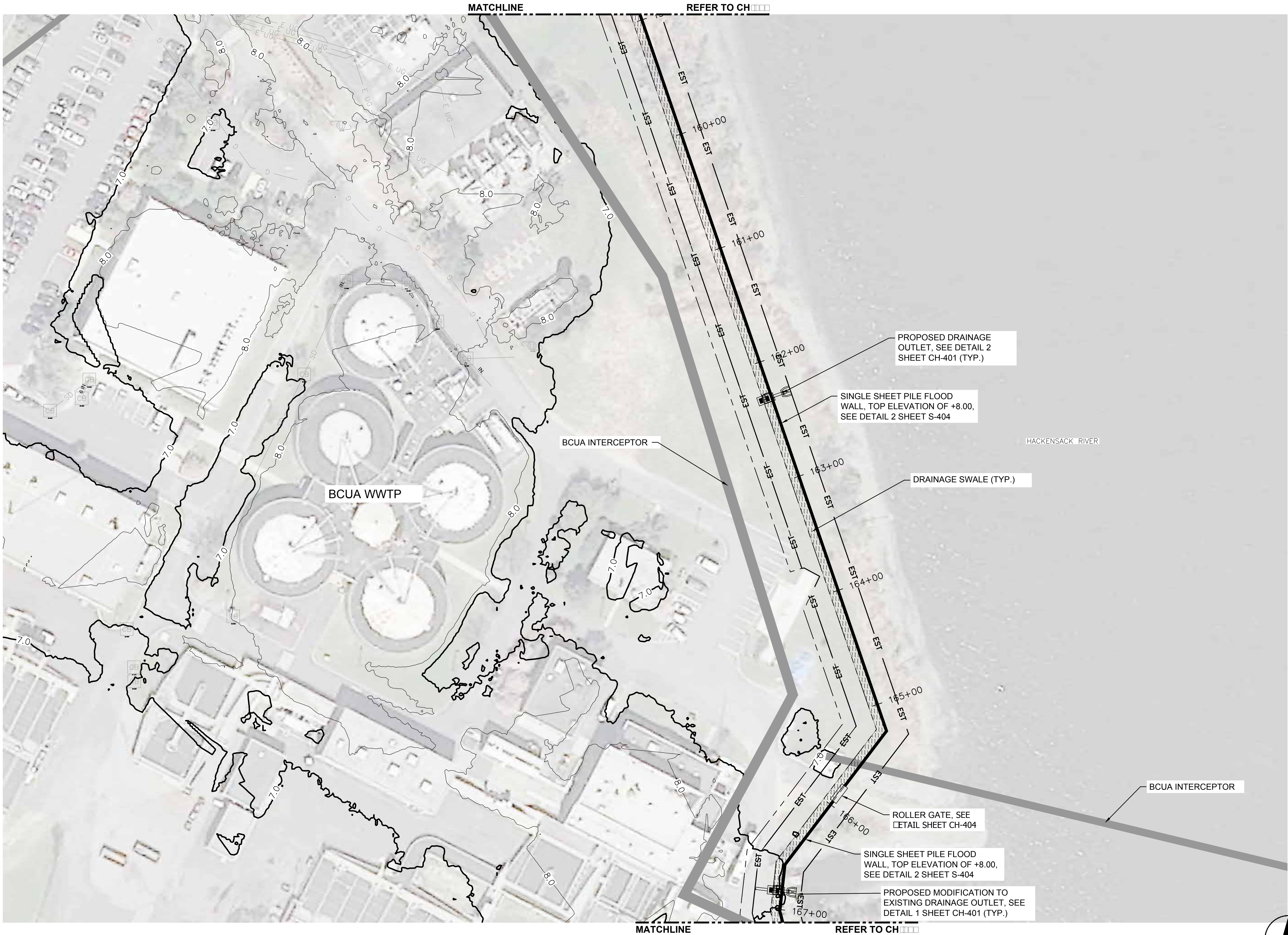
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SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
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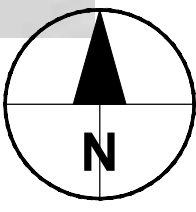
SHEET NUMBER

CH-115



1 ALTERNATIVE 1-ELEVATION 7

Scale: 1:40



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201.335.9300 tel 201.335.9301 fax

DESIGNED BY	TM	07/17/18
DRAWN BY	OM	07/17/18
CHECKED BY	MJ	07/17/18

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE
EACH. ADJUST SCALE ACCORDINGLY.

HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

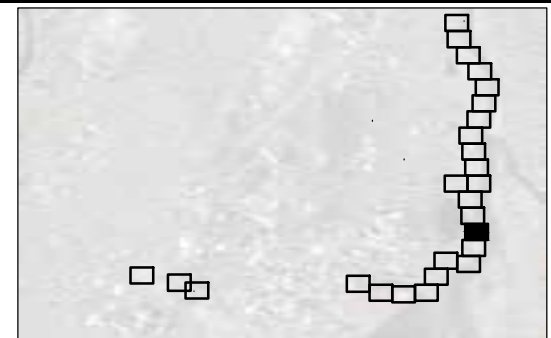
REGISTRATION

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
I	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

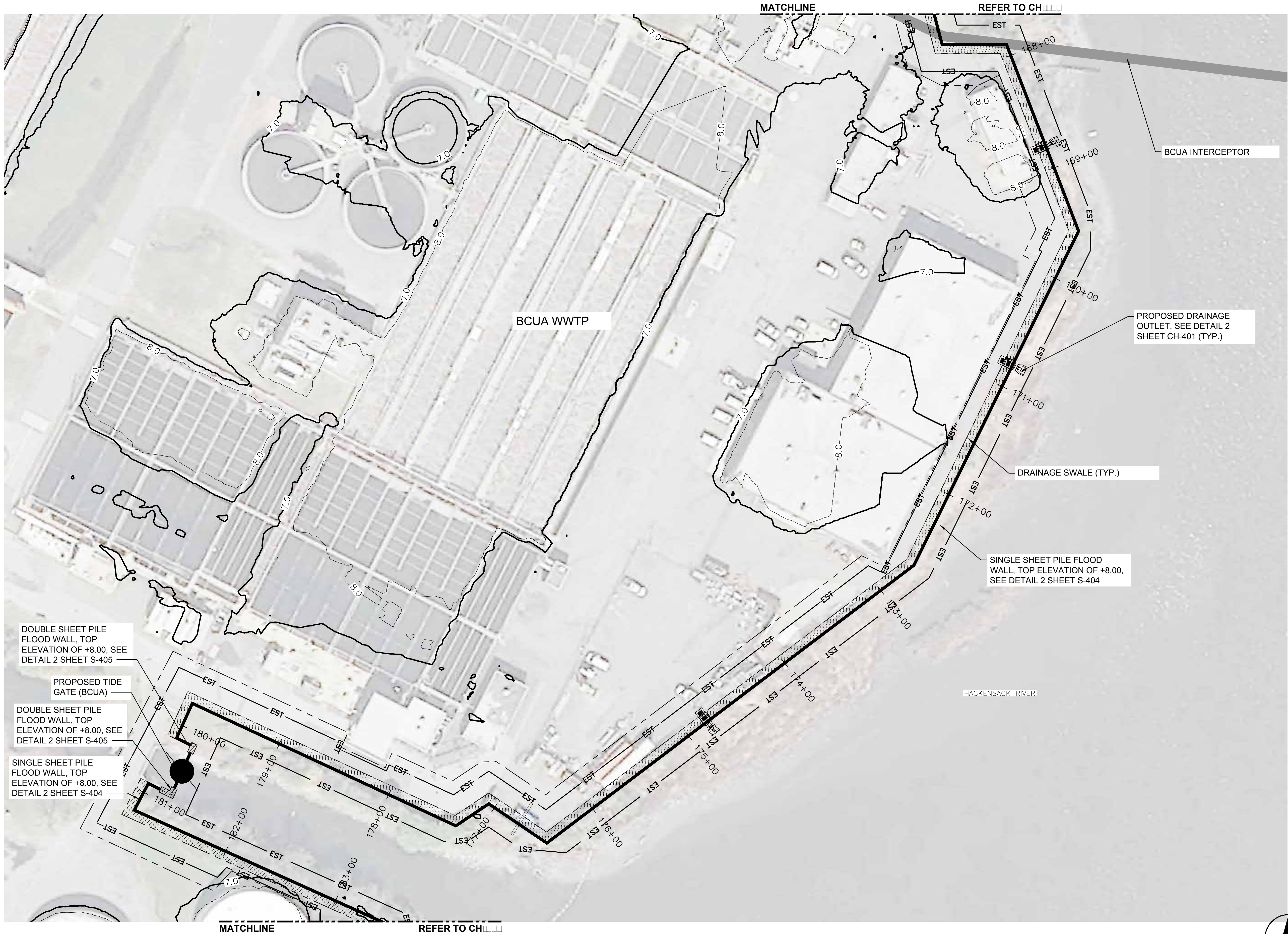
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

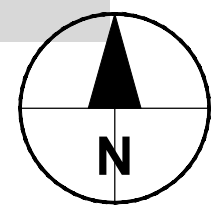
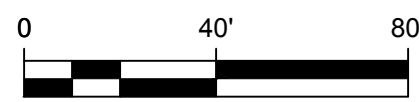
CH-116



1

ALTERNATIVE 1-ELEVATION

Scale: 1:40



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PROJECT

REBUILD BY DESIGN:
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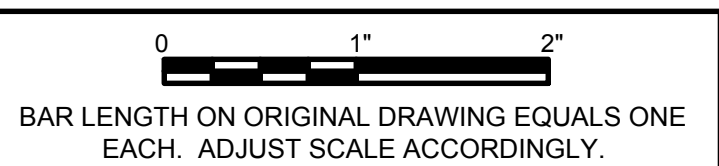
CONSULTANT

AECOM
1255 Broad Street, Suite 201
Clifton, NJ 07013-3398
973.883.8500 tel 973.883.8501 fax
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CONSULTANT

HDR
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DRAWN BY	OM	
CHECKED BY	MJ	



HORIZONTAL DATUM IS NAD83 NEW JERSEY
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VERTICAL DATUM IS NAVD 88

REGISTRATION

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I	DATE	DESCRIPTION
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PROJECT NUMBER

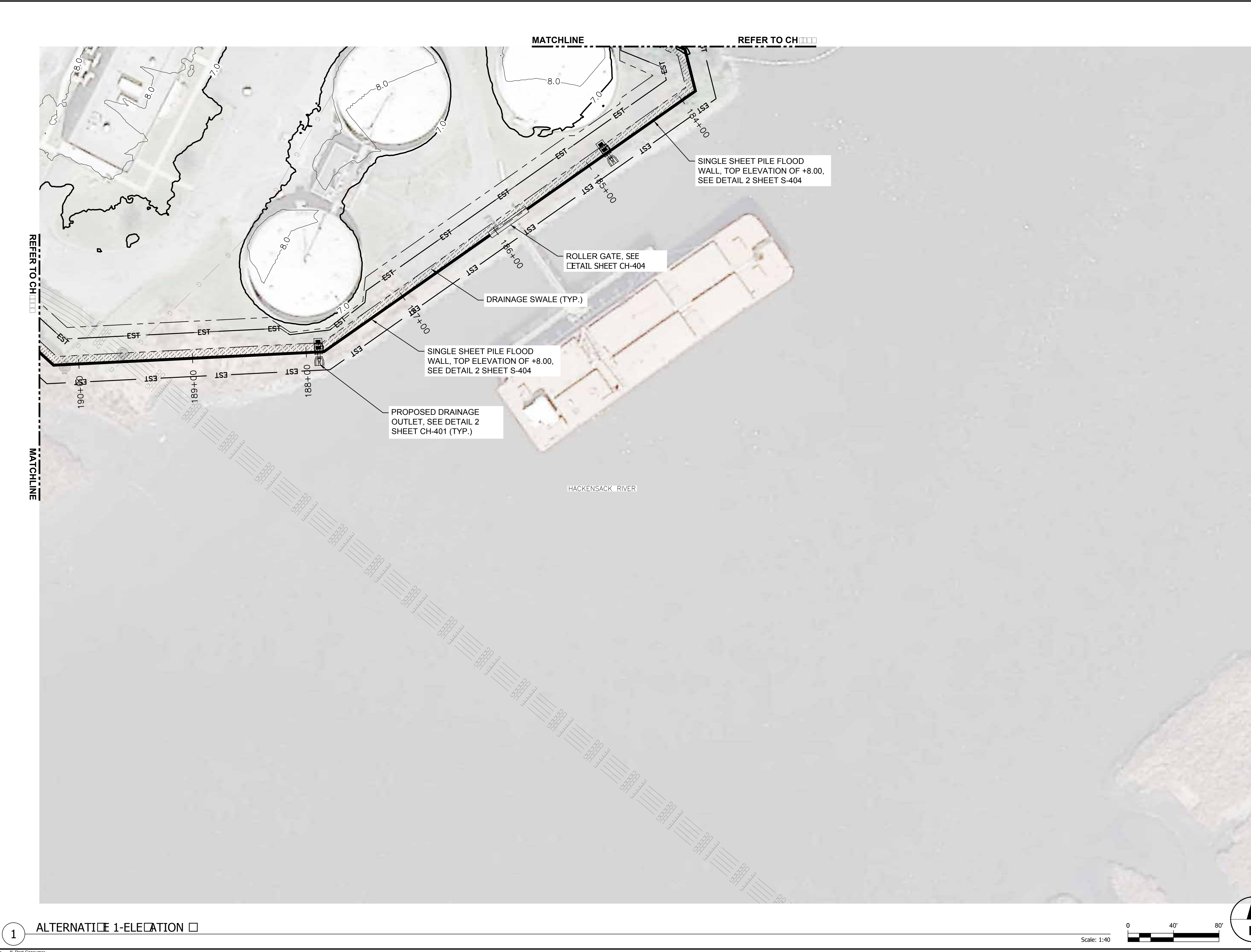
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

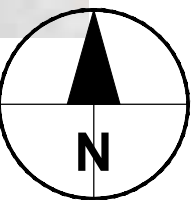
CH-117



1 **ALTERNATIVE 1-ELEVATION 7**

Scale: 1:40

0 40' 80'



PROJECT

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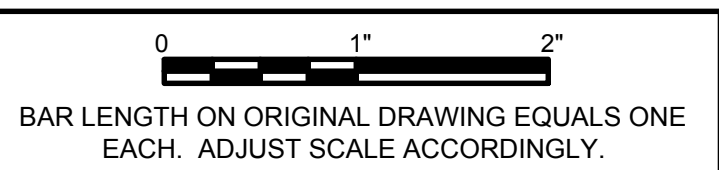
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STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

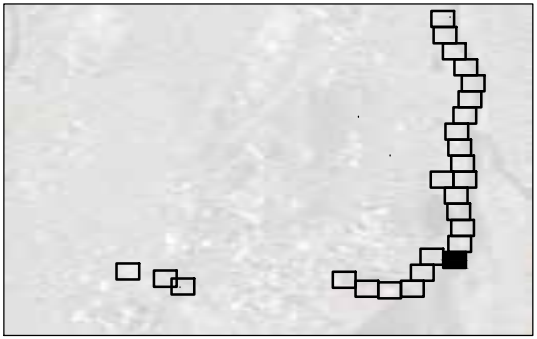
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PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

CH-118



REFER TO CH 110
MATCHLINE

PROPOSED MODIFICATION
TO EXISTING DRAINAGE
OUTLET, SEE DETAIL 1
SHEET CH-401 (TYP.)

SINGLE SHEET PILE FLOOD
WALL, TOP ELEVATION OF +8.00,
SEE DETAIL 2 SHEET S-404

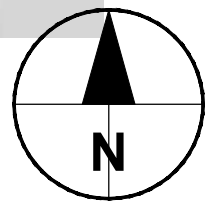
PROPOSED DRAINAGE
OUTLET, SEE DETAIL 2
SHEET CH-401 (TYP.)

DRAINAGE SWALE (TYP.)

DOUBLE SHEET PILE FLOOD
WALL, TOP ELEVATION OF +8.00,
SEE DETAIL 1 SHEET S-405

SINGLE SHEET PILE FLOOD
WALL, TOP ELEVATION OF +8.00,
SEE DETAIL 2 SHEET S-404

1 ALTERNATIVE 1-ELEVATION 7



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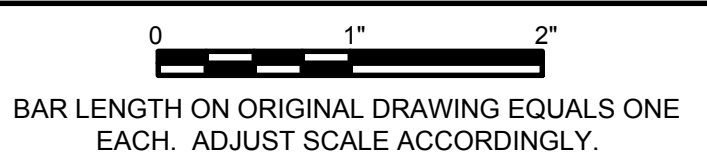
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STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

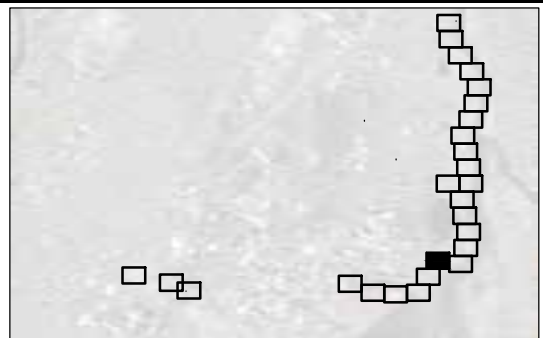
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PROJECT NUMBER

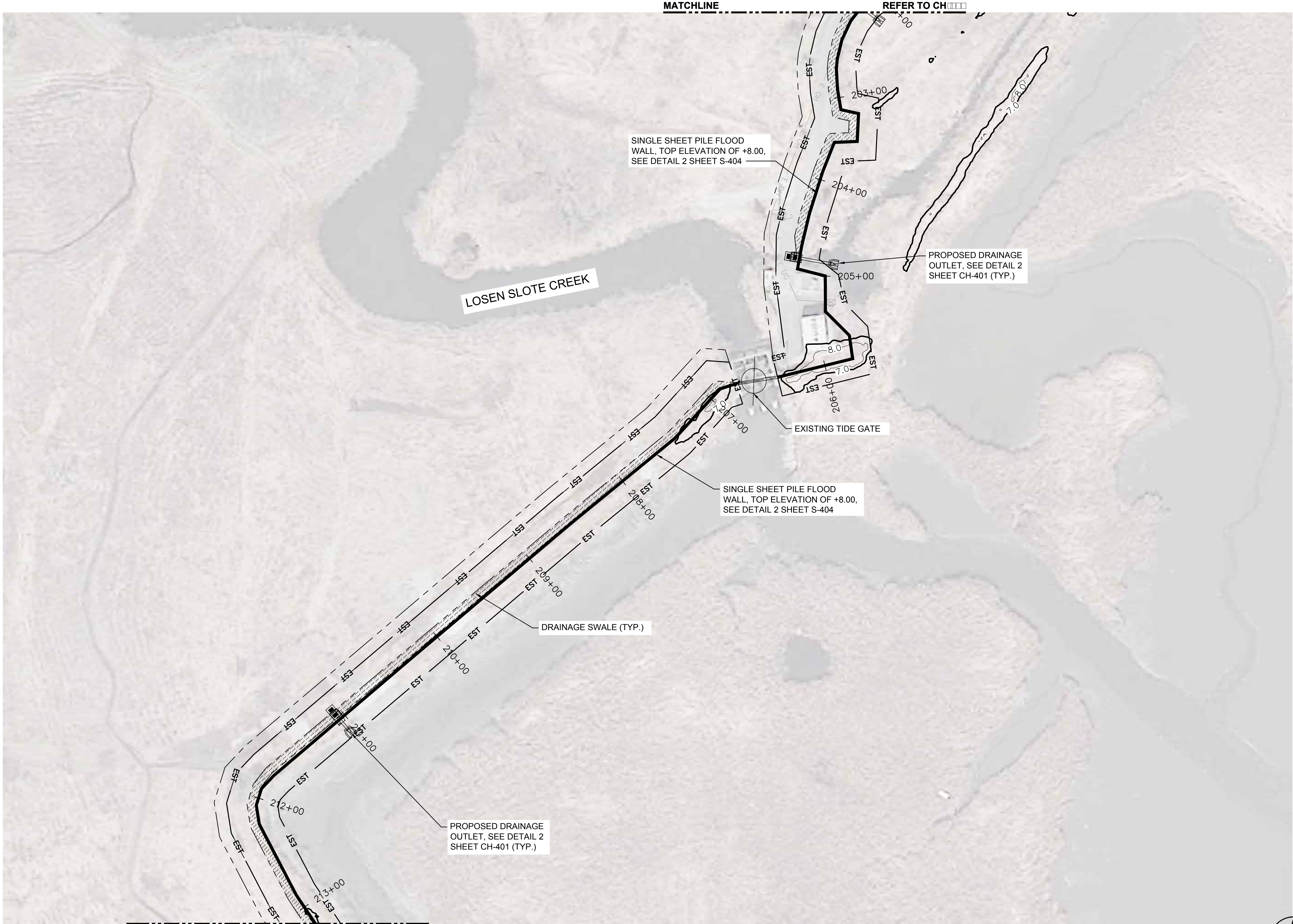
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

SHEET NUMBER

CH-119



SINGLE SHEET PILE FLOOD WALL, TOP ELEVATION OF +8.00, SEE DETAIL 2 SHEET S-404

PROPOSED DRAINAGE OUTLET, SEE DETAIL 2 SHEET CH-401 (TYP.)

EXISTING TIDE GATE

SINGLE SHEET PILE FLOOD WALL, TOP ELEVATION OF +8.00, SEE DETAIL 2 SHEET S-404

DRAINAGE SWALE (TYP.)

PROPOSED DRAINAGE OUTLET, SEE DETAIL 2 SHEET CH-401 (TYP.)

LOSEN SLOTE CREEK

MATCHLINE

REFER TO CH

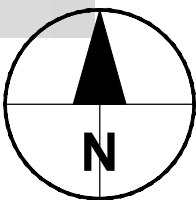
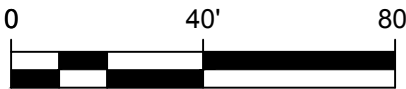
MATCHLINE

REFER TO CH

1

ALTERNATIVE 1-ELEVATION 7

Scale: 1:40



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DESIGNED BY	TM	
DRAWN BY	OM	
CHECKED BY	MJ	

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.

HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

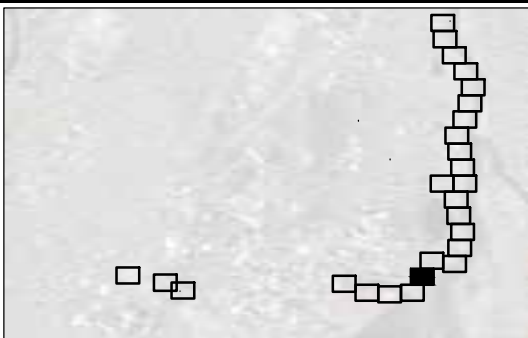
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KEY PLAN



PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
CENTRAL ALIGNMENT

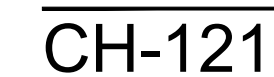
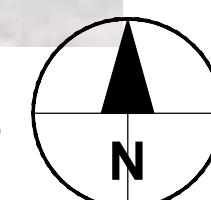
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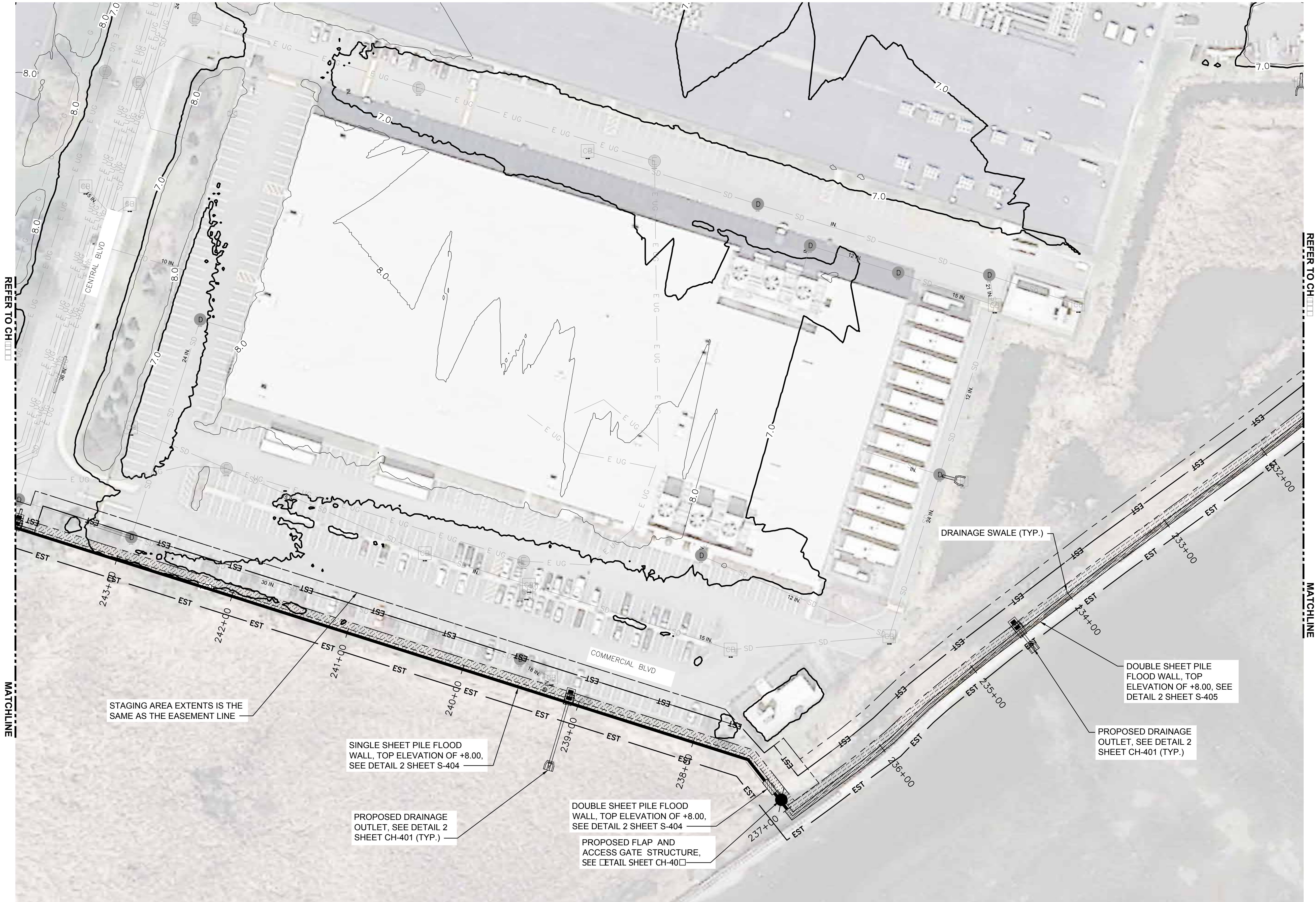
CH-120



ALTERNATIVE 1-ELEVATION

Scale: 1:40





REFER TO CH 122

MATCHLINE



PROJECT

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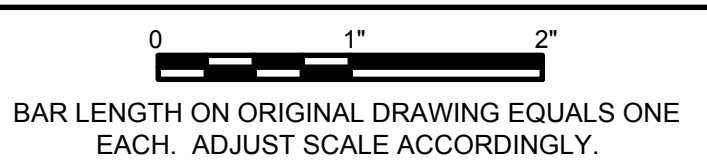
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CHECKED BY	MJ	07/17/18



HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

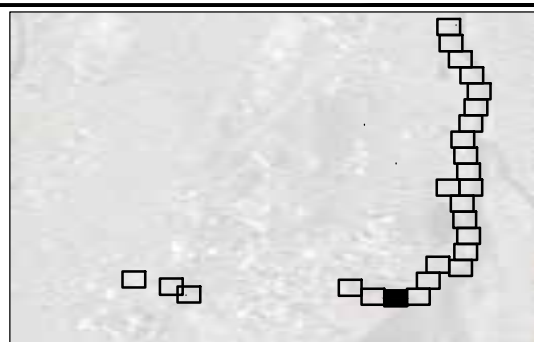
REGISTRATION

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ISSUE/REVISION

I	DATE	DESCRIPTION
1	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

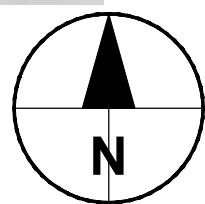
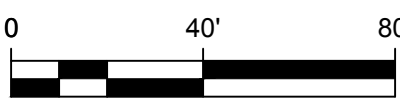
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
SOUTHERN ALIGNMENT

SHEET NUMBER

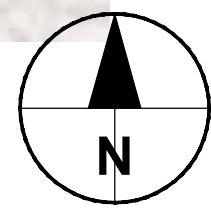
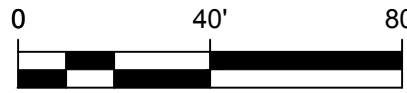
CH-122



1 ALTERNATIVE 1-ELEVATION 7



Scale: 1:40



PROJECT

REBUILD BY DESIGN:
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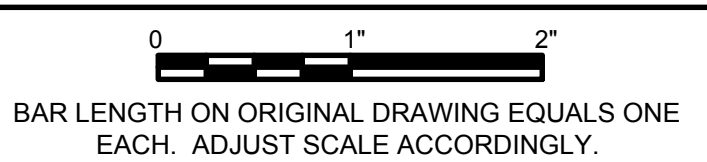
CONSULTANT

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CHECKED BY	MJ	07/17/18



HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

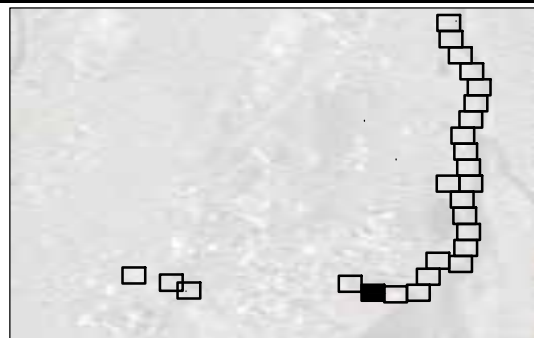
REGISTRATION

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I	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

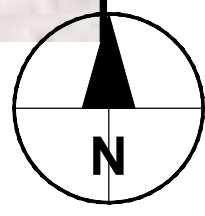
ALTERNATIVE 1- ELEVATION 7
SOUTHERN ALIGNMENT

SHEET NUMBER

CH-123



1 ALTERNATIVE 1-ELEVATION 7



PROJECT

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0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE
EACH. ADJUST SCALE ACCORDINGLY.

HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

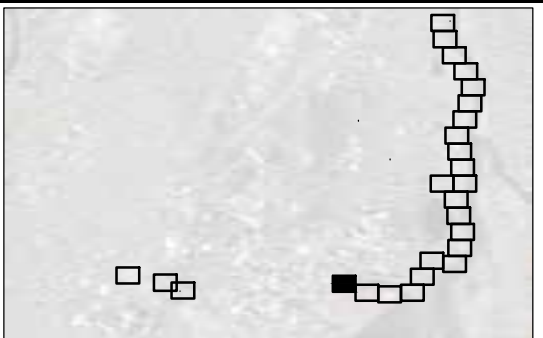
REGISTRATION

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NO.	DATE	DESCRIPTION
1	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
SOUTHERN ALIGNMENT

SHEET NUMBER

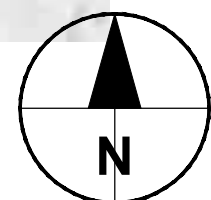
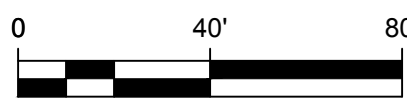
CH-124



1

ALTERNATIVE 1-ELEVATION 7

Scale: 1:40



AECOM

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DESIGNED BY	AB	07/17/18
DRAWN BY	RJ	07/17/18
CHECKED BY	MG	07/17/18

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE
EACH. ADJUST SCALE ACCORDINGLY.

HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

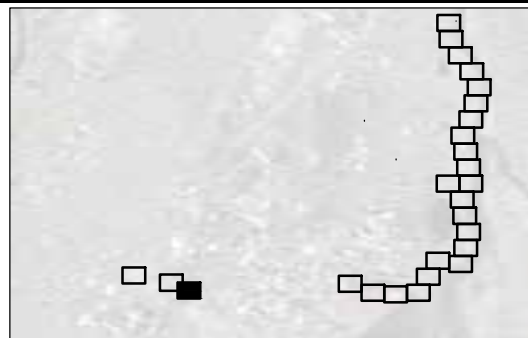
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PROJECT NUMBER

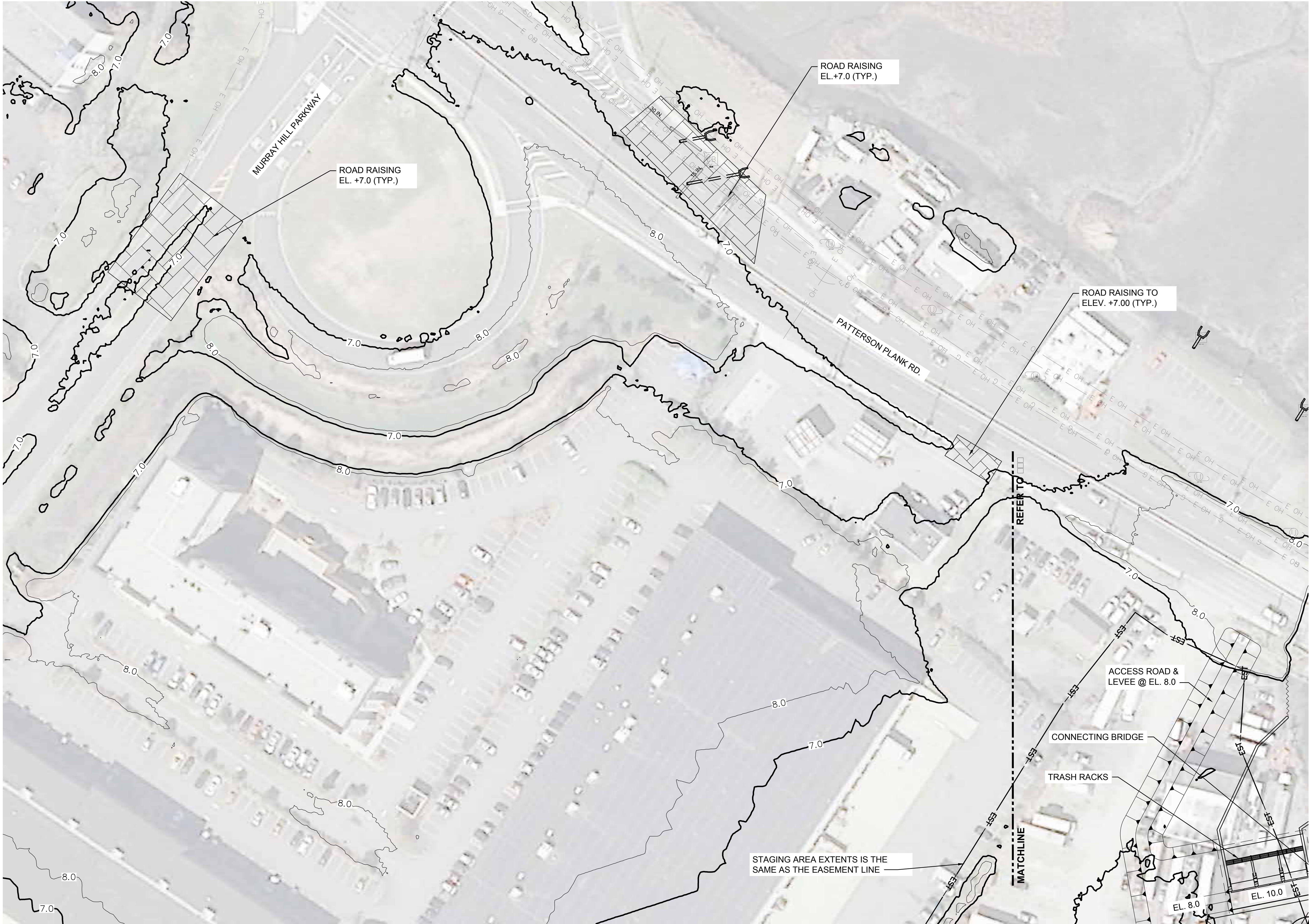
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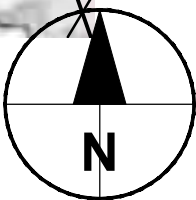
ALTERNATIVE 1- ELEVATION 7
BERRY'S CREEK

SHEET NUMBER

CB-130



1 ALTERNATIVE 1-ELEVATION 7



PROJECT

REBUILD BY DESIGN:
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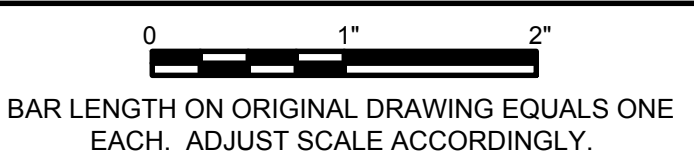
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CHECKED BY	MG	01/11/11



HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

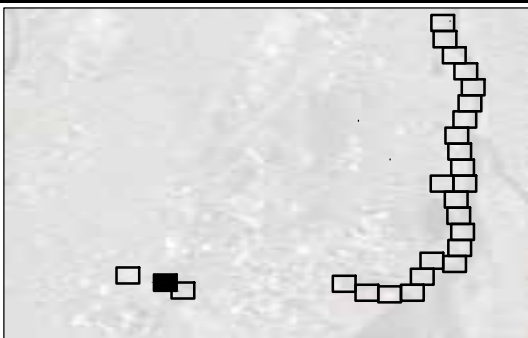
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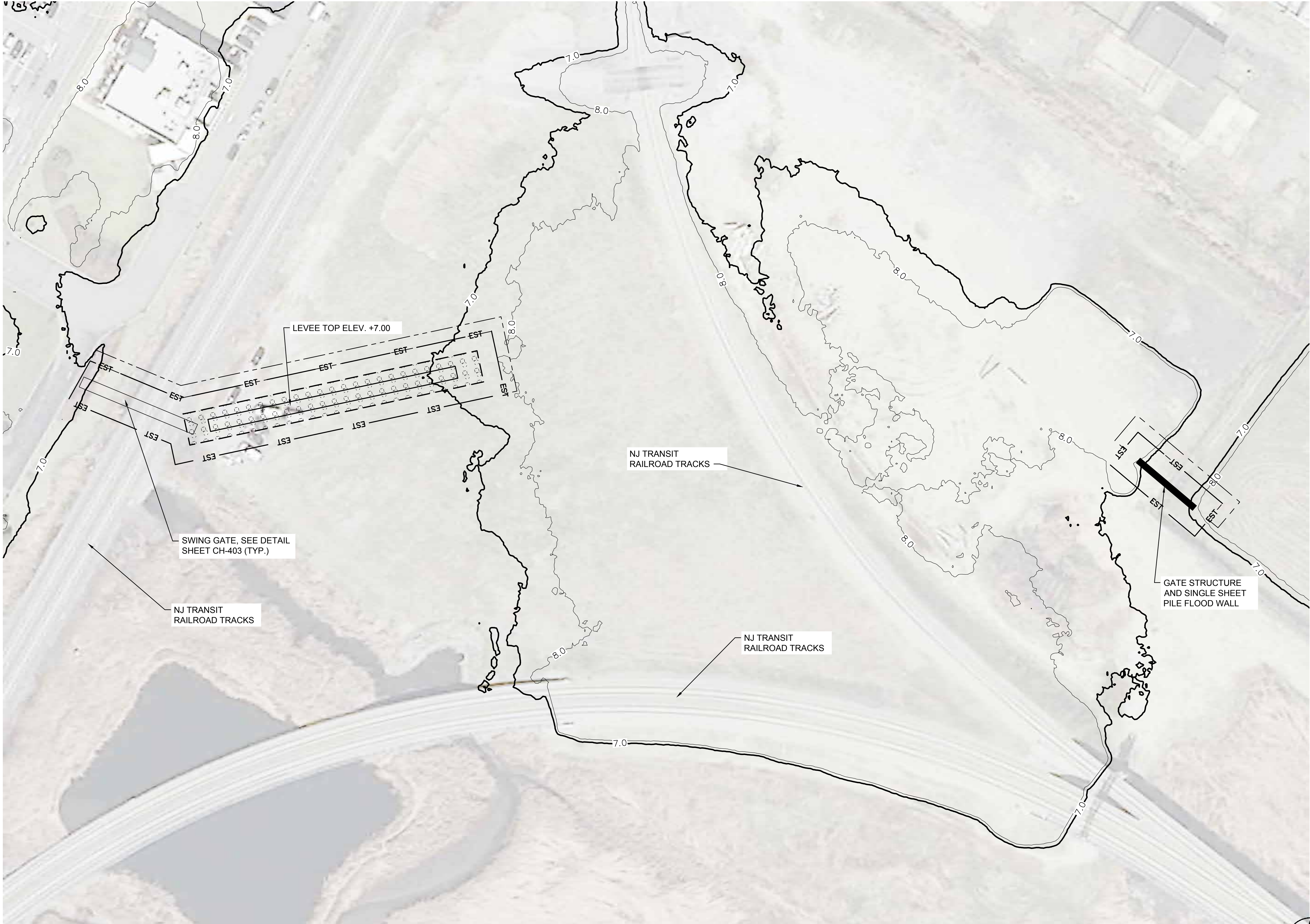
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
BERRY'S CREEK

SHEET NUMBER

CB-147



1 ALTERNATIVE 1-ELEVATION □



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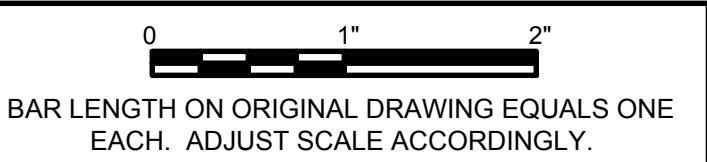
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DESIGNED BY	TM	□□□□□□
DRAWN BY	OM	□□□□□□
CHECKED BY	MJ	□□□□□□



HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

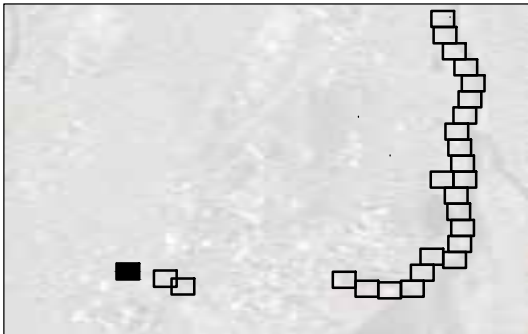
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PROJECT NUMBER

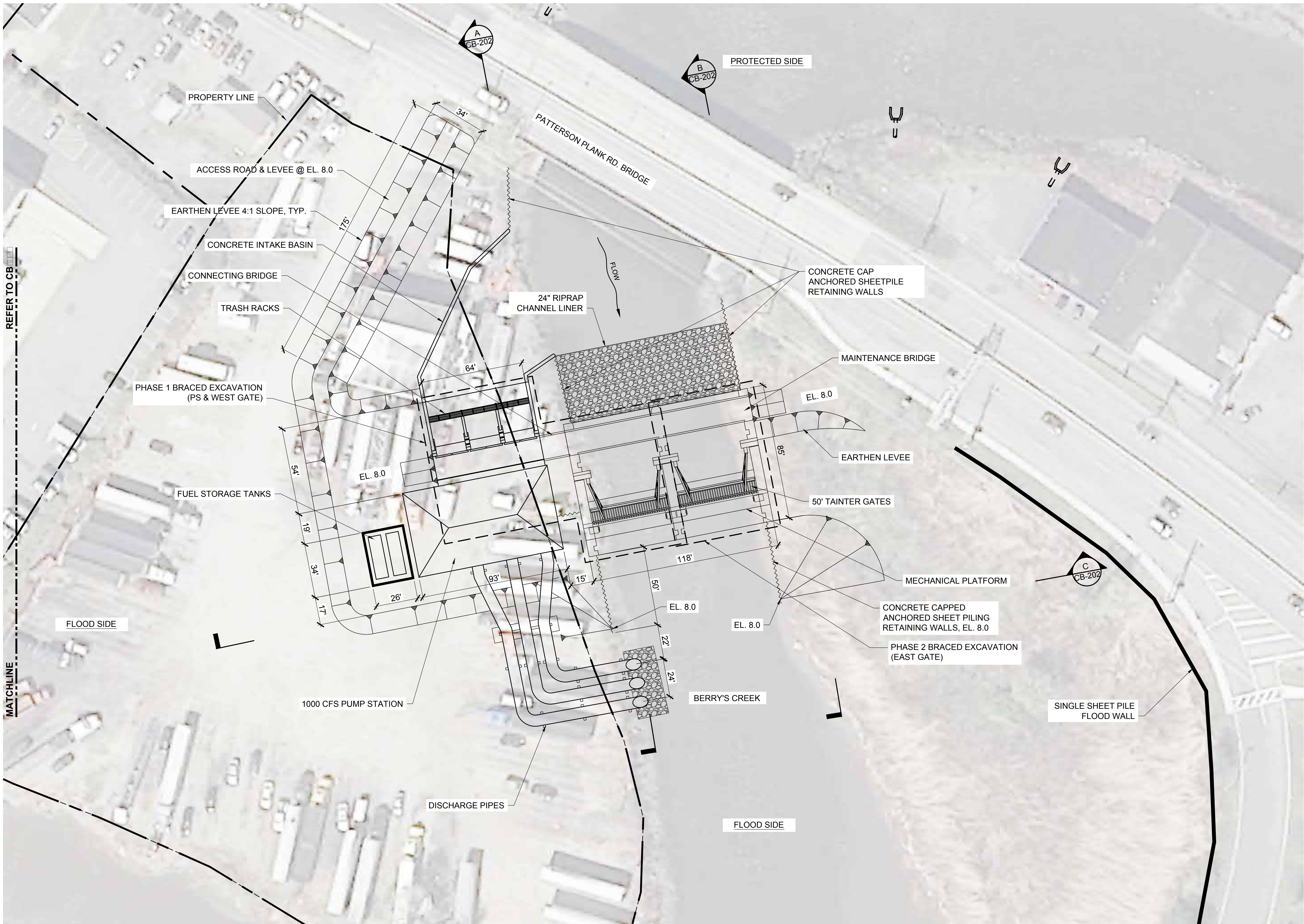
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
BERRY'S CREEK

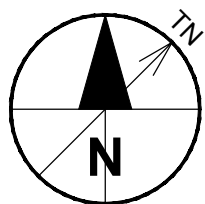
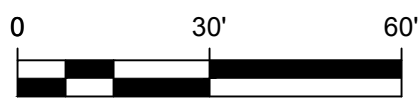
SHEET NUMBER

CB-148



1 ALTERNATIVE 1-ELEVATION 7

Scale: 1:30



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DESIGNED BY	AB	07/17/18
DRAWN BY	RJ	07/17/18
CHECKED BY	MG	07/17/18

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE
EACH. ADJUST SCALE ACCORDINGLY.

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REGISTRATION

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I	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1 - ELEVATION 7
BARRY'S CREEK STORM SURGE
BARRIER OVERALL SITE PLAN

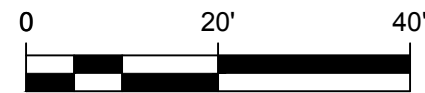
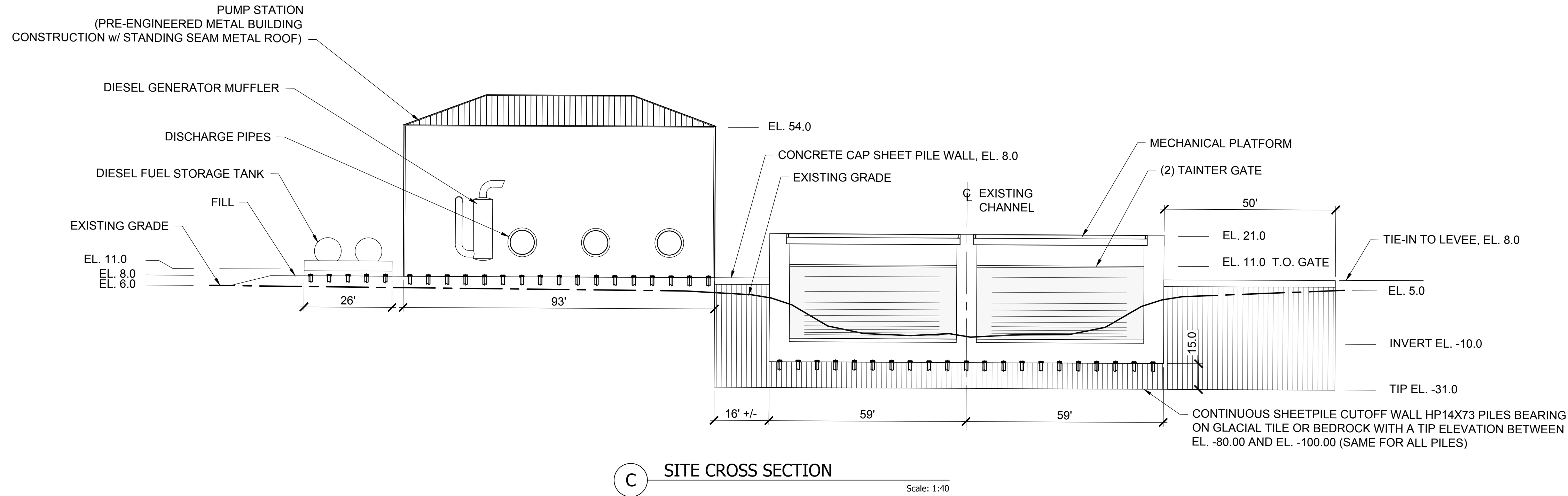
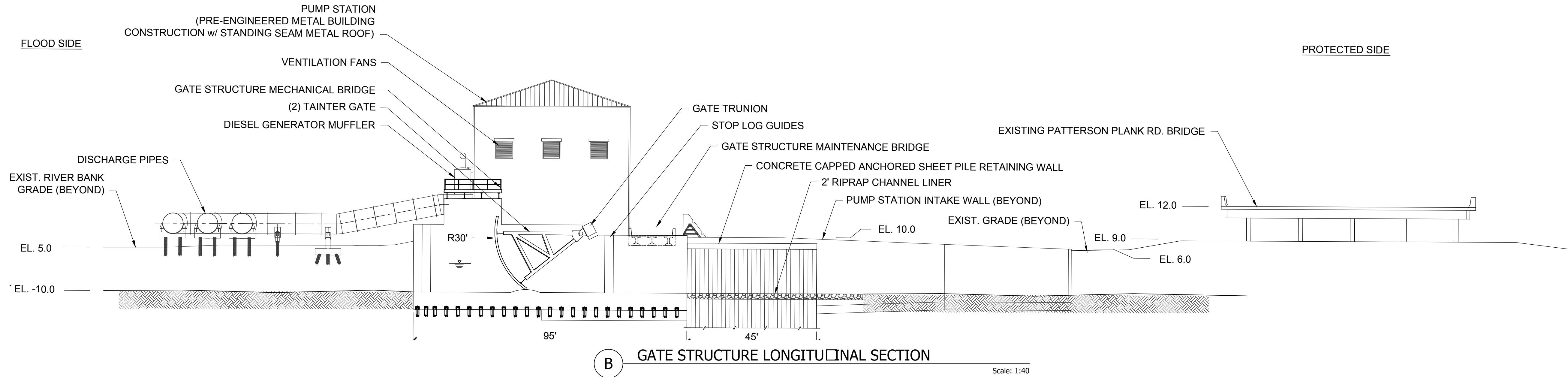
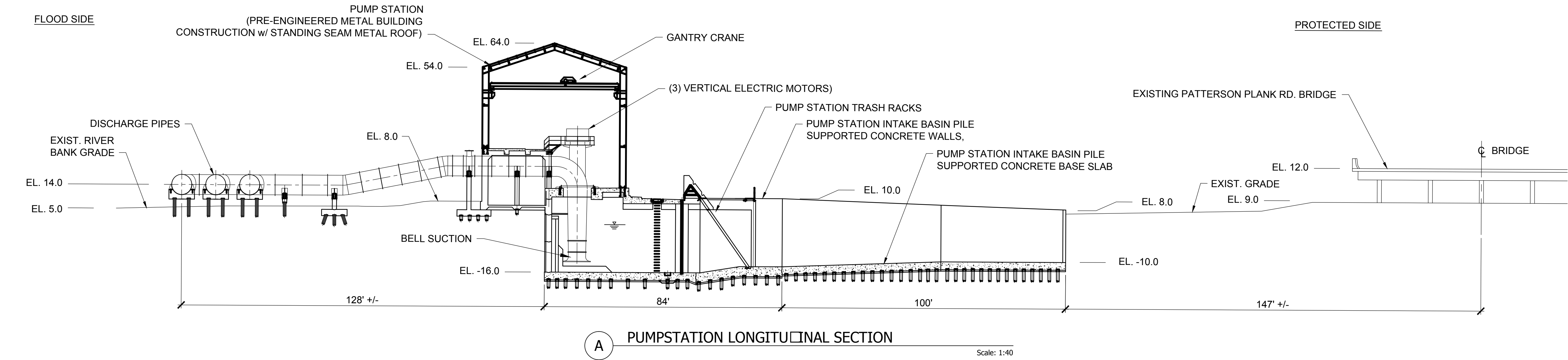
SHEET NUMBER

CB-201

ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

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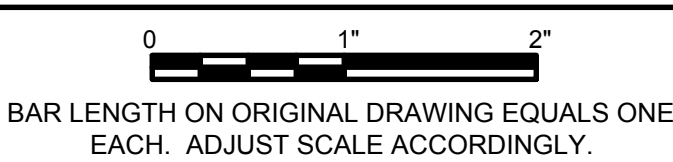
CONSULTANT

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DRAWN BY	RJ	07/17/18
CHECKED BY	MG	07/17/18



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KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

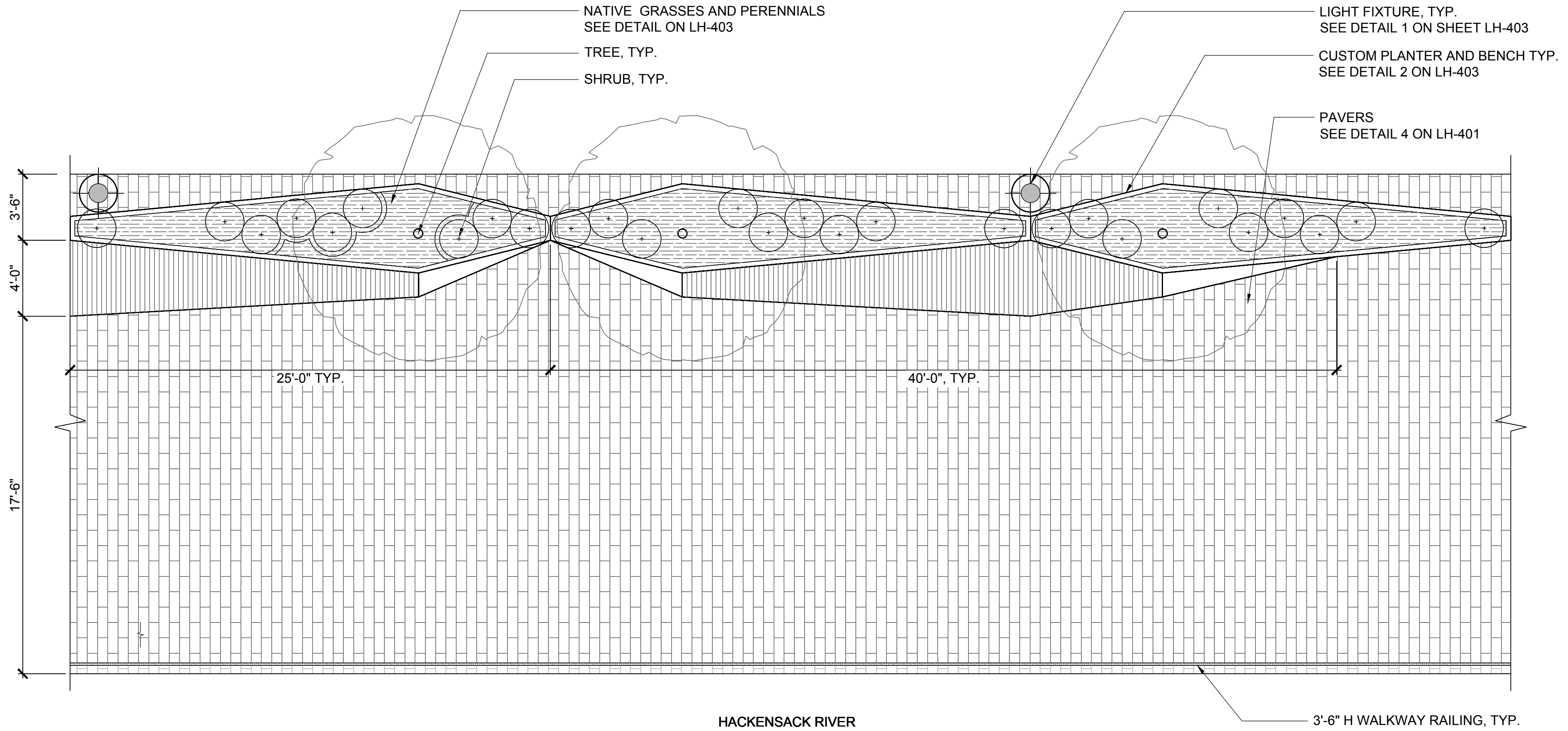
ALTERNATIVE 1 - ELEVATION 7
BERRY'S CREEK STORM SURGE
BARRIER SITE SECTIONS

SHEET NUMBER

CB-202

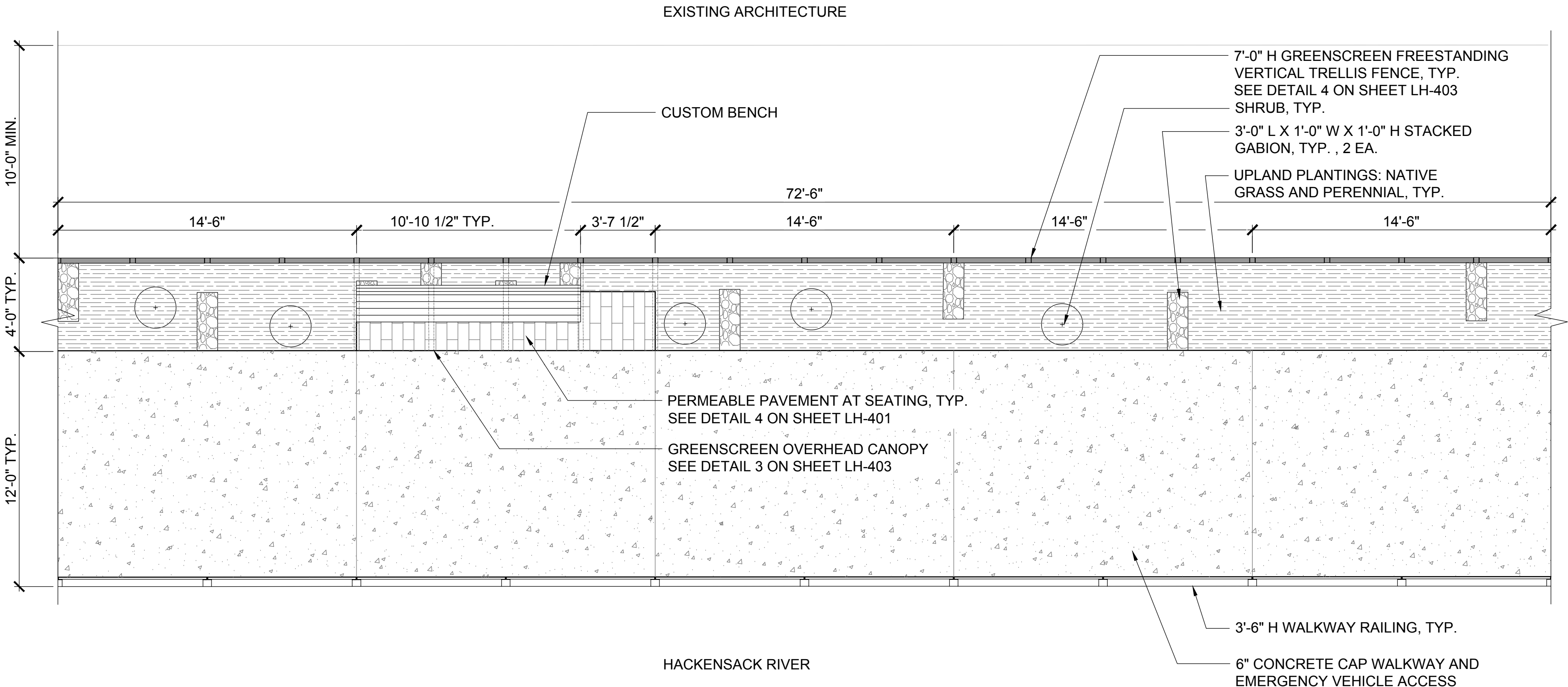
NOTES:

1. FOR TYPICAL PLANTING DETAIL REFER TO SHEET LH-402.
2. CUSTOM PLANTERS AND GABION TO BE DESIGNED AND DETAILED DURING FINAL DESIGN. SEE DETAIL 2, ON SHEET LH-403 FOR GENERAL REFERENCE.



2 TYPICAL ENLARGEMENT PLAN-CANTILEVER WALKWAY

Scale: 1/4"=1'-0" 0 4' 8'



1 TYPICAL ENLARGEMENT PLAN-CANTILEVER SHEET PILE WALKWAY

Scale: 1/4"=1'-0" 0 4' 8'

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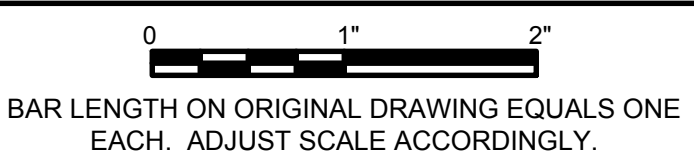
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DESIGNED BY	RM/LL	07/07/00
DRAWN BY	RM	07/07/00
CHECKED BY	LL/LM	07/07/00



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KEY PLAN

PROJECT NUMBER

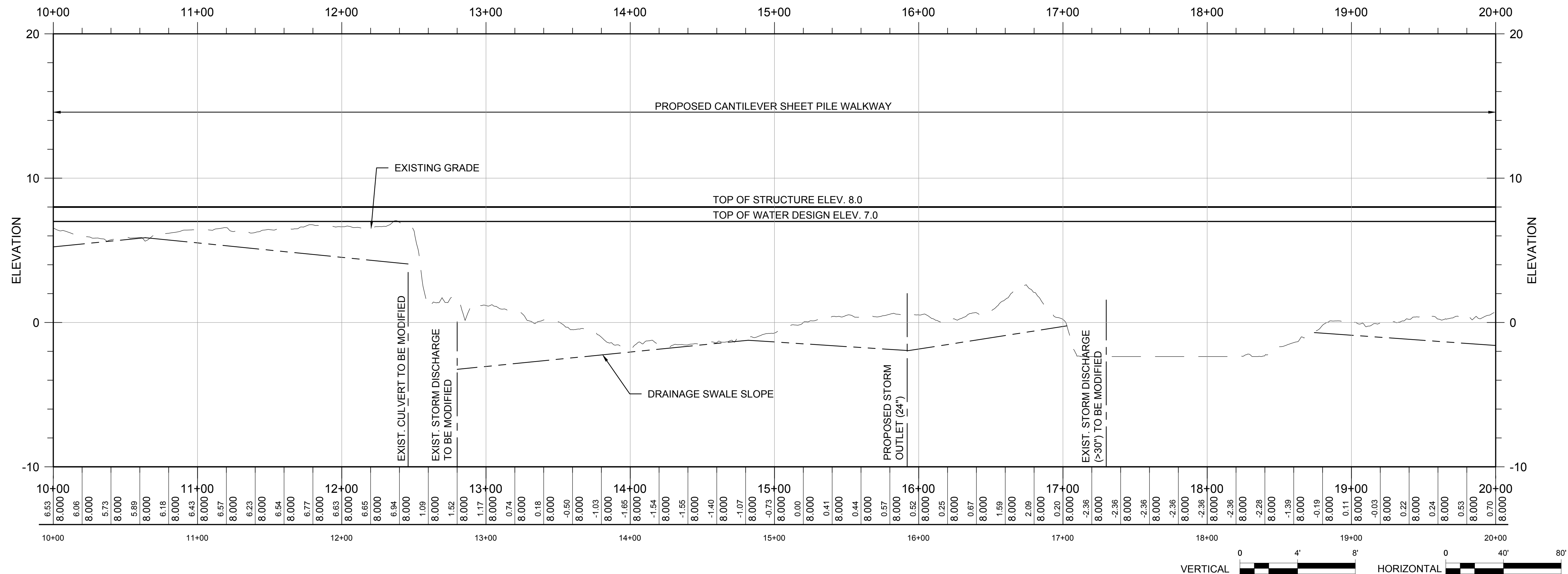
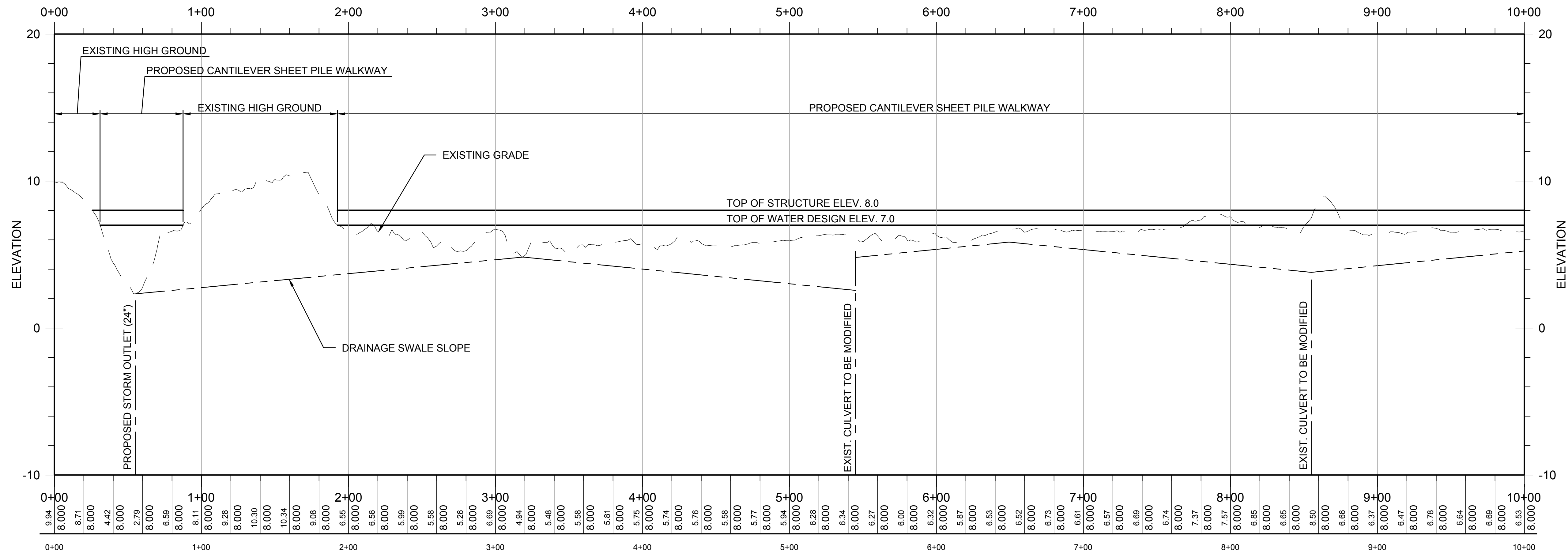
P1131-00 TC-001

SHEET TITLE

ENLARGEMENT
LANDSCAPE PLANS

SHEET NUMBER

LH-201



PROJECT

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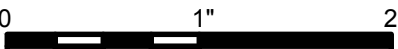
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DESIGNED BY	MJ	□□/□□/□□
DRAWN BY	OM	□□/□□/□□
CHECKED BY	BU	□□/□□/□□



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PROJECT NUMBER

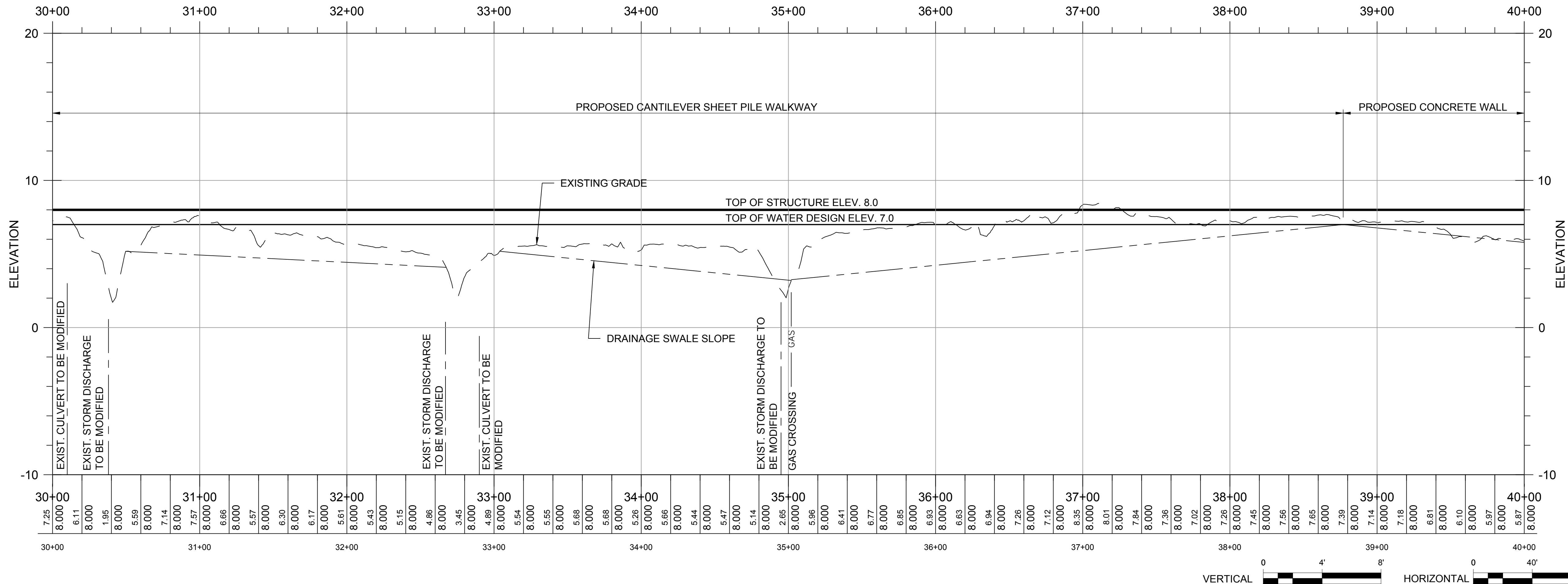
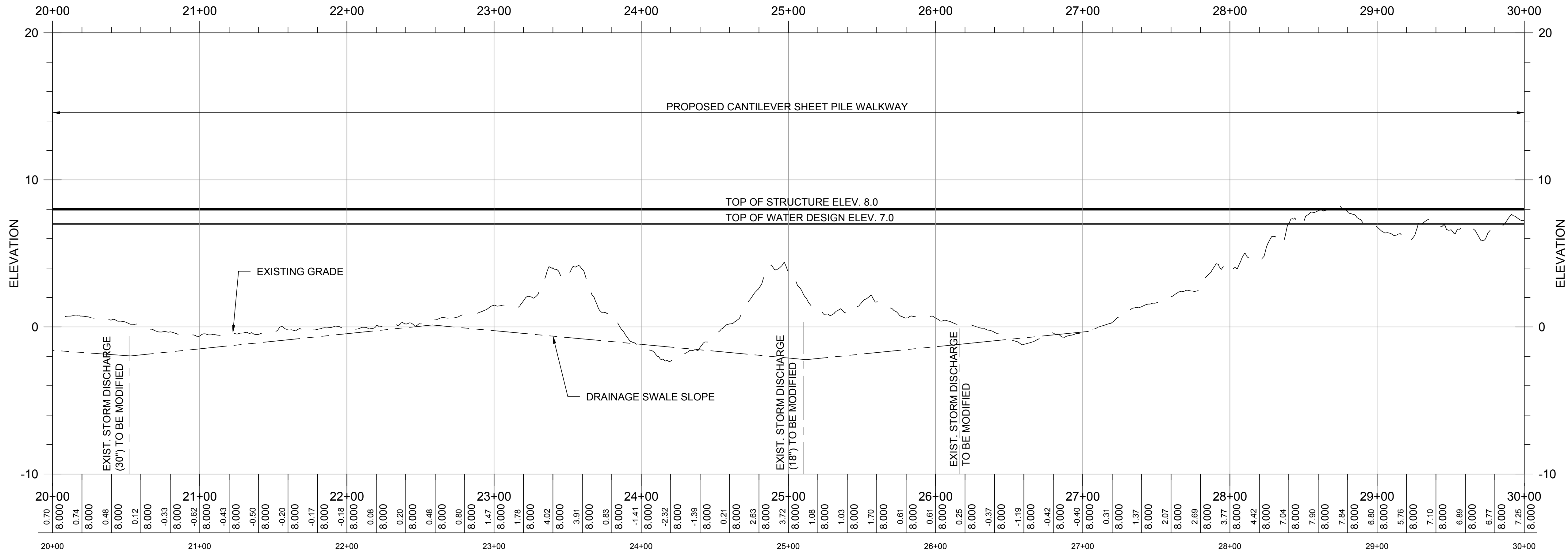
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 0+00 TO STA. 20+00

SHEET NUMBER

CH-301



PROJECT

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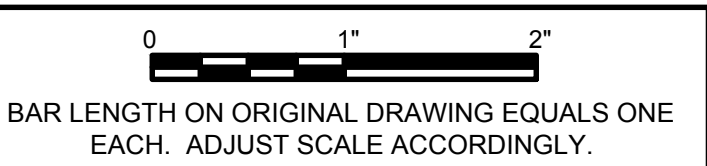
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DESIGNED BY	MJ	□□/□□/□□
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CHECKED BY	BU	□□/□□/□□



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KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

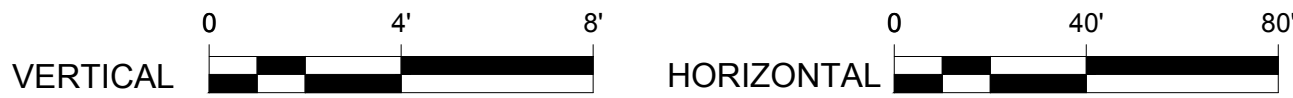
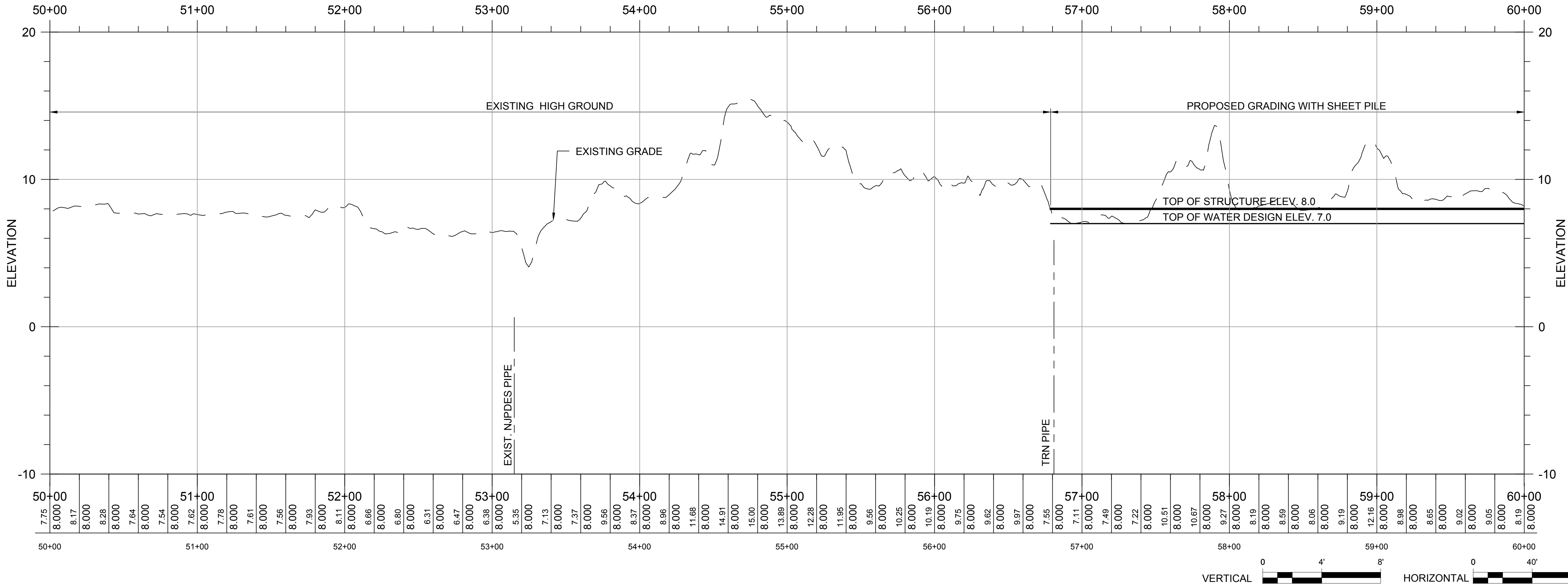
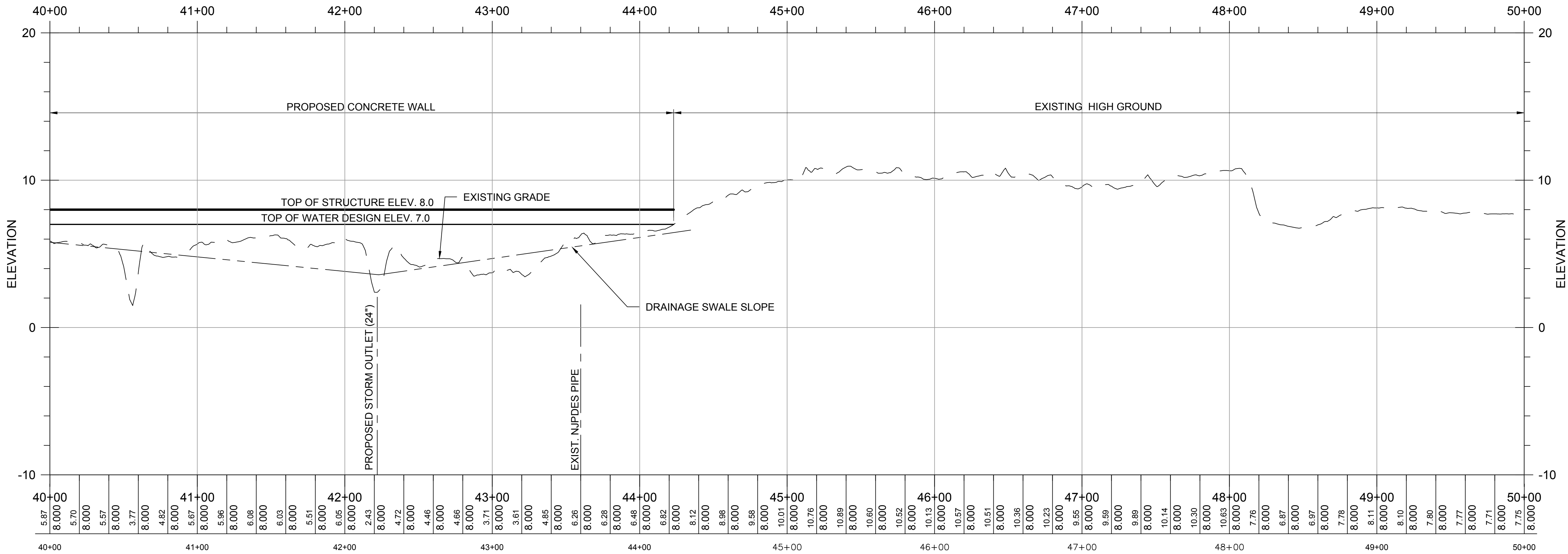
SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 20+00 TO STA. 40+00

SHEET NUMBER

CH-302

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____ ANSI D 22" x 34"



PROJECT

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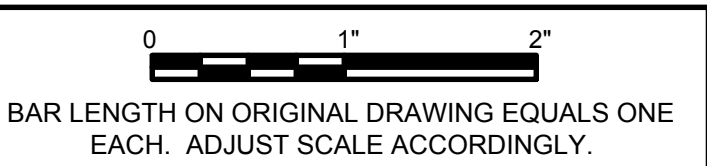
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DESIGNED BY	MJ	□□□□□□
DRAWN BY	OM	□□□□□□
CHECKED BY	BU	□□□□□□



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KEY PLAN

PROJECT NUMBER

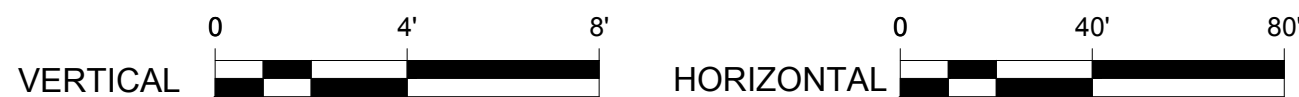
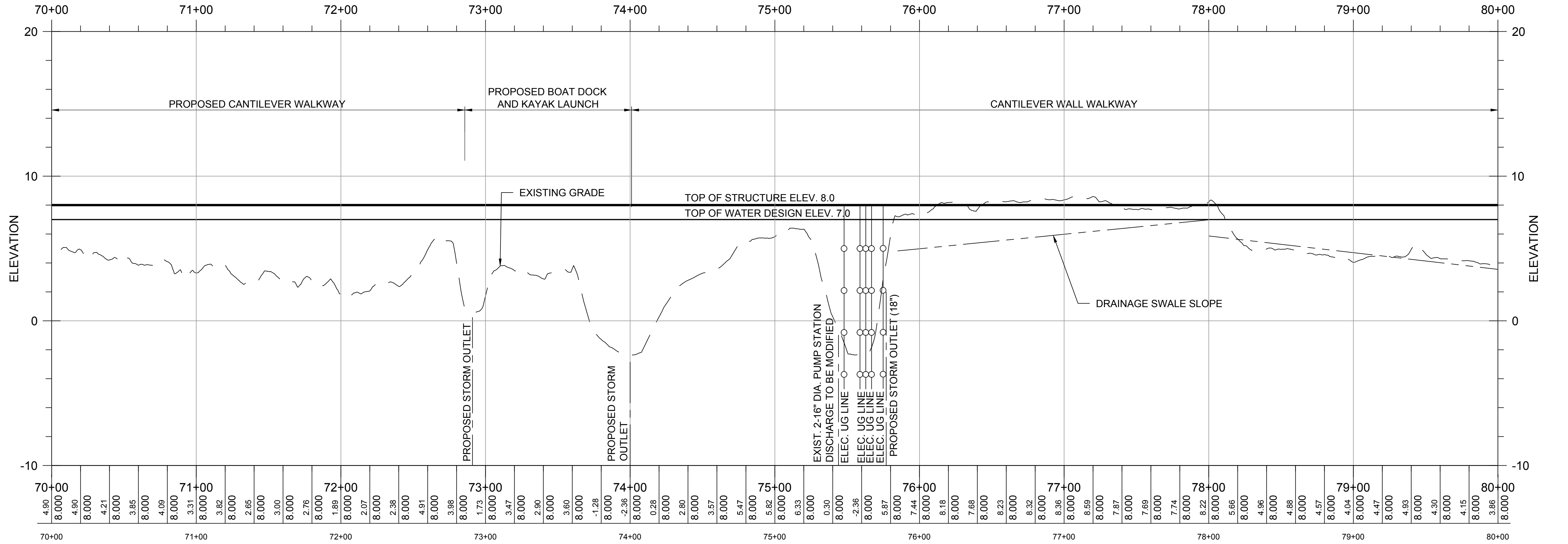
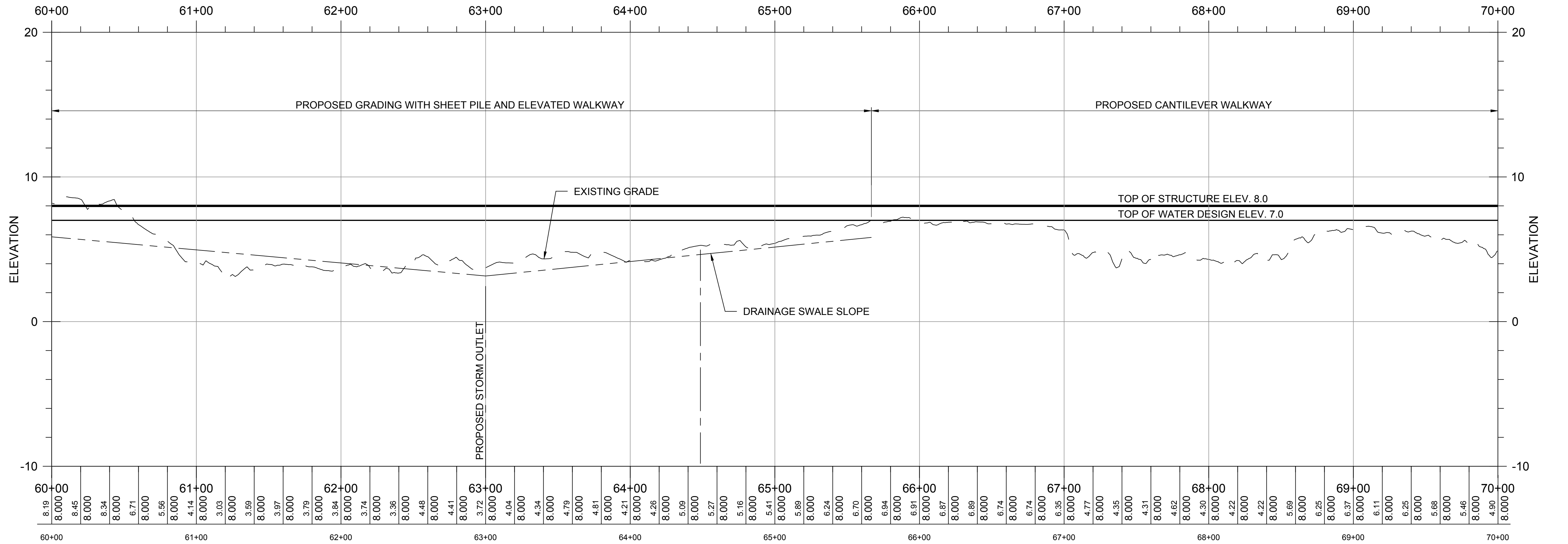
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 40+00 TO STA. 60+00

SHEET NUMBER

CH-303



PROJECT

REBUILD BY DESIGN:
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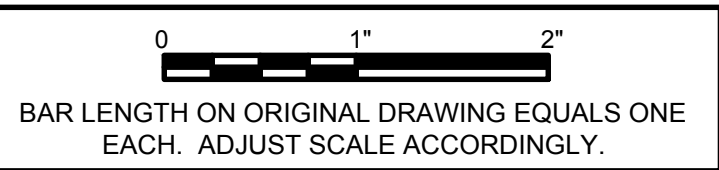
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DRAWN BY	OM	
CHECKED BY	BU	



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REGISTRATION

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KEY PLAN

PROJECT NUMBER

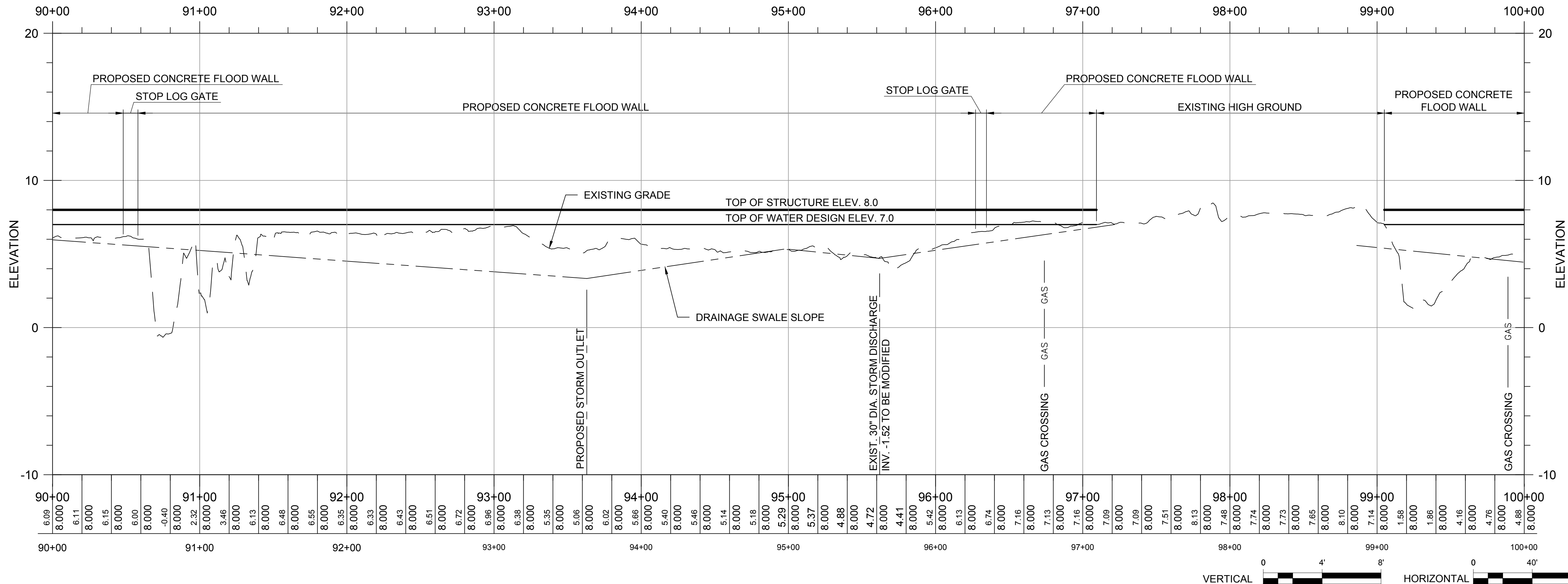
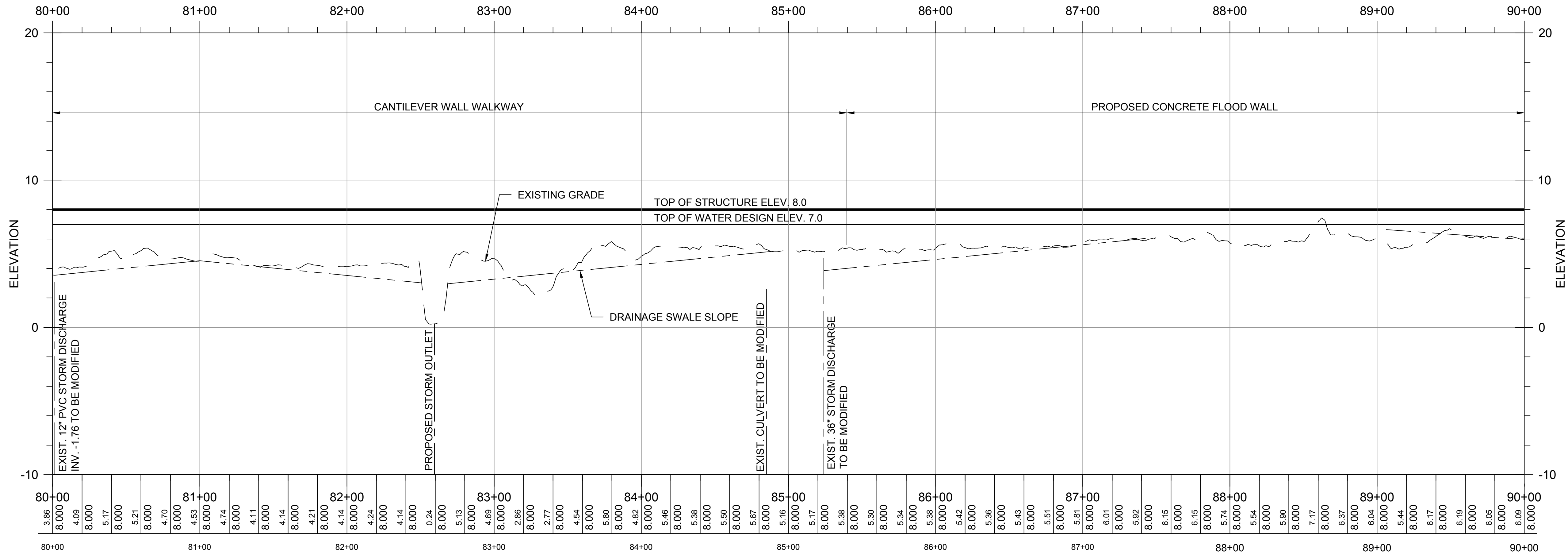
P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 60+00 TO STA. 80+00

SHEET NUMBER

CH-304



PROJECT

REBUILD BY DESIGN:
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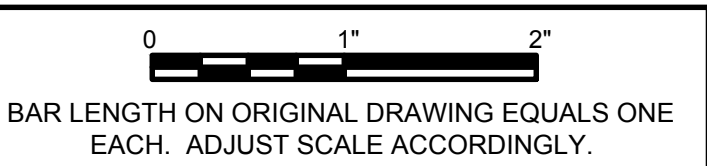
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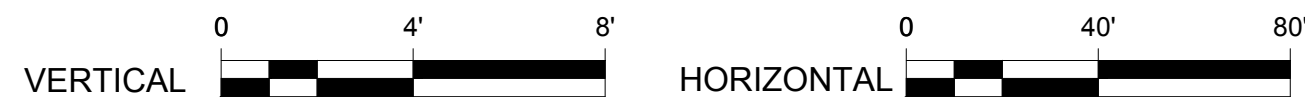
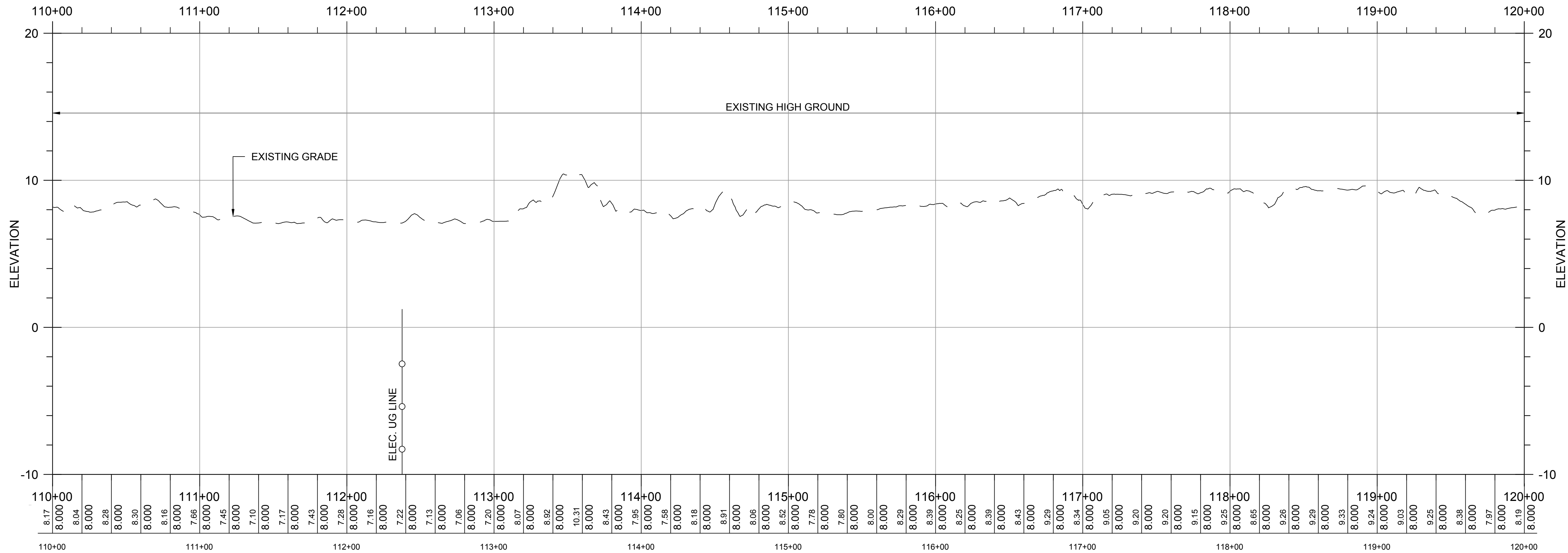
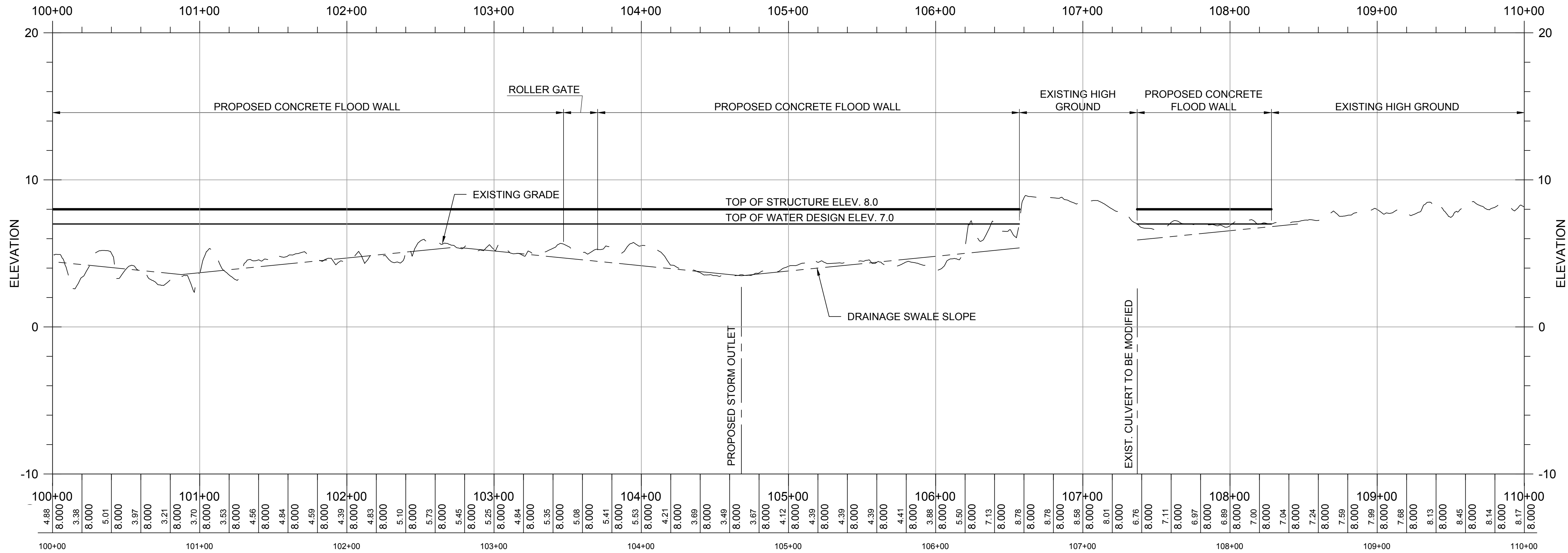
SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 80+00 TO STA. 100+00

SHEET NUMBER

CH-305

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____ ANS I D 22" x 34"



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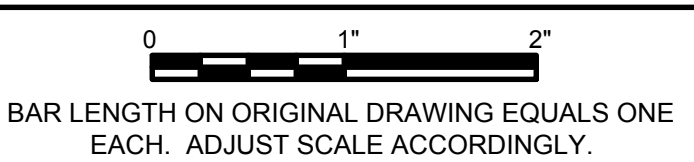
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DRAWN BY	OM	☐
CHECKED BY	BU	☐



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PROJECT NUMBER

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SHEET TITLE

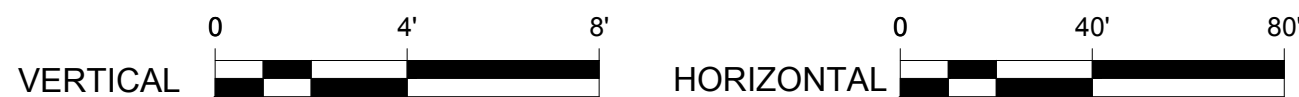
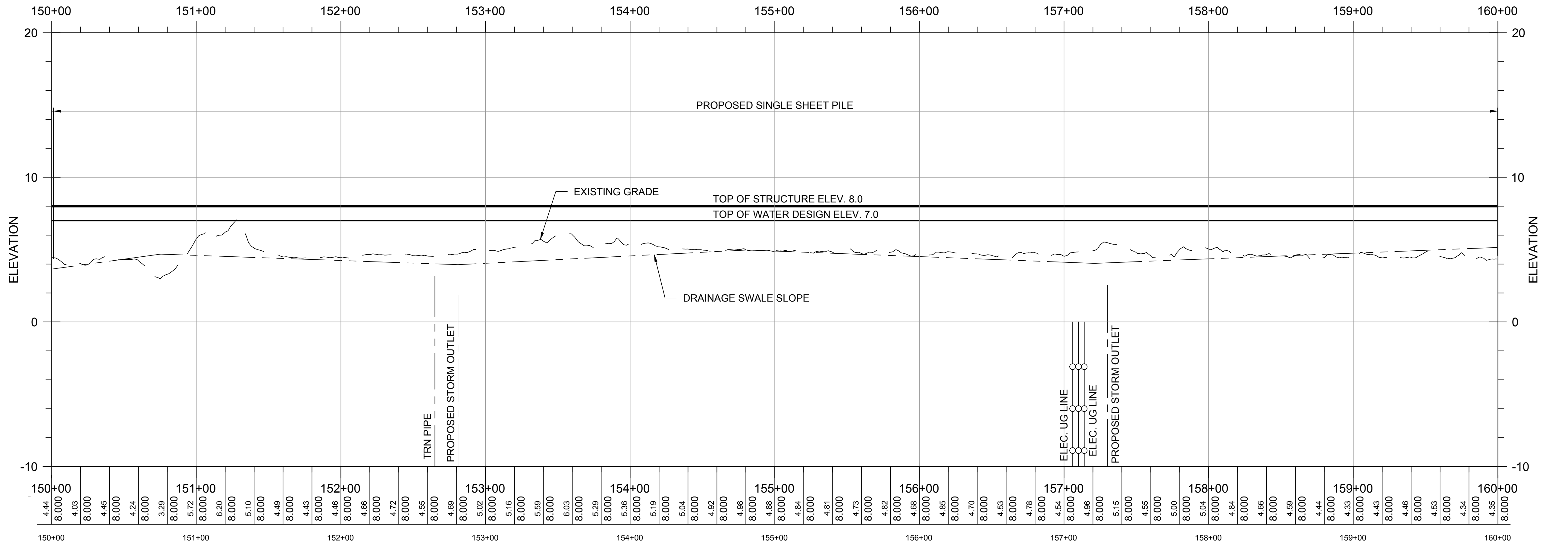
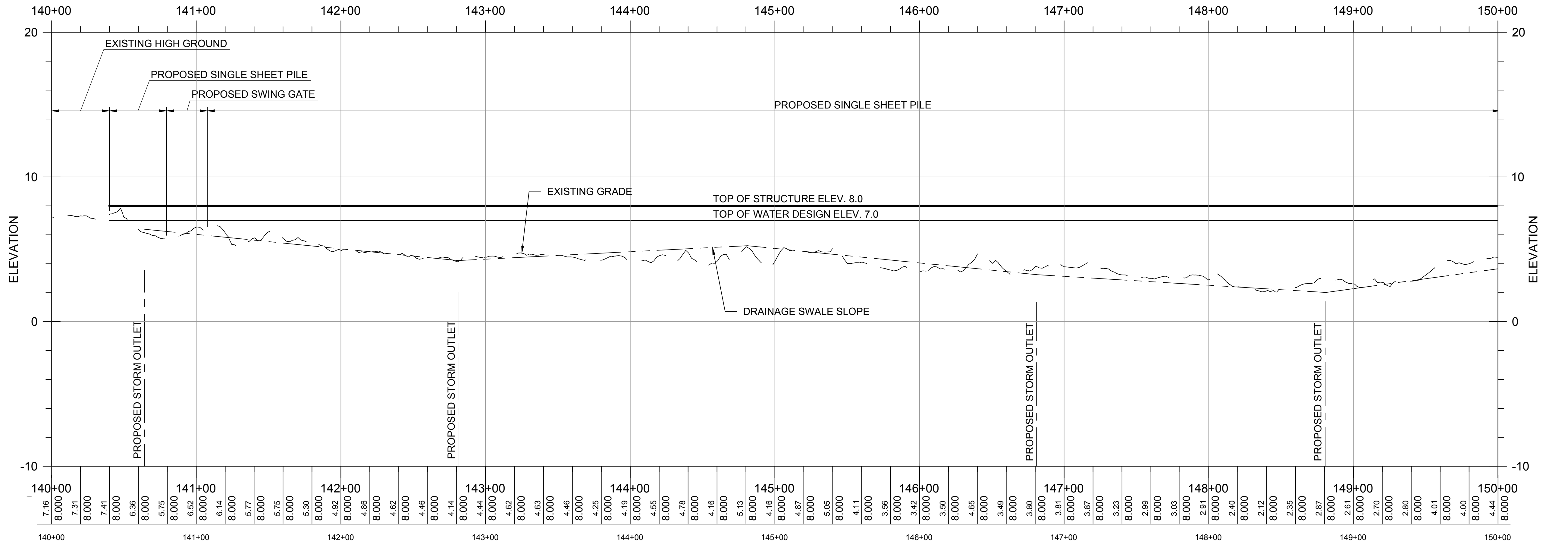
ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 100+00 TO STA. 120+00

SHEET NUMBER

CH-306

CH-307

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____ ANS I D 22" x 34"



PROJECT

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0 1" 2"

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PROJECT NUMBER

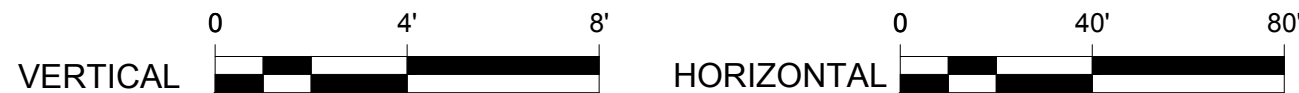
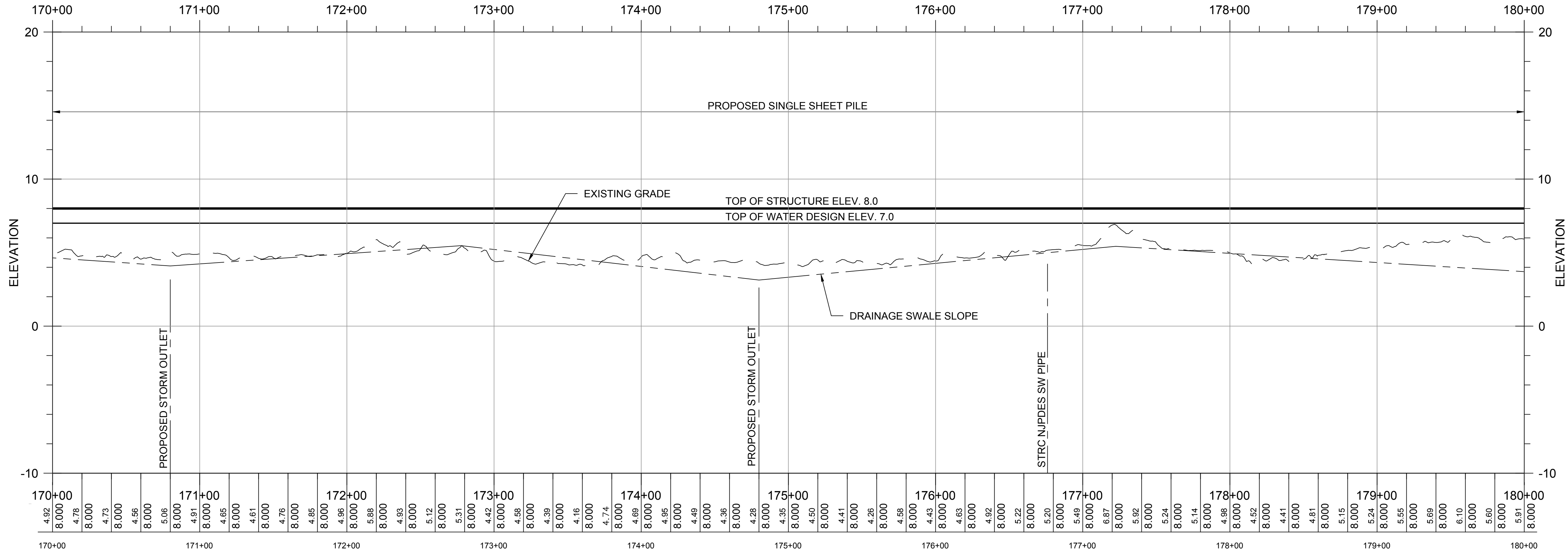
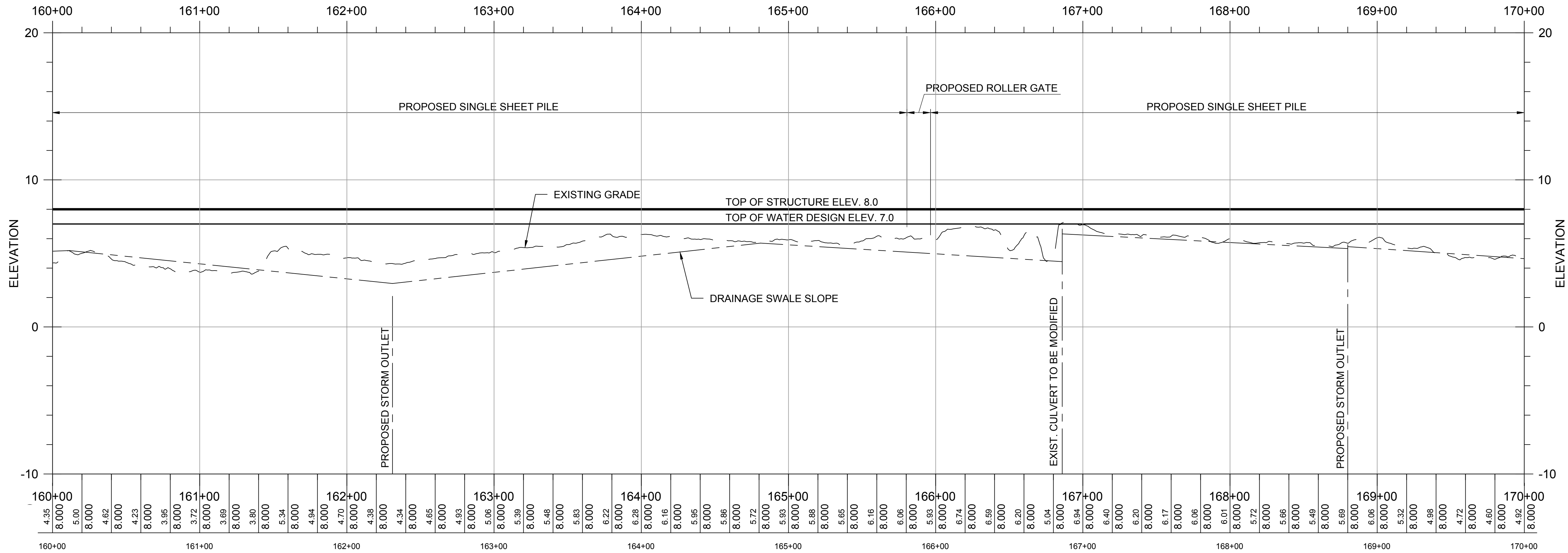
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SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 140+00 TO STA. 160+00

SHEET NUMBER

CH-308



PROJECT

REBUILD BY DESIGN:
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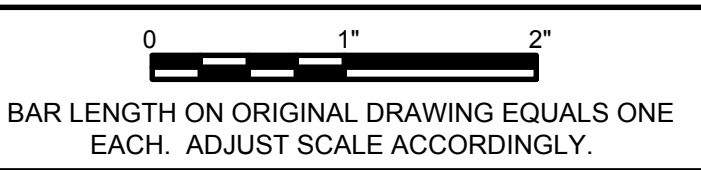
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DRAWN BY	OM	□□□□□□
CHECKED BY	BU	□□□□□□



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KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 160+00 TO STA. 180+00

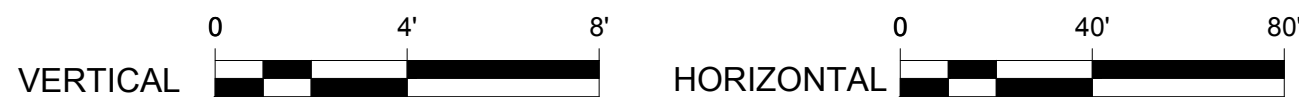
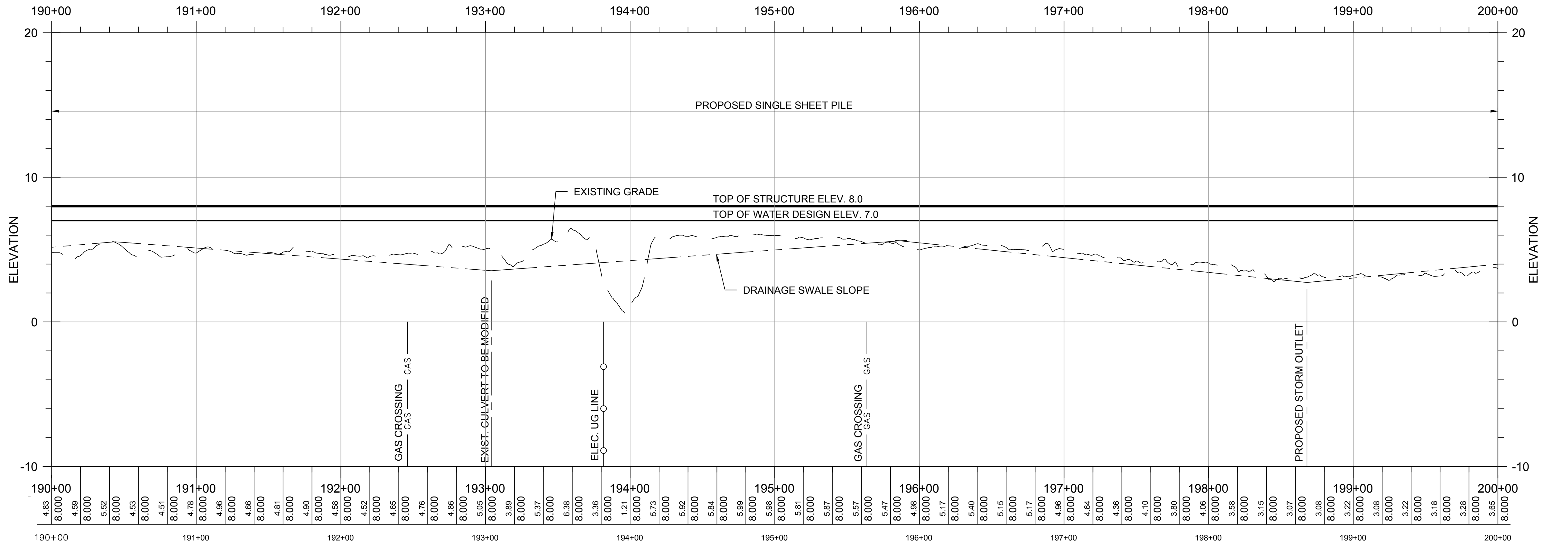
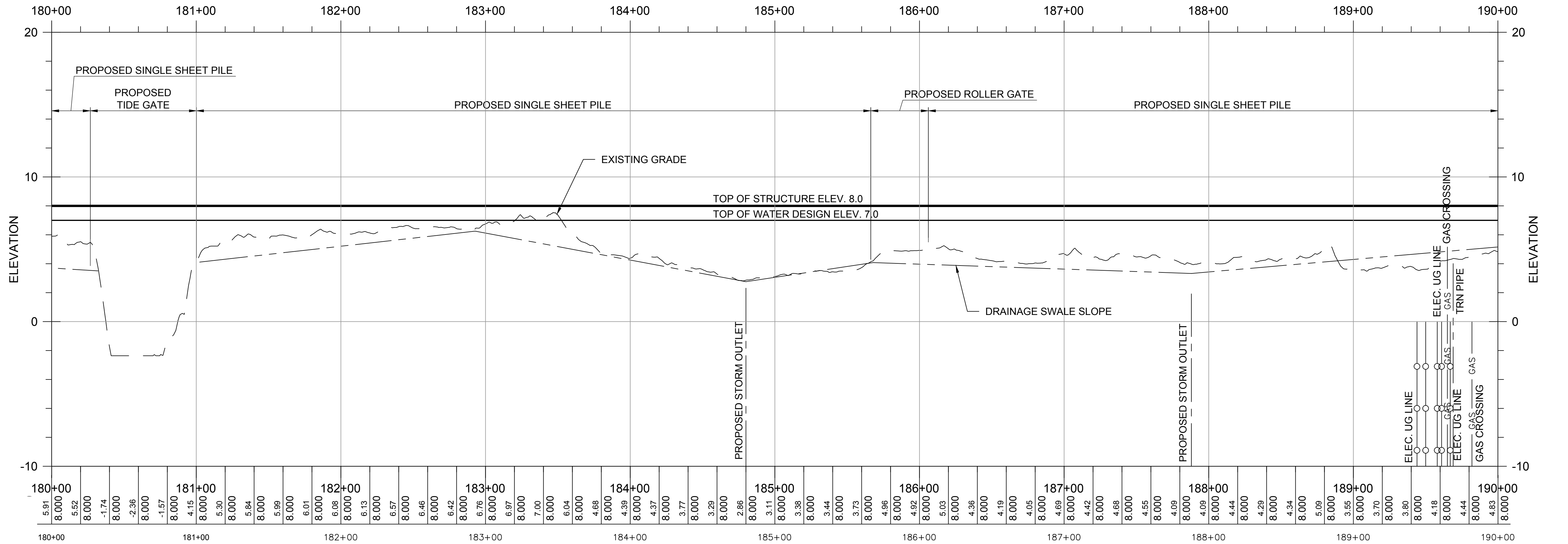
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CH-309

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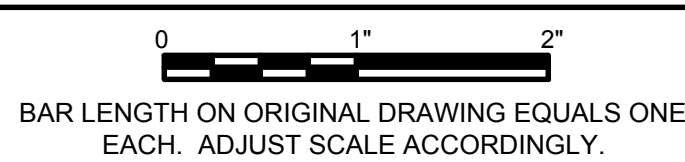
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DESIGNED BY	MJ	□□□□□□
DRAWN BY	OM	□□□□□□
CHECKED BY	BU	□□□□□□



HORIZONTAL DATUM IS NAD83 NEW JERSEY
STATE PLANES, US FOOT
VERTICAL DATUM IS NAVD 88

REGISTRATION

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ISSUE/REVISION

I	APR. 23, 2018	Draft Feasibility Report
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

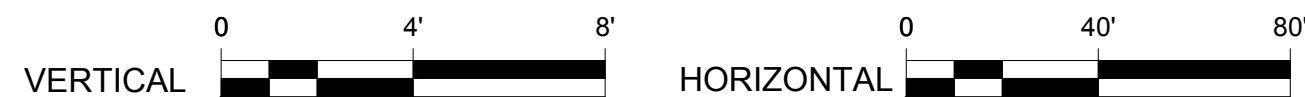
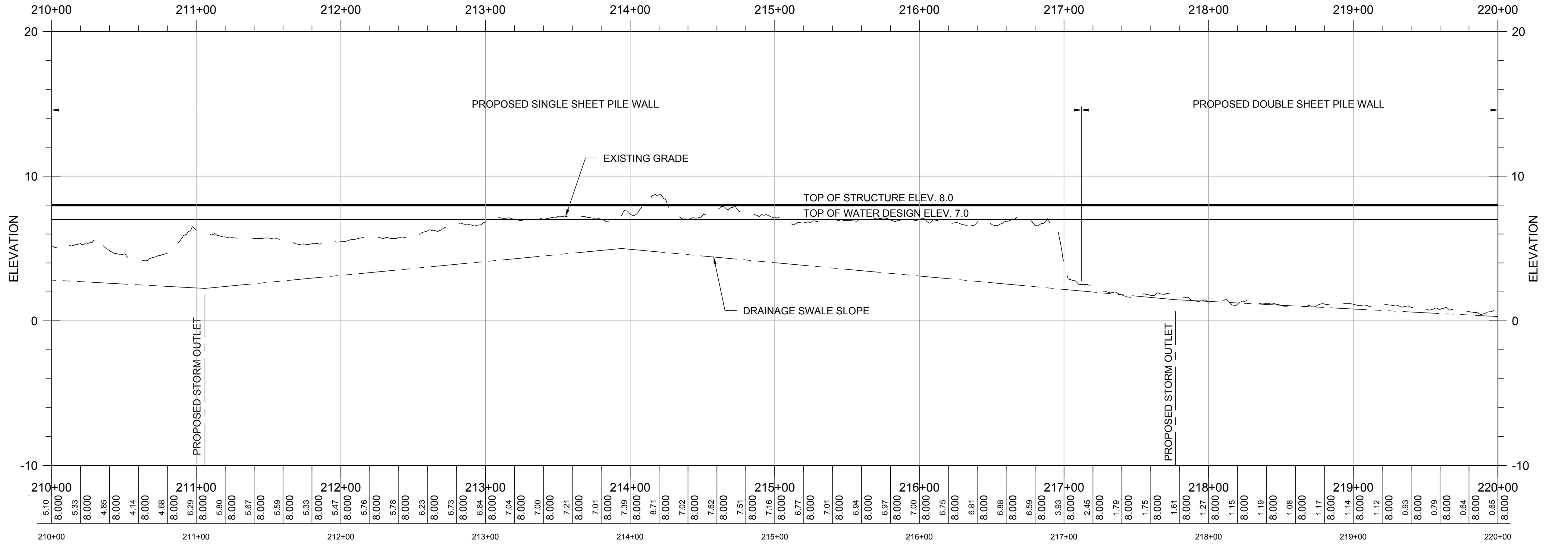
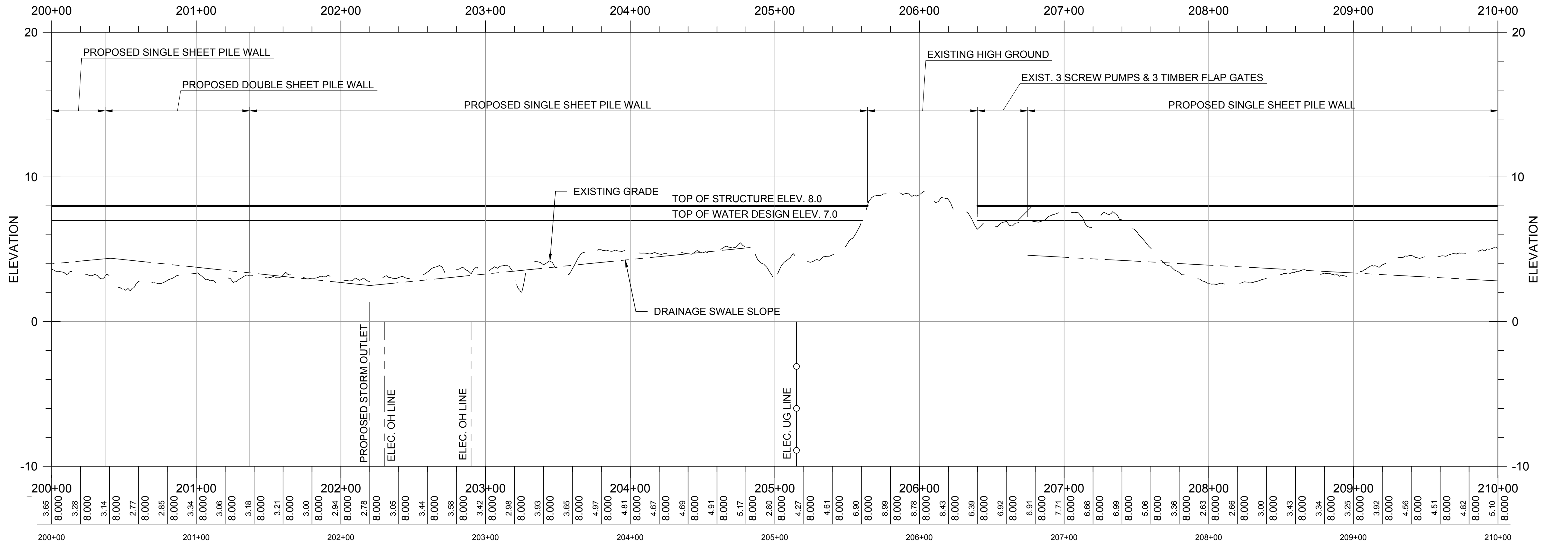
SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 180+00 TO STA. 200+00

SHEET NUMBER

CH-310

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____
ANSI D 22" x 34"



AECOM

PROJECT

**REBUILD BY DESIGN:
MEADOWLANDS**

CLIENT

NJDEP

401 East State Street
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HDR
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DESIGNED BY	MJ	□□□□□□
DRAWN BY	OM	□□□□□□
CHECKED BY	BU	□□□□□□



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KEY PLAN

PROJECT NUMBER

P1131-00 TC-001

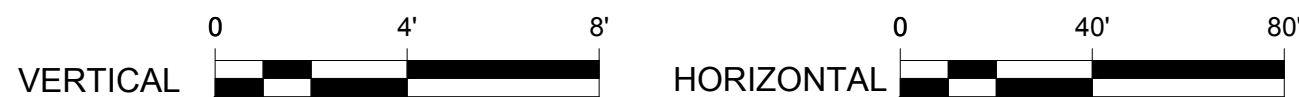
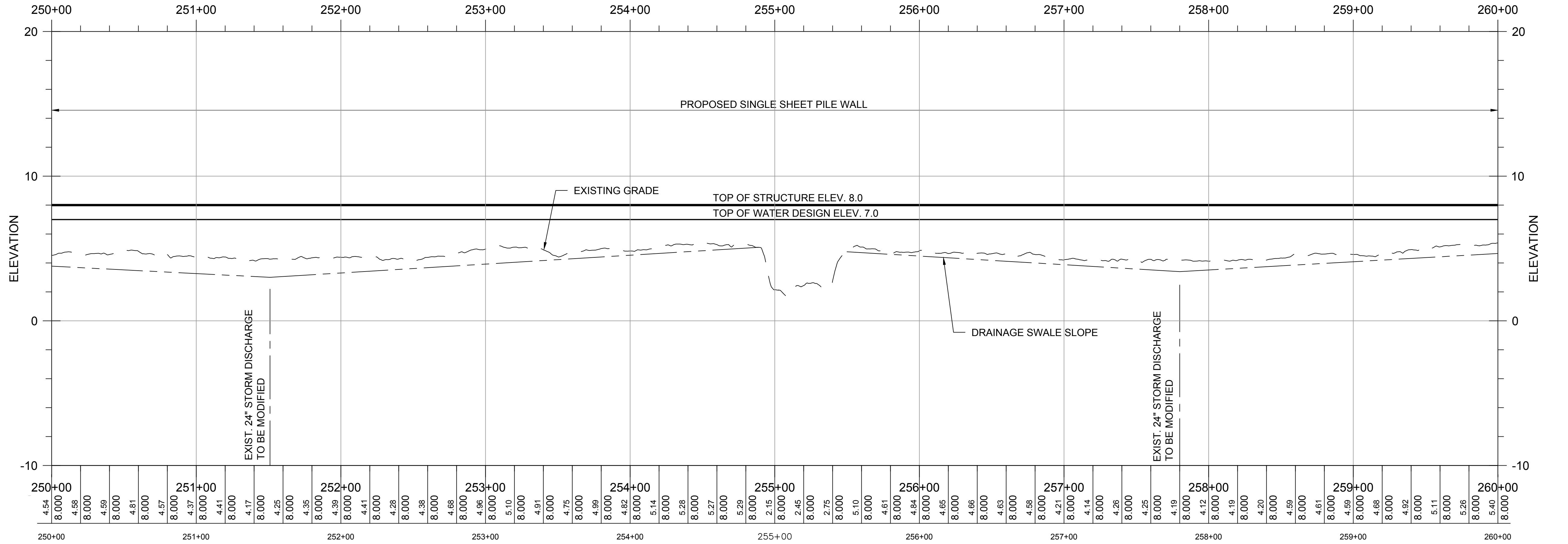
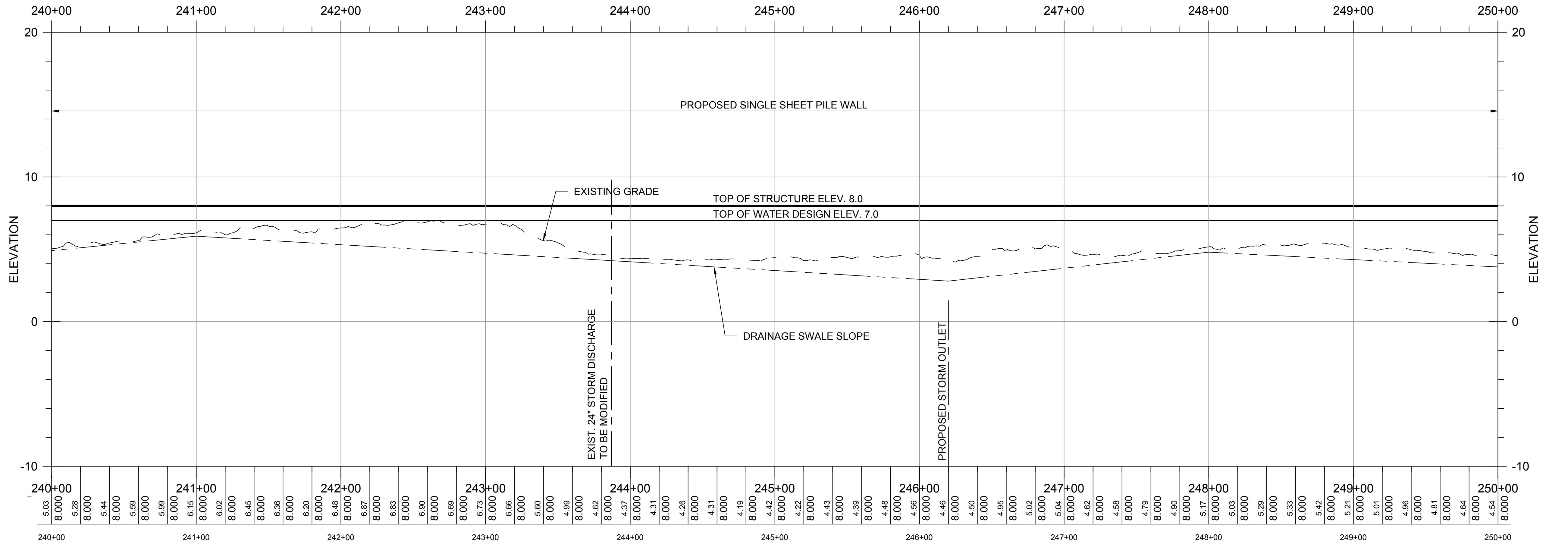
SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 200+00 TO STA. 220+00

SHEET NUMBER

CH-311

CH-312



PROJECT

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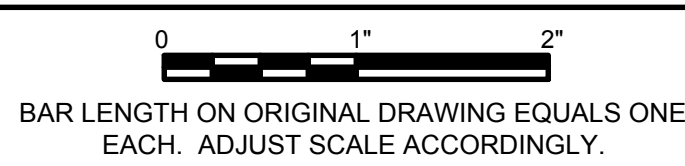
CONSULTANT

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DESIGNED BY	MJ	☐
DRAWN BY	OM	☐
CHECKED BY	BU	☐



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PROJECT NUMBER

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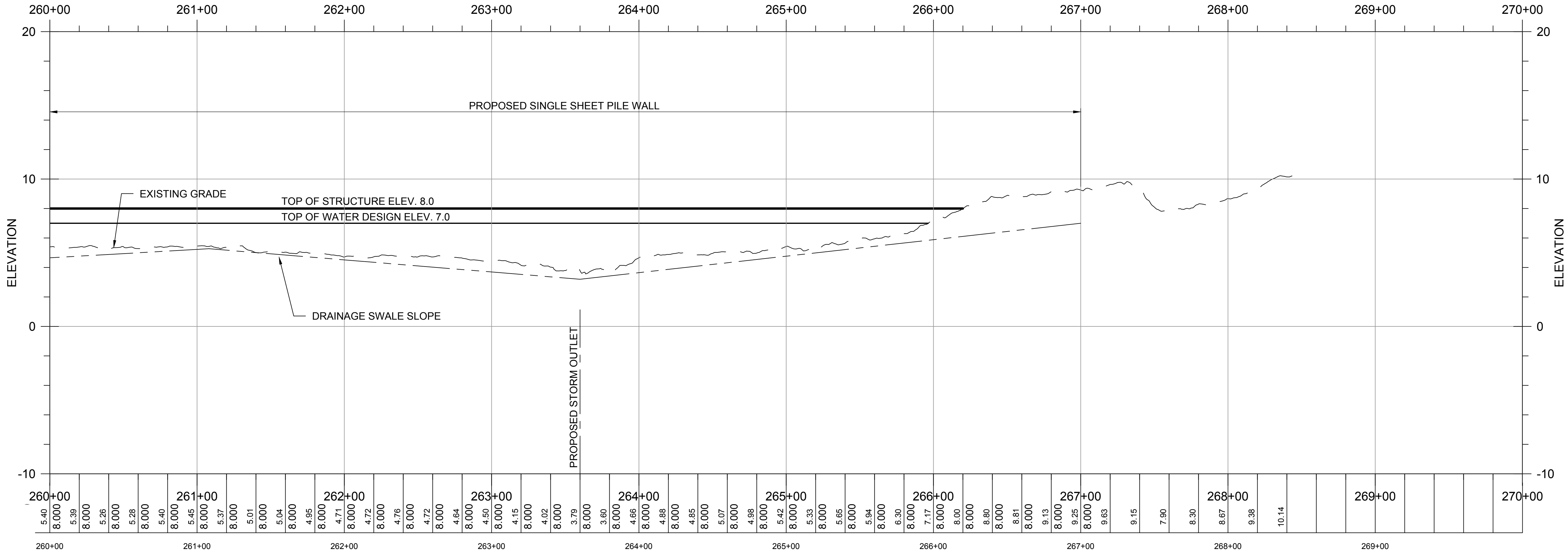
SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 240+00 TO STA. 260+00

SHEET NUMBER

CH-313

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____
ANSI D 22" x 34"



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PROJECT

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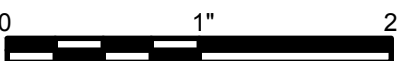
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DESIGNED BY	MJ	□□/□□
DRAWN BY	OM	□□/□□
CHECKED BY	BU	□□/□□



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE
EACH. ADJUST SCALE ACCORDINGLY.

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I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

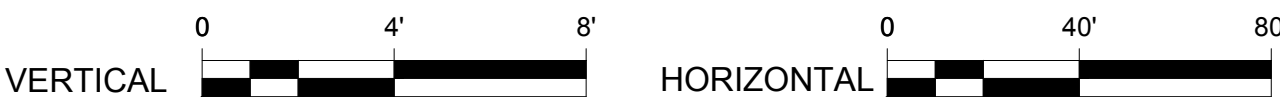
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SHEET TITLE

ALTERNATIVE 1- ELEVATION 7
PROFILE STA. 260+00 TO STA. 268+40

SHEET NUMBER

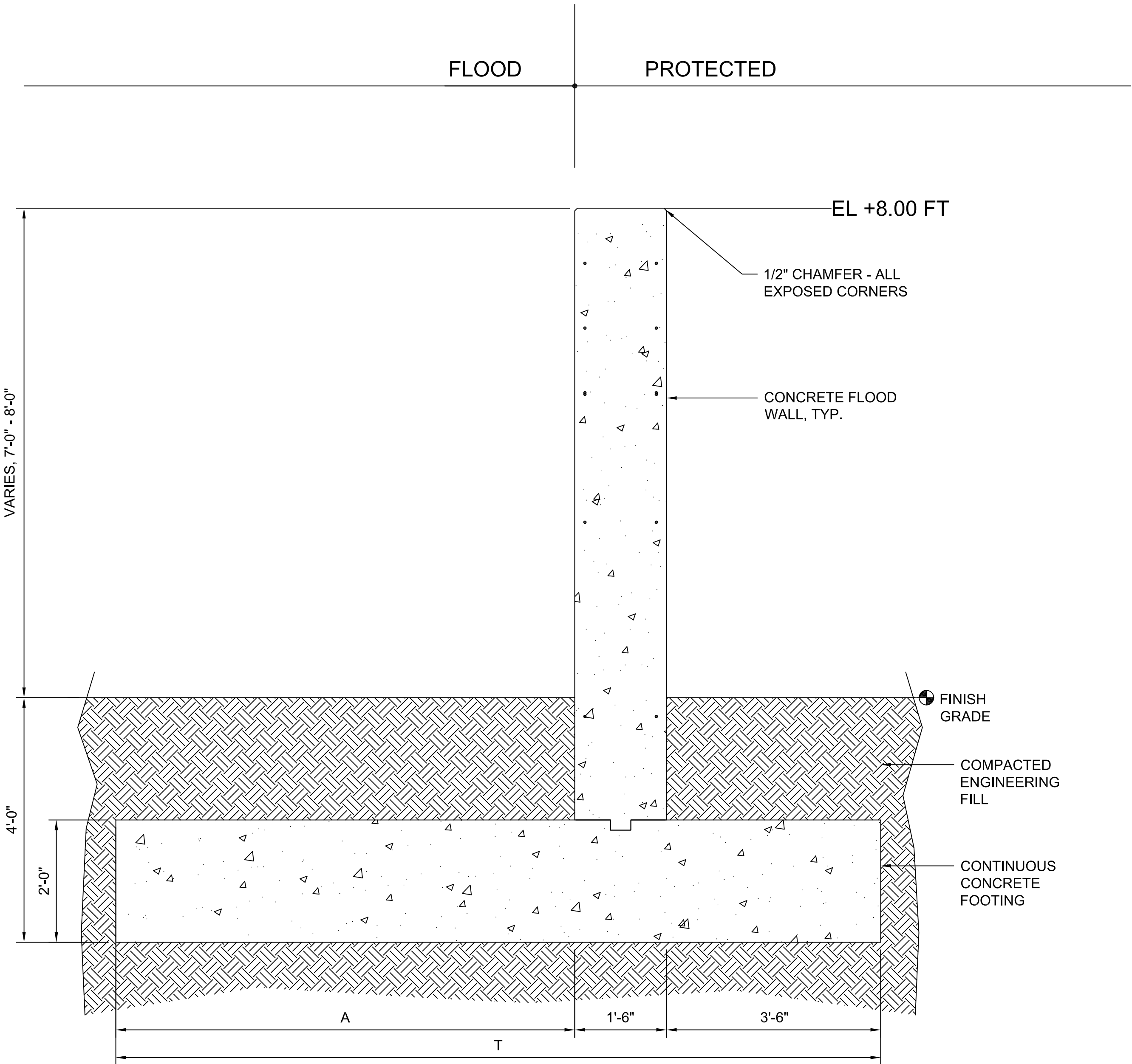
CH-314



ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

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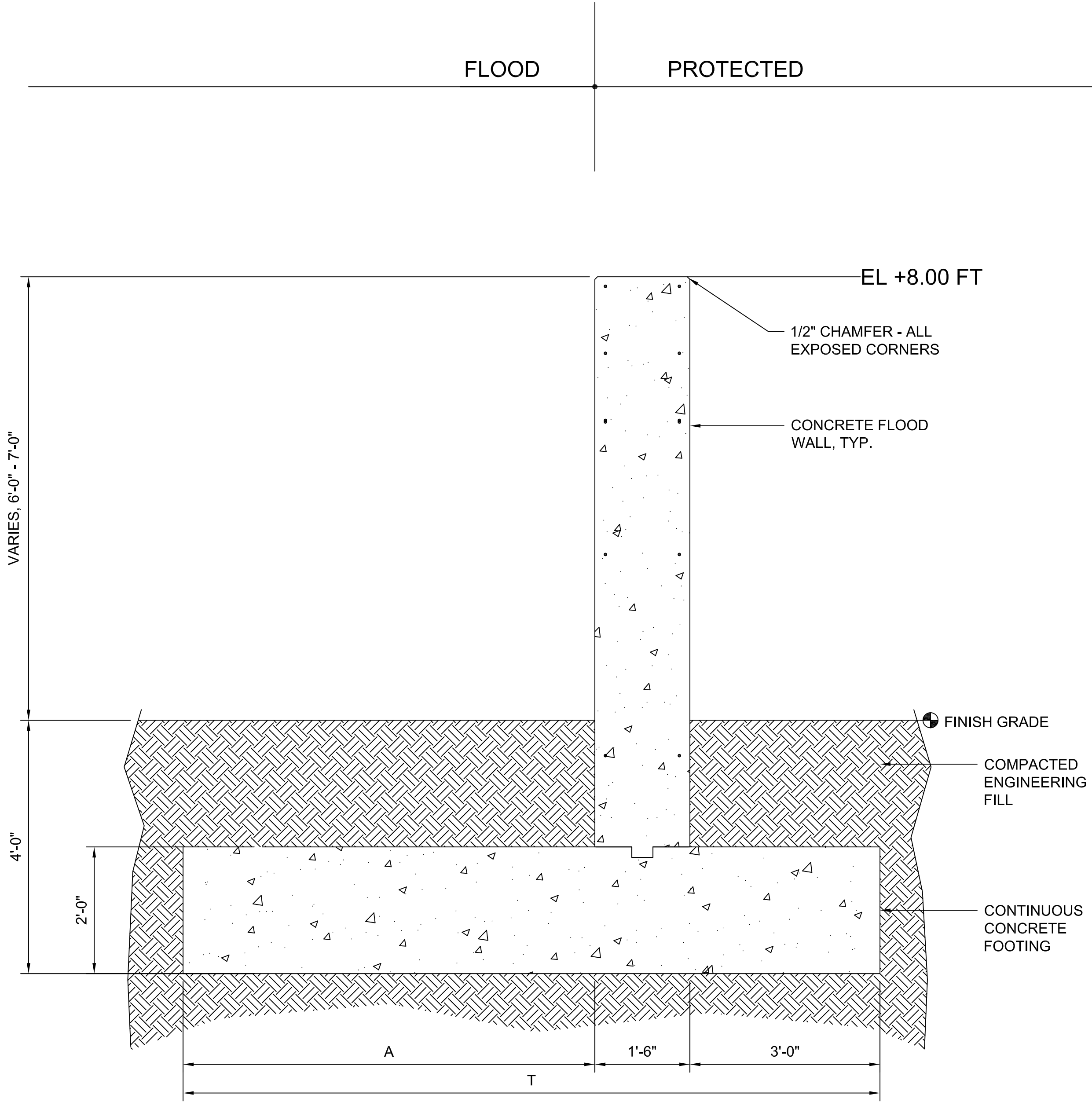
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NOTES:
FOR SOIL AREA 1, A EQ. 6'-6" & T EQ. 11'-6".
FOR SOIL AREAS 2 AND 3, A EQ. 7'-6" & T EQ. 12'-6".

NOTES:
FOR LOCATIONS OF SOIL AREAS,
REFER FIGURE C1-1 IN APPENDIX C1.

2 7' TO 8' HT CONCRETE FLOOD WALL (T-WALL) SECTION - AREAS 1-3
Scale: 3/4" = 1'-0"



NOTES:
FOR SOIL AREA 1, A EQ. 5'-0" & T EQ. 9'-6".
FOR SOIL AREAS 2 AND 3, A EQ. 6'-6" & T EQ. 11'-0".

1 6' TO 7' HT CONCRETE FLOOD WALL (T-WALL) SECTION - AREAS 1-3
Scale: 3/4" = 1'-0"



PROJECT

REBUILD BY DESIGN:
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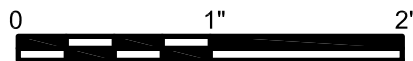
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DESIGNED BY	YK	03/2018
DRAWN BY	YK	03/2018
CHECKED BY	LC	03/2018



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.

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PROJECT NUMBER

P1131-00 TC-001

SHEET TITLE

TYPICAL STRUCTURAL SECTION-
CONCRETE FLOOD WALL (T-WALL)-
HEIGHT = 6' TO 8'

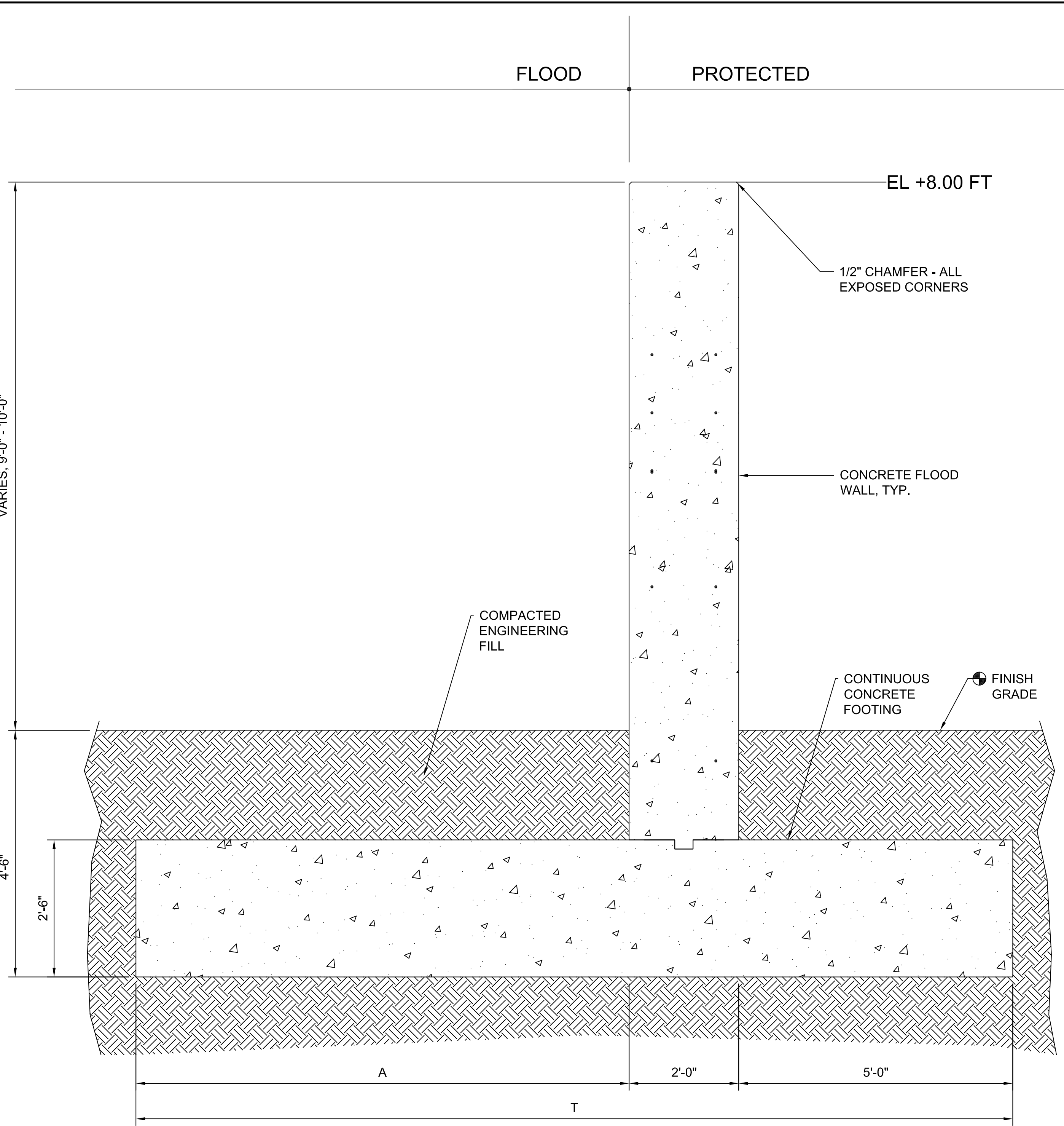
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S-402

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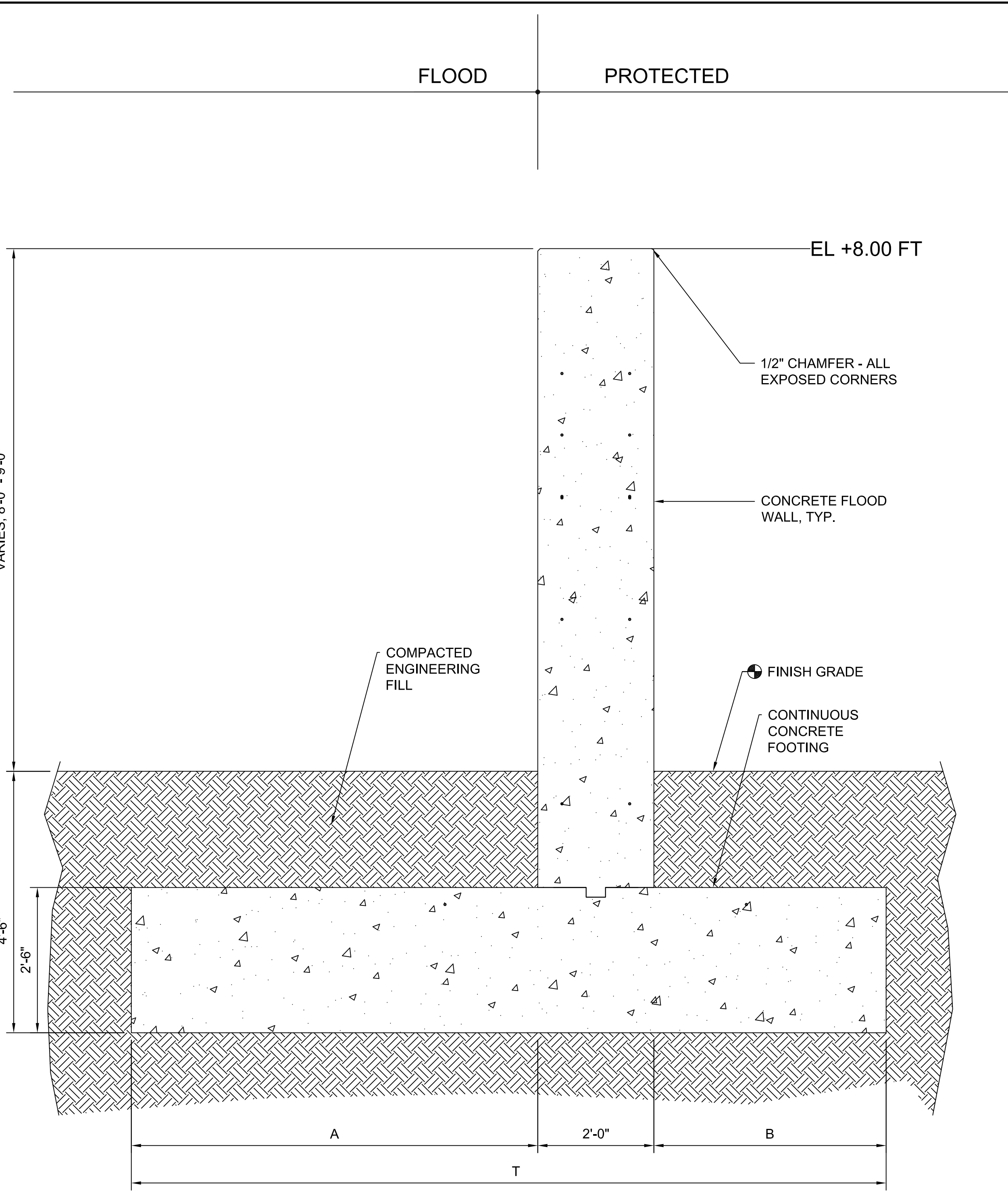
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Printed on _____% Post-Consumer Recycled Content Paper



NOTES:
FOR SOIL AREA 1, A EQ. 8'-0" & T EQ. 15'-0".
FOR SOIL AREAS 2 AND 3, A EQ. 9'-0" & T EQ. 16'-0".

2 9' TO 10' HT CONCRETE FLOOD WALL (T-WALL) SECTION - AREAS 1-3
Scale: 3/4" = 1'-0"



NOTES:
FOR SOIL AREA 1, A EQ. 7'-0", B EQ. 3'-6", & T EQ. 12'-6".
FOR SOIL AREAS 2 AND 3, A EQ. 8'-0", B EQ. 4'-0", & T EQ. 14'-0".

1 8' TO 9' HT CONCRETE FLOOD WALL (T-WALL) SECTION - AREAS 1-3
Scale: 3/4" = 1'-0"



PROJECT

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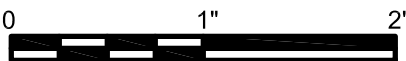
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1255 Broad Street, Suite 201
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DESIGNED BY	YK	03/2018
DRAWN BY	YK	03/2018
CHECKED BY	LC	03/2018



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.

HORIZONTAL DATUM IS NAD83 NEW JERSEY
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KEY PLAN

PROJECT NUMBER

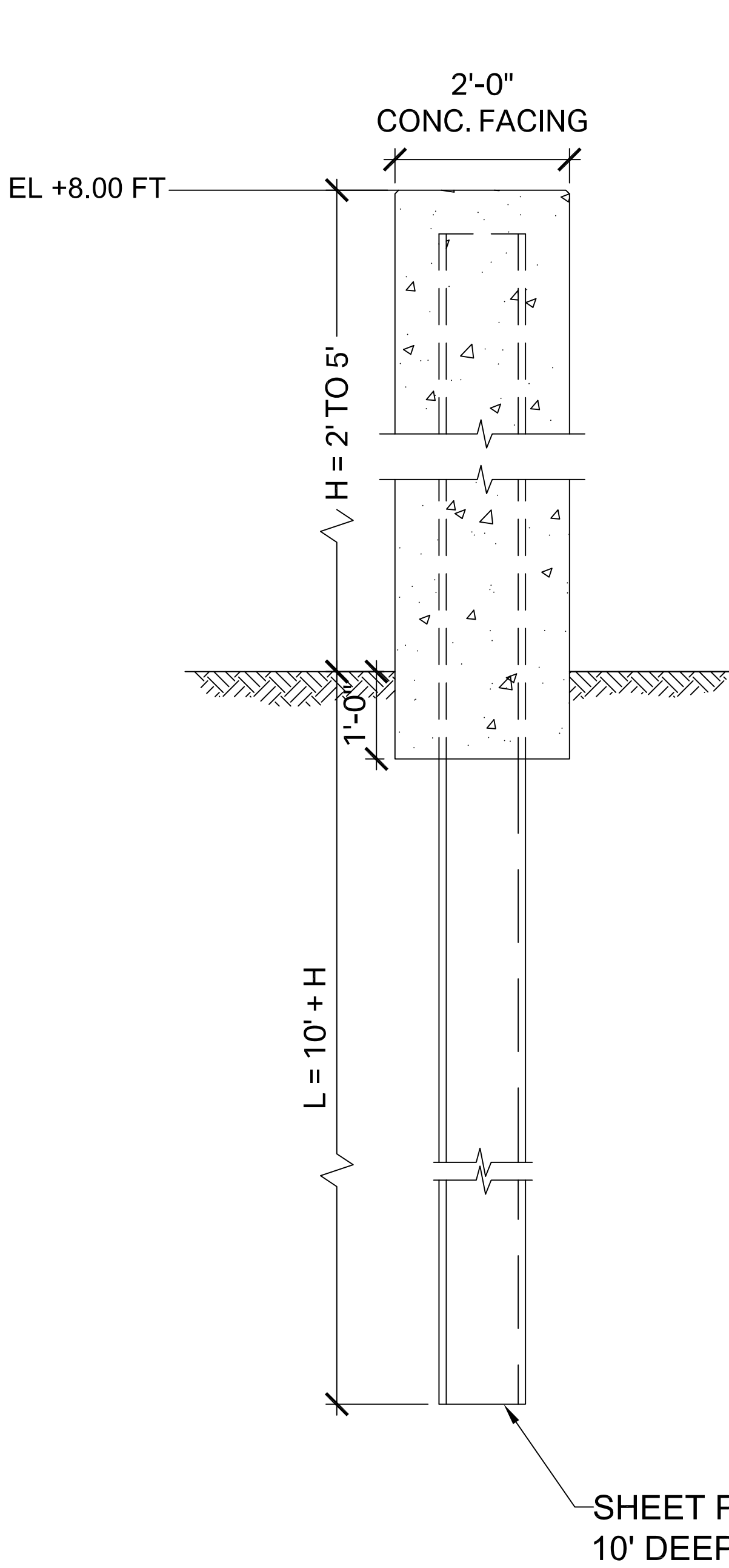
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SHEET TITLE

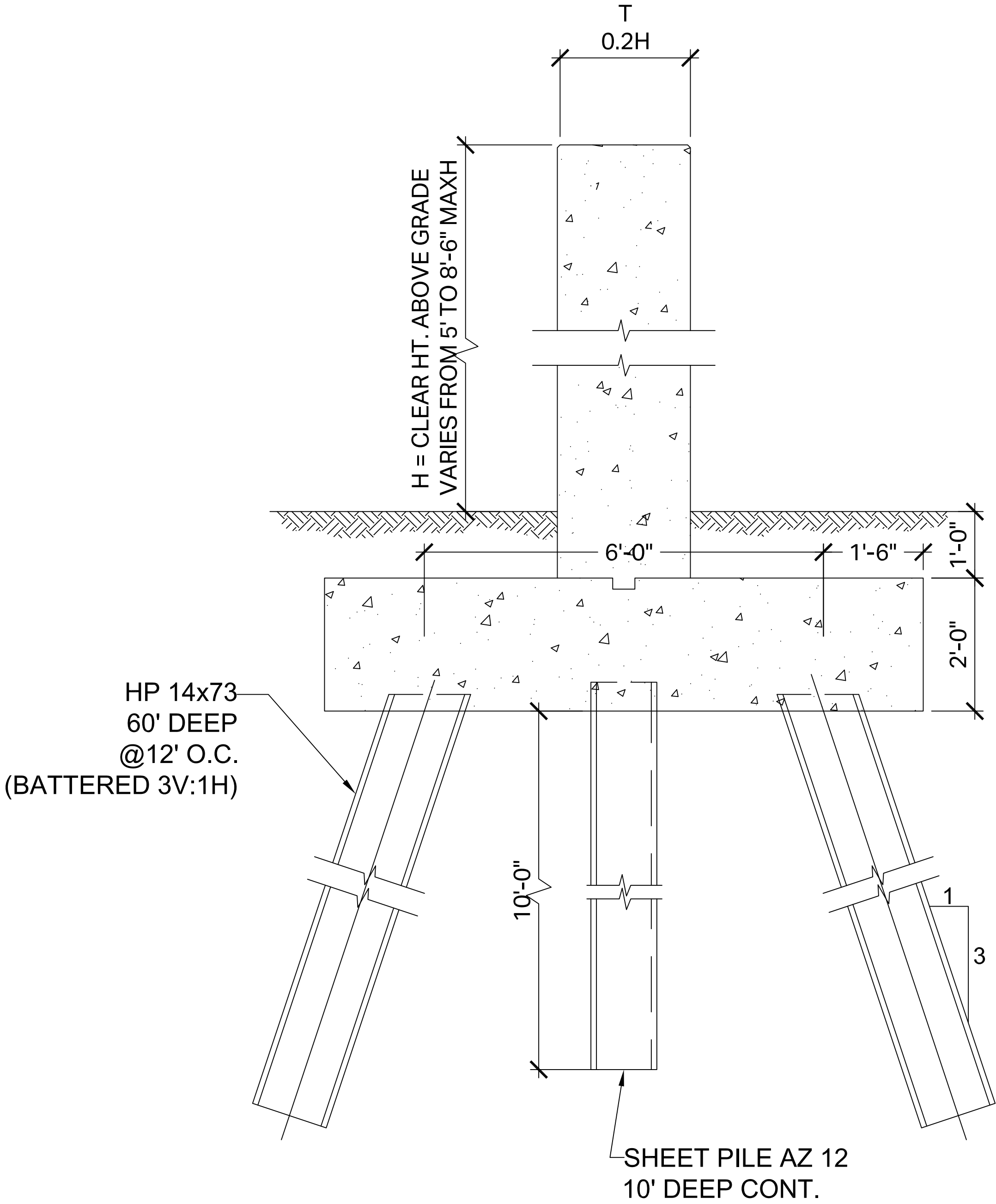
TYPICAL STRUCTURAL SECTION-
CONCRETE FLOOD WALL (T-WALL)-
HEIGHT = 8' TO 10'

SHEET NUMBER

S-403



2 SINGLE SHEET PILE WALL
Scale: 3/4" = 1'-0"



1 DEEP FOUNDATION T WALL SECTION
Scale: 3/4" = 1'-0"

PROJECT

REBUILD BY DESIGN:
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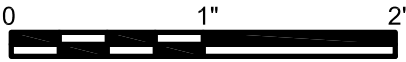
CONSULTANT

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DESIGNED BY	MS	02/2017
DRAWN BY	YK	03/2018
CHECKED BY	AE	03/2018



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HORIZONTAL DATUM IS NAD83 NEW JERSEY
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PROJECT NUMBER

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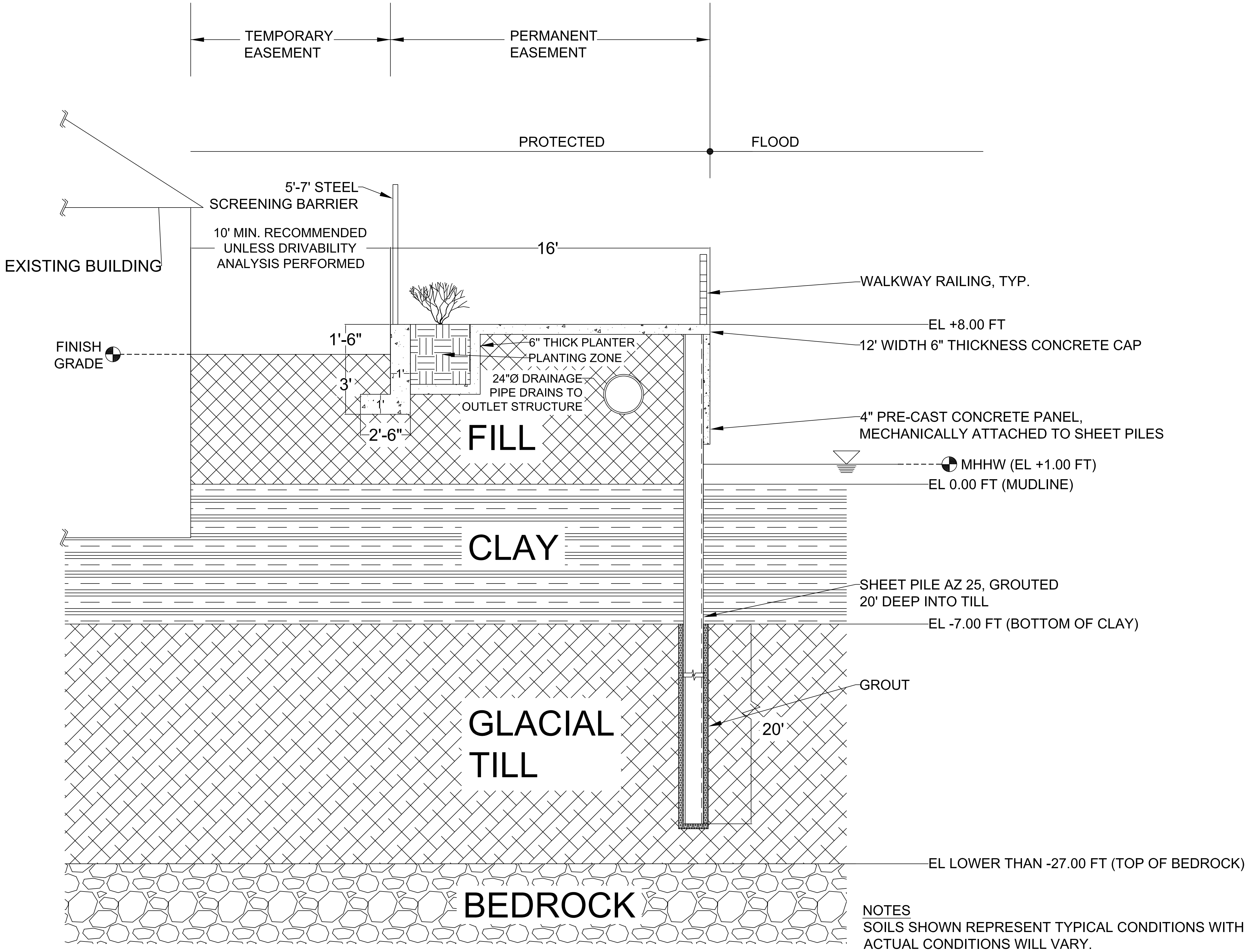
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DEEP FOUNDATION T WALL
AND SINGLE SHEET PILE WALL

SHEET NUMBER

S-404

S-405

ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____
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NOTES
SOILS SHOWN REPRESENT TYPICAL CONDITIONS WITHIN THE PROJECT AREA.
ACTUAL CONDITIONS WILL VARY.

1 CANTILEVER SHEET PILE WALKWAY SECTION BEDROCK LOWER THAN -27'
Scale: 3/8" = 1'-0"



PROJECT

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DESIGNED BY	AE/LC	10/2017
DRAWN BY	YK	03/2018
CHECKED BY	AE/MD	03/2018

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.

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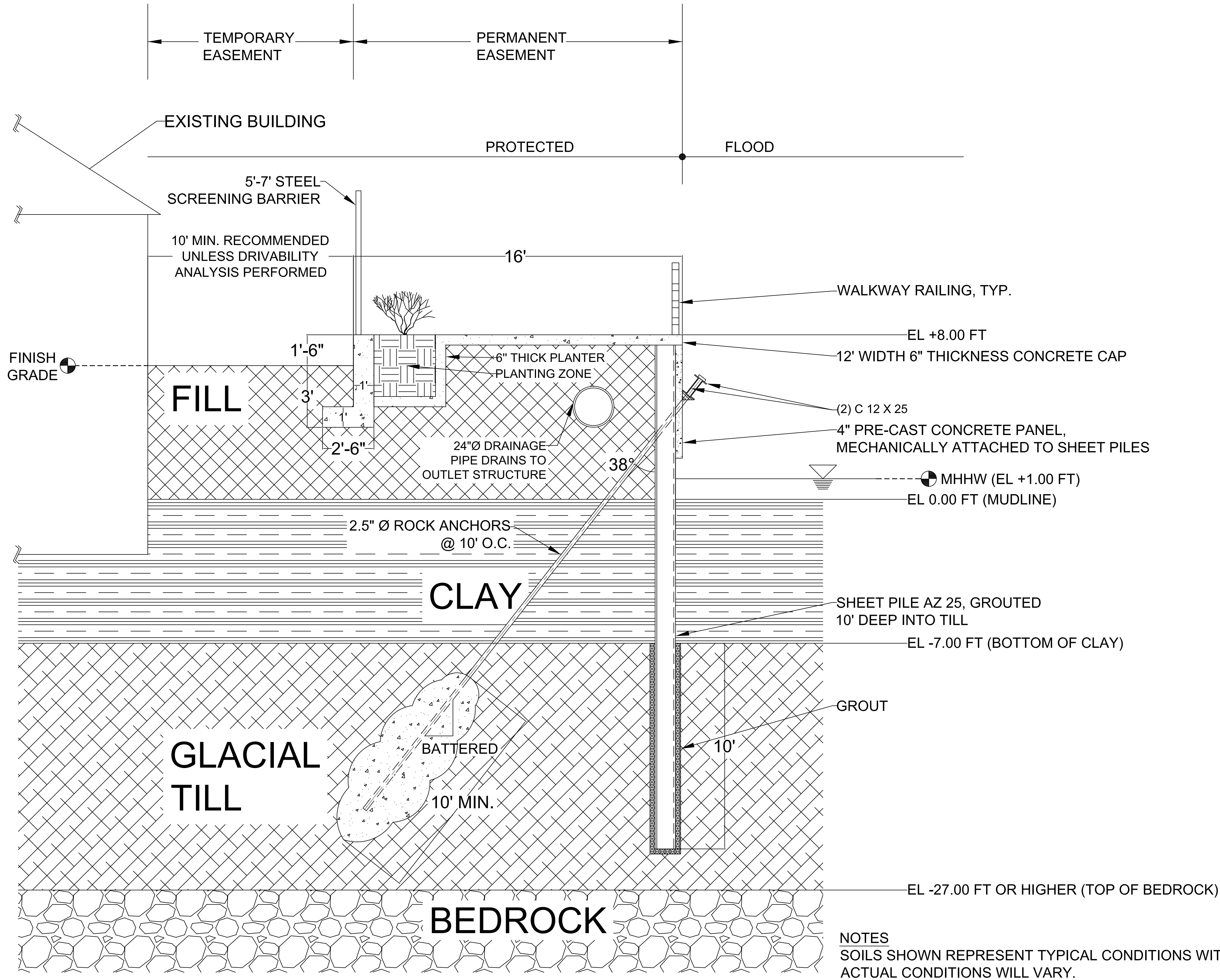
SHEET TITLE

TYPICAL STRUCTURAL SECTION-
CANTILEVER SHEET PILE WALKWAY
BEDROCK LOWER THAN -27'

SHEET NUMBER

S-406

ANSI D 22" x 34" Approved: _____ Designer: _____ Project Management Initials: _____
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NOTES
SOILS SHOWN REPRESENT TYPICAL CONDITIONS WITHIN THE PROJECT AREA.
ACTUAL CONDITIONS WILL VARY.

AECOM

PROJECT

REBUILD BY DESIGN:
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DESIGNED BY	AE/LC	10/2017
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CHECKED BY	AE/MD	03/2018

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.
HORIZONTAL DATUM IS NAD83 NEW JERSEY
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PROJECT NUMBER

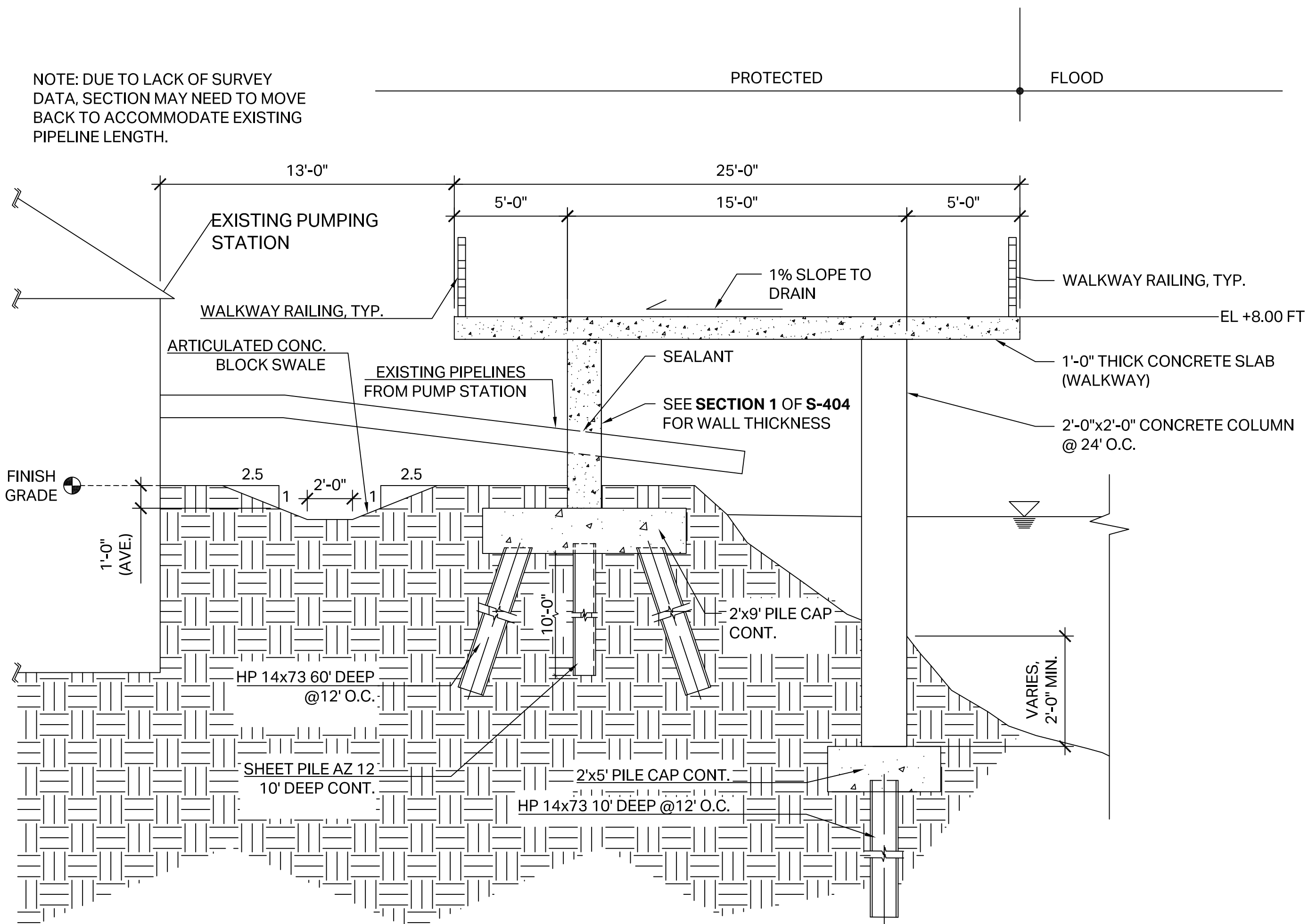
P1131-00 TC-001

SHEET TITLE

TYPICAL STRUCTURAL SECTION-
CANTILEVER SHEET PILE WALKWAY
BEDROCK -27' OR HIGHER

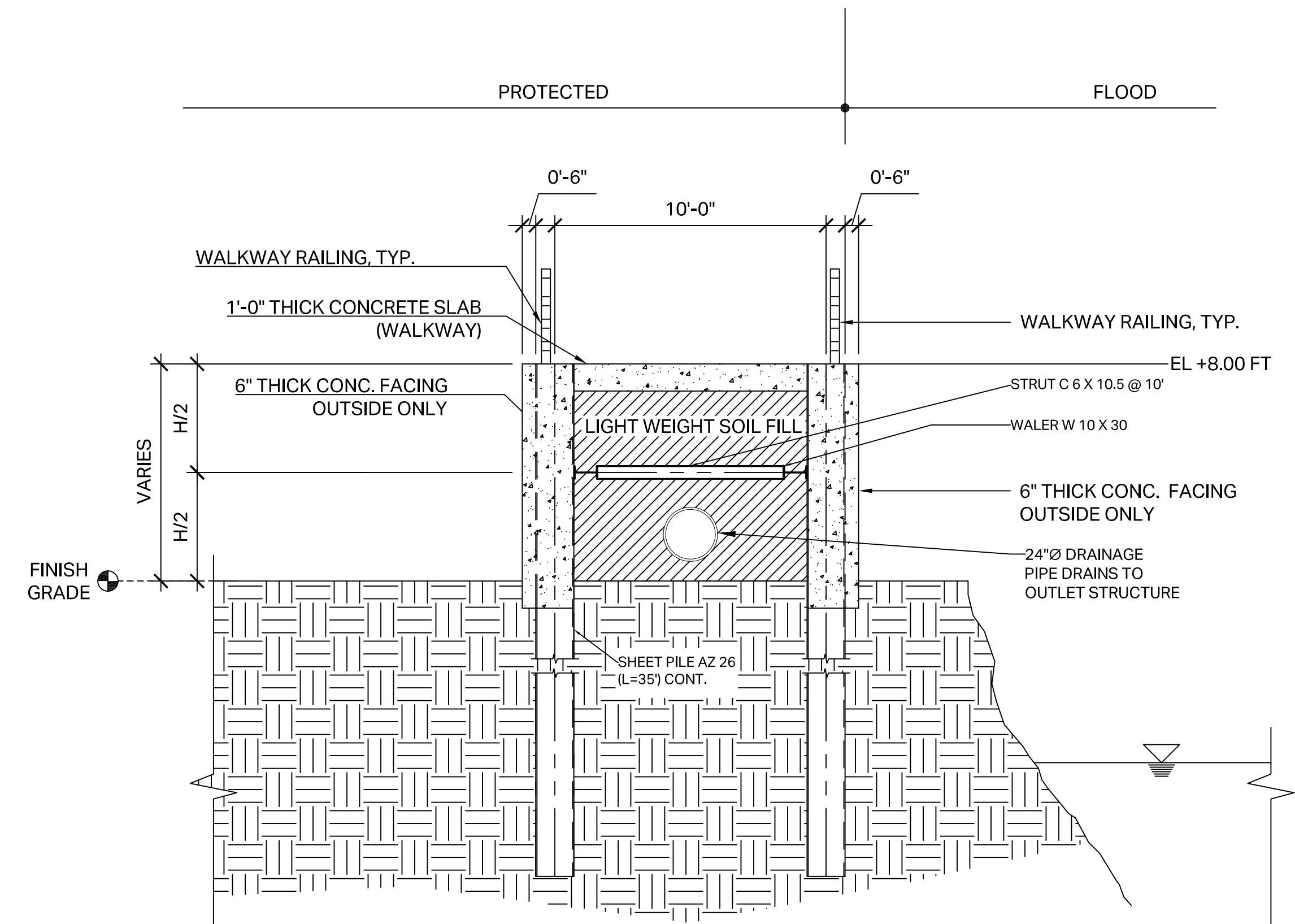
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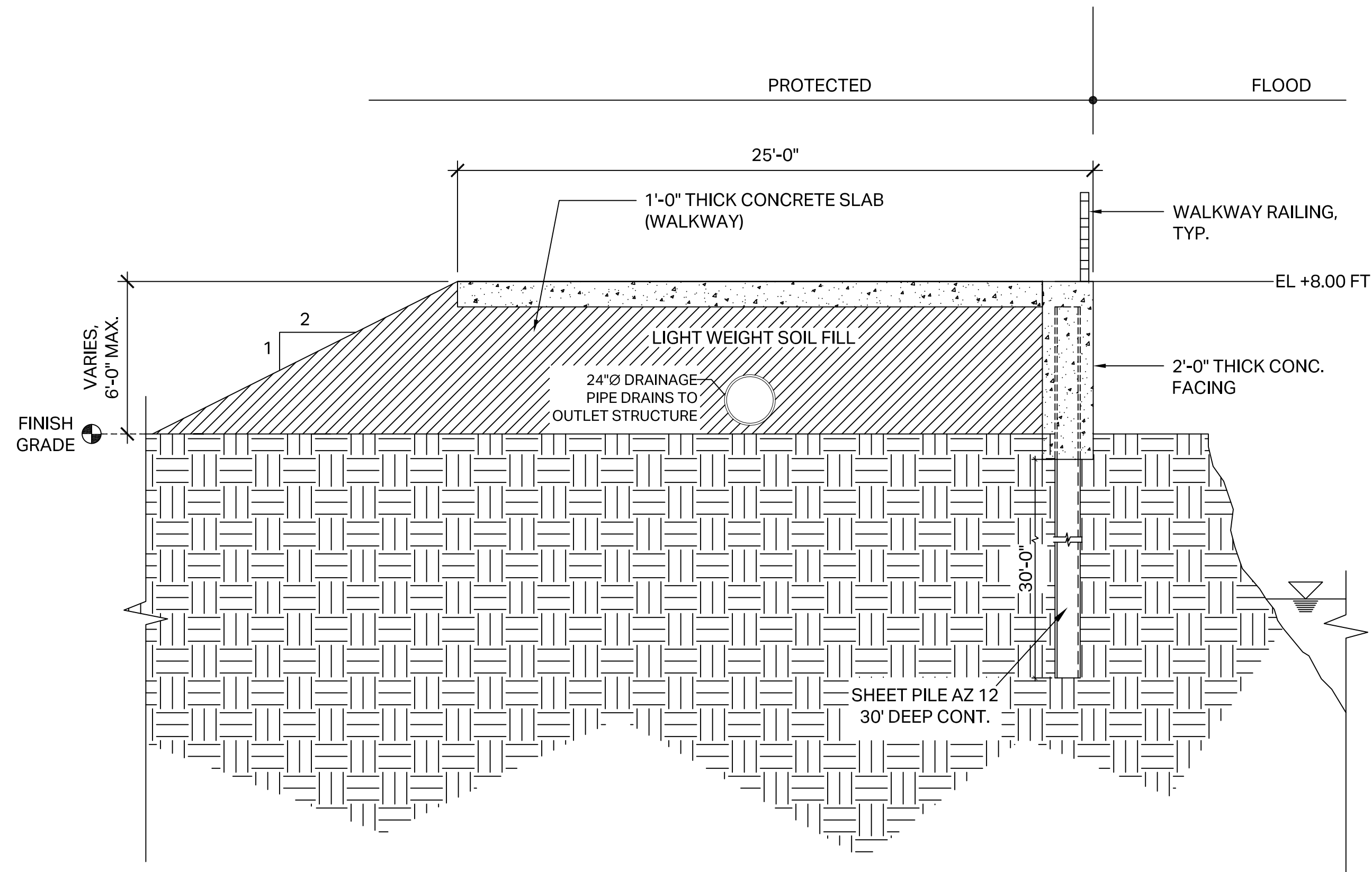
3 CANTILEVER WALKWAY 25' WIDTH PUMP STATION AT CENTRAL HACKENSACK ALIGNMENT

Scale: 1/4" = 1'-0"



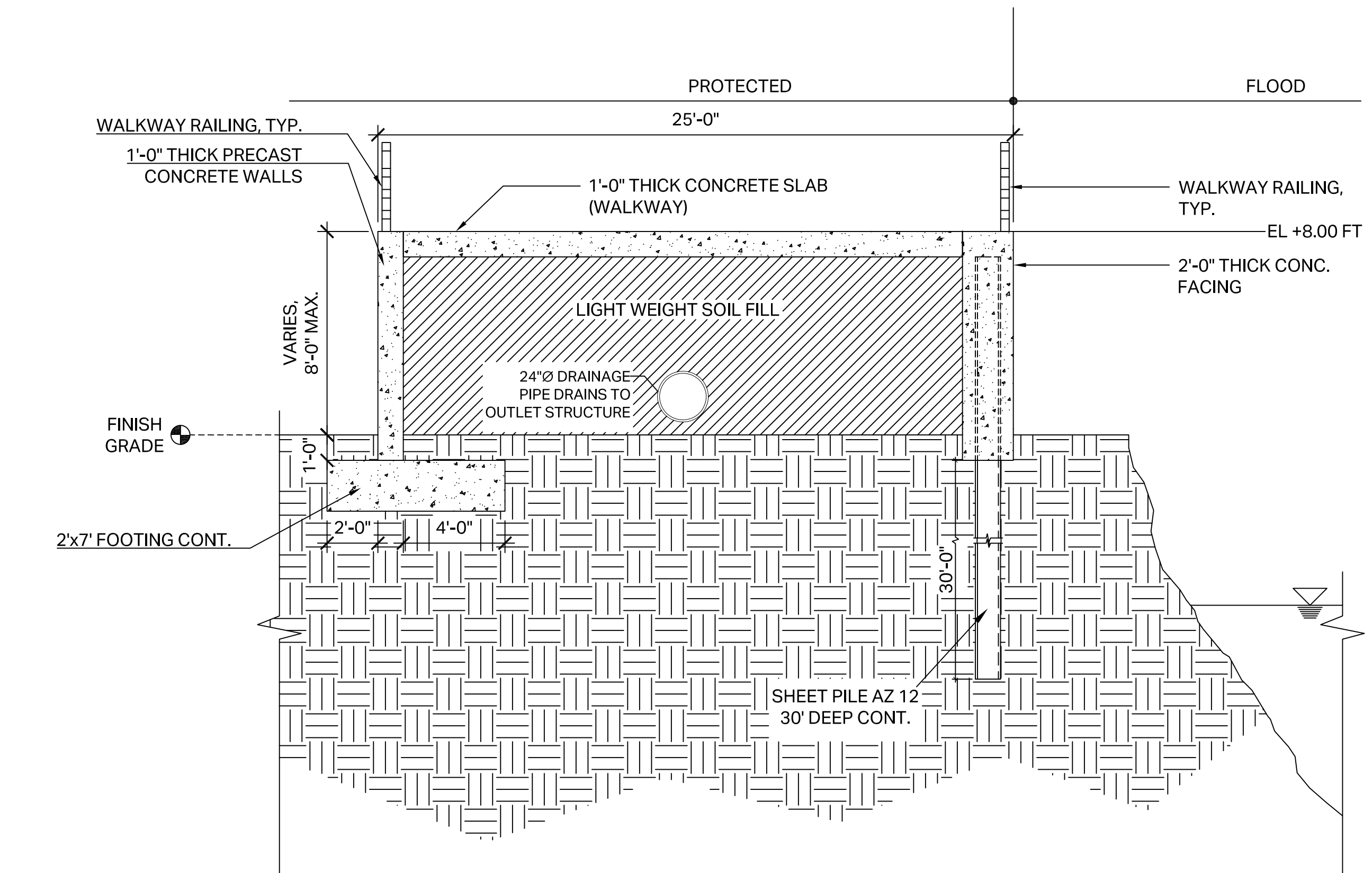
4 CANTILEVER WALKWAY 10' WIDTH 8'-6" MAX HEIGHT AT CENTRAL HACKENSACK ALIGNMENT

Scale: 1/4" = 1'-0"



2 CANTILEVER WALKWAY 25' WIDTH 6' MAX HEIGHT AT CENTRAL HACKENSACK ALIGNMENT OPTION 2

Scale: 1/4" = 1'-0"



1 CANTILEVER WALKWAY 25' WIDTH 8' MAX HEIGHT AT CENTRAL HACKENSACK ALIGNMENT OPTION 1

Scale: 1/4" = 1'-0"

PROJECT**REBUILD BY DESIGN:
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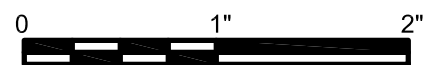
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DESIGNED BY	MS/YK	10/2017
DRAWN BY	YK	03/2018
CHECKED BY	WY/AE	03/2018



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE EACH. ADJUST SCALE ACCORDINGLY.

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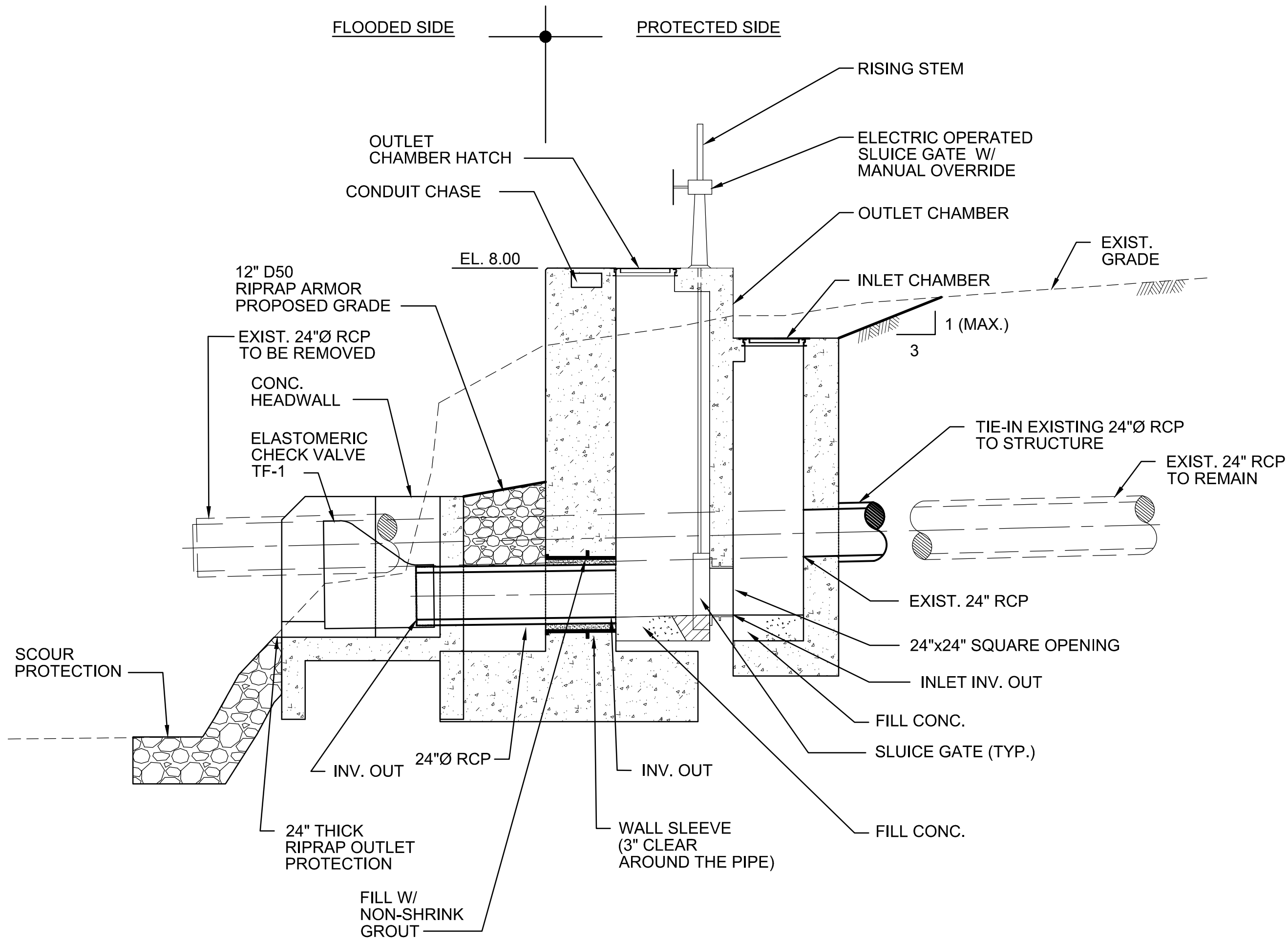
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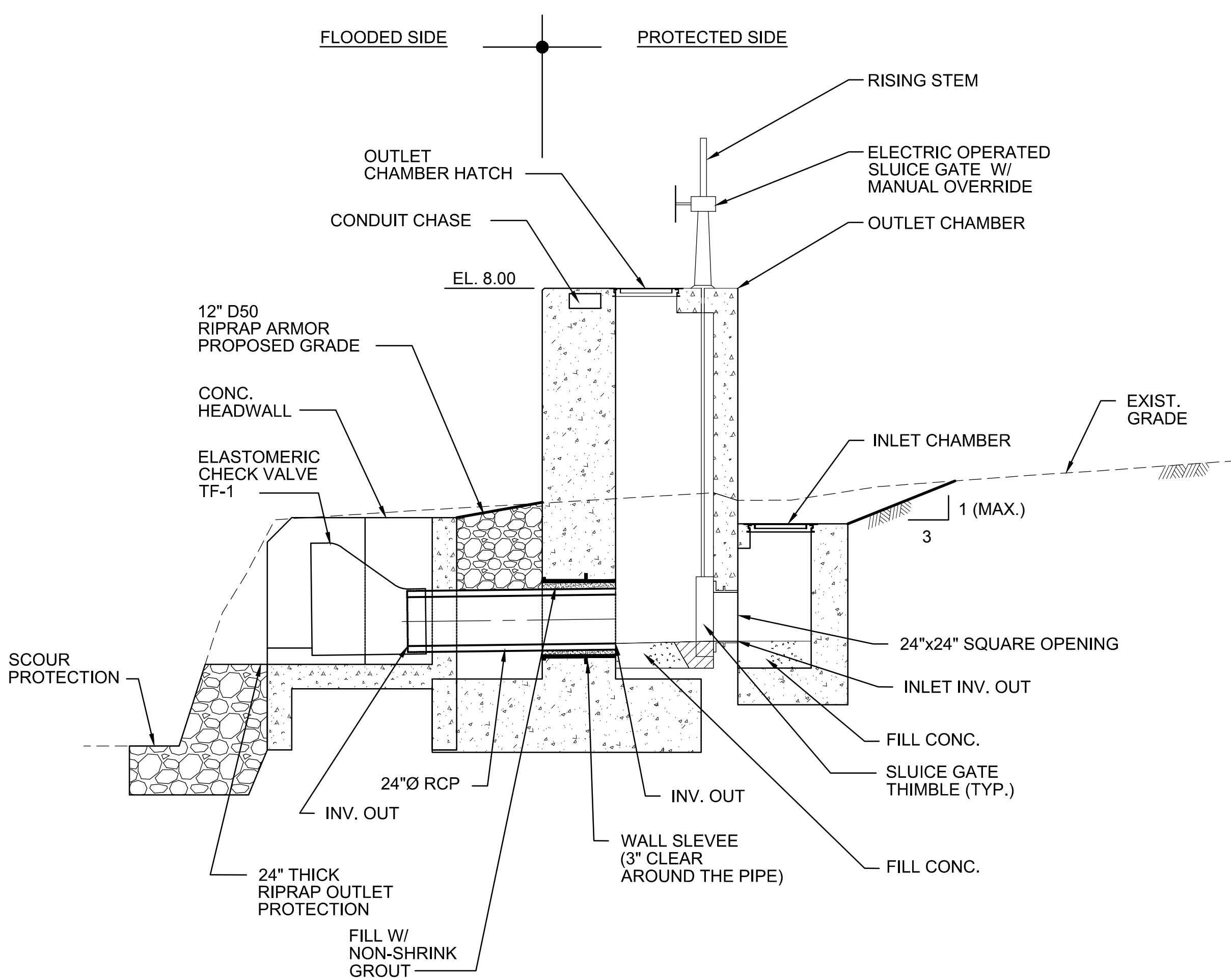
P1131-00 TC-001

SHEET TITLETYPICAL STRUCTURAL SECTION-
CANTILEVER WALKWAY**SHEET NUMBER****S-408**

S-409



1 TYPICAL PROPOSED DRAINAGE OUTLET WITH EXISTING PIPE CONNECTION
Scale: N.T.S.



2 TYPICAL PROPOSED DRAINAGE OUTLET
Scale: N.T.S.

PROJECT

REBUILD BY DESIGN:
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DESIGNED BY	BU	01/11/11
DRAWN BY	OM	01/11/11
CHECKED BY	BU	01/11/11

0 1" 2"
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SHEET TITLE

TYPICAL PROTECTION DETAILS
DRAINAGE OUTLET

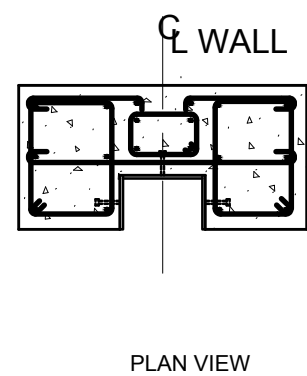
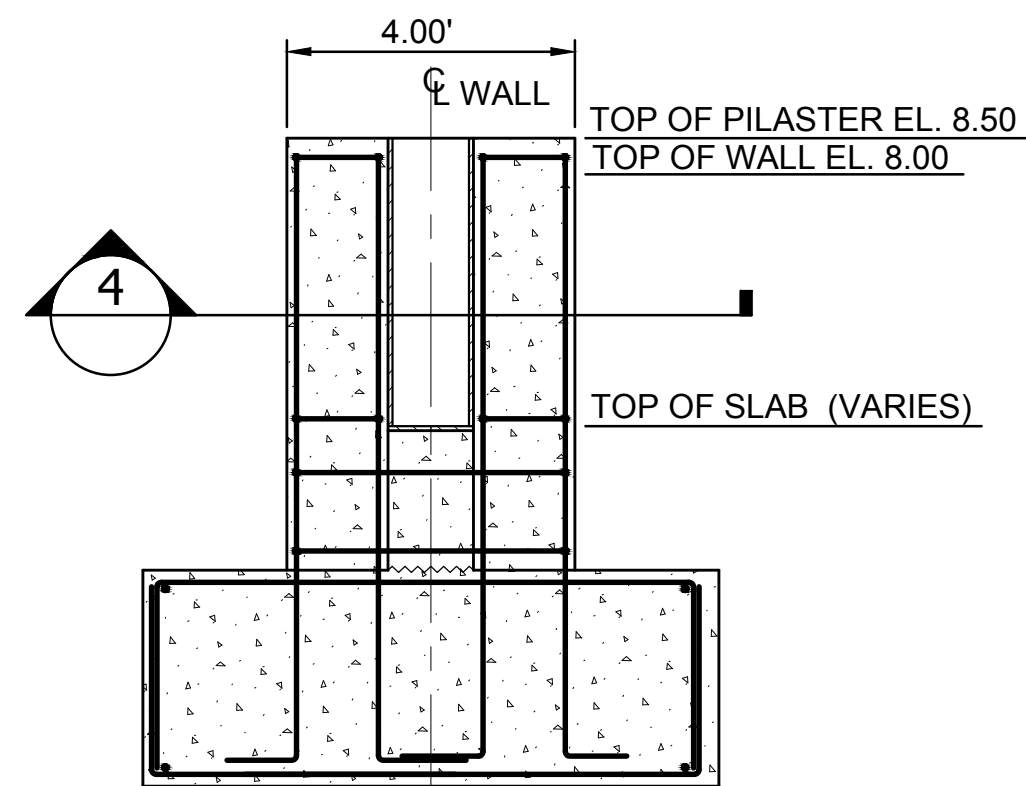
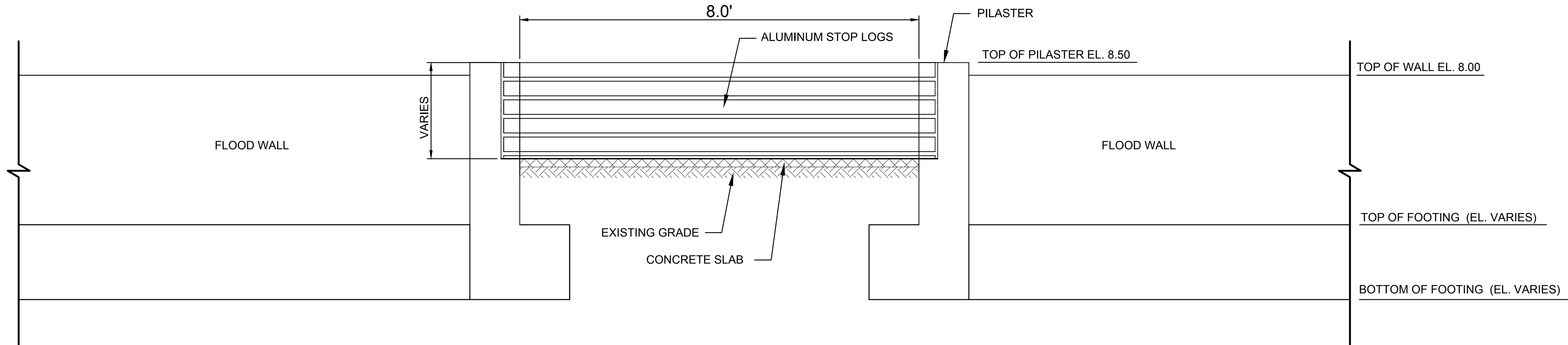
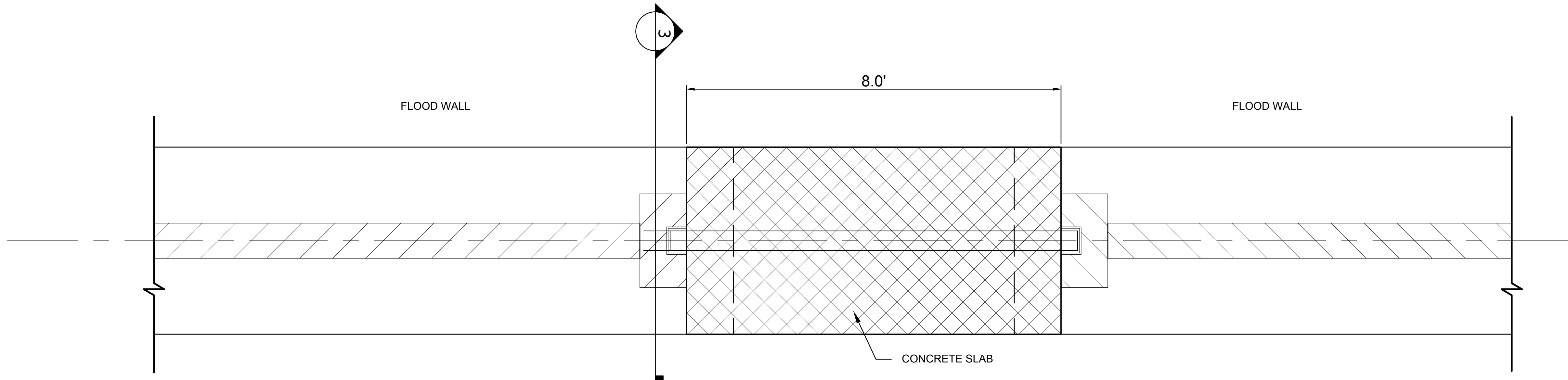
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CH-401

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____
ANSI D 22" x 34"

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DESIGNED BY	BU	□□/□□/□□
DRAWN BY	OM	□□/□□/□□
CHECKED BY	BU	□□/□□/□□

0 1" 2"
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE
EACH. ADJUST SCALE ACCORDINGLY.

HORIZONTAL DATUM IS NAD83 NEW JERSEY
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VERTICAL DATUM IS NAVD 88

REGISTRATION

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ISSUE/REVISION

I	APR. 23, 2018	Draft Feasibility Report
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KEY PLAN

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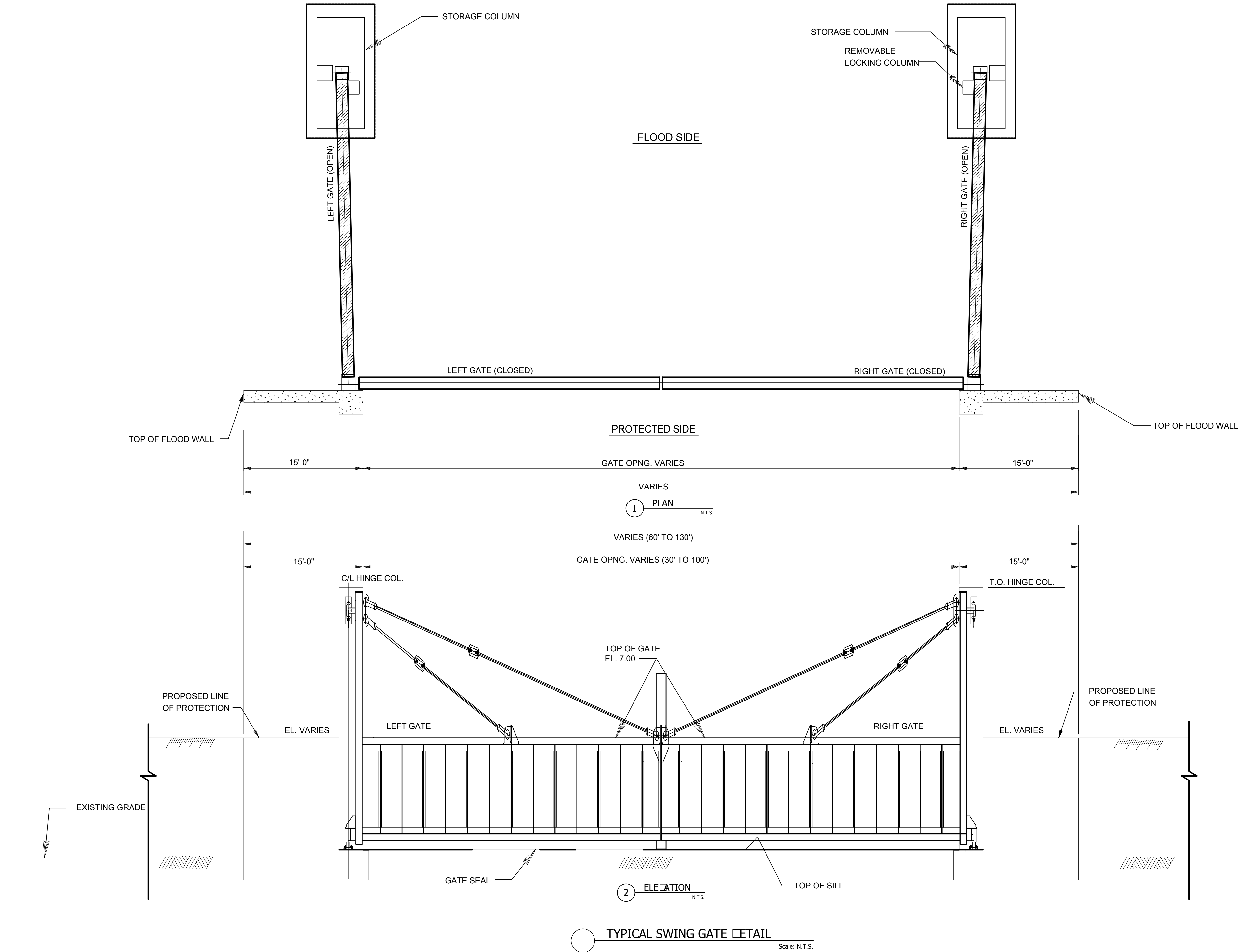
P1131-00 TC-001

SHEET TITLE

TYPICAL PROTECTION DETAILS
STOP LOG GATE

SHEET NUMBER

CH-402



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DESIGNED BY	BU	01/11/11
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CHECKED BY	BU	01/11/11

0 1" 2"

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SHEET TITLE

TYPICAL PROTECTION DETAILS
SWING GATE

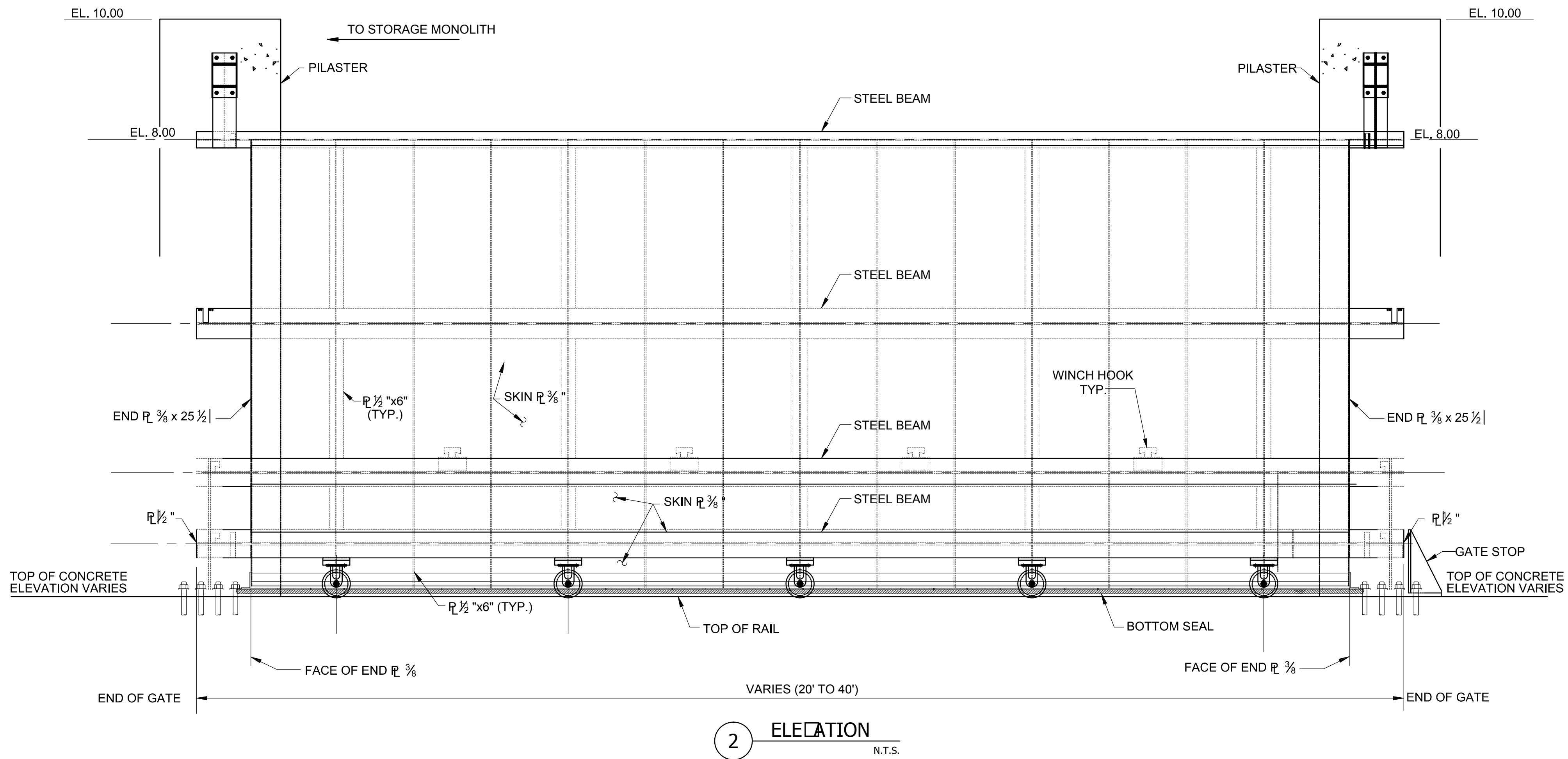
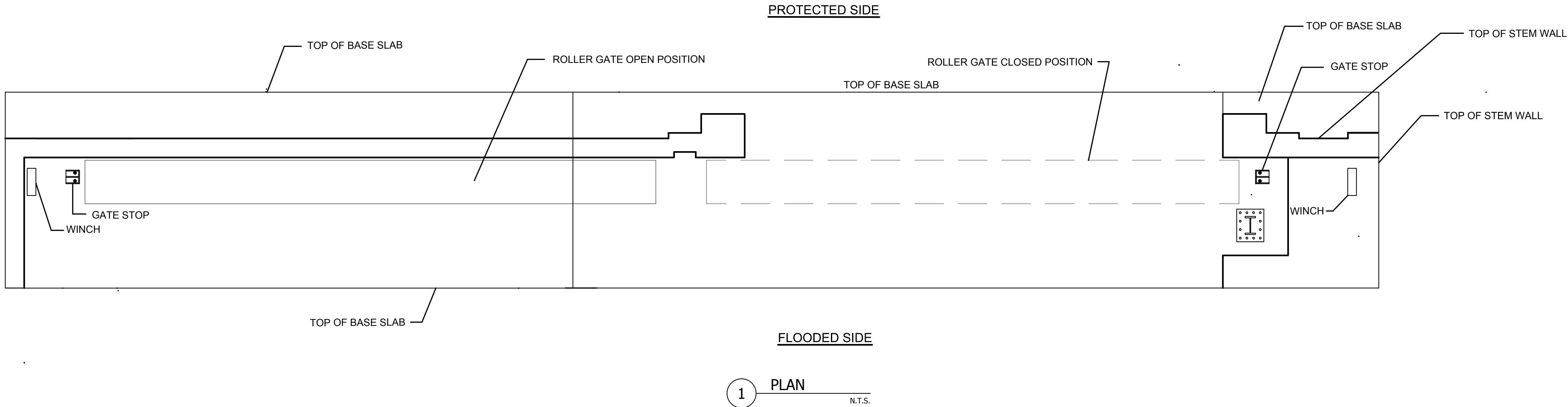
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CH-403

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

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TYPICAL ROLLER GATE DETAIL
Scale: N.T.S.



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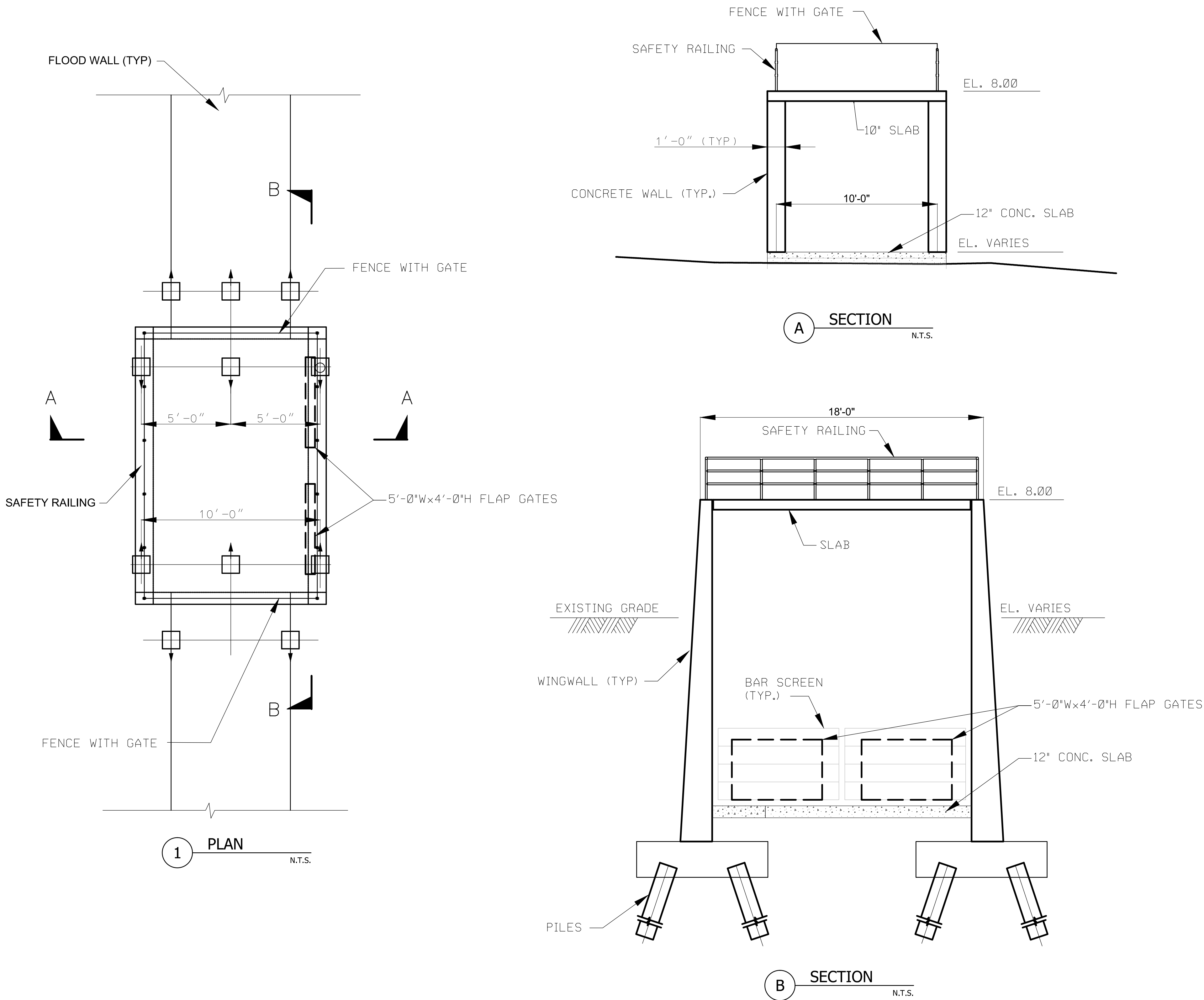
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P1131-00 TC-001
SHEET TITLE
TYPICAL PROTECTION DETAILS
ROLLER GATE

SHEET NUMBER
CH-404



TIDE/ FLAP GATE STRUCTURE DETAIL
Scale: N.T.S.

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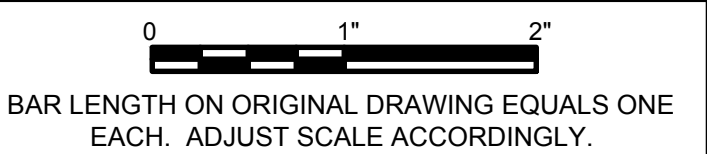
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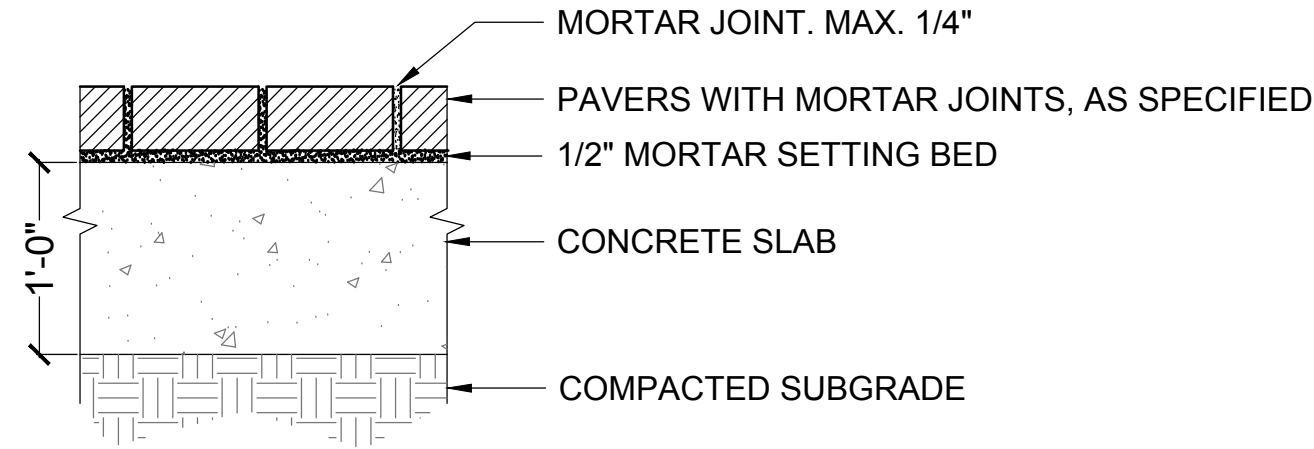
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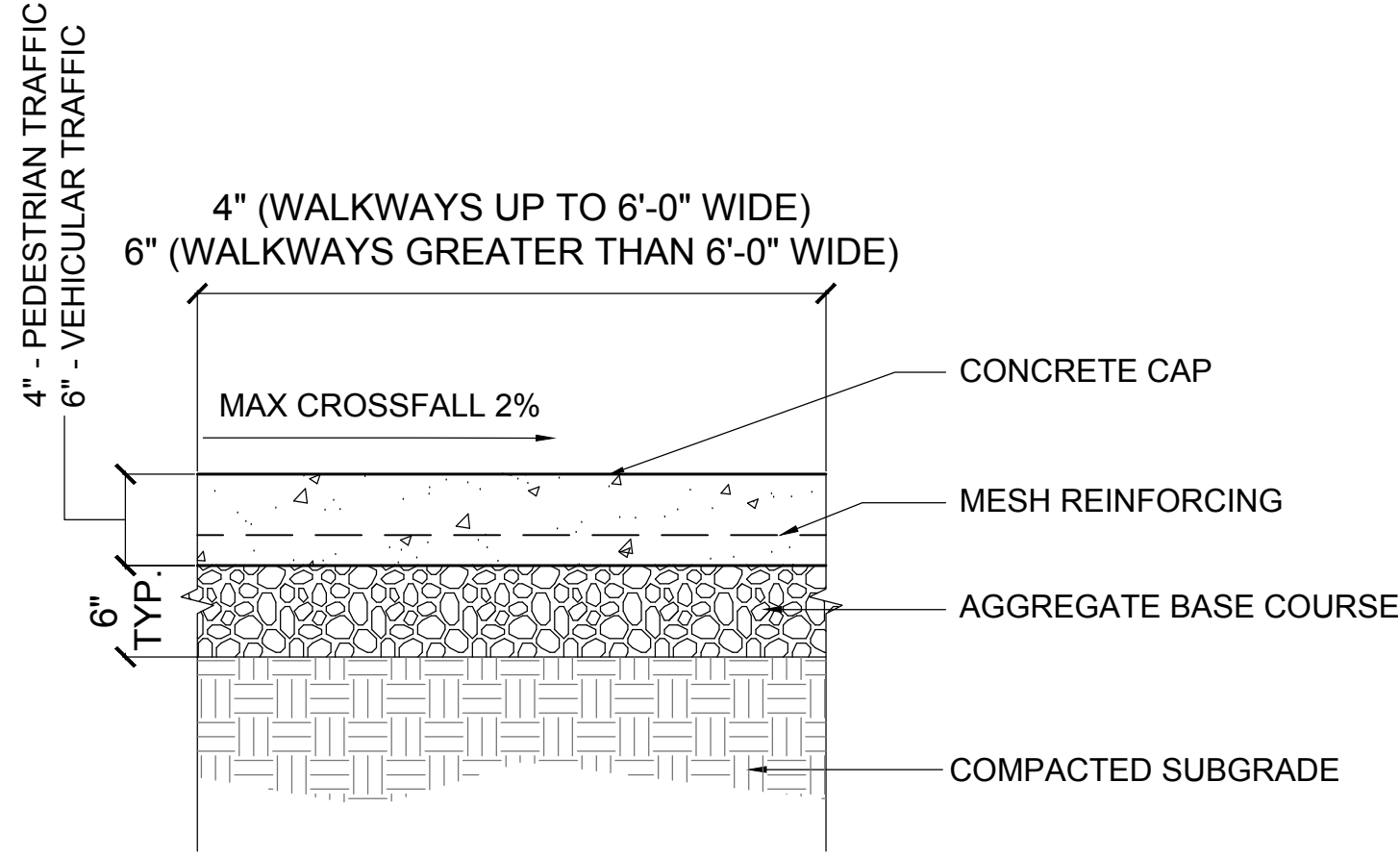
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TIDE GATE STRUCTURE

SHEET NUMBER

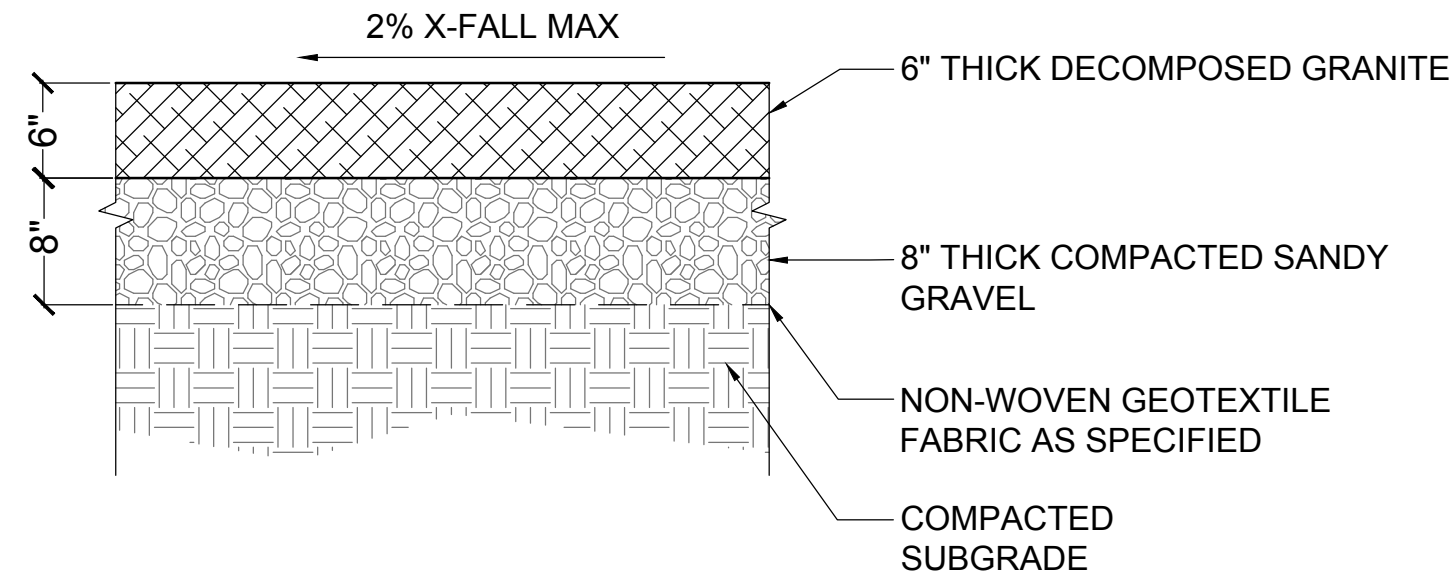
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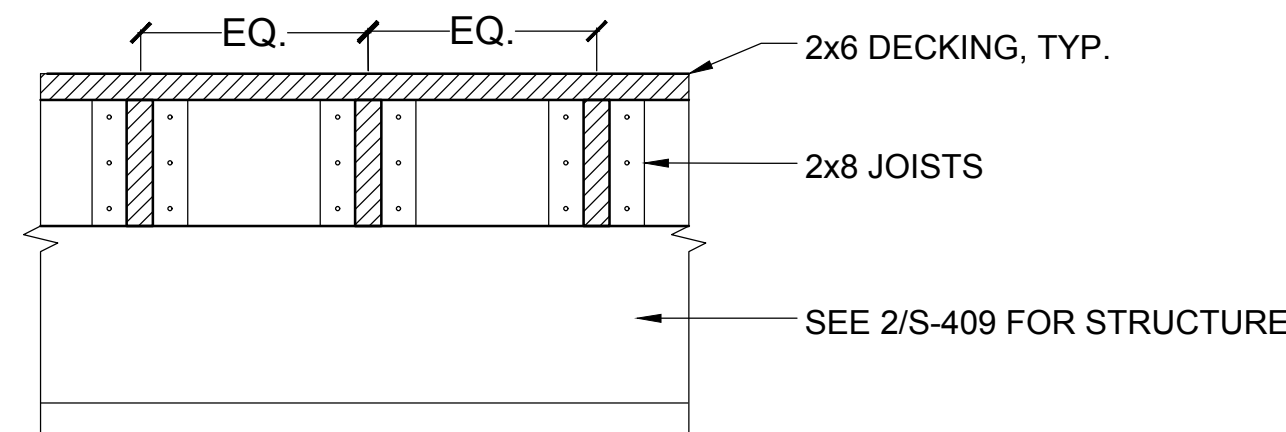
4 PAVERS AT CANTILEVER WALKWAY
Scale: 1/4"=1'-0"



3 CONCRETE PAVEMENT
Scale: 1/4"=1'-0"



2 PERMEABLE PAVEMENT
Scale: 1/4"=1'-0"



1 WOODSLAT DECKING ON CONCRETE FRAME
Scale: 1/4"=1'-0"

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CHECKED BY	LL/LM	07/07/00

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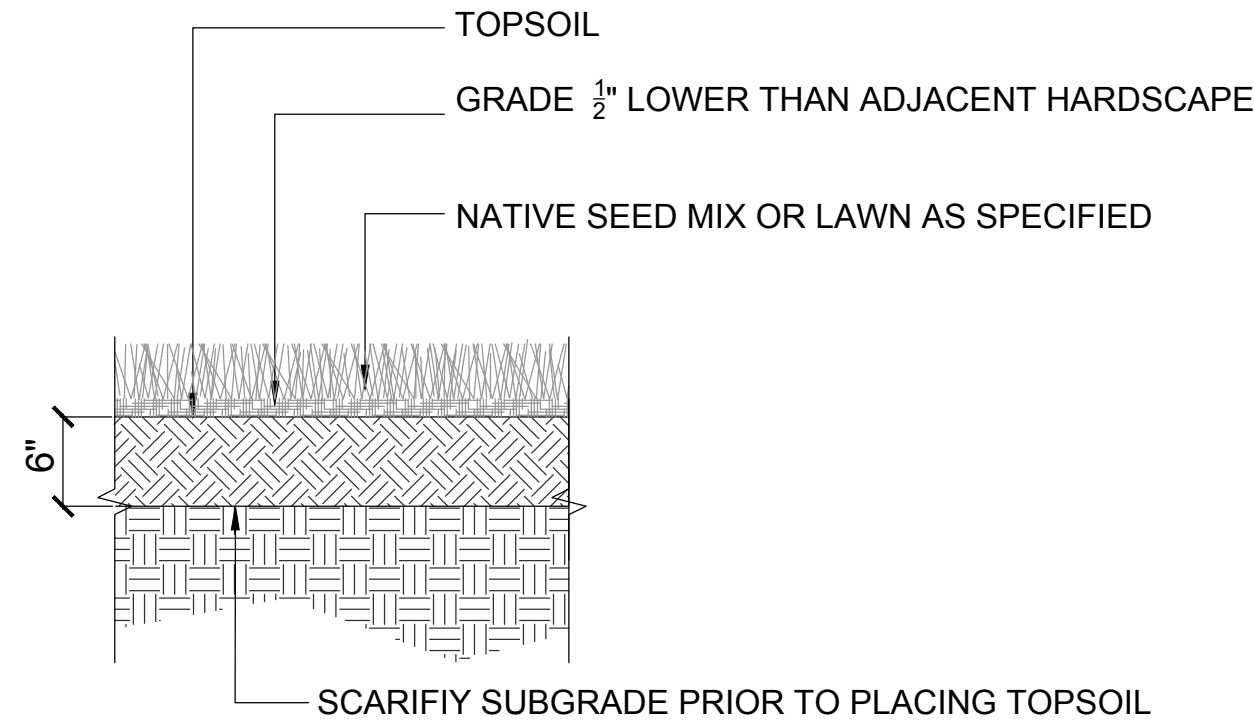
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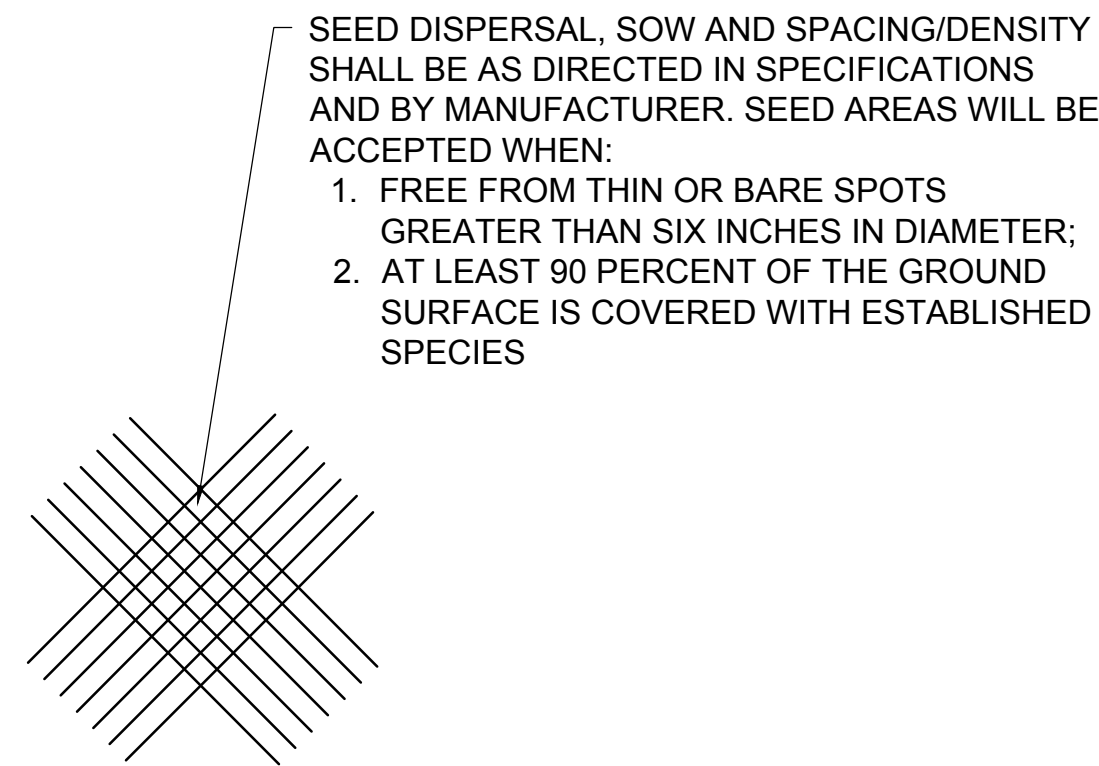
ALTERNATIVE 1
TYPICAL DETAILS
PAVEMENT

SHEET NUMBER

LH-401



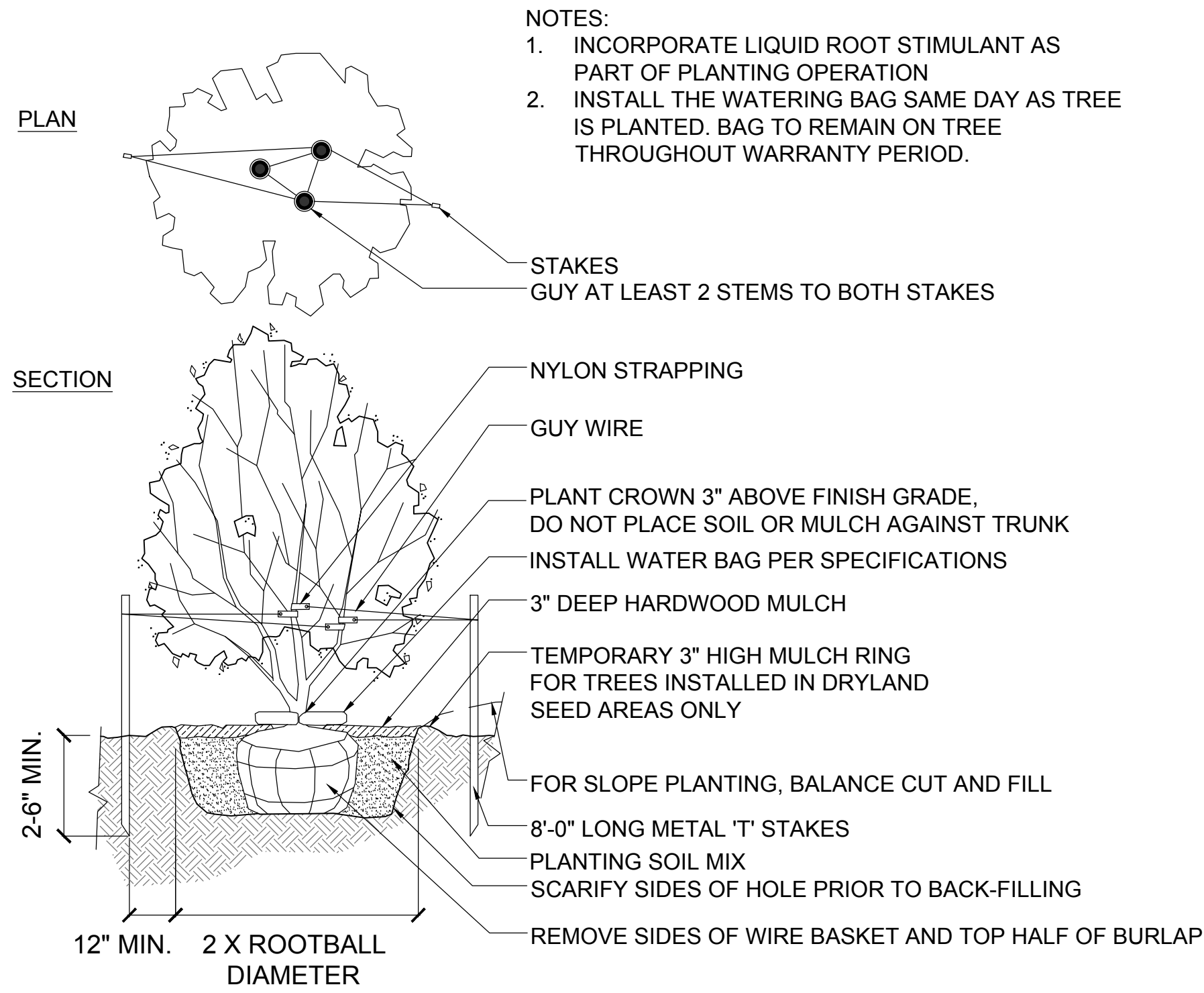
TURF- TYPICAL
NOT TO SCALE



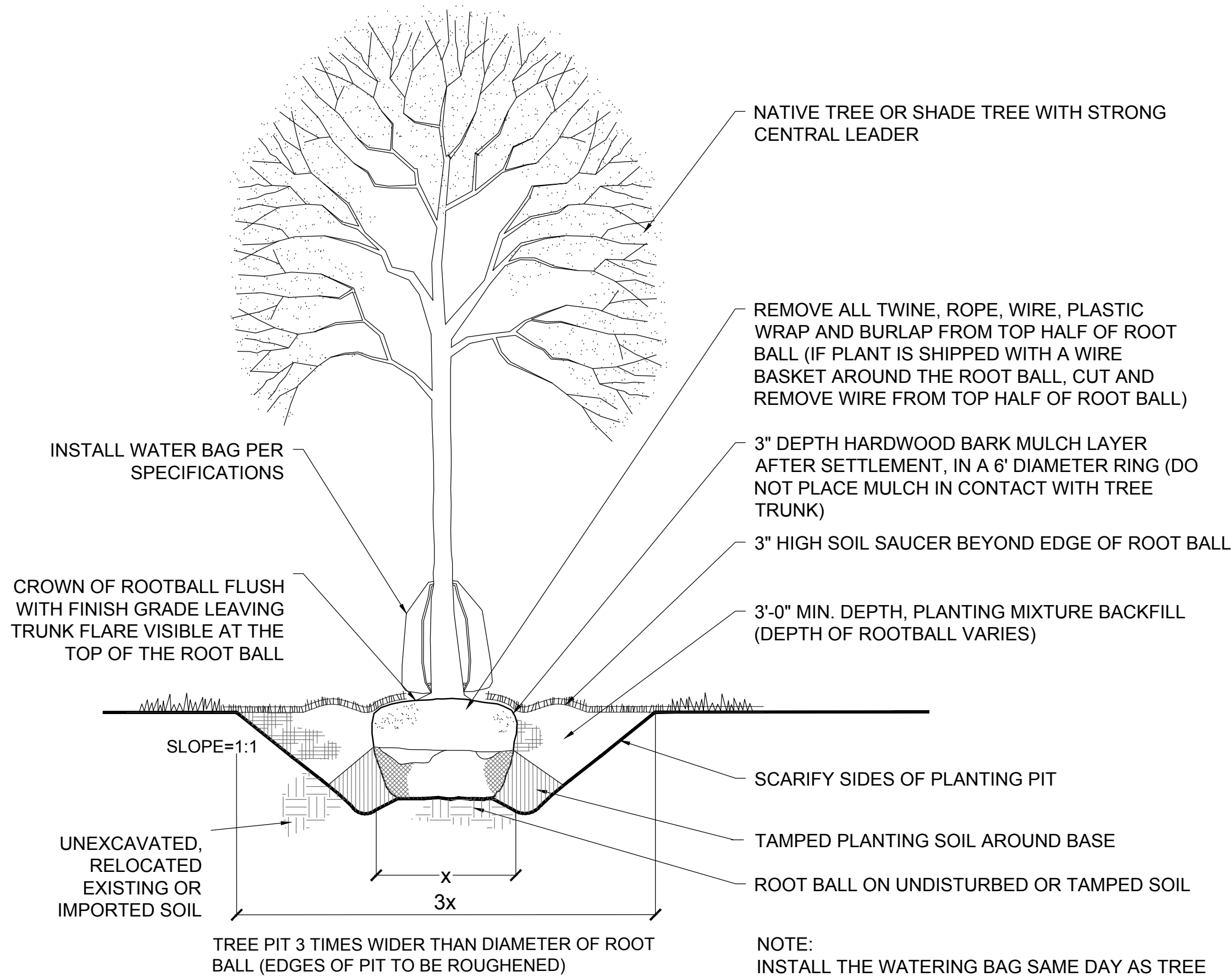
SEEDING- TYPICAL
NOT TO SCALE

GENERAL NOTES:

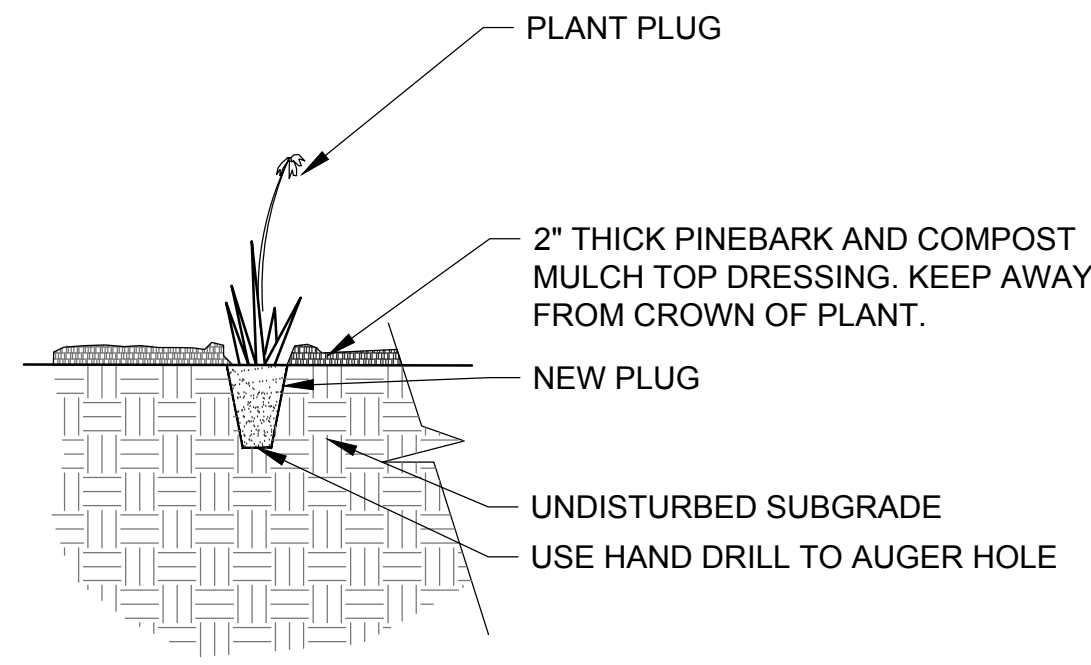
1. WETLAND DESIGN TO BE DEVELOPED WITH DETAILED LAYOUT DURING FINAL DESIGN.
2. SPACING AND LAYOUT OF TREES, SHRUBS, AND PLUGS TO BE DETERMINED IN NEXT PHASE OF DEVELOPMENT. TREE PLANTINGS ARE TYPICALLY WITHIN NATIVE AND DENSE TREE PLANTING LOCATIONS. ASSUME SHRUB PLANTING WITHIN 30% OF NATIVE PLANTING AREAS. ASSUME PLUGS IN 70 % OF NATIVE PLANTING AREAS. ASSUME TREES TO BE PLANTED WITHIN NATIVE PLANTING, TURF, AND DENSE TREE PLANTING WITH SPACING TO BE DETERMINED IN CONTRACT DOCUMENTS.
3. DRAINAGE SWALE DESIGN TO BE DEVELOPED WITH DETAILED LAYOUT DURING FINAL DESIGN.



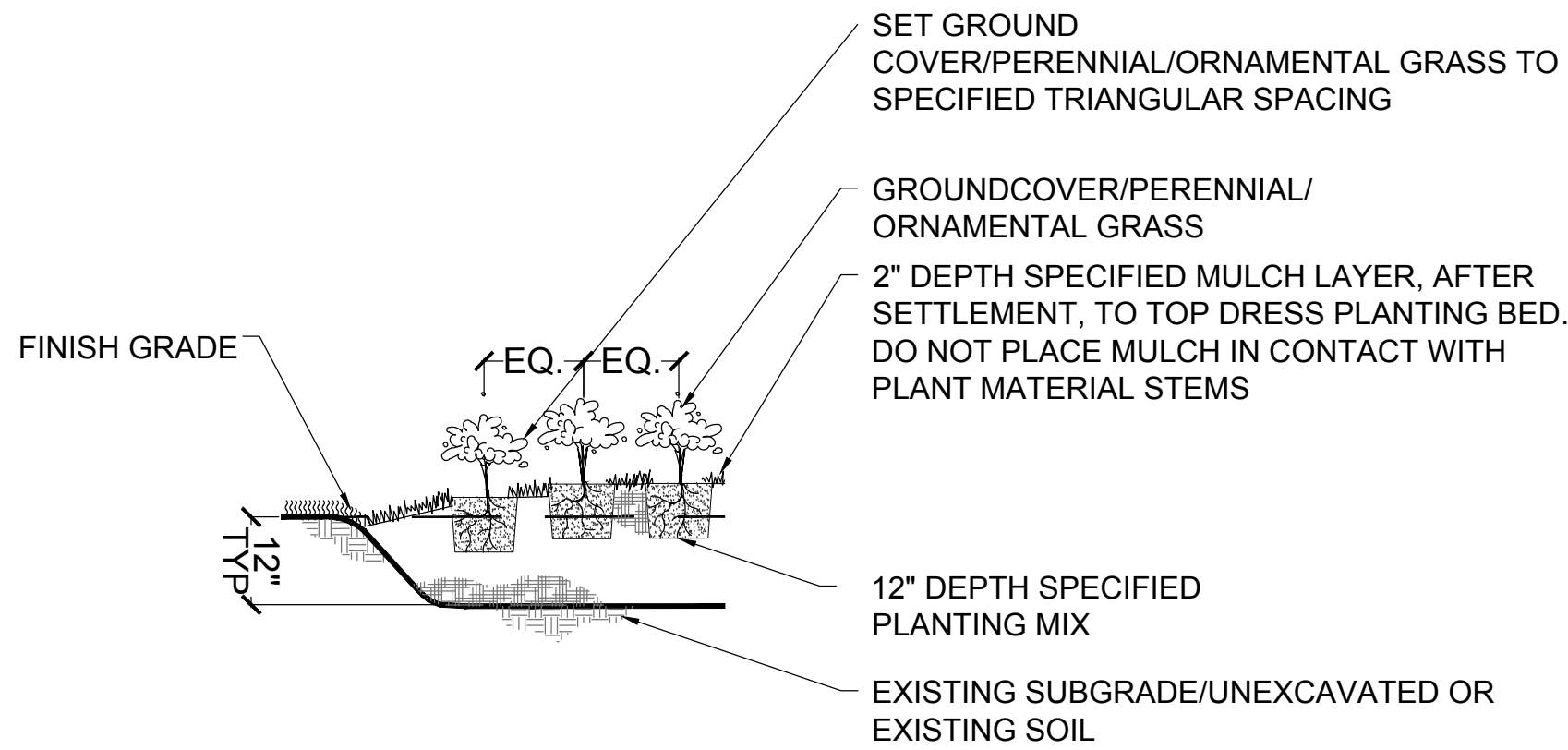
4 TREE PLANTING MULTISTEM- TYPICAL
NOT TO SCALE



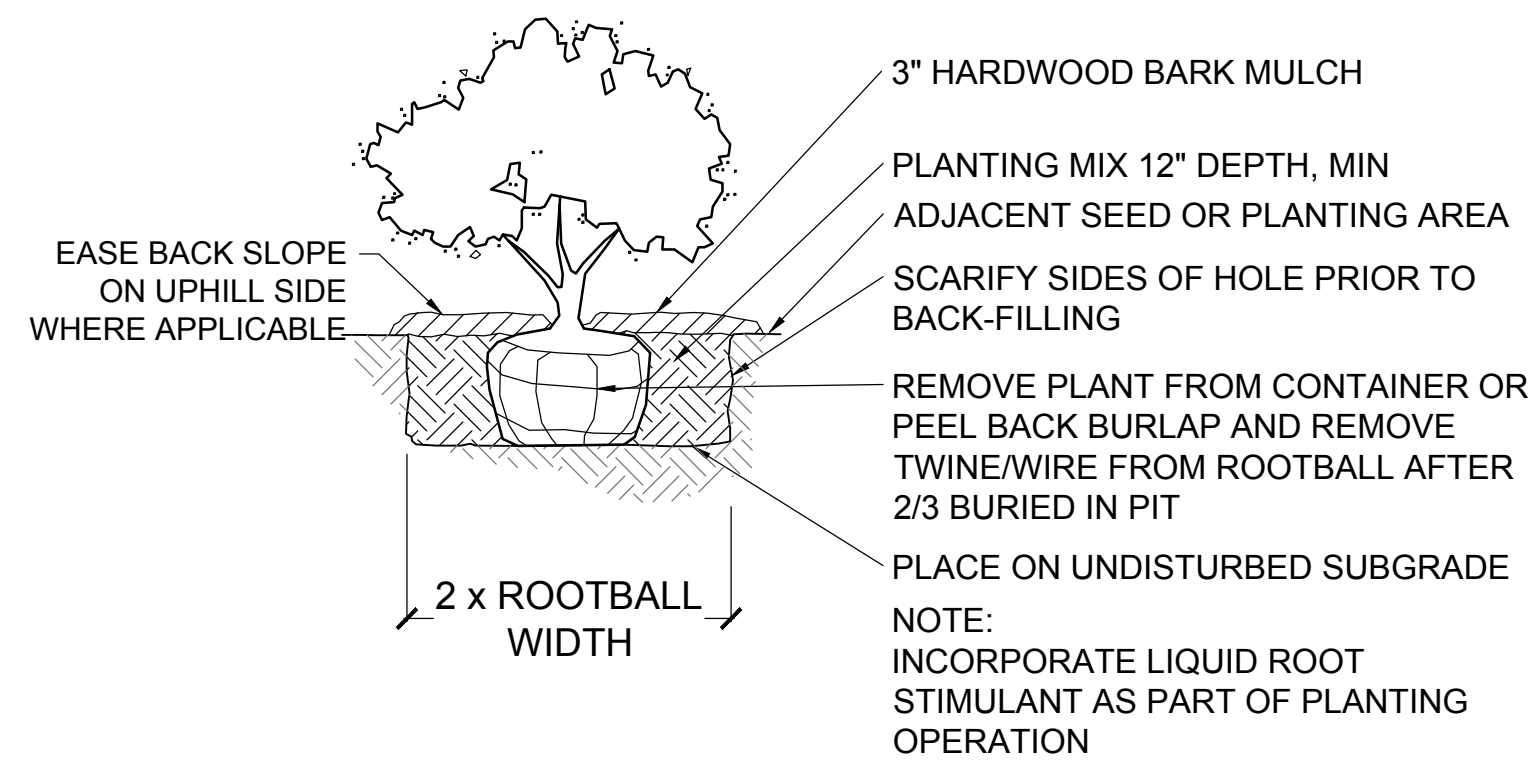
TREE PLANTING- TYPICAL
NOT TO SCALE



3 NATIVE VEGETATION PLUG- TYPICAL
NOT TO SCALE



2 NATIVE VEGETATION GROUND COVER/PERENNIAL/GRASS- TYPICAL
NOT TO SCALE



1 NATIVE VEGETATION SHRUB PLANTING- TYPICAL
NOT TO SCALE

PROJECT

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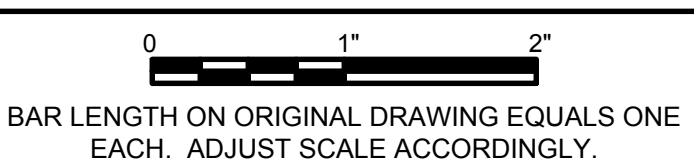
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CHECKED BY	LL/LM	07/07/00



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KEY PLAN

PROJECT NUMBER

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SHEET TITLE

ALTERNATIVE 1
TYPICAL DETAILS
PLANTING

SHEET NUMBER

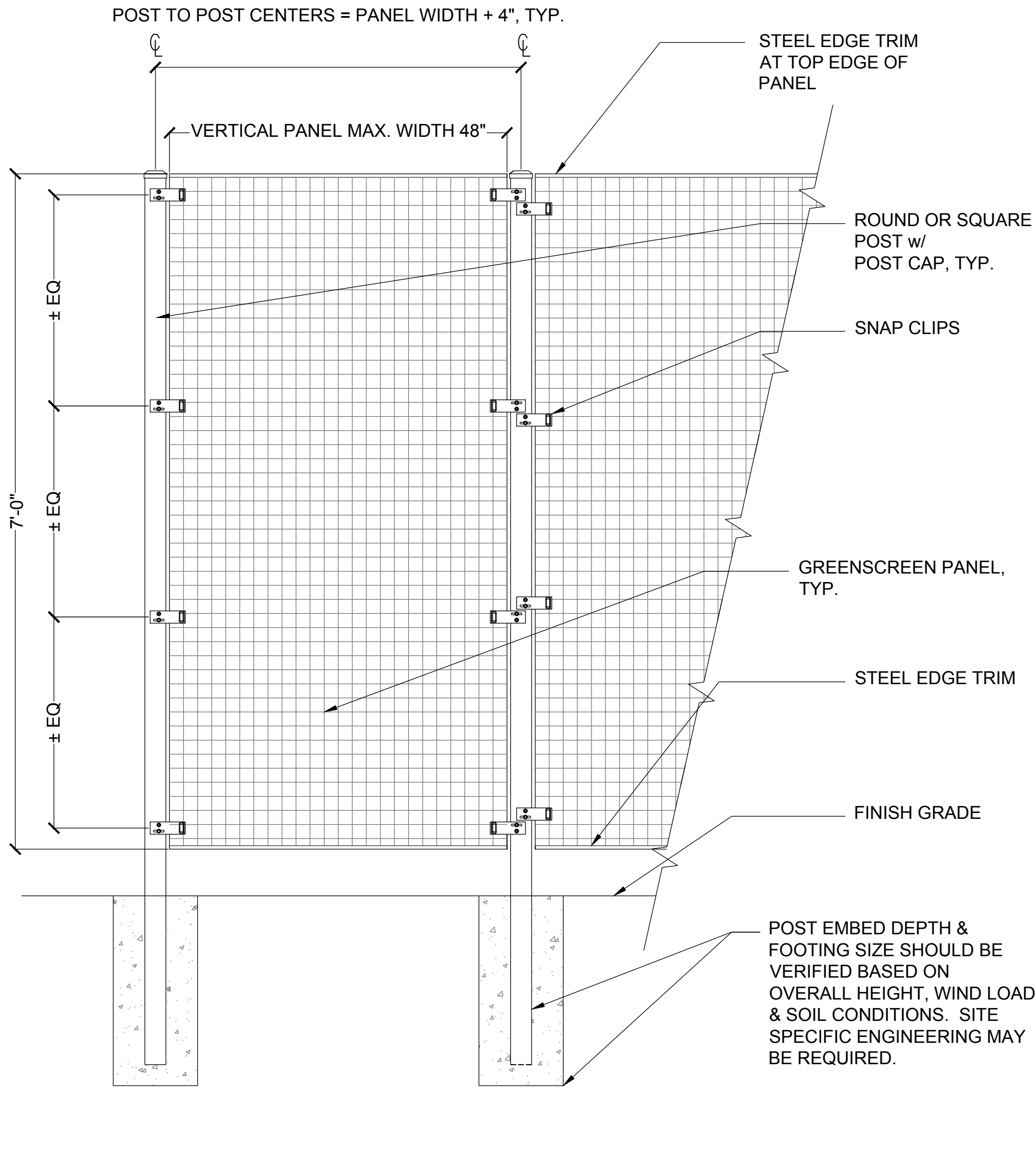
LH-402

PLANTING SCHEDULE					
TURF					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
SOD		SOD	5Y	-	ROLL
FESCUE MIX	MIX	FESCUE MIX	5F	-	SUBS PER 1000 SF
SHRUBS (NATIVE PLANTING- UPLAND)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
RHUS	HIRTA	STAGHORN SUMAC	5 GAL.	4' O.C.	CONTAINER
CORNUS	AMOMUM	SILKY DOGWOOD	5 GAL.	4' O.C.	CONTAINER
LINDERA	BENZON	SPICEBUSH	5 GAL.	4' O.C.	CONTAINER
COMPTONIA	PEREGRINA	SWEET FERN	5 GAL.	4' O.C.	CONTAINER
RHODODENDRON	PERICLYMENOIDES	PINK AZALEA	5 GAL.	4' O.C.	CONTAINER
VIBURNUM	ACERIFOLIUM	MAPLE-LEAVED ARROWWOOD	5 GAL.	4' O.C.	CONTAINER
SHRUBS (NATIVE PLANTING- GREEN INFRASTRUCTURE)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
CLETHRA	ALNIFOLIA	SWEET PEPPERBUSH	5 GAL.	4' O.C.	CONTAINER
SPIRAEA	ALBA VAR. LATIFOLIA	MEADOWSWEET	5 GAL.	4' O.C.	CONTAINER
ARONIA	MELANOCARPA	BLACK CHOKEBERRY	5 GAL.	4' O.C.	CONTAINER
CEPHALANTHUS	OCCIDENTALIS	BUTTON BUSH	5 GAL.	4' O.C.	CONTAINER

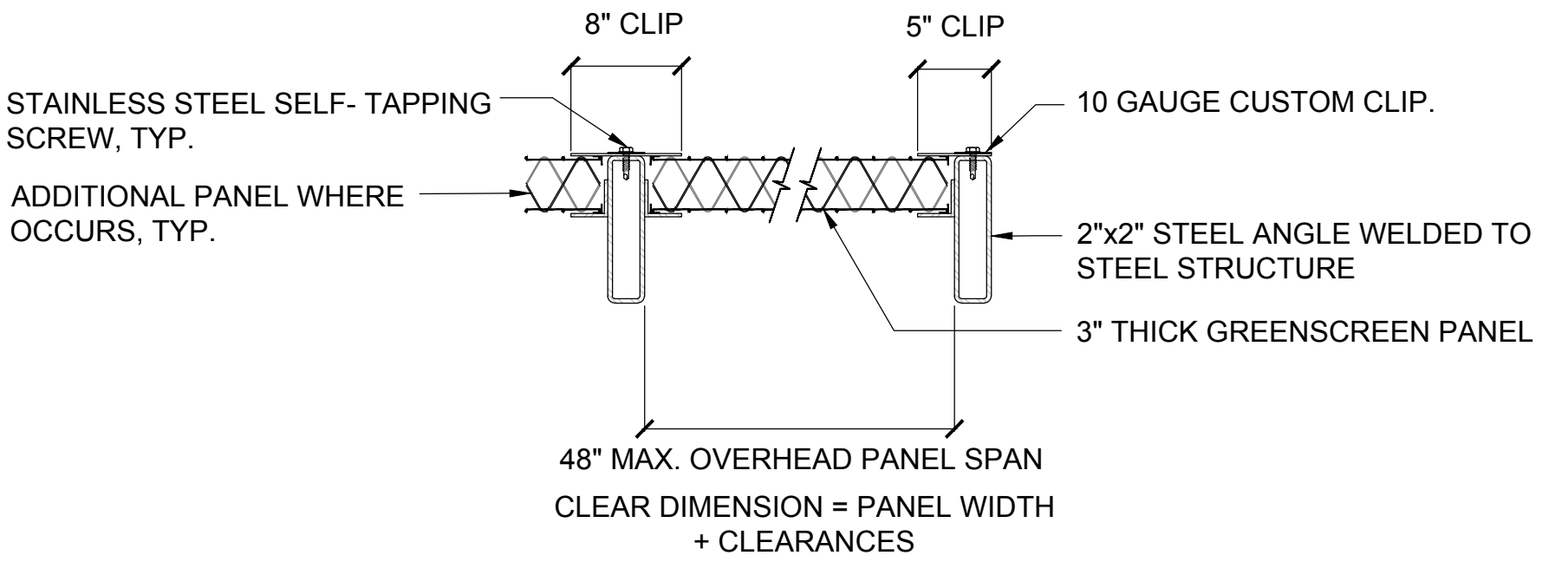
PLUGS AND SEEDING SCHEDULE					
WETLAND (TYPE 1: FRESHWATER) (PLUGS)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
TYPHA	LATTIFOLIA	BROADLEAF CATTAIL	50 CT	14" O.C.	DEEP CELL, 5" DEEP
SCIRPUS	CYPERINUS	WOOLGRASS	50 CT	14" O.C.	DEEP CELL, 5" DEEP
SACORUS	AMERICANUS	AMERICAN SWEETFLAG	50 CT	14" O.C.	DEEP CELL, 5" DEEP
IMPATIENS	CAPENSIS	JEWELWEED	50 CT	14" O.C.	DEEP CELL, 5" DEEP
WETLAND (TYPE 2: BRACKISH) (PLUGS)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
SPARTINA	PATENS	SALTMEADOW CORDGRASS	50 CT	14"	DEEP CELL, 5" DEEP
DISTICHLIS	SPICATA	SALTGRASS	50 CT	14"	DEEP CELL, 5" DEEP
SPARTINA	ALTERNIFLORA	SMOOTH CORDGRASS	50 CT	14"	DEEP CELL, 5" DEEP
ELEOCHARIS	PARVULA	DWARF SPIKERUSH	50 CT	14"	DEEP CELL, 5" DEEP
JUNCUS	ROEMERIANUS	NEEDLEGRASS RUSH	50 CT	14"	DEEP CELL, 5" DEEP
NATIVE VEGETATION (TYPE 1: IN GREEN INFRASTRUCTURE) (PLUGS)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
RUDBECKIA	HIRTA	BLACK-EYED SUSAN	50 CT	14"	DEEP CELL, 5" DEEP
SCHIZACHYRIUM	SCOPARIUM	LITTLE BLUESTEM	50 CT	14"	DEEP CELL, 5" DEEP
CLETHRA	ALNIFOLIA	SWEET PEPPERBUSH	50 CT	14"	DEEP CELL, 5" DEEP
IRIS	VERSICOLOR	BLUE FLAG IRIS	50 CT	14"	DEEP CELL, 5" DEEP
LOBELIA	CARDINALIS	CARDINAL FLOWER	50 CT	14"	DEEP CELL, 5" DEEP
JUNCUS	EFFUSUS	SOFT RUSH	50 CT	14"	DEEP CELL, 5" DEEP
ECHINACEA	PURPUREA	PURPLE CONEFLOWER	50 CT	14"	DEEP CELL, 5" DEEP
NATIVE VEGETATION (TYPE 2: UPLAND PLANTING)(PLUGS)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	NOTES
PANICUM	VIRGATUM	PANIC GRASS	50 CT	14"	DEEP CELL, 5" DEEP
JUNCUS	TENUIS	POVERTY RUSH	50 CT	14"	DEEP CELL, 5" DEEP
ASCLEPIAS	TUBEROSA	BUTTERFLY MILKWEED	50 CT	14"	DEEP CELL, 5" DEEP
ASTER	LAEVIS	SMOOTH ASTER	50 CT	14"	DEEP CELL, 5" DEEP
MONARDA	FISTULOSA	WILD BERGAMOT	50 CT	14"	DEEP CELL, 5" DEEP
PANICUM AMARUM ELL. VAR. AMARULLUM	ELLIOT VAR. AMARULLUM	COASTAL PANICGRASS	50 CT	14"	DEEP CELL, 5" DEEP
SOLIDAGO	SEMPERVIRENS	SEASIDE GOLDENROD	50 CT	14"	DEEP CELL, 5" DEEP
LOW MOW MEADOW MIX(SEED)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	% OF MIX
ELYMUS	VIRGINICUS	VIRGINIA WILD RYE	-	-	25
EUPATORIUM	COELESTINUM	MISTFLOWER	-	-	20
HELIOPSIS	HELIANTHOIDES	FALSE SUNFLOWER	-	-	20
ANDROPOGON	VIRGINICUS	BROOMSEDGE BLUESTEM	-	-	25
BAPTISIA	AUSTRALIS	WILD INDIGO	-	-	10
WETLAND (TYPE 1: FRESHWATER) (SEED)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	% OF MIX
CAREX	VULPINOIDEA	FOX SEDGE	-	-	20
JUNCUS	EFFUSUS	SOFT RUSH	-	-	20
VERBENA	HASTATA	BLUE VERVAIN	-	-	20
BIDENS	ARISTOSA	BUR MARIGOLD	-	-	20
ASCLEPIAS	INCARNATA	SWAMP MILKWEED	-	-	20
WETLAND (TYPE 2: BRACKISH) (SEED)					
GENUS	SPECIES	COMMON NAME	MIN. SIZE	MIN. SPACING	% OF MIX
HIBISCUS	MOSCHEUTOS	ROSE MALLOW	-	-	20
SPARTINA	CYNOSUROIDES	BIG CORDGRASS	-	-	20
SCHOENOPLECTUS	AMERICANUS	OLNEY'S THREE-SQUARE	-	-	20
SPARTINA	ALTERNIFLORA	SMOOTH CORDGRASS	-	-	20
ELEOCHARIS	PARVULA	DWARF SPIKERUSH	-	-	20

PLANTING SCHEDULE

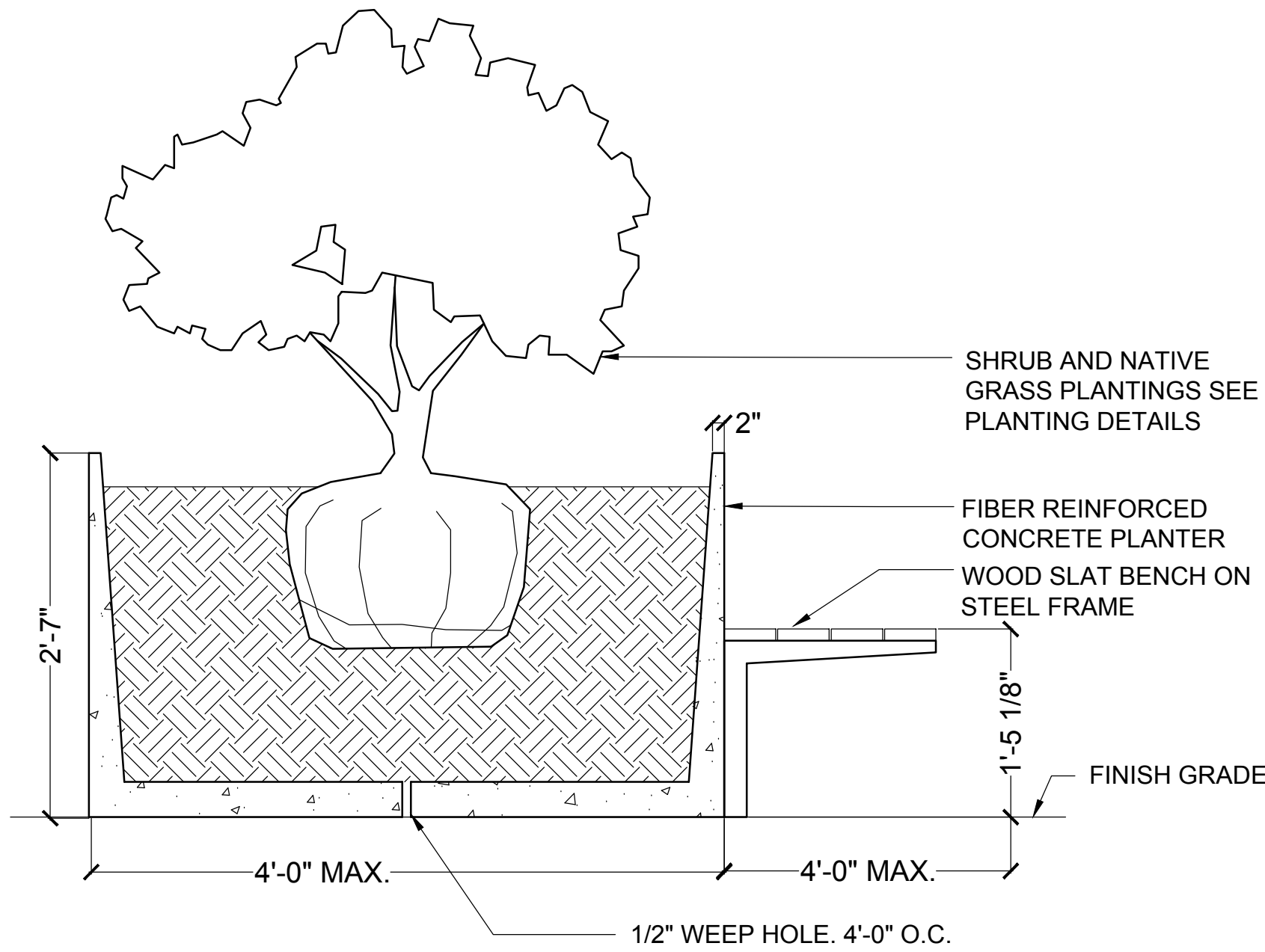
- GENERAL NOTES:
1. PLANTING SCHEDULE AND SPECIES ARE FOR REFERENCE ONLY. FINAL PLANT SPECIES, SIZE, AND SPACING WILL BE DETERMINED DURING FINAL DESIGN.
 2. FURNISHINGS ARE FOR REFERENCE ONLY. FINAL FURNISHINGS AND STRUCTURAL DETAIL TO BE DETERMINED DURING FINAL DESIGN.



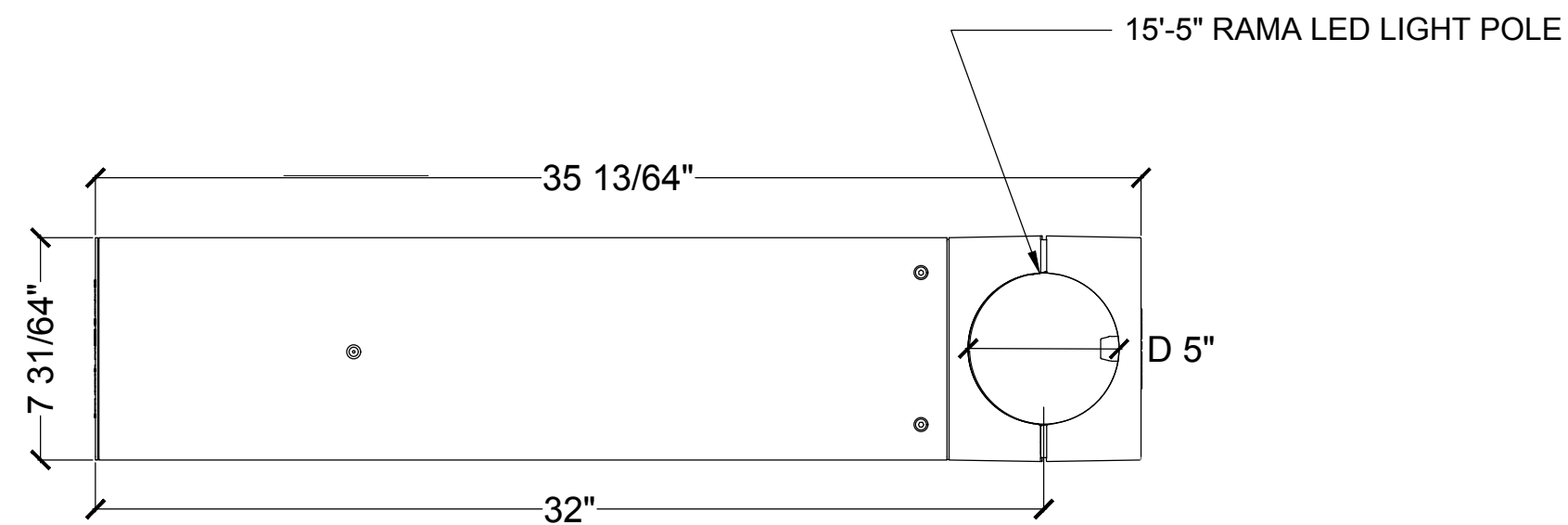
GREENSCREEN-FREESTANDING VERTICAL



GREENSCREEN-OVERHEAD CANOPY



CUSTOM PLANTER AND BENCH



SANTA COLE-RAMA LIGHT FIXTURE PLAN

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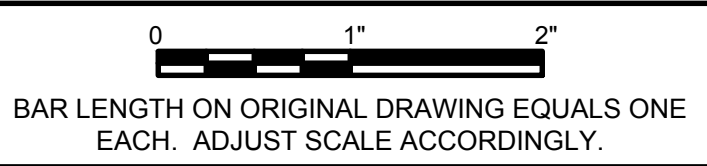
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SHEET TITLE

ALTERNATIVE 1
TYPICAL DETAILS
FURNISHINGS & SCHEDULE

SHEET NUMBER

LH-403