

High East Isometric



Existing Facility Entrance



The proposed transfer station expansion will be constructed in the same style, with the same color scheme, as the photos shown.

Review Comments  
(With Key to Drawing Revisions)

**Alameda County Fire Department Review Comments**  
The fire department access road is shown as 20 feet wide. As the building is over 30 feet in height the fire department access road is required to meet the requirements of Sections D105.1 and D105.3 for aerial fire apparatus. Clearly show how access road complies.

**Fire Access Layout:** See new sheet 1.3

The water supply shall be capable of providing the greater of:  
a. The automatic sprinkler system demand, including hose stream allowance.  
b. The required fire-flow which is 1,500 gpm at 20psi for 2 hours.

**Fire Sprinkler and Fire Flow:** See text at left edge of new sheet 1.3.

**Building and Safety Services Division Review Comments**  
1. Square footage shown on Building Area Calculations does not match Site Plan Square Footage. Please clarify.

**Square Footage:** See revised sheets 1.1 and 1.2. Revised plan square footage on site plans to agree with tabular data. Areas are conservatively measured for these calculations. Exact final areas will be provided with permit submittal documents and are pending detailed survey of existing conditions.

2. Please verify that Vertical Continuity of Fire Wall meet the intent of the CBC Sec. 706.6.

**Fire Wall Continuity:** See new note on detail B of revised sheet B2 noting fire wall extends 36" above existing roof.

**Planning Services Division Review Comments**  
1. Please provide additional information on the following:  
a. Provide Lot Coverage calculation for 610 Aladdin Avenue

**Lot Coverage:** see revised sheet 1.2 with new project data table

b. Provide Floor Area Ratio (F.A.R.) calculation for 610 Aladdin Avenue

**FAR:** see revised sheet 1.2 with new project data table

c. Provide setback dimensions for the proposed transfer station addition building at 610 Aladdin Avenue in the plans and in a table.

**Setback Dimensions:** see revised sheet 1.2 with setback dimensions added and table of setbacks in top left corner of sheet.

d. Provide the proposed roof height for the top of proposed transfer station addition building on the elevations

**Roof Height:** see revised sheet 3.0 with roof peak elevation

e. Provide a color rendering for the proposed transfer station addition building

**Rendering:** see revised cover sheet 0.1 with photographs of existing facility and statement that "The proposed transfer station expansion will be constructed in the same style, with the same color scheme, as the photos shown."

Drawing List

- 0.1 Cover Sheet
- 0.2 Perspectives
- 1.1 Code Area and Fence Plan
- 1.2 Site Plan - Detailed
- 1.3 Fire Department Access & Compliance Layout
- 2.0 Proposed Main Level Plan
- 3.0 Elevations
- 4.0 Sections
- 4.1 Sections
- B2 Firewall
- C1 Ramp Profiles
- C2 Ramp and Truck Scale Drainage Schematic

Structural Narrative

This project will incorporate a structural design that does not increase the seismic force in any existing structural member by more than 10 percent cumulative since the original construction and does not decrease the the design strength of any existing structural element more than 5 percent cumulative since the original construction.

Additions will be structurally independent of the existing structure.

ACCURACY NOTE: THIS BUILDING PLAN IS FOR CONCEPTUAL USE ONLY. DO NOT USE FOR DESIGN, PERMITTING, OR CONSTRUCTION.

PLANS OF EXISTING BUILDINGS ARE SCHEMATIC ONLY AND DO NOT SHOW ALL INTERIOR WALLS OR DOORS OR EXACT DIMENSIONS!



ALAMEDA COUNTY INDUSTRIES  
Transfer Station Addition

610 Aladdin Avenue, San Leandro, CA 94577

Conceptual Plans Only - Not for Design, Permitting, or Construction

Revision Number	Description	Date
K	Rev. K	5-31-2017
L	Rev. L	6-26-2017

Project # 02-ET1491

WORKING DRAFT - L

6-26-2017

SHEET NUMBER

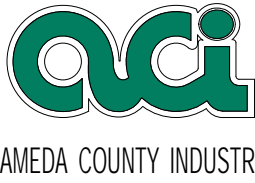
0.1

Cover Sheet

ORIGINAL SHEET SIZE 22" X 34"

PROJECT # 02-ET1491





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Transfer Station Addition

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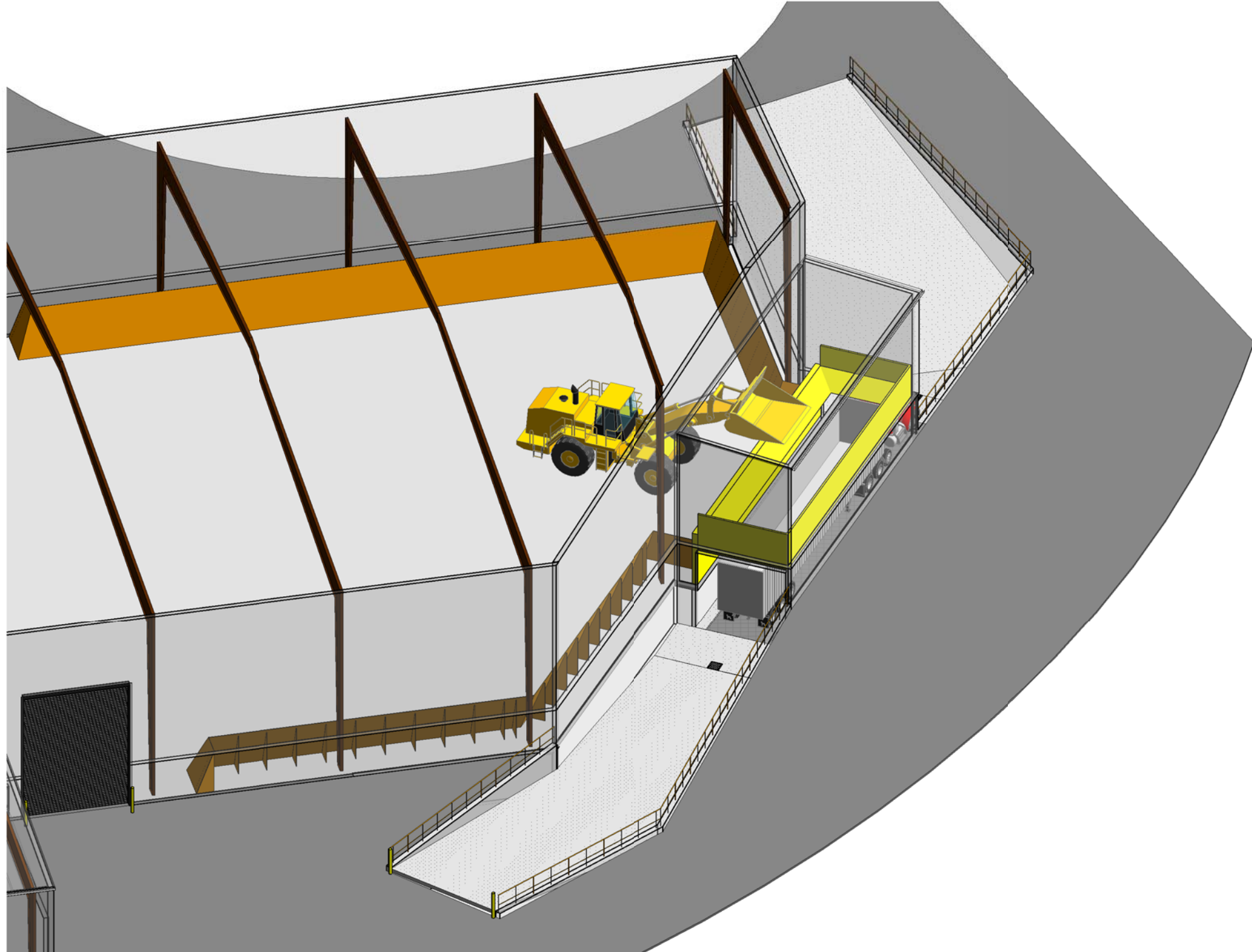
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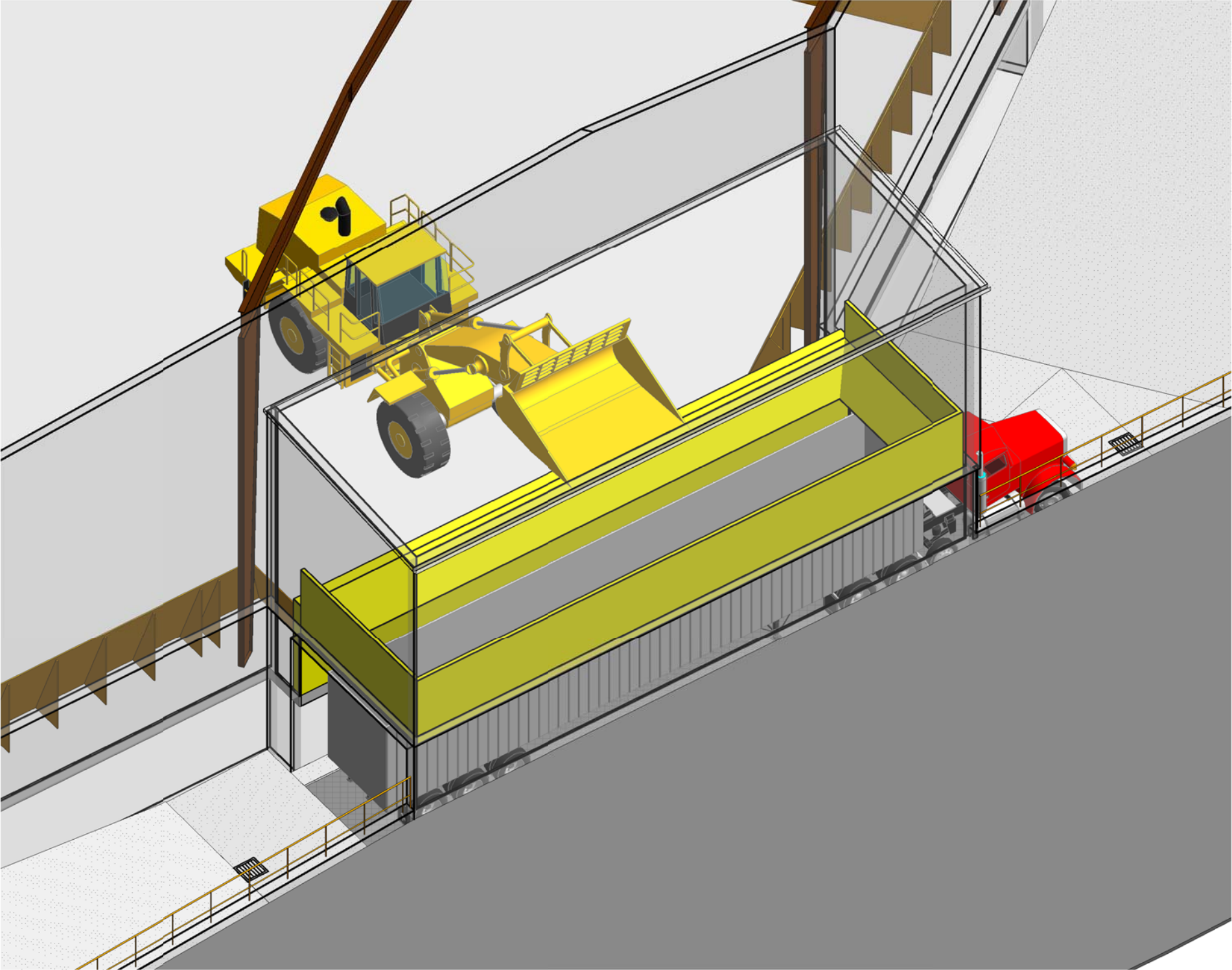
Project # 02-ET1491

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6-26-2017

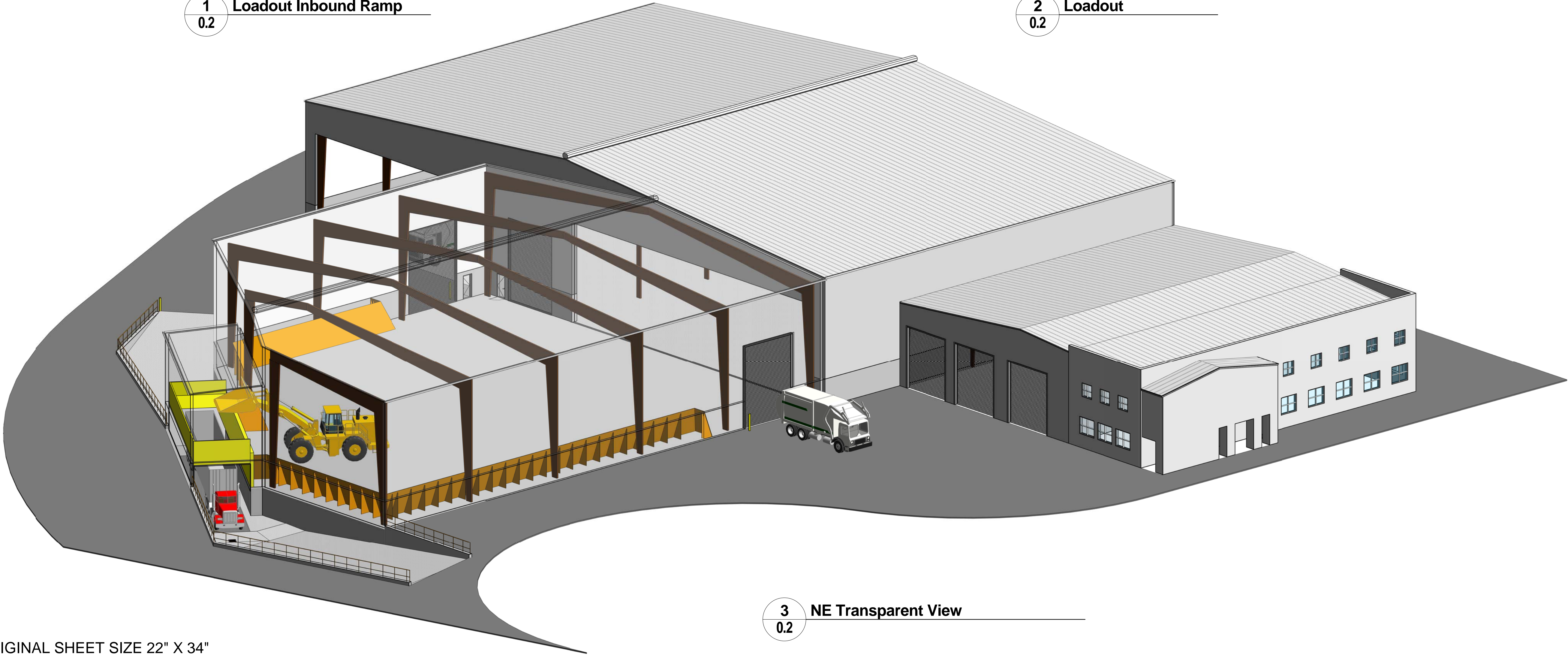
SHEET NUMBER  
0.2  
Perspectives



1 Loadout Inbound Ramp  
0.2



2 Loadout  
0.2



3 NE Transparent View  
0.2

ORIGINAL SHEET SIZE 22" X 34"

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1.1

SITE PLAN

BUILDING AREA CALCULATIONS  
FOR PROPOSED TRANSFER STATION ADDITION

Fire Sprinklers: Existing Office, Shop, and Material Recovery Facility (MRF) have fire sprinklers. Proposed Transfer Station to have fire sprinklers. Existing Risers in NE Corner of Maintenance Shop, and exterior NE corner of Existing Transfer Station. Existing FDC on Alladin Ave.

Existing Construction:  
Office: Type IIIB and B Occupancy, 2,550 sf x 2 stories  
Maintenance Shop: Type IIIB and S1 Occupancy, 5,950 sf x 1 story  
Mat. Recov. Facility: Type IIIB and F1 Occupancy, 27,950 sf x 1 story

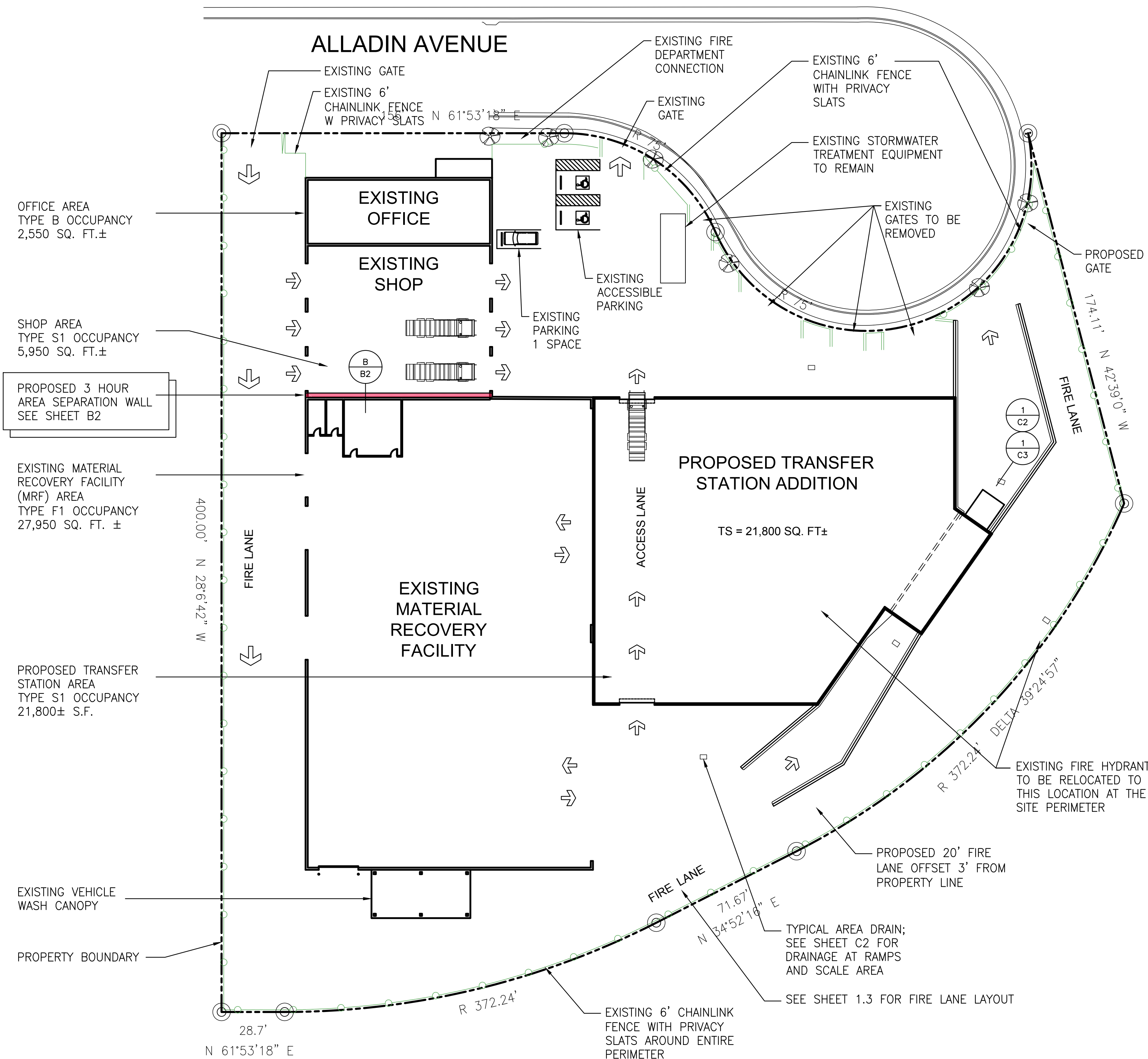
Proposed:  
Transfer Station: Type IIIB and F1 Occupancy, 21,800 sf x 1 story

PART 4C-1 Existing ALAMEDA COUNTY INDUSTRIES Transfer Station:  
Building Area Calculation w/ FIRE WALL between Existing Maintenance shop and F1 area  
Construction Type: IIIB

Frontage Increase calculation: $I(f) = (F/P - .25)W/30$ $P = 1019$ $F = 934$ $W = 30$				B 2,550 S1: 5,950	(N) S1: 21,800
(F/P - .25) 0.67	W/30 = 1	I(f) 0.67		F1: 27,950	
Type IIIB S1 occ base allowable	increase for frontage - If = 0.67 X 0.67	increase for sprinklers one story X 3	Allowable w/ increases	Actual Area	
17500 +	11725	52500	81725 (S1)	21800 (s1)	
Type IIIB F1 occ base allowable	increase for frontage - If = 0.67 X 0.67	increase for sprinklers one story X 3			
12000 +	8040	36000	56040 (F1)	27950 (f1)	
Type IIIB B occupancy base allowable	increase for frontage - If = 0.67 X 0.67	increase for sprinklers two story X 2			
19000 +	12730	38000	69730 (B)	0 (b)	
				49750 Total Actual Area	
s1/S1 +	f1/F1 +	b/B	=	<1	
0.267	0.499	0.000	=	0.77 <1	Therefore: O.K.

PART 4C-2 Existing ALAMEDA COUNTY INDUSTRIES Transfer Station:  
Building Area Calculation w/ FIRE WALL between Existing Maintenance shop and F1 area  
Construction Type: IIIB

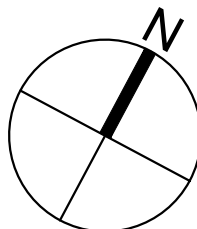
Frontage Increase calculation: $I(f) = (F/P - .25)W/30$ $P = 370$ $F = 285$ $W = 30$				B 2,550 S1: 5,950	(N) S1: 21,800
(F/P - .25) 0.52	W/30 = 1	I(f) 0.52		F1: 27,950	
Type IIIB S1 occ base allowable	increase for frontage - If = 0.52 X 0.52	increase for sprinklers two story X 2	Allowable w/ increases	Actual Area	
17500 +	9100	35000	61600 (S1)	5950 (s1)	
Type IIIB F1 occ base allowable	increase for frontage - If = 0.52 X 0.52	increase for sprinklers two story X 2			
12000 +	6240	24000	42240 (F1)	0 (f1)	
Type IIIB B occupancy base allowable	increase for frontage - If = 0.52 X 0.52	increase for sprinklers two story X 2			
19000 +	9880	38000	66880 (B)	2550 (b)	
				8500 Total Actual Area	
s1/S1 +	f1/F1 +	b/B	=	<1	
0.097	0.000	0.038	=	0.13 <1	Therefore: O.K.



ORIGINAL SHEET SIZE 22" X 34"

CODE AREA AND FENCE PLAN

1" = 30'





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SITE PLAN DETAILED



Required Fire Flow Calculations

The water supply shall be capable of providing the greater of:

- a) The automatic sprinkler system demand, including hose stream allowance
- b) The required fire-flow which is 1,500 gpm at 20 psi for 2 hours

The proposed new Transfer Station Addition building will be sprinklered throughout with an automatic sprinkler system which should be designed to the same occupancy classification as the existing building which is Extra Hazard Group I (0.30 gpm/sqft Over 2500 sqft.)

The resulting anticipated automatic sprinkler system demand for this system is 750 gpm discharging from the sprinkler system plus a 500 gpm hose stream allowance per NFPA-13-2016 requirements for a **total automatic sprinkler demand of 1250 gpm.**

The Required Fire Flow per city comments and CFC is **1,500 gpm at 20 psi for 2 hours.**

The required fire flow is greater than the projected automatic sprinkler system demand and thus the fire flow is the controlling demand the water supply must be able to provide.

The water flow information from the site based on data from recent sprinkler system T.I.'s (F16-0060) is:  
57 PSI Static  
56 PSI Residual @ 1500 gpm flowing

Required fire flow of 1,500 gpm @ 20 psi is < 1,500 gpm @56 psi available from the water supply.

Thus, the results are:

**The water supply (1,500 gpm at 56 psi) is capable of providing the greater of the anticipated automatic sprinkler system demand (1250 gpm @ approx 50 psi) and fire flow demand (1500 @ 20 psi).**

reference: Walschon Fire Protection Inc. 3/1/2017

5/31/2017 - NEW SHEET 1.3



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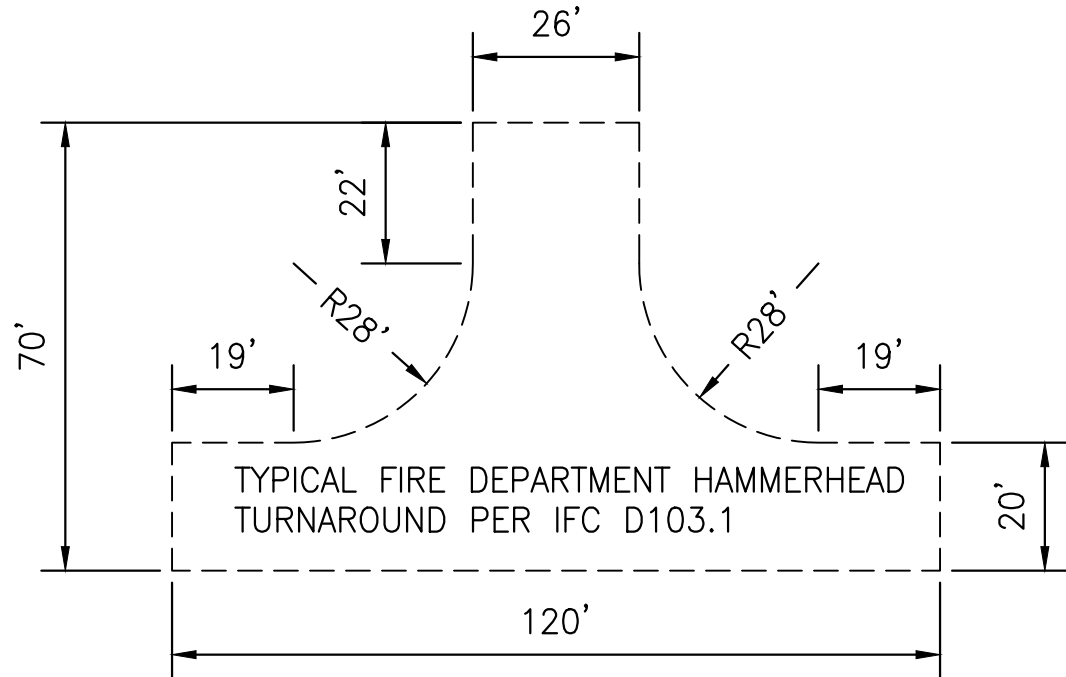
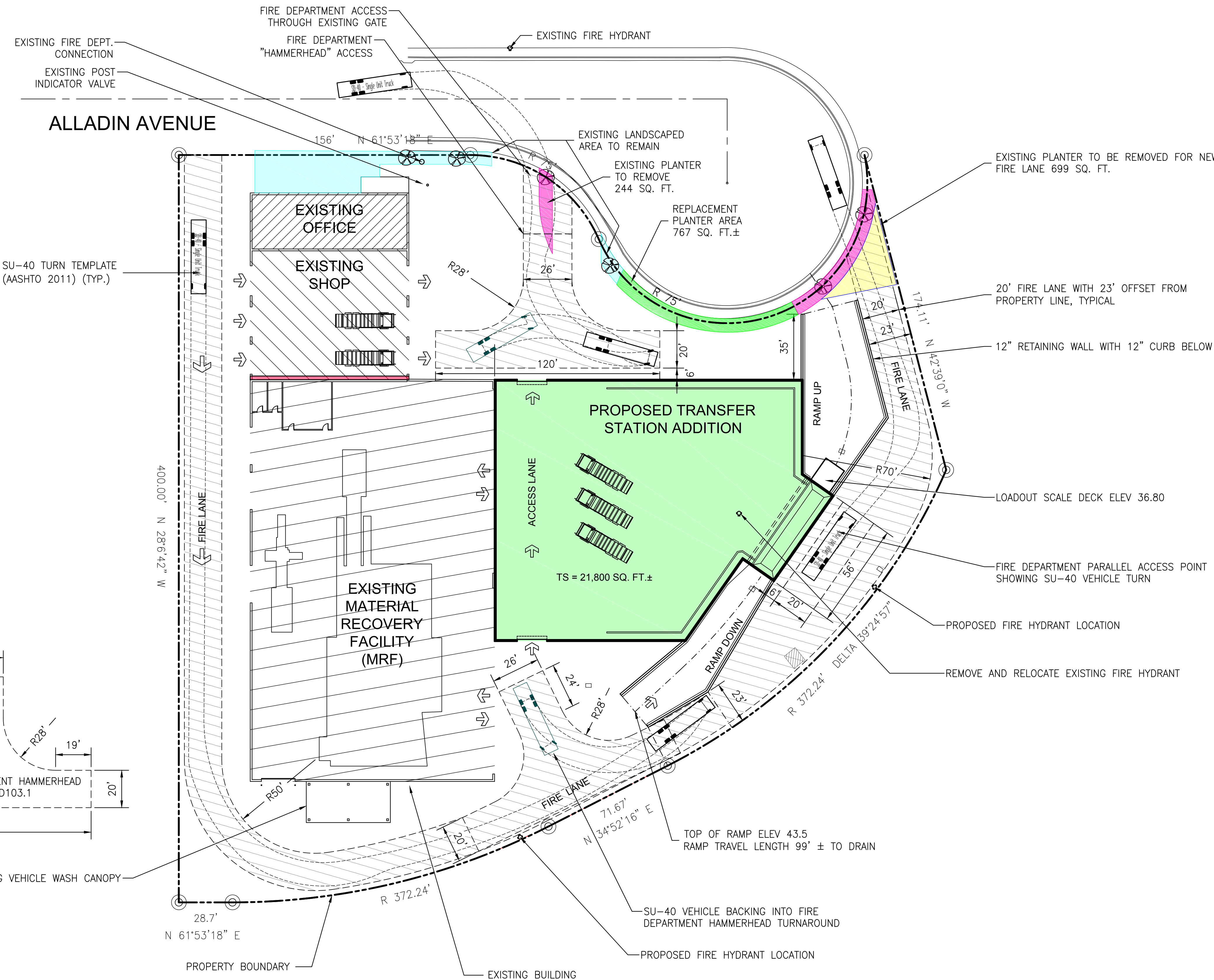
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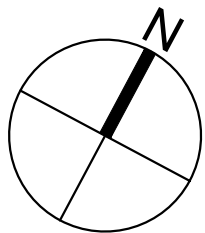
WORKING DRAFT - L  
6-26-2017

SHEET NUMBER  
**1.3**  
FIRE DEPT. LAYOUT



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FIRE DEPARTMENT ACCESS AND COMPLIANCE LAYOUT  
1" = 30'







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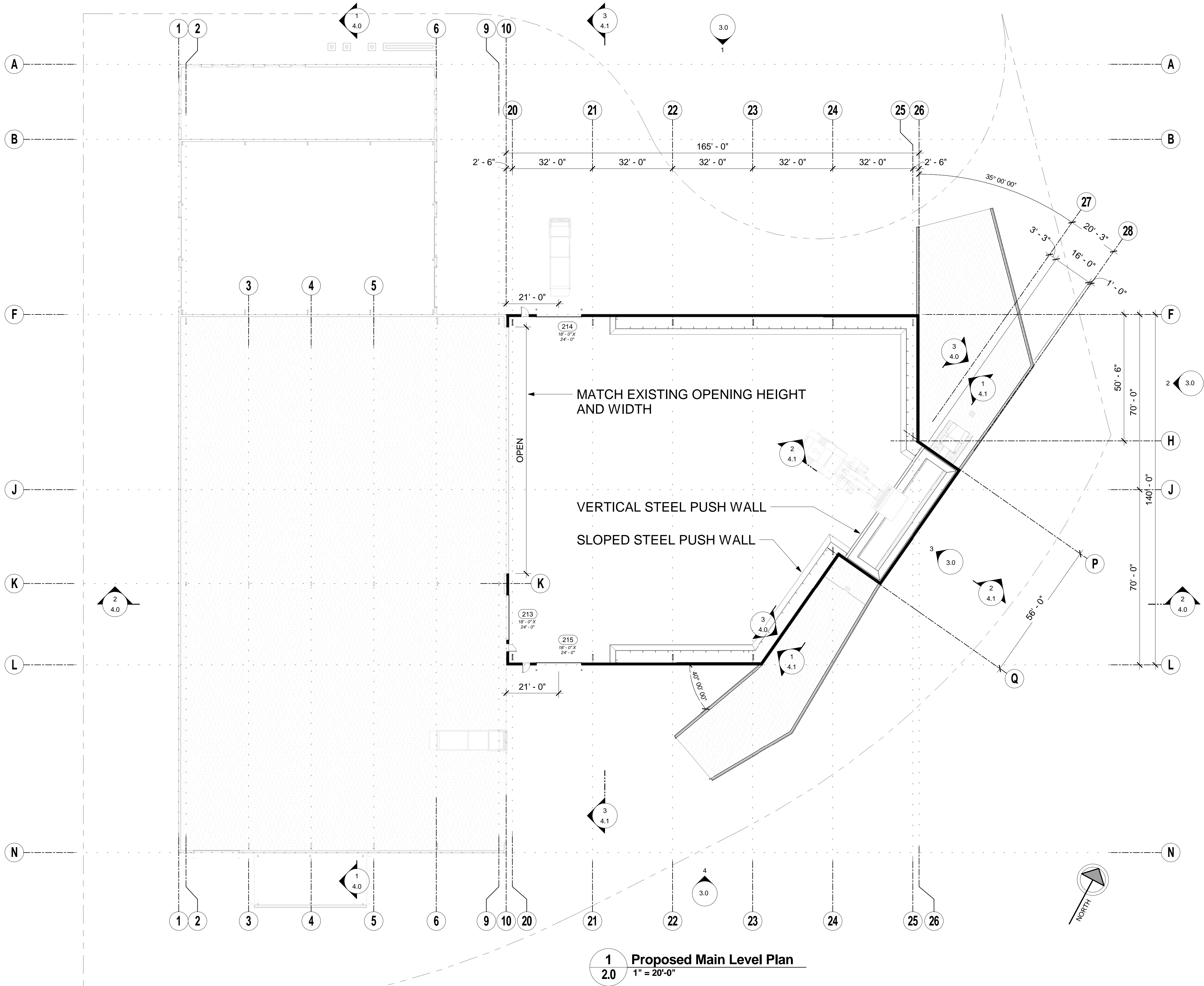
WORKING DRAFT - L

6-26-2017

SHEET NUMBER

2.0

Proposed Main Level Plan

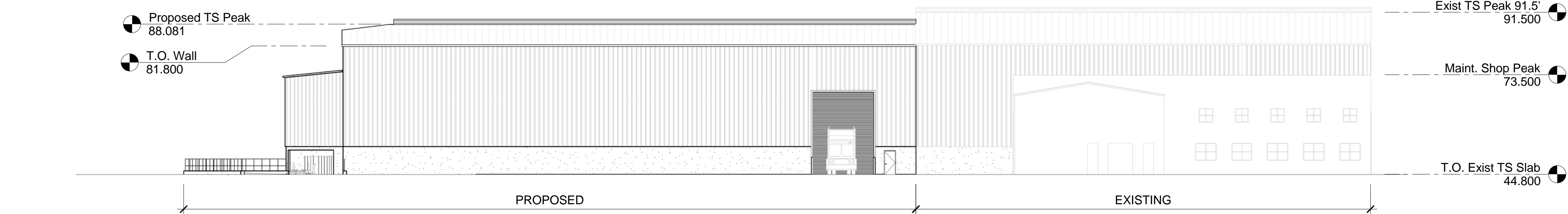


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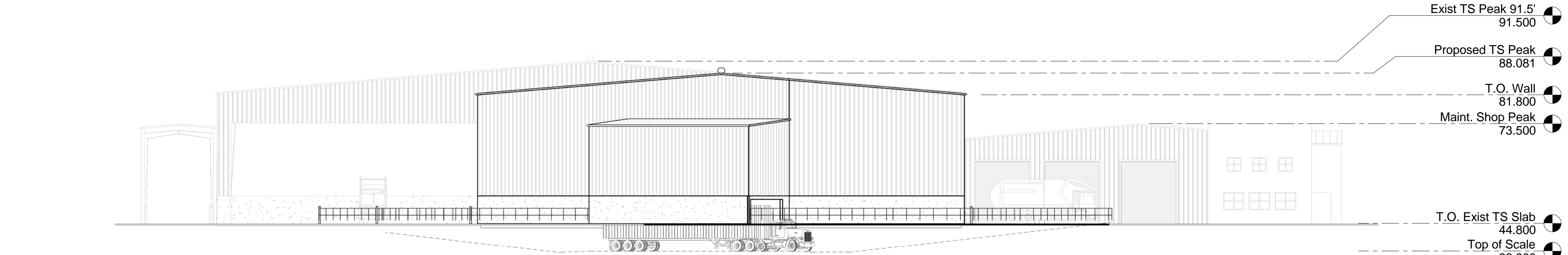
ORIGINAL SHEET SIZE 22" X 34"

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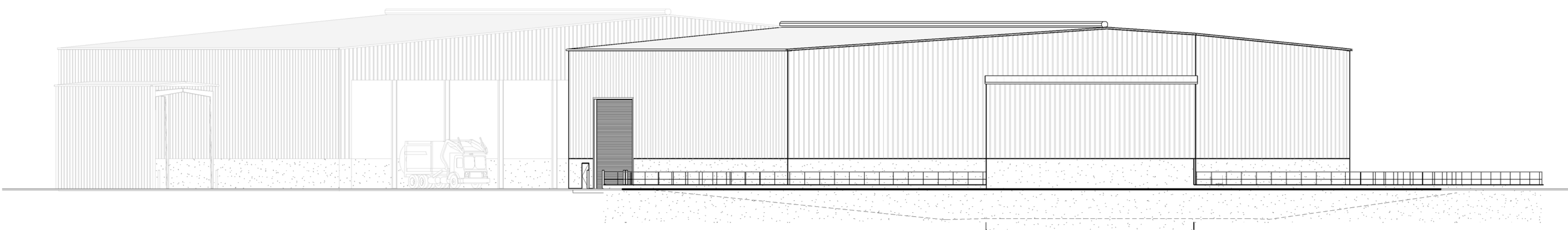
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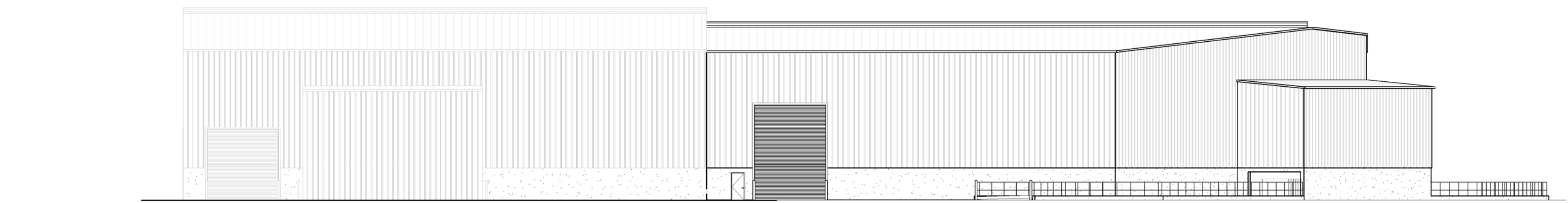
1 North Elevation  
3.0 1" = 20'-0"



2 East Elevation  
3.0 1" = 20'-0"



3 Southeast Elevation  
3.0 1" = 20'-0"



4 South Elevation  
3.0 1" = 20'-0"

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6-26-2017

SHEET NUMBER  
3.0  
Elevations





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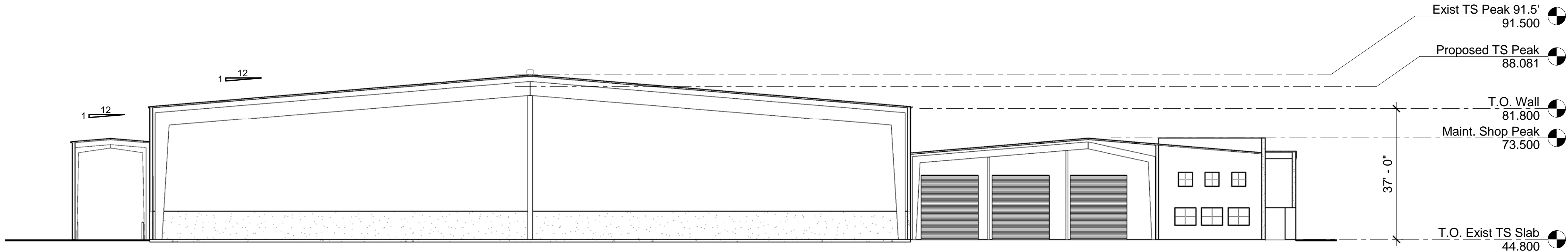
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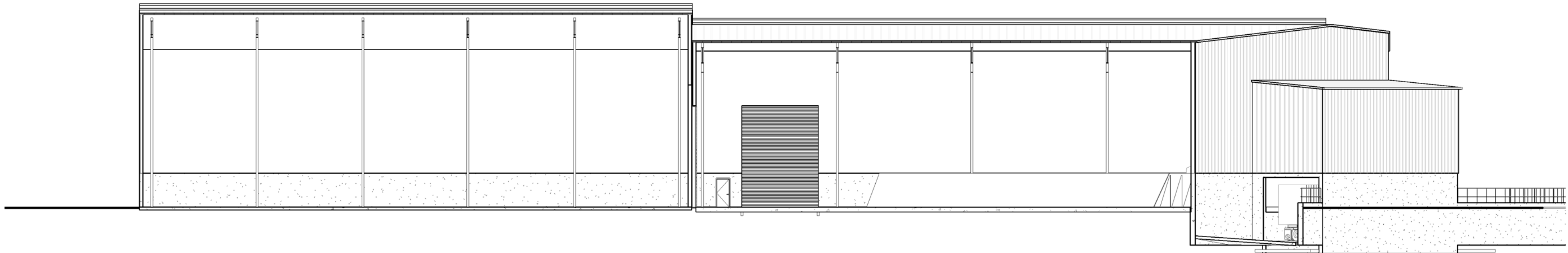
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4.0

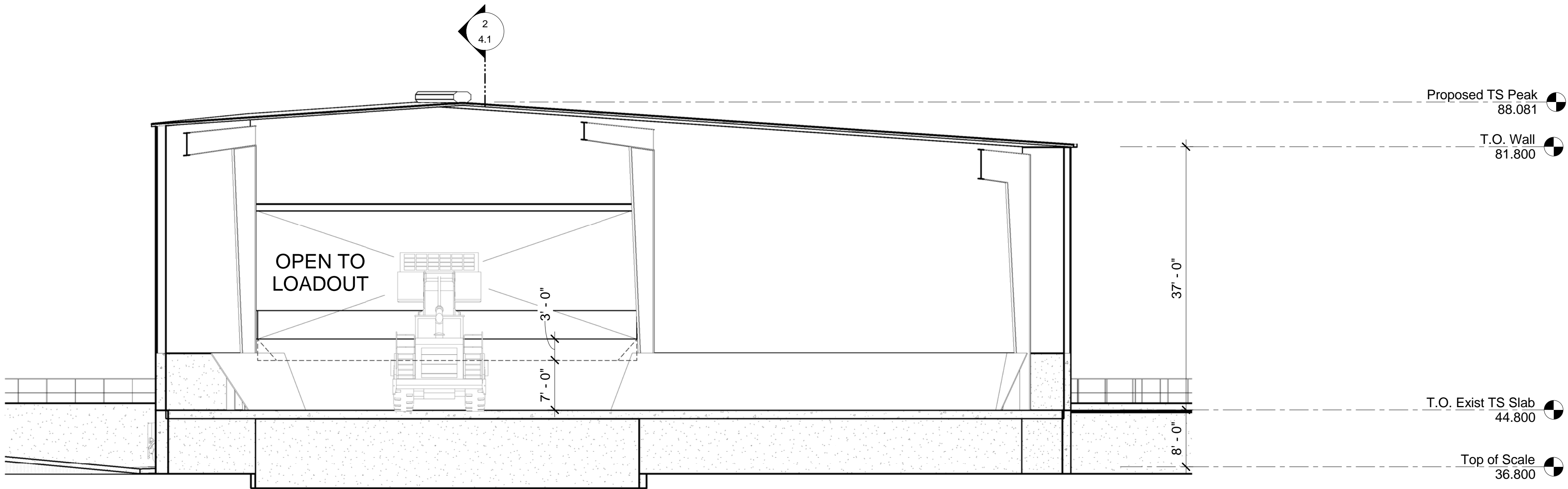
Sections



1 Section at Existing TS Looking West  
4.0 1" = 20'-0"



2 Section at Existing TS Looking North  
4.0 1" = 20'-0"



3 Interior View of Loadout  
4.0 3/32" = 1'-0"

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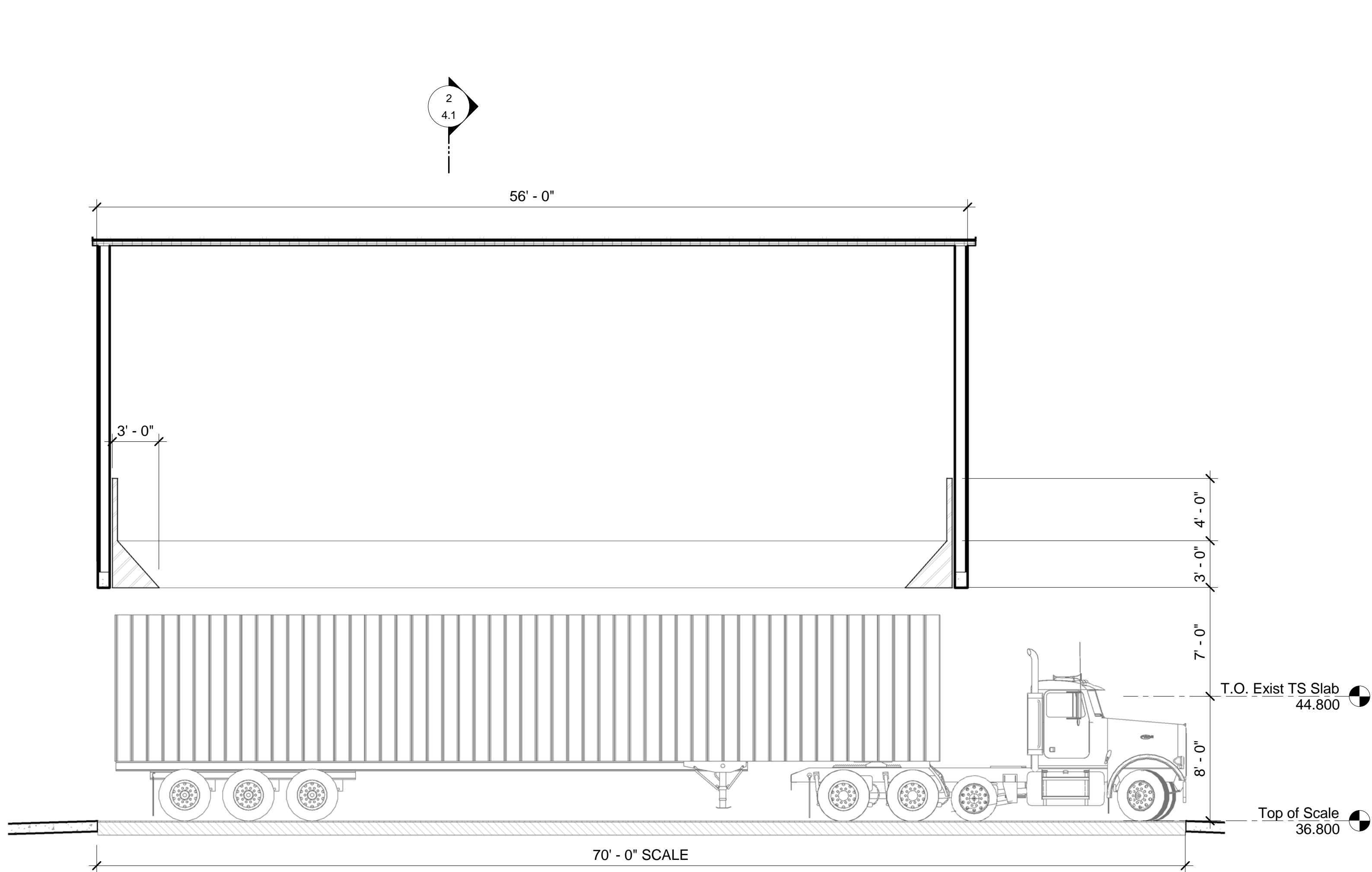
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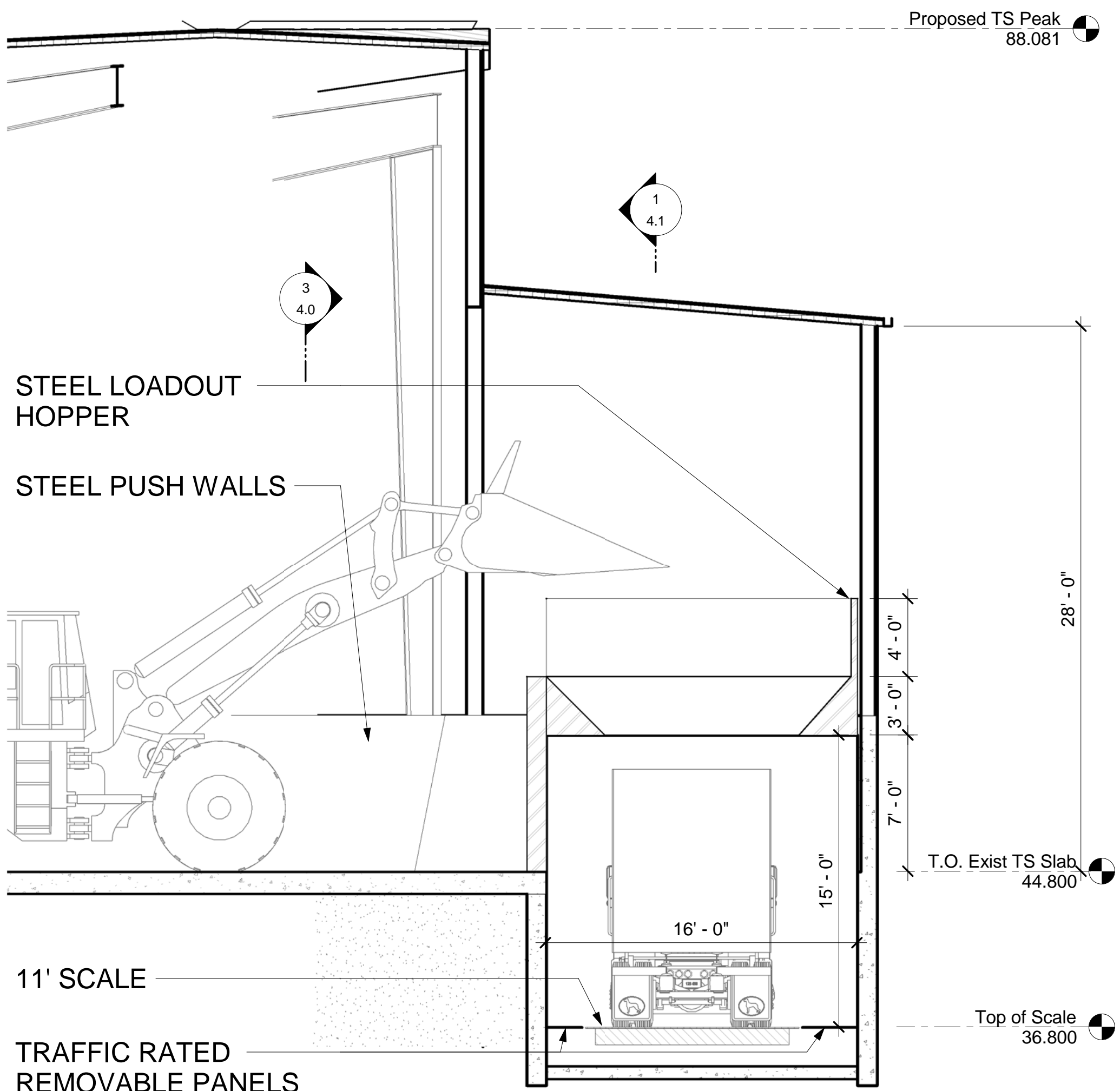
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6-26-2017

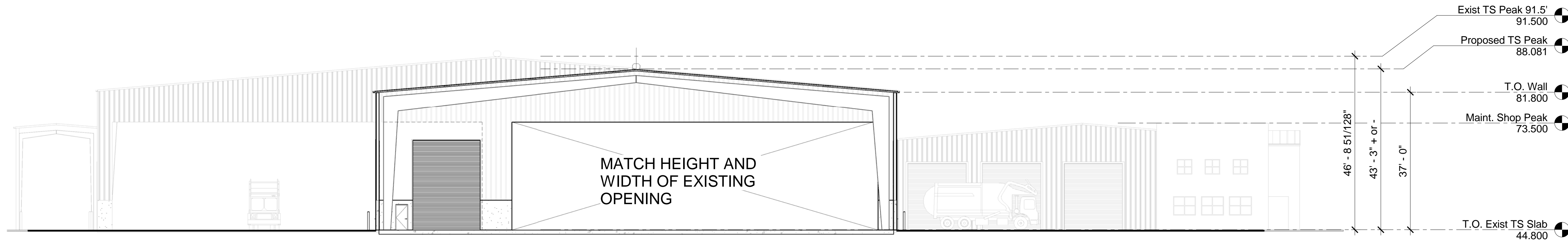
SHEET NUMBER  
**4.1**  
Sections



**1**  
4.1 **Long Section at Loadout**  
3/16" = 1'-0"



**2**  
4.1 **Section Across Loadout Tunnel**  
3/16" = 1'-0"



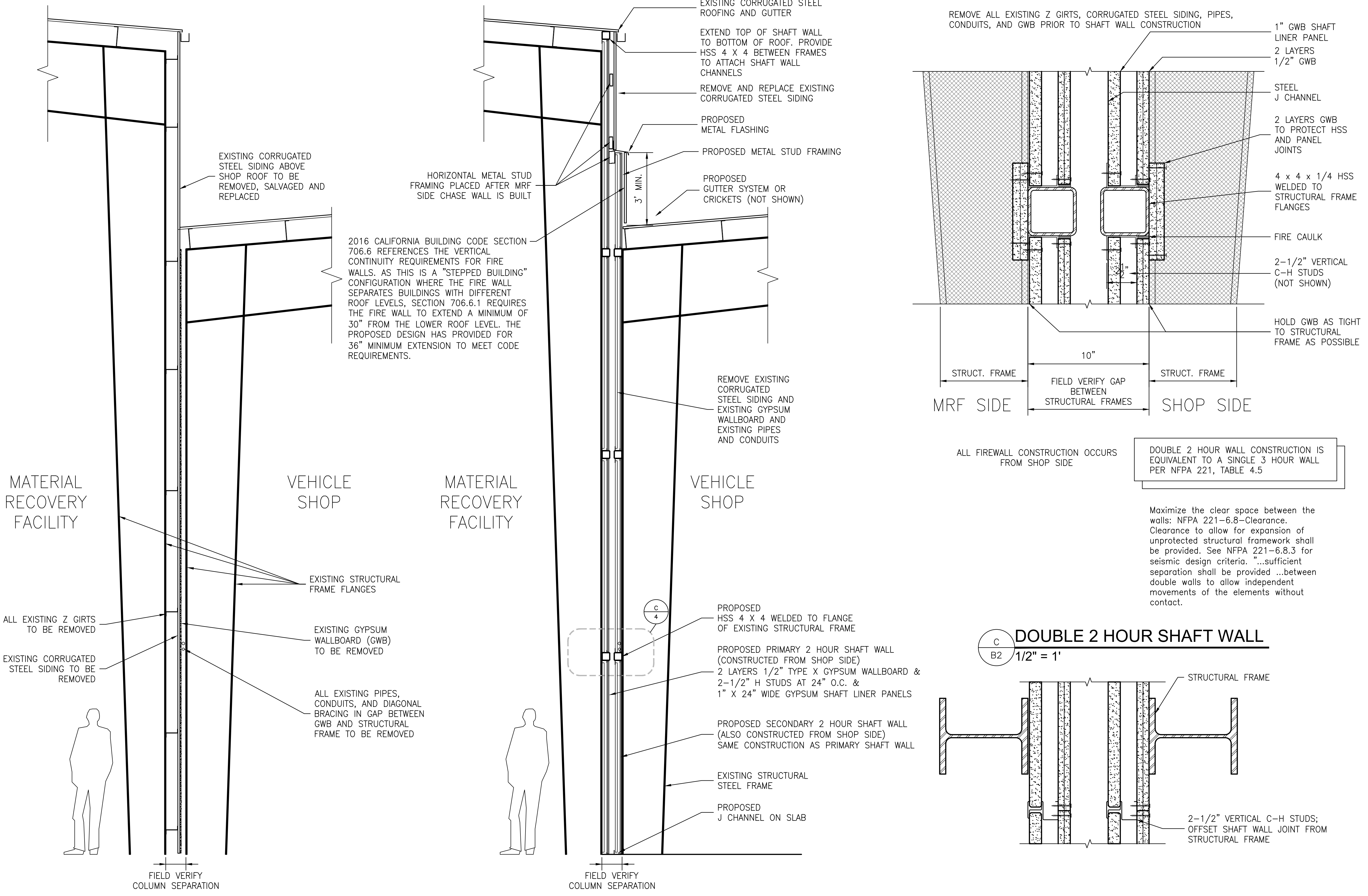
**3**  
4.1 **Section at New Load Aisle Looking West**  
1/16" = 1'-0"

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6-26-2017  
FIRE WALL LAYOUT

SHEET NUMBER  
B2





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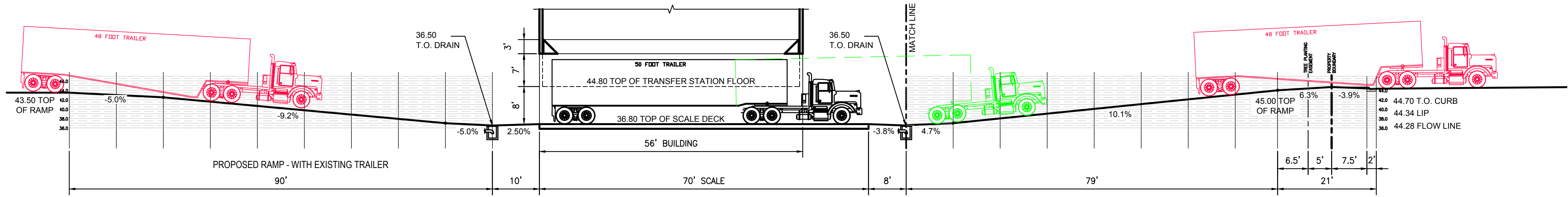
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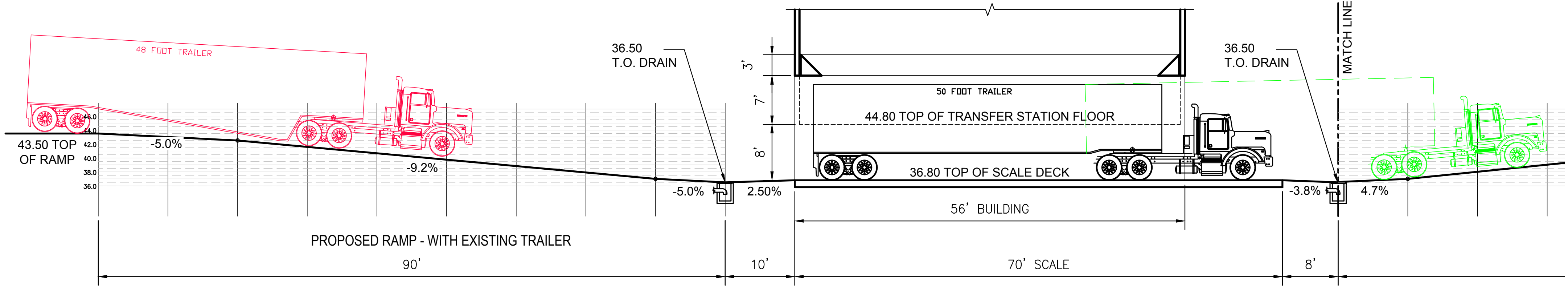
Project # 02-ET1491  
WORKING DRAFT - L  
6-26-2017  
RAMP PROFILES

SHEET NUMBER

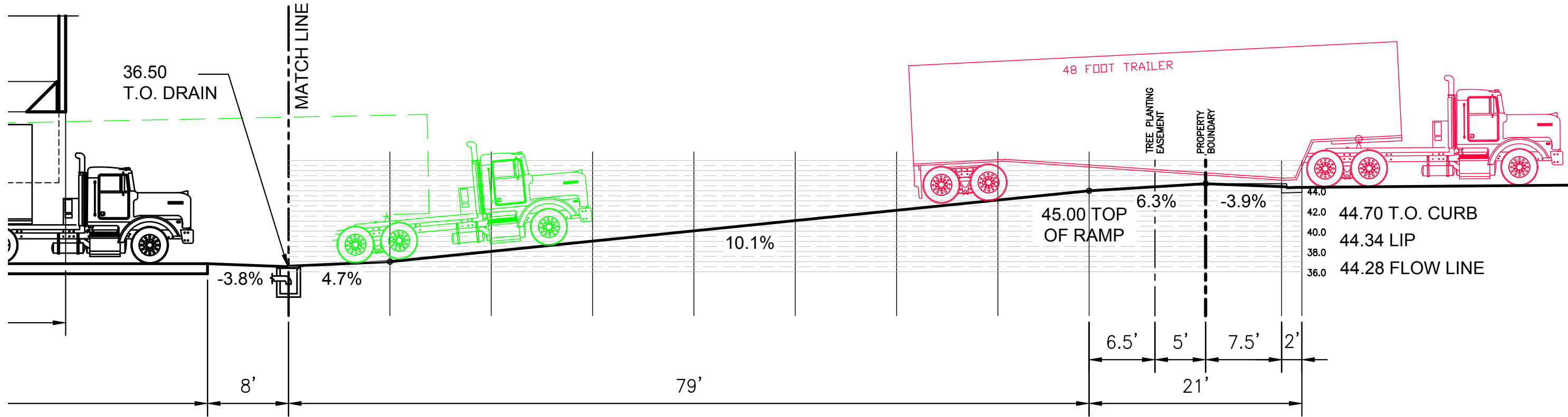
C1



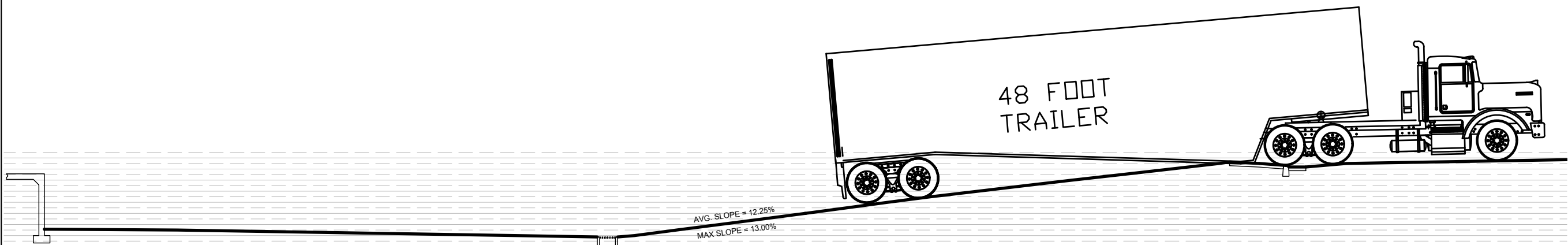
1 OVERALL RAMP PROFILE  
1" = 15'



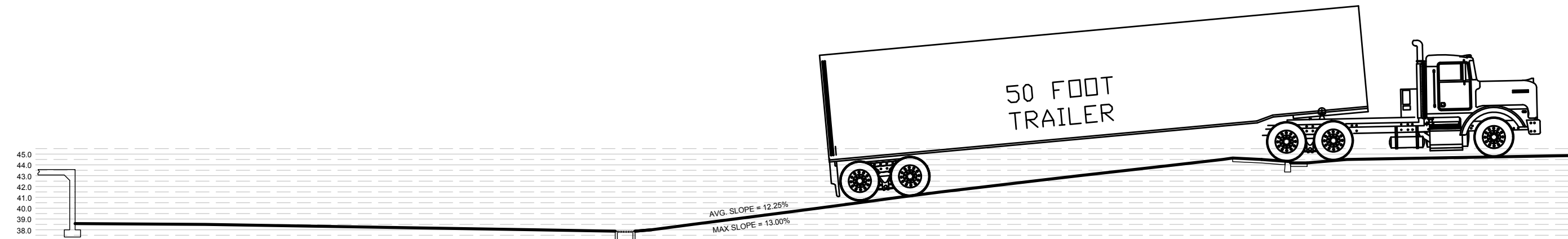
2 INBOUND RAMP AND SCALE PROFILE  
1" = 10'



3 OUTBOUND RAMP PROFILE  
1" = 10'



4 EXISTING RAMP PROFILE  
1" = 10'



5 EXISTING RAMP PROFILE  
1" = 10'

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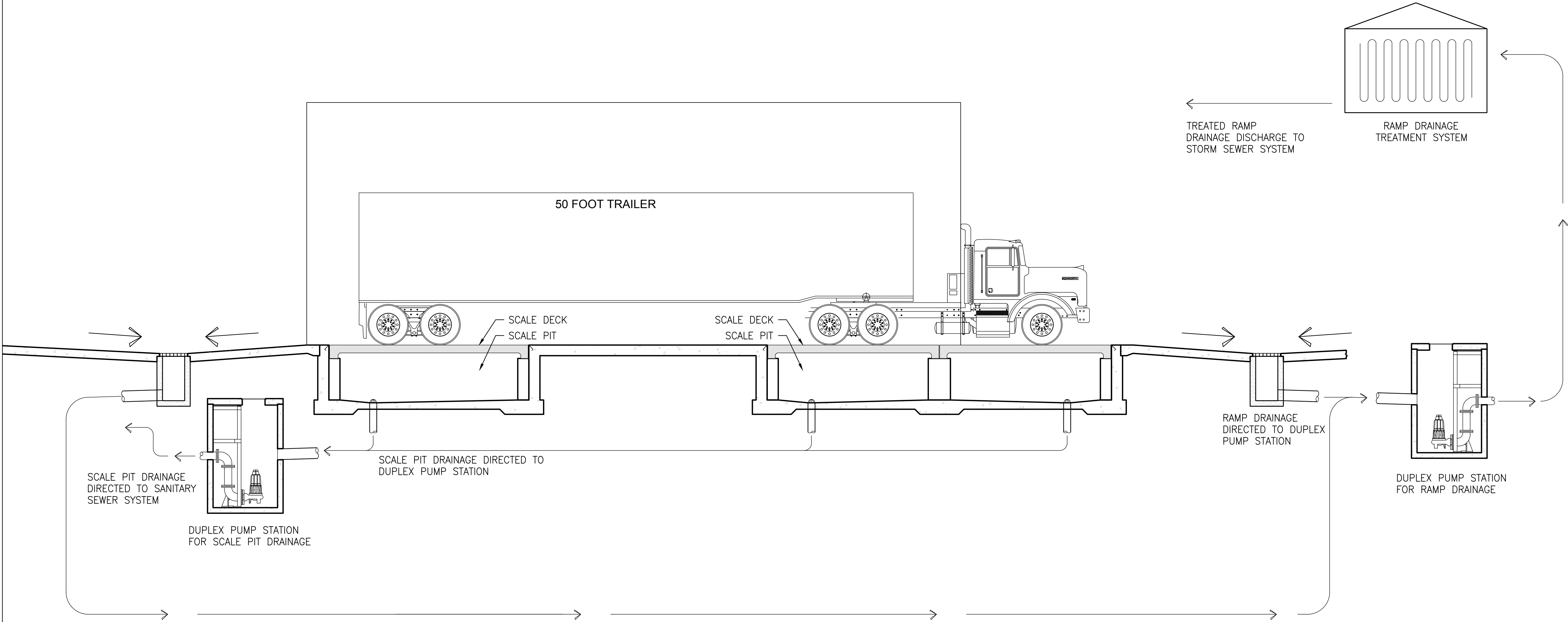
Project # 02-ET1491

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6-26-2017  
RAMP DRAINAGE

SHEET NUMBER

C2

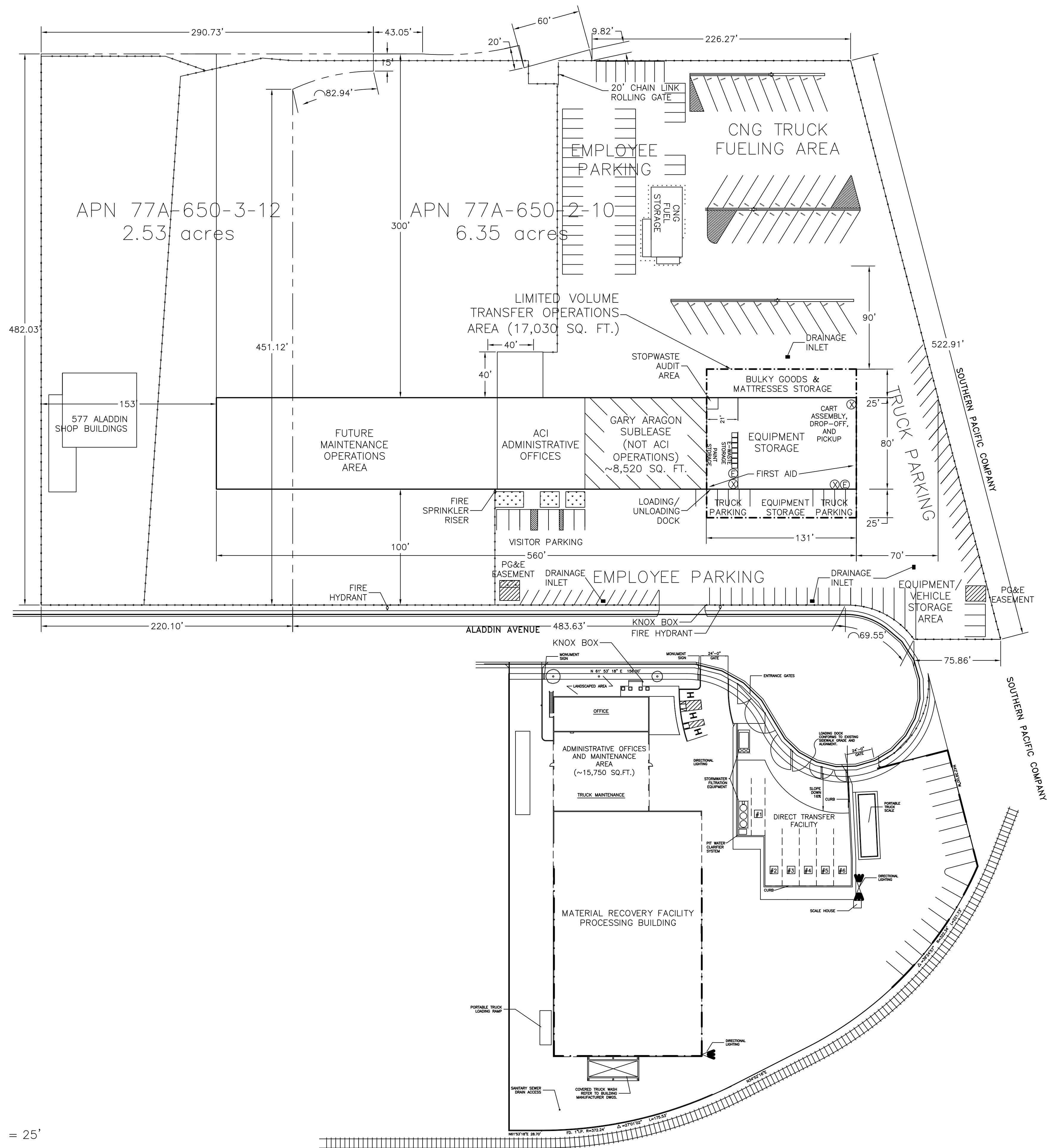


1 RAMP AND TRUCK SCALE DRAINAGE SCHEMATIC  
1" = 5'



ORIGINAL SHEET SIZE 22" X 34"





PROJECT DATA

ZONING:	IG	BUILDING HEIGHTS:	< 35'
LOT AREA:	APN 77A-650-2-10	6.35 ACRES	
	APN 77A-650-3-12	2.53 ACRES	
	TOTAL	8.88 ACRES	
		386,800 SQ. FT.	

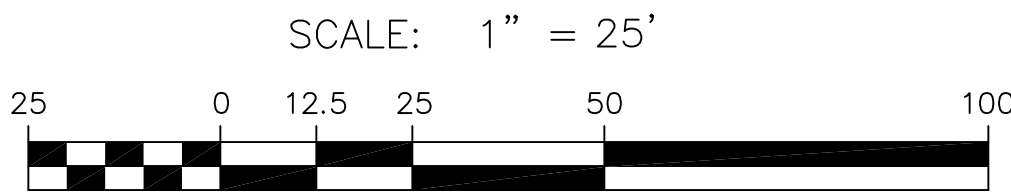
(E)MAIN PROJECT BUILDING AREA	48,556 SQ. FT.
(E) 577 SHOP BUILDINGS	5,700 SQ. FT.
TOTAL	54,256 SQ. FT.
FLOOR AREA RATIO	.14:1
LOT COVERAGE	14.03%

PROJECT BUILDING IS METAL FRAMED/METAL EXTERIOR WITH WHITE EXTERIOR PAINT AND GREEN TRIM.

PROPERTY BOUNDARY	SETBACK DISTANCE
NORTH	300 FEET
SOUTH	100 FEET
EAST	70 FEET
WEST	153 FEET

LEGEND

- ⊕ EYEWASH STATION
- ⊗ FIRE EXTINGUISHER
- PROPERTY LINE
- - - 6' CHAIN LINK FENCE
- ▨ LANDSCAPE AREAS



TOTAL COMPLIANCE MANAGEMENT 822, 21ST STREET SACRAMENTO, CALIFORNIA 95811 PHONE: (916) 738-1100 FAX: (916) 738-1216		PROJECT SITE PLAN 601 ALADDIN AVE. FOR ALAMEDA COUNTY INDUSTRIES 610 ALADDIN AVE. SAN LEANDRO, CALIFORNIA 94577	FIGURE 1
SCALE: 1" = 25'	SCHEMATIC 1703.32 SLD/ACI		
DATE: MARCH 30, 2017	FILE NAME: ACI EXPANSION	DRAWN BY: HSE	CHECKED BY: 03/28/17