

Refer to General Note #3

Remove all top soil. The subgrade must be firm and unyielding. Compact if necessary and as required. Backfill with the best available material, aggregate preferred.

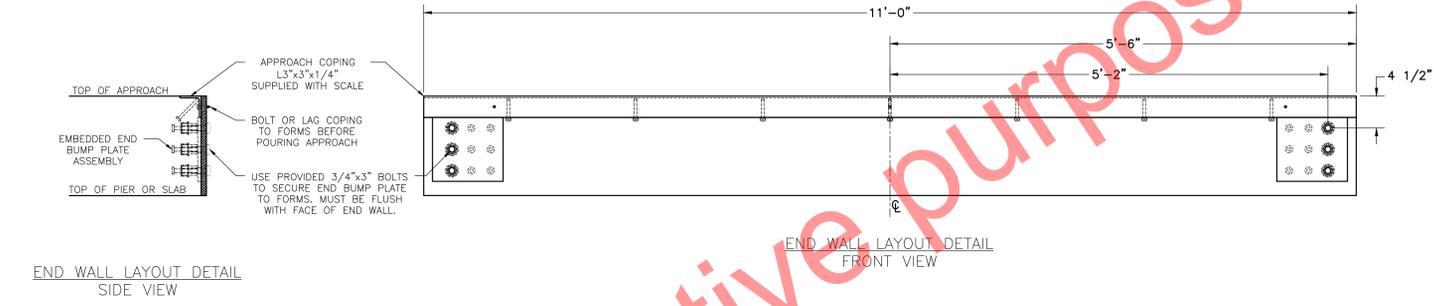
GENERAL NOTES

- Excavation, foundation forms, rebar, and concrete to be furnished by contractor or customer.
- Foundation shown is designed for soils with a minimum bearing capacity of 1500 psf and adequate drainage. If soil conditions do not meet these requirements, adjust foundation or soil as required. The design is adequate for a highway surcharge of 300psf.
- Work from centerlines when erecting forms and placing embedded items. Place anchor bolts within $\pm 1/8"$ of positions indicated in drawing.
- In areas of the country where there is severe freezing, increase the depth of the foundation so that the bottom extends below the frost line, or provide a minimum of 12" free draining granular material to prevent frost heave.
- N.I.S.T. H-44 requires that on the entrance and exit ends of a vehicle scale, there shall be a straight approach that is:
 - At least the width of the platform.
 - The length of at least one-half the length of the platform but not required to be more than 40ft, and
 - Not less than 10ft of any approach adjacent to the platform shall be constructed of concrete or similar durable material to ensure that this portion remains smooth and level and in the same plane as the platform. Any slope in the remaining portion of the approach shall ensure ease of vehicle access, ease for testing purposes, and drainage away from the scale.
- N.I.S.T. H-44 requirements and local weights and measures regulations may require installation parameters somewhat different than illustrated on this plan, particularly in regard to pit depth and approaches. In order to insure compliance, consult the local Fairbanks service office prior to installation.
- Refer to manual for all installation and operation instructions.

CONCRETE AND REINFORCING STEEL NOTES

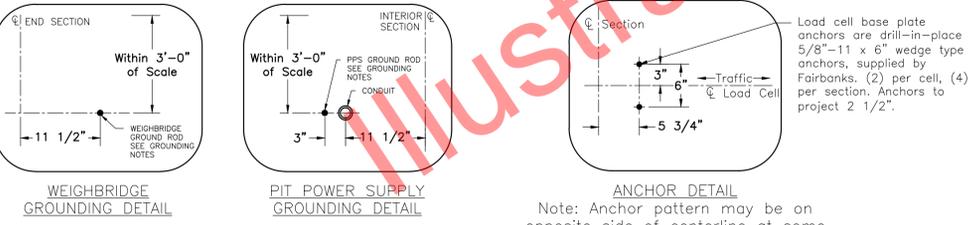
- All concrete material and workmanship to be in accordance with the current American Concrete Institute (ACI) code requirements.
- All concrete to be a minimum of 3500psi at 28 days.
- Reinforcing steel are to be ASTM 615, Grade 60 or equal. Bend bars cold to conform with required details. Rebar shall be free of all mud, debris, cement grout, loose rust, grease and oil that would impair bonding. Space bars properly and tie securely in position before pouring concrete. Tack welding of bars is prohibited.
- Rebar cover:
 - Concrete cast against earth: 3"
 - Formed concrete exposed to earth or weather: 2"
 - Cover at termination end of rebar: 3"
- The top of all load bearing piers must be smooth, flat, level, and in plane with one another in order for load cell plates to bear properly. Vertical rebar for piers may be optionally drilled-and-epoxied in place. Some states require that concrete piers be poured monolithic with the side walls (recommended method).

FOUNDATION REINFORCING SCHEDULE					
ASTM 615 - GRADE 60					
MARK	QTY	SIZE	LENGTH	BENDING	WEIGHT (LBS)
VR1	44	#4	2'-8"	1'-8" 1'-0"	78
HR1	32	#5	10'-6"	10'-6"	350
HR2	88	#4	5'-0"	5'-0"	294
HR3	20	#4	10'-6"	10'-6"	140
MIDSPAN REBAR BETWEEN LOAD CELL SECTION					
MR1	60	#4	10'-6"	10'-6"	421
MR2	66	#4	11'-9"	11'-9"	518
WWR 6x6 D10.0/D10.0 (Grade 60) can be used in place of midspan rebar. Approximately 695sq. ft. required.					
APPROACH REBAR					
AR1	24	#4	10'-6"	10'-6"	168
AR2	22	#4	9'-6"	9'-6"	140
Total Weight					2109



END WALL LAYOUT DETAIL
SIDE VIEW

END WALL LAYOUT DETAIL
FRONT VIEW



WEIGHBRIDGE GROUNDING DETAIL

PIT POWER SUPPLY GROUNDING DETAIL

ANCHOR DETAIL

Note: Anchor pattern may be on opposite side of centerline at some sections. Consult plan view for orientation

FOUNDATION CONCRETE	
3500 PSI MINIMUM	
LOCATION	QTY (CU. YDS)
SLAB	29.50
APPROACHES	6.00
TOTAL CONCRETE	35.50
MINIMUM EXCAVATION	59.00

GROUNDING AND ELECTRICAL NOTES:

- Install (2) 3/4" x 8'-0" long ground rods to project 4" Tie ground rods to slab rebar. Two ground rods are supplied with scale:
 - One for grounding Intalox Power Supply. Position the ground rod to match the chosen location for the PPS. The PPS may be located at any section.
 - One for grounding scale weighbridge. Place within 3ft of a main beam, at any convenient location. The power supply ground must be separate from weighbridge ground, and should be at least 4'-0" from power supply ground.
- Install minimum 1 1/2" conduit for cable from junction box to scale house. Suitable conduit for low voltage conductor shielded cable must pass through the wall at any point above pier tops that is convenient. Conduit to extend a minimum of 2" beyond the surface. Conduit is not supplied from the factory.
- If alternating current (AC) is required near the scale, it shall not run closer than 36" in parallel with any load cell or other signal carrying cable.

70" x 10" Tolon HV Steel Deck Low Profile 60,000lb CLC, 100ton Capacity

FAIRBANKS SCALES

SCALE: NTS DRAWN: CHECKED: SHEET: 1 OF 1 DATE: APPROVED: DRAWING NUMBER: ILLUSTRATIVE - FND

MODEL: PLT-6021-090-A10-070