BINDING EDGE

ABBREVIATIONS

#	NUMBER
Ø	DIAMETER
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CONCRETE PIPE OR ASPHALTIC CONCRETE PAVEMENT
ADDL	ADDITIONAL
ADJ	ADJACENT
ADMIN	ADMINISTRATION
AGGR	AGGREGATE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APP or APPVD	APPROVED
APPROX	APPROXIMATE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION
AREMA	AMERICAN RAILWAY ENGINEERING MAINTENANCE OF WAY ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATB	ASHPALT TREATED BASE
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFO	BURIED FIBER OPTIC
BLDG	BUILDING
BM	BENCH MARK or BEAM
BMP or BMP'S	BEST MANAGEMENT PRACTICES
BNDRY	BOUNDARY
BNSF	BURLINGTON NORTHERN SANTA FE
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRG	BEARING
BRZ	BRONZE
BTW or BTWN	BETWEEN
BV	BALL VALVE
CY	CONTAINER YARD OR CUBIC YARD
C/L	CENTERLINE
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CC	CENTER TO CENTER
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CL	CENTER LINE or CLASS
CLF	CHAIN LINK FENCE
CLR	CLEAR or CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COT	CITY OF TACOMA
CONC	CONCRETE
CONT	CONTINUE or CONTINUOUS
CONT'D	CONTINUED
COORD	COORDINATE
COUP	COUPLING
CPP	CORRUGATED PLASTIC PIPE
CPT	CONE PENETROMETER TEST
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSBC	CRUSHED SURFACING BASE COURSE
CSG	CASING
CSTC	CRUSHED SURFACING TOP COURSE
CTB	CEMENT TREATED BASE
CTR	CENTER
Dc	DEGREE OF CURVATURE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST or EASTING
EA	EACH
EG	EXISTING GRADE
EL or ELEV ELEC or ELECT	ELEVATION ELECTRICAL
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EQ	EQUAL
ES	ELECTRICAL SUBSTATION or EACH SIDE
ETC	ET CETERA
EX or EXIST EXP	EXISTING
JT	EXPANSION JOINT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOW LINE OR FLANGE
FLGD	FLANGED JOINT
FM	FORCE MAIN
FND	FOUNDATION
FS	FINISHED SURFACE
FSM	FIRE SERVICE METER
FT	FOOT, FEET
G	GAS
GIS	GEOGRAPHIC INFORMATION SYSTEM
GPS	GLOBAL POSITIONING SYSTEM
GV	GATE VALVE
H or HORIZ	HORIZONTAL
HAZMAT	HAZARDOUS MATERIALS
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORZ	HORIZONTAL
HP	HIGH POINT
HSSD	HIGH STRENGTH STORM DRAIN
HT	HEIGHT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INCL	INCLUDE
IR	INDUSTRIAL REMEDIATION
JB	JUNCTION BOX
JS	JUNCTION STRUCTURE
JT	JOINT
KIP(S)	KILOPOUND(S)
L	LENGTH
LAT	LATERAL
LB	POUND
LF	LINEAL FOOT
LH	LEFT HAND
LIN	LINEAL or LINEAR
LOL	LAYOUT LINE
LT	LIGHT
MAX	MAXIMUM
MEP	MATCH EX PAVEMENT
MH	MANHOLE
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MSP	MANUAL OF STANDARD PRACTICE
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH or NORTHING
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OVH	OVERHEAD
OHWL	ORDINARY HIGH WATER LINE
P/L or PL	PROPERTY LINE
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PERFORMANCE GRADE
PI	POINT OF INTERSECTION
PJ	PUSH-ON JOINT
PNT	POINT
POT	PORT OF TACOMA
PP	POWER POLE
PR	PRESSURE RATING
PRESS RED	PRESSURE REDUCER
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PRVS	PRESSURE RELIEF VALVE
PSF	POUNDS PER SQUARE FOOT
PS	POINT OF SWITCH
PSI	POUNDS PER SQUARE INCH
PT	POINT or POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RIDGE OR RADIUS
R/W OR ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCE OR REINFORCING
REQ'D	REQUIRED
RH	RIGHT HAND
RP	RADIUS POINT
RR	RAILROAD
RT.	RIGHT
S	SLOPE OR SOUTH
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SDMH	STORM DRAIN MANHOLE
SE	SOUTH-EAST
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SQFT	SQUARE FEET
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL
SW	SOUTHWEST
SYM	SYMMETRIC or SYMBOL
T/R or TOR	TOP OF RAIL
TB	THRUST BLOCK
TBM	TEMPORARY BENCH MARK
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TF	TRACK FEET
T&B	TOP AND BOTTOM
TO	TURNOUT
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TOP	TOP OF PIPE
TOR	TOP OF RAIL
TPU	TACOMA PUBLIC UTILITIES
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UV	ULTRA-VIOLET
V	VERTICAL
VAR	VARIABLE or VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER, WEST, WIDTH
W/	WITH
W/O	WITHOUT
WHS	WELDED HEADED STUD
WM	WATER METER
WWAY	WALKWAY
XO	CROSSOVER
XS	EXTRA STRONG

GENERAL NOTES:

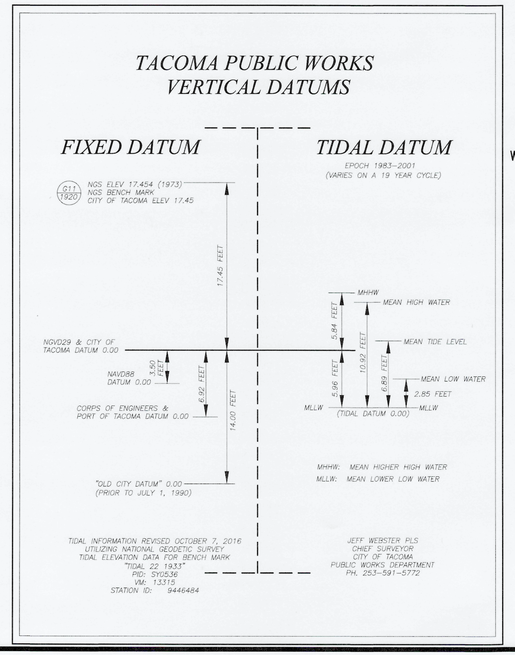
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, CITY OF TACOMA STANDARDS, AREMA, TACOMA RAIL, AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS 2022.
2. BEFORE ANY CONSTRUCTION MAY BEGIN, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE PORT AND CITY OF TACOMA PERMIT DEPARTMENT AND INSPECTION STAFF.
3. A COPY OF THESE APPROVED PLANS AND ALL AMENDMENTS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS IF NECESSARY BEFORE INITIATING OFF-SITE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, SPOTTERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND OF THE CONTRACTOR. ANY WORK WITHIN THE TRAVELLED RIGHT OF WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING TEMPORARY TRAFFIC CONTROL PLANS, PERMITTING, AND COORDINATION TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL ACCORDING TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND WSDOT STANDARD PLANS.
6. PRIOR TO THE START OF EXCAVATION, THE CONTRACTOR SHALL CALL 1-800-424-555 FOR UTILITY LOCATES AND COORDINATE UTILITY WORK WITH THE UTILITY SERVICE PROVIDER.
7. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
8. TACOMA WATER FACILITIES MUST REMAIN ACCESSIBLE AT ALL TIMES. ANY DAMAGES TO TACOMA WATER FACILITIES WILL BE REPAIRED BY TACOMA WATER CREWS AT THE EXPENSE OF THE CONTRACTOR.
9. CONTRACTOR SHALL OBTAIN SIDE SEWER CONNECTION PERMITS THROUGH CITY OF TACOMA SITE DEVELOPMENT. CONTACT (253) 591-5760 OR TACOMAPERMITS.ORG. SEPARATE PERMITS ARE REQUIRED FOR EACH CONNECTION.
10. CHANGES OR REVISIONS TO THE ORIGINALLY APPROVED PERMIT SUBMITTAL SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION.
11. THE APPLICANT SHALL SUBMIT RECORD DRAWINGS ("AS-BUILTS") TO THE CITY WHEN THE PROJECT IS COMPLETED.
12. THE ENGINEER OF RECORD SHALL PROVIDE AN ENGINEER'S CERTIFICATION TO THE CITY OF TACOMA AFTER FACILITY INSTALLATION AND PRIOR TO PERMIT FINAL INSPECTION AND/OR CLOSEOUT.
13. FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UN-WORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS.

HORIZONTAL DATUM:

1. WASHINGTON STATE COORDINATE SYSTEM, SOUTH ZONE, NAD83-2011. REFER TO SHEETS G1.3-G1.5 FOR ADDITIONAL INFORMATION.

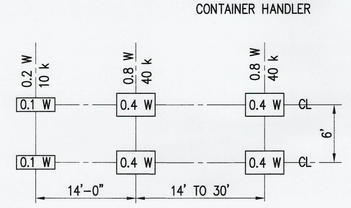
VERTICAL DATUM:

1. PORT OF TACOMA - MLLW 1983-2001 EPOCH REFER TO SHEETS G1.3-G1.5 FOR MONUMENT LOCATIONS AND ADDITIONAL INFORMATION.



DESIGN LOADING CRITERIA:

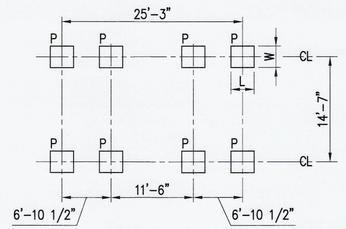
CONCENTRATED LIVE LOADS:
HS25 TRUCK
STRADDLE CARRIER
CONTAINER HANDLER



W = COMBINED WEIGHT ON THE FIRST TWO AXLES WHICH IS THE SAME AS FOR THE CORRESPONDING H TRUCK.

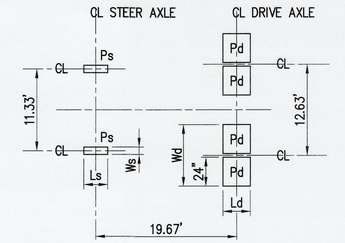
HS25 TRUCK = (1.25 x HS20)

NOTE: ADD 10% IMPACT TO ABOVE LOADS



P = 30.4 k (INCLUDES 10% IMPACT)
W = 10.24"
L = 20.24"
q = 145 psi

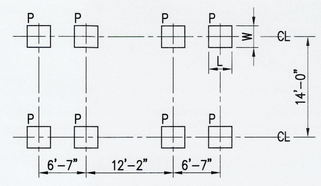
KALMAR CSC 340 STRADDLE CARRIER



Ps = 16 k (INCLUDES 10% IMPACT)
Ws = 20"
Ls = 6.1"
qs = 131 psi

Pd = 62 k (INCLUDES 10% IMPACT)
Wd = 51"
Ld = 23"
qd = 112 psi

TAYLOR "BIG RED" THDC-976 CONTAINER HANDLER



P = 35 k (INCLUDES 10% IMPACT)
W = 18"
L = 19.5"
q = 100 psi

NOELL SC544 STRADDLE CARRIER

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-3841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 | Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

MADE KLINSLEY WASHINGTON REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON 12/4/23

TJH	11/21/2023		
CHECKED BY	DATE		
SEK	11/21/2023		
PROJ. ENGR	DATE		

APPROVED: 12/13/23
DIRECTOR ENG. DATE

PRINTED BY: thelbig Nov 21, 2023
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA WA, 98401-1837

DRAWING SCALE: AS SHOWN

EB-1 PAVEMENT AND RESTROOM BUILDINGS

GENERAL NOTES AND ABBREVIATIONS

TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	
DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#		
PARCEL: 0321354035			

6695

G1.1

2 OF 26

CONT/CONS:	071907
M. ID:	201105.01
PHASE:	BID SET

PORT OF TACOMA FILE: X:\TAC\2020\2000070 POT EB1 Paving & Restroom\KPFF Design\Drawings\GENERAL NOTES - G1.1