ABBREVIATIONS

& L @ □ # (E) €	AND ANGLE AT DIAMETER POUND OR NUMBER EXISTING CENTERLINE	GA GALV GB GL GLB GND GR GRT'D
A.B. ABV AC ACT ACU ADJ AFF ALT ALUM APPROX	ANCHOR BOLT ABOVE AIR CONDITIONING ACOUSTIC CEILING TILE AIR CONDITION UNIT ADJUSTABLE ABOVE FINISHED FLOOR ALTERNATE ALUMINUM APPROXIMATELY	HB HC HCMU HDWD HDWE HT HM HR HORIZ
BLDG BLW B.O.	BUILDING BELOW BOTTOM OF	I.D. Insul Int
CB CBB CEM	CATCH BASIN CEMENT BACKER BOARD CEMENT	JAN JT
CJ CL CLG CLR CO COL CONC COND CONT	CONTROL JOINT CENTERLINE CEILING CLEAR CLEAN OUT COLUMN CONCRETE CONDITION CONTINUOUS	KIT LAB LAM LAV LKR LOC LT LVL
CPT CT DBL DEMO DF DIA DIFF DIM DISP DN DR DS DTL DW	CARPET CERAMIC TILE DOUBLE DEMOLISH DRINKING FOUNTAIN DIAMETER DIFFUSER DIMENSION DISPENSER DOWN DOOR DOWNSPOUT DETAIL DISHWASHER	M MATL MAX MC MECH MER MIR MIR MIR MISC MH MO MTD MTL MULL
E EA ECS EF EJ EL ELEC ELEV	EAST EACH EXTERIOR COMPOSITE SIDING EXHAUST FAN EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR	N NA NIC NOM NTS NR
EMERG EQ EXP FBP	EMERGENCY EQUAL EXPANSION FIBER BOARD PANEL	OBS O.C. O.D. OFF OPNG
FD FE FF FN FIN FLR F.O. FOIC FOIO FR FS	FLOOR DRAIN FIRE EXTINGUISHER FINISH FLOOR FIRE HYDRANT FINISH FLOOR FACE OF FURNISHED BY OWNER, INSTALL BY CONTRACTOR FURNISHED BY OWNER INSTALL BY OWNER FIRE RESISTANT FLOOR SINK	OPP PC PL PLAS PLY P.LAM PNT POC PR PSL PT PTN

GAUGE GALVANIZED GRAB BAR GLASS GLU-LAM BEAM GROUND GRADE GROUTED GYPSUM WALL BOARD
HOSE BIBB HANDICAP HOLLOW CLAY MASONRY UNIT HARDWOOD HARDWARE HEIGHT HOLLOW METAL HOUR HORIZONTAL
INSIDE DIAMETER INSULATION INTERIOR
JANITOR JOINT
KITCHEN
LABORATORY LAMINATE LAVATORY LOCKER LOCATE LIGHT LAMINATED VENEER LUMBER
MEN'S MATERIAL MAXIMUM MEDICINE CABINET MECHANICAL MEMBRANE MANUFACTURER MINIMUM MIRROR MISCELLANEOUS MANHOLE MASONRY OPENING MOUNTED METAL MULLION
NORTH NOT APPLICABLE NOT IN CONTRACT NOMINAL NOT TO SCALE NOT RATED
OVERALL OBSCURE ON CENTER OUTSIDE DIAMETER OFFICE OPENING OPPOSITE
PRECAST CONCRETE PLATE PLASTER PLYWOOD PLASTIC LAMINATE PAINT POINT OF CONNECTION PAIR
PARALLEL STRAND LUMBER

UI .	QUARNY TILE
R or RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED
RELOC	RELOCATE
REQ'D	REQUIRED
RES	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RV	ROOF VENT
RL	RAIN WATER LEADER
S SA SCHED SECT SG SHT SIM SPEC SQ S.S. STA STD STL STN STDR STRUCT SOG SUSP SYM	SOUTH SMOKE ALARM SOLID CORE SCHEDULE SECTION SAFETY GLASS SHEET SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STATION STANDARD STEEL STAIN STORAGE STRUCTURE SLAB ON GRADE SUSPENDED SYMMETRICAL
T, TMP	TEMPERED
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TER	TERRAZZO
THK	THICK
T.O.	TOP OF
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WEST
W/	WITH
WD	WATER CLOSET
WF	WOOD
W/O	WIDE FLANGE
WOM	WITHOUT
WM	WALK OFF MAT
WP	WOMEN'S
WR	WATERPROOFING
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT

PLAN 1

1 A101	BLDG SECTION
1 A101 1	EXTERIOR ELEVATION
1 A101 1	INTERIOR ELEVATION
1 A101 SIM	DETAIL
	NORTH ARROW
0	GRID HEAD
ROOM NAME	ROOM TAG
(1i)	WINDOW TAG
11	WALL TAG
	DOOR TAG
	KEY NOTE
	ELEVATION NOTE
XXX T.O. XXX	SPOT ELEVATION
	CENTERLINE
	PROPERTY LINE
XXX_XXX	FLOOR TRANSITION
	REVISION
	BREAKLINE
\oplus	DIMENSION POINT
	DETAIL BORDER

DRAFTING SYMBOLS

WALL SECTION

MATERIAL SYMBOLS





PRESSURE TREATED

PARTITION









KCHA MARDI GRAS - WASTE LINE





GENERAL NOTES

- 1. WHERE CONFLICTS OCCUR, THE SCOPE OF WORK TAKES PRECEDENCE OVER SPECIFICATIONS, AND SPECIFICATIONS TAKE PRECEDENCE OVER THE DRAWINGS 2. MATERIALS, ASSEMBLIES AND NOTED ITEMS ARE NEW UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR SHALL VERIFY CONDITIONS. NOTIFY THE OWNER OF ANY CONDITIONS INCONSISTENT WITH THE INTENT OF THE DRAWINGS PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED. 4. PIPING IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, FITTINGS, AND OFFSETS AS REQUIRED TO AVOID WORK OF EXISTING
- CONDITIONS AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.
- PROTECT ALL EXISTING LANDSCAPING 6. BUILDING OCCUPIED DURING CONSTRUCTION.
- 7. DO NOT DISCONNECT POWER, DATA OR CABLE DURING CONSTRUCTION. COORDINATE REQUIRED SHUTDOWNS WITH OWNER.
- 1. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, WHICH INCLUDE THE MOST CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS, INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FIRE CODE (IFC), AND WASHINGTON STATE ENERGY CODE (WEC).
- 2. PER IEBC 503.1, ALL WORK IS CLASSIFIED AS AN ALTERATION LEVEL 1 REMOVAL OR REPLACEMENT OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE. PER IEBC 701.2, AN EXISTING BUILDING SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITION.

HAZMAT

1. THE CONTRACTOR WILL SUSPEND WORK IMMEDIATELY AND NOTIFY THE OWNER IF MATERIALS SUSPECTED OF BEING HAZARDOUS, AND NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED IN THE COURSE OF THE CONTRACTOR'S WORK.

DEMOLITION:

- 1. WHERE ITEMS ARE INDICATED ON PLANS TO BE DEMOLISHED, IT SHALL MEAN THE COMPLETE REMOVAL AND DISPOSAL OF THE ITEM INDICATED UNLESS OTHERWISE NOTED. "REMOVE" MEANS TO COMPLETELY AND PERMANENTLY REMOVE FROM THE PROJECT.
- 2. PATCH AND REPAIR TO "LIKE NEW" CONDITION ALL EXISTING SURFACES AFFECTED BY DEMOLITION WORK. 3. CONTRACTOR IS RESPONSIBLE FOR REVIEW AND COORDINATION OF THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CUTTING AND PATCHING WORK.

DIMENSIONS:

- 1. DO NOT SCALE DRAWINGS.
- 2. VERIFY DIMENSIONS SHOWN ON DRAWINGS. USE ONLY DIMENSIONS INDICATED. PRIOR TO STARTING OR CONTINUING WORK, NOTIFY ARCHITECT OF DISCREPANCIES OR CONDITIONS INCONSISTENT WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
- 3. DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF STUD, UNLESS OTHERWISE NOTED.
- 4. FINISHED SURFACE OF INFILL OR EXTENSIONS OF EXISTING PARTITIONS SHALL ALIGN WITH ADJACENT EXISTING SURFACES UNLESS OTHERWISE NOTED.
- 5. VERTICAL DIMENSIONS ARE MEASURED FROM STRUCTURAL SLAB, TOP OF STEEL OR TOP OF SHEATHING, UNLESS NOTED OTHERWISE.

COORDINATION:

1. COORDINATE ALL OPERATIONS WITH OWNER, SUCH AS AREAS USED FOR MATERIAL STORAGE, ACCESS TO AND FROM THE SITE, TIMING OF WORK AND REQUIREMENTS OF NOISE ORDINANCE. INSTALL DUST AND NOISE BARRIERS AS REQUIRED TO PROTECT EXISTING ADJACENT BUILDINGS AND OCCUPANTS AND TO MAINTAIN AN ENVIRONMENT SUITABLE TO PERMIT CONTINUED OCCUPANCY OF SUBJECT AND ADJACENT BUILDINGS.

PROJECT INFORMATION

PROJECT OWNER: KING COUNTY HOUSING AUTHORITY

PROJECT MANAGER: CARL FRANKEL TEL: 206.574.1249 EMAIL: carlf@kcha.org

PROJECT ADDRESS: 24009 104TH AVE SE KENT, WA 98030

SCOPE DESCRIPTION: SEWER PIPE MAINTENANCE, INCLUDING REPLACING EXISTING WASTE PIPING SYSTEM AND INSTALLING A CURED IN PLACE (CIPP) LINER BETWEEN THE BUILDING AND THE MAIN LINE, AND CRAWLSPACE ACCESS DOORS AT THE BUILDING EXTERIOR.

ZONING ANALYSIS

PARCEL NUMBER: 783080-0035

LEGAL DESCRIPTION: SMITHS R 0 ORCHARD TRS TO KENT BEG SW COR OF SD TR 4 TH NLY ALG WLY LN OF SD TR 314.75 FT TO NLY LN OF S 1/2 OF SD TR TH ELY ALG SD NLY LN 223.68 FT TH S 02-16-10 W 110.24 FT TH N 87-57-52 W 20 FT TH S 02-16-10 W 174.51 FT TH S 89-57-44 E 100 FT TO WLY MGN OF 104TH AVE SE TH SLY ALG SD WLY MGN 30 FT TO SLY LN OF SD TR TH WLY ALG SD SLY LN 303.16 FT TO POB LESS ST

LOT AREA: 66,211 SF / 1.52 ACRES

ZONE: MR-M

CURRENT USE: MULTIFAMILY HOUSING

YEAR BUILT: 1969

(E) BLDG AREA: 39,306 SF GROSS / 30,129F NET STORIES: 3

PARKING QUANTITY: NO CHANGE

REQUIRED SETBACKS: NO CHANGE

APPLICABLE CODES

2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE

DESIGN TEAM

ARCHITECT: SHKS ARCHITECTS 1050 NORTH 38TH ST SEATTLE, WA 98103 TEL: 206.675.9151 CONTACT: LEVI JETTE EMAIL: levij@shksarchitects.com

STRUCTURAL ENGINEER: PCS ENGINEERING 1011 WESTERN AVE #810 SEATTLE, WA 98104 TEL: 206.292.5076 CONTACT: DAN TAPPEL EMAIL: dtappel@pcs-structural.com

SHEET INDEX

A0.0	COVER SHEET
A1.0	SITE PLAN
A2.0	FLOOR PLAN
A2.1	FLOOR PLAN
A3.0	ELEVATIONS
A4.0	DETAILS

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- рн: 206.675.9151 www.shksarchitects.com



KCHA MARDI GRAS WASTE LINES

CD Set

24009 104TH AVE SE - KENT V A 98030

KENT,	WA	ć

Drawn by: Checked: NIM 7/14/2021 Date: Scale: As indicated

 Revisions: Date <u>No.</u>

Remarks

COVER SHEET



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PLAN LEGEND:

	(E) WASTE LINE, INSTALL CURED-IN-PLACE LINER BETWEEN BUILDING AND MAIN LINE
S	(E) SANITARY SEWER
SD	(E) STORM DRAIN
—Х—	(E) FENCE

- **<u>GENERAL NOTES</u>** 1. PROTECT EXISTING TREES AND LANDSCAPING. NO EXCAVATION OF UNDISTURBED SOIL.
- 2. FIELD VERIFY EXISTING UTILTIES AND COORDINATE WITH OWNER FOR LEAST DISTURBANCE IN AFFECTED AREAS. PROPOSE ALTERNATE ROUTING AT OWNER'S OPTION.
- 3. PIPING IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, FITTINGS, AND OFFSETS AS REQUIRED TO AVOID WORK OF EXISTING CONDITIONS AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION. 4. PROVIDE CLEAN OUTS WITH UNOBSTRUCTED ACCESS, FIELD VERIFY LOCATIONS WITH OWNER.
- 5. REMOVE & REPLACE INSULATION AND VAPOR BARRIER DISTURBED DURING CONSTRUCTION.

KEYNOTE LEGEND

MARK KEYNOTE TEXT

- 22.1 INSTALL CURED IN PLACE LINER AT (E) 4" CAST IRON WASTE LINE BETWEEN CRAWLSPACE AND (E) SANITARY SEWER
- 22.9 INSTALL DOUBLE SWEEP CLEANOUT AT BUILDING EXTERIOR, COORDINATE LOCATION W/ OWNER, REF 1/A4.0

King County Housing Authority

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WASTE	LINES

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- TYP UNIT SCOPE AT FIRST FLOOR

REMOVE & REPLACE WASTE LINE IN BUILDING CRAWLSPACE

- 2. FIELD VERIFY EXISTING UTILTIES AND COORDINATE WITH OWNER FOR LEAST DISTURBANCE IN AFFECTED AREAS. PROPOSE ALTERNATE ROUTING AT OWNER'S OPTION.
- 3. PIPING IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, FITTINGS, AND
- OFFSETS AS REQUIRED TO AVOID WORK OF EXISTING CONDITIONS AND AS REQUIRED FOR A CODE 4. PROVIDE CLEAN OUTS WITH UNOBSTRUCTED ACCESS, FIELD VERIFY LOCATIONS WITH OWNER.
- 5. REMOVE & REPLACE INSULATION AND VAPOR BARRIER DISTURBED DURING CONSTRUCTION.

- 2.1 REMOVE (E) CONC STEM WALL TO ACCOMODATE PROPOSED OPENING, 25 3/4" x 37 3/4" RO, 3.1 CUT CONC SLAB TO ACCESS PLUMBING, CUT TO NEAREST (E) JOINT LINES, PATCH TO
- LIKE-NEW CONDITION AND DOWEL TO (E) PAVING TO REMAIN,
- 5.1 METAL WINDOW WELL, 42" W x 30" PROJECTION, W/ METAL GRATE COVER AT OPENING 8.1 24" x 36" PREFAB MTL ACCESS PANEL IN OPENING, LOCKABLE, REF 2 / A4.0
- 22.1 INSTALL CURED IN PLACE LINER AT (E) 4" CAST IRON WASTE LINE BETWEEN CRAWLSPACE 22.2 REPLACE (E) CAST IRON WASTE LINE W/ ABS WASTE LINE IN CRAWLSPACE, MATCH (E) SIZES
- 22.3 REPLACE VANITY WASTE LINE BELOW FLOOR AND RECONNECT TO (E) SINK 22.4 REPLACE TOILET WASTE LINE BELOW FLOOR. REPLACE TOILET FLANGE, GASKET, AND
- 22.5 REPLACE BATH WASTE LINE BELOW FLOOR, REMOVE AND REPLACE BATH FLANGE
- 22.6 REPLACE KITCHEN SINK WASTE LINE BELOW FLOOR AND RECONNECT TO (E) SINK
- 22.9 INSTALL DOUBLE SWEEP CLEANOUT AT BUILDING EXTERIOR, COORDINATE LOCATION W/
- 22.10 RECONNECT TO (E) URINAL TO WASTE LINE BELOW FLOOR



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(E) 2x4 FRAMING AT CRAWLSPACE INTERIOR, TYP

- (E) 10" CONC FOUNDATION, TYP

INSTALL CURED-IN-PLACE LINER AT (E) WASTE LINE BETWEEN BUILDING AND MAIN LINE

REMOVE & REPLACE WASTE LINE IN BUILDING CRAWLSPACE

- GENERAL NOTES 1. PROTECT EXISTING TREES AND LANDSCAPING. NO EXCAVATION OF UNDISTURBED SOIL.
- 2. FIELD VERIFY EXISTING UTILTIES AND COORDINATE WITH OWNER FOR LEAST DISTURBANCE IN AFFECTED AREAS. PROPOSE ALTERNATE ROUTING AT OWNER'S OPTION.
- 3. PIPING IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, FITTINGS, AND A HIMA IS DIAGNAMMENTO. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, FITTINGS, AND OFFSETS AS REQUIRED TO AVOID WORK OF EXISTING CONDITIONS AND AS REQUIRED FOR A CODE COMPLIANT INSTALLATION.
 PROVIDE CLEAN OUTS WITH UNOBSTRUCTED ACCESS, FIELD VERIFY LOCATIONS WITH OWNER.

MARK	KEYNOTE TEXT
2.1	REMOVE (E) CONC STEM WALL TO ACCOMODATE PROPOSED OPENING, 25 3/4" x 37 3/4" RO, VIF, REF 2/A4.0
3.1	CUT CONC SLAB TO ACCESS PLUMBING, CUT TO NEAREST (E) JOINT LINES, PATCH TO LIKE-NEW CONDITION AND DOWEL TO (E) PAVING TO REMAIN,
5.1	METAL WINDOW WELL, 42" W x 30" PROJECTION, W/ METAL GRATE COVER AT OPENING
8.1	24" x 36" PREFAB MTL ACCESS PANEL IN OPENING, LOCKABLE, REF 2 / A4.0
22.1	INSTALL CURED IN PLACE LINER AT (E) 4" CAST IRON WASTE LINE BETWEEN CRAWLSPACE AND (E) SANITARY SEWER
22.2	REPLACE (E) CAST IRON WASTE LINE W/ ABS WASTE LINE IN CRAWLSPACE, MATCH (E) SIZES AND LOCATIONS
22.7	INSTALL CLEAN OUT IN CRAWLSPACE
22.8	INSTALL CLEAN OUT IN BASEMENT
22.9	INSTALL DOUBLE SWEEP CLEANOUT AT BUILDING EXTERIOR, COORDINATE LOCATION W/ OWNER, REF 1/A4.0
22.11	REPLACE (E) CAST IRON WASTE LINE W/ ABS WASTE LINE IN BASEMENT, MATCH (E) SIZES AND LOCATIONS

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		Kina County
_		Housing
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PHOTO 2. PROPOSED CRAWLSPACE ACCESS



PHOTO 3. PROPOSED CRAWLSPACE ACCESS



PHOTO 5. (E) CRAWLSPACE



PHOTO 4. (E) CONCRETE AT PROPOSED DOUBLE SWEEP



PHOTO 6. (E) CRAWLSPACE









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	 		<u> </u>	<u>14 #1</u>		3	ROOF
Ī							
						(E) BRICK FACADE, TYP	20' - 0" 🌱
							SECOND FLOOR
							10' - 0" 🔶
							FIRST FLOOR

ROOF 📥	7	<u>, îî aaa f</u>			<u> </u>		
;0'-0" Y	;						
LOOR	THIRD	8.1					
:0' - 0" 🌱	2	(5.1)					
⁻ L <u>OOR</u>	SECOND		\square				
0'-0"							
	FIRST	- РНОТО 3					
U							



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- <u>General Notes</u> 1. Protect existing trees and landscaping. No excavation of undisturbed soil. 2. Field verify existing utilties and coordinate with owner for least disturbance in
- AFFECTED AREAS. PROPOSE ALTERNATE ROUTING AT OWNER'S OPTION. 3. PIPING IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING WASTE PIPING.
- 4. PROVIDE CLEAN OUTS WITH UNOBSTRUCTED ACCESS, FIELD VERIFY LOCATIONS WITH OWNER.
- 5. REMOVE & REPLACE INSULATION AND VAPOR BARRIER DISTURBED DURING CONSTRUCTION.

KEYNOTE LEGEND

MARK KEYNOTE TEXT

- 2.1 REMOVE (E) CONC STEM WALL TO ACCOMODATE PROPOSED OPENING, 25 3/4" x 37 3/4" RO, VIF, REF 2/A4.0
- 5.1 METAL WINDOW WELL, 42" W x 30" PROJECTION, W/ METAL GRATE COVER AT OPENING 8.1 24" x 36" PREFAB MTL ACCESS PANEL IN OPENING, LOCKABLE, REF 2 / A4.0

KCHA MARDI GRAS

King County Housing Authority

WASTE LINES

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7/14/2021

1 1/2" = 1'-0"

DETAILS

Remarks

LJ

NM



ALL FITTINGS SHALL BE GASKETED
CLEANOUTS TO BE SAME DIAMETER (D) AS SERVICE LINE

3

DOUBLE SWEEP CLEANOUT DETAIL (ELEVATION)



Seattle Tacoma Portland 1011 Western Avenue, Suite 810 | Seattle, WA 98104 | 206.292.5076 1250 Pacific Avenue, Suite 701 | Tacoma, WA 98402 | 253.383.2797 101 SW Main Street, Suite 280 | Portland, OR 97204 | 503.232.3746

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STRUCTURAL CALCULATIONS

FOR

KCHA MARDI GRAS WASTE LINES 24009 104th AVE SE KENT, WASHINGTON

PREPARED BY PCS STRUCTURAL SOLUTIONS



MARCH 22, 2021 20-060.03

KCHA MAEDI GRAS Job No:. Project: _ Name: Sheet Subject: Structural Solutions Originating Office: Seattle Tacoma Portland Date: DESIGN LOADS DEAD LOAD PD = (20 psf ROOF 20psf FLOORS (15psf Lutrus + 40psf VENEER SNOW 6A0 Ps = 25psf LIVE LOAD PL = S40psf TypicAL (60psf BALCONIES 1011 Western Avenue, Suite 810 · Seattle, WA 98104 · tel: 206.292.5076 Seattle www.pcs-structural.com 1250 Pacific Avenue, Suite 701 - Tacoma, WA 98402 - tel: 253.383.2797 101 SW Main Street, Suite 280 - Portland, OR 97204 - tel: 503.232.3746 Tacoma Portland

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KCHA MARDI ERAS Project: _ Job No: DUTI Subject: Sheet Name[•] 9/21 Structural Solutions Originating Office: Seattle Tacoma Portland Date DETERMINE LOADS ROOF/FURS ABOVE AT CRAWLSPACE ALLESS OPNG FROM AT WALL WO = 20pst (14.56/2) (4 Firs) + 15pst (306) = 1030 # 4 Ws = Z5psf (14.5FH/2) = 181 #FF W_ = 40pst (14.5FHz) (3 FLRS) = 870 #/4 AT VENEER ARCHING Woman 40ps f (3.25 FHz) = 65 # FH ACTION AT VENEER AT WALL-TRY (2)ZX10 PER ENERCALC DURMA = 0.71 < 1.:04 .: USE (2) ZX10 AT VENEER - TRY LSX3x14 LLV PER ENERCAL DCRMAX = 0,02 ~ .: 0K : Use L5x 3x14 LLV
 Seattle
 1011 Western Avenue, Suite 810 • Seattle, WA 98104 • tel: 206.292.5076

 Tacoma
 1250 Pacific Avenue, Suite 701 • Tacoma, WA 98402 • tel: 253.383.2797

 Portland
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Wood Beam

Lic. # : KW-06002327

DESCRIPTION: Wall Header

CODE REFERENCES

Calculations per NDS 2012, IBC 2012, CBC 2013, ASCE 7-10	
Load Combination Set : ASCE 7-16	

Material Properties

Analysis Method : Allowable Stress Design	Fb +	900.0 psi	E : Modulus of Elasti	city
Load Combination ASCE 7-16	Fb -	900.0 psi	Ebend- xx	1,600.0 ksi
	Fc - Prll	1,350.0 psi	Eminbend - xx	580.0ksi
Wood Species Douglas Fir-Larch	Fc - Perp	625.0 psi		
Wood Grade : No 2	Fv	180.0 psi		
	Ft	575.0 psi	Density	31.210 pcf
			= =	

Beam Bracing : Beam is Fully Braced against lateral-torsional buckling



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Uniform Load : D = 1.	.030, L = 0.870,	S = 0.1810	Tributary Width	= 1.0 ft
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DESIGN SUMMARY					Design OK
Maximum Bending Stress Ratio Section used for this span	=	0.711: 1 Ma 2-2x10	ximum Shear Stress Ratio Section used for this span	=	0.494:1 2-2x10
fb: Actual	=	703.65 psi	fv: Actual	=	88.93 psi
Fb: Allowable	=	990.00psi	Fv: Allowable	=	180.00 psi
Load Combination Location of maximum on span Span # where maximum occurs	= =	+D+L+H 1.625ft Span # 1	Load Combination Location of maximum on span Span # where maximum occurs	= =	+D+L+H 2.491 ft Span # 1
Maximum Deflection Max Downward Transient Deflect Max Upward Transient Deflection Max Downward Total Deflection Max Upward Total Deflection	ction n	0.007 in Ratio = 0.000 in Ratio = 0.015 in Ratio = 0.000 in Ratio =	5620 >=360 0 <360 2573 >=240 0 <240		

Printed: 22 MAR 2021, 8:02AM File: KCHA Mardi Gras Waste Lines.ec6 Software copyright ENERCALC, INC. 1983-2020, Build:12.20.8.17 PCS STRUCTURAL SOLUTIONS

Title Block Line 1 You can change this a using the "Settings" m and then using the "Pr Title Block" selection. Title Block Line 6	rea enu item inting &	Project Title: Engineer: Project ID: Project Descr:	Printed: 10 MAR 2021, 12:21PM
Steel Beam		Software copyright	File: KCHA Mardi Gras Waste Lines.ec6 ENERCALC. INC. 1983-2020. Build: 12.20.8.17
Lic. # : KW-06002327			PCS STRUCTURAL SOLUTIONS
DESCRIPTION:	Veneer Lintel		
CODE REFE	RENCES		
Calculations per A	AISC 360-10, IBC 2012, CBC 2013, ASCE 7-10 n Set : ASCE 7-16		
Material Prope	erties		
Analysis Method : Beam Bracing : Bending Axis :	Allowable Strength Design Beam is Fully Braced against lateral-torsional buckling Major Axis Bending	Fy : Steel Yield : E: Modulus :	36.0 ksi 29,000.0 ksi
Vertical Leg Up	D(0,0.065)		☆
	L5x3x1/ Span = 3.2	4 50 ft	
			1

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added Load for Span Number 1 Varying Uniform Load : D= 0.0->0.0650 k/ft, Extent = 0.0 -->> 1.625 ft, Trib Width = 1.0 ft

Varying Uniform Load : D= 0.0650->0.0 k/ft, Extent = 1.625 -->> 3.250 ft, Trib Width = 1.0 ft

DESIGN SUMMARY			Design OK
Maximum Bending Stress Ratio =	0.017 : 1 Ma	aximum Shear Stress Ratio =	0.003 : 1
Section used for this span	L5x3x1/4	Section used for this span	L5x3x1/4
Ma : Applied	0.057 k-ft	Va : Applied	0.05281 k
Mn / Omega : Allowable	3.315 k-ft	Vn/Omega : Allowable	16.168 k
Load Combination	+D+H	Load Combination	+D+H
Location of maximum on span	1.625ft	Location of maximum on span	0.000 ft
Span # where maximum occurs	Span # 1	Span # where maximum occurs	Span # 1
Maximum Deflection Max Downward Transient Deflection Max Upward Transient Deflection Max Downward Total Deflection Max Upward Total Deflection	0.000 in Ratio = 0.000 in Ratio = 0.001 in Ratio = 0.000 in Ratio =	0 <360 0 <360 54883 >=180 0 <180	

Vertical Reactions			Support notation : Far left is #1	Values in KIPS	
Load Combination	Support 1	Support 2			
Overall MAXimum	0.053	0.053			<u> </u>
Overall MINimum	0.032	0.032			
+D+H	0.053	0.053			
+D+L+H	0.053	0.053			
+D+Lr+H	0.053	0.053			
+D+S+H	0.053	0.053			
+D+0.750Lr+0.750L+H	0.053	0.053			
+D+0.750L+0.750S+H	0.053	0.053			
+D+0.60W+H	0.053	0.053			
+D+0.750Lr+0.750L+0.450W+H	0.053	0.053			
+D+0.750L+0.750S+0.450W+H	0.053	0.053			
+0.60D+0.60W+0.60H	0.032	0.032			
+D+0.70E+0.60H	0.053	0.053			
+D+0.750L+0.750S+0.5250E+H	0.053	0.053			
+0.60D+0.70E+H	0.032	0.032			
D Only	0.053	0.053			
H Only					



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