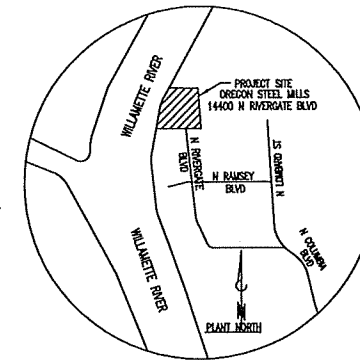


EVRAZ OREGON STEEL MILLS

OREGON STEEL MILLS
14400 N. RIVERGATE BLVD
PORTLAND, OREGON 97203

EOSH STORE ST'K.		VENDOR NUMBER		BILL OF MATERIAL				DRAWING NO. D-87257	
NUMBER		NAME NUMBER		PART NO.	PC. NO.	QTY. REQ'D.	DESCRIPTION	COMMENTS	WEIGHT



DRAWING LIST

D-87257	SITE PLAN, VICINITY MAP AND DRAWING LIST
D-87258	GENERAL NOTES
D-87259	SCHEDULE OF SPECIAL INSPECTIONS
D-87260	ENLARGED PLAN AT CRANEWAY STAIR FOUNDATION
D-87261	STAIR FOUNDATION SECTIONS AND DETAILS
D-87262	ENLARGED CRANEWAY STAIR PLAN
D-87263	STAIR ELEVATIONS AND SECTIONS
D-87264	STAIR AND HANDRAIL DETAILS
D-87265	EXISTING PLATFORM MODIFICATIONS

VICINITY MAP

NTS
TAX ASSESSOR INFORMATION

SITE ADDRESS: 14400 N. RIVERGATE BLVD
SECTION 26, TOWNSHIP 2N RANGE 1W, WM
TAX LOT-22, 25, 27, 71

SURFACE PROCESSING CRANEWAY STAIR ACCESS PROJECT

STRUCTURAL ENGINEER
BRIAN YEE, P.E.
KH2A ENGINEERING, INC.
503-230-9348



4/5/2022

EVRAZ
RELEASED FOR
CONSTRUCTION

DATE: 03/31/2022

SITE PLAN
SCALE: 1"=150'

DO NOT SCALE DRAWING

G	EVRAZ	SCALE	NOTED
	PORTLAND, OREGON	DATE	03/21/22

2	SURFACE PROCESSING CRANEWAY STAIR ACCESS SITE PLAN, VICINITY MAP AND DRAWING LIST
---	--

DRWG. NO.	REV.
D-87257	0

KH₂A ENGINEERING INC.
PORTLAND OREGON

 **KH₂A ENGINEERING INC.**
PORTLAND OREGON
KH₂A JOB NO. 2022 PLOT SCALE: 1800

<u>FINISH SYMBOLS</u>	<u>TOLERANCES</u>
<input checked="" type="checkbox"/> POLISH	(UNLESS OTHERWISE SPECIFIED)
<input checked="" type="checkbox"/> BRUSH	FRACTIONAL DIM. ±
<input checked="" type="checkbox"/> FILE	DECIMAL 1 PLACE DIM. ±
<input checked="" type="checkbox"/> ORNAMENT	DECIMAL 2 PLACE DIM. ±
<input checked="" type="checkbox"/> ROUNE	DECIMAL 3 PLACE DIM. ±
<input checked="" type="checkbox"/> MACHINE CUT	ANGLES ±

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	<p>DRAWL JEC</p>
	<p>CHKD.-JPR BKY</p>
	<p>CODE</p>
	<p> </p>

CRANEWAY STAIR ACCESS SITE PLAN, VICINITY MAP AND DRAWING LIST		
DRWG. NO.	REV.	
D-87257	0	

GENERAL STRUCTURAL NOTES

GENERAL

SCOPE:

THE GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS OR MODIFICATIONS TO THE CONTRARY THE CONTRACTOR SHALL DETERMINE WHICH TYPICAL DETAIL IS MOST APPROPRIATE FOR THE CONSTRUCTION CONDMION.

APPLICABLE SPECIFICATIONS AND CODES:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND OTHER REFERENCED STANDARDS INDICATED IN THE CONTRACT DOCUMENTS THE PROVISIONS OF THE BUILDING CODE SHALL SUPERSEDE THE PLANS AND SPECIFICATIONS EXCEPT WHERE THE PLANS AND SPECIFICATIONS ARE MORE RESTRICTIVE.

DIMENSIONS:

REFER TO CIVIL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS FOR SLEEVES, DUCTS, PIPING, CONDUITS, ETC. NOT SHOWN. ALL OPENINGS IN STRUCTURAL MEMBERS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION SUBMIT DRAWINGS THAT SHOW ACTUAL SIZE AND LOCATION OF PENETRATIONS COORDINATE ALL DIMENSIONS WITH CIVIL AND MECHANICAL DRAWINGS.

STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

EXISTING STRUCTURE:

EXISTING STRUCTURAL DIMENSIONS AND MEMBER SIZES ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION. THE CONTRACTOR SHALL VERIFY THE ACTUAL CONFIGURATION OF EXISTING CONSTRUCTION AND THE CONDITION OF THE STRUCTURE BEFORE BEGINNING WORK. ANY DISCREPANCIES OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION BEFORE BEGINNING WORK. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, EMBEDMENTS, AND OPENINGS NOT SHOWN. REFER TO MECHANICAL AND ELECTRICAL PLANS FOR DUCTS, PIPING, EMBEDMENTS, AND OPENINGS NOT SHOWN.

CONSTRUCTION LOAD:

STRUCTURES HAVE BEEN DESIGNED FOR SELF WEIGHT AND OPERATIONAL LOADS ON THE COMPLETED STRUCTURES ONLY. UNTIL THE STRUCTURES ARE COMPLETE, INCOMPLETE STRUCTURAL ELEMENTS SHALL NOT BE ASSUMED TO BE CAPABLE OF SUPPORTING CONSTRUCTION PHASE LOADING. THE CONTRACTOR SHALL DETERMINE WHERE AND WHEN ADDITIONAL BRACING SHALL BE NEEDED UNTIL THE STRUCTURE HAS REACHED SUFFICIENT DESIGN STRENGTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY NECESSARY BRACING.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DESIGN OF ALL FORM WORK, SCAFFOLDING, RIGGING AND TEMPORARY BRACING OF LIFTING DEVICES OR FITTINGS, INCLUDING TEMPORARY WELDMENTS.

STRUCTURAL DESIGN DATA

CODE REQUIREMENTS:

CONFORM TO THE 2019 OREGON STRUCTURAL SPECIALTY CODE.
(REFERENCED HEREFTER AS OSSC.)

DESIGN CRITERIA:

SNOW LOAD

GROUND SNOW LOAD Pg: 11 PSF
SNOW LOAD IMPORTANCE FACTOR: Is = 1.0

WIND DESIGN DATA

BASIC WIND SPEED (3 SECOND GUST) 97 MPH
WIND EXPOSURE:

EARTHQUAKE DESIGN DATA

SEISMIC IMPORTANCE FACTOR: Ie = 1.0
MAPPED SPECTRAL ACCELERATIONS: Ss = 0.877, S1 = 0.402
SITE CLASS: D
SPECTRAL RESPONSE COEFFICIENTS: SDs = 0.672

EARTHWORK

SEE PROJECT SPECIFICATIONS AND SOILS REPORT.

IF THERE IS NO PROJECT SPECIFICATIONS OR SOILS REPORT FOR THE PROJECT THEN COMPLY WITH THE FOLLOWING:

PROTECT INCOMPLETE WORK FROM FLOODING DURING STORMS OR OTHER CAUSES, THOROUGHLY BRACE OR OTHERWISE PROTECT ALL STRUCTURES NOT STABLE AGAINST UPLIFT DURING CONSTRUCTIONS. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DISTURBANCE OF AND TO PROPERLY DRAIN THE AREAS UPON WHICH CONCRETE IS TO BE POURED. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF THE BASE FOUNDATIONS. CONVEY WATER REMOVED FROM THE EXCAVATIONS AND RAINWATER TO TEMPORARY DRAINAGE DITCHES OR OTHER STRUCTURES OUTSIDE THE EXCAVATION LIMITS FOR THIS STRUCTURE. ENSURE THAT THE WATERING OPERATIONS WILL NOT ADVERSELY AFFECT FOUNDATIONS. MAINTAIN THE EXCAVATION FREE FROM GROUND WATER FOR THE TIME REQUIRED TO COMPLETE THE WORK IN A PROPER WORKMANLIKE MANNER. REMOVE LOOSE OR DISTURBED SOIL FROM THE BOTTOMS OF EXCAVATION. FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED STRUCTURAL FILL.

WHERE COMPACTED AREAS ARE DISTURBED BY CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, OVER EXCAVATE AND BACKFILL WITH 3/4" MINUS CRUSHED ROCK COMPACTED TO MINIMUM OF 98% OF THE DRY DENSITY AS MEASURED BY ASTO T180. AT DISTURBED AREAS WITHIN 3'-0" OF BUILDING FOUNDATIONS COMPACT TO MINIMUM 95% OF THE DRY DENSITY AS MEASURED BY AASTO T180.

A QUALIFIED INSPECTION/TESTING AGENCY SHALL BE ON SITE TO OBSERVE THE PLACEMENT AND TO PERFORM COMPACTION TESTS FOR ALL ENGINEERED FILL WORK.

FOUNDATIONS

- ALL RECOMMENDATIONS OF GEOTECHNICAL ENGINEER SHALL BE FOLLOWED.
- DESIGN OF FOUNDATIONS AND RETAINING SYSTEMS ARE BASED ON THE FOLLOWING VALUES.

ELEMENT	DESIGN VALUE
ALLOWABLE BEARING:	1,500 PSF (NET)
PASSIVE PRESSURE:	150 PSF
FRICTION:	0.30

- BEFORE COMMENCING ANY EARTHWORK, VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES OR STRUCTURES AND DO NOT PERFORM ANY WORK THAT WILL DAMAGE OR INTERFERE WITH UTILITIES OR STRUCTURES.
- FOOTING EXCAVATIONS SHALL BE NEAT AND TRUE, WITH ALL LOOSE MATERIAL AND STANDING WATER REMOVED BEFORE FOOTING CONCRETE IS PLACED.
- PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER SEEPAGE, ETC.
- EARTH FORMS MAY BE USED FOR FOOTINGS ONLY WHERE THE SOIL IS FIRM AND STABLE AND THE CONSIDERED EXPOSED SURFACES. WHERE EARTH FORMS ARE USED, THE EXCAVATION SHALL BE AT LEAST 2" WIDER THAN SPECIFIED.
- BELOW GRADE PITS AND SLUMPS WITH VERTICAL WALLS TO BE FORMED AT BOTH INTERIOR AND EXTERIOR WALL FACES. EARTH FORMS ARE NOT ALLOWED UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER OR RECORD.
- ALL SUB-GRADES SHALL BE PREPARED AND INSPECTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

REINFORCED CONCRETE

- DESIGN MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE ADOPTED EDITION OF THE FOLLOWING STANDARDS:
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 - ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
 - BATCH PLANT MUST BE CERTIFIED TO ASTM C94.
- ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, f'c = 4000 PSI. PROVIDE AIR ENTRAINMENT PER ACI 318, SECTION 19.3.3.1 ADMIXTURES FOR CONCRETE SHALL COMPLY WITH ACI 318, SECTION 26.4.1.4.
- EVALUATION AND ACCEPTANCE OF CONCRETE SHALL CONFORM WITH ACI 318 SECTION 26.12.
- PRIOR TO PLACING CONCRETE, APPROVAL SHALL BE OBTAINED FROM THE ENGINEER OR LOCAL BUILDING AGENCY FOR SLEEVES, OPENINGS, OR OTHER ATTACHMENTS NOT SHOWN ON THE DRAWINGS.
- USE THE FOLLOWING MINIMUM COVER ON REINFORCEMENT IN CAST-IN-PLACE CONCRETE. UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
 - 2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER, #6 BARS OR LARGER
 - 1 1/2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER, #5 BARS AND SMALLER
 - 3/4" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, #11 BAR AND SMALLER.
 - 1 1/2" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, #14 BAR AND SMALLER.
 - 1 1/2" FOR BEAMS, COLUMNS AND PILASTERS, COVER OVER TIES.
 - 1 1/2" CLEAR TO TOP FOR REINFORCEMENT IN SLABS ON GRADE.
- PROVIDE MATCHING FOUNDATION DOWELS FOR ALL VERTICAL BARS, UNLESS DETAILED OTHERWISE. PROVIDE CORNER BARS MATCHING HORIZONTAL BARS AT ALL WALL INTERSECTIONS.
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE
- THOROUGHLY CLEAN EXISTING SURFACES OF LAITANCE AND FOREIGN MATERIAL. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED THOROUGHLY AND STANDING WATER REMOVED.
- THE CONTRACTOR SHALL LOCATE, SUBJECT TO THE APPROVAL OF THE ENGINEER, CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS. LOCATE SUCH JOINTS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE.

10. SURFACE FINISH TO BE:

- BROOM FINISH FOR EXTERIOR SLABS
- HARD TROWEL FOR INTERIOR SLABS

- ALL LAP SPLICES TO BE CLASS B, REFER TO THE FOLLOWING TABLE FOR MINIMUM BAR LAPS:

MINIMUM BAR LAPS FOR REINFORCING STEEL ALL REBAR TO BE GRADE 60 UNCOATED BARS CONCRETE STRENGTH 3000 PSI OR MORE (STAGGERED SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	27"	#6	54"	#9	86"
#4	36"	#7	63"	#10	105"
#5	45"	#8	72"	#11	125"

12. NON-SHRINK GROUT:

GROUT FOR BASE PLATES, EQUIPMENT ANCHORAGE AND GENERAL PURPOSES SHALL BE APPROVED, NON-SHRINK CEMENTITIOUS GROUT CONTAINING NATURAL AGGREGATES DELIVERED TO THE JOB SITE IN FACTORY PREPACKAGED CONTAINERS REQUIRING ONLY THE ADDITION OF WATER. ASTM C1107 TYPE B ORC

13. WELDED HEADED STUDS:

ALL WELDED HEADED STUDS SHALL BE 3/4" IN DIAMETER UNLESS NOTED OTHERWISE ACCEPTABLE TYPES SHALL BE "IRU-WELD" (ICC-ES E-3741) OR "NELSON" (ICC-ES E-2614) STUDS SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY MANUFACTURER OF STUDS. STEEL STUD MATERIAL, WELDING, AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.1

STRUCTURAL STEEL

- DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH THE MANUAL OF STEEL CONSTRUCTION, AISC, EDITION REFERENCED IN THE ADOPTED BUILDING CODE.
- REFER TO THE FOLLOWING TABLE FOR MATERIAL SPECIFICATIONS:

MATERIAL	ASTM DESIGNATION	YIELD STRESS
W, WT & S - SHAPES	A992	Fy = 50 KSI
ANGLES AND CHANNELS	A36	Fy = 36 KSI
CONNECTION PLATES	A36	Fy = 36 KSI
COLD-FORMED LIGHT GAGE	A446	Fy = 50 KSI
BOLTS, TYP	A325-N	Fy = 92 KSI
METAL DECK	A446	Fy = 38 (GR A)
SQUARE & RECTANGULAR (HSS)	A500, GR B	Fy = 46 KSI
ROUND (HSS)	A500, GR B	Fy = 42 KSI
STEEL PIPE	A53, GR B	Fy = 36 KSI

- BOLTED CONNECTIONS SHALL BE BOLTED WITH ASTM A325, UNLESS NOTED OTHERWISE BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN THE BOLT.
- HIGH STRENGTH BOLTING INSPECTION SHALL COMPLY WITH AISC 360.
- HOLES FOR ANCHOR RODS SHALL BE 5/16" LARGER IN DIAMETER FOR ANCHOR RODS LESS THAN 1" DIAMETER AND 1/2" LARGER IN DIAMETER FOR ANCHOR RODS 1" DIAMETER AND LARGER.
- ENSURE ALL DESIGN, DETAILING, FABRICATION AND ERECTION OF STEEL CONFORMS TO THE REQUIREMENTS OF THE FOLLOWS STANDARDS, UNLESS NOTED OTHERWISE.
 - ANSI/AISC, 360 SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS.
 - AISC, 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
 - AISC, QUALITY CRITERIA AND INSPECTION STANDARDS.
 - AISC, STRUCTURAL STEEL DETAILING.
 - RCSG, STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.
- SUBMIT SHOP DRAWINGS FOR FABRICATION AND ERECTION OF ALL STEEL MEMBERS IN ACCORDANCE WITH AISC STANDARDS NOTED ABOVE.
- CUT NO OPENINGS IN STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS.
- DIMENSIONS OF OPENINGS AND ACCORDING TO OWNER'S SPECIFICATION.
- STEEL BAR GRATING SHALL BE 19W4 1 1/4"x3/16", UNLESS NOTED OTHERWISE. FASTEN GRATING AND CHECKER PLATE A MINIMUM OF (2) PLACES AT EACH END SUPPORT AND (1) PLACE AT ALL INTERMEDIATE SUPPORTS FOR EVERY 2'-0" WIDTH OF PANEL. FOR REMOVABLE PANELS, ATTACH GRATING AND CHECKER PLATE TO ALL SUPPORTS WITH BOLTED SADDLE CLIPS AND COUNTERSUNK MACHINE BOLTS, RESPECTIVELY. FOR NON-REMOVALBE PANELS, ATTACH GRATING AND CHECKER PLATE WITH 3/16"x3/4" LONG WELDS AND 3/4" DIAMETER PLUG WELDS TYPICAL, UNLESS NOTED OTHERWISE ON THE DESIGN DRAWINGS RESPECTIVELY. MAXIMUM PERMISSIBLE GRATING CLEAR-SPAN IS 5'-6", UNLESS NOTED OTHERWISE.
- ENSURE THAT RAILINGS, POSTS AND CONNECTIONS ARE CAPABLE OF RESISTING A 200LB CONCENTRATED LOAD APPLIED AT ANY POINT IN ANY DIRECTION WITHOUT EXCEEDING THE ALLOWABLE STRESSES. USE A MAXIMUM POST SPACING 6'-0".
- WELDING SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 FOR THE WELDS AND POSITIONS WITH THEY PERFORM. WELDS SHALL CONFORM TO THE LATEST EDITION OF ASW D1.1 USING WELDING FILLER METAL TO MATCH THE STRUCTURAL STEEL AND WELDING PROCESS PER AWS D1.1, TABLE 3.1. THE WELDING ELECTRODE MINIMUM TENSILE STRENGTH SHALL BE 70 KSI WELDS NOT SPECIFIED SHALL BE CONTINUOUS 1/4" FILLET MINIMUM.

PAINT

- AFTER FABRICATION AND PRIOR TO PAINTING, ALL STEEL ELEMENTS SHALL BE CLEANED OF WELD SPATTERS, RUST, SCALE, GREASE, PAINT AND OTHER FOREIGN MATERIAL TO SSPC-SP2 HAND TOOL CLEANING SPECIFICATIONS. FOLLOWING PREPARATION AND FABRICATION, ALL STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE PRIMER (1.5 MILS MINIMUM DRY FILM THICKNESS) AND TWO FINISH COATS OF INDUSTRIAL ENAMEL (1.5 MILS MIN. DFT PER COAT). ALL PAINT HANDLING AND APPLICATION SHALL COMPLY WITH OSHA REQUIREMENTS.

MATERIALS:

- RED OXIDE PRIMER SHALL BE RODDA BARRIER III, #708095X OR OWNER-APPROVED EQUAL
- ENAMEL SHALL BE RODDA SILICON ALKYD ENAMEL #758801X OR OWNER-APPROVED EQUAL. (ENAMEL COLOR BY OWNER.)
- HANDRAILS AND TOE BOARDS SHALL BE OSHA SAFETY YELLOW. (RODDA #75 8084 5)

INSPECTIONS

- ALL CONSTRUCTION SHALL BE INSPECTED IN CONFORMANCE WITH THE OSSC.
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION IN ACCORDANCE WITH OSSC.
- THE CONTRACTOR SHALL COORDINATE THE TIMING OF CONSTRUCTION AND INSPECTION WITH THE PROJECT ENGINEER, THE INSPECTOR(S) AND/OR THE BUILDING OFFICIAL.
- ALL ITEMS NOTED AS REQUIRING SPECIAL INSPECTION PER THE OSSC IN ACCORDANCE WITH SECTION 1704, SHALL BE BY A QUALIFIED PERSON WHO CAN DEMONSTRATE COMPETENCE FOR THE PARTICULAR TYPE OF CONSTRUCTION BEING INSPECTED. THE SPECIAL INSPECTIONS SHALL BE PERFORMED IN ADDITION TO THE INSPECTIONS REQUIRED BY THE PLANS AND SPECIFICATIONS, THE ENGINEER OF RECORD AND THE BUILDING OFFICIALS.
- INSPECTIONS AND TEST SHALL BE COMPLETED BY CERTIFIED TECHNICIANS AS REQUIRED IN THE BUILDING CODE AND REFERENCED MATERIAL CODES.
- SPECIAL INSPECTIONS ARE TO BE COMPLETED FOR THE ITEMS INDICATED IN THE TABLES ON DWG. D-87259.

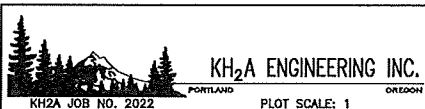


4/5/2022

EVRAZ
RELEASED FOR
CONSTRUCTION

DATE: 03/31/2022

0	03/31/22	ISSUE FOR CONSTRUCTION	JEC	BKY
NO.	DATE	REVISION	BY	APPR.
CAD FILE LOCATION: C:\				
EVRAZ 14400 N.E. INVERGATE BLVD. PORTLAND, OREGON 97203 PH. (503) 240-5240				
EVRAZ PORTLAND, OREGON		SCALE: NONE DATE: 3/21/22 DRAWN: JEC CHECKED: BKY CODE	SURFACE PROCESSING CRANEWAY STAIR ACCESS GENERAL STRUCTURAL NOTES	
DO NOT SCALE DRAWING			DWG. NO.	REV.
TOLERANCES (UNLESS OTHERWISE SPECIFIED) FRACTIONAL DIM. ± 1/16 DECIMAL 1 PLACE DIM. ± .100 DECIMAL 2 PLACE DIM. ± .015 DECIMAL 3 PLACE DIM. ± .005 ANGLES ± 0'-30"			D-87258	0



SPECIAL INSPECTIONS

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS IN THE TABLE BELOW.
CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

EOSH STORE ST'K.		VENDOR NUMBER		BILL OF MATERIAL				DRWG. NO. D-87259	
NUMBER	NAME	NAME	NUMBER	PART NO.	QTY.	UNIT	DESCRIPTION	COMMENTS	WEIGHT

TABLE 1000.1 REQUIRED VERIFICATION AND INSPECTION OF SOILS					
VERIFICATION AND INSPECTION	FREQUENCY		REFERENCED STANDARD	IBC REFERENCE	COMMENTS
	CONTINUOUS	PERIODIC			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X	GEOTECHNICAL ENGINEER OBSERVATION	1705.6	--
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	GEOTECHNICAL ENGINEER OBSERVATION	1705.6	--
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X	MODIFIED PROCTOR	1705.6	--
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		GEOTECHNICAL ENGINEER OBSERVATION	1705.6	--
5. PRIOR TO REPLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	GEOTECHNICAL ENGINEER OBSERVATION	1705.6	--

TABLE 1000.2 SPECIAL INSPECTION OF CONCRETE CONSTRUCTION					
VERIFICATION AND INSPECTION	FREQUENCY		REFERENCED STANDARD	IBC REFERENCE	COMMENTS
	CONTINUOUS	PERIODIC			
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.		X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	--
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE XXX ITEM XX.	X		AWS D1.4, ACI 318: 26.6.4		--
3. INSPECTION OF ANCHORS CAST IN CONCRETE.		X	ACI 318: 17.8.2		--
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	X		ACI 318: 17.8.2		--
5. VERIFYING USE OF REQUIRED DESIGN MIX.		X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	--
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS. PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C 172, ASTM C 31, ACI 318: 26.5, 26.12	1910.10	--
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		ACI 318: 26.5	1910.6, 1910.7, 1910.8	--
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 26.5.3, 26.5.5	1908.9	--
9. ERECTION OF PRECAST CONCRETE MEMBERS.		X	ACI 318: 26.9		--
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X	ACI 318: 26.11.2		--
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.2 (6)		--

SPECIAL INSPECTION PROGRAM FOOTNOTES:

- THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SENT COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE STRUCTURAL ENGINEER, CONTRACTOR AND THE OWNER. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. SPECIAL INSPECTION TESTING REQUIREMENTS ALSO APPLY EQUALLY TO ALL BIDDER DESIGN COMPONENTS.
- CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRED SPECIAL INSPECTION. PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT TIME INTERVALS TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
- ALL WELDING SHALL BE VISUALLY INSPECTED.
- ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USE OF A COMPARABLE APPROVED METHOD.
- CONTINUOUS INSPECTION IS REQUIRED FOR WELDING OF REINFORCING THAT RESISTS FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, REINFORCING IN BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC INSPECTION MAY BE USED FOR OTHER WELDED REINFORCING.



4/5/2022

EVRAZ
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DATE: 03/31/2022

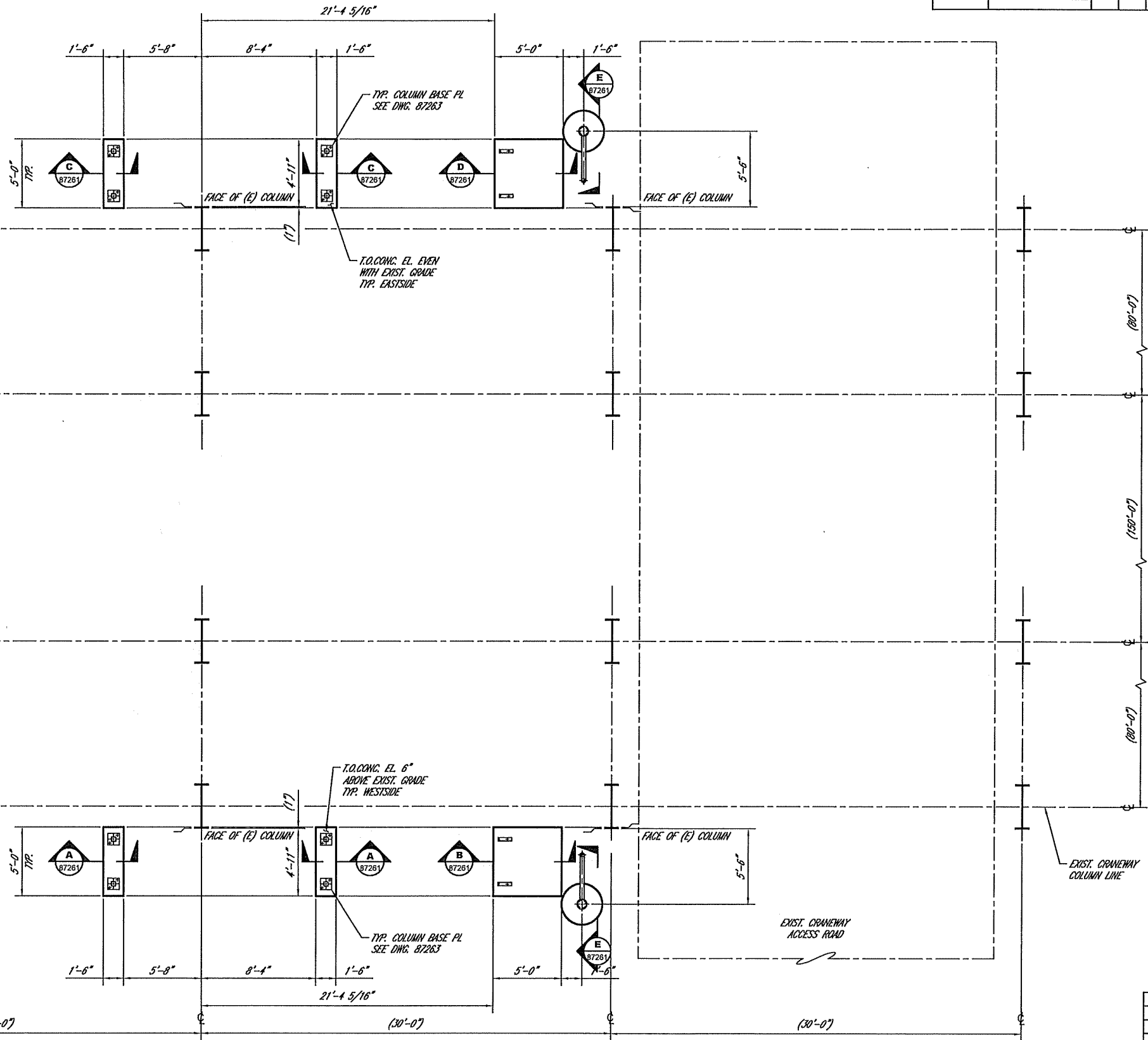
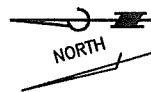
0	03/31/22	ISSUE FOR CONSTRUCTION	JEC	BKY
NO.	DATE	REVISION	BY	APPR.
C:\				
EVRAZ		14400 N.E. RIVERVIEW BLVD. PORTLAND, OREGON 97223 PH. (503) 240-5240		
EVRAZ PORTLAND, OREGON		SCALE NONE	SURFACE PROCESSING CRANEWAY STAIR ACCESS SCHEDULE OF SPECIAL INSPECTIONS	
DATE 03/23/22		DRWN JEC	CHKD-APPR. BKJ	
CODE		DRWG. NO. D-87259		REV. 0



DO NOT SCALE DRAWING	
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	
FRACTIONAL DIM.	± 1/16
DECIMAL 1 PLACE DIM.	± .100
DECIMAL 2 PLACE DIM.	± .015
DECIMAL 3 PLACE DIM.	± .005
ANGLES	± 0'-30"

ECSM STORE ST'K.		VENDOR NUMBER		BILL OF MATERIAL				DWG. NO. D-87260	
NUMBER		NAME NUMBER		PART NO.	QTY	REV.	DESCRIPTION	COMMENTS	REMARKS

PLANT NORTH



EVRAZ
RELEASED FOR
CONSTRUCTION
DATE: 03/31/2022

CRANWAY ACCESS STAIR FOUNDATIONS
DETAIL
SCALE: 1/4"=1'-0" 1 87257



DO NOT SCALE DRAWING		TOLERANCES		EVRAZ		NOTED		SURFACE PROCESSING	
FRACTIONAL DIM.	± 1/16	FRAC. DIM.	± 1/16	DATE	03/23/22	DATE	03/23/22	CRANWAY ACCESS	STAIR FOUNDATION
DECIMAL 1 PLACE DIM.	± .100	DECIMAL 2 PLACE DIM.	± .015	BY	JEC	BY	BKY	CONCRETE PLAN	
DECIMAL 3 PLACE DIM.	± .005	ANGLES	± 0'-30"	CHG.-APPR.		CHG.-APPR.			
				CODE		CODE			

D-87260 0

ECSM STORE ST'K.		VENDOR NUMBER		BILL OF MATERIAL			DWG. NO.	
NUMBER	NAME	NUMBER	NAME	PART NO.	QTY.	NO. REQ'D.	DESCRIPTION	COMMENTS

PLANT NORTH



F 87263 SIM. / OPP. HAND

Bollard
H = 7'-0"

FOR EXIST. CRANE ACCESS
PLATFORM FIELD MODIFICATIONS
SEE DETAIL 9/87265

T.O. CONC. EL. EVEN
WITH EXIST. GRADE
TYP. EASTSIDE

EASTSIDE EXIST. CRANE ACCESS
T.O. EXIST. EXPANDED METAL
EL. 14'-0" ABOVE EXIST. GRADE

WESTSIDE EXIST. CRANE ACCESS
T.O. EXIST. EXPANDED METAL
EL. 14'-6" ABOVE EXIST. GRADE

FOR EXIST. CRANE ACCESS
PLATFORM FIELD MODIFICATIONS
SEE DETAIL 8/87265

T.O. CONC. EL. 6"
ABOVE EXIST. GRADE
TYP. WESTSIDE

Bollard
H = 7'-0"

EXIST. CRANEWAY
ACCESS ROAD

EXIST. CRANEWAY
COLUMN LINE

(30'-0")

(30'-0")

(30'-0")

(180'-0")

(180'-0")

(180'-0")

NOTE:

1. CRANEWAY ACCESS STAIRS ARE FREE STANDING.
THE TOP LANDING IS ±1" FROM THE EXISTING
CRANEWAY ACCESS PLATFORMS.

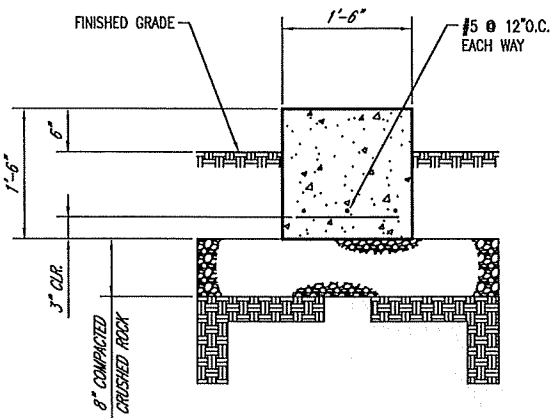
CRANEWAY ACCESS STAIRS
DETAIL 2
SCALE: 1/4"=1'-0"



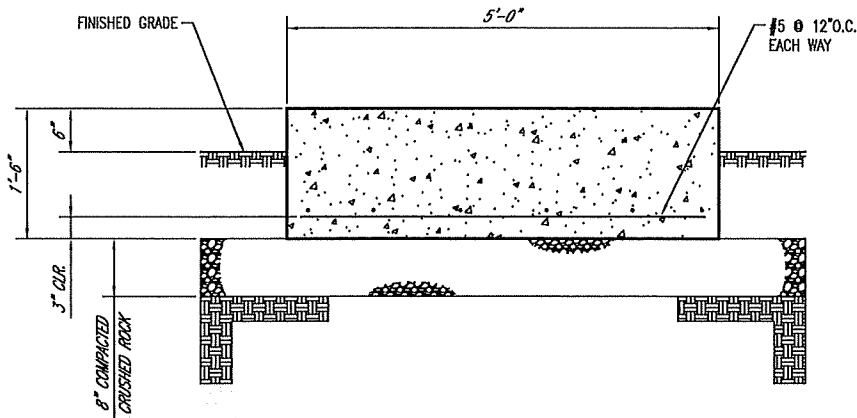
DO NOT SCALE DRAWING
TOLERANCES
(UNLESS OTHERWISE SPECIFIED)
FRACTIONAL DIAL ± 1/16
DECIMAL 1 PLACE DIAL ± .100
DECIMAL 2 PLACE DIAL ± .015
DECIMAL 3 PLACE DIAL ± .005
ANGLES ± 0'-30"

03/31/22		ISSUE FOR CONSTRUCTION		JEC	BKY
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EVRAZ		14400 N.E. RIVERGATE BLVD. PORTLAND, OREGON 97203 PH: (503) 242-5245			
EVRAZ PORTLAND, OREGON		SCALE DATE 03/23/22 DRAWN JEC CHECKED-APPR. BKY	SURFACE PROCESSING CRANEWAY ACCESS ENLARGED STAIR PLAN		
DWG. NO. D-87262		REV. 0			

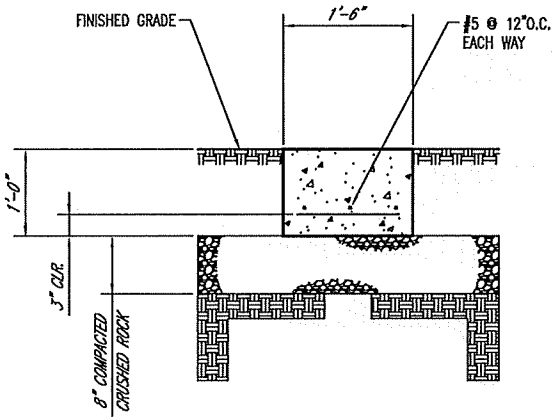
EOSH STORE ST'K.		VENDOR NUMBER		BILL OF MATERIAL				DWG. NO.	
NUMBER	NAME	NUMBER	NAME	PART NO.	QTY.	UNIT	DESCRIPTION	COMMENTS	WEIGHT



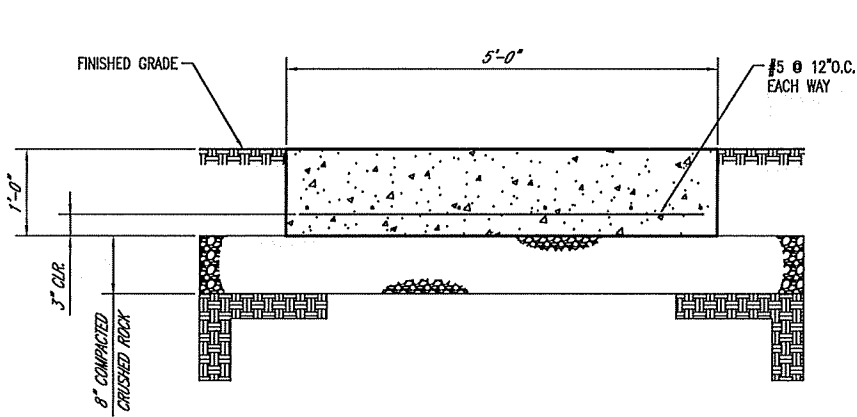
WESTSIDE STAIR SUPPORT BEAM (2 REQ'D)
SECTION A
SCALE: 1"=1'-0"



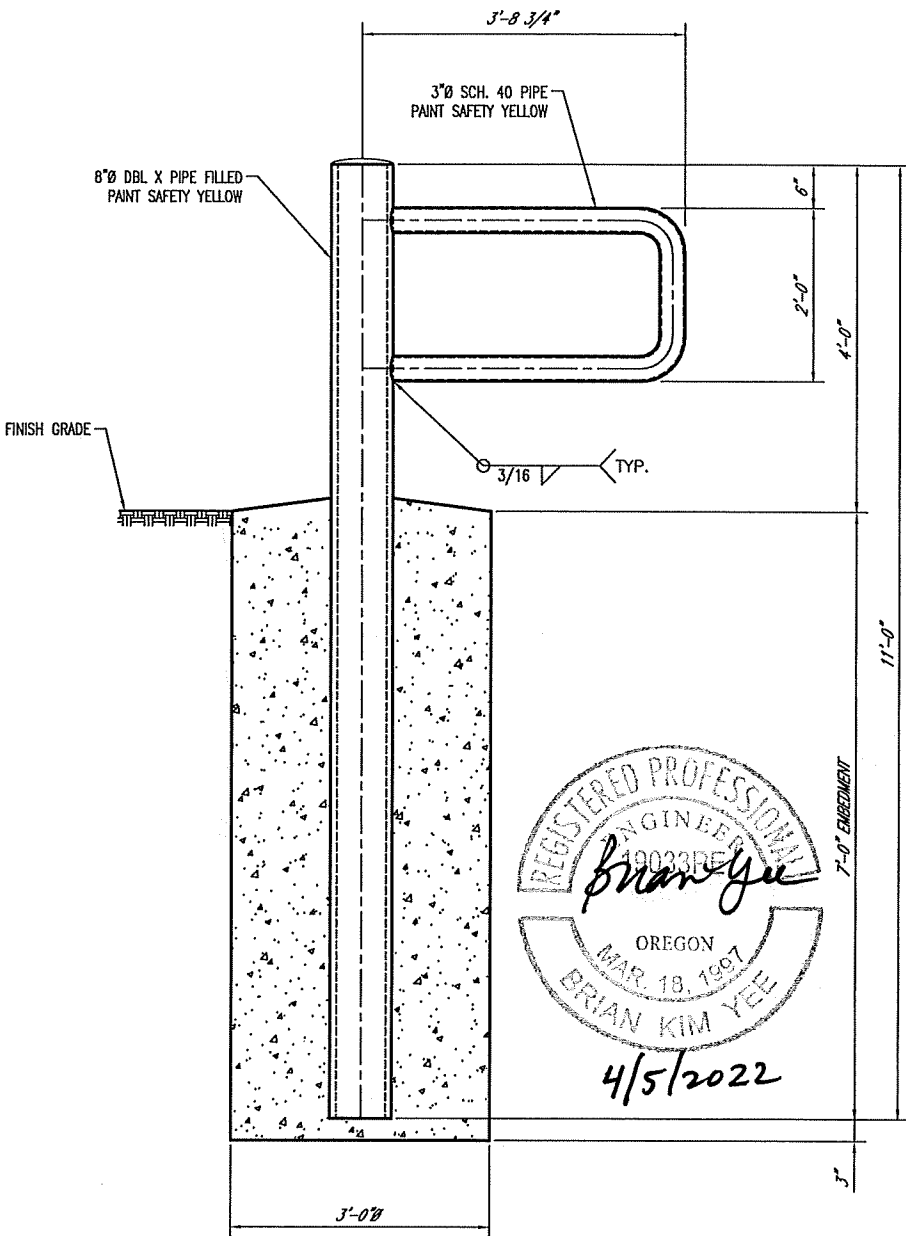
WESTSIDE STAIR LANDING PAD (1 REQ'D)
SECTION B
SCALE: 1"=1'-0"



EASTSIDE STAIR SUPPORT BEAM (2 REQ'D)
SECTION C
SCALE: 1"=1'-0"



EASTSIDE STAIR LANDING PAD (1 REQ'D)
SECTION D
SCALE: 1"=1'-0"




8" DOUBLE-EXTRA STRONG PIPE BOLLARD (2 REQ'D)
DETAIL E
SCALE: 1"=1'-0"

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(UNLESS OTHERWISE SPECIFIED)	
FRACTIONAL DIM.	± 1/16
DECIMAL 1 PLACE DIM.	± .100
DECIMAL 2 PLACE DIM.	± .015
DECIMAL 3 PLACE DIM.	± .005
ANGLES	± 0'-30"

0	03/31/22	ISSUE FOR CONSTRUCTION			JEC BKY
NO.	DATE	REVISION			BY APPR.
C:\					
		14400 N.E. RIVINGTON BLVD. PORTLAND, OREGON 97203 PH. (503) 240-5240			
EVRAZ PORTLAND, OREGON		SCALE NOTED	SURFACE PROCESSING CRANEWAY ACCESS NEW STAIR FOUNDATION DETAILS		
		DATE 03/23/22			
		DRAWN JEC			
		CHECKED-APPR. BKY			
		CODE	DWG. NO. D-87261		REV. 0

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