



CITY OF RICHLAND Determination of Non-Significance

Description of Proposal: Construction of an approximately 46,500 s.f. addition to an

existing corn processing transfer terminal.

Proponent: Central Washington Corn Processing

Attn: Chad Walters 5207 E. 3rd Ave.

Spokane Valley, WA 99212

Location of Proposal: The project site is located at 2900 Logston Blvd., Richland, WA

99352.

Lead Agency: City of Richland

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

() There is no comment for the DNS.

(X) This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for fourteen days from the date of issuance.

() This DNS is issued after using the optional DNS process in WAC 197-11-355. There is no further comment period on the DNS.

Responsible Official: Mike Stevens **Position/Title:** Planning Manager

Address: 625 Swift Blvd., MS #35, Richland, WA 99352

Date: July 16, 2020

Signature

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants: [help]

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to <u>all parts of your proposal</u>, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals: [help]

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the <u>SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D)</u>. Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. BACKGROUND [help]

Evaluation for Agency Use Only

1. Name of proposed project, if applicable: [help]

Central Washington Corn Processing Flathouse Addition

2. Name of applicant: [help]

Chad Walters

3. Address and phone number of applicant and contact person: [help]

5207 E. 3rd Ave. Spokane Valley, WA 99212

Phone; (509) 623-1144

4. Date checklist prepared: [help]

7-1-2020

Agency requesting checklist: [help]

City of Richland, WA

6. Proposed timing or schedule (including phasing, if applicable): [help]

Construction to begin shortly after permit is issued. The project will be completed in one phase.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [help]

This project involves expansion to the east and west side of the existing building structure.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [help]

The existing site has been developed and SEPA determination for various projects were conducted in approximately 2014 and 2018.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. [help]

None at this time.

10. List any government approvals or permits that will be needed for your proposal, if known. [help]

Building Permit, Right of Way Permit, SEPA

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.) [help]

This proposed application is to develop the subject property with an expansion to the existing structure used for a Corn Processing Transfer Terminal. The parcel contains 12.48 AC and will include an overall expansion of ~46,500 SF of terminal space.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. [help]

The subject property is located in northern Richland, WA. The project address is 2900 Logston Blvd.

May 2014

Evaluation for Agency Use Only

B. ENVIRONMENTAL ELEMENTS [help]

Evaluation for Agency Use Only

1. Earth

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils. [help]

Sands and gravels.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [help]

No surface indications or history of unstable soils in the immediate vicinity.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill. [help]

Minimal earthwork is anticipated for this project. Area will be graded to accomodate the building expansion and associated utility improvements.

f. Could erosion occur as a result of clearing, construction, or use?
 If so, generally describe. [help]

Yes, mainly wind erosion. Temporary erosion and sediment controls will be in place.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? [help]

Approximately 35%

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [help]

Best management practices will be used to reduce and control erosion. Local and state laws will be followed.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known. [help]

None anticipated.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [help]

None known.

c. Proposed measures to reduce or control emissions or other impacts to air, if any: [help]

None.

3. Water

- a. Surface Water: [help]
 - Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. [help]

There are wetlands west and south of the site associated with the Horn Rapids Business Center. No surface water can enter the wetlands from this site due to topography and the location of the American Rock Products access road which acts as a berm/dike. No excavation will occur in groundwater.

May 2014

Evaluation for Agency Use Only

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. [help]

None

 Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material. [help]

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. [help]

No.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [help]

No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. [help]

No.

- b. Ground Water:
 - Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. [help]

No.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number

of animals or humans the system(s) are expected to serve. [help]	
None.	
c. Water runoff (including stormwater):	
Describe the source of runoff (including storm water) and	
method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. [help]	
Stormwater runoff will be retained on site and infiltrated into the ground.	
Could waste materials enter ground or surface waters? If so,	
generally describe. [help]	
No.	
Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.	
No.	
 d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [help] 	
None	
4. Plants [help]	
a. Check the types of vegetation found on the site: [help]	
deciduous tree: alder maple aspen other evergreen tree: fir cedar pine other	
shrubs 🗸 sagebrush	
grass 🗸 volunteer	
pasture bullrush	
crop or grain ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	
wet soil plants:	
other water plants: water lily eelgrass milfoil	May .
other types of vegetation	

ENVIRONMENTAL & SALMONIDS CHECKLIST

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		What kind and amount of vegetation will be removed or altered? [help]
Existing ve	get	ation consisting of various weeds will be removed.
None know		List threatened and endangered species known to be on or near the site. [help]
None.	d.	Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [help]
None know		List all noxious weeds and invasive species known to be on or near the site.
	5.	Animals
	a.	<u>List</u> any birds and <u>other</u> animals which have been observed on or near the site or are known to be on or near the site. Examples include: [help]
		birds:
None know		List any threatened and endangered species known to be on or near the site. [help]

d. Proposed measures to preserve or enhance wildlife, if any: [help] Maintain existing vegetation in undisturbed areas. e. List any invasive animal species known to be on or near the site. None known. 6. Energy and natural resources a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. [help] The project will require electrical power from Richland Energy Services. b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [help] No. c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: [help] As required by current building codes. 7. Environmental health a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe. [help] None known.

1) Describe any known or possible contamination at the site from present or past uses. [help] None known. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. None known. 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. None. 4) Describe special emergency services that might be required. None. 5) Proposed measures to reduce or control environmental health hazards, if any: [help] None. b. Noise 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? [help]

Normal traffic sounds from nearby roadways.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site. [help]

Normal construction activity noise during grading and building construction. Following construction there will be no adverse noise.

 Proposed measures to reduce or control noise impacts, if any: [help]

None.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. [help]

The site is currently used as a transfer terminal for corn processing. The adjacent uses consist of Lineage Logistics (cold storage facility), Perma Fix Northwest, Inc (waste management service), and vacant properties.

The proposal will not affect current land uses on nearby or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or non-forest use? [help]

Yes during the former homesteading, however, the homes and agricultural use was discontinued in the 1940's. The irrigation circles were farmed by the City of Richland's tenant until 2012. Farming was stopped for industrial development which has been the City's comprehensive plan for many years.

 Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No, the proposal is not near farm or forest land and is consist with uses in the surrounding

c. Describe any structures on the site. [help]

The existing structure is a grain storage facility used as a transfer terminal for the corn processing facility.

d. Will any structures be demolished? If so, what? [help]

No.

e. What is the current zoning classification of the site? [help]

I-M Medium Industrial

	f. What is the current comprehensive plan designation of the site? [help]	
Industrial		
	g. If applicable, what is the current shoreline master program designation of the site? [help]	
Not applic	able.	
No.	h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [help]	
	i. Approximately how many people would reside or work in the completed project? [help]	
6-8 emplo	rees	
	 j. Approximately how many people would the completed project displace? [help] 	
None.		
	k. Proposed measures to avoid or reduce displacement impacts, if any: [help]	
Not applica	ble.	
	Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [help]	
By comply Code.	ng with the zoning designation, the comprehensive plan, and the City of Richland	
None.	m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:	

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [help]

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [help]

None.

 c. Proposed measures to reduce or control housing impacts, if any: [help]

None.

10. Aesthetics

 a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? [help]

Will match the existing building structure height.

Existing structure is 60' high at peak, same as existing.

Building is Pre-Engineered metal building with metal cladding same as existing.

 b. What views in the immediate vicinity would be altered or obstructed? [help]

None.

 c. Proposed measures to reduce or control aesthetic impacts, if any: [help]

None at this time.

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [help]

Light and glare are not anticipated.

 b. Could light or glare from the finished project be a safety hazard or interfere with views? [help]

No, not anticipated.

None.

 d. Proposed measures to reduce or control light and glare impacts, if any: [help]

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity? [help]

None. The closest recreation area is over 1 mile away.

b. Would the proposed project displace any existing recreational uses? If so, describe. [help]

No.

 c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [help]

None.

13. Historic and cultural preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe. [help]

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources. [help]

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc. [help]

Source: City website and Comprehensive Plan

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

None at this time.

14. Transportation

 a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any. [help]

Logston Blvd is located to the west of the property.

 Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? [help]

No.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [help]

N/A.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). [help]

No improvements are anticipated.

 e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. [help]

Yes. The current structure uses rail transportation and will continue to use it in the future.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates? [help]

The current site has approximately 80 amount of truck trips per day. The expansion is estimated to add an additional 0 amount of truck trips per day. Merely moving volume from another location on the property to the building addition.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe. [help]

No.

 h. Proposed measures to reduce or control transportation impacts, if any: [help]

None.

15. Public services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. [help]

No, the proposed use will be the same as the existing need.

None.	b. Proposed measures to reduce or control direct impacts on public services, if any. [help]
	16. Utilities
	a. Check utilities currently available at the site: [help] ✓ electricity, □natural gas, water ✓ refuse service ✓ ✓ telephone, ✓ sanitary sewer, □ septic system, other
	b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. [help]
Existing wat	er to be updated to accommodate additional fire flow requirements.
	I
	C. SIGNATURE [help]
	The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.
	Signature: Chad Walter
	Name of signee
	Position and Agency/Organization Secretary Jounes
	Date Submitted: 6 30 2020

GENERAL NOTES

- 1. CONTRACTOR TO VERIFY WITH UTILITIES EXACT LOCATION OF EXISTING UNDERGROUND SERVICES. CONTACT CALL BEFORE YOU DIG AT: (800) 424-5555
- 2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THESE DRAWINGS, THE SPECIFICATIONS, AND THE CURRENT EDITIONS OF THE IBC, IMC, NEC AND THE WASHINGTON STATE ENERGY CODE, AND ALL BENTON COUNTY REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PROVIDING ALL REQUIRED DOCUMENTATION FOR ISSUANCE OF PERMITS, INCLUDING ANY AND ALL ENGINEERING STAMPED AND SIGNED BY REGISTERED PROFESSIONAL ENGINEERS IN THE STATE OF WASHINGTON APPROPRIATE TO THE DISCIPLINE.
- THE CONTRACTOR AGREES TO ASSUME SAFE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT
- SAFETY MEASURES IN SITE VISIT OBSERVATION REPORTS

ABBREVIATIONS

FLOORING

FOLDING

FOOTING

FORWARD

FRAMING

FURRING

GAUGE

GRADE

GYPSUM

HARDBOARD

HARDWOOD

HAND DRYER

HORIZONTAL

HOLLOW CORE

HOLLOW METAL

HORIZONTAL

HARDWOOD

INFILTRATION

INSULATION

IRRIGATION

LAMINATED

LAMINATE

LATERAL

JOINT

LONG

INSIDE DIAMETER

INTERNATIONAL BUILDING CODE

GRAB BAR

GALVANIZED

FIRE TREATED

FIELD VERIFY

FOUNDATION

FLDG.

F.T.

FTG.

F.V.

FWD.

FDN.

FRAMG.

FURRG.

GALV.

GA.

GB.

GR.

GYP.

HDBD

HDWD.

HD.

HT.

HORIZ

H.C.W.

HORIZ

H.M.

HR.

HW.

IBC

I.D.

INSUL.

IRRIG.

LAM.

LAT.

LAMIN.

INFILTR

ADDI	REVIATIONS		
ACOUST.	ACOUSTICAL	L.M.B.	LIQUID MARKER BOARD
ADJ.	ADJACENT	LT.	LIGHT
ADJA.	ADJUSTABLE	M.	MIRROR
AFF	ABOVE FINISHED FLOOR	M.H.	MAN HOLE
ALT.	ALTERNATE	MANUF.	MANUFACTURER
ALUM.	ALUMINUM	M.O.	MASONRY OPENING
L	ANGLE	MB	MASONRY BEAM
ASPH.	ASPHALT	MAS.	MASONRY
ASSEM.	ASSEMBLY	MAX	MAXIMUM
BM.	BEAM	MEMB:	MEMBRANE
BRG .	BEARING	MET.	METAL
B.M.	BENCH MARK	MIN	MINIMUM
BLK.	BLOCK	NONPERF.	NONPERFORATED
BLKG.	BLOCKING	NTS.	NOT TO SCALE
BLDG.	BUILDING	NO.	NUMBER
BD.	BOARD	O.C.	ON CENTER
BOT. B.O	BOTTOM BOTTOM OF	OFCI	OWNER FURNISHED
B.U.	BUILT-UP	0501	CONTRACTOR INSTALLED
CAB.	CABINET	OFOI	OWNER FURNISHED
CAB.	CAST IRON	OPNG.	OWNER INSTALLED OPENING
CLG.	CEILING	OPP.	OPPOSITE
CL	CENTER LINE	O.D.	OUTSIDE DIAMETER
CERAM.	CERAMIC	O.H.	OVERHEAD
C	CHANNEL	O.S.	OVERFLOW SCUPPER
CHEM.	CHEMICAL	d	PENNY
C.O.	CLEAN OUT	PERF.	PERFORATED
CLR.	CLEAR	PERIM.	PERIMETER
C.C.T.V.	CLOSED CIRCUIT TELEVISION	PL	PLATE
COL.	COLUMN	PLYWD.	PLYWOOD
COMP.	COMPOSITION	PLAST.	PLASTIC
CONC.	CONCRETE	P.O.C.	POINT OF CONNECTION
CMU	CONCRETE MASONRY UNIT	POS.	POSITIVE
CONSTR.	CONSTRUCTION CONTINUOUS	LB.	POUND
CONT. CONT. JT.	CONTINUOUS CONTROL JOINT	PREFAB.	PREFABRICATED
CORRUG.	CORRUGATED	PREMANUF. PT	PREMANUFACTURED PAINT
CPT	CARPET	P.T.	PRESSURE TREATED
CT.	CERAMIC TILE	PTD.	PAPER TOWEL DISPENSER
C.F.	CUBIC FEET	R	RADIUS
CJ	CONTROL JOINT	R.B.	RUBBER BASE
CUST.	CUSTODIAL	R.D.	ROOF DRAIN
DEG.	DEGREE	REF.	REFERENCE
DENS.	DENSITY	REINF.	REINFORCED
DISP.	DISPENSER	REQD.	REQUIRED
D.F.	DRINKING FOUNTIAN	RESIST	RESIST
DIA.	DIAMETER	RET.	RETAINING
DIV. DIR.	DIVISION DIRECT	RETRACT.	RETRACTABLE
DIST.	DISTRIBUTION	REV. R.O.	REVISION ROUGH OPENING
DBL.	DOUBLE	SALV.	SALVAGE
EA.	EACH	SCHED.	SCHEDULE
ELASTO.	ELASTOMERIC	S.C.	SEALED CONCRETE
ELEC.	ELECTRICAL	S.D.	SOAP DISPENSER
E.W.C.	ELECTRIC WATER COOLER	SERV.	SERVICE
ELEV.	ELEVATION	SHEATHG.	SHEATHING
ENGRD.	ENGINEERED	SHT.	SHEET
EPXY.	EPOXY PAINT	SIM.	SIMILAR
EQ.	EQUAL OR EQUIVALENT	SOFTWD.	SOFTWOOD
EXIST	EXISTING	S.C.W.	SOLID CORE
EXP. EXT.	EXPANSION EXTERIOR	SQ.	SQUARE STAINLESS STEEL
EXT. FD.	EXTERIOR FLOOR DRAIN	S.S. STD.	STAINLESS STEEL STANDARD
FIN.	FINISH	STOR.	STORAGE
F.E.	SURFACE MT FIRE EXTINGUISHER	STRUCT.	STRUCTURAL
F.E.C.	FIRE EXTINGUISHER & CABINET	SURFS.	SURFACES
F.F.	FINISHED FLOOR	SUSP.	SUSPENDED
FLR.	FLOOR	SV.	SHEET VINYL
EL DC	EL OODING	CVNTH	CVNTHETIC

SYNTH.

SYST.

TEMPRD.

TEMP.

TEXT.

THICK

T&G

T.O.D.

T&B

T.W.C.

TYP.

U.N.O.

VAN.

VERT.

V.W.C.

W/O

WAINS.

WAREHSE

THRESH.

SYNTHETIC

TELEPHONE

TELEVISION

TEMPERED

TEMPORARY

THICKENED

THRESHOLD

TOP OF GRADE

TONGUE & GROOVE

TOP OF ROOF DECK

TOP OF SIDEWALK

TACKABLE WALL COVERING

UNIFORM BUILDING CODE

VINYL COMPOSITION TILE

VINYL WALL COVERING

UNLESS NOTED OTHERWISE

TOP AND BOTTOM

TRANSITION

VENTED BASE

VERTICAL

WAINSCOT

WAREHOUSE

WATER CLOSET

WIDE FLANGE

WITH OUT

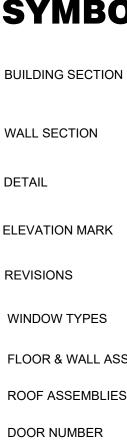
WOOD

TEXTURE

THICK

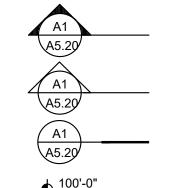
SYSTEM

SYMBOLS



ELEVATION MARK REVISIONS WINDOW TYPES FLOOR & WALL ASSEMBLIES ROOF ASSEMBLIES

DOOR NUMBER **EXTERIOR ELEVATION** INTERIOR ELEVATION



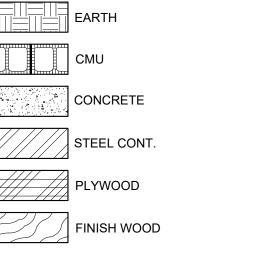
SEE SHEET A6.00

A1 SEE SHEET A8.00 & A9.01

A1 SEE SHEET A8.00

A<u>1/4.0</u>0

MATERIAL KEY



CENTRAL WASHINGTON CORN PROCESSORS FLATHOUSE STORAGE

3334 LOGSTON BLVD., RICHLAND, WA 99354

PROJECT TEAM

OWNER

INDUSTRIAL SYSTEMS AND FABRICATION 16208 E. LACROSSE LANE **DAVID WOLF** SPOKANE VALLEY, WASHINGTON 99216 TEL: (509) 534-1743

ARCHITECTURAL

DESIGN WEST ARCHITECTS, P.A. ELIOT BLACK 830 N. COLUMBIA CENTER BLVD., SUITE E KENNEWICK, WASHINGTON 99336 TEL: (509) 783-2244

STRUCTURAL

TEL: (509) 622-2888

TD & H ENGINEERING CONTACT: 303 EAST 2ND AVE SPOKANE, WASHINGTON 99202

CIVIL

JUB ENGINEERS DARRAL MOORE 2810 W. CLEARWATER AVE., SUITE 201 KENNEWICK, WA 99336 TEL: (509) 783-2144

CONTACT:

- PROJECT SITE

METAL BUILDING

BEHLEN BUILDING SYSTEMS 4025 EAST 23RD STREET COLUMBUS, NEBRASKA 68602

VICINITY MAP

BATTELLE BLVD

RICHLAND, WA

WOOD BLKNG

BATT INSUL.

CRUSHED GRAVEL

RIGID INSUL.

DRAWING INDEX

GENERAL:	
G1.00	TITLE SHEET
G1.01	CODE EVAL SITE PLAN - CODE PLAN
G1.02	ELEVATIONS

CIVIL: C-2 OVERALL SITE LAYOUT C-3 Grading Plan

STRUCTURAL

S1.0 GENERAL STRUCTURAL NOTES S1.1 TYPICAL DETAILS S4.0 FOUNDATION PLAN S4.1 FOUNDATION PLAN **GRAIN BIN DETAILS**

GENERAL INFORMATION SHEET 2 ANCHOR BOLT PLAN ANCHOR BOLT PLAN SHEET 3 SHEET 4 BUILDING ACCESSORIES SHEET 5 RIGID FRAME ELEVATION SHEET 6 RIGID FRAME ELEVATION SHEET 7 RIGID FRAME ELEVATION SHEET 8 RIGID FRAME ELEVATION RIGID FRAME ELEVATION **ROOF FRAMING** SHEET 10 SHEET 11 **ROOF FRAMING** ENDWALL FRAMING SHEET 13 **ENDWALL FRAMING** SHEET 14 SIDEWALL FRAMING SHEET 15 SIDEWALL FRAMING SHEET 16 SIDEWALL FRAMING SHEET 17 **ERECTION DETAILS**

ERECTION DETAILS

ERECTION DETAILS

ERECTION DETAILS

METAL BUILDING EAST ADDITION:

SHEET 18

SHEET 19

SHEET 19

SHEET 1 **GENERAL INFORMATION** ANCHOR BOLT PLAN SHEET 2 SHEET 3 ANCHOR BOLT PLAN **BUILDING ACCESSORIES** SHEET 4 SHEET 5 RIGID FRAME ELEVATION SHEET 6 RIGID FRAME ELEVATION RIGID FRAME ELEVATION SHEET 7 RIGID FRAME ELEVATION SHEET 8 SHEET 9 RIGID FRAME ELEVATION **ROOF FRAMING** SHEET 10 SHEET 11 **ROOF FRAMING** SHEET 12 ENDWALL FRAMING SHEET 13 ENDWALL FRAMING SHEET 14 SIDEWALL FRAMING SHEET 15 SIDEWALL FRAMING SIDEWALL FRAMING SHEET 16 **ERECTION DETAILS** SHEET 17 **ERECTION DETAILS** SHEET 18

City of Richland Building Codes Review

Not Approved

Please note that corrections are required prior to permit issuance. See included red-line remarks and written comments letter.

10

SSIGN OF THE CONTRECT OF THE C DRAWN BY CHECKED BY EΒ JOB NUMBER 20046 **REVISIONS**

REGISTERED ARCHITECT BRANDON D. WILM STATE OF WASHINGTON

STORAG **FLATHOUSE** CWCP

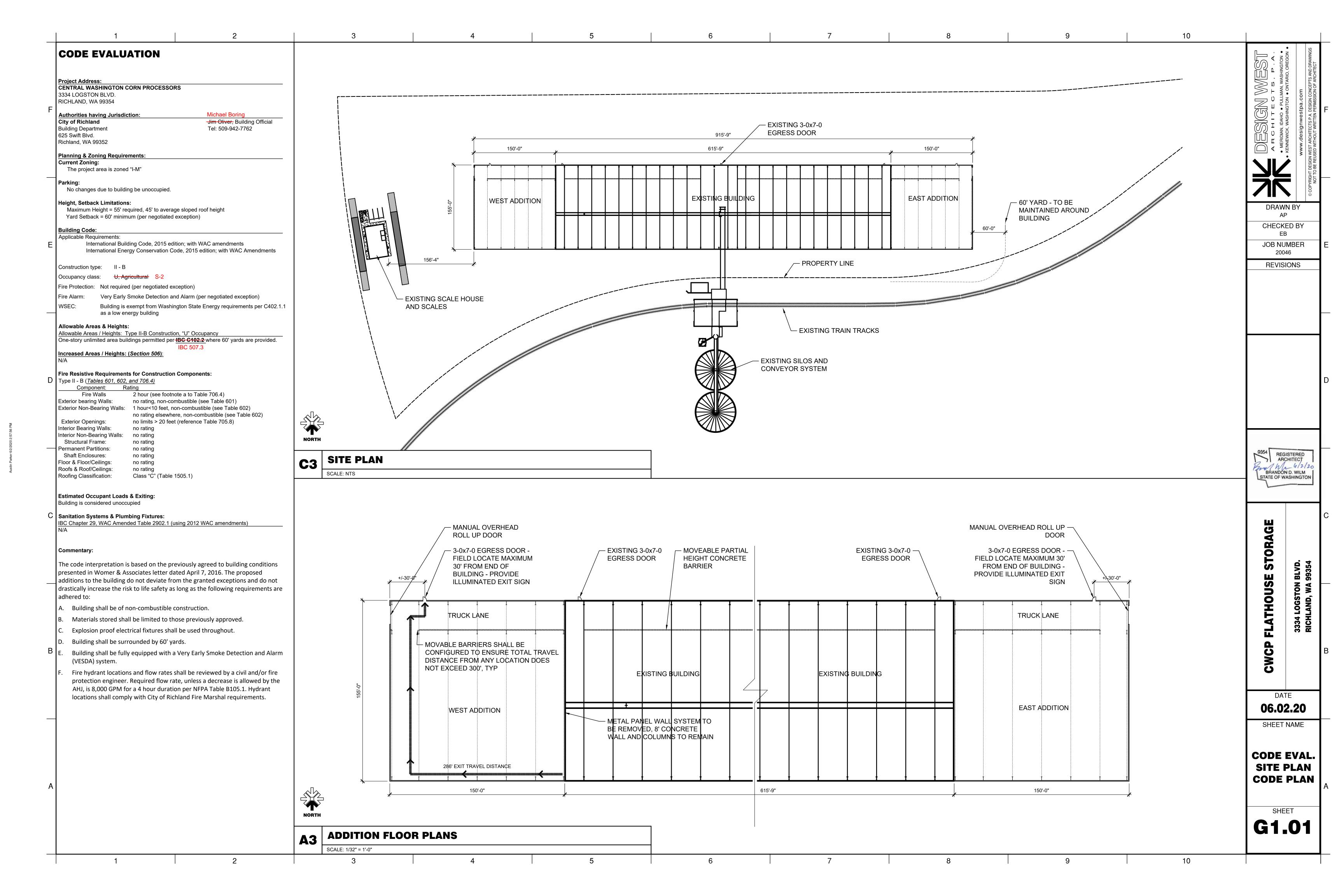
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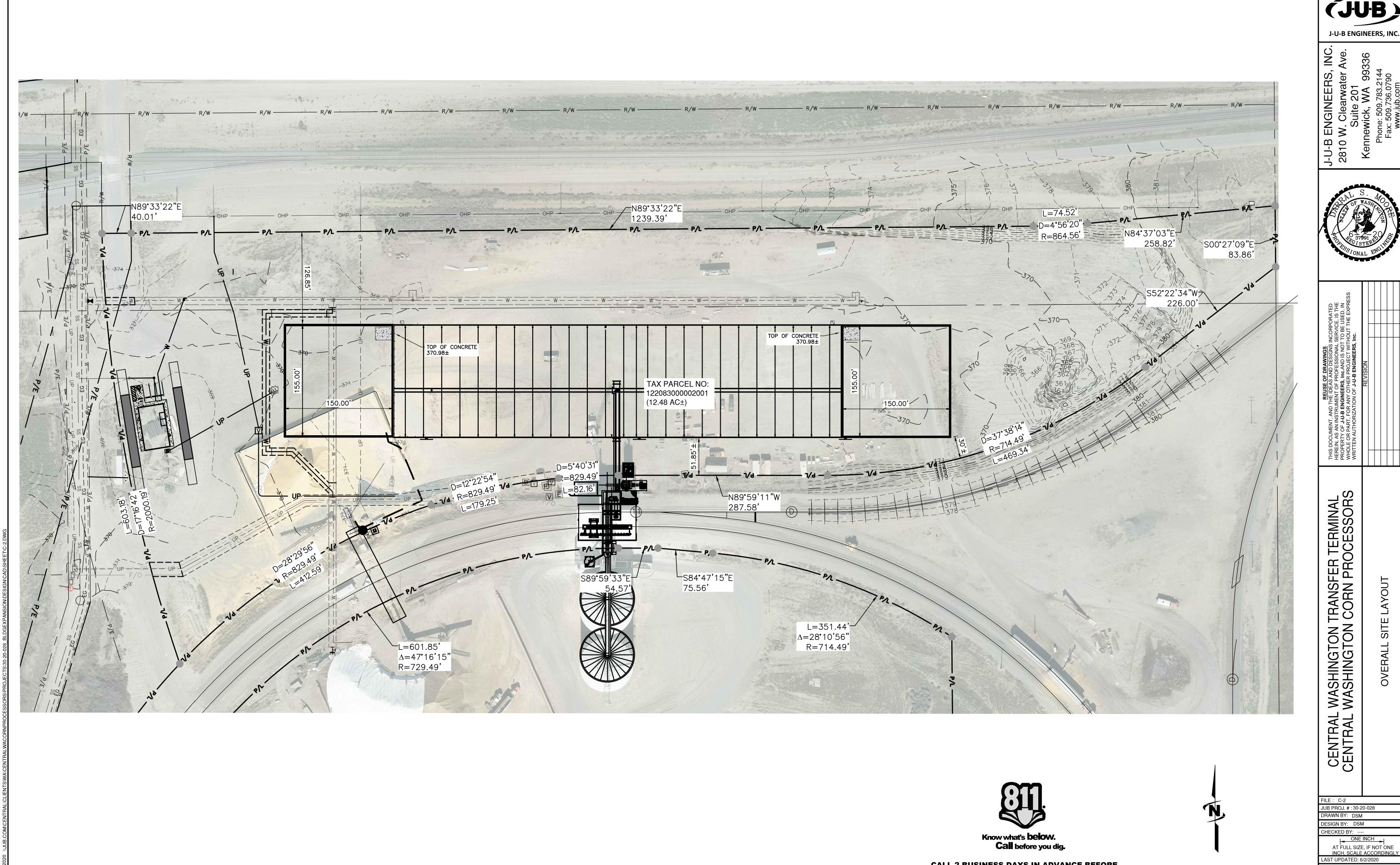
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TITLE SHEET

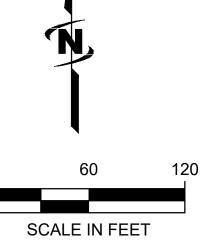
SHEET

G1.00



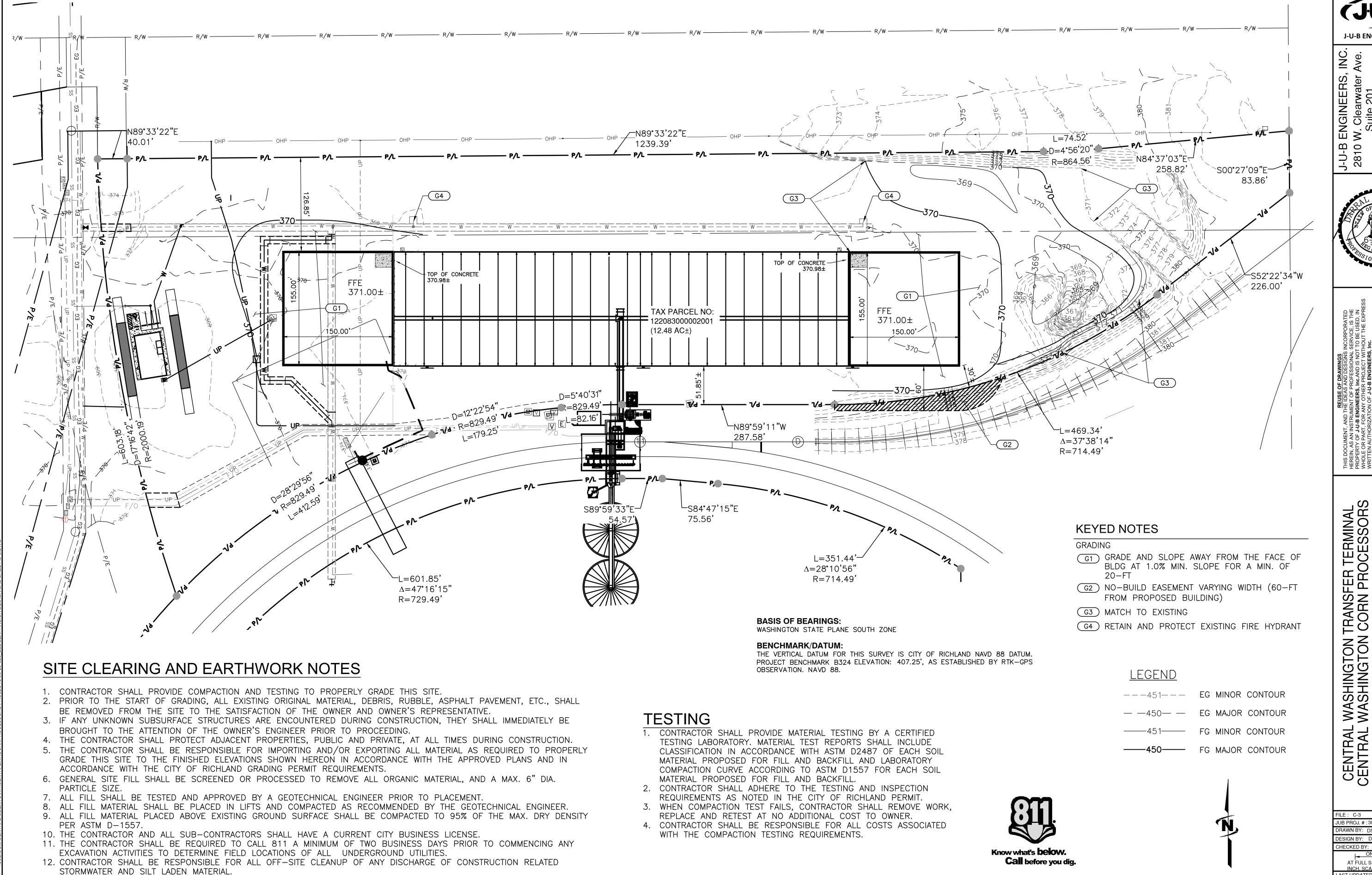


CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



SHEET NUMBER:

C-2

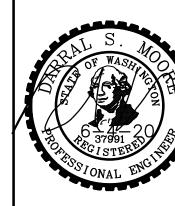


13. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY CONSTRUCTION WATER FOR DUST CONTROL AND FOR

CONTRACTOR SHALL COORDINATE WITH THE CITY OF RICHLAND FOR LOCATION AND CONNECTION REQUIREMENTS.

COMPACTION PURPOSES. A TEMPORARY CONSTRUCTION WATER SOURCE IS LOCATED OFF-SITE BY THE CITY OF RICHLAND.

J-U-B ENGINEERS, INC



TRANSFER TERMINAL CORN PROCESSORS WASHINGTON T WASHINGTON

FILE: C-3 JUB PROJ. #: 30-20-028 DRAWN BY: DSM DESIGN BY: DSM CHECKED BY: ----

ONE INCH AT FULL SIZE, IF NOT ONE LAST UPDATED: 6/4/2020

SHEET NUMBER: C-3

SCALE IN FEET

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE

YOU DIG, GRADE, OR EXCAVATE FOR THE

MARKING OF UNDERGROUND MEMBER

UTILITIES

GENERAL NOTES

- 1. THE PROJECT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNOLOGIES, SEQUENCES AND PROCEDURES. THE CONTRACTOR IS RESPONSIBLE TO DESIGN AND ERECT TEMPORARY SHORES AND BRACES TO SUPPORT THE STRUCTURE FOR LOADS DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: GRAVITY, WIND, AND EARTH PRESSURE. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF IN ORDER TO NOT EXCEED THE DESIGN LIVE LOAD.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE BETWEEN ALL OF THE CONTRACT DOCUMENTS. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND WEIGHT OF MECHANICAL AND ELECTRICAL EQUIPMENT. LOCATING OPENINGS IN WALLS, FLOORS, AND ROOFS, ETC.
- 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHAL CONFORM TO SIMILAR WORK ON THE PROJECT. TYPICAL DETAILS ARE NOT CUT ON DRAWINGS. BUT APPLY UNLESS NOTED OTHERWISE.
- 4. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH RELATED WORK
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- VISITS TO THE JOBSITE BY THE ENGINEER TO OBSERVE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT THEY ARE THE GUARANTORS OF THE CONTRACTOR'S METHODS. SITE SAFETY. OR
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS AND SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO ENGINEERING REVIEW.

DESIGN LOADS

1. GOVERNING CODES: 2015 INTERNATIONAL BUILDING CODE (IBC)

2. OCCUPANCY CATEGORY = II

- MANUFACTURER SUPPLIED REACTIONS USED FOR FOUNDATION DESIGN:
 - BEHLEN MFG FLATHOUSE STORAGE REACTIONS DATED 4/7/20 REF #X2345 & #X2346

4. RETAINED MATERIALS

DENSITY = 48 PCFPEAKED EQUIVALENT FLUID PRESSURE = 26 PCF

INSPECTIONS

- 1. ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SECTION 110. IN ADDITION, THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704 OF THE IBC.
- 2. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS AS REQUIRED BY SECTION 1704 OF THE IBC TO THE SATISFACTION OF THE BUILDING OFFICIAL
- 3. <u>STATEMENT OF SPECIAL INSPECTIONS</u>: SPECIAL INSPECTIONS SHALL BE PERFORMED AS REQUIRED BY CHAPTER 17 OF THE IBC. THE FOLLOWING STRUCTURAL WORK SHALL BE INSPECTED UNLESS DEEMED MINOR IN NATURE AS APPROVED BY THE BUILDING OFFICIAL.

TABLE 1705.6 VERIFICATION AND INSPECTION OF SOILS VERIFICATION AND INSPECTION CONT. | PERIODIC APPLIES MATERIALS BELOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS Χ VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FULL PRIOR TO PLACEMENT OF COMPACTED FILL. OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY

FOUNDATION AND SOIL PREPARATION

- 1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL RECOMMENDATIONS PROVIDED BY SHANNON & WILSON, INC IN THEIR REPORT DATED FEBRUARY 9, 2015.
- 2. CONTRACTOR SHALL REFER TO THIS REPORT FOR SITE SPECIFIC SOIL WORK INCLUDING, BUT NOT LIMITED TO: SITE PREPARATION, EXCAVATION, FILL MATERIAL, AND ADDITIONAL INSPECTIONS.
- 3. DESIGN VALUES
 - ALLOWABLE STATIC LOAD BEARING PRESSURE = 2,500 PSF ALLOWABLE TRANSIENT LOAD BEARING PRESSURE INCREASE = 33% ACTIVE EARTH PRESSURE = 35 PCF (ASSUMES NO HYDROSTATIC PRESSURE) AT-REST EARTH PRESSURE = 55 PCF (ASSUMES NO HYDROSTATIC PRESSURE) PASSIVE EARTH PRESSURE = 300 PCF (NEGLECT TOP 2'-0") FRICTION = .35 FOR IMPORTED ROCK
 - MODULUS OF SUBGRADE $K_1 = 150$ PCI ABOVE AND 85 PCI BELOW THE WATER TABLE FROST DEPTH = 2'-0'' BELOW FINISHED GRADE WATER TABLE = ELEVATION OF 362'-0"
- 4. REMOVE ALL TOPSOIL, ORGANIC MATERIAL, VEGETATION, ASPHALT, CONCRETE, AND RELATED CONSTRUCTION DEBRIS FROM THE PROPOSED SITE PRIOR TO FORMING FOUNDATIONS. SOILS DISTURBED BELOW THE PLANNED DEPTHS OF FOOTING EXCAVATIONS SHALL EITHER BE RE-COMPACTED OR OR BE REPLACED WITH SUITABLE COMPACTED FILL. BEAR FOUNDATIONS ON STRUCTURAL FILL MEETING THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
- 5. CONFORM TO IBC CHAPTER 18 "FOUNDATIONS AND RETAINING WALLS."
- 6. DO NOT PLACE BACKFILL BEHIND WALLS BEFORE THE CONCRETE HAS REACHED ITS FULL DESIGN STRENGTH, ALL WALLS BELOW GRADE SHALL BE BRACED AS REQUIRED UNTIL CONNECTING SLABS, FLOORS, ETC HAVE BEEN PLACED AND OBTAINED FULL STRENGTH

CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. CONCRETE PROPERTIES:

<u>USE</u>	28 DAY STRENGTH	MAX W/C	AIR	MAX AGGREGATI
PIERS, FTGS, & WALLS	4,500 PSI	.45	6 ± 1½%	1½"
EXTERIOR SLAB ON GRADE	4,500 PSI	.45	6 ± 1½%	3/4"
INTERIOR SLAB ON GRADE	3,000 PSI	.45	2 ± 1½%	3/4"

- CONCRETE DROP HEIGHT SHOULD BE LIMITED TO 4'-0" DURING ALL CONCRETE PLACEMENT. CONCRETE SHOULD BE ABLE TO FALL FREELY WITHOUT OBSTRUCTION FROM REBAR. ETC.
- 4. COLD WEATHER AND HOT WEATHER CONCRETING SHALL FOLLOW THE RECOMMENDATIONS OF ACI 306 AND ACI 305.
- 5. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, SLAB EDGES, REINFORCING, KEYS, ETC.
- 6. ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED, UNLESS THE SUPPLIER HAS SPECIFICALLY WITHHELD WATER FROM THE BATCH AT THE PLANT. IN SUCH CASE THE MIX DESIGN AND TRUCK TICKET MUST CLEARLY STATE THE MAXIMUM AMOUNT OF WATER THAT CAN BE ADDED TO THE BATCH ON SITE. IN NO CASE SHALL THE DESIGN WATER TO CEMENTITIOUS MATERIAL RATIO BE EXCEEDED.

CEMENTITIOUS/EPOXY GROUT

APPLIES

- 7. THE SPACE BENEATH ALL BASEPLATES AND BEARING PLATES SHALL BE THOROUGHLY CLEANED BEFORE DRYPACKING OR GROUTING. DRYPACK/GROUT SOLID BENEATH ALL BASEPLATES AND BEARING PLATES. NO VOIDS ARE PERMISSIBLE. USE OF DRYPACK OR FLOWABLE GROUT IS PER THE PLANS OR DETAILS, DRYPACK/GROUT PER THE FOLLOWING:
- 7.1. DRYPACK PORTLAND CEMENT, ASTM C150, TYPE I; AND CLEAN, NATURAL SAND, ASTM C404, SIZE NO. 2, MIX AT RATIO OF 1 PART CEMENT TO 2-1/2 PARTS SAND, BY VOLUME, WITH MINIMUM WATER REQUIRED FOR PLACEMENT AND HYDRATION, MINIMUM COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C109.
- 7.2. FLOWABLE GROUT PREMIXED, NONMETALLIC, NONCORROSIVE, NONSHRINK GROUT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH ASTM C1107, OF CONSISTENCY SUITABLE FOR APPLICATION, AND A 30-MINUTE WORKING TIME. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C1107.

VERIFICATION AND INSPECTION

INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE

INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS

X INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS

AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS

INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER

INSPECTION OF PRE-STRESSED CONCRETE: GROUTING OF BONDED

SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS

PRE-STRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM

VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF

INSPECT FORM-WORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE

FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND

INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND

INSPECTION OF PRE-STRESSED CONCRETE: APPLICATION OF PRE-STRESSED

INSPECTION OF REINFORCING STEEL, INCLUDING PRE-STRESSING

HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED

TENDONS, AND PLACEMENT.

APPLICATION TECHNIQUES

VERIFYING USE OF REQUIRED DESIGN MIX

DETERMINE THE TEMPERATURE OF THE CONCRETE

ERECTION OF PRECAST CONCRETE MEMBERS

CONCRETE MEMBER BEING FORMED

1705.2.2, ITEM 2B.

TABLE 1705.3 VERIFICATION AND INSPECTION OF CONCRETE

CONSTRUCTION

REFERENCED

STANDARD

ACI 318: 3.5

7.1-7.7

AWS D1.4 ACI 318: 3.5.2

ACI 318:

8.1.3, 21.1.8

ACI 318:

3.8.6, 8.1.3, 21.1.8

ACI 318: CH.4,

5.2 - 5.4

ASTM C 172

ASTM C 31

ACI 318: 5.6, 5.8

ACI 318: 5.9, 5.10

ACI 318: 5.11,

5.13

ACI 318: 18.20

ACI 318: 18.18.4

ACI 318: 18.20

ACI 318: 18.18.4

ACI 318: CH. 16

ACI 318: 6.2

ACI 318: 6.1.1

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REFERENCE

1910.4

1909.1

1909.1

1904.2, 1910.2,

1910.3

1910.10

1910.6, 1910.7,

1910.8

1910.9

CONT. | PERIODIC

CONCRETE REINFORCING

- 1. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- 2. ALL REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615 GRADE 60 KSI. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A82 GRADE 65 KSI
- 3. REINFORCING SHALL BE CONTINUOUS AROUND ALL CORNERS AND THROUGH CONSTRUCTION JOINTS UNLESS SHOWN OTHERWISE. SPACING SHOWN IS THE MAXIMUM CENTER TO CENTER DISTANCE. WHEN A TOTAL NUMBER OF BARS IS SHOWN, PLACE THEM EQUAL DISTANCES APART.
- 4. CONCRETE COVER FOR MAIN REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS, (U.N.O.):

CONC CAST AGAINST & EXPOSED TO EARTH FORMED CONC EXPOSED TO EARTH OR WEATHER NO. 6 THROUGH NO 18 BARS

- 5. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS UNLESS SHOWN OTHERWISE.
- 6. TYPICAL LAP SPLICES SHALL BE CLASS 'B' TENSION LAP SPLICES PER THE ACI. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.
- 7. SPLICES IN CROSSTIES OR HAIRPINS

NO. 5 BARS AND SMALLER

- SHALL BE MADE WITH A FULL MECHANICAL OR FULL WELDED SPLICE. DEVELOPING AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH.
- MECHANICAL SPLICE CONNECTERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW &

MIN COVER (IN)

WELDED SPLICES DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW & APPROVAL AND SHALL BE COMPLETED WITH ASTM A706 Gr 60 REINFORCING STEEL. REFERENCE AWS D1.4 FOR WELDING REQUIREMENTS.

STRUCTURAL STEEL AND WELDING

- 1. ALL STEEL FABRICATION AND ERECTION SHALL BE PER THE LATEST AISC AND AWS CODES.
- 2. STEEL PROPERTIES:

ANCHOR BOLTS = ASTM F1554 $F_v = 36$ KSI HEAVY HEX NUTS = ASTM A563WASHERS = ASTM F436

WELDING ELECTRODES = E70XX, U.N.O.

- 3. ALL BOLTS, ANCHOR BOLTS, EXPANSION/ADHESIVE ANCHORS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS TO A SNUG TIGHT CONDITION AS DEFINED BY THE AISC UNLESS NOTED OTHERWISE.
- 4. ALL EXPANSION/ADHESIVE ANCHORS SHALL HAVE AN ICC/ICBO REPORT FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE.
- 5. ALL WELDING SHALL BE COMPLETED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN INDEPENDENT TESTING AGENCY. ALL WELDING SHALL BE COMPLETED PER AMERICAN WELDING SOCIETY STANDARDS. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS.

)NS

LEGENE	AND ABBREVIA	ATIO
ACI	AMERICAN CONCRETE INSTITUTE	L
ADD'L	ADDITIONAL	LG
AISC	AMERICAN INSTITUTE	LONG
	OF STEEL CONSTRUCTION	LLH
ALT	ALTERNATE	LLV
\PPROX	APPROXIMATE	MAX
√B	ANCHOR BOLTS	MECH
\RCH	ARCHITECTURAL	MEZZ
ASTM	AMERICAN SOCIETY FOR	MFR
	TESTING MATERIAL	MIN
BTWN	BETWEEN	MISC
BLDG	BUILDING	M MTL
BLK'G	BLOCKING	
BM	BEAM	NO OR #
BOT	BOTTOM OF	NTS
BOC	BOTTOM OF CONCRETE	OC OPNG
30S	BOTTOM OF STEEL/SLAB	OPP
BRG	BEARING	OWJ
BTB	BACK TO BACK	PAR
	STEEL CHANNEL	PERP
CANT	CANTILEVER	PEMB
CIP	CAST IN PLACE	PL
CU CL	CONTROL JOINT	PREFAB
J.D.	CENTERLINE	PRELIM
CLR	CLEAR OR CLEARANCE	PT
CMU	CONCRETE MASONRY UNIT	PSI
COL	COLUMN CONCRETE	PSF
CONC	CONNECTION	REF
CONST	CONSTRUCTION	REINF
CONT	CONTINUOUS	REQ'D
CONTR	CONTRACTOR	REV
DEMO	DEMOLISH	SCHED
DET	DETAIL	SHTHG
OIA OR Ø	DIAMETER	SIM
DIM	DIMENSION	SOG
)J	DOUBLE JOIST	SPA
)BL	DOUBLE	SPEC
)WG	DRAWING	SQ
E A	EACH	STIFF
TA EF	EACH FACE	STD
IJ	EXPANSION JOINT	STRUCT
L OR ELEV	ELEVATION	SYM
MBED	EMBEDMENT	T&B
ING	ENGINEER	THRU
<u>Q</u>	EQUAL	THK
[W	EACH WAY	TO TO C
EXIST OR (E)	EXISTING	TOC
XP	EXPANSION	TOF
XT	EXTERIOR	TOS
DN	FOUNDATION	TOW
F	FINISH FLOOR	TYP UNO
TLR	FLOOR	VERT
TN TG	FINISH	
V	FOOTING FIELD VERIFY	W/ WF
SA	GAUGE	WF WWF
SALV	GALVANIZED	WWF WP
SEN	GENERAL	WT
GWB	GYPSUM WALL BOARD	V V I
ISA	HEADED STUD ANCHOR	
IORIZ	HORIZONTAL	
155	HOLLOW STRUCT STEEL	

HOLLOW STRUCT STEEL INT'L BUILDING CODE

DRAWING LEGEND

DESCRIPTION

FOOTING SYMBOL

(REFER TO FOOTING SCHEDULE)

SQUARE FOOTING SYMBOL

(REFER TO FOOTING SCHEDULE)

SHEARWALL SYMBOL

(REFER TO SHEARWALL SCHEDULE)

HOLDOWN SYMBOL

(REFER TO SHEARWALL SCHEDULE)

ELEVATION SYMBOL

ELEVATION NOTED

REVISION SPECIFIED SYMBOL

INDICATES EXTENT OF

DETAIL OR SECTION CUT SYMBOL

(DETAIL NUMBER/SHEET NUMBER)

DETAIL OR SECTION CUT IN PLAN

(DETAIL NUMBER/SHEET NUMBER)

INDICATE PLYWOOD DIRECTION

INDICATE METAL DECK DIRECTION

STRUCTURAL COMPONENTS

INTERIOR

HSS

FXX

SFXX

SWX

X'-X"

\SX.X

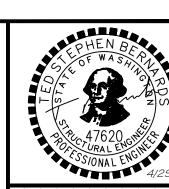
	LIGHT GAUGE
	LONGITUDINAL
	LONG LEG HORIZONTAL
	LONG LEG VERTICAL
	MAXIMUM
	MECHANICAL
	MEZZANINE
	MANUFACTURER
	MINIMUM
	MISCELLANEOUS
	MOMENT
	METAL
#	NUMBER
	NOT TO SCALE
	ON CENTER
	OPENING
	OPPOSITE
	OPEN WEB JOIST
	PARALLEL
	PERPENDICULAR
	PRE-ENGINEERED METAL BUI
	PLATE
	PREFABRICATED
	PRELIMINARY
	PRESSURE TREATED
	POUNDS PER SQUARE INCH
	POUNDS PER SQUARE FOOT
	REFERENCE
	REINFORCEMENT
	REQUIRED
	REVISION/REVISED
	SCHEDULE
	SHEATHING
	SIMILAR
	SLAB ON GROUND
	SPACE, SPACING
	SPECIFICATION(S)
	SQUARE
	STIFFENER
	STANDARD
	STRUCTURAL
	SYMMETRICAL
	TOP AND BOTTOM
	THROUGH
	THICK OR THICKNESS
	TOP OF
	TOP OF CONCRETE
	TOP OF FOOTING
	TOP OF STEEL/SLAB
	TOP OF WALL
	TYPICAL
	UNLESS NOTED OTHERWISE
	VERTICAL
	WITH
	WIDE FLANGE
	WELDED WIDE EXDDIC

WELDED WIRE FABRIC

WORK POINT

WEIGHT

STEEL ANGLE



BUILDING

eeri Engin

DRAWN BY: DESIGNED BY: QUALITY CHECK: DATE: 4/29/20 JOB NO. S20-062 **FIELDBOOK**

C

S

ORA TUR ഗ⊢ FLA. ENE

Z

COLUMN CALLOUT SYMBOL

STEPPED FOOTING SYMBOL FTG STEP— —FTG STEP TRIMMERS & KINGS SYMBOL

SHEET S1.0