



CITY OF RICHLAND Determination of Non-Significance

Description of Proposal: Construction of two (2) 12-unit apartment buildings with related

parking and infrastructure.

Proponent: Vertisee Apartments

Attn: Lionell Singleton

P.O. Box 3392 Pasco, WA 99302

Location of Proposal: The project site is located at 1156 Columbia Park

Trail, 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: September 1, 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:

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:

Please adjust the format of this template as needed. 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:

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]

1. Name of proposed project, if applicable:

Vertisee Apartments

2. Name of applicant:

Lionell Singleton

3. Address and phone number of applicant and contact person:

PO Box 3392, Pasco WA 99302

4. Date checklist prepared:

08-04-2020

5. Agency requesting checklist:

City of Richland, WA

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

First building to begin construction immediately, the second within a year.

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

No

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

None known

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.

None known

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

None known

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.)

Proposal includes plans for the construction of two 12-unit apartment buildings.

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. Parcels 1-3099-200-0009-000 and 1-3099-200-0010-000, 1156 Columbia Park Trail, Richland, WA, Benton County, S30 T09N R29E

B. Environmental Elements [HELP]

1. Earth	hel	p
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a. General description of the site:

(circle one): I	Flat (rolling) h	illy, steep slopes,	mountainous, other	
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b. What is the steepest slope on the site (approximate percent slope)?

15 percent

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.

Per geotechnical report, silty sand and gravel, with 2-10 ft of uncontrolled fill present on site. Per NRCS, not prime farmland, with no intended agricultural use.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. No signs of instability for indigenous soil. Poorly compacted uncontrolled fill will be removed from site.
- 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.

Site will be graded to remove uncontrolled fill and level site, approximately 55,000 sf affected area and 465 cu yds cut, to be disposed of off site.

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

 Yes, erosion could occur due to rain on unprotected slopes during construction and due to wind on unstabilized soils.
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

75 percent covered by buildings and pavement.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: BMP's such as silt fences and water trucks will be used on site during construction. All disturbed areas will be stabilized upon project completion.

2. Air [help]

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.

Emissions include dust and exhaust during construction, with minimal emissions

after completion associated with residential use.

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

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any: Apply water during construction to control dust and stabilize soils after construction.

3. Water [help]

- a. Surface Water: [help]
 - 1) 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.

Site is approximately 500 ft from confluence of the Yakima and Columbia Rivers, separated by an adjacent private property and a levee owned by the Corp of Engineers.

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.

No

3) 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.

None

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

No

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

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.

No

- b. Ground Water: [help]
 - 1) 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.

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.

None

- c. Water runoff (including stormwater):
 - 1) 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.

Stormwater runoff from apartment roofs and paving areas will drain to catchbasins and be infiltrated below ground via infiltration trenches.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No

3) 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:

Site will be graded to retain stormwater on site and best management practices in the Stormwater Management Manual for Eastern Washington will be used during construction.

- 4. Plants [help]
- a. Check the types of vegetation found on the site:

e 	eciduous tree: alder, maple, aspen, other vergreen tree: fir, cedar, pine, other nrubs rass asture rop or grain Orchards, vineyards or other permanent crops. vet soil plants: cattail, buttercup, bullrush, skunk cabbage, other ater plants: water lily, eelgrass, milfoil, other ther types of vegetation
Trees	and amount of vegetation will be removed or altered? , shrubs, and grasses will be cleared in grading areas g construction.
c. List threate	ned and endangered species known to be on or near the site. known
	andscaping, use of native plants, or other measures to preserve or enhance on the site, if any:
	scaped areas will use native plants to enhance vegetation pen areas on site.
e. List all noxi	ous weeds and invasive species known to be on or near the site.
None	known
5. Animals	[help]
	ds and other animals which have been observed on or near the site or are known on or near the site.
Examp	oles include:
	birds: hawk heron, eagle songbirds other: mammals: deer, bear, elk, beaver, other: fish: bass, salmon, trout, herring, shellfish, other
	eatened and endangered species known to be on or near the site. known
c. Is the site p	art of a migration route? If so, explain.
Yes,	the area is part of the Pacific Flyway.
d. Proposed m	neasures to preserve or enhance wildlife, if any:
e. List any inv	asive animal species known to be on or near the site.

None known

6. Energy and Natural Resources [help]

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.

Electricity will be used for heating, cooling, lights, and household appliances.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

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:

Project will follow energy code requirements.

7. Environmental Health [help]

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.

No

1) Describe any known or possible contamination at the site from present or past uses.

None known

2) 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.

There is an existing gas transmission line on the opposite side of Columbia Park Trail, but it will not be affected by this project.

 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.

Only typical emergency services such as police, ambulance, and fire will be required.

5) Proposed measures to reduce or control environmental health hazards, if any:

None

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? Street noise from local roads or water traffic noise from nearby river, the project will not be affected.
- 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. Typical construction noises will be present during construction phase of project, with minimal noise after
- completion associated with residential use.

 3) Proposed measures to reduce or control noise impacts, if any:

None

8. Land and Shoreline Use [help]

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.

Existing lots are empty/unused. Adjacent lots uses are residential and commercial, and will not be affected by this project.

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 nonforest use?

No

1) 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

c. Describe any structures on the site.

There is an existing, unused residential building on site.

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

Yes, existing residential building will be demolished.

e. What is the current zoning classification of the site?

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WF (Waterfront)
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f. What is the current comprehensive plan designation of the site?

Waterfront

g. If applicable, what is the current shoreline master program designation of the site?

N/A

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. Site is within floodplain boundary according to the City of Richland.
- i. Approximately how many people would reside or work in the completed project?

Approximately 75 people would reside in completed apartments (assuming an average of 3 people per apartment unit).

j. Approximately how many people would the completed project displace?

No people would be displaced.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None, project is already compatible with intended use.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

None

9. Housing [help]

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
 - 24 housing units, middle to high income
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

One middle-income housing unit, currently not used

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

None

10. Aesthetics [help]

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?
 - 38 ft max height, exterior building materials composed of fiber cement panels with wood trim.
- b. What views in the immediate vicinity would be altered or obstructed?

 Structures would alter view of existing lot itself for adjacent residential and commercial properties, and partially obscure view of existing levee from Columbia Park Trail. b. Proposed measures to reduce or control aesthetic impacts, if any:

None

11. Light and Glare [help]

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

Some exterior yard and security lighting typical of apartment buildings, occurring mainly at night.

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

No

c. What existing off-site sources of light or glare may affect your proposal?

None

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

None

12. Recreation [help]

- a. What designated and informal recreational opportunities are in the immediate vicinity?
- b. Would the proposed project displace any existing recreational uses? If so, describe.

No

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

None

13. Historic and cultural preservation [help]

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? If so, specifically describe.

None known

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.

None known

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.

None

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.

If any items of historic, cultural, or archaeological significance are uncovered during construction, the work will be stopped and the appropriate authorities will be notified.

14. Transportation [help]

 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.

Closest public street is Columbia Park Trail. A new driveway will be constructed to provide access to the site.

b. 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?

Yes, a local bus stop is located within 100 ft of proposed driveway.

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

36 new parking spaces will be provided, and none eliminated.

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).

Nο

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

No

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 nonpassenger vehicles). What data or transportation models were used to make these estimates?

Per ITE Code 220, an average of 209 trips per day will be generated.

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.

Nο

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

None

15. Public Services [help]

- 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.

 Yes, proposed project will increase needs associated with residential use, including fire, police, emergency, healthcare, and school services.
- b. Proposed measures to reduce or control direct impacts on public services, if any.

None

16. Utilities [help]

a.	Circle utilities of	currently availabl	le at the site:		
<	electricity, natur	al gas water re	efuse service telep	phone sanitary sewer	septic system
	other				

c. 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.

Proposed utilities include water and sewer (City of Richland), electricity (Richland Energy Services), cable (Spectrum), and telephone (Ziply). Some utilities will need to be extended to site from Columbia Park Trail.

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: Amill Smyll
Name of signee Lionell Singleton
Position and Agency/Organization Managers Partner World Builder LLC
Date Submitted: 8-17-20
D. Supplemental sheet for nonproject actions [HELP]

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Proposed measures to avoid or reduce such increases are:

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

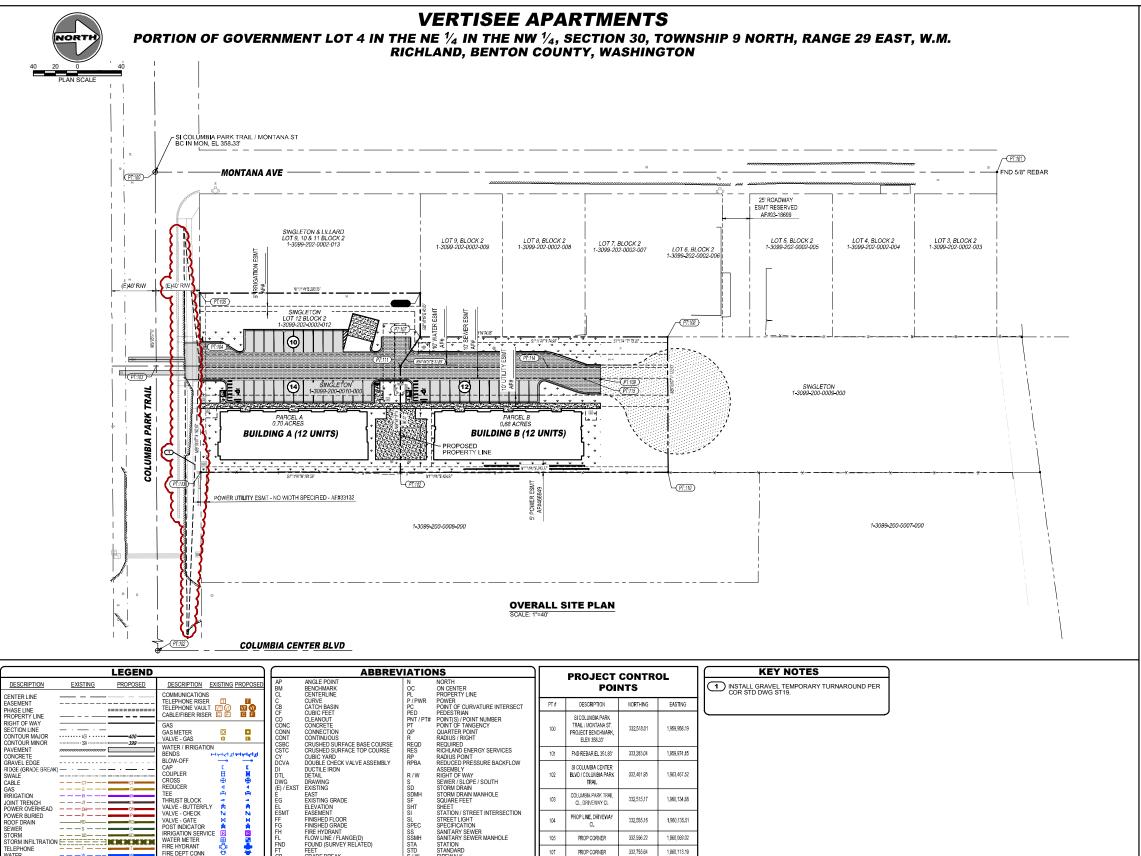
3. How would the proposal be likely to deplete energy or natural resources?

Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks,

	cultural sites, wetlands, floodplains, or prime farmlands?
	Proposed measures to protect such resources or to avoid or reduce impacts are:
5.	How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?
	Proposed measures to avoid or reduce shoreline and land use impacts are:
6.	How would the proposal be likely to increase demands on transportation or public services and utilities?
	Proposed measures to reduce or respond to such demand(s) are:
7.	Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

July 2016



PROP LINE, DRIVEWA

PROP CORNER

PROP CORNER

PROP CORNER PROP CORNER, DRIVEWAY CL

PROP CORNER PROP CORNER

PROP CORNER PROP CORNER 1,960,135.5

1,960,069.02

1,960,117.88

1,960,155.10

1,960,240.79

1,960,235.72

1,960,231,93

332,555.16

SHEET STATION / STREET INTERSECTION

STATION / STREET INTERSEC'STREET LIGHT SPECIFICATION STREET LIGHT SPECIFICATION SANITARY SEWER MANHOLE STATION STANDARD STANDARD

TYPICAL TELEVISION / CABLE

UTILITY VERTICAL WEST WATER WATER METER

W / WTR WM

ALVE - CHECK

RE DEPT CONN

RYWELL - STORM

•

GRADE BREAK

HORIZONTAL HOT MIXED ASPHALT HIGH POINT INVERT ELEVATION

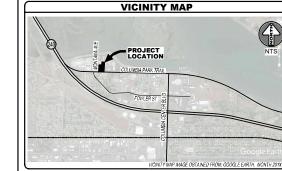
MAXIMUM
MANHOLE
MINIMUM
MECHANICAL JOINT
MANUAL ON UNIFORM TRAFFIC
CONTROL DEVICES
NEW

-

POWER / LIGHTING

DISCONNECT JUNCTION BOX PULL BOX / HAND HOLE

METER TRANSFORMER VAULT UTILITY POLE PARKING LOT LIGHT STREET LIGHT



SURVEYOR

2245 ROBERTSON DRIVE RICHLAND, WA 99354

DATUM - BENCHMARK HORIZONTAL DATUM: NAD

COORDINATE SYSTEM, SOUTH ZONE VERTICAL DATUM: NAVD88 BENCHMARK: BC MON, COLUMBIA PARK TRAIL & MONTANA AVE, EL 358.3:

REFERENCE MATERIALS

- CITY OF RICHLAND GIS MAP, CAD FILE CPT DEVELOPMENT.DWG RECEIVED 07-13-2018, CITY OF RICHLAND.
- . SITE PLAN BY ANKROM MOISAN ARCHITECTS INC, RECEIVED 01-14-2020.
- GEOTECHNICAL SITE INVESTIGATION REPORT, PREPARED BY GN NORTHERN INC. DATED 06-05-2018.

HARMS

SITE INFORMATION

48.000 SF

E) PERVIOUS AREA. E) IMPERVIOUS AREA 27,728 SF 13,217 SF

TOTAL SITE AREA:

CUT - FILL QUANTITIES

NOTE: CUT/FILL QUANTITIES ARE APPROXIMATE AND CALCULATED TO TOP OF FINISHED GRADE AND DO NOT ACCOUNT FOR ANY OVEREXCAVATION OF UNCLASSIFIED FILL. REFER TO GEOTECH NOTES ON SHEET C4

IDENTIFIERS

A = DETAIL NUMBER B = SHEET REFERENCE AB A = SHEET REFERENCE B = FITTING NUMBER

DRAWING INDEX

UTILITY CONTACT INFORMATION

FIBER OPTIC: NOANET, DAN WICKERSHAM, 509-456-3619

CABLE: SPECTRUM COMMUNICATIONS, JUNIOR CAMPOS 509-222-2577 639 N KELLOGG ST, KENNEWICK, WA 99336

GAS: CASCADE NATURAL GAS, SARA PINEDA 509-405-6377 200 N UNION ST, KENNEWICK, WA 99336

IRRIGATION: COLUMBIA IRRIGATION DISTRICT, LILA FRESHMENT 509-586-6118 10 E KENNEWICK AVENUE, KENNEWICK, WA 99336

TELEPHONE: FRONTIER COMMUNICATIONS, JOE CICHY 509-736-3722 4916 W CLEARWATER AVE, KENNEWICK, WA 99336

SEWER / WATER: CITY OF RICHLAND PUBLIC WORKS, JUDY GARCIA 509-545-344 PO BOX 190, 840 NORTHGATE DR, RICHLAND, WA 99352

CITY ENGINEER APPROVAL

SIGNATURE

DATE

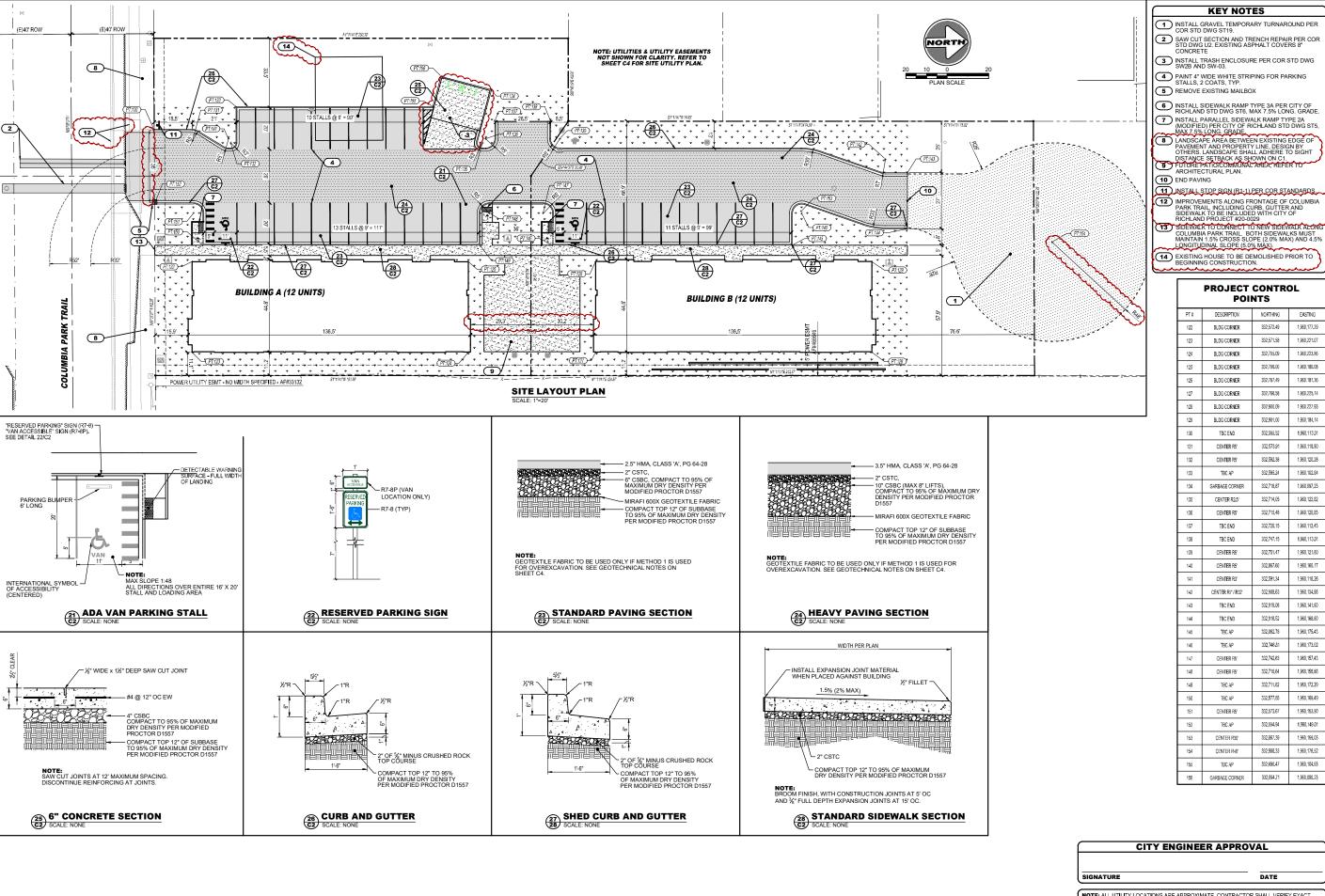
NOTE: ALL UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH UTILITY COMPANIES PRIOR TO TRENCHING.

CALL 2 BUSINESS DAYS BEFORE YOU DIG: 811

03-11-2020 18-050.2 C1

WORLD BUILDER, LLC LIONEL SINGLETON

진료활



KEY NOTES

- install gravel temporary turnaround per COR STD DWG ST19.
- 2 SAW CUT SECTION AND TRENCH REPAIR PER COR STD DWG UZ. EXISTING ASPHALT COVERS 8" CONCRETE
- 3 INSTALL TRASH ENCLOSURE PER COR STD DWG SW2B AND SW-03.
- PAINT 4" WIDE WHITE STRIPING FOR PARKING STALLS, 2 COATS, TYP.
 REMOVE EXISTING MAILBOX
- 6 INSTALL SIDEWALK RAMP TYPE 3A PER CITY OF RICHLAND STD DWG ST6, MAX 7.5% LONG. GRADE

AT NOW A

Rev D

- RICHLAND STD DWG ST6, MAX 7.5% LONG, GRADE.

 7 INSTALL PARALLEL SIDEWALK RAMP TYPE 2A (MODIFIED) PER CITY OF RICHLAND STD DWG ST5, MAX 1.5% LONG, GRADE.

 8 LANDSCAPE AREA BETWEEN EXISTING EDGE OF PAVEMENT AND PROPERTY LINE. DESIGN BY OTHERS, LANDSCAPE SHALL ADHERE TO SIGHT DISTANCE SETBACK AS SHOWN ON C1.

 9 FUTURE PATIOLOGMINAL AREA, REFER TO ARCHITECTURAL PLAN.
- ARCHITECTURAL PLAN.
- 11 INSTALL STOP SIGN (R1-1) PER COR STANDARDS.

	PROJECT POI	CONTRO	OL
PT#	DESCRIPTION	NORTHING	EASTING
122	BLDG CORNER	332,572.49	1,960,177.29
123	BLDG CORNER	332,571.58	1,960,221.07
124	BLDG CORNER	332,705.09	1,960,223.86
125	BLDG CORNER	332,706.00	1,960,180.08
126	BLDG CORNER	332,767.49	1,960,181,36
127	BLDG CORNER	332,766.58	1,960,225.14
128	BLDG CORNER	332,900.09	1,960,227.93
129	BLDG CORNER	332,901.00	1,960,184,14
130	TBC END	332,555,52	1,960,113.0
131	CENTER R5'	332,573.91	1,960,118.90
132	CENTER R5'	332,592.38	1,960,120.28
133	TBC AP	332,595.24	1,960,102.84
134	GARBAGE CORNER	332,718,87	1,960,097,25
135	CENTER R2.5'	332,714.05	1,960,122,82
136	CENTER R5'	332,715.48	1,960,120.85
137	TBC END	332,720.15	1,960,112.45
138	TBC END	332,747.15	1,960,113.0
139	CENTER R5'	332,751.47	1,960,121.60
140	CENTER R5'	332,867.60	1,960,160.17
141	CENTER R3'	332,591,34	1,960,118,26
142	CENTER R7' / R32'	332,908.63	1,960,134.88
143	TBC END	332,919.08	1,960,141.60
144	TBC END	332,918.52	1,960,168.60
145	TBC AP	332,862.78	1,960,175.43
146	TBC AP	332,746.81	1,960,173.02
147	CENTER R5'	332,742,63	1,960,157,43
148	CENTER R5'	332,716.64	1,960,156.88
149	TBC AP	332,711.82	1,960,172.29
150	TBC AP	332,577.85	1,960,169.49
151	CENTER R5'	332,573.67	1,960,153.90
152	TBC AP	332,554.94	1,960,149.0
153	CENTER R30'	332,867.39	1,960,159,03
154	CENTER R46°	332,988.33	1,960,176.52
155	TBC AP	332,690.47	1,960,104.83

CITY ENGINEER APPROVAL

DATE

NOTE: ALL UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH UTILITY COMPANIES PRIOR TO TRENCHING.

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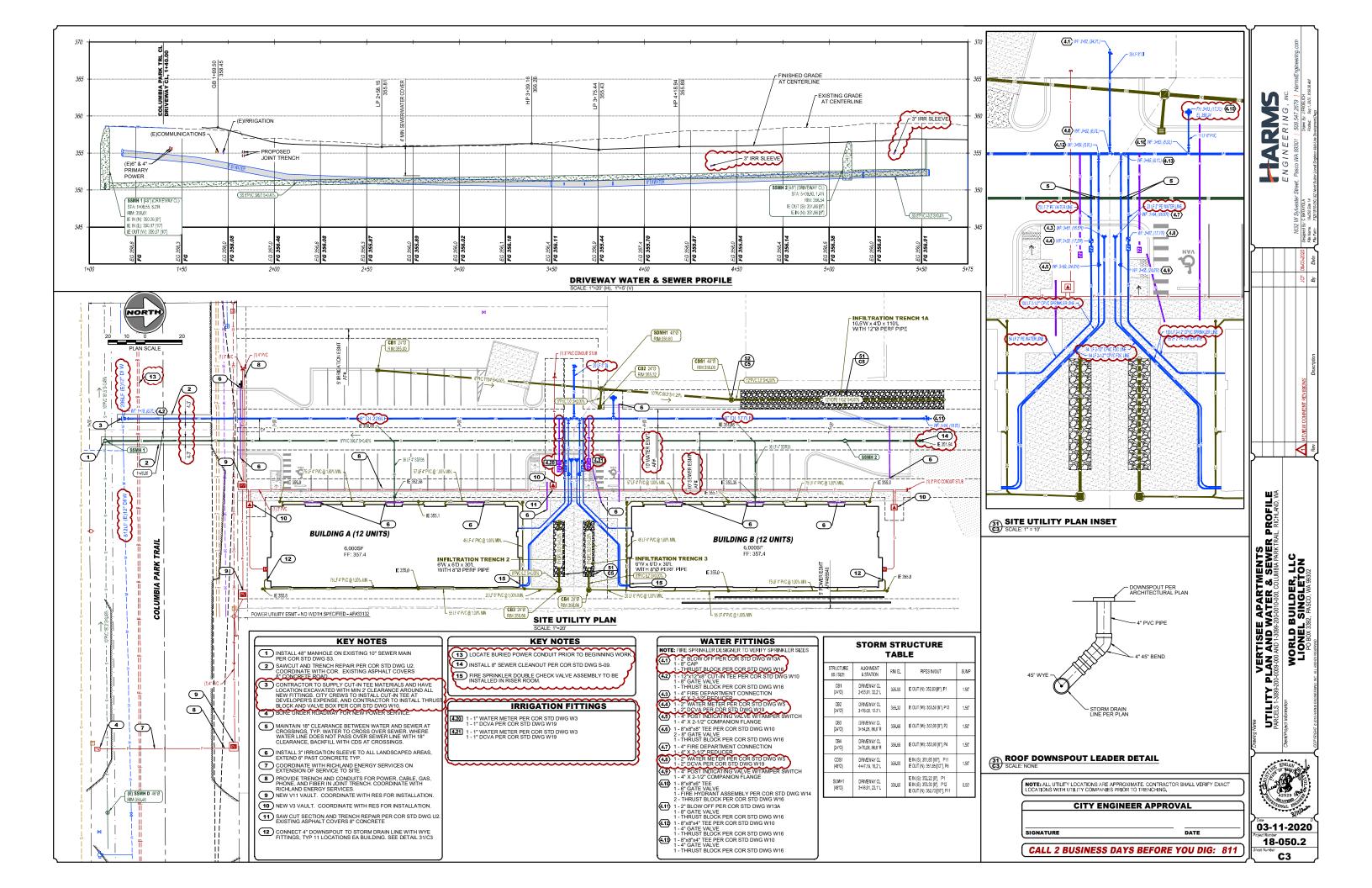


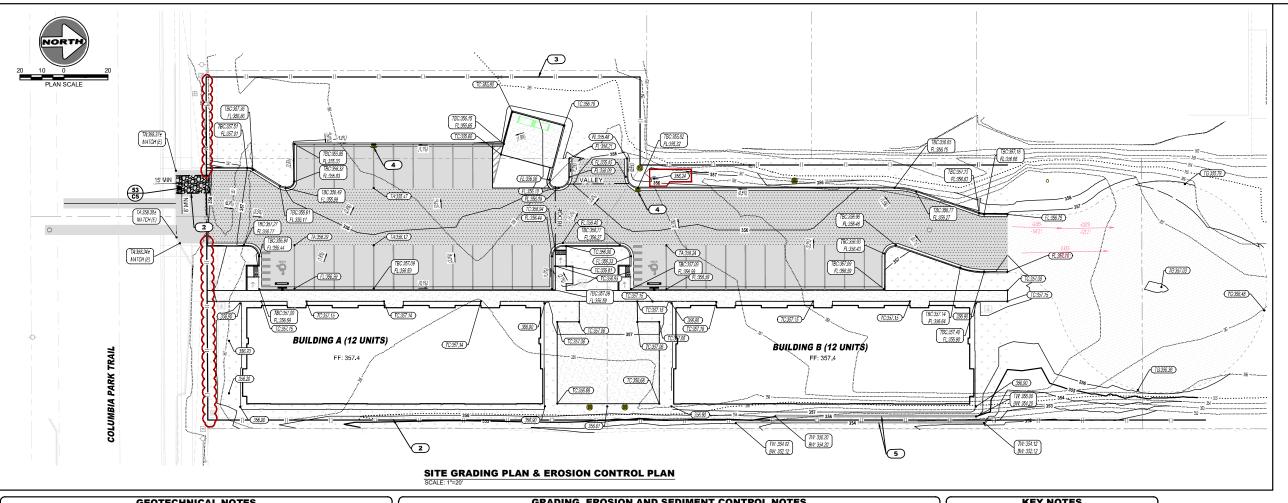
VERTISEE APARTMENTS
LAYOUT PLAN AND DETAILS
D00000 AND 13089200-0010-000. COLUMBA PARKTRAL, RICH

SITE 3099-200-000

MORLD BUILDER, LLC LIONEL SINGLETON PO BOX 339 PACO WA 6970

03-11-2020 18-050.2 C2





GEOTECHNICAL NOTES

GEOTECHNICAL ENGINEER TO MONITOR OVER-EXCAVATION AND SUBGRADE PREP.

A GEOTECHNICAL REPORT WAS PREPARED FOR THIS SITE BY GN NORTHERN, INC., PROJECT NO. 218-940, DATED JUNE 2018. REFER TO THE REPORT FOR THE FULL INVESTIGATION AND RECOMMENDATIONS.

- THE SITE HAS VARYING LEVELS OF UNDOCUMENTED/AIRONS.

 THE SITE HAS VARYING LEVELS OF UNDOCUMENTED/JUNCONTROLLED FILL ACROSS THE SITE, FROM APPROXIMATELY 2-3 FT DEEP IN THE SOUTH THIRD OF THE SITE AND 6-10 FT DEEP IN THE NORTHERN TWO THIRDS OF THE SITE. FILL MATERIAL CLASSIFIED AS SILTY SANDY GRAVELS WITH VARYING AMOUNTS OF COBLES AND BOULDERS AND SOME MISCELLANEOUS ASPHALT, CONCRETE, BRICK, AND METAL DEBRIS.
- NATIVE SOILS PRIMARILY CONSIST OF SILTY SAND GRADING TO INCLUDE COBBLES/BOULDERS, BECOMING SILTY SANDY GRAVEL AT DEPTH.
- GROUNDWATER IS ESTIMATED TO BE APPROXIMATELY 10 FEET BELOW GROUND SURFACE.
- SUBGRADE PREP:
- 6.1. REMOVE EXISTING TOPSOIL AND ORGANICS. TOPSOIL MAY BE STOCKPILED FOR USE IN LANSCAPED AREAS.
- 6.2. OVEREXCAVATION:
- IN BUILDING FOOTPRINT AREAS AND DRIVEWAY PAVEMENT AREAS: OVER-EXCAVATE SOIL TO COMPLETELY REMOVE ALL UNCONTROLLED FILL, INCLUDING A MINIMUM 5-FOOT LATERAL OFFSET: OVER-EX SHALL EXPOSE NATIVE UNDERLYING SUITY SAND SOILS. 6.2.1.
- 6.2.2. IN PARKING LOT AREAS:
- 6.2.2.1. METHOD 1: OVER-EXCAVATE SOIL TO REMOVE A MINIMUM OF 18" OF ARTIFICIAL SOIL AND INSTALL MIRAFI 600X
 GEOTEXTILE FABRIC AT THE BOTTOM OF
 THE OVER-EX (SEE GEOTECHNICAL
 REPORT FOR ASSUMED RISKS FOR
 METHOD 1).
- METHOD 2: OVER-EXCAVATE SOIL TO COMPLETELY REMOVE ALL UNCONTROLLED FILL INCLUDING A MINIMUM \$-FOOT LATERAL OFFSET. OVER-EX SHALL EXPOSE NATIVE UNDERLYING SILTY SAND AND SOILS.

- BACKFILL OVER-EX WITH ENGINEERED STRUCTURAL FILL CONSISTING OF SUITABLE/SCREENED ONSITE SOIL AND/OR 2-INCH MINUS GRAVEL BORROW MATERIAL.
- BACKFILL OVER-EX WITH ENGINEERED STRUCTURAL FILL CONSISTING OF SUITABLE/SCREENED ONSITE SOIL AND/OR 2-INCH MINUS GRAVEL BORROW MATERIAL.
- PLACE A MINIMUM OF 12" OF IMPORTED 1 ½" MINUS CRUSHED ROCK BENEATH ALL FOUNDATIONS, AND 6 INCHES OF ½" MINUS CRUSHED ROCK BENEATH SLABS ON GRADE.
- 7.1. EXISTING SANDY SOILS MAY BE USED FOR STRUCTUAL FILL OR BACKFILL INCLUDING FOR UTILITY BACKFILLING PROVIDED ALL ORGANICS, DEBRIS, AND ANY OTHER DELETERIOUS MATERIALS HAVE BEEN REMOVED.
- STRUCTURAL FILL AND BACKFILL SHOULD BE PLACED IN MAXIMUM 8-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D 1557.
- IMPORTED FILL SHOULD BE A 1½ MINUS PIT RUN SAND AND GRAVEL WITH LESS THAN 5 PERCENT FINES, OR CRUSHED ROCK.
- COMPACT ALL BASE COURSES BELOW PAVEMENTS TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D 1557.
- THE NEAR SURFACE SILTY SAND IS MOISTURE SENSITIVE. REFER TO GEOTECH REPORT FOR RECOMMENDATIONS FOR EARTHWORK INCLUDING DURING WET WEATHER.
- CONTRACTOR IS REPONSIBLE FOR THE TEMPORARY EXCAVATION SLOPE AND SAFETY OF ALL TEMPORARY EXCAVATIONS BASED ON EXPOSED GROUND
- REMOVE ALL ORGANIC MATERIAL AND ROCKS/CONCRETE DEBRIS FROM MATERIAL USED AS FILL AND DISPOSE OF OFF-SITE.
- 12. MATERIAL PLACED AS FILL SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND PLACED IN MAXIMUM 8" LOOSE LIFTS. COMPACT EACH LIFT TO 95% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (D1557).
- 13. TEST COMPACTION AT APPROXIMATELY ONE TEST PER LIFT PER 500 SF.

GRADING, EROSION AND SEDIMENT CONTROL NOTES

- EROSION AND SEDIMENT CONTROL:

 1. THIS PROJECT MAY REQUIRE COVERAGE UNDER THE WASHINGTON STATE GENERAL INPES PHASE II PERMIT FOR CONSTRUCTION PROJECTS. THE DEVELOPER SHALL BE RESPONSIBLE FOR COMPILANCE WITH THE PERMIT CONDITIONS. THE CITY HAS ADOPTED REVYSED STANDARDS AFFECTING THE CONSTRUCTION OF NEW STORMWATER FACILITIES IN ORDER TO COMPLY WITH CONDITIONS OF ITS NPOSE SENERAL MUNICIPAL STORMWATER PERMIT PROGRAM. THIS PROJECT, AND EACH PHASE THEREOF, SHALL ALSO COMPLY WITH THE REQUIREMENTS OF THE CITY'S STORMWATER PROGRAM IN PLACE AT THE TIME EACH PHASE IS ENGINEERED.
- ALL CONSTRUCTION PROJECTS THAT DON'T MEET THE EXEMPTION REQUIREMENTS SHALL COMPLY WITH THE NPDES PERMIT. ALL CONSTRUCTION ACTIVITIES SUBJECT TO THIS TITLE SHALL COMPLY WITH THE STORMWATER MANAGEMENT MANUAL AND PREPARE A STORMWATER SITE PLAN.
- ALL BEST MANAGEMENT PRACTICES USED FOR STORMWATER TREATMENT OF FLOW CONTROL SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON.
- CONTRACTOR TO INSTALL ALL BEST MANAGEMENT PRACTICES (BMP'S) PRIOR TO BEGINNING SITE CONSTRUCTION.
- ALL BMP'S ARE TO BE INSPECTED AND MAINTAINED DAILY DURING CONSTRUCTION.
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE PER COR STD DWG S16, SHEETS 1-3.
- ALL VEHICLES LEAVING SITE ARE REQUIRED TO USE CONSTRUCTION ENTRANCES TO WASH WHEELS FOR MUD AND DUST CONTROL FROM LEAVING SITE.
- EXISTING CATCH BASINS WITH POTENTIAL OF RECEIVING RUN-OFF FROM SITE CONSTRUCTION ARE TO BE PROTECTED WITH AN APPROVED BMP, PER COR STD DWG S16, SHEETS 1-3. LOCATIONS SHOWN ON PLAN.
- ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE COVERED WITH FILTER FABRIC TO PREVENT SEDIMENT ENTERING THE SYSTEM. THE FILTER FABRIC SHALL BE INSPECTED REGULARLY AND CLEANED WHEN NEEDED.
- CONTRACTOR TO MINIMIZE DISTURBANCE FROM THEIR NATURAL STATE OF AREAS OUTSIDE STREETS, UTILITIES AND CONSTRUCTION STAGING AREAS.
- CONSTRUCTION BYPRODUCTS (OILS, SOLVENTS, GLUES, ETC.) AND EXCESS MATERIALS (CONCRETE, ASPHALT, PAINT, ETC.) TO BE REMOVED FROM SITE AND DISPOSED OF PROPERLY.

- CONTRACTOR TO INSTALL AND IMPLEMENT ADDITIONAL BMP'S AS SITE CONDITIONS OR FIELD CHANGES NECESSITATE. ALL CHANGES OR ADDITIONS TO THE EROSION CONTROL OR BMP'S ARE TO BE RELAYED AND COORDINATED THROUGH THE CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROPERTIES ADJACENT TO THE PROJECT SITE THAT ARE SUBJECT TO
- PROFER ILES ADMINISTRATED BY CONSTRUCTION ACTIVITIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION THROUGH THE USE OF SILT FENCE OR OTHER BWP SELECTED BY THE CONTRACTOR. THE CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT-LADEN RUNOFF FROM DISCHARGING FROM THE PROJECT SITE, FAILURE TO DO SO CAN RESULT IN A FINE.
- ALL DISTURBED SOILS, INCLUDING STOCKPILES, EXPOSED AND/OR UNWORKED FOR MORE THAN THE TIME PERIODS DESCRIBED BELOW: 30 DAYS (JULY 1 THRU SEPT 30) 15 DAYS (OCTOBER 1 THRU JUNE 30) SHALL BE PROTECTED FROM EROSION.
- INSTALL SILT FENCE WITH BACKUP SUPPORT PER COR STD DWG S16, SHEETS 1-3. SILT FENCE TO BE LAYFIELD WBSF-124 WIREBACKED CONTINUOUS ROLL.
- WATER OR USE A SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL.
- . ALL DISTURBED AREAS SHALL BE STABILIZED WITH A MINIMUM OF 4" OF 1½" MINUS CRUSHED ROCK (CSBC) OR BE HYDROSEEDED. HYDROSEED SHALL BE APPLIED AT 60 LBSIACRE WITH THE FOLLOWING SEEDING MIX: 40% ANNUAL RYEGRASS, 20% BLUE BUNCH WHEAT GRASS, 20% THICKSPIKE WHEAT GRASS, AND 20% SANDBERGS GRASS. ADDITIONALLY THE HYDROSEEDING SHALL INCLUDE 2,000 LBSIACRE OF WOOD FIBER MULCH AND 50 LBSIACRE OF GUAR BASED ACKIFIER.

KEY NOTES

- INSTALL STABILIZED CONSTRUCTION ENTRANCE PER COR STD DWG S16.
- 3 INSTALL 450 LF OF SILT FENCE PER COR STD DWG S16.
- 5 2 TERRACED LANDSCAPE RETAINING WALL. 205LF BY OTHERS.

2 INSTALL 556 LF OF SILT FENCE PER COR STD DWG S16.

(4) INSTALL INLET PROTECTION PER COR STD S16

CITY ENGINEER APPROVAL

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CALL 2 BUSINESS DAYS BEFORE YOU DIG: 811



MORLD BUILDER, LLC LIONEL SINGLETON VERTISEE / GRA SITE

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NOTES

- CITY OF RICHLAND GENERAL NOTES (UPDATED JANUARY 8, 2016):

 1. ALL CONSTRUCTION WORK AND MATERIALS ARE TO BE IN CONFORMANCE
- ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, UTILITY EASEMENT, OR INVOLVING THE CONSTRUCTION OF PUBLIC INFRASTRUCTURE WILL REQUIRE THE APPLICANT TO OBTAIN A RIGHT-OF-WAY PERMIT PRIOR TO CONSTRUCTION. A PLAN REVIEW AND INSPECTION FEE IN THE AMOUNT EQUAL TO 50 OF THE CONSTRUCTION COSTS OF THE WORK THAT WILL BE ACCEPTED AS PUBLIC INFRASTRUCTURE OR IS WITHIN THE RIGHT-OF-WAY OR EASEMENT WILL BE COLCETED AT THE TIME THE PERMIT IS ISSUED. A STAMPED, ITEMIZED ENGINEERS ESTIMATE (OPINION OF PROBABLE COST) SHALL BE ILSED TO CAL GUI AFT THE 5% FEF SHALL BE USED TO CALCULATE THE 5% FEE.
- ONCE THE PLANS HAVE BEEN ACCEPTED BY THIS DEPARTMENT, A PRE-CONSTRUCTION CONFERENCE WILL BE REQUIRED PRIOR TO THE START OF ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT. CONTACT THE CIVIL AND UTILITY ENGINEERING DIVISION AT 942-7500 OR 942-7742 TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.
- WHEN CONSTRUCTION OF THE INFRASTRUCTURE HAS BEEN SUBSTANTIALLY WHEN CONSTRUCTION OF THE INFRASTRUCTURE HAS BEEN SUBSTANTIALLY COMPLETED, THE APPLICANT SHALL PROVIDE 3 MIL MYLAR RECORD DRAWINGS TO THE CITY, AND ALSO AN ELECTRONIC COPY OF SAID RECORD DRAWINGS IN A FORMAT COMPLIANT WITH THE CITY'S CADD SOFTWARE. THE MYLAR RECORD DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL BUSINESS OF THE STAMPED BY A PROFESSIONAL BUSINESS OF THE STAMPED BY A PROFESSIONAL BUSINESS OF THE STAMPED BY THE STAMPED BY A PROFESSIONAL BUSINESS OF THE STAMPED BY THE STREET LIGHTS ARE ALSO REQUIRED PRIOR TO THE FINAL INSPECTION.
- NO WORK ON THIS PROJECT SHALL COMMENCE UNTIL A CITY OF RICHLAND RIGHT-OF-WAY CONSTRUCTION PERMIT HAS BEEN ISSUED.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE LICENSED BY THE STATE OF WASHINGTON AND BONDED TO DO WORK IN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL HAVE A CURRENT CITY OF RICHLAND BUSINESS LICENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION DEFICIENCIES FOR A PERIOD OF ONE-YEAR FROM THE DATE OF ACCEPTANCE BY THE CITY OF RIGHLAND.
- THE CONTRACTOR SHALL BE REQUIRED TO CALL 1-800-424-5555 OR "811" A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION ACTIVITIES TO DETERMINE FIELD LOCATIONS OF ALL UNDERGROUND UTILITIES.
- ANY CHANGES OR MODIFICATIONS TO THE PROJECT PLANS SHALL FIRST BE APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE.
- THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED WITH THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE FACE OF CURB SHALL BE STAMPED AT ALL UTILITY CROSSINGS, MAIN LINES AND SERVICE LINES AS FOLLOWS: "S'-SANITARY SEWER, "I"-IRRIGATION, "G'-GAS, "W"-WATER, "C"-CONDUITS, "SD"-STORM DRAIN.
- ALL FIRE HYDRANTS AND GUARD POSTS SHALL BE PAINTED OSHA SAFETY YELLOW, QUICKSET ENAMEL NO. 3472 HYDRANT YELLOW AS MANUFACTURED BY FARWEST PAINT MANUFACTURING COMPANY OR APPROVED EQUAL.
- FIRE HYDRANTS AND STREET LIGHTS SHALL BE INSTALLED AT 2-FEET BEHIND THE BACK OF SIDEWALK TO THE FACE OF EQUIPMENT WHERE THE SIDEWALK IS ADJACENT TO THE CURB AND 6-FEET BEHIND THE BACK OF CURB WHERE THE SIDEWALK IS NOT ADJACENT TO THE CURB UNLESS OTHERWISE NOTED ON THE PLANS.
- ANY DAMAGED OR BADLY DETERIORATED CONCRETE CURB, GUTTER AND SIDEWALK WITHIN PUBLIC RIGHT OF WAY SHALL BE REMOVED AND REPLACED. THIS INCLUDES ANY CURB DAMAGED BY CONSTRUCTION EQUIPMENT DURING THE PROJECT.
- 2-INCHES OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED BENEATH ALL SIDEWALKS PRIOR TO PLACEMENT OF CONCRETE.
- ALL STORM DRAINAGE MANHOLES SHALL BE CONSTRUCTED WITH A "SUMP" IN THE BOTTOM OF THEM, IN ACCORDANCE WITH THE STANDARD DETAILS.
- IRRIGATION VALVE BOXES OR LIDS WITHIN THE ROADWAY OR PUBLIC RIGHT-OF-WAY NEED TO BE PER CITY OF RICHLAND SPEC: "RICH 931" CAST IRON LID SHALL HAVE "IRR" CAST INTO TOP.
- A MINIMUM HORIZONTAL SEPARATION OF TEN-FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SEWER MAINS AND SERVICE LINES. WATER MAINS SHOULD CROSS OVER THE TOP OF SEWER MAINS WITH A MINIMUM VERTICAL SEPARATION OF 18-INCHES. ANY CROSSING WITH A VERTICAL SEPARATION OF 18-INCHES. ANY CROSSING WITH A VERTICAL SEPARATION OF 18-INCHES. ANY CROSSING WITH A VERTICAL SEPARATION OF 18-INCHES. ANY CROSSING IN WHICH THE WATER MAIN CROSSES BLOW THE SEWER MAIN SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY STANDARDS. PRESSURIZED SEWER MAINS SHALL NOT CROSS OVER POTABLE WATER MAINS IN ANY CASE. IF A MINIMUM VERTICAL SEPARATION OF 12 CANNOT BE MAINTAIN EPICES, COF OR CONCRETE SHALL BE USED AS BACKFILL IN PLACE OF NATIVE SOLLS OF GRAVEL.

- RESIDENTIAL SEWER SERVICES SHALL BE 4-INCHES IN DIAMETER AND SHALL EXTEND 10-FEET BEYOND THE RIGHT-OF-WAY INTO THE LOT. THE END SHALL BE MARKED WITH A MARKER POST INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAILS.
- RESIDENTIAL WATER SERVICES SHALL BE 1-INCH IN DIAMETER AND SHALL EXTEND 1-FOOT BEYOND THE BACK OF SIDEWALK THROUGH THE CURB STOP. THE END SHALL BE MARKED WITH A BLUE MARKER POST INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAILS.
- THE CONTRACTOR SHALL TAKE ANY NECESSARY MEANS TO KEEP FROM TRACKING MUD AND DEBRIS OUT ONTO THE EXISTING STREETS, AND SHALL ALSO KEEP MUD AND ANY OTHER DEBRIS FROM HIS SITE FROM ENTERING THE EXISTING PUBLIC STORM DRAINAGE SYSTEM.
- THE CONTRACTOR SHALL SUPPLY A DUST CONTROL PLAN PRIOR TO STARTING WORK IN ACCORDANCE WITH RMC CHAPTER 9.16.046, SECTION J.
- 5. ALL DISTURBED AREAS SHALL BE HYDRO-SEEDED AT THE COMPLETION OF THE PROJECT.
- . THE CONTRACTOR SHALL TAKE CARE TO PREVENT CONSTRUCTION SITE RUNOFF FROM ENTERING INTO THE CITY'S STORMWATER SYSTEM. IN ACCORDANCE WITH RMC CHAPTER 16.05. CONSTRUCTION MATERIALS THAT MAY INTRODUCE SEDIMENT INTO THE STORMWATER SYSTEM MAY NOT BE STOCKPILED IN THE STREET. SUCH MATERIALS MAY INCLUDE BUT NOT BE LIMITED TO: CONSTRUCTION MATERIALS, SOIL, SAND, GRAVELS, ETC.

SANITARY SEWER / STORM DRAIN:

- ALL PUBLIC STORM DRAINAGE SYSTEMS SHALL BE DESIGNED FOLLOWING THE CORE ELEMENTS DEFINED IN THE LATEST EDITION OF THE STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON. THE HYDROLOGIC ANALYSIS AND DESIGN SHALL BE COMPLETED BASED ON THE FOLLOWING CRITERIA: WASHINGTON, REGION 2, BENTON COUNTY, SCS TYPE 1A 24 HOUR STORM FOR STORM VOLUME WITH A 25-YEAR RETURN PERIOD.
- SANITARY SEWER MAINS TO HAVE A MINIMUM OF 48" COVER
- INSTALL SEWER SERVICE SADDLE CONNECTION TO NEW MAIN PER COR STD DWG S2.
- INSTALL STANDARD SANITARY SEWER MANHOLE (PRECAST BASE) PER COR STD DWG S4.
- INSTALL SHALLOW SANITARY SEWER MANHOLE (CAST IN PLACE BASE) PER COR STD DWG S5.
- INSTALL SANITARY SEWER OUTSIDE DROP CONNECTION IN NEW MANHOLES PER COR STD DWG S6A.
- INSTALL MANHOLE FRAMES AND COVERS LETTERED "SEWER", "STORM", OR "WATER" PER COR STD DWG S8.
- INSTALL 6" OR 8" CLEANOUT ASSEMBLY PER COR STD DWG S9
- . INSTALL SEWER MARKER POST PER COR STD DWG S10
- . INSTALL TYPE 1 STORM DRAIN CATCH BASIN PER COR STD DWG S11
- . INSTALL STORM DRAIN CATCH BASIN FRAMES AND COVERS PER COR STD DWG S12.
- INSTALL STORM DRAIN CATCH BASIN MANHOLE PER COR STD DWG S13.
- INSTALL SHALLOW STORM DRAIN CATCH BASIN MANHOLE PER COR STD DWG S14.
- INSTALL EROSION CONTROL PLAN CONSTRUCTION BMP'S PER COR STD DWG S16, SHEETS 1-3.
- 16. INSTALL SPILL CONTROL SEPARATOR PER COR STD DWG S17.
- INSTALL CURB OPENING INLET PER COR STD DWG S19.

WATER: 1. PIPE MATERIAL

- THE WATERIAL.

 DICTLE IRON CL-50

 4"-8" DI, CL-50

 LARGER HAW'S" DUCTILE IRON, CL-50

 2" PE SERVICE LINES (ASTM D3035, DR11, 200PSI, NSF61)
- WATER MAINS TO HAVE A MINIMUM 48" COVER.
- COORDINATE CONNECTION TO EXISTING WATER MAIN WITH COR CREWS.
- INSTALL 1" STREET SERVICE PER COR STD DWG W1.
- INSTALL WATER VALVE BOX PER COR STD DWG W9
- INSTALL TAP ON EXISTING WATER LINE PER COR STD DWG W11.
- INSTALL TRACER WIRE ON NON-METALLIC WATER MAIN PER COR STD DWG W12.

- INSTALL FIRE HYDRANT PER COR STD DWG W14
- INSTALL THRUST BLOCKING PER COR STD DWG W16.
- INSTALL WATER SERVICE CONNECTION FOR NEW RESIDENTIAL LOT PER COR
- INSTALL REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) DEVICES 2" AND SMALLER PER COR STD DWG W19.

 A REGISTERED PROFESSIONAL ENGINEER OR A CONTRACTOR HOLDING A WASHINGTON STATE LEVEL III CERTIFICATE OF COMPETENCY SHALL DESIGN UNDERGROUND FIRE LINES.

MISC UTILITIES:

- ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY FINAL LOCATIONS AND SIZES WITH UTILITY COMPANIES PRIOR TO TRENCHING.
- SEE UTILITY PLAN TYPICAL SECTION PER COR STD DWG U1
- INSTALL MAIN LINES USING TRENCH DETAILS PER COR STD DWG U2.
- . SEE UTILITY ADJUSTMENTS PER COR STD DWG U4.

STREET, SIDEWALK, CURB/GUTTER, AND PARKING LOT: 1. HMA SHALL BE CLASS A PG 64-28, TOP COURSE SHALL BE 1/4" MINUS CRUSHED SURFACING (CSTC), AND BASE COURSE SHALL BE 1/4" MINUS CRUSHED SURFACING (CSBC), IN ACCORDANCE WITH SWSS DIVISION 4 AND SWSS DIVISION 9-03.9(3).

- STREET STRUCTURAL FILL: COMPACT FILL MATERIAL TO 95% MAXIMUM DENSITY, BASED ON A STANDARD PROCTOR, ASTM D698, IN LIFTS NOT TO EXCED 6°.
- APPLY SOIL RESIDUAL HERBICIDE WITHIN 24-HOURS PRIOR TO INSTALLING PAVING AND SIDEWALK MATERIAL PER WSDOT 5-04.3(5)D.
- ASPHALT FOR TACK COAT SHALL BE REQUIRED AS SPECIFIED IN WSDOT 5-04-3(5)A AND SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT REPAIR AREAS.
- INSTALL CURB, GUTTER AND SIDEWALK PER COR STD DWG ST1 AND ST7
- INSTALL STANDARD DRIVEWAY PER COR STD DWG ST2
- INSTALL TEMPORARY TURN AROUND PER COR STD DWG ST19.
- INSTALL SURVEY MONUMENT PER COR STD DWG ST20
- 10. INSTALL DETECTABLE WARNING SURFACE PER COR STD DWG ST21.

POWER (RICHLAND ENERGY SERVICES): 1. ALL UTILITY WORK TO BE DONE IN ACCORDANCE WITH CURRENT RICHLAND ENERGY SERVICES (RES) STANDARDS AND SPECIFICATIONS.

- THE CONTRACTOR WILL COMPACT ALL UTILITY TRENCHING OUTSIDE OF THE STREET R/W TO 85% OF THE MAXIMUM DENSITY.
- THE CONTRACTOR WILL PROVIDE ALL TRENCH AND BACKFILL NECESSARY FOR INSTALLATION OF RICHLAND ENERGY SERVICES (RES) FACILITIES. THE CONTRACTOR WILL COMPILY WITH RES STANDARDS AND SPECIFICATIONS. TYPICAL TRENCH WILL BE 16° MIN. WIDTH AND 42° MIN. COVER (NOT TO EXCEED 48° DEPTH WITHOUT CONTACTING RES TO ASSURE COMPLIANCE WITH WAC 296-156-657). THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO RES FACILITIES (NICLUIES PHYSICAL DAMAGE, GRADE CHANGES, CLEARANCE REDUCTIONS AND FILL SETTLING) ON THIS SITE.
- THE CONTRACTOR WILL PROVIDE ALL GRADES, PROPERTY CORNER LOCATIONS OR OTHER REFERENCE POINTS NECESSARY TO DETERMINE LOCATION AND DEPTH OF RES FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL PERMITS NECESSARY AS SET FORTH UNDER WAC 332-120. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE IN COMPULANCE WITH WAC 296-155-428, GENERAL REQUIREMENTS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ADHERE TO ALL OF THE REQUIREMENTS OF THIS
- IT IS THE DEVELOPER'S RESPONSIBILITY TO BE IN COMPLIANCE WITH WAC 296-486-450, AS OUTLINED UNDER PARAGRAPH HEADING, EQUIPMENT FOR GENERAL USE TRANSFORMERS & TRANSFORMER VAULTS.
- CONTACT RICHLAND ENERGY SERVICES FOR COORDINATION OF CONSTRUCTION AT (509) 942-7423 AND FOR WIRING DIAGRAMS, FINAL POWER CONDUIT AND STRUCTURE LOCATIONS.

- CABLE, GAS, PHONE:
 1. CONTACT FRANCHISE UTILITIES (CHARTER COMMUNICATIONS, CASCADE NATURAL, GAS, AND FRONTIER COMMUNICATIONS) TO COORDINATE INSTALLATION IN JOINT TRENCH WITH POWER.
- CONTRACTOR TO PROVIDE AND INSTALL 2" PVC CONDUITS FOR ALL PHONE CROSSINGS (MAIN LINE AND SERVICES).

LANDSCAPING:
1. LANDSCAPING AND IRRIGATION SPRINKLER DESIGN BY OTHERS

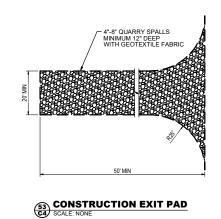
CDS UNIT STRUCTURE ID CDS2015-4-C WATER QUALITY FLOW RATE (CFS 0.308 PEAK 100 YR FLOW RATE (CFS) 1.353 RETURN PERIOD OF PEAK FLOW RATES (YRS) PIPE INLET (SIZE / INVER PIPE OUTLET (SIZE / INVERT) 12" / 351.65

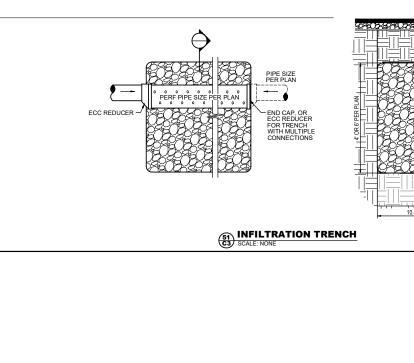












CITY ENGINEER APPROVAL

NOTE: ALL UTILITY LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH UTILITY COMPANIES PRIOR TO TRENCHING.

SIGNATURE

18-050.2

CALL 2 BUSINESS DAYS BEFORE YOU DIG: 811

DATE

∐BACK FILL 1' MIN OVERLAP

- GEOTEXTILE FABRIC

PERFORATED PIPE
PER PLAN

2

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03-11-2020

ERTISEE APARTMENTS NOTES AND DETAILS 1-000 AND 1-3099-200-0010-000, COLUMBIA PARK

MORLD BUILDER, LLC LIONEL SINGLETON