

STAFF REPORT

PLANNING DIRECTOR DECISION

DATE:	May 16, 2012	
FILE NO.:	DR-12-10/WAP-12-02	
REQUEST:	Class I Design Review and Water Resources Area permit for a proposed stormwater detention facility at Cedaroak Primary School at 4515 Cedaroak Drive	
PLANNER:	Tom Soppe, Associate Planner	
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EXHIBITS

SPECIFIC DATA

APPLICANT/

OWNER: West Linn-Wilsonville School District, 22210 SW Stafford Rd.,

Tualatin, OR 97062

CONSULTANTS: Keith Liden, Parsons Brinckerhoff, 400 SW 6th Ave., Ste. 802,

Portland, OR 97204

Nancy Hubbard, Hubbard & Associates, P.O. Box 702, Tualatin, OR

97062

SITE LOCATION: 4515 Cedaroak Drive

SITE SIZE: 11.2 acres

LEGAL

DESCRIPTION: Assessor's Map 2S-1E-24BA Tax Lot 1800

ZONING: R-10

COMP PLAN

DESIGNATION: Low Density Residential

APPROVAL

CRITERIA: CDC Chapter 32 Water Resource Area Protection; Chapter 55 Design

Review; Chapter 11, Single-Family Residential Detached, R-10

120-DAY RULE: The application became complete on April 18, 2012. The 120-day

period therefore ends on August 16, 2012.

PUBLIC NOTICE: Notice was mailed to property owners within 500 feet of the subject

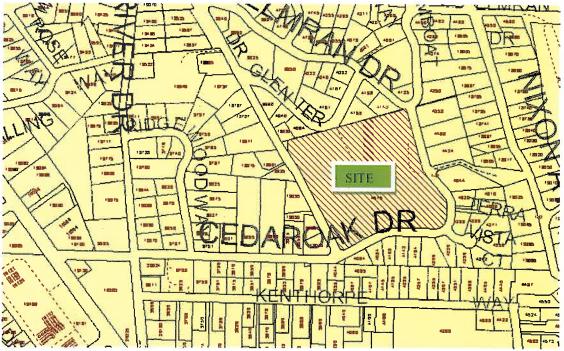
property and the Robinwood Neighborhood Association on April 25, 2012. A sign was posted on the property on April 26, 2012. The notice was printed in the West Linn Tidings on May 3, 2012. The notice was also posted on the City's website. Therefore, public notice requirements of Community Development Code Chapter 99

have been met.

BACKGROUND

The subject property is shown with red hatch lines on the following map. It is an R-10 zoned parcel located in the Robinwood neighborhood. It is located on a curved section of Cedaroak Drive, so this street borders the site to both the east and north. The front entrance to the school faces the east section of Cedaroak Drive, and the parking lot accesses this section of the street also. Therefore the front of the site is the east side.

Trillium Drive borders the rear or west side of the site. A curve of Glen Terrace tangentially borders part of the north side of the site as well. Cedaroak Primary School has been on this site since the 1950's. It has been expanded and modified with Conditional Use and Design Review permits through the years, the most recent for a trash compactor enclosure (file DR-11-04). As part of previous approvals, some of the impervious surface area runoff that previously drained to the drywell system on site was redirected to be treated and drained to the unnamed creek in the north central area of the site, west of the school building. The current proposal would further reconfigure and update the storm water system on site as a follow-up, and allow the drywell system to be decommissioned completely. See the Project Description section below.



Vicinity Map

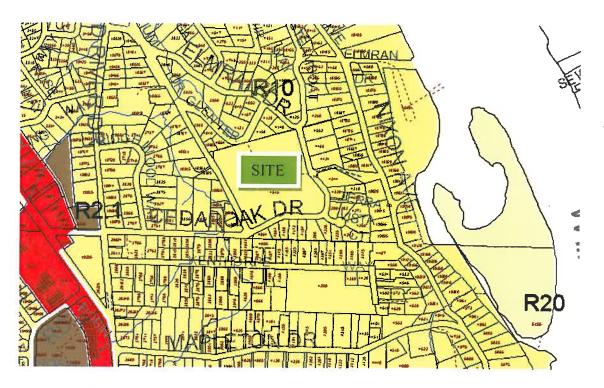
Site Conditions. The 1-story school building takes up much of the central, east-central, and northeastern parts of the site. The parking lot is along the north and east edges of the building, between the building and the boundaries of the site. The south sections of the site consist of playing fields. The playground area is west of the building and north of the playing fields, in the central area of the site. Northwest of this in the north-central area of the site is a drainageway corridor (the unnamed creek mentioned above) lined with trees on both sides. The drainageway begins on this portion of the site and drains out of the site to the north. Another relatively natural area of the site with a mixture of trees and grass is located west of this, in the northwest corner of the site. South of this area and north of the playing fields are a set of tennis courts. See also the Existing Conditions map, Sheet C1.2, on Page 41 of Exhibit PD-4.

<u>Project Description.</u> The proposal calls for installation of a new storm drainage pond southwest of the headwaters of the creek, west of the north end of the playground and

east of the tennis courts (see sheet C1.3 on page 42 of Exhibit PD-4). The applicant proposes to connect the proposed pond to the headwaters of the creek via a pipe and riprap. Under the proposal, the remainder of building runoff not currently collected by the previously installed system would be piped to this pond. The piping directing water from the building to the pond is not within the creek transition area. Therefore, unlike part of the pond and all of the pipe to the creek, the piping to the pond is not covered under the provisions of Chapter 32. Fencing is also proposed around the proposed pond.



Looking from the northeast, the creek headwaters are in the foreground. The proposed pond would take up much of the grassy area behind the trees and in front of the baseball field fence in the background.



Vicinity/Zoning Map (Light Yellow is R-10 District; Red is General Commercial)

<u>Surrounding Land Use</u>. The site is both in and surrounded by the R-10 zone, with single-family residential uses throughout the surrounding area. As can be seen on the Vicinity/Zoning Map above, there are other uses and zones several blocks away.

Table 1 Surrounding Land Use and Zoning

DIRECTION FROM SITE	LAND USE	ZONING
North	Single-family residential	R-10
East	Single-family residential, parkland along Willamette River	R-10, R-20
South	Single-family residential, Lake Oswego Water Treatment Plan.	R-10
West	Single-family residential	R-10

Source: West Linn GIS, 2012

Approval Criteria. As a site feature including new fences and a new storm water pond, this proposal requires Class I Design Review approval per CDC sections 55.020(C) and (M) respectively, requiring compliance with the criteria of Section 55.090. As part of the proposed pond is within the water resource transition area, and as facilities to drain the pond connect it to the on-site creek, a Water Resource Area permit is required per Section 32.020(B). The site is in the R-10 zone, so Chapter 11 criteria also apply.

Staff finds that the application meets the criteria of chapters 11, 55, and 32, as long as a conservation easement is recorded to protect the areas of the transition area to remain undeveloped (required by Section 32.050[D]) and the fee-in-lieu proposed for mitigation is paid to the Parks Department. Proposed Conditions of Approval 2 and 3 address these issues, respectively.

PUBLIC COMMENTS

No public comments have been received as of the publishing of this staff report.

RECOMMENDATION

Based on findings contained in the applicant's submittal in the City record and the staff findings, there are sufficient grounds to **approve** this application (DR-12-10/WAP-12-02) subject to the following conditions of approval:

- 1. <u>Tentative Plan</u>. The improvements shall conform to the Overall Site Plan, Sheet C1.3, on Page 42 of Exhibit PD-4, the Detention Pond Plan, Sheet C3.1 dated April 13, 2012, on page 45 Exhibit PD-4, and Detention Pond Planting Plan, Sheet L1.1, on Page 47 of Exhibit PD-4, dated March 2, 2012, except as modified by these conditions of approval.
- 2. <u>Conservation Easement.</u> A conservation easement shall be placed over the creek and the areas of the 50-foot transition zone that will remain undeveloped (outside the proposed pond, and the tennis courts). The easement document shall include the City's standard water resource conservation easement language, available from the Planning Department. The applicant shall record the easement with Clackamas County. The edge of the conservation easement, on all sides, shall be identified with City-approved permanent markers at 30- to 50-foot intervals. A City-approved permanent marker shall be placed at each boundary direction change.
- 3. <u>Mitigation Fee-in-Lieu</u>. The applicant shall pay a fee-in-lieu to the Parks and Recreation Department to fulfill the mitigation requirements of Section 32.070. The fee shall be \$1.00 for every square foot of transition area to be developed with the pond, fencing, and the underground pipe between the pond and the creek. The fee shall be paid before the project's final inspection is approved.

I declare to have no interest in the outcome of this decision due to some past or present involvement with the applicant, the subject property, or surrounding properties, and therefore, can render an impartial decision. The provisions of the Community Development Code Chapter 99 have been met.

Jan Sonner	
JOHN SONNEN, Planning Director	

May 16, 2012 DATE

Appeals to this decision must be filed with the West Linn Planning Department within 14 days of mailing date. Cost is \$400. The appeal must be filed by an individual who has established standing by submitting comments prior to or on May 16, 2012.

Mailed this $\frac{12^{-40}}{12}$ day of $\frac{900}{12}$, 2012.

Therefore, the 14-day appeal period ends at 5 p.m., on

May 31, 2012

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ADDENDUM

APPROVAL CRITERIA AND FINDINGS

DR-12-10/WAP-12-01

Staff recommends adoption of the findings for approval contained within the applicant's submittal, with the following exceptions and additions:

Chapter 11 SINGLE-FAMILY RESIDENTIAL DETACHED, R-10

11.060 CONDITIONAL USES

The following are conditional uses which may be allowed in this zoning district subject to the provisions of Chapter <u>60</u> CDC, Conditional Uses.

7. Schools.

FINDING NO. 1:

The site has accommodated a school since the 1950's, before the current Community Development Code existed. It has been modified via Conditional Use and Design Review permits in the more recent past, the most recent ones being for the library expansion (file CUP-10-01/DR-10-02/VAR-10-03/MISC-10-05) and the trash compactor enclosure (file DR-11-04). The proposal would not enlarge, alter, or intensify the conditional use itself but rather adds facilities that require design review for aesthetic reasons, require a Water Resource Area permit for environmental reasons, and help reconfigure the existing storm water collection system. Therefore only Design Review and the Water Resource Area approvals are required, not a Conditional Use approval. The conditional use is legally established already. The criterion is met.

11.070 DIMENSIONAL REQUIREMENTS, USES PERMITTED OUTRIGHT AND USES PERMITTED UNDER PRESCRIBED CONDITIONS

11.080 DIMENSIONAL REQUIREMENTS, CONDITIONAL USES

Except as may otherwise be established by this code, the appropriate lot size for a conditional use shall be determined by the approval authority at the time of consideration of the application based upon the criteria set forth in CDC 60.070(A) and (B).

FINDING NO. 2:

The large site continues to be appropriate for a school of this size, including upon the addition of a new storm water pond. The criterion is met.

CHAPTER 55 DESIGN REVIEW

55.090 APPROVAL STANDARDS - CLASS I DESIGN REVIEW

The Planning Director shall make a finding with respect to the following criteria when approving, approving with conditions, or denying a Class I design review application:

- A. The provisions of the following sections shall be met:
 - 1. $CDC \, \underline{55.100}(B)(1)$ through (4), Relationship to the natural and physical environment, shall apply except in those cases where the proposed development site is substantially developed and built out with no remaining natural physical features that would be impacted.
 - 2. $CDC \, \underline{55.100}(B)(5)$ and (6), architecture, et al., shall only apply in those cases that involve exterior architectural construction, remodeling, or changes.
 - 3. Pursuant to CDC $\underline{55.085}$, the Director may require additional information and responses to additional sections of the approval criteria of this section depending upon the type of application.

FINDING NO. 3:

Subsections 55.100(B)(5) and (6) do not apply as architectural work is not proposed. Applicant findings to subsections 55.100(B)(1) through (4) can be found on page 35 of Exhibit PD-4, and staff findings to the appropriate subsections constitute findings 9-10 below. Per Subsection (3) above, the applicant has responded to additional approval criteria sections from 55.100 as requested by staff. These are addressed on pages 35-36 of Exhibit PD-4 in the applicant's findings and below in staff findings 6-8 and 11-13.

B. An application may be approved only if adequate public facilities will be available to provide service to the property at the time of occupancy.

FINDING NO. 4:

Public facilities will be adequate to serve the project.

C. The Planning Director shall determine the applicability of the approval criteria in subsection A of this section.

FINDING NO. 5:

Subsections 55.100(B)(2-4) are applicable as development is proposed on a small area of land where there is none now. Subsection 55.100(B)(1) is not applicable as there are no heritage trees, and Subsections 55.100(B)(5-6) are not applicable as no architectural work is proposed. Applicant findings to subsections 55.100(B)(1) through (4) can be

found on Page 36 of Exhibit PD-4, and staff findings to the appropriate subsections constitute findings 9-10 below.

55.100 APPROVAL STANDARDS – CLASS II DESIGN REVIEW

The approval authority shall make findings with respect to the following criteria when approving, approving with conditions, or denying a Class II design review application.

- A. The provisions of the following chapters shall be met:
 - 1. Chapter <u>33</u> CDC, Stormwater Quality and Detention.

FINDING NO. 6:

Staff accepts the applicant's finding on Page 35 of Exhibit PD-4 that the proposed system will be installed and maintained in a matter compatible with Chapter 33.

6. Chapter 44 CDC, Fences.

FINDING NO. 7:

The City generally prefers ponds to not have fences, for aesthetic reasons. However this pond is deep within a large school site, and a fence around the 6-foot-deep pond would make children more safe. The fence proposed is 4 feet tall and is not within a front setback, so it meets the criteria of Chapter 44.

10. Chapter <u>54</u> CDC, Landscaping.

54.020(E)(2). <u>Non-residential uses</u>. A minimum of 20 percent of the gross site area shall be landscaped. Parking lot landscaping may be counted in the percentage.

FINDING NO. 8:

Well over 20% of the site will still be landscaped after installation of the pond. This and other provisions of Chapter 54 are met.

- B. Relationship to the natural and physical environment.
 - 2. All heritage trees, as defined in the municipal code, all trees and clusters of trees ("cluster" is defined as three or more trees with overlapping driplines; however, native oaks need not have an overlapping dripline) that are considered significant by the City Arborist, either individually or in consultation with certified arborists or similarly qualified professionals, based on accepted arboricultural standards including consideration of their size, type, location, health, long term survivability, and/or numbers, shall be protected pursuant to the criteria of subsections (B)(2)(a) through (f) of this section. In cases where there is a difference of opinion on the significance of a tree or tree cluster, the City Arborist's findings shall prevail. It is important to acknowledge that all trees are not significant and, further, that this code section will not necessarily protect all trees deemed significant.

- a. Non-residential and residential projects on Type I and II lands shall protect all heritage trees and all significant trees and tree clusters by either the dedication of these areas or establishing tree conservation easements. Development of Type I and II lands shall require the careful layout of streets, driveways, building pads, lots, and utilities to avoid heritage trees and significant trees and tree clusters, and other natural resources pursuant to this code. The method for delineating the protected trees or tree clusters ("dripline + 10 feet") is explained in subsection (B)(2)(b) of this section. Exemptions of subsections (B)(2)(c), (e), and (f) of this section shall apply.
- b. Non-residential and residential projects on non-Type I and II lands shall set aside up to 20 percent of the area to protect trees and tree clusters that are determined to be significant, plus any heritage trees. Therefore, in the event that the City Arborist determines that a significant tree cluster exists at a development site, then up to 20 percent of the non-Type I and II lands shall be devoted to the protection of those trees, either by dedication or easement. The exact percentage is determined by establishing the driplines of the trees or tree clusters that are to be protected. In order to protect the roots which typically extend further, an additional 10-foot measurement beyond the dripline shall be added. The square footage of the area inside this "dripline plus 10 feet" measurement shall be the basis for calculating the percentage (see figure below). The City Arborist will identify which tree(s) are to be protected. Development of non-Type I and II lands shall also require the careful layout of streets, driveways, building pads, lots, and utilities to avoid significant trees, tree clusters, heritage trees, and other natural resources pursuant to this code. Exemptions of subsections (B)(2)(c), (e), and (f) of this section shall apply. Please note that in the event that more than 20 percent of the non-Type I and II lands comprise significant trees or tree clusters, the developer shall not be required to save the excess trees, but is encouraged to do so.

FINDING NO. 9:

No trees will be removed. The criteria are met.

- 3. The topography and natural drainage shall be preserved to the greatest degree possible.
- 4. The structures shall not be located in areas subject to slumping and sliding. The Comprehensive Plan Background Report's Hazard Map, or updated material as available and as deemed acceptable by the Planning Director, shall be the basis for preliminary determination.

FINDING NO. 10:

The topography is relatively level, but there is a general basin effect towards the stream. By collecting the storm water from the buildings on site and draining it into the stream, the proposed pond would respect the topography and natural drainage. The only

structure proposed is the fencing. The site is not in a landslide hazard area or landslide vulnerability area according to the City's Natural Hazards Mitigation Plan.

- C. Compatibility between adjoining uses, buffering, and screening.
 - 1. In addition to the compatibility requirements contained in Chapter <u>24</u> CDC, buffering shall be provided between different types of land uses; for example, buffering between single-family homes and apartment blocks. However, no buffering is required between single-family homes and duplexes or single-family attached units. The following factors shall be considered in determining the adequacy of the type and extent of the buffer:
 - a. The purpose of the buffer, for example to decrease noise levels, absorb air pollution, filter dust, or to provide a visual barrier.
 - b. The size of the buffer required to achieve the purpose in terms of width and height.
 - c. The direction(s) from which buffering is needed.
 - d. The required density of the buffering.
 - e. Whether the viewer is stationary or mobile.

FINDING NO. 11:

The proposed storm pond and fencing are deep within the site, and buffered from the west by tennis courts, from the south by the play areas, from the east by the buildings, and from the north by the wooded creek corridor. Further buffering and screening are not needed.

- I. <u>Public facilities</u>. An application may only be approved if adequate public facilities will be available to provide service to the property prior to occupancy.
 - 2. <u>Drainage</u>. A registered civil engineer shall prepare a plan and statement which shall be supported by factual data that clearly shows that there will be no adverse impacts from increased intensity of runoff off site or the plan and statement shall identify all off-site impacts and measures to mitigate those impacts. The plan and statement shall, at a minimum, determine off-site impacts from a 25-year storm. The City Engineer shall adjust storm drainage facilities for applications which contain permeable parking surfaces based upon a quantitative analysis of the increased water retention and water quality characteristics of the permeable parking surface.

Catch basins shall be installed and connected to pipelines leading to storm sewers or drainageways.

All plans will then be reviewed by the City Engineer.

FINDING NO. 12:

The plans have been prepared by a registered civil engineer. City Engineering will review the plans as part of the building permit process. The proposed system handles only existing impervious surfaces, as none more are proposed. It represents an improvement in storm water treatment and detention over the previous system. Pipelines connect runoff to the pond, which drains to the creek through another pipe. The criterion is met.

- J. Crime prevention and safety/defensible space.
 - 8. Security fences for utilities (e.g., power transformers, pump stations, pipeline control equipment, etc.) or wireless communication facilities may be up to eight feet tall in order to protect public safety. No variances are required regardless of location.

FINDING NO. 13:

The fence will be 4 feet tall, meeting this criterion.

32.050 APPROVAL CRITERIA

No application for development on property containing a water resource area shall be approved unless the decision-making authority finds that the following standards have been satisfied, or can be satisfied by conditions of approval.

A. Proposed development submittals shall identify all water resource areas on the project site. The most currently adopted Surface Water Management Plan shall be used as the basis for determining existence of drainageways. The exact location of drainageways identified in the Surface Water Management Plan, and drainageway classification (e.g., open channel vs. enclosed storm drains), may have to be verified in the field by the City Engineer. The Local Wetlands Inventory shall be used as the basis for determining existence of wetlands. The exact location of wetlands identified in the Local Wetlands Inventory on the subject property shall be verified in a wetlands delineation analysis prepared for the applicant by a certified wetlands specialist. The Riparian Corridor Inventory shall be used as the basis for determining existence of riparian corridors.

FINDING NO. 14:

The submittal identifies the unnamed stream on site, and the 50-foot transition area of the stream.

B. Proposed developments shall be so designed as to maintain the existing natural drainageways and utilize them as the primary method of stormwater conveyance through the project site unless the most recently adopted West Linn Surface Water Management Plan calls for alternate configurations (culverts, piping, etc.). Proposed development shall, particularly in the case of subdivisions, facilitate reasonable access to the drainageway for maintenance purposes.

FINDING NO. 15:

The project would redirect the school building runoff from the drywell system to the proposed pond, which would drain to the natural drainageway headwaters on site. The criterion is met.

C. Development shall be conducted in a manner that will minimize adverse impact on water resource areas. Alternatives which avoid all adverse environmental impacts associated with the proposed action shall be considered first. For unavoidable adverse environmental impacts, alternatives that reduce or minimize these impacts shall be selected. If any portion of the water quality resource area is proposed to be permanently disturbed, the applicant shall prepare a mitigation plan as specified in CDC 32.070 designed to restore disturbed areas, either existing prior to development or disturbed as a result of the development project, to a healthy natural state.

FINDING NO. 16:

The pond is proposed partially in the transition area, but treatment facilities are allowed to encroach 25 feet into the transition area, per (M) below. See Finding 23 below. The facility will not encroach more than 25 feet into the 50-foot-wide transition area. It is proposed in a part of the transition area that consists of grass rather than trees, wetlands, or riparian vegetation. Mitigation is proposed for this area, and for the area affected by the pipe proposed to drain pond water to the creek. The criterion is met.

D. Water resource areas shall be protected from development or encroachment by dedicating the land title deed to the City for public open space purposes if either: (1) a finding can be made that the dedication is roughly proportional to the impact of the development; or (2) the applicant chooses to dedicate these areas. Otherwise, these areas shall be preserved through a protective easement. Protective or conservation easements are not preferred because water resource areas protected by easements have been shown to be harder to manage and, thus, more susceptible to disturbance and damage. Required 15-foot-wide structural setback areas do not require preservation by easement or dedication.

FINDING NO. 17:

The only development proposed is the pond and associated piping and fencing, so the finding cannot be made that land should be dedicated fee simple to the City in rough proportionality to the proposed development. Therefore a conservation easement is appropriate for all areas of the 50-foot setback that would remain undeveloped. Proposed Condition of Approval 2 requires this.

E. The protected water resource area shall include the drainage channel, creek, wetlands, and the required setback and transition area. The setback and transition area shall be determined using the following table:

FINDING NO. 18:

The stormwater treatment and detention facility would encroach just under 25 feet into the transition area, as allowed by Section (M) below. A narrow underground pipe is

proposed to connect this to the creek. Otherwise, the required 50-foot transition area and the creek will not be modified.

- F. Roads, driveways, utilities, or passive use recreation facilities may be built in and across water resource areas when no other practical alternative exists. Construction shall minimize impacts. Construction to the minimum dimensional standards for roads is required. Full mitigation and revegetation is required, with the applicant to submit a mitigation plan pursuant to CDC 32.070 and a revegetation plan pursuant to CDC 32.080. The maximum disturbance width for utility corridors is as follows:
 - 1. For utility facility connections to utility facilities, no greater than 10 feet wide.
 - 2. For upgrade of existing utility facilities, no greater than 15 feet wide.
 - 3. For new underground utility facilities, no greater than 25 feet wide, and disturbance of no more than 200 linear feet of water quality resource area, or 20 percent of the total linear feet of water quality resource area, whichever is greater.

FINDING NO. 19:

The stormwater treatment and detention facility encroaches just under 25 feet into the transition area, as allowed by Section (M) below. See Finding 23. A narrow pipe, compliant with the above dimensional criteria, connects the facility to the creek. The criteria are met.

G. Prior to construction, the water resource area shall be protected with an anchored chain link fence (or approved equivalent) at its perimeter and shall remain undisturbed except as specifically allowed by an approved water resource area permit. Such fencing shall be maintained until construction is complete. The water resource area shall be identified with City-approved permanent markers at all boundary direction changes and at 30- to 50-foot intervals that clearly delineate the extent of the protected area.

FINDING NO. 20:

The applicant will install fencing during the construction phase. Condition of Approval 2 ensures that the required conservation easement (which is to be placed over the undeveloped areas of the 50-foot creek setback) will have its boundary marked at 30- to 50-foot intervals, and will have its boundary direction changes marked with Cityapproved signage.

- I. Sound engineering principles regarding downstream impacts, soil stabilization, erosion control, and adequacy of improvements to accommodate the intended drainage through the drainage basin shall be used. Storm drainage shall not be diverted from its natural watercourse. Inter-basin transfers of storm drainage shall not be permitted.
- J. Appropriate erosion control measures based on Chapter $\underline{31}$ CDC requirements shall be established throughout all phases of construction.

FINDING NO. 21:

Appropriate erosion control measures will be established and sound engineering principles used. There will be no inter-basin transfers. The storm water from the building will be directed to this basin's natural drainageway instead of the drywells.

K. Vegetative improvements to areas within the water resource area may be required if the site is found to be in an unhealthy or disturbed state, or if portions of the site within the water resource area are disturbed during the development process. "Unhealthy or disturbed" includes those sites that have a combination of native trees, shrubs, and groundcover on less than 80 percent of the water resource area and less than 50 percent tree canopy coverage in the water resource area. Vegetative improvements will be documented by submitting a revegetation plan meeting CDC 32.080 criteria that will result in the water resource area having a combination of native trees, shrubs, and groundcover on more than 80 percent of its area, and more than 50 percent tree canopy coverage in its area. Where any existing vegetation is proposed to be permanently removed, or the original land contours disturbed, a mitigation plan meeting CDC 32.070 criteria shall also be submitted. Interim erosion control measures such as mulching shall be used to avoid erosion on bare areas. Upon approval of the mitigation plan, the applicant is responsible for implementing the plan during the next available planting season.

FINDING NO. 22:

Tree canopy coverage exceeds 50% in the water resource area on site, so vegetative improvements, besides the revegetation plan for temporarily disturbed areas (see Finding 28 below), are not required.

M. Stormwater treatment facilities may only encroach a maximum of 25 feet into the outside boundary of the water resource area; and the area of encroachment must be replaced by adding an equal area to the water quality resource area on the subject property. Facilities that infiltrate stormwater on site, including the associated piping, may be placed at any point within the water resource area outside of the actual drainage course so long as the forest canopy and the areas within 10 feet of the driplines of significant trees are not disturbed. Only native vegetation may be planted in these facilities.

FINDING NO. 23:

As stated by the applicant on in their finding related to Chapter 33, "some level of storm water treatment will be provided by the storm water pond." Therefore the pond is a stormwater treatment facility and is allowed to encroach a maximum of 25 feet into the water resource area. It falls just short of encroaching 25 feet into the transition area. The criterion is met.

32.070 MITIGATION PLAN

A mitigation plan shall be required if any portion of the water resource area is proposed to be permanently disturbed by development.

A. All mitigation plans must contain an alternatives analysis demonstrating that:

- 1. No practicable alternatives to the requested development exist that will not disturb the water resource area; and
- 2. Development in the water resource area has been limited to the area necessary to allow for the proposed use; and
- 3. An explanation of the rationale behind choosing the alternative selected, including how adverse impacts to the water resource area will be avoided and/or minimized.

FINDING NO. 24:

32.050(M) allows stormwater treatment facilities to encroach 25 feet into the transition area, with proper mitigation per 32.070's provisions. The location of the proposed facility encroaches less than 25 feet into the 50-foot transition area. A large majority of the facility is outside the transition area. Due to the location of existing play areas, tennis courts, and baseball fields, the area selected for the pond is the only area available on site that works with the natural drainage of the site to properly transmit building runoff to the creek. The criteria are met.

- B. A mitigation plan shall contain the following information:
 - 1. A description of adverse impacts that will be caused as a result of development.
 - 2. An explanation of how adverse impacts to resource areas will be avoided, minimized, and/or mitigated in accordance with, but not limited to, the revegetation provisions of CDC 32.050(K).
 - 3. A list of all responsible parties including, but not limited to, the owner, applicant, contractor, or other persons responsible for work on the development site.
 - 4. A map showing where the specific mitigation activities will occur.
 - 5. An implementation schedule, including timeline for construction, mitigation, mitigation maintenance, monitoring, reporting, and a contingency plan. All instream work in fish-bearing streams shall be done in accordance with the Oregon Department of Fish and Wildlife water work periods.
 - 6. Assurances shall be established to rectify any mitigation actions that are not successful. This may include bonding or other surety.

FINDING NO. 25:

The applicant's finding on Page 38 of Exhibit PD-4 seems to be referring accidentally to the other proposed school district, DR-12-09/WAP-12-01 at Bolton School, as it refers to bank stabilization. However it correctly refers to the applicant's plans to work with the Parks Department to pursue a fee-in-lieu for off-site mitigation done by Parks. The adverse impacts are the placement of part of a storm pond and associated fencing in a

vegetated area of the 50-foot transition area. No trees will be removed. A revegetation plan is provided on Sheet L1.1 on Page 47 of Exhibit PD-4 for temporarily disturbed areas. Due to the fee-in-lieu proposal, the schedule and location of the mitigation are not known, but the Parks Department will add the fee to pooled funds to provide for appropriate mitigation, as part of larger-scale restoration projects. This is beneficial in that these larger restoration projects have the greatest possible lasting impact on the environment, compared to smaller individual projects that would otherwise be fulfilled through the process set forth by Section 32.070. Condition of Approval 3 requires the properly calculated fee-in-lieu be paid before the project's final inspection.

- C. Mitigation of any water resource areas that are not wetlands that are permanently disturbed shall be accomplished by creation of a mitigation area equal in size to the area being disturbed. Mitigation areas may be land that is either:
 - 1. On site, not within the water resource area, and is characterized by existing vegetation that does not meet the standard set forth in CDC 32.050(K); or
 - 2. Off site, and is characterized by existing vegetation that does not meet the standard set forth in CDC $\underline{32.050}(K)$.

The applicant shall prepare and implement a revegetation plan for the mitigation area pursuant to CDC <u>32.080</u>, and which shall result in the area meeting the standards set forth in CDC <u>32.050(K)</u>. Adequacy of off-site mitigation areas on City property must be consistent with and meet approval of the City Department of Parks and Recreation. Any off-site mitigation occurring on privately owned land shall be protected with a conservation easement.

FINDING NO. 26:

The applicant proposes off-site mitigation via a fee-in-lieu to the Parks Department to pool with other funds for larger restoration projects. Since the location of the mitigation is not known and will be done by the Park Department, it is not possible for the applicant to submit the revegetation plan for a mitigation area. The mitigation will be done on public land, so the conservation easement is not relevant.

E. To ensure that the mitigation area will be protected in perpetuity, proof that the area has been dedicated to the City or that a conservation easement has been placed on the property where the mitigation is to occur is required. (Ord. 1545, 2007)

FINDING NO. 27:

Mitigation will occur on City property as it is being fulfilled via a fee-in-lieu to the Parks Department.

32.080 REVEGETATION PLAN REQUIREMENTS

Metro's Native Plant List is incorporated by reference as a part of this chapter, and all plants used in revegetation plans shall be plants found on the Metro Native Plant List.

Performance standards for planting upland, riparian and wetland plants include the following:

- A. Native trees and shrubs will require temporary irrigation from June 15th to October 15th for the three years following planting.
- B. Invasive non-native or noxious vegetation shall be removed within the area to be revegetated prior to planting.
- C. Replacement trees must be at least one-half inch in caliper, measured at six inches above the ground level for field grown trees or above the soil line for container grown trees (the one-half inch minimum size may be an average caliper measure, recognizing that trees are not uniformly round) unless they are oak or madrone, which may be one-gallon size. Shrubs must be in at least a one-gallon container or the equivalent in ball and burlap and must be at least 12 inches in height.
- D. Trees shall be planted between eight and 12 feet on center and shrubs shall be planted between four and five feet on center, or clustered in single species groups of no more than four plants, with each cluster planted between eight and 10 feet on center. When planting near existing trees, the dripline of the existing tree shall be the starting point for plant spacing requirements.
- E. Shrubs must consist of at least two different species. If 10 trees or more are planted, then no more than 50 percent of the trees may be of the same species.
- F. The responsible party shall provide an appropriate level of assurance documenting that 80 percent survival of the plants has been achieved after three years, and shall provide annual reports to the Planning Director on the status of the revegetation plan during the three-year period.

FINDING NO. 28:

Temporary irrigation will be provided, and non-native plants in the affected area will be removed and replaced with natives. No trees will be removed. Proposed trees and plant species are compatible with the requirements of density and species variety in this criteria. This can be seen on Sheet L1.1, Page 47 of Exhibit PD-4. The district will maintain and report on the plants as required by (F). See also the applicant's findings on Page 39 of Exhibit PD-4.

EXHIBITS

PD-1	AFFADAVIT OF NOTICE	19
	NOTICE MAILING PACKET	
	COMPLETENESS LETTER	
	APPLICANT'S SUBMITTAL	

AFFIDAVIT OF NOTICE

We, the undersigned do hereby certify that, in the interest of the party (parties) initiating a proposed land use, the following took place on the dates indicated below:

GENE File No Develo Schedu	PMENT DECISION DATE HOUSE TO STAND WAR POR PORT OF THE PROPERTY OF THE PROPERT	school Dist/Tim Woodley mary School
NOTI 99.080	CE: Notices were sent at least 20 days prior to the scheof the Community Development Code. (check below)	duled hearing, meeting, or decision date per Section
TYPE.	A	,
A.	The applicant (date) 4-25-12	(signed) 5. Sheryer
B.	Affected property owners (date) 4-25-12	(signed) 5. Shryer (signed) 5. Shryer
C.	School District/Board (date)	(signed)
D.	Other affected gov't. agencies (date) 4-25-12	(signed) S. Skryer
E.	Affected neighborhood assns. (date) 4 - 25-12	(signed) 5. Shroyev
F.	All parties to an appeal or review (date)	(signed)
At least	10 days prior to the scheduled hearing or meeting, notice	was published/posted:
Tidings City's w	(published date) <u>5-3-/2</u> vebsite (posted date) <u>4-25-/2</u>	(signed) S. Surver (signed) S. Shurver
SIGN		J
At least	t 10 days prior to the scheduled hearing, meeting or de 99.080 of the Community Development Code.	cision date, a sign was posted on the property per
(date)	4-26-12 (signed)	, 1
(uate)_	(signed)	and the second second
NOTIO	CE: Notices were sent at least 14 days prior to the sched	lyled hearing, meeting, or decision date/per Section
99.080 o	of the Community Development Code. (check below)	, , , , , , , , , , , , , , , , , , ,
TYPE I	3	
A.	The applicant (date)	(signed)
В. /	Affected property owners (date)	(signed)
Ç!	School District/Board (date)	(signed)
D.	Other affected gov't. agencies (date)	(signed)
E.	Affected neighborhood assns. (date)	(signed)
Notice v Date:	was posted on the City's website at least 10 days prior to the	ne scheduled hearing or meeting. (signed)
STAFF prior to	REPORT mailed to applicant, City Council/Planning C the scheduled hearing.	ommission and any other applicable parties 10 days
(date) _	(signed)	
711WYYAYYA	DECISION notice mailed to applicant, all other particles of fice. $5-17-12$ (signed) $\leq SMye$	

CITY OF WEST LINN PLANNING DIRECTOR DECISION

FILE NO. DR-12-10/WAP-12-02

The West Linn Planning Director is considering a request for a Water Resources Area permit and Class I Design Review approval for a new stormwater pond and associated piping, located partially within the water resource area, at Cedaroak Primary School at 4515 Cedaroak Drive. Class I Design Review is necessary for upgrades to the stormwater detention system and for new fencing. The Water Resources Area permit is required for development within the 50-foot transition area of the stream on site. The decision will be based on the approval criteria in chapters 32 and 55 of the Community Development Code (CDC). The approval criteria from the CDC are available for review at City Hall, at the City Library, and at http://www.westlinnoregon.gov.cdc.

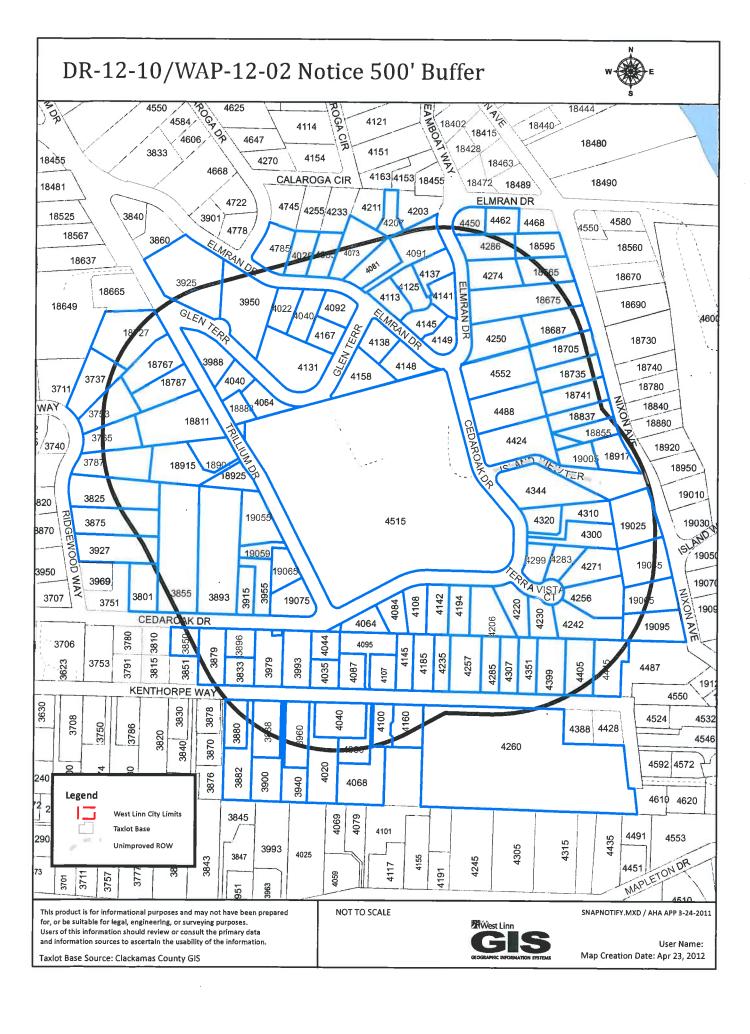
The property is located at Tax Lot 1800 of Clackamas County Assessor's Map 2-1E-24BA. You have received this notice because you own property within 500 feet of this property or as otherwise required by the CDC.

All relevant materials in the above noted file are available for inspection at no cost at City Hall, and on the city web site at http://westlinnoregon.gov/planning/4515-cedaroak-dr-class-1-design-review-water-resource-area-protection-storm-drain-improveme or copies may be obtained for a minimal charge per page. Although there is no public hearing, your comments and ideas are invited and can definitely influence the final decision of the Planning Director. Planning staff looks forward to discussing the application with you. The final decision is expected to be made on, and no earlier than, May 16, 2012, so please get in touch with us prior to this date. For further information, please contact Tom Soppe, Associate Planner, City Hall, 22500 Salamo Rd., West Linn, OR 97068, (503) 742-8660, tsoppe@westlinnoregon.gov

Any appeals to this decision must be filed within 14 days of the final decision date with the Planning Department. Failure to raise an issue in person or by letter, or failure to provide sufficient specificity to afford the decision-maker an opportunity to respond to the issue, precludes the raising of the issue at a subsequent time on appeal or before the Land Use Board of Appeals.

SHAUNA SHROYER
Planning Administrative Assistant

p:\devrvw\projects folder\projects 2012\DR-12-10 SEE WAP-12-02 Cedaroak School\notice-DR-12-10



BAKER THOMAS C PO BOX 157 EAGLE CREEK, OR 97022	✓ BALES SHIRLEY A TRUSTEE 18855 NIXON AVE WEST LINN, OR 97068	BALTAZAR ROBERT D & SHIRLEY L 4220 TERRA VISTA CT WEST LINN, OR 97068
/ BARTLEY PATRICIA F TRUSTEE 4310 CEDAROAK DR WEST LINN, OR 97068	BEECHLER GEORGE J & TAMERA L 7287 SW LINETTE WAY BEAVERTON, OR 97007	✓ BELL MARTY C TRUSTEE 4552 CEDAROAK DR WEST LINN, OR 97068
BERGER MICHAEL J & PEGGY E 4081 ELMRAN DR WEST LINN, OR 97068	BURNS DENNEL G 4351 KENTHORPE WAY WEST LINN, OR 97068	✓BYER JACKIE M 4283 TERRA VISTA CT WEST LINN, OR 97068
CANYON DEVELOPMENT LLC PO BOX 42310 PORTLAND, OR 97242	CARLSON ERIC R & MARYANNE 3875 RIDGEWOOD WAY WEST LINN, OR 97068	✓CITY OF LAKE OSWEGO PO BOX 369 LAKE OSWEGO, OR 97034
CLIFTON KENNETH E & LISA M 3765 RIDGEWOOD WAY WEST LINN, OR 97068	COKER RUSSELL ARTHUR & PEGGY M 3950 ELMRAN DR WEST LINN, OR 97068	CONKLE LEO E TRUSTEE 4307 KENTHORPE WAY WEST LINN, OR 97068
✓ CROY LOU ANN LIVING TRUST 4399 KENTHORPE WAY WEST LINN, OR 97068	✓ CURTISS ALAN C & JACQUELYN M 18812 UPPER MIDHILL DR WEST LINN, OR 97068	DASSO JAMES F TRUSTEE 3893 CEDAROAK DR WEST LINN, OR 97068
/DAVIDS DORIS J TRUSTEE 18767 TRILLIUM DR WEST LINN, OR 97068	DEAN DENNIS G & CHERYL V WIDEMAN 3988 GLEN TER WEST LINN, OR 97068	✓DELANO RAMONA CO-TRUSTEE 3737 RIDGEWOOD WAY WEST LINN, OR 97068
✓DELUCA RAYNOLD E JR & DEBRA A 4206 CEDAROAK DR WEST LINN, OR 97068	✓DENEKAS BRIAN D & NAOMI K 4131 GLEN TER WEST LINN, OR 97068	✓DONOVAN KEVIN & DIANA KENDALL 4250 ELMRAN DR WEST LINN, OR 97068
DULY DEBORAH M 18888 TRILLIUM DR WEST LINN, OR 97068	DURHAM KATHERINE A 3833 KENTHORPE WAY WEST LINN, OR 97068	FASTABEND RANDALL J & CORINN BROWN 18787 TRILLIUM DR WEST LINN, OR 97068
√FLETTER ALEXANDER H 18917 NIXON AVE WEST LINN, OR 97068	FOSBERG DAVID 4055 ELMRAN DR WEST LINN, OR 97068	FUNK DUANE H 4405 KENTHORPE WAY WEST LINN, OR 97068

GEORGE PETER W & DIANE M	√GERBER SCOTT	√GOLDSCHMIDT JOSHUA A
4445 KENTHORPE WAY	3940 KENTHORPE WAY	3960 KENTHORPE WAY
WEST LINN, OR 97068	WEŞT LINN, OR 97068	WEST LINN, OR 97068
GRANT JUDITH A 4158 GLEN TER WEST LINN, OR 97068	✓ GREILING RODNEY W & JEANETTE L 4040 ELMRAN DR WEST LINN, OR 97068	GRIFFITH THOMAS & LORIE 4068 KENTHORPE WAY WEST LINN, OR 97068
GUIMARY FLORENCE	GUNTER TODD J & WENDY G	✓GUNTHER STEPHAN W & DAWN G
4022 ELMRAN DR	4320 CEDAROAK DR	18665 NIXON AVE
WEST LINN, OR 97068	WEST LINN, OR 97068	WEST LINN, OR 97068
/ HAATIA LLOYD WARREN TRUSTEE 4271 TERRA VISTA CT WEST LINN, OR 97068	HACKETT JAMES E & KATHLEEN M KREUTZER PO BOX 193 LAKE OSWEGO, OR 97034	✓HAINS PROPERTIES LLC 11295 SE PINE CT PORTLAND, OR 97216
HARMON DAVID W & JUDITH N CITTERMAN 2351 EISENHOWER AVE 619 ALEXANDRIA, VA 22314	HARTFELL ADOLF & BARBARA 4230 TERRA VISTA CT WEST LINN, OR 97068	✓ HAYES ROBERT L TRUSTEE 4424 CEDAROAK DR WEST LINN, OR 97068
√HENDERSON ROBERT B 19095 NIXON AVE WEST LINN, OR 97068	HOLM DARIN R TRUSTEE 4785 CALAROGA DR WEST LINN, OR 97068	HOPPE HEATHER MARIE 2308 HEATHERFIELD RD NORMAN, OK 73071
√HORVATH E MARIE	✓HOXHA ARTAN	✓HUDSON CHRISTOPHER T
4256 TERRA VISTA CT	4064 GLEN TER	4160 KENTHORPE WAY
WEST LINN, OR 97068	WEST LINN, OR 97068	WEST LINN, OR 97068
/ IUS GINO L & GERMAINE A	/JAEGER CRAIG L & KATHLEEN A	JONES JASON & CYNTHIA
4040 GLEN TER	18705 NIXON AVE	13585 GLENCLIFF WAY
WEST LINN, OR 97068	WEST LINN, OR 97068	SAN DIEGO, CA 92130
KEARNEY PATRICK M & HEIDI S	√KILIAN RICHARD M & SHARON L	✓ KILSTROM LONN K & ANN M
19055 TRILLIUM DR	18837 NIXON AVE	3855 CEDAROAK DR
WEST LINN, OR 97068	WEST LINN, OR 97068	WEST LINN, OR 97068
/ KING EVALOIS A 4145 KENTHORPE WAY WEST LINN, OR 97068	KING LAMONT A 4257 KENTHORPE WAY WEST LINN, OR 97068	✓ KING MARSHALL R & NANCY L 18687 NIXON AVE WEST LINN, OR 97068

√ KURZENBERGER CARL T 4148 ELMRAN DR WEST LINN, OR 97068	✓LORANCE ESTHER I & MICHAEL C MONICAL 18735 NIXON AVE WEST LINN, OR 97068	✓MACNAUGHTON SCOTT C & TERE R 122 SW GIBBS ST PORTLAND, OR 97239
✓ MAGEE GERALD J & JUDITH C 18925 TRILLIUM DR WEST LINN, OR 97068	√MCCARTHY SEAN G 4142 CEDAROAK DR WEST LINN, OR 97068	MCDONALD CARMEN M & JENNIFER A 3882 KENTHORPE WAY WEST LINN, OR 97068
/ MCDONALD RYAN A & JENNIFER A 4194 CEDAROAK DR WEST LINN, OR 97068	✓ MCLACHLAN MONTE E & MARLA J 19045 NIXON AVE WEST LINN, OR 97068	✓MCNAMARA JOHN E & MARIANA PIERCEY 1611 6TH AVE WEST LINN, OR 97068
MEYERS GRACE J 4100 KENTHORPE WAY WEST LINN, OR 97068	/MILLER JEFFREY & SUSAN 4300 CEDAROAK DR WEST LINN, OR 97068	MILLER JOHN M & DONNA D 3825 RIDGEWOOD WAY WEST LINN, OR 97068
/ MILLER MILES J 18595 NIXON AVE WEST LINN, OR 97068	MOXON CHRISTOPHER J 3850 CEDAROAK DR WEST LINN, OR 97068	NICHOLS JAMES M & SHEILA M 4073 ELMRAN DR WEST LINN, OR 97068
/ NIELSON JAY & LISA M 4344 CEDAROAK DR WEST LINN, OR 97068	NORBY JOHN C & KARLENE A 4040 KENTHORPE WAY WEST LINN, OR 97068	✓ OLSEN LAWRENCE O 3993 KENTHORPE WAY WEST LINN, OR 97068
OREILLY MARGARET TESKE 4025 ELMRAN DR WEST LINN, OR 97068	✓OSTERGARD WALTER A & BONITA J 4450 ELMRAN DR WEST LINN, OR 97068	✓ PALMER DAVID & JANICE A 18741 NIXON AVE WEST LINN, OR 97068
PASS DAVID A & MARLYNN A PO BOX 382 WEST LINN, OR 97068	✓PENNINGTON TERRY LEE SR & KARYN A 19065 TRILLIUM DR WEST LINN, OR 97068	PERRY MAUREEN & JOSEPH A 4064 CEDAROAK DR WEST LINN, OR 97068
PIERCE DAVID O & METTE K IPSEN PO BOX 615 WEST LINN, OR 97068	PLETCHER BRIAN J PO BOX 106 MARYLHURST, OR 97036	✓POLLMANN DENNIS A & SHARON M 3879 KENTHORPE WAY WEST LINN, OR 97068
PORTER MICHELLE P 3927 RIDGEWOOD WAY WEST LINN, OR 97068	PREDEEK ERIC D & JENNIFER L 3880 KENTHORPE WAY WEST LINN, OR 97068	PRICE WYLIADA M & DARYL 3787 RIDGEWOOD WAY WEST LINN, OR 97068

•		
√RIDGEWAY STEVEN & KRISTI J 3915 CEDAROAK DR WEST LINN, OR 97068	ROLLINSON KEITH THOMAS & M A JANSEN 3925 GLEN TER WEST LINN, OR 97068	RONNING GERALD J & DONNA M 3753 RIDGEWOOD WAY WEST LINN, OR 97068
SAMS GREGORY W & JANET L 18811 TRILLIUM DR WEST LINN, OR 97068	/SCHELOT STEVEN N & SUSAN I 4167 GLEN TER WEST LINN, OR 97068	✓SCHOEPPER BRETT B 4095 KENTHORPE WAY WEST LINN, OR 97068
SCHWARK RYERSON E 18915 TRILLIUM DR WEST LINN, OR 97068	✓SHERMAN STEVE & RITA 19065 NIXON AVE WEST LINN, OR 97068	✓SHIIKI MICHAEL J & SARAH 18901 TRILLIUM DR WEST LINN, OR 97068
SOMMERSET SCOTT T & DENAIRE N PO BOX 62 WHEELER, OR 97147	✓SPEARS TONY L & LINDA L 4138 ELMRAN DR WEST LINN, OR 97068	✓ TOBIN STEPHAN A TRUSTEE 19025 NIXON AVE WEST LINN, OR 97068
✓ TORKAMAN AKIE PO BOX 1053 LAKE OSWEGO, OR 97034	✓ TREADGOLD SHARON M 4044 CEDAROAK DR WEST LINN, OR 97068	VANCE DELBERT CLARK & JEANNE A 4087 KENTHORPE WAY WEST LINN, OR 97068
✓WALKER SALLY A 1521 N JANTZEN ST PORTLAND, OR 97217	√WEDDLE CARSON FRANCIS & NORMA R 18675 NIXON AVE WEST LINN, OR 97068	✓ WELLS GEORGE A & RICHETTA M 3888 KENTHORPE WAY WEST LINN, OR 97068
✓ WEST LINN-WILS SCH DIST #3J 22210 SW STAFFORD RD TUALATIN, OR 97062	✓ WHITBEY WAYNE ALLEN & LORA LEE 2104 18TH ST WEST LINN, OR 97068	√WIITANEN RICHARD M & SHEILA 4092 ELMRAN DR WEST LINN, OR 97068
∕WILLIAMS KRISTI A & BRIAN D 19075 TRILLIUM DR WEST LINN, OR 97068	✓WILLIAMS PATRICIA B TRUSTEE 3896 CEDAROAK DR WEST LINN, OR 97068	✓ WOODARD DONNA 3979 KENTHORPE WAY WEST LINN, OR 97068
OREGON DEPT OF STATE LANDS 775 SUMMER ST NE SALEM, OR 97301-1279	√US ARMY CORP OF ENGINEERS PO BOX 2946 PORTLAND, OR 97208	TIM WOODLEY DIR OF OPERATIONS 2755 BORLAND RD TUALATIN, OR 97062

√Nancy Hubbard

PO Box 702

Hubbard & Associates

Tualatin, OR 97062

WEST LINN CHAMBER OF

WEST LINN OR 97068

1745 WILLAMETTE FALLS DR

COMMERCE

/KEITH LIDEN, AICP

Parsons Brinckerhoff

Portland, OR 97204

400 SW 6th Ave., Ste. 802

STEVE GARNER
BHT NA PRESIDENT
3525 RIVERKNOLL WAY
WEST LINN OR 97068

SALLY MCLARTY
BOLTON NA PRESIDENT
19575 RIVER RD # 64
GLADSTONE OR 97027

ALEX KACHIRISKY
HIDDEN SPRINGS NA PRESIDENT
6469 PALOMINO WAY
WEST LINN OR 97068

JEF TREECE
MARYLHURST NA PRESIDENT
1880 HILLCREST DR
WEST LINN OR 97068

PARKER CREST NA PRESIDENT 3016 SABO LN WEST LINN OR 97068 ANTHONY BRACCO
ROBINWOOD NA PRESIDENT
2716 ROBINWOOD WAY
WEST LINN OR 97068

DEAN-SUHR
ROSEMONT SUMMIT NA PRESIDENT
21345 MILES DR
WEST LINN OR 97068

DAVE RITTENHOUSE
SAVANNA OAKS NA PRESIDENT
2101 GREENE ST
WEST LINN OR 97068

KRISTIN CAMPBELL SKYLINE RIDGE NA PRESIDENT 1391 SKYE PARKWAY WEST LINN OR 97068

TROY BOWERS
SUNSET NA PRESIDENT
2790 LANCASTER ST
WEST LINN OR 97068

BETH SMOLENS
WILLAMETTE NA PRESIDENT
1852 4TH AVE
WEST LINN OR 97068

ALMA COSTON
BOLTON NA DESIGNEE
PO BOX 387
WEST LINN OR 97068

/ SUSAN VAN DE WATER
HIDDEN SPRINGS NA DESIGNEE
6433 PALOMINO WAY
WEST LINN OR 97068

KEVIN BRYCK ROBINWOOD NA DESIGNEE 18840 NIXON AVE WEST LINN OR 97068 DOREEN VOKES
SUNSET NA SEC/TREAS
4972 PROSPECT ST
WEST LINN OR 97068

DR-12-10/WAP-12-02





telephone: (503) 657 0331

fax: (503) 650 9041

West Linn

April 19, 2012

Tim Woodley
Director of Operations
West Linn-Wilsonville School District
27585 SW Borland Rd.
Tualatin, OR 97062

SUBJECT: DR-12-10/WAP-12-02 application for storm water system modifications at Cedaroak Primary School, 4515 Cedaroak Dr.

Dear Mr. Woodley:

You submitted this application on March 28, 2012. The Planning Department finds that this application is **complete** as of your resubmittal on April 18, 2012. The City now has 120 days (until August 16, 2012) to exhaust all local review per state statute. The application will shortly be scheduled for a Planning Director decision. At least 20 days before the scheduled decision date you will be sent a copy of the decision notice.

Please contact me at 503-742-8660, or by email at <u>tsoppe@westlinnoregon.gov</u> if you have any questions or comments.

Sincerely,

Tom Soppe Associate Planner

c: Keith Liden, AICP, Parsons Brinckerhoff, 400 SW 6th Ave., Ste. 802, Portland, OR 97204

c: Nancy Hubbard, Hubbard & Associates, PO Box 702, Tualatin, OR 97062

c: Tony Bracco, Robinwood Neighborhood Association President, 2716 Robinwood Way, West Linn, OR 97068

p:/devrvw/projects folder/projects 2012/DR-12-10 Cedaroak School/compl-DR-12-10





FILE NO.:

DR-12-10/WAP-12-02

REQUEST:

CLASS I DESIGN REVIEW AND WATER RESOURCE AREA

PERMIT FOR NEW STORMWATER POND AND

ASSOCIATED PIPING AND FENCING AT CEDAROAK

PRIMARY SCHOOL AT 4515 CEDAROAK DRIVE

APPLICANTS SUBMITTAL



Transmittal

400 SW Sixth Avenue Suite 802 Portland, OR 97204

copy to:

Tel: (503) 274-8772 Fax: (503) 274-1412

to:	Tom Soppe			from: Keith Liden				
	City of West Linn Planning Department		date: 4.18.12					
	22500 Salamo Ro	ad			project: Cedaroak Primary School DR I			
	West Linn, OR 970	068			file number: DR-12-10/WAP-12-02			
via:		for your:		the follo	owing:			
□ mail		☐ Information/	use	□ shop	drawings	□ change order	□ specifi	ications
X messei	nger	X approval		□ сору	of letter	□ plans	□ CD	
□ fed-ex		□ review/comr	nent	□ prints	5	□ samples	X applica	ation packages
			Signed appl	ication f	form		1	3.27.12
			CD of all ma	aterials			1	-
			Application	packet i	ncluding:		3	4.18.12
			1. Narrative	е				
					l size) – C1.1, C1.: I, C4.1, and L1.1	2, C1.3,		
			3. Plan she	eets (11	x17 reductions)			
			4. Respons	e to inc	omplete items			
Commen	ts:							
Question	ns/additional infor	mation contact:						
Keith Lid	len, 503.224.4066	/ <u>liden@pbwo</u>	rld.com					



400 SW Sixth Avenue Suite 802 Portland, OR 97204-1628 503-274-8772 Fax: 503-274-1412

April 18, 2012

Tom Soppe, Associate Planner West Linn Planning Department 22500 Salamo Road West Linn, OR 97068

RE: DR-12-10/WAP 12-02 Cedaroak Primary School

Dear Tom,

In response to your April 6th letter indicating the Design Review application was incomplete, we made the requested changes. Attached are three sets of the narrative, amended plan sheets, reduced 11X17-inch versions of the plan sheets, and a CD of all the materials.

The information related to the Community Development Code sections in your letter have been provided in the following manner:

- 55.090(A) This criterion is now addressed in the narrative.
- 55.120(D) and 32.060(B)(3) The plan sheets have added an "unnamed drainage" label for the stream.
- 32.040(G) A table was added to Sheet C1.3 showing the ground cover percentages.
- 32.040(G) A table was added to Sheet C1.3 showing the ground cover percentages.
- 32.060(A) The name and address information is provided on the cover sheet.
- 32.060(B)(2) Shading of the 25% slope areas is provided on Sheet C1.3.
- 32.060(B)(6) A general description of the site vegetation is provided on Sheet C1.3.
- 32.070(B) The proposed fee-in-lieu arrangement proposed in coordination with parks is described in more detail in the narrative.

Please contact me if you need anything further.

Sincerely,

Keith S. Liden, AICP

cc: Nancy Hubbard Seth Stevens, GHD



Planning & Development • 22500 Salamo Rd #1000 • West Linn, Oregon 97068 Telephone 503.656.4211 • Fax 503.656.4106 • westlinnoregon.gov

DEVELOPMENT REVIEW APPLICATION

	VELOT MENT INEVIEW AND IN	LICATION
STAFF CONTACT	PROJECT NO(s).	
Non-Refundable Fee(s)	REFUNDABLE DEPOSIT(S)	TOTAL
Type of Review (Please check all that ap	pply):	
Appeal and Review (AP) * Conditional Use (CUP) X Design Review (DR)I Easement Vacation Extraterritorial Ext. of Utilities Final Plat or Plan (FP) Flood Management Area Hillside Protection & Erosion Control Home Occupation, Pre-Application, Sie	Historic Review Legislative Plan or Change Lot Line Adjustment (LLA) */** Minor Partition (MIP) (Preliminary Plat or Plan-Conforming Lots, Uses & Structures Planned Unit Development (PUD) Pre-Application Conference (PA) */** Itreet Vacation dewalk Use, Sign Review Permit, and Tems, available on the City website or at City	X Water Resource Area Protection/Single Lot (WAP) Water Resource Area Protection/Wetland (WAP) Willamette & Tualatin River Greenway (WRG) Zone Change
Site Location/Address:		Assessor's Map No.: 2S 1E 24BA
4515 S. CEDAROAK DRIVE		Tax Lot(s): 1800
WEST LINN, OR 97068		Total Land Area: 11.22 acres
Brief Description of Proposal: PROV PRIMARY SCHOOL SITE	VIDE STORM DRAINAGE IMPR	ROVEMENTS ON THE CEDAROAK
Applicant Name: TIM WOODLEY		Phone: 503-673-7995
Address: 2755 SW BORLAN	ID RD	Email: woodleyt@wlwv.k12.or.us
City State Zip: TUALATIN, OR 97	062	
Owner Name (required): WEST LINN V	VILSONVILLE	Phone: 503-673-7995
Address: 22210 SW ST	'AFFORD RD	Email: woodleyt@wlwv.k12.or.us
City State Zip: TUALATIN, C		
Consultant Name: KEITH LIDEN, PAI	RSONS BRINCKERHOFF	Phone: 503-478-2348
Address: 400 SW 6 TH AVE.,	SUITE 802	Email: liden@pbworld.com
City State Zip: PORTLAND OR 97	204	
 All application fees are non-refundable (e The owner/applicant or their representati A denial or approval may be reversed on a Three (3) complete hard-copy sets (single One (1) complete set of digital application of large sets of plans are required in application. 	ve should be present at all public hear ppeal. No permit will be in effect unti sided) of application materials must n materials must also be submitted on cation please submit only two sets.	ings. I the appeal period has expired. be submitted with this application.
* No CD required / ** Only one hard-copy	set needed	
	ny application. Acceptance of this application rregulations adopted after the application i	rizes on site review by authorized staff. I hereby agree to on does not infer a complete submittal. All amendments is approved shall be enforced where applicable. ce at the time of the initial application.
frosk WHILM	3:27.12 m	WMM 327.12
Applicant's signature	Date Owner's	signature (required) Date

CEDAROAK PARK PRIMARY SCHOOL Class I Design Review and Water Resource Area Permit April 18, 2012

APPLICATION SUMMARY

For Class I Design Review and Water Resource Area Permit to reconfigure some of the existing storm water collection, detention, and treatment system at Cedaroak Park Primary School.

GENERAL INFORMATION

Location

4515 South Cedaroak Drive (2S 1E Section 24 BA, Tax Lot 1800). Its location is shown in Figure 1.

Comprehensive Plan and Zoning Designations

The Comprehensive Plan designation is Low Density Residential.

Consistent with the Comprehensive Plan, the property is zoned Single Family Residential Detached (R10).

Applicant and Owner

Tim Woodley, Director of Operations West Linn-Wilsonville School District 2755 SW Borland Road Tualatin, OR 97062

Phone: 503-673-7976

E-mail: woodleyt@wlwv.K12.or.us

Applicant's Representatives

Keith Liden, AICP Parsons Brinckerhoff 400 S. W. 6th Avenue, Suite 802 Portland, OR 97204

Phone: 503-478-2348 Fax: 503-274-1412

E-mail: liden@pbworld.com

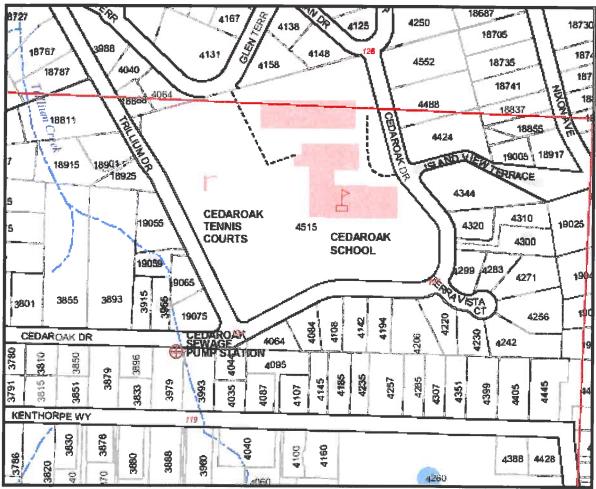
Nancy Hubbard Hubbard & Associates PO Box 702 Tualatin, OR 97062 Phone: 503-819-7505

E-mail: hubbard.associates@frontier.com

Plan Sheets

C1.1	Cover Sheet
C1.2	Existing Conditions
C1.3	Overall Site Plan
C2.1	Utility Plan - North
C2.2	Utility Plan - South
C3.1	Detention Pond Plan and Details
C4.1	Erosion Control Plan
L1.1	Detention Pond Planting Plan

Figure 1: Vicinity Map



Source: City of West Linn

Figure 2: Aerial Photo



Source: City of West Linn

BACKGROUND INFORMATION

Site Description

The site is developed with Cedaroak Park Primary School, including the school building, driveway, parking, and play fields. The entire site is approximately 11.22 acres. In addition to the school building, an athletic field is located on the southwest side of the school. Primary access to the school is provided by South Cedaroak Drive, which runs along the south and east sides of the site.

Much of the site storm drainage is handled by a system of drywells. The dry well system is old and has been showing signs of failure. Areas of the site frequently have standing water during and after moderate rainfall events.

Surrounding Area Description

The zoning designations and current land use of the surrounding area are summarized in Table 1.

Table 1
Land Use Summary

Properties in the Vicinity	Zone Designation	Land Use		
Subject Property				
2S 1E Section 24 BA, Tax Lot 1800 (11.22 acre school site owned by school district)	R10	Primary School building, ancillary facilities, and parking.		
Surrounding Properties North/East/South/West	R10	Single family residences		

SCHOOL SITE IMPROVEMENTS

The district proposes to install a new underground piping system and storm water detention pond to accommodate the roof drainage from the school and replace the dry well system. The pond is proposed immediately south of the headwaters of an open channel in the north central portion of the site on the west side of the school building. A 4-foot high chain link fence is proposed around the upper bank of the detention pond. A pipe and discharge are proposed to drain the pond into the open channel at its beginning. This open channel is classified as a stream by the city once it flows north of Glen Terrace, which is along the northern property boundary.

The proposed storm water detention pond will be partially located within the 50-foot setback area from the creek, which the city defines as a Water Resources Area. The city requires that areas disturbed within Water Resources Area be mitigated either on-site or off-site. The school district has opted to pay into the city's fund for off-site mitigation in lieu of providing mitigation on-site. The total disturbed area within this setback is approximately 1,400 square feet. In addition to the off-site mitigation, the district also proposes re-vegetating the disturbed area in a manner consistent with CDC Chapter 32 requirements (Sheet L1.1).

The district has initiated preliminary discussions with the West Linn Parks Department to provide the off-site mitigation on city park property. The details of the specific location and design of the off-site mitigation has not yet been determined. Therefore, some of the information requested in Section 32.070(B) regarding location, design, and schedule cannot be provided at this time.

DESIGN REVIEW CRITERIA

Section 55.090(A) refers to specific portions of Section 55.100 that apply to Class I Design Review applications. Sections (A)(1) and (2), which refer to Sections 55.100 (B)(1) through (6) are addressed below under Section 55.100. Regarding Section 55.090 (A)(3), the additional information and findings requested in the preapplication notes are addressed as noted below.

Section 55.090(B) states that adequate public facilities must be available. This criterion is satisfied because the school is currently served by a full range of public utilities and streets.

Section 55.100 contains the applicable approval standards for a Class I Design Review. At the conclusion of the preapplication conference, the planning staff determined that the application must meet the following criteria in Chapter 55:

- 55.100(A)(1) Storm water
- 55.100(A)(6) Fences
- 55.100(A)(10) Landscaping
- 55.100(C) Compatibility, buffering, and screening
- 55.100(I)(2) Drainage

These criteria are addressed below.

A. The provisions of the following chapters shall be met:

1. Chapter 33 - Storm Water Quality and Detention

The approval criteria in Section 33.040 identify a number of things that must be accomplished according to city requirements during construction. These requirements will be met in coordination with the district, Planning Director, and City Engineer. A new storm water pond is proposed and will be designed to provide storm water detention in accordance with CDC chapter 33. Explicit storm water treatment is not proposed as there is no new impervious area proposed as part of this project, although some level of storm water treatment will be provided by the storm water pond.

6. Chapter 44, Fences and Screening Outdoor Storage

The proposed 4-foot high chain link fence for the detention pond is below the maximum height allowed, and therefore meets this criterion.

10. Chapter 54, Landscaping

The landscaping plan to re-establish landscaping removed during construction will comply with the city's landscaping requirements. The approval criteria are satisfied as noted below:

Sections 54.020 A, B, and C encourage preservation of existing trees. No trees will be removed.

Section 54.020 D. does not apply because there are no heritage trees on the site.

Section 54.020 E. is satisfied because well over 20% of the site will be landscaped, and dimensional requirements for landscaped areas will continue to be met.

B. Relationship to the Natural and Physical Environment

Sections 55.100 B. 1. and 2. are not relevant because there are no heritage trees on the site.

Section 55.100 B. 3. is satisfied because grading will only involve the storm water improvements, and the natural drainage pattern will not be altered.

Section 55.100 B. 4. is satisfied because the property is geologically stable. Furthermore, the existing school building will not be modified.

Sections 55.100 B. 5. through 6. are not relevant because the site improvements will not involve any modifications to the school building.

C. Compatibility Between Adjoining Uses, Buffering and Screening

The school has operated in the neighborhood for a sustained period, and it has proven to be a good neighbor. The modification of the storm water system and the related stream corridor restoration will be environmentally beneficial, and it will not change the current school operation in any way.

I.2. Public Facilities - Drainage

The plans were created by a registered civil engineer, and the storm water detention pond and outfall culvert have been designed to prevent any inappropriate volumes of storm water to flow downstream. Also, this project does not include expanding any impervious surfaces on the property.

WATER RESOURCES AREA PERMIT CRITERIA

At the conclusion of the preapplication conference, the city staff determined that the Water Resource Area permit application must meet the following criteria in Chapter 32 — Water Resource Area Protection of the Community Development Code (CDC):

- 32.040 Application
- 32.050 Approval Criteria
- 32.060 Site Plan
- 32.070 Mitigation Plan
- 32.080 Revegetation Plan Requirements

Section 32.040 Application

This section is satisfied because the plan sheet package provides all of the information and narrative responses required by this section.

Section 32.050 Approval Criteria

This section contains a number of requirements relating to the protection of water resources.

- **A.** This section is satisfied because the required information and evaluation is provided as part of this application, including analysis and design by a registered civil engineer.
- B. This section calls for maintaining existing natural drainageways. In this case, the district proposes to minimize encroachment into the headwater of the unnamed creek. This storm water detention pond will be partially within the 50-foot setback area for the creek, but none of the storm drainage facilities will require any modification of the creek. The southern edge of the creek headwater will need to be re-graded to accommodate the storm water detention pond, but the integrity of the natural creek drainage will be retained.
- C. The storm water facilities are located to provide proper drainage of the school property, and locating the storm water detention pond in close proximity to the natural channel where this run-off should flow. A small portion of the water quality resource associated with the creek headwater area will be affected, and a mitigation plan and restoration plan are proposed, consistent with CDC Chapter 32 requirements.
- D. The district is committed to protect the water resource areas on the site into the future. It will work with the city staff during final design and permitting to accomplish this. Buildings and structures on the site will not be enlarged or moved closer to the creek, and therefore, existing setbacks shall be maintained.
- E. This section describes how the protected water resource area setback and transition areas are determined. These structures shall remain in their current locations. A mitigation plan will compensate for the minor encroachment of the storm water detention pond within the 50-foot setback area for the creek headwater. The district has had preliminary communication with the city parks department regarding off-site mitigation on city park property.
- F. This criterion does not apply because no roads, driveways, or utility crossings are proposed.
- G. The district will work with the city to maximize the protection of the resource as intended by this criterion, which calls for chain link fencing (or approved equivalent). Orange construction fencing is proposed as an alternative. As noted above, a permanent 4-foot chain link fence is proposed to be installed at the top of bank of the detention pond.
- H. This criterion does not apply because no new paved surfaces are proposed.
- I. All plans have been developed by experienced civil engineers and landscape architects with the goal of maintaining and enhancing the water and natural resources on the site. Storm drainage will not be diverted into another basin with this proposal. The design of these elements will meet the city requirements.

- J. All erosion control measures prescribed by the city shall be followed at all times. Design of these elements will meet the city of West Linn and Oregon Stated Department of Environment Quality requirements.
- K. Due to the nature of this project and the amount of disturbance, a re-vegetation plan is required. The re-vegetation plan proposed by the district will provide the combination of ground cover, shrubs, and trees required by this section and CDC 32.080 (addressed below).
- L. As noted above, no new structures are proposed within or near the setback area.
- M. This criterion does not apply because storm water treatment facilities are not proposed.
- **N.** This criterion is not applicable because opening a covered or piped drainage is not proposed.
- O. This criterion does not apply because no new buildings or building remodeling is proposed.
- P. This criterion is not applicable because all relevant storm drainage channels have been identified.

Section 32.060 Site Plan

This section is satisfied because the plan sheet package provides all of the information required by this section.

Section 32.070 Mitigation Plan

This section contains a number of requirements relating to the mitigation of potential adverse impacts on water resource areas.

- A. This section is satisfied because the proposed restoration within the water resource area will retain or improve the existing vegetation. Because of how storm water leaves the site, the storm water detention pond and outfall must be located as proposed. The restoration work includes the minimum area necessary, and it avoids any work in the stream channel.
- **B.** As noted, this project is not designed to accommodate new development. The bank stabilization improvements are proposed to correct an existing situation. The stream corridor on the property will be properly restored and replanted as shown in this application. The district and its contractors will be responsible for the on-site work and assuring its proper completion.

Because of the limited size of the site, there is no room available for 1:1 on-site mitigation, and the district has initiated preliminary discussions with the West Linn Parks Department to pay a fee-in-lieu to provide of off-site mitigation on city park property. However, the location, design, and schedule have not been determined at this time.

- **C.** Because of the limited mitigation area on the school site, off-site mitigation is proposed. Conversations with city staff concur with this approach. The total disturbed area, which requires mitigation, is approximately 1,400 square feet.
- D. This criterion is not applicable because no wetland areas are involved.
- **E.** Once an off-site mitigation area is identified, the district will work with the city, to ensure its protection. Preliminary communication with the parks department indicates that the off-site mitigation can be located on park property.

Section 32.080 Revegetation Plan Requirements

This section contains a number of requirements relating to revegetating water resource areas. These standards were followed when the landscaping and planting plans were developed for this application.

- A. Temporary irrigation shall be provided by the district until the plants are established.
- **B.** As shown in the Detention Pond Planting Plan (Sheet L1.1), any non-native plants shall be removed and replaced with native vegetation.
- C. This section is not relevant because no existing trees or shrubs will be removed.
- **D.** The new trees proposed to surround the detention pond will be distributed in a manner consistent with this CDC section. The densest planting is proposed within the 50-foot setback area for the stream headwater.
- **E.** The proposed landscaping plan contains a variety of trees and shrubs, which comply with the requirements in this section.
- **F.** The district plans to hand water the new vegetation until it becomes established. It shall provide the necessary assurances for plant survival as required by the city.

CONCLUSION

The proposed storm water improvements satisfy all the relevant criteria as demonstrated above.

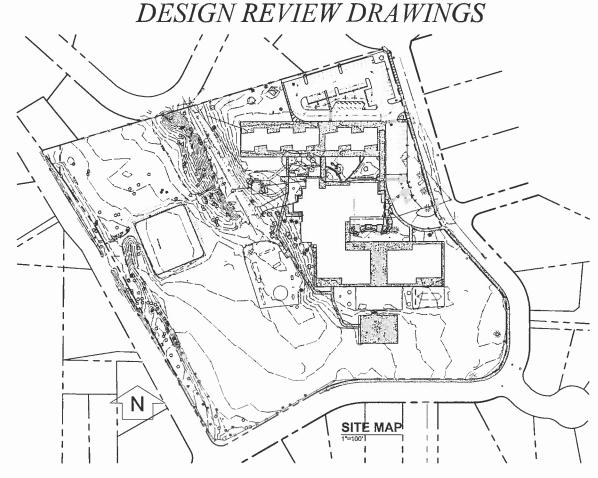
VICINITY MAP

ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090, YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES. YOU MAY CONTACT THE CENTER, YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION, CALL 503-246-6699.

GRADING NOTES

- 1. SURVEY OF EXISTING CONDITIONS PREPARED BY COMPASS ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT-OF-WAY LINES. SLOPE EASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR, STAKING WILL BE REVIEWED BY OWNER FOR CONFORMATION TO DESIGN PRIOR TO
- 3. ALL GRADES BETWEEN SPOT ELEVATIONS SHALL HAVE UNIFORM SLOPE UNLESS OTHERWISE INDICATED. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING WALLS AND DOORS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION.
 ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO
 PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF
- ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS. DISTURBED LANDSCAPED AREAS SHALL RECEIVE BARK DUST AND REPLACEMENT PLANTINGS. DISTURBED NATURAL AREAS SHALL BE HYDROSEEDED TO REPLACE NATIVE COVER. DISTURBED GRAVEL AREAS SHALL RECEIVE REPLACEMENT GRAVEL OR CRUSHED ROCK SURFACING.
- 6. ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.
- DURING WET WEATHER PERIODS, CONTRACTOR IS RESPONSIBLE FOR SEQUENCING CONSTRUCTION IN A MANNER TO MINIMIZE IMPACT ON OPEN EARTHWORK AND COMPACTION OPERATIONS.
- ALL EXISTING MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION, IF ANY MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY STATE LAW.
- COMPLETELY COVER ANY SOIL STOCKPILES WITH 6 MIL BLACK PLASTIC AND PROVIDE RESTRAINTS TO HOLD PLASTIC IN PLACE, MONITOR PLASTIC COVER AS PART OF CONTINUOUS EROSION CONTROL PLAN, PLACE SILT FENCE
- 10. A GRADING PERMIT MUST BE OBTAINED PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE.



GENERAL EROSION CONTROL NOTES

- THE PROPOSED EROSION CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEMS. THE CONTRACTOR MAY ALSO BE DIRECTED BY THE CITY ENGINEER CITY INSPECTOR, OR PROJECT ENGINEER TO CONTROL DUST AND AIRBORNE
- 2. PRIOR TO COMMENCEMENT OF GRADING ACTIVITY AND AFTER INSTALLATION OF EROSION CONTROL MEASURES, CONTRACTOR IS TO CONTACT THE CITY OF WEST LINN FOR THEIR SITE REVIEW AND APPROVAL
- 3. ALL EROSION CONTROL PERMITS MUST BE OBTAINED PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE.

DEMOLITION NOTES

- 1. DEMOLITION REQUIREMENTS SHOWN ON THESE DRAWINGS ARE INTENDED TO ILLUSTRATE THE GENERAL SCOPE OF DEMOLITION AND ARE GENERALLY DIAGRAMMATIC. THEY DO NOT IDENTIFY EVERY ELEMENT TO BE REVISED.

 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A DETAILED SCOPE OF

 DEMOLITION FROM OWNER AND FROM EXAMINATION OF EXISTING SITE
- CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN, PRIOR TO CONSTRUCTION, OUTLINING ALL ITEMS TO BE REMOVED.
- 3. DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE EXCEPT THOSE ITEMS
- 4. ALL LINES THAT ARE CUT AT THE LIMITS OF DEMOLITION OR POINT OF DISCONNECTION WITHIN THE WORK AREA SHALL BE CAPPED OR PLUGGED WATER TIGHT TO CITY'S OR OWNER'S APPROVAL
- DEMOLITION PERMIT MUST BE OBTAINED AND APPROPRIATE EROSION CONTROL MEASURES IN PLACE PRIOR TO ANY DEMOLITION ACTIVITIES TAKING PLACE.

GENERAL SITE NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- 2. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE-IN POINTS, REPORT DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION
- 3. IN AREAS WHERE ASPHALT PAVING IS BEING REWORKED, PROVIDE NEW PAINT STRIPING FOR ALL REVISED PAVING WORK AND PARKING STALLS. EXISTING STRIPING TO BE BLACKENED OUT IN RECONFIGURED AREAS AS REQUIRED.
- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH CITY INSPECTOR(S), CONTRACTOR SHALL NOTIFY CITY INSPECTOR(S) 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 5. DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF PERMIT APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD
- 7. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LINN STANDARDS AND SPECIFICATIONS.

SHEET INDEX

C1.1 COVER SHEET C1.2 EXISTING CONDITIONS C1.3 OVERALL SITE PLAN
C2.1 UTILITY PLAN - NORTH C2.2 UTILITY PLAN - SOUTH C3.1 DETENTION POND PLAN & DETAILS

OWNER

WEST LINN-WILSONVILLE SCHOOL DISTRICT 2755 SW BORLAND ROAF

CIVIL ENGINEER

15575 SW SEQUOIA PARKWAY, SUITE 140 PORTLAND, OR 97224

LANDSCAPE ARCHITECT

WALKER-MACY 111 SW OAK STREET, SUITE 200 PORTLAND, OR 97204 (503) 228-3122

CIVIL ABBREVIATIONS

EXISTING GROUND FINISHED GROUND FINISHED SURFACE GUTTER / GAS

INVERT ELEVATION NOT TO SCALE

STORM DRAIN

WATER

- 2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH
- 3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
- CONTRACTOR SHALL COORDINATE A UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES BOTH IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH MUNICIPALITY HAVING JURISDICTION FOR ALL UTILITY WORK WITHIN A PUBLIC RIGHT-OF-WAY, INFORM ENGINEER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS, PRE-SURVEY LOCATING
- OF ALL ABOVE AND RELOW GRADE UTILITIES DURING CONSTRUCTION
- ALL UTILITY CONSTRUCTION ON PRIVATE PROPERTY SHALL CONFORM TO THE LATEST EDITION OF THE OREGON PLUMBING SPECIALTY CODE. ALL UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION.
- 7. ALL BURIED LINES TO HAVE 2 FEET MINIMUM COVER, UNLESS NOTED OTHERWISE.
- 8. DOWNSPOUT AND BUILDING LITH ITY CONNECTIONS TO BE SHOWN ON BUILDING PLUMBING DRAWINGS. REFER TO PLUMBING DRAWINGS FOR CONTINUATION OF UTILITY LINES INTO BUILDING,
- 9. THRUST RESTRAINTS IS REQUIRED ON ALL PRESSURE LINE BENDS AND FITTINGS
- 11. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE
- CONFIRM FIRE HYDRANT TYPE, NOZZLE SIZES, AND THREAD CONFIGURATIONS WITH LOCAL MUNICIPALITY HAVING JURISDICTION PRIOR TO CONSTRUCTION.
- CONFIRM ALL UTILITY VALVE VALUES, VALVES, METERS, BACKFLOW PREVENTION ASSEMBLIES, AND OTHER PUBLIC UTILITY APPURTENANCES IN THE RIGHT-OF-WAY WITH THE MUNICIPALITY HAVING JURISDICTION.

STORM DRAIN CATCH BASIN

TOP OF CURB TOP OF PIPE

UTILITY NOTES

LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.

EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION,

- REQUESTS SHALL BE 14 DAYS IN ADVANCE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE, LOCATE, PROTECT, AND AVOID DISRUPTION

- 10. SEE LANDSCAPE DRAWINGS FOR IRRIGATION LINES.

PRELIMINARY - NOT FOR CONSTRUCTION

GHD Inc. 15575 SW Se Portland, Ore. T 1 503 226 3 W www.atd.c.

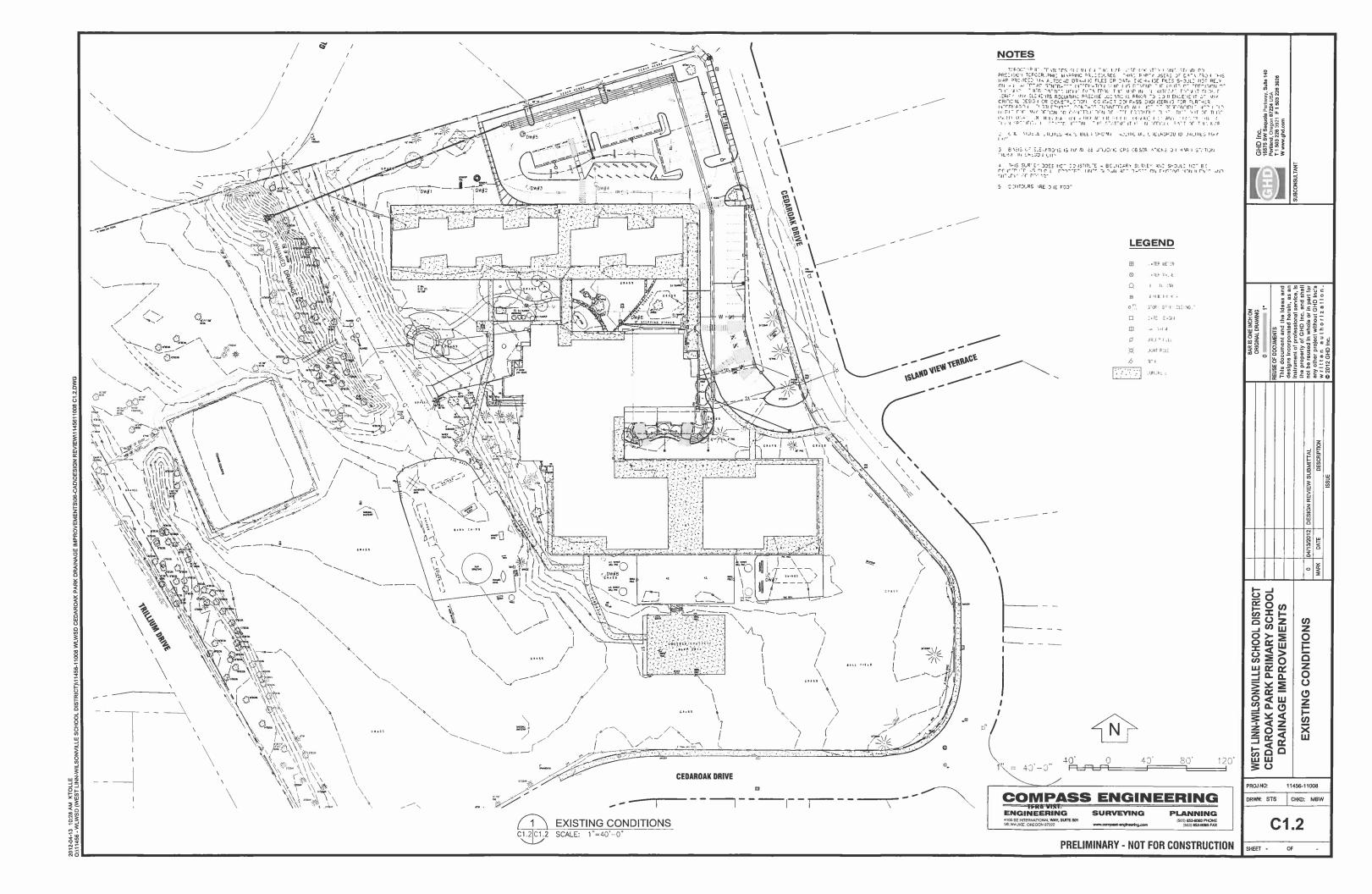


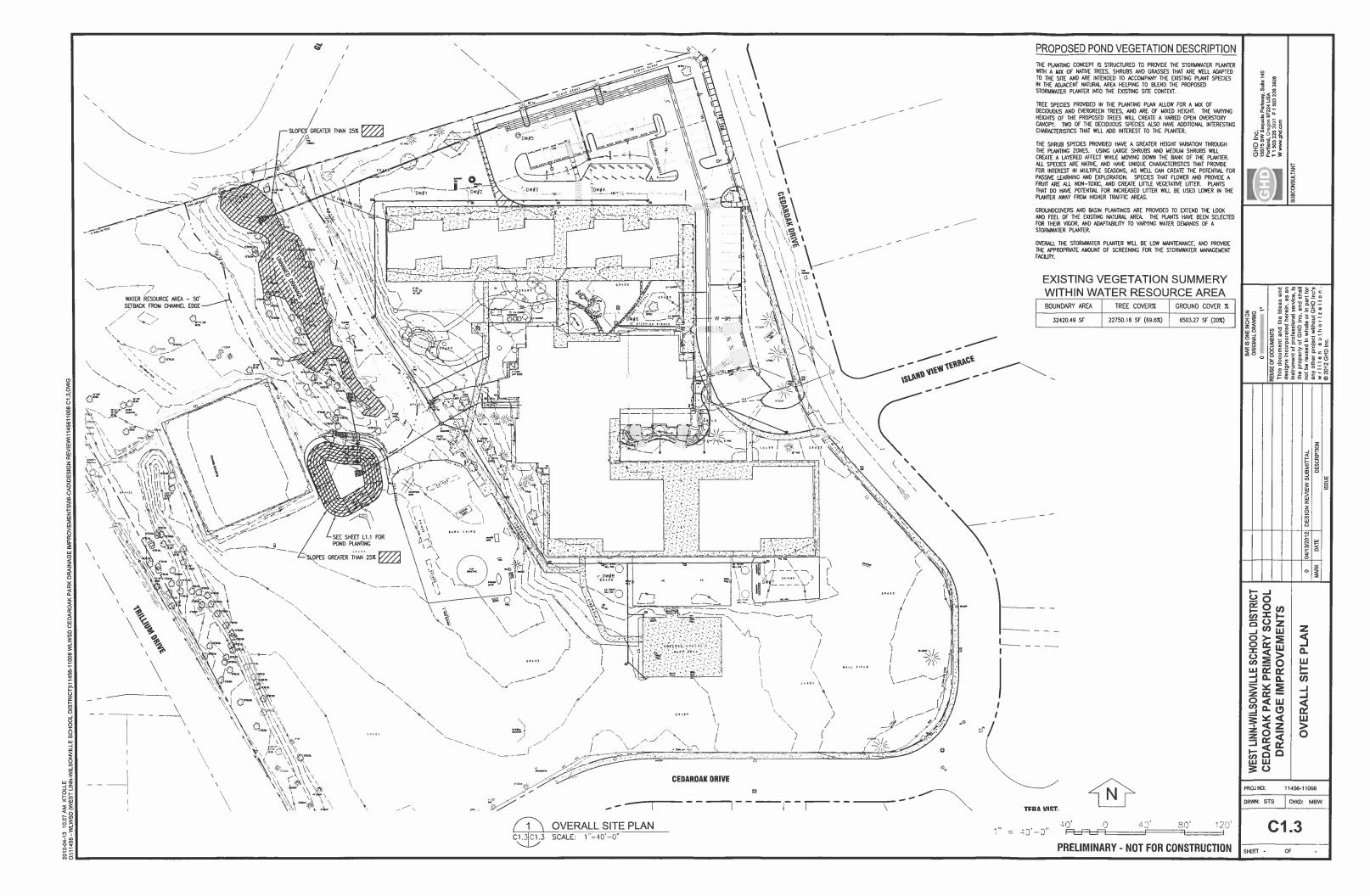
WEST LINN-WILSONVILLE SCHOOL DISTRICT CEDAROAK PARK PRIMARY SCHOOL DRAINAGE IMPROVEMENTS SHEET COVER

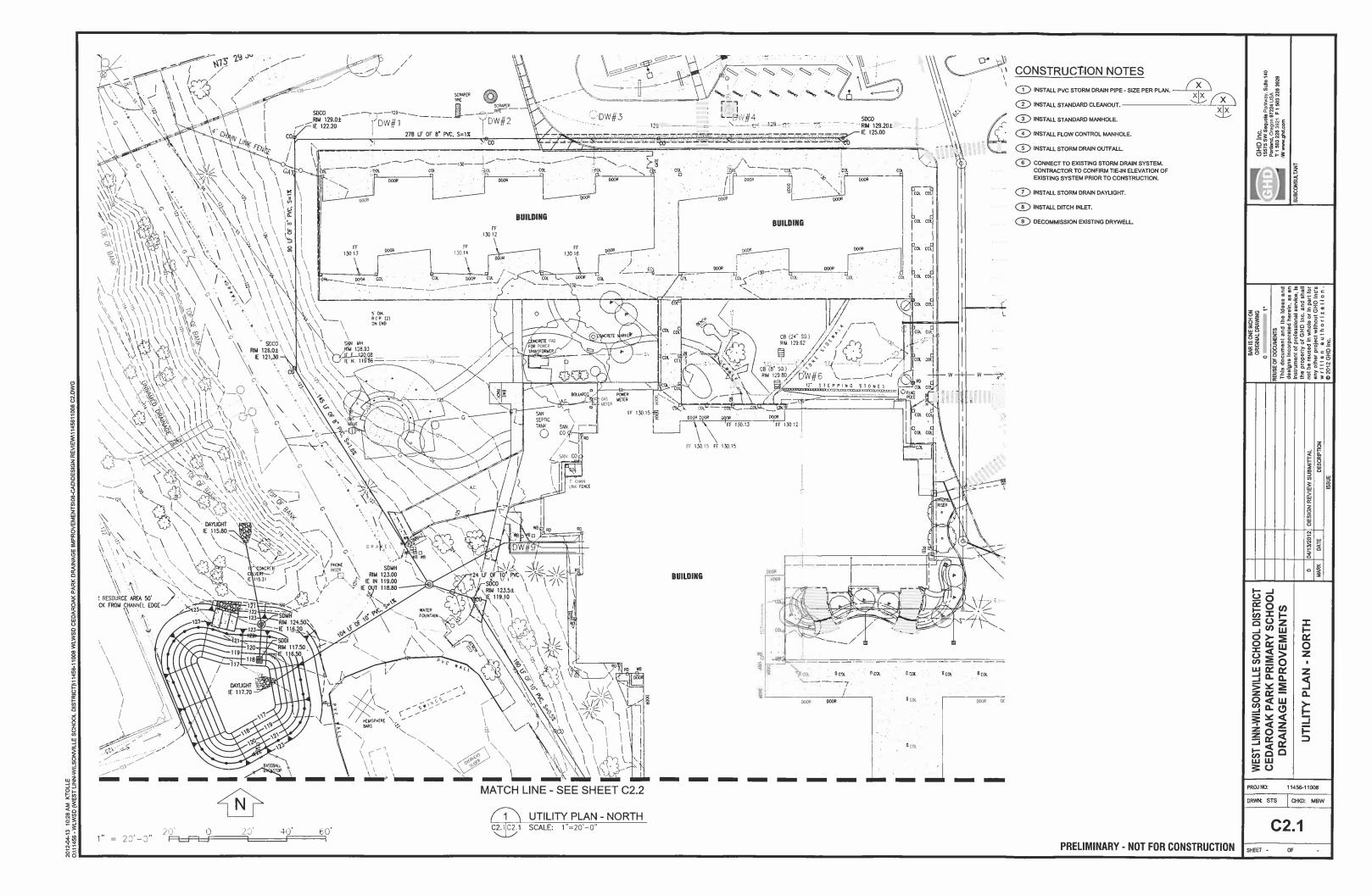
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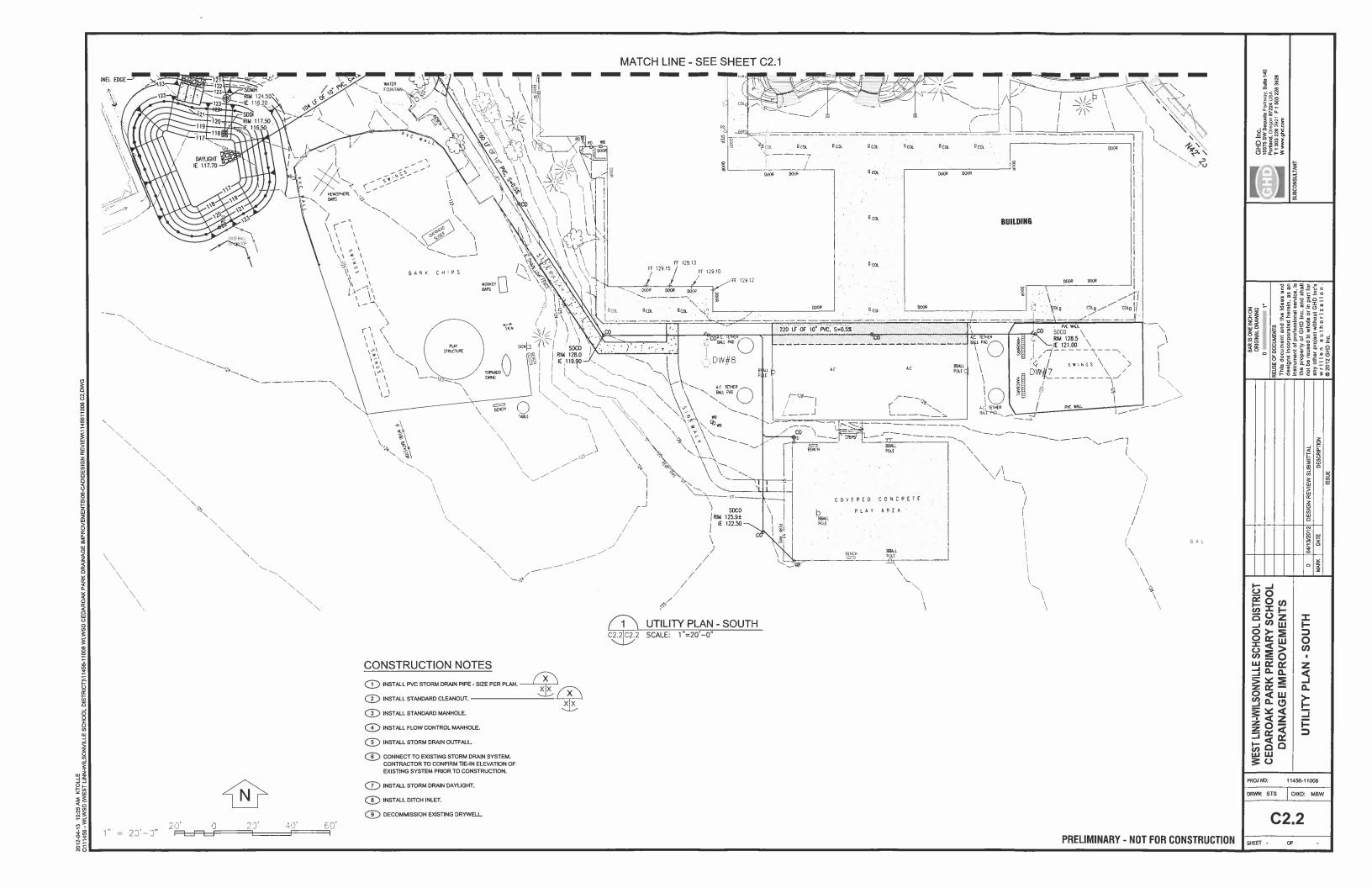
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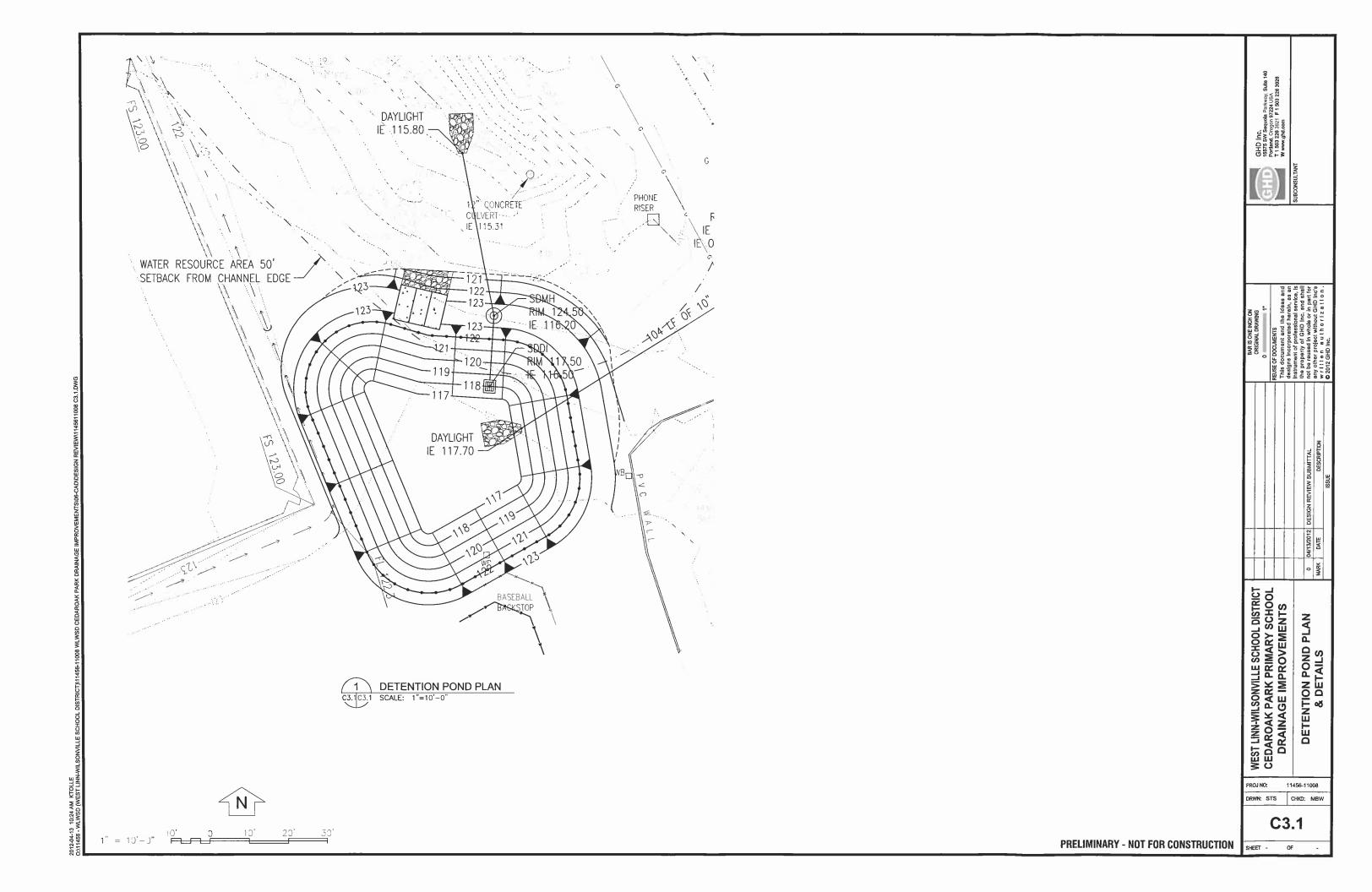
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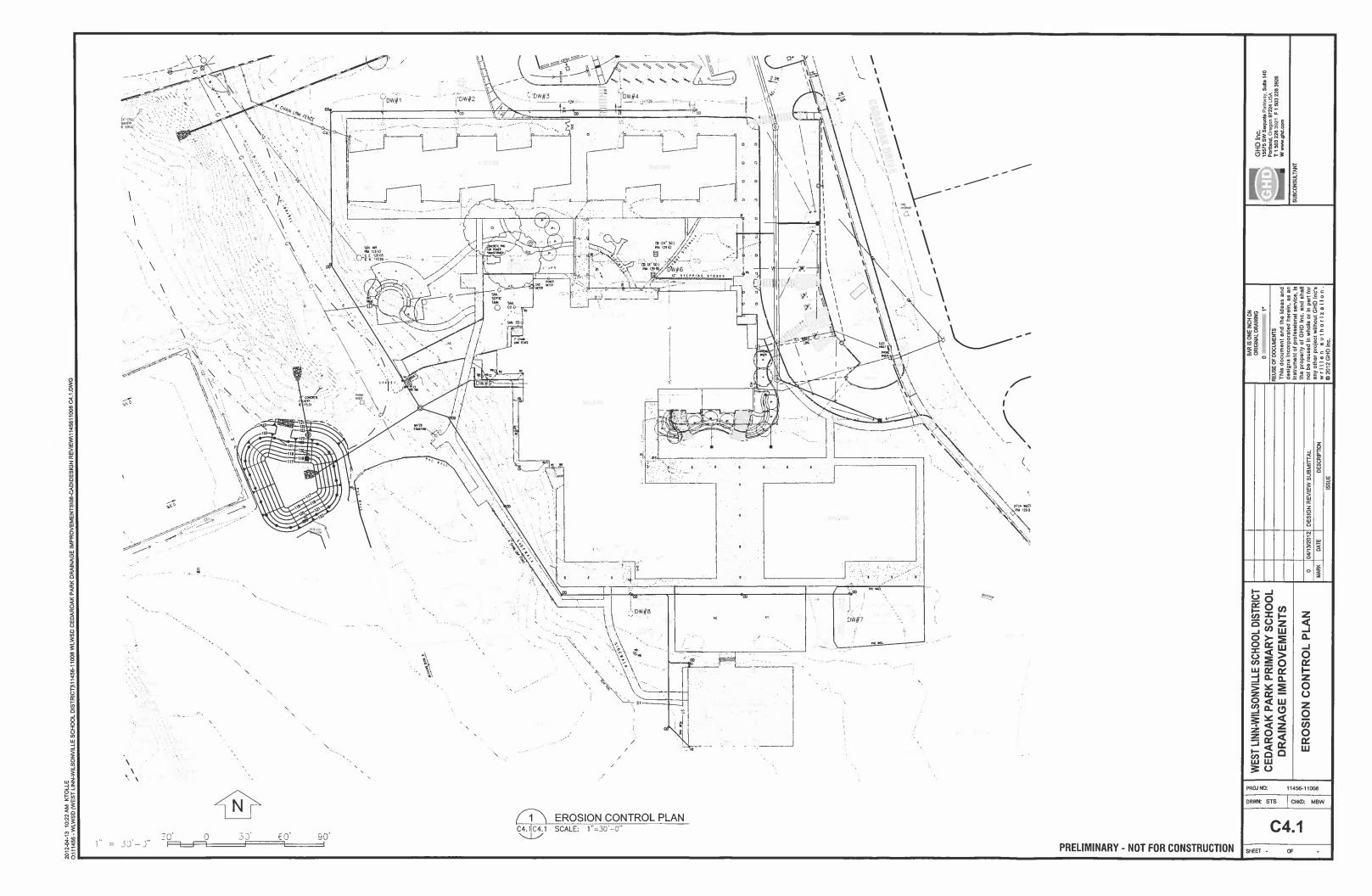


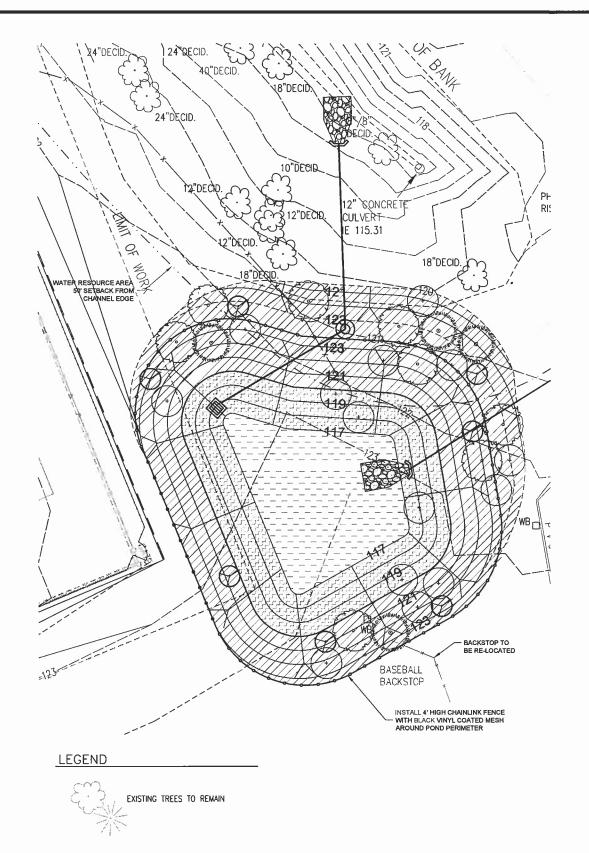












POND PLANT SCHEDULE

SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	SPACING	QUANTITY	COMMENTS	DTL/SHEET
ONE A S	915sf							
		BASIN PLANTINGS			NOTE: 115 (1GA)	_) Plants/100 sf i	MIN. PER (SWAM) @ 915 SF =	1.052
25%		CAREX DENSA	DENSE SEDGE	1 GAL. CONT.	12" O.C.	263		
25%		CAREX OBNUPTA	SLOUGH SEDGE	1 GAL. CONT.	12" O.C.	263		
15%		JUNCUS PATENS 'ELK BLUE'	ELK BLUE RUSH	1 GAL. CONT.	12" O.C.	158		ĺ
35%		SCRIPTUS MICROCARPUS	SMALL FRUITED BULRUSH	1 GAL. CONT.	12" O.C.	368		
						TOTAL 1,052		
ZONE B 4	4.710sf							
$\widehat{}$		TREES	NOTE: 7 TREE/1000 SF MIN. PER (SWMM) @ 4,710					
(\cdot)	ALRU	ALNUS RUBRA	RED ALDER	2 GAL.	AS SHOWN	14		
$\prec \varnothing$	CONU	CORNUS NUTTALII	WESTERN DOGWOOD	2 GAL.	AS SHOWN	7		
• }_	FRLA	FRAXINUS LATIFOLIA	OREGON ASH	1" CAL. B&B	AS SHOWN	8		
(\cdot)	ABGR	ABIES GRANDIS	GRAND FIR	5-6' HT.	AS SHOWN	4		
					1	TOTAL 33	}	
HARRE		LARGE SHRUBS			NOTE: 3 SHR	UBS/100 SF M	IN. PER (SWMM) @ SF	1.435 = 43
	OECE	OEMLERIA CERASIFORMUS	INDIAN PLUM	1 GAL. CONT.	4' O.C.	8	. ,	1
	RISA	RIBES SANGUINEUM	RED FLOWERING CURRENT	1 GAL. CONT.	10' O.C.	20		
	SACE	SAMBUCUS RACEMOSA	RED ELDERBERRY	1 GAL. CONT.	4' O.C.	15		1
						TOTAL 43	İ	
777		MEDIUM SHRUBS			NOTE: 4 SHR	UBS/100 SF M	I In. Per (Swmm) @ 3,2	75 SF = 131
	COSE	CORNUS SERICEA	REDTWIG DOGWOOD	1 GAL, CONT,	4' O.C.	20		
	SPBE	SPIRAEA BETULIFOLIA	BIRCHLEAF SPIREA	1 GAL. CONT.	2' O.C.	25		
	SYAL	SYMPHORICARPOS ALBA	COMMON SNOWBERRY	1 GAL, CONT.	3' O.C.	16		

TUFTED HAIR GRASS

WESTERN SWORD FERN

PLANTING NOTES:

DECE

POMU

GROUNDCOVERS

DESCHAMPSIA CESPITOSA

POLYSTICHUM MUNITUM

- 1. CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES INDICATED TO REMAIN PRIOR TO SOIL PREPARATION. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN. COORDINATE WITH THE OWNER'S REPRESENTATIVE.
- 2. PLANTING AREAS TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE BEFORE BEGINNING ANY LANDSCAPE WORK.
- 3. IDENTIFY ALL PLANTING AREAS IN FIELD WITH WHITE FIELD—MARKING CHALK OR APPROVED EQUAL. PLANTING BEDS TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANT LOCATION
- 4. FOR PLANTING OCCURRING IN MASSES OF SAME SPECIES PLANT, LABELING REFERS TO ALL ADJACENT IDENTICAL SYMBOLS. REFER TO DETAILS AND LEGEND FOR SPACING INFORMATION.
- 5. THE OWNER'S REPRESENTATIVE WILL APPROVE INDIVIDUAL PLANT MATERIAL AND LOCATION OF PLANT MATERIAL PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR PROCEDURE.
- 6. PLANT QUANTITIES INDICATED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANTS IN QUANTITIES AND LOCATIONS SHOWN ON DRAWINGS.
- 7. PROVIDE JUTE NETTING ON ALL SLOPES WITH GRADIENT OF 3:1 OR GREATER AS DIRECTED IN THE FIELD BY THE OWNER'S REPRESENTATIVE. STAPLE FABRIC TO GROUND WITH METAL STAKES AT 4' O.C.

WATER QUALITY PLANTING NOTES

12" O.C.

24' O.C.

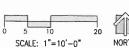
1 GAL. CONT.

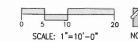
1 GAL, CONT.

1. WATER QUALITY PLANTING TO CONFORM TO CITY OF PORTLAND STORMWATER MANAGEMENT MANUAL (SWMM) REQUIREMENTS FOR INFILTRATION BASIN FACILITIES. MINIMUM CONTAINER SIZE TO BE 1 GALLON AT THE FOLLOWING RATE:

30 TOTAL 131

- a) ZONE (A) (BASIN PLANTING MIX): 115 PLANTS PER 100 SF OF FACILITY AREA.
- b) ZONE (B) (TREES, SHRUBS, AND GROUNDCOVER SEED MIX): 1 TREE AND 3 LARGE SHRUBS AND 4 MEDIUM SHRUBS PER 1 100 SF OF FACILITY AREA.
- 2. SEE PLANTING SCHEDULE FOR SPACING AND QUANTITIES REQUIRED.
- 3. ZONE A: BASIN PLANINGS TO BE PLANTED IN RANDOM NATURALISTIC DRIFTS OF SAME SPECIES PLANTS IN GROUPS OF 15, 25, AND 35 PLANTS.
- 4. ZONE B: TREES TO BE PLANTED IN NATURALISTIC DRIFTS OF SAME SPECIES TREES IN GROUPS OF 3, 5, AND 7 PLANTS IN AREAS AS DRAWN. SRUBS TO BE PLANTED IN RANDOM NATRULISTIC DRIFTS OF SAME SPECIES PLANTS IN GROUPS OF 5, 10, AND 15 PLANTS IN AND AROUND GROUPS OF TREES. ALL OF ZONE B TO BE SEEDED WITH GROUNDCOVER SEED MIX PER PLANTING SCHEDULE.





PRELIMINARY - NOT FOR CONSTRUCTION

PLAN WEST LINN-WILSONVILLE SCHOOL DISTRICT CEDAROAK PARK PRIMARY SCHOOL DRAINAGE IMPROVEMENTS PLANTING POND

ETENTION PROJ NO: 11456-11008

CHKD: DO