

**DRAWING INDEX**

- GENERAL
- T1.0 PROJECT COVER SHEET
- CIVIL
- C1.0 DEMOLITION AND TESC
- C2.0 GRADING, DRAINAGE AND UTILITIES
- C3.0 DPD STANDARD TESC DETAILS
- C3.1 NOTES AND DETAILS
- C3.2 NOTES
- LANDSCAPE
- L1.0 LAYOUT PLAN
- L1.0A ACCESSIBILITY PLAN
- L3.0 ARTWORK AND LANDSCAPE SECTIONS

**SITE MAP**



**SEWARD PARK PLAYGROUND**

5895 LAKE WASHINGTON BLVD. S | SEATTLE, WA 98118

DESIGN DEVELOPMENT  
 JUNE 16 - 2009

**OWNER - BUSINESS MANAGER**

SEATTLE PARKS AND RECREATION  
 100 DEXTER AVENUE N.  
 SEATTLE, WA 98109  
 PAMELA KLIMENT  
 (206) 684-7556  
 Pamela.Kliment@Seattle.gov

**LANDSCAPE ARCHITECT**

JOHNSON/SOUTHERLAND  
 3827 B SOUTH EDMUNDS ST.  
 SEATTLE, WA 98118  
 MAGGI JOHNSON, ASLA  
 (206) 723-8275 X223  
 mjohnson@johnsonsoutherland.com

**PROJECT DESCRIPTION**

REPLACE EXISTING PLAYGROUND WITH NEW PLAY FEATURES, TERRACING, PAVING, PLANTING AND ARTWORK.

**OWNER REPRESENTATIVE / AGENT**

SEWARD PARK PLAYGROUND  
 IMPROVEMENT FOUNDATION  
 SEATTLE, WA 98103  
 BETINA SIMMONS  
 betinasimmons@hotmail.com  
 MAURA WHALEN  
 mikenmaura@mac.com

**CIVIL ENGINEER**

LPD ENGINEERING  
 7936 SEWARD PARK AVE SOUTH  
 SEATTLE, WA 98118  
 LAURIE PFARR  
 (206) 725-1211  
 LaurieP@LPDEngineering.com

**ARTIST**

KRISTIN L. TOLLEFSON  
 4515 EAGLE HARBOR DRIVE  
 BAINBRIDGE ISLAND, WA 98110  
 (206) 842-0253  
 klt@raincity.com

**STRUCTURAL ENGINEER**

ISSUE	DATE
REVISION	TITLE

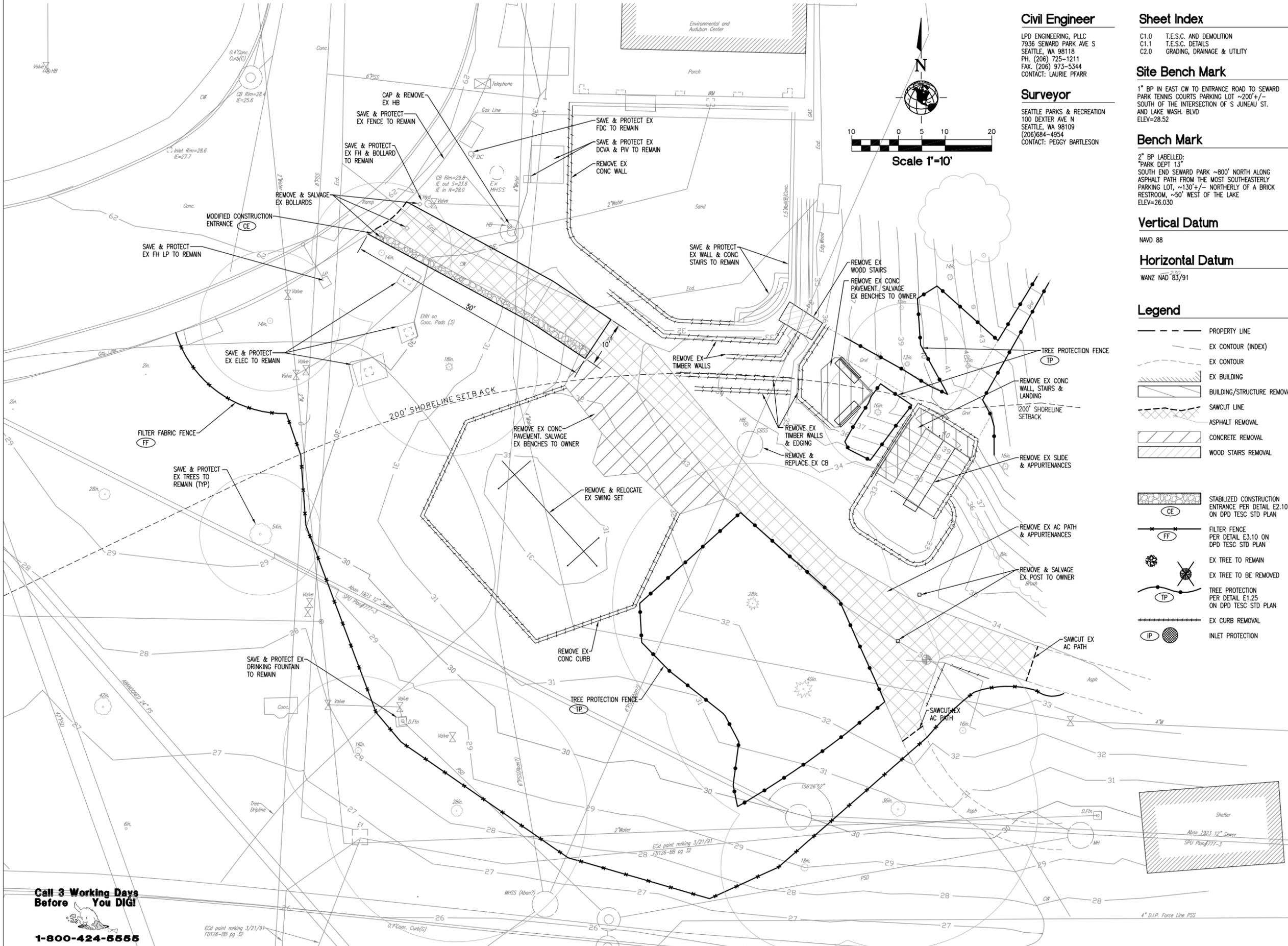
ISSUE DATE:	ISSUE DATE
DRAWN:	BTS, AVF
CHECKED:	MEJ
PROJECT NO.:	NO.

PROJECT COVER SHEET

**T-1.0**

SHEET REVISIONS CHECKED STAMP

# The NE 1/4 of Section 23, Township 24, Range 4



### Civil Engineer

LPD ENGINEERING, PLLC  
7936 SEWARD PARK AVE S  
SEATTLE, WA 98118  
PH. (206) 725-1211  
FAX. (206) 973-5344  
CONTACT: LAURIE PFARR

### Surveyor

SEATTLE PARKS & RECREATION  
100 DEXTER AVE N  
SEATTLE, WA 98109  
(206) 684-4954  
CONTACT: PEGGY BARTLESON

### Sheet Index

C1.0 T.E.S.C. AND DEMOLITION  
C1.1 T.E.S.C. DETAILS  
C2.0 GRADING, DRAINAGE & UTILITY

### Site Bench Mark

1" BP IN EAST CW TO ENTRANCE ROAD TO SEWARD PARK TENNIS COURTS PARKING LOT ~200'+/- SOUTH OF THE INTERSECTION OF S JUNEAU ST. AND LAKE WASH. BLVD  
ELEV=28.52

### Bench Mark

2" BP LABELLED: "PARK DEPT 13" SOUTH END SEWARD PARK ~800' NORTH ALONG ASPHALT PATH FROM THE MOST SOUTHEASTERLY PARKING LOT, ~130'+/- NORTHERLY OF A BRICK RESTROOM, ~50' WEST OF THE LAKE  
ELEV=26.030

### Vertical Datum

NAVD 88

### Horizontal Datum

WANZ NAD 83/91

### Legend

- PROPERTY LINE
- - - EX CONTOUR (INDEX)
- - - EX CONTOUR
- ▨ EX BUILDING
- ▨ BUILDING/STRUCTURE REMOVAL
- - - SAWCUT LINE
- ▨ ASPHALT REMOVAL
- ▨ CONCRETE REMOVAL
- ▨ WOOD STAIRS REMOVAL
- ▨ STABILIZED CONSTRUCTION ENTRANCE PER DETAIL E2.10 ON DPD TESC STD PLAN
- FF FILTER FENCE PER DETAIL E3.10 ON DPD TESC STD PLAN
- EX TREE TO REMAIN
- EX TREE TO BE REMOVED
- TP TREE PROTECTION PER DETAIL E1.25 ON DPD TESC STD PLAN
- EX CURB REMOVAL
- IP INLET PROTECTION

**JOHNSON SOUTHERLAND**  
3827B South Edmunds St. Seattle, WA 98118  
Ph. 206-723-8275 Fax 206-723-0392

**LPD engineering pllc**  
7936 Seward Park Ave S, Seattle, WA 98118  
p. 206.725.1211 f. 206.973.5344  
www.lpdengineering.com

## SEWARD PARK PLAYGROUND

5895 LAKE WASHINGTON BLVD, S | SEATTLE, WA 98118

DESIGN DEVELOPMENT  
JUNE 16 - 2009



ISSUE	DATE

ISSUE DATE: \_\_\_\_\_ ISSUE DATE: \_\_\_\_\_  
DRAWN: \_\_\_\_\_ DMB  
CHECKED: \_\_\_\_\_ LJP  
PROJECT NO.: \_\_\_\_\_ NO.

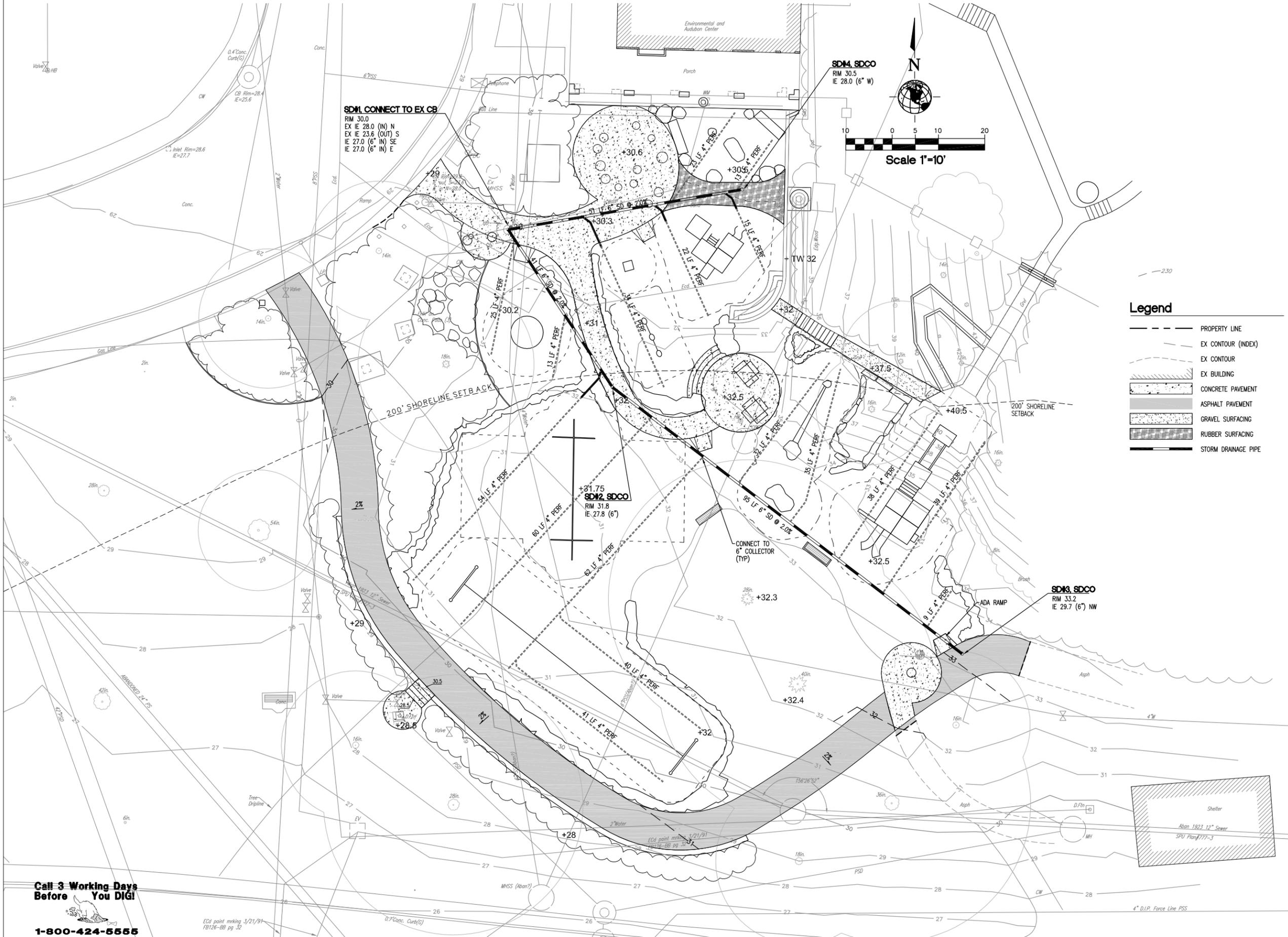
## DEMOLITION & TESC

# C1.0

Call 3 Working Days Before You Dig!

1-800-424-6555

The NE 1/4 of Section 23, Township 24, Range 4



**Legend**

- PROPERTY LINE
- - - EX CONTOUR (INDEX)
- - - EX CONTOUR
- - - EX BUILDING
- [Pattern] CONCRETE PAVEMENT
- [Pattern] ASPHALT PAVEMENT
- [Pattern] GRAVEL SURFACING
- [Pattern] RUBBER SURFACING
- [Symbol] STORM DRAINAGE PIPE

**JOHNSON SOUTHERLAND**  
 3827B South Edmunds St. Seattle, WA 98118  
 Ph. 206-723-8275 Fax 206-723-0392

**IPD engineering plc**  
 7936 Seward Park Ave S, Seattle, WA 98118  
 p. 206.725.1211 f. 206.973.5344  
 www.ipdengineering.com

**SEWARD PARK PLAYGROUND**

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**DESIGN DEVELOPMENT**  
 JUNE 16 - 2009



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ISSUE DATE: \_\_\_\_\_ ISSUE DATE: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_ DMB  
 CHECKED: \_\_\_\_\_ LJP  
 PROJECT NO.: \_\_\_\_\_ NO.

**GRADING & DRAINAGE**

**C2.0**

24x36 File: SFP\_GRAD.dwg Plotted by: dlanab Date: 16-Jun-09 11:54:26am

**Call 3 Working Days Before You Dig!**  
 1-800-424-6555

ECd point marking 3/21/91  
 FBI26-BB pg 32

SECTION I – BACKGROUND INFORMATION

**A. Purpose**  
A Temporary Erosion and Sediment Control Plan consists of temporary and permanent controls to be used during construction to prevent erosion or transport of sediment or other pollutants from the site. The most common methods are shown on this plan; other methods may be required if necessary.

**B. Scope**  
All land-disturbing activities are required to control erosion. DPD reviews and approves erosion control for DPD permit applications with more than 750 square feet of land disturbance. This standardized Temporary Erosion and Sediment Control Plan was developed to assist the small project permit applicant design his or her erosion control plan.

**C. Definitions**  
**BEST MANAGEMENT PRACTICE (BMP)** – Means a physical, structural, or managerial practice or device that prevents, reduces, or treats contamination of water or which prevents or reduces soil erosion.  
**1. NON-STRUCTURAL OR OPERATIONAL BEST MANAGEMENT PRACTICES** are those pollution control strategies that require modified or additional behavioral practices, such as sweeping a parking lot, or maintaining special equipment on site such as spill response equipment. **2. STRUCTURAL BEST MANAGEMENT PRACTICES** are those pollution control strategies that require the construction of a structural or other physical modification on the site.

**GRADING** – Means excavation, fill, in-place ground modification, or any combination thereof, including the establishment of a grade following demolition of a structure.

**LAND-DISTURBING ACTIVITY** – Means any activity that results in a movement of earth, or a change in the existing soil cover (both vegetative and nonvegetative) or the existing topography. Land-disturbing activities include, but are not limited to, clearing, grading, filling, excavation, or addition or replacement of impervious surface.

**SIDE SEWER** – is defined in the Side Sewer Ordinance, Seattle Municipal Code Section 21.16.030.

**SMALL PROJECT** – Means project with less than 5,000 square feet of new or replaced impervious surface or less than one acre of land disturbing activity.

**WATERCOURSE** – Means the route, constructed or formed by humans or by natural processes, generally consisting of a channel with beds, banks or sides, in which surface water flows. Watercourse includes small lakes, bogs, streams, creeks, and intermittent artificial components (including ditches and culverts) but does not include receiving waters.

**Responsible Party** – Means all of the following persons:  
1. Owners and occupants of property within the City of Seattle.  
2. Any person causing or contributing to a violation of the provisions of this subtitle.

SECTION II – INSTRUCTIONS FOR USE OF THIS PLAN

**A. General Plan Information**

Section IIIB has been provided for the applicant to draw the project Temporary Erosion and Sediment Control Plan. The applicant may also draw stormwater control details on the permit application plan set site plan in lieu of completing Section IIIB.

1. Designate north arrow, pick the scale the plan will be drawn to, label the address and street name fronting structure and draw property lines.

2. Show and identify all existing and proposed structures on the site.

3. Locate and size all streams, swales, and drainage channels on or within 25-feet of the site that may involve or affect the drainage of the site to be developed. Indicate all existing stormwater and sanitary sewer pipes.

4. Indicate the direction and location of surface water runoff entering and exiting the site from all adjacent property. This may be done with topographic contour lines or directional arrows.

5. Indicate what types of systems will be used to convey runoff away from the proposed structures.

6. Show all minimum stormwater controls to be used during construction and to permanently stabilize the site. See Requirements, below.

**B. Requirements**

Some or all of the following erosion control methods will be required, depending upon the nature and scope of project. Identify items that may be a problem during construction, and choose BMPs that will mitigate construction impacts.

Complete construction stormwater control details and requirements may be found in the "Construction Stormwater Control Technical Requirements Manual", Volume 2 of the City of Seattle Stormwater, Grading, and Drainage Control Code (SMC 22.800).

1. From October 1 to April 30, no soil shall remain unstabilized for more than 2 days. From May 1 to September 30, no soils shall remain unstabilized for more than 7 days. Stabilize all soils, including stockpiles that are temporarily exposed. Use one of the following to temporarily stabilize soils, including stockpiles: E1.10 Temporary Seeding & Mulching, E1.15 Matting/Rolled Erosion Control Products, E1.20 Plastic Covering or E2.20 Dust Control.

2. After construction but before project is considered completed, permanently stabilize all exposed soils that have been disturbed during construction. Use one of the following to permanently stabilize soils: E1.35 Permanent Seeding or Planting, E1.40 Sodding.

3. Use one of the following to prevent the transport of sediment from the site: E3.10 Filter fence, E3.15 Straw bale barrier, E3.20 Brush barrier, E3.25 Gravel filter berm, E3.40 Sediment pond or E3.35 Sediment trap. Sandbags may also be utilized to prevent sediment from being discharged offsite. Retaining natural vegetation and buffer zones are encouraged, but may not be used as a substitute.

4. Prevent sediment from entering all storm drains, including ditches that receive runoff from the disturbed area, by installing storm drain inlet inserts, using sandbags and vacuuming sediment from impervious surfaces.

5. During construction, prevent the introduction of pollutants in addition to sediment into stormwater. Comply with the requirements for each of the following construction related activities: C1.10 Pesticide control, C1.20 Handling petroleum products, C1.30 Nutrient application, C1.40 Solid waste handling/disposal or C1.50 Use of chemicals during construction.

6. Limit construction vehicle access, whenever possible, to one location. Stabilize all access points. Provide periodic street cleaning by sweeping or shoveling any sediment that may have been tracked out. Place sediment in a suitable disposal area where it will not erode again. E2.10 Construction Access or E2.15 Construction Road Stabilization.

7. Inspect and maintain required erosion controls to ensure continued performance of their intended function.

8. Street use permit shall be obtained from SDOT for temporary drainage discharge, sidewalk closure and/or material storage in street and/or alley right-of-way.

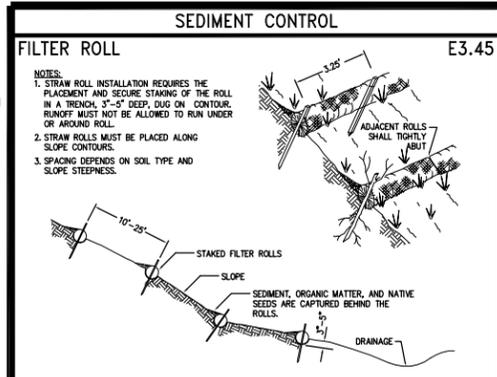
SECTION III – MATERIALS AT JOB SITE

1. Construction erosion control measures must be in place and approved by DPD before any earth disturbance. Call (206) 684-8860 to schedule an inspection for this item.

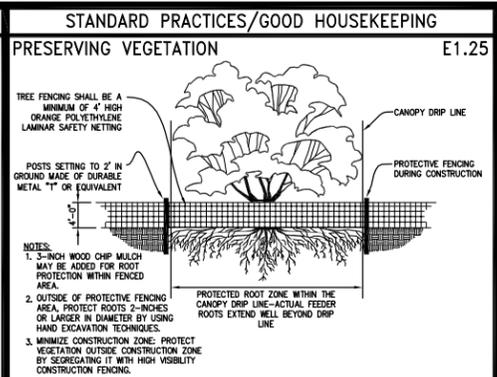
2. No sediment shall be tracked onto paved streets or roadways. Sediment shall be removed from trucks and equipment before leaving the construction site. In the event of failure of the TESC system resulting in sediment tracking onto pavement, the contractor shall implement measures immediately to correct the situation.

3. The contractor shall employ emergency measures to remove sediment from paved surfaces, as needed. Street sweeping shall be considered an emergency measure and not a basic component of the TESC system. Sediment tracked onto paved surfaces shall not be washed into storm drains or other utility inlets.

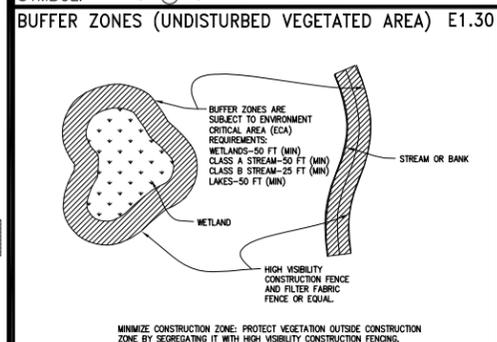
STANDARD DETAILS



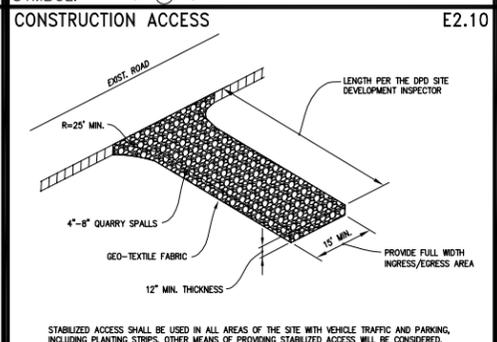
**REASON:** TO INTERCEPT & RETAIN SMALL AMOUNTS OF SEDIMENT AND DECREASE THE VELOCITY OF SHEET FLOW.  
**SYMBOL:** [Symbol]



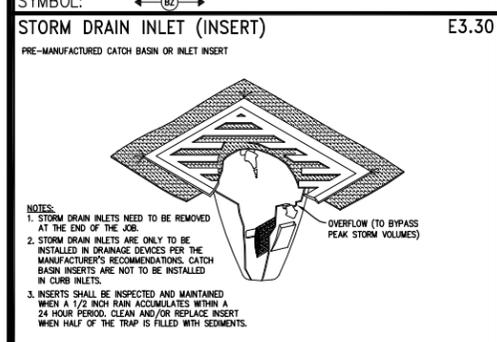
**REASON:** TO REDUCE EROSION BY PRESERVING NATURAL VEGETATION WHEREVER PRACTICABLE.  
**SYMBOL:** [Symbol]



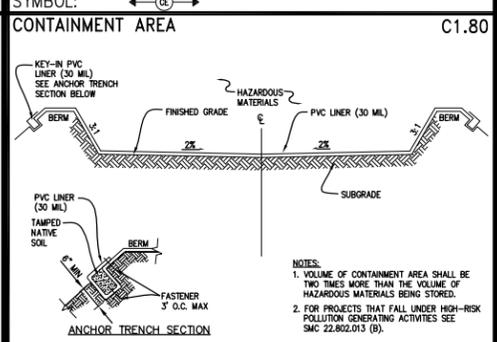
**REASON:** AN UNDISTURBED AREA OR STRIP OF NATURAL VEGETATION OR AN ESTABLISHED SUITABLE PLANTING ZONE BY SEGREGATING IT WITH HIGH VISIBILITY CONSTRUCTION FENCING.  
**SYMBOL:** [Symbol]



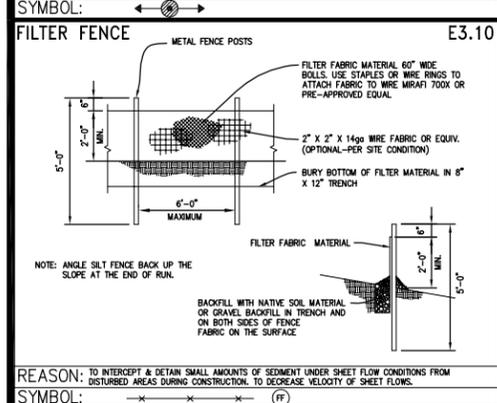
**REASON:** TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.  
**SYMBOL:** [Symbol]



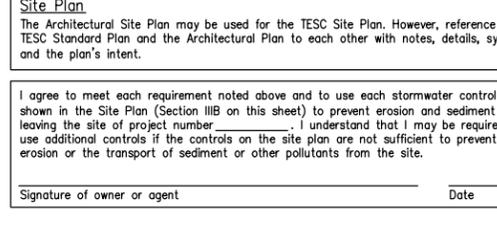
**REASON:** TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.  
**SYMBOL:** [Symbol]



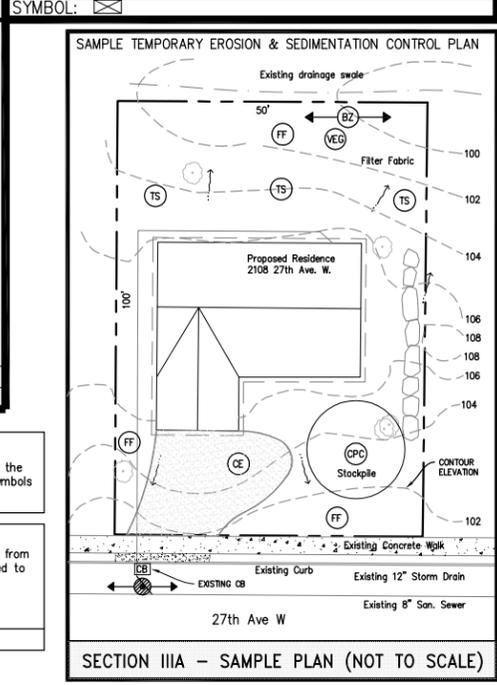
**REASON:** TO CONTAIN HAZARDOUS MATERIALS AND PREVENT CONTAMINATING THE SOIL.  
**SYMBOL:** [Symbol]



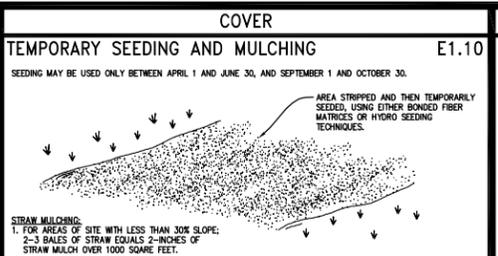
**REASON:** TO INTERCEPT & RETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION. TO DECREASE VELOCITY OF SHEET FLOWS.  
**SYMBOL:** [Symbol]



**Site Plan**  
The Architectural Site Plan may be used for the TESC Site Plan. However, reference the TESC Standard Plan and the Architectural Plan to each other with notes, details, symbols and the plan's intent.  
I agree to meet each requirement noted above and to use each stormwater control shown in the Site Plan (Section IIIB on this sheet) to prevent erosion and sediment from leaving the site of project number [blank]. I understand that I may be required to use additional controls if the controls on the site plan are not sufficient to prevent erosion or the transport of sediment or other pollutants from the site.  
Signature of owner or agent \_\_\_\_\_ Date \_\_\_\_\_

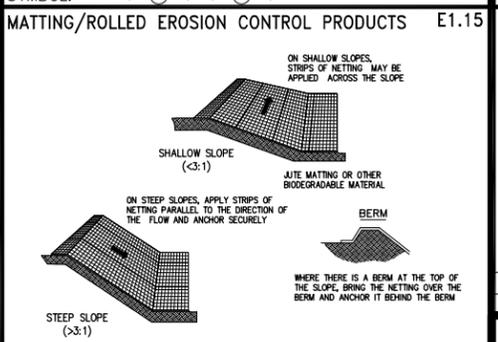


**SECTION IIIA – SAMPLE PLAN (NOT TO SCALE)**

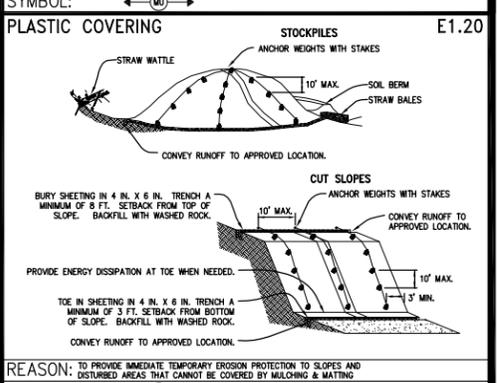


NAME	PROPORTIONS BY WEIGHT	% PURITY	% GERMINATION
REDTOP (AGROSTIS ALBA)	10%	92	90
ANNUAL RYE (LOLIUM MULTIFLORUM)	40%	98	90
CHEWINGS FESCUE (FETUCA RUBRA COMMUTATA)	40%	97	80
WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	40%	96	80

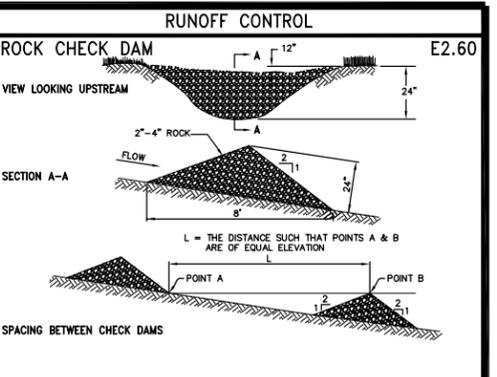
**REASON:** TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 7 DAYS WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE.  
**SYMBOL:** [Symbol]



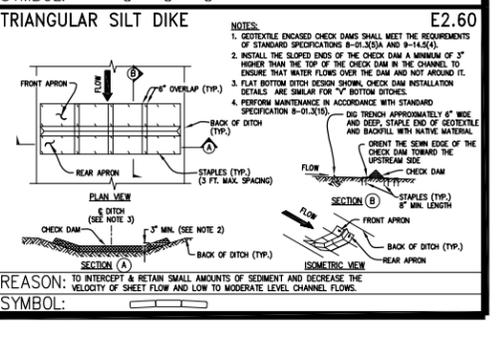
**REASON:** TO PROVIDE IMMEDIATE PROTECTION TO EXPOSED SOILS DURING THE PERIOD OF SHORT CONSTRUCTION DELAYS.  
**SYMBOL:** [Symbol]



**REASON:** TO PROVIDE IMMEDIATE TEMPORARY EROSION PROTECTION TO SLOPES AND DISTURBED AREAS THAT CANNOT BE COVERED BY MULCHING & MATTING.  
**SYMBOL:** [Symbol]



**REASON:** TO INTERCEPT & RETAIN SMALL AMOUNTS OF SEDIMENT AND DECREASE THE VELOCITY OF SHEET FLOW AND LOW TO MODERATE LEVEL CHANNEL FLOWS.  
**SYMBOL:** [Symbol]



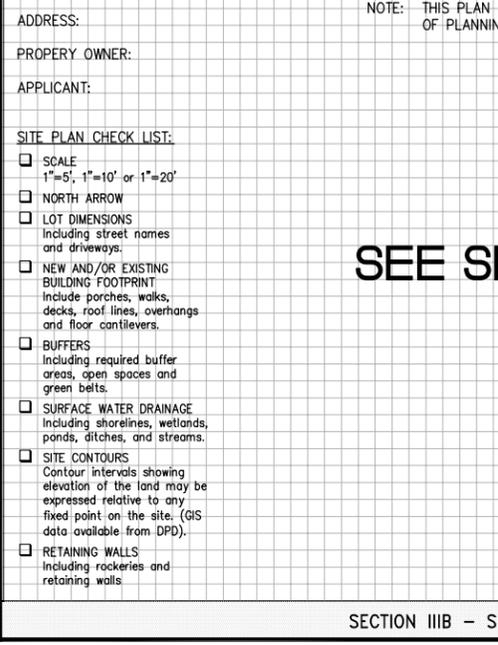
**REASON:** TO INTERCEPT & RETAIN SMALL AMOUNTS OF SEDIMENT AND DECREASE THE VELOCITY OF SHEET FLOW AND LOW TO MODERATE LEVEL CHANNEL FLOWS.  
**SYMBOL:** [Symbol]

**Construction Stormwater Control Inspection Fees**  
Each project is charged a fee at the time of permit issuance to cover one or more construction erosion control inspections, depending on the size of the project. Each construction erosion control inspection thereafter is charged at \$150 per hour; the number of inspections is determined by Department of Planning and Development site inspector according to the effectiveness of the project's construction erosion control measures.

**Temporary Dewatering**  
If a project requires temporary dewatering, please see Client Assistance Memo (CAM) #506 and Director's Rule 3-2004 for more information.

The Project's TESC Plan Sheet must be located onsite during the duration of project's construction. The project's TESC Plan sheet must reflect all TESC changes made onsite during construction and those plan revisions must be initiated and dated by the project's certified TESC representative.

Rev. #	Date	By	Appr.	Revisions
1	06/10/04	RLJ	KKW	UPDATE TESC STANDARD PLAN



**SECTION IIIB – SITE PLAN**



**SECTION IIIB – SITE PLAN**

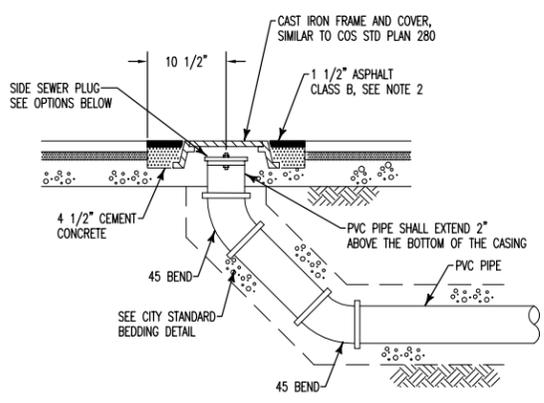
TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) STANDARD PLAN  
(AKA Small Project Construction Stormwater Control Prescriptive Plansheet)  
For Small Projects, see Seattle Municipal Code 22.802.020  
Applicant Plan Sheet

CITY OF SEATTLE  
DEPARTMENT OF PLANNING AND DEVELOPMENT  
PERMIT  
SHEET  
C 3.0  
STANDARD PLAN  
DESIGNED BY: K. AMINIYAN, P.E. / RICK JOHNSON

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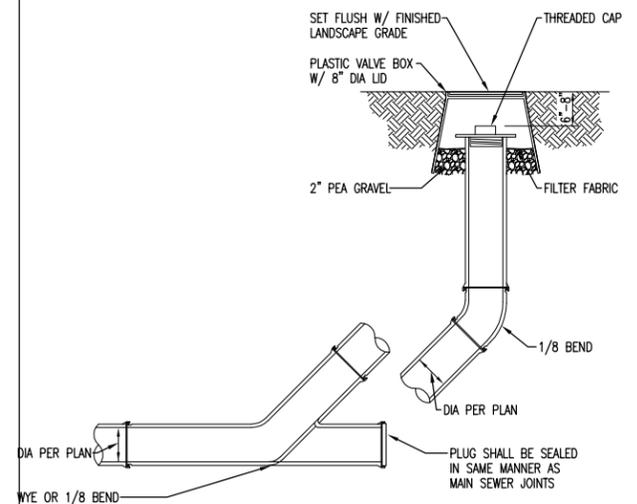
NTS  
Not Used 1

NTS  
Not Used 2



- NOTES:
1. SAWCUT SHALL BE SEALED AT THE TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
  2. ALL MATERIAL SHALL CONFORM TO THE 1991 COS STANDARD SPECIFICATIONS FOR ROAD.
  3. MACHINE BEARING FACES OF FRAME AND COVER TO INSURE POSITIVE FIT.

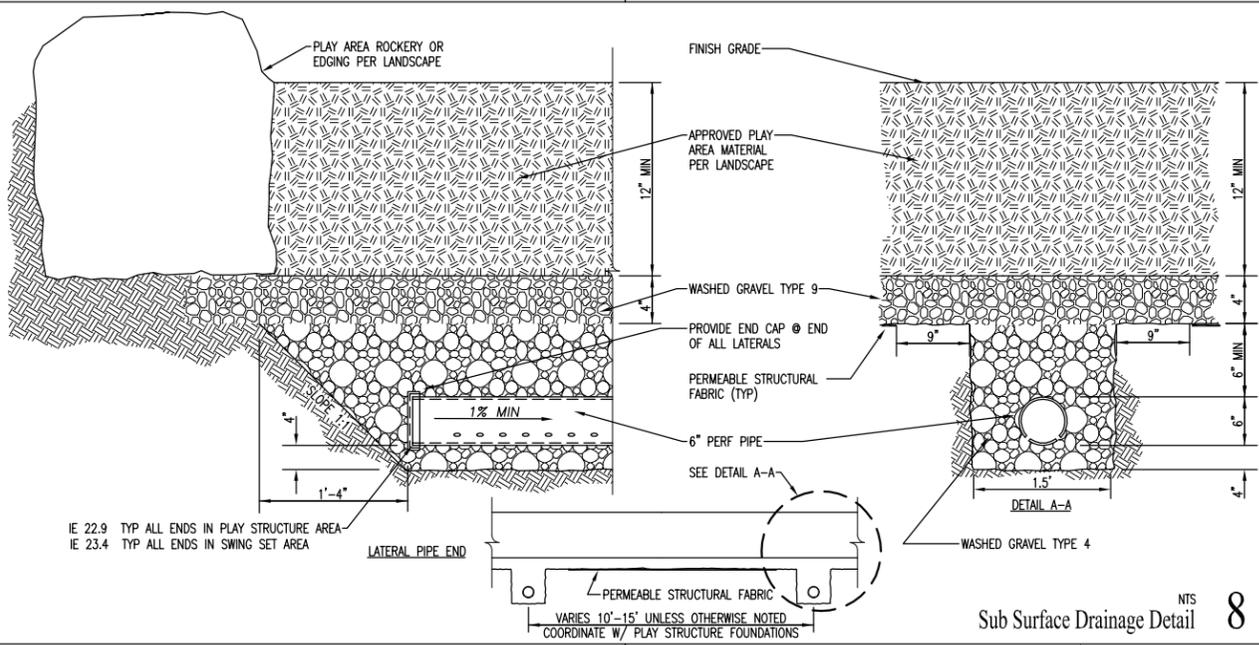
NTS  
Cleanout in Paved Areas 3



NTS  
Cleanout in Unpaved Areas w/ Irrigation Box 4

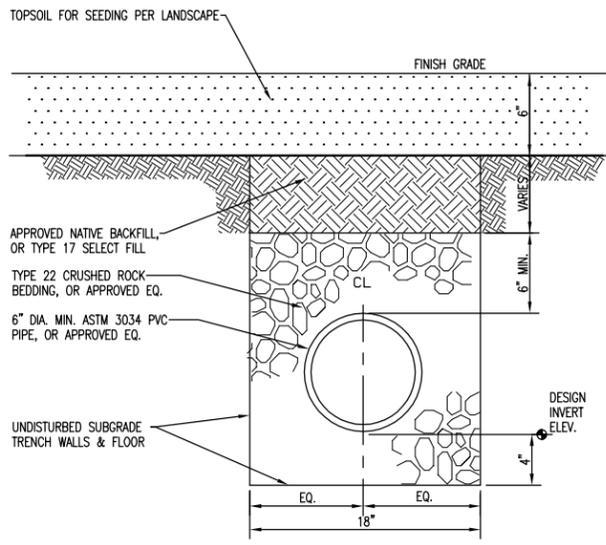
NTS  
Not Used 5

NTS  
Not Used 6

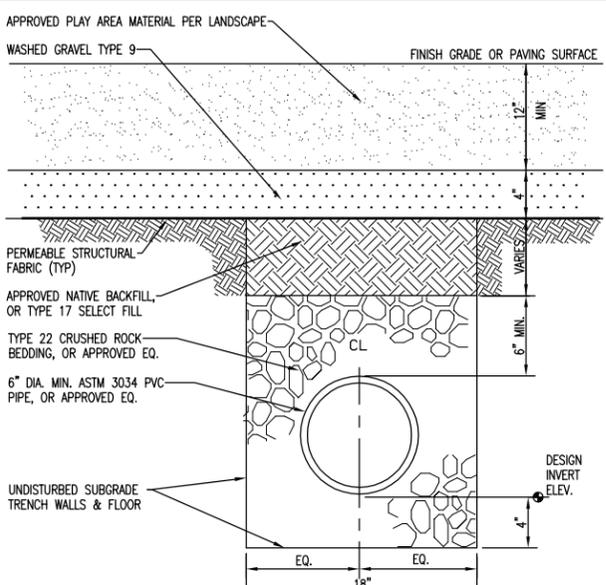


NTS  
Sub Surface Drainage Detail 8

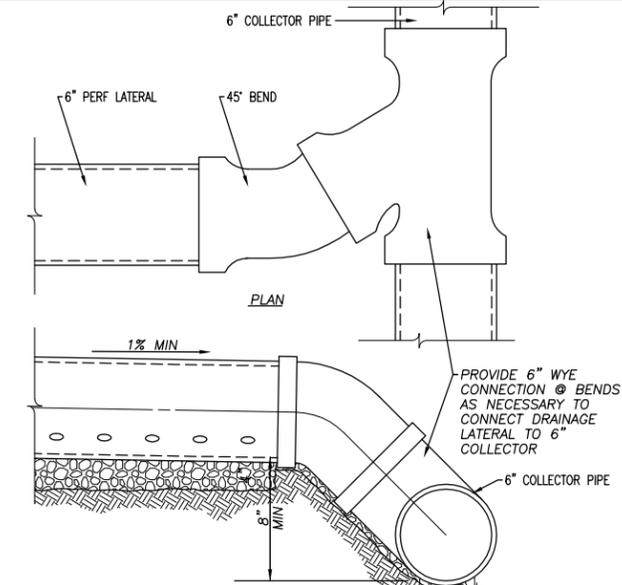
NTS  
Not Used 9



NTS  
Typical Solid Pipe Storm Drainage Trench Detail 10



NTS  
Play Area Solid Pipe Storm Drainage Trench Detail 11



NTS  
Sub Surface Drainage Connection Detail 12

**JOHNSON SOUTHERLAND**  
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 Seattle, WA 98118 Fax 206-723-0392

**IPD** engineering plc  
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 www.ipdengineering.com

**SEWARD PARK PLAYGROUND**

5885 LAKE WASHINGTON BLVD, S | SEATTLE, WA 98118

**DESIGN DEVELOPMENT**  
**JUNE 16 - 2009**



ISSUE	DATE

ISSUE DATE: _____	ISSUE DATE: _____
DRAWN: _____	DMB
CHECKED: _____	LJP
PROJECT NO.: _____	NO.

Details  
**C3.1**

**General Notes**

1. ALL WORK SHALL CONFORM TO: THE CURRENT EDITION OF CITY OF SEATTLE STANDARD SPECIFICATIONS; THE CURRENT EDITION OF THE CITY OF SEATTLE STANDARD PLANS; AND SEATTLE DEPARTMENT OF TRANSPORTATION, DIRECTOR'S RULE FOR STREET AND SIDEWALK PAVEMENT OPENING AND RESTORATION. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
3. A COPY OF THE APPROVED PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.
5. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF SEATTLE. THE CONTRACTOR SHALL NOTIFY THE OWNER'S PROFESSIONAL ENGINEERING CONSULTANT OF THE PRECONSTRUCTION MEETING TIME AND LOCATION.
6. PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, AND CURBS THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED AS REQUIRED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION, STREET USE INSPECTOR.
7. DATUM: NAVD 88 AND NAD83 (1991). REFER TO THE SURVEY WEBSITE FOR DETAILS.
8. ALL SURVEYING AND STAKING OF IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY IS TO BE PROVIDED BY THE CITY OF SEATTLE AT OWNER'S EXPENSE.
9. THE CONTRACTOR SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (206-386-1495) TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
10. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
11. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
12. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
13. UTILITY SERVICE CONNECTIONS SHOWN ON THIS PLAN ARE TO BE MAINTAINED PRIVATELY AND NOT BY THE CITY OF SEATTLE.
14. THE CONTRACTOR SHALL PROVIDE FOR ALL COMPACTION TESTS REQUIRED BY THE STREET USE INSPECTOR.
15. BACKFILL MATERIAL USED IN PUBLIC RIGHT-OF-WAY SHALL MEET STANDARD SPECIFICATIONS AND SHALL BE APPROVED BY SEATTLE DEPARTMENT OF TRANSPORTATION.
16. INSPECTION AND ACCEPTANCE OF ALL WORK IN STREET RIGHTS-OF-WAY WILL BE ACCOMPLISHED BY REPRESENTATIVES OF THE CITY OF SEATTLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE APPROPRIATE INSPECTIONS, ALLOWING PROPER ADVANCE NOTICE. THE INSPECTOR MAY REQUIRE RECONSTRUCTION OF ITEMS THAT DO NOT MEET CITY STANDARDS OR THAT WERE CONSTRUCTED WITHOUT INSPECTION.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM. AS CONSTRUCTION PROGRESSES AND UNEXPECTED (SEASONAL) CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED TO INSURE COMPLETE SILTATION CONTROL OF THE PROJECT. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
18. THE CONTRACTOR SHALL KEEP OFF-SITE STREETS CLEAN AT ALL TIMES BY SWEEPING. WASHING OF THESE STREETS WILL NOT BE ALLOWED WITHOUT PRIOR SEATTLE DEPARTMENT OF TRANSPORTATION APPROVAL.
19. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL. A TRAFFIC CONTROL PLAN WILL BE REQUIRED PRIOR TO ISSUANCE OF PERMIT.
20. COORDINATE SIGN AND METER HEAD REMOVAL AND INSTALLATION WITH SEATTLE DEPARTMENT OF TRANSPORTATION AT 684-5370. SIGNPOSTS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD PLAN NO.'S 620, 622, 624, & 625.
21. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SEATTLE PUBLIC UTILITIES, AND OTHER PUBLIC UTILITIES TO REMOVE OR RELOCATE EXISTING UTILITIES SHALL BE DONE AT THE PERMITTEE'S EXPENSE.
22. CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS.
23. CONTRACTOR SHALL NOTIFY KING COUNTY METRO AT 684-2732 SEVEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS.

NTS  
General Notes **1**

**General Storm Drainage Notes**

1. ALL LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHOWN ON THE PLANS HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF PROPOSED IMPROVEMENTS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL CONNECTIONS TO EXISTING SYSTEMS PRIOR TO CONSTRUCTION.
3. A SEPARATE SEWER/DRAINAGE SIDE SEWER PERMIT FROM THE DEPARTMENT OF PLANNING AND DEVELOPMENT (DPD) IS REQUIRED. AT THE TIME OF APPLYING FOR THIS PROJECT'S SIDE SEWER PERMIT, THE APPROVED DPD PLAN COVER SHEET AND DRAINAGE CONTROL PLAN SET MUST BE PRESENTED WITH THE PERMIT APPLICATION.
4. THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED DRAINAGE CONTROL PLAN ON FILE WITH DPD AND IN THE APPROVED BUILDING PERMIT PLAN SET. ANY DEVIATION FROM THE APPROVED PLANS MAY REQUIRE WRITTEN APPROVAL FROM DPD.
5. A COPY OF THE APPROVED DRAINAGE CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. ALL REQUIRED STORMWATER FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACING UNLESS OTHERWISE APPROVED BY DPD.
7. PIPE USE FOR STORM DRAINS SHALL BE ONE OR MORE OF THE FOLLOWING:
  - A. PVC – ASTM D3034 SDR 35 WITH RESTRAINED GASKETED JOINTS. PVC PIPE FOR PSS AND PSD SHALL BE TESTED FOR EXCESSIVE DEFLECTION WITH A MANDREL PER SECTION 7-17.3(4) OF THE SPECIFICATIONS.
  - B. CONC – ASTM C-14 CL3 FOR PIPE LESS THAN 12 INCHES IN DIAMETER.
  - C. CONC – ASTM C-76 CL IV FOR PIPE 12 INCHES AND 15 INCHES IN DIAMETER
  - D. HDPE – DOUBLE WALLED SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE PIPE. PIPE SHALL BE HANCOR HI-Q OR APPROVED EQUAL AND SHALL MEET THE REQUIREMENTS OF AASHTO M252 TYPE S FOR PIPE 8" IN DIAMETER OR LESS, AND AASHTO M294 FOR PIPE 12 INCHES IN DIAMETER OR GREATER. FITTINGS AND COUPLINGS FOR PIPE 8-INCHES IN DIAMETER OR GREATER SHALL BE SILT TIGHT.
  - E. DUCTILE IRON – ANSI A 21.51, CEMENT MORTAR LINED PUSH ON OR MECHANICAL JOINTS, CLASS 50 OR BETTER. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO THE REQUIREMENTS OF ANSI A 21.11 OR APWA C 111.
8. BEDDING SHALL BE CLASS B FOR ALL PIPES EXCEPT DUCTILE IRON PIPE, WHICH SHALL BE CLASS D. BEDDING MATERIAL FOR PVC PIPE AND CMP SHALL BE MINERAL AGGREGATE TYPE 22. BEDDING MATERIAL FOR PVC PIPE AND CMP SHALL BE MECHANICALLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS MEASURED BY ASTM D-698.
9. GRAVEL FOR TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF SEATTLE SPECIFICATIONS TYPE 17.
10. TEES ON NEW PIPE LESS THAN 24" DIAMETER SHALL BE PREFABRICATED. TEES ON EXISTING PIPE OR ON NEW PIPE WITHOUT PREFABRICATED TEES SHALL BE CONNECTED BY CORE DRILLING AND FLEXIBLE CONNECTION. SEE CITY OF SEATTLE STANDARD SPECIFICATIONS.
11. TEES, CATCH BASIN CONNECTIONS, SIDE SEWERS, AND SERVICE DRAINS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 50%. INLET CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50%.
12. RECONNECTION OF EXISTING CATCH BASINS SHALL INCLUDE NEW TRAPS, CONNECTION TO STORM DRAINS, AND REMOVAL OF EXISTING TRAPS.
13. WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6 INCHES OR LESS, PROVIDE POLYETHYLENE PLASTIC FOAM AS A CUSHION BETWEEN UTILITIES.
14. PIPE INSTALLATIONS SHALL BE IN ACCORDANCE WITH WSDOT/APWA SPECIFICATIONS 7-08.
15. STORM DRAINAGE STRUCTURES WILL BE IN ACCORDANCE WITH CITY OF SEATTLE AND/OR WSDOT SPECIFICATIONS AND DETAILS.
16. THE FOOTING DRAINAGE SYSTEM/FOUNDATION DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED UNLESS SUCH CONNECTION IS AT LEAST 1 FOOT BELOW THE FOOTING DRAINAGE SYSTEM/FOUNDATION DRAINAGE SYSTEM AND DOWN SLOPE OF THE BUILDING FOUNDATION.
17. SERVICE DRAINS AND SIDE SEWERS SHALL NOT BE BACKFILLED UNTIL THE PIPE HAS BEEN INSPECTED AND APPROVED AND THE LOCATION AND DEPTH IS RECORDED BY THE INSPECTOR
18. PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE SEDIMENT OR OTHER HAZARDOUS MATERIAL DO NOT ENTER THE STORM DRAINAGE SYSTEM.
19. PIPE TO BE ABANDONED SHALL BE FILLED WITH PORTLAND CEMENT AND SAND MIXTURE IN ACCORDANCE WITH THE CITY OF SEATTLE SPECIFICATIONS.
20. THE CONTRACTOR SHALL PROVIDE SUPPORTS FOR POWER POLES NEAR EXCAVATIONS PER SEATTLE CITY LIGHT STANDARDS NO. D3-6.
21. PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF STORM DRAINAGE WORK, PIPES AND STORM DRAIN STRUCTURES SHALL BE CLEANED AND FLUSHED. ANY OBSTRUCTIONS TO FLOW WITHIN THE STORM DRAIN SYSTEM, (SUCH AS RUBBLE, MORTAR AND WEDGED DEBRIS), SHALL BE REMOVED AT THE NEAREST STRUCTURE. WASH WATER OF ANY SORT SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM OR SURFACE WATERS.
22. CONTRACTOR SHALL OBTAIN ALL PERMITS FOR WORK WITHIN THE PUBLIC RIGHT OF WAY. THE CITY WILL INSPECT AND ACCEPT ALL WORK WITHIN THE PUBLIC RIGHT OF WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE AND COORDINATE THE APPROPRIATE INSPECTIONS, ALLOWING THE PROPER ADVANCE NOTICE. THE INSPECTOR MAY REQUIRE RECONSTRUCTION OF ITEMS THAT DO NOT MEET THE CITY'S STANDARDS OR THAT WERE CONSTRUCTED WITHOUT INSPECTION.

NTS  
General Storm Drainage Notes **2**

NTS  
Not Used **3**

NTS  
Not Used **4**

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**SEWARD PARK PLAYGROUND**

5895 LAKE WASHINGTON BLVD, S | SEATTLE, WA 98118

**DESIGN DEVELOPMENT**  
**JUNE 16 - 2009**

STAMP REVISIONS CHECKED SHEET



ISSUE	DATE

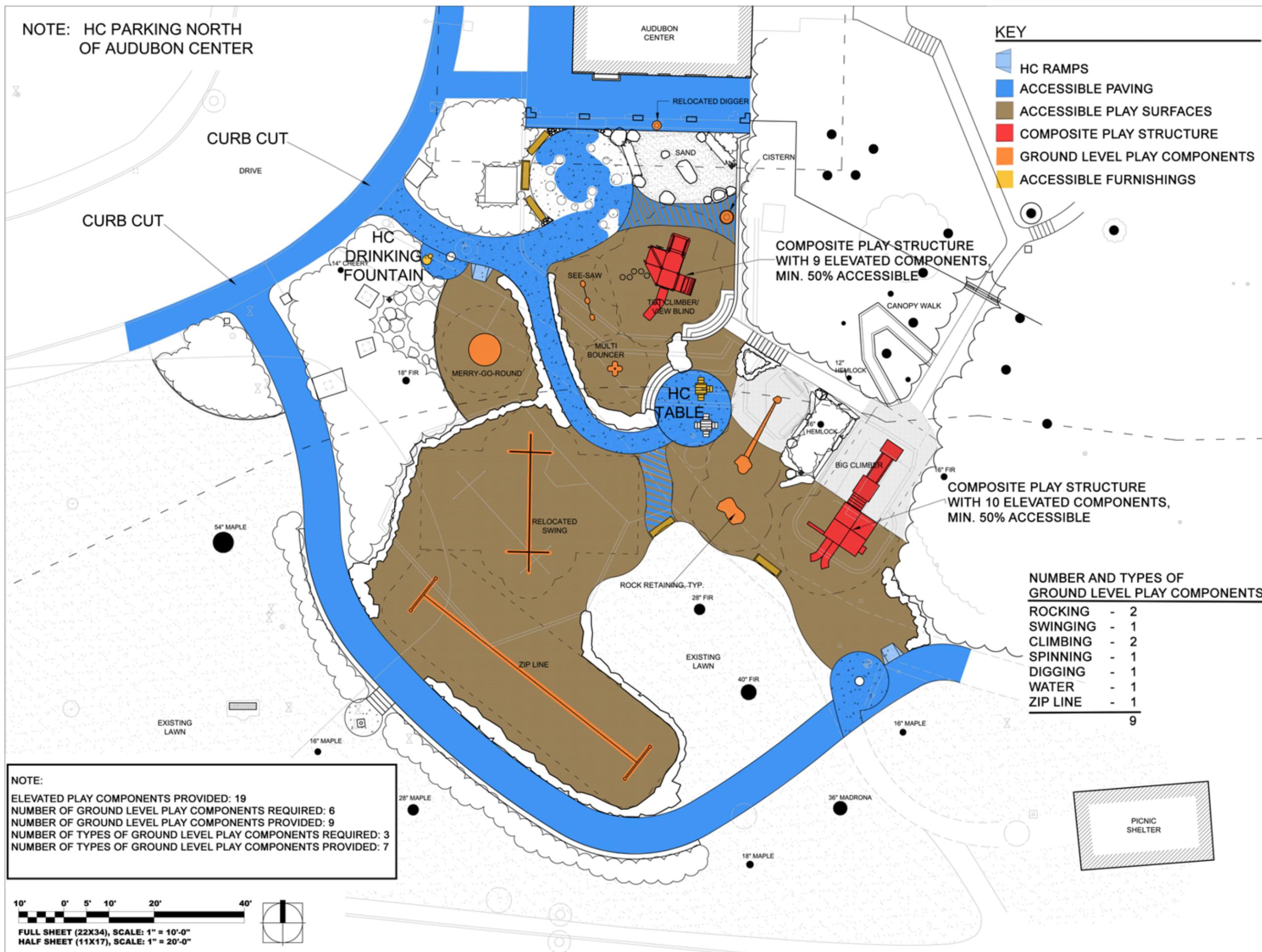
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 DRAWN: \_\_\_\_\_ DMB  
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 PROJECT NO.: \_\_\_\_\_ NO.

Notes

C3.2



NOTE: HC PARKING NORTH OF AUDUBON CENTER



**KEY**

-  HC RAMPS
-  ACCESSIBLE PAVING
-  ACCESSIBLE PLAY SURFACES
-  COMPOSITE PLAY STRUCTURE
-  GROUND LEVEL PLAY COMPONENTS
-  ACCESSIBLE FURNISHINGS

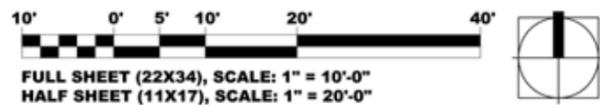
**SEWARD PARK PLAYGROUND**  
 DESIGN DEVELOPMENT  
 JUNE 16 - 2009

5895 LAKE WASHINGTON BLVD. S | SEATTLE, WA 98118

**NUMBER AND TYPES OF GROUND LEVEL PLAY COMPONENTS**

ROCKING	- 2
SWINGING	- 1
CLIMBING	- 2
SPINNING	- 1
DIGGING	- 1
WATER	- 1
ZIP LINE	- 1
	<b>9</b>

NOTE:  
 ELEVATED PLAY COMPONENTS PROVIDED: 19  
 NUMBER OF GROUND LEVEL PLAY COMPONENTS REQUIRED: 6  
 NUMBER OF GROUND LEVEL PLAY COMPONENTS PROVIDED: 9  
 NUMBER OF TYPES OF GROUND LEVEL PLAY COMPONENTS REQUIRED: 3  
 NUMBER OF TYPES OF GROUND LEVEL PLAY COMPONENTS PROVIDED: 7



STAMP

ISSUE	DATE
REVISION TITLE	REVISION DATE

REVISIONS

ISSUE DATE:	ISSUE DATE
DRAWN: BTS	
CHECKED: MEJ	
PROJECT NO.:	NO.

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**ACCESSIBILITY PLAN**  
**L-1.0a**

