

# TARMAC HEIGHTS MULTI-FAMILY

## 16016 34TH AVENUE SOUTH

### SEATAC, WASHINGTON 98188

#### CITY OF SEATAC GENERAL STANDARD PLAN NOTES

Standard plan notes must be included on all plans. Utilities should include the Utility Standard Plan Notes instead. At the applicant's discretion, notes which in no way apply to the project may be crossed out and noted as non-applicable with an explanation. For example, if General Note #14 was not applicable, it would be crossed out with a note added such as "No ROW work associated with this project". Standard Plan notes should not be modified. If a note does not fully apply to a project, cross the non-applicable sections out and include a separate note meeting the intent of the note being replaced, or an explanation for why the crossed out section should not apply.

#### GENERAL NOTES

1. All construction shall be in accordance with the City of SeaTac Municipal Code (SMC), the 2016 King County Road Standards (KCRS) as amended by the City of SeaTac Addendum to Road Standards, the latest version of the King County Surface Water Design Manual (KCSWDM) as amended by the City of SeaTac Addendum to the KCSWDM, and the latest version of the Washington State Department of Transportation (WSDOT) Standard Specifications for Roads, Bridges, and Municipal Construction and all conditions of the permits and land use actions. It shall be the sole responsibility of the applicant and the professional civil engineer to correct any error, omission, or variation from the above requirements found in these plans. All corrections shall be at no additional cost or liability to City of SeaTac. The design elements within the plans have been reviewed according to the SeaTac Engineering Review Division checklist. Some elements may have been overlooked or missed by the Engineering Review Division plan reviewer. Any variance from adopted standards is not allowed unless specifically approved by the Engineering Review Manager in writing prior to construction.

2. The design elements within these plans have been reviewed according to the City of SeaTac Engineering Review Division checklist. Some elements may have been overlooked or missed by the Engineering Review Division plan reviewer. Any variance from the City of SeaTac's adopted standards is not allowed unless specifically approved by the Engineering Review Division manager prior to construction.

3. Approval of the work described as part of this permit and shown in the plans does not constitute an approval of any other construction (domestic water conveyance, sewer conveyance, gas, electrical, etc.) All work shown on these plans need to be permitted by the City of SeaTac Engineering Review Division prior to the start of construction. More than one permit may be necessary for the work shown.

4. A preconstruction meeting must be held between the City of SeaTac Engineering Review Division, the applicant, the applicant's construction representative, and representatives from the various utilities being constructed or affected by these plans on-site or at City Hall no later than 72 hours prior to start of on-site construction. Call the City of SeaTac Engineering Review Division administrative number at 206.973.4764 to arrange a time for our representative to meet with the contractor, sub-contractors, and utility representatives. All contractors and sub-contractors will need to show proof of State L & I contractors' registration and city business license at the pre-construction meeting.

5. A copy of the latest approved plans, permits, and all associated documents must be on the job site at all times during construction.

6. It shall be the applicant's responsibility to obtain all applicable construction easements necessary before initiating work on private property.

7. Groundwater encountered during excavation shall be disposed of per section 7-08 of the WSDOT standard specifications.

8. All roadway subgrade shall be backfilled and compacted to 95 percent density (WSDOT 2-06.3).

9. Open cutting of existing roadways is not allowed unless specifically approved by City of SeaTac Public Works Director or designee and noted on these approved plans. When there is no active construction activity, trenching in the roadway must be covered with steel plates and the lanes reopened. Each side of the plate shall have a minimum of 12 inches bearing on the sides of a cut, and shall be anchored by steel pins shimmed to prevent movement, and oriented to be perpendicular to traffic. Plates shall be bedded on temporary pavement patch material and the bedding shall be tapered on all sides to provide smooth transition for all users. Plates shall be fastened to provide a smooth transition for all users. Plates shall be highlighted with paint, and an advance warning sign shall be used to identify the presence of the plate.

11. The contractor shall be responsible for providing adequate safeguards, safety devices, protective equipment, flaggers, and any other needed actions to protect the life, health, and safety of the public, and to protect property in connection with the performance of work covered by the contractor. Any work within the traveled right-of-way that may interrupt normal traffic flow shall require an approved traffic control plan. Section 1-07.23, "Traffic Control," of the WSDOT standard specifications shall apply in its entirety.

12. Construction noise shall be limited in accordance with SeaTac Municipal Code section 8.05.360. Normal working hours are from 7:00 a.m. to 4:00 p.m. Monday through Friday. On the following major arterials, however, hours of operation shall be limited from 8:30 a.m. to 3:00 p.m.: International Boulevard, Military Road South, Des Moines Memorial Drive South, 24th Avenue South, S. 16th Street, S. 17th Street, S. 154th Street, S. 160th Street, S. 170th Street, S. 176th Street, S. 188th Street, and S. 200th Street. Additional restrictions may apply based on SEPA conditions or specific site characteristics. Work outside of normal working hours or on Saturdays (9:00 a.m. to 10:00 p.m.), Sundays (9:00 to 6:00 p.m.), and holidays, will require prior written approval from the Engineering Review Division. Requests for such after-hours, weekend, or holiday must be submitted to the Engineering Review Division 72 hours in advance of such work and must be approved in writing. City staff time for after-hours, Saturday, Sunday, and holiday work will be billed at the rate of one and one half times the standard hourly rate.

13. No lane closure or work will be allowed on the roads listed in item #14 during the times listed unless approved by the City of SeaTac Engineering Review Division.

From midnight 3 days prior to Thanksgiving to midnight Monday after Thanksgiving.

From midnight December 23rd, or the Friday prior, if it occurs on a Saturday or Sunday, to midnight January 2nd, or the Monday after, if it falls on a Friday, Saturday or Sunday.

14. The contractor shall provide uniformed officers with marked police vehicles in accordance with the approved Traffic Control Plan(s). Contact the King County Police Officers' Guild to arrange for off-duty officers. They can be reached by phone at 206-957-0934 or by email at [offduty@kcpog.com](mailto:offduty@kcpog.com). Officers from other counties may be substituted if the King County Police Officers' Guild cannot provide officers. Closure of a lane of traffic on the following arterials shall require the presence of an off-duty police officer with marked patrol vehicle as part of the Traffic Control Plan(s): International Boulevard, Military Road South, Des Moines Memorial Drive South, 24th Avenue South, S. 154th Street, S. 160th Street, S. 170th Street, S. 176th Street, S. 188th Street, and S. 200th Street. Additional restrictions may apply based on SEPA conditions or specific site characteristics. Work outside of normal working hours or on Saturdays (9:00 a.m. to 10:00 p.m.), Sundays (9:00 to 6:00 p.m.), and holidays, will require prior written approval from the Engineering Review Division. Requests for such after-hours, weekend, or holiday must be submitted to the Engineering Review Division 72 hours in advance of such work and must be approved in writing. City staff time for after-hours, Saturday, Sunday, and holiday work will be billed at the rate of one and one half times the standard hourly rate.

15. The standard coordinate system to be used for projects in SeaTac, unless otherwise approved by City of SeaTac Engineering Review Division, is NAD 1983 HARN StatePlane Washington, North, FIPS 4601 Feet, WKID: 2298 Authority: EPSG, Washington State Plane Coordinates (North Zone), North American Datum of 1983 (1991) HARN, Spheroid GRS 1980, Vertical datum NAVD83, Linear units in U.S. Survey Feet", FIPS 4601 ("1 foot equals 0.3048006096 meters).

16. Upon completion of the project, a set of CAD produced As-Built drawings that are coordinately correct using city's horizontal and vertical control is to be prepared by a professional licensed surveyor or engineer. As built drawings are to be reviewed and approved by the City of SeaTac. Once approved by the City for accuracy, an electronic CAD file of the drawing shall be provided to the City of SeaTac for a permanent record.

#### DRAINAGE NOTES

1. All pipe and appurtenances shall be laid on a properly prepared foundation in accordance with WSDOT 7-02.3(1). Reductions in compaction requirements are allowed to accommodate boretention or permeable pavement installations.

2. Steel pipe shall be galvanized and have asphalt treatment #1 or better inside and outside (KCRS 7-03).

3. All drainage structures, such as catch basins and manholes, shall have locking frames and grates or solid locking lids. All drainage structures associated with a permanent retention/detention facility shall have solid locking lids.

4. All catch basin grates shall conform to the latest edition of the KCRDCS drawing numbers 7-013, 7-017, 7-019, 7-020, 7-021, and 7-022. All grates and solid covers within the Right-of-Way shall have EON lock, Ergo round covers, or approved equivalent.

5. All driveway culverts located within City of SeaTac Right-of-Way shall be of sufficient length to provide a minimum 3:1 slope from the edge of the driveway to the bottom of the ditch. Driveway culverts shall be 12" diameter concrete or equivalent with beveled end sections on all exposed ends to match the side slope, and are to have quarry spalls for erosion protection on each end (see KCRS 7-03(g), Drawing No. 7-001).

6. The standard rock lining of ditches shall be in accordance with the most recent edition of the King County Surface Water Design Manual and section 8-13 of the WSDOT standard specifications. Rock gradation shall be as follows: passing 8-inch square sieve 100%; passing 3-inch square sieve 40%; and passing 1/4 inch sieve 10%. Installation shall be constructed so as to form a firm, dense protective mat consistent with examples in KCRDCS drawing number 7-024 and conforming to the surface of the ditch. Individual rocks shall not protrude more than 3 inches from that surface.

7. All storm pipe, detention tanks & vaults, water quality tanks & vaults, and combined detention & water quality tanks & vaults shall be subject to testing per section 7-04 of the WSDOT standard specifications and City of SeaTac standard procedures.

8. Detention tanks must pass an infiltration test per the WSDOT 2016 7-04.3(1) standard prior to finalizing the STE permit.

9. All disturbed pervious areas (compacted, graded, landscaped, etc.) of the development site must demonstrate one of the following: the existing duff layer shall be staged and redistributed to maintain the moisture capacity of the soil, or amended soil shall be added to maintain the moisture capacity pursuant to City of SeaTac soil amendment standards.

10. Site clearing is limited seasonally between October 1 and March 30 inclusive, unless otherwise approved with a written decision by the City of SeaTac Engineering Review Division.

11. Prior to the construction of any improvements and/or buildings on the site, those portions of the stormwater facilities necessary to accommodate the control of surface and stormwater runoff discharge from the site during construction must be constructed, approved, and functioning properly.

12. Drainage inlets (sub-outs) shall be provided for each individual lot, except for those lots approved for infiltration by the City of SeaTac. Sub-outs shall conform to the following:

a) Each outlet shall be suitably located at the lowest elevation on the lot, so as to service all future roof downspouts and footing drains, driveways, and any other surface or subsurface drains necessary to render the lots suitable for their intended use. Each outlet shall have free-flowing, positive drainage to an approved stormwater conveyance system or to an approved outlet location.

b) Outlets on each lot shall be located with a five-foot-high, 2" x 4" stake marked "storm" or "drain". The stake shall extend above surface level, be visible, and be secured to the sub-out.

c) Pipe material shall conform to underground specifications described in KCRS 7.03. If non-metallic, the pipe shall contain wire or other acceptable detection.

d) Drainage easements are required for drainage systems designed to convey flows through individual lots.

e) The applicant/contractor is responsible for coordinating the locations of all sub-out conveyance lines with respect to utilities (e.g., power, gas, telephone, television, etc.).

f) All individual sub-outs shall be privately owned and maintained by the lot homeowner.

13. Pipe cover notes:

a) For cover less than 1 ft, ductile iron pipe is used.

b) For cover from 1 ft. to 2 ft. use reinforced concrete pipe.

c) For a min. 2 ft. cover - any material listed in the 2016 King County Surface Water Design Manual other than PVC may be used.

d) PVC pipe requires at least 3 ft. cover.

e) All PVC pipes require a sand collar when connecting to a concrete structure.

Notes: All dimensions are measured from top (outside) of pipe. a) Cover is the material over the outside top of the pipe (cover may not include the material of the pipe). If you have a three-foot grade differential between the invert of a 12" diameter pipe and the finished grade, you do not have two foot of cover over the pipe. Exceptions may be granted in non-vehicular areas.

14. The Contractor shall provide CCTV footage of all pipes installed in Right-of-Way to the City.

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Disturbed areas shall be seeded within one week of the beginning of the wet season. A sketch map of those areas to be seeded and those areas to be covered by other methods shall be submitted to the engineering review division. The city engineering inspector can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities.

10. The construction project approved by this permit is subject to City building inspection under SeaTac Municipal Codes Title 12 (Public Utilities Code) and Title 13 (Buildings and Construction Code) without prior notice.

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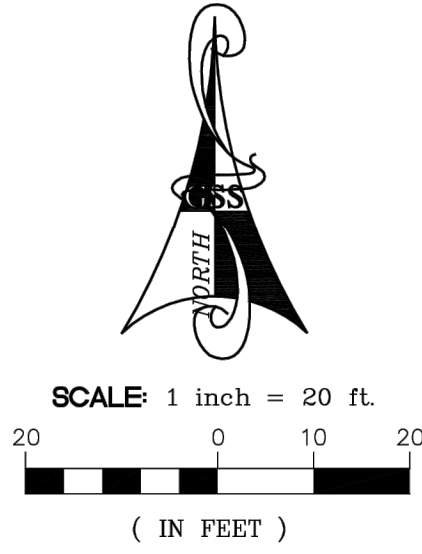
69. The construction project approved by this permit is subject to City building inspection under SeaTac Municipal Codes Title 12 (Public Utilities Code) and Title 13 (Buildings and Construction Code) without prior notice.

70. The construction project approved by this permit is subject



TOPOGRAPHICAL SURVEY

OF A PORTION OF  
THE NW 1/4 OF THE NW 1/4 OF SEC. 27, T-23 N, R-4 E.,  
CITY OF SEATAC  
WILLAMETTE MERIDIAN, KING COUNTY, WASHINGTON



MERIDIAN:  
RECORD OF SURVEY  
REC. No. 20030703900007  
VOL. 161/64

BASIS OF BEARINGS:  
THE CENTERLINE OF S 160TH ST.  
AS DEPICTED HEREON BEARING N88°38'25"W

BRASS PLUG W/PUNCH  
IN CONC. IN CASE  
VISITED FEB '21  
HELD

32ND AVE S

S 160TH ST.

N 88°38'25" W 2636.11'

700.00'

1936.11'

BRASS PLUG W/PUNCH  
IN CONC. IN CASE  
VISITED FEB '21

SITE INFORMATION:

SITE ADDRESS: 16016 34TH AVE S  
SEATAC, WA. 98188

TAX ACCOUNT No.: 537980-1002

LEGAL DESCRIPTION:

LOT 2 OF KING COUNTY SHORT PLAT No. 382022, RECORDED JUNE 1, 1982 UNDER  
RECORDING NUMBER 8206010482,  
RECORDS OF KING COUNTY, WASHINGTON.

SITUATE IN THE CITY OF SEATAC, COUNTY OF KING, STATE OF WASHINGTON.

NOTES:

1. CONTROLLING BOUNDARY DATA WAS OBTAINED BY ACTUAL FIELD MEASUREMENTS. ANGULAR AND LINEAR RELATIONSHIPS OF FIELD TRAVERSE WERE DETERMINED WITH A NIKON DTM 330 FIVE SECOND TOTAL STATION SUPPLEMENTED WITH DATA COLLECTOR AND STEEL TAPE.
2. THE SITE AND ALL CENTERLINE CONTROL MONUMENTS SHOWN ON THIS RECORD OF SURVEY WERE VISITED IN FEBRUARY 2021.
3. THIS SURVEY ACCURACY MEETS OR EXCEEDS PRECISION REQUIREMENTS AS SET FORTH IN W.A.C. 332-130-090.
4. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES OF RECORD MAY EXIST ON THIS PROPERTY THAT ARE NOT NECESSARY SHOWN HEREON.
5. ALL STRUCTURES (BUILDINGS) TIES AND FENCE TIES SHOWN HEREON ARE APPROXIMATE AND CANNOT BE USED TO ESTABLISH PROPERTY LINES.
6. THIS SURVEY DOES NOT PURPORT TO SHOW ALL FENCES AND/OR ALL OTHER SIGNS OF OCCUPANCY OR POSSESSION.
7. EXISTING POSSESSION, I.E., FENCES, SHEDS, DRIVEWAY, ETC. MAY HAVE PRIOR RIGHTS. DO NOT REMOVE THEM WITHOUT LEGAL ADVICE.
8. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN FEBRUARY OF 2021 AND AUGUST OF 2023. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD WRITTEN FIELD NOTES MAY NOT EXIST.
9. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT THE GROUND SURFACE ARE SHOWN HEREON. UNDERGROUND UTILITIES SHOWN HEREON MAY HAVE BEEN TAKEN FROM THE PUBLIC RECORDS AND ARE APPROXIMATE ONLY. GEODETIC SURVEYING SERVICES ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF PUBLIC RECORDS.

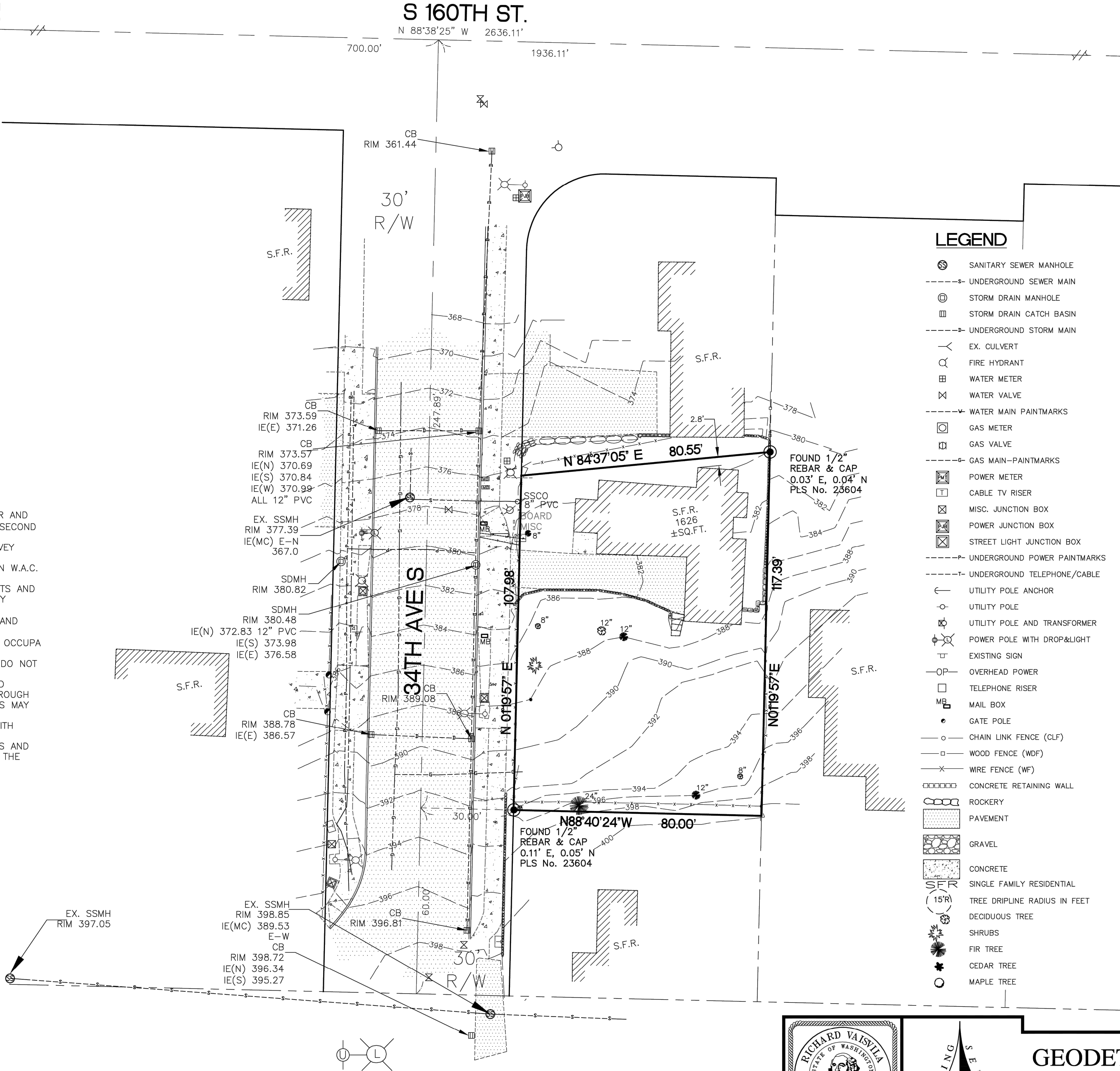
REFERENCES:

1. KING COUNTY ASSESSORS MAP OF NW 27-23-4.
2. CITY OF SEATTLE QUOTER SECTION MAP 153.
3. RECORD OF SURVEY REC. No. 20030703900007
5. RECORD OF SURVEY REC. No. 20180712900002



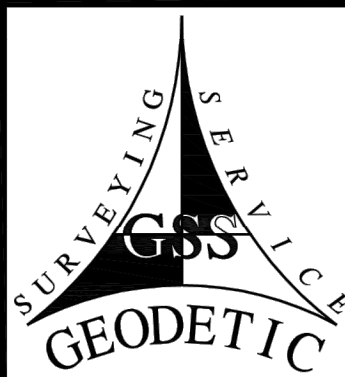
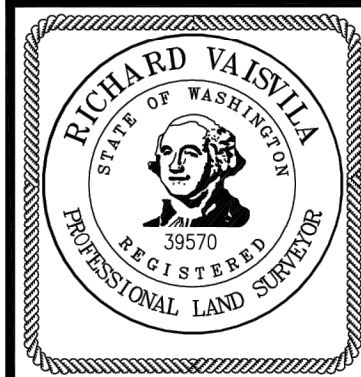
DATUM  
NAVD88

BENCHMARK  
W.S.D.O.T. BENCHMARK No. 3172  
ELEV. = 363.779



LEGEND

- SANITARY SEWER MANHOLE
- UNDERGROUND SEWER MAIN
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- UNDERGROUND STORM MAIN
- EX. CULVERT
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- WATER MAIN PAINTMARKS
- GAS METER
- GAS VALVE
- GAS MAIN-PAINTMARKS
- POWER METER
- CABLE TV RISER
- MISC. JUNCTION BOX
- POWER JUNCTION BOX
- STREET LIGHT JUNCTION BOX
- UNDERGROUND POWER PAINTMARKS
- UNDERGROUND TELEPHONE/CABLE
- UTILITY POLE ANCHOR
- UTILITY POLE
- UTILITY POLE AND TRANSFORMER
- POWER POLE WITH DROP&LIGHT
- EXISTING SIGN
- OVERHEAD POWER
- TELEPHONE RISER
- MAIL BOX
- GATE POLE
- CHAIN LINK FENCE (CLF)
- WOOD FENCE (WDF)
- WIRE FENCE (WF)
- CONCRETE RETAINING WALL
- ROCKERY
- PAVEMENT
- GRAVEL
- CONCRETE
- SINGLE FAMILY RESIDENTIAL
- TREE DRIPLINE RADIUS IN FEET
- DECIDUOUS TREE
- SHRUBS
- FIR TREE
- CEDAR TREE
- MAPLE TREE



GEODETIC  
SURVEYING SERVICES

P.O. BOX 133  
MUKILTEO, WA  
98275-0133  
PHONE: (425) 299-1739

CLIENT  
KAUR KULWANT & SINGH KAMAL  
16016 34TH AVE S  
SEATAC, WA. 98188

PROJECT  
CITY OF SEATAC  
TOPOGRAPHICAL SURVEY

DATE: 12/15/23  
SCALE: 1"=20'  
DWG: 221STC1  
JOB#: 221STC1  
DRAWN BY: RL  
APPROVED: RV  
SHEET: 1 OF 1

THE SURVEY INFORMATION  
PROVIDED BY THE OWNER/  
DEVELOPER OR CONTRACTOR.

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(425) 919-8592  
www.mypes.com

PES

TARMAC HEIGHTS MULTI-FAMILY

FOR  
SID CUSTOM HOMES

SITE SURVEY  
(EXISTING SITE CONDITIONS)

DATE: 12-6-2023

SCALE: 1"=20'

FIELD BK

DRWN BY: ES

CHECKED: MAS

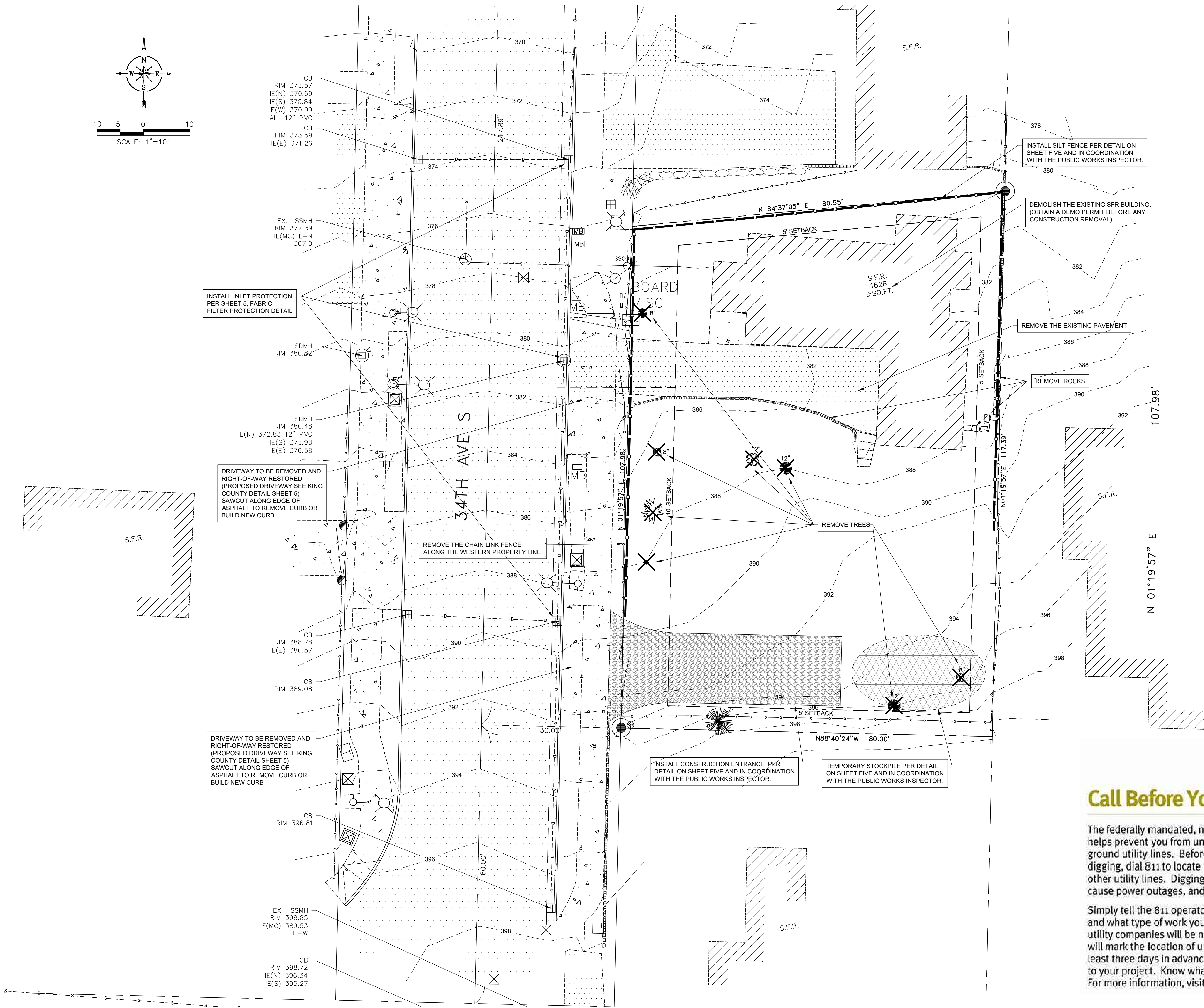
SHEET

2 OF 6

PES PROJECT

NO: 2312





- LEGEND**
- SANITARY SEWER MANHOLE
  - UNDERGROUND SEWER MAIN
  - STORM DRAIN MANHOLE
  - STORM DRAIN CATCH BASIN
  - UNDERGROUND STORM MAIN
  - EX. CULVERT
  - FIRE HYDRANT
  - WATER METER
  - WATER VALVE
  - WATER MAIN PAINTMARKS
  - GAS METER
  - GAS VALVE
  - GAS MAIN-PAINTMARKS
  - POWER METER
  - CABLE TV RISER
  - MSC JUNCTION BOX
  - POWER JUNCTION BOX
  - STREET LIGHT JUNCTION BOX
  - UNDERGROUND POWER PAINTMARKS
  - UNDERGROUND TELEPHONE/CABLE
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  - UTILITY POLE
  - UTILITY POLE AND TRANSFORMER
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  - EXISTING SIGN
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  - TELEPHONE RISER
  - MAIL BOX
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  - WIRE FENCE (WF)
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  - ROCKERY
  - PAVEMENT
  - GRAVEL
  - CONCRETE
  - SINGLE FAMILY RESIDENTIAL
  - TREE DRIPLINE RADIUS IN FEET
  - DECIDUOUS TREE
  - SHRUBS
  - FIR TREE
  - CEDAR TREE
  - MAPLE TREE
  - SILT FENCE

Call Before You Dig



The federally mandated, national phone number, 811, helps prevent you from unintentionally hitting underground utility lines. Before you begin projects that involve digging, dial 811 to locate underground electric, gas or other utility lines. Digging without this information can cause power outages, and it's extremely dangerous.

Simply tell the 811 operator where you're planning to dig and what type of work you will be doing, and your local utility companies will be notified. Within a few days, they will mark the location of underground lines. Please call at least three days in advance to avoid unnecessary delays to your project. Know what's below - Call before you dig! For more information, visit [www.call811.com](http://www.call811.com).

80.55'

80.00'

REVISIONS	
NO.	DATE
1	
2	
3	
4	
5	
6	
7	
8	

BY	
DATE	

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**PES**

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(206) 255-9392  
[www.mj-pe.com](http://www.mj-pe.com)

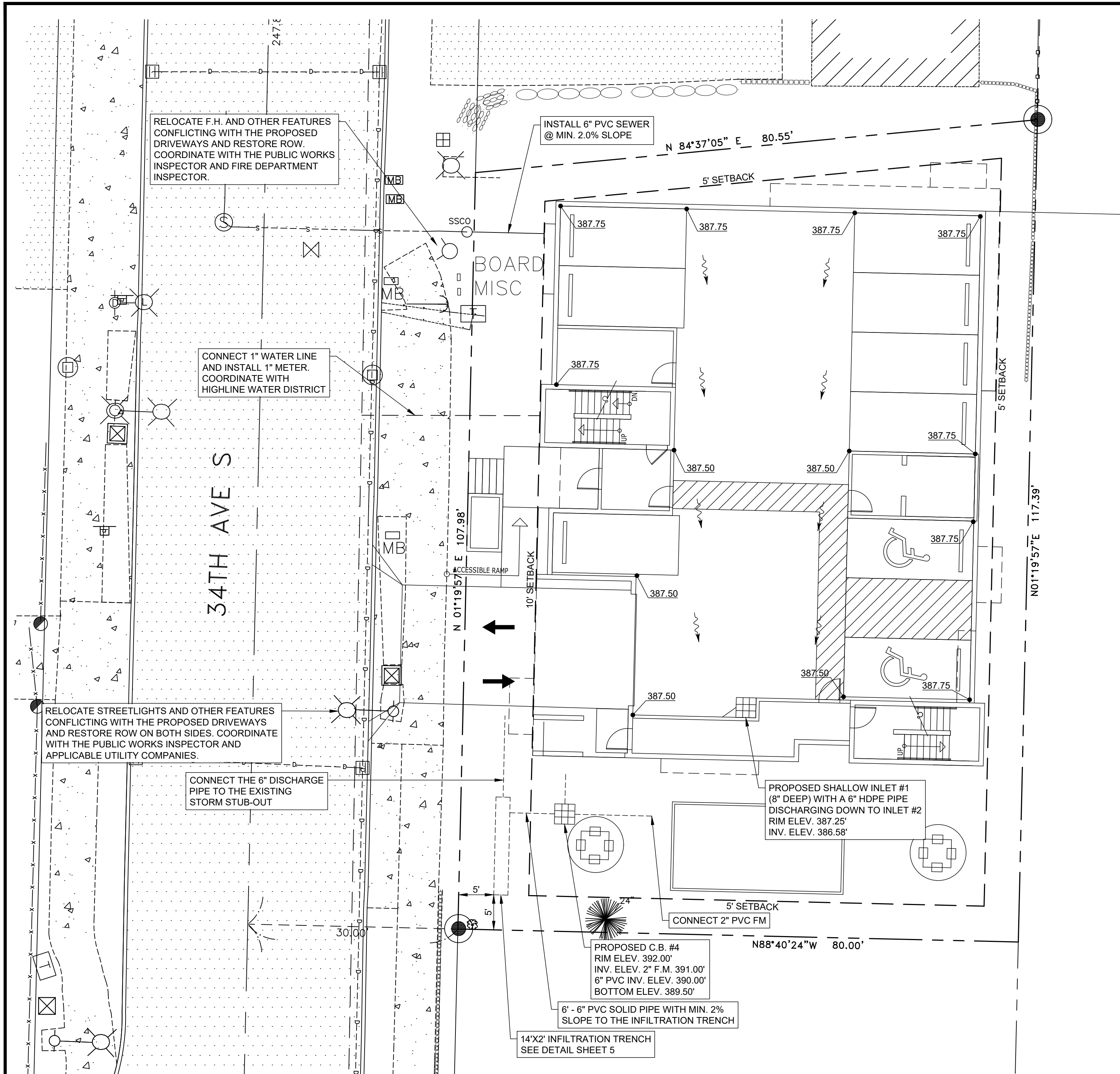
TARMAC HEIGHTS MULTI-FAMILY  
FOR  
SID CUSTOM HOMES

ESC AND DEMO PLAN

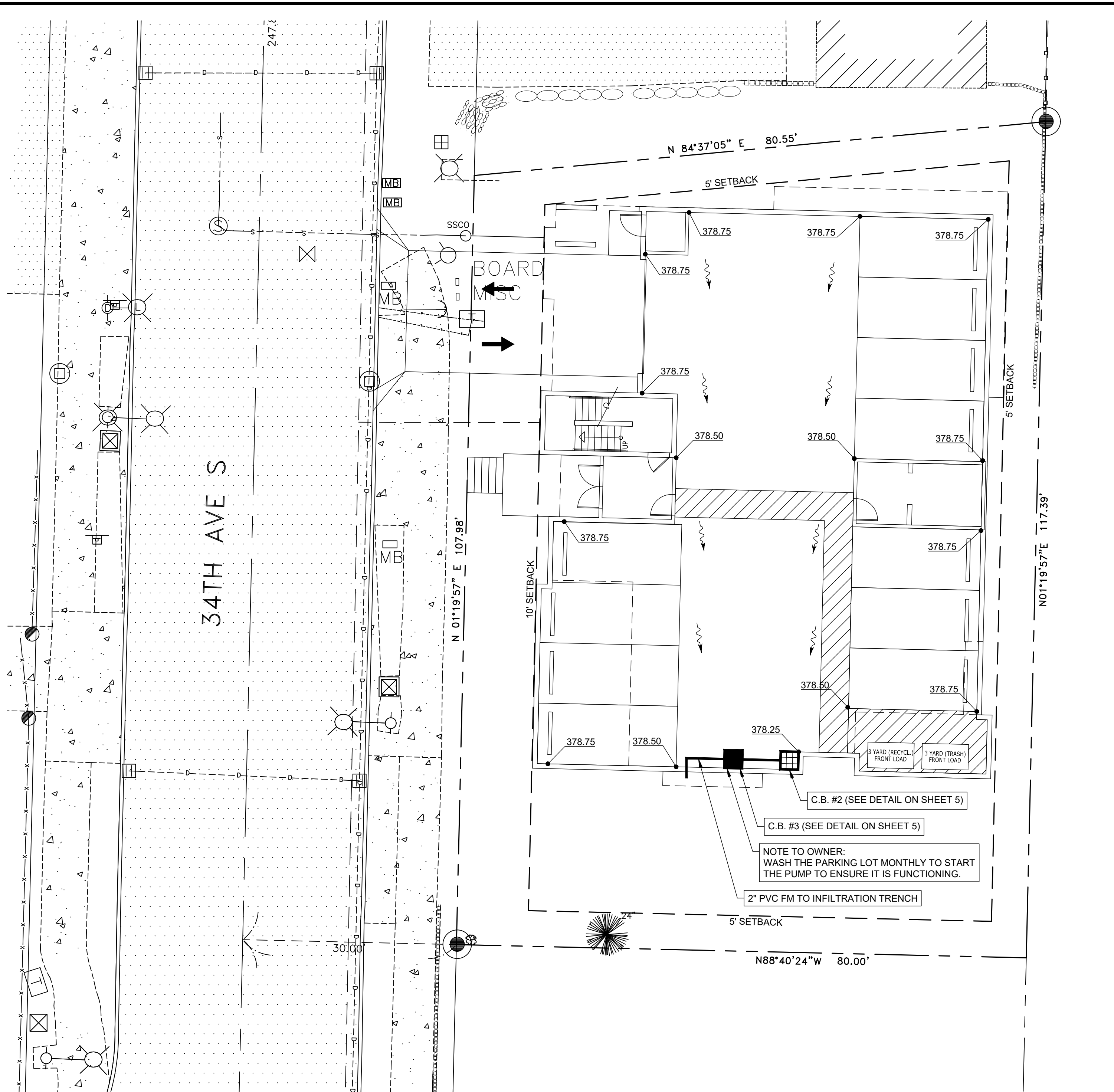
DATE: 12-6-2023  
SCALE: 1"=10'  
FIELD BK  
DRWN BY: ES  
CHECKED: MAS

SHEET  
**3** OF 6  
PES PROJECT  
NO: 2312





BASEMENT (UPPER) PLAN



BASEMENT (LOWER) PLAN

**SITE DATA**

**LOCATION:**

1606 34<sup>th</sup> Ave. S., SeaTac WA 98188  
King County  
Section 27, Township 23 N, Range 4 E

**Tax Parcel Number:** 537980 - 1002

**Zoning:** Urban High Density 900 (UH - 900)

**Comprehensive Plan:** Residential High Density

**PROJECT AREAS:**

Building (First Floor) 5,006 SF (0.115 Ac)  
Paved Area 982 SF (0.023 Ac)  
Landscape/Grass Area 3,027 SF (0.069 Ac)

Total Project Area 9,015 SF (0.207 Ac)

**BUILDING:**

Story 4  
Height 45 Ft. +/- (55 Ft. allowed)  
F.F.E. (First Floor) 387.50 Ft.  
FAR 0.56 (0.75 allowed)

**SETBACKS:**

Front 10 Ft. (10 Ft. + provided)  
Rear 5 Ft. (5 Ft. + provided)  
Sides 5 Ft. (5 Ft. + provided)

**PARKING:**

3 (STUDIO) X 1.0 Stall/STUDIO 3.0 Stalls  
3 (1 B.R.) X 1.5 Stall per B.R. 4.5 Stalls  
7 (2 B.R.) X 2.0 Stall per B.R. 14.0 Stalls

10% Parking reduction per Chapter 15.455.120 - 2.15 Stalls

Required Parking Stalls 19.5  
Provided Parking Stalls 20.0

Required H.C. Parking Stalls 1

Provided H.C. Parking Stalls 2

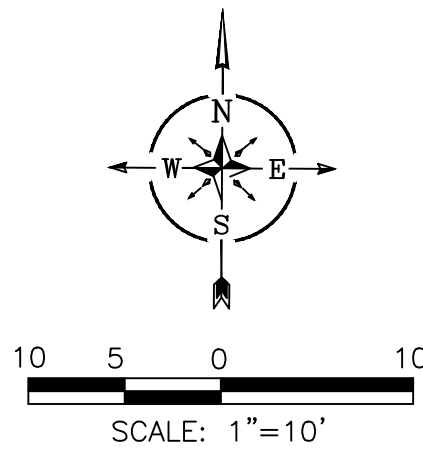
**EXCAVATION:**

Cut 16,362 CF (606 CY) Fill 3186 CF (118 CY)

**Note:** The Contractor/Owner will haul the extra cut materials to his vacant site at 3463 S. 164th St., SeaTac, WA 98188.  
A haul permit is not required.

**FLOOD ZONE:**

FEMA Flood Zone "X"  
Area of Minimum Flood Hazard  
53033C0960G Effective 8/19/2020



TARMAC HEIGHTS MULTI-FAMILY

FOR  
SID CUSTOM HOMES

SITE, PARKING, AND PGD PLAN

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NO. DATE BY

1		
2		
3		
4		
5		
6		
7		
8		

DATE: 12-6-2023

SCALE: 1"=10'

FIELD BK

DRWN BY: ES

CHECKED: MAS

SHEET

4 OF 6

PES PROJECT

NO: 2312







BUFFER DATA											
LONGITUDINAL BUFFER SPACE = B											
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70	
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730	
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R											
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.						HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'						
PROTECTIVE VEHICLE (WORK VEHICLE) = R											
NO SPECIFIED DISTANCE REQUIRED											

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		

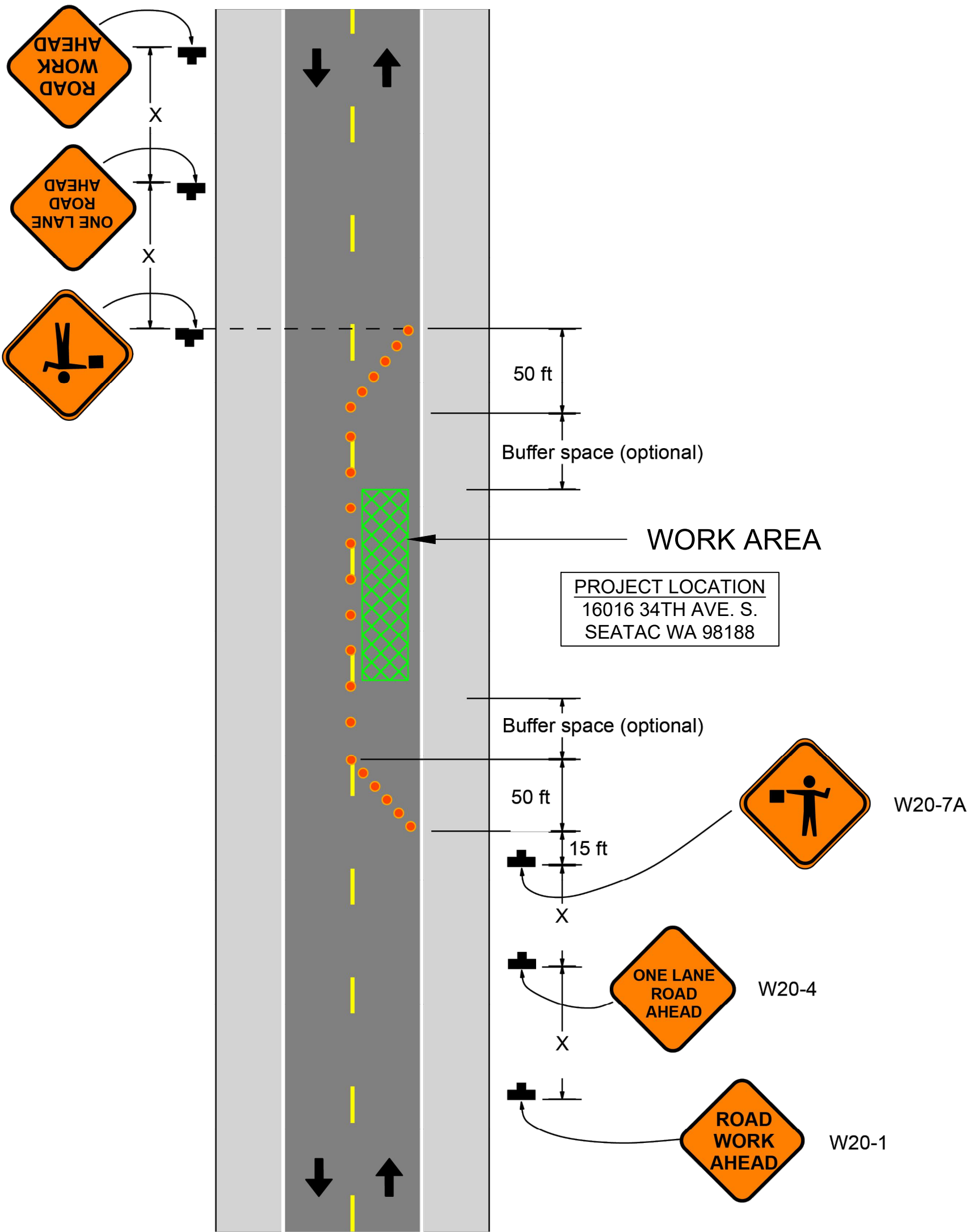
CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

## Warning Signs

- 21 x Barrel
- 6 x Sign Stand
- 2 x W20-1 road work ahead
- 2 x W20-4 one lane road ahead
- 2 x W20-7 Flagger

### TRAFFIC CONTROL PLAN NOTES

- All traffic control applications and devices must adhere to the Manual of Uniform Traffic Control Devices (MUTCD) and the City of SeaTac Standards.
- All signs must be black on orange, with a minimum size of 36" X 36".
- All traffic cones must be 28" tall, orange in color, with two retroreflective bands.
- All driveways, sidewalks, and accesses shall remain accessible during construction unless the Engineering Review Division approves.
- Maintain a minimum of 11' travel lane.
- Maintain ten feet of typical spacing between the cones.
- Cones must not encroach on the adjacent travel lane.
- All work in the ROW must take place between 9:00 AM and 4:00 PM or what is approved by the Public Works Inspector.
- The contractor must inspect and maintain all traffic control devices routinely as needed and correct any errors.
- The Public Works Inspector may adjust the traffic control devices in coordination with the contractor.



## ONE-LANE CLOSURE, TWO-LANE TRAFFIC CONTROL WITH FLAGGERS (LOW TRAFFIC VOLUMES - 30 MPH)

N.T.S



ZOELLER Sewage Ejector System: 1/2 HP,  
110V AC, Tether Float, 53 gpm Flow Rate  
@ 10 Ft. of Head

Item 6JGW6 Mfr. Model 912-1117

### Product Details

Catalog Page [2627](#)

Brand ZOELLER	Max. Liquid Temp. 130 °F
Manufacturer Part Number 912-1117	Max. Head 21 ft
HP 1/2	RPM 1,725 RPM
Number of Pumps 1	Duty Cycle Continuous
Rated Voltage 120V AC	Basin Capacity 41 gal
Hz 60 Hz	Basin Dia. 24 in
Phase - Pumps 1	Basin Height 24 in
Switch Actuation Tether Float	Pump Discharge Diameter 2 in
Switch Electrical Connection Piggyback	Inlet 4 in FNPT
Pump Body Material Cast Iron	Vent Size 2 in
Basin Material Polyethylene	Alarm Included Yes
Flow Rate @ 5 Ft. of Head 128 gpm	Alarm Application Indoor
Flow Rate @ 10 Ft. of Head 53 gpm	Includes Internal 2 in PVC Discharge Pipe and High Water Indoor Alarm
Flow Rate @ 15 Ft. of Head 32 gpm	Manufacturers Warranty Length 3 yr
Flow Rate @ 20 Ft. of Head 10 gpm	UNSPSC 40151517
Max. Diameter Solids 2 in	Country of Origin USA (subject to change)
Cord Length 10 ft	

### Product Description

These 110V sewage ejector pump systems have an alarm that turns on when the water rises to a preset level in the sump basin. This alerts that the pump has malfunctioned or is not able to keep up with the water flow. Pumps remove sewage containing solids from drains where a gravity system won't work, such as in septic systems that are below the main sewer line. They are compatible with most standard U.S. residential electrical wall outlets and have a Type A (two prongs, ungrounded) or Type B (three prongs, grounded) power cord plug.

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TARMAC HEIGHTS MULTI-FAMILY  
FOR  
SID CUSTOM HOMES  
PUMP DETAIL & TRAFFIC CONTROL PLAN

DATE: 12-6-2023  
SCALE: NTS  
FIELD BK  
DRWN BY: ES  
CHECKED: MAS

SHEET  
6 OF 6  
PES PROJECT  
NO: 2312