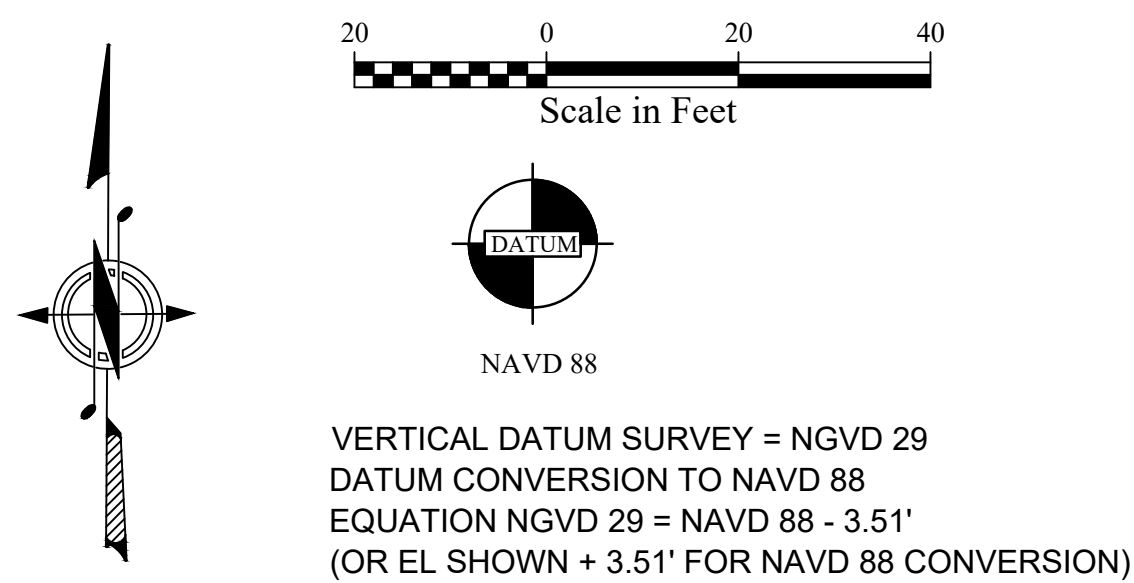


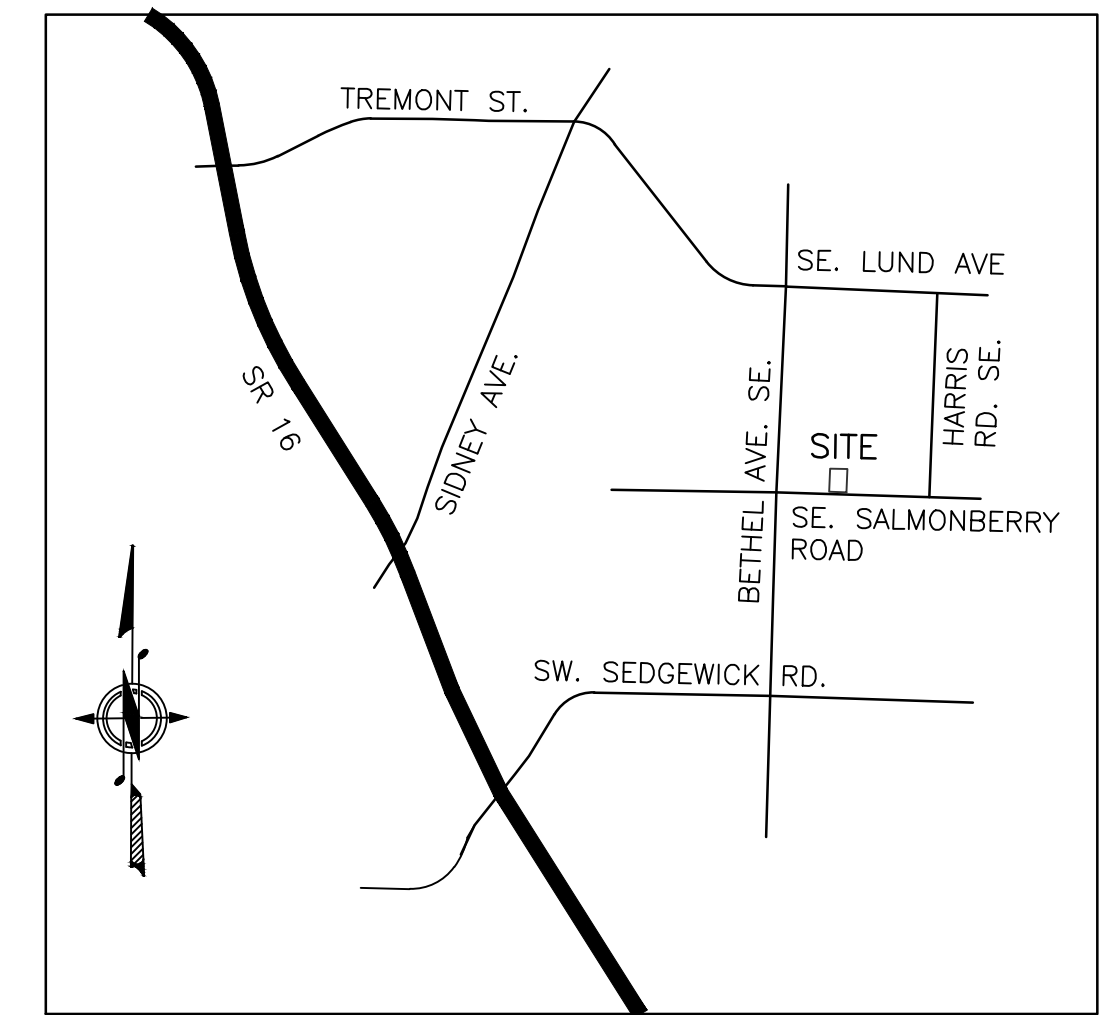
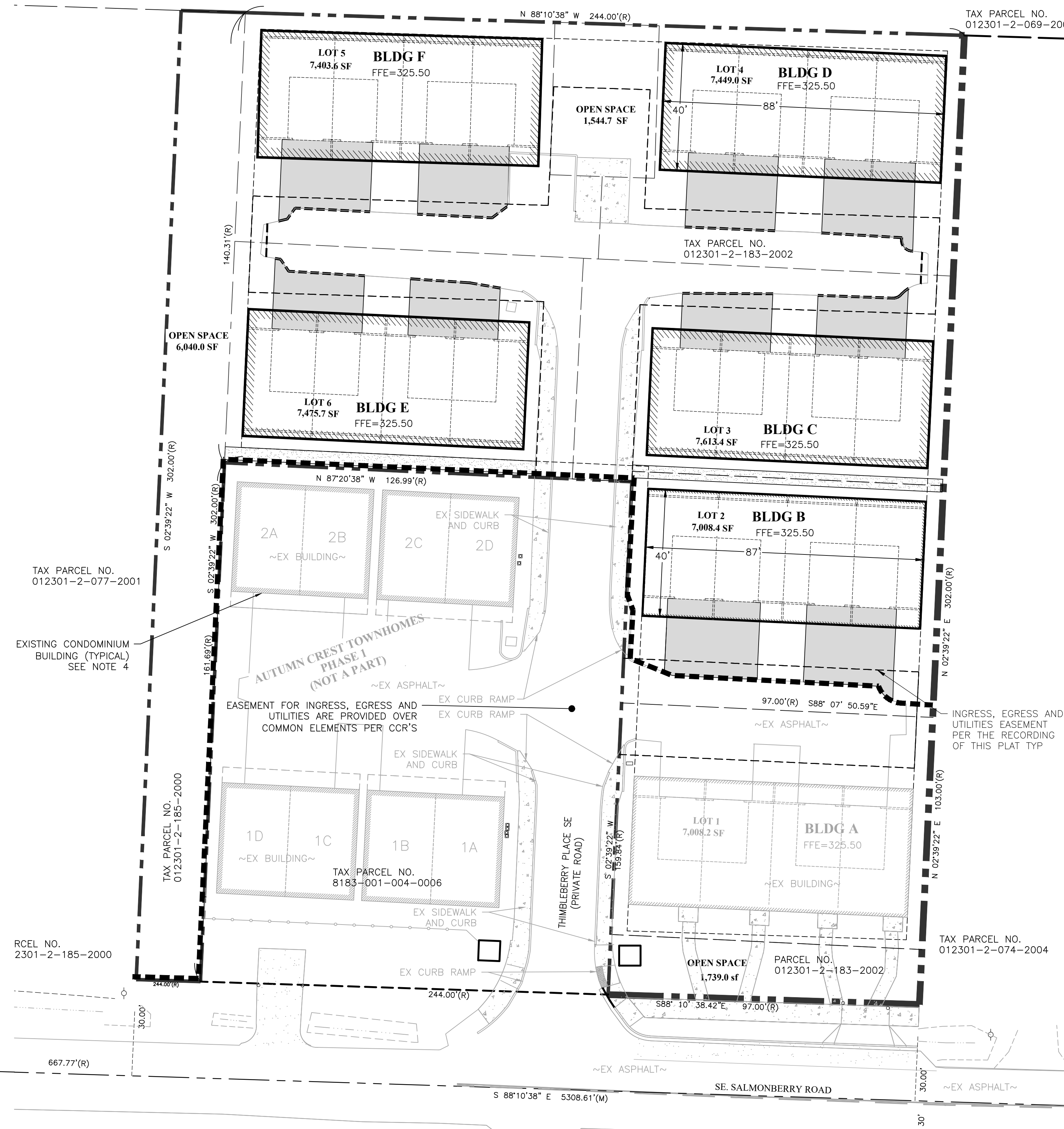
THIMBLEBERRY PLAT LOTS 2-6 (L.D.A.P.)



Scale: 1"= 20'

LEGEND

- CATCH BASIN
- ⊙ STORM MANHOLE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ CLEANOUT
- ⊙ GAS METER
- ⊙ ELECTRICAL METER
- ⊙ TRANSFORMER
- ⊙ POWER VAULT
- ⊙ BURIED POWER MARKER
- ⊙ TELEPHONE RISER
- ⊙ WATER METER
- ⊙ WATER VALVE
- ⊙ FIRE HYDRANT
- W_d WATER LINE MARKER
- ⊙ IRRIGATION VALVE BOX
- ⊙ MAIL BOX
- STORM DRAIN PIPE
- SANITARY SEWER PIPE
- BURIED POWER CABLE
- BURIED TELEPHONE CABLE
- WATER LINE
- GAS LINE
- FENCE LINE AS NOTED
- ASPHALT
- CONCRETE
- BUILDING LINE
- STORM DETENTION PIPE, APPROXIMATE LOCATION
- NRS NON RESIDENTIAL BUILDING
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED BUILDING OUTLINE
- LANDSCAPED AREA (TYP)
- BOUNDARY LINE
- CLEARING LIMITS
- EXISTING ROW
- PROPOSED STORM CB
- PROPOSED STORM DRAIN LINE
- EX MEANS EXISTING
- ~ MEANS APPROXIMATE
- PIPE FLOW DIRECTION ARROW
- SURFACE FLOW ARROW



VICINITY MAP (N.T.S.)
Portion of the Southwest Quarter of the Northwest Quarter
Section 1, Township 23 North, Range 1 East, W.M.
in Kitsap County, Washington

NOTES

- BASIS OF BEARINGS: SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 1, TOWNSHIP 23 NORTH, RANGE 1 EAST, W.M. BEARS SOUTH 88°10'28" EAST.
- HORIZONTAL DATUM: WASHINGTON STATE COORDINATE SYSTEM NAD83/91 NORTH ZONE PER GPS TIES TO WSRN.
- VERTICAL DATUM: NGVD29
BENCH MARK: RIM OF SANITARY SEWER MANHOLE NEAR THE INTERSECTION OF SE SALMONBERRY ROAD AND THIMBLEBERRY PLACE SE.
ELEVATION = 324.62
- REFERENCE: AUTUMN CREST TOWNHOMES PHASE 1, RECORDED UNDER AUDITOR'S FILE NUMBER 200706270377, RECORDS OF KITSAP COUNTY, WASHINGTON.
- REFERENCE: DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS AUTUMN CREST TOWNHOMES, A CONDOMINIUM, RECORDED UNDER AUDITOR'S FILE NUMBER 200706270378, RECORDS OF KITSAP COUNTY, WASHINGTON.

DESCRIPTION

(THIS PARCEL IS ALSO KNOWN AS THE FUTURE PHASES OF AUTUMN CREST TOWNHOMES CONDOMINIUMS AS RECORDED UNDER AUDITOR'S FILE NO. 200706270377)
 PARCEL 1: THE WEST HALF, EXCEPT THE EAST 20 FEET THEREOF, OF THE FOLLOWING DESCRIBED PROPERTY: BEGINNING AT A POINT SOUTH 89°12' EAST 799.77 FEET FROM THE WEST QUARTER CORNER OF SECTION 1, TOWNSHIP 23 NORTH, RANGE 1 EAST, W.M., IN KITSAP COUNTY, WASHINGTON; THENCE NORTH 1°38' EAST 332 FEET; THENCE SOUTH 89°12' EAST 264 FEET; THENCE SOUTH 1°38' WEST 332 FEET; THENCE NORTH 89°12' WEST 264 FEET TO THE POINT OF BEGINNING; EXCEPT S.E. SALMONBERRY ROAD;
 PARCEL 2: THE EAST HALF, EXCEPT THE WEST 20 FEET THEREOF, OF THE FOLLOWING DESCRIBED PROPERTY: BEGINNING AT A POINT WHICH IS SOUTH 89°12' EAST 535.77 FEET FROM THE WEST QUARTER CORNER OF SECTION 1, TOWNSHIP 23 NORTH, RANGE 1 EAST, W.M., IN KITSAP COUNTY, WASHINGTON; THENCE NORTH 1°38' EAST 332.0 FEET; THENCE SOUTH 89°12' EAST 264.0 FEET; THENCE SOUTH 1°38' WEST 332.0 FEET; THENCE NORTH 89°12' WEST 264.0 FEET TO THE POINT OF BEGINNING; EXCEPT THAT PORTION USED FOR ROAD PURPOSES;
 AND EXCEPT THAT PORTION OF THE ABOVE DESCRIBED PARCELS DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHWEST CORNER OF THE ABOVE DESCRIBED PARCEL 2; THENCE SOUTH 88°25'38" EAST ALONG THE SOUTH LINE OF PARCELS 1 AND 2 A DISTANCE OF 127.00 FEET; THENCE NORTH 2°24'22" EAST 159.84 FEET; THENCE NORTH 87°35'38" WEST 126.99 FEET TO THE WEST LINE OF THE ABOVE DESCRIBED PARCEL 2; THENCE SOUTH 2°24'22" WEST ALONG SAID LINE 161.69 FEET TO THE POINT OF BEGINNING.

COUNTER COMPLETE PERMIT CENTER
OCT 21 2021
CITY OF PORT ORCHARD COMMUNITY DEVELOPMENT

LOTS 2-6, BUILDINGS B-E SITE DATA

TAX ACCOUNT NOS.	012301-2-183-2002
SITE ADDRESS	3993 THIMBLEBERRY PLACE SE
DISTURBED AREA	~33,600 SF (0.77 AC)
PARCEL AREA	~53,200 SF (1.22 AC)
ACCESS, UTILITY ESMT AREA	11,937 SF (0.27 AC)
ZONING	RESIDENTIAL: (12 D.U./AC)
COMPREHENSIVE PLAN	RESIDENTIAL: MEDIUM DENSITY (PER CITY 2014 PLAN)
WATER	WEST SOUND UTILITY DISTRICT
SANITARY SEWER	PORT ORCHARD UGA
BUILDING SETBACKS	STREET RIGHT-OF-WAY - 15 FEET SIDE YARD - 5 FEET CORNER LOT REAR YARD - 5 FEET

FOR: LA WILLIAMS CONSTRUCTION, LTD
ATTN: TONY WILLIAMS
PO BOX 111
FOX ISLAND, WA 98333
253-381-0252

11407_2021.09.21

*SITE CUT AND FILL QUANTITY TABLE

CUT/FILL100/100± CY
 QUANTITIES DO NOT INCLUDE STRIPPING
 * QUANTITIES ARE APPROXIMATE
 NOTE:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE MATERIAL QUANTITIES. THE ESTIMATES PROVIDED MUST NOT BE USED FOR BIDDING PURPOSES.
CALL 48 HOURS

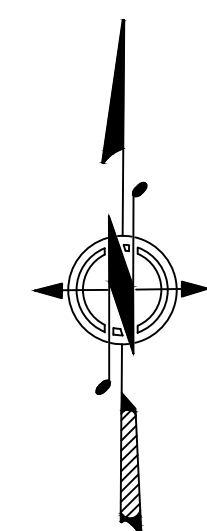
N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



10.12.2021

SHEET	DESCRIPTION
C1.0	COVER SHEET
C2.0	EXISTING CONDITIONS
C2.1	T.E.S.C. AND DEMOLITION PLAN
C2.2	T.E.S.C. NOTES & DETAILS
C3.0	SITE PLAN
C3.1	MISCELLANEOUS SITE NOTES & DETAILS
C4.0	GRADING & STORM PLAN
C4.1	GRADING NOTES & DETAILS
C5.0	UTILITY PLAN
C6.0	WATER NOTES & DETAILS
C7.0	SEWER NOTES & DETAILS

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SCALE: 1"=20'



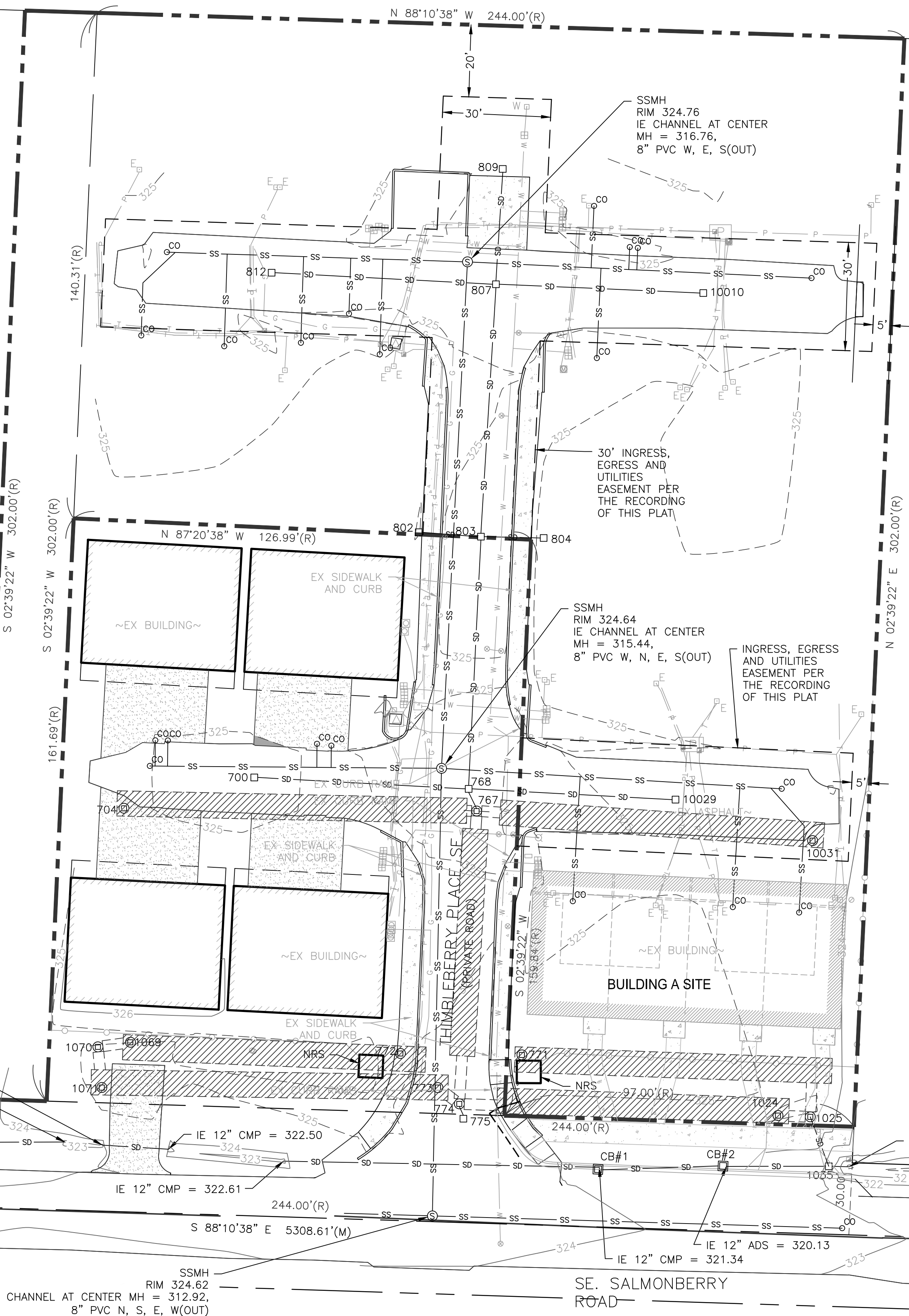
VERTICAL DATUM SURVEY = NGVD 29
DATUM CONVERSION TO NAVD 88
EQUATION NGVD 29 = NAVD 88 - 3.51'
(OR EL SHOWN + 3.51' FOR NAVD 88 CONVERSION)

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LEGEND

- CATCH BASIN
- ⊙ STORM MANHOLE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ CLEANOUT
- ⊙ GAS METER
- ⊙ ELECTRICAL METER
- ⊙ TRANSFORMER
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- ⊙ FIRE HYDRANT
- ⊙ WATER LINE MARKER
- ⊙ IRRIGATION VALVE BOX
- ⊙ MAIL BOX
- SD—SD— STORM DRAIN PIPE
- SS—SS— SANITARY SEWER PIPE
- P—P— BURIED POWER CABLE
- T—T— BURIED TELEPHONE CABLE
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- G—G— GAS LINE
- FENCE LINE AS NOTED
- ASPHALT
- CONCRETE
- BUILDING LINE
- STORM DETENTION PIPE, APPROXIMATE LOCATION
- NRS NON RESIDENTIAL BUILDING



STORM TABLE

- CB#700 TYPE 1
RIM = 324.41
IE 12" ADS E = 320.21
- CB#704 TYPE 2
RIM (SOLID LID) = 325.11
IE 7" CMP E = 315.66
- CB#767 TYPE 2
RIM(SOLID LID) = 324.77
IE 12" ADS N = 320.07
IE 36" CMP E = 319.97
IE 36" CMP S = 319.87
IE 36" CMP W = 319.77
- CB#768 TYPE 1
RIM = 324.48
IE 12" ADS N = 320.23
IE 12" ADS E,W,S = 320.18
- CB#771 TYPE 2
RIM (SOLID LID) = 324.94
IE 7" CMP E, W = 316.09
- CB#772 TYPE 2
RIM (SOLID LID) = 325.34
IE 7" CMP E, W = 316.04
- CB#773 TYPE 2
RIM (SOLID LID)=324.67
IE 36" CMP SE = 319.87
IE 7" CMP E, W = 315.97
- CB#774 TYPE 2
RIM (SOLID LID) = 324.74
IE 12" ADS S = 319.94
IE 36" CMP E = 319.89
IE 36" CMP E, NW = 319.69
- CB#775 TYPE 1
RIM = 324.44
IE 12" ADS N = 320.64
- CB#802 TYPE 1
RIM = 324.81
IE 4" PVC W 323.26
IE 12" ADS E = 322.31
- CB#803 TYPE 1
RIM = 324.55
IE 12" ADS N,E,W = 321.70
IE 12" ADS S = 321.75
- CB#804 TYPE 1
RIM = 324.42
IE 12" ADS W = 321.92
- CB#807 TYPE 1
RIM = 324.57
IE 12" ADS N = 321.77
IE 12" ADS E,W = 321.72
IE 12" ADS S = 321.67
- CB#809 TYPE 1
RIM = 324.46
IE 12" ADS S = 321.76
- CB#812 TYPE 1
RIM = 324.40
IE 12" ADS E = 321.65
- CB#1024 TYPE 2
RIM (SOLID LID) = 324.93
IE 7" CMP E, W = 316.13
- CB#1025 TYPE 2 (CONTROL STRUCTURE)
RIM (SOLID LID) = 324.95
IE 36" CMP N = 320.10
IE 36" CMP W = 319.95
IE 12" ADS SE = 319.95
TOP OF RISER = 323.20
- CB#10031 TYPE 2
RIM (SOLID LID) = 324.60
IE 7" CMP W = 315.70
- CB#1035 TYPE 1
RIM = 321.95
IE 12" ADS N, W, = 319.85
IE 12" ADS E = 316.70
- CB#1069 TYPE 2
RIM (SOLID LID) = 325.99
IE 36" CMP W = 319.84
IE 7" CMP E = 315.99
- CB#1070 TYPE 2
RIM (SOLID LID) = 326.01
IE 36" CMP E, S = 320.01
- CB#1071 TYPE 2
RIM (SOLID LID) = 325.48
IE 36" CMP N = (UNABLE TO MEASURE)
IE 7" CMP E = 316.08
- CB#10010 TYPE 1
RIM = 324.45
IE 12" ADS W = 321.85
- CB#10029 TYPE 1
RIM = 324.65
IE 12" ADS W = 320.20
- CB#1 TYPE 1, WITH STANDARD GRATE
RIM = 324.00
IE 12" CPEP W, E = 321.34
- CB#2 TYPE 1, WITH CURB INLET
FL=323.08
TC=323.58
IE 12" CPEP W, E, = 320.13
- CB#1 & CB#2 PER LDAP FOR BUILDING A

WEST QUARTER CORNER
SEC. 1, T.23N., R.1E., W.M.,
FOUND K.C. MONUMENT IN
CASE, VISITED MAY, 2014

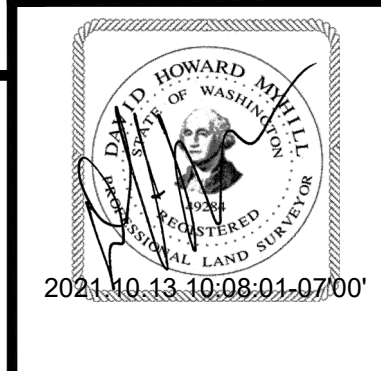
EAST QUARTER CORNER
SEC. 1, T.23N., R.1E., W.M.,
FOUND K.C. MONUMENT IN
CASE, VISITED MAY, 2014



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE

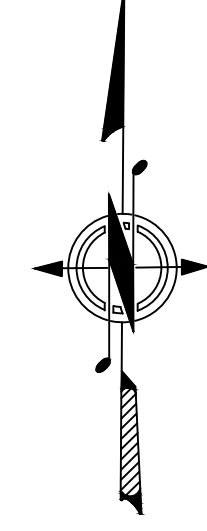
N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY PLAT (L.D.A.P.)
EXISTING CONDITIONS UTILITY AS-BUILT DRAWING
Portion of the Southwest Quarter of the Northwest Quarter
Section 1, Township 23 North, Range 1 East, W.M.
in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
ATTN: TONY WILLIAMS
PO BOX 111
FOX ISLAND, WA 98333
253-381-0252

SCALE: 1"=20'
DATE: 2020.10.15
DRAWING NUMBER
11407
SHEET C2.0



SCALE: 1"=20'



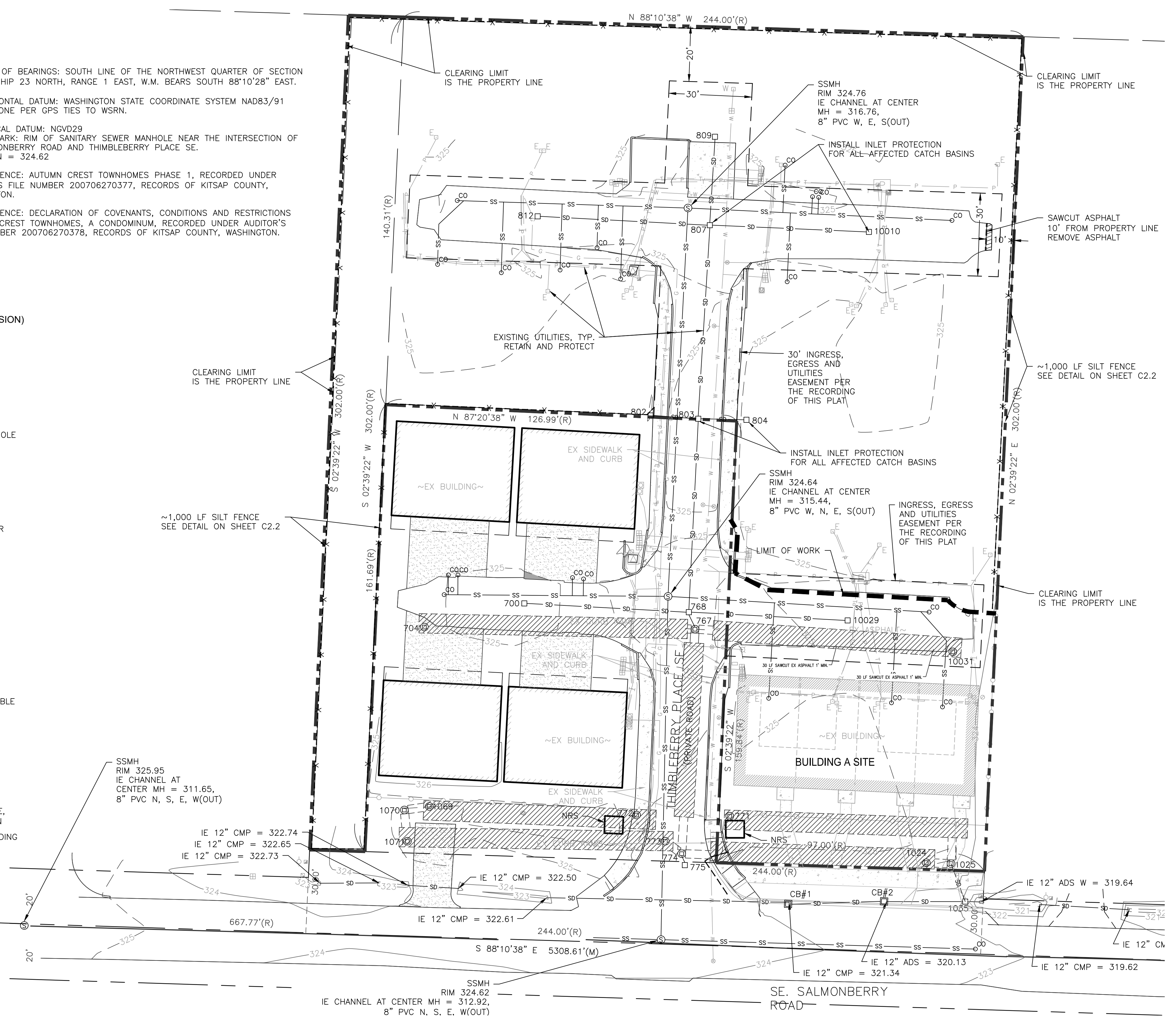
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LEGEND

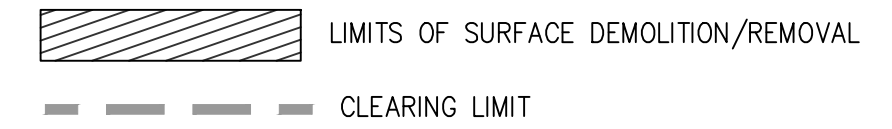
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 - NRS NON RESIDENTIAL BUILDING



NOTES:

1. T.E.S.C. MEASURES AND BMPs SHOWN ON THESE PLANS ASSUME GRADING TO OCCUR DURING DRY CONSTRUCTION SEASON. IF GRADING AND CONSTRUCTION IS TO OCCUR BETWEEN THE PERIOD OF OCTOBER 1ST THROUGH APRIL 30TH, ADDITIONAL T.E.S.C. MEASURES MAY BE REQUIRED TO COMPLY WITH CITY OF PORT ORCHARD AND WASHINGTON DEPARTMENT OF ECOLOGY STANDARDS FOR WATER QUALITY. AT ALL TIMES WHILE THIS SITE IS UNDER CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE WATER QUALITY STANDARDS ARE MET. FILTERING OF STORM WATER PRIOR TO DISCHARGE MAY BE REQUIRED. REFER TO ALL NOTES REGARDING WATER QUALITY.
2. ALL KNOWN FUEL STORAGE TANKS WITHIN 100' OF PROJECT BOUNDARIES ARE SHOWN (NONE KNOWN).
3. APPROXIMATE LOCATIONS OF EXISTING WELLS, SANITARY SEWER SYSTEMS, SEPTIC TANKS AND/OR DRAINFIELDS SHOWN.
4. THE LOCATION OF UNDERGROUND UTILITIES ARE NOT SHOWN OR ARE SHOWN IN APPROXIMATE LOCATIONS ONLY BASED UPON TIES TO SURFACE STRUCTURES. BEFORE ANY CONSTRUCTION ACTIVITIES OCCUR IT WILL BE NECESSARY TO CONTACT THE LOCAL LOCATE SERVICE FOR UTILITY LOCATIONS.
5. CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY PURVEYOR PRIOR TO REMOVAL OR ABANDONMENT OF EXISTING UTILITIES ON SITE.
6. REMOVAL OF SURFACE STRUCTURES TO BE COORDINATED WITH OWNER.
7. ALL TREES WITHIN CLEARING LIMITS TO BE REMOVED UNLESS OTHERWISE SPECIFIED, OWNER TO VERIFY. REMOVAL OF TREES TO BE COORDINATED AND APPROVED BY OWNER.
8. SEE SHEET C-2.2 FOR T.E.S.C. NOTES AND DETAILS.

Demolition and Removal Legend:



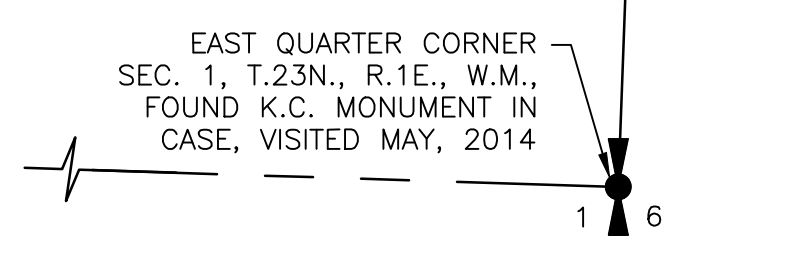
- NOTE:**
1. ALL EXISTING STRUCTURES AND HARD SURFACES WITHIN THE CLEARING LIMITS TO BE REMOVED.
 2. INLET PROTECTION TO BE PROVIDED TO ALL CATCH BASINS AND STORM INLET WITHIN THE VICINITY OF THE PROJECT AREA. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE SEDIMENT CONTROL.

CONSTRUCTION ORDER FOR T.E.S.C.

1. EXISTING ROAD MAY BE USED AS CONSTRUCTION ENTRANCE.
2. INSTALL PERIMETER SILT FENCES IN THE LOCATIONS SHOWN ON THE T.E.S.C. PLAN.
3. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND PONDS AND TEMPORARY CONVEYANCE (AS SHOWN IN PLAN)
4. BEGIN CLEARING AND GRUBBING OPERATIONS.
5. INSTALL INTERCEPTOR DITCHES (AS SHOWN IN PLAN)
6. COMMENCE SITE GRADING.
7. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDING AND WATERED OR COVERED WITH STRAW.
8. INSTALL PROTECTIVE SILT FENCES OR SEDIMENT BARRIERS AT THE LOCATIONS OF ALL GRATE INLETS AND AT THE ENDS OF ALL EXPOSED STORM PIPES.
9. FINALIZE SUBGRADE PREPARATION.
10. REMOVE SILT FENCES OR SEDIMENT BARRIERS AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
11. INSTALL BASE MATERIAL AS REQUIRED
12. CARRY OUT FINAL GRADING, SEEDING, PLANTING, OR COVER WITH STRAW MULCH AREAS THAT WILL NOT RECEIVE ASPHALT OR PERMANENT STABILIZATION.
13. REMOVE SILT FENCING ONLY AFTER PLACEMENT OF ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.
14. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).
15. REMOVE SEDIMENT FROM CONVEYANCE SYSTEM AS NECESSARY.

SURVEY NOTE:

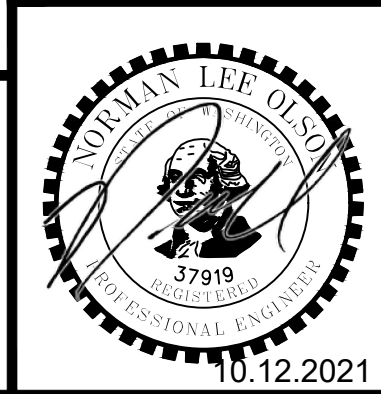
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE

N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
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2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY LOTS 2-6 (L.A.D.P.)
T.E.S.C. AND DEMOLITION PLAN
Portion of the Southwest Quarter of the Northwest Quarter
Section 1, Township 23 North, Range 1 East, W.M.
in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
ATTN: TONY WILLIAMS
PO BOX 111
FOX ISLAND, WA 98333
253-381-0252

COUNTER COMPLETE
PERMIT CENTER
OCT 21 2021
CITY OF PORT ORCHARD
COMMUNITY DEVELOPMENT

SCALE: 1"= 20'
DATE: 2021.09.13
DRAWING NUMBER
11407
SHEET C2.0

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

THE FOLLOWING EROSION AND SEDIMENTATION CONTROL NOTES APPLY TO ALL CONSTRUCTION SITE ACTIVITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED ON THESE PLANS:

- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT CONSTITUTE AN ACCEPTANCE OF THE PERMANENT ROAD OR DRAINAGE DESIGN.
- THE OWNER AND HIS/HER CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT-LOADED RUNOFF FROM DISCHARGING FROM THE PROJECT SITE. FAILURE BY THE OWNER AND/OR CONTRACTOR CAN RESULT IN A FINE. THE DESIGNATED TEMPORARY CONTACT PERSON NOTED ON THIS PLAN MUST BE AVAILABLE FOR CONTACT BY TELEPHONE ON A 24 HOUR BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED BY THE CITY.
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR FROM THE BEGINNING OF CONSTRUCTION UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE CITY AND THE SITE IS STABILIZED.
- PRIOR TO BEGINNING ANY WORK ON THE PROJECT SITE, A PRE-CONSTRUCTION CONFERENCE MUST BE HELD, AND SHALL BE ATTENDED BY THE GENERAL CONTRACTOR, THE PROJECT ENGINEER, REPRESENTATIVES FROM THE AFFECTED UTILITIES, AND A REPRESENTATIVE OF THE CITY OF PORT ORCHARD.
- THE EROSION AND SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN ARE TO BE CONSIDERED ADEQUATE BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, DEVIATIONS FROM THIS PLAN MAY BE NECESSARY IN ORDER TO MAINTAIN WATER QUALITY. MINOR DEPARTURES FROM THIS PLAN ARE PERMITTED SUBJECT TO THE APPROVAL OF THE CITY INSPECTOR. HOWEVER EXCEPT FOR EMERGENCY SITUATIONS, ALL OTHER DEVIATIONS FROM THIS PLAN MUST BE DESIGNED BY THE PROJECT ENGINEER AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER AND/OR CONTRACTOR ON A FREQUENT BASIS AND IMMEDIATELY AFTER EACH RAINFALL, AND MAINTAINED AS NECESSARY TO INSURE THEIR CONTINUED FUNCTIONING. ALL SEDIMENT MUST BE REMOVED FROM THE SILT FENCES, STRAW BALES, SEDIMENT PONDS, ETC. PRIOR TO THE SEDIMENT REACHING 1/2 ITS MAXIMUM POTENTIAL DEPTH.
- AT NO TIME SHALL CONCRETE, CONCRETE BYPRODUCTS, VEHICLE FLUIDS, PAINT, CHEMICALS, OR OTHER POLLUTING MATTER BE PERMITTED TO DISCHARGE TO THE TEMPORARY OR PERMANENT DRAINAGE SYSTEM, OR TO DISCHARGE FROM THE PROJECT SITE.
- PERMANENT DETENTION/RETENTION PONDS, PIPES, TANKS OR VAULTS MAY ONLY BE USED FOR SEDIMENT CONTAINMENT WHEN SPECIFICALLY INDICATED ON THESE PLANS.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MOST CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION PREPARED BY WSDOT AND APWA AS ADOPTED BY THE CITY OF PORT ORCHARD.
- ANY REVISIONS TO THE ACCEPTED CONSTRUCTION PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO IMPLEMENTATION IN FIELD.
- THE CONTRACTOR SHALL MAINTAIN A SET OF ACCEPTED CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF PORT ORCHARD PRIOR TO COMMENCING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TRAFFIC CONTROL AT ALL TIMES DURING CONSTRUCTION ALONGSIDE OR WITHIN ALL PUBLIC ROADWAYS. TRAFFIC FLOW ON EXISTING PUBLIC ROADWAYS SHALL BE MAINTAINED AT ALL TIMES, UNLESS PERMISSION IS OBTAINED FROM THE CITY FOR ROAD CLOSURE AND/OR DETOURS.

TEMPORARY & PERMANENT HYDROSEEDING

- ALL AREAS CLEARED OR OTHERWISE DISTURBED SHALL BE APPROPRIATELY STABILIZED IN ACCORDANCE WITH THE NOTES & DETAILS SPECIFIED HEREWITH, AND THE TIMES SPECIFIED BY SECTION 8-01.3 OF THE CURRENT EDITION OF THE W.S.D.O.T. STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL.
- PERMANENT HYDROSEEDING - IN AREAS NOT INCLUDED WITHIN THE PROJECT BOUNDARY OR NOT INCLUDED IN THE PROPOSED LANDSCAPE PLAN SHALL ADHERE TO THE FOLLOWING SPECS:
MINIMUM 80 LBS./ACRE MIXTURE OF:
15% KENTUCKY BLUEGRASS
15% REDTOP
30% PERENNIAL RYE
15% CHEWING FESCUE
FERTILIZER - 400 LBS./ACRE OF 10-20-20
MULCH - 2000 LBS./ACRE
- TEMPORARY HYDROSEEDING - IN ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL RECEIVE PERMANENT LANDSCAPING SHALL BE SEED WITH TEMPORARY EROSION CONTROL SEED MIXTURE AS REQUIRED TO PRODUCE A SUITABLE TEMPORARY GROUND COVER.
APPLY AT A RATE OF 120 LBS./ACRE:
10% REDTOP (AGROSTIS ABLE)
40% ANNUAL RYE (LOLIUM MULIFLORUM)
40% CHEWING FESCUE (FESTUCA REBRA COMMUTATA) (JAMESTOWN, BANNER, SHADOW OR KOKET)
10% WHITE DUTCH CLOVER (TRIFOLIUM)

NOTE

THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

CALL 48 HOURS BEFORE YOU DIG 811

MINIMUM EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

- STABILIZATION AND SEDIMENT TRAPPING. ALL EXPOSED AND UNWORKED SOILS, INCLUDING SOIL STOCKPILES, SHALL BE STABILIZED BY SUITABLE APPLICATION OF BMP'S WHICH PROTECT SOIL FROM THE EROSIIVE FORCES OF RAINDROP IMPACT AND FLOWING WATER. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO VEGETATIVE ESTABLISHMENT, MULCHING, PLASTIC COVERING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED. FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS.
- AT ALL TIMES OF THE YEAR, THE CONTRACTOR SHALL HAVE SUFFICIENT MATERIALS, EQUIPMENT AND LABOR ON-SITE TO STABILIZE AND PREVENT EROSION FROM ALL DENIED AREAS WITHIN 12-HOURS AS SITE AND WEATHER CONDITIONS DICTATE.
- FROM OCTOBER 1ST TO APRIL 30TH, THE PROJECT ENGINEER SHALL VISIT THE DEVELOPMENT SITE A MINIMUM OF ONCE PER WEEK FOR THE PURPOSE OF INSPECTING THE EROSION AND SEDIMENTATION CONTROL FACILITIES, REVIEWING THE PROGRESS OF CONSTRUCTION, AND VERIFYING THE EFFECTIVENESS OF THE EROSION CONTROL MEASURES BEING UNDERTAKEN. THE PROJECT ENGINEER SHALL IMMEDIATELY INFORM THE CITY OF ANY PROBLEMS OBSERVED DURING SAID SITE VISITS, AS WELL AS ANY RECOMMENDED CHANGES IN THE EROSION CONTROL MEASURES TO BE UNDERTAKEN. WHEN REQUESTED BY THE CITY, THE PROJECT ENGINEER SHALL PROVIDE THE CITY WITH WRITTEN RECORDS OF SAID WEEKLY SITE VISITS, INCLUDING DATES OF VISITS AND NOTED SITE OBSERVATIONS.
- IN THE EVENT THAT THE GROUND ON A PROJECT SITE IS LEFT BARE AFTER SEPTEMBER 30TH, THE CITY MAY ISSUE A STOP WORK ORDER FOR THE ENTIRE PROJECT UNTIL SATISFACTORY CONTROLS ARE PROVIDED. IN ADDITION, THE OWNER WILL BE SUBJECT TO THE PENALTIES PROVIDED IN SECTION 10 AND SECTION 11 OF THE CITY OF PORT ORCHARD STORMWATER ORDINANCE.
- IN THE EVENT THAT GROUND ON A PROJECT SITE IS LEFT BARE AFTER SEPTEMBER 30TH, AND THE CITY IS UNSUCCESSFUL IN CONTACTING THE OWNER OR HIS/HER DESIGNATED EMERGENCY CONTACT PERSON, THE CITY MAY ENTER THE PROJECT SITE AND INSTALL TEMPORARY GROUND COVER MEASURES AND BILL THE OWNER FOR ALL EXPENSES INCURRED BY THE CITY. THESE COSTS WILL BE IN ADDITION TO ANY MONETARY PENALTIES LEVIED AGAINST THE OWNER.
- DELINEATION OF CLEARING AND EASEMENT LIMITS, CLEARING LIMITS, SETBACKS, BUFFERS AND SENSITIVE OR CRITICAL AREAS SUCH AS STEEP SLOPES, WETLANDS AND RIPARIAN CORRIDORS SHALL BE CLEARLY MARKED IN THE FIELD AND INSPECTED BY CITY PRIOR TO COMMENCEMENT OF LAND CLEARING ACTIVITIES
- PROTECTION OF ADJACENT PROPERTIES. ADJACENT PROPERTIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION BY APPROPRIATE USE OF VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES OR MULCHING, OR BY A COMBINATION OF THESE MEASURES AND OTHER APPROPRIATE BMP'S.
- TIMING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES. SEDIMENT PONDS AND TRAPS, PERMEER DIKES, SEDIMENT BARRIERS AND OTHER BMP'S INTENDED TO TRAP SEDIMENT ON-SITE SHALL BE CONSTRUCTED AS A FIRST STEP IN GRADING. THIS BMP'S SHALL BE FUNCTIONAL BEFORE LAND DISTURBING ACTIVITIES TAKE PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS SHALL BE STABILIZED ACCORDING TO THE TIMING INDICATED IN ITEM (1) ABOVE.
- SLOPE STABILIZATION. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. ROUGHENED SOIL SURFACES ARE PREFERRED TO SMOOTH SURFACES. INTERCEPTORS SHOULD BE CONSTRUCTED AT THE TOP OF LONG, STEEP SLOPES WHICH HAVE SIGNIFICANT AREAS ABOVE THAT CONTRIBUTE RUNOFF. CONCENTRATED RUNOFF SHOULD NOT BE ALLOWED TO FLOW DOWN THE FACE OF A CUT OR FILL SLOPE UNLESS CONTAINED WITHIN AN ADEQUATE CHANNEL OR PIPE SLOPE DRAIN. WHEREVER A SLOPE FACE CROSSES A WATER SEEPAGE PLANE, ADEQUATE DRAINAGE OR OTHER PRO-SECTION SHOULD BE PROVIDED. IN ADDITION, SLOPES SHOULD BE STABILIZED IN ACCORDANCE WITH ITEM (1) ABOVE.
- CONTROLLING OFF-SITE EROSION. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM THE DEVELOPMENT SITE BY THE IMPLEMENTATION OF APPROPRIATE BMP'S TO MINIMIZE ADVERSE DOWNSTREAM IMPACTS.

CONSTRUCTION SEQUENCE

- APPLY FOR AND PICK UP ANY REQUIRED ROAD APPROACH, OR RIGHT OF WAY PERMITS FROM THE CITY OF PORT ORCHARD.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S).
- CONSTRUCT FILTER FENCE BARRIERS.
- CONSTRUCT SEDIMENTATION BASINS AND DISCHARGE PIPES.
- CONSTRUCT RUNOFF INTERCEPTION AND DIVERSION DITCHES.
- CLEAR AND GRADE THE MINIMUM SITE AREA REQUIRED FOR CONSTRUCTION OF THE VARIOUS PHASES OF WORK.
- PROVIDE TEMPORARY HYDROSEEDING OR OTHER SOURCE CONTROL STABILIZATION MEASURES ON ALL DISTURBED SOILS.
- MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL FACILITIES TO PROVIDE THE REQUIRED PROTECTION OF DOWNSTREAM WATER QUALITY.
- PROVIDE PERMANENT SITE STABILIZATION.
- EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED BY THE CITY OF PORT ORCHARD.

INSPECTION SCHEDULE

- THE CONTRACTOR SHALL NOTIFY THE CITY OF PORT ORCHARD TO ARRANGE FOR INSPECTION OF THE VARIOUS PHASES OF WORK CHECKED BELOW. ALL INSPECTIONS SHALL BE COMPLETED PRIOR TO PROCEEDING WITH THE NEXT PHASE OF WORK.
 LOCATION OF THE ROAD APPROACH
 CLEARING LIMITS
 IMPLEMENTATION OF THE VARIOUS PHASES OF THE EROSION AND SEDIMENTATION CONTROL PLAN
 PLACEMENT OF DRAINAGE STRUCTURES PRIOR TO BACK FILLING, INCLUDING POND EMBANKMENTS
 PRIOR TO PLACEMENT OF THE DETENTION OUTLET CONTROL STRUCTURE
 INSPECTION OF PREPARED SUB-GRADE
 INSPECTION OF GRAVEL BASE PLACEMENT
 INSPECTION OF FINE-GRADING PRIOR TO PAVING
 INSPECTION OF PAWING OPERATIONS
 FINAL INSPECTION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK PERFORMED AND SHALL ENSURE THAT CONSTRUCTION IS ACCEPTABLE TO THE CITY OF PORT ORCHARD.
- IF INSPECTION IS NOT CALLED FOR PRIOR TO COMPLETION OF ANY ITEM OF WORK SO DESIGNATED, SPECIAL DESTRUCTIVE AND/OR NON-DESTRUCTIVE TESTING PROCEDURES MAY BE REQUIRED TO ENSURE THE ACCEPTABILITY OF THE WORK. IF SUCH PROCEDURES ARE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TESTING AND/OR RESTORATION OF THE WORK.

T. E. S. C. MAINTENANCE REQUIREMENTS

- EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED AFTER EACH STORM EVENT AND DAILY DURING PROLONGED RAINFALL.
- NECESSARY REPAIRS OR REPLACEMENT OF FACILITIES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE MAXIMUM POTENTIAL DEPTH.
- SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE ESC FACILITIES ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE MAINTAINED BY:

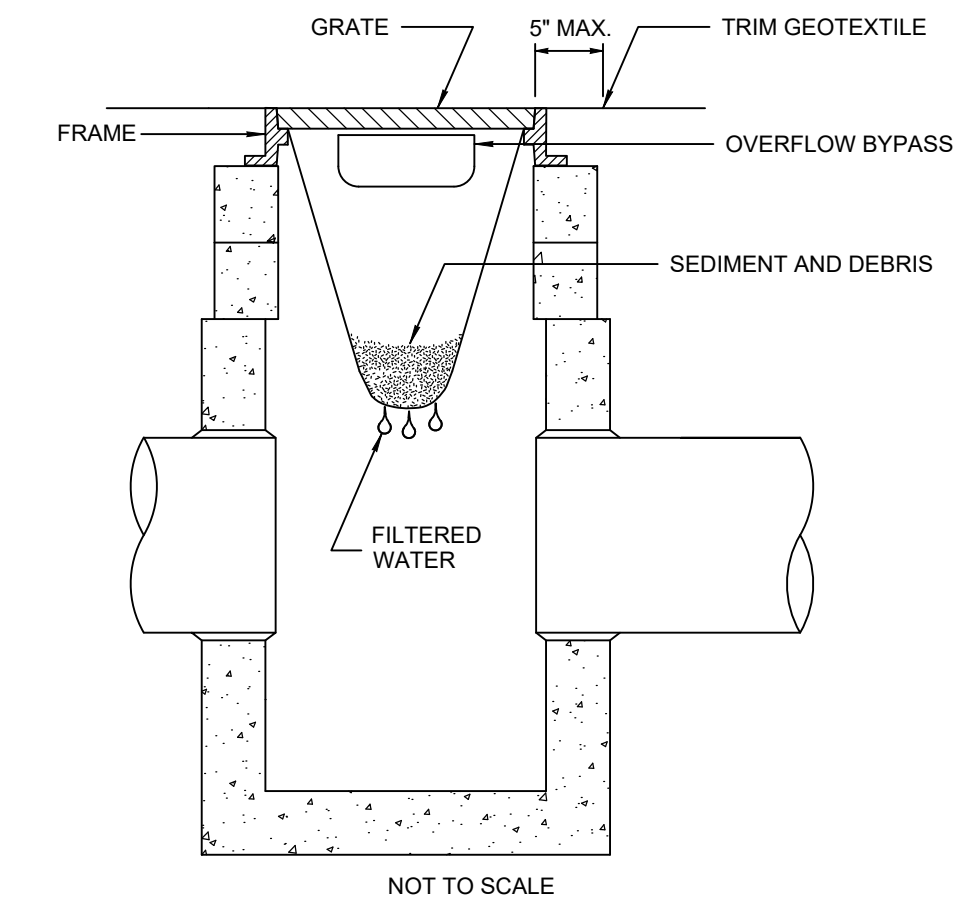
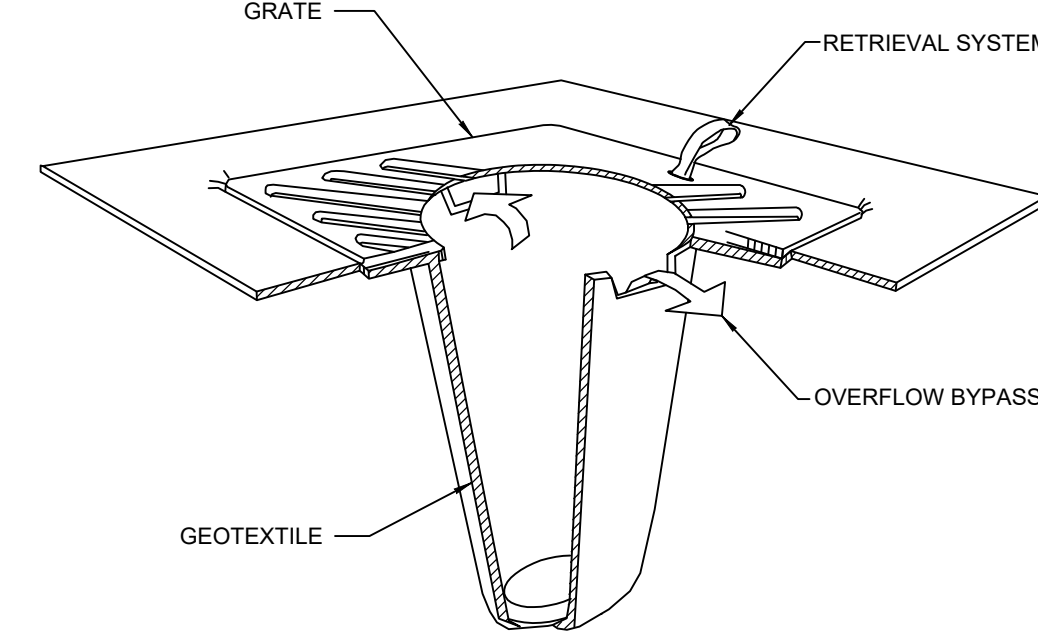
EMERGENCY PHONE NUMBER _____

THE OWNER'S REPRESENTATIVE SHALL BE: _____

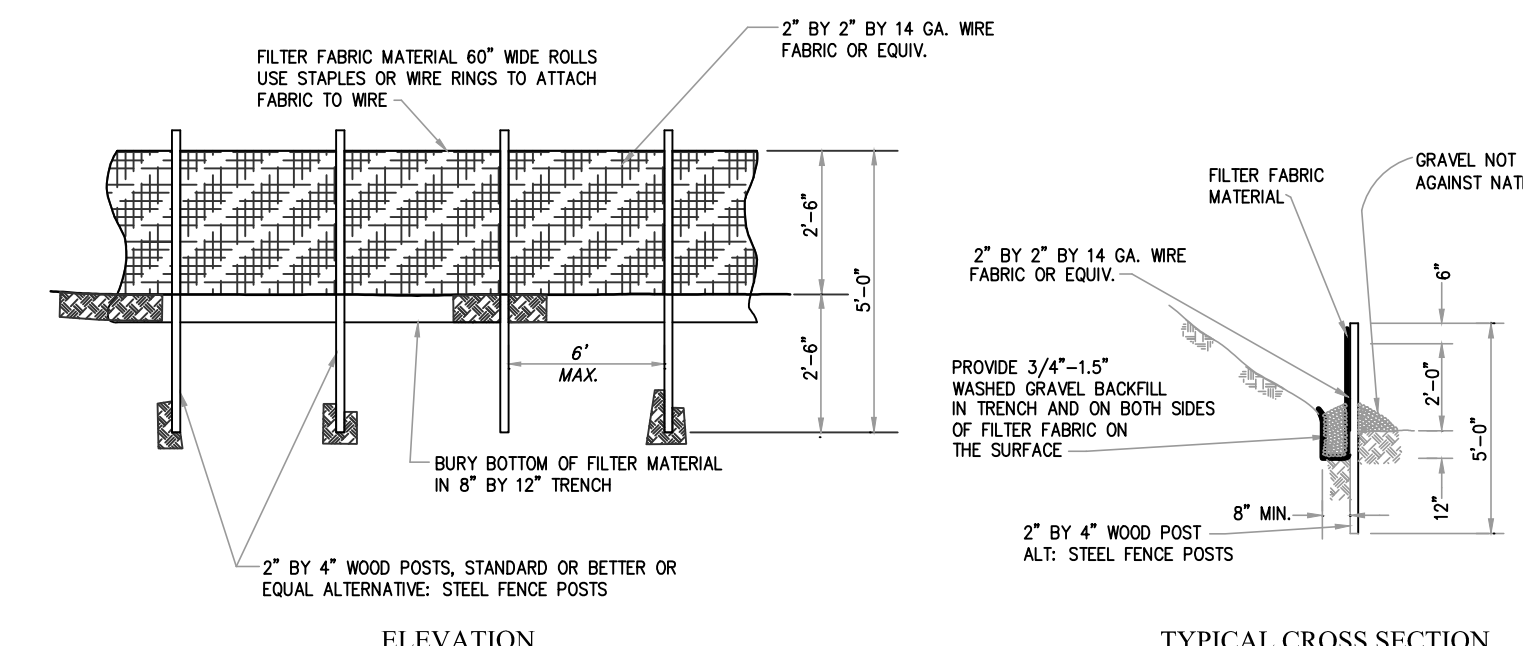
EMERGENCY PHONE NUMBER _____

- THE LOCATIONS OF EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT THE "UNDERGROUND LOCATE" CENTER AT PH: 1-800-424-5555, AND NON-SUBSCRIBING INDIVIDUAL UTILITY COMPANIES 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF EXISTING UTILITIES FROM DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.
- ROCKERIES OR OTHER RETAINING FACILITIES EXCEEDING 4 FT. IN HEIGHT REQUIRE A SEPARATE PERMIT FROM CITY OF PORT ORCHARD BUILDING DEPARTMENT.
- A "FORESTRY PRACTICES" PERMIT MAY BE REQUIRED PRIOR TO CLEARING OF THE SITE. CONTACT CITY OF PORT ORCHARD DEPARTMENT OF COMMUNITY DEVELOPMENT FOR FURTHER INFORMATION.

- PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).
- SIZE THE BELOW GRATE INLET DEVICE (BGID) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
- THE BGID SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
- THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BGID WITHOUT SPILLING THE COLLECTED MATERIAL.



INLET PROTECTION DETAIL
NOT TO SCALE



FILTER FABRIC FENCE
NOT TO SCALE (BMP E3.10)

REVISIONS				BY	DATE
NO.	DATE	BY	DESCRIPTION	DESIGNED	
				DRAWN	
				CHECKED	
				APPROVED	
				ACCEPTED	

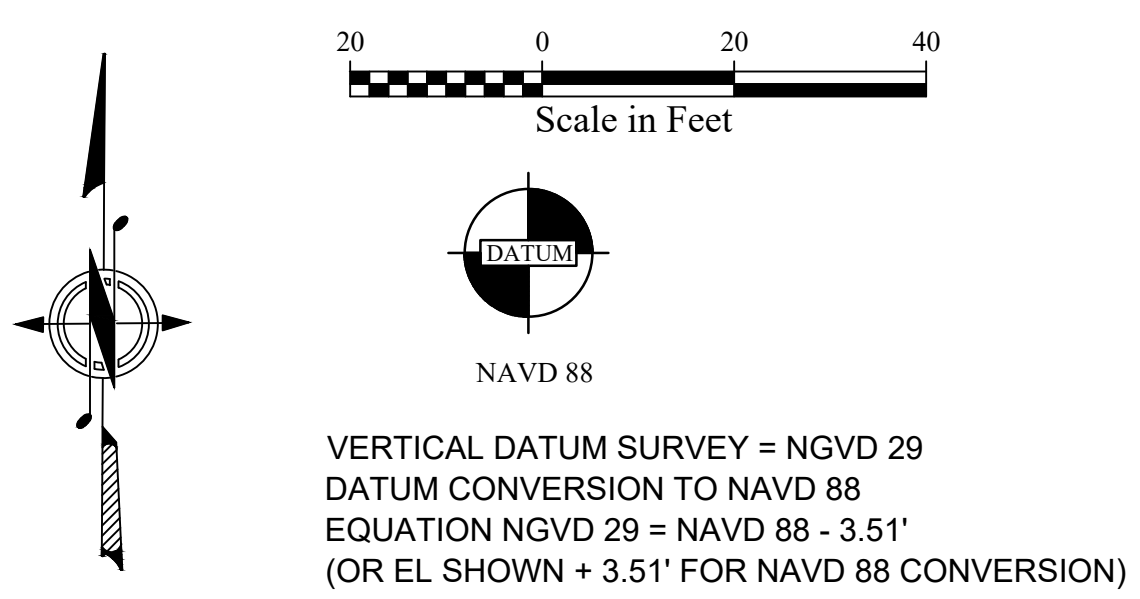
N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY LOTS 2-6 (L.A.D.P.) T.E.S.C. NOTES & DETAILS
Portion of the Southwest Quarter of the Northwest Quarter
Section 1, Township 23 North, Range 1 East, W.M.
in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
ATTN: TONY WILLIAMS
PO BOX 111
FOX ISLAND, WA 98333
253-381-0252

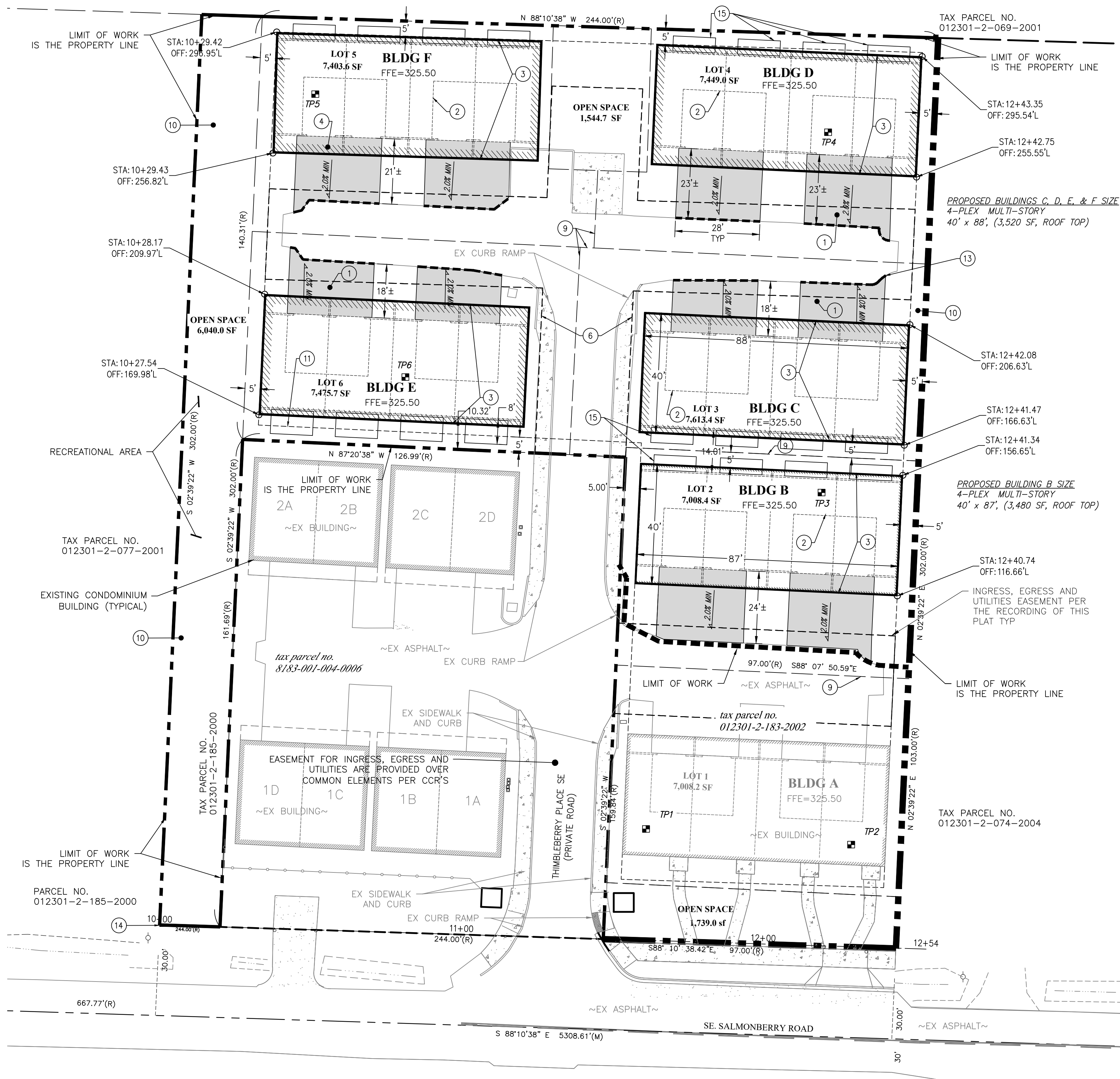
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DATE: 2021.09.13
DRAWING NUMBER
11407
SHEET C2.2



Scale: 1"= 20'

SITE SCHEDULE

- ① PROPOSED ASPHALT ROAD (SECTION WITHIN PROPERTY BOUNDARY)
- ② GARAGE OUTLINE (TYP)
- ③ FLOOR ABOVE OUTLINE (TYP)
- ④ PARKING SPACE (TYP)
- ⑤ PROPOSED BUILDING OUTLINE
- ⑥ EXISTING UTILITY AND ACCESS EASEMENT
- ⑦ PARKING SPACE IN FRONT OF BUILDING (TYP)
- ⑧ NOT USED
- ⑨ LOT LINE
- ⑩ LANDSCAPING (TYP) SEE LANDSCAPING PLANS
- ⑪ 8' WIDE WOOD DECK
- ⑫ START SITE STATIONING 10+00 AT SOUTH WEST PROPERTY CORNER OF PARCEL # 012301-2-185-2000
- ⑬ SAWCUT ~28 LF FOR SMOOTH TRANSITION
- ⑭ BEGIN SITE STATIONING 10+00 AT THE SOUTHWEST PROPERTY CORNER PROJECTED EAST ALONG PROPERTY LINE
- ⑮ 5' x 14' WOOD DECK, ALL UNIT (TYP)



REVISIONS			
NO.	DATE	BY	DESCRIPTION

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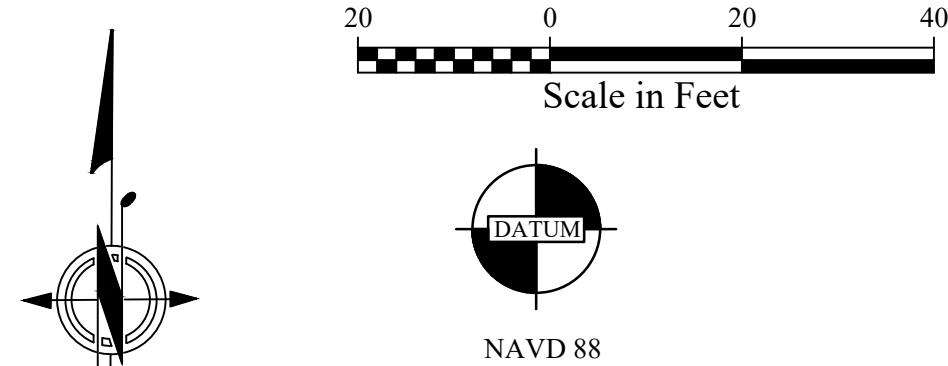
N.L. Olson & Associates, Inc.
 Engineering, Planning and Surveying
 (360) 895-2350 or (360) 876-2284
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY BINDING SITE PLAN & L.D.A.P. LOTS 2-6
SITE PLAN
 Portion of the Southwest Quarter of the Northwest Quarter
 Section 1, Township 23 North, Range 1 East, W.M.
 in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
 ATTN: TONY WILLIAMS
 PO BOX 111
 FOX ISLAND, WA 98333
 253-381-0252

SCALE: 1"= 20'
 DATE: 2021.09.13
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11407
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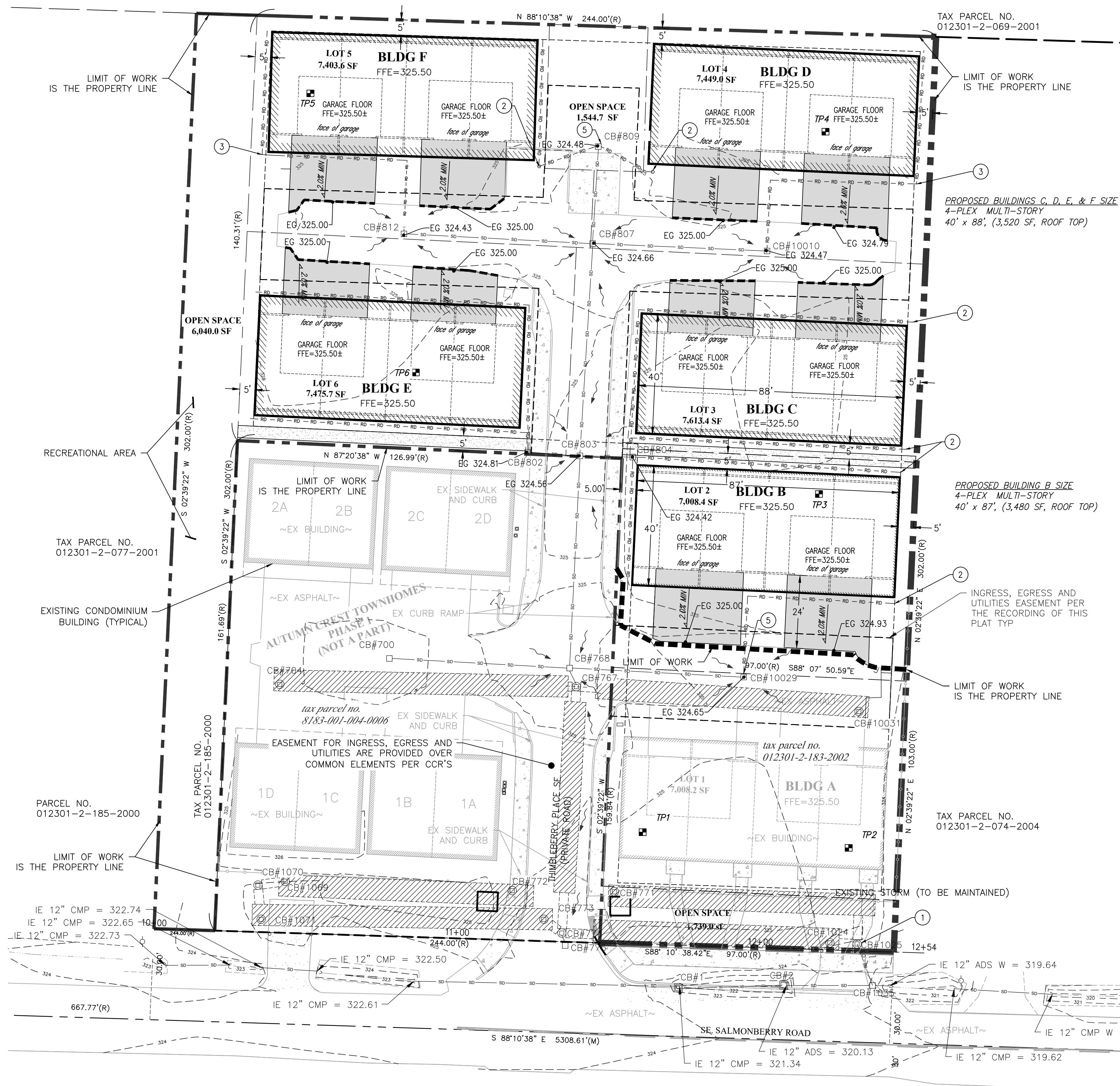


VERTICAL DATUM SURVEY = NGVD 29
 DATUM CONVERSION TO NAVD 88
 EQUATION NGVD 29 = NAVD 88 - 3.51'
 (OR EL SHOWN + 3.51' FOR NAVD 88 CONVERSION)

Scale: 1" = 20'

STORM TABLE

<p>CB#700 TYPE 1 RIM = 324.41 IE 12" ADS E = 320.21</p> <p>CB#704 TYPE 2 RIM (SOLID LID) = 325.11 IE 7' CMP E = 315.66</p> <p>CB#767 TYPE 2 RIM(SOLID LID) = 324.77 IE 12" ADS N = 320.07 IE 36" CMP E = 319.97 IE 36" CMP S = 319.87 IE 36" CMP W = 319.77</p> <p>CB#768 TYPE 1 RIM = 324.48 IE 12" ADS N = 320.23 IE 12" ADS E,W,S = 320.18</p> <p>CB#771 TYPE 2 RIM (SOLID LID) = 324.94 IE 7' CMP E, W = 316.09 IE N IN 6" PVC = ~322.00</p> <p>CB#772 TYPE 2 RIM (SOLID LID) = 325.34 IE 7' CMP E, W = 316.04</p> <p>CB#773 TYPE 2 RIM (SOLID LID) = 324.67 IE 36" CMP SE = 319.87 IE 7' CMP E, W = 315.97</p> <p>CB#774 TYPE 2 RIM (SOLID LID) = 324.74 IE 12" ADS S = 319.94 IE 36" CMP E = 319.89 IE 36" CMP E, NW = 319.69</p> <p>CB#775 TYPE 1 RIM = 324.44 IE 12" ADS N = 320.64</p> <p>CB#802 TYPE 1 RIM = 324.81 IE 4" PVC W 323.26 IE 12" ADS E = 322.31 NEW IE 4" PVC N = 323.26 (RD)</p> <p>CB#803 TYPE 1 RIM = 324.55 IE 12" ADS N,E,W = 321.70 IE 12" ADS S = 321.75</p>	<p>CB#804 TYPE 1 RIM = 324.42 IE 12" ADS W = 321.92 NEW IE 12" ADS N,E = 321.70 (RD)</p> <p>CB#807 TYPE 1 RIM = 324.57 IE 12" ADS N = 321.77 IE 12" ADS E,W = 321.72 IE 12" ADS S = 321.67</p> <p>CB#809 TYPE 1 RIM = 324.46 IE 12" ADS S = 321.76 NEW IE 6" PVC E,W = 321.76 (RD)</p> <p>CB#812 TYPE 1 RIM = 324.40 IE 12" ADS E = 321.65 NEW IE 6" PVC N = 321.65 (RD)</p> <p>CB#1024 TYPE 2 RIM (SOLID LID) = 324.93 IE 7' CMP E, W = 316.13</p> <p>CB#1025 TYPE 2 (CONTROL STRUCTURE) RIM (SOLID LID) = 324.95 IE 36" CMP N = 320.10 IE 36" CMP W = 319.95 IE 12" ADS SE = 319.95 TOP OVERFLOW = 323.20 IE E IN 6" PVC = 322.00</p> <p>CB#10031 TYPE 2 RIM (SOLID LID) = 324.60 IE 7' CMP W = 315.70</p> <p>CB#1035 TYPE 1 RIM = 321.95 IE 12" ADS N, W, = 319.85 IE 12" ADS E = 316.70</p> <p>CB#1069 TYPE 2 RIM (SOLID LID) = 325.99 IE 36" CMP W = 319.84 IE 7' CMP E = 315.99</p> <p>CB#1070 TYPE 2 RIM (SOLID LID) = 326.01 IE 36" CMP E, S = 320.01</p> <p>CB#1071 TYPE 2 RIM (SOLID LID) = 325.48 IE 36" CMP N = (UNABLE TO MEASURE) IE 7' CMP E = 316.08</p> <p>CB#10010 TYPE 1 RIM = 324.45 IE 12" ADS W = 321.85 NEW IE 12" ADS N = 321.85 (RD)</p> <p>CB#10029 TYPE 1 RIM = 324.65 IE 12" ADS W = 320.20 NEW IE 6" PVC = 320.20 (RD)</p> <p>CB#1 TYPE 1, WITH STANDARD GRATE RIM = 324.00 IE 12" CPEP W, E = 321.34</p> <p>CB#2 TYPE 1, WITH CURB INLET FL = 323.08 TC = 323.58 IE 12" CPEP W, E, = 320.13</p>
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STORM SCHEDULE

- ① EXISTING CATCH BASIN #1025 DETENTION SYSTEM CONTROL STRUCTURE RISER TO BE REVISED. SEE DETAIL SHEET C4.1
- ② ROOF DRAINAGE THAT DOES NOT DISCHARGE TO ROAD TO BE TIGHT-LINED TO NEAREST CONVENIENT CATCH BASIN
- ③ 6" PVC, S=1.0 % MIN ROOF DRAIN W/CO (TYP)
- ④ EXISTING CATCH BASIN (TYP)
- ⑤ EXISTING CATCH BASIN, MAY BE USED AS INLET, STORM SCHEDULE FOR REVISION

ROOF DRAINAGE NOTE:
 ROOF RUNOFF TO DRAIN TO SURFACE DRAIN INLET OR TIGHTLINE TO NEAREST CB

REVISIONS			
NO.	DATE	BY	DESCRIPTION

N.L. Olson & Associates, Inc.
 Engineering, Planning and Surveying
 (360) 895-2350 or (360) 876-2284
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



**THIMBLEBERRY LOTS 2-6 (L.A.D.P.)
 STORM AND GRADING PLAN**
 Portion of the Southwest Quarter of the Northwest Quarter
 Section 1, Township 23 North, Range 1 East, W.M.
 in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
 ATTN: TONY WILLIAMS
 PO BOX 111
 FOX ISLAND, WA 98333
 253-381-0252

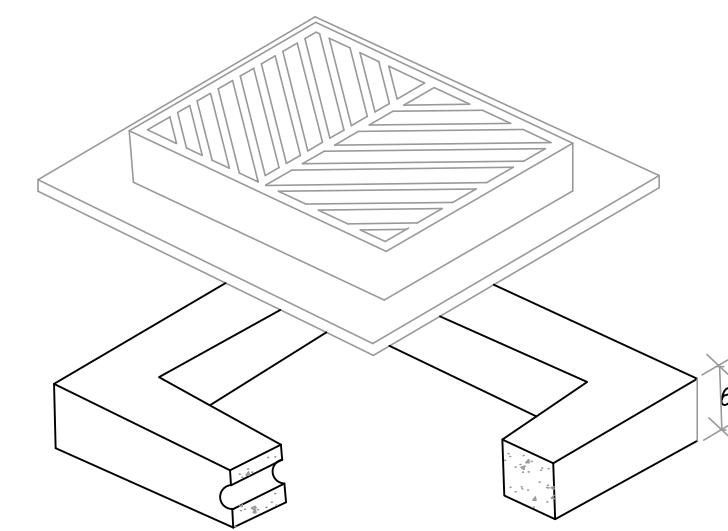
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 DATE: 2021.09.13
 DRAWING NUMBER
11407
 SHEET C4.0

STORM AND GRADING MATERIAL SPECIFICATIONS

- CATCH BASIN**
TYPE I, W.S.D.O.T. STANDARD PLAN B-5.20-00
TYPE II, W.S.D.O.T. STANDARD PLAN B-5.40-00
TYPE III, W.S.D.O.T. STANDARD PLAN B-10.20-00
- FRAME & GRATE:**
VANED GRATE, W.S.D.O.T. STANDARD PLAN B-30.30-00 (AS NOTED ON PLANS).
STANDARD FRAME AND GRATE, W.S.D.O.T. STANDARD B-30.50-00
CURB INLET WSDOT STANDARD PLAN B-25.20-00
BEEHIVE GRATE OLYMPIC FOUNDRY, INC. PART NO. 60BH (OR EQ)
- SOLID METAL COVER:**
3 BOLT LOCKING TYPE, OLYMPIC FOUNDRY
TYPE MH 30D/T OR EQUAL FOR TYPE II CATCH BASINS.
OLYMPIC FOUNDRY TYPE SM 60S OR W.S.D.O.T. STANDARD PLAN B-30.70-01 (OR EQUAL) FOR TYPE I CATCH BASINS W.S.D.O.T. STD PLAN B-30.20-01
- STORM SEWER PIPE**
*CORRUGATED METAL PIPE n=0.012 (CMP) PER W.S.D.O.T. 9-05.9
*CONCRETE PIPE PER W.S.D.O.T. 9-05.7(1) & 9-05.7(2) n=0.012
*CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE), ADS N-12 OR HANCOR HI-Q (ASHTO M294 TYPE S) n=0.012
- DOWN SPOUT TIGHTLINE:**
ADS (OR EQUAL)
- PIPE BEDDING**
W.S.D.O.T. 9-03.12(3) GRAVEL BACKFILL FOR PIPE BEDDING.
- INITIAL BACKFILL:**
NATIVE MATERIAL OBTAINED FROM EXCAVATION PER W.S.D.O.T. 7-04.3(3)
- REMAINING BACKFILL:**
NATIVE MATERIAL OBTAINED FROM EXCAVATION PER W.S.D.O.T. 2-09.3(1)E.
- SPALLS:**
W.S.D.O.T. 9-13.1, LOOSE RIPRAP IN SIZES RANGING FROM 3" TO 1/3 CUBIC FOOT.
- PAVEMENT SECTION:**
HOT MIX ASPHALT, WSDOT 5-04
TOP COURSE, W.S.D.O.T. 9-03.9(3)
BASE COURSE, W.S.D.O.T. 9-03.10

ROAD & STORM DRAINAGE CONSTRUCTION INSPECTION REQUIREMENTS AND SCHEDULES

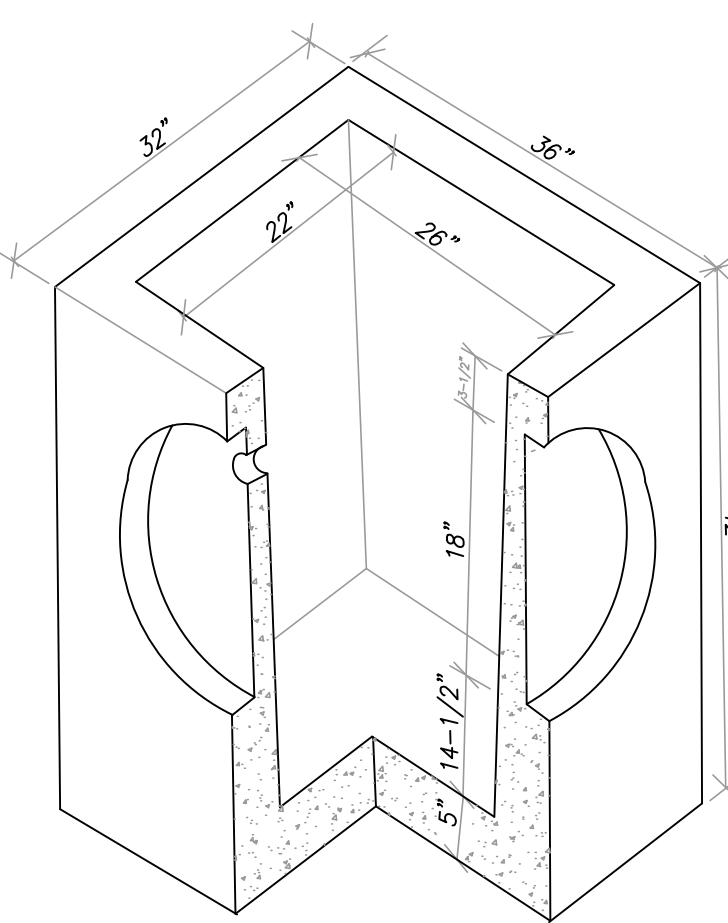
- THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER TO ARRANGE INSPECTION SCHEDULES FOR THOSE PHASES OF WORK CHECKED BELOW. INSPECTION SCHEDULES SHALL BE ARRANGED PRIOR TO PROCEEDING TO THE NEXT PHASE OF WORK. INSPECTIONS IN ADDITION TO THOSE INDICATED MAY BE REQUIRED BY THE CITY. THE CONTRACTOR SHALL VERIFY THE INSPECTIONS REQUIRED WITH THE CITY AND SHALL ARRANGE INSPECTION SCHEDULES BY CONTACTING THE CITY OF PORT ORCHARD ENGINEER'S OFFICE AT (360) 876-4991.
- IF ADEQUATE INSPECTION IS NOT CALLED FOR BEFORE COMPLETION OF THE PAVEMENT CONSTRUCTION, IT MAY BE NECESSARY FOR CORE DRILLING AND TESTING TO BE PERFORMED TO ASSURE AN ACCEPTABLE QUALITY OF ROADWAY. WHEN CORE DRILLING IS FOUND TO BE NECESSARY, THE CONTRACTOR WILL BE BILLED AND HELD RESPONSIBLE FOR ALL COSTS INCURRED.



TYPE I CATCH BASIN
NO SCALE

TOP UNIT.
SHOWN WITH FRAME CAST IN IRON CASTING-OLYMPIC FDY. #5435A
STEEL CASTING-OLYMPIC FDY. #5434, IWS
FRAME MAY BE PLACED DIRECTLY ON BASE OR EXTENSION.

"S" EXTENSION UNITS.
AVAILABLE IN 6", 12" OR 24" HEIGHTS. USED TO ADJUST TO A MAXIMUM CATCH BASIN HEIGHTS OF 5'-0" FINISHED GRADE TO PIPE INVERT.



BASE SECTION.
THIS UNIT IS PROVIDED WITH KNOCKOUTS FOR 18" CONCRETE PIPE ON ALL FOUR SIDES.

SPECIFICATIONS
ALL UNITS ARE MANUFACTURED TO THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION AND THE APWA STANDARD PLAN B-1.

GRADING NOTES

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
- MAXIMUM SLOPE STEEPNESS SHALL BE 2:1 HORIZONTAL:VERTICAL FOR CUT AND FILL SLOPES.
- UNLESS OTHERWISE SPECIFIED, ALL EMBANKMENTS IN THE PLAN SET SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2-03.3(14)B OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENT COMPACTIONS SHALL CONFORM TO SECTION 2-03.3(14)C, METHOD B OF SAID STANDARD SPECIFICATION.
- EMBANKMENTS DESIGNED TO IMPOUND WATER SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER SECTION 2-03.3(14)C, METHOD C OF WSDOT STANDARD SPECIFICATIONS.
- ALL AREAS RECEIVING FILL MATERIAL SHALL BE PREPARED BY REMOVING VEGETATION, NONCOMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIAL, BY SCARIFYING THE SURFACE TO PROVIDE A BOND WITH THE NEW FILL, AND WHERE THE SLOPES ARE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL AND THE HEIGHT IS GREATER THAN 5 FT., BY BENCHING INTO SOUND COMPETENT MATERIAL AS DETERMINED BY A SOILS ENGINEER.

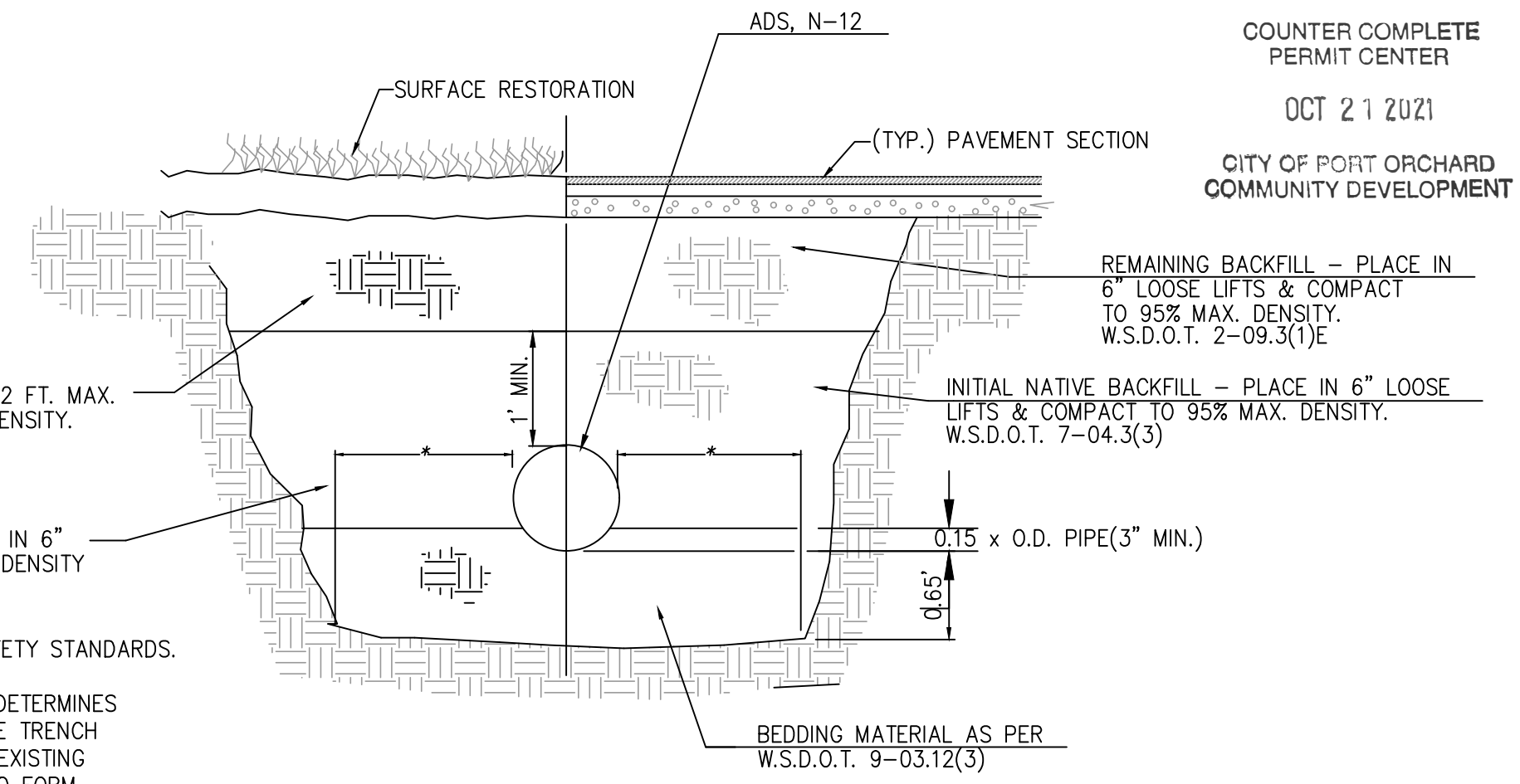
INSPECTION SCHEDULE

- ✓ 1. CLEARING LIMITS.
- ✓ 2. IMPLEMENTATION OF THE VARIOUS PHASES OF THE EROSION AND SEDIMENTATION CONTROL PLAN.
- ✓ 3. PLACEMENT OF THE DRAINAGE STRUCTURES PRIOR TO BACK FILLING, INCLUDING POND EMBANKMENTS.
- ✓ 4. PRIOR TO PLACEMENT OF THE DETENTION OUTLET CONTROL STRUCTURE (ORIFICE SIZE VERIFIED).
- ✓ 5. INSPECTION OF SUB-GRADE.
- ✓ 6. INSPECTION OF GRAVEL BASE PLACEMENT.
- ✓ 7. INSPECTION OF FINAL GRADING PRIOR TO PAVING.
- ✓ 8. INSPECTION OF PAVING OPERATIONS.
- ✓ 9. FINAL INSPECTION.

NOTE

THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

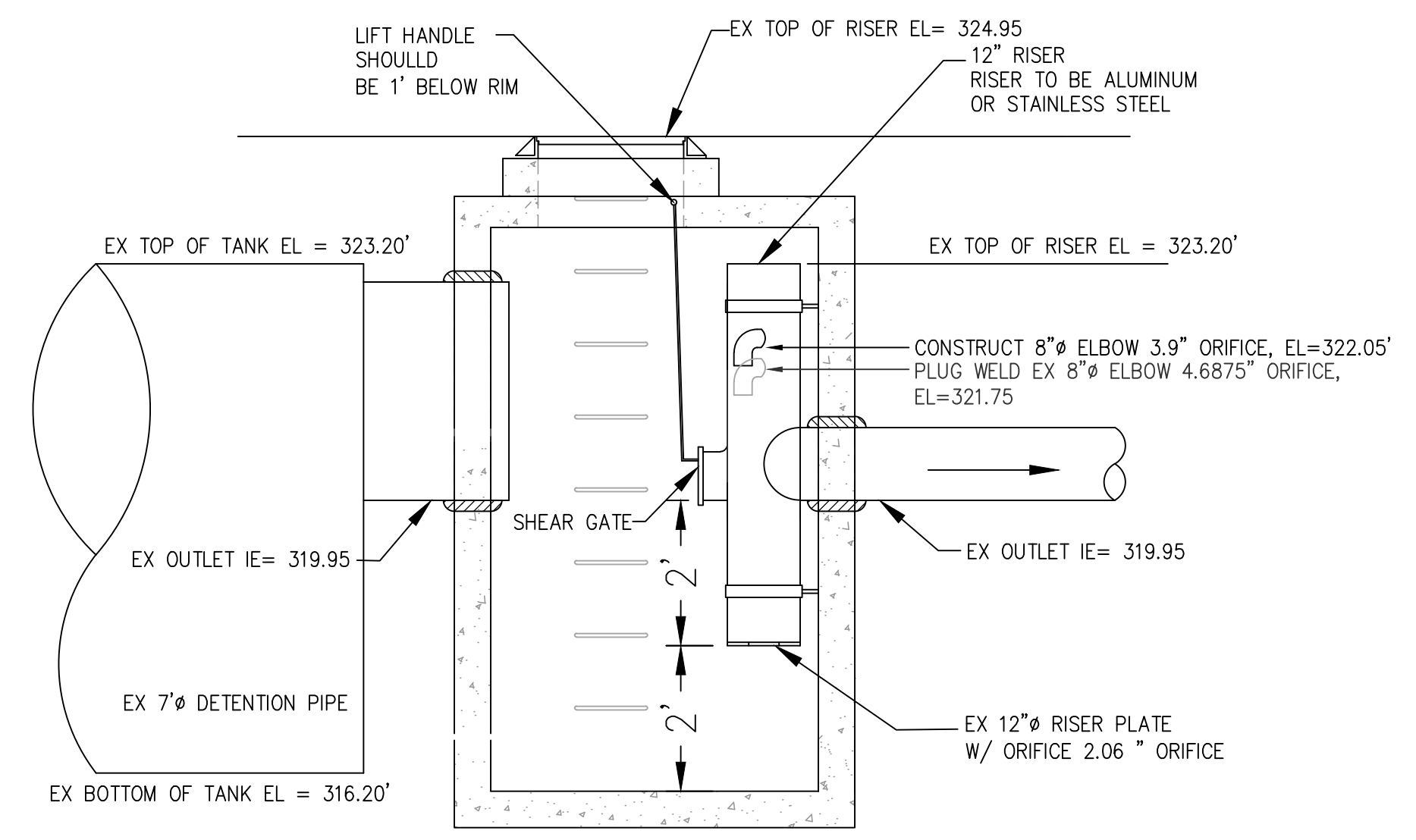
CALL 48 HOURS BEFORE YOU DIG 811



- NOTES:**
- THE CONTRACTOR SHALL COMPLY W/ W.I.S.H.A. SAFETY STANDARDS.
 - PIPE BEDDING MAY BE DELETED IF THE "ENGINEER" DETERMINES THAT THE MATERIAL EXISTING IN THE BOTTOM OF THE TRENCH IS SATISFACTORY FOR PIPE BEDDING, PROVIDED THE EXISTING MATERIAL IS LOOSENEED, REGRADED, & COMPACTED TO FORM A DENSE UNYIELDING BASE.
 - UNSUITABLE FOUNDATION MATERIAL BEING ROCK, UNYIELDING MATERIAL, OR SOFT MATERIAL SHALL BE REMOVED PRIOR TO PIPE INSTALLATION.

STORM TRENCH

(PER W.S.D.O.T. 7-02.3(1) NOT TO SCALE



DETENTION BARREL EXISTING CONTROL STRUCTURE CB#1025 RISER REVISION

SCALE 1"=2'

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE

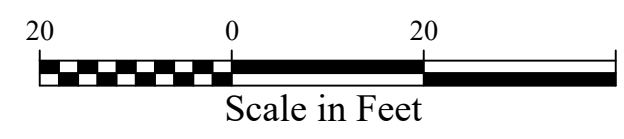
N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY LOTS 2 - 6 (L.D.A.P.)
STORM AND GRADING NOTES AND DETAILS
Portion of the Southwest Quarter of the Northwest Quarter
Section 1, Township 23 North, Range 1 East, W.M.
in Kitsap County, Washington

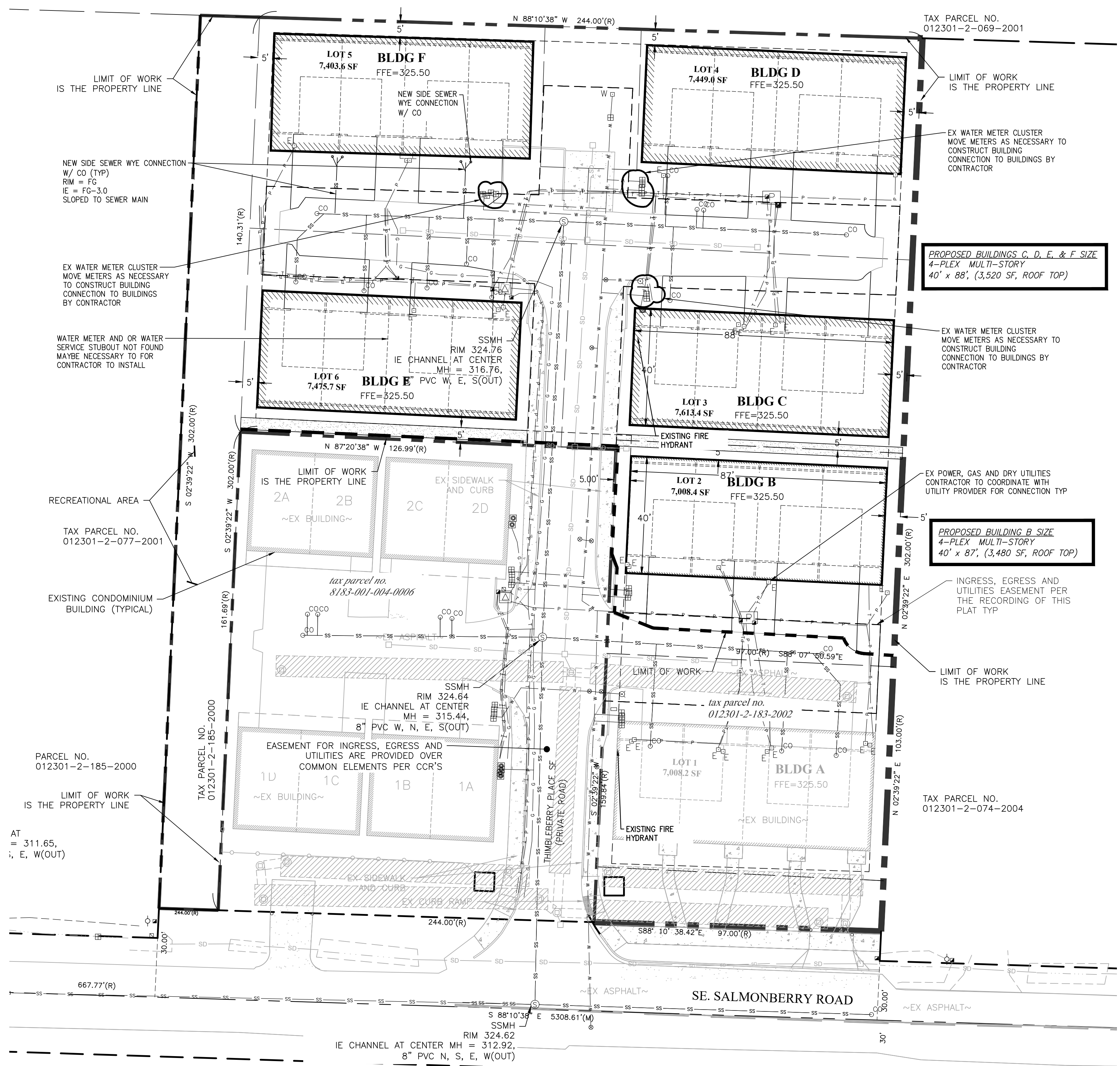
FOR: LA WILLIAMS CONSTRUCTION, LTD
ATTN: TONY WILLIAMS
PO BOX 111
FOX ISLAND, WA 98333
253-381-0252

SCALE: N.T.S.
DATE: 2021.09.13
DRAWING NUMBER
11407
SHEET C4.1



VERTICAL DATUM SURVEY = NGVD 29
 DATUM CONVERSION TO NAVD 88
 EQUATION NGVD 29 = NAVD 88 - 3.51'
 (OR EL SHOWN + 3.51' FOR NAVD 88 CONVERSION)

Scale: 1"= 20'



PROPOSED BUILDINGS C, D, E, & F SIZE
 4-PLEX MULTI-STORY
 40' x 88', (3,520 SF, ROOF TOP)

PROPOSED BUILDING B SIZE
 4-PLEX MULTI-STORY
 40' x 87', (3,480 SF, ROOF TOP)

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	BY	DATE

N.L. Olson & Associates, Inc.
 Engineering, Planning and Surveying
 (360) 895-2350 or (360) 876-2284
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY LOTS 2 - 6 (L.A.D.P.)
UTILITY PLAN
 Portion of the Southwest Quarter of the Northwest Quarter
 Section 1, Township 23 North, Range 1 East, W.M.
 in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
 ATTN: TONY WILLIAMS
 PO BOX 111
 FOX ISLAND, WA 98333
 253-381-0252

SCALE: 1"= 20'
 DATE: 2021.09.13
 DRAWING NUMBER
11407
 SHEET C5.0

GENERAL WATER NOTES

- EXCEPT WHERE THE STANDARDS PROVIDE OTHERWISE, DESIGN DETAILS WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" PREPARED BY THE WASHINGTON STATE CHAPTER OF AMERICAN PUBLIC WORKS ASSOCIATION AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE WEST SOUND UTILITY DISTRICT STANDARDS.
- ALL PIPE SHALL BE DUCTILE IRON CL. 52 UNLESS OTHERWISE SHOWN.
- ALL PIPE AND FITTINGS NOT TO BE DISINFECTED IN PLACE SHALL BE SWABBED WITH 200 PPM CHLORINE SOLUTION PRIOR TO INSTALLATION.
- AFTER DISINFECTION OF THE WATERMAIN, DISPOSE OF CHLORINATED WATER BY DISCHARGING TO NEAREST OPERATING SANITARY SEWER.
- WATERMAIN SHUT-OFF SHALL BE COORDINATED WITH WEST SOUND UTILITY DISTRICT OPERATIONS CREW FOR PREFERRED TIMING DURING FLOW CONTROL CONDITIONS. (360-876-2545)
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. ACTUAL UTILITY LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- DEFLECT THE WATERMAIN ABOVE OR BELOW EXISTING UTILITIES AS REQUIRED TO MAINTAIN 3 FEET MINIMUM COVER AND 12 INCHES MINIMUM VERTICAL CLEARANCE BETWEEN UTILITIES UNLESS OTHERWISE SPECIFIED.
- THE WATERMAIN SHALL BE INSTALLED ONLY AFTER THE ROADWAY SUBGRADE IS BACKFILLED, GRADED AND COMPACTED IN CUT AND FILL AREAS.
- TRENCH BACKFILL AND SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
- ALL FITTINGS SHALL BE BLOCKED PER STANDARDS DETAIL UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ASSURE THE WORKERS' EXPOSURE TO ASBESTOS MATERIALS BE AT OR BELOW THE LIMIT PRESCRIBED IN WAC 296-62-07705. PER STATE STANDARDS/REQUIREMENTS.
- THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER. FLUSHING OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR CITY APPROVAL.
- BEFORE COMMENCEMENT OF TRENCHING, THE CONTRACTOR SHALL PROVIDE FILTER FABRIC FOR ALL DOWNHILL STORM DRAIN INLETS AND CATCH BASINS. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE CONDITION OF ALL FILTER FABRIC AND REPLACE AS NECESSARY.
- WHEN CROSSING A SANITARY SEWER OR FORCE MAIN THE WATER MAIN SHALL BE INSTALLED A MINIMUM OF TWO FEET ABOVE THE SEWER LINE WITH JOINTS A MINIMUM OF FIVE FEET FROM THE SEWER LINE ON EACH SIDE. CONTROLLED DENSITY FILL SHALL BE PLACED OVER THE SEWER LINE.

WATER SYSTEM SPECIFICATIONS

ALL WORK AND MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH THE DEVELOPER'S EXTENSION MANUAL AS PREPARED AND PROVIDED BY THE WEST SOUND UTILITY DISTRICT.

- ALL PIPE TO BE CLASS 52 DUCTILE IRON, UNLESS OTHERWISE INDICATED ON THE PLAN.
- ALL SERVICES TO BE WIDE STRAP SADDLES (ROMAC OR EQUAL)
- USE DEFLECTIONS AT PIPE JOINTS TO MAINTAIN ALIGNMENT IN CURVES AND JOGS.
- METER TO BE SUPPLIED AND INSTALLED BY DISTRICT.
- DOUBLE CHECK VALVE ASSEMBLIES TO BE INSTALLED BY CERTIFIED INSTALLER.

NOTE: WATER LINE TO BE INSTALLED WITH A MINIMUM OF 3'-0" COVER ACCORDING TO ROADWAY PROFILE.

NOTE

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CALL 48 HOURS BEFORE YOU DIG
811

PIPE SIZE	TEE/CAP OR PLUG		90 Degree BEND		45 Degree BEND		22.5 Degree BEND		11.25 Degree BEND				
	200	225	250	200	225	250	200	225	250	200	225	250	
4	4.80	1.8	2.0	2.3	2.6	2.9	3.2	1.4	1.6	1.7	0.7	0.8	0.9
6	6.90	3.7	4.2	4.7	5.3	5.9	6.6	2.9	3.2	3.6	1.5	1.6	1.8
8	9.00	6.4	7.2	8.0	9.1	10.2	11.4	4.9	5.5	6.2	2.5	2.8	3.1
12	13.20	13.7	15.4	17.1	19.4	21.8	24.2	10.5	11.8	13.1	5.3	6.0	6.7
16	17.40	23.8	26.8	29.7	33.6	37.8	42.0	18.2	20.5	22.7	9.3	10.4	11.6
18	19.50	29.9	33.6	37.3	42.2	47.5	52.8	22.9	25.7	28.6	11.7	13.1	14.6
24	25.80	52.3	58.8	65.3	73.9	83.2	92.4	40.0	45.0	50.0	20.4	22.9	25.5

THRUST BLOCKING

BEARING AREA REQUIRED IN SQUARE FEET

1. ALL CONCRETE BLOCKING SHALL BE POURED AGAINST DRY, UNDISTURBED SUBGRADE. TABLE IS BASED ON 2000 POUNDS PER SQUARE FOOT ALLOWABLE SOIL BEARING. WEAKER SOIL WILL REQUIRE INCREASED BEARING AREA. SEE SOIL BEARING LOAD CHART.

2. KEEP CONCRETE CLEAR OF JOINTS AND ACCESSORIES. USE FORMING AS NECESSARY.

3. HORIZONTAL ANCHOR BLOCKING CONFIGURATIONS FOR FITTINGS NOT SHOWN SHALL HAVE PRIOR APPROVAL.

4. THE SQUARE FOOT AREAS REQUIRED FOR BEARING ARE CALCULATED BY THE FOLLOWING FORMULA:

FORMULA AT TEE & CAP OR PLUG:

$T = \frac{P}{k}$ BEARING AREA REQUIRED IN SQUARE FEET

FORMULA AT ALL PIPE BENDS:

$T = \frac{P \times D \times \sin \frac{\Delta}{2}}{k}$ BEARING AREA REQUIRED IN SQUARE FEET

WHERE:

T = THRUST IN POUNDS
 P = TEST PRESSURE IN PSI
 A = CROSS-SECTIONAL AREA OF PIPE IN SQUARE INCHES
 k = ASSUMED 2000 PSI SOIL BEARING PRESSURE

5. WRAP FITTINGS WITH VISQUEEN PRIOR TO BLOCK POUR.

SAFE BEARING LOADS IN LBS./SQ. FT.

THE SAFE SOIL BEARING LOADS SHOWN BELOW ARE FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER PIPE EXCEEDS 3 FEET.

SOIL

MUCK, PEAT, ETC. 1,000
 SOFT CLAY SILT 2,000
 SAND, SANDY SILT 3,000
 SAND AND GRAVEL 4,000
 SAND AND GRAVEL CEMENTED W/CLAY 10,000
 HARD SHALE 10,000

IN MUCK OR PEAT, ALL THRUST SHALL BE RESTRAINED BY PILES OR THE RODS TO SOLID FOUNDATIONS OR BY REMOVAL OF MUCK OR PEAT AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUSTS.

West Sound Utility District Standard Water Details

Thrust Blocking

REVISION: FEBRUARY, 2008

UTILITY SEPARATION SECTION C1-2
REQUIRED SEPARATION BETWEEN WATER LINES AND SANITARY SEWERS PARALLEL CONSTRUCTION

UTILITY SEPARATION SECTION C1-3
REQUIRED SEPARATION BETWEEN WATER LINES AND SANITARY SEWERS UNUSUAL CONDITIONS PARALLEL CONSTRUCTION

West Sound Utility District Standard Water Details

Separation Standards

REVISION: FEBRUARY, 2008

BELOW GROUND

DOUBLE CHECK VALVE MEETING AWWA CROSS-CONNECTION STANDARDS

WITHIN PAVED SURFACE, TWO PRECAST CONCRETE VAULT 3'-8" X 2'-8" X 3'-6" UTILITY VAULT CO. MODEL NO. 233-LA WITH NO. 23-233P DIAMOND PLATE COVER OR EQUAL, OUTSIDE PAVED AREAS, TWO MID-STATES PLASTICS MODEL MSBFC 1730, GREEN COLOR.

CONCRETE METER VAULT EQUAL TO FOG-TITE #2

WATER METER

6" MIN. EXIST. GRADE

12"

6" MIN.

1-1/2" DRAIN ROCK

DOUBLE PURPOSE UNION (TYP. OF 2)

DRAIN TO DAYLIGHT

4" MIN.

PROPERTY LINE

CURB

EDGE OF PAVEMENT

FLOW

FLOW

West Sound Utility District Standard Water Details

Double Check Backflow Assembly

REVISION: FEBRUARY, 2008

SERVICE CONNECTION PROTOCOL

FOR EXISTING WATER SERVICES

PROCEDURE: PROVIDE AND INSTALL METER BOX ADJACENT TO EXISTING. COORDINATE WITH DISTRICT FOR INSTALLATION OF METER. NOTIFY PROPERTY OWNER OF SERVICE INTERRUPTION (24 HOUR NOTICE REQUIRED). CONNECT DISTRICT PROVIDED METER TO EXISTING SERVICE. CONTRACTOR TO PROVIDE AND INSTALL ALL PIPE, COUPLINGS AND FITTINGS FOR A COMPLETE CONNECTION.

FOR VACANT (OR FUTURE SERVICE) LOTS

PROVIDE AND INSTALL METER BOX AT PROPERTY LINE. STUB OUT OF METER SETTER WITH 3 FEET OF PE SERVICE PIPE AND CAP.

- WHENEVER AND WHEREVER POSSIBLE SINGLE SERVICE CONNECTIONS SHALL BE GROUPED CLOSE TOGETHER ON CORRESPONDING LOTS.
- ON LONGER DISTANCE RUNS THE SERVICE PIPE MAY BE UPSIZED TO 1" FOR VOLUME PURPOSES

NOTE: PROVIDE MIN. 6" VERTICAL CLEARANCE BETWEEN TOP OF METER AND METER BOX LIP FOR TOUCH READ DEVICE.

1" IPS IF FIRE SPRINKLERS ARE REQUIRED

NO.	ITEM	MANUFACTURER AND NO. AND/OR DESCRIPTION	SINGLE SERVICE	SERVICES OVER 1"
1	SADDLE	ROMAC 1015	SINGLE STRAP SADDLE	DOUBLE STRAP SADDLE
2	CORP. STOP	FOR FB1100-3 OR EQUAL- FOR IPS PIPE (3/4")	3/4"	
3	SERVICE PIPE	PE 340B, SDR 7 BLUE IPS POLY PIPE (3/4")	3/4"	
4	NOT IN USE	----		
5	PIPE	SEE "SERVICE CONNECTION PROTOCOL"		
6	METER SETTER	FORD VHM72-12W WITH VALVE, 12" RISE TOUCH READ, SUPPLIED BY DISTRICT	3/4" x 5/8"	
7	METER	MATCH EXISTING PIPE TYPE (FOR QUICK JOINT W/STIFFENER)	3/4"	
8	COUPLING	MID-STATE PLASTICS MODEL MSBFC 1118	3/4" x 5/8"	
9	BOX	W/DI LID AND TRPL HOLE	-	
10	MOUNTING HOLE	1-3/4" HOLE FOR TOUCH READ PAD	-	

West Sound Utility District Standard Water Details

Single and Double Water Service

REVISION: MARCH 2019

COUNTER COMPLETE PERMIT CENTER
OCT 21 2021
CITY OF PORT ORCHARD COMMUNITY DEVELOPMENT

REVISIONS				BY	DATE
NO.	DATE	BY	DESCRIPTION	DESIGNED	
				DRAWN	
				CHECKED	
				APPROVED	
				ACCEPTED	

N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366



THIMBLEBERRY LOTS 2-6 (L.A.D.P.) WATER NOTES AND DETAILS
Portion of the Southwest Quarter of the Northwest Quarter Section 1, Township 23 North, Range 1 East, W.M. in Kitsap County, Washington

FOR: LA WILLIAMS CONSTRUCTION, LTD
ATTN: TONY WILLIAMS
PO BOX 111
FOX ISLAND, WA 98333
253-381-0252

SCALE: N.T.S.
DATE: 2021.09.13
DRAWING NUMBER
11407
SHEET C6.0

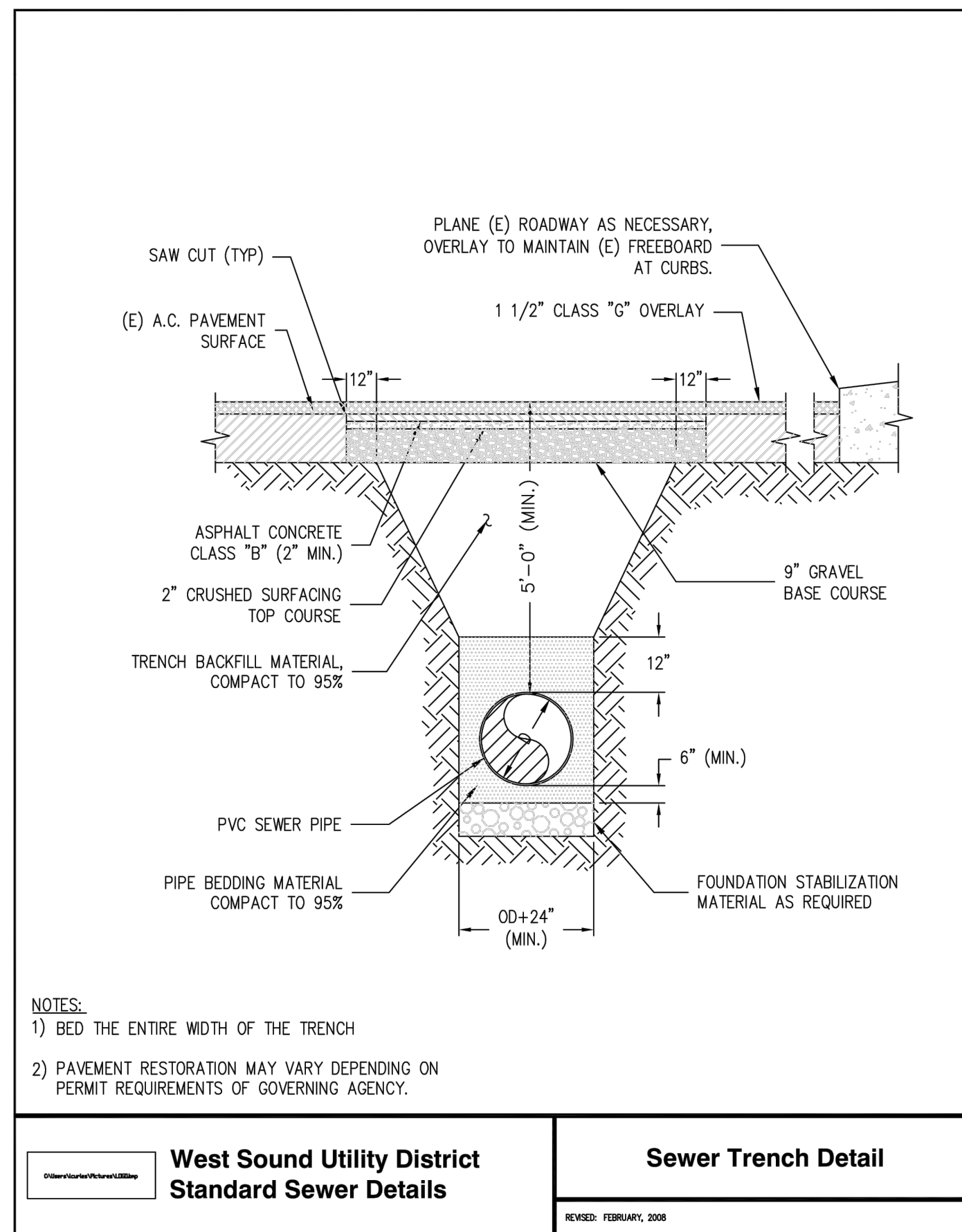
GENERAL SEWER NOTES

- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEVELOPER'S EXTENSION AGREEMENT AS ADOPTED BY WEST SOUND UTILITY DISTRICT.
- ALL CONSTRUCTION REQUIRES A PERMIT PRIOR TO COMMENCEMENT AND BEFORE BACKFILL.
- SEWER LATERALS SHALL BE LAID IN A STRAIGHT LINE BETWEEN BENDS, CHANGES IN LINE AND GRADE SHALL BE 1/16 BEND (22 1/2") OR WYE.
- SEWER LATERALS SHALL BE LAID AT A MINIMUM GRADE OF 2% (1/4" PER FOOT) AND MAXIMUM GRADE OF 100% (1" PER FOOT) UNLESS PRIOR APPROVAL IN WRITING IS OBTAINED FROM THE DISTRICT ENGINEER.
- DOWNSPOUTS AND AREA DRAINS SHALL NOT BE CONNECTED TO THE SEWER SYSTEM.
- CLEANOUTS ARE REQUIRED FOR LATERALS EXCEEDING 100 FT. AT ANY BEND EXCEEDING 1/8" BEND (45") AND WITHIN (10) FT. OF A BUILDING FOUNDATION.
- PROVIDE A MINIMUM 2 FOOT WIDE COMPACTED PIPE BASE UNDER WYES INSTALLED IN TRENCHES.
- PIPE AND FITTINGS SHALL BE ASTM D 3034 SDR35 PVC MATERIAL THROUGHOUT.
- PLACE A NEW 2 X 4 (UTILITY GRADE OR BETTER) SERVICE CONNECTION MARKER AND A MAGNETIC TAPE MARKER AT THE END OF THE SIDE SEWER SERVICE STUB.
- DO NOT BACKFILL ANY SIDE SEWERS UNTIL THE DISTRICT HAS VISUALLY INSPECTED AND APPROVED THE INSTALLATION.
- SIDE SEWER CONNECTION TO EXISTING DISTRICT SEWER SHALL BE WITH USE OF A MECHANICAL SADDLE JOINT, BOLT ON THE RUBBER COMPRESSION GASKET SEAL AREA, AND WITH A 45 DEGREE ANGLE INPUT TO ALLOW ENTRY TO BE IN THE DIRECTION OF FLOW.
- CUT AN OVAL HOLE IN THE DISTRICT MAIN OF SUFFICIENT SIZE TO ACCEPT THE SIDE SEWER SERVICE PIPE AT A 45 DEGREE ANGLE OF ATTACK. THE INTERIOR OF THE DISTRICT MAIN AS SEEN FROM THE INTERIOR WILL SHOW THIS ENTRY POINT.
- PERMIT REQUIRED FROM THE CITY OF PORT ORCHARD PRIOR TO ANY WORK IN RIGHT-OF-WAY.
- CALL UTILITY LOCATE PRIOR TO EXCAVATION.
- SAWCUT & REMOVE ASPHALT AS REQUIRED TO MAKE CONNECTION TO SANITARY SEWER LINE. PROVIDE TEMPORARY ASPHALT PATCH UNTIL PERMANENT PATCH IS COMPLETED.
- PROVIDE TRAFFIC CONTROL AS REQUIRED TO COMPLETE WORK WITHIN R.O.W. OR TRAVELLED AREAS.

NOTE

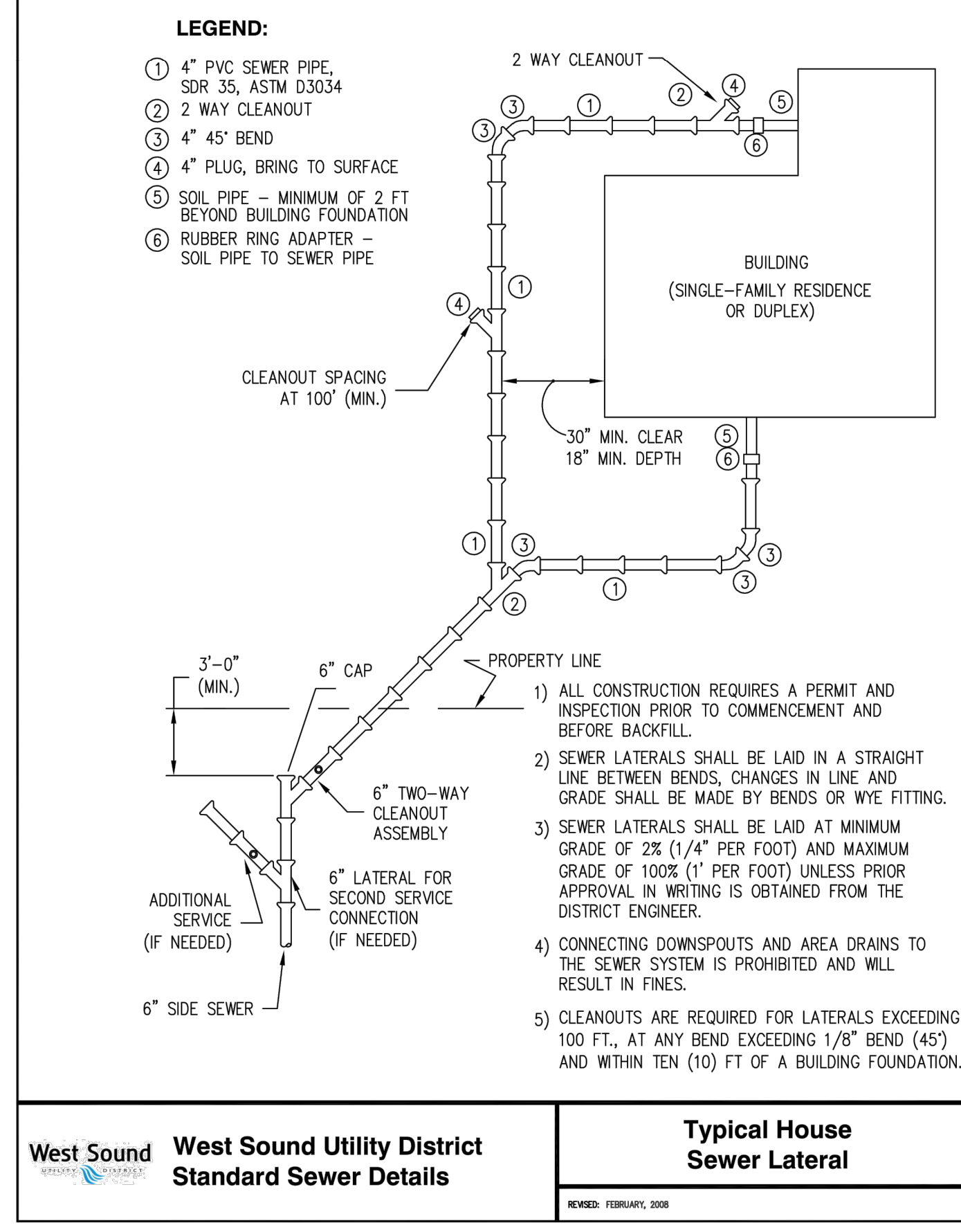
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CALL 48 HOURS BEFORE YOU DIG 811

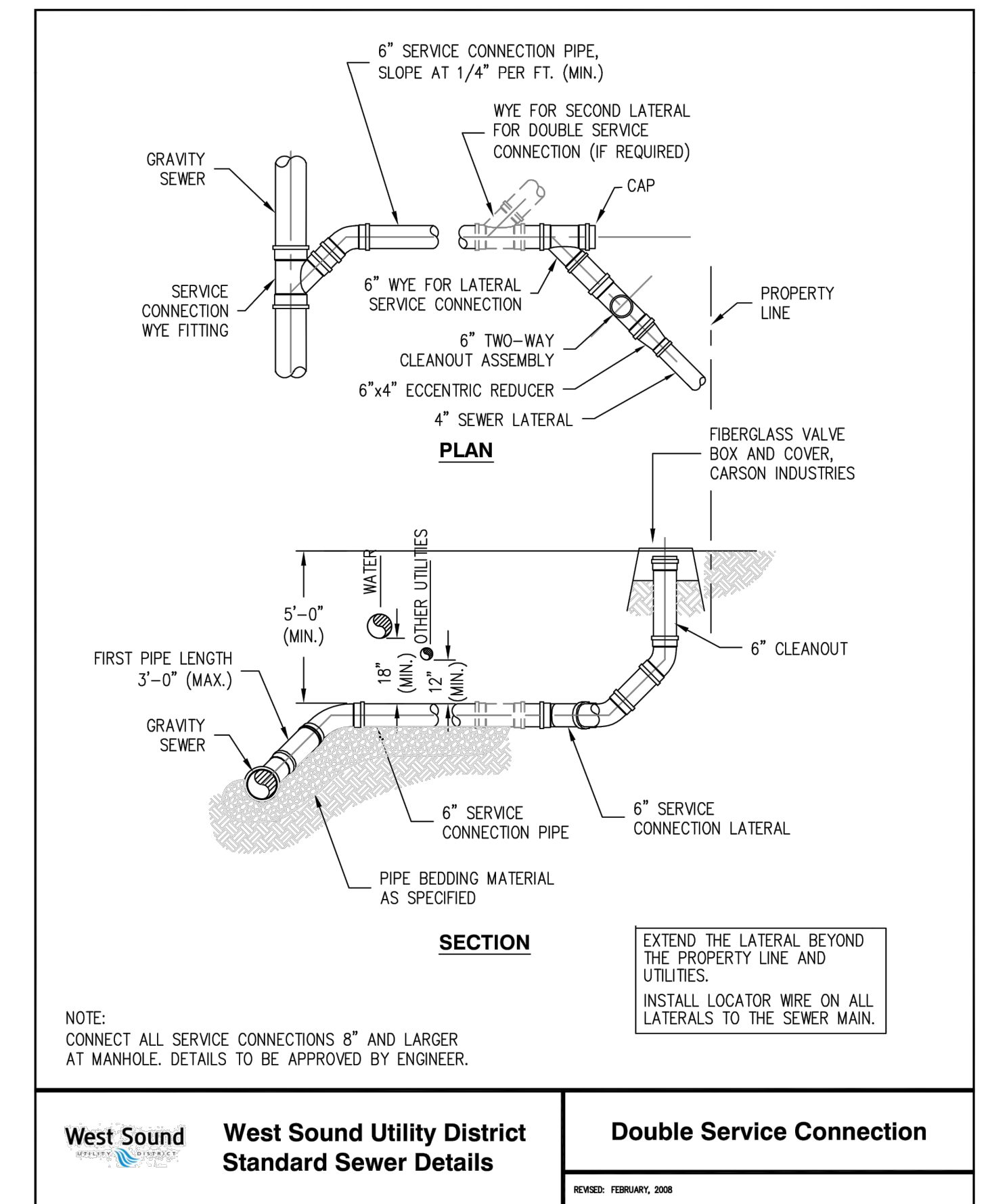


- NOTES:**
 1) BED THE ENTIRE WIDTH OF THE TRENCH
 2) PAVEMENT RESTORATION MAY VARY DEPENDING ON PERMIT REQUIREMENTS OF GOVERNING AGENCY.

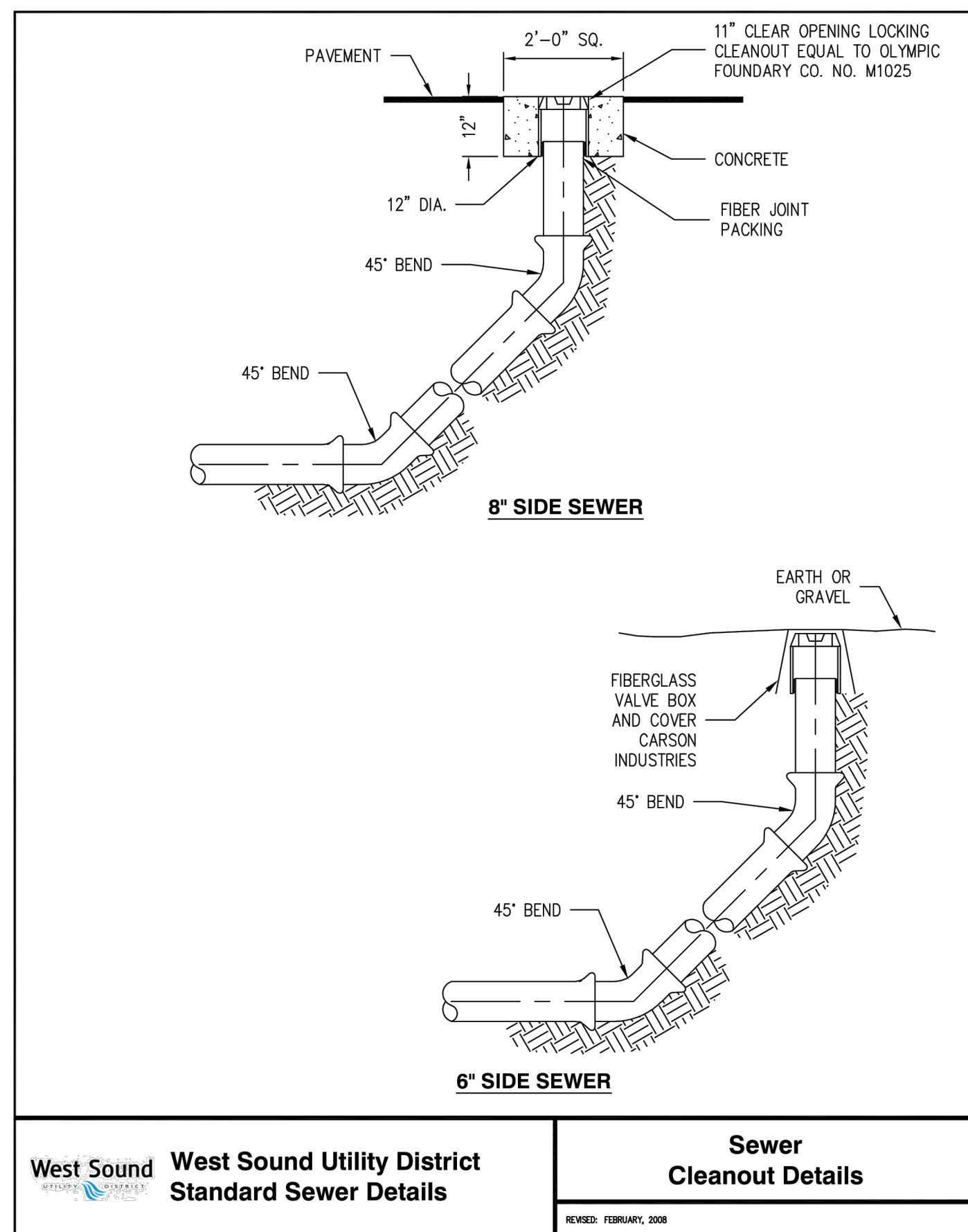
West Sound Utility District Standard Sewer Details
Sewer Trench Detail
 REVISED: FEBRUARY, 2008



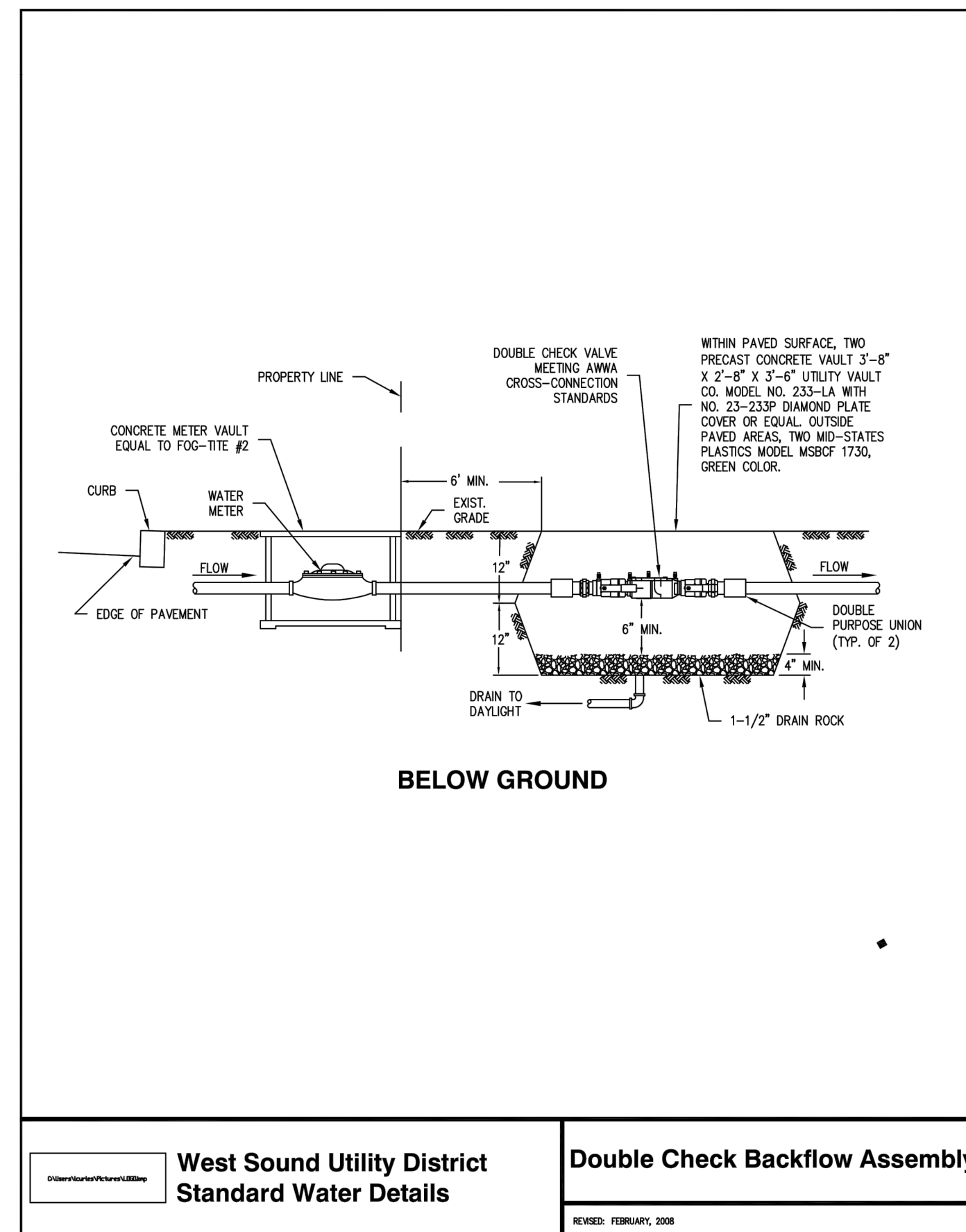
West Sound Utility District Standard Sewer Details
Typical House Sewer Lateral
 REVISED: FEBRUARY, 2008



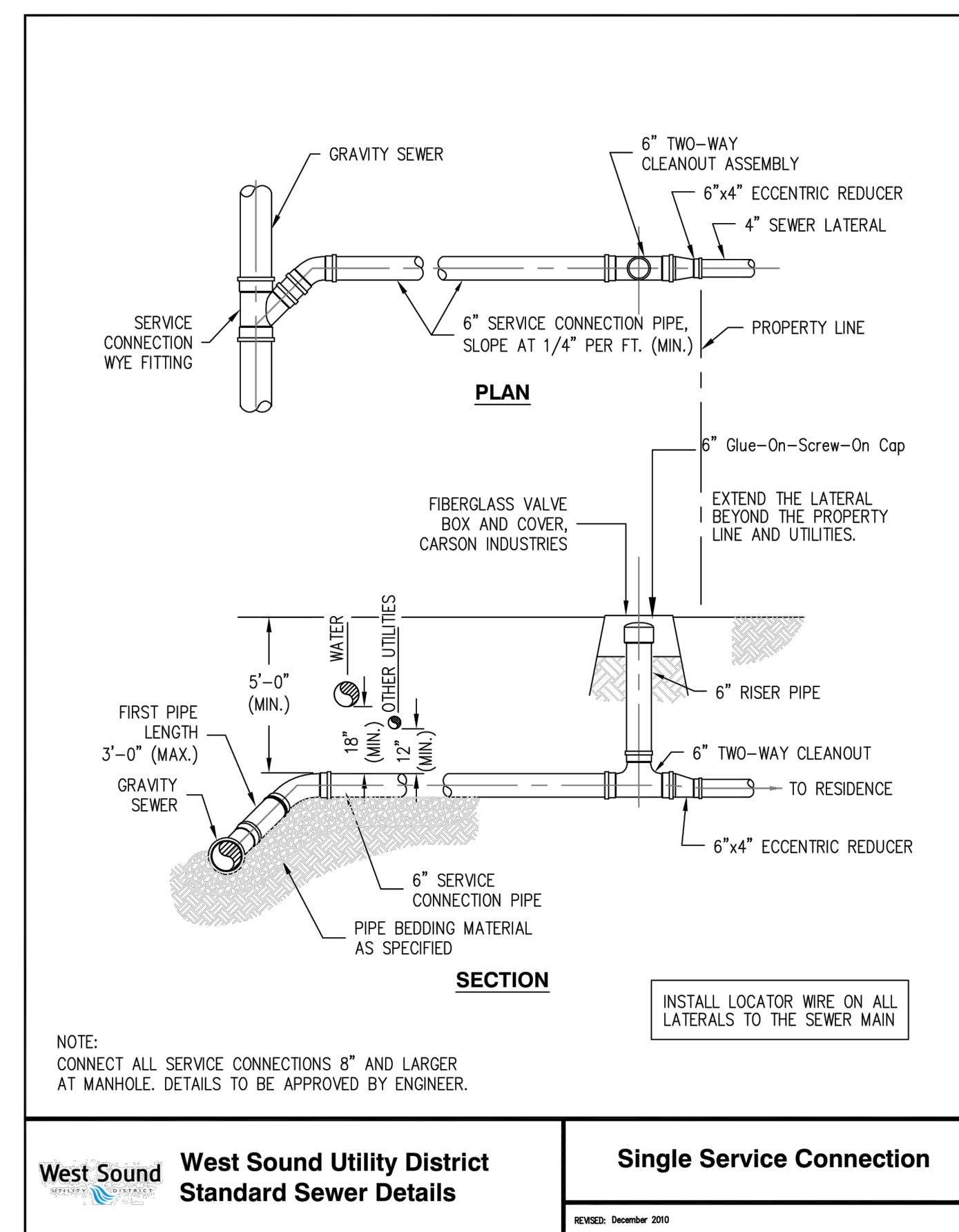
West Sound Utility District Standard Sewer Details
Double Service Connection
 REVISED: FEBRUARY, 2008



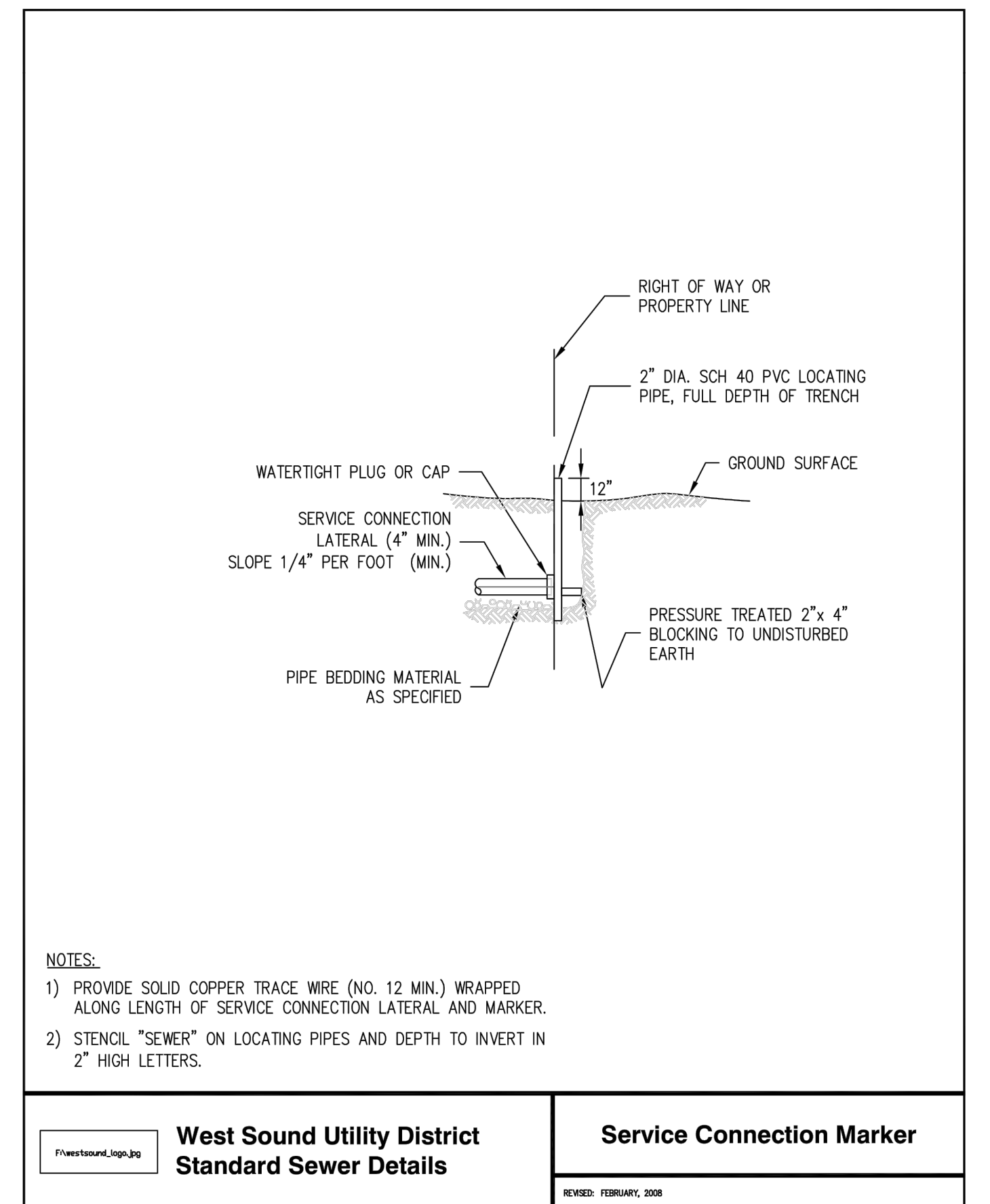
West Sound Utility District Standard Sewer Details
Sewer Cleanout Details
 REVISED: FEBRUARY, 2008



West Sound Utility District Standard Water Details
Double Check Backflow Assembly
 REVISED: FEBRUARY, 2008



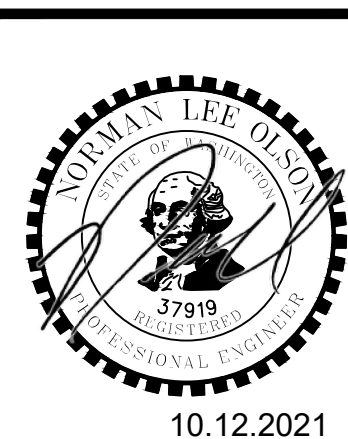
West Sound Utility District Standard Sewer Details
Single Service Connection
 REVISED: DECEMBER, 2010



West Sound Utility District Standard Sewer Details
Service Connection Marker
 REVISED: FEBRUARY, 2008

REVISIONS				BY	DATE
NO.	DATE	BY	DESCRIPTION		
			DESIGNED		
			DRAWN		
			CHECKED		
			APPROVED		
			ACCEPTED		

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SEWER NOTES & DETAILS
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 Section 1, Township 23 North, Range 1 East, W.M.
 in Kitsap County, Washington

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COUNTER COMPLETE PERMIT CENTER
 OCT 21 2021
 CITY OF PORT ORCHARD COMMUNITY DEVELOPMENT

SCALE: N.T.S.
 DATE: 2021.09.13
 DRAWING NUMBER
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