PROPOSED LOT 80 GRADING PROJECT **FOR** KLICKITAT COUNTY PORT DISTRICT NO. 1 DALLESPORT INDUSTRIAL PARK **JULY 2014**

INDEX:

COVER SHEET SHEET 1

SHEET 2 SITE PLAN

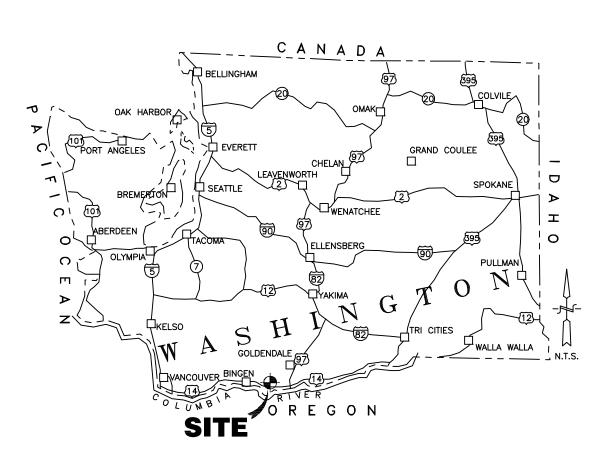
SHEET 3 GRADING PLAN

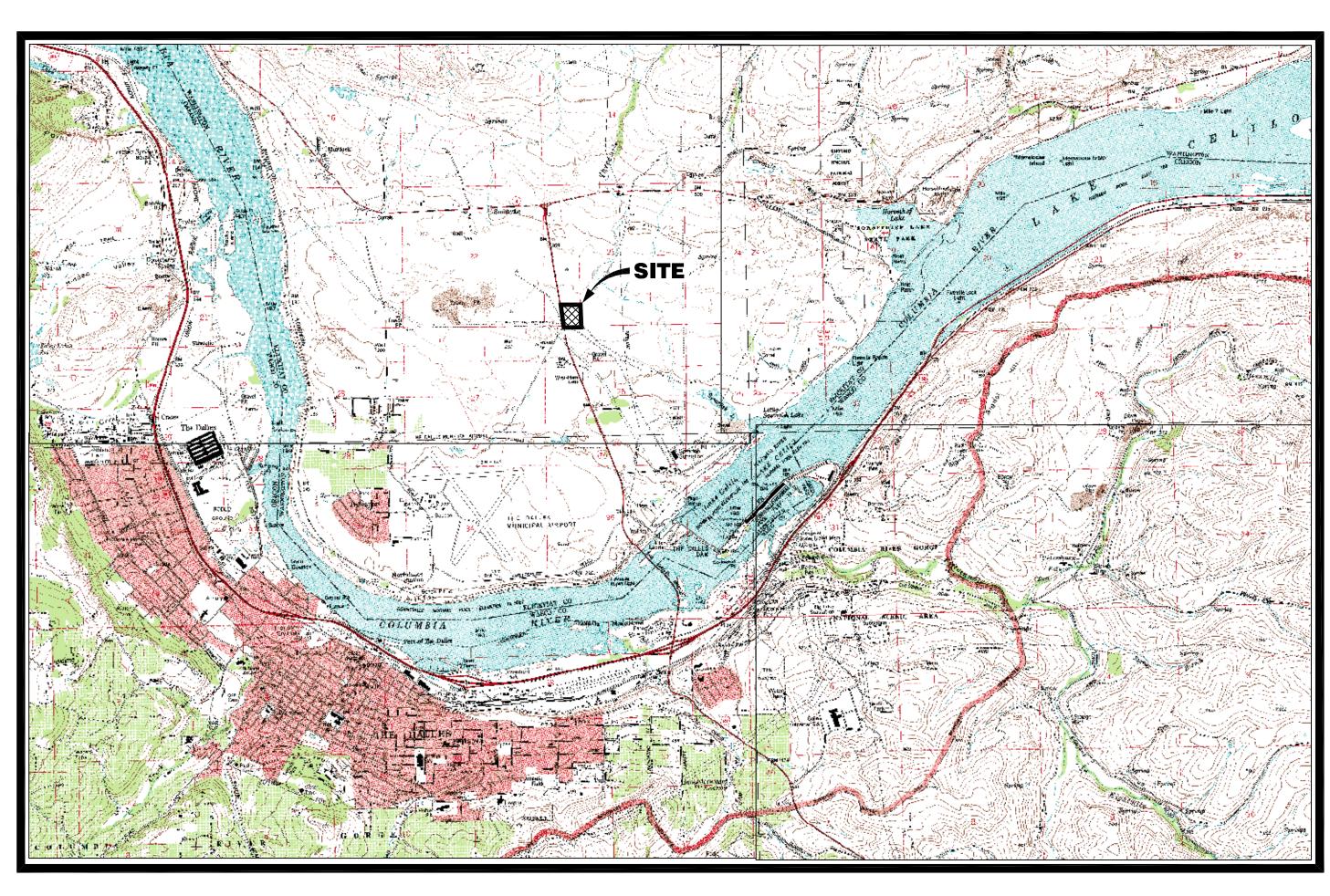
SHEET 4 GRADING DETAILS

EROSION CONTROL SHEET 5

SHEET 6 WELL DETAILS

SHEET 7 GENERAL NOTES





DALLESPORT VICINITY MAP

OWNER:

KLICKITAT COUNTY PORT DISTRICT NO. 1 154 EAST BINGEN POINT WAY, STE. A **BINGEN, WA 98605** PH: (509) 493-1655 FAX: (509) 493-4257 MARC THORNSBURY, **EXECUTIVE DIRECTOR**

ENGINEER:

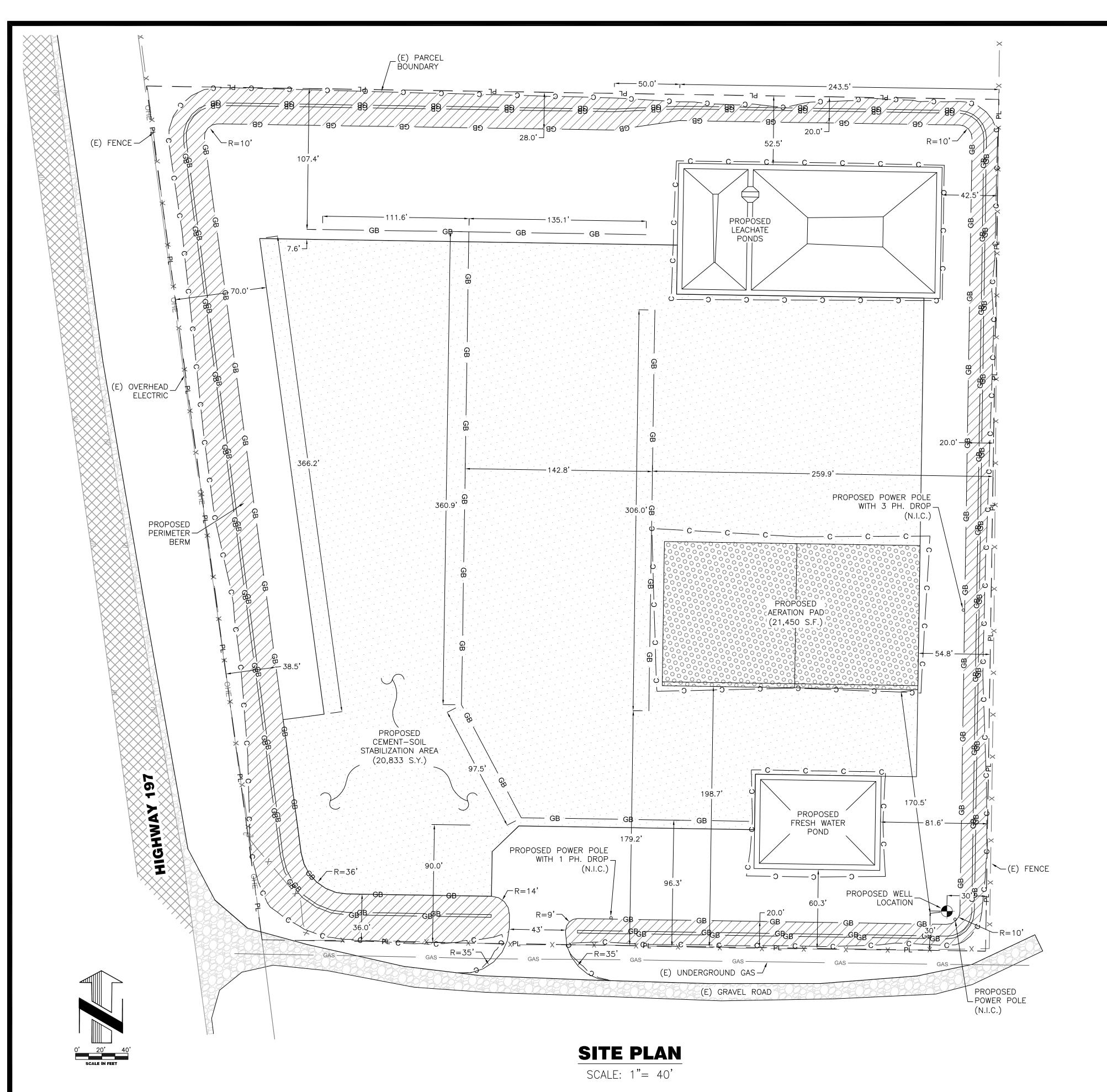
TENNESON ENGINEERING CORP. **3775 CRATES WAY** THE DALLES, OR. 97058 PH: (541) 296-9177 FAX: (541) 296-6657 DARRIN ECKMAN (PROJECT MANAGER) RILEY SKOV (PROJECT ENGINEER)

FOR CONSTRUCTION

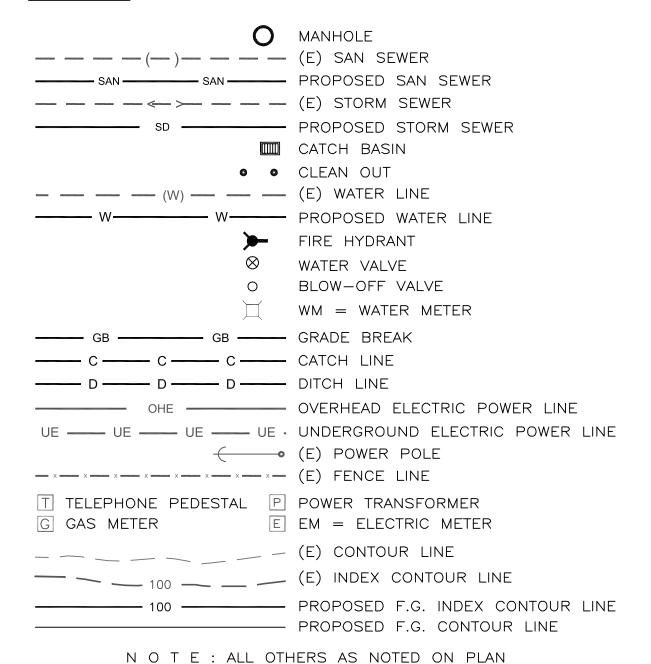
/ / / ------IF THIS BAR IS NOT ONE INC THEN ADJUST SCALES ACCORDIN



COVER



LEGEND:



HATCH LEGEND:

PROPOSED LANDSCAPING	EXISTING CONCRETE	EXISTING GRAVEL	EXISTING ASPHALT
EXISTING BUILDING	PROPOSED CONCRETE	PROPOSED GRAVEL	PROPOSED ASPHALT

GENERAL NOTES:

- 1. CONTRACTOR SHALL COMPLY WITH STATE UTILITY LOCATE PROVISIONS. NO EXCAVATION SHALL BE PERFORMED WITHOUT PROPER NOTIFICATION OF UTILITIES.
- 2. KNOWN UTILITIES IN THE AREA OF WORK HAVE BEEN SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. NO RESPONSIBILITY IS ASSUMED BY EITHER THE OWNER OR THE CONSULTING ENGINEER FOR THE COMPLETENESS OR ACCURACY OF THE LOCATIONS, TYPE, OR NUMBER OF EXISTING UTILITIES.
- 3. CONTRACTOR TO ARRANGE A PRE-CONSTRUCTION MEETING PRIOR TO START OF WORK WITH THE OWNER, ENGINEER, LESSEE AND APPLICABLE UTILITY STAFF.
- 4. CONTRACTOR TO PAY ALL PROJECT UTILITY TAPPING, TV, AND CHLORINATION COSTS. COST FOR RETESTING SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER
- 5. UNLESS OTHERWISE APPROVED BY THE JURISDICTION, CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 AM. AND 6:00 P.M., MONDAY THROUGH FRIDAY.
- 6. ANY INSPECTION BY THE OWNER OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND AGENCY REQUIREMENTS.
- 7. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER LOCAL REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (WASHINGTON AMENDMENTS, IF ANY). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 8. ALL ELECTRICAL INFRASTRUCTURE IS NOT IN CONTRACT (N.I.C.), CONTRACTOR TO COORDINATE PUD ACTIVITIES.
- 9. CONSTRUCTION TO BE STAGED AS FOLLOWS:
- DAY 1-30: CONTRACTOR TO PERFORM CLEARING, STRIPPING, GRADING AND EXCAVATION OF SITE.
- CONTRACTOR TO PROVIDE AGGREGATE SECTION IN AERATION PAD AREA.
- CONTRACTOR TO PROVIDE WATER WELL AND APPURTENANCES.
- CONTRACTOR TO COORDINATE WITH KLICKITAT CO. P.U.D. TO ALLOW ACCESS FOR ELECTRICAL INSTALLATION.
- DAY 31-60: SITE TO BE TEMPORARILY RELEASED TO LESSEE TO ALLOW FOR INSTALLATION OF POND LINERS, UTILITIES, AERATION PIPING, ETC.
- DAY 61-75: CONTRACTOR TO REGRADE SITE AND PROVIDE SOIL STABILIZATION.
- PROJECT COMPLETE.

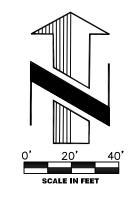


FOR CONSTRUCTION



SITE PLAN

SHEET



POINT NO. NORTHING EASTING FG ELEV. 1 111825.509 1473259.231 294.00 2 111840.448 1473268.521 294.05 3 111840.448 1473640.298 299.00 4 111837.836 1473570.597 291.58 5 111845.049 1473620.716 291.19 6 111841.696 1473844.032 291.00 7 111831.540 1473844.032 291.00 8 111761.922 1473348.538 292.90 10 111760.181 1473460.159 292.00 11 111758.072 1473595.292 290.40 12 111684.654 1473278.300 294.00 13 111709.632 1473842.117 291.00 14 111709.632 1473840.398 292.00 15 111576.282 1473292.972 295.00 16 111600.235 147360.393 295.00 17 111523.870 1473607.693 294.00		POINT COO	RDINATES	
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26 111443.786 1473837.940 293.00 27 111467.918 1473307.642 296.00 28 111399.468 1473371.330 295.00 29 111399.282 1473454.520 293.80 30 111394.610 1473597.422 292.25 31 111353.366 1473564.024 293.00 32 111345.039 1473433.360 294.00 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473491.023 290.69	24	111413.834	1473802.689	294.30
27 111467.918 1473307.642 296.00 28 111399.468 1473371.330 295.00 29 111399.282 1473454.520 293.80 30 111394.610 1473597.422 292.25 31 111353.366 1473564.024 293.00 32 111345.039 1473324.278 294.00 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473477.403 290.79 42 111239.009 1473471.181 290.79 43 111228.914 1473491.181 290.79 44 111194.713 1473491.861 290.00 45 111189.171 1473556.354 289.40	25	111410.830	1473802.645	294.21
28 111399.468 1473371.330 295.00 29 111399.282 1473454.520 293.80 30 111394.610 1473597.422 292.25 31 111353.366 1473564.024 293.00 32 111345.039 1473324.278 294.00 33 111332.810 1473457.881 293.60 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473477.403 290.79 42 111239.009 1473477.403 290.79 43 111228.914 1473491.181 290.79 44 111194.713 1473451.861 290.00 45 111189.171 1473556.354 289.40	26	111443.786	1473837.940	293.00
29 111399.282 1473454.520 293.80 30 111394.610 1473597.422 292.25 31 111353.366 1473564.024 293.00 32 111345.039 1473324.278 294.00 33 111332.810 1473457.881 293.60 34 111303.469 1473457.881 293.60 35 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 14734673.664 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111188.821 1473567.889 289.52	27	111467.918	1473307.642	296.00
30 111394.610 1473597.422 292.25 31 111353.366 1473564.024 293.00 32 111345.039 1473324.278 294.00 33 111332.810 1473433.360 294.00 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111188.821 1473567.889 289.52	28	111399.468	1473371.330	295.00
31 111353.366 1473564.024 293.00 32 111345.039 1473324.278 294.00 33 111332.810 1473433.360 294.00 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 147332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111188.821 1473556.354 289.40 47 11188.821 1473534.003 290.50 <t< td=""><td>29</td><td>111399.282</td><td>1473454.520</td><td>293.80</td></t<>	29	111399.282	1473454.520	293.80
32 111345.039 1473324.278 294.00 33 111332.810 1473433.360 294.00 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111192.556 1473469.850 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 11188.821 1473534.003 290.50 48 111227.335 1473534.003 290.50 <	30	111394.610	1473597.422	292.25
33 111332.810 1473433.360 294.00 34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111236.193 1473534.143 290.50 50 111236.193 1473543.143 290.50	31	111353.366	1473564.024	293.00
34 111303.469 1473457.881 293.60 35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111188.821 1473556.354 289.40 47 11188.821 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 <	32	111345.039	1473324.278	294.00
35 111313.128 1473500.206 293.40 36 111290.386 1473498.476 293.00 37 111288.583 1473603.937 293.00 38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 11188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111236.193 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111231.771 1473824.609 292.00 <	33	111332.810	1473433.360	294.00
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38 111310.403 1473673.691 293.40 39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 11188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111236.193 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 <	36	111290.386	1473498.476	293.00
39 111286.122 1473332.255 293.08 40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111188.821 1473556.354 289.40 47 11188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	37	111288.583	1473603.937	293.00
40 111254.956 1473367.364 292.46 41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 111188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	38	111310.403	1473673.691	293.40
41 111253.227 1473477.403 290.79 42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 11188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 50 111236.193 1473534.003 290.50 50 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	39	111286.122	1473332.255	293.08
42 111239.009 1473491.181 290.79 43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 11188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	40	111254.956	1473367.364	292.46
43 111228.914 1473491.023 290.69 44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 111188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	41	111253.227	1473477.403	290.79
44 111194.713 1473451.861 290.00 45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 111188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	42	111239.009	1473491.181	290.79
45 111192.556 1473469.850 290.00 46 111189.171 1473556.354 289.40 47 111188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	43	111228.914	1473491.023	290.69
46 111189.171 1473556.354 289.40 47 111188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	44	111194.713	1473451.861	290.00
47 111188.821 1473567.889 289.52 48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	45	111192.556	1473469.850	290.00
48 111224.354 1473533.956 290.50 49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	46	111189.171	1473556.354	289.40
49 111227.335 1473534.003 290.50 50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	47	111188.821	1473567.889	289.52
50 111236.193 1473543.143 290.50 51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	48	111224.354	1473533.956	290.50
51 111234.872 1473627.214 290.50 52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	49	111227.335	1473534.003	290.50
52 111231.771 1473824.609 292.00 53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	50	111236.193	1473543.143	290.50
53 111241.613 1473834.764 292.33 54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	51	111234.872	1473627.214	290.50
54 111292.332 1473835.561 293.60 100 111227.321 1473323.379 290.20	52	111231.771	1473824.609	292.00
100 111227.321 1473323.379 290.20	53	111241.613	1473834.764	292.33
	54	111292.332	1473835.561	293.60
101 111210.822 1473857.131 294.06	100	111227.321	1473323.379	290.20
	101	111210.822	1473857.131	294.06

GENERAL NOTES:

- REMOVED OR RECOMPACTED.
- 2. FILLS SHALL BE PLACED IN DRY WEATHER WITH PROPER CONTROLS ON MOISTURE AND COMPACTION. FILLS SHALL BE PLACED IN THIN LIFTS AND COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE OPTIMUM DRY DENSITY (ASTM D1557) IN ALL AREAS EXCEPT AT THE BERMS. ALL FILLS OUTSIDE THESE LIMITS SHALL BE COMPACTED TO 90 PERCENT OF THE MAXIMUM DRY DENSITY. THE THICKNESS OF THE LIFTS WILL NEED TO BE DETERMINED IN THE FIELD, AS A GENERAL RULE FOR SELF PROPELLED COMPACTORS, THE LIFTS SHALL NOT EXCEED 8 INCHES AS MEASURED IN A LOOSE CONDITION. FOR SMALL HAND COMPACTORS, THE LIFTS SHALL BE REDUCED TO 4-5 INCHES LOOSE
- BENCHMARK EL.=294.06 AS NOTED ON THE PLANS.
- 4. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY ASSUMES NO RESPONSIBILITY FOR ERRORS.

GRADING NOTES:

- 3. EXISTING GROUND CONTOURS ARE SHOWN AT ONE
- 4. FINISH GRADE CONTOURS ARE SHOWN AT ONE AND TWO FOOT INTERVALS.
- 6. GRADES ARE TO BE STRAIGHT BETWEEN SPOT ELEVATIONS SHOWN.
- 7. ALL MATERIAL EXCAVATED FROM LEACHATE AND FRESH WATER PONDS (3,890 C.Y.) TO BE HAULED TO, PLACED AND COMPACTED ON THE NORTH SIDE OF
- 9. BRUSH AND WOODY DEBRIS TO BE STOCKPILED TO
- 10. TOP LIFT OF FILL (6" MAX) IN SOIL STABILIZATION AREA DOES NOT NEED TO BE COMPACTED UNTIL THE

- EMBANKMENT: 8,990 C.Y.
- EXCAVATION: 3,760 C.Y.
- 3. SOLID VOLUMES CALCULATED TO EARTHEN FINISH GRADE AND DO NOT INCLUDE EXCAVATION FOR UTILITY TRENCHING, FOOTINGS, ETC.
- SHOWN.

- 1. DEVELOPED AREAS SHALL BE PROPERLY PREPARED INCLUDING ANY SURFACE SOIL LOOSENED AS A RESULT OF CLEARING AND GRUBBING SHALL BE
- MATERIAL.
- 3. ELEVATIONS ARE BASED ON A TEMPORARY
- OTHERS. TENNESON ENGINEERING CORPORATION

- 1. FG = FINISH GRADE
- 2. OG = ORIGINAL GROUND
- FOOT INTERVALS.
- 5. MAXIMUM SLOPE TO BE 2H:1V.
- DOW ROAD AS DIRECTED BY THE ENGINEER.
- 8. STRIPPINGS TO BE USED IN BERM CONSTRUCTION.
- SOUTH OF LOT.
- CEMENT-SOIL PROCESSING HAS BEEN COMPLETED.

EARTHWORK VOLUMES:

EXCAVATION: 10,860 C.Y.

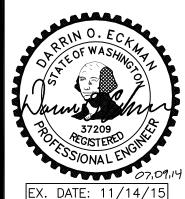
4. EXCESS SITE MATERIAL TO BE STOCKPILED ON PREPARED GRADE AT NW CORNER OF SITE AS

SOIL STABILIZATION:

- ALL WORK AREAS EXCEPT PONDS, AERATION PAD, ROADS AND BERMS ARE TO RECEIVE A 6% CEMENT—SOIL TREATMENT.
- 2. CONTRACTOR IS TO FINISH GRADE WORK AREA AND UNIFORMLY PLACE REQUIRED MASS (4.0 LBS/S.F.) OF TYPE I/II PORTLAND CEMENT ON PREPARED FINISH GRADE SURFACE.
- 3. CONTRACTOR IS TO UNIFORMLY INCORPORATE CEMENT INTO THE SOIL BY MIXING TO A DEPTH OF 6".
- 4. WATER IS TO BE ADDED DURING THE MIXING PROCESS TO BRING THE MOISTURE CONTENT TO 13% ($\pm 1\%$).
- 5. CEMENT-SOIL MIXTURE IS TO BE FINISH GRADED AND COMPACTED TO 95% OF OPTIMUM DENSITY (ASTM D1557).

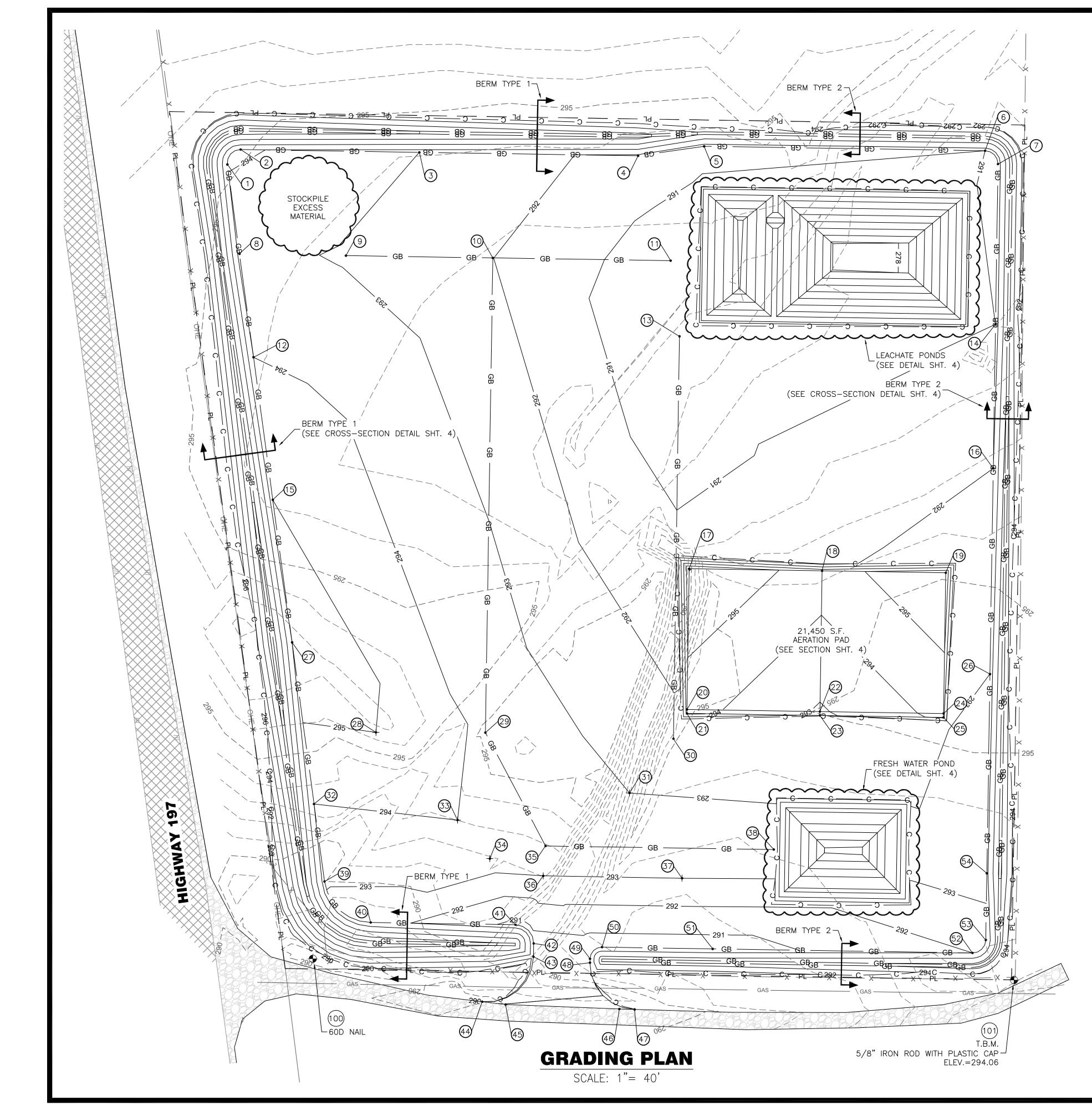
FOR CONSTRUCTION

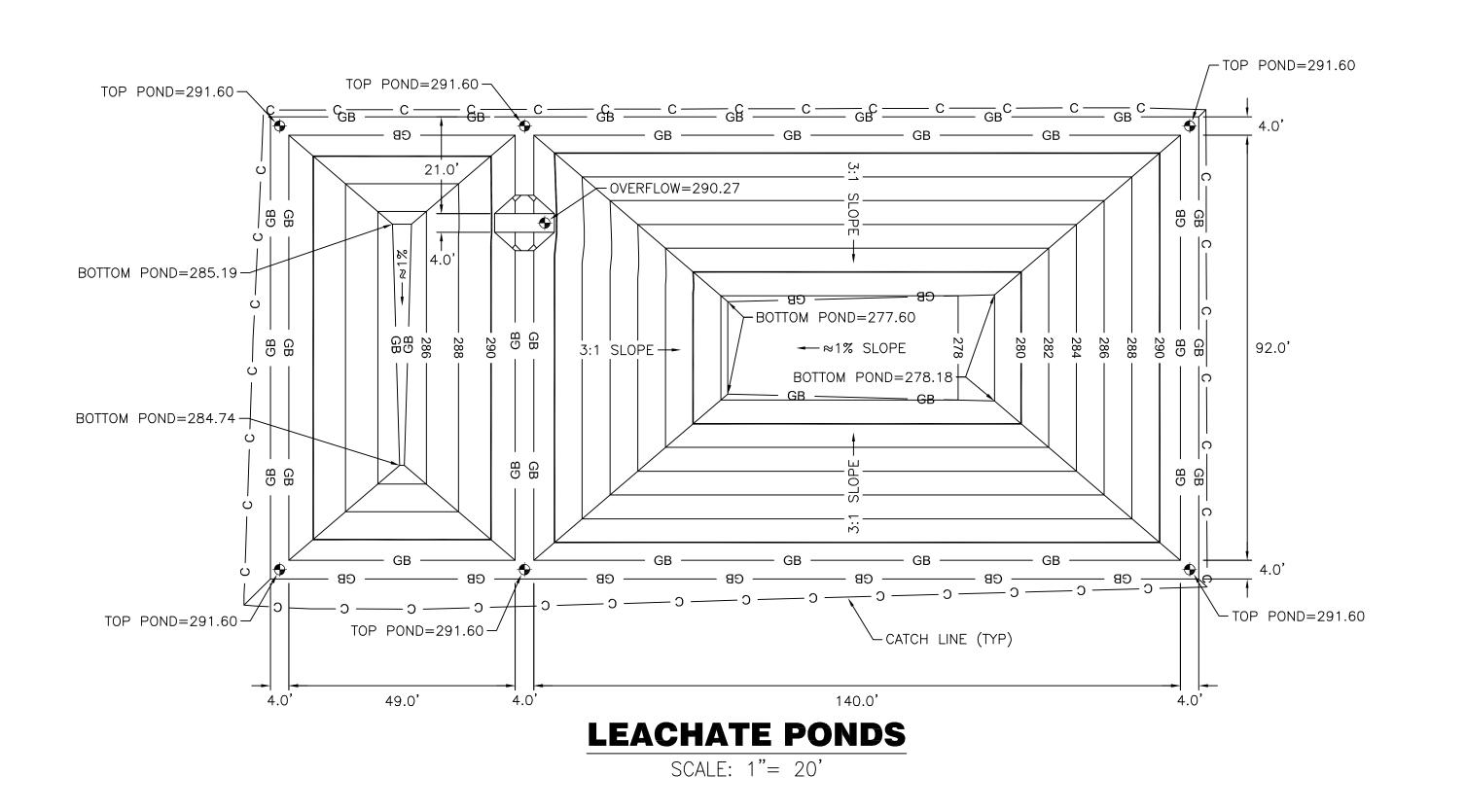
____ IF THIS BAR IS NOT ONE INCH THEN ADJUST SCALES ACCORDIN

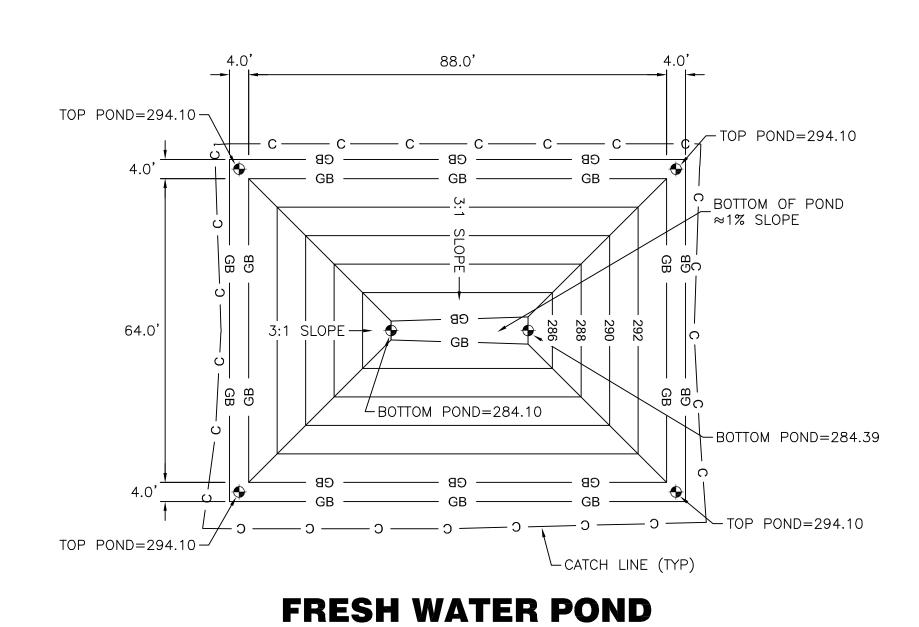


GRADING

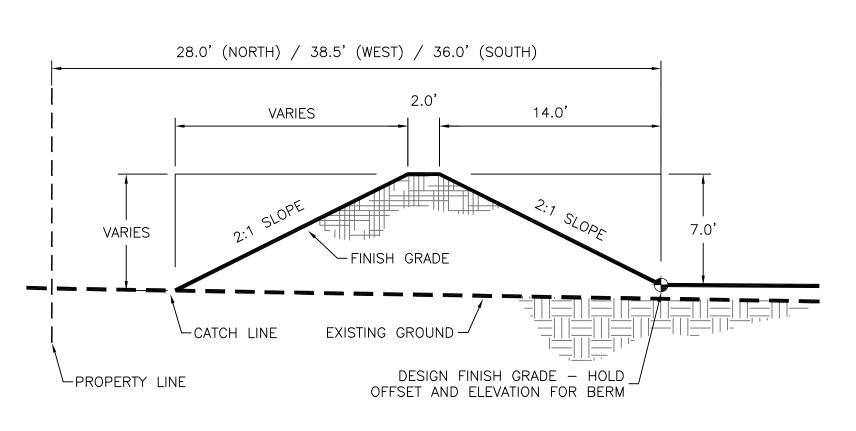
SHEET

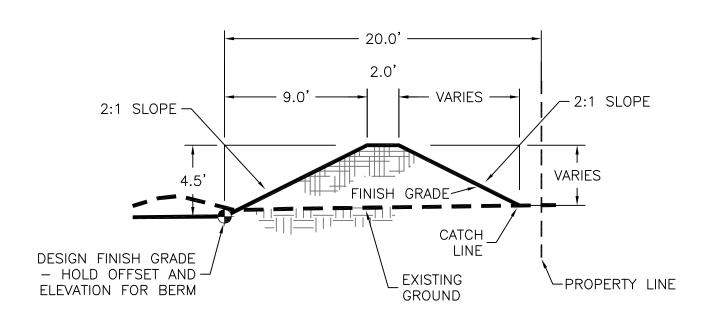


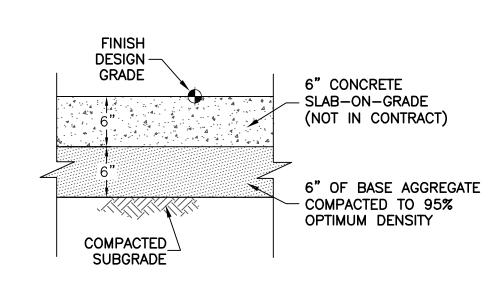




SCALE: 1"= 20'







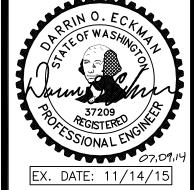
BERM TYPE 1 SCALE: 1"= 6'

BERM TYPE 2 SCALE: 1"= 6'

GRAVEL SECTION

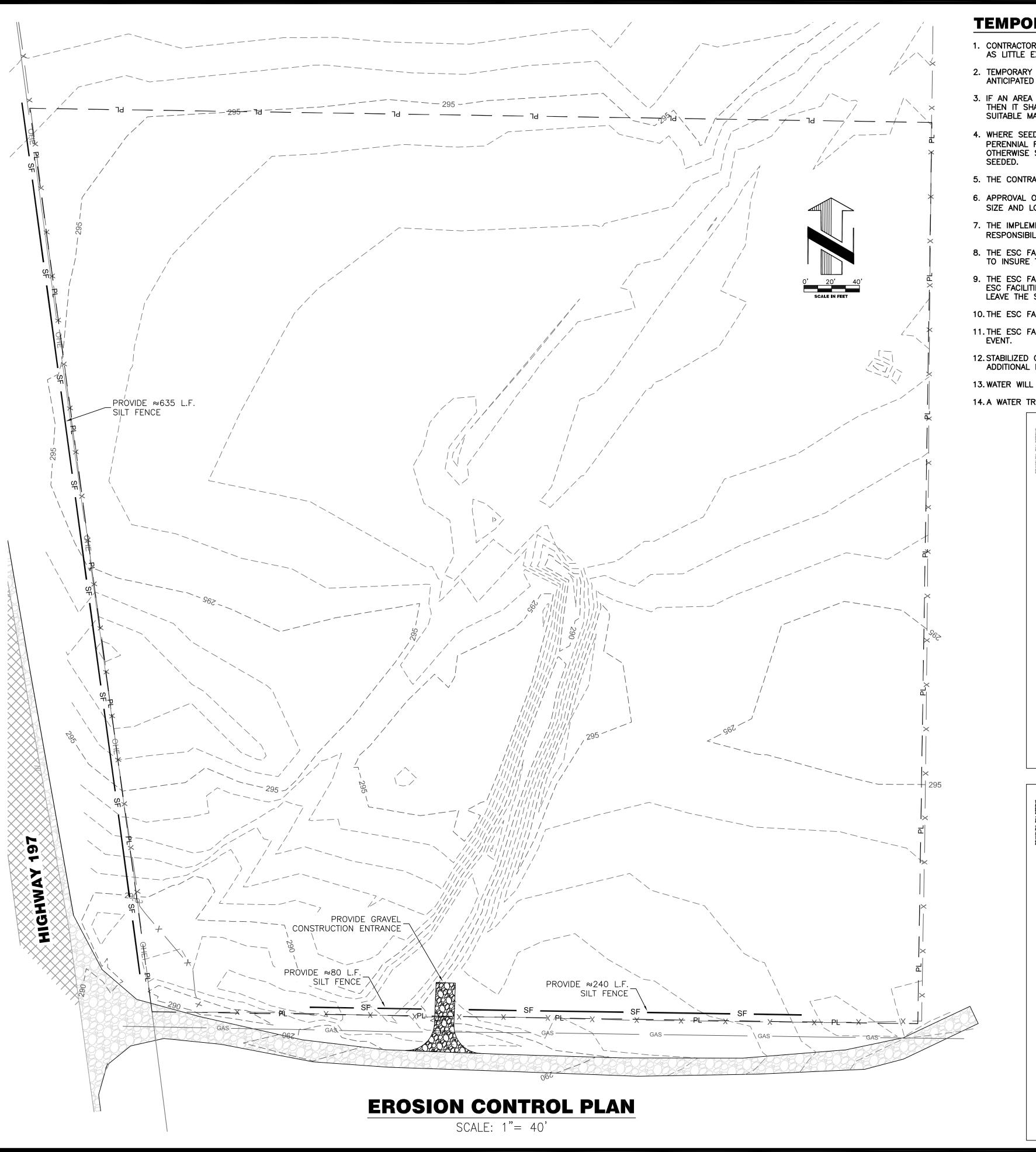
FOR CONSTRUCTION





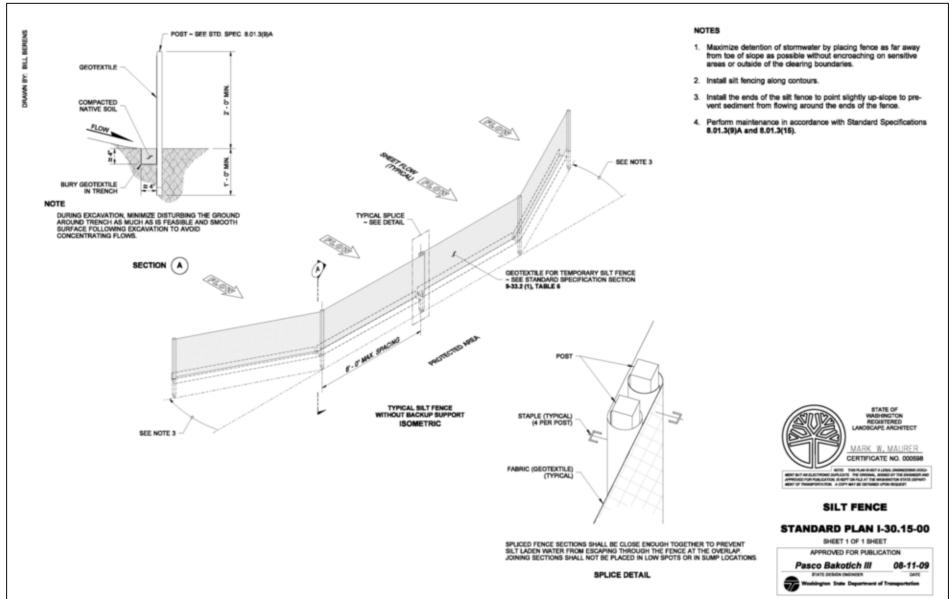
GRADING

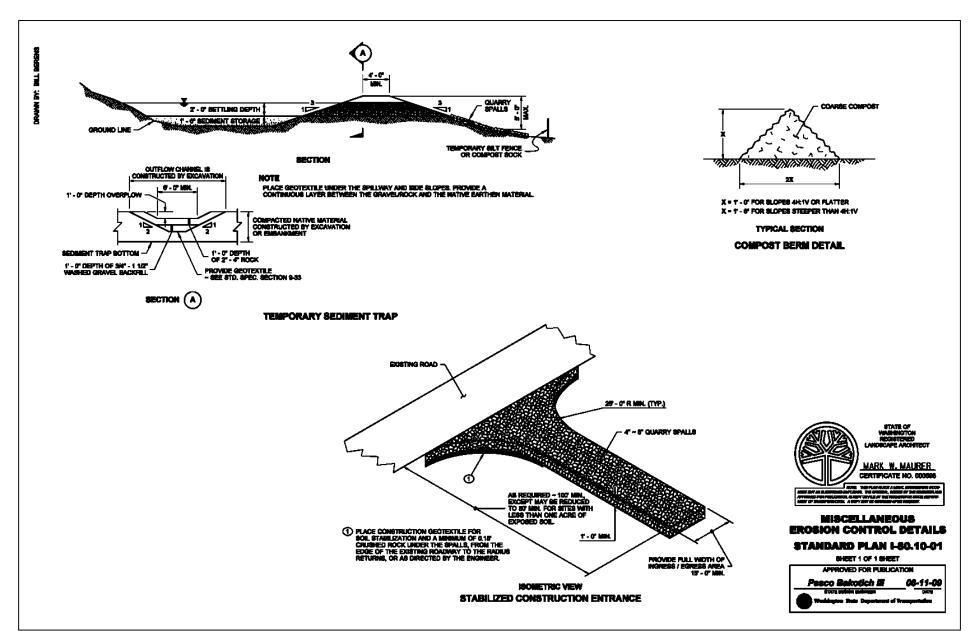
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TEMPORARY EROSION CONTROL AND SEDIMENTATION NOTES:

- 1. CONTRACTOR SHALL KEEP CUTTING AND CLEARING TO A MINIMUM AND WITHIN THE AREA UNDER CONSTRUCTION. EVERY EFFORT SHOULD BE MADE TO DISTURB AS LITTLE EXISTING VEGETATION AS POSSIBLE, AND TO REESTABLISH GOOD GROUND COVER OF NON—SURFACED AREAS AS SOON AS POSSIBLE AFTER GRADING.
- 2. TEMPORARY SEEDING OF DISTURBED AREAS, SUCH AS CUTS, FILLS AND STORAGE AREAS SHALL BE DONE AS SOON AS POSSIBLE AFTER GRADING IF IT IS ANTICIPATED TO BE LEFT UNWORKED FOR MORE THAN 30 DAYS.
- 3. IF AN AREA IS NOT, OR CANNOT BE SEEDED ADEQUATELY TO PROTECT IT FROM EROSION AND IT IS ANTICIPATED TO BE UNWORKED FOR MORE THAN 30 DAYS, THEN IT SHALL BE PROTECTED BY COVERING WITH SOME PROTECTIVE MATERIAL, SUCH AS MULCHES, STRAW, TARPS, PLASTIC, CHIPPED BRUSH, OR OTHER SUITABLE MATERIAL.
- 4. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE). SEEDING OF CLEARED AREAS SHALL BE ACCOMPLISHED WITHIN 30 DAYS UNLESS OTHERWISE STABILIZED. TEMPORARY IRRIGATION MAY BE REQUIRED TO ESTABLISH AND MAINTAIN VEGETATION. ALL NON-SURFACED DISTURBED AREAS SHALL BE
- 5. THE CONTRACTOR SHALL INSPECT ROADS DAILY AND CLEAN AS NEEDED SO THAT NO SEDIMENT IS WASHED OR CARRIED OFF-SITE.
- 6. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- 7. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- 8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- 9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT
- 10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 11. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM
- 12. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 13. WATER WILL BE USED AS NEEDED FOR DUST CONTROL DURING CONSTRUCTION ACTIVITIES.
- 14. A WATER TRUCK MUST BE PRESENT ON-SITE DURING CONSTRUCTION ACTIVITIES.

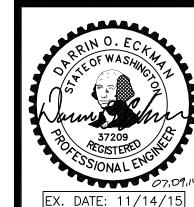




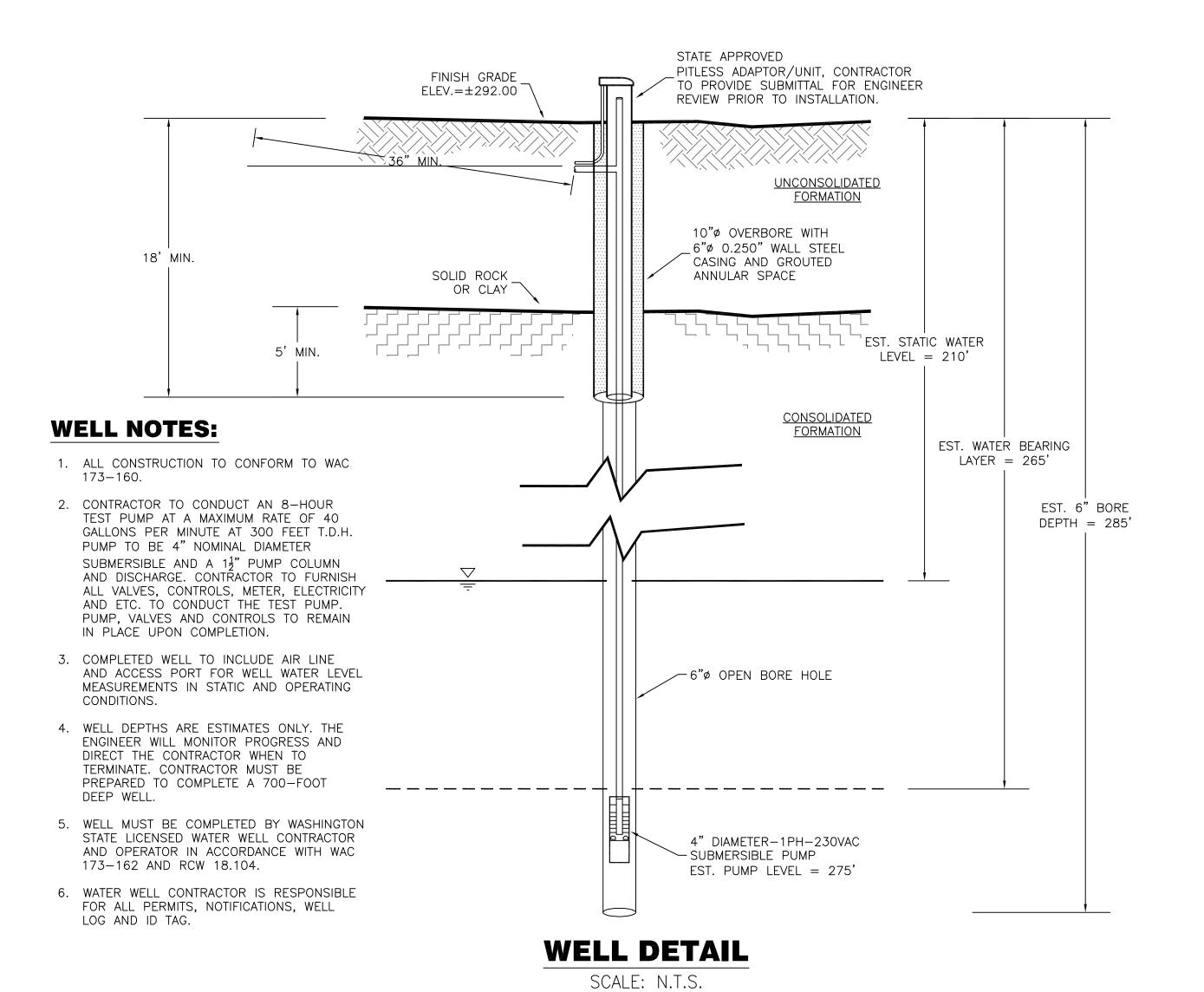
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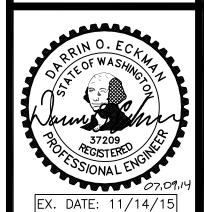


EROSION



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GENERAL NOTES:

- A) CONTRACTOR SHALL PROCURE AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE APPROPRIATE AGENCY HAVING JURISDICTION.
- B) CONTRACTOR TO PAY ALL PROJECT UTILITY TAPPING, TV, AND CHILDRINATION COSTS. COST FOR RETESTING SHALL BE BORNE BY THE CONTRACTOR, CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER
- C) CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
- D) ALL MATERIALS AND WORKMANSHIP FOR FACILITIES IN STREET RIGHT-OF-WAY OR EASEMENTS SHALL CONFORM TO APPROVING AGENCIES' CONSTRUCTION SPECIFICATIONS WHEREIN EACH HAS JURISDICTION, INCLUDING BUT NOT LIMITED TO THE COUNTY, WASHINGTON DEPARTMENT OF HEALTH (DOH) AND THE WASHINGTON DEPARTMENT OF ECOLOGY (DOE).
- E) UNLESS OTHERWISE APPROVED BY THE JURISDICTION, CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 AM. AND 6:00 P.M., MONDAY THROUGH FRIDAY.
- F) THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY

BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.

- G) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION AND COMPLY WITH ALL OTHER REQUIREMENTS OF THE SERVING UTILITIES.
- H) ANY INSPECTION BY THE OWNER OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND AGENCY REQUIREMENTS.
- I) CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER LOCAL REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (WASHINGTON AMENDMENTS). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
- J) CONTRACTOR SHALL BE PROPERLY LICENSED BY THE APPROPRIATE STATE AGENCY.
- K) ELEVATIONS ARE BASED ON AN ASSUMED DATUM AS SHOWN ON THE PLANS.
- L) STATIONING IS BASED ON PRIMARY ALIGNMENT SHOWN

EXISTING UTILITIES & FACILITIES:

- A) THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE PORT UPON REQUEST. FAILURE TO CONFORM TO THIS REQUIREMENT MAY RESULT IN DELAY OF PAYMENT AND/OR FINAL ACCEPTANCE OF THE PROJECT.
- B) UPON COMPLETION OF CONSTRUCTION OF ALL NEW FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT DRAWINGS TO THE ENGINEER FOR USE IN THE PREPARATION OF AS-BUILT DRAWINGS FOR SUBMITTAL TO THE COUNTY AND OWNER. ALL INFORMATION SHOWN ON THE CONTRACTORS FIFLD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION BY THE ENGINEER. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED BY THE ENGINEER, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR AND/OR QUALIFIED ENGINEER SHALL BE COMPETED AT THE CONTRACTOR'S EXPENSE.
- C) THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWING, ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- D) THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.
- E) CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, AND THE DESIGN ENGINEER SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS SHALL BE POTHOLED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.
- F) ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE COUNTY ENGINEER.
- G) UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE-REMOVED BY THE CONTRACTOR THE EXTENT NECESSARY TO ACCOMPHISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES.
- H) CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER
- I) ANY SEPTIC TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT. CONTRACTOR SHALL BREAK BOTTOM OF TANK OUT AND BACKFILL WITH PEA GRAVEL UNLESS OTHERWISE REQUIRED-BY PUBLIC AGENCIES HAVING JURISDICTION. SEPTIC TANK REMOVAL TO BE IN ACCORDANCE WITH SANITARIAN REQUIREMENTS.
- J) ANY WELLS ENCOUNTERED SHALL BE ABANDONED PER STATE REQUIREMENTS.
- K) ANY FUEL TANKS ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER STATE REQUIREMENTS. BACKFILL WITH COMPACTED GRANULAR MATERIAL.
- L) CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH REMOVING OR ABANDONING ANY SEPTIC TANKS, WELLS (INCLUDING BOREHOLE PIEZOMETERS) AND FUEL TANKS ENCOUNTERED AS PER REGULATING AGENCY REQUIREMENTS. WHEN SHOWN ON THE DRAWINGS, THESE STRUCTURES SHALL BE REMOVED OR ABANDONED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY SEPTIC TANKS, WELLS OR FUEL TANKS NOT SHOWN ON THE DRAWINGS, AND OBTAIN CONCURRENCE FROM THE OWNER PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A DETAILED COST BREAKDOWN OF ALL WORK RELATED TO REMOVING ABANDONING SAID STRUCTURES. THE CONTRACTOR BE REIMBURSED ON A TIME & MATERIALS BASIS OR AT A NEGOTIATED PRICE AS AGREED TO BY THE
- M) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.

GRADING, PAVING & DRAINAGE:

- A) UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO WSDOT/APAWA STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND MUNICIPAL CONSTRUCTION, CURRENT EDITION.
- B) CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE ENGINEER SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS TWO INCHES IN DIAMETER OR LARGER.
- C) STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER, WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE STOCKPILED AS DIRECTED.
- D) IMMEDIATELY FOLLOWING STRIPPING OPERATIONS, COMPACT SUBGRADE TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557 TEST METHOD. SUBGRADE MUST BE INSPECTED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO PLACING EMBANKMENTS, ENGINEERED FILLS OR GRADING FOR BASE ROCK.
- E) ALL FILLS SHALL BE ENGINEERED EXCEPT FOR PERIMETER BERMS. ENGINEERED FILLS SHALL BE CONSTRUCTED IN 8" LIFTS OVER APPROVED SUBGRADES. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557 TEST METHOD.
- F) CRUSHED ROCK SHALL CONFORM TO WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY PER
- G) HMA PAVEMENT SHALL CONFORM TO WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION. MIX TO BE COMMERCIAL, CLASS B, DENSE GRADED-MIX(¾"), GRADE PG. 64-28. PAVEMENT SHALL BE COMPACTED TO MINIMUM OF 91% OF MAXIMUM-
- H) UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN.
- I) FINISH PAVEMENT GRADES AT TRANSITION IN EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE A
- J) ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADES OF THE PAVEMENT SIDEWALK LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE. VERIFY THAT ALL VALVE BOXES AND RISERS ARE CLEAN AND CENTERED OVER THE OPERATION NUT. ADJUSTMENT AFTER PLACEMENT OF FINAL WEARING COURSE WILL NOT BE ALLOWED.
- K) UNLESS OTHERWISE SHOWN ON THE DRAWINGS, NO CUT OR FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2H:1V.
- L) CONTRACTOR SHALL SEED AND MULCH ALL EXPOSED SLOPES AND DISTURBED AREA, WHICH ARE NOT SCHEDULED TO BE SURFACED.
- M) TRENCH EXCAVATION, BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION.

- A) UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY JURISDICTION HAVING AUTHORITY, ALL NEW PRIVATE UTILITIES (POWER, CABLE TV, TELEPHONE & GAS) SHALL BE INSTALLED
- B) CONTRACTOR SHALL COORDINATE POWER, TELEPHONE, AND CABLE TV COMPANY FOR LOCATION OF
- C) POWER, TELEPHONE AND CATY TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH PULL WIRE. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY FOR-SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION. ALL CHANGES IN DIRECTION OF UTILITY CONDUIT RUNS SHALL HAVE LONG RADIUS STEEL BENDS.
- D) CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PRIVATE UTILITY FOR RELOCATION OF POWER
- E) ALL PRIVATE UTILITY STRUCTURES (VAULTS, PEDESTALS, LIGHT POLES., ETC.) SHALL BE SET A

TESTING AND INSPECTION:

- A) THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY THE OWNER'S AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH SUBSEQUENT WORK WHICH COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ALL PROBLEMS ARISING FROM UNINSPECTED WORK.
- B) UNLESS OTHERWISE SPECIFIED, THE FOLLOWING TABLE OUTLINES THE MINIMUM TESTING SCHEDULE FOR THE PROJECT. THIS TESTING SCHEDULE IS NOT COMPLETE, AND DOES NOT RELIEVE THE

REQUIRED T	ESTING AND FREQUENCY	Pai	rty Responsib	le for payment
TILQUITED I	LSTING AND TITEQUENCT		Contractor	Others (See note 1)
STREETS, PARKING	LOTS. PADS, FILLS. ETC.			
SUBGRADE	1 TEST/4000 S.F/LIFT (2 MIN)	√	See note 2 & note 3	
BASEROCK	1 TEST/4000 S.F/LIFT	1	See note 2 & note 3	
ASPHALT	1 TEST/4000 S.F/LIFT (2 MIN)	1	See note 2	
PIPED UTILITIES, ALI	-			
TRENCH BACKFILL	1 TEST/200 FOOT TRENCH/LIFT (2 MIN)	√	See note 2	
WATER				
PRESSURE	PER AWWA REQUIREMENTS (TO BE WITNESSED BY ENGINEER OR APPROVING AGENCY)	√		
BACTERIAL WATER TEST	PER OHD/DOH	√	See note 2	
DISINFECTION	PER AWWA REQUIREMENTS	√		
SANITARY SEWER				
AIR TEST	PER CITY OR APWA WHICHEVER IS MORE STRINGENT	√	See note 4	
MANDREL	95% OF ACTUAL INSIDE DIAMETER	√		
TV INSPECTION	LINES MUST BE CLEANED PRIOR TO TV WORK	√		
MANHOLE	VACUUM TEST EACH MANHOLE. WITNESSED BY ENGINEER OR APPROVING AGENCY.	V	See note 2 & note 4	
STORM				
MANDREL	95% OF ACTUAL INSIDE DIAMETER	√		
TV INSPECTION	LINES MUST BE CLEANED PRIOR TO TV WORK	V		

NOTE 1: OTHERS REFERS TO OWNER. ENGINEER OR APPRASING AGENCY AS APPLICABLE. CONTRACTOR RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTING MUST BE COMPLETED PRIOR TO PERFORMING

NOTE 2: TESTING MUST BE PERFORMED BY AN APPROVED INDEPENDENT TESTING AGENCY.

NOTE 3: IN ADDITION TO IN PLACE DENSITY TESTING, THE SUBGRADE AND BASEROCK SHALL BE PROOF-ROLLED WITH A LOADED 10 YARD DUMP TRUCK PROVIDED BY THE CONTRACTOR. LOCATION AND PATTERN OF PROOF-ROLL TO BE AS DIRECTED BY THE OWNERS AUTHORIZED REPRESENTATIVE.

NOTE 4: CONTRACTOR MAY USE HYDROSTATIC TESTING IN LIEU OF VACUUM AND AIR TESTING.

PRIVATE UTILITIES:

- UNDERGROUND. INSTALLATION OF PRIVATE UTILITIES IN A COMMON TRENCH WITH WATER, SANITARY SEWER OR STORM SEWER IS PROHIBITED.
- VAULTS, PEDESTALS, ETC. ALL ABOVE GRADE FACILITIES SHALL BE PLACED IN A LOCATION AS NOTED
- POLES, VAULTS, ETC.
- MINIMUM OF 1 FOOT FROM ANY PROPERTY CORNER OR SURVEY MONUMENT.

- CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING ALL NECESSARY INSPECTIONS FOR ALL WORK PERFORMED, REGARDLESS OF WHO IS RESPONSIBLE FOR PAYMENT.

TING LU	113. PADS, FILLS. ETC.			
	1 TEST/4000 S.F/LIFT (2 MIN)	√	See note 2 & note 3	
	1 TEST/4000 S.F/LIFT	√	See note 2 & note 3	
	1 TEST/4000 S.F/LIFT (2 MIN)	√	See note 2	
S, ALL				
	1 TEST/200 FOOT TRENCH/LIFT (2 MIN)	✓	See note 2	
ı	PER AWWA REQUIREMENTS (TO BE WITNESSED BY ENGINEER OR APPROVING AGENCY)	√		
TEST I	PER OHD/DOH	√	See note 2	
	PER AWWA REQUIREMENTS	✓		
ER				
	PER CITY OR APWA WHICHEVER IS MORE STRINGENT	√	See note 4	
	95% OF ACTUAL INSIDE DIAMETER	√		
	LINES MUST BE CLEANED PRIOR TO TV WORK	√		
	VACUUM TEST EACH MANHOLE. WITNESSED BY ENGINEER OR APPROVING AGENCY.	√	See note 2 & note 4	
	95% OF ACTUAL INSIDE DIAMETER	1		
	LINES MUST BE CLEANED PRIOR TO TV WORK	✓		
DEFENCE TO	OWNER ENGINEER OF ARRESTME ACENOV AC ARRIVAR		CONTRACTOR	•

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