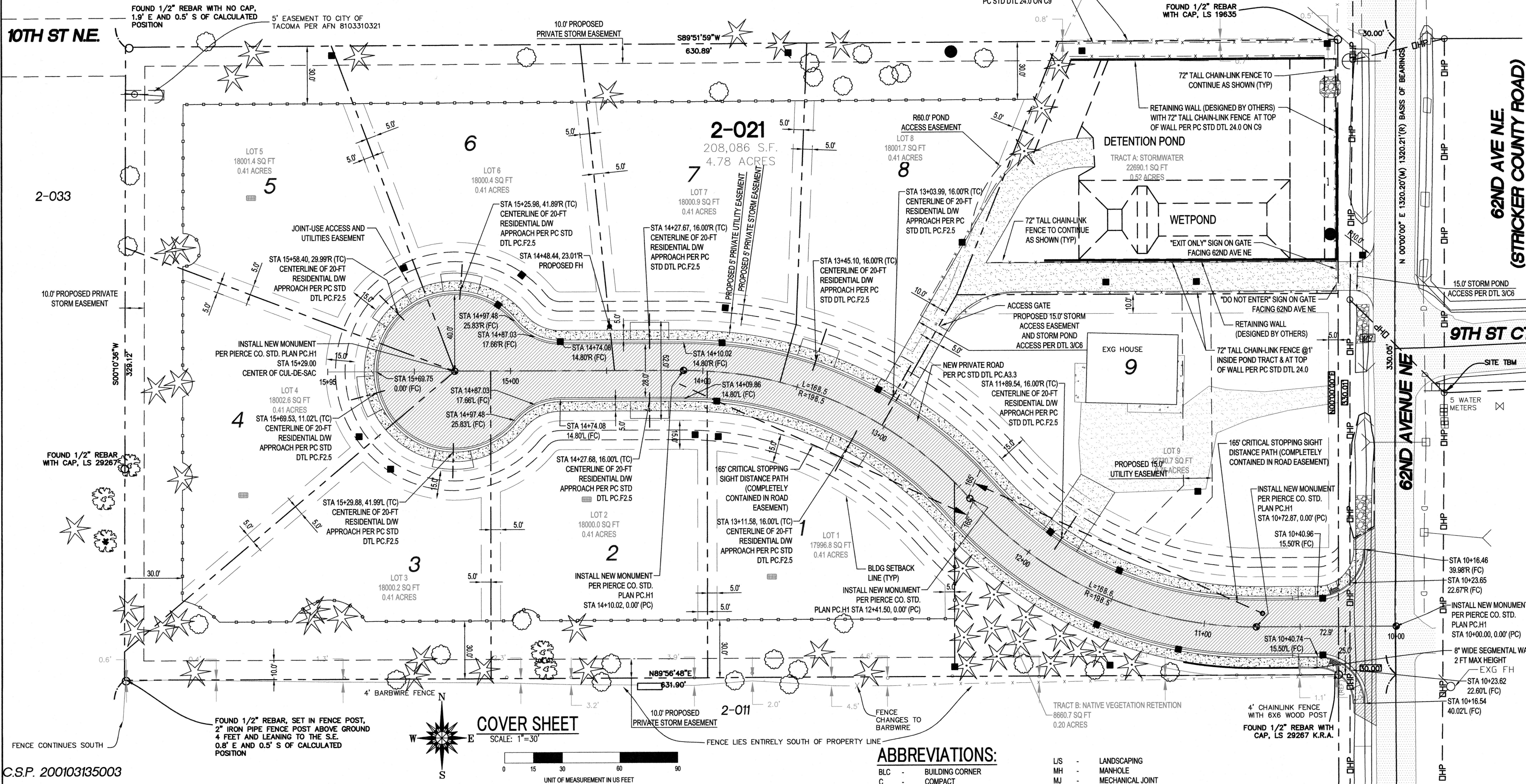


SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST

P.C.S.P. 200402255007



C.S.P. 200103135003

VERTICAL DATUM

PIERCE COUNTY BENCHMARK 77-10 (NGVD29)

THE NORTHWEST CORNER OF THE BOTTOM STEP AT HOUSE #6921, HAVING AN ELEVATION OF 56.68'

SITE TBM IS BENCH TIE NAIL FLUSH IN POWER POLE AT THE INTERSECTION OF 62ND AVE E AND 9TH ST CT E IN THE SE QUADRANT, ELEVATION = 328.85

NGVD29 + 3.51' = NAVD88 AT THE ZHUK PROPERTY (PER APEX ENGINEERING)

UTILITY CONFLICT NOTE

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SHEET INDEX

SHEET NUMBER	SHEET TITLE
C1	COVER SHEET
C2	TESC PLAN
C3	GRADING PLAN
C4	PLAN & PROFILE
C5	STORM PLAN & PROFILE
C6	DETAILS
C7	TESC DETAILS
C8	DETAILS
C9	DETAILS
C10	DETAILS

LEGAL DESCRIPTION

(PER COMMONWEALTH LAND TITLE COMPANY OF PUGET SOUND, LLC TITLE REPORT, ORDER NO. TS - 20297161, DATED NOVEMBER 20, 2007)

THE NORTH HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 21 NORTH, RANGE 4 EAST OF THE W.M.;

EXCEPT 62ND AVENUE NE (STRICKE COUNTY ROAD)

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

BASIS OF BEARINGS

RECORD OF SURVEY FILED UNDER PIERCE COUNTY AFN 9508090229

ASSUMED NORTH, FROM THE MONUMENTED EAST LINE OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 21 NORTH, RANGE 4 EAST OF THE W.M., PIERCE COUNTY WASHINGTON BEARING: N00°00'00"E

ABBREVIATIONS:

BLC	-	BUILDING CORNER	LS	-	LANDSCAPING
C	-	COMPACT	MH	-	MANHOLE
CB	-	CATCH BASIN	MJ	-	MECHANICAL JOINT
CL	-	CLASS	OH	-	OVERHEAD
CO	-	CLEAN OUT	PL	-	PROPERTY LINE
COA	-	CITY OF AUBURN	R	-	RADIUS
D	-	STORM DRAIN	REF	-	REFERENCE DRAWING
DDCV	-	DOUBLE DETECTOR CHECK VALVE	RW	-	RIGHT-OF-WAY
DI	-	DUCTILE IRON	S	-	SANITARY SEWER
DS	-	DOWNSPOUT	SQ FT	-	SQUARE FEET
DTL	-	DETAIL	STD	-	STANDARD
DW	-	DRIVEWAY	SW	-	SIDEWALK
EI	-	ELEVATION	T	-	TELEPHONE
ESMT	-	EASEMENT	TC	-	TOP OF CURB
EXG	-	EXISTING	TV	-	TEST PIT
FC	-	FACE OF CURB	U.N.O	-	UNLESS NOTED OTHERWISE
FD	-	FOUNDATION DRAIN	YL	-	YARD LIGHT
FDC	-	FIRE DEPARTMENT CONNECTION	S	-	SOUTH
FF	-	FINISHED FLOOR	W	-	WEST
FHY	-	FIRE HYDRANT	E	-	EAST
FL	-	FLANGE JOINT	N	-	NORTH
HIC	-	HANDICAP	NW	-	NORTHWEST
HPC	-	HORIZONTAL POINT OF CURVATURE	SW	-	SOUTHWEST
HPT	-	HORIZONTAL POINT OF TANGENCY	NE	-	NORTHEAST
IE	-	INVERT ELEVATION	SE	-	SOUTHEAST
LF	-	LINEAR FEET	Ø	-	DIAMETER

STORMWATER POND ACCESS NOTE:

ACCESS TO THE STORMWATER POND SHALL BE FROM THE INTERNAL PLATS PRIVATE ROAD. MAINTENANCE VEHICLES ARE ALLOWED TO EXIT ONTO 62ND AVENUE NE FROM THE POND TRACT.

PRIVATE IMPROVEMENTS

DEPARTMENT ENGINEER JEFF KIDSTON DATE 8-27-19
PIERCE COUNTY ORDINANCE NUMBER(S) 2004-66S
THESE ACTIONS MUST BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION:
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ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A PERMIT FROM THE PIERCE COUNTY PUBLIC WORKS DEPARTMENT.

VICINITY MAP

OWNER

LEO ZHUK & SERGY ZHUK
912 62ND AVE NE
TACOMA, WA 98422
(253) 906-8970

SURVEYOR

APEX ENGINEERING PLLC
2601 SOUTH 35TH, SUITE 200
TACOMA, WA 98409
(253) 473-4494

LEGEND

DESCRIPTION	NEW	EXISTING
STORM SEWER	D	D
SANITARY SEWER	S	S
WATER	W	W
CONTOURS	50	50
SILT FENCE	F	
POWER (OHP/UGP)	OHP/UGP	OHP/UGP
ASPHALT PAVING		
PERVIOUS CONC.		
CONC. PAVING		
GRAVEL SURFACE		
LANDSCAPING		
CONCRETE CURB		
SPOT ELEVATIONS		
PARKING COUNT		
FOUND CASE MON		
FIRE HYDRANT		
GAS METER		
GUY WIRE ANCHOR		
JUNCTION BOX		
PARKING LOT LIGHT		
POWER POLE W/TRANSFORMER		
POWER VAULT		
ROCKERY		
SIGN		
SIGNAL POLE		
STORM CATCHBASIN		
STREET LIGHT		
TELEPHONE JUNCTION BOX		
TELEPHONE VAULT		
UNDERGROUND POWER		
UTILITY POLE		
UTILITY MANHOLE		
WATER METER		
WATER VALVE		

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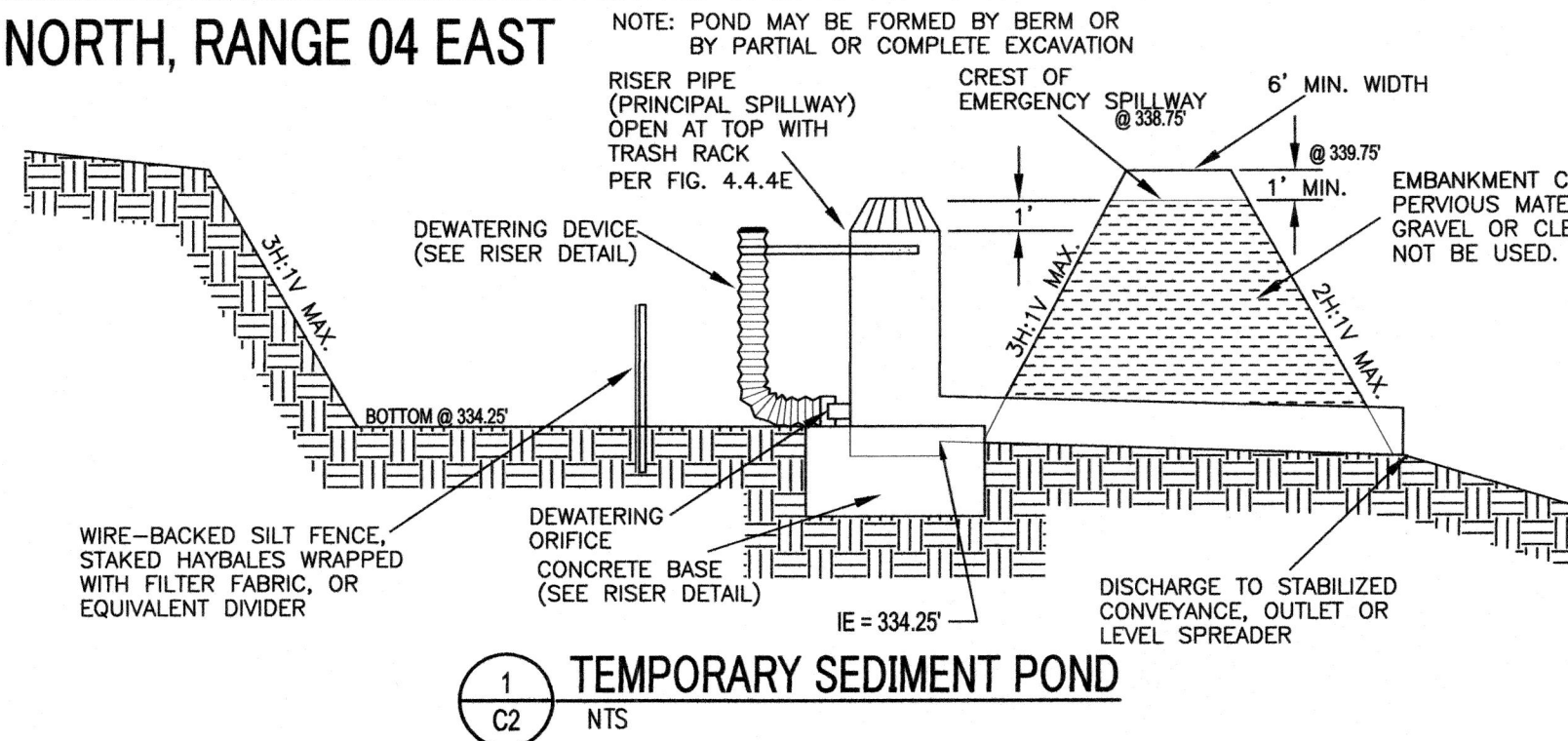
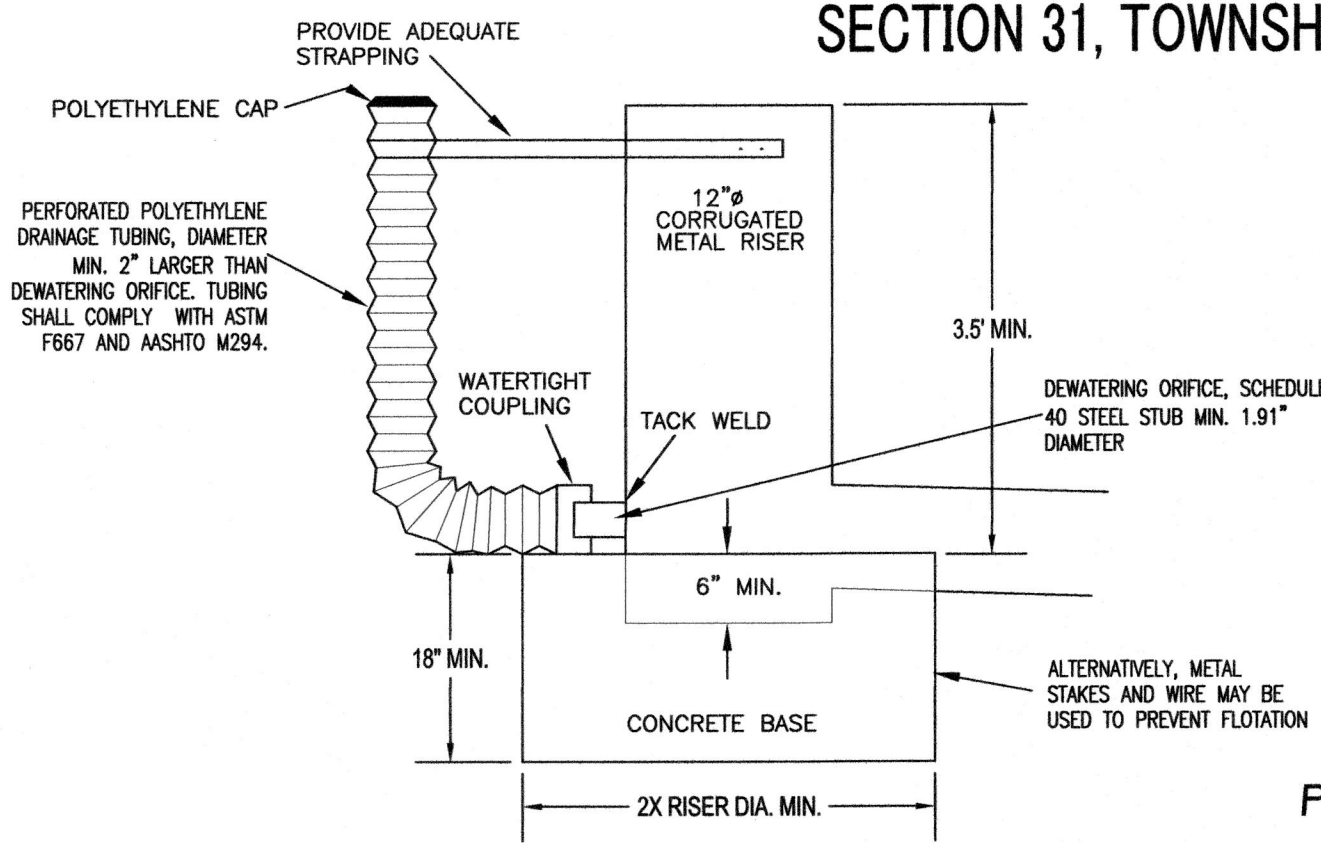
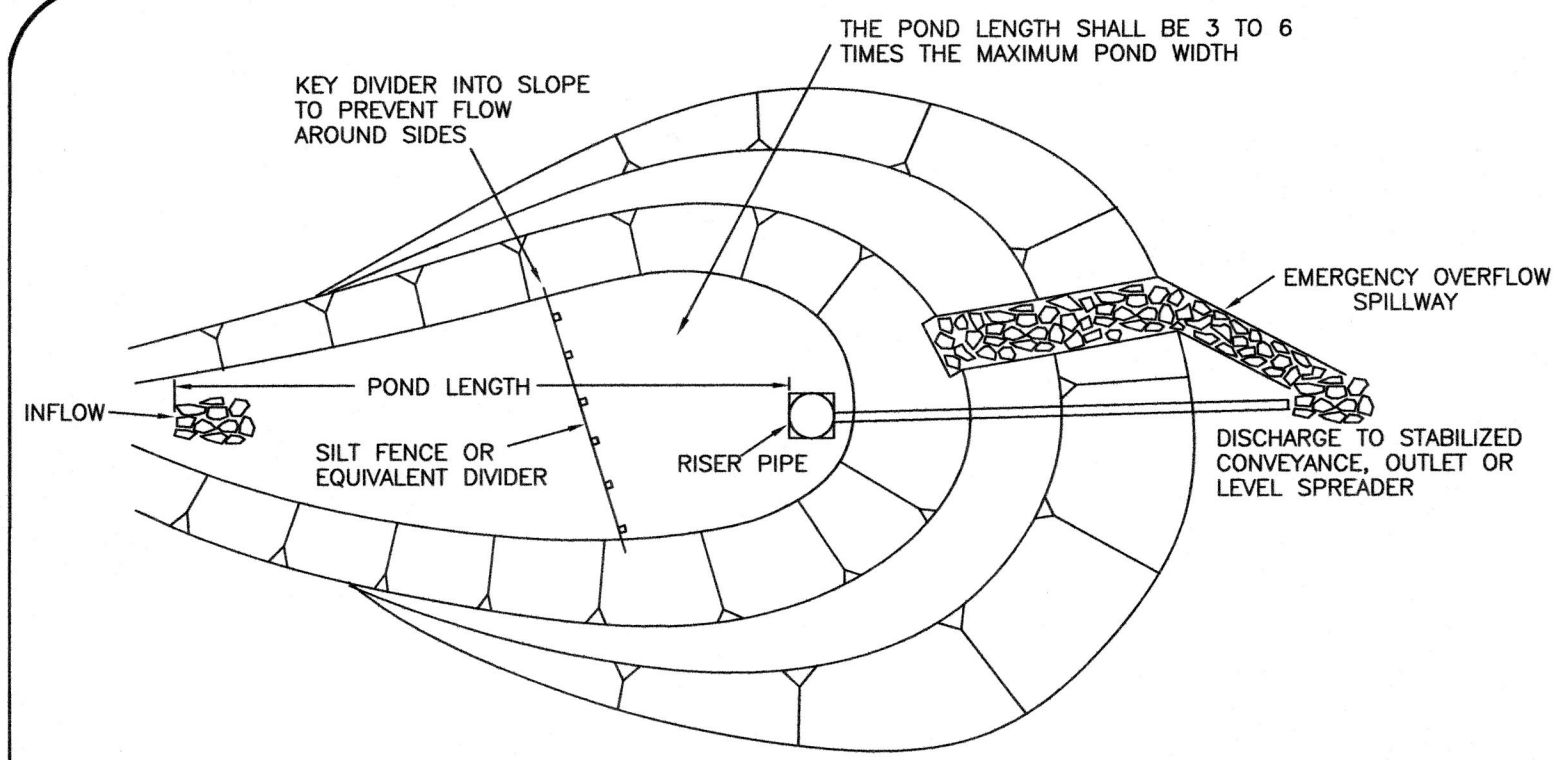
ZHUK PLAT

COVER SHEET

REVISIONS	DATE	DESCRIPTION
SYN		

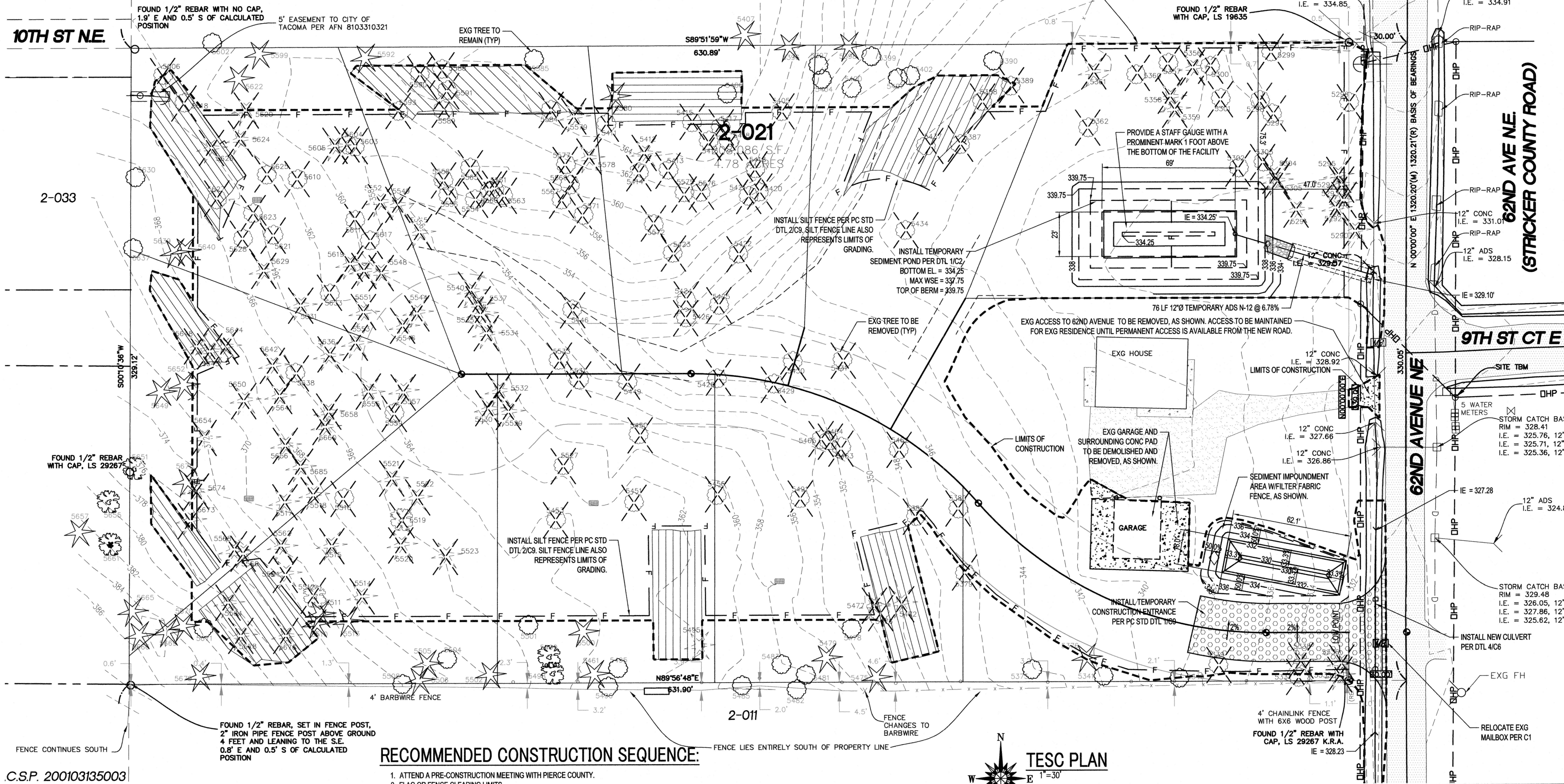


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JOB NO.	2015003
SHEET NO.	C1 OF 10



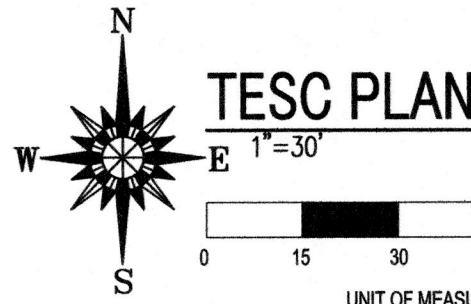
SEDIMENT POND MAINTENANCE STANDARDS

1. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN IT REACHES 1-FOOT IN DEPTH.
2. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED



RECOMMENDED CONSTRUCTION SEQUENCE:

1. ATTEND A PRE-CONSTRUCTION MEETING WITH PIERCE COUNTY.
2. FLAG OR FENCE CLEARING LIMITS.
3. INSTALL CATCH BASIN PROTECTION, WHERE REQUIRED.
4. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
5. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
6. CONSTRUCT SEDIMENT PONDS AND TRAPS, AS SHOWN ON PLANS.
7. GRADE AND STABILIZE CONSTRUCTION ROADS.
8. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
9. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH PIERCE COUNTY STANDARDS, THE DEPARTMENT OF ECOLOGY'S STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
10. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH PIERCE COUNTY AND THE DEPARTMENT OF ECOLOGY'S STANDARDS.
11. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
12. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
13. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS PER THE PIERCE COUNTY STORMWATER MANUAL.
14. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED, IF APPROPRIATE.



UTILITY CONFLICT NOTE

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C.S.P. 200103135003

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER	JEFF KIDSTON	DATE	8-27-19
PIERCE COUNTY ORDINANCE NUMBER(S)	2004-565		
THESE ACTIONS MUST BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION. AT 735.76 - 3769 ... TO COORDINATE THE PRECONSTRUCTION MEETING AND COUNTY INSPECTIONS.			
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CONSULTING
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912 62ND AVENUE NE TACOMA, WA

PO BOX 162 AUBURN, WA 98071

(253) 737-4173

APCE@APConsultingEngineers.com

JOB TITLE

ZHUK PLAT

TESC PLAN

DATE

2/17/15

DRAWN

AEP

CHECKED

AEP

JOB NO.

2015003

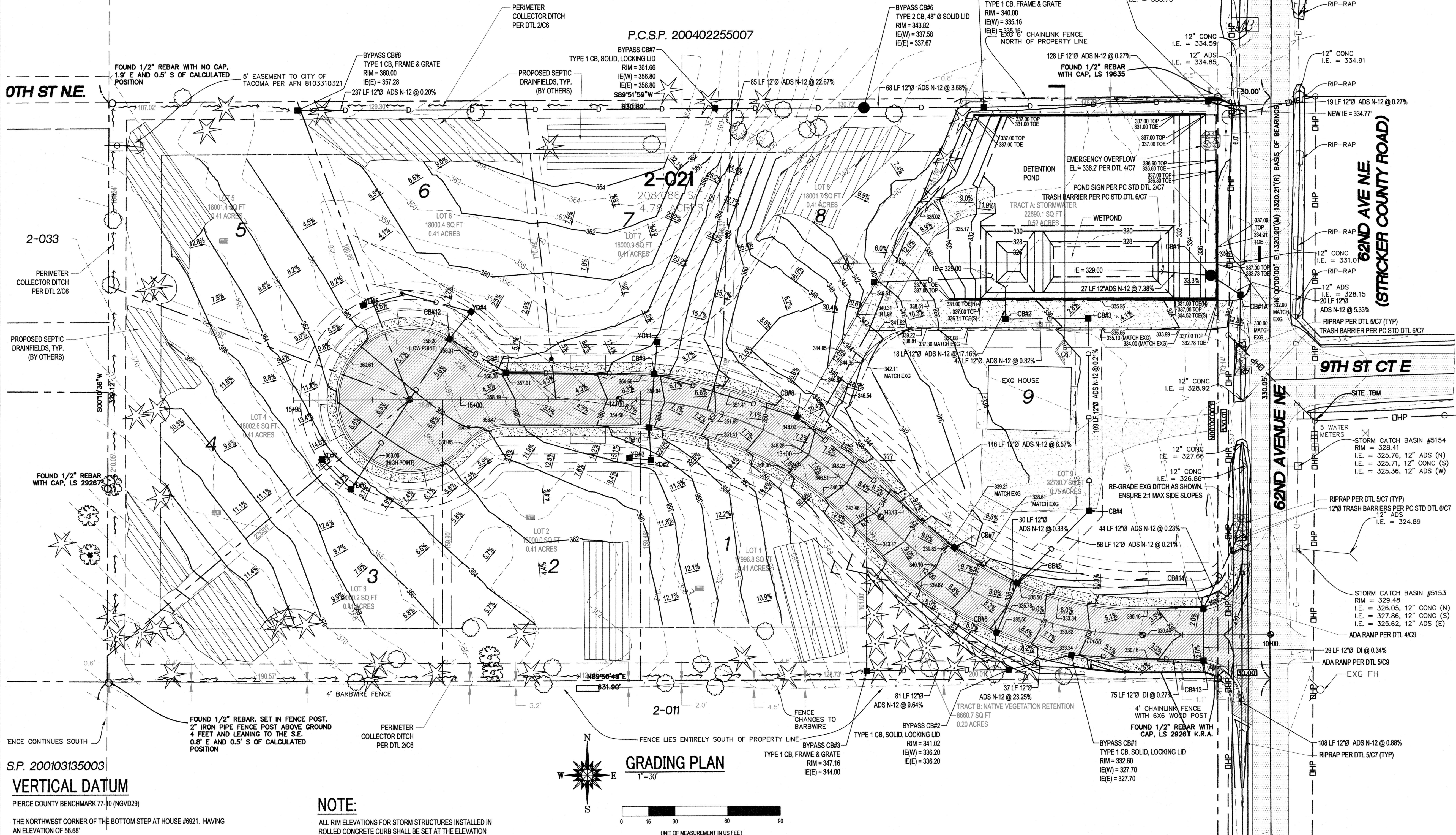
SHEET NO.

C2 OF 10

SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST

CB #1:

THIS STRUCTURE WILL SERVE AS THE CONTROL STRUCTURE FOR THE POND AND IS TO BE CONSTRUCTED PER DTL 1/C6



S.P. 200103135003

VERTICAL DATUM

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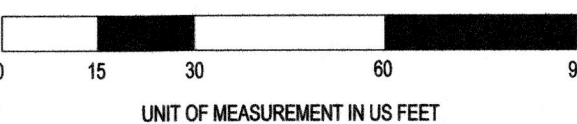
ALL RIM ELEVATIONS FOR STORM STRUCTURES INSTALLED IN ROLLED CONCRETE CURB SHALL BE SET AT THE ELEVATION AT THE FRONT OF THE CURB AND ARE TO BE FLUSH WITH THE NEW ASPHALT PAVEMENT FINISHED GRADE.

CATCH BASIN STENCIL NOTE:

CATCH BASIN SHALL BE MARKED WITH A FISH STENCIL PER PC STD DTL 3/C7.

GRADING PLAN

1"=30'



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ZHUK PLAT

GRADING PLAN

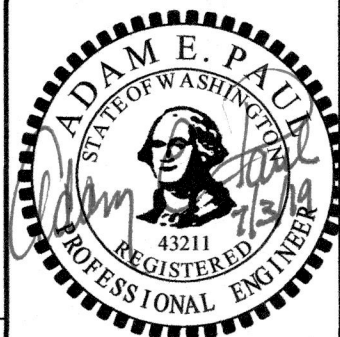
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DATE 2/17/15

DRAWN AEP

CHECKED AEP

JOB NO. 2015003

SHEET NO.

C3 OF 10

PO BOX 162, AUBURN, WA 98071

(253) 737-4173

APCE@APConsultingEngineers.com

TACOMA, WA

912 62ND AVENUE NE

PRIVATE IMPROVEMENTS

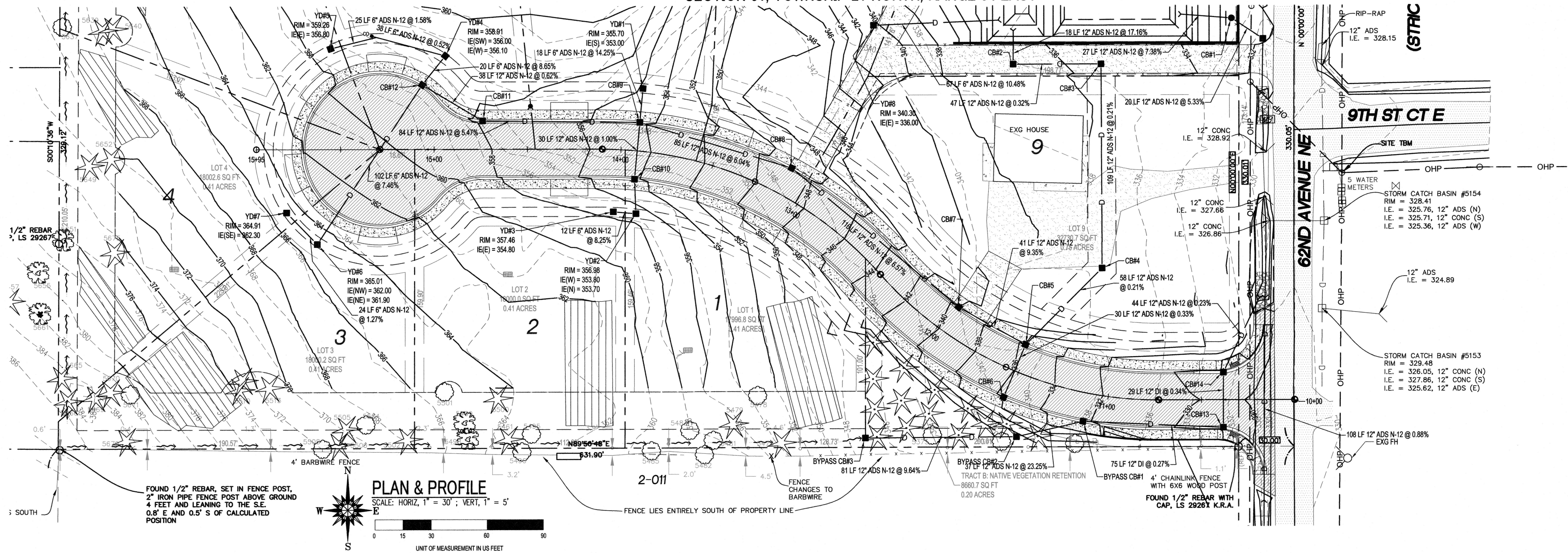
DEVELOPMENT ENGINEER JEFF KIDSTON DATE 8-27-19

PIERCE COUNTY ORDINANCE NUMBER(S) 2004-565

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SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST



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CIVIL ENGINEERING

PO BOX 162, AUBURN, WA 98071

(253) 797-4473

APCE@APConsultingEngineers.com

ZHUK PLAT

TACOMA, WA

912 62ND AVENUE NE

JOB TITLE

PLAN & PROFILE

SHEET TITLE

REVISIONS

DATE

SYMBOL

DESCRIPTION

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DESCRIPTION

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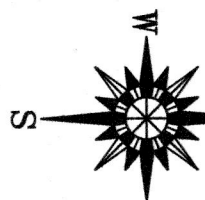
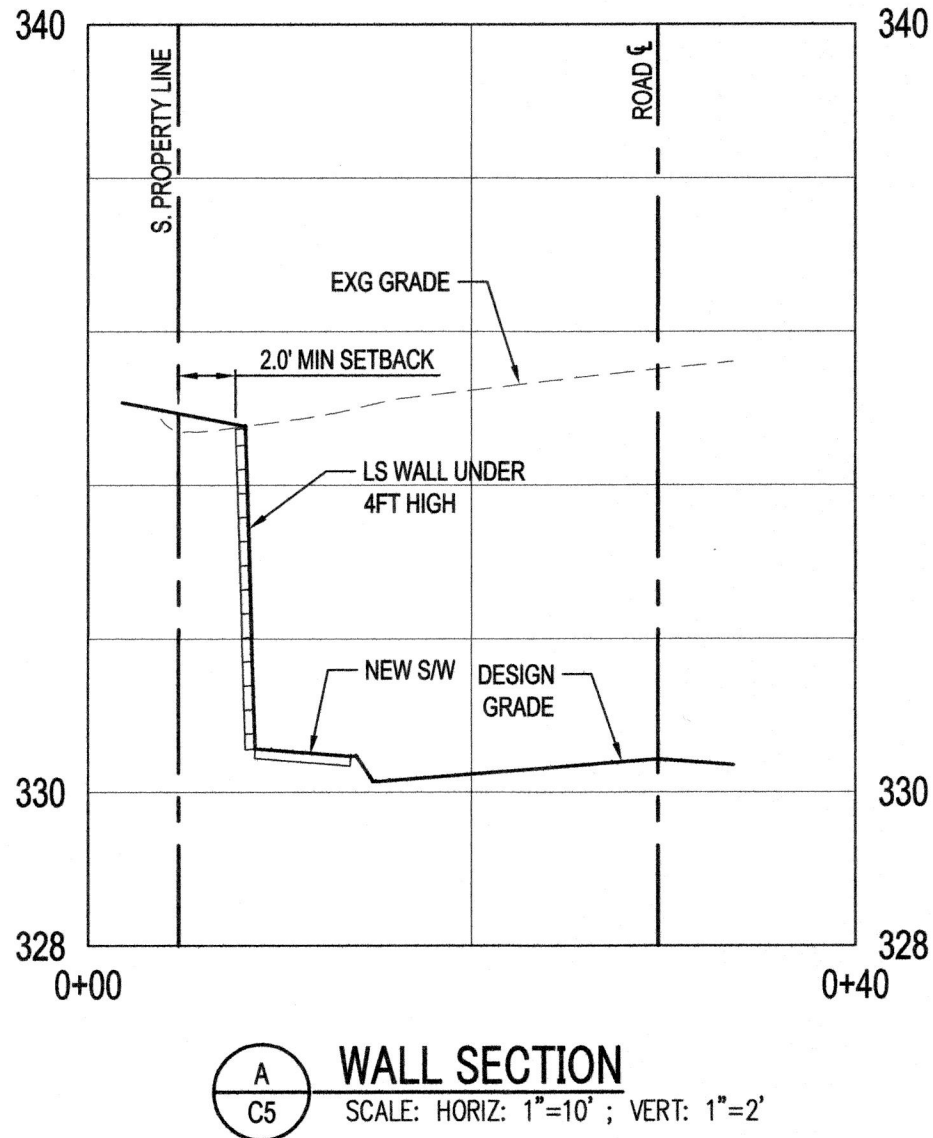
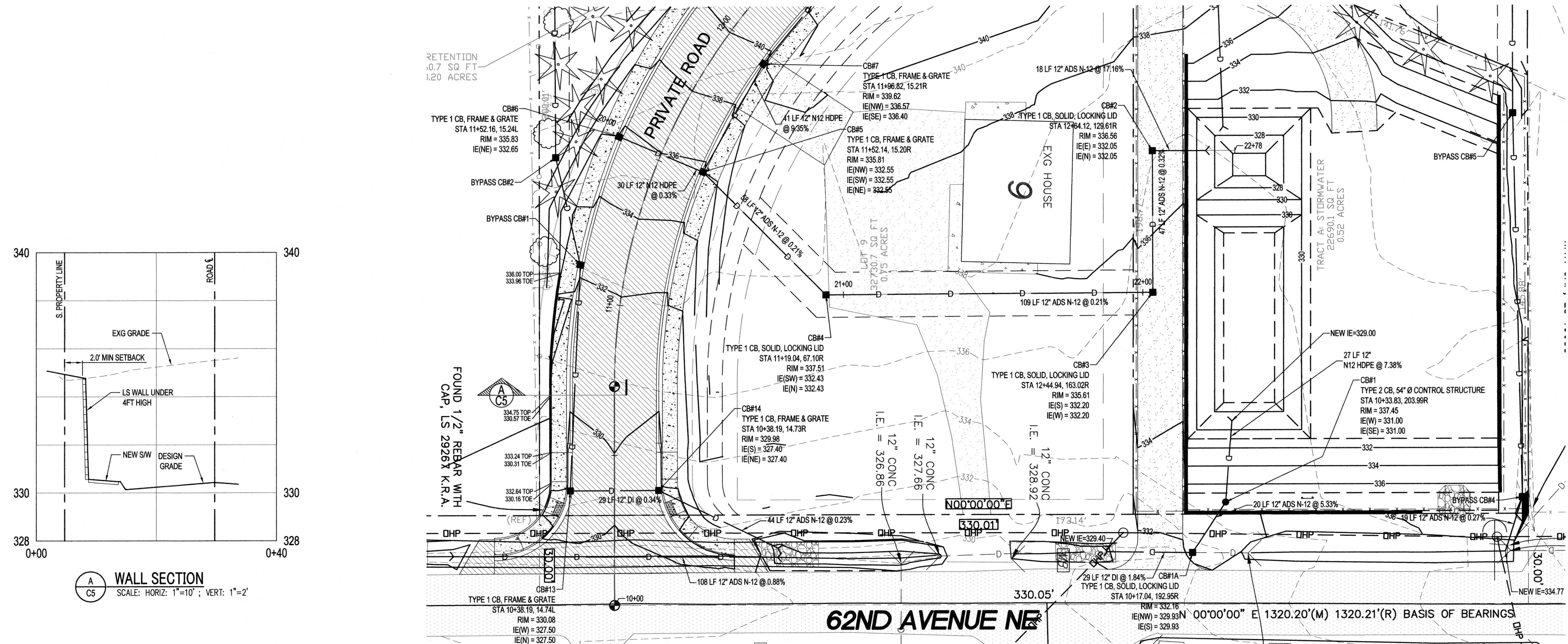
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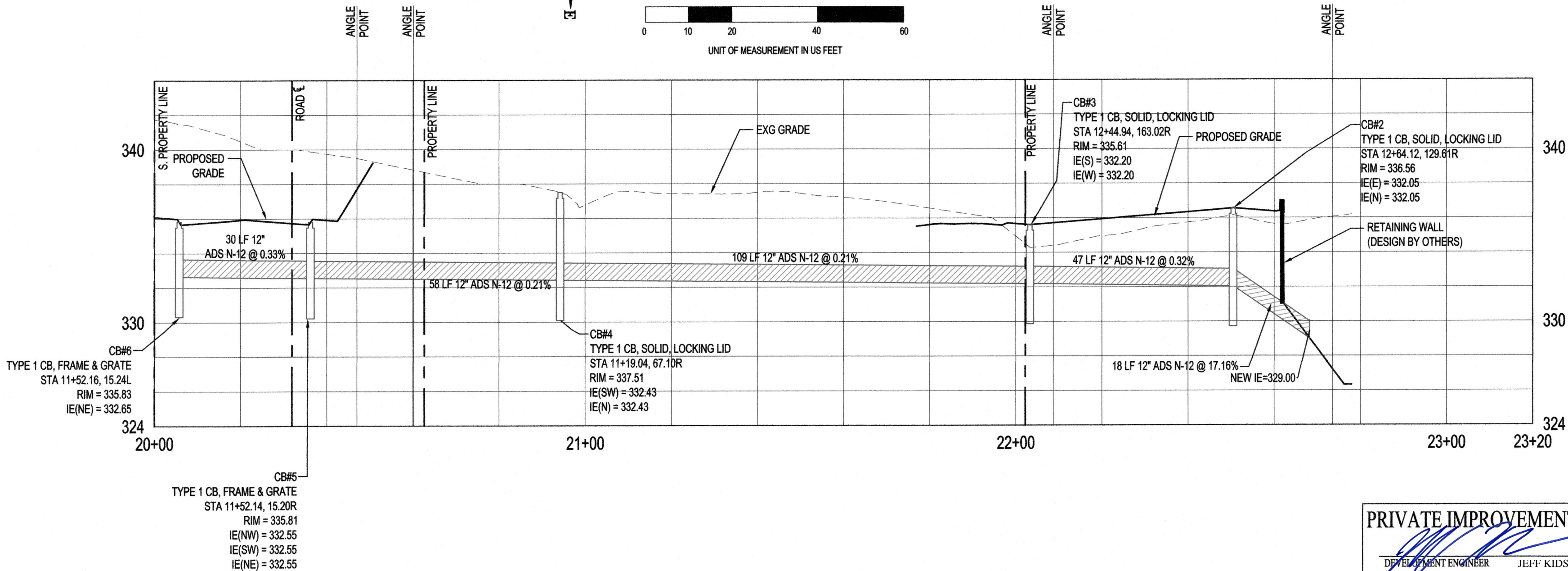
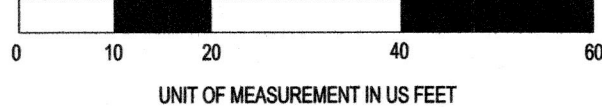
C4 OF 10

SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST



PLAN & PROFILE

SCALE: HORIZ: 1"=20' ; VERT: 1"=5'



VERTICAL DATUM

PIERCE COUNTY BENCHMARK 77-10 (NGVD29)

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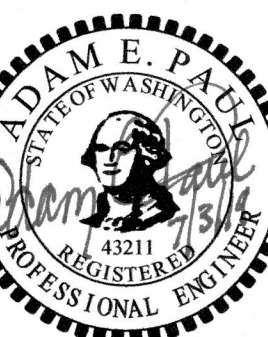
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PRIVATE IMPROVEMENTS

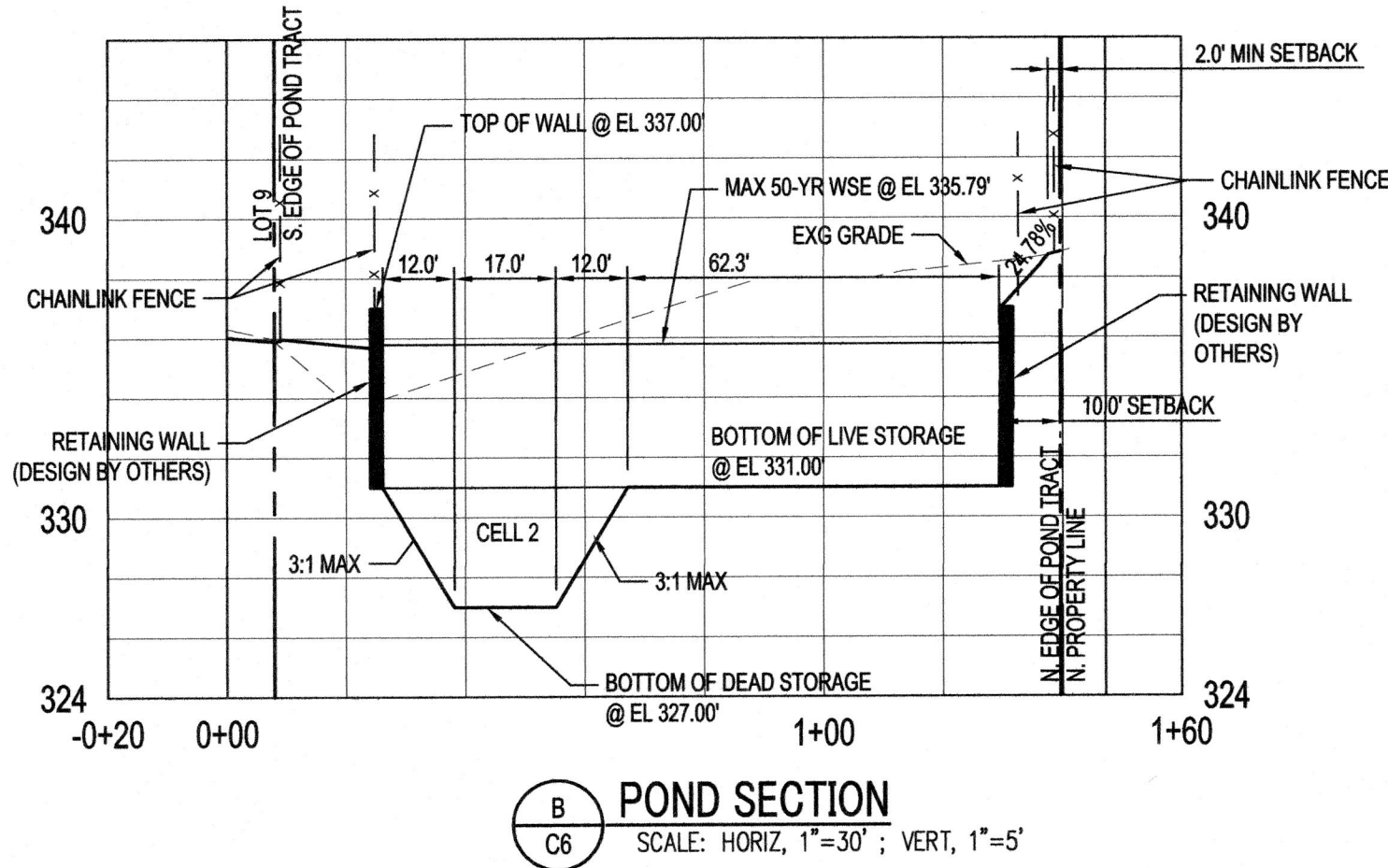
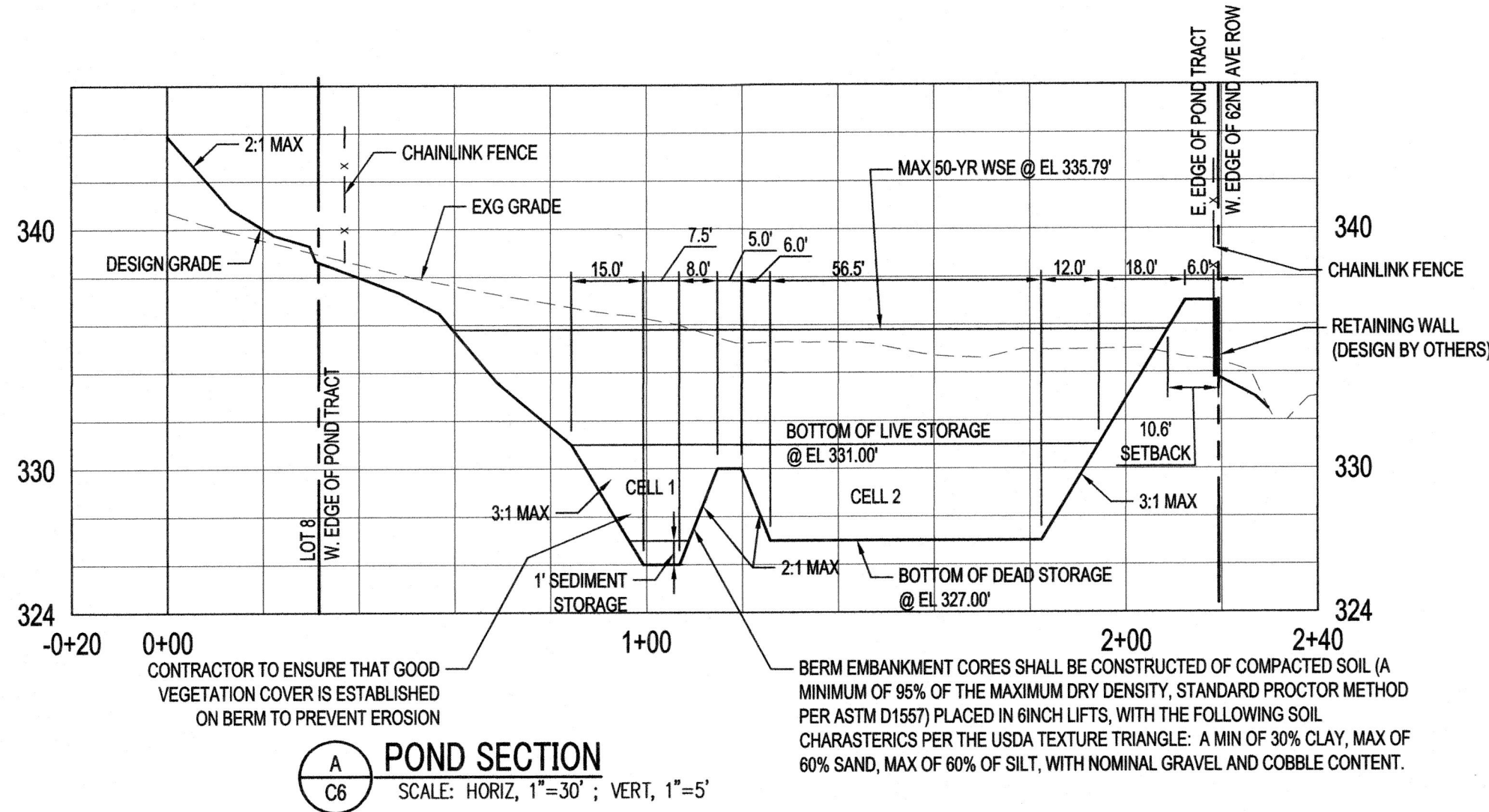
DEVELOPMENT ENGINEER JEFF KIDSTON DATE 8-27-19

PIERCE COUNTY ORDINANCE NUMBER(S) 2004-56S

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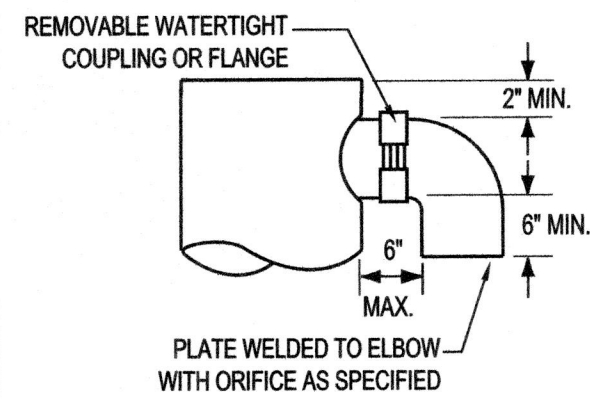
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SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST

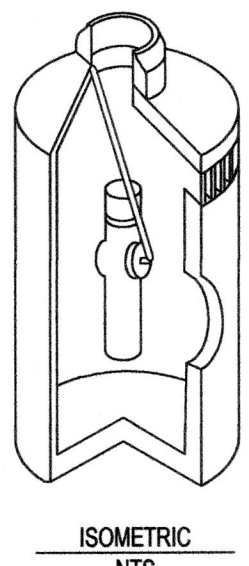


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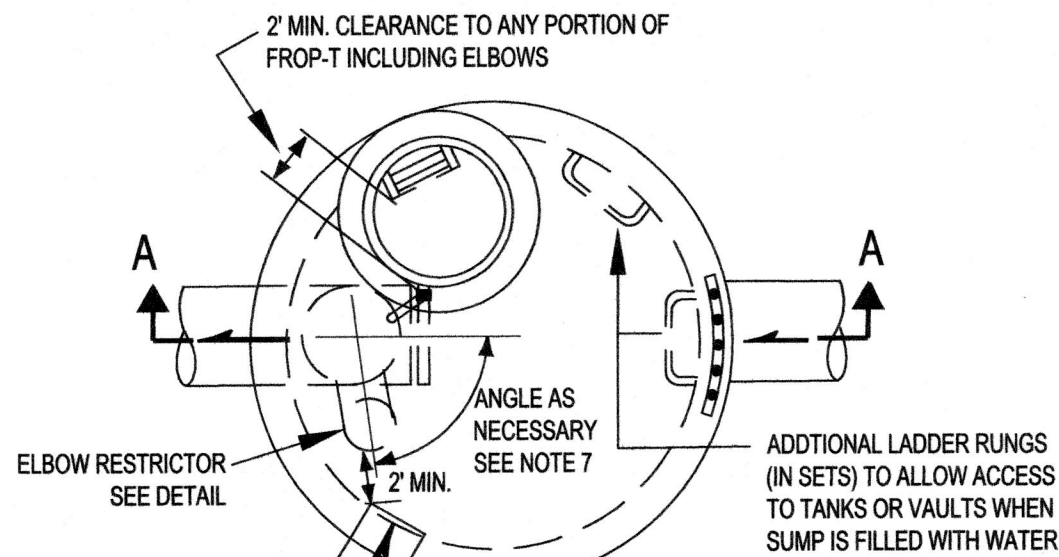
- USE A MINIMUM OF A 54" DIAMETER TYPE 2 CATCH BASIN.
- OUTLET CAPACITY: 50-YEAR DEVELOPED PEAK FLOW.
- METAL PARTS: CORROSION RESISTANT. NON-GALVANIZED PARTS PREFERRED. GALVANIZED PIPE PARTS TO HAVE ASPHALT TREATMENT 1.
- FRAME AND LADDER OR STEPS OFFSET SO:
A. CLEANOUT GATE IS VISIBLE FROM TOP.
B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
C. FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE: OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/8".
- PROVIDE AT LEAST ONE 3" X 0.090 INCHES SUPPORT BRACKET ANCHORED TO CONCRETE WALL. (MAXIMUM 3'-0" VERTICAL SPACING)
- LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE MINIMUM CLEARANCE AS SHOWN.
- LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS AND VAULTS TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.



ELBOW RESTRICTOR DETAIL
NTS



ISOMETRIC
NTS



PLAN VIEW
NTS

VERTICAL DATUM

PIERCE COUNTY BENCHMARK 77-10 (NGVD29)

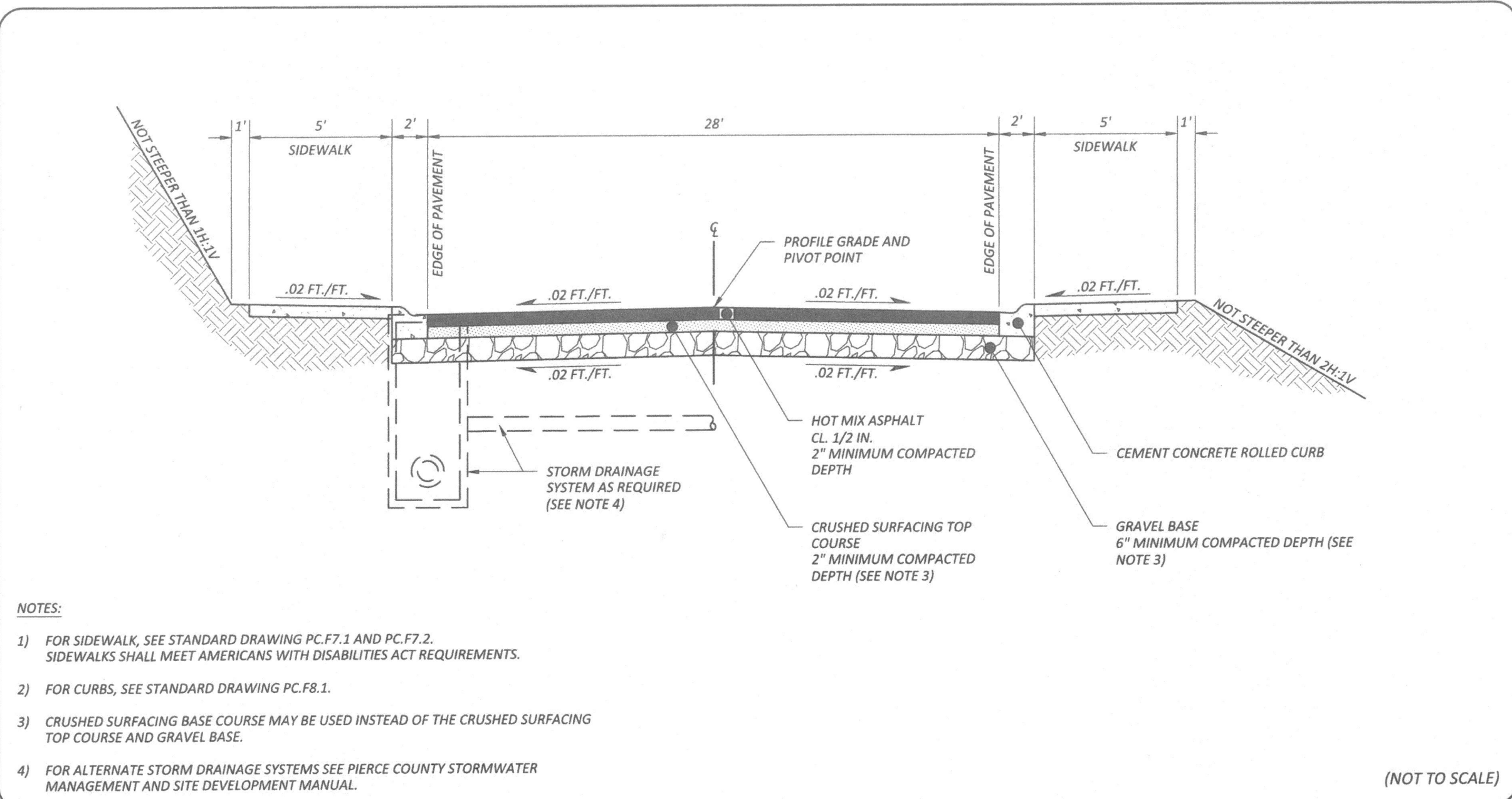
THE NORTHWEST CORNER OF THE BOTTOM STEP AT HOUSE #6921. HAVING AN ELEVATION OF 56.68'

SITE TBM IS BENCH TIE NAIL FLUSH IN POWER POLE AT THE INTERSECTION OF 62ND AVE E AND 9TH ST CT E IN THE SE QUADRANT, ELEVATION = 328.85

NGVD29 + 3.51' = NAVD88 AT THE ZHUK PROPERTY (PER APEX ENGINEERING)

UTILITY CONFLICT NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE NOT GUARANTEED AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT AP CONSULTING ENGINEERS PLLC TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



NOTES:

- FOR SIDEWALK, SEE STANDARD DRAWING PC.F7.1 AND PC.F7.2. SIDEWALKS SHALL MEET AMERICANS WITH DISABILITIES ACT REQUIREMENTS.
- FOR CURBS, SEE STANDARD DRAWING PC.F8.1.
- CRUSHED SURFACING BASE COURSE MAY BE USED INSTEAD OF THE CRUSHED SURFACING TOP COURSE AND GRAVEL BASE.
- FOR ALTERNATE STORM DRAINAGE SYSTEMS SEE PIERCE COUNTY STORMWATER MANAGEMENT AND SITE DEVELOPMENT MANUAL.



Pierce County
Public Works
Office of the County Engineer
Tacoma Mall Office Building
4301 South Pine Street, Suite 628
Tacoma, Washington 98409-7207
An APWA Accredited Agency

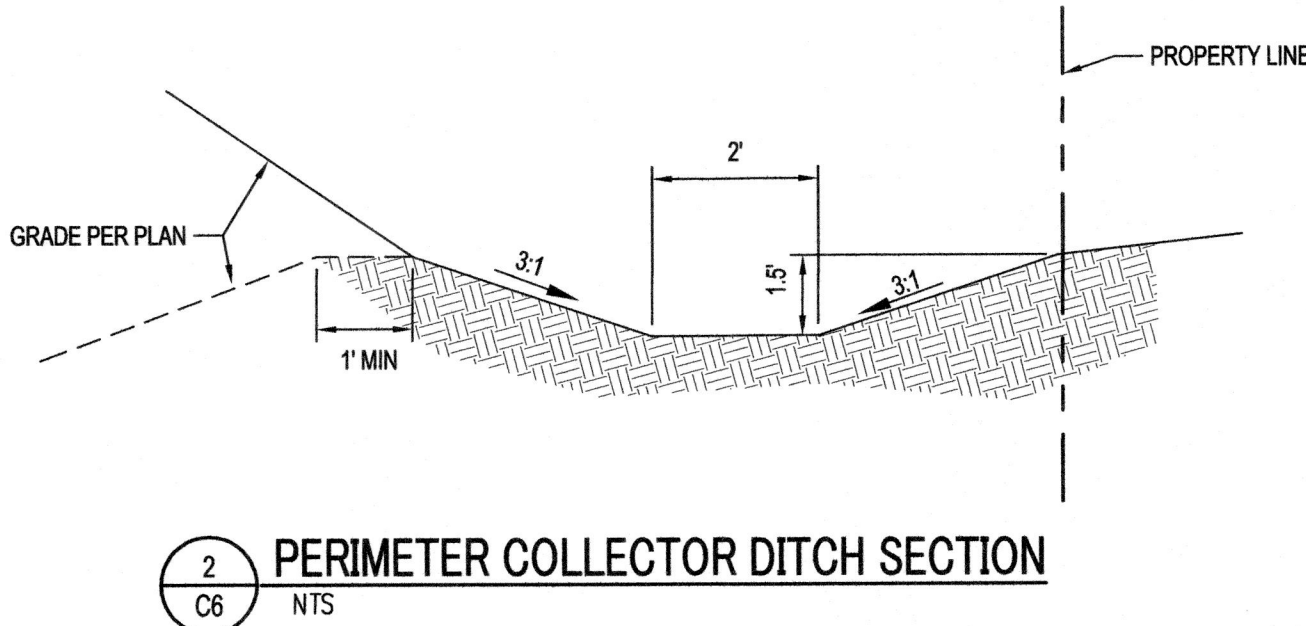


BRIAN D. STACY, P.E.
COUNTY ENGINEER

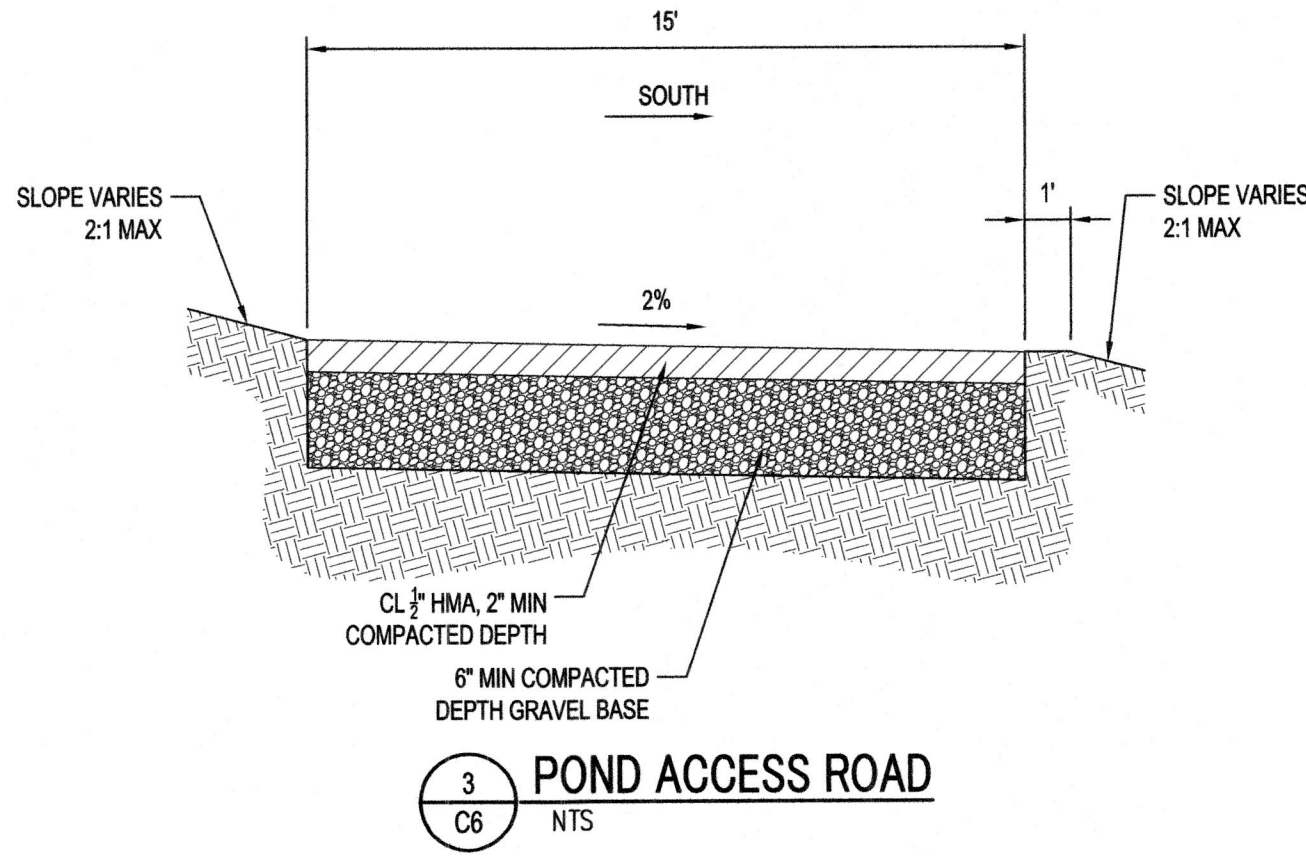
Office of the County Engineer

**LOCAL ROAD MINOR
AND CUL-DE-SAC
WITH CEMENT
CONCRETE ROLLED
CURB AND SIDEWALK,
CLOSED DRAINAGE**

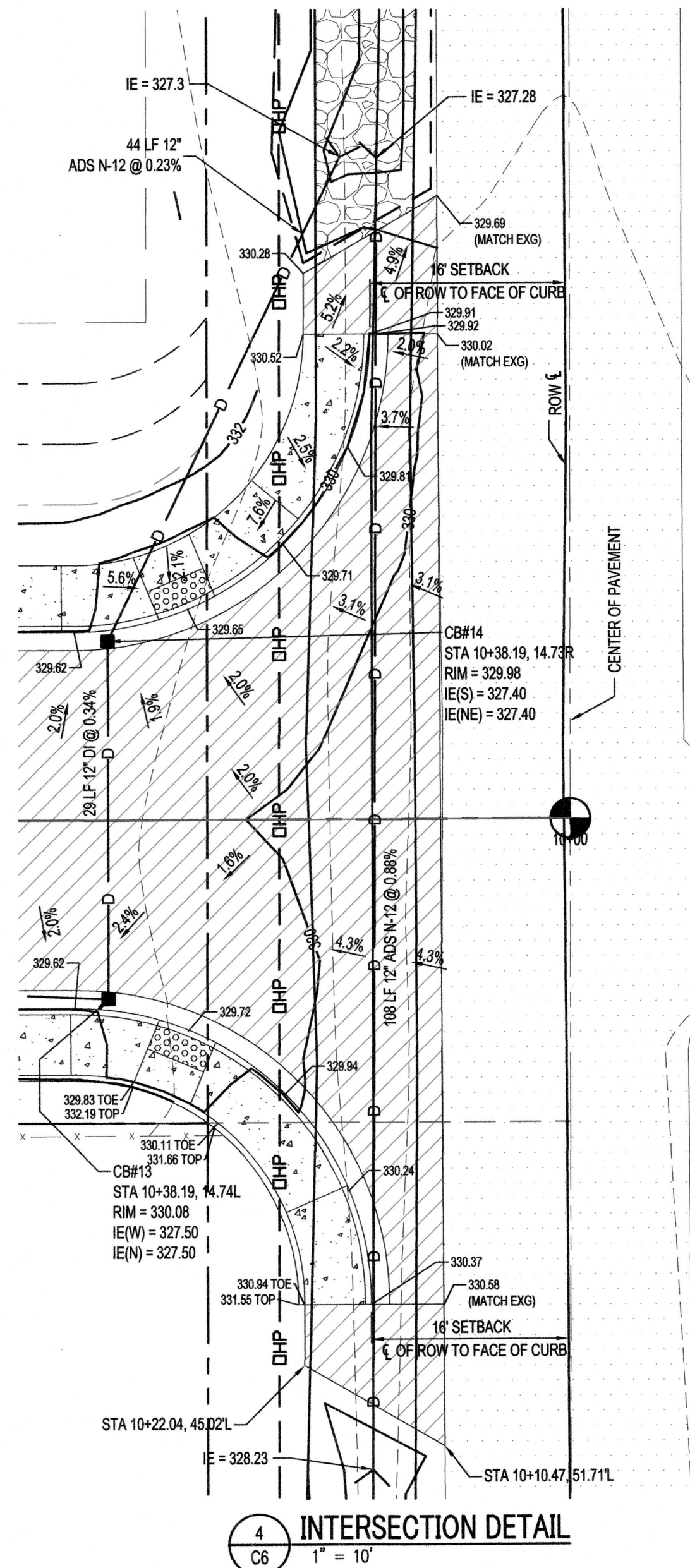
PC.A3.3



PERIMETER COLLECTOR DITCH SECTION
NTS



POND ACCESS ROAD
NTS



INTERSECTION DETAIL
1" = 10'

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER: JEFF KIDSTON

DATE: 8-27-19

PIERCE COUNTY ORDINANCE NUMBER(S):

2004-56S

THESE ACTIONS MUST BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION:

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CONSULTING
ENGINEERS PLLC
CIVIL ENGINEERING

AP

PO BOX 182, AUBURN, WA 98001

APCE@APConsultingEngineers.com

(253) 737-4173

ZHUK PLAT

JOB TITLE

SECTIONS & DETAILS

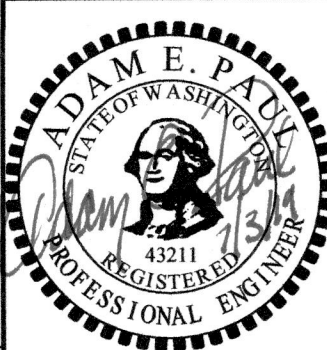
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DATE

REVISIONS

DESCRIPTION

SYMBOL



DATE: 2/17/15

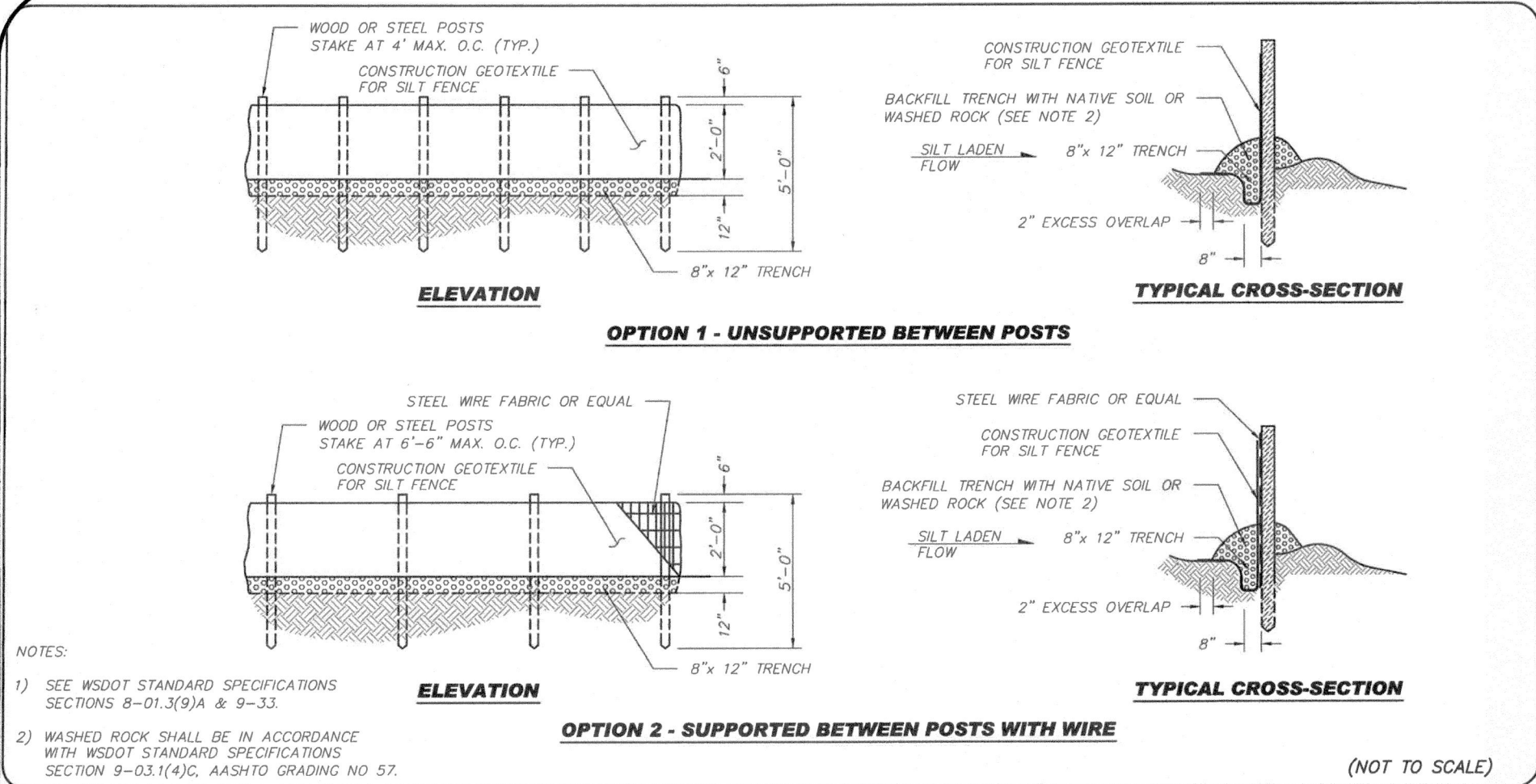
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CHECKED: AEP

JOB NO.: 2015003

SHEET NO.:

C6 OF 10

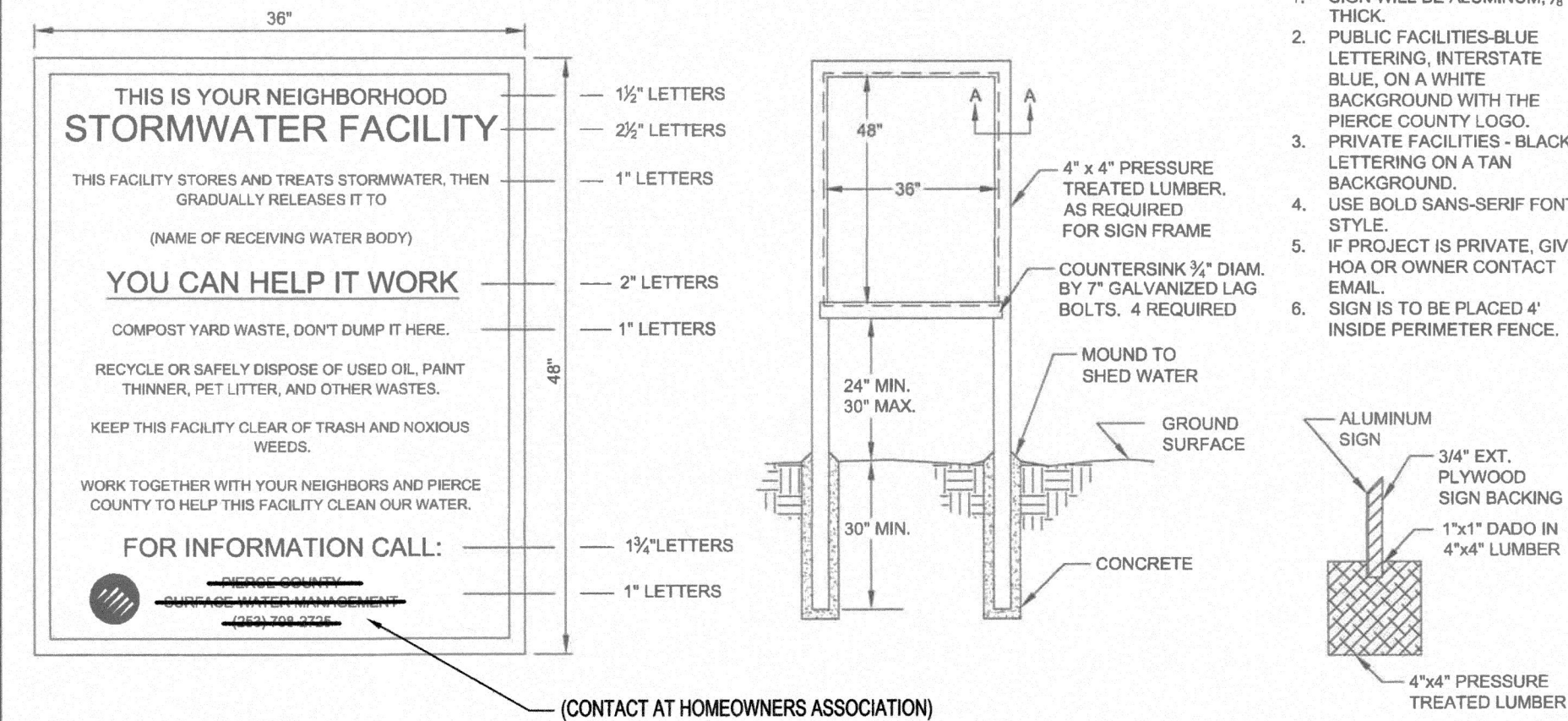



 Pierce County Public Works and Utilities Office of the County Engineer Tacoma Mail Office Building 4301 South Pine Street, Suite 446 Tacoma, WA 98409-7207	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DATE</td><td>REVISION</td><td>APPROVED</td><td>DRAWN</td><td></td><td></td></tr></table>																																											DATE	REVISION	APPROVED	DRAWN			 BRIAN D. STACY, P.E. COUNTY ENGINEER <i>7-14-09</i> Office of the County Engineer	SILT FENCE PC.L2.1
DATE	REVISION	APPROVED	DRAWN																																																

Standard Drawings - Section L

1
C7
SILT FENCE
NTS

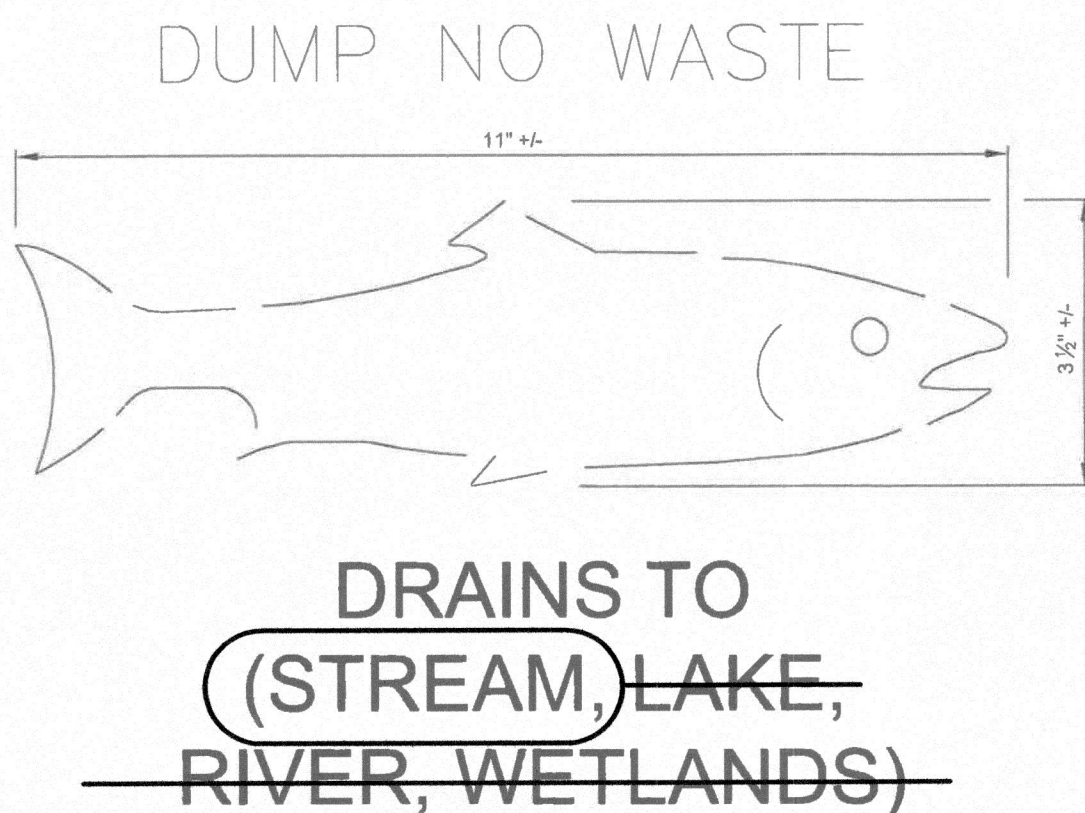
SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST




 Pierce County Public Works Surface Water Management Division 2702 S 42nd Street, Suite 201 Tacoma, Washington 98409-7322						HANS P. HUNGER, P.E. C.I.P. MANAGER	ALUMINUM PROJECT SIGN	
	6/2015	2015 SWMM UPDATE	HPH	RUTKOSKY				
	6/2012	2012 SWMM UPDATE	HPH	RUTKOSKY				
	5/2008	PUBLISH DATE	HPH	RUTKOSKY				
	DATE	REVISION	PUBLISH DATE	APPRD	DRAWN			
Storm Water Manual Details - Section E						Surface Water Management Division	(NOT TO SCALE) 1.0	

Storm Water Manual Details - Section F

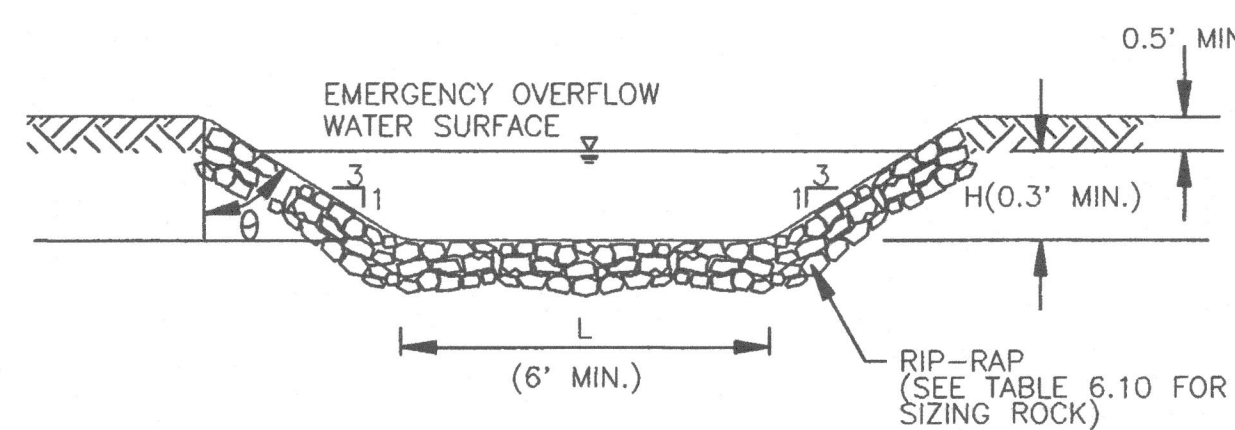
2
C7
POND SIGN
NTS



 Pierce County Public Works Surface Water Management Division 2702 S 42nd Street, Suite 201 Tacoma, Washington 98409-7322																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Storm Water Manual Details - Section A

3
C7
CATCH BASIN STENCIL
NTS



THE EMERGENCY OVERFLOW SPILLWAY WEIR SECTION CAN BE DESIGNED TO PASS THE 100-YEAR, 24-HOUR DESIGN STORM EVENT FOR DEVELOPED CONDITIONS AS FOLLOWS:

$$\text{FOR THIS WEIR, } Q_{100} = C(2g)^{1/2} [(2/3) L H^{3/2} + 8/15 \tan \theta H^{5/2}]$$


USING $C = 0.6$ (DISCHARGE COEFFICIENT);
 $\tan \theta = 3$ (FOR 3:1 SLOPES);
 $\theta = 72^\circ$;

THE EQUATION BECOMES: $Q_{100} = 3.21(LH^{3/2} + 2.4H^{5/2})$

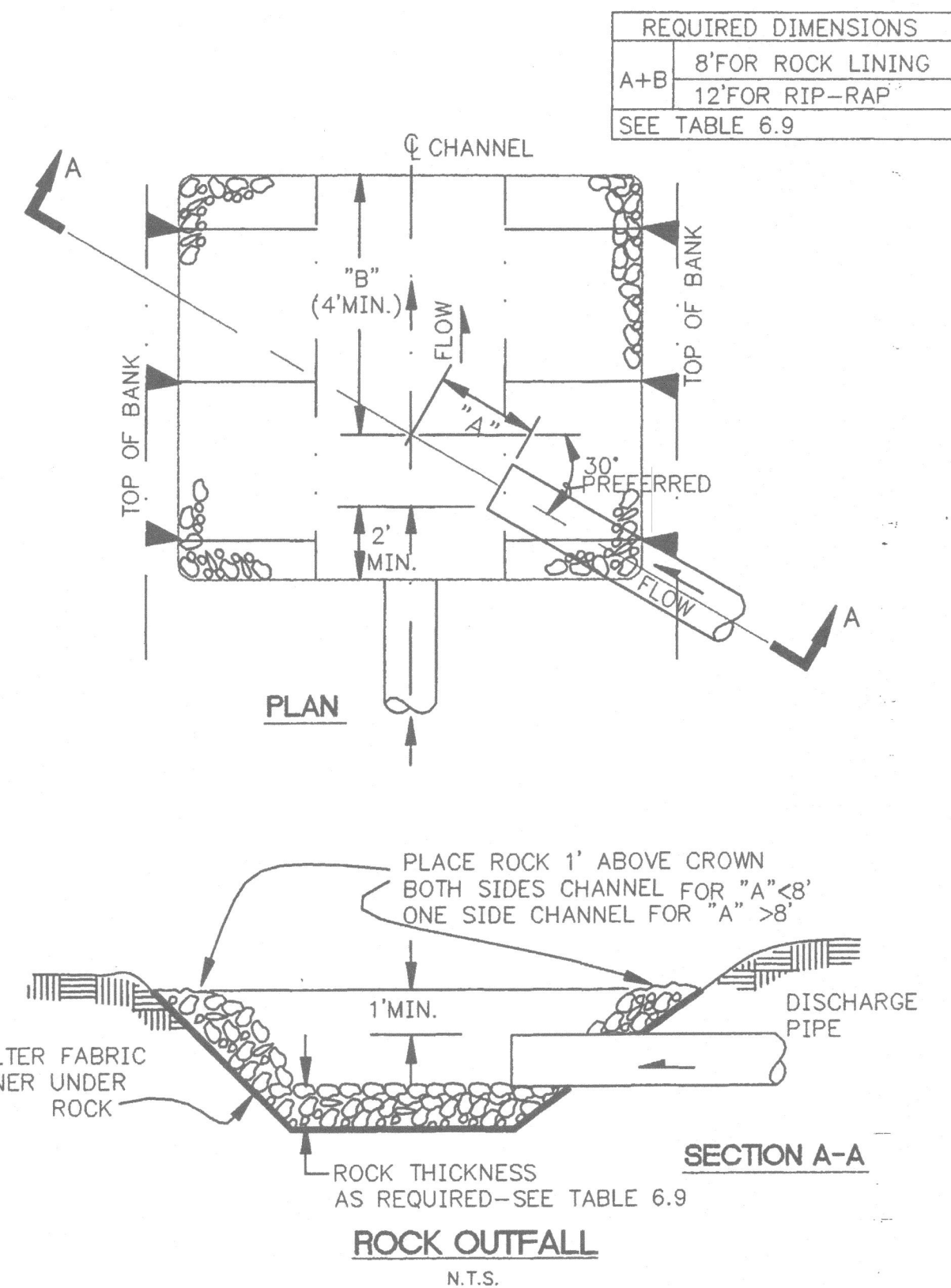
TO FIND WIDTH L, THE EQUATION IS REARRANGED TO USE THE COMPUTED Q_{100} (PEAK FLOW FOR THE 100-YEAR, 24-HOUR DESIGN STORM) AND TRIAL VALUES OF H(0.3 FEET MINIMUM).

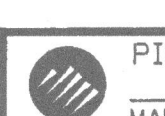
$$L = \frac{(Q_{100} / [3.2H^{3/2}]) - (2.4H^{5/2})}{(6 \text{ FEET MINIMUM})}$$

WEIR SECTION FOR EMERGENCY OVERFLOW SPILLWAY
N.T.S.

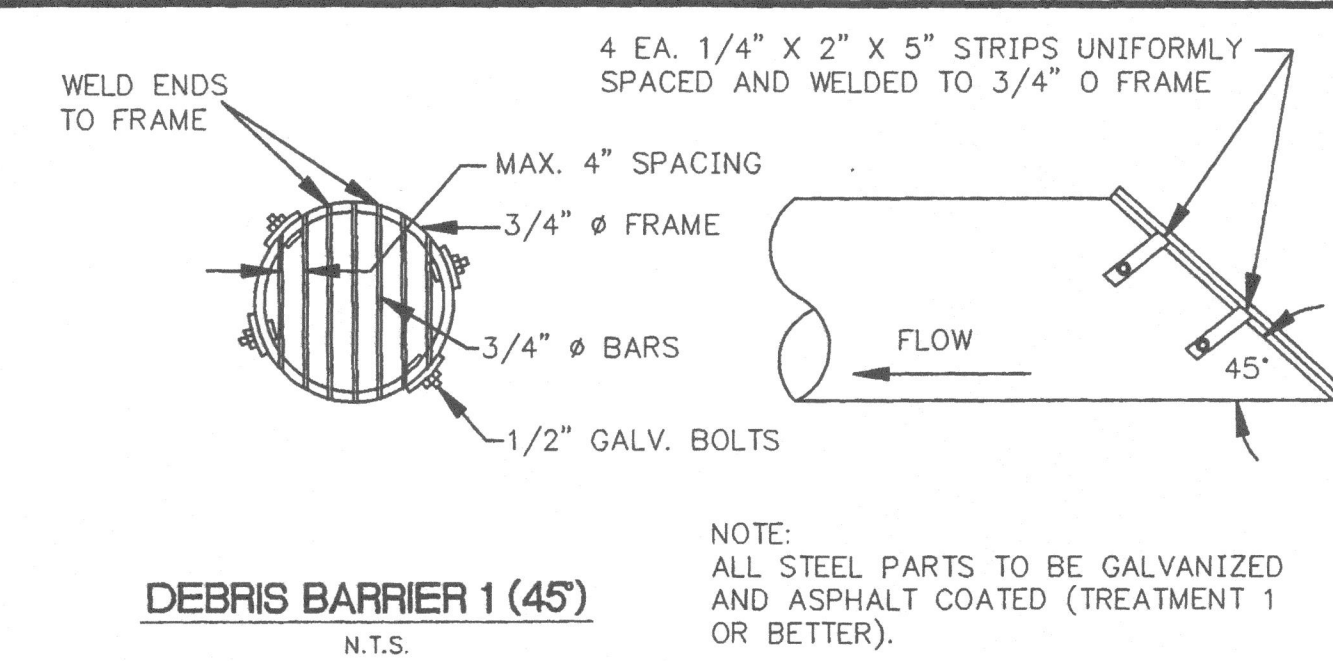
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APPROVED: DRAWN: DMG	REF: K.C., WA SWM MANUAL REV. DATE: MAY 1995	APPENDIX: A DETAIL: 2.0

4
C7
EMERGENCY OVERFLOW
NTS

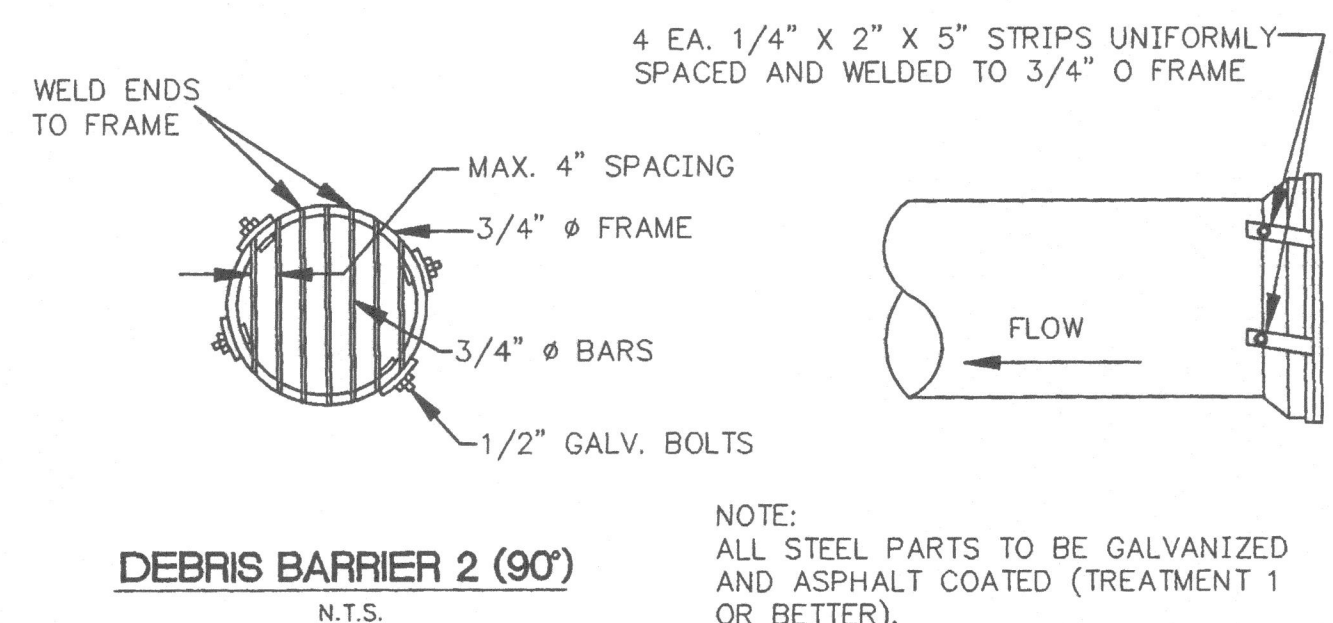


M-03-0-A.DWG	 PIERCE COUNTY STORMWATER MANAGEMENT MANUAL	ROCK OUTFALL (CULVERT DISCHARGE PROTECTION)
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5
C7
ROCK OUTFALL
NTS



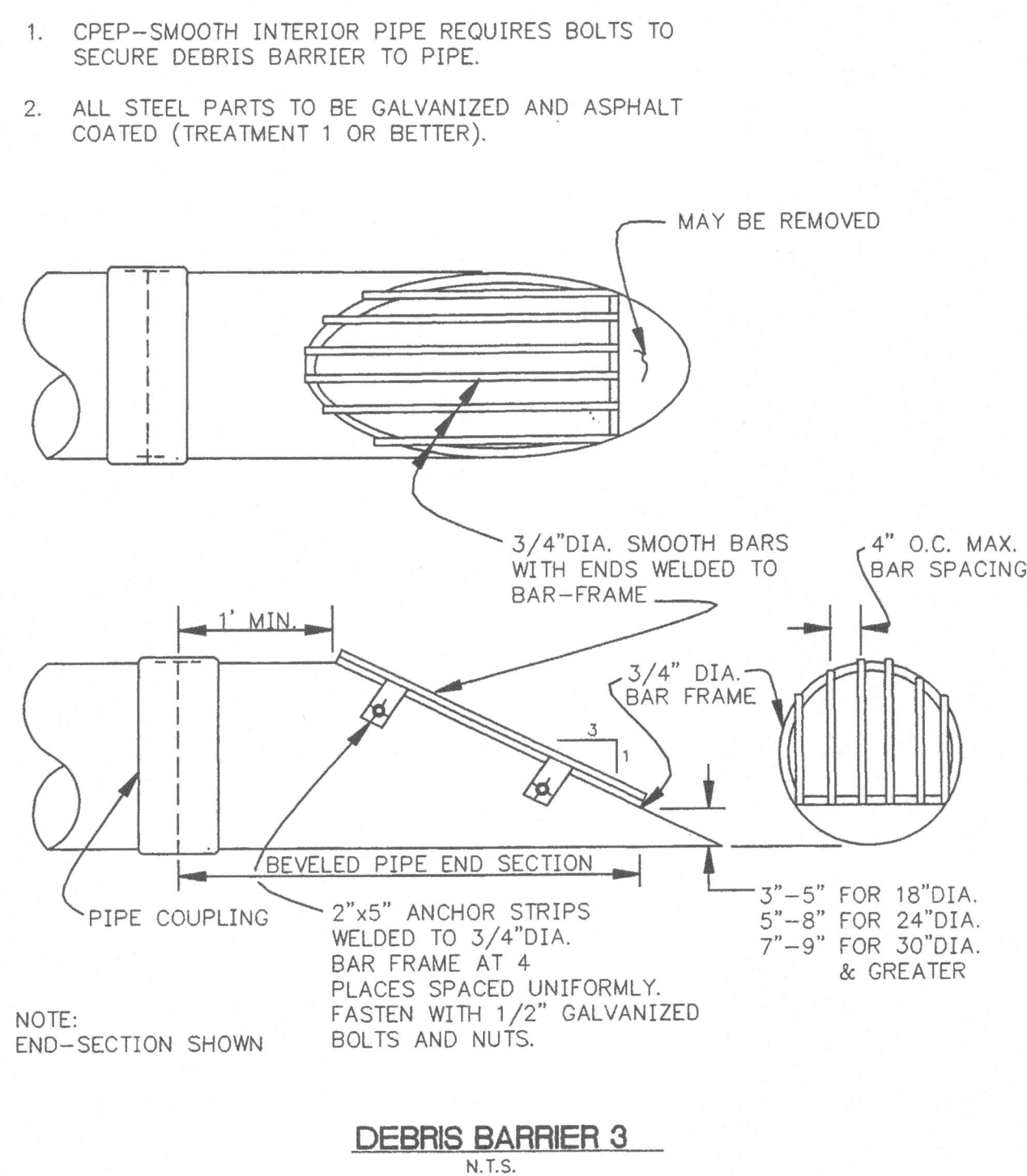
M-13-1-A.DWG



M-13-0-A.DWG

APPROVED: DRAWN: DMG	 PIERCE COUNTY STORMWATER MANAGEMENT MANUAL	DEBRIS BARRIER 1 (45°) & (90°)
	REF: K.C., WA SW DESIGN MANUAL REV. DATE: MAY 1995	APPENDIX: A DETAIL: 13.0

6
C7
TRASH BARRIER
NTS



M-14-0-A.DWG

APPROVED: DRAWN: DMG	 PIERCE COUNTY STORMWATER MANAGEMENT MANUAL	DEBRIS BARRIER 3
	REF: K.C., WA SW DESIGN MANUAL REV. DATE: MAY 1995	APPENDIX: A DETAIL: 14.0

7
C7
TRASH BARRIER
NTS

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER: JEFF KIDSTON DATE: 8-27-19

PIERCE COUNTY ORDINANCE NUMBER(S): 2004-565

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ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A PERMIT FROM THE PIERCE COUNTY PUBLIC WORKS DEPARTMENT.

CONSULTING
ENGINEERS PLLC
CIVIL ENGINEERING

AP

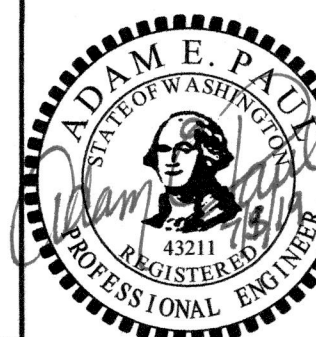
PO BOX 162 AUBURN WA 98071
(253) 737-4173
APCE@PConsultingEngineers.com

ZHUK PLAT

912 62ND AVENUE NE
TACOMA, WA

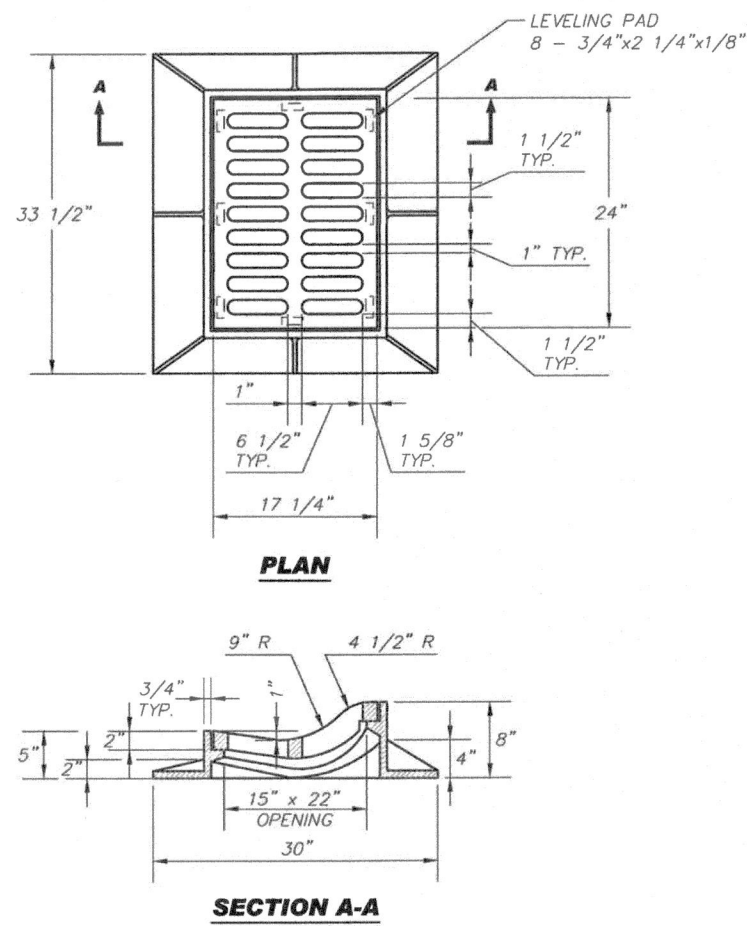
SECTIONS & DETAILS

REVISIONS	DATE
SYN	



DATE: 2/17/15
DRAWN: AEP
CHECKED: AEP
JOB NO.: 2015003
SHEET NO.: C7 OF 10

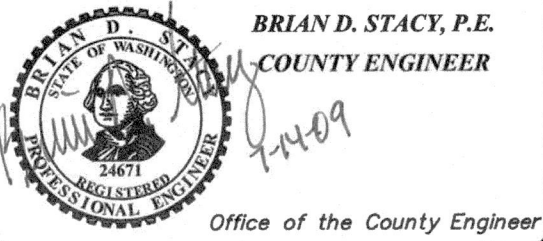
SECTION 31, TOWNSHIP 21 NORTH, RANGE 04 EAST



(NOT TO SCALE)

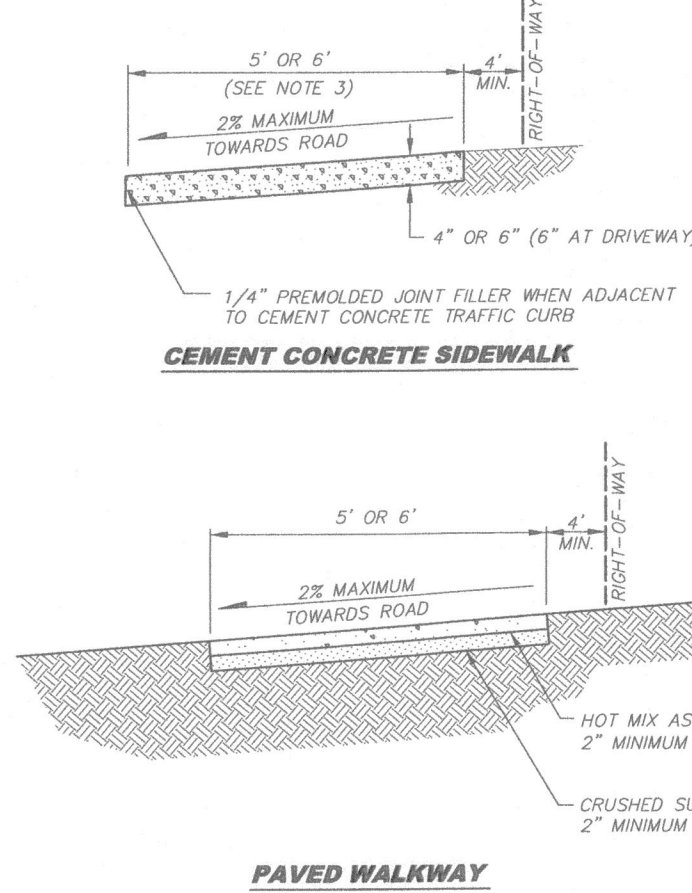


DATE	REVISION	APPROVED	DRAWN

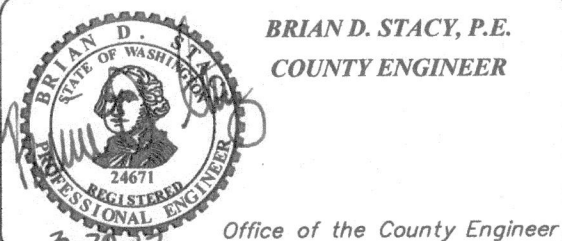
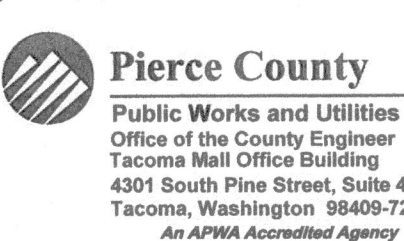


ROLLED CURB,
FRAME AND GRATE

PC.B1.2

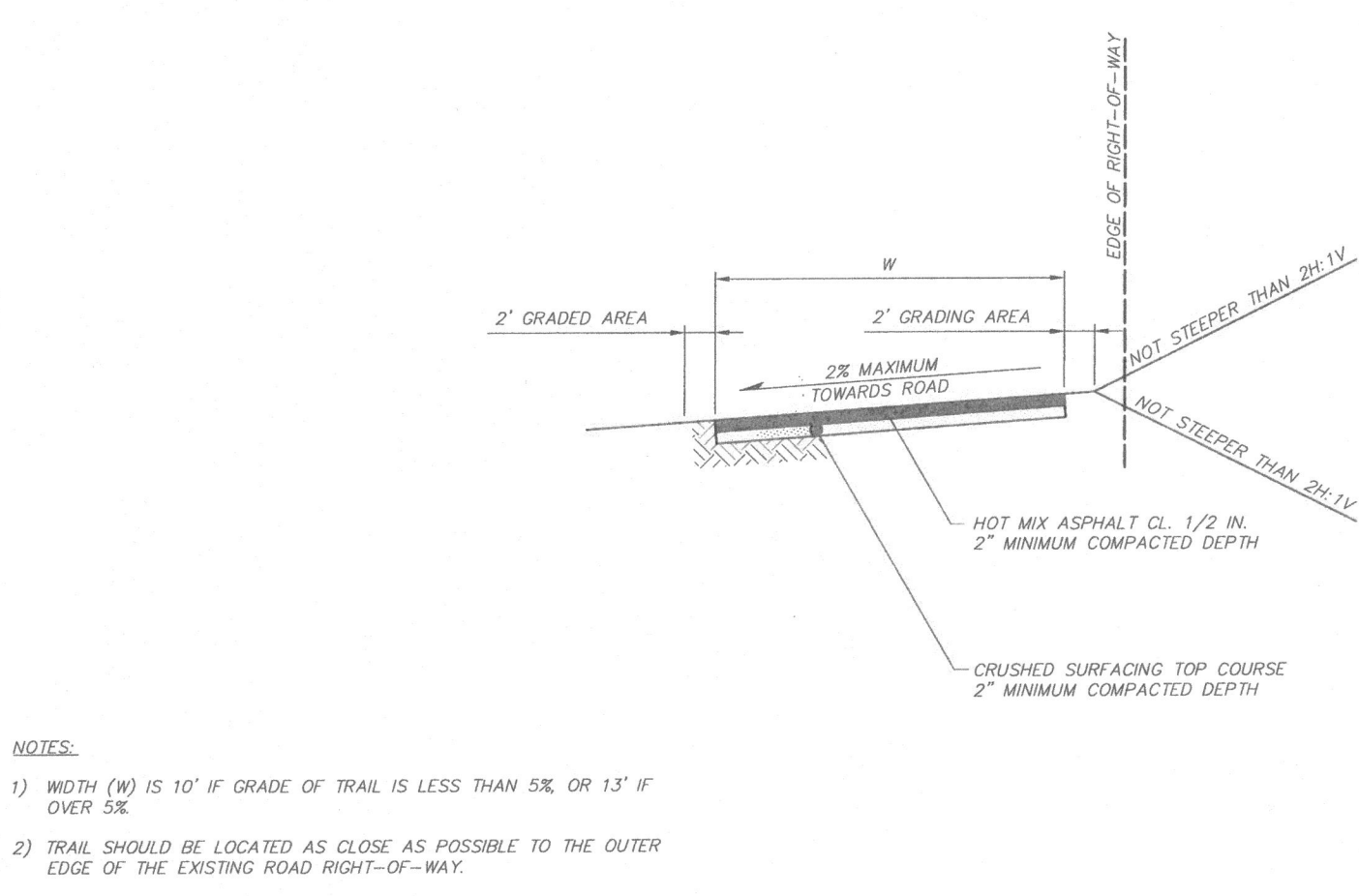
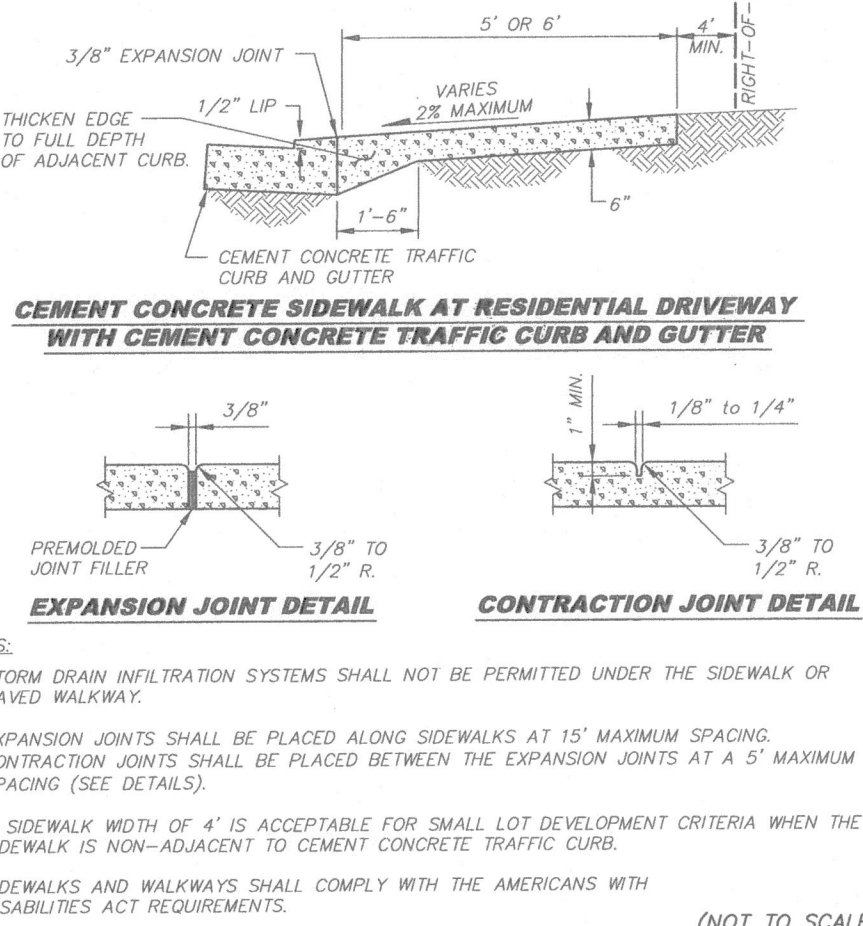


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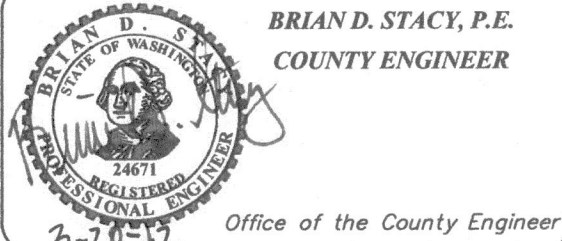
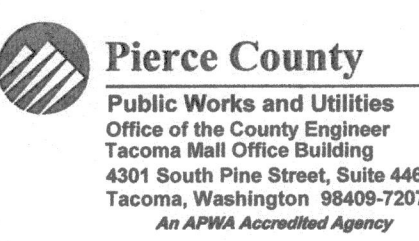


CEMENT CONCRETE
SIDEWALK AND
PAVED WALKWAY

PC.F7.1



(NOT TO SCALE)



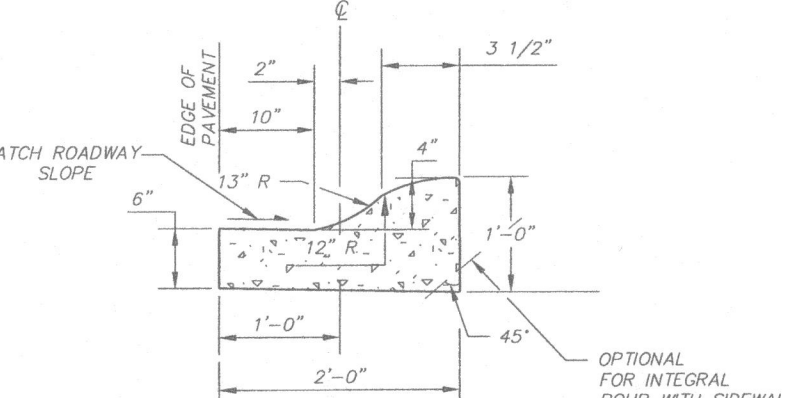
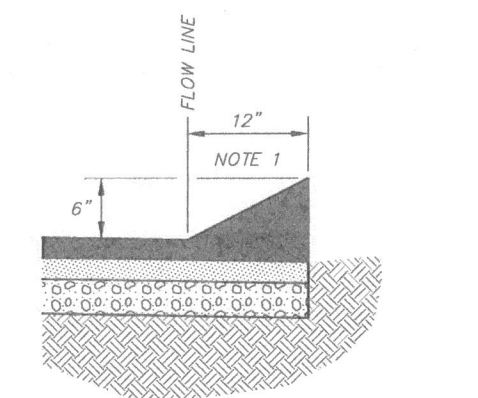
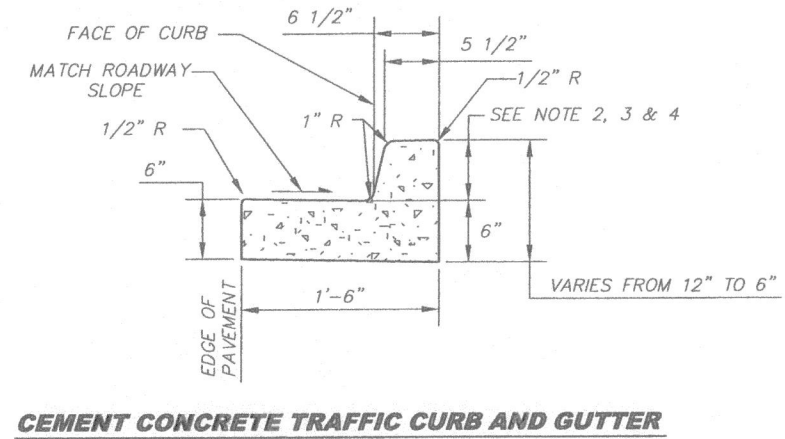
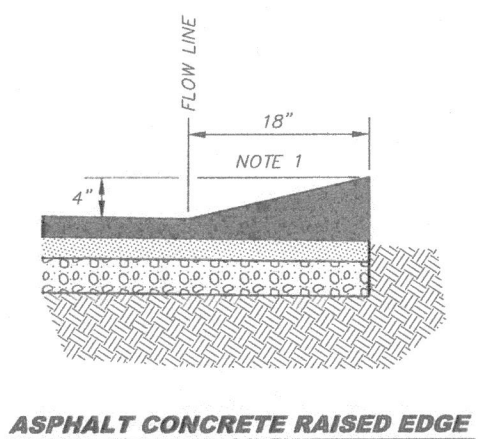
SHARED-USE PATH

PC.F7.2

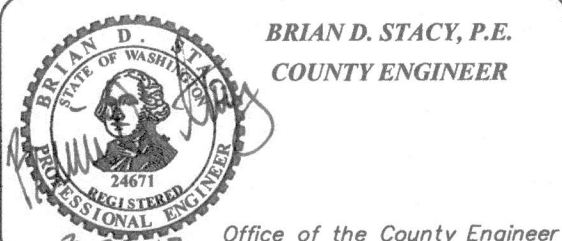
1
C8 ROLLED CURB, FRAME & GRATE
NTS

2
C8 CEMENT CONCRETE SIDEWALK & PAVED WALKWAY
NTS

3
C8 SHARED-USE PATH
NTS

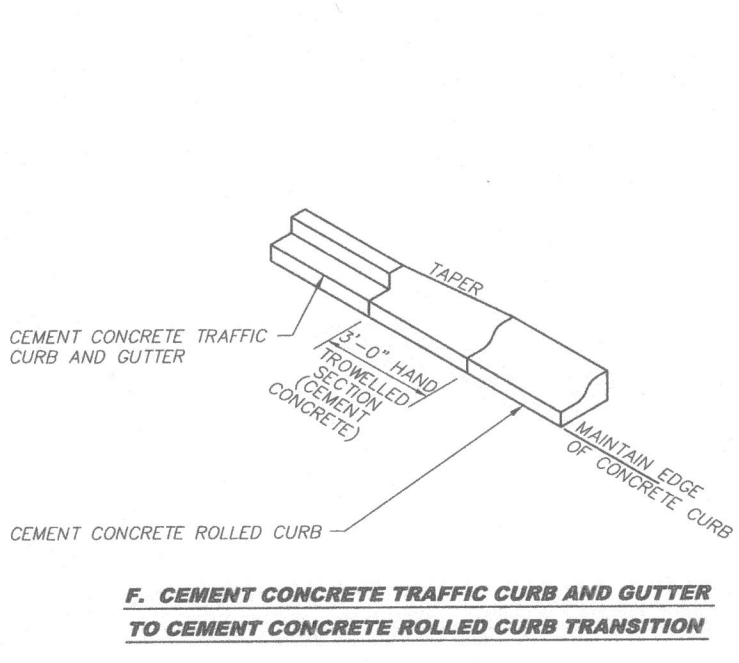
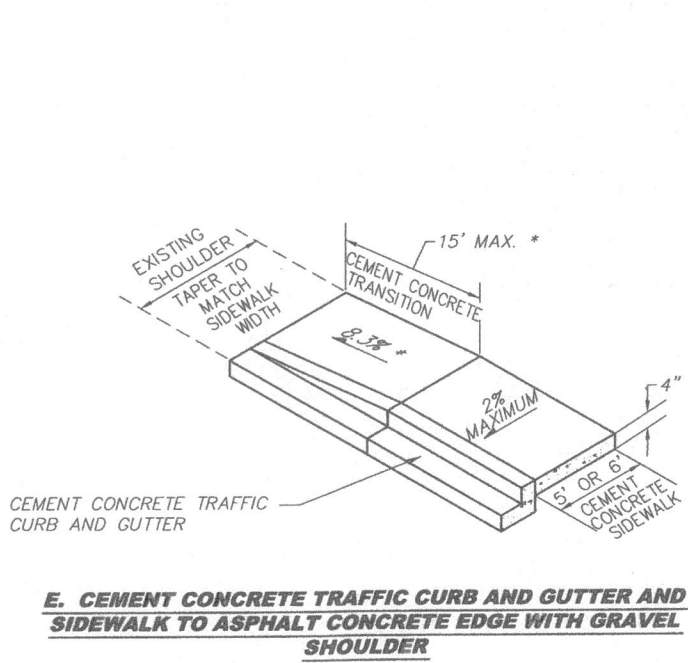


(NOT TO SCALE)

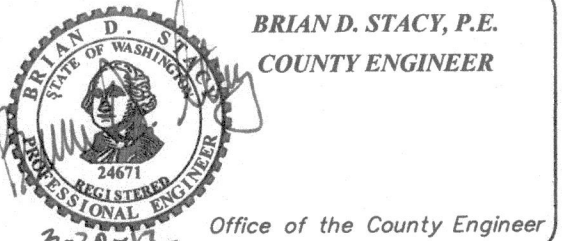
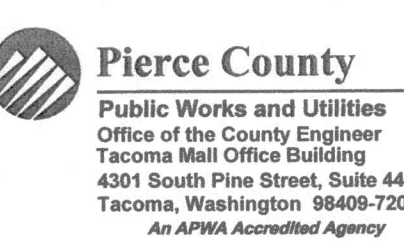


CURB DETAILS

PC.FB.1



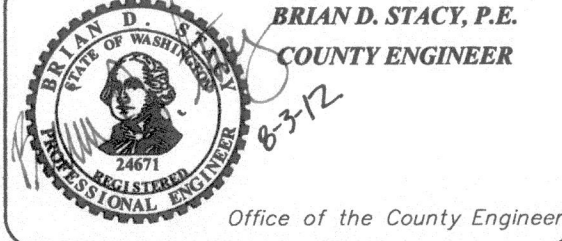
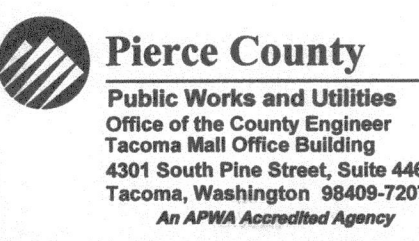
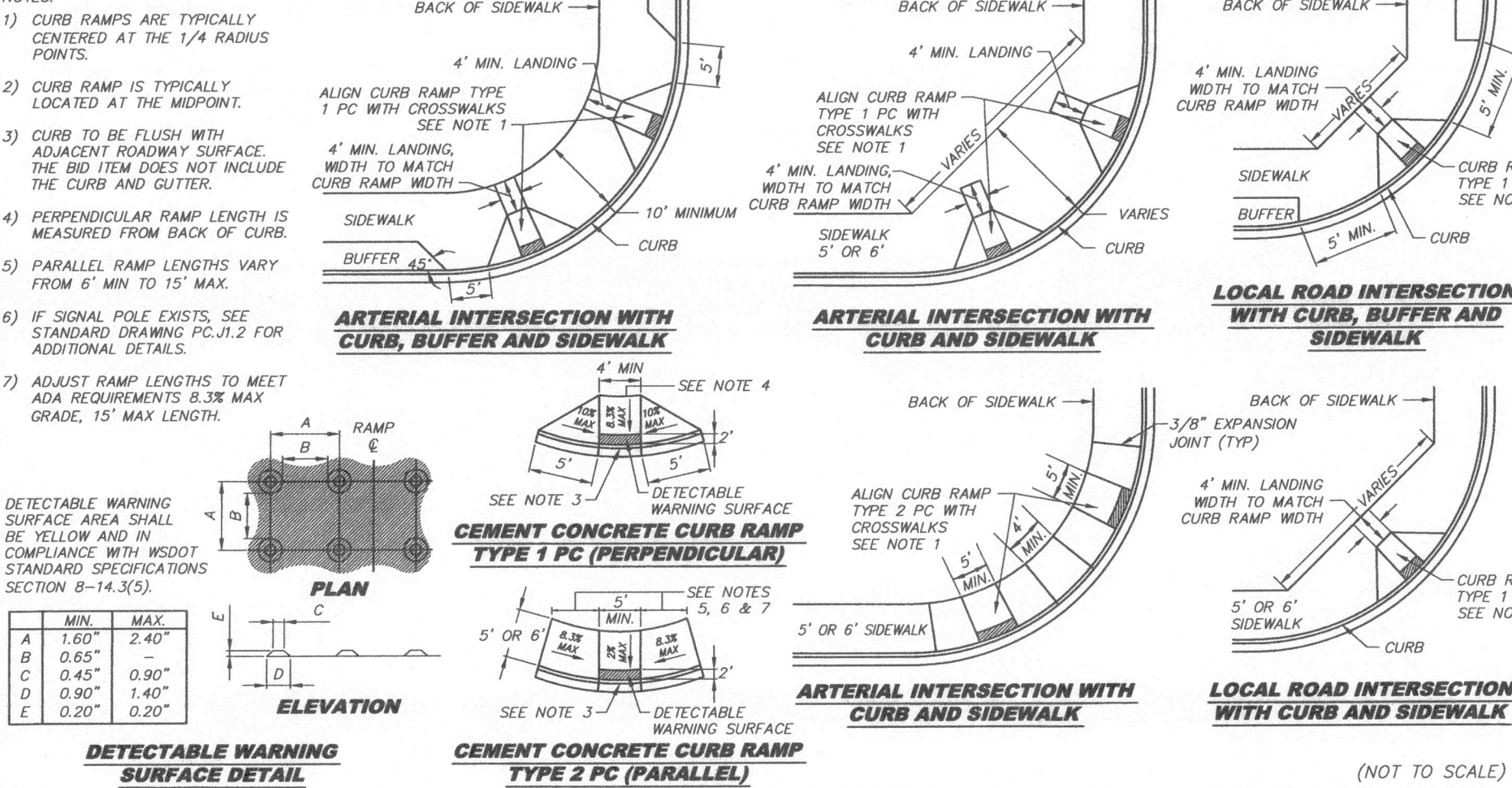
(NOT TO SCALE)



CURB
TRANSITIONS
SHEET 2 OF 2

PC.FB.3

5
C8 CURB TRANSITIONS
NTS



CEMENT CONCRETE
CURB RAMPS

PC.FB.4

6
C8 CEMENT CONCRETE CURB RAMPS
NTS

UTILITY CONFLICT NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE NOT GUARANTEED AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT AP CONSULTING ENGINEERS PLLC TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

PRIVATE IMPROVEMENTS

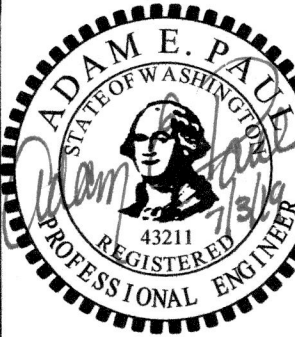
DEVELOPMENT ENGINEER JEFF KIDSTON DATE 8-27-19
PIERCE COUNTY ORDINANCE NUMBER(S) 2004-665
THESE ACTIONS MUST BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION:
1. CONTACT THE APPLICANT'S RETAINED ENGINEER TO COORDINATE REQUIRED INSPECTIONS.
2. APPOINT A TRAINED BSC LEAD WHO SHALL BE PROVIDED A COPY OF THE BSC PLAN & INSPECTION SCHEDULE.
3. CONTACT SAM KNOX, THE AREA INSPECTOR, AT 253-786-3789 TO COORDINATE THE PRECONSTRUCTION MEETING AND COUNTY INSPECTIONS.
FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A PERMIT FROM THE PIERCE COUNTY PUBLIC WORKS DEPARTMENT.

AP CONSULTING ENGINEERS PLLC
CIVIL ENGINEERING
PO BOX 162, AUBURN, WA 98071
(253) 737-4173
APCE@APConsultingEngineers.com

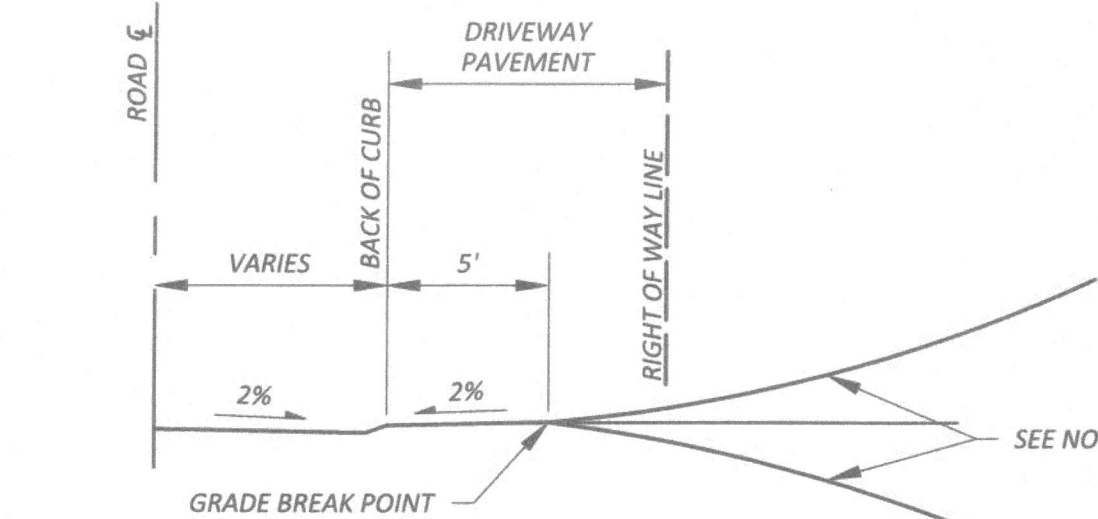
ZHUK PLAT
TACOMA, WA
9112 62ND AVENUE NE

SECTIONS & DETAILS

REVISIONS	DATE	DESCRIPTION

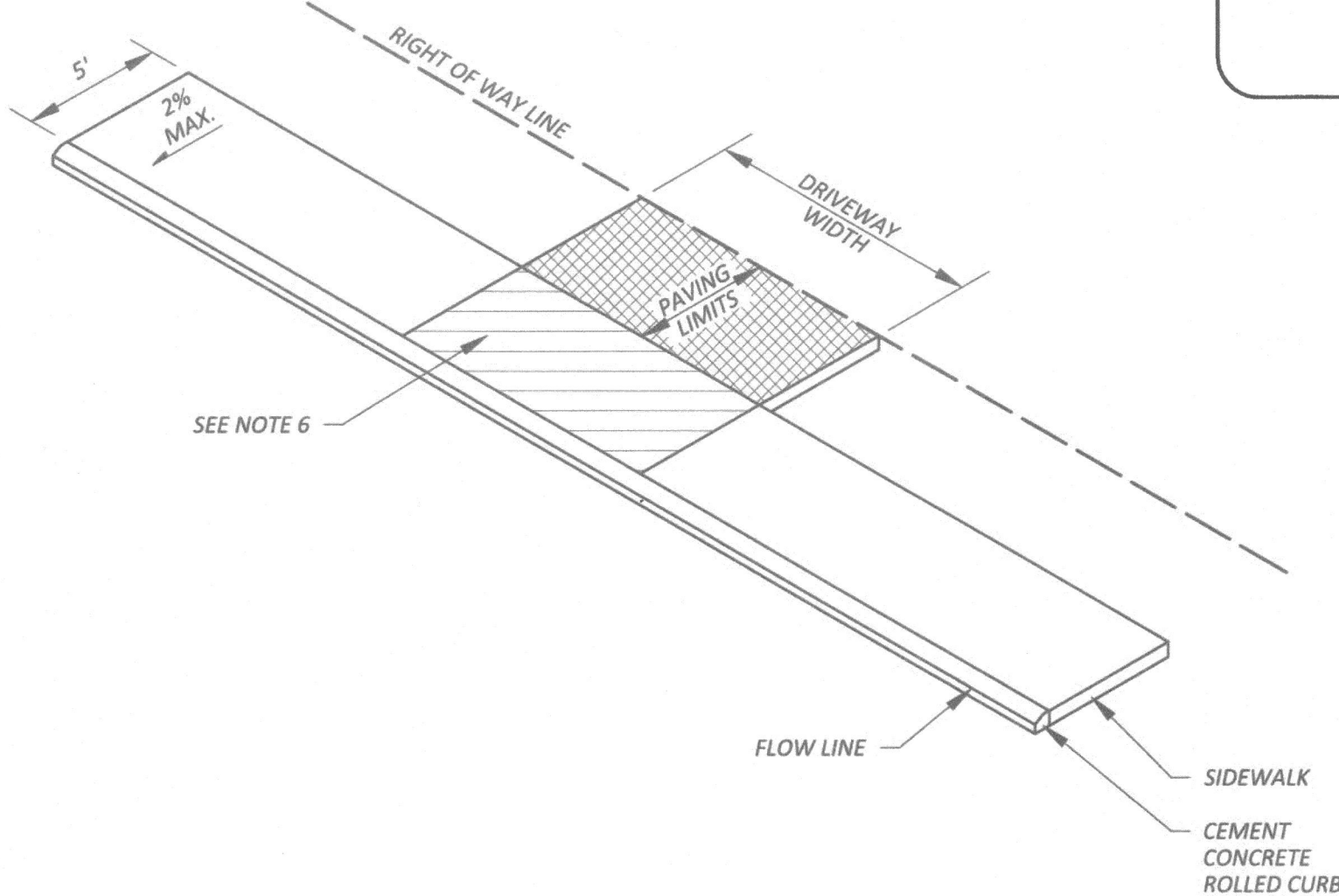


DATE 2/17/15
DRAWN AEP
CHECKED AEP
JOB NO. 2015003
SHEET NO. C8 OF 10



CROSS SECTION

- NOTES:
- 1) DRIVEWAY WIDTH = 15' MINIMUM TO 24' MAXIMUM, OR 30' MAXIMUM FOR THREE CAR GARAGE ON LOCAL ROAD.
 - 2) DRIVEWAY PAVING = 2" MINIMUM COMPACTED DEPTH HOT MIX ASPHALT CL. 1/2 IN. OVER 2" MINIMUM COMPACTED DEPTH CRUSHED SURFACING TOP COURSE, OR 6" MINIMUM CEMENT CONCRETE.
 - 3) STORM DRAINAGE FROM DRIVEWAY SHALL NOT BE PERMITTED TO DRAIN ONTO ROADWAY SURFACE, UNLESS ACCOUNTED FOR IN DESIGN.
 - 4) DRIVEWAY SHALL NORMALLY BE AT 90 DEGREES TO ROAD CENTERLINE, BUT CAN VARY FROM 75 DEGREES TO 90 DEGREES.
 - 5) RECOMMENDED MAXIMUM GRADES +/- 15% BEYOND GRADE BREAK POINT. VERTICAL CURVES NOT TO EXCEED A 3 1/4" CREST OR A 1" SAG IN A 10' CHORD.
 - 6) SIDEWALK ACROSS DRIVEWAY APPROACH SHALL NOT BE PERVIOUS MATERIAL.



(NOT TO SCALE)

Pierce County
Public Works
Office of the County Engineer
Tacoma Mall Office Building
4301 South Pine Street, Suite 628
Tacoma, Washington 98409-7207
An APWA Accredited Agency

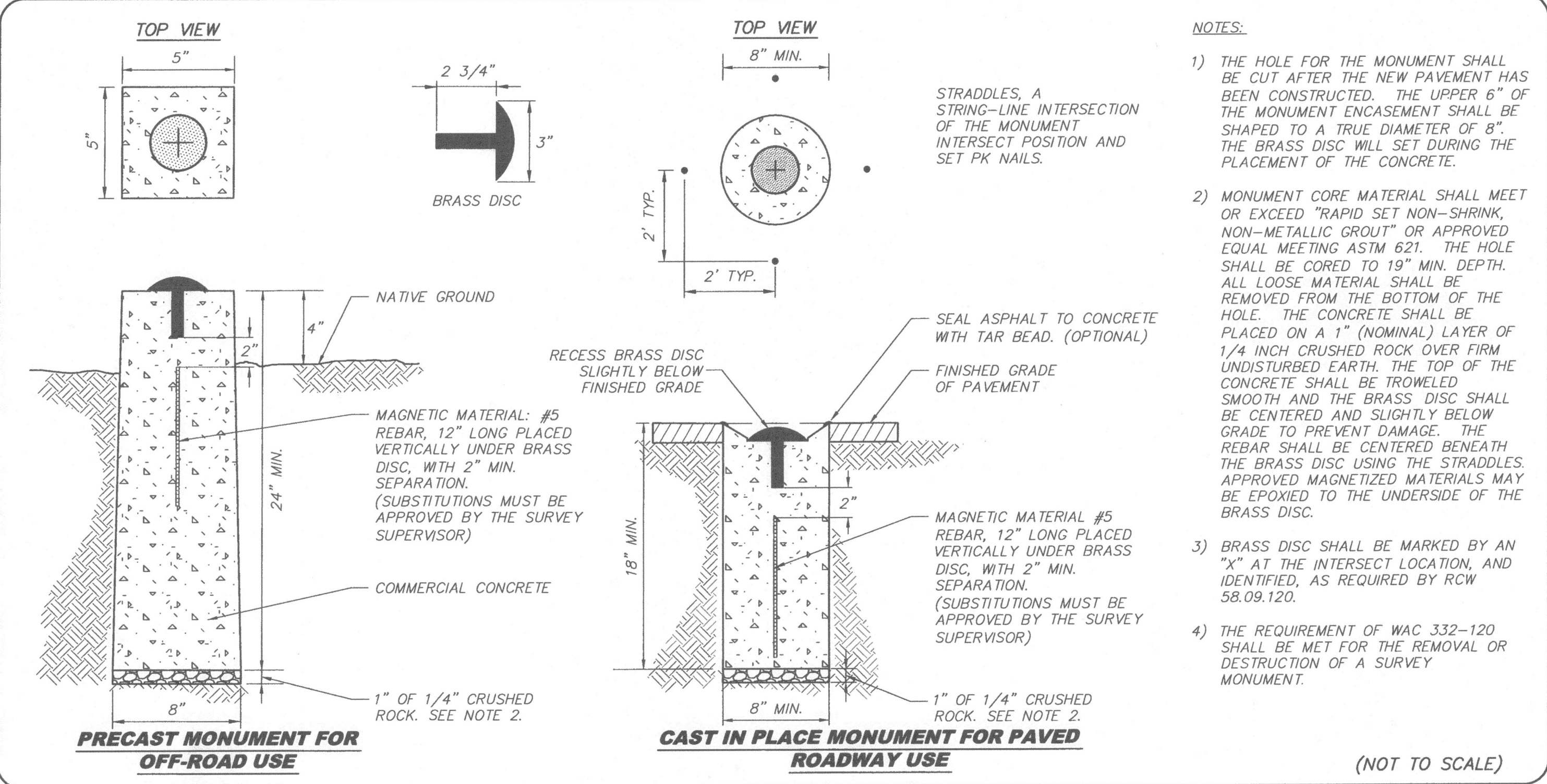
BRIAN D. STACY, P.E.
COUNTY ENGINEER
Office of the County Engineer

RESIDENTIAL DRIVEWAY APPROACH, CEMENT CONCRETE ROLLED CURB AND SIDEWALK
PC.F2.5

Pierce County
Public Works and Utilities
Office of the County Engineer
Tacoma Mall Office Building
4301 South Pine Street, Suite 446
Tacoma, Washington 98409-7207
An APWA Accredited Agency

BRIAN D. STACY, P.E.
COUNTY ENGINEER
Office of the County Engineer

PIERCE COUNTY STANDARD MONUMENTS
PC.H1



(NOT TO SCALE)

UTILITY CONFLICT NOTE

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PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER: JEFF KIDSTON DATE: 8-27-19
PIERCE COUNTY ORDINANCE NUMBER(S): 2004-565
THESE ACTIONS MUST BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION:
1. CONTACT THE APPLICANT'S RETAINED ENGINEER TO COORDINATE REQUIRED INSPECTIONS.
2. APPOINT A TRAINED EDC LEAD WHO SHALL BE PROVIDED A COPY OF THE EDC PLAN & INSPECTION SCHEDULE.
3. CONTACT SAM KNOX, THE AREA INSPECTOR, AT 253-798-3789 TO COORDINATE THE PRECONSTRUCTION MEETING AND COUNTY INSPECTIONS.
FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A PERMIT FROM THE PIERCE COUNTY PUBLIC WORKS DEPARTMENT.

AP CONSULTING ENGINEERS PLLC CIVIL ENGINEERING
ZHUKE PLAT
SECTIONS & DETAILS
JOB TITLE
SHEET TITLE
DATE
DRAWN
CHECKED
JOB NO.
SHEET NO.
C10 OF 10