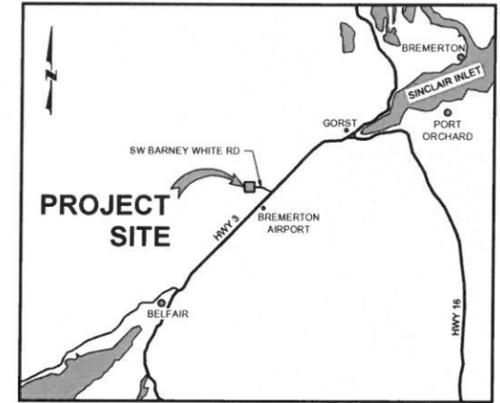




KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS OLYMPIC VIEW TRANSFER STATION RESURFACING AND STORMWATER MAINTENANCE



VICINITY MAP
NOT TO SCALE

SURVEY NOTES

PROVIDED BY:

KPFF CONSULTING ENGINEERS
612 WOODLAND SQUARE LOOP SE, SUITE 100
LACEY, WA 98503
TEL: (360) 292-7230
FAX: (360) 292-7231
CONTACT: TOM SWIFT, P.L.S.

BASIS OF BEARING:

MAGNETIC BEARING N45°E FROM CONTROL POINT NUMBERS 1 TO 2.

VERTICAL DATUM:

ASSUMED ELEVATIONS 100.00 ON CONTROL POINT NUMBER 1.

SURVEYORS NOTE:

THE PURPOSE OF THIS SURVEY IS TO MAP THE SITE CONDITIONS AS THEY EXISTED AT THE TIME OF THE SURVEY. NO BOUNDARY OR RIGHT OF WAY CALCULATIONS WERE PERFORMED. IT IS ASSUMED THAT ALL IMPROVEMENTS RESULTING FROM THIS SURVEY ARE TO BE WITHIN THE BOUNDARIES OF THE SUBJECT PROPERTY.

UTILITY NOTE:

UTILITIES SHOWN HEREON ARE PER KPFF AS-BUILTS OF SURFACE FEATURES AND UNDERGROUND UTILITY LOCATES PERFORMED BY MT. VIEW LOCATING INC. ALL UNDERGROUND UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE ONLY. NO POT-HOLING WAS PERFORMED TO VERIFY UTILITY LOCATION.

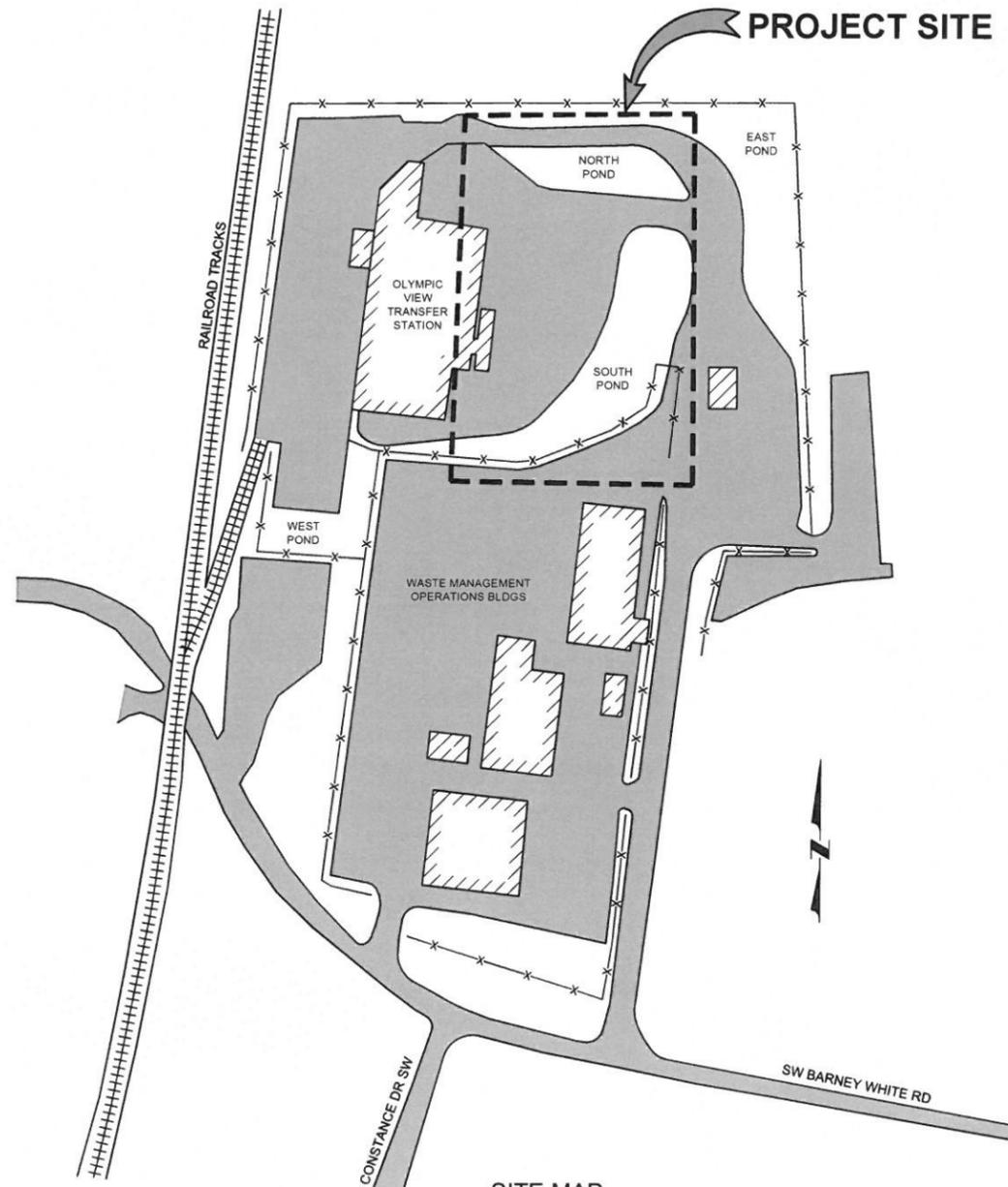
METHOD OF SURVEY:

CONTROL AND TOPOGRAPHIC SURVEY PERFORMED USING CONVENTIONAL METHODS WITH THE USE OF A TOPCON PS-101 1" ROBOTIC TOTAL STATION.

THE WORK PERFORMED DURING THE COURSE OF THIS SURVEY MEETS OR EXCEEDS THE STANDARDS AS SET FORTH IN WAC 332-130-090.

SURVEY WORK COMPLETED IN FEBRUARY OF 2015.

SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.



SITE MAP
NOT TO SCALE

ABBREVIATIONS

AVE = AVENUE	NTS = NOT TO SCALE
BLDG = BUILDING	OC = ON CENTER
CB = CATCH BASIN	PROP = PROPERTY LINE
CL = CLASS	PT = POINT
CO = CLEANOUT	RD = ROOF DRAIN, ROAD
CPSS = CORRUGATED POLYETHYLENE STORM SEWER	RDCO = ROOF DRAIN CLEANOUT
CSBC = CRUSHED SURFACING BASE COURSE	S = SOUTH, SLOPE
CSTC = CRUSHED SURFACING TOP COURSE	SD = STORM DRAIN
DI = DUCTILE IRON	SF = SQUARE FEET
DIA, Ø = DIAMETER	SHT = SHEET
DR = DRIVE	SPEC = SPECIFICATION
E = EAST, EASTING	STD = STANDARD
EX = EXISTING	SW = SOUTHWEST
H = HEIGHT	TBD = TO BE DETERMINED
HMA = HOT MIX ASPHALT	TEL = TELEPHONE
HWY = HIGHWAY	TESC = TEMPORARY EROSION AND SEDIMENT CONTROL
IE = INVERT ELEVATION	TYP = TYPICAL
LF = LINEAR FEET	W = WEST, WIDTH
MAX = MAXIMUM	W/ = WITH
MIN = MINIMUM	WQ = WATER QUALITY
N = NORTH, NORTHING	WSDOT = WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
NIC = NOT IN CONTRACT	

SHEET INDEX	
SHEET	TITLE
1	COVER SHEET
2	DEMO, TRAFFIC & TESC PLAN
3	TESC DETAILS
4	PAVING PLAN
5	GRADING & DRAINAGE PLAN
6	DRAINAGE PROFILES
7	DRAINAGE DETAILS
8	DRAINAGE DETAILS

SITE DATA:

ADDRESS: 9300 SW BARNEY WHITE RD
BREMERTON, WA 98312

PARCEL NUMBER: 112301-2-002-1001

OWNER:

KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
614 DIVISION STREET, MS#27
PORT ORCHARD, WA 98366
TEL: (360) 337-5665
CONTACT: KELI MCKAY-MEANS

PROJECT DESCRIPTION:

- RESURFACING OF 23,730 SF IMPERVIOUS GRAVEL DRIVING SURFACE WITH ASPHALT PAVEMENT (PERMIT QUANTITY ONLY - NOT FOR BIDDING PURPOSES).
- STORM DRAINAGE IMPROVEMENTS INCLUDING NEW CATCH BASINS, WATER QUALITY TREATMENT, AND OUTFALLS TO EXISTING INFILTRATION PONDS.

CIVIL ENGINEER:

KPFF CONSULTING ENGINEERS
612 WOODLAND SQUARE LOOP SE, SUITE 100
LACEY, WA 98503
TEL: (360) 292-7230
FAX: (360) 292-7231
CONTACT: KRIS KOSKI, PE

APPROVED FOR CONSTRUCTION

10 FEB 16
DATE

DAVID TUCKER, P.E.
ASSISTANT DIRECTOR, UTILITIES



kpff 612 Woodland Square Loop SE
Suite 100
Lacey, WA 98503
360.292.7230
www.kpff.com

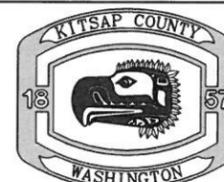
BID SET

BOARD OF COMMISSIONERS:

ROBERT GELDER
CHARLOTTE GARRIDO
EDWARD E. WOLFE

DIRECTOR OF PUBLIC WORKS

ANDREW B. NELSON, P.E.



KITSAP COUNTY
DEPT. OF PUBLIC WORKS
614 DIVISION STREET MS-26
PORT ORCHARD, WA 98366
TEL:(360) 337-5777 FAX:(360) 337-4867

OLYMPIC VIEW TRANSFER STATION
RESURFACING AND STORMWATER MAINTENANCE

COVER SHEET

SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

DATE
02/09/16

SHEET
1
OF
8

CITY OF BREMERTON STANDARD EROSION CONTROL NOTES

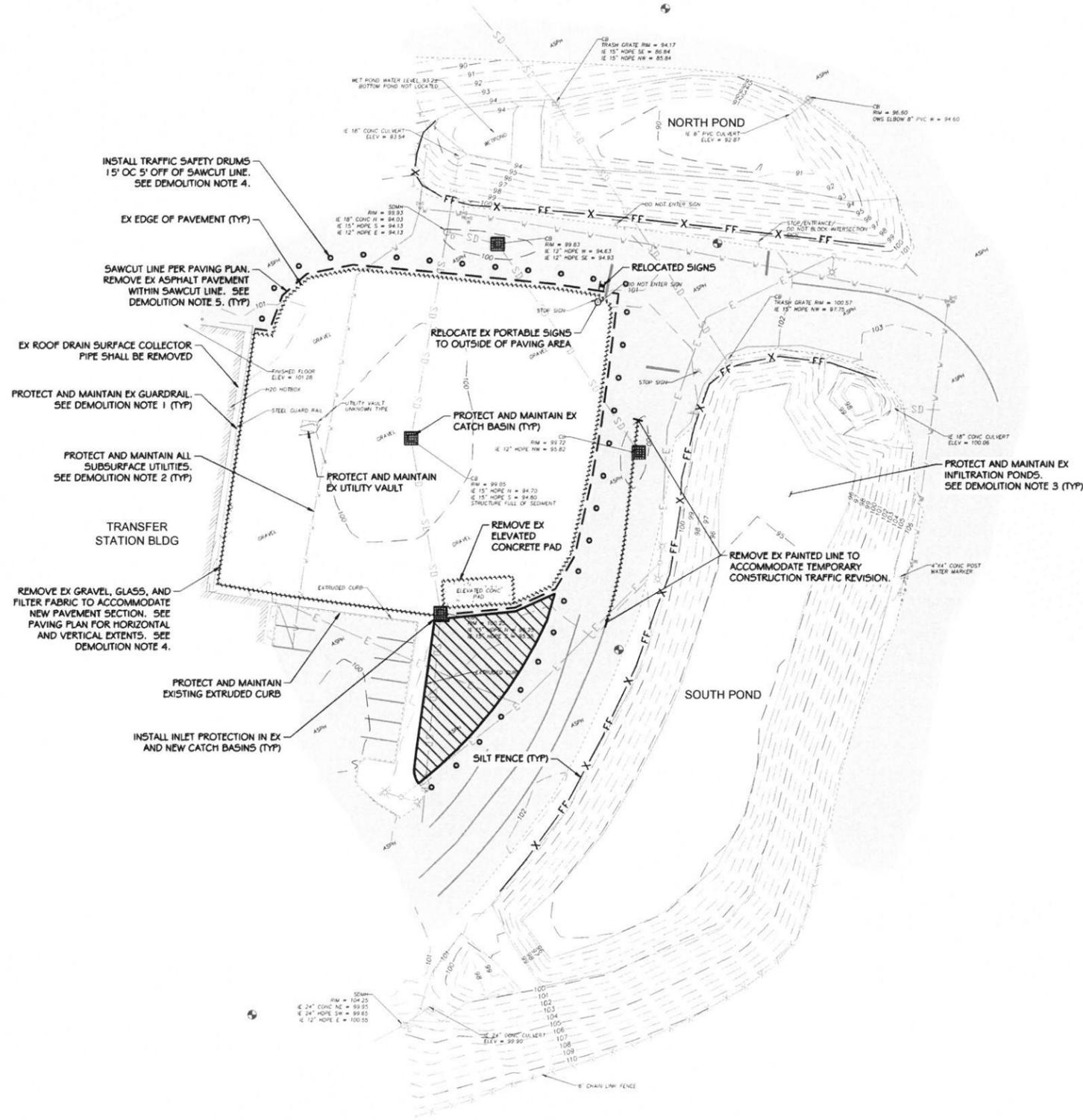
- A. THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO ALL OTHER CONSTRUCTION.
- B. WHERE POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
- C. AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, THE EROSION CONTROL FACILITIES SHALL BE MAINTAINED AND/OR ALTERED AS REQUIRED BY THE CITY ENGINEER TO INSURE CONTINUING EROSION/SEDIMENTATION CONTROL.
- D. TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
- E. ALL DISTURBED LAND AREAS LEFT FOR 30 DAYS OR MORE SHALL BE SEEDED WITH A MIX AND BY A METHOD APPROVED BY THE CITY ENGINEER AND MAINTAINED UNTIL SEED GERMINATION IS ASSURED.
- F. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL OF DESIGN, SIZE, NOR LOCATION OF PIPES, RESTRICTORS, OR DETENTION FACILITIES; BUT IS AN APPROVAL OF GRADING AND SEDIMENTATION CONTROL PLAN ONLY.
- G. THE PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAN. TRACKING OF MUD AND DEBRIS FROM THE SITE ONTO THE PUBLIC RIGHT-OF-WAY WILL NOT BE ALLOWED. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED.
- H. CLEANUP AND RESTORATION. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED IN CLEANING AND RESTORING THE CONSTRUCTION SITE:
 1. STREET SHALL BE SWEEPED EACH DAY.
 2. DISTURBED SOILS SHALL BE FINAL GRADED, SEEDED AND MULCHED; OR SODDED AFTER THE INSTALLATION OF THE UTILITY.
 3. DITCHES SHALL BE SEEDED, JUTE MATTED, NETTED, SODDED, OR ROCK LINED TO CONTROL EROSION.
 4. ANY DEBRIS INCLUDING ROCKS, COBBLES, DIRT AND SILT OF DOWNSTREAM DRAINAGE FACILITIES, WHETHER DITCHES OR PIPE AND CATCH BASINS, WHICH RESULTS FROM THE CONSTRUCTION, SHALL BE CLEANED OUT AND THE WORK RESTORED TO A STABLE CONDITION AS A PART OF SITE CLEANUP EACH DAY.

CONSTRUCTION SEQUENCE

1. HOLD THE PRE-CONSTRUCTION MEETING.
2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR.
3. FLAG CLEARING LIMITS AND SET UP TRAFFIC CONTROL.
4. INSTALL CATCH BASIN PROTECTION.
5. INSTALL PERIMETER PROTECTION (SILT FENCE, ETC).
6. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF BREMERTON STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
7. RELOCATE EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH CITY OF BREMERTON STANDARDS.
8. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON AND TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
9. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
10. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
11. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPs IF APPROPRIATE.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PROTECT THE EXISTING STEEL GUARDRAIL. ANY DAMAGE TO THE GUARDRAIL CAUSED BY THE CONTRACTOR OPERATION SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE AGENCY.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED ON THE SITE. ANY DAMAGE TO THE UTILITIES DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE AGENCY.
3. THE CONTRACTOR SHALL NOT ALLOW ANY SEDIMENT-LADEN WATER TO ENTER THE EXISTING INFILTRATION PONDS. THE CONTRACTOR SHALL NOT COMPACT SOILS WITHIN THE EXISTING INFILTRATION PONDS.
4. EQUIPMENT AND VEHICLES PERFORMING DEMOLITION WORK SHALL WORK FROM WITHIN THE TRAFFIC SAFETY DRUMS WITH THE EXCEPTIONS OF NIGHT WORK AS DESCRIBED IN THE CONTRACT AND WORK LOCATED WHOLLY WITHIN THE PONDS. THE FACILITY'S ROADS SHALL BE CLEAR AND OPEN TO TRAFFIC DURING THE FACILITY'S OPERATING HOURS AND FOR AN HOUR BEFORE OPENING AND AFTER CLOSING. EQUIPMENT AND VEHICLES SHALL NOT WORK FROM OR BE PARKED ON AREAS OUTSIDE OF THE TRAFFIC SAFETY DRUMS UNLESS GIVEN APPROVAL BY THE ENGINEER.
5. THE SAWCUT LINE IS DEFINED ON THE PAVING PLAN. CONTRACTOR SHALL REMOVE EXISTING ASPHALT, GRAVEL, GLASS, AND FILTER FABRIC WITHIN SAWCUT LINE TO ACCOMMODATE NEW PAVEMENT SECTION. SEE PAVING PLAN FOR HORIZONTAL AND VERTICAL EXTENTS.



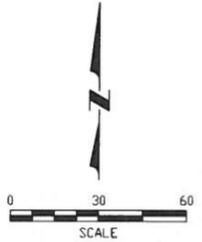
LEGEND

EXISTING

- WATER VALVE
- HYDRANT
- WATER METER
- STORM DRAIN MANHOLE
- CATCH BASIN
- BOLLARD
- POST
- SIGN
- LITEPOLE
- WATER LINE
- UNDERGROUND POWER
- STORM LINE
- BUILDING
- CONCRETE
- EDGE OF GRAVEL & ASPHALT
- MAJOR CONTOUR
- MINOR CONTOUR
- ASPHALT PAVEMENT

PROPOSED

- SILT FENCE
- INLET PROTECTION
- DEMOLITION LINE
- SAWCUT LINE PER PAVING PLAN (SEE DEMOLITION NOTE 5)
- TRAFFIC SAFETY DRUM
- CONTRACTOR STAGING AREA



BID SET

REVISIONS			
No.	BY	DATE	DESCRIPTION

SURVEYED: TJS
DESIGNED: KPK
DRAWN: NLA
CHECKED: MRS
CRP No.
DATE: 02/09/16



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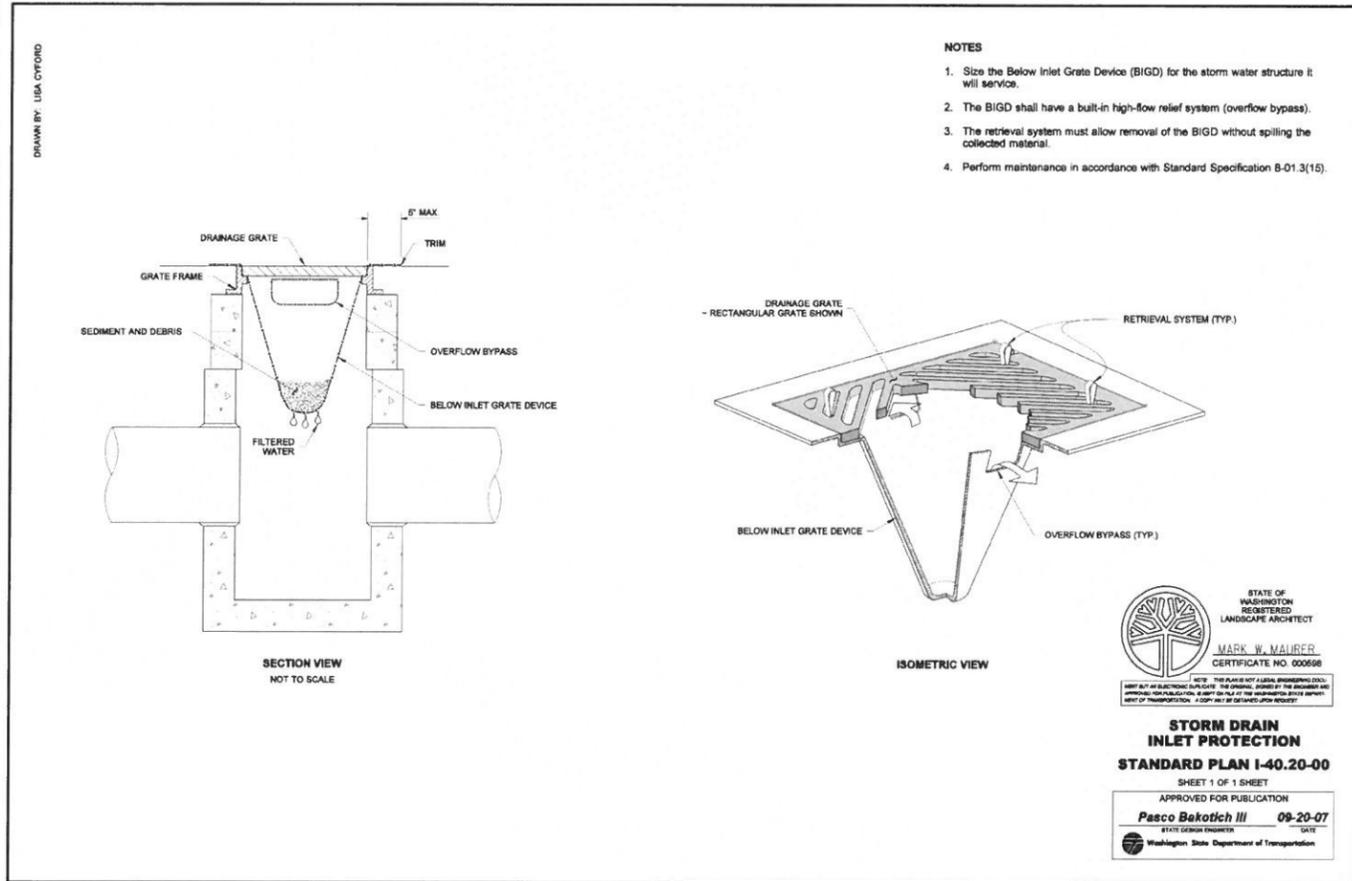
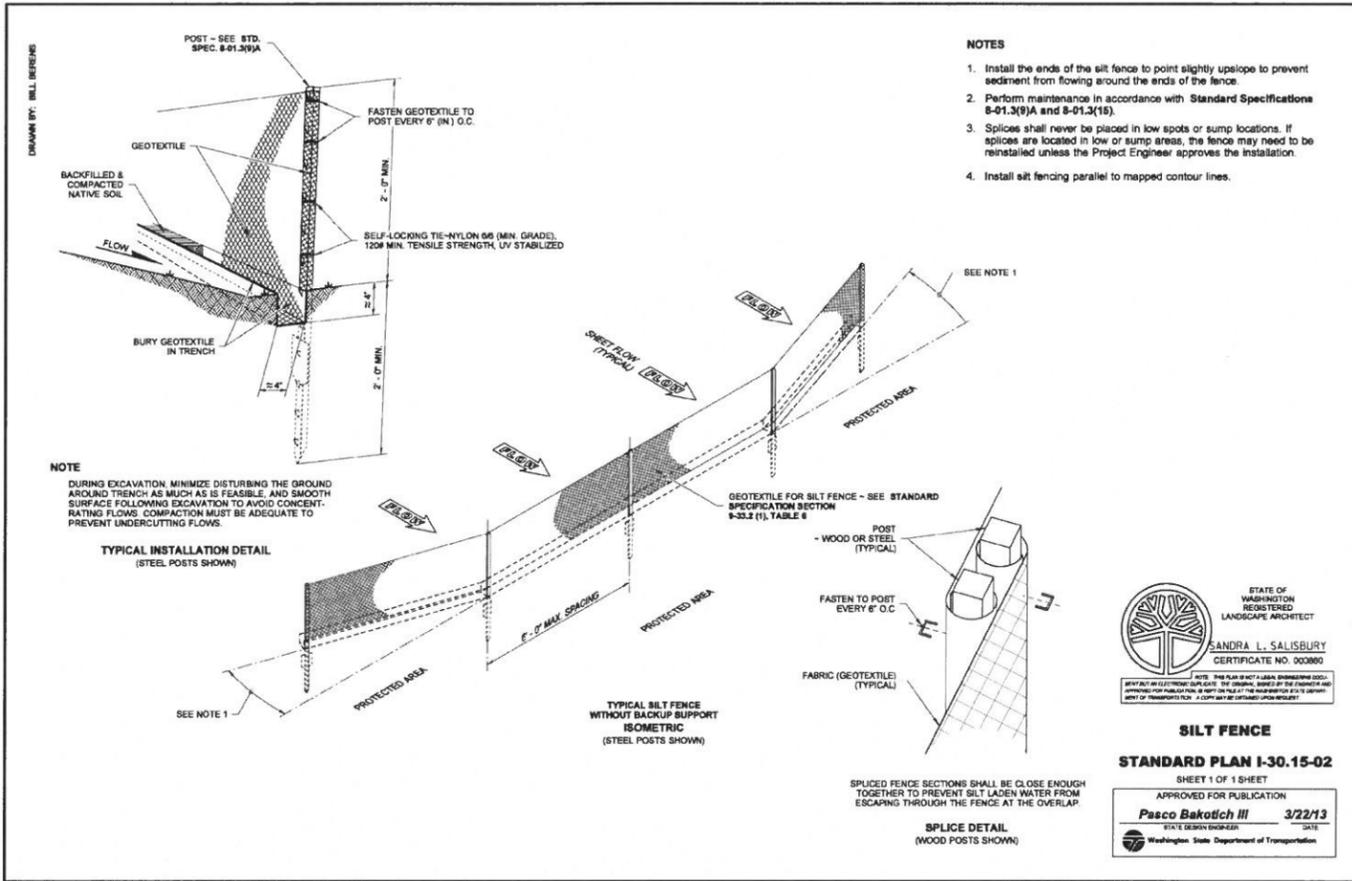


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PORT ORCHARD, WA 98366
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**OLYMPIC VIEW TRANSFER STATION
RESURFACING AND STORMWATER MAINTENANCE
DEMO, TRAFFIC & TESC PLAN**

SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

SHEET
2
OF
8

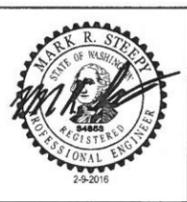


SILT FENCE A
2
REFERENCED FROM WSDOT PLAN I-30.15-02

INLET PROTECTION B
2
REFERENCED FROM WSDOT PLAN I-40.20-00

BID SET

REVISIONS			SURVEYED: TJS
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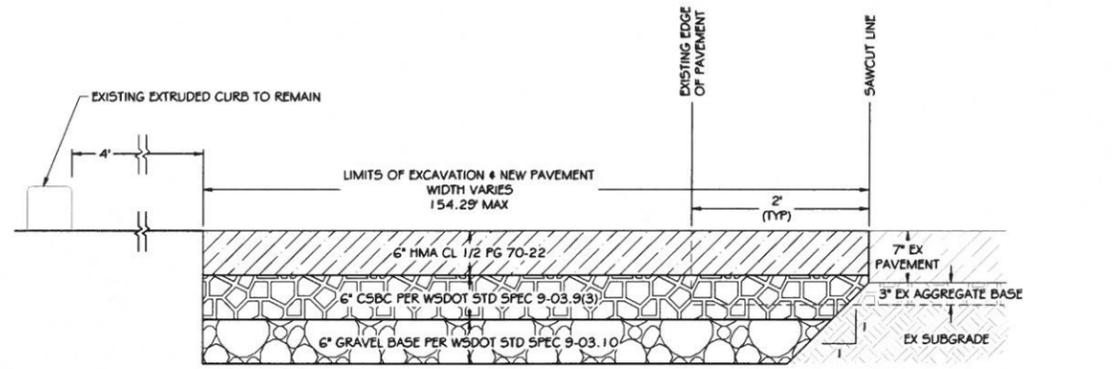
KITSAP COUNTY
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OLYMPIC VIEW TRANSFER STATION
RESURFACING AND STORMWATER MAINTENANCE

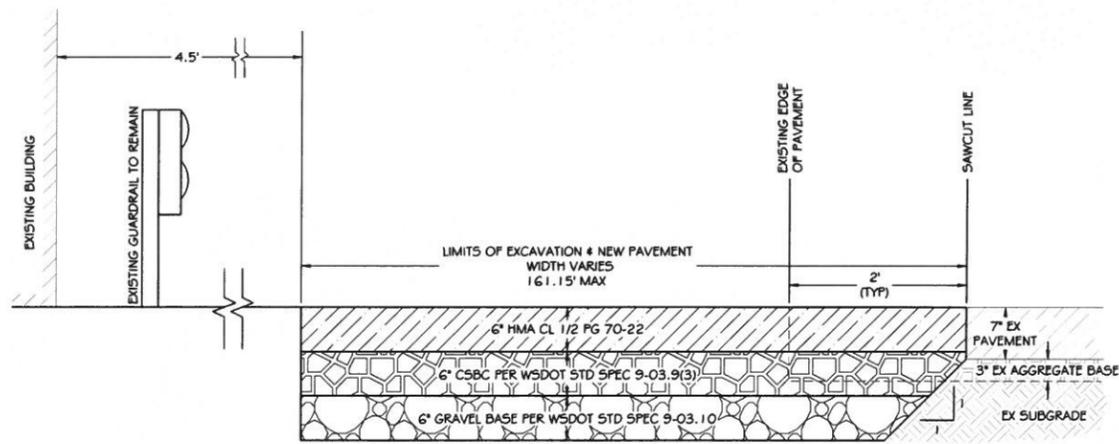
TESC DETAILS

SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

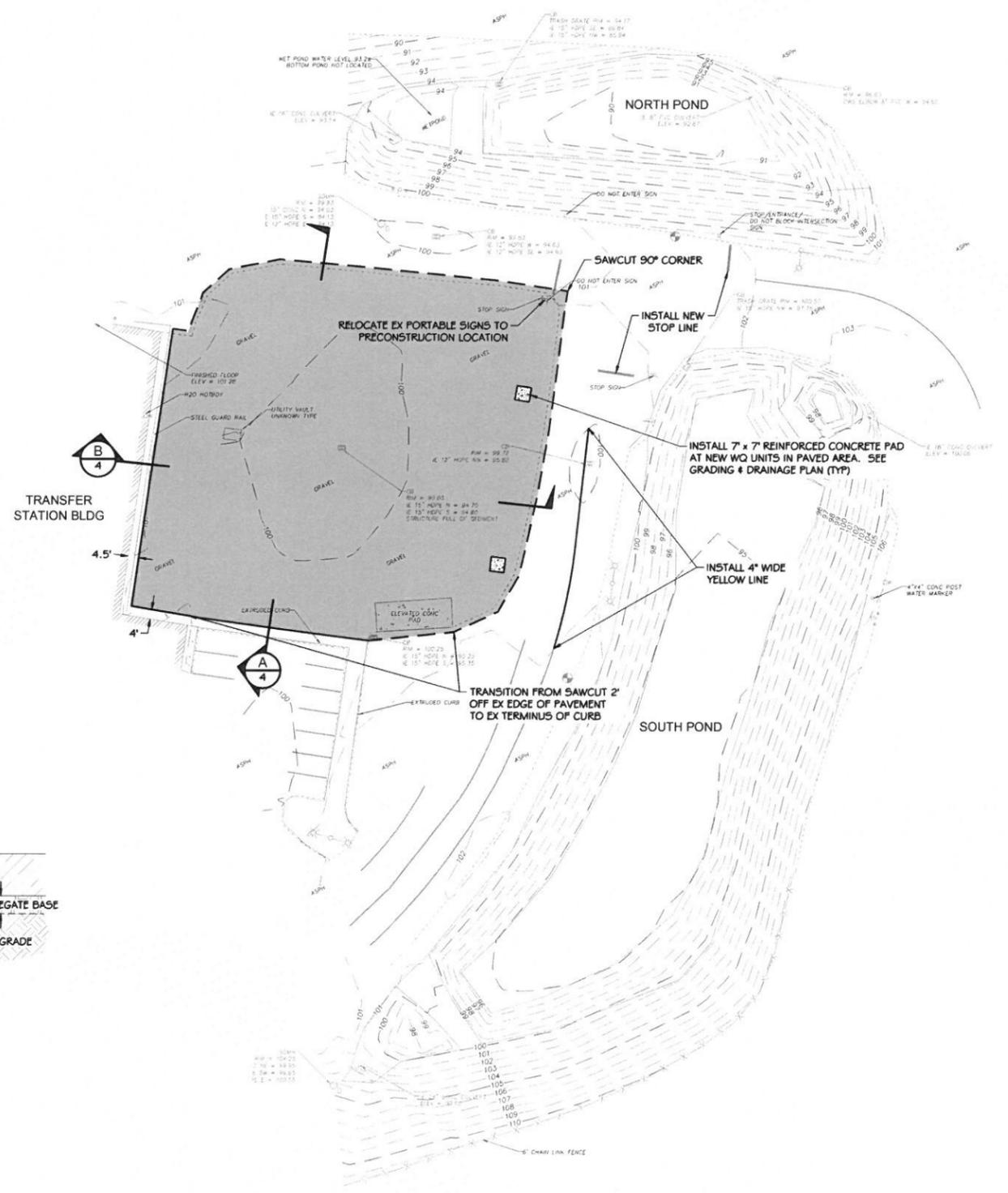
SHEET
3
OF
8



PAVEMENT SECTION A
NTS

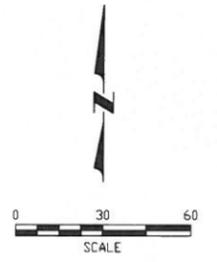


PAVEMENT SECTION B
NTS



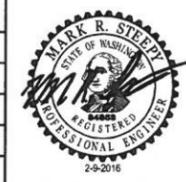
LEGEND	
EXISTING	
	WATER VALVE
	HYDRANT
	WATER METER
	STORM DRAIN MANHOLE
	CATCH BASIN
	BOLLARD
	POST
	SIGN
	LITEPOLE
	WATER LINE
	UNDERGROUND POWER
	STORM LINE
	BUILDING
	CONCRETE
	EDGE OF GRAVEL & ASPHALT
	MAJOR CONTOUR
	MINOR CONTOUR
PROPOSED	
	SAWCUT LINE
	ASPHALT PAVEMENT (SEE CONSTRUCTION NOTES)
	CONCRETE

- CONSTRUCTION NOTES:**
- EQUIPMENT AND VEHICLES SHALL WORK FROM WITHIN THE TRAFFIC SAFETY DRUMS AS SHOWN ON SHEET 2 WITH THE EXCEPTIONS OF NIGHT WORK AS DESCRIBED IN THE CONTRACT AND WORK LOCATED WHOLLY WITHIN THE PONDS. THE FACILITY'S ROADS SHALL BE CLEAR AND OPEN TO TRAFFIC DURING THE FACILITY'S OPERATING HOURS AND FOR AN HOUR BEFORE OPENING AND AFTER CLOSING.
 - NIGHT WORK INCLUDES ASPHALT PAVING AND INSTALLATION OF STORMWATER INFRASTRUCTURE IN THE TRANSFER STATION ROADWAYS PER CONTRACT.



REVISIONS			
No.	BY	DATE	DESCRIPTION

SURVEYED: TJS
DESIGNED: KPK
DRAWN: NLA
CHECKED: MRS
CRP No.
DATE: 02/09/16



kpff
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**OLYMPIC VIEW TRANSFER STATION
RESURFACING AND STORMWATER MAINTENANCE**

PAVING PLAN

SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

BID SET

SHEET 4 OF 8

SURVEY CONTROL POINTS			
PT#	NORTHING	EASTING	ELEVATION
1	100,000.00	500,000.00	100.00'
2	100,165.71	500,165.71	101.43'
3	100,350.07	500,209.53	101.61'
4	100,456.49	500,185.20	93.18'

CITY OF BREMERTON STANDARD STORM DRAINAGE NOTES:

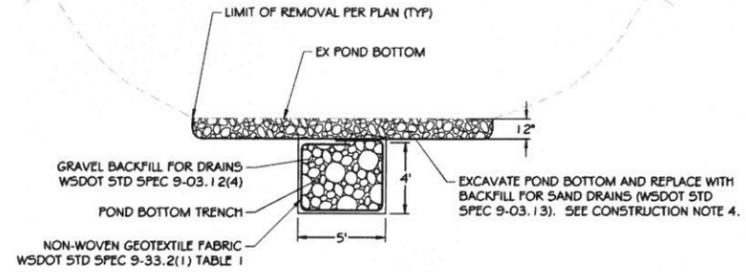
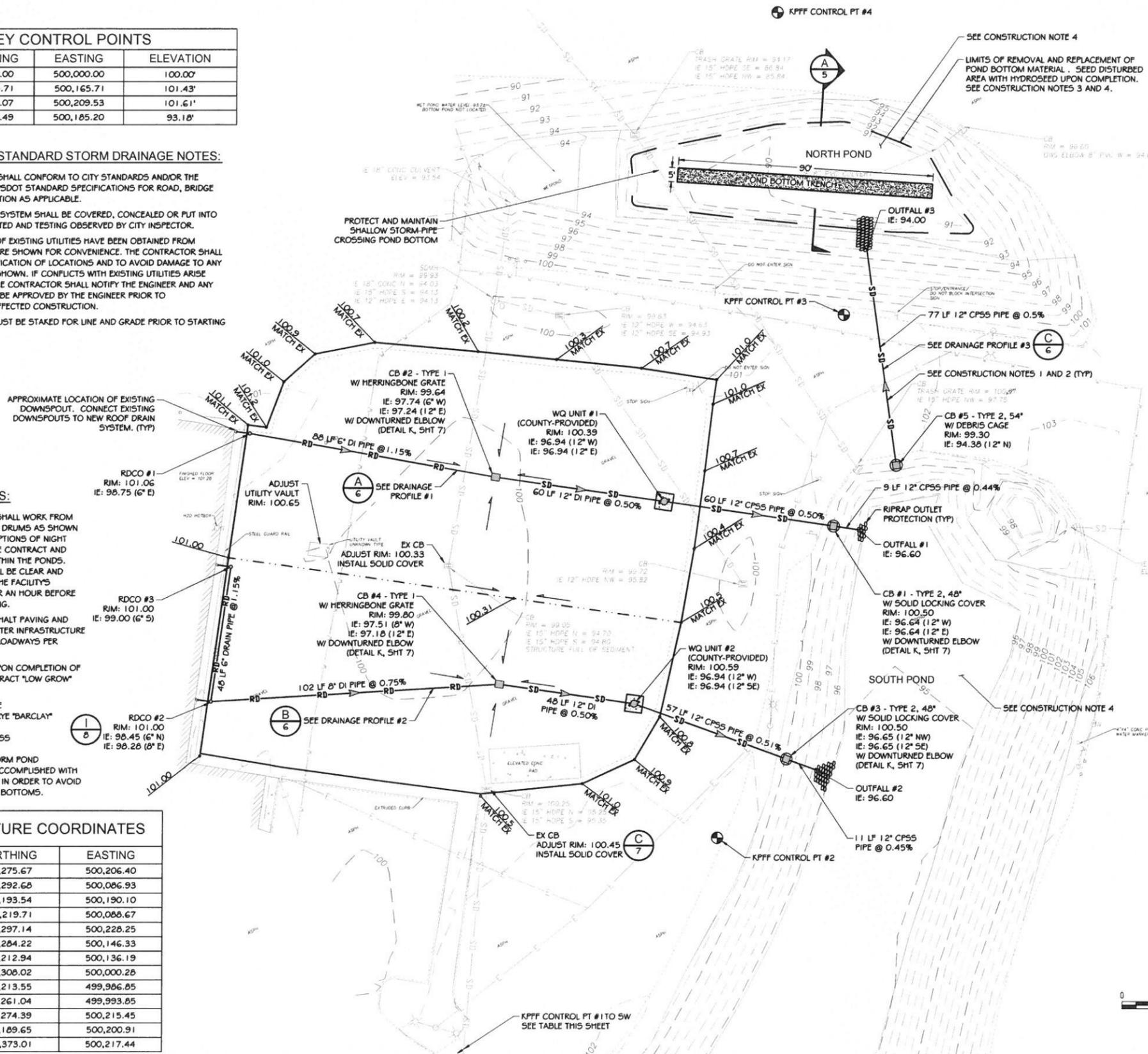
- ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR THE CURRENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS APPLICABLE.
- NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF THE AFFECTED CONSTRUCTION.
- ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

CONSTRUCTION NOTES:

- EQUIPMENT AND VEHICLES SHALL WORK FROM WITHIN THE TRAFFIC SAFETY DRUMS AS SHOWN ON SHEET 2 WITH THE EXCEPTIONS OF NIGHT WORK AS DESCRIBED IN THE CONTRACT AND WORK LOCATED WHOLLY WITHIN THE PONDS. THE FACILITY'S ROADS SHALL BE CLEAR AND OPEN TO TRAFFIC DURING THE FACILITY'S OPERATING HOURS AND FOR AN HOUR BEFORE OPENING AND AFTER CLOSING.
- NIGHT WORK INCLUDES ASPHALT PAVING AND INSTALLATION OF STORMWATER INFRASTRUCTURE IN THE TRANSFER STATION ROADWAYS PER CONTRACT.
- PLANT DISTURBED AREAS UPON COMPLETION OF WORK WITH STORMWATER TRACT "LOW GROW" SEED MIX:
 - 40% DWARF TALL FESCUE
 - 30% DWARF PERENNIAL RYE "BARCLAY"
 - 25% RED FESCUE
 - 05% COLONIAL BENTGRASS
- CONSTRUCTION OF THE STORM POND IMPROVEMENTS SHALL BE ACCOMPLISHED WITH LIGHT, TRACKED EQUIPMENT IN ORDER TO AVOID COMPACTION OF THE POND BOTTOMS.

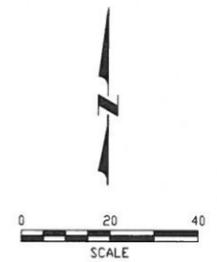
STORM STRUCTURE COORDINATES

NAME	NORTHING	EASTING
CB #1	100,275.67	500,206.40
CB #2	100,292.68	500,086.93
CB #3	100,193.54	500,190.10
CB #4	100,219.71	500,088.67
CB #5	100,297.14	500,228.25
WQ UNIT #1	100,284.22	500,146.33
WQ UNIT #2	100,212.94	500,136.19
RDCO #1	100,308.02	500,000.28
RDCO #2	100,213.55	499,986.85
RDCO #3	100,261.04	499,993.85
OUTFALL #1	100,274.39	500,215.45
OUTFALL #2	100,189.65	500,200.91
OUTFALL #3	100,373.01	500,217.44



LEGEND

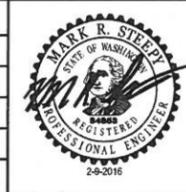
- EXISTING**
- Water Valve
 - Hydrant
 - Water Meter
 - Storm Drain Manhole
 - Catch Basin
 - Bollard
 - Post
 - Sign
 - Litepole
 - Water Line
 - Underground Power
 - Storm Line
 - Building
 - Concrete
 - Edge of Gravel / Asphalt
 - Major Contour
 - Minor Contour
- PROPOSED**
- Catch Basin Type 1 (B-7)
 - Catch Basin Type 2 (E-8)
 - Aqua-Swirl AS-2 (County-Provided) (F-8)
 - Storm Drain Line (H-8)
 - Roof Drain Line (H-8)
 - Ridge Line
 - Riprap Outlet Protection (G-8)
 - Concrete Pad (A-7)
 - Surface Flow Direction
 - RDCO (J-8)



BID SET

REVISIONS			
No.	BY	DATE	DESCRIPTION

SURVEYED:	TJS
DESIGNED:	KPK
DRAWN:	NLA
CHECKED:	MRS
CRP No.	
DATE:	02/09/16

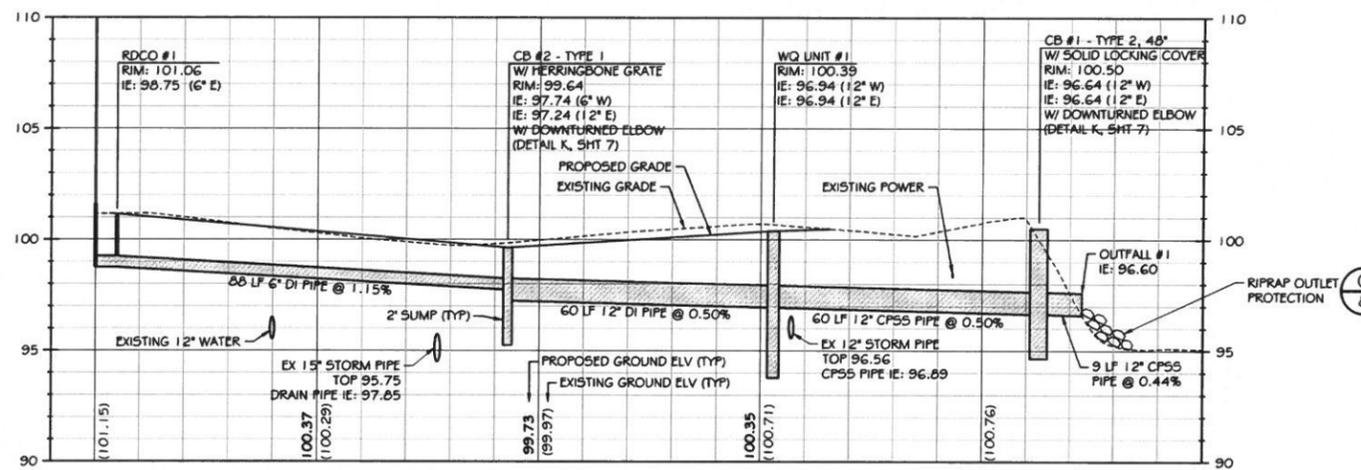


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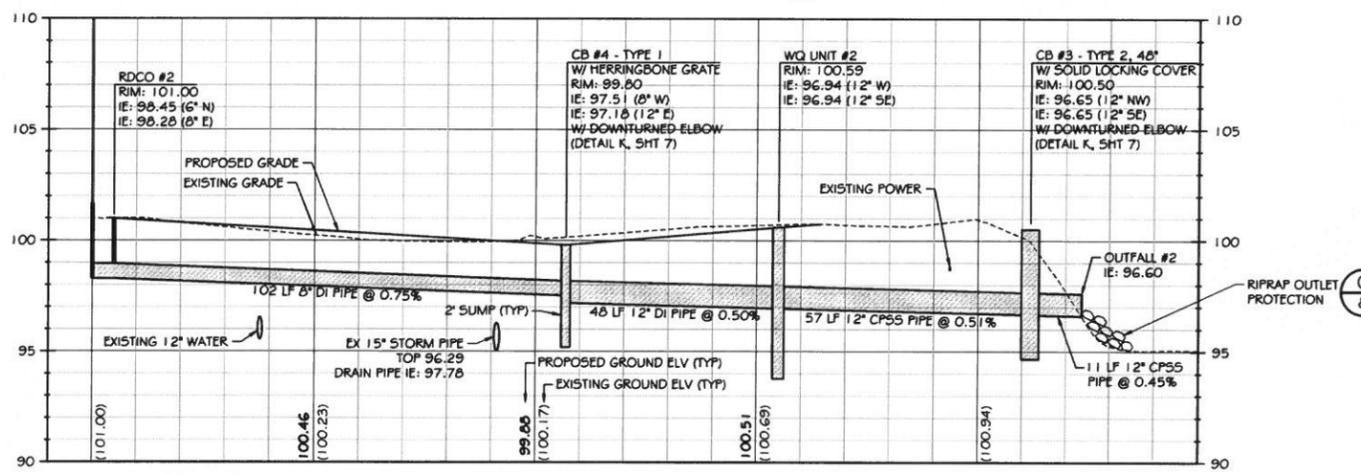
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 614 DIVISION STREET MS-26
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**OLYMPIC VIEW TRANSFER STATION
 RESURFACING AND STORMWATER MAINTENANCE
 GRADING & DRAINAGE PLAN**
 SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

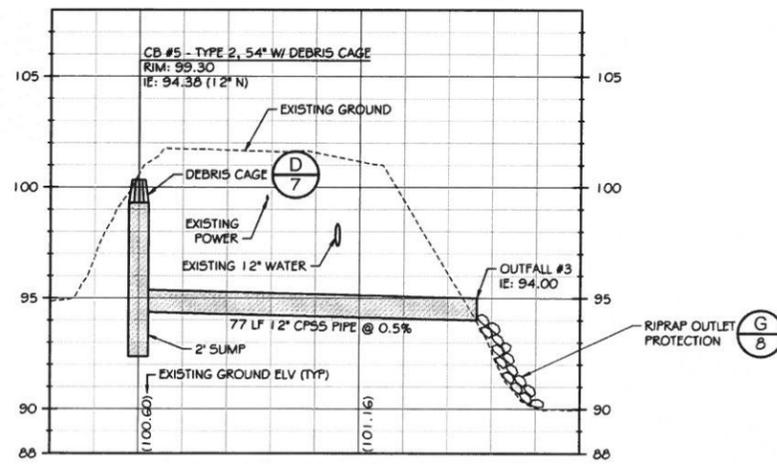
SHEET
5
 OF
8



DRAINAGE PROFILE #1
 HORZ SCALE: 1" = 20' - VERT SCALE: 1" = 4'
 A 5



DRAINAGE PROFILE #2
 HORZ SCALE: 1" = 20' - VERT SCALE: 1" = 4'
 B 5



DRAINAGE PROFILE #3
 HORZ SCALE: 1" = 20' - VERT SCALE: 1" = 4'
 C 5

BID SET

REVISIONS		
No.	BY	DATE

SURVEYED: TJS
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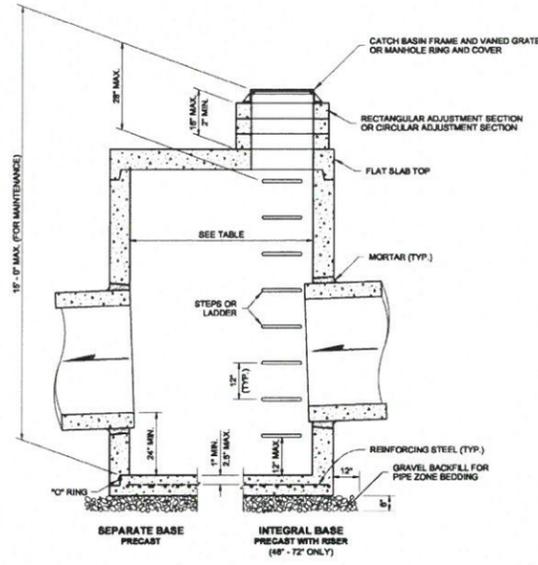


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OLYMPIC VIEW TRANSFER STATION
 RESURFACING AND STORMWATER MAINTENANCE
DRAINAGE PROFILES
 SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

SHEET
6
 OF
 8

DRAWN BY: LISA COTFORD



CATCH BASIN DIMENSIONS

CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES

CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER					
	CONCRETE	ALL METAL	CPSSP	SOLID WALL PVC	PROFILE WALL PVC	PROFILE WALL PVC
48"	24"	30"	24"	30"	30"	30"
54"	30"	36"	30"	36"	36"	36"
60"	36"	42"	36"	42"	42"	42"
72"	42"	54"	42"	48"	48"	48"
84"	54"	60"	54"	48"	48"	48"
96"	60"	72"	60"	48"	48"	48"
120"	66"	84"	60"	48"	48"	48"
144"	78"	96"	60"	48"	48"	48"

① Corrugated Polyethylene Storm Sewer Pipe (Standard Specification 9-06.20)
 ② (Standard Specification 9-06.12(1))
 ③ (Standard Specification 9-06.12(2))



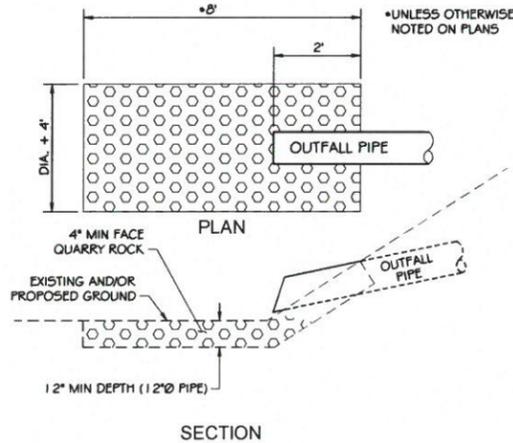
CATCH BASIN TYPE 2
STANDARD PLAN B-10.20-01
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakodich III 02-07-12
 CIVIL ENGINEER
 Washington State Department of Transportation

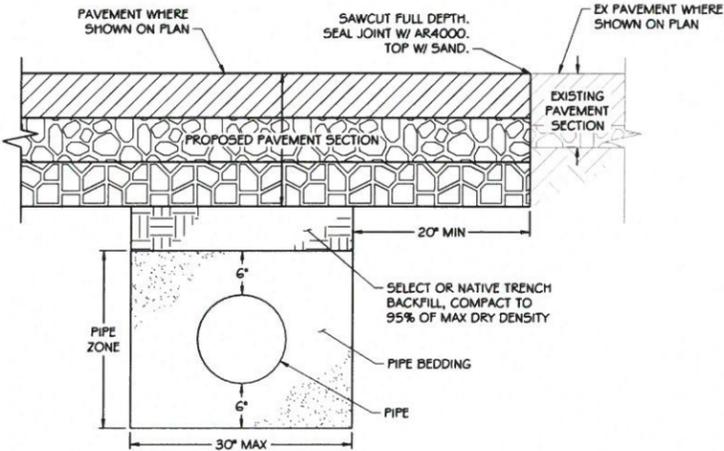
- NOTES**
- No steps are required when height is 4' or less.
 - The bottom of the precast catch basin may be sloped to facilitate cleaning.
 - The rectangular frame and grates may be installed with the flange up or down. The frame may be cast into the adjustment section.
 - Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.

CATCH BASIN TYPE 2
 N.T.S.

NOTE: CATCH BASINS SHALL HAVE 2' SUMPS.



RIPRAP OUTLET PROTECTION
 N.T.S.

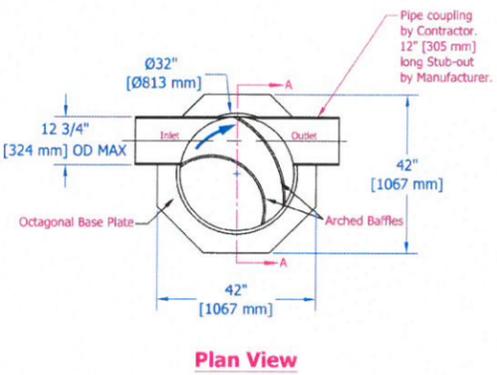
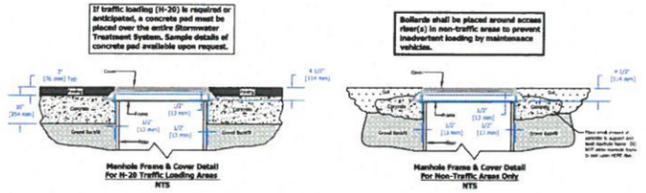


NOTES:

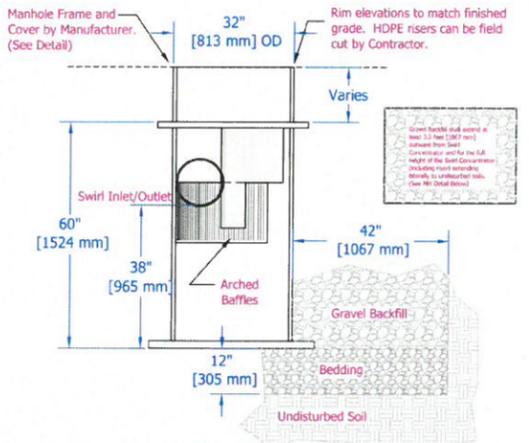
- PIPE SHALL BE BEDDED AND INSTALLED PER WSDOT STD SPEC SECTION 7-08.
- PIPE BEDDING SHALL BE IN ACCORDANCE WITH WSDOT STD SPEC SECTION 9-03.1.2(3).
- COMPACTION IN PIPE ZONE SHALL BE 90% OF MAXIMUM DRY DENSITY. LOOSE LAYERS OF 6" OR LESS SHALL BE CAREFULLY COMPACTED. BACKFILL SHALL BE BROUGHT UP SIMULTANEOUSLY ON EACH SIDE OF PIPE TO TOP OF PIPE ZONE.

STORM PIPE TRENCH
 BASED ON CITY OF BREMERSTON STANDARD DETAILS 4080, 4081 AND 3155
 NOT TO SCALE

- * Please see accompanied Aqua-Swirl specification notes.
 * See Site Plan for actual system orientation.



Plan View

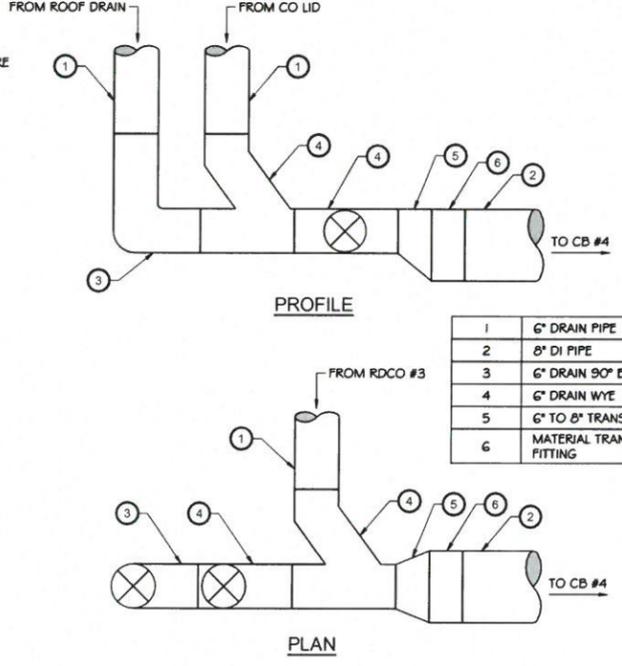


Section A-A

Aqua-Swirl Concentrator Model AS-2 CFD Standard Detail

AquaShield
 Document: AS-2 STD
 Drawn By: RLK
 Scale: 1:20
 Date: 03/02/09
 U.S. Patent No. 6524473 and other Patent Pending

AQUA-SWIRL AS-2
 (COUNTY-PROVIDED - PURCHASE NIC)

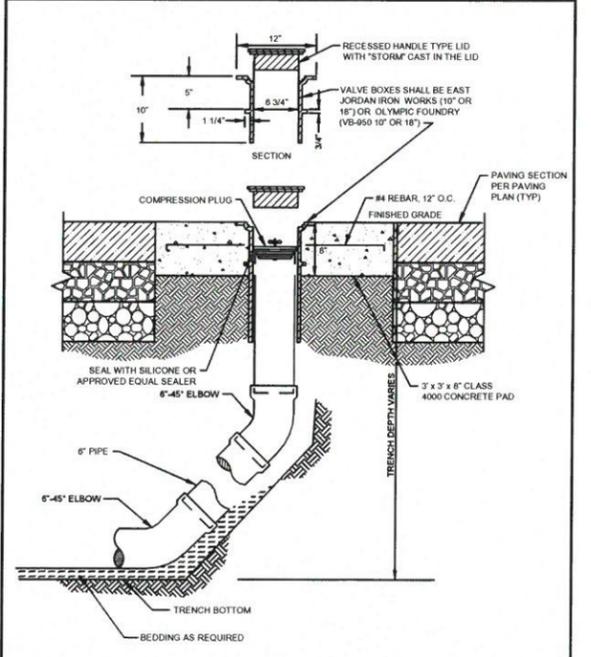


PROFILE

PLAN

1	6" DRAIN PIPE
2	8" DI PIPE
3	6" DRAIN 90° ELBOW
4	6" DRAIN WYE
5	6" TO 8" TRANSITION
6	MATERIAL TRANSITION FITTING

RDCO #2 DETAIL
 N.T.S.



CLEANOUT DETAIL
 N.T.S.

BID SET

REVISIONS

No.	BY	DATE	DESCRIPTION

SURVEYED: TJS
 DESIGNED: KPK
 DRAWN: NLA
 CHECKED: MRS
 CRP No.
 DATE: 02/09/16



kpff
 612 Woodland Square Loop SE
 Suite 100
 Lacey, WA 98503
 360.292.7230
 www.kpff.com



KITSAP COUNTY
 DEPT. OF PUBLIC WORKS
 614 DIVISION STREET MS-26
 PORT ORCHARD, WA 98366
 TEL:(360) 337-5777 FAX:(360) 337-4887

OLYMPIC VIEW TRANSFER STATION
RESURFACING AND STORMWATER MAINTENANCE
DRAINAGE DETAILS
 SECTION 11, TOWNSHIP 23 NORTH, RANGE 1 WEST, W.M.

SHEET
8
 OF
8