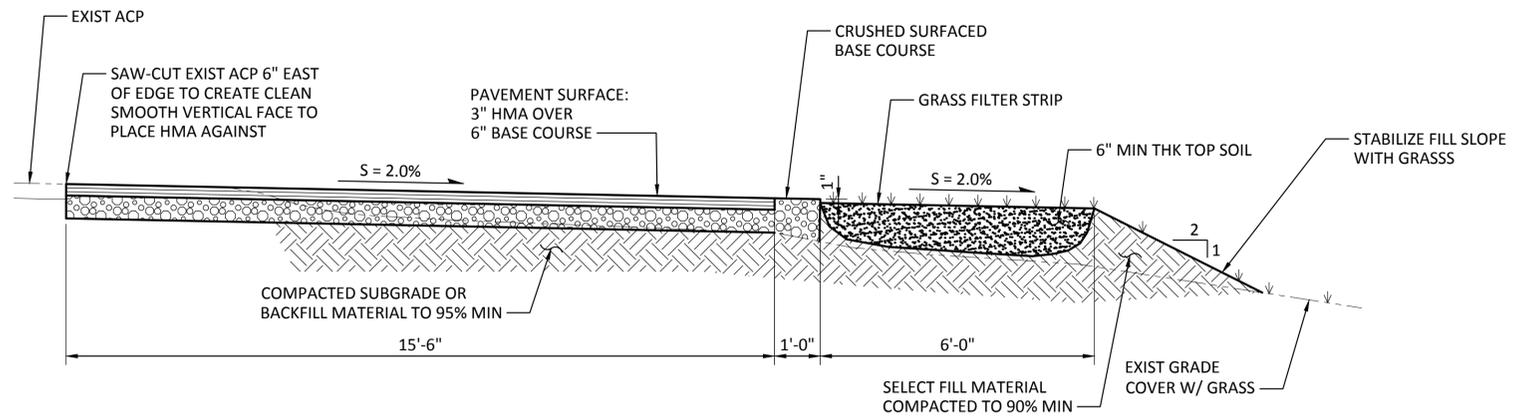
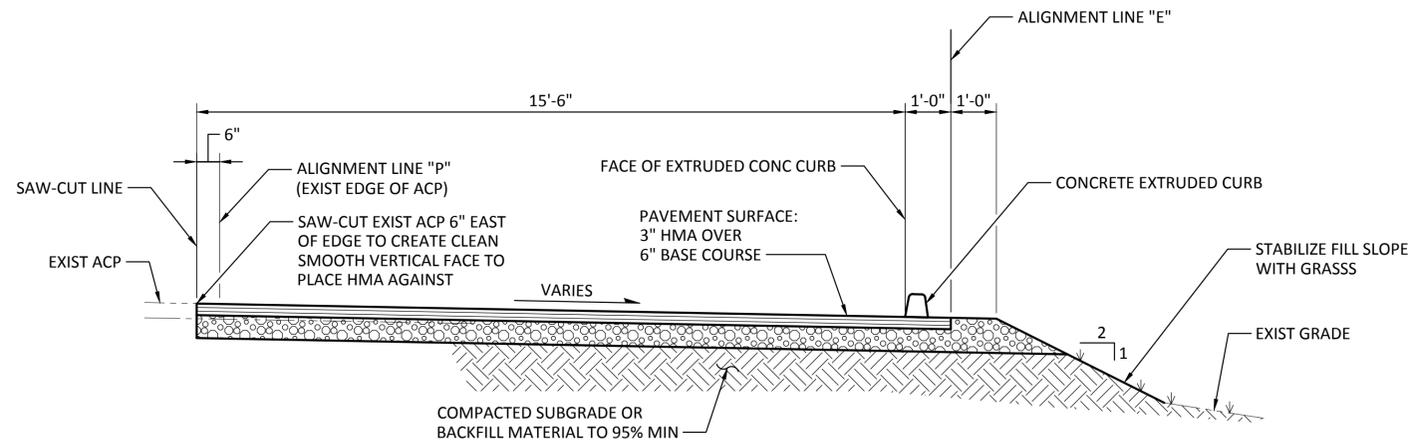


1 PLAN VIEW
NTS



A TYPICAL FILTER STRIP DETAIL
NTS
C-6
C-7
C-9
C-10



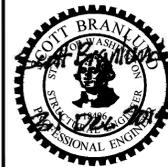
B TYPICAL SECTION - PAVEMENT EXTENSION W/ CURB
NTS
C-5
C-6
C-8
C-9

NOTE:
TRANSVERSE SLOPE DICTATED BY
PROFILES FOR LINE 'E' AND LINE 'P'.

BID DOCUMENTS

MARK	REVISION DESCRIPTION	BY	APP.	DATE

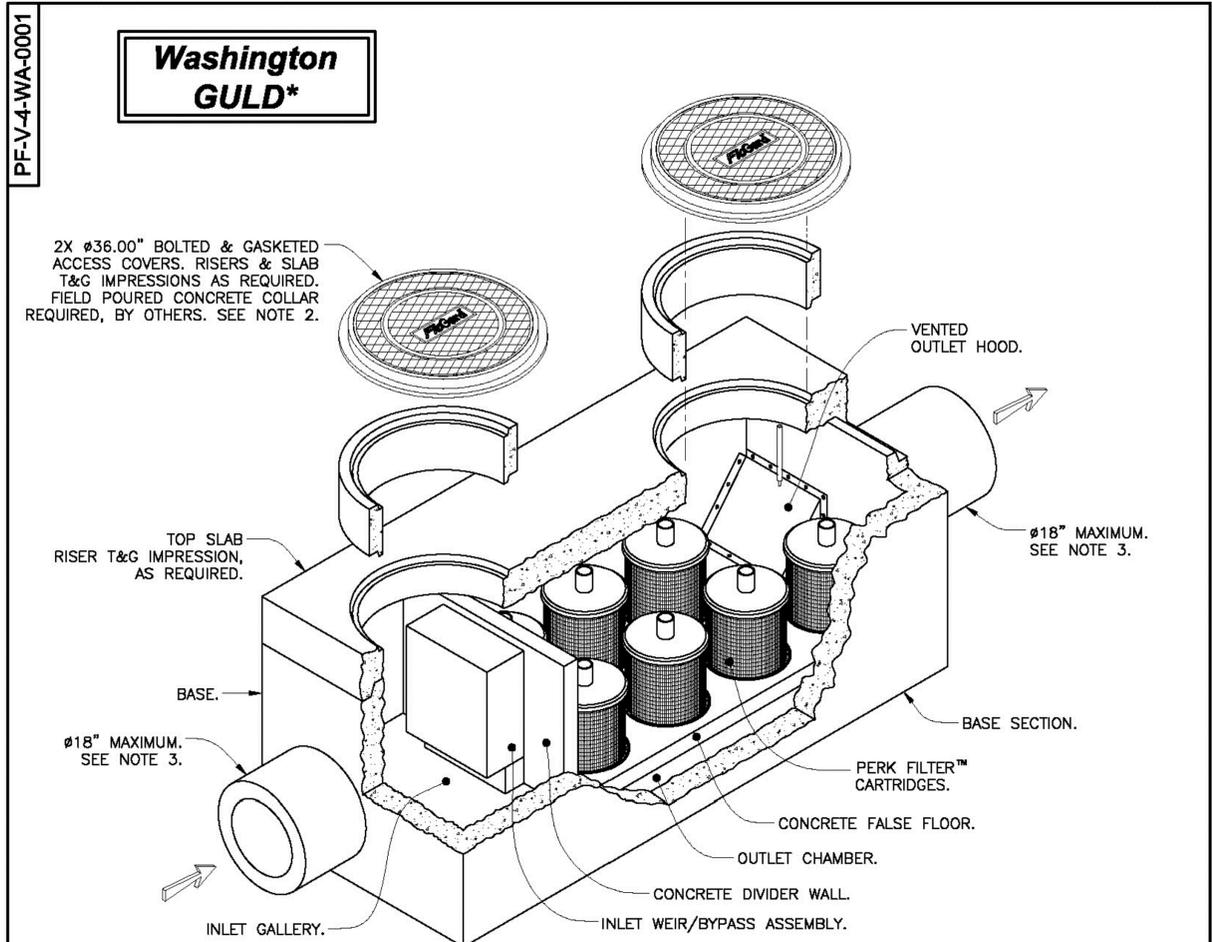
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DESIGN BY VHN
CHECK BY CSB
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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**
GRADING & DRAINAGE DETAILS - SHEET 1

DRAWING NO. **C-14**
PROJECT NO. FAWAT-12-145
DATE: 10/8/14
SHEET NO. 21 OF 48

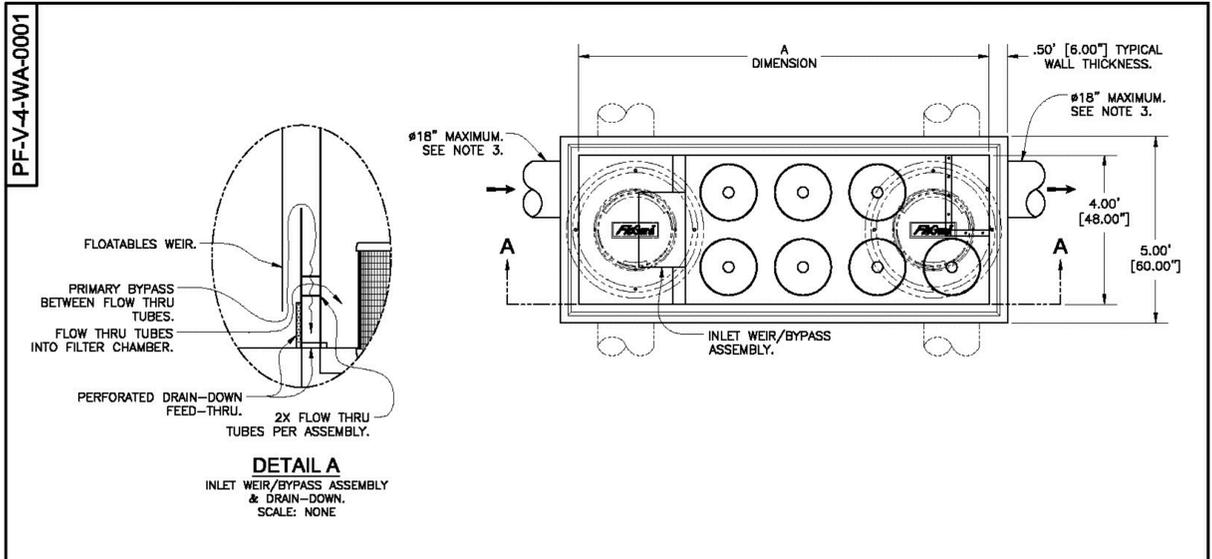


- Notes:**
1. Precast concrete structure shall be manufactured in accordance with ASTM Designation C857 and C858.
 2. Filter system shall be supplied with traffic rated (H20) bolted & gasketed Ø36" circular access covers with risers as required. Shallow applications may require configurations with (H20) bolted & gasketed square/rectangular access hatches. Contact KriStar Enterprises, Inc for engineering assistance. Field poured concrete collars required, by others.
 3. Inlet & outlet pipe(s) (Ø 18" maximum) may enter device on all three sides of the inlet & outlet chambers respectively. For pipe sizes greater than Ø 18", contact KriStar Enterprises for engineering assistance.
 4. Inlet chamber shall be supplied with drain-down device, designed to remove standing water between storm events.
 5. Perk-Filter systems may be supplied with individual or multiple 18" or 12" high Perk-Filter cartridges. Filter cartridge may be stacked to accommodate higher flow rates. Contact KriStar Enterprises for capacities.
 6. For depths less than specified minimums contact KriStar Enterprises for engineering assistance.
- * Treatment Flow Rates shown conform to Washington State GULD Specifications.**

TITLE
FloGard® Perk Filter™
4' WIDE CONCRETE VAULT
Washington State GULD
THREE TO SEVEN CARTRIDGES / STACKS

KriStar Enterprises, Inc.
 360 Sutton Place, Santa Rosa, CA 95407
 Ph: 800.579.8819, Fax: 707.524.8186, www.kristar.com

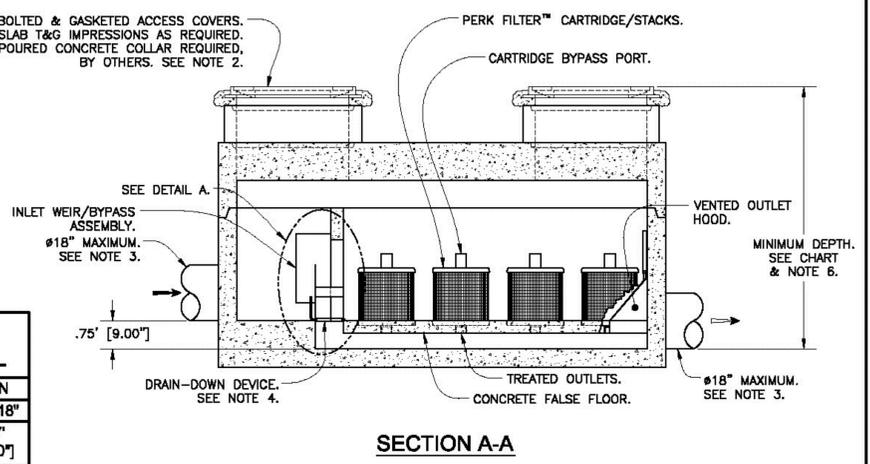
DRAWING NO. PF-V-4-WA-0001 REV. ECO 0108 JPR 11/15/12 DATE JPR 3/2/11 SHEET 1 OF 2



Washington GULD*

MINIMUM DEPTH - RIM TO OUTLET INVERT - CARTRIDGE STACK CONFIGURATION

12"	18"	12" + 12"	12" + 18"
4.25' [51.00"]	5.00' [60.00"]	5.92' [71.00"]	6.67' [80.00"]



4' VAULT TREATMENT FLOW RATES, TOTAL FLOW CAPACITIES & MAXIMUM HEAD LOSS

CARTRIDGE STACK QUANTITY	A DIMENSION - LENGTH - (ID- FEET)	CARTRIDGE STACK CONFIGURATION							
		12"		18"		12" & 12"		12" & 18"	
		TREATMENT FLOW RATE (GPM / CFS)	TOTAL FLOW CAPACITY (CFS)	TREATMENT FLOW RATE (GPM / CFS)	TOTAL FLOW CAPACITY (CFS)	TREATMENT FLOW RATE (GPM / CFS)	TOTAL FLOW CAPACITY (CFS)	TREATMENT FLOW RATE (GPM / CFS)	TOTAL FLOW CAPACITY (CFS)
3	7	20.4 / 0.045	2.9	30.6 / 0.068	4.3	40.8 / 0.091	5.0	51.0 / 0.114	6.7
4	9	27.2 / 0.061	2.9	40.8 / 0.091	4.4	54.4 / 0.121	5.0	68.0 / 0.152	6.8
5	9	34.0 / 0.078	2.9	51.0 / 0.114	4.4	68.0 / 0.152	5.1	85.0 / 0.190	6.8
6	11	40.8 / 0.091	3.0	61.2 / 0.136	4.5	81.6 / 0.182	5.1	102.0 / 0.227	6.9
7	11	47.6 / 0.106	3.0	71.4 / 0.159	4.5	95.2 / 0.212	5.2	119.0 / 0.265	7.0
MAXIMUM HEAD LOSS		1.7 FEET		2.3 FEET		2.9 FEET		3.5 FEET	

TITLE
FloGard® Perk Filter™
4' WIDE CONCRETE VAULT
Washington State GULD
THREE TO SEVEN CARTRIDGES / STACKS

KriStar Enterprises, Inc.
 360 Sutton Place, Santa Rosa, CA 95407
 Ph: 800.579.8819, Fax: 707.524.8186, www.kristar.com

DRAWING NO. PF-V-4-WA-0001 REV. ECO 0108 JPR 11/15/12 DATE JPR 3/2/11 SHEET 2 OF 2

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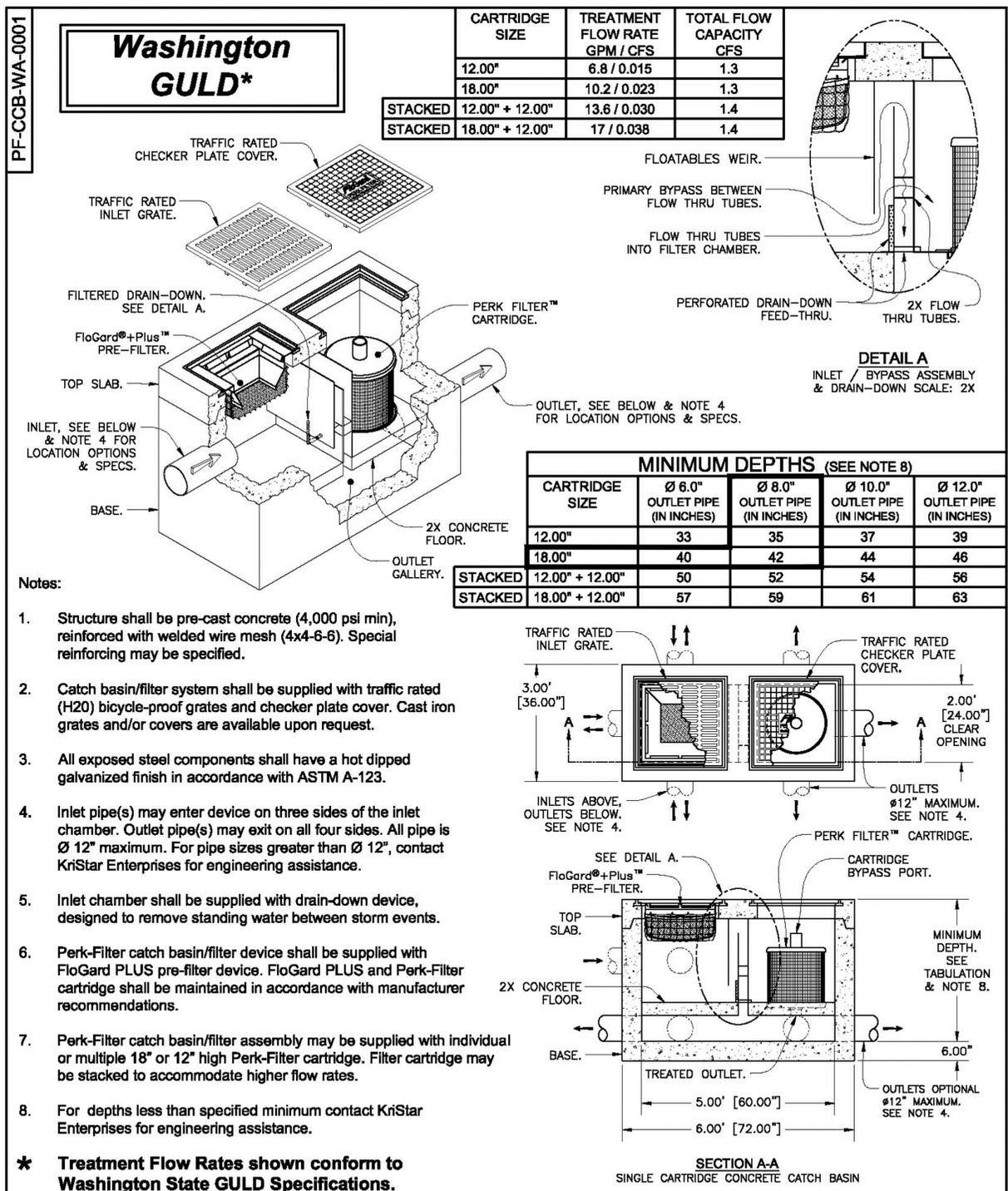
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PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II
GRADING & DRAINAGE DETAILS - SHEET 2

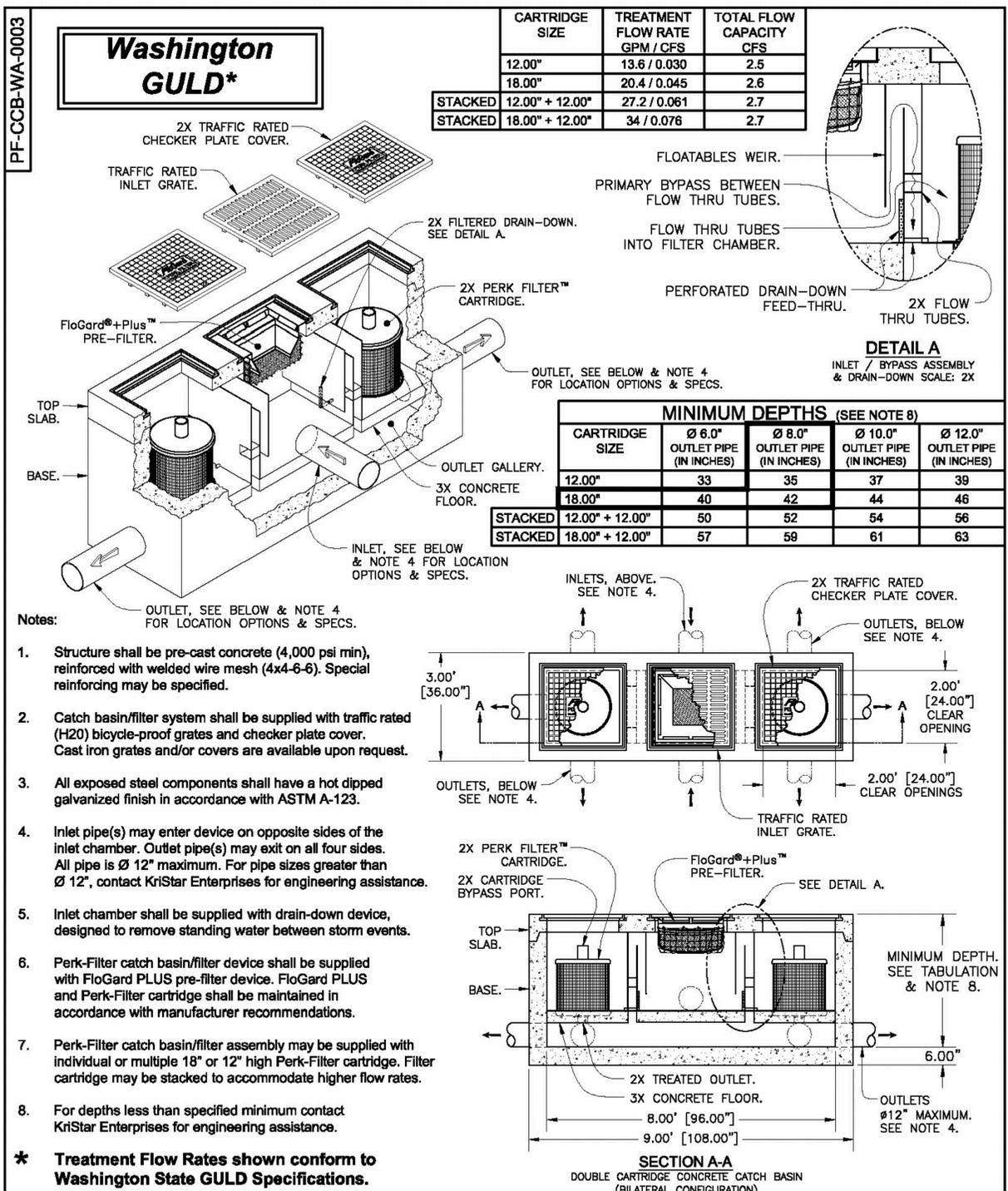
DRAWING NO. **C-15**
 PROJECT NO. FAWAT-12-145
 DATE: 10/8/14
 SHEET NO. 22 OF 48



TITLE
FloGard® Perk Filter™
 Concrete Catch Basin
 Washington State GULD
 - SINGLE CARTRIDGE -

KRISTAR
KriStar Enterprises, Inc.
 360 Sutton Place, Santa Rosa, CA 95407
 Ph: 800.579.8819, Fax: 707.524.8186, www.kristar.com

DRAWING NO. PF-CCB-WA-0001
 REV. A
 ECO 0108
 JPR 11/15/12
 DATE JPR 3/2/11
 SHEET 1 OF 1



TITLE
FloGard® Perk Filter™
 CONCRETE CATCH BASIN
 Washington State GULD
 - DOUBLE CARTRIDGE - (BILATERAL CONFIGURATION)

KRISTAR
KriStar Enterprises, Inc.
 360 Sutton Place, Santa Rosa, CA 95407
 Ph: 800.579.8819, Fax: 707.524.8186, www.kristar.com

DRAWING NO. PF-CCB-WA-0003
 REV. A
 ECO 0108
 JPR 11/15/12
 DATE JPR 3/2/11
 SHEET 1 OF 1

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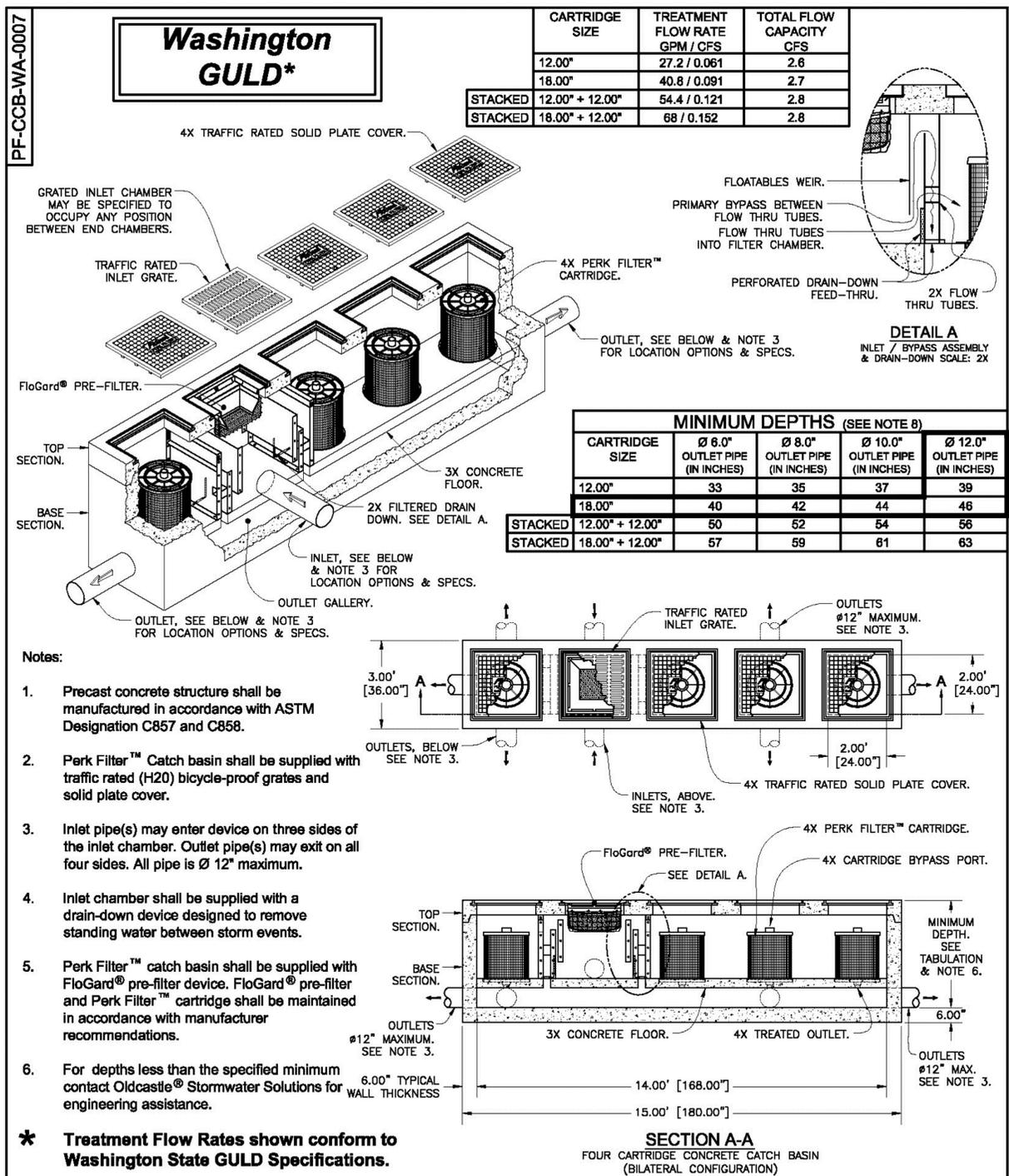
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PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II
 GRADING & DRAINAGE DETAILS - SHEET 3

DRAWING NO. **C-16**
 PROJECT NO. FAWAT-12-145
 DATE: 10/8/14
 SHEET NO. 23 OF 48



Perko Filter™
Concrete Catch Basin
Four Cartridge
Washington State GULD
(Bilateral Configuration)

Media Filtration

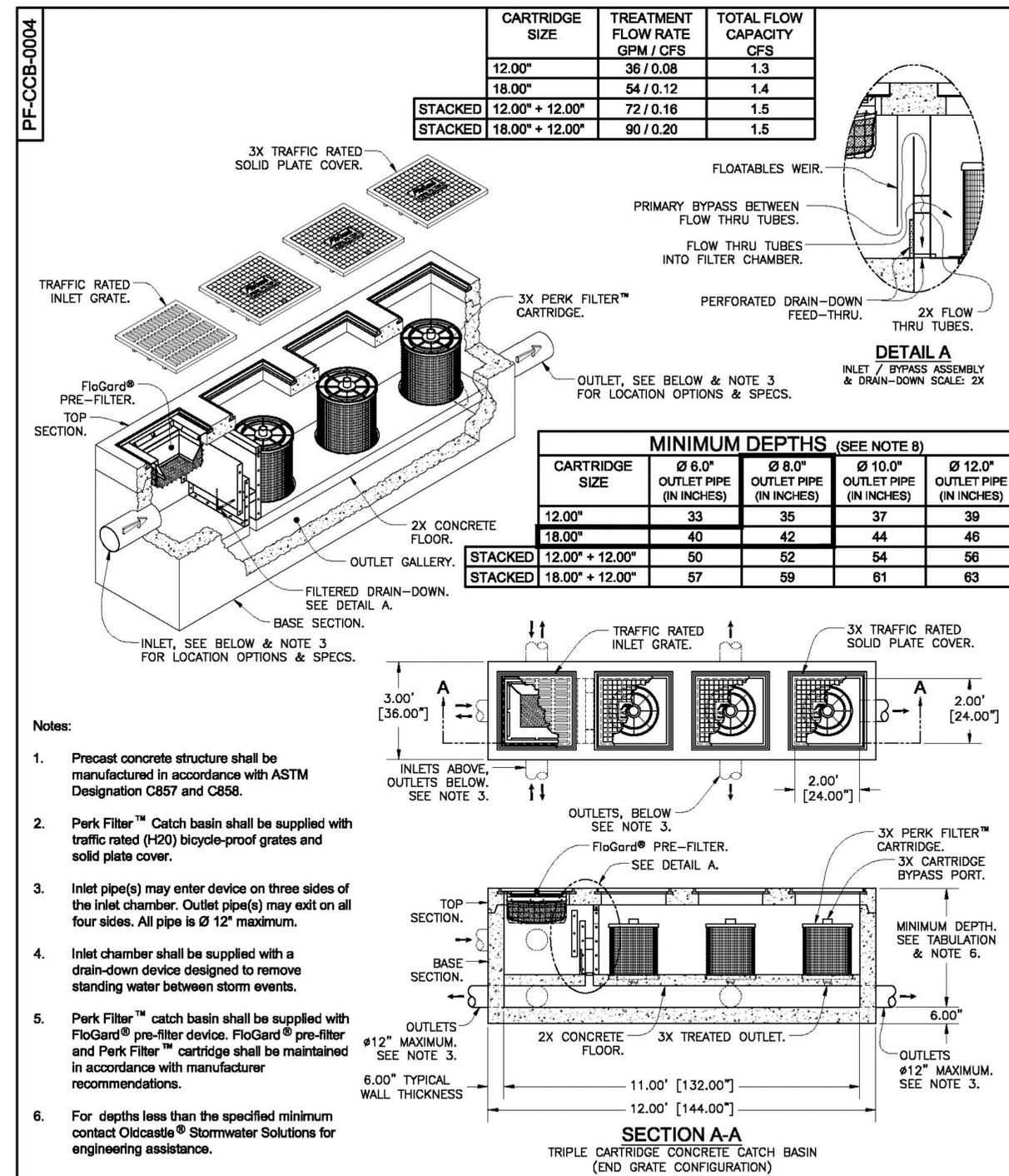
Oldcastle®
Stormwater Solutions

7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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PF-CCB-WA-0007	C	JPR		JPR	3/2/11

SHEET 1 OF 1



Perko Filter™
Concrete Catch Basin
Triple Cartridge
(End Grate Configuration)

Media Filtration

Oldcastle®
Stormwater Solutions

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PF-CCB-0004	F	JPR		JPR	6/4/08

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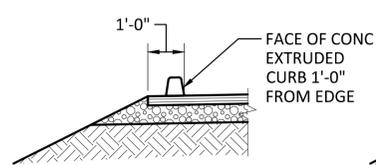
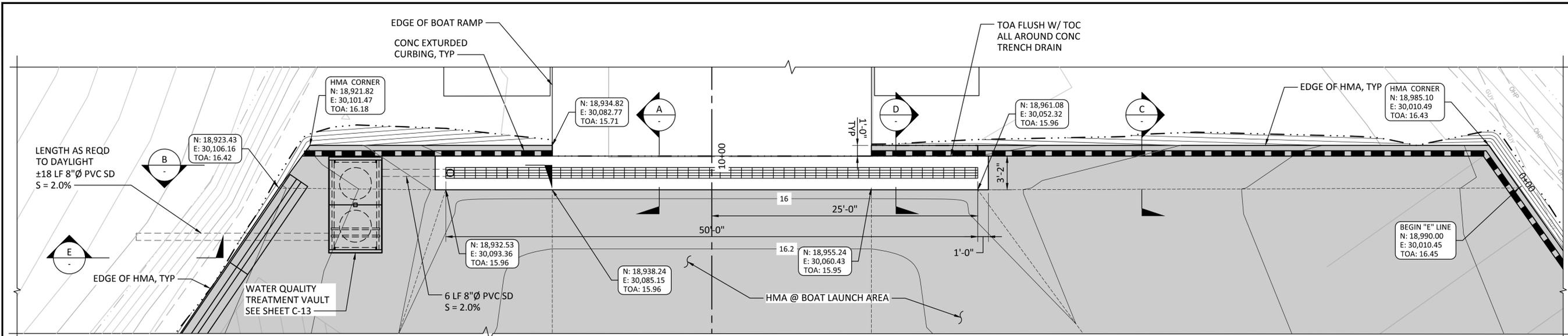
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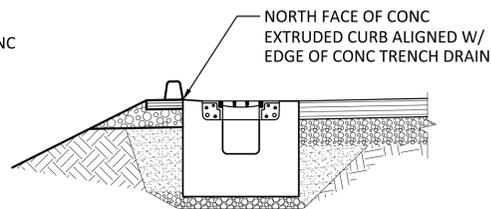
**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**

GRADING & DRAINAGE DETAILS - SHEET 4

DRAWING NO.	C-17
PROJECT NO.	FAWAT-12-145
DATE:	10/8/14
SHEET NO.	24 OF 48

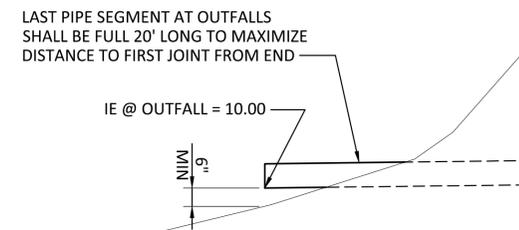


C SECTION
SCALE: NTS



D SECTION
SCALE: NTS

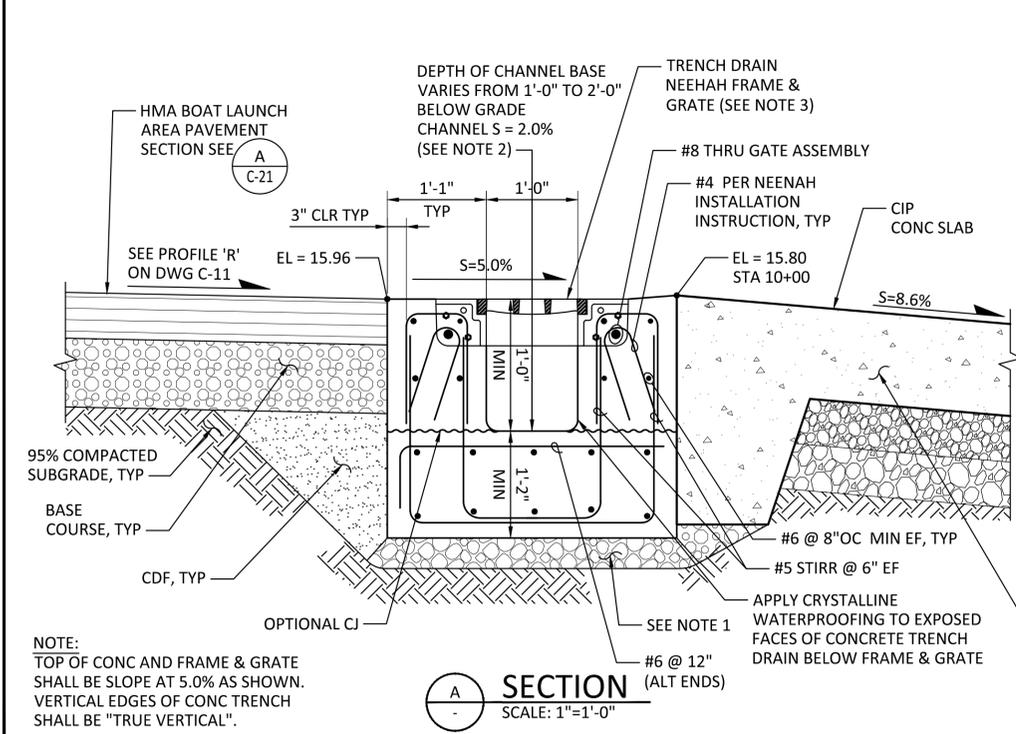
1 ENLARGED TRENCH DRAIN PLAN
SCALE: 1" = 5' scale feet



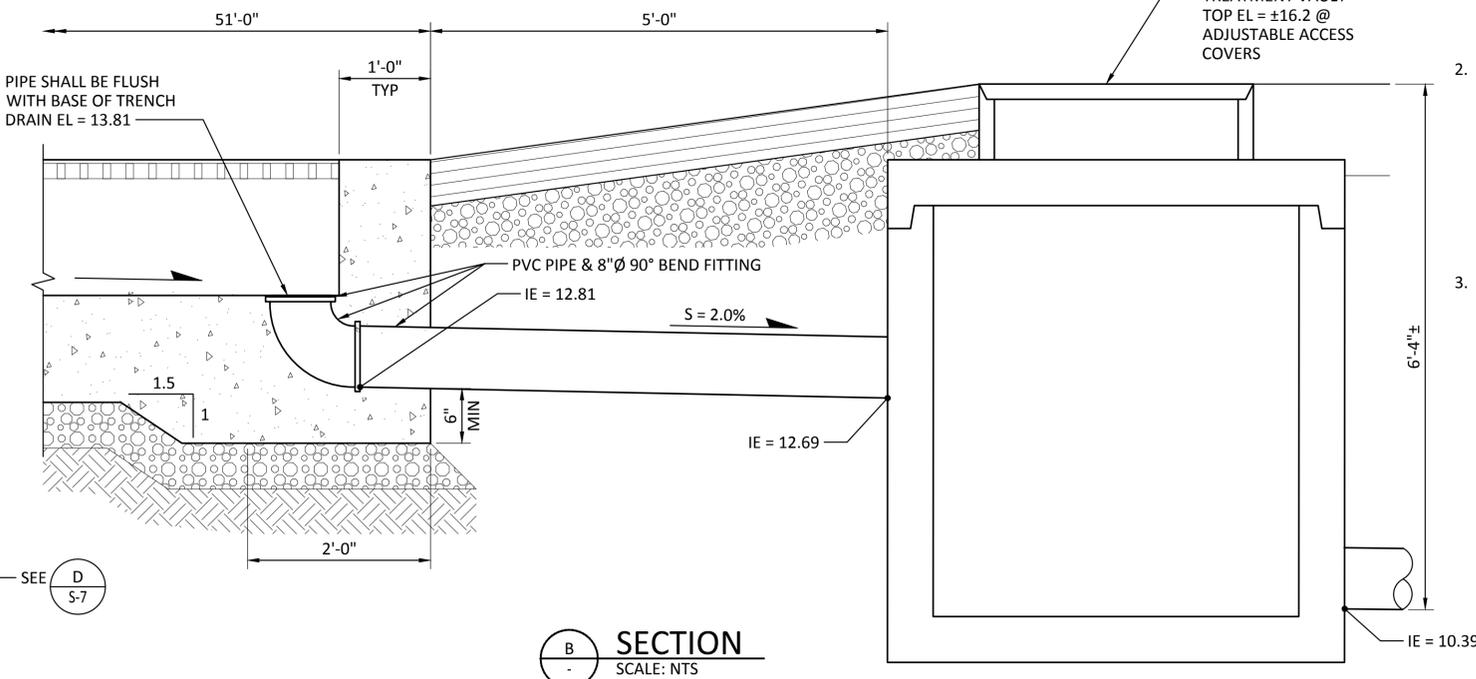
E SECTION
SCALE: NTS

NOTES FOR SECTIONS A & B:

1. COMPACT SUBGRADE, PLACE 4" MIN OF BASE COURSE TO CREATE SURFACE FOR CIP CONCRETE CONSTRUCTION, AND BACKFILL SIDES WITH CDF AS SHOWN ON SECTION A.
2. WIDTH OF CHANNEL SHALL BE 1'-0" AND MIN DEPTH OF CHANNEL AT WEST SIDE OF ROAD SHALL BE 1'-0", MEASURED FROM DOWNHILL SIDE OF TOP OF GRATING. BOTTOM SLOPE OF TRENCH DRAIN SHALL = 2.0%
- LENGTH OF TRENCH DRAIN, L = 50'-0"
- BOTTOM OF TRENCH CHANNEL (WEST END): EL = 14.81
- BOTTOM OF TRENCH CHANNEL (EAST END): EL = 13.81
3. TRENCH DRAIN FRAME AND GRATE: NEENAM R4993-DAB, TYPE T FRAME AND TYPE A OR C GRATE. AIRPORT RATED, BOLTED DOWN TOP OF FRAME AND GRATE SHALL BE RECESSED 1/2-INCH FROM 5% GRADE LINE PROJECTED FROM EL = 15.80 @ STA 10+00 TO EL = 15.96 @ STA 10+03.17



A SECTION
SCALE: 1"=1'-0"



B SECTION
SCALE: NTS

NOTE:
TOP OF CONC AND FRAME & GRATE SHALL BE SLOPE AT 5.0% AS SHOWN. VERTICAL EDGES OF CONC TRENCH SHALL BE "TRUE VERTICAL".

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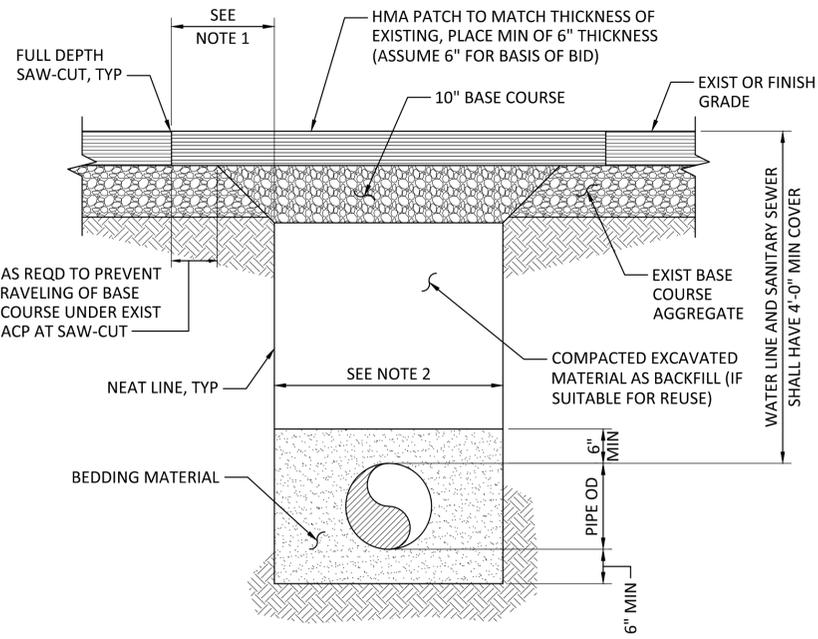
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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**
GRADING & DRAINAGE DETAILS - SHEET 5

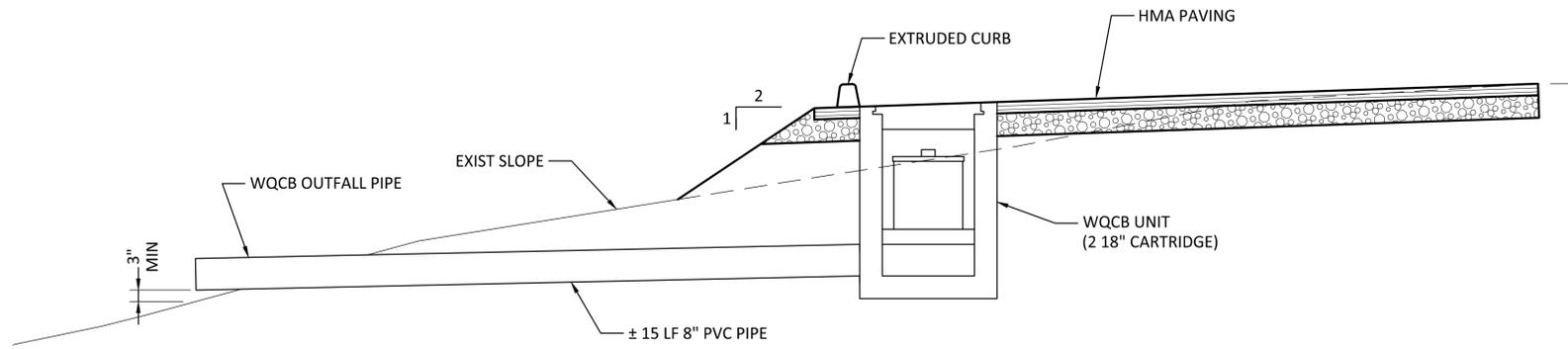
DRAWING NO. **C-18**
PROJECT NO. **FAWAT-12-145**
DATE: **10/8/14**
SHEET NO. **25 OF 48**



1
DETAIL - TYP TRENCH
SCALE: 3/4"=1'-0"

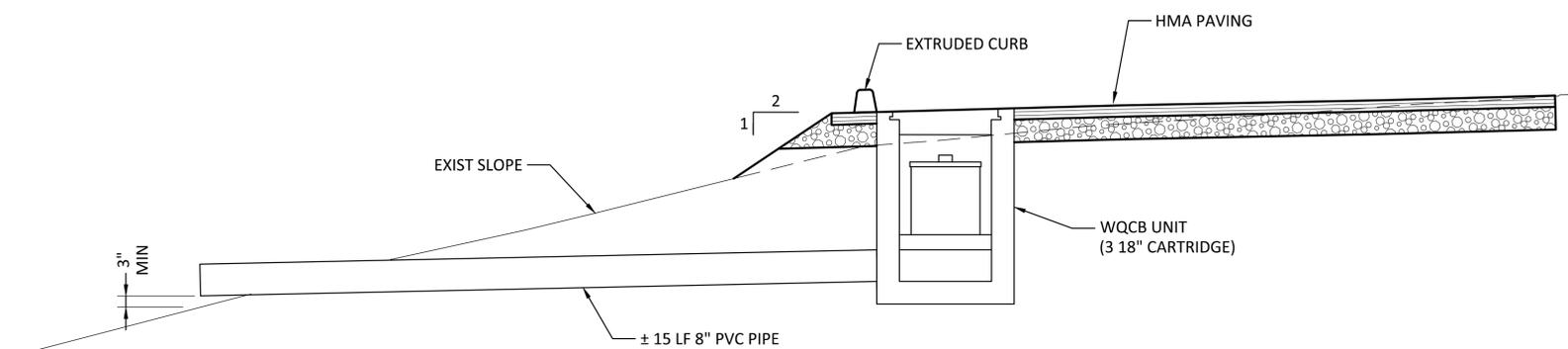
NOTES FOR PIPE TRENCH DETAIL

1. CONTRACTOR SHALL DETERMINE LOCATION OF SAW-CUTS (WIDTH OF EXIST PAVEMENT OR CONC REMOVAL) FOR PIPE TRENCH SUCH THAT NO RAVELING OF EXISTING BASE COURSE AGGREGATE OCCURS BELOW EXIST PAVEMENT OR CONC AT SAW-CUT LINE. IF RAVELING OF EXIST BASE COURSE DOES OCCUR UNDER PAVEMENT OR CONC, CONTRACTOR SHALL MAKE ANOTHER SAW-CUT FURTHER BACK TO ACHIEVE A SUPPORTED EDGE OF PAVEMENT OR CONC AT NO ADDITIONAL COST. APPLY TACK COAT TO VERTICAL FACES PRIOR TO PLACING HMA PATCH.
2. TRENCH WIDTH FOR WATER PIPE SHALL BE 2'-6". TRENCH WIDTH FOR SS AND SD PIPES 15" DIA AND SMALLER SHALL BE 3'-4".
3. PIPE MARKER TAPE NOT SHOWN, BUT SHALL BE PLACED AS DIRECTED IN SPECIFICATIONS.
4. TRENCH SAFETY SYSTEMS (SHORING) SHALL BE USED AS APPLICABLE AND AS DESCRIBED BY OSHA TO MAINTAIN VERTICAL SIDES FOR TRENCH AND MINIMIZE AMOUNT OF EXCAVATION, BACKFILL, AND SURFACE REPAIR. LAYING BACK TRENCH EXCAVATION (FLATTER SIDE SLOPES) IN LIEU OF SHORING SHALL NOT BE ALLOWED.
5. DEWATER TRENCH AS NECESSARY FOR DEEPER EXCAVATIONS.



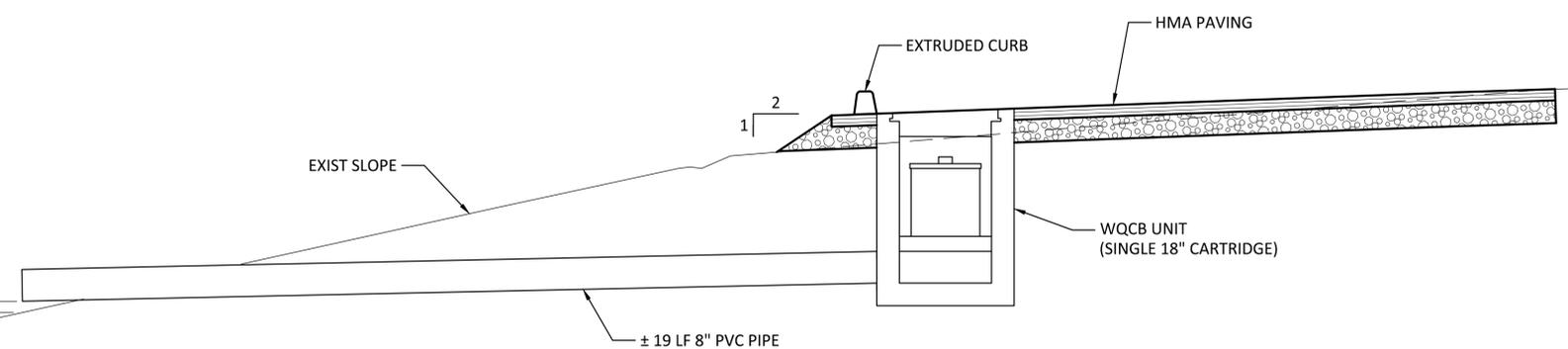
NOTE:
CONSTRUCT 1'-0" THK x 4'-0" WIDE x 8'-0" LONG BED OF QUARRY SPALLS AT OUTFALL LOCATION. TOP OF QUARRY SPALLS SHALL BE FLUSH WITH TOP OF EXIST GRADE. UPHILL SIDE OF QUARRY SPALL BED SHALL BE LOCATED WHERE PIPE INVERT DAYLIGHTS.

A
C-8
SECTION - E-LINE STA 2+02
SCALE: 1/2"=1'-0"



NOTE:
CONSTRUCT 1'-0" THK x 4'-0" WIDE x 8'-0" LONG BED OF QUARRY SPALLS AT OUTFALL LOCATION. TOP OF QUARRY SPALLS SHALL BE FLUSH WITH TOP OF EXIST GRADE. UPHILL SIDE OF QUARRY SPALL BED SHALL BE LOCATED WHERE PIPE INVERT DAYLIGHTS.

B
C-9
SECTION - E-LINE STA 6+33
SCALE: 1/2"=1'-0"



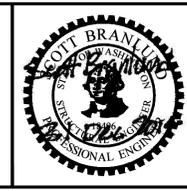
NOTE:
CONSTRUCT 1'-0" THK x 4'-0" WIDE x 8'-0" LONG BED OF QUARRY SPALLS AT OUTFALL LOCATION. TOP OF QUARRY SPALLS SHALL BE FLUSH WITH TOP OF EXIST GRADE. UPHILL SIDE OF QUARRY SPALL BED SHALL BE LOCATED WHERE PIPE INVERT DAYLIGHTS.

C
C-9
SECTION - E-LINE STA 6+67
SCALE: 1/2"=1'-0"

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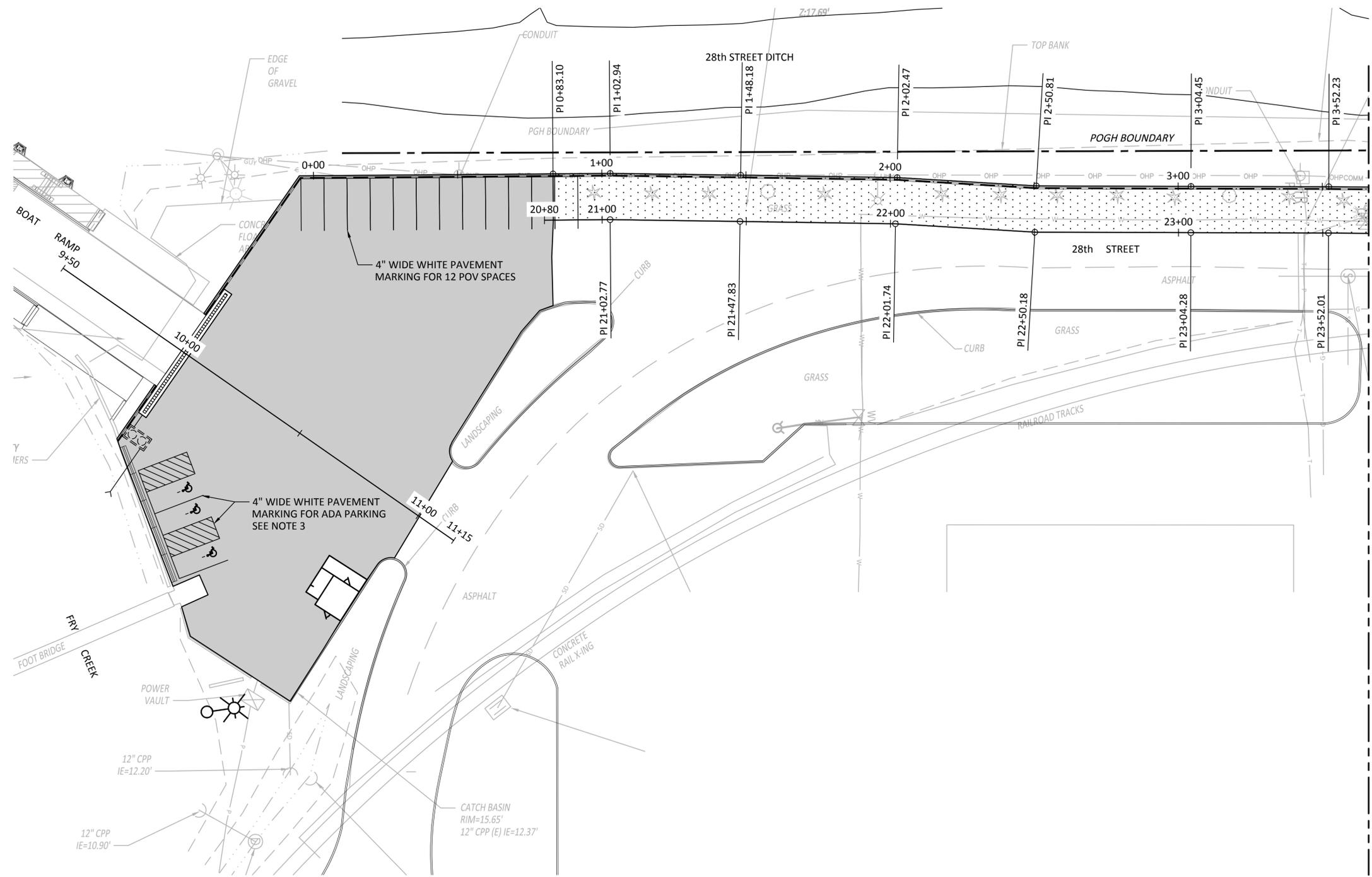


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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**

GRADING & DRAINAGE DETAILS - SHEET 6

DRAWING NO. **C-19**
PROJECT NO. FAWAT-12-145
DATE: 10/8/14
SHEET NO. 26 OF 48

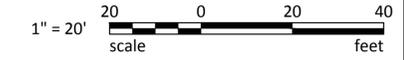


- NOTES:**
1. QUANTITIES IN LEGEND REPRESENT TOTAL PROJECT QUANTITIES.
 2. WHERE CONCRETE CURB IS SHOWN, INSIDE FACE SHALL BE LOCATED 1'-0" FROM PAVEMENT EDGE.
 3. INSTALL ADA SIGN BEHIND JERSEY BARRIER AND DIRECTLY IN FRONT OF EACH ADA SPACE.

- LEGEND:**
- 3" HMA PAVING (ALONG 28th ST: 17,610 SF, NEAR HENDERSON: 26,540 SF), SEE **A** C-23
 - 6" HMA PAVING (15,870 SF), SEE **B** C-23
 - CONC EXTRUDED CURB (833' LF)

MATCH LINE SEE DWG C-21

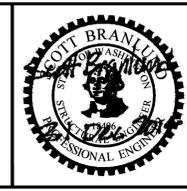
PAVING & STRIPING PLAN
SCALE: 1"=20'-0"



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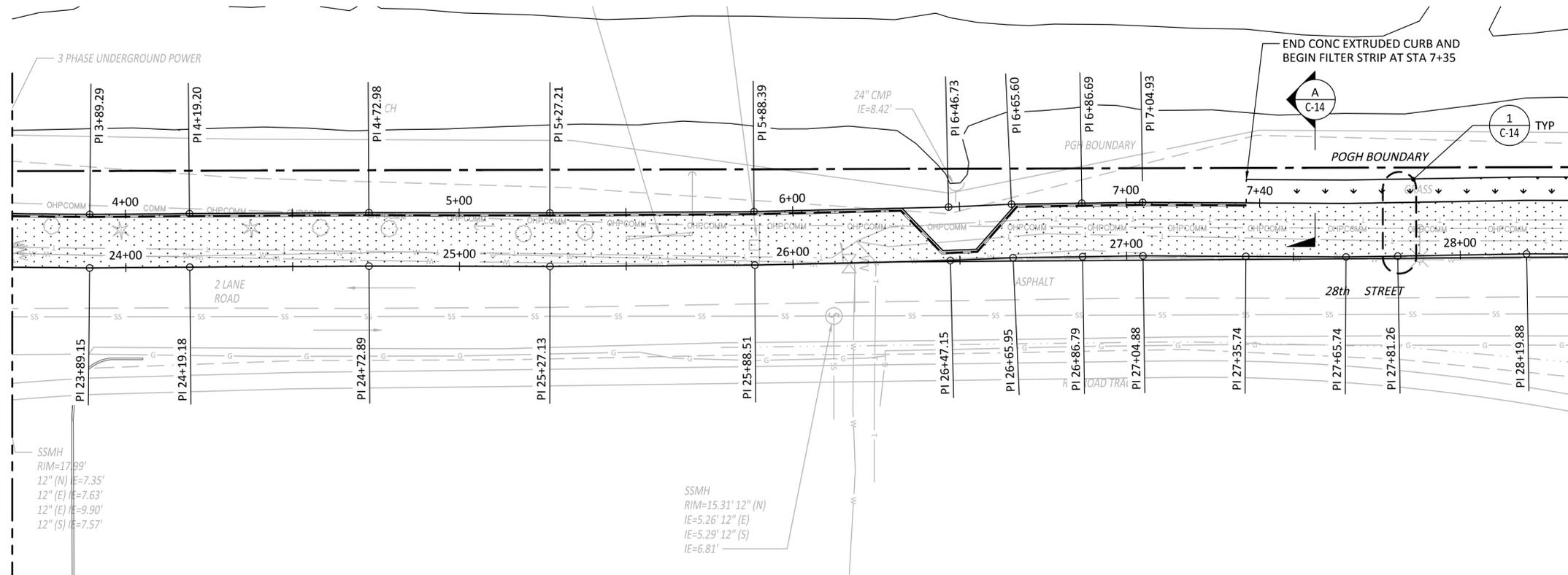
**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**

PAVING & STRIPING PLAN - SHEET 1

DRAWING NO. **C-20**
PROJECT NO. **FAWAT-12-145**
DATE: **10/8/14**
SHEET NO. **27 OF 48**

MATCH LINE SEE DWG C-20

MATCH LINE SEE DWG C-22

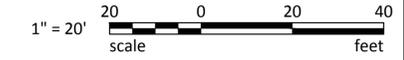


- NOTES:**
1. QUANTITIES IN LEGEND REPRESENT TOTAL PROJECT QUANTITIES.
 2. WHERE CONCRETE CURB IS SHOWN, INSIDE FACE SHALL BE LOCATED 1'-0" FROM PAVEMENT EDGE.

LEGEND:

- 3" HMA PAVING
(ALONG 28th ST: 17,610 SF
NEAR HENDERSON: 26,540 SF), SEE
- FILTER STRIP
- CONC EXTRUDED CURB (833' LF)

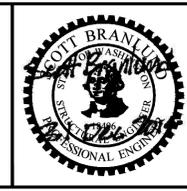
PAVING & STRIPING PLAN
SCALE: 1"=20'-0"



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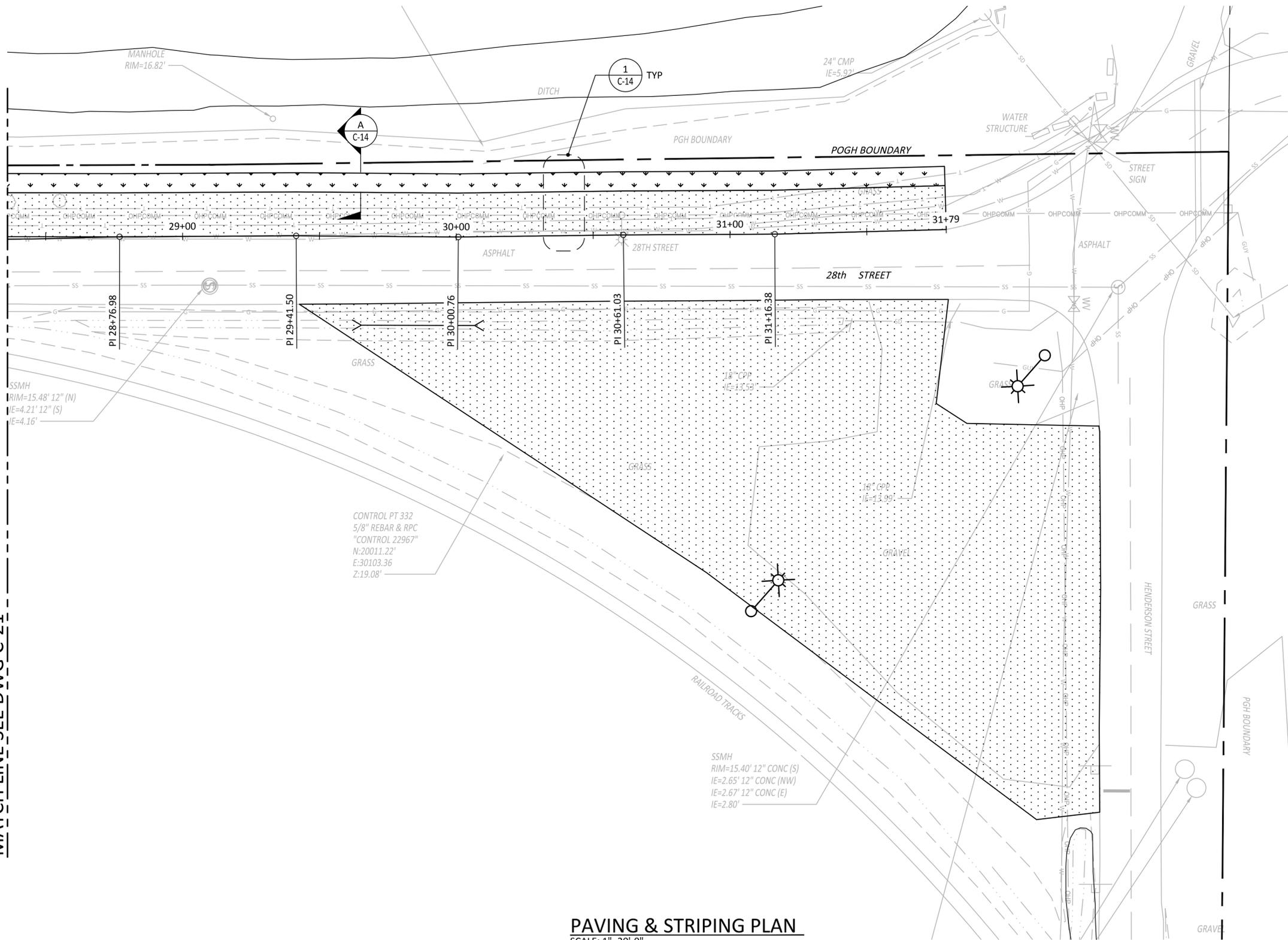
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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**

PAVING & STRIPING PLAN - SHEET 2

DRAWING NO. **C-21**
PROJECT NO. **FAWAT-12-145**
DATE: **10/8/14**
SHEET NO. **28 OF 48**

MATCH LINE SEE DWG C-21



NOTES:

- FOR NOTES AND LEGEND SEE DWG C-20.

LEGEND:

- 3" HMA PAVING
(ALONG 28th ST: 17,610 SF
NEAR HENDERSON: 26,540 SF), SEE
- FILTER STRIP

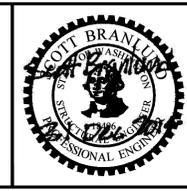
PAVING & STRIPING PLAN
SCALE: 1"=20'-0"



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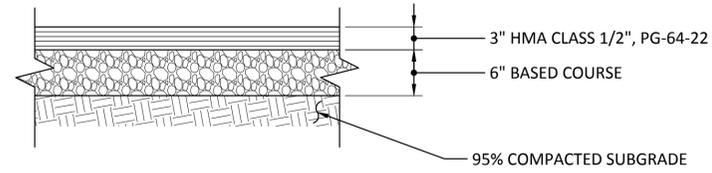


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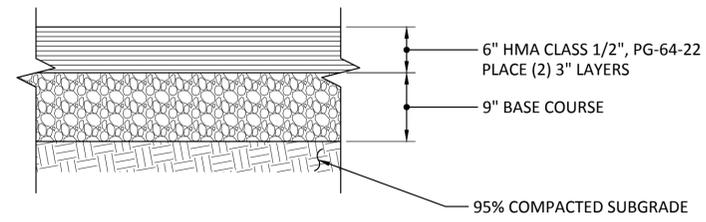
**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**

PAVING & STRIPING PLAN - SHEET 3

DRAWING NO. **C-22**
PROJECT NO. **FAWAT-12-145**
DATE: **10/8/14**
SHEET NO. **29 OF 48**



A SECTION - PAVEMENT FOR PARKING
SCALE: 1"=1'-0" ALONG 28th NEAR HENDERSON STREET



B SECTION - PAVEMENT AT BOAT LAUNCH
SCALE: 1"=1'-0"

BID DOCUMENTS

MARK	REVISION DESCRIPTION	BY	APP.	DATE



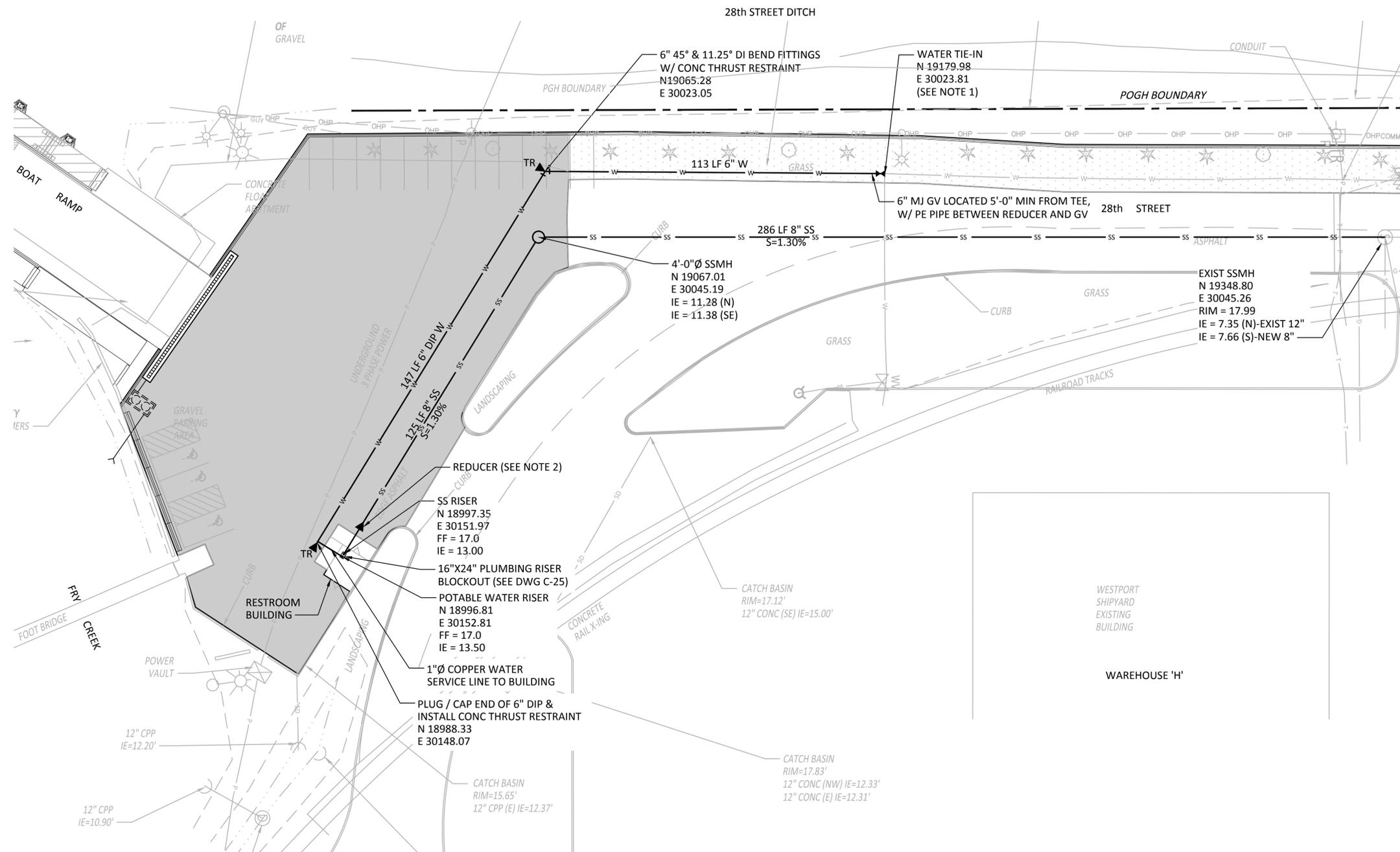
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33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250



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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**
PAVING & STRIPING DETAILS

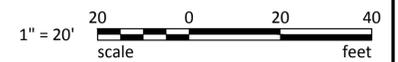
DRAWING NO. **C-23**
PROJECT NO. FAWAT-12-145
DATE: 10/8/14
SHEET NO. 30 OF 48



NOTES:

1. REMOVE EXISTING 90° BEND AND REPLACE WITH 10" TEE. INSTALL 10"x6" REDUCER AND 6" GATE VALVE ON SOUTH SIDE OF TEE. REMOVE EXISTING THRUST RESTRAINT TO FACILITATE CONSTRUCTION AND INSTALL REPLACEMENT THRUST RESTRAINT FOR TEE AND REDUCER.
2. ADD 8"x4" REDUCER TO SANITARY SEWER LINE 8'-0" FROM BLDG. INSTALL STANDARD CLEANOUT ON 8" SIDE OF REDUCER (NOT SHOWN ON PLAN).
3. AT END OF 6" DIP WATER LINE, INSTALL 2" PIPE CONNECTION FOR BLOWOFF ASSEMBLY TO BE LOCATED IN ADJACENT LANDSCAPED AREA. SEE DETAIL 1 ON DRAWING C-26 (NOT SHOWN ON PLAN).
4. ADJACENT TO PIPE CONNECTION FOR BLOWOFF ASSEMBLY, INSTALL DIRECT TAP CORP STOP WITH BALL TYPE BRASS FOR 1" DIA TYPE K COPPER PIPE FOR BUILDING WATER SERVICE. EXTEND 1" TYPE K COPPER LINE TO LOCATION UNDER BUILDING WHERE OPENING IS PROVIDED IN FLOOR FOR PLUMBING CONNECTIONS. CONNECT 1" PIPING WITH REQUIRED FITTINGS TO BUILDING PLUMBING CONNECTIONS. CONTRACTOR SHALL PERFORM REQUIRED PRESSURE TEST AT BUILDING LOCATION TO DETERMINE IF PRESSURE REGULATOR IS REQUIRED ON 1" SERVICE PIPING TO PROTECT BUILDING PLUMBING AND FIXTURES. CONTRACTOR SHALL ASSUME PRESSURE REGULATOR IS REQUIRED AND SHALL INSTALL INSIDE BUILDING. CONTRACTOR SHALL COORDINATE WITH PORT ON REQUIREMENTS FOR WATER METER TO FACILITY.

UTILITY PLAN
SCALE: 1"=20'-0"



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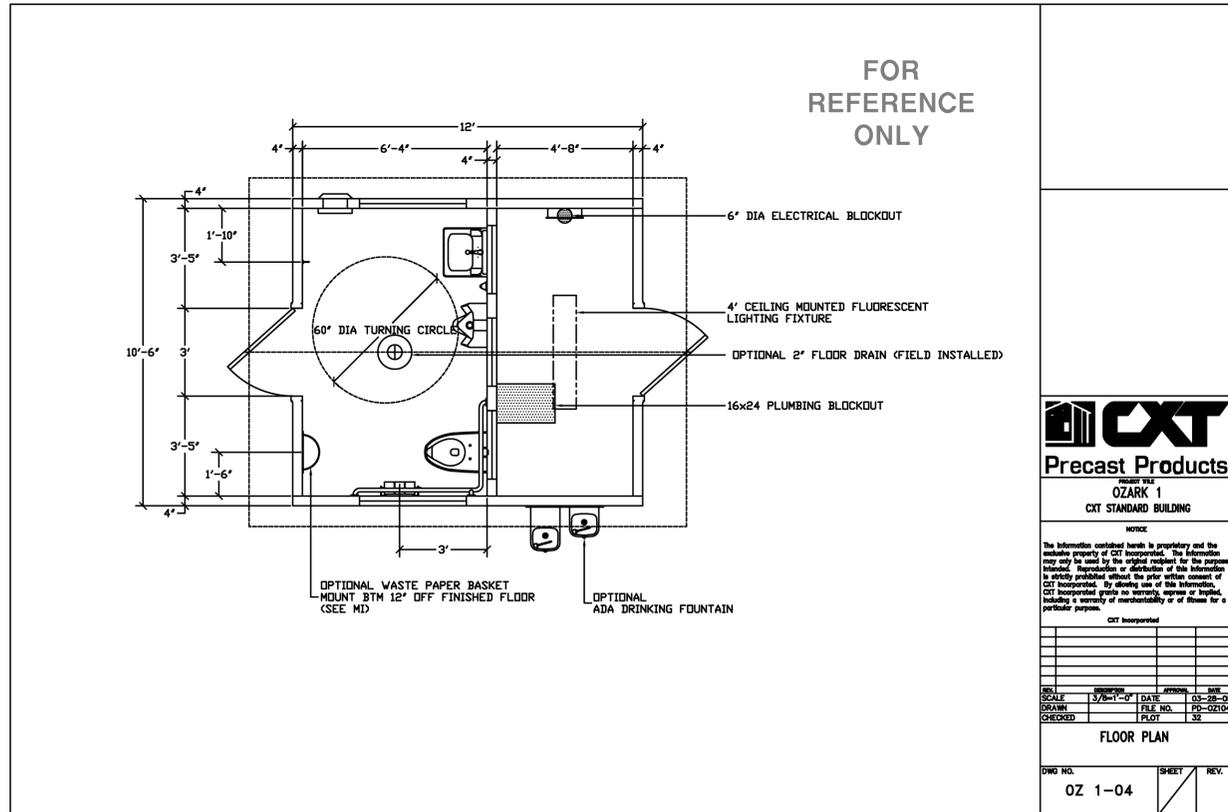
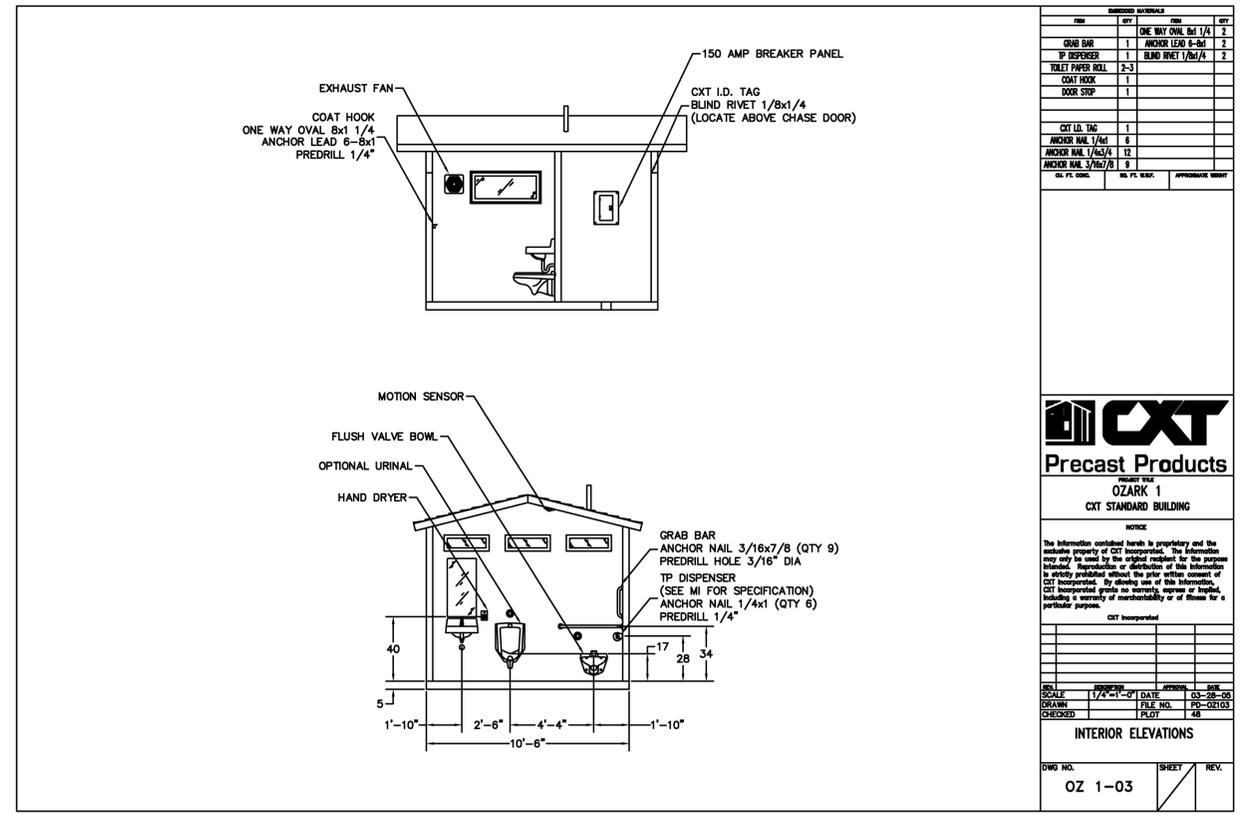
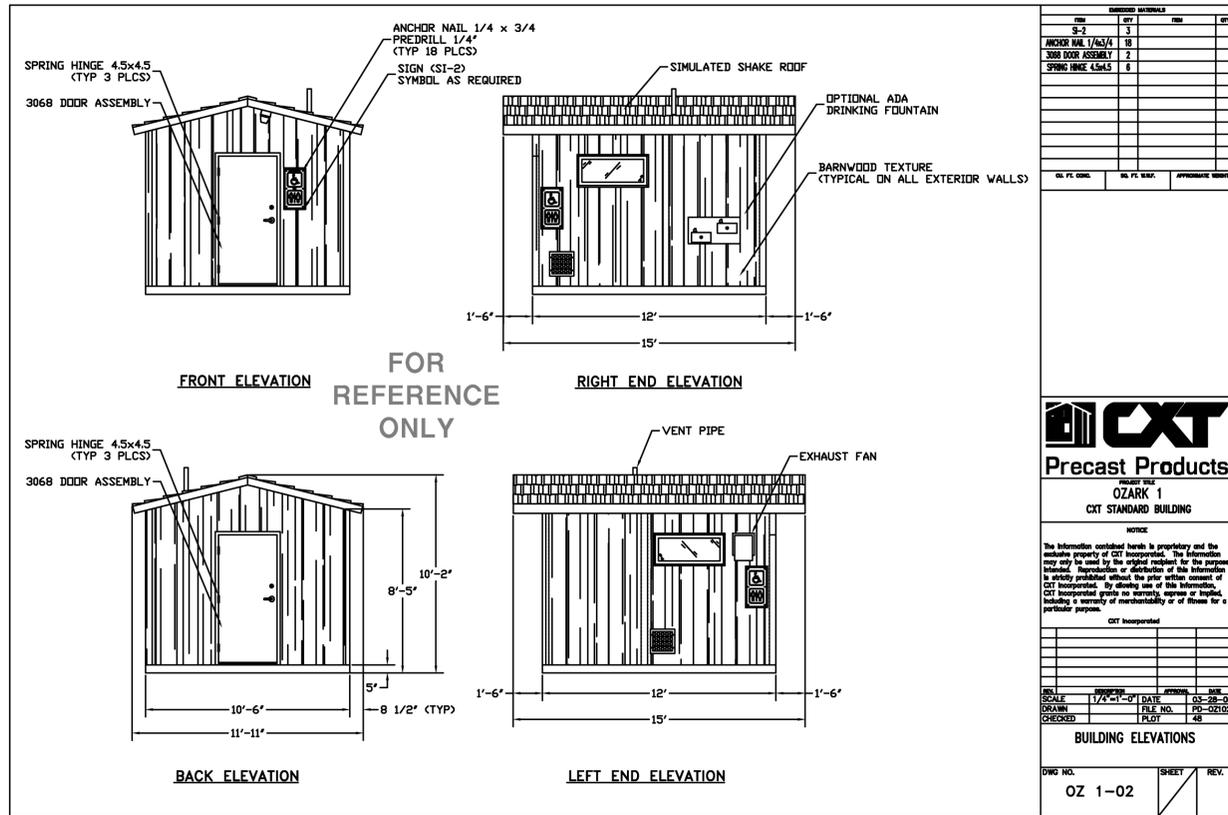


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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**

UTILITY PLAN

DRAWING NO. **C-24**
PROJECT NO. **FAWAT-12-145**
DATE: **10/8/14**
SHEET NO. **31 OF 48**



BID DOCUMENTS

MARK	REVISION DESCRIPTION	BY	APP.	DATE

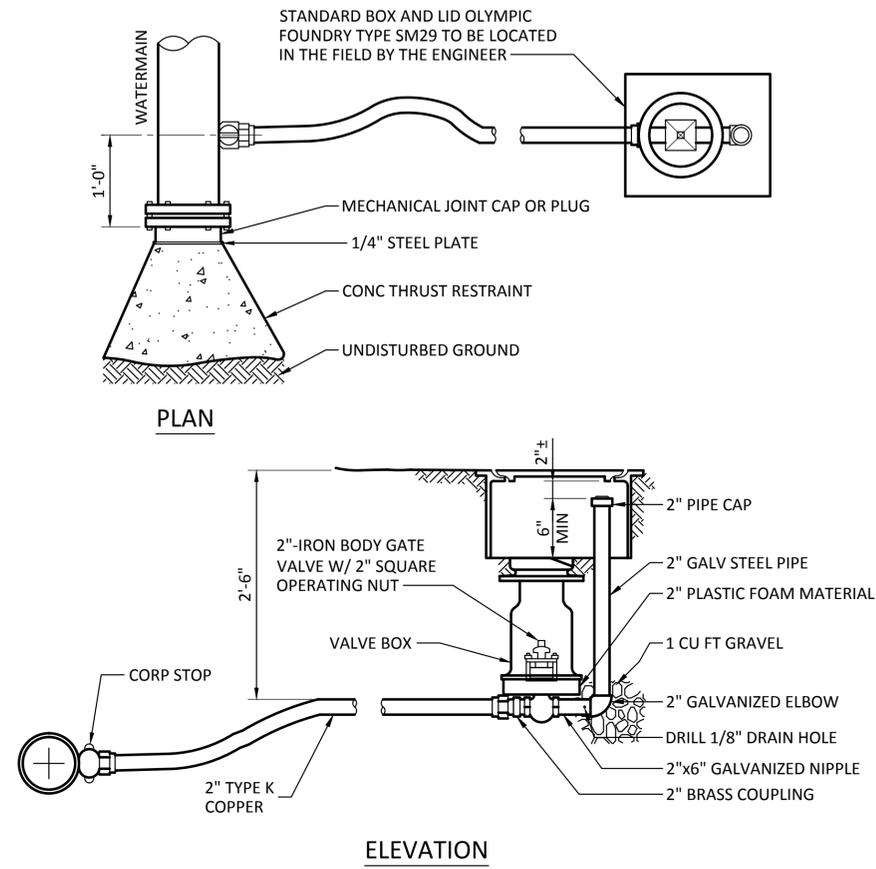
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**PORT OF GRAYS HARBOR
 28TH STREET BOAT LAUNCH IMPROVEMENTS
 CONSTRUCTION PHASE II
 MISCELLANEOUS DETAILS & SECTIONS - SHEET 1
 RESTROOM BUILDING**

DRAWING NO. **C-25**
 PROJECT NO. FAWAT-12-145
 DATE: 10/8/14
 SHEET NO. 32 OF 48

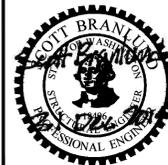


1 **DETAIL - BLOWOFF ASSEMBLY**
SCALE: 1"=1'-0"

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**PORT OF GRAYS HARBOR
28TH STREET BOAT LAUNCH IMPROVEMENTS
CONSTRUCTION PHASE II**
MISCELLANEOUS DETAILS & SECTIONS - SHEET 2
UTILITY DETAILS

DRAWING NO. **C-26**
PROJECT NO. FAWAT-12-145
DATE: 10/8/14
SHEET NO. 33 OF 48