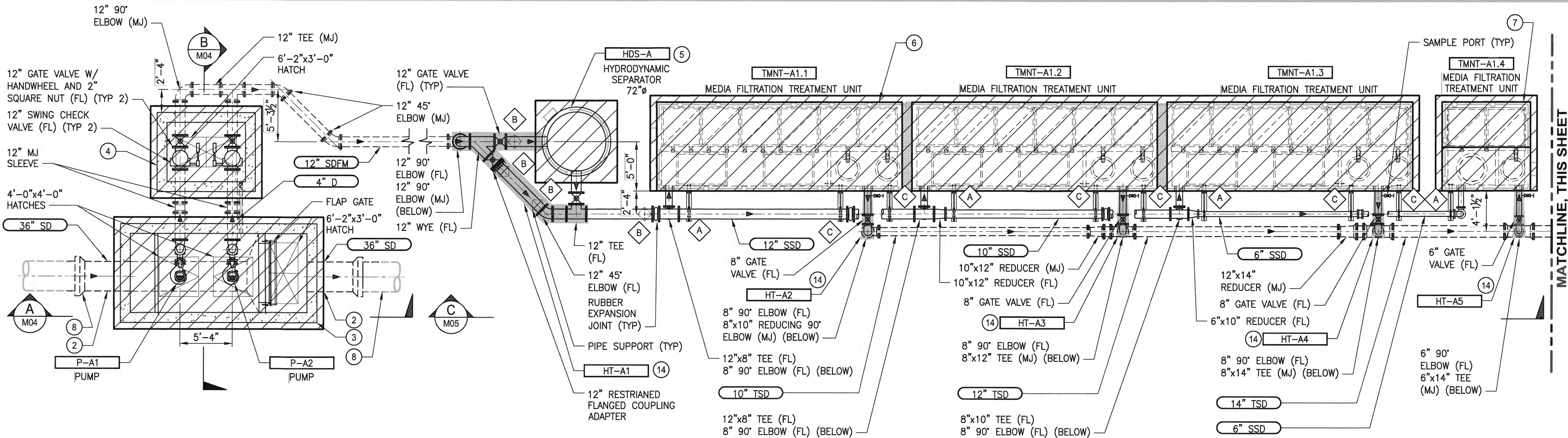




- NOTES:**
- CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION
 - INSTALL 36" RCP PIPE, AS REQUIRED, CONNECT TO OWNER-SUPPLIED PRE-CAST WETWELL.
 - INSTALL MIN 8'-0"x18'-0" (INTERIOR DIMENSIONS) OWNER-SUPPLIED PRE-CAST CONCRETE WETWELL AND DUPLEX PUMP STATION, SLOPE WETWELL BOTTOM PER PUMP MANUFACTURER'S RECOMMENDATION. PLAIN-END PIPE STUB OUTS PROVIDED BY OWNER. CONTRACTOR TO FURNISH AND INSTALL CONNECTION TO PLAIN-END PIPE STUBS.
 - INSTALL MIN 6'-0"x8'-0" (INTERIOR DIMENSIONS) OWNER-SUPPLIED PRE-CAST VALVE VAULT. PLAIN-END PIPE STUB OUTS PROVIDED BY OWNER. CONTRACTOR TO FURNISH AND INSTALL CONNECTION TO PLAIN-END PIPE STUBS.
 - INSTALL OWNER-SUPPLIED HYDRODYNAMIC SEPARATOR WITH BYPASS PIPING. SEE STRUCTURAL SHEETS FOR LADDER, AND HANDRAIL DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR.
 - INSTALL 8'x24' OWNER-SUPPLIED MEDIA FILTRATION TREATMENT UNIT, TYP OF 6. SEE MECHANICAL SHEETS FOR SUBGRADE PREPARATION. SEE STRUCTURAL SHEETS FOR FOUNDATION DESIGN, LADDER, HANDRAIL, AND CHECK PLATE DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR, SEE TREATMENT UNIT NOTES THIS SHEET.
 - INSTALL 8'x8' OWNER-SUPPLIED MEDIA FILTRATION TREATMENT UNIT, TYP OF 2. SEE MECHANICAL SHEETS FOR SUBGRADE PREPARATION. SEE STRUCTURAL SHEETS FOR FOUNDATION DESIGN, LADDER, HANDRAIL, AND CHECK PLATE DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR, SEE TREATMENT UNIT NOTES THIS SHEET.
 - CONNECT 36" TSD RCP TO EXISTING 36" RCP.
 - NOT ALL PIPE SUPPORTS SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY. SEE LETTER ADJACENT TO SUPPORT FOR TYPE AS DETAILED ON SHEET S10, DETAIL 5.
 - ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
 - ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS.
 - ALL HATCHES FOR BASIN A MUST BE AIRPORT RATED FOR THE LOADING DETAILED WITHIN THE SPECIFICATIONS. ALL HATCH DIMENSIONS SHOWN OR CALLED OUT ARE DIMENSIONS FOR MINIMUM CLEAR OPENINGS. HATCHES ARE OWNER-SUPPLIED.
 - ALL BURIED VALVES SHALL BE PROVIDED WITH VALVE STEM EXTENSIONS, CASING TUBES, AND 2" SQUARE NUT WITH POSITION INDICATOR. SEE DETAIL 1, SHEET M10.
 - FIVE AREAS TO RECEIVE HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION AND SCOPE DELINEATION.

TREATMENT UNIT NOTES:

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE TREATMENT UNITS AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS.
- UNIT MUST BE INSTALLED ON LEVEL BASE.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. PIPE PENETRATIONS ARE OWNER-SUPPLIED.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR RESPONSIBLE FOR CONTACTING MEDIA FILTRATION SUPPLIER FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

LEGEND:

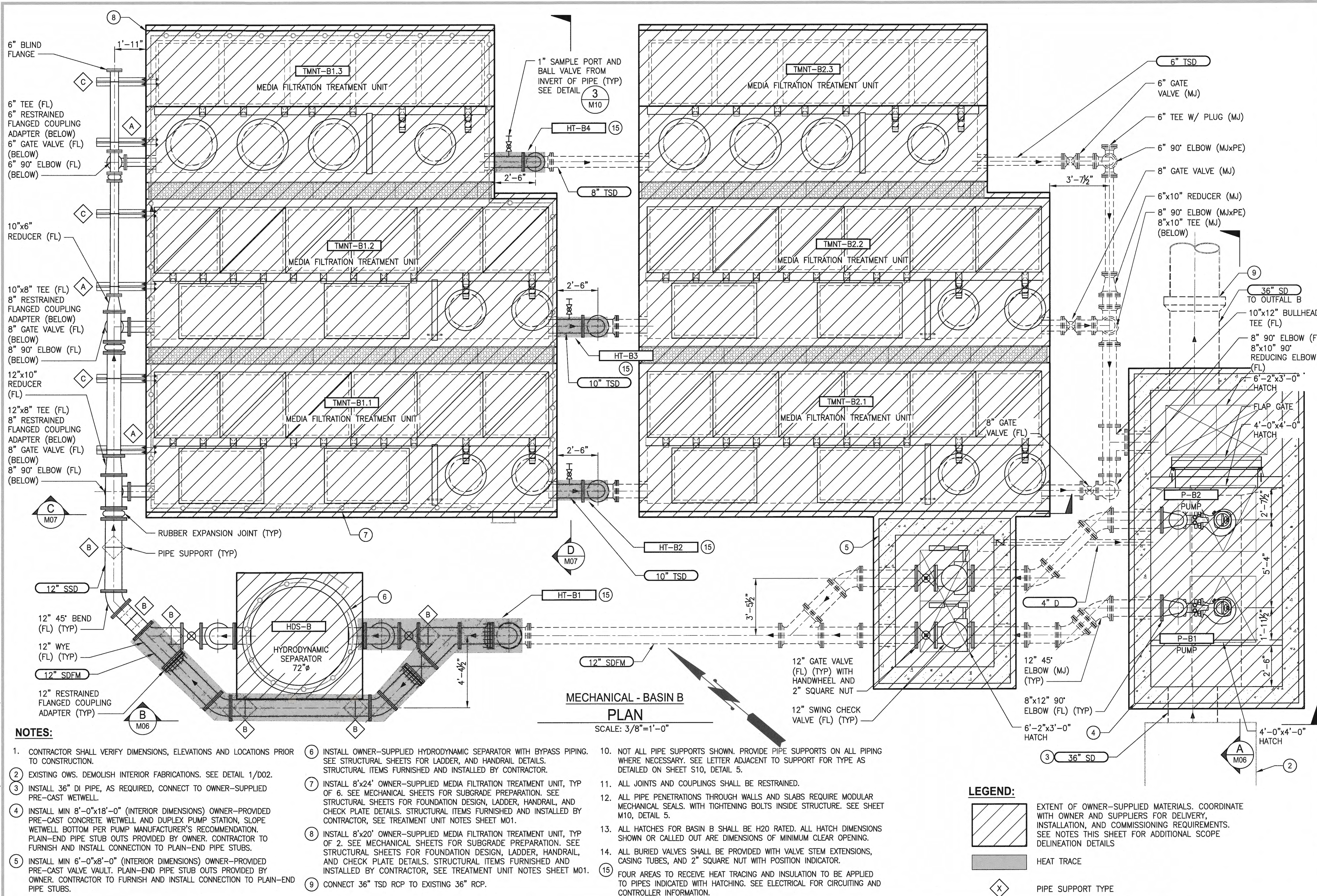
- EXTENT OF OWNER-SUPPLIED MATERIALS. COORDINATE WITH OWNER AND SUPPLIERS FOR DELIVERY, INSTALLATION, AND COMMISSIONING REQUIREMENTS. SEE NOTES THIS SHEET FOR ADDITIONAL SCOPE DELINEATION DETAILS
- HEAT TRACE
- PIPE SUPPORT TYPE

MATCHLINE, THIS SHEET

6583 M01 SH 28 OF 47	WEST SITCUM STORMWATER TREATMENT MECHANICAL PLAN - BASIN A		APPROVED: JSL APR 18 2018 CHECKED BY: DATE		PARAMETRIX ENGINEERING PLANNING ENVIRONMENTAL SCIENCES 50 WASHINGTON AVENUE, SUITE 350 SEASIDE, WA 98137 P 360.377.0014 WWW.PARAMETRIX.COM		 P.O. BOX 1837 TACOMA, WA 98401	
	CONTR/CONS: 070664	TOWNSHIP: 21N	RANGE: 3E	SECTIONS: 33 & 34	DIRECTOR ENG. DATE: 4/26/18	DATE: APR 25, 2018	BY: APRR:	DATE:
M. ID: 201024.01	DAT-HRZ: WAB3-S	VERT: MLLW	PARCEL: SEE G02	PRINTED BY: peterden Apr 25, 2018	PORT ADDRESS: ONE SITCUM PLAZA	MARK: REVISION:	DATE:	
PHASE: BID SET	DRAWING SCALE: AS NOTED			TACOMA, WA 98401-1837				

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PORT OF TACOMA FILE: U:\PSO\Projects\Clients\8001-NW Seaport Alliance\553-8001-001 West Sitcum\995\svcs\CADD\DWG\PS8001001M-02



Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (206)383-5841

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CITY OF TACOMA
OFFICIAL SEAL
JANUARY 18TH 1890
INCORPORATED
REGISTERED
PLATINUM

APPROVED: *Janet VanDerburg*
DIRECTOR
14 Feb 18

CHECKED BY: JSL
DATE: APR 18 2018

DATE: APR 25, 2018

6583

M02

SH 29 OF 47

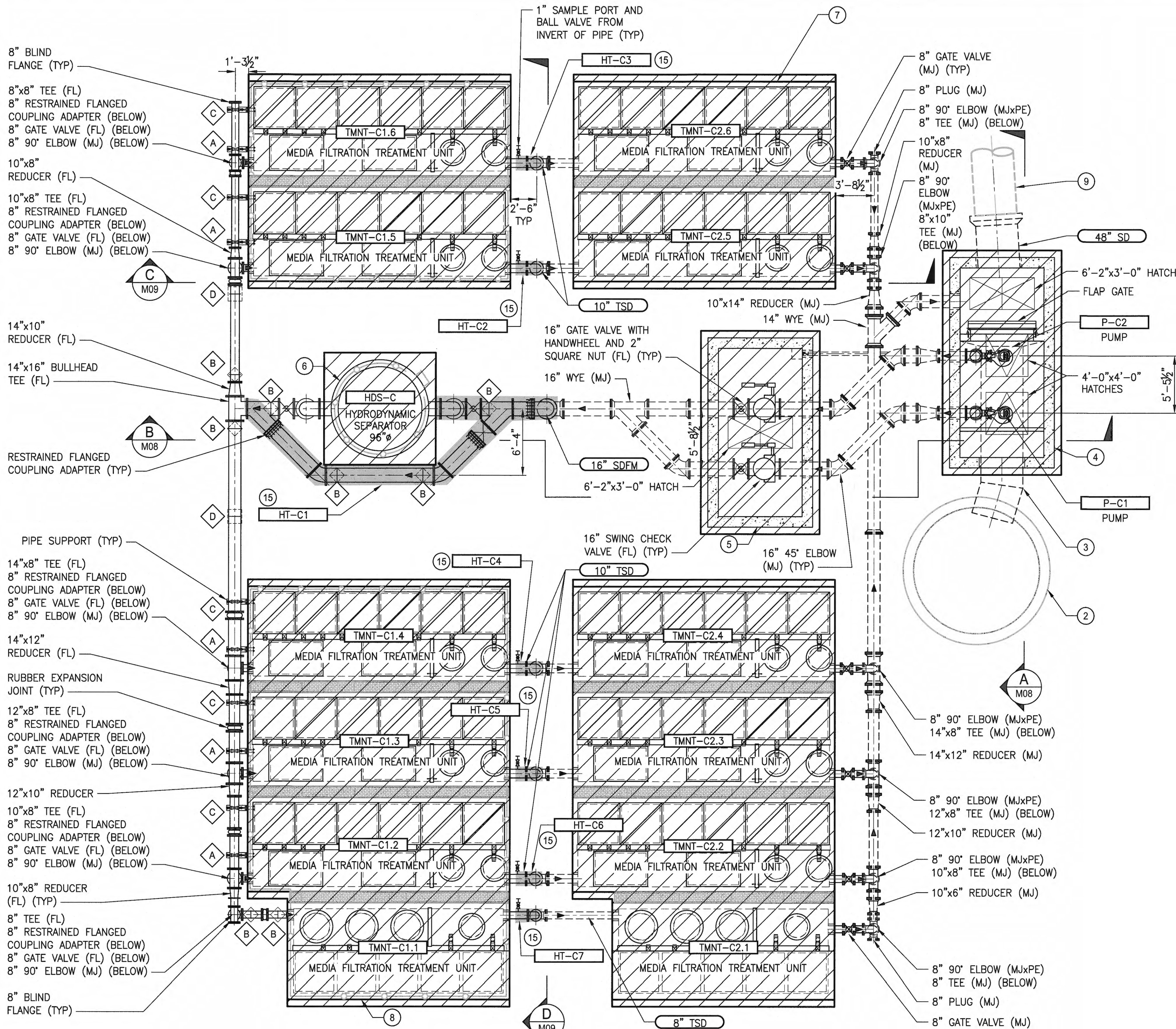
WEST SITCUM
STORMWATER TREATMENT
MECHANICAL PLAN - BASIN B

CONTRACTOR: 070664
M. ID: 201024.01
PHASE: BID SET

TOWNSHIP: 21N
RANGE: 3E
SECTION: 33 & 34
DATE-HRZ: WA83-S
VERT: MLLW
DRAWING SCALE: AS NOTED

PRINTED BY: peterden
DATE: APR 25, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

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MECHANICAL - BASIN C
PLAN
SCALE: 3/16"=1'-0"

NOTES:

- CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION
- EXISTING OWS. DEMOLISH INTERIOR FABRICATIONS. SEE DETAIL 2/D02.
- INSTALL 48" HDPE FABRICATED PIPE, AS REQUIRED, CONNECT TO OWNER-PROVIDED PRE-CAST WETWELL.
- INSTALL MIN 8'-0"x18'-0" (INTERIOR DIMENSIONS) OWNER-PROVIDED PRE-CAST CONCRETE WETWELL AND DUPLEX PUMP STATION, SLOPE WETWELL BOTTOM PER PUMP MANUFACTURER'S RECOMMENDATION. PLAIN-END PIPE STUB OUTS PROVIDED BY OWNER. CONTRACTOR TO FURNISH AND INSTALL CONNECTION TO PLAIN-END PIPE STUBS.
- INSTALL MIN 8'-0"x16'-0" (INTERIOR DIMENSIONS) OWNER-PROVIDED PRE-CAST VALVE VAULT. PLAIN-END PIPE STUB OUTS PROVIDED BY OWNER. CONTRACTOR TO FURNISH AND INSTALL CONNECTION TO PLAIN-END PIPE STUBS.
- INSTALL OWNER-SUPPLIED HYDRODYNAMIC SEPARATOR WITH BYPASS PIPING. SEE STRUCTURAL SHEETS FOR LADDER, AND HANDRAIL DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR.
- INSTALL 8'x24' MEDIA FILTRATION TREATMENT UNIT, TYP OF 10. SEE MECHANICAL SHEETS FOR SUBGRADE PREPARATION. SEE STRUCTURAL SHEETS FOR FOUNDATION DESIGN, LADDER, HANDRAIL, AND CHECK PLATE DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR, SEE TREATMENT UNIT NOTES THIS SHEET.
- INSTALL 8'x20' OWNER-SUPPLIED MEDIA FILTRATION TREATMENT UNIT, TYP OF 2. SEE MECHANICAL SHEETS FOR SUBGRADE PREPARATION. SEE STRUCTURAL SHEETS FOR FOUNDATION DESIGN, LADDER, HANDRAIL, AND CHECK PLATE DETAILS. STRUCTURAL ITEMS FURNISHED AND INSTALLED BY CONTRACTOR, SEE TREATMENT UNIT NOTES THIS SHEET.
- CONNECT 48" SD RCP TO EXISTING 48" RCP.
- NOT ALL PIPE SUPPORTS SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY. SEE LETTER ADJACENT TO SUPPORT FOR TYPE AS DETAILED ON SHEE S10, DETAIL 5.
- ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
- ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
- ALL HATCHES FOR BASIN C MUST BE AIRPORT RATED FOR THE LOADING DETAILED WITHIN THE SPECIFICATIONS. ALL HATCH DIMENSIONS SHOWN OR CALLED OUT ARE DIMENSIONS FOR MINIMUM CLEAR OPENINGS.
- ALL BURIED VALVES SHALL BE PROVIDED WITH VALVE STEM EXTENSIONS, CASING TUBES, VALVE BOXES, AND 2" SQUARE NUT WITH POSITION INDICATOR. SEE DETAIL 1, SHEET M10.
- SEVEN AREAS TO RECEIVE HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED BY HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION AND SCOPE DELINEATION.

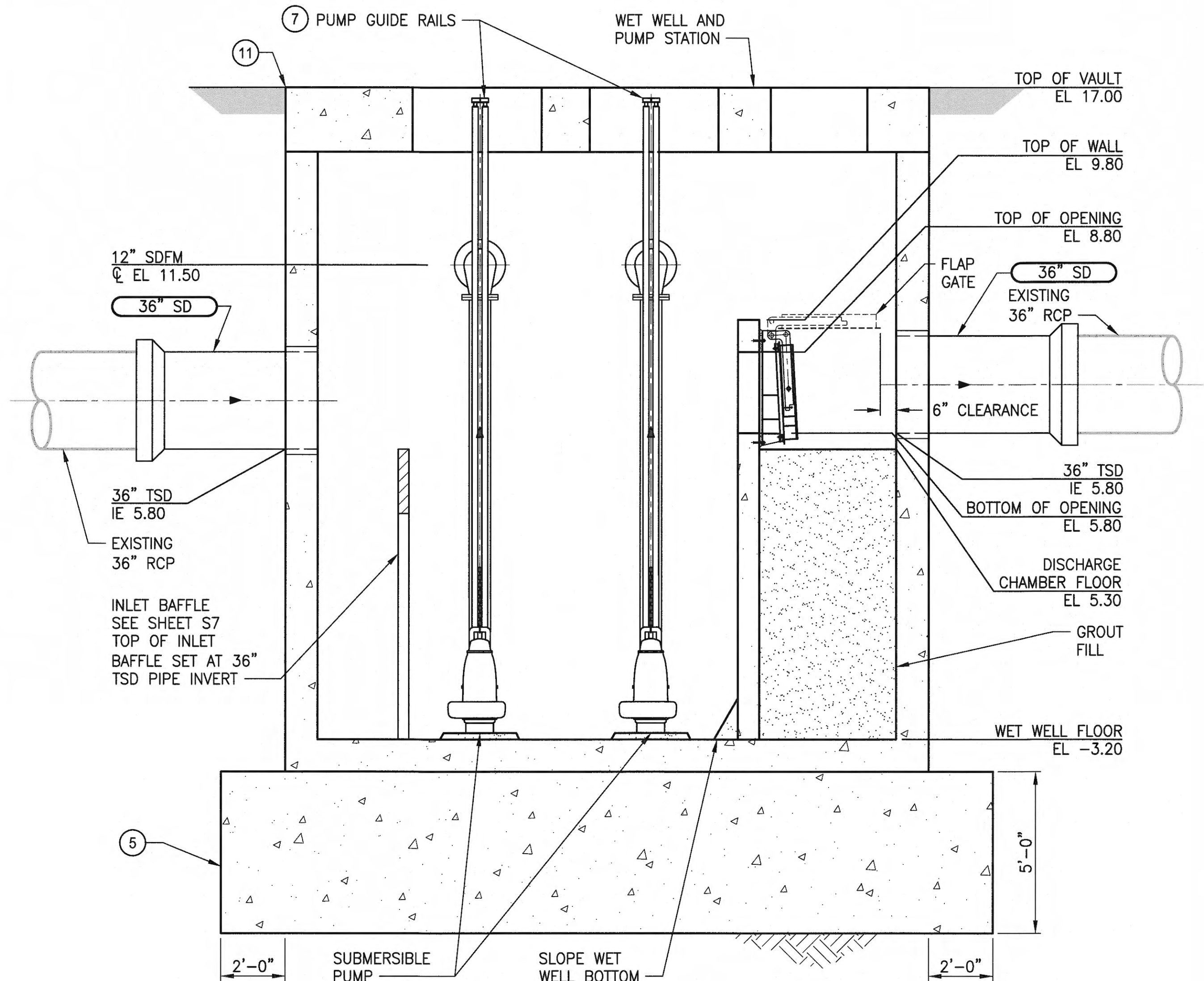
TREATMENT UNIT NOTES:

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE TREATMENT UNITS AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS.
- UNIT MUST BE INSTALLED ON LEVEL BASE.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. PIPE PENETRATIONS ARE OWNER-SUPPLIED.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

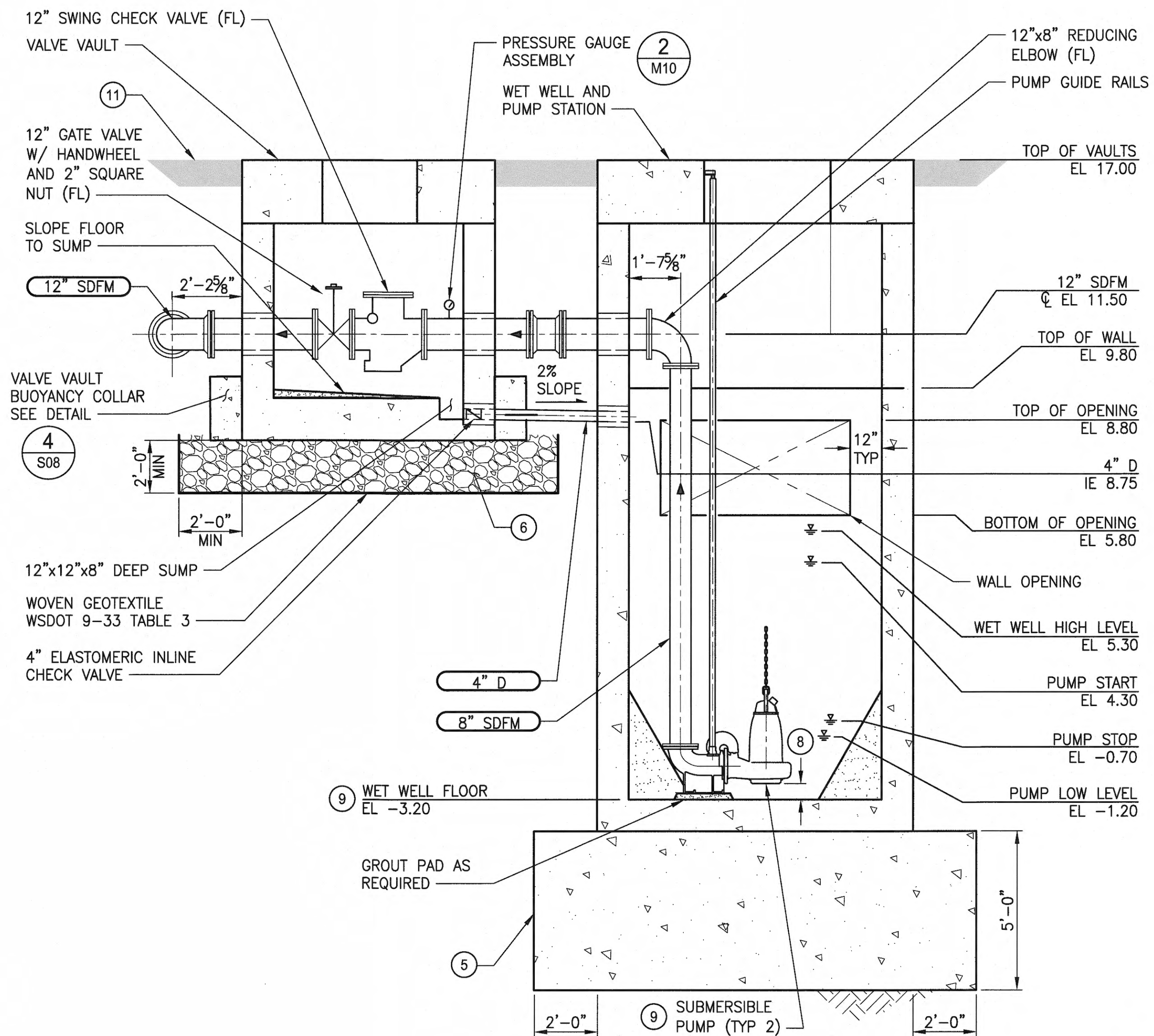
LEGEND:

- EXTENT OF OWNER-SUPPLIED MATERIALS. COORDINATE WITH OWNER AND SUPPLIERS FOR DELIVERY, INSTALLATION, AND COMMISSIONING REQUIREMENTS. SEE NOTES THIS SHEET FOR ADDITIONAL SCOPE DELINEATION DETAILS
- HEAT TRACE
- PIPE SUPPORT TYPE

6583 M03 SH 30 OF 47	WEST SITCUM STORMWATER TREATMENT MECHANICAL PLAN - BASIN C		APPROVED: <i>James Van der Beek</i> 4/26/18		JSL APR 2018 CHECKED BY DATE	 Port of Tacoma P.O. BOX 187 TACOMA, WA 98401 (206) 388-5841		
	CONTRACTOR: 070864 M. ID: 201024.01 PHASE: BID SET	TOWNSHIP: 21N DAT-HRZ: WA83-S PARCEL: SEE G02	RANGE: 3E SECTIONS: 33 & 34 VERT: MLLW	DIRECTOR: peter den 4/26/18 PRINTED BY: peter den APR 25, 2018 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	PROJ. ENGR. DATE JEM APR 2018	DATE	BY:	APPR:



A
M01
SECTION
SCALE: 3/8"=1'-0"



B
M01
SECTION
SCALE: 3/8"=1'-0"

NOTES:

1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. PIPE SUPPORTS NOT SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY.
3. ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
4. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
5. TREMIE MUD SLAB, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS. SEE STRUCTURAL SHEETS FOR DETAILS.
6. CSBC, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
7. INSTALL HARD RUBBER MOUNTS BETWEEN SST GUIDE RAILS AND CONCRETE.
8. BASIS OF DESIGN PUMP REQUIRES A CLEARANCE OF 9 7/8" BETWEEN THE WET WELL FLOOR AND THE PUMP INTAKE. FOR EACH INCH OR FRACTION OF AN INCH OF ADDITIONAL CLEARANCE REQUIRED BY THE PROVIDED PUMP. THE PUMP STATION SYSTEM SUPPLIER SHALL INCREASE THE DEPTH OF THE WET WELL BY AN INCH.
9. BASIS OF DESIGN PUMP REQUIRES A MINIMUM SUBMERGED LEVEL OF 24" TO AVOID DAMAGE TO THE PUMP. FOR EACH INCH OR FRACTION OF AN INCH OF ADDITIONAL SUBMERGENCE REQUIRED BY THE PROVIDED PUMP THE PUMP STATION SYSTEM SUPPLIER SHALL INCREASE THE DEPTH OF THE WET WELL BY AN INCH.
10. SEE SHEET M01 FOR OWNER INSTALLED MATERIAL.
11. INSTALL COLLAR, SEE SHEET C06, DETAIL 2.



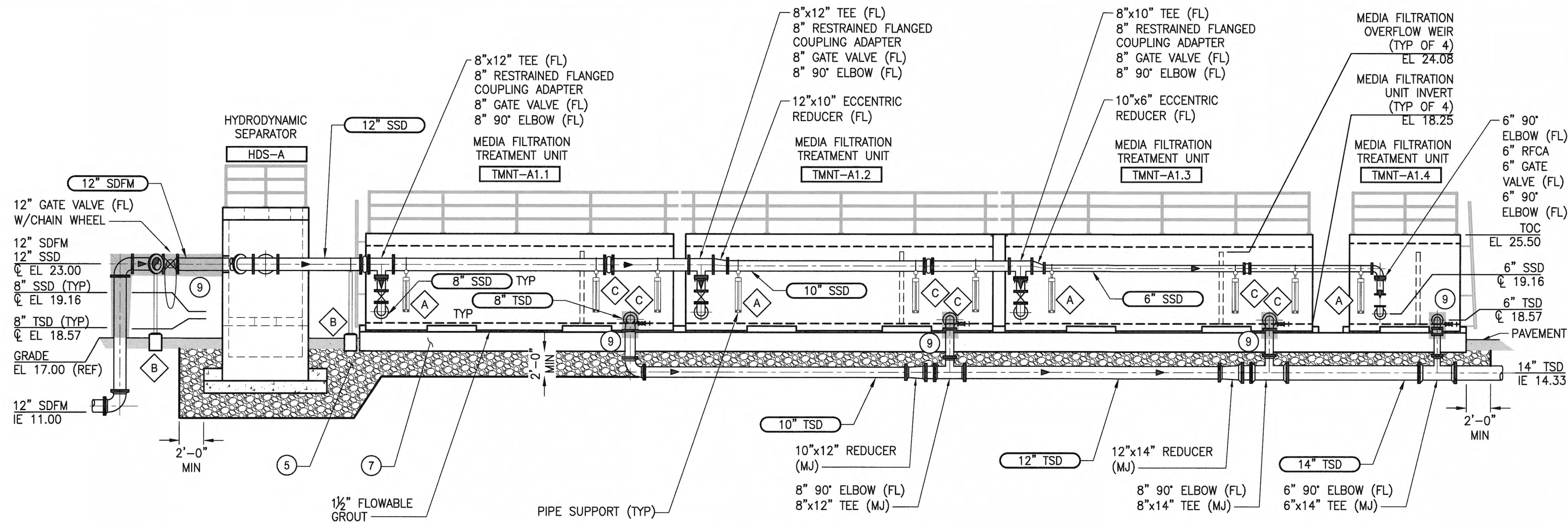
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JSL APR 2018
CHECKED BY DATE
JEM APR 2018
PROJ. ENGR DATE
DIRECTOR ENG. DATE
PRINTED BY: peterden Apr 25, 2018
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

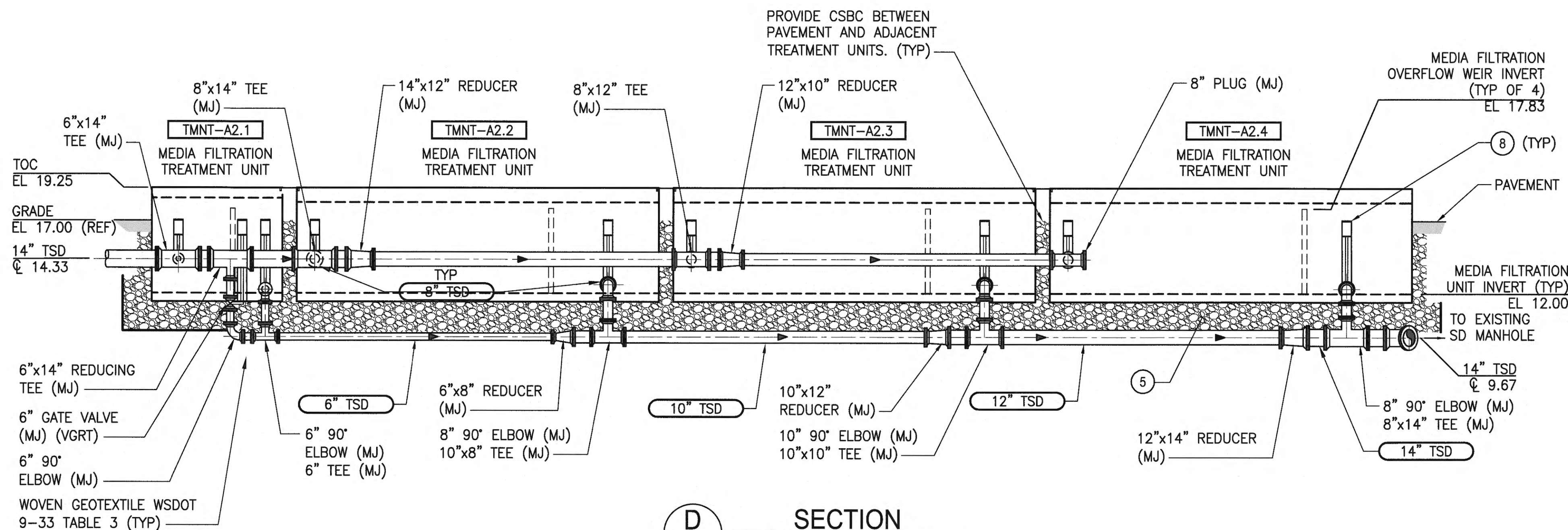
**WEST SITCUM
STORMWATER TREATMENT
MECHANICAL SECTION - BASIN A**

TOWNSHIP: 21N RANGE: 3E SECTIONS: 33 & 34
DATE: 201024.01 DAT-HRZ: WA83-S
PARCEL: SEE G02
VERT: MLLW
DRAWING SCALE: AS NOTED

**6583
M04**
SH 31 OF 47
CONT/CONS: 070664
M. ID: 201024.01
PHASE: BID SET



C
SECTION
SCALE: 3/16"=1'-0"



D
SECTION
SCALE: 3/16"=1'-0"

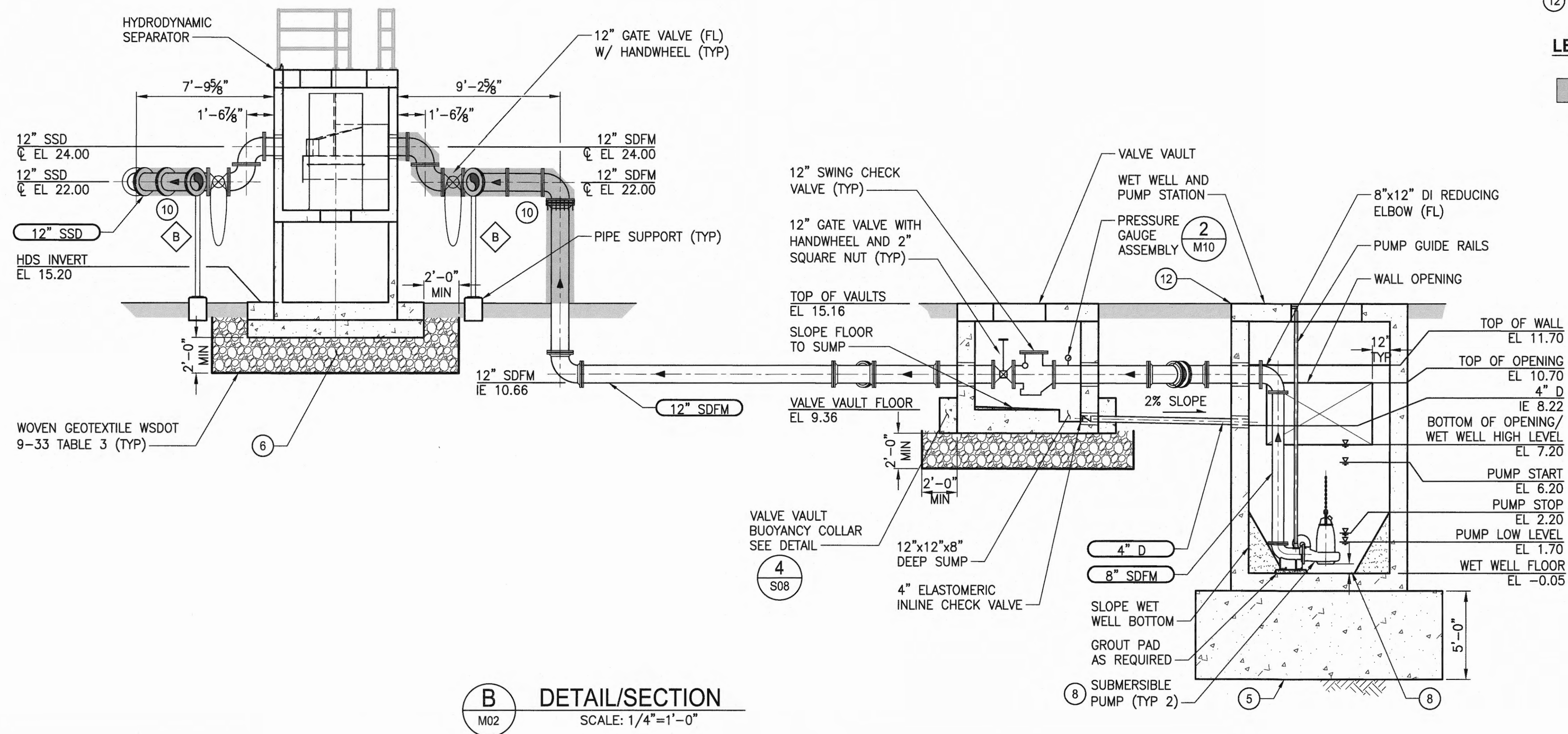
NOTES:

1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. PIPE SUPPORTS NOT SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY. SEE LETTER ADJACENT TO SUPPORT FOR TYPE AS DETAILED ON SHEET S10, DETAIL 5.
3. ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
4. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
5. CSBC, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
6. SEE SHEET M01 FOR OWNER SUPPLIED MATERIAL.
7. CAST-IN-PLACE CONCRETE PAD TO 1'-0" BELOW GRADE. SEE STRUCTURAL FOR PAD DETAILS.
8. ALL BURIED VALVES SHALL BE PROVIDED WITH VALVE STEM EXTENSIONS CASING TUBES, VALVE BOXES, AND 2" SQUARE NUT WITH POSITION INDICATOR. SEE DETAIL 1, SHEET M10.
9. HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION.

LEGEND:

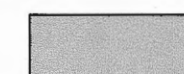
- HEAT TRACE
- PIPE SUPPORT TYPE

6583 M05 SH 32 OF 47 CONT/CONS: 070664 M. ID: 201024.01 PHASE: BID SET	WEST SITCUM STORMWATER TREATMENT MECHANICAL SECTION - BASIN A				JSL APR 2018 CHECKED BY: <i>[Signature]</i> JEM APR 2018 PROJ. ENGR. DATE: <i>4/26/18</i> DIRECTOR: <i>[Signature]</i> PRINTED BY: peterden PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: <i>[Signature]</i> DATE: APR 25, 2018
	TOWNSHIP: 21N	RANGE: 3E	SECTIONS: 33 & 34	VERT: MLLW	PARCEL: SEE G02	DRAWING SCALE: AS NOTED
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1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. NOT ALL PIPE SUPPORTS SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY. SEE LETTER ADJACENT TO SUPPORT FOR TYPE AS DETAILED ON SHEET S10, DETAIL 5.
3. ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
4. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
5. MUD SLAB, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS. SEE STRUCTURAL SHEETS.
6. CSBC, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
7. BASIS OF DESIGN PUMP REQUIRES A CLEARANCE OF 9 7/8" BETWEEN THE WET WELL FLOOR AND THE PUMP INTAKE. FOR EACH INCH OR FRACTION OF AN INCH OF ADDITIONAL CLEARANCE REQUIRED BY THE PROVIDED PUMP. THE PUMP STATION SYSTEM SUPPLIER SHALL INCREASE THE DEPTH OF THE WET WELL BY AN INCH.
8. BASIS OF DESIGN PUMP REQUIRES A MINIMUM SUBMERGED LEVEL OF 24" TO AVOID DAMAGE TO THE PUMP. FOR EACH INCH OR FRACTION OF AN INCH OF ADDITIONAL SUBMERGENCE REQUIRED BY THE PROVIDED PUMP THE PUMP STATION SYSTEM SUPPLIER SHALL INCREASE THE DEPTH OF THE WET WELL BY AN INCH.
9. INSTALL HARD RUBBER MOUNTS BETWEEN SST GUIDE RAILS AND CONCRETE.
10. HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION. SEE SHEET M02 FOR OWNER SUPPLIED MATERIAL.
11. SEE SHEET M02 FOR OWNER SUPPLIED MATERIAL.
12. INSTALL COLLAR. SEE SHEET C06, DETAIL 2.

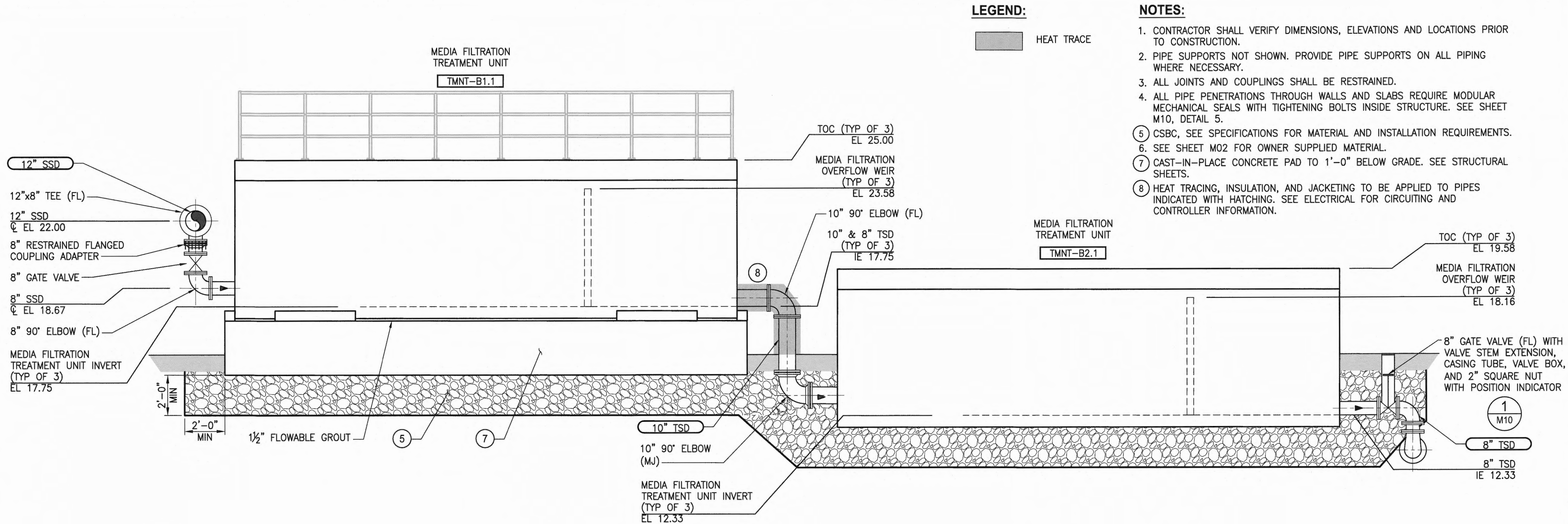
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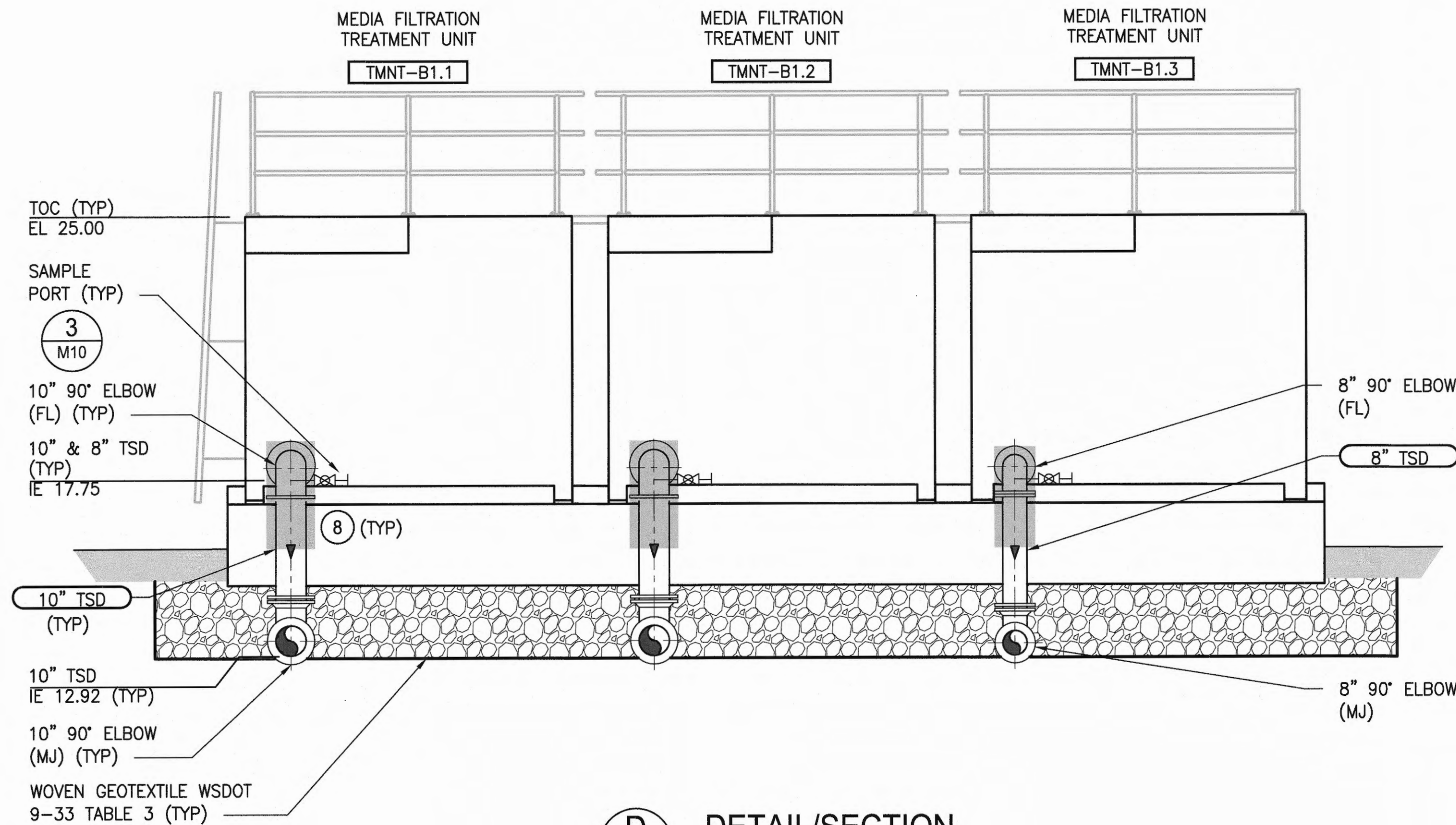
HEAT TRACE



PIPE SUPPORT TYPE



C
M02
DETAIL/SECTION
SCALE: 3/8"=1'-0"



D
M02
DETAIL/SECTION
SCALE: 3/8"=1'-0"

LEGEND:

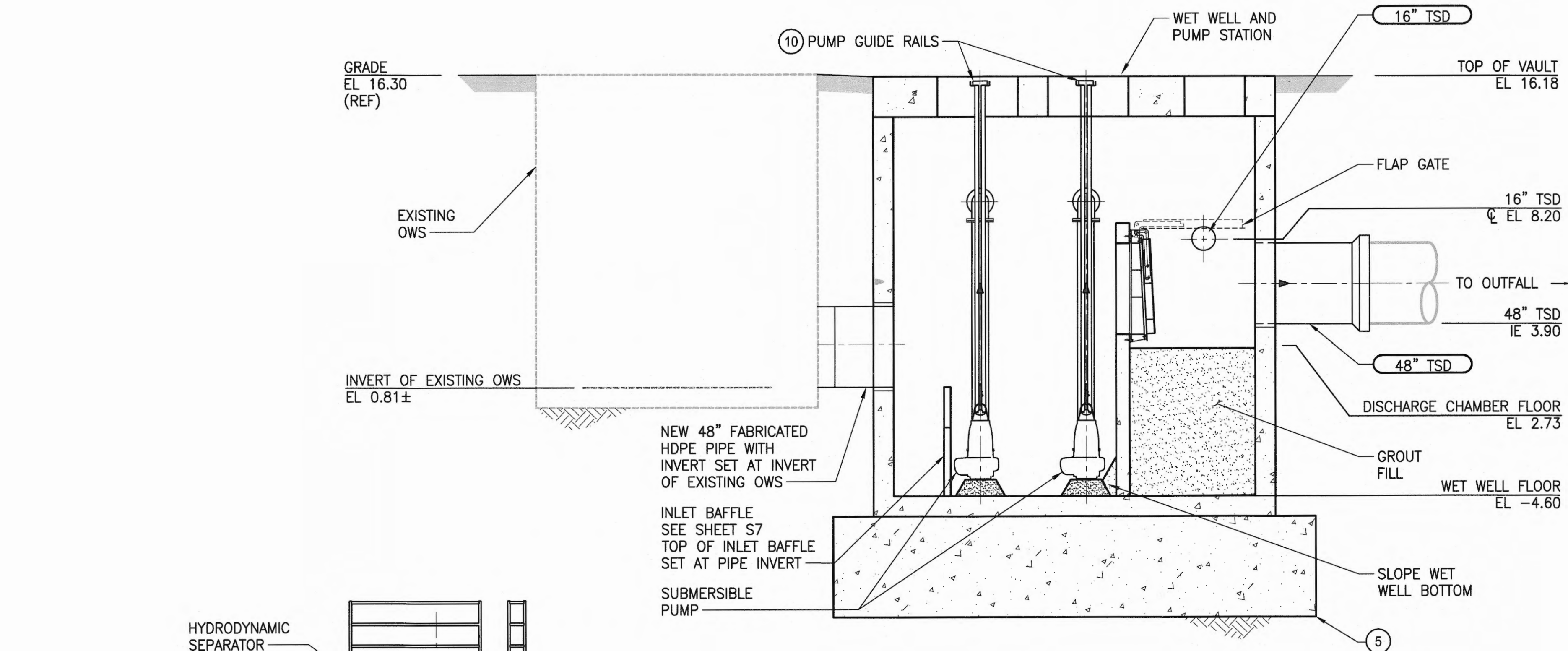
HEAT TRACE

NOTES:

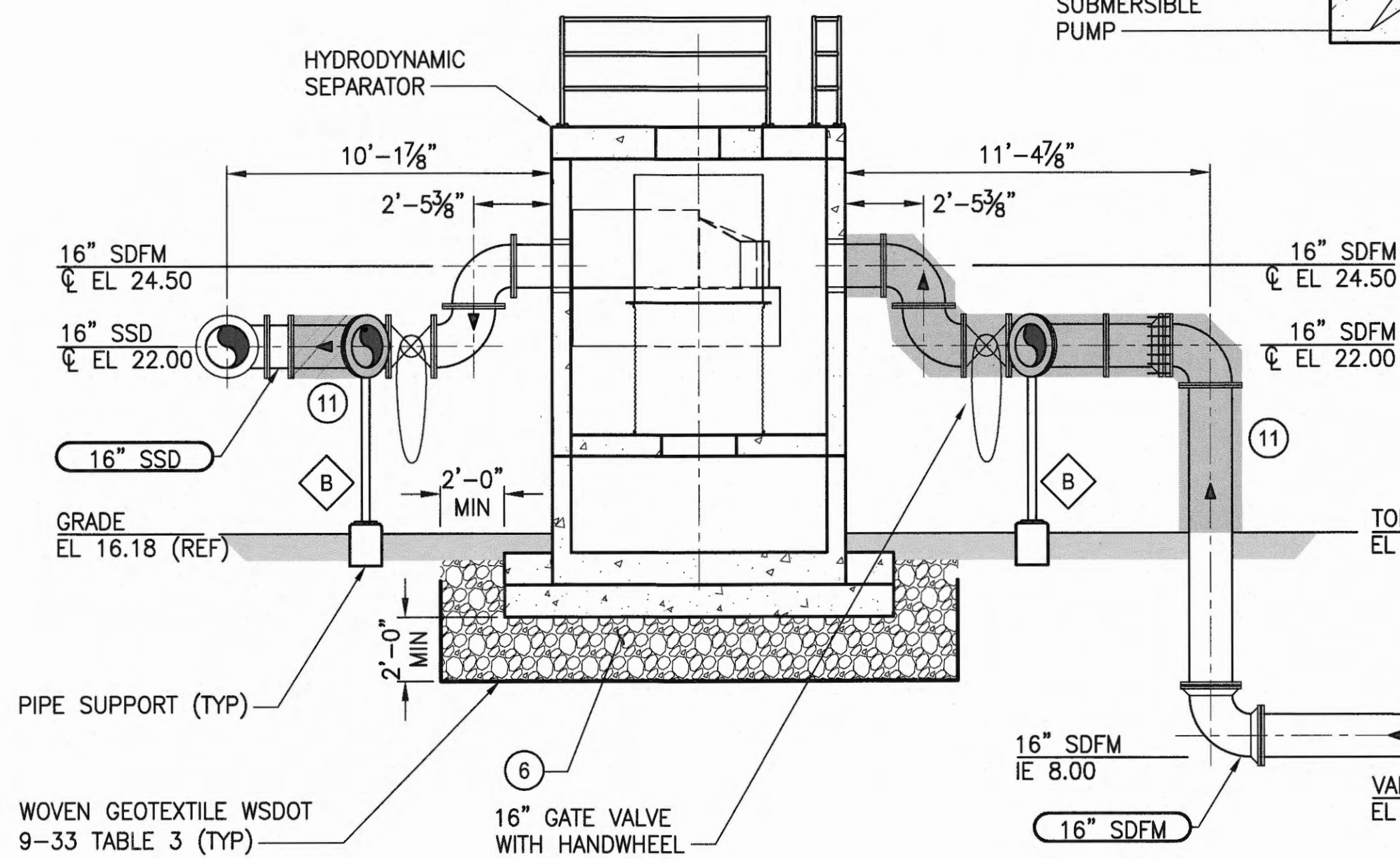
1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. PIPE SUPPORTS NOT SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY.
3. ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
4. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
5. CSBC, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
6. SEE SHEET M02 FOR OWNER SUPPLIED MATERIAL.
7. CAST-IN-PLACE CONCRETE PAD TO 1'-0" BELOW GRADE. SEE STRUCTURAL SHEETS.
8. HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION.

6583 M07 SH 34 OF 47	WEST SITCUM STORMWATER TREATMENT MECHANICAL SECTION - BASIN B	APPROVED: <i>[Signature]</i> 4/26/18 DIRECTOR DATE: 4/26/18	APR 25, 2018	BY:	DATE:
			CHECKED BY: JEM	PROJ. ENGR: peterden	APPR:
CONT/CONS: 070664	TOWNSHIP: 21N	RANGE: 3E	SECTIONS: 33 & 34	DATE: 201024.01	PHASE: BID SET
M. ID: 201024.01	DAT-HRZ: WA83-S	VERT: MLW	PORT ADDRESS: ONE SITCUM PLAZA	REVISION:	
PARCEL: SEE G02	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837			

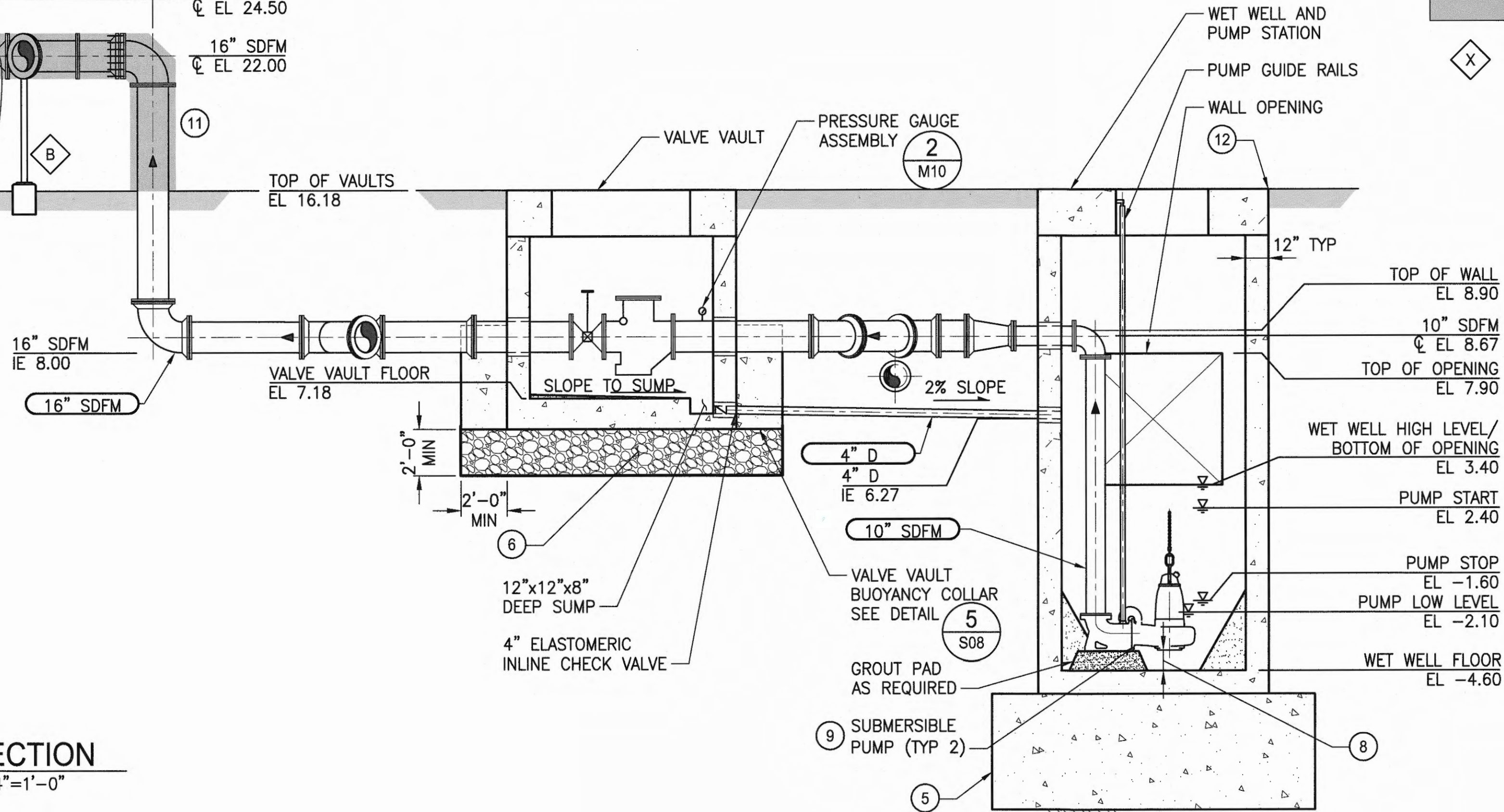
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A DETAIL/SECTION
M03 SCALE: 1/4"=1'-0"



B DETAIL/SECTION
M03 SCALE: 1/4"=1'-0"



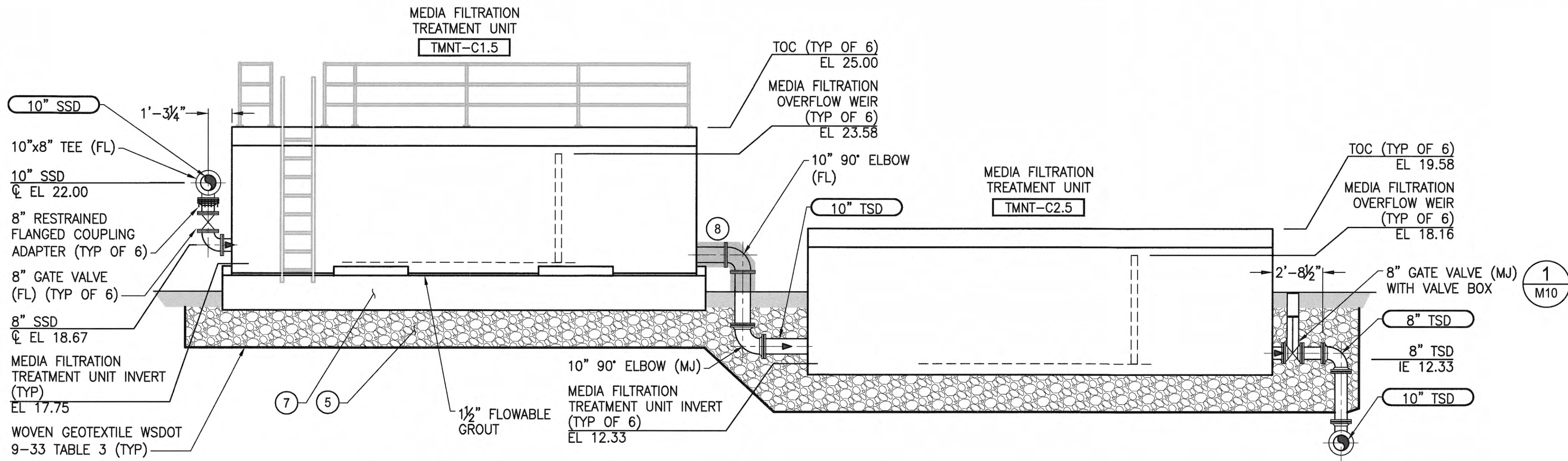
NOTES:

1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. NOT ALL PIPE SUPPORTS SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY. SEE LETTER ADJACENT TO SUPPORT FOR TYPE AS DETAILED ON DETAIL 5, SHEET S10.
3. ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
4. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
5. MUD SLAB, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS. SEE STRUCTURAL SHEETS FOR DETAILS.
6. CSBC, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
7. SEE SHEET M03 FOR OWNER SUPPLIED MATERIAL.
8. BASIS OF DESIGN PUMP REQUIRES A CLEARANCE OF 9 7/8" BETWEEN THE WET WELL FLOOR AND THE PUMP INTAKE. FOR EACH INCH OR FRACTION OF AN INCH OF ADDITIONAL CLEARANCE REQUIRED BY THE PROVIDED PUMP, THE PUMP STATION SYSTEM SUPPLIER SHALL INCREASE THE DEPTH OF THE WET WELL BY AN INCH.
9. BASIS OF DESIGN PUMP REQUIRES A MINIMUM SUBMERGED LEVEL OF 24" TO AVOID DAMAGE TO THE PUMP. FOR EACH INCH OR FRACTION OF AN INCH OF ADDITIONAL SUBMERGENCE REQUIRED BY THE PROVIDED PUMP THE PUMP STATION SYSTEM SUPPLIER SHALL INCREASE THE DEPTH OF THE WET WELL BY AN INCH.
10. INSTALL HARD RUBBER MOUNTS BETWEEN SST GUIDE RAILS AND CONCRETE.
11. HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION.
12. INSTALL COLLAR. SEE SHEET C06, DETAIL 2.

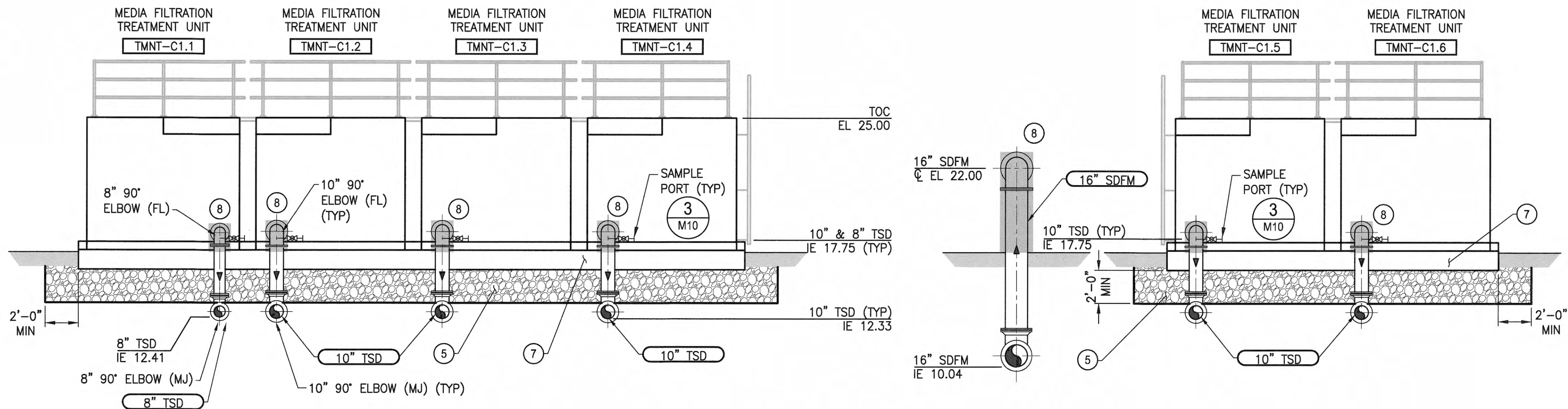
LEGEND:

- HEAT TRACE
- PIPE SUPPORT TYPE

6583 M08 SH 35 OF 47	WEST SITCUM STORMWATER TREATMENT MECHANICAL SECTION - BASIN C				APPROVED: <i>[Signature]</i> DIRECTOR, ENGR. DATE	JSL APR 2018 CHECKED BY DATE	 PORT OF TACOMA P.O. BOX 1837 TACOMA, WA 98401 (206) 383-1841
	CON/CONS: 070664 M. ID: 201024.01 PHASE: BID SET	TOWNSHIP: 21N RANGE: 3E SECTION: 33 & 34 DATE-HRZ: WA83-S PARCEL: SEE G02	VERT: MLW DRAWING SCALE: AS NOTED	PRINTED BY: peterden ONE SITCUM PLAZA TACOMA, WA 98401-1837	PROJ. ENGR DATE JEM APR 2018	BY: REVISION: MARK: APPR: DATE:	



C DETAIL/SECTION
M03 SCALE: 1/4"=1'-0"



D DETAIL/SECTION
M03 SCALE: 1/4"=1'-0"

NOTES:

- CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.
- PIPE SUPPORTS NOT SHOWN. PROVIDE PIPE SUPPORTS ON ALL PIPING WHERE NECESSARY.
- ALL JOINTS AND COUPLINGS SHALL BE RESTRAINED.
- ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS REQUIRE MODULAR MECHANICAL SEALS WITH TIGHTENING BOLTS INSIDE STRUCTURE. SEE SHEET M10, DETAIL 5.
- CSBC, SEE SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.

- SEE SHEET M03 FOR OWNER SUPPLIED MATERIAL.
- CAST-IN-PLACE CONCRETE PAD TO 1' BELOW GRADE. SEE STRUCTURAL FOR PAD DETAILS.
- HEAT TRACING, INSULATION, AND JACKETING TO BE APPLIED TO PIPES INDICATED WITH HATCHING. SEE ELECTRICAL FOR CIRCUITING AND CONTROLLER INFORMATION.

LEGEND:

HEAT TRACE



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APPROVED: J. L. Smith
JSL APR 2018
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DATE: APR 2018
DIRECTOR ENG. DATE: 4/26/18
PRINTED BY: peterden
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

WEST SITCUM
STORMWATER TREATMENT
MECHANICAL SECTION - BASIN C
TOWNSHIP: 21N RANGE: 3E SECTIONS: 33 & 34
DAT-HRZ: WAB3-S VERT: MLLW
PARCEL: SEE G02
DRAWING SCALE: AS NOTED

6583
M09
SH 36 OF 47
CONT/CONS: 070664
M. ID: 201024.01
PHASE: BID SET

