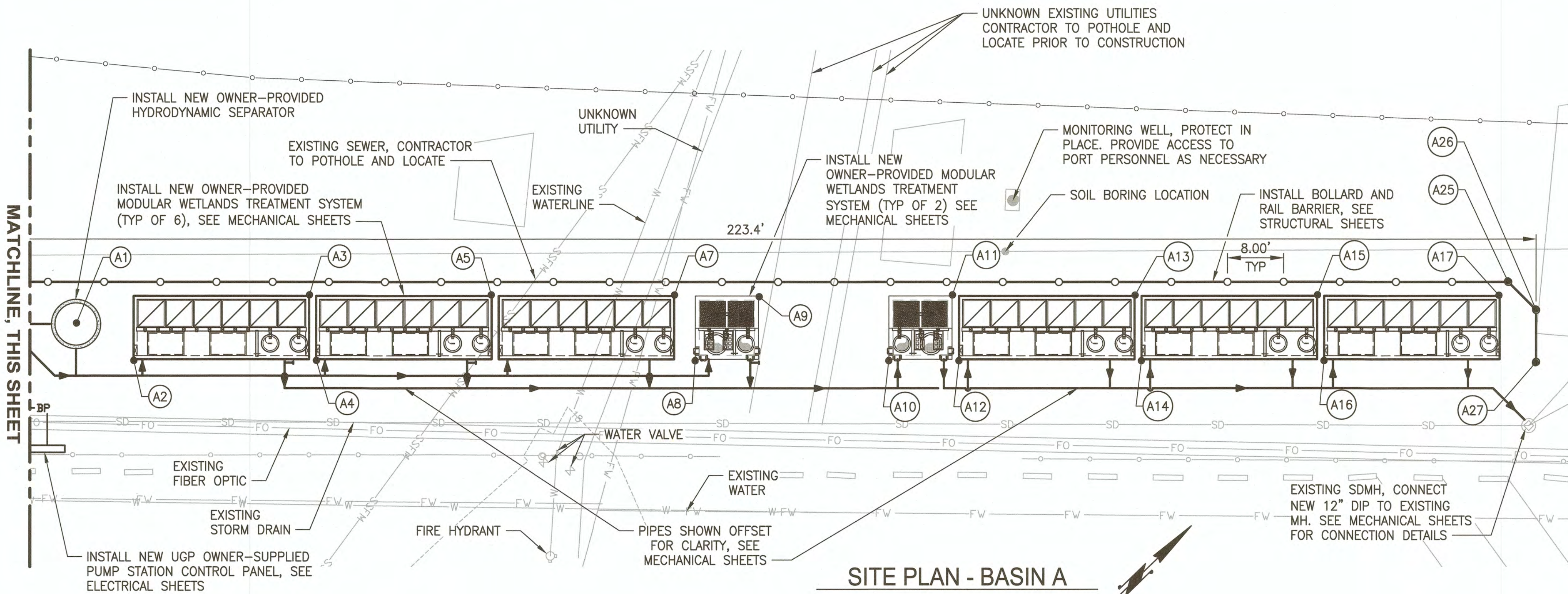




SCALE IN FEET

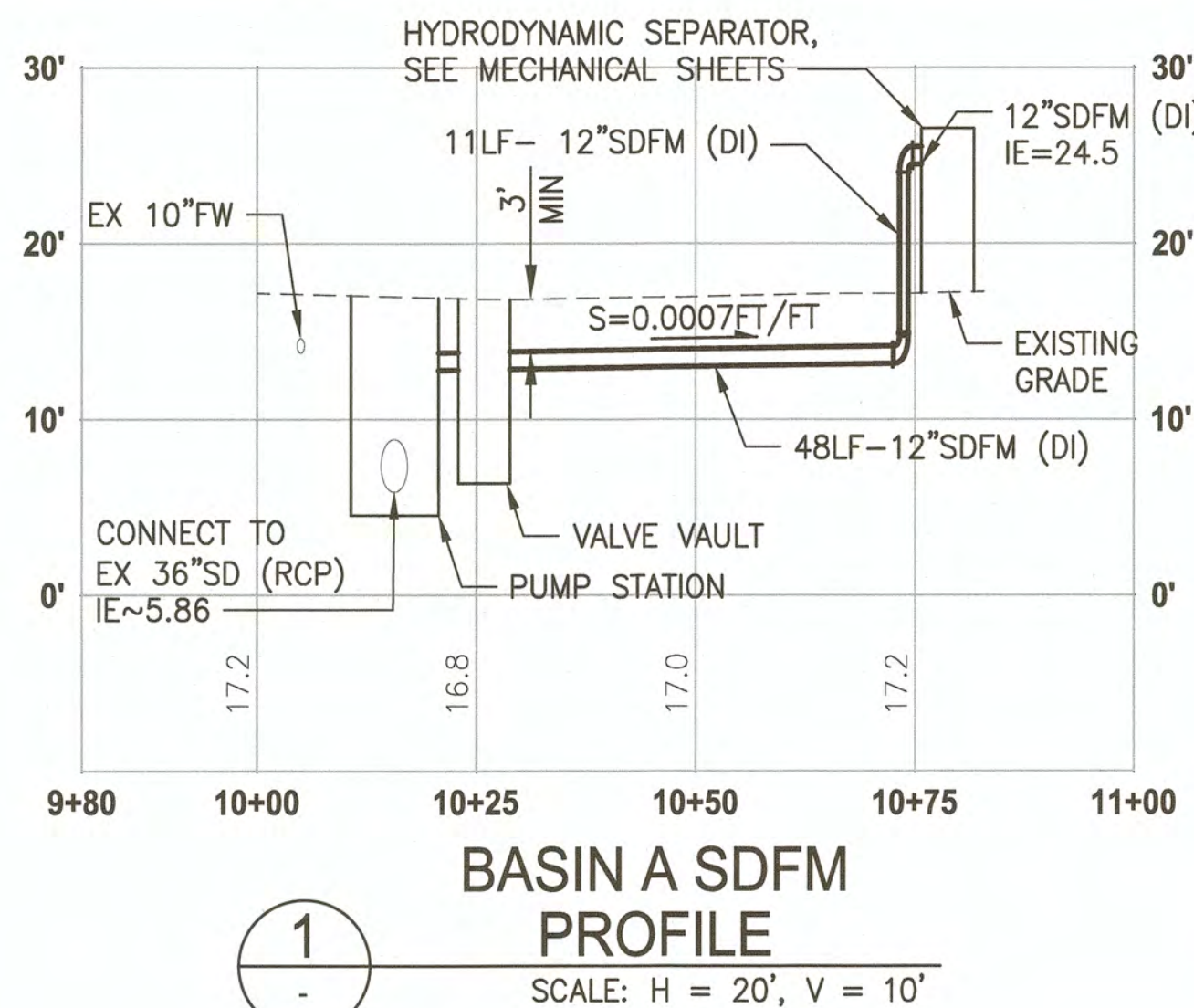
0 10 20

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2. SEE MECHANICAL AND ELECTRICAL SHEETS FOR WORK SCOPE DELINEATION DETAILS.
3. PRIOR TO COMMISSIONING OF TREATMENT SYSTEMS, CONTRACTOR SHALL CLEAN EXISTING STORM DRAIN STRUCTURES UPSTREAM OF TREATMENT SYSTEMS TO END OF PIPE BY FLUSHING ONE PIPE VOLUME MINIMUM, AND IN ACCORDANCE WITH WSDOT 7-07.

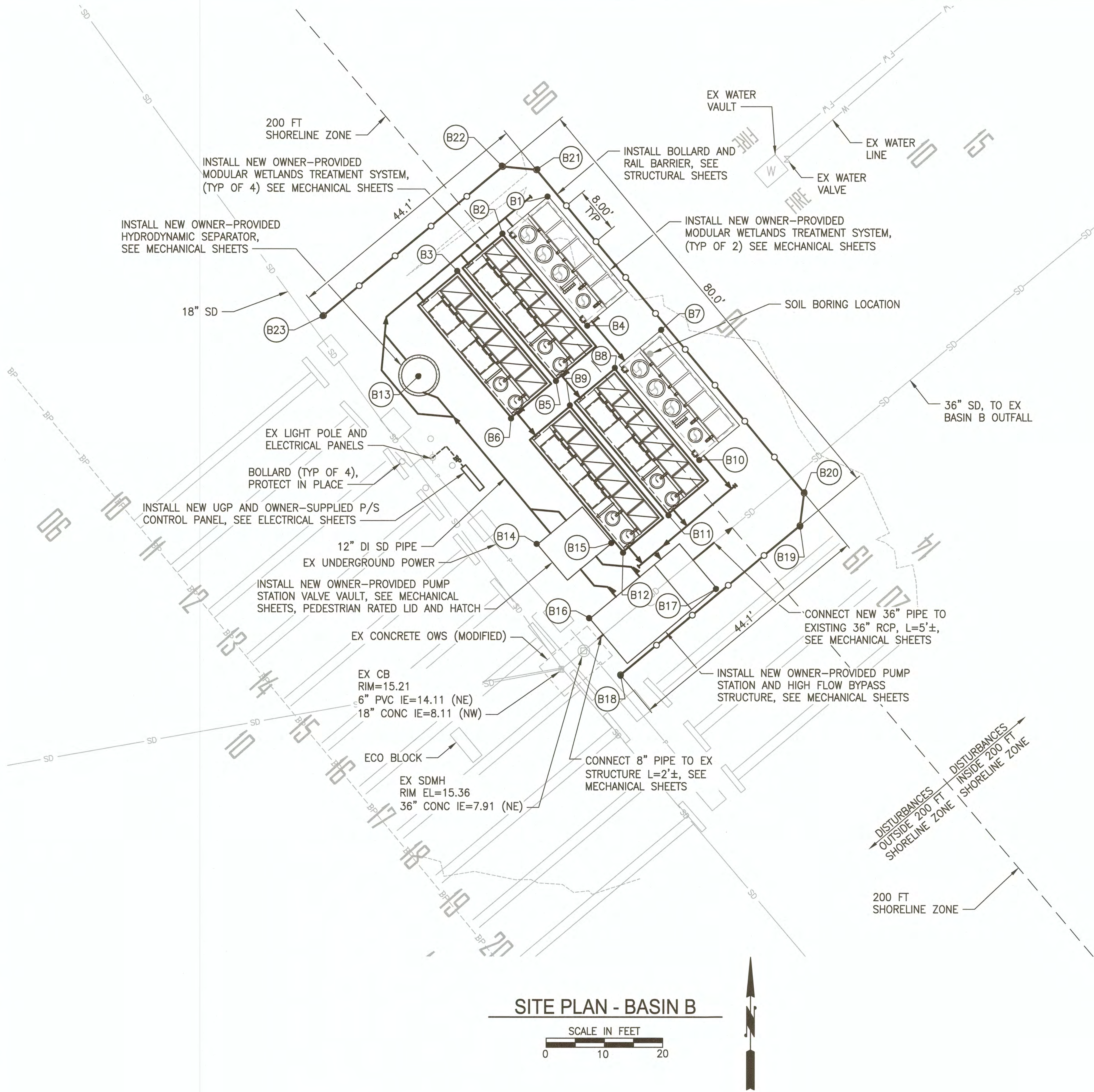
4. SEE SHEET G07 FOR WORK AND STAGING AREA LIMITS.
5. ALL FILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
6. CONTRACTOR SHALL MATCH EXISTING GRADES UNLESS SHOWN OTHERWISE.
7. COORDINATES (CO) ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS BASED ON EXISTING CONDITIONS.
8. CONTRACTOR SHALL VERIFY PIPE DIAMETERS AND MATERIAL PRIOR TO CONNECTION.
9. RESTORE PAVEMENT STRIPING AS REQUIRED.

10. RELOCATE EXISTING UTILITIES AS NECESSARY BASED ON RESULTS OF FIELD EXPLORATIONS. CONFIRM RELOCATION WITH PORT AND ENGINEER PRIOR TO PERFORMING WORK.
11. ALL JOINT, FITTINGS, AND VALVES SHALL BE RESTRAINED.
12. PREPARE SUBGRADE PER GEOTECHNICAL REPORT. SEE MECHANICAL SECTIONS FOR DETAILS.
13. CONTRACTOR TO POTHOLE PRIOR TO CONSTRUCTION AND CONFIRM MATERIAL, SIZE, HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES.

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
A			
A1	709427.02	1164984.85	HYDRODYNAMIC SEPARATOR – CENTER
A2	709429.45	1164994.13	MWS 8x24 – SOUTH CORNER
A3	709453.70	1165004.99	MWS 8x24 – NORTH CORNER
A4	709448.18	1165012.17	MWS 8x24 – SOUTH CORNER
A5	709472.43	1165023.03	MWS 8x24 – NORTH CORNER
A7	709491.16	1165041.06	MWS 8x24 – NORTH CORNER
A8	709487.08	1165049.63	MWS 8x8 – SOUTH CORNER
A9	709499.80	1165049.39	MWS 8x8 – NORTH CORNER
A10	709506.94	1165068.76	MWS 8x8 – SOUTH CORNER
A11	709519.67	1165068.52	MWS 8x8 – NORTH CORNER
A12	709514.14	1165075.69	MWS 8x24 – SOUTH CORNER
A13	709538.39	1165086.55	MWS 8x24 – NORTH CORNER
A14	709532.87	1165093.73	MWS 8x24 – SOUTH CORNER
A15	709557.12	1165104.59	MWS 8x24 – NORTH CORNER
A16	709551.60	1165111.76	MWS 8x24 – SOUTH CORNER
A17	709575.85	1165122.62	MWS 8x24 – NORTH CORNER
A18	709384.91	1164940.22	VALVE VAULT – WEST CORNER
A19	709386.57	1164952.92	VALVE VAULT – EAST CORNER
A20	709367.48	1164952.96	PUMP STATION – SOUTH CORNER
A21	709388.84	1164959.63	PUMP STATION – NORTH CORNER
A22	709405.78	1164984.62	BOLLARD
A23	709416.88	1164973.10	BOLLARD
A24	709422.53	1164972.21	BOLLARD
A25	709578.12	1165122.03	BOLLARD
A26	709578.23	1165127.68	BOLLARD
A27	709573.11	1165133.00	BOLLARD



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POINT TABLE			
POINT #	NORTHING	EASTING	DESC
B1	710969.06	1164454.96	MWS 8X20 - NORTH CORNER
B2	710962.51	1164447.13	MWS 8X24 - NORTH CORNER
B3	710956.10	1164439.46	MWS 8X24 - NORTH CORNER
B4	710946.89	1164461.50	MWS 8X20 - SOUTH CORNER
B5	710937.56	1164456.26	MWS 8X24 - SOUTH CORNER
B6	710931.15	1164448.59	MWS 8X24 - SOUTH CORNER
B7	710946.05	1164474.21	MWS 8X20 - NORTH CORNER
B8	710939.50	1164466.38	MWS 8X24 - NORTH CORNER
B9	710933.09	1164458.71	MWS 8X24 - NORTH CORNER
B10	710923.88	1164480.75	MWS 8X20 - SOUTH CORNER
B11	710914.55	1164475.51	MWS 8X24 - SOUTH CORNER
B12	710908.14	1164467.84	MWS 8X24 - SOUTH CORNER
B13	710938.33	1164432.78	HYDRODYNAMIC SEPARATOR - CENTER
B14	710909.41	1164453.16	VALVE VAULT - WEST CORNER
B15	710909.69	1164465.96	VALVE VAULT - EAST CORNER
B16	710896.70	1164462.18	PUMP STA - WEST CORNER
B17	710901.86	1164483.93	PUMP STA - EAST CORNER
B18	710887.06	1164467.43	BOLLARD
B19	710912.62	1164498.20	BOLLARD
B20	710918.21	1164498.92	BOLLARD
B21	710973.60	1164452.92	BOLLARD
B22	710974.16	1164447.09	BOLLARD
B23	710948.60	1164416.32	BOLLARD

CONSTRUCTION NOTES:

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6583
C02
SH 12 OF 47

CONT/CONS: 070664
M. ID: 201024.01
PHASE: BID SET

WEST SITCUM
STORMWATER TREATMENT
SITE PLAN - BASIN B

TOWNSHIP: 21N
RANGE: 3E
DAT-HRZ: WA83-S
PARCEL: SEE G02

SECTIONS: 33 & 34
VERT: MILLW
DRAWING SCALE: AS NOTED

APPROVED: *Jan. 16/2018*
DIRECTOR ENG. DATE: 4/26/18
PRINTED BY: peterden
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

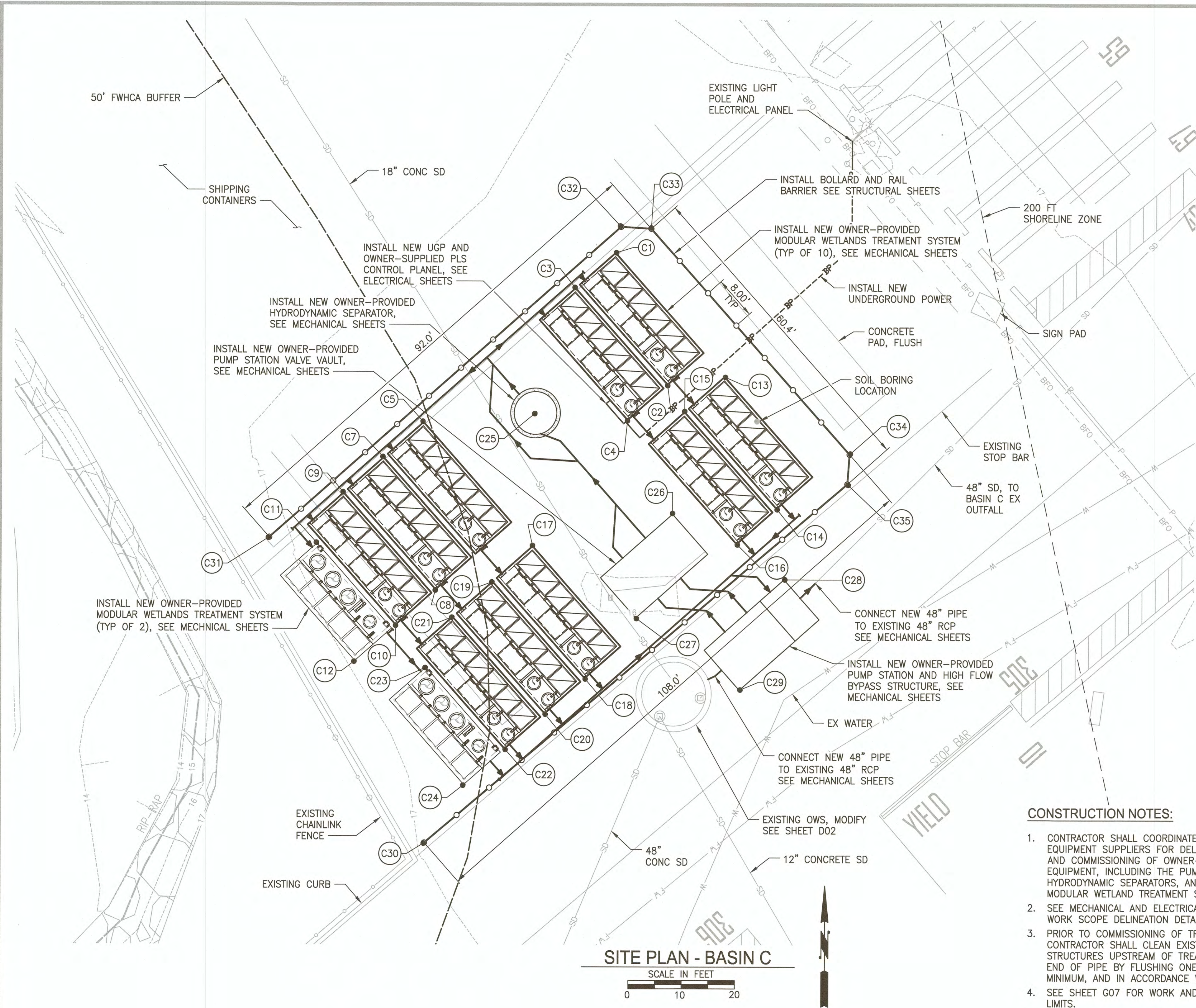
DLD JAN 2018
CHECKED BY DATE
CIS APR 2018
PROJ. ENGR DATE
peterden Apr 25, 2018
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TACOMA, WA 98401-1837

Port of Tacoma
P.O. BOX 887 TACOMA, WA 98401 (206)388-8841

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CHRIS T. SIMMONS
WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
NO. 10000
APRIL 25, 2018

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POINT TABLE			
POINT #	NORTHING	EASTING	DESC
C			
C1	711531.02	1163648.44	MWS 8x20 - NORTH CORNER
C2	711506.33	1163658.26	MWS 8x20 - SOUTH CORNER
C3	711524.39	1163640.95	MWS 8x24 - NORTH CORNER
C4	711499.71	1163650.77	MWS 8x24 - SOUTH CORNER
C5	711499.23	1163612.50	MWS 8x24 - NORTH CORNER
C7	711492.60	1163605.01	MWS 8x24 - NORTH CORNER
C8	711467.91	1163614.83	MWS 8x24 - SOUTH CORNER
C9	711485.98	1163597.52	MWS 8x24 - NORTH CORNER
C10	711461.29	1163607.34	MWS 8x24 - SOUTH CORNER
C11	711476.51	1163592.54	MWS 8x24 - NORTH CORNER
C12	711454.50	1163599.69	MWS 8x24 - SOUTH CORNER
C13	711507.80	1163668.98	MWS 8x20 - NORTH CORNER
C14	711483.11	1163678.80	MWS 8x20 - SOUTH CORNER
C15	711501.17	1163661.49	MWS 8x24 - NORTH CORNER
C16	711476.49	1163671.31	MWS 8x24 - SOUTH CORNER
C17	711476.01	1163633.04	MWS 8x24 - NORTH CORNER
C18	711451.32	1163642.86	MWS 8x24 - SOUTH CORNER
C19	711469.38	1163625.55	MWS 8x24 - NORTH CORNER
C20	711444.69	1163635.37	MWS 8x24 - SOUTH CORNER
C21	711462.76	1163618.05	MWS 8x24 - NORTH CORNER
C22	711438.07	1163627.88	MWS 8x24 - SOUTH CORNER
C23	711453.29	1163613.08	MWS 8x24 - NORTH CORNER
C24	711431.30	1163620.23	MWS 8x24 - SOUTH CORNER
C25	711500.98	1163633.49	HYDRODYNAMIC SEPARATOR - CENTER
C26	711482.06	1163659.27	VALVE VAULT - NORTH CORNER
C27	711462.65	1163652.41	VALVE VAULT - SOUTH CORNER
C28	711469.85	1163680.26	PUMP STATION - NORTH CORNER
C29	711449.12	1163671.91	PUMP STATION - SOUTH CORNER
C30	711420.39	1163612.83	BOLLARD
C31	711477.62	1163583.54	BOLLARD
C32	711535.92	1163649.46	BOLLARD
C33	711535.58	1163655.10	BOLLARD
C34	711493.30	1163692.49	BOLLARD
C35	711487.72	1163692.10	BOLLARD

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6583

C03

SH 13 OF 47

CONT/CONS: 070664

M. ID: 201024.01

PHASE: BID SET

WEST SITCUM

STORMWATER TREATMENT

SITE PLAN - BASIN C

APPROVED: *Ann VanDyke*

4/26/18

DIRECTOR ENG. DATE

PRINTED BY: peterden Apr 25, 2018

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

DLD JAN 2018

CHECKED BY DATE

CIS APR 2018

PROJ. ENGR DATE

APRIL 25, 2018

SECTION: 33 & 34

RANGE: 3E

TOWNSHIP: 21N

DAT-HRZ: WA83-S

PARCEL: SEE G02

SECTIONS: 33 & 34

RANGE: 3E

TOWNSHIP: 21N

DAT-HRZ: WA83-S

PARCEL: SEE G02

SCALE: AS NOTED

DRAWING SCALE: AS NOTED

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BREWERTON, WA 98337

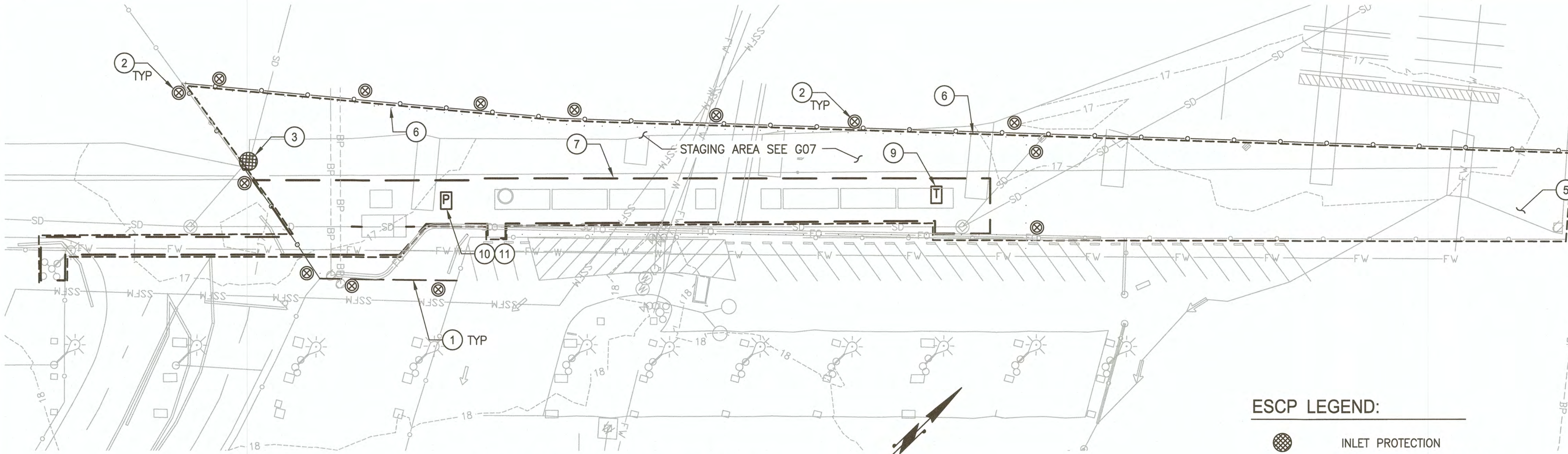
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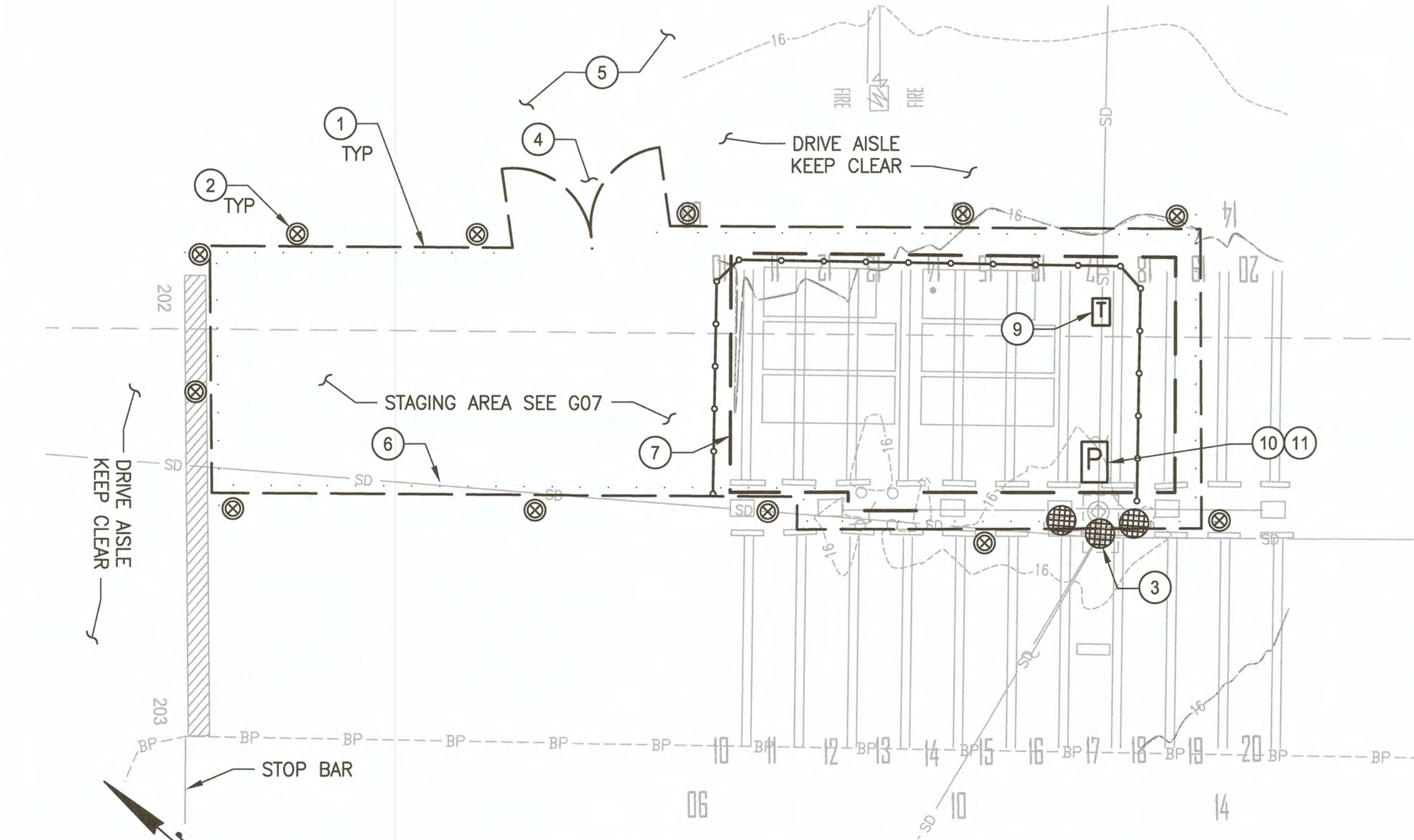
TEMPORARY ESCP - BASIN A
SCALE: 1" = 30'

ESCP LEGEND:

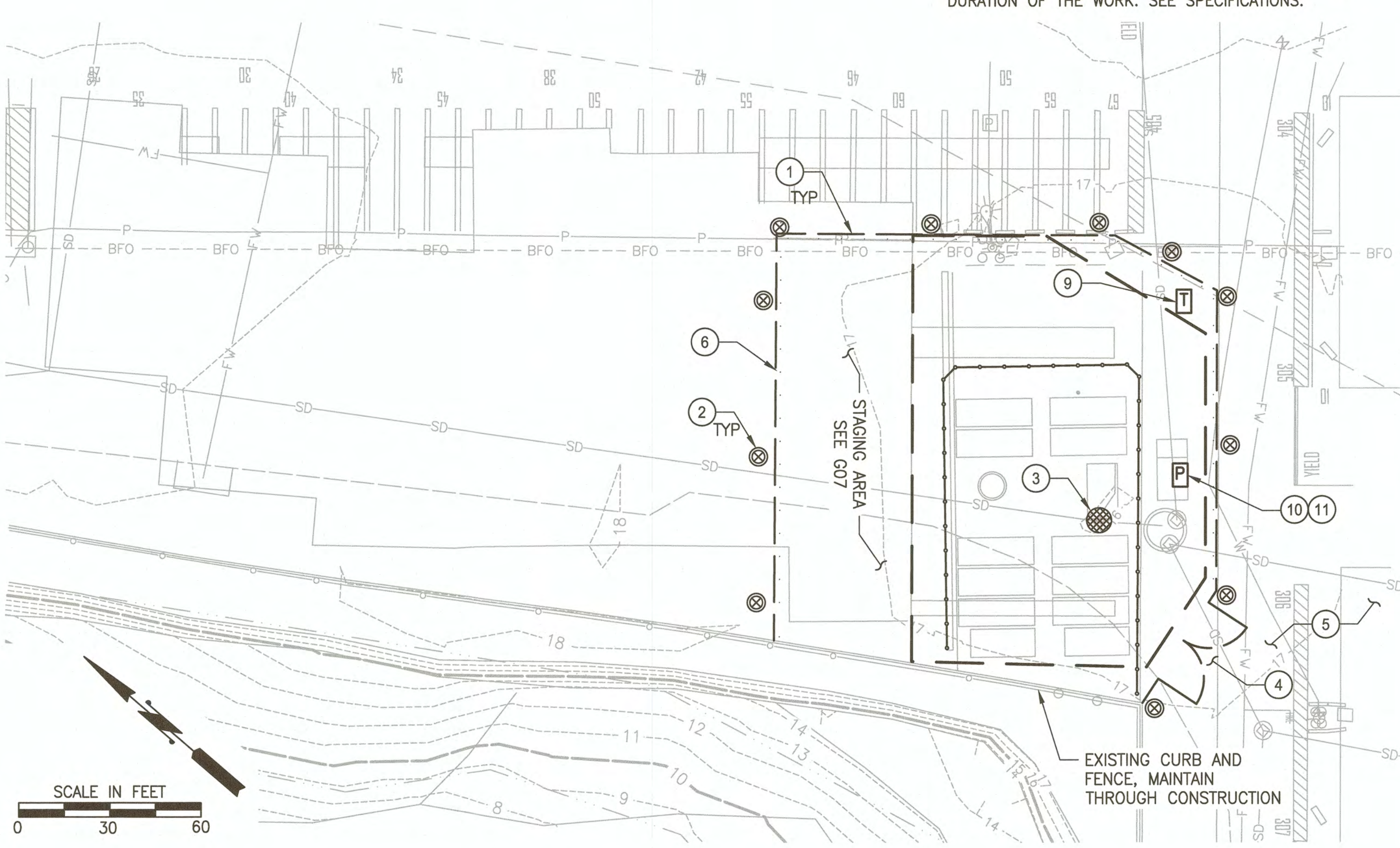
- INLET PROTECTION
- TEMPORARY CONSTRUCTION FENCE
- CONSTRUCTION ACCESS GATE
- BARREL WITH FLASHING BARRICADE LIGHTS
- TEMPORARY CURB, SEE SPECIFICATIONS
- TEMPORARY TREATMENT SYSTEM
- TEMPORARY PUMP SYSTEM

NOTES:

- 1 PROVIDE AND INSTALL TEMPORARY CONSTRUCTION FENCING AND GATES AROUND WORK LIMITS; ADJUST AND RELOCATE FENCING ACCORDING TO PHASING, SECURITY, AND PORT AND TENANT REQUIREMENTS.
- 2 PROVIDE AND INSTALL BARREL WITH FLASHING BARRICADE LIGHTS.
- 3 PROVIDE AND INSTALL INLET PROTECTION PER 1/C05.
- 4 AT EACH CONSTRUCTION ENTRANCE/GATE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A TEMPORARY ASPHALT BARRIER TO CONTROL RUNOFF.
- 5 CONTRACTOR SHALL PROVIDE VACUUM SWEEPING AROUND THE WORK LIMITS. NO AGGREGATE, PAVEMENT, SOIL, OR OTHER MATERIALS SHALL BE ALLOWED TO "TRACK" ACROSS THE TERMINAL. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- 6 CONTRACTOR SHALL INSTALL TEMPORARY CURB AROUND WORK ZONES.
- 7 AC PAVEMENT REMOVAL AND LIMITS OF EXCAVATION. THE SITE IS FULLY PAVED AND THE CONTRACTOR SHALL MARK ALL SAWCUT LIMITS AND/OR EXCAVATION ZONES WITH SPRAY PAINT PRIOR TO REMOVAL.
- 8 CONTRACTOR SHALL PROVIDE PLASTIC COVERING FOR SOIL STOCKPILES AND AGGREGATE STOCKPILE MATERIALS WITH RUNOFF COLLECTED AND TREATED PER NOTE 9.
- 9 CONTRACTOR SHALL PROVIDE A TEMPORARY TREATMENT SYSTEM CAPABLE OF TREATING ALL WATER DISCHARGED ACCORDING TO THE APPLICABLE PERMIT REQUIREMENTS. SEE SPECIFICATIONS.
- 10 INSTALL GROUNDWATER DEWATERING SYSTEM AS NEEDED.
- 11 INSTALL TEMPORARY STORMWATER BYPASS PUMPING SYSTEM. CONTRACTOR SHALL SECURE THE EXISTING MANHOLE LID/OPENING DURING REROUTE. SEE SPECIFICATIONS.
12. WATER MANAGEMENT: CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING ALL SURFACE RUNOFF, GROUNDWATER, AND TEMPORARY STORMWATER REROUTE FLOWS FOR THE DURATION OF THE WORK. SEE SPECIFICATIONS.



TEMPORARY ESCP - BASIN B
SCALE: 1" = 20'



TEMPORARY ESCP - BASIN C
SCALE: 1" = 30'

6583

C04

SH 14 OF 47

CONT/CONS: 070664

M. ID: 201024.01

PHASE: BID SET

WEST SITCUM

STORMWATER TREATMENT

EROSION CONTROL PLAN - BASINS A, B, & C

APPROVED: *[Signature]*

DIRECTOR ENGR. DATE: 4/26/18

PRINTED BY: peterden

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

DLD JAN 2018

CHECKED BY DATE

CIS APR 2018

PROJ. ENGR DATE

APR 25, 2018

SECTION: 33 & 34

RANGE: 21N

TOWNSHIP: 21N

DAT-HRZ: WA83-S

PARCEL: SEE G02

VERT: MLLW

DRAWING SCALE: AS NOTED

SECTIONS: 33 & 34

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BREWERTON, WA 98337

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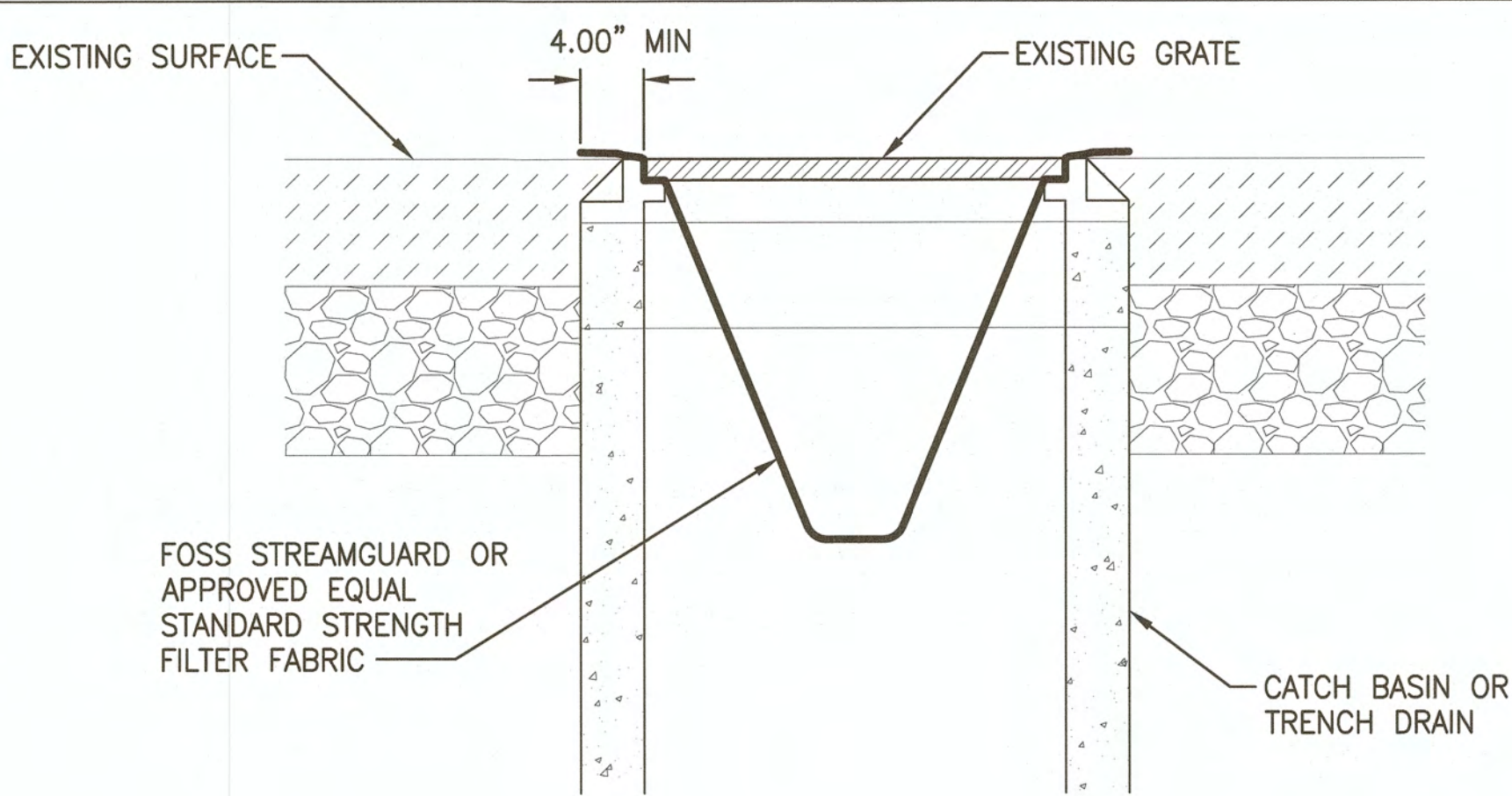
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APRIL 25, 2018

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STANDARD NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.



NOTES:

1. ALL EXISTING CATCH BASINS INSIDE WORK AREA AND WITHIN 100 FEET OF THE WORK ZONE SHALL BE ADDRESSED AS SHOWN.
2. THE CONTRACTOR SHALL CLEAN OUT STORMWATER CATCH BASIN PRIOR TO INSTALLING INLET PROTECTION.
3. INLET PROTECTION SHALL BE MAINTAINED PER MANUFACTURER'S RECOMMENDATIONS OR SHALL BE CLEANED OR REMOVED AND REPLACED WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. ANY ACCUMULATED SEDIMENT ON OR AROUND THE INLET SHALL BE REMOVED IMMEDIATELY.
4. SEDIMENT SHALL NOT BE REMOVED BY FLUSHING WITH WATER. ALL SEDIMENT MUST BE DISPOSED OF OFF-SITE AT AN APPROVED FACILITY.

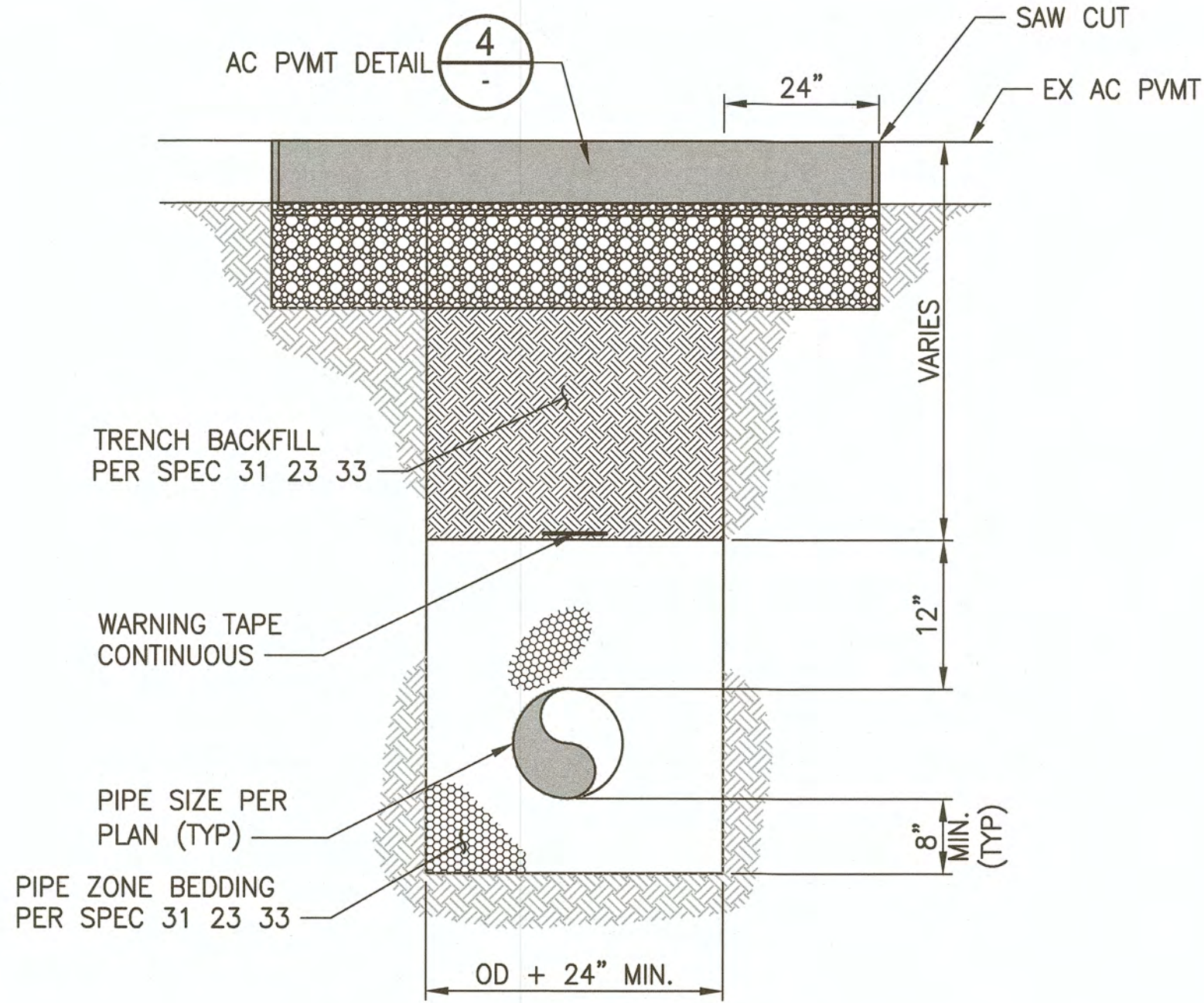
1

INLET PROTECTION DETAIL

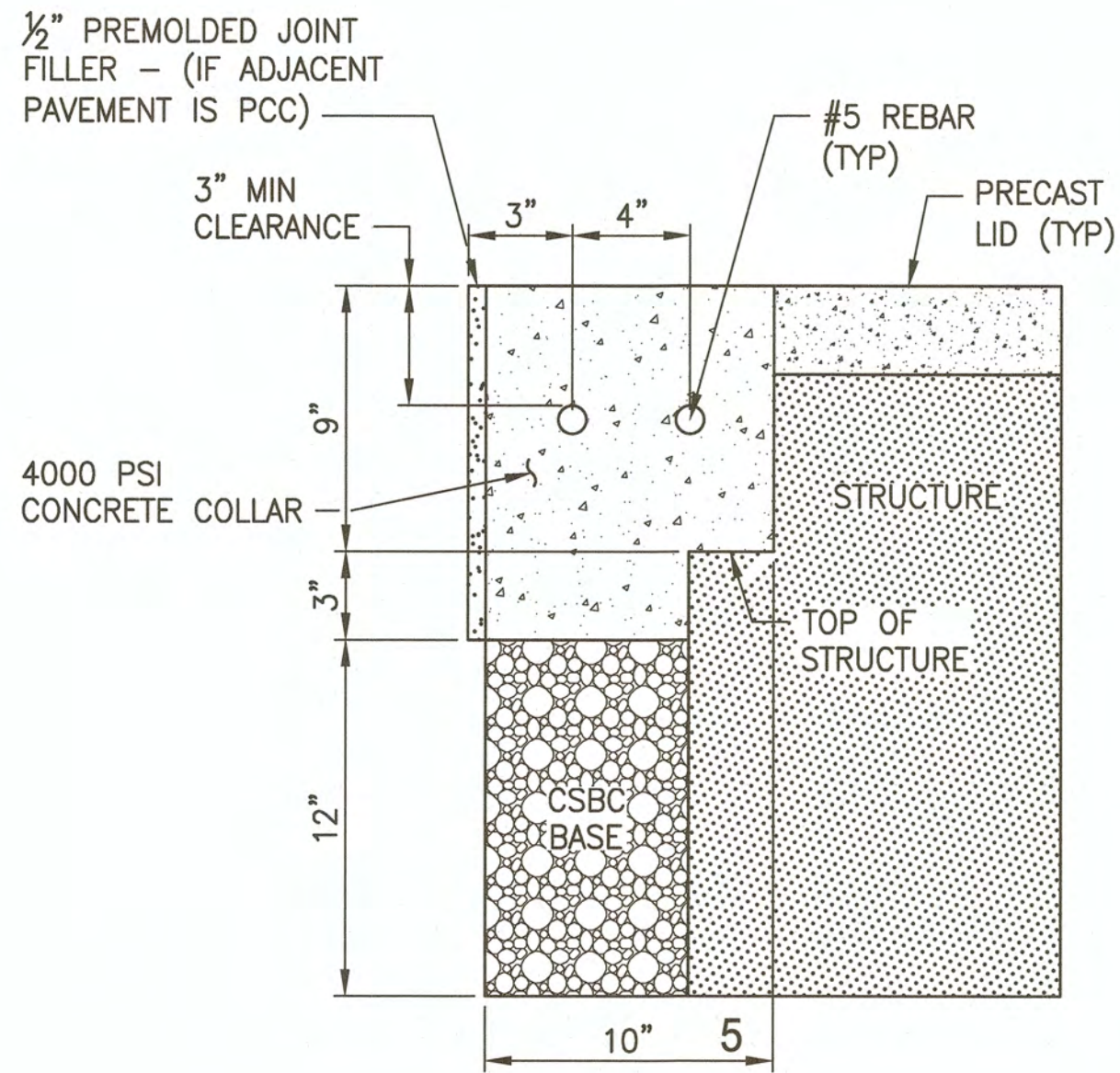
SCALE: NOT TO SCALE

6583 C05 SH 15 OF 47 CONT/CONS: 070664 M. ID: 201024.01 PHASE: BID SET	WEST SITCUM STORMWATER TREATMENT EROSION CONTROL NOTES AND DETAILS	APPROVED: <i>John Christensen</i> 4/26/18 DIRECTOR	DLD	JAN 2018
			CHECKED BY	DATE
			CIS	APR 2018
			PROJ. ENGR	DATE
TOWNSHIP: 21N		RANGE: 3E	SECTIONS: 33 & 34	
DAT-HRZ: WA83-S		VERT: MLLW		
PARCEL: SEE G02		DRAWING SCALE: AS NOTED		
PRINTED BY: peterden			Apr 25, 2018	
PORT ADDRESS: ONE SITCUM PLAZA				
TACOMA, WA 98401-1837				
APRIL 25, 2018				
60 WASHINGTON AVENUE, SUITE 390 BREMERTON, WA 98337 P: 360.377.0011 WWW.PARAMETRIX.COM			BY:	
MARK: REVISION:			APPR:	DATE:

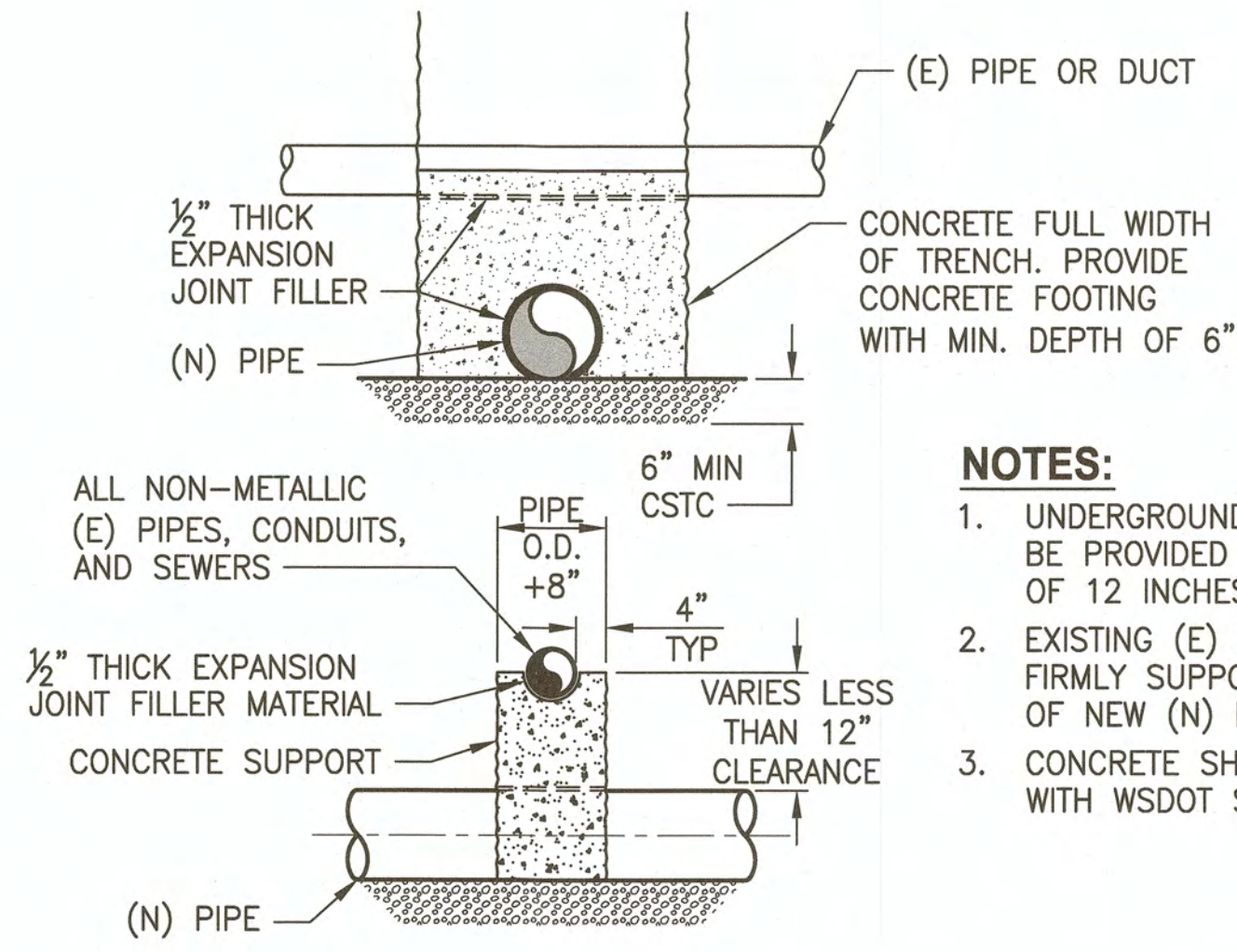
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1 PIPE TRENCH DETAIL
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2 COLLAR DETAIL
SCALE: NOT TO SCALE

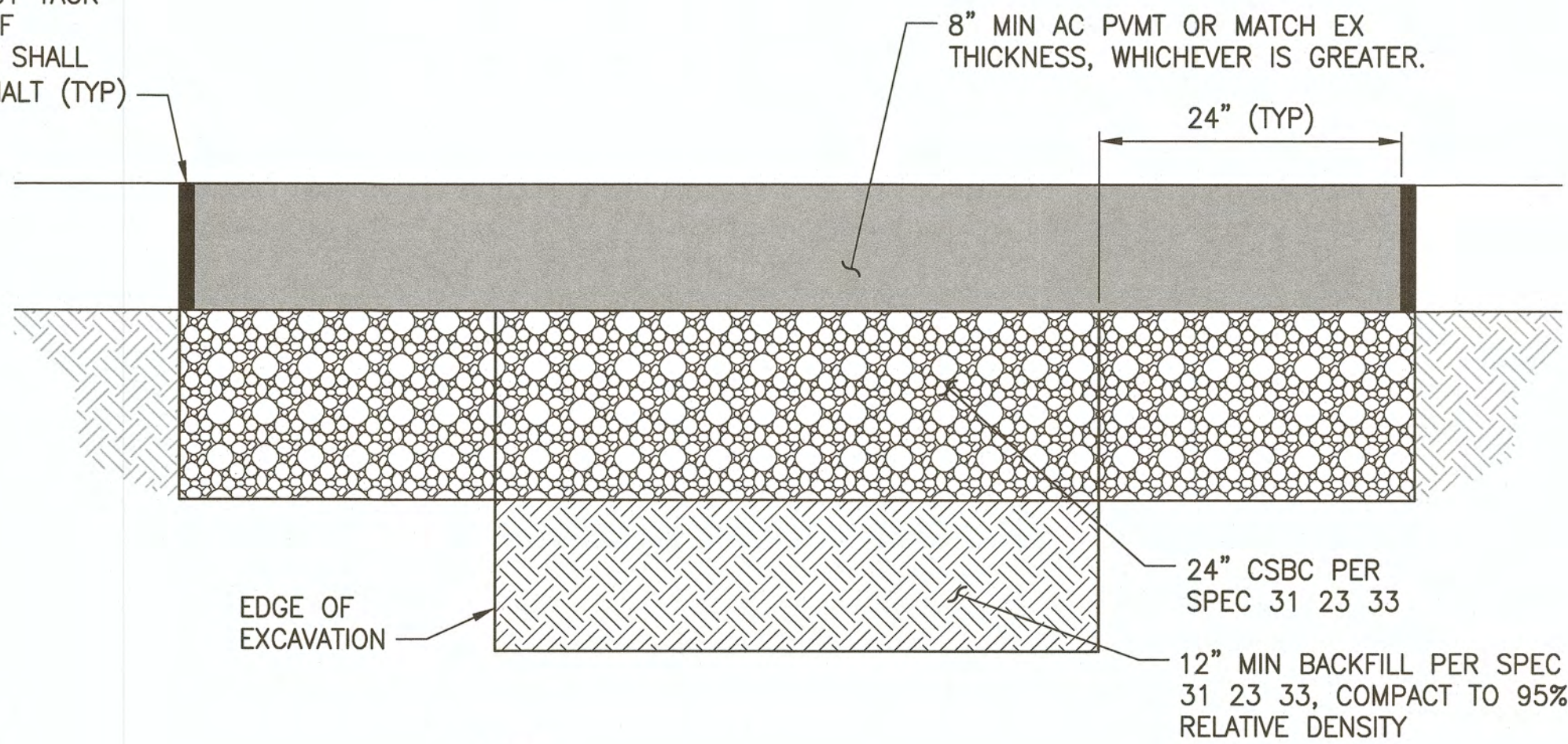


3 UNDERGROUND UTILITY SUPPORT DETAIL
SCALE: NOT TO SCALE

NOTES:

1. UNDERGROUND UTILITY SUPPORTS ARE TO BE PROVIDED WHEN MINIMUM CLEARANCE OF 12 INCHES CANNOT BE ACHIEVED.
2. EXISTING (E) PIPE OR DUCT SHALL BE FIRMLY SUPPORTED DURING INSTALLATION OF NEW (N) PIPE AND SUPPORT.
3. CONCRETE SHALL BE CDF IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.

EMULSIFIED ASPHALT GRADE CSS1 TACK SHALL BE APPLIED TO EDGES OF EXISTING PAVEMENT. ALL JOINTS SHALL BE SEALED W/ AR4 000W ASPHALT (TYP)



NOTES:

1. REFER TO SPEC SECTION 32 12 16 FOR PAVEMENT MIX.
2. EXISTING PAVEMENT THICKNESS VARIES.
3. SAW CUT AND REPLACE PAVEMENT 2 FEET BEYOND EDGE OF EXCAVATION.
4. ALL COSTS FOR AC PVMT, REGARDLESS OF THICKNESS, SHALL BE INCLUDED IN THE BID PRICE.

4 ASPHALT CONCRETE PAVEMENT DETAIL
SCALE: NOT TO SCALE

6583 C06 SH 16 OF 47	WEST SITCUM STORMWATER TREATMENT DETAILS - TREATMENT SYSTEM - BASIN A				APPROVED: <i>Jane VanDerby</i> 4/26/18 DIRECTOR	DLD JAN 2018 CHECKED BY DATE CIS APR 2018 PROJ. ENGR DATE	Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401-1837	
	CONTRACT/CONS:	070664	TOWNSHIP:	21N	RANGE:	3E	SECTIONS:	33 & 34
	M. ID:	201024.01	DAT-HRZ:	WAB3-S	VERT:	MLLW	PRINTED BY:	peterden Apr 25, 2018
	PHASE:	BID SET	PARCEL:	SEE G02	DRAWING SCALE:	AS NOTED	PORT ADDRESS:	ONE SITCUM PLAZA TACOMA, WA 98401-1837
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APRIL 25, 2018

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