

PORT OF TACOMA

PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM PROJECT NO. 101486.02 CONTRACT NO. 071522

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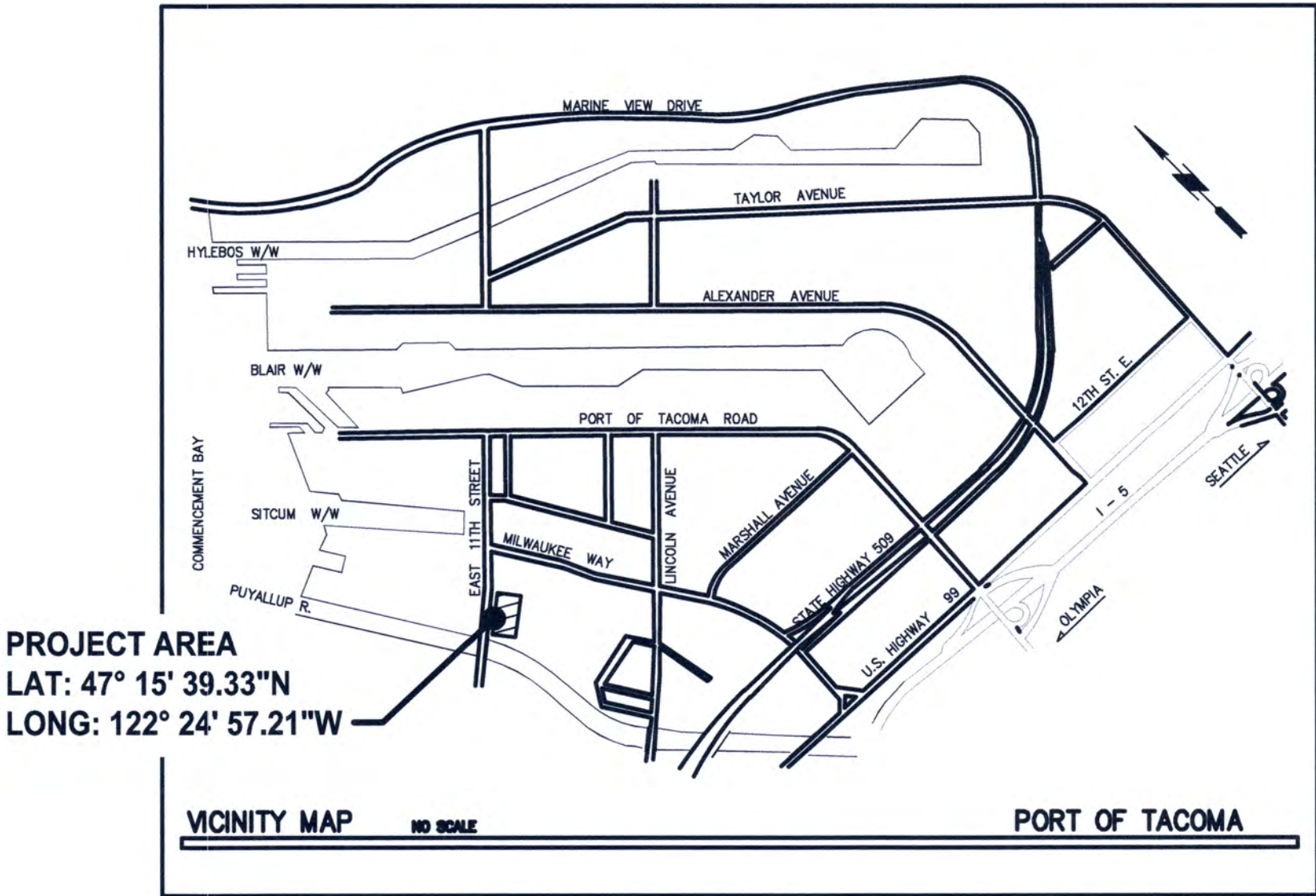
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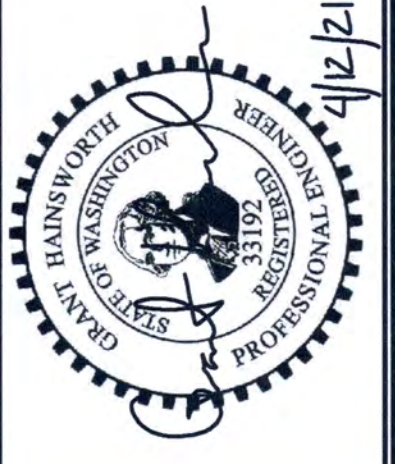

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DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G1.0	1	COVER SHEET	0
G1.1	2	GENERAL NOTES	0
G1.2	3	LAYDOWN AREA AND PARKING	0
C1.1	4	PIPING LAYOUT - WEST SECTION	0
C1.2	5	PIPING LAYOUT - EAST SECTION	0
C1.3	6	PIPING LAYOUT - SECOND FLOOR	0
C1.4	7	PIPING LAYOUT RELATIVE TO CEILING FEATURES - WEST SECTION	0
C1.5	8	PIPING LAYOUT RELATIVE TO CEILING FEATURES - EAST SECTION	0
C2.1	9	PIPING PROFILE - EAST WALL OF WEST BAY	0
C2.2	10	PIPING PROFILE - WEST WALL OF EAST BAY	0
C2.3	11	PIPING PROFILE - EAST WALL OF EAST BAY	0
C2.4	12	PIPING PROFILE AND BLOWER - SOUTH EXTERIOR WALL	0
C3.1	13	DETAILS	0
C3.2	14	DETAILS	0


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TACOMA, WA 98401-1837			

PARCEL 40 - BUILDING 600
SUBSLAB DEPRESSURIZATION SYSTEM
COVER SHEET

G1.0
SH # 1 OF # 14

CONT/CONS: 071522
M. ID: 101486.02
PHASE: BID SET

TOWNSHIP: 21N
RANGE: 3E
SECTION: 27
DATE-HRZ: WAB3-SF
VERT: MLLW 19.39' @ Tide 22 1933
DRAWING SCALE: AS NOTED
PARCEL: 40

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GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.
2. CONTRACTOR SHALL COMPLY WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AND THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ENGINEER.
4. CONTRACTOR SHALL FIELD FIT AROUND EXISTING UTILITIES AND OTHER OBSTRUCTIONS. PRIOR TO WORK, CONTRACTOR SHALL FIELD VERIFY OBSTRUCTIONS AND SHALL NOTIFY ENGINEER OF ANY CONFLICTS WITH CONSTRUCTION PLANS. ALL POSSIBLE OBSTRUCTIONS HAVE NOT BEEN IDENTIFIED BY ENGINEER.
5. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES. CONTRACTOR SHALL PROVIDE TIMELY NOTIFICATION TO ENGINEER FOR ALL WORK ITEMS REQUIRING COORDINATION.
6. ALL DEVIATIONS FROM THESE PLANS SHALL BE RECORDED ON A SET OF "AS-BUILT" DRAWINGS.
7. EXISTING UTILITIES THAT ARE DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED.

SUMP AND RISER NOTES

1. SUMP INSTALLATION WAS PERFORMED BY OTHERS. SUMPS ARE TEMPORARILY COMPLETED WITH A 4-INCH SCHEDULE 40 PVC SLIP COUPLING AND A 4-INCH ABS RISER AND END CAP.
2. SUMPS SHALL REMAIN CAPPED DURING PIPING INSTALLATION. PIPING SHALL NOT BE CONNECTED TO SUMPS UNTIL ALL OTHER PIPING HAS BEEN CONNECTED.
3. SUMPS AND RISERS SHALL BE PRESSURE-RATED SCHEDULE 40 PVC WATER PIPE (ASTM D 1785). ALL PVC PIPE CONNECTIONS SHALL BE SOLVENT WELDED.
4. PROTECTION OF THE RISER PIPE FROM IMPACT SHALL BE INSTALLED AT ALL SUMPS, EXCEPT SUMP E1.
5. VERTICAL PIPES SHALL BE SECURED WITH STRUT CHANNEL AND PIPE CLAMPS A MINIMUM OF EVERY 10 FEET TO COMPLY WITH THE INTERNATIONAL MECHANICAL CODE. PIPE CLAMPS SHALL BE THOMAS & BETTS KINDORF SUPERSTRUT®, OR APPROVED EQUIVALENT.
6. DETAIL 2 PROVIDES A CONCEPT FOR SECURING THE RISER TO THE PAINT BOOTH AT SUMP W2.
7. PVC PIPE SHALL BE PROTECTED FROM DAMAGE DURING TAPPING.
8. THE BUTTERFLY VALVE SHOWN IN DETAIL 1 SHALL BE A FLANGED 3-INCH PVC WAFER BUTTERFLY VALVE WITH EPDM SEAT, POLYPROPYLENE DISC, AND STAINLESS STEEL STEM, OR APPROVED EQUIVALENT.

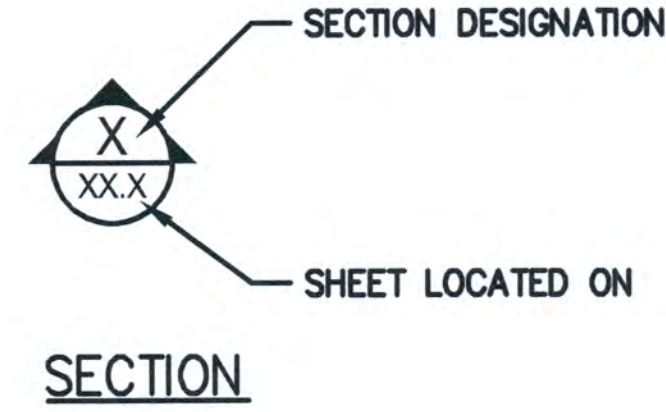
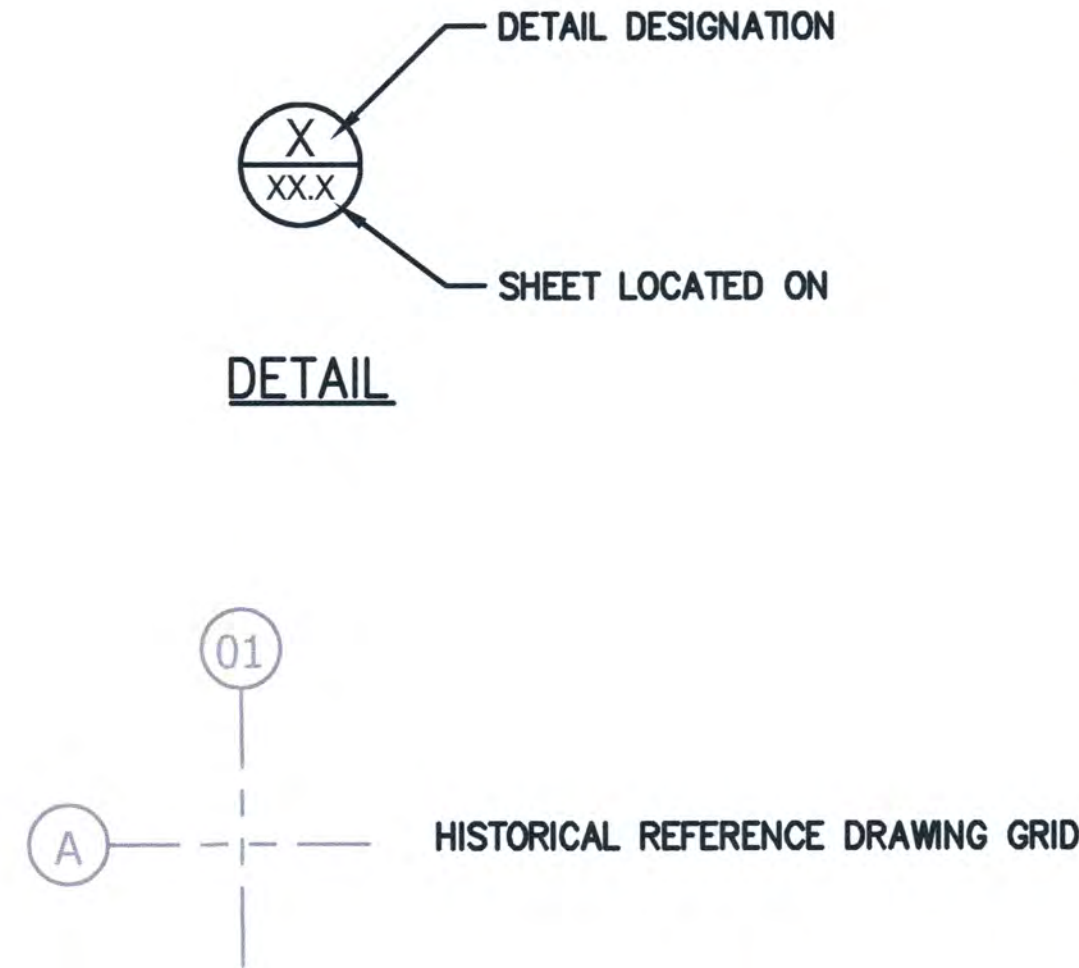
PIPING NOTES

1. ALL PIPING WILL BE FIELD FITTED AROUND OBSTRUCTIONS, AS APPROVED BY ENGINEER.
2. BEGINNING AT THE ELBOW OR TEE AT THE TOP OF EACH RISER AND CONTINUING TO THE BLOWER, ALL PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC DRAIN/WASTE/VENT (DWV; CELLULAR CORE) SCHEDULE 40 PVC (ASTM D4396). ALL PVC PIPE CONNECTIONS SHALL BE SOLVENT WELDED. AT GRADE BREAKS (SEE NOTE 4), PVC HOSE MAY BE USED, KANAFLEX CORPORATION STANDARD SUCTION AND DELIVERY HOSE, OR APPROVED EQUIVALENT.
3. LATERALS (HORIZONTAL PIPES) CONVEYING VAPORS FROM 1 SUMP SHALL BE 3-INCH DIAMETER AND LATERALS CONVEYING VAPORS FROM 2 OR MORE SUMPS SHALL BE 4-INCH DIAMETER.
4. LATERALS SHALL BE SLOPED TO DRAIN WATER TO SUMP LOCATIONS. LATERALS SHALL BE SLOPED A MINIMUM OF 2% WHEN THE WATER WILL DRAIN AGAINST THE DIRECTION OF AIR FLOW AND A MINIMUM OF 1% WHEN THE WATER WILL DRAIN IN THE SAME DIRECTION AS THE AIR FLOW.
5. ALL LATERAL PIPES SHALL BE SECURED A MINIMUM OF EVERY 6 FEET TO COMPLY WITH THE INTERNATIONAL MECHANICAL CODE AND ANSI/MSS SP-58-2018.
6. ALL LATERALS SHOULD BE PLACED AT HEIGHTS TO PREVENT DAMAGE FROM TRUCKS, TRAILERS, AND ASSOCIATED MAINTENANCE ACTIVITIES PERFORMED BY TENANT.
7. LATERAL PIPES SHALL BE SECURED TO WALLS USING STRUT CHANNEL AND PIPE CLAMPS OR SUSPENDED FROM THE RAFTERS USING PURLIN CLAMPS AND CEILING HANGERS. PIPE CLAMPS SHALL BE KINDORF SUPERSTRUT®, OR APPROVED EQUIVALENT. PURLIN CLAMPS SHALL BE PHD MANUFACTURING MODEL 290, OR APPROVED EQUIVALENT. CEILING HANGERS SHALL BE NFPA SWIVEL RING HANGERS, PHD MANUFACTURING MODEL 145, OR APPROVED EQUIVALENT. RAFTERS ARE 8214 PER AS-BUILT REFERENCE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY RAFTER DIMENSIONS.

WALL AND FLOOR PENETRATION NOTES

1. ALL CORES THROUGH INTERIOR AND EXTERIOR WALLS SHALL BE PERFORMED AFTER REINFORCING STEEL HAS BEEN LOCATED TO PREVENT DAMAGE TO THE REINFORCING STEEL.
2. CORES THROUGH EXTERIOR WALLS SHALL BE WEATHER-SEALED TO PREVENT MOISTURE FROM ENTERING THE BUILDING.
3. CORES THROUGH INTERIOR WALLS SHALL BE SEALED AND SHALL HAVE FIRE COLLARS INSTALLED WHERE REQUIRED.

SHEET SYMBOLS



ABBREVIATIONS

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
DIA	DIAMETER
FT	FOOT/FEET
GALV	GALVANIZED
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
ID	INSIDE DIAMETER
MAX	MAXIMUM
MIN	MINIMUM
NPT	NATIONAL PIPE THREAD
PVC	POLYVINYL CHLORIDE
SCH	SCHEDULE
SSDS	SUBSLAB DEPRESSURIZATION SYSTEM
T.O.	TOP OF
TYP	TYPICAL

G1.1 SH # 2 OF # 14	PARCEL 40 - BUILDING 600				APPROVED: 			 4/12/21	 	 P.O. BOX 1807 TACOMA, WA 98401-2308-0841	
	SUBSLAB DEPRESSURIZATION SYSTEM					CHECKED BY DATE					
	GENERAL NOTES					DIRECTOR ENG. DATE PROJ. ENGR DATE					
	TOWNSHIP: 21N RANGE: 3E SECTION: 27					PRINTED BY: Cobryn Apr 12, 2021					
	DAT-HRZ: WAB3-SF VERT: MLLW 19.39' @ Tide 22 19.33					PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837					
M. ID: 101486.02		PARCEL: 40		DRAWING SCALE: AS NOTED							
PHASE: BID SET								MARK:		REVISION:	
								BY:		APPR:	
								DATE:			



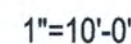
G1.2 SH # 3 OF # 14	PARCEL 40 - BUILDING 600				APPROVED:		CHECKED BY		DATE	
	SUBSLAB DEPRESSURIZATION SYSTEM				LAYDOWN AREA AND PARKING		DATE		DATE	
CONT/CONS: 071522	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE	PROJ. ENGR	DATE	4/9/21		4/12/21	
M. ID: 101486.02	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: Cabryn Apr 12, 2021	PORT ADDRESS: ONE SITCUM PLAZA						
PHASE: BID SET	PARCEL: 40	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837							

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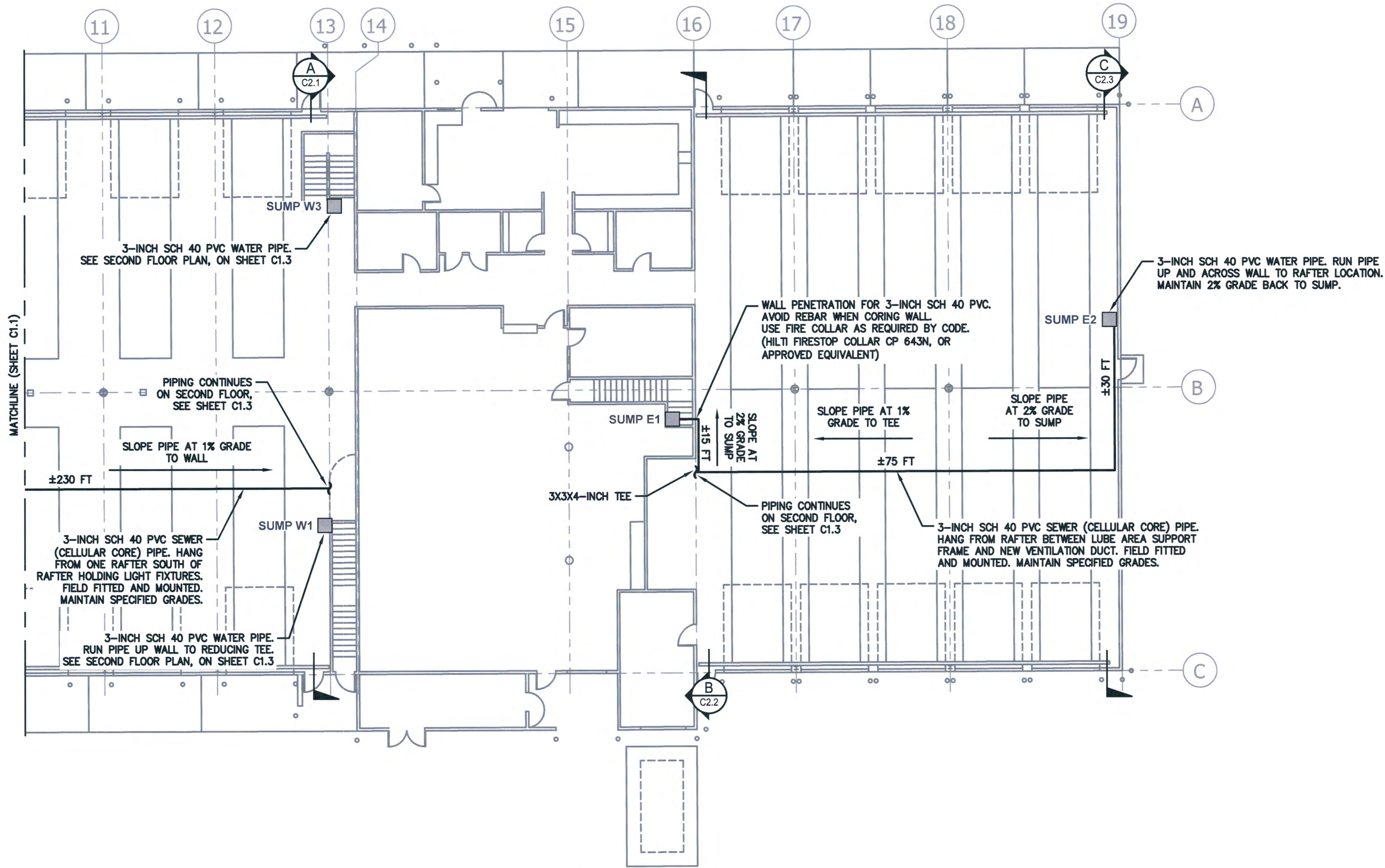
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SCALE: 1"=10'



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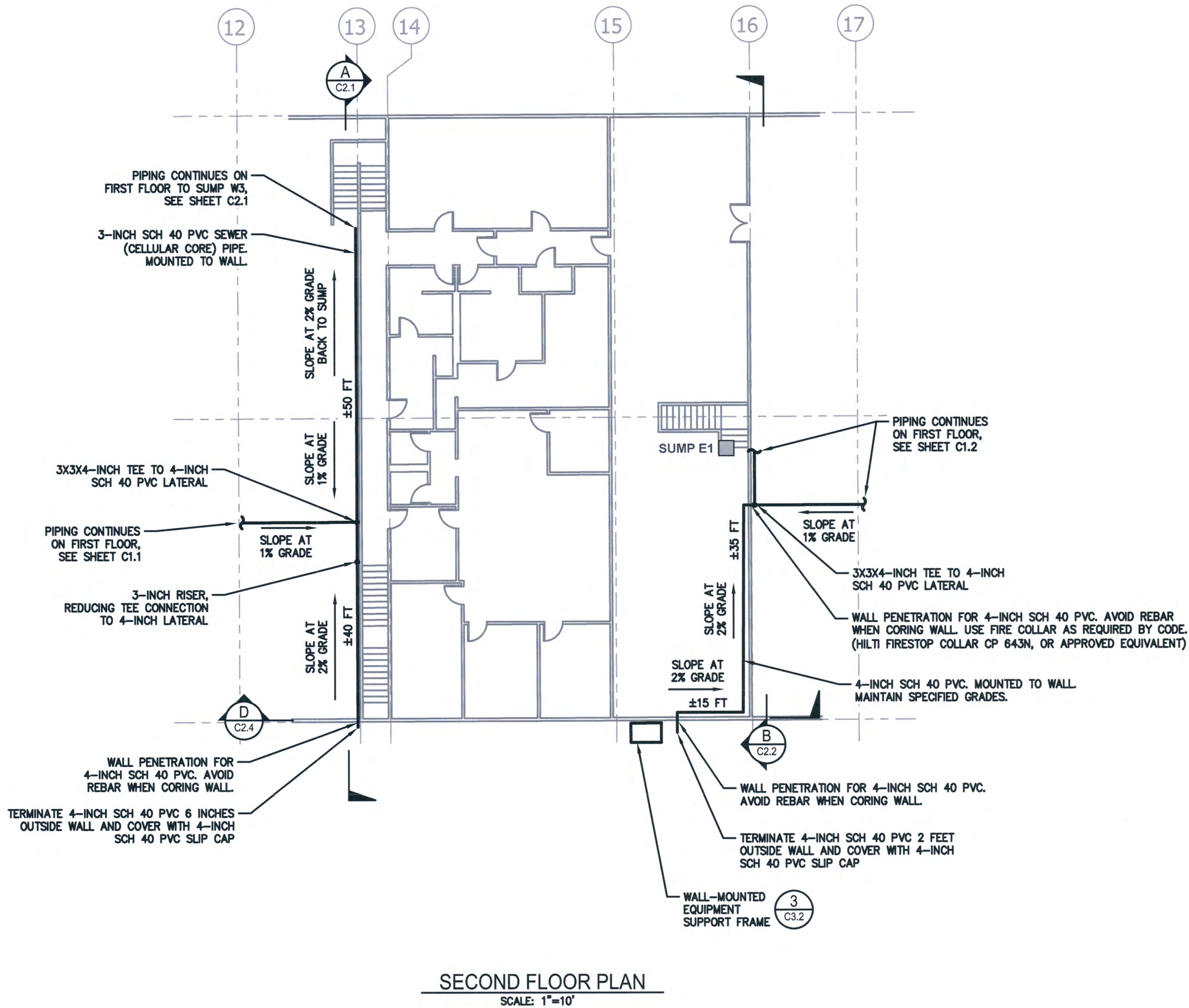


EAST SECTION
FIRST FLOOR PLAN
SCALE: 1"=10'

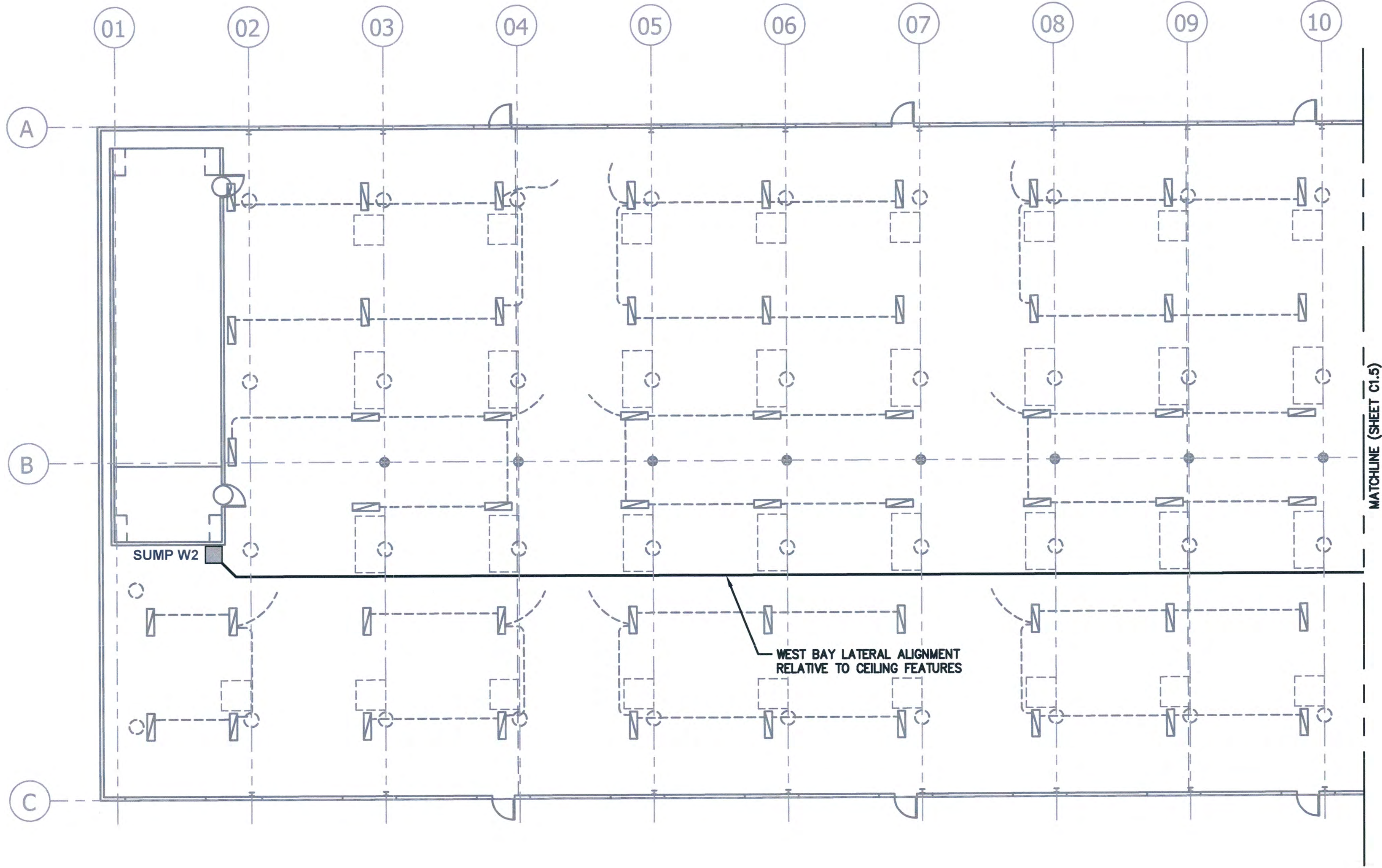


C1.2 SH # 5 OF # 14	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM PIPING LAYOUT - EAST SECTION				APPROVED:	CHECKED BY	DATE		
	CONTRACT/CONS: 071522	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27		DIRECTOR ENG. DATE	PROJ. ENGR. DATE		
	M. ID: 101486.02	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: Cabryn Apr 12, 2021		DATE			
	PHASE: BID SET	PARCEL: 40	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837					
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C1.3 SH # 6 OF # 14 CONT/CONS: 071522 M. ID: 101486.02 PHASE: BID SET	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM PIPING LAYOUT - SECOND FLOOR				APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: 4/14/21	CHECKED BY: DATE: <i>[Signature]</i>	CRETE CONSULTING, INC. moffatt & nichol		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)335-5841
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DATE: 07/15/22	PRINTED BY: Coby, Apr 12, 2021	PROJ. ENGR DATE: 4/14/21	MARK:	REVISION:	BY:
	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED	PARCEL: 40	TACOMA, WA 98401-1837	PORT ADDRESS: ONE SITCUM PLAZA	APPR:	DATE:	
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WEST SECTION
CEILING PLAN
SCALE: 1"=10'



C1.4

SH # 7 OF # 14

CONT/CONS: 071522

M. ID: 101486.02

PHASE: BID SET

PARCEL 40 - BUILDING 600

SUBSLAB DEPRESSURIZATION SYSTEM

PIPING LAYOUT RELATIVE TO CEILING FEATURES - WEST SECTION

TOWNSHIP: 21N

RANGE: 3E

SECTION: 27

DAT-HRZ: WA83-SF

VERT: MLLW 19.39' @ Tide 22 1933

DRAWING SCALE: AS NOTED

PARCEL: 40

APPROVED:

DIRECTOR ENG. DATE

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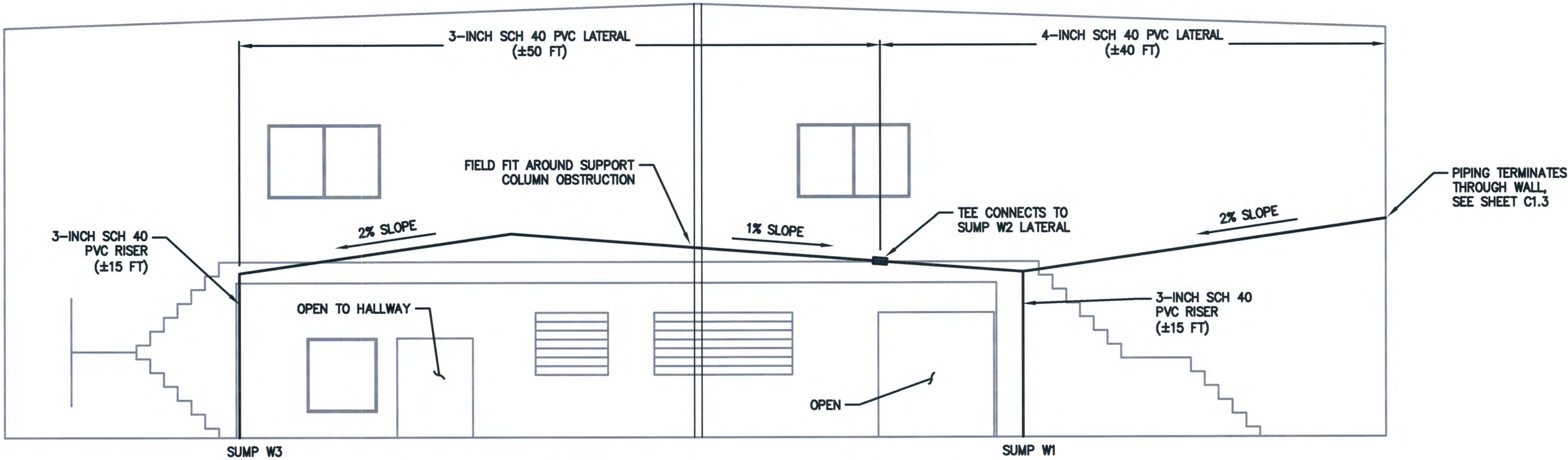
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4/12/21

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C1.5 SH 8 OF #14	PARCEL 40 - BUILDING 600				APPROVED: Shane Jones 4/12/21		CHECKED BY DATE					P.O. BOX 4887 TACOMA, WA 98401 (206)383-5641
	SUBSLAB DEPRESSURIZATION SYSTEM PIPING LAYOUT AND CEILING FEATURES -											
	TOWNSHIP: 21N		RANGE: 3E		SECTION: 27		DIRECTOR ENG. DATE PROJ. ENGR DATE					
	M. ID: 101486.02		DAT-HRZ: WA83-SF		VERT: MLLW 19.39' @ Tide 22 1933		PRINTED BY: Cabryn Apr 12, 2021 PORT ADDRESSONE SITCUM PLAZA					
	PHASE: BID SET		PARCEL: 40		DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837					
MARK:		REVISION:		BY:		APPR:		DATE:				



INTERIOR VIEW
EAST WALL OF WEST BAY
ELEVATION
SCALE: 1"=5'

A
C1.3

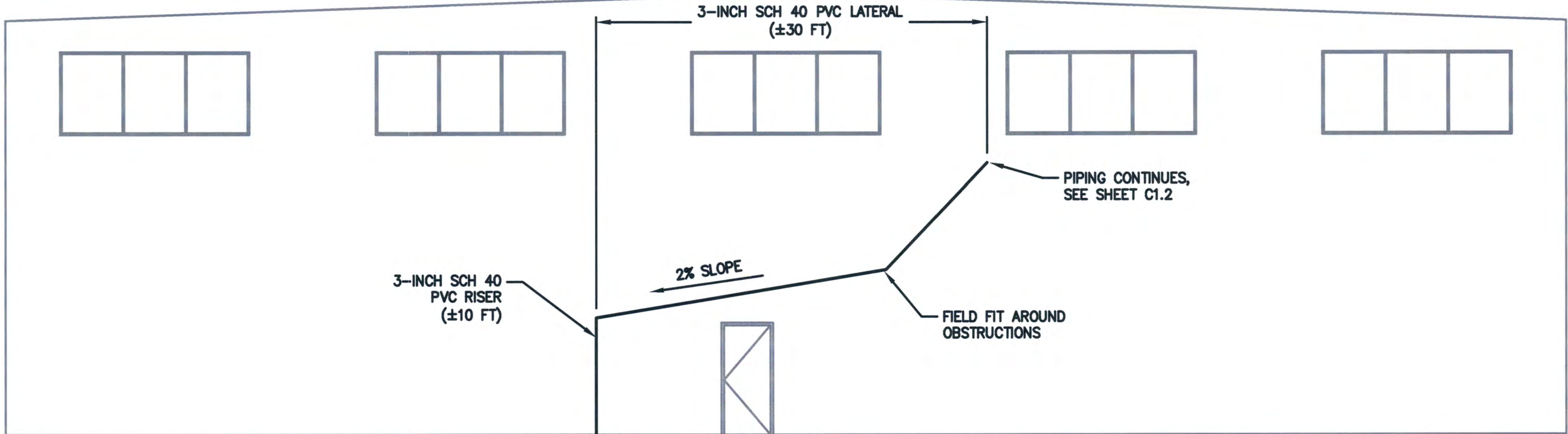


C2.1 SH # 9 OF # 14 CONT./CONS: 071522 M. ID: 101486.02 PHASE: BID SET	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM PIPING PROFILE - EAST WALL OF WEST BAY				APPROVED: 	CHECKED BY DATE	CRETE CONSULTING, INC.	Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206)335-5841
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: Cabryn Apr 12, 2021	PROJ. ENGR DATE	BY:	MARK:	REVISION:
	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide	DATE: 22 1933	PORT ADDRESS: ONE SITCOM PLAZA	DATE: 4/12/21	BY:	APPR:	DATE:
	PARCEL: 40	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837					

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C
C1.2

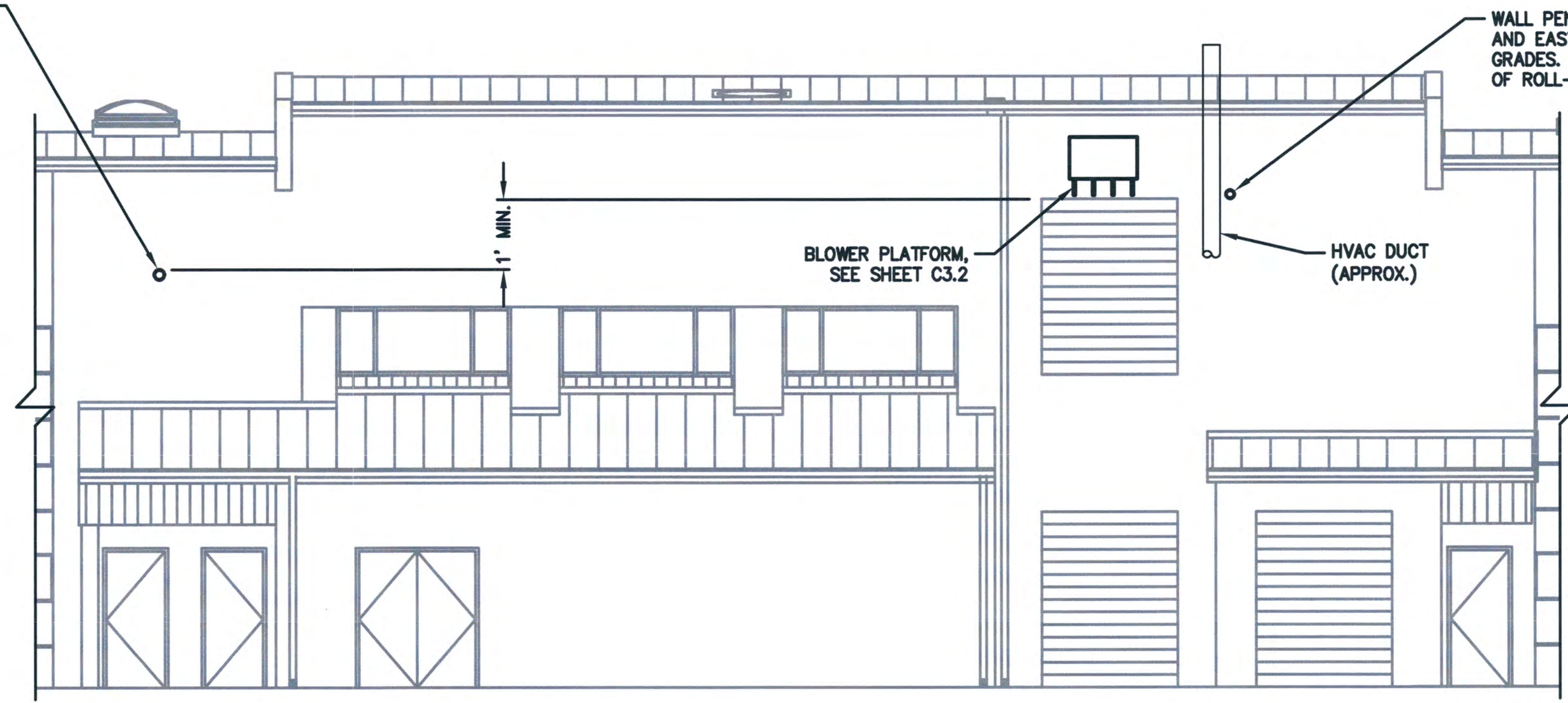
INTERIOR VIEW
EAST WALL OF EAST BAY
ELEVATION
SCALE: 1"=5'



C2.3 SH # 11 OF # 14	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM PIPING PROFILE - EAST WALL OF EAST BAY				APPROVED:	CHECKED BY	DATE			
	TOWNSHIP: 21N RANGE: 3E SECTION: 27					DIRECTOR ENG. / DATE 4/14/21	DATE Apr 12, 2021			
	M. ID: 101486.02 DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933							PRINTED BY: Cdbryn	DATE	
	PHASE: BID SET							PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		
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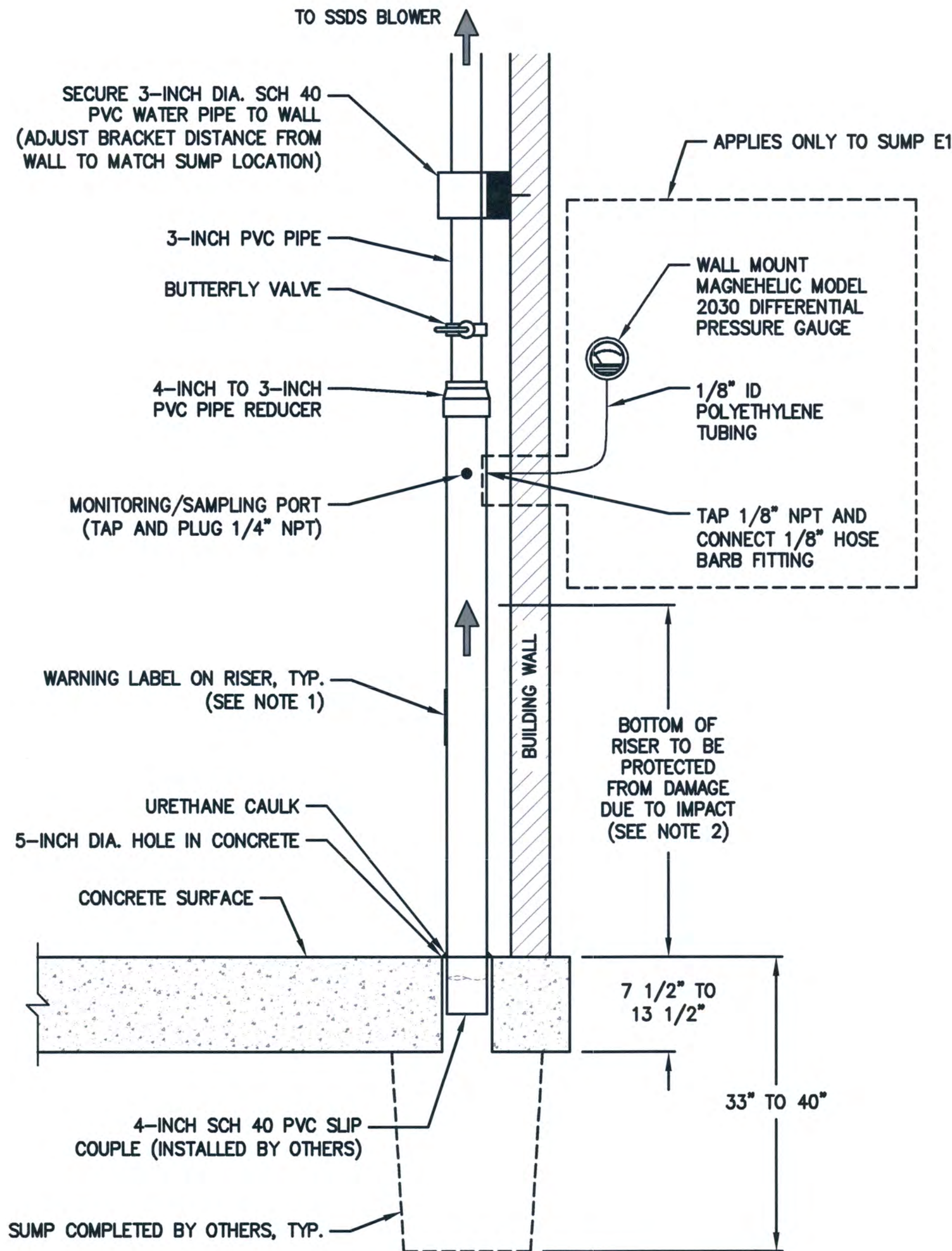


D SOUTH - ELEVATION
C1.3 SCALE: 1"=5'



C2.4 SH 12 OF 14	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM PIPING PROFILE AND BLOWER - SOUTH EXTERIOR WALL				APPROVED:	CHECKED BY DATE					P.O. BOX 187 TACOMA, WA 98401-0187
	DIRECTOR ENG. DATE DATE PROJ. ENGR	DATE REVISION	DATE BY	DATE APPR							
CONTRACT/CONS: 071522 M. ID: 101486.02 PHASE: BID SET	TOWNSHIP: 21N RANGE: 3E SECTION: 27	PRINTED BY: Cabryn Apr 12, 2021 PORT ADDRESSONE SITCUM PLAZA TACOMA, WA 98401-1837	MARK REVISION	BY	DATE APPR	DATE REVISION	DATE BY	DATE APPR			

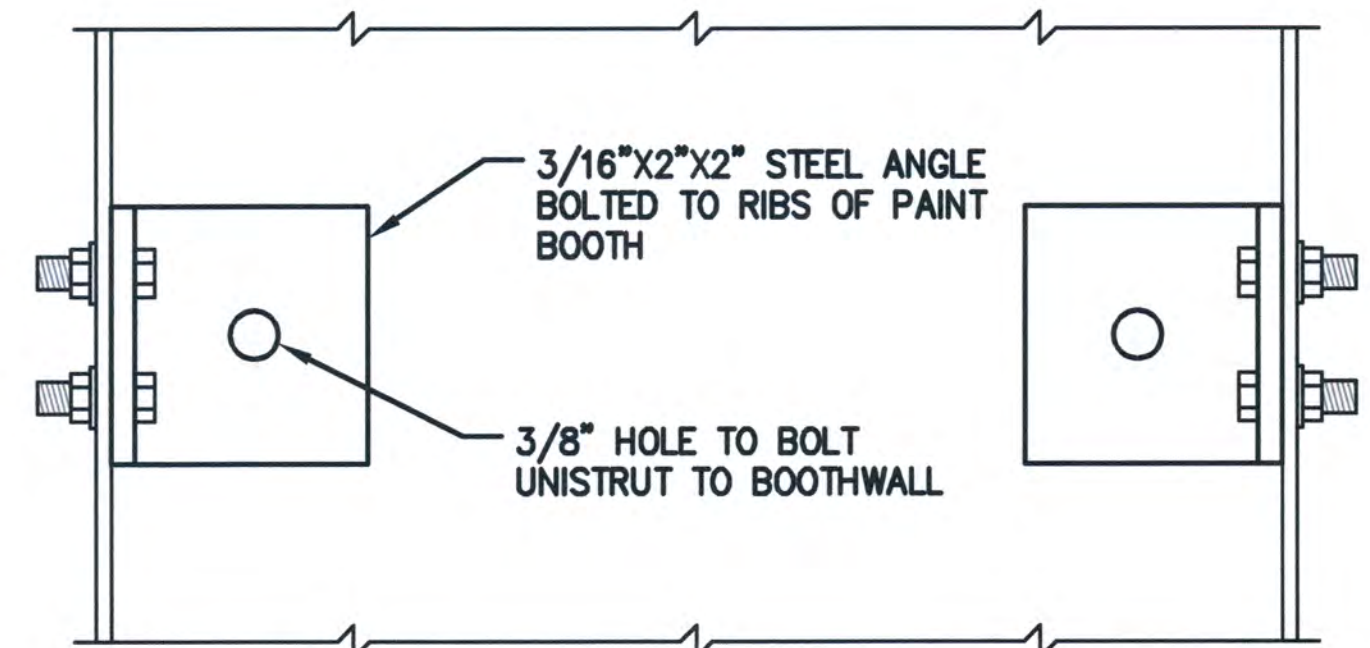
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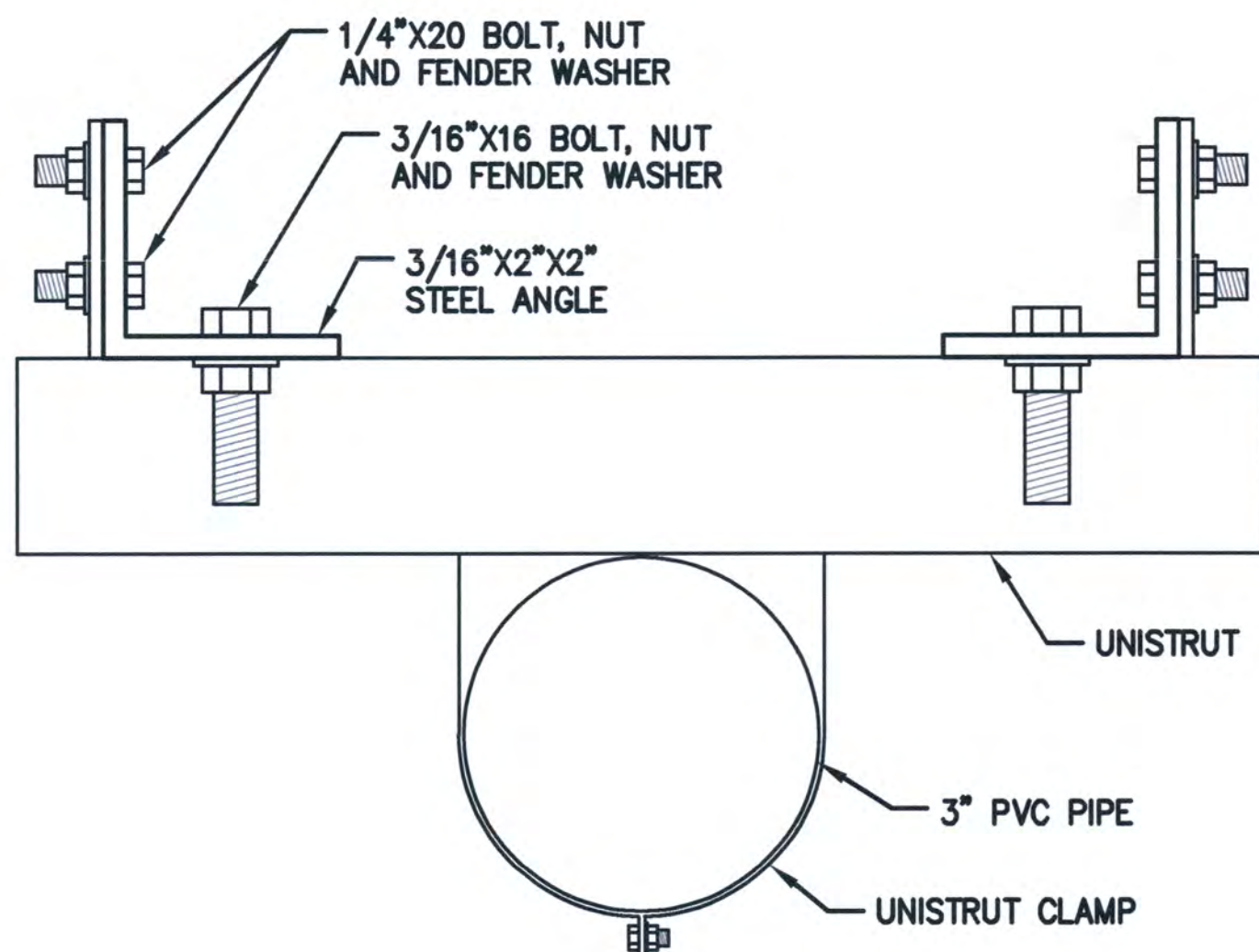
1
SUMP AND RISER
DETAIL - TYPICAL
SCALE: NTS

NOTES

- ALL RISERS SHALL INCLUDE A PERMANENT LABEL THAT PROVIDES THE FOLLOWING WARNING, OR SIMILAR TEXT, AS APPROVED BY THE ENGINEER:
NOTICE
FOUNDATION VENTILATION SYSTEM IS OPERATING. DO NOT ALTER OR DISCOUNT. FAN OPERATION MUST BE CONTINUOUS.
- RISER PROTECTION SHALL BE PROVIDED AS FOLLOWS:
 - FOR SUMP LOCATION W1, INSTALL A 3 FOOT TALL HEAVY DUTY WALL-MOUNTED PIPE AND DOWNSPOUT PROTECTOR, OMEGA INDUSTRIAL PRODUCTS OM3310, OR APPROVED EQUIVALENT.
 - FOR SUMP LOCATION W3, INSTALL A 3 FOOT TALL WALL-MOUNTED PIPE AND DOWNSPOUT PROTECTOR, OMEGA INDUSTRIAL PRODUCTS OM3306, OR APPROVED EQUIVALENT.
 - FOR SUMP LOCATIONS W2 AND E2, INSTALL A 3 FOOT TALL FLOOR-MOUNTED PIPE AND DOWNSPOUT OR CORNER PROTECTOR, OMEGA INDUSTRIAL PRODUCTS HEAVY DUTY CORNER GUARD, OR APPROVED EQUIVALENT.
 - FOR SUMP LOCATION E1, A RISER PROTECTOR IS NOT REQUIRED.
 - RISER PROTECTORS SHALL BE HIGH VISIBILITY TRAFFIC SAFETY YELLOW.



PLAN



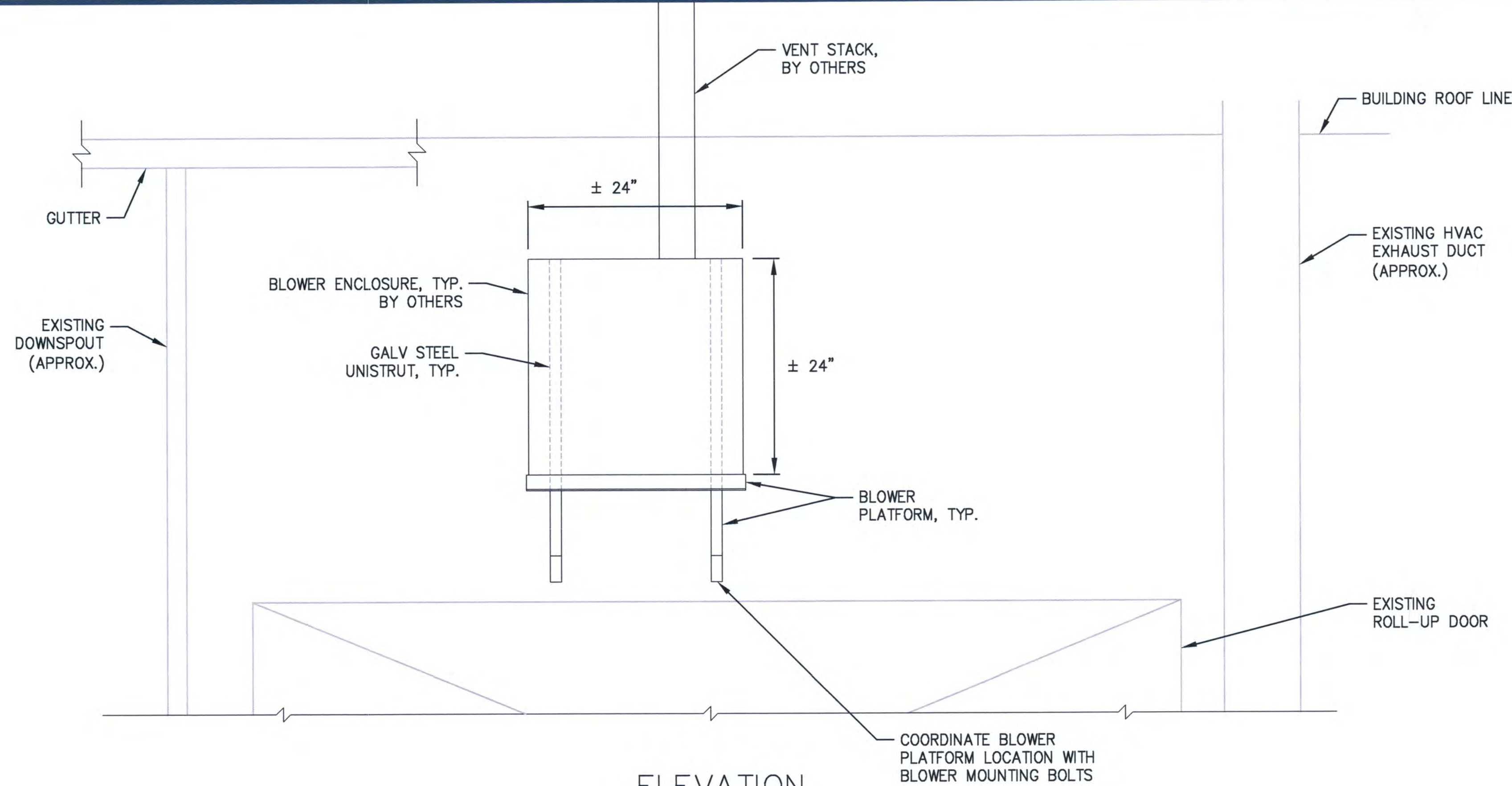
SECTION

2
PAINT BOOTH
RISER CLAMP
SCALE: NTS

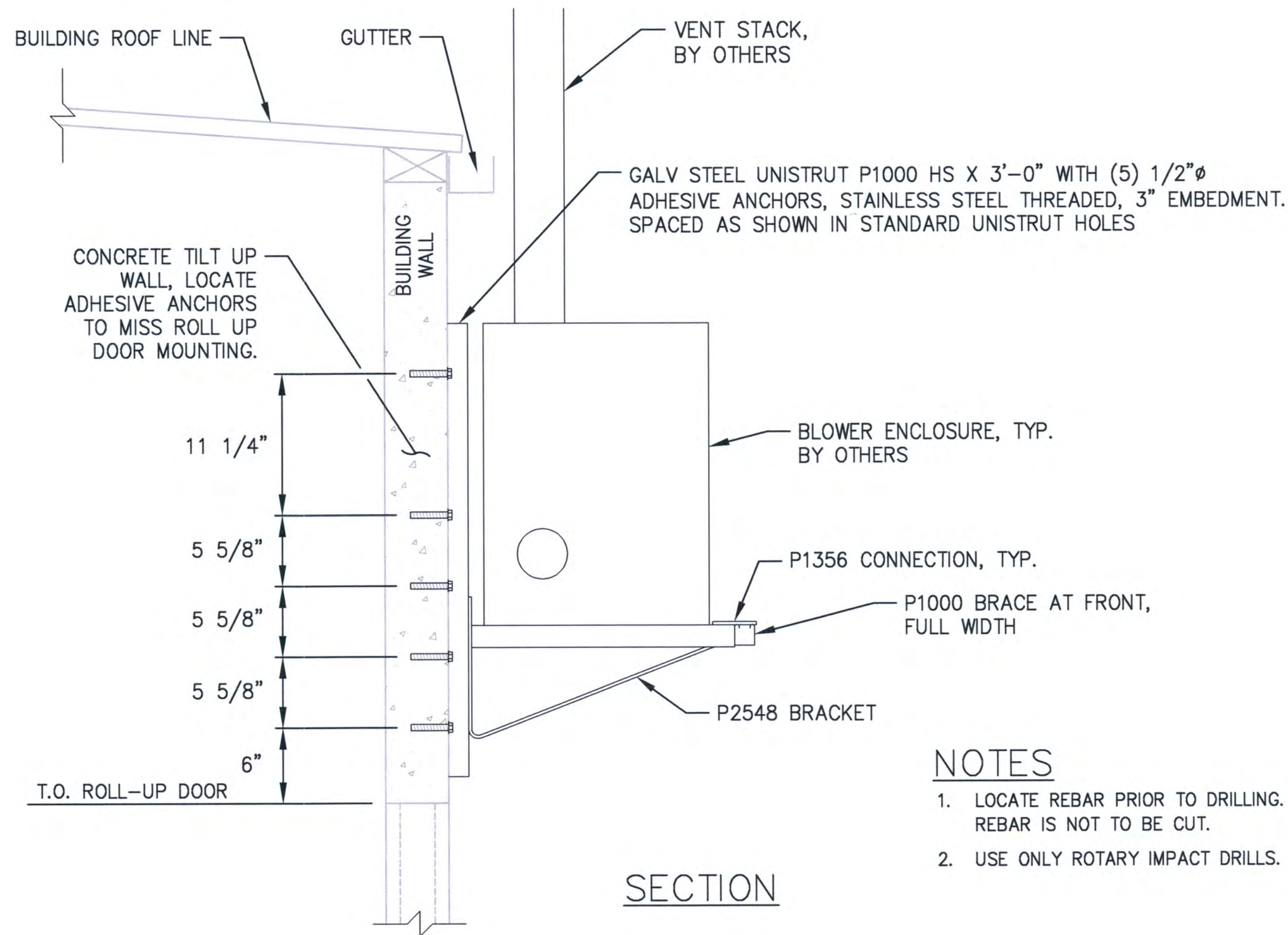
C3.1 SH # 12 OF # 14 CONT/CONS: 071522 M. ID: 101486.02 PHASE: BID SET	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM DETAILS				APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: 4/9/20	CHECKED BY: DATE:	DATE:	
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: Cdbryn Apr 12, 2021	PROJ. ENGR. DATE:	DATE:	DATE:	
	DAT-HRZ: WAB3-SF	VERT: MLLW 19.39' @ Tide 22 1933	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837	MARK:	REVISION:	BY:
	PARCEL: 40	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION			MARK:	REVISION:	BY:	DATE:

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ELEVATION

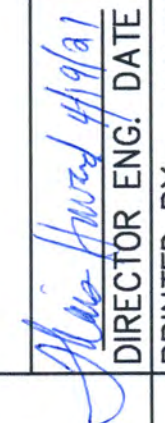


SECTION

NOTES

1. LOCATE REBAR PRIOR TO DRILLING. REBAR IS NOT TO BE CUT.
2. USE ONLY ROTARY IMPACT DRILLS.

3 BLOWER PLATFORM
C1.3 SCALE: NTS

C3.2 SH# 14 OF # 14 CONT/CONS: 071522 M. ID: 101486.02 PHASE: BID SET	PARCEL 40 - BUILDING 600 SUBSLAB DEPRESSURIZATION SYSTEM DETAILS				APPROVED:  DIRECTOR ENG. DATE: 4/9/21 PRINTED BY: cgreene PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		CHECKED BY: DATE: PROJ. ENGR: DATE: APR 12, 2021		CRETE CONSULTING, INC. mollett & nichol P.O. BOX 1837 TACOMA, WA 98401 (206) 835-5841		Part of Tacoma			
	TOWNSHIP: 21N		RANGE: 3E		SECTION: 27		MARK:		REVISION:		BY:		DATE:	
	DAT-HRZ: WA83-SF		VERT: MLLW 19.39' @ Tide 22 1933		DRAWING SCALE: AS NOTED		PARCEL: 40		APPR:		DATE:			
	PARCEL: 40		DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837									

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