

SEWER & AC WATER GROUP 793

SHEET INDEX

CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES, (I.E., 69 KV & HIGHER)
- LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- CITY FORCES, WHEN SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS & PLUGS AND CONNECTIONS.
- KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 402-UTILITIES.
- EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
- ALL ADVANCE METERING INFRASTRUCTURE (AM) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- FOR COORDINATION OF SHUTDOWN - UNDER THE CONTRACTOR'S RESPONSIBILITIES, INCLUDE THE FOLLOWING NOTE: FOR COORDINATION OF THE SHUTDOWN OF MAINS, PLEASE CONTACT THE FOLLOWING: TRANSMISSION MAINS (16 INCHES AND LARGER) JESUS RAMOS (619-527-7438) DISTRIBUTION MAINS (LESS THAN 16 INCHES) FREDDY PORTER (619-527-7539) WATER FACILITIES GREG CROSS (619-527-7460)
- FOR PVC PIPELINE ALIGNMENTS, PROVIDE A HOLIDAY FREE CORROSION PREVENTATIVE COATING AND LINING ON ALL BURIED DUCTILE IRON PIPE AND FITTINGS INCLUDING ALL BENDS, TEES, CROSSES, FLEX COUPLINGS, FLANGE BOLTS, AND VALVES PER CONTRACT SPECIFICATIONS. FOR METALLIC PIPELINE ALIGNMENTS, A CORROSION CONTROL DESIGN MUST BE SUBMITTED FOR REVIEW BEFORE INSTALLATION.
- WHEN JOINING TWO DISSIMILAR METALS (EX. DUCTILE IRON FITTING AND COPPER SERVICE LATERALS), A DIELECTRIC UNION MUST BE INSTALLED BETWEEN THE TWO IN ORDER TO PREVENT GALVANIC CORROSION. WAX TAPE UP TO AND INCLUDING THE DIELECTRIC UNION.

ABBREVIATIONS

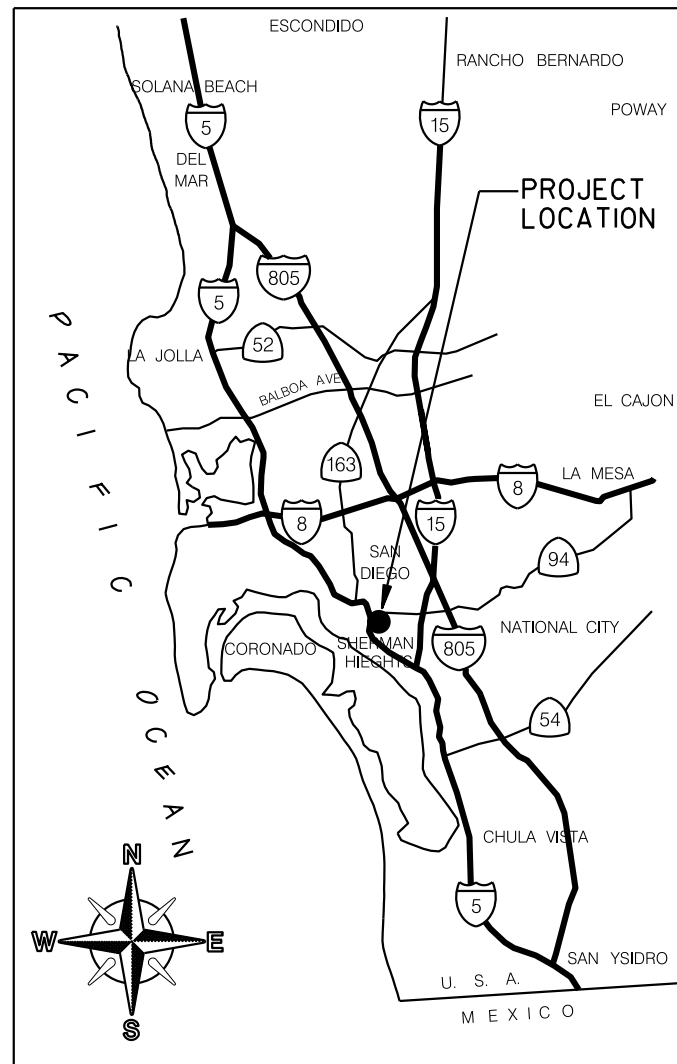
ABAND	ABANDON	IE	INVERT ELEVATION
ABAND'D	ABANDONED	LAT	LATERAL
AC	ASBESTOS CEMENT PIPE	LT	LEFT
AHD	AHEAD	MJ	MECHANICAL JOINT
ASSY	ASSEMBLY	MTS	SAN DIEGO METROPOLITAN
BFV	BUTTERFLY VALVE		TRANSIT SYSTEM
BK	BACK	MTD	MULTIPLE TELEPHONE DUCT
BTWN	BETWEEN	N/O	NORTH OF
CATV	CABLE TV	OVHD	OVER HEAD
CI	CAST IRON PIPE	PVC	POLYVINYL CHLORIDE
C	CENTER LINE	PROP	PROPOSED
COND	CONDUIT	PVT	PRIVATE
CONT	CONTINUED	RED	REDUCER
CONTR	CONTRACTOR	RT	RIGHT
DB	DIRECT BURIED	S	SURVEY LINE
DI	DUCTILE IRON	SD&AE	SAN DIEGO & ARIZONA EASTERN RAILROAD
EB	ENCASED BURIED	SDTI	SAN DIEGO TROLLEY INC.
EL, ELEV	ELEVATION	SO	STUB OUT
ELEC	ELECTRIC	S/O	SOUTH OF
EX, EXIST	EXISTING	SWR	SEWER
E/O	EAST OF	TEL	TELEPHONE
F	FLANGE	UNK	UNKNOWN
FH	FIRE HYDRANT	VC	VITRIFIED CLAY PIPE
FS	FIRE SERVICE	WM	WATER METER
GV	GATE VALVE	WTR	WATER
HDPE	HIGH-DENSITY POLYETHYLENE	W/O	WEST OF
HP	HIGH PRESSURE		

FIELD DATA

TOPO SOURCE: CITY OF SAN DIEGO WBS: B00394, B15070
BENCHMARK: NEBP 21ST ST AND IMPERIAL ST, ELEV. 61.0162 MSL,
BASED ON NGVD 29 FEET PER CITY OF SAN DIEGO
BENCH BOOK.

FIELD NOTES: R, BROOKS, 196-1722, W.O. B-00394/B-15070
DATUM: MEAN SEA LEVEL
STREETS REQUIRING 12" TRENCH CAP:
•STREET NAMES•

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET				
2	G-2	KEY MAP				
3	C-1	19TH STREET	COMMERCIAL STREET TO N/O IMPERIAL AVENUE	10	-	550
4	C-2	19TH STREET	N/O IMPERIAL AVENUE TO N/O K STREET	10	-	700
5	C-3	19TH STREET	S/O J STREET TO ISLAND STREET	10	-	642.85
6	C-4	20TH STREET	COMMERCIAL STREET TO L STREET	10	-	16.12
7	C-5	20TH STREET	COMMERCIAL STREET TO N/O IMPERIAL AVE	8	-	635.20
8	C-6	20TH STREET	S/O L STREET TO J STREET	8	-	768.38
9	C-7	21ST STREET	19TH STREET TO E/O 19TH STREET	8	-	175
10	C-8	21ST STREET	COMMERCIAL STREET TO N/O IMPERIAL AVE	8	-	650.36
11	C-9	22ND STREET	S/O L STREET TO J STREET	8	-	422.09
12	C-10	22ND STREET	COMMERCIAL STREET TO N/O IMPERIAL AVE	8	-	657.82
13	C-11	IMPERIAL AVENUE	22ND STREET TO 24TH STREET	8	-	425.85
14	C-12	ALLEY BLOCK 46	22ND STREET TO E/O 22ND STREET	8	-	427.65
15	C-13	L STREET	22ND STREET TO 24TH STREET	8	-	155.54
16	C-14	24TH STREET	COMMERCIAL STREET TO L STREET	12	-	169.15
17	C-15	24TH STREET	COMMERCIAL STREET TO L STREET	10	-	379.87
18	C-16	24TH STREET	COMMERCIAL STREET TO L STREET	8	-	190.74
19	C-17	ALLEY BLOCK 14	24TH STREET TO 25TH STREET	8	-	607.36
20	C-18	25TH STREET	COMMERCIAL STREET TO L STREET	12	-	376.16
21	C-19	25TH STREET	COMMERCIAL STREET TO L STREET	10	-	364.10
22	C-20	ALLEY BLOCK 13	N/O IMPERIAL AVE- 24TH STREET TO 25TH STREET	8	-	592.06
23	C-21	IMPERIAL AVENUE	25TH STREET TO W/O 26TH STREET	8	-	199.94
24	C-22	ALLEY BLOCK 18	25TH STREET TO 26TH STREET	8	-	380
25	C-23	ALLEY BLOCKS 18 AND 19	E/O 25TH STREET- IMPERIAL AVENUE TO K STREET	8	-	676.23
26	C-24	STREET RESURFACING PLAN		TOTAL	SEWER	10,583.04
27	C-25	CURB RAMP LOCATION		TOTAL	WATER	1707.12
28	C-26	CURB RAMP LOCATION				
29	C-27	WORK BY CITY FORCES				
30	C-28	SURVEY MONUMENT SHEET				
31	C-29	CHLORINATION DISCHARGE LOCATIONS				
32	C-30	STRIPINGS				
33	C-31	SEWER REPLUMB				
34	C-32	BACKWATER EXHIBIT				
35	C-33	BACKWATER EXHIBIT				
36	C-34	BACKWATER EXHIBIT				
37	C-35	BACKWATER EXHIBIT				
38	C-36	BACKWATER EXHIBIT				
39	C-37	BACKWATER EXHIBIT				
40	C-38	BACKWATER EXHIBIT				
41	C-39	BACKWATER EXHIBIT				
42	C-40	BACKWATER EXHIBIT				
43	C-41	BACKWATER EXHIBIT				
44	C-42	BACKWATER EXHIBIT				
45	C-43	BACKWATER EXHIBIT				
46	C-44	BACKWATER EXHIBIT				
47	C-45	BACKWATER EXHIBIT				
48	C-46	BACKWATER EXHIBIT				
49	C-47	BACKWATER EXHIBIT				
50	C-48	BACKWATER EXHIBIT				
51	C-49	BACKWATER EXHIBIT				
52	C-50	BACKWATER EXHIBIT				
53	C-51	BACKWATER EXHIBIT				
54	C-52	BACKWATER EXHIBIT				
55	C-53	BACKWATER EXHIBIT				
56	C-54	BACKWATER EXHIBIT				
57	C-55	MTS STANDARD CONSTRUCTION NOTES / RR RELATON SPEC FOR SD&AE				
58	C-56	EXCAVATION ZONE DETAIL				
59	C-57	EXCAVATION ZONE DETAIL				



VICINITY MAP
NOT TO SCALE

DISCIPLINE CODE

- G GENERAL
- C CIVIL
- TC TRAFFIC CONTROL

EXISTING STRUCTURES

EX WATER MAIN & VALVES	-----●-----
EX WATER METER	-----□-----
EX FIRE HYDRANT	○-----●
EX SEWER MAIN & MANHOLES	-----○-----
EX DRAINS	=====
EX PAVEMENT (PROFILE)	////
BOUNDARY	-----
EX GROUND LINE (PROFILE)	////
EX TRAFFIC SIGNAL	⊕ TCS
EX STREET LIGHT	⊕ SL
GAS MAIN	-----T-----C-----
ELEC. COND., TEL. COND., CATV	---E---T---C---
RAILROAD, TROLLEY TRACKS	
ROW	-----
TROLLEY CATENARY POLES	●

DECLARATION OF RESPONSIBLE CHARGE

* I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

WORK TO BE DONE

CONSTRUCTION OF SEWER AND AC WATER GROUP 793 CONSISTS OF THE INSTALLATION OF 8", 10", AND 12" SEWER MAINS, SEWER LATERALS, MANHOLES & THE INSTALLATION OF 8" AND 12" WATER MAINS, WATER SERVICES, VALVES, FIRE HYDRANTS & MARKERS, CURB RAMPS, TRAFFIC CONTROL, TRENCH RESURFACING, PAVEMENT RESURFACING, AND ALL OTHER WORK AND APPURTENANCES IN ACCORDANCE WITH THESE SPECIFICATIONS AND DRAWING NUMBERED 41208-01-D THROUGH 41208-59-D.

LEGEND

IMPROVEMENTS	REFERENCE	SYMBOL
TRENCH RESURFACING	SDG-107, SDG-108	
SEWER MAIN	SDS-101, SDS-110 (TYPE C)	
4" SEWER LATERAL WITH C.O. UNLESS OTHERWISE SPECIFIED	SDS-102, SDS-103, SDS-104, SDS-105, SDS-110 (TYPE C), SDS-118	
REPLUMB SEWER LATERAL WITH C.O.	SDS-102, SDS-103, SDS-104, SDS-105, SDS-110 (TYPE C), SDS-118	
CONCRETE PROTECTION FOR EXIST SEWER PIPE	SDS-116	
CONCRETE ENCASEMENT	SDS-112	
ABANDON EX MANHOLE	SM-08	
SLURRY FILL ABANDONED SEWER MAIN	SEE PLANS & SPECS	
CUTTING AND PLUGGING ABANDONED WATER MAIN	WP-03	
SURVEY MONUMENT	M-10, M-10A, M-10B	
WATER MAIN & APPURTENANCES	SDM-105, SDW-110, SDW-151, SDW-161	
VALVES WITH CAPS AND WELLS	SDW-109, SDW-152, SDW-153, WV-05	
6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT	SDM-105, SDW-104, SDW-109, SDW-152, SDW-153	
1" WATER SERVICE UNLESS OTHERWISE SPECIFIED	SDM-105, SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDW-143, SDW-150, WS-03	
BLOW-OFF ASSEMBLY	SDM-105, SDW-106, SDW-143, SDW-144, SDW-145, SDW-146, WB-05,	
AIR & VACUUM VALVE	SDM-105, SDW-117, SDW-158, SDW-159, SDW-160	
HIGHLINING BY CONTRACTOR	SDW-170, SDW-171, SDW-172, SDW-173, SDW-174 IF APPLICABLE	

FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP AND TRAFFIC CONTROL SHEETS.

CONSTRUCTION STORM WATER PROTECTION NOTES

- TOTAL SITE DISTURBANCE AREA (ACRES) 0.85
HYDROLOGIC UNIT / WATERSHED PUEBLO SAN DIEGO / SAN DIEGO BAY
HYDROLOGIC SUBAREA NAME & NO. CHOLLAS / 908.22
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
☒ WPCP THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
☐ SWPPP THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ
TRADITIONAL: RISK LEVEL 1 ☐ 2 ☐ 3 ☐
LUP: RISK TYPE 1 ☐ 2 ☐ 3 ☐
- CONSTRUCTION SITE PRIORITY
☐ ASBS ☐ HIGH ☐ MEDIUM ☒ LOW

G-1

PLANS FOR THE CONSTRUCTION OF SEWER & AC WATER GROUP 793 COVER SHEET

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

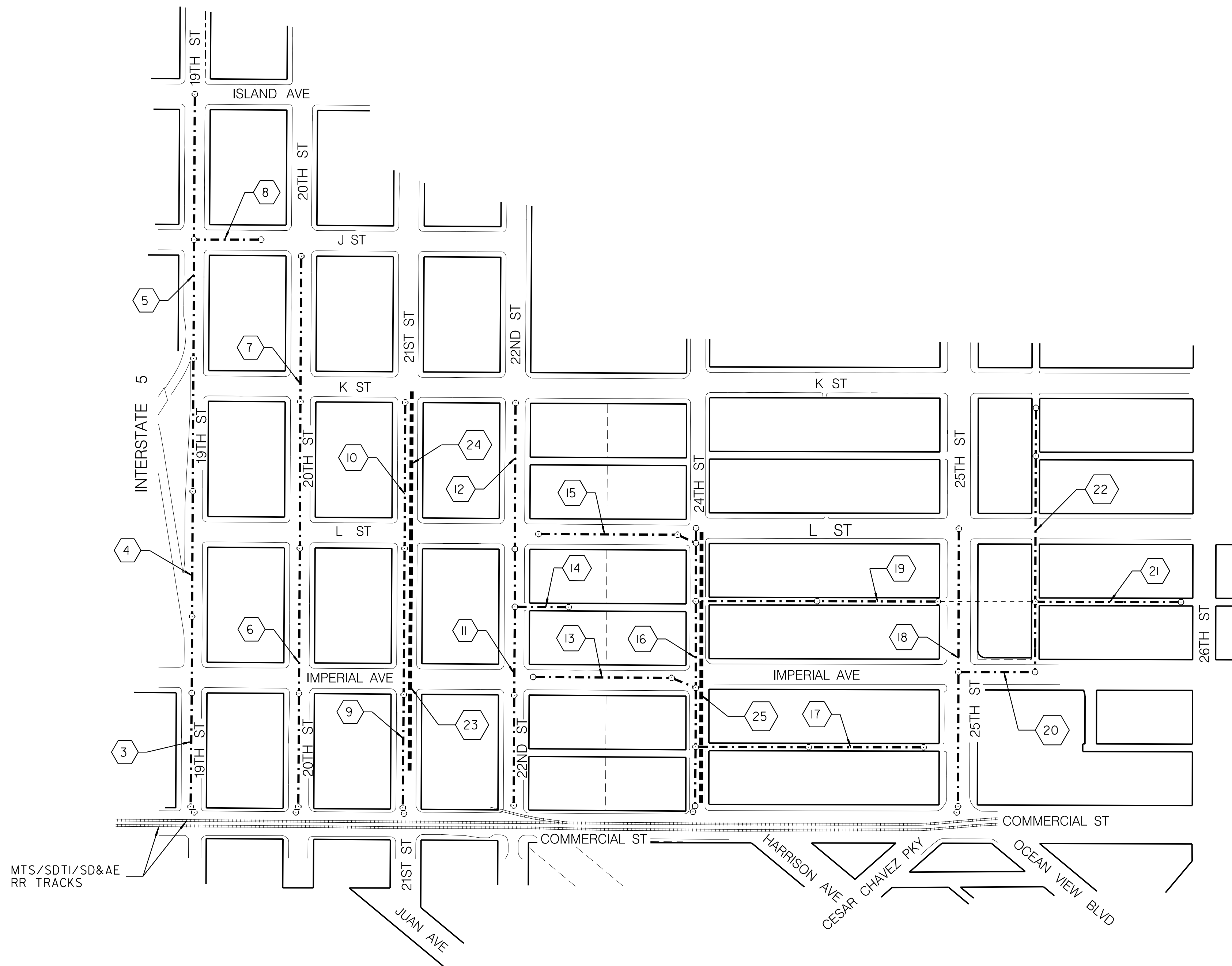
The City of
SAN DIEGO Public Utilities

IP_PWP:d0157553\Group 793 Sewer and Water.dgn

06-JUL-2020 15:11

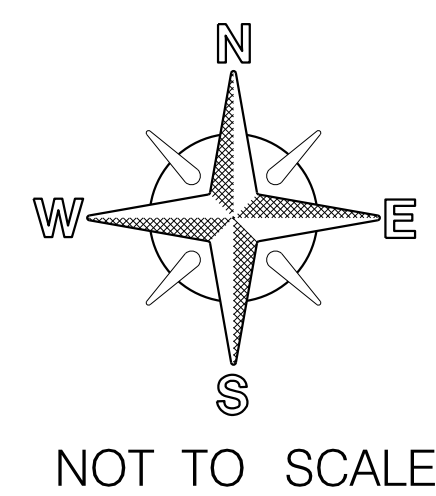
BPiromari

100% DESIGN



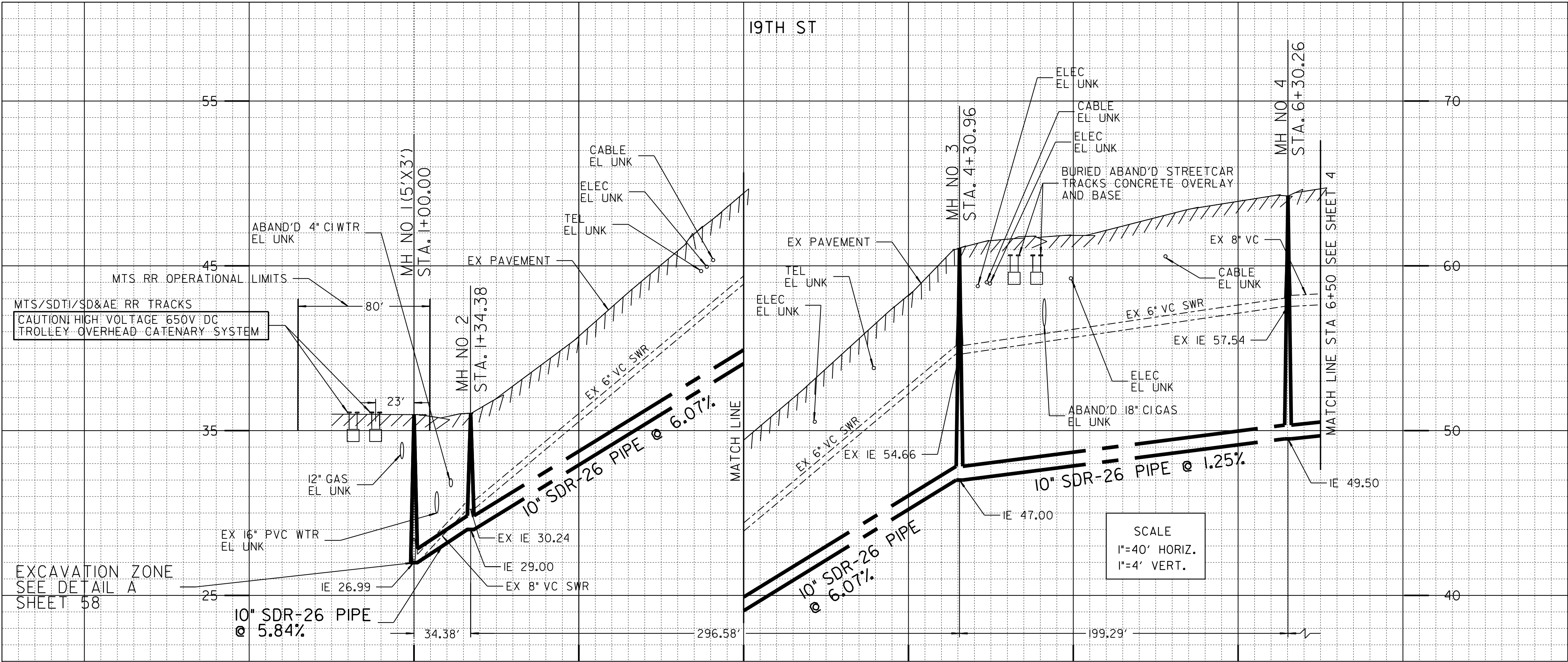
- LEGEND:**
- PROPOSED WATER MAIN
 - ===== ABANDON WATER MAIN
 - .-.-.-.- PROPOSED SEWER MAIN
 - ABANDON SEWER MAIN
 - ===== MTS/SDTI/SD&AE RR TRACKS
 - 1 SHEET NUMBER

PROPOSED WATER & SEWER KEYMAP



G-2

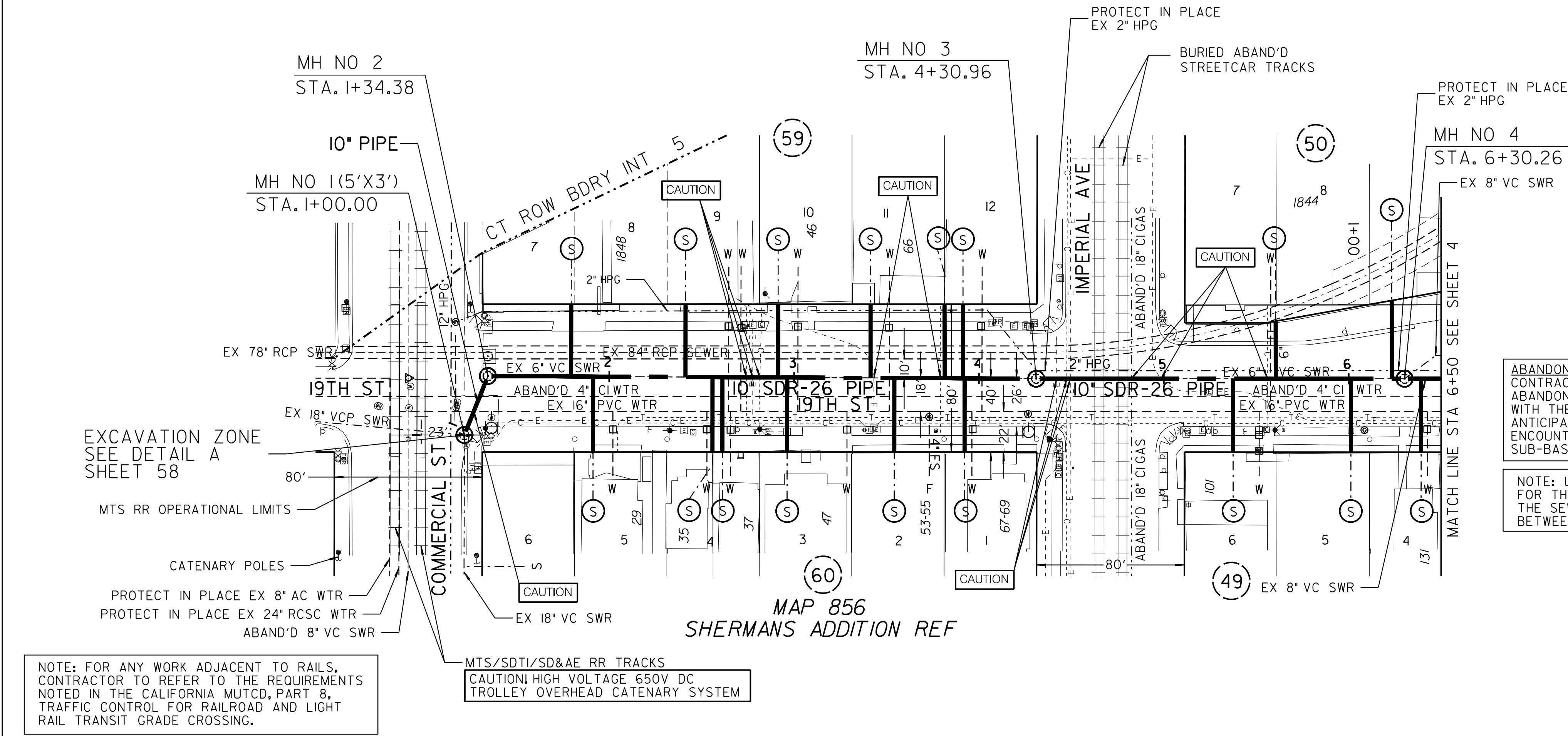
SEWER & AC WATER GROUP 793 KEY MAP				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 2 OF 57 SHEETS		WATER WBS B-15070 SEWER WBS B-00394		
APPROVED: FOR CITY ENGINEER PRINT: DGE NAME SHEILA BOSE DATE RCE# C59403		SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER		
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED	DATE	FILMED
		194-1719, 198-1719 CCS27 COORDINATE		
		1834-6279, 1838-6279 CCS83 COORDINATE		
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED		41208-02-D



ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 2+40	STA. 6+50	410
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: 19TH ST-COMMERCIAL ST TO ISLAND AVE					
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA DIST/LENGTH
POB	1+00.00	1837593.36	6285855.00		
PI	1+34.38	1837606.22	6285823.13	STRAIGHT N 67° 56' 23" W	D = 34.38
PI	4+30.96	1837902.78	6285826.07	STRAIGHT N 0° 34' 04" E	D = 296.58
PI	6+30.26	1838102.07	6285827.09	STRAIGHT N 0° 17' 32" E	D = 199.29

MONITORING SHALL BE CONSISTENT WITH SAN DIEGO MUNICIPAL CODE SECTION 142.0151, PALEONTOLOGICAL RESOURCES REQUIREMENTS FOR GRADING ACTIVITIES.

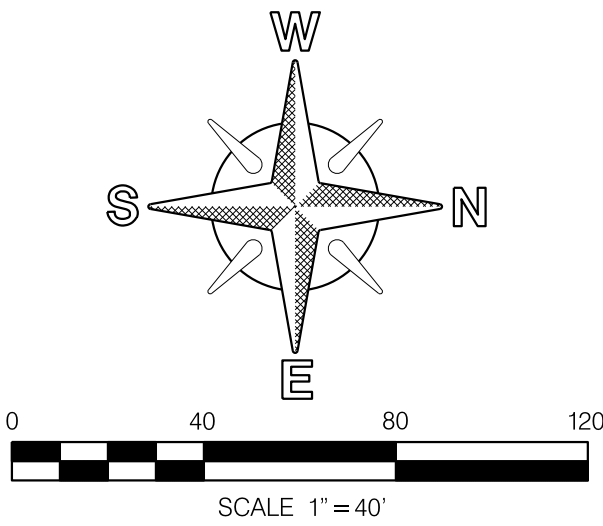


REFERENCE:
WATER: 34696-02-D, 11388-8-D, 3743-W, 9916-10, 13503-15
SEWER: 200-L, 11060-6-D, 14031-D, 211987-D
STORM DRAIN: N/A
GAS: SDGE 15952-118720
ELECTRIC: SDGE 15952-118720
CABLE TV/ TELEPHONE: COX- FILE NO 26436
SHERMAN 8G 20SD JOB 1, AT&T-BMB 1984
IMPROVEMENTS: SD ELECTRIC RAILWAYS CO, SHEETS 10 AND 11
100' SCALE/FIELD BOOK: 196-1722, 198-1722, G235
THOMAS BROS.: 1289C4
HGL: 390

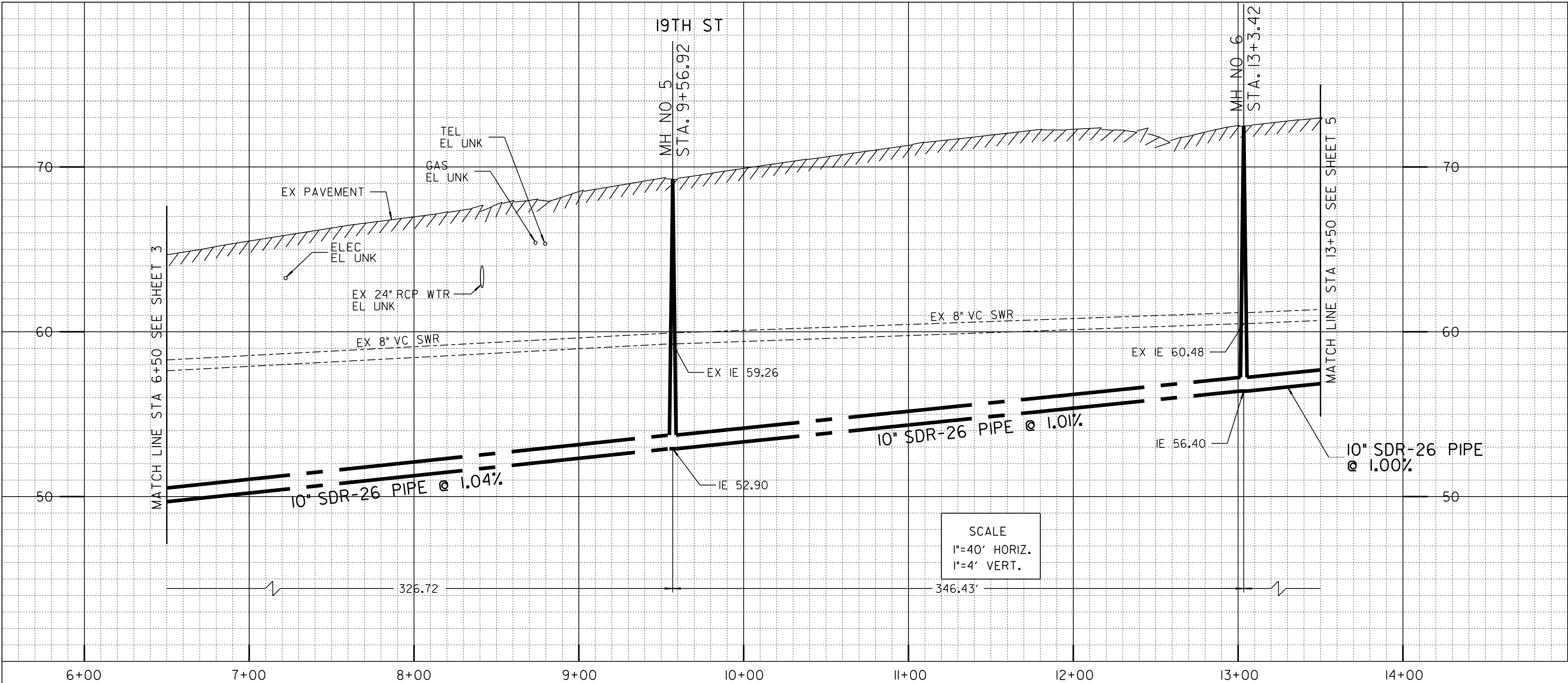
RETIREMENTS:
6" - VC - 515.62' - 1969
8" - VC - 34.38' - 1983
MH - 4X3 - 1- 1963
MH - 4X3 - 1- 1969
MH - 4X3 - 1- 1983
MH - 4X3 - 1- UNK
4" - LATERAL - 16 - UNK - UNK
6" - LATERAL - 1- UNK - UNK

ABANDONED BURIED STREETCAR TRACKS:
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.

NOTE: USE THE SAME PIPE MATERIAL
FOR THE 16 SEWER LATERALS AS DEEP AS
THE SEWER MAIN. THEY ARE CONNECTED
BETWEEN MH 2 TO MH 4 (SDR-26 PVC).



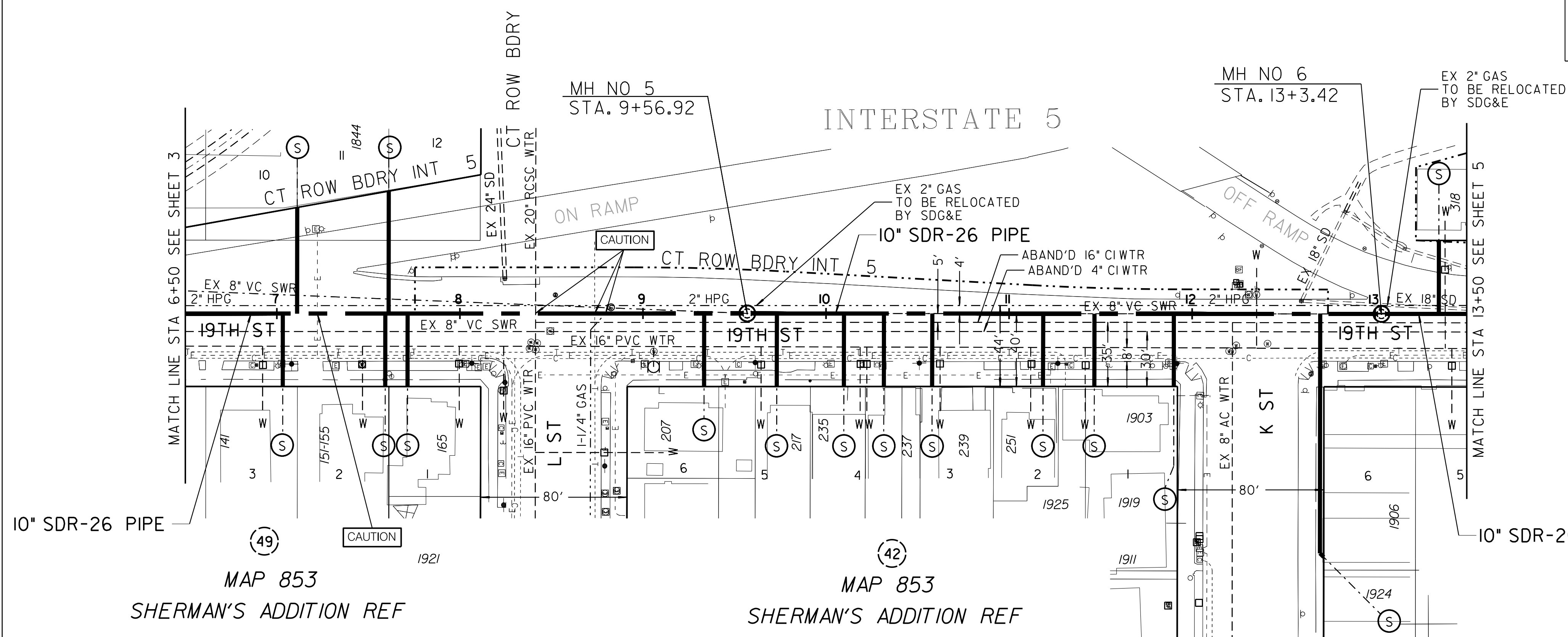
SEWER & AC WATER GROUP 793		C-1	
19TH STREET			
COMMERCIAL STREET TO NO IMPERIAL AVENUE			
CITY OF SAN DIEGO, CALIFORNIA		WATER WBS B-15070	
PUBLIC WORKS DEPARTMENT		SEWER WBS B-00394	
SHEET 3 OF 57 SHEETS			
APPROVED: FOR CITY ENGINEER SHEILA BOSE		DATE C59403	
PRINTED NAME		PCE#	
SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER		CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
DESCRIPTION ORIGINAL		BY BP/DC	
APPROVED		DATE	
FILMED			
194-1719		CCS27 COORDINATE	
1834-6279		CCS83 COORDINATE	
41208-03-D			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	



ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 6+50	STA. 13+50	700
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: 19TH ST-COMMERCIAL ST TO ISLAND AVE						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
PI	9+56.92	1838428.74	6285828.58	STRAIGHT NO° 15'41" E		D = 326.67
PI	13+03.42	1838775.23	6285830.63	STRAIGHT NO° 20'22" E		D = 346.50

MONITORING SHALL BE CONSISTENT WITH SAN DIEGO MUNICIPAL CODE SECTION 142.015, PALEONTOLOGICAL RESOURCES REQUIREMENTS FOR GRADING ACTIVITIES.



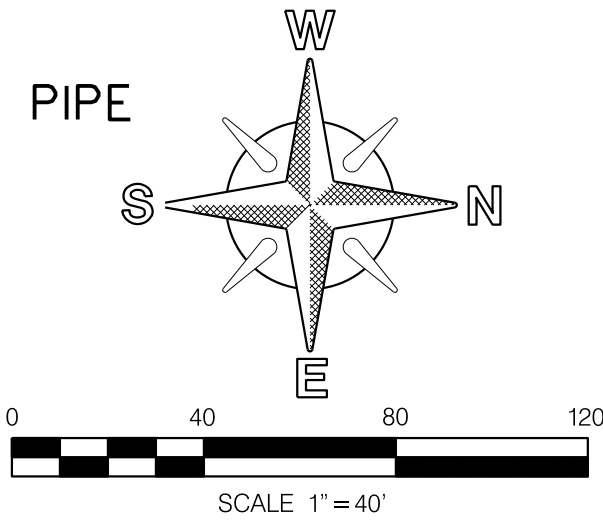
NOTE: USE THE SAME PIPE MATERIAL FOR THE 15 SEWER LATERALS AS DEEP AS THE SEWER MAIN. THEY ARE CONNECTED BETWEEN MH 4 TO MH 6 (SDR-26 PVC).

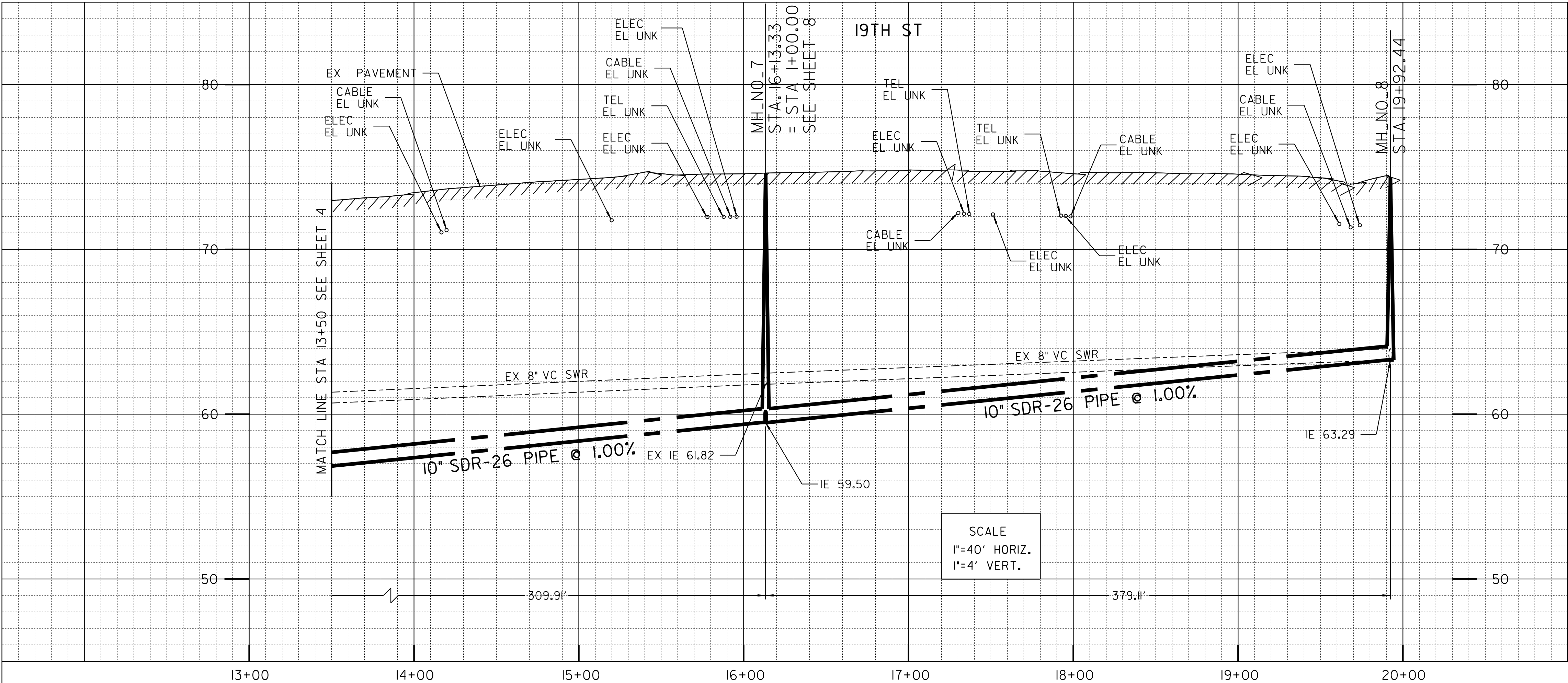
REFERENCE:
WATER: 6401-L, 14605-6-D, 34696-03-D, 9916-8
SEWER: 14031-2-D, 14031-10-D
STORM DRAIN: 11331-4-D
GAS: SDGE 15845-118725, 15945-118730, SDGE 15952-118725, 15952-118730
ELECTRIC: 15945-118725, 15945-118730, 15952-118725, 15952-118730
CABLE TV/ TELEPHONE: COX- FILE NO 26436
SHERMAN 8G 20SD JOB 1, AT&T-BMB 1984
IMPROVEMENTS:
100' SCALE/FIELD BOOK: 196-1722, 198-1722, G22S
THOMAS BROS.: 1289C4
HGL: 390

RETIREMENTS:
8" - VC - 346.50' - 1959
8" - VC - 353.50' - 1969
MH - 4X3 - 2 - 1959
4" - LATERAL - 15 - UNK - UNK

C-2

SEWER & AC WATER GROUP 793	
19TH STREET	
NO IMPERIAL AVENUE TO NO K STREET	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 57 SHEETS	
WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT: DATE NAME RCE#	DATE C59403 SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY BP/DC
APPROVED	DATE
FILED	
194-1719, 198-1719 CCS27 COORDINATE	
1834-6279, 1838-6279 CCS83 COORDINATE	
41208-04-D	
CONTRACTOR _____ DATE STARTED _____ INSPECTOR _____ DATE COMPLETED _____	

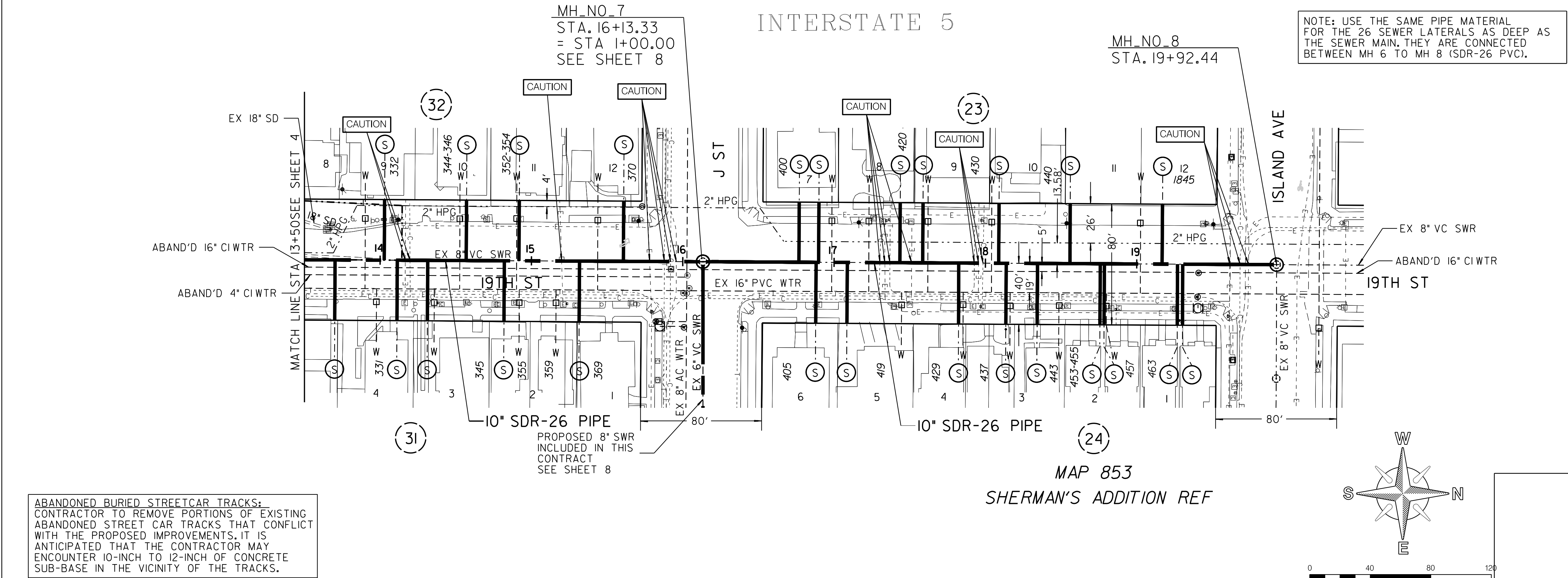




ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 13+50	STA. 19+92.67	642.67
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: 19TH ST-COMMERCIAL ST TO ISLAND AVE						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
PI	16+13.33	1839085.13	6285832.15	STRAIGHT N 0° 16' 50" E		D = 309.91
POE	19+92.44	1839464.24	6285834.09	STRAIGHT N 0° 7' 37" E		D = 379.11

MONITORING SHALL BE CONSISTENT WITH SAN DIEGO MUNICIPAL CODE SECTION 142.0151, PALEONTOLOGICAL RESOURCES REQUIREMENTS FOR GRADING ACTIVITIES.



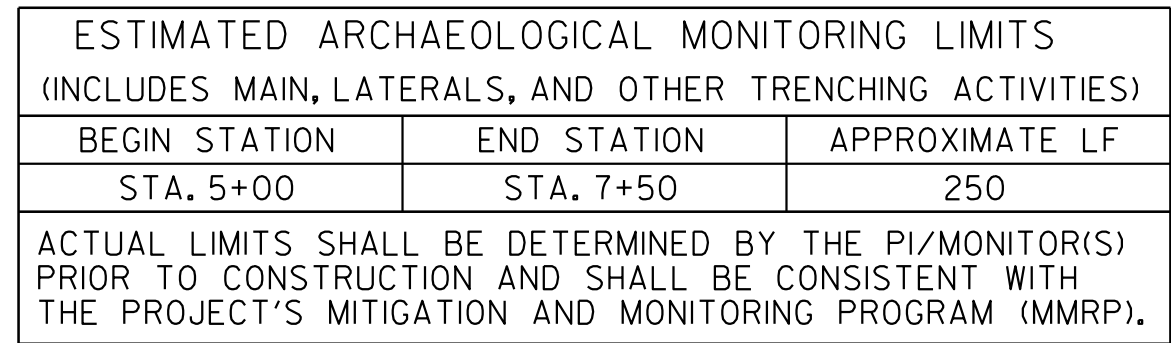
REFERENCE:
WATER: 14605-5-D, 34696-04-D
SEWER: 7757-ED, 14031-3-D, 14031-10-D
STORM DRAIN: 11331-4-D
GAS: SDGE 15945-118730, 15945-118735
15952-118730, 15952-118735
ELECTRIC: SDGE 15945-118730, 15945-118735
15952-118730, 15952-118735
CABLE TV/ TELEPHONE: COX- FILE NO 26436
SHERMAN 8G 20SD JOB 1, AT&T-BMB 1984
IMPROVEMENTS:
100' SCALE/FIELD BOOK: 196-1722, 198-1722, G22S
THOMAS BROS.: 1289C4
HGL: 390

RETIREMENTS:
8" - VC - 700.43' - 1969
MH - 4X3 - 2 - 1969
4" - LATERAL - 25 - 1960

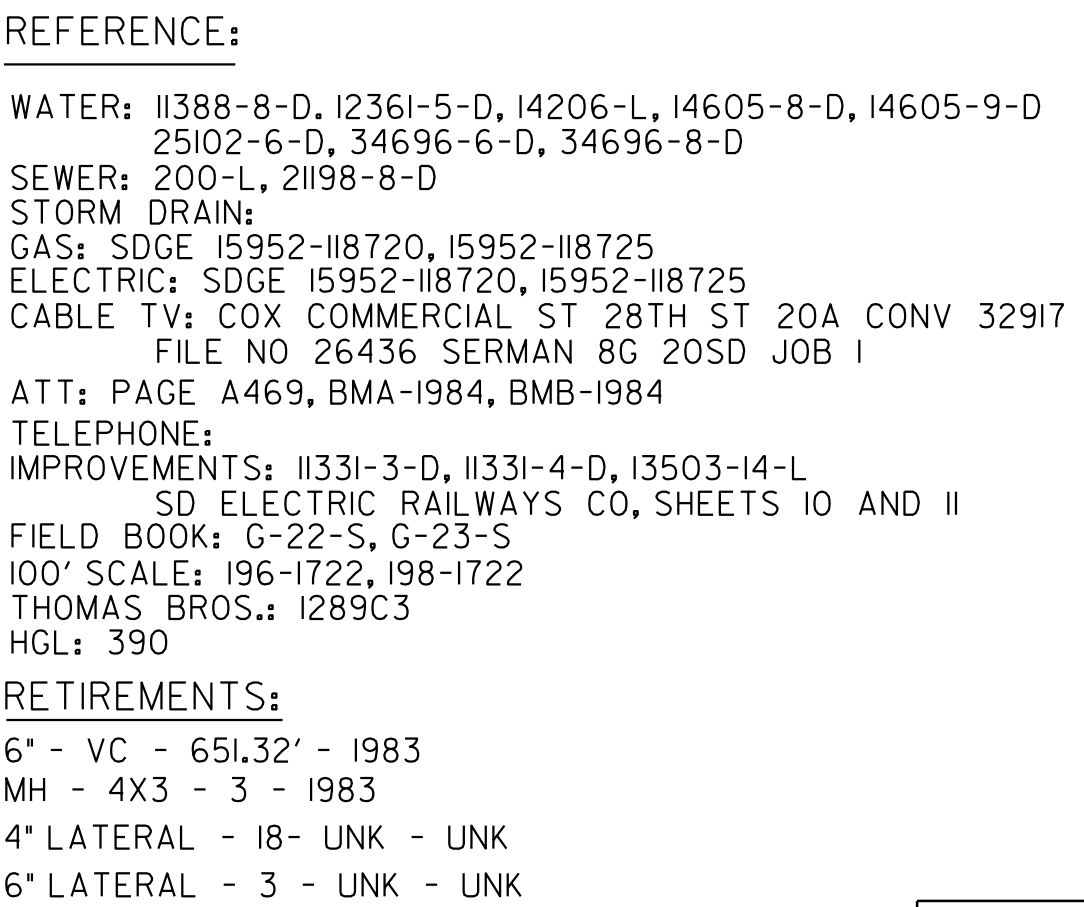
C-3

SEWER & AC WATER GROUP 793	
19TH STREET	
SO J STREET TO ISLAND AVENUE	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 5 OF 57 SHEETS	
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DGE NAME	DATE C59403 RCE#
DESCRIPTION ORIGINAL	BY BP/DC
APPROVED	DATE
FILMED	
DATE STARTED DATE COMPLETED	
WATER WBS B-15070 SEWER WBS B-00394 SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER 198-1719 CCS27 COORDINATE 1838-6279 CCS83 COORDINATE 41208-05-D	

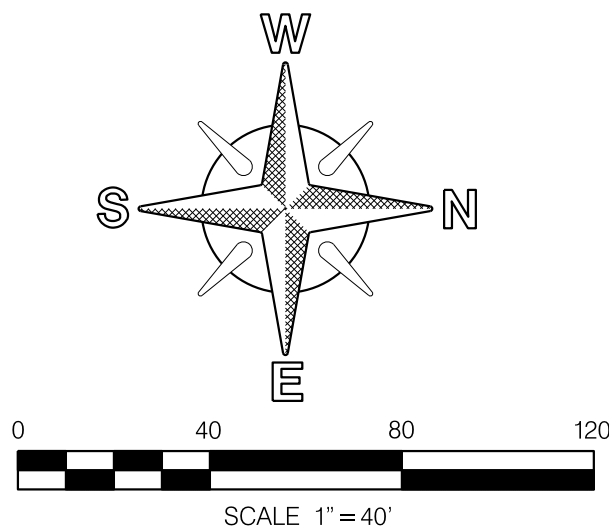
ABANDONED BURIED STREETCAR TRACKS:
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.



POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837591.56	6286097.71	STRAIGHT	N0° 23'5"11"E	D = 16.12
PI	1+16.12	1837606.37	6286104.08	STRAIGHT	N0° 10'00" E	D = 295.26
PI	4+11.38	1837901.63	6286104.94	STRAIGHT	N0° 17'11" E	D = 378.44

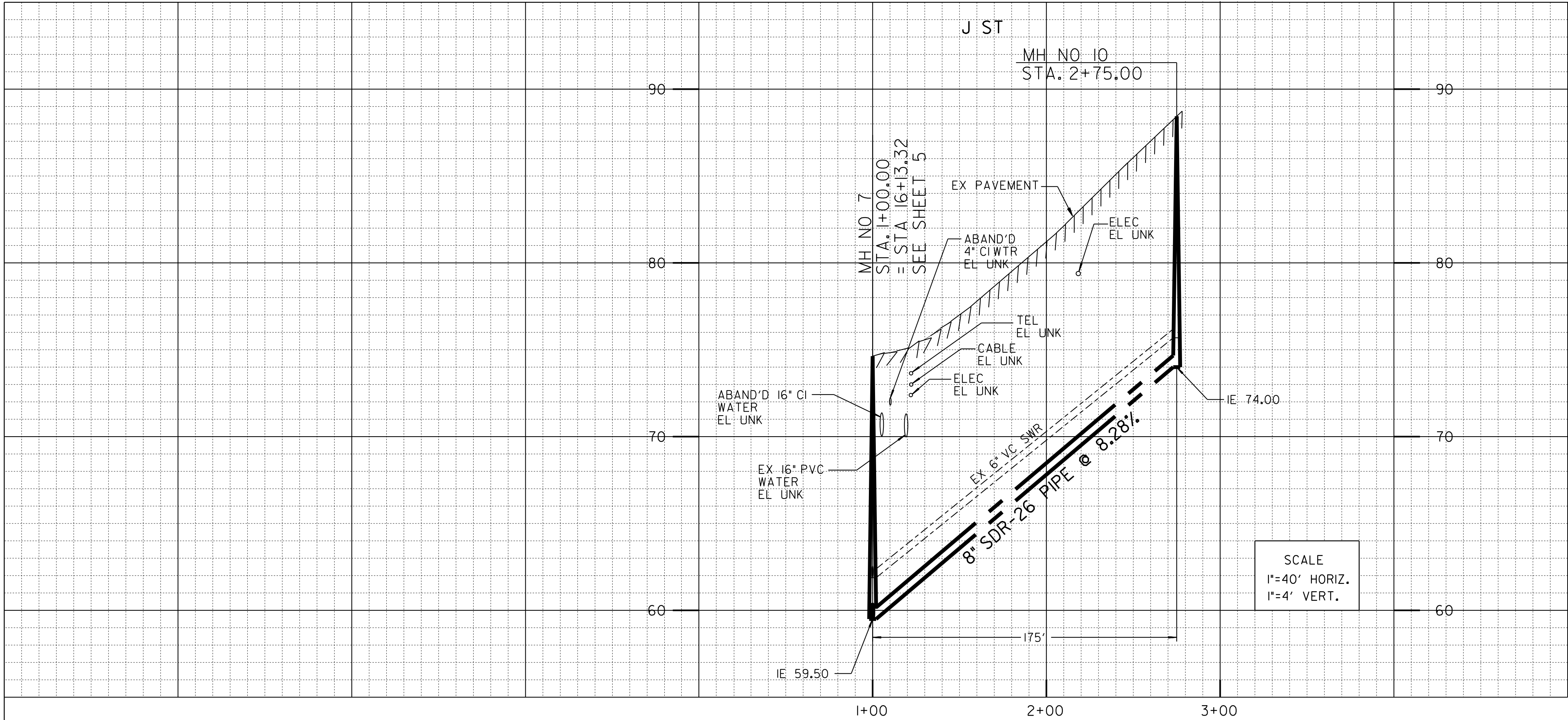


C-4



SEWER & AC WATER GROUP 793 20TH STREET COMMERCIAL STREET TO NO IMPERIAL STREET					
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 6 OF 57 SHEETS					WATER B-15070 WBS SEWER B-00394 WBS
APPROVED: _____ DATE _____ FOR CITY ENGINEER _____ SHELA BOSE _____ C59403 PRINT JOB NAME _____ RCE# _____					SUBMITTED BY: _____ ELHAM LOTFI PROJECT MANAGER CHECKED BY: _____ BARAZZ PIROMARI PROJECT ENGINEER
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	BP/DC				
DATE STARTED _____ DATE COMPLETED _____					194-1719 CCS27 COORDINATE 1834-6273 CCS803 COORDINATE
					41208-06-D

100% DESIGN

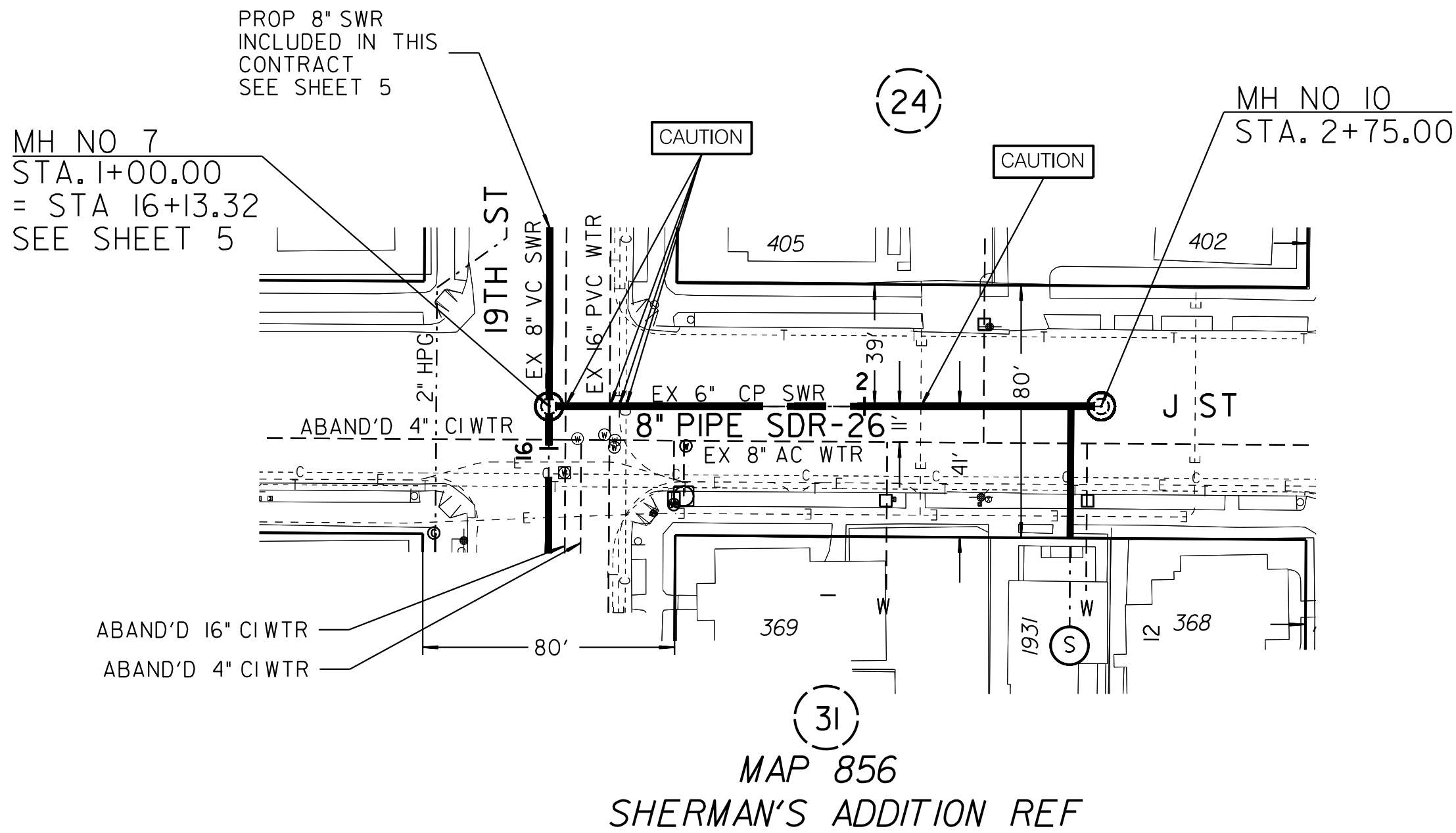


ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 2+75	175
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

NOTE: USE THE SAME PIPE MATERIAL FOR THE 1
SEWER LATERAL AS DEEP AS THE SEWER MAIN. THEY ARE
CONNECTED BETWEEN MH 7 TO MH 10 (SDR-26 PVC).

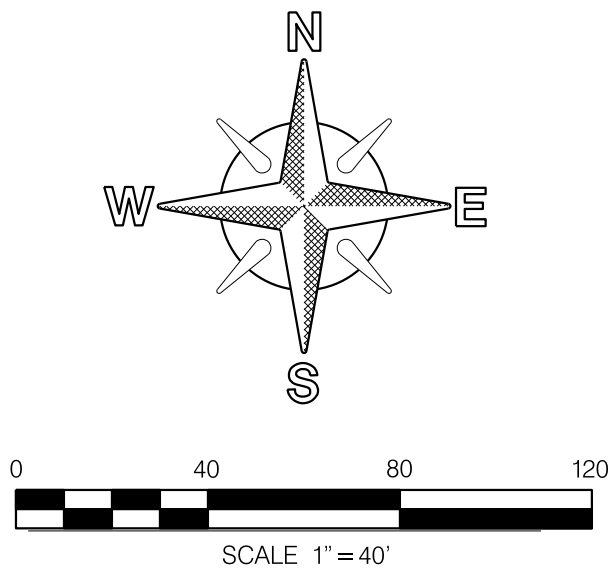
ALIGNMENT: J ST- BTWN 19TH ST TO W/O 20TH ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1839085.13	6285832.15	STRAIGHT	S90° 00'00"E	D=175.00
POE	2+75.00	1839085.13	6286007.15			

MONITORING SHALL BE CONSISTENT *WITH SAN DIEGO MUNICIPAL CODE SECTION
142.0151, PALEONTOLOGICAL RESOURCES REQUIREMENTS FOR GRADING ACTIVITIES.



REFERENCE:
WATER: 14605-5-D, 34696-4-D
SEWER: 7757-AD, 14031-2-D
STORM DRAIN: N/A
GAS: SDGE 15952-118735
ELECTRIC: SDGE 15952-118735
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1984
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: 198-1722, G22S
THOMAS BROS.: 1289 C4
HCL: 390

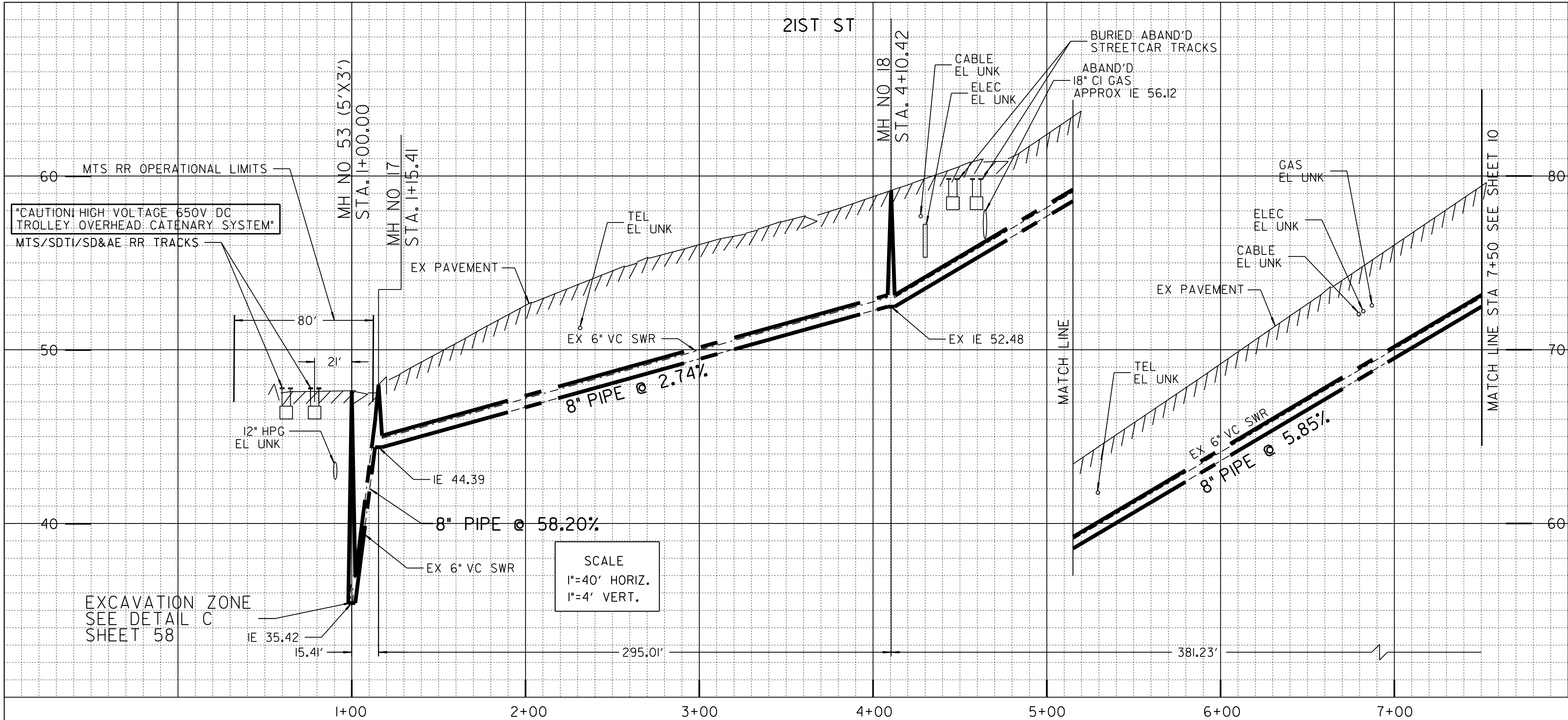
RETIREMENTS:
6" - VC - 175' - 1969
MH - 4X3 - 1 - 1969
4" LATERAL - 1 - UNK - UNK



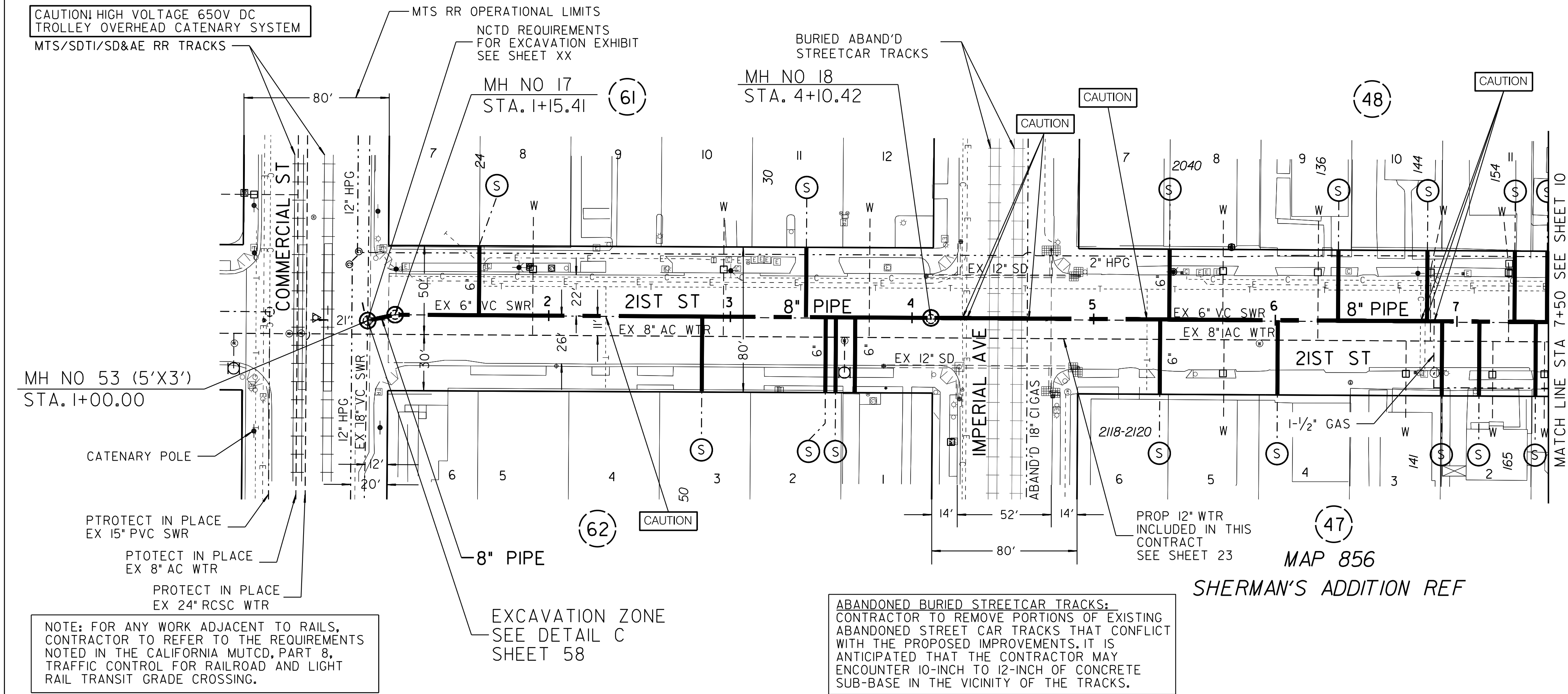
C-6

SEWER & WATER GROUP 793
J STREET
19TH STREET TO EO 19TH STREET

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 8 OF 57 SHEETS		WATER WBS B-15070 SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DGE NAME RCE#		SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIOMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED DATE FILMED
DATE STARTED		198-1719 CCS27 COORDINATE
DATE COMPLETED		1838-6279 CCS83 COORDINATE
CONTRACTOR INSPECTOR		41208-08-D



ALIGNMENT: 21ST ST -N/O COMMERCIAL TO K						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837588.33	6286386.00	STRAIGHT	N12° 09'53"W	D = 15.41
PI	1+15.41	1837603.39	6286382.75	STRAIGHT	N0° 20'28"E	D = 295.01
PI	4+10.42	1837898.40	6286384.51	STRAIGHT	N0° 23'04"E	D = 381.23
PI	7+91.65	1838279.62	6286387.07	STRAIGHT	N0° 19'34"E	D = 380.79
POE	11+72.45	1838660.41	6286389.23			



REFERENCE:

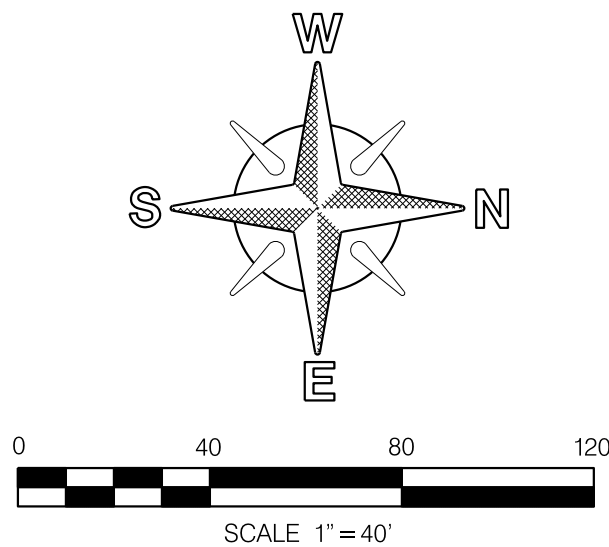
WATER: 9561-2-D
SEWER: 9561-2-D, 21198-7-D
STORM DRAIN: 11331-4-D, 7436-1-L
GAS: SDGE 15952-118720, 15952-118725
ELECTRIC: SDGE 15952-118720, 15952-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMA-1984, BMB-1984
IMPROVEMENTS: 11331-4-D, 13503-14-L
SD ELECTRIC RAILWAYS CO, SHEETS 10 AND 11
100' SCALE: FIELD BOOK: 194-1719, 198-1719, G-23-S
THOMAS BROS.: 1289-C4
HGL: 231, 390

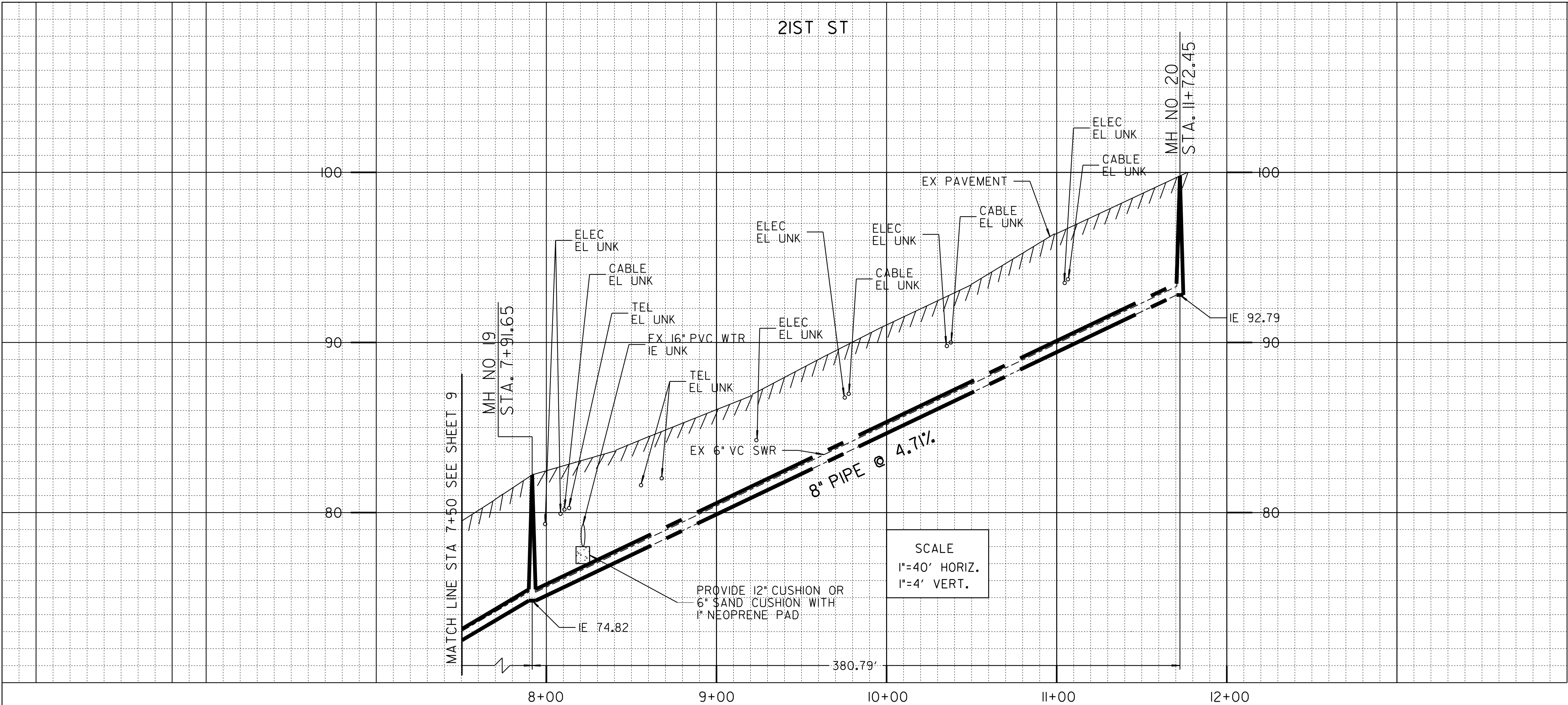
RETIREMENTS:

6" - VC - 650.02' - 1983
MH - 4X3 - 1 - 1960
MH - 4X3 - 1 - 1983
4" LATERAL - 11- UNK - UNK
6" LATERAL - 1 - UNK - 2013
6" LATERAL - 4 - UNK - UNK

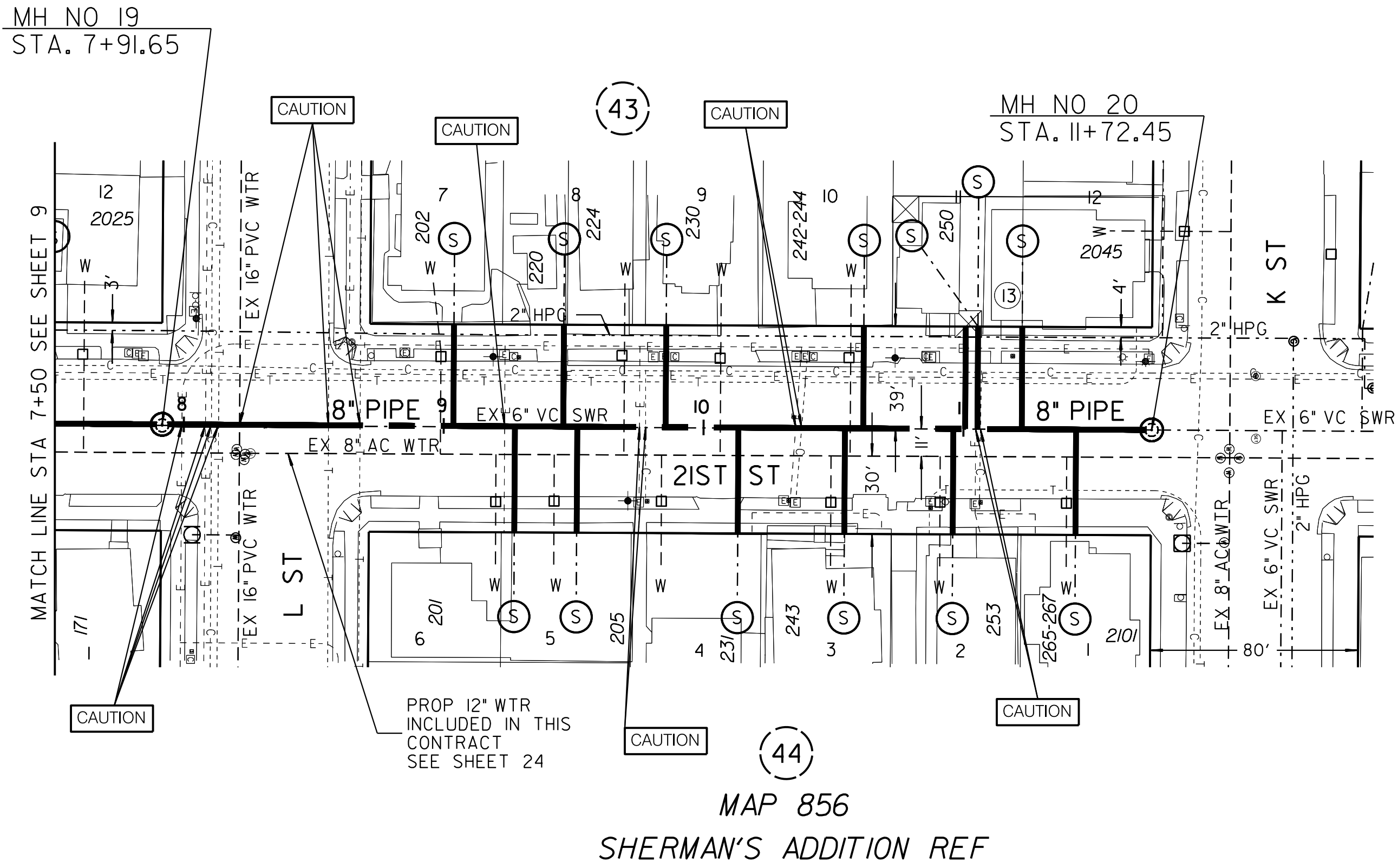
C-7

SEWER & AC WATER GROUP 793	
21ST STREET	
COMMERCIAL STREET TO NO IMPERIAL AVE	
CITY OF SAN DIEGO, CALIFORNIA	
PUBLIC WORKS DEPARTMENT	
SHEET 9 OF 57 SHEETS	
APPROVED:	DATE
FOR CITY ENGINEER	C59403
PRINT NAME	DATE
DESCRIPTION	BY
ORIGINAL	BP/DC
APPROVED	DATE
FILMED	DATE
DATE STARTED	
DATE COMPLETED	
CONTRACTOR	
INSPECTOR	
WATER WBS B-15070	
SEWER WBS B-00394	
SUBMITTED BY: ELHAM LOTFI	
PROJECT MANAGER	
CHECKED BY: BAREAZ PIROMARI	
PROJECT ENGINEER	
194-1719	
CCS27 COORDINATE	
1834-6279	
CCS83 COORDINATE	
41208-09-D	





ALIGNMENT: 21ST ST -N/O COMMERCIAL TO K						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
PI	7+91.65	1838279.62	6286387.07	STRAIGHT	NO°19'34"E	D = 380.79
POE	11+72.45	1838660.41	6286389.23			

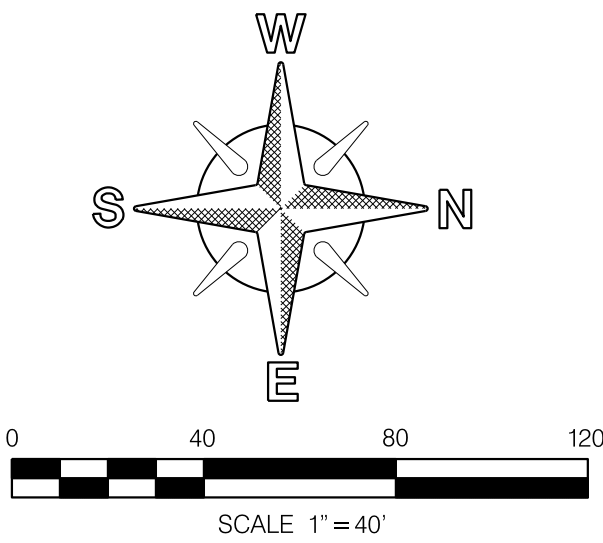


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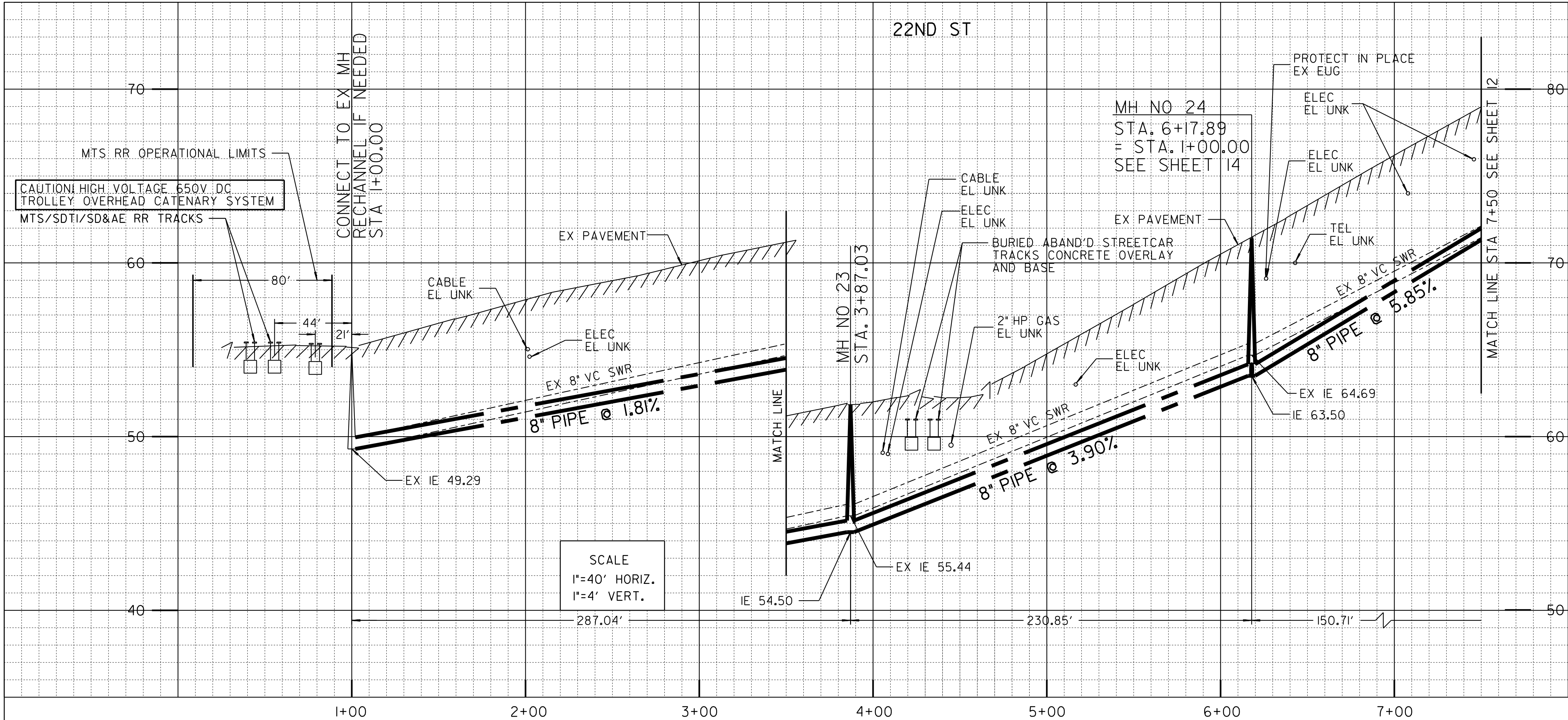
WATER: 34696-10-D
SEWER: 21198-7-D
GAS: SDGE 15952-118730, 15952-118735
ELECTRIC: SDGE 15952-118730, 15952-118735
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE BMB-1984
IMPROVEMENTS: 1429-L
STREET CAR MAPS - SD ELECTRIC RAILWAYS CO.
100' SCALE: FIELD BOOK: 198-1719, 196-1725/ G-23-S, H-22-S
THOMAS BROS.: 1289C4
HGL: 390

RETIREMENTS:

6" - VC - 26.22' - 1983
6" - VC - 380.78' - 1969
MH - 4X3 - 2 - 1969
4" LATERAL - 13 - UNK - UNK



SEWER & AC WATER GROUP 793				
21ST STREET				
SO L STREET TO K STREET				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 10 OF 57 SHEETS			WATER WBS B-15070	
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DATE NAME			DATE C59403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED	DATE	FILMED
194-1719, 198-1719 CCS27 COORDINATE			CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
1834-6279, 1838-6279 CCS83 COORDINATE				
CONTRACTOR			DATE STARTED	
INSPECTOR			DATE COMPLETED	
41208-10-D				



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 4+00	STA. 7+50	350

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837609.57	6286665.73	STRAIGHT	N0° 06'45" W	D = 287.03
PI	3+87.03	1837896.60	6286665.16	STRAIGHT	N0° 14'48" E	D = 230.85
PI	6+17.89	1838127.45	6286666.16	STRAIGHT	N0° 14'35" E	D = 150.71

NOTE: FOR ANY WORK ADJACENT TO RAILS, CONTRACTOR TO REFER TO THE REQUIREMENTS NOTED IN THE CALIFORNIA MUTCD, PART 8, TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSING.

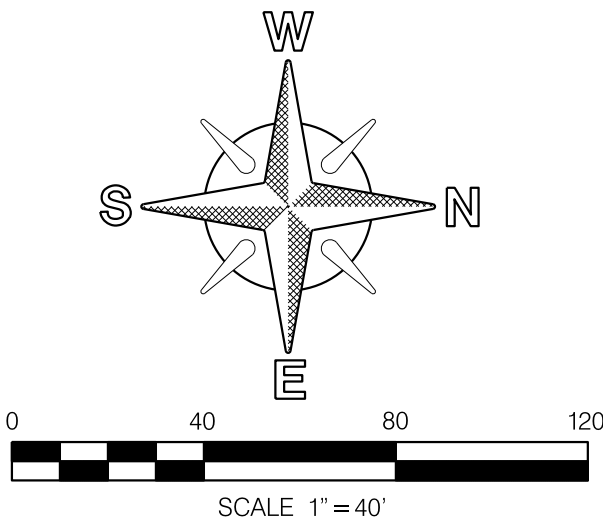
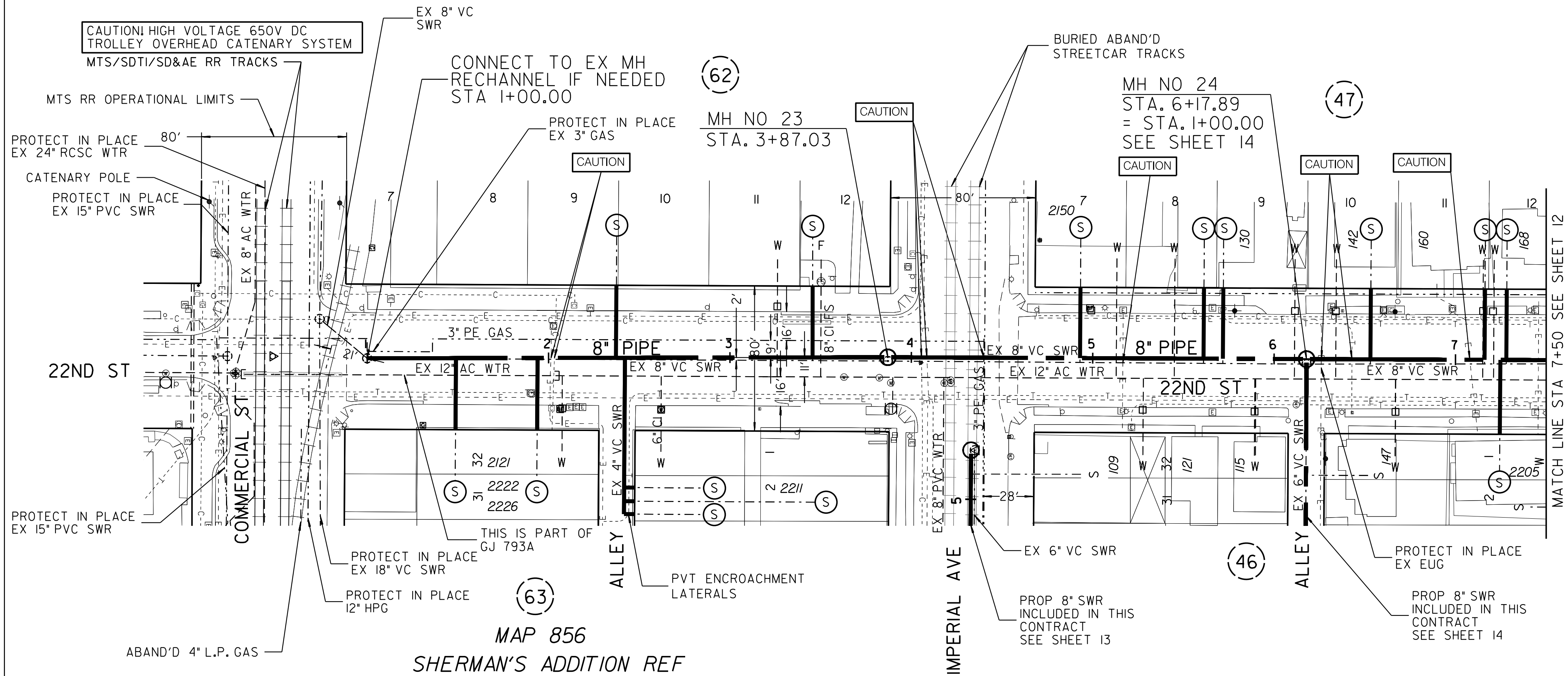
ABANDONED BURIED STREET CAR TRACKS: CONTRACTOR TO REMOVE PORTIONS OF EXISTING ABANDONED STREET CAR TRACKS THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT IS ANTICIPATED THAT THE CONTRACTOR MAY ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE SUB-BASE IN THE VICINITY OF THE TRACKS.

REFERENCE:

WATER: 11388-8-D, 11388-9-D 14605-II-D
25102-6-D, 34696-3-D, 36846-20-D
SEWER: 1430-L, 8783-B, 21198-9-D
GAS: SDGE 15960-118720, 15960-118725
ELECTRIC: SDGE 15960-118720, 15960-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMA-1984, BMB-1984
IMPROVEMENTS: 1429-L
SD ELECTRIC RAILWAYS CO, SHEETS 10 AND 11
100' SCALE/FIELD BOOK: 194-1725, 196-1725/H-23-S
THOMAS BROS.: 1289C4
HGL: 390

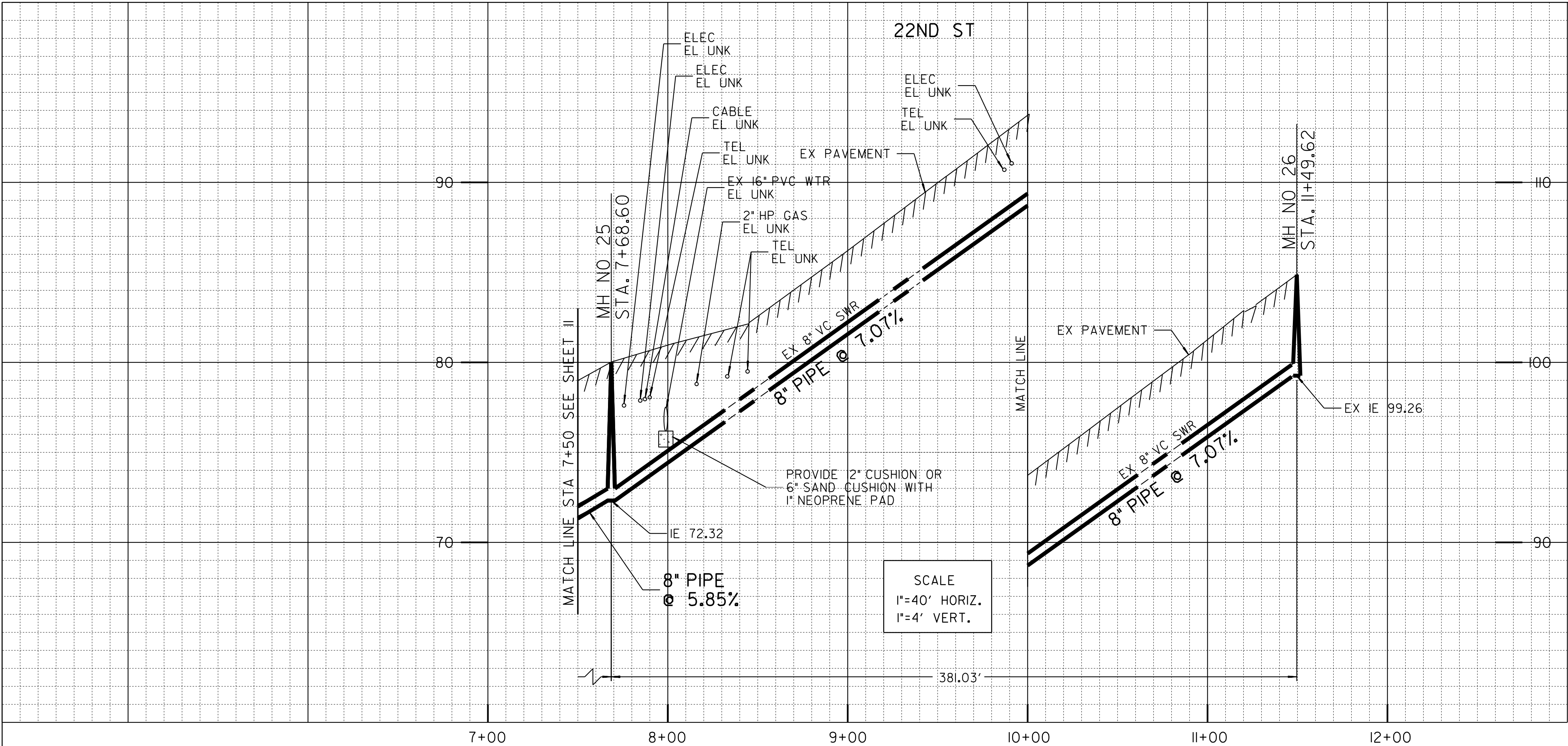
RETIREMENTS:

18\"/>

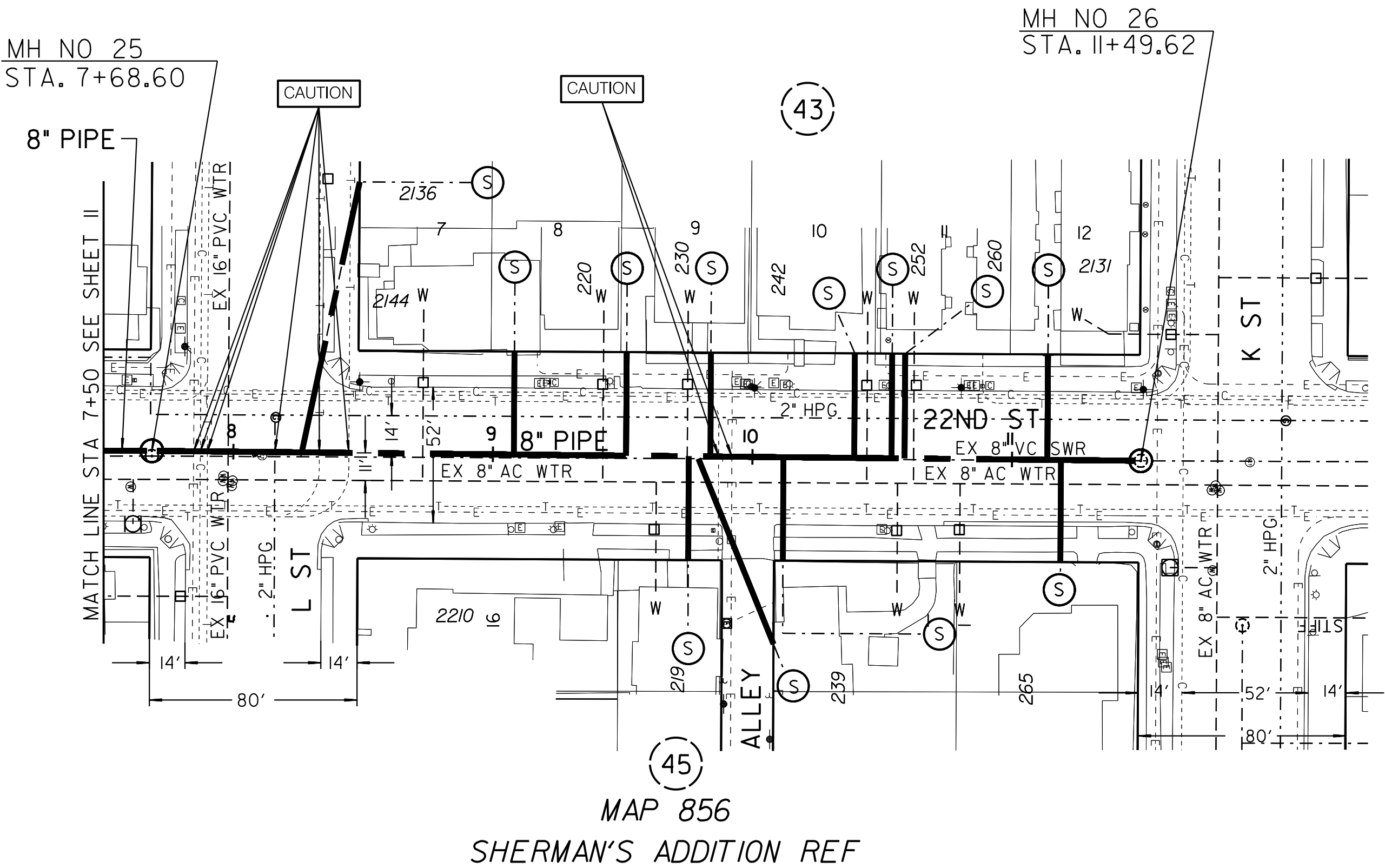


SEWER & AC WATER GROUP 793
22ND STREET
COMMERCIAL STREET TO NO IMPERIAL AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 11 OF 57 SHEETS		WATER WBS B-15070 SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DGE NAME	DATE C59403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED
		DATE
		FILMED
194-1725 CCS27 COORDINATE		1834-6285 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED
		41208-11-D



POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
PI	7+68.60	1838278.16	6286666.80	STRAIGHT	NO° 34'33" E	D = 381.03
POE	11+49.62	1838659.16	6286670.63			

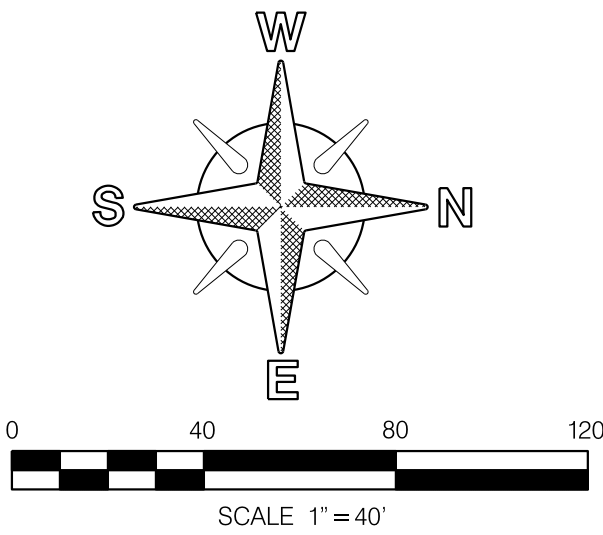


REFERENCE:

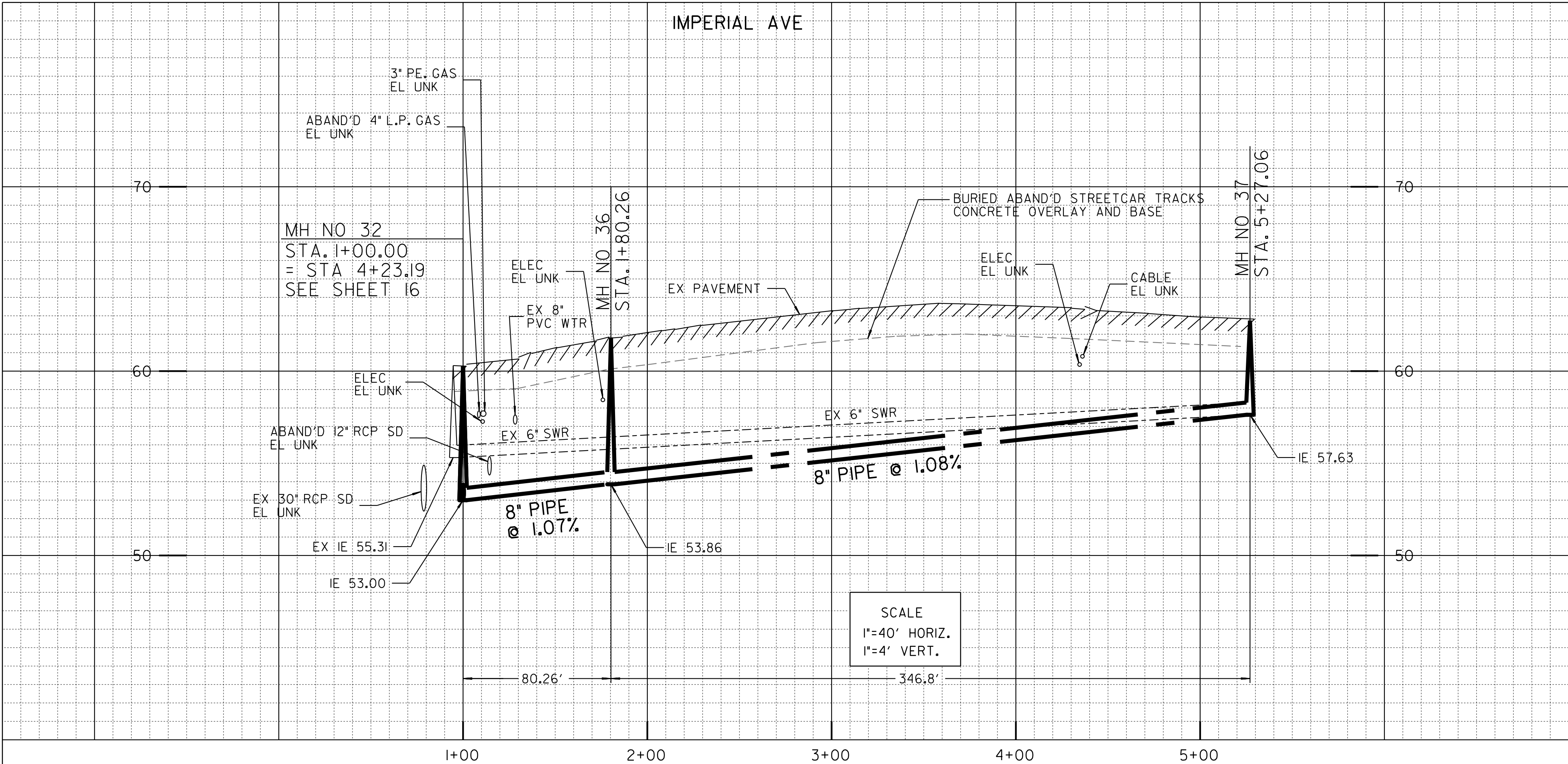
WATER: 14605-5-D, 14605-6-D, 34696-10-D
SEWER: 200-L
STORM DRAIN: N/A
GAS: SDGE 15952-118725, 15952-118730, 15952-118735
ELECTRIC: SDGE 15952-118725, 15952-118730, 15952-118735
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8C 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMA-1984, BMB-1984
FIELD BOOK: G-22-S, H-22-S, G-23-S, H-23-S
IMPROVEMENTS: N/A
100' SCALE: 194-1719, 198-1719
THOMAS BROS.: 1289C4
HGL: 390

RETIREMENTS:

8" - UNK - 44.83' - 1923
8" - UNK - 381.01' - UNK
MH - 4X3 - 2 - UNK
4" LATERAL - 10 - UNK - UNK



SEWER & AC WATER GROUP 793	
22ND STREET	
SO L STREET TO K STREET	
CITY OF SAN DIEGO, CALIFORNIA	
PUBLIC WORKS DEPARTMENT	
SHEET 12 OF 57 SHEETS	
APPROVED:	DATE: C59403
FOR CITY ENGINEER: SHEILA BOSE	PROJECT ENGINEER: BAREAZ PIROMARI
PRINT: BOSE NAME	PROJECT ENGINEER: BAREAZ PIROMARI
DESCRIPTION: ORIGINAL	DATE: 194-1725, 198-1725
BY: BP/DC	DATE: 1834-6285, 1838-6285
APPROVED:	DATE: 41208-12-D
INSPECTOR:	DATE: 41208-12-D

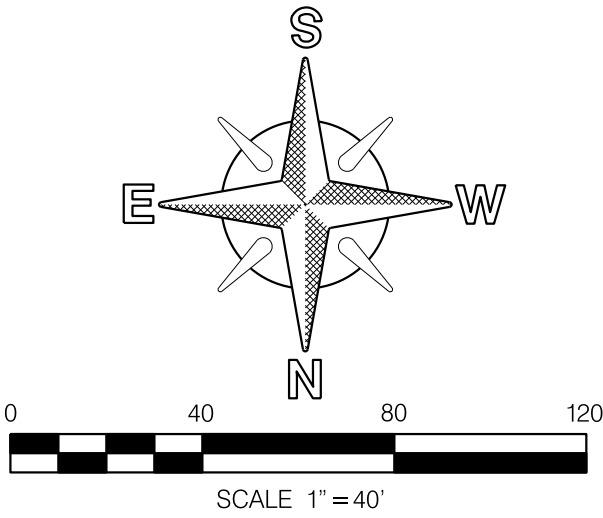
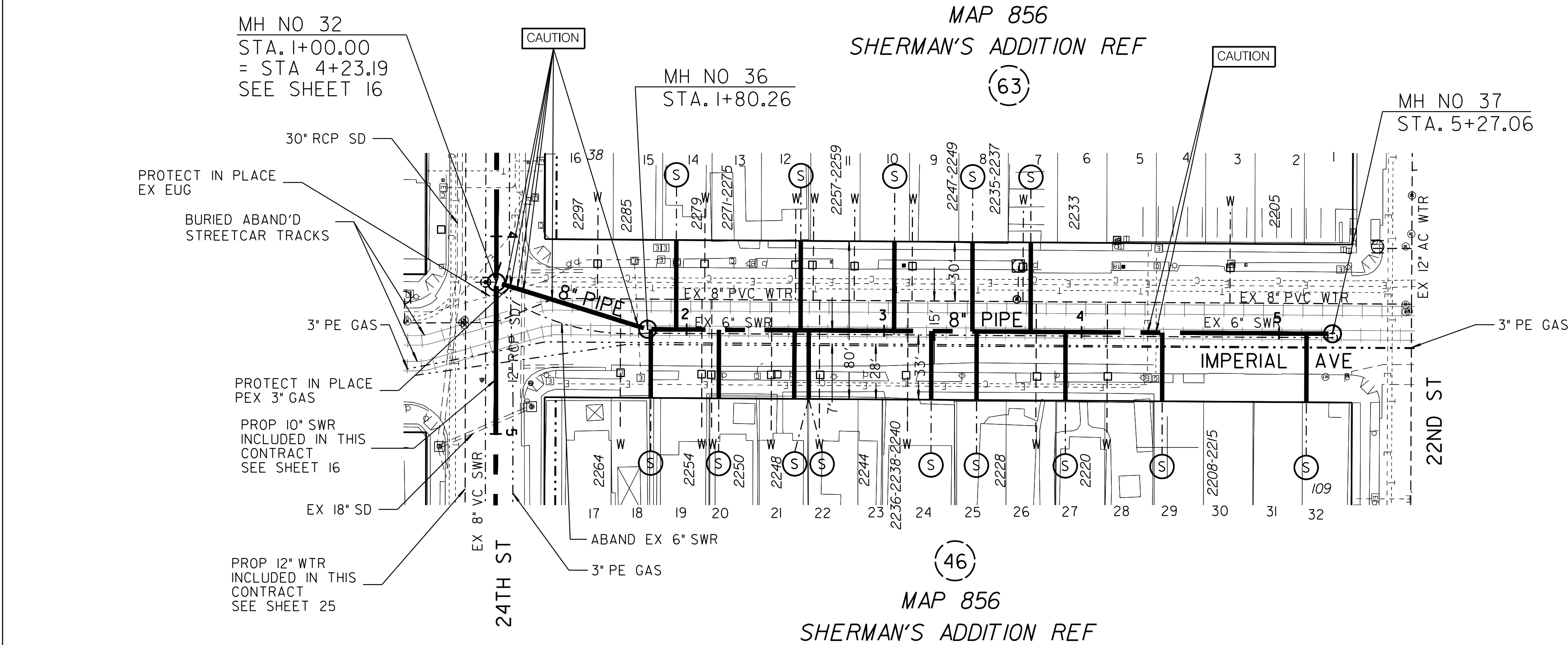


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 4+80	380
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

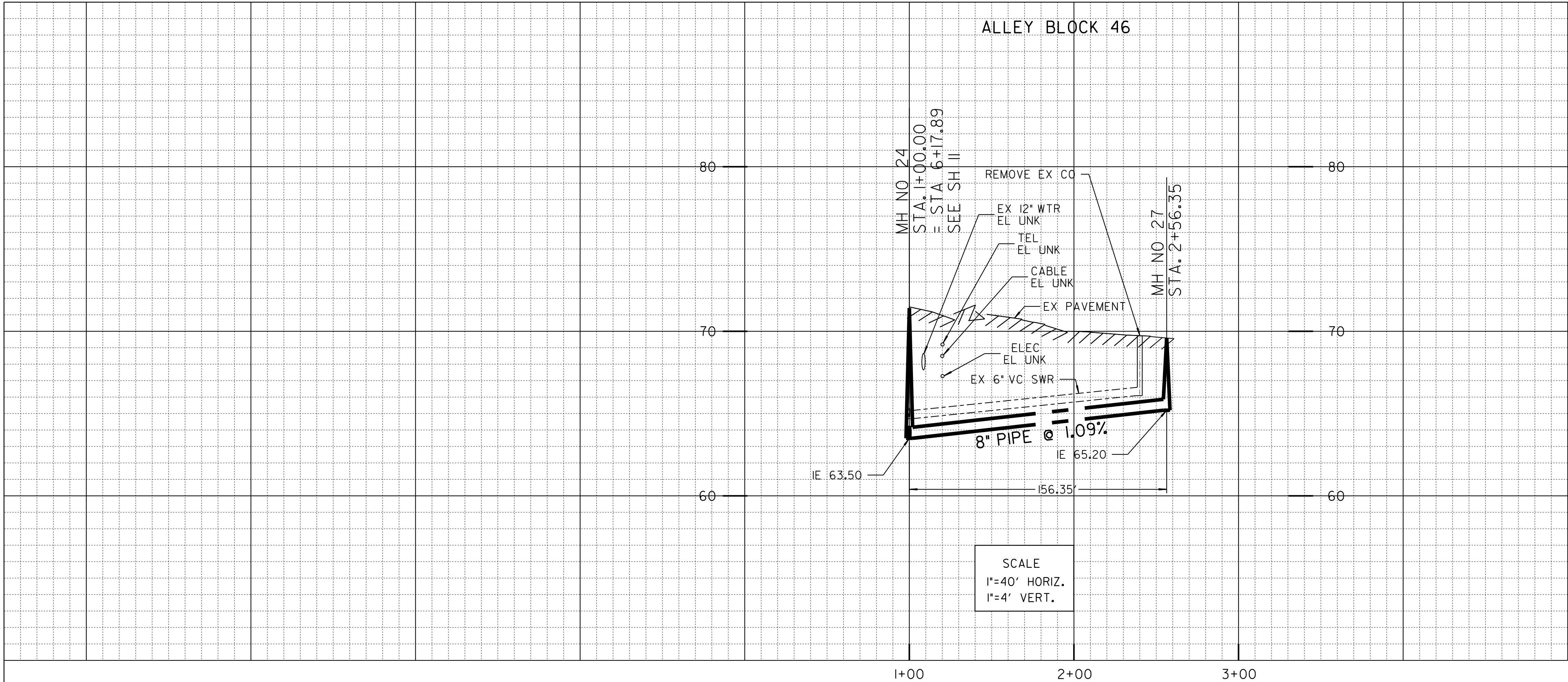
ALIGNMENT: IMPERIAL AVE- 22ND ST TO 24TH ST					
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA DIST/LENGTH
POB	1+00.00	1837916.36	6287139.81	STRAIGHT	N72° 44' 31" W D = 80.26
PI	1+80.26	1837940.17	6287063.16	STRAIGHT	N89° 37' 12" W D = 346.80
POE	5+27.06	1837942.47	6286716.37		

ABANDONED BURIED STREET CAR TRACKS:
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.

REFERENCE:
WATER: 14552-L, 14605-II-D, 25102-6-D
SEWER: 200-L
STORM DRAIN: 20457-I, 3-D
GAS: SDGE 15960-118720, 15960-118730
ELECTRIC: SDGE 15960-118720, 15960-118730
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1985
IMPROVEMENTS: 1818-L, 17211-2-D, 17270-2-D
100' SCALE/FIELD BOOK: 197-1726, H23S
THOMAS BROS.: 1289 C4
HGL: 390
RETIREMENTS:
6" - VC - 432.77' - 1960
MH - 4X3 - 1 - 1960
4" LATERAL - 14 - UNK - UNK

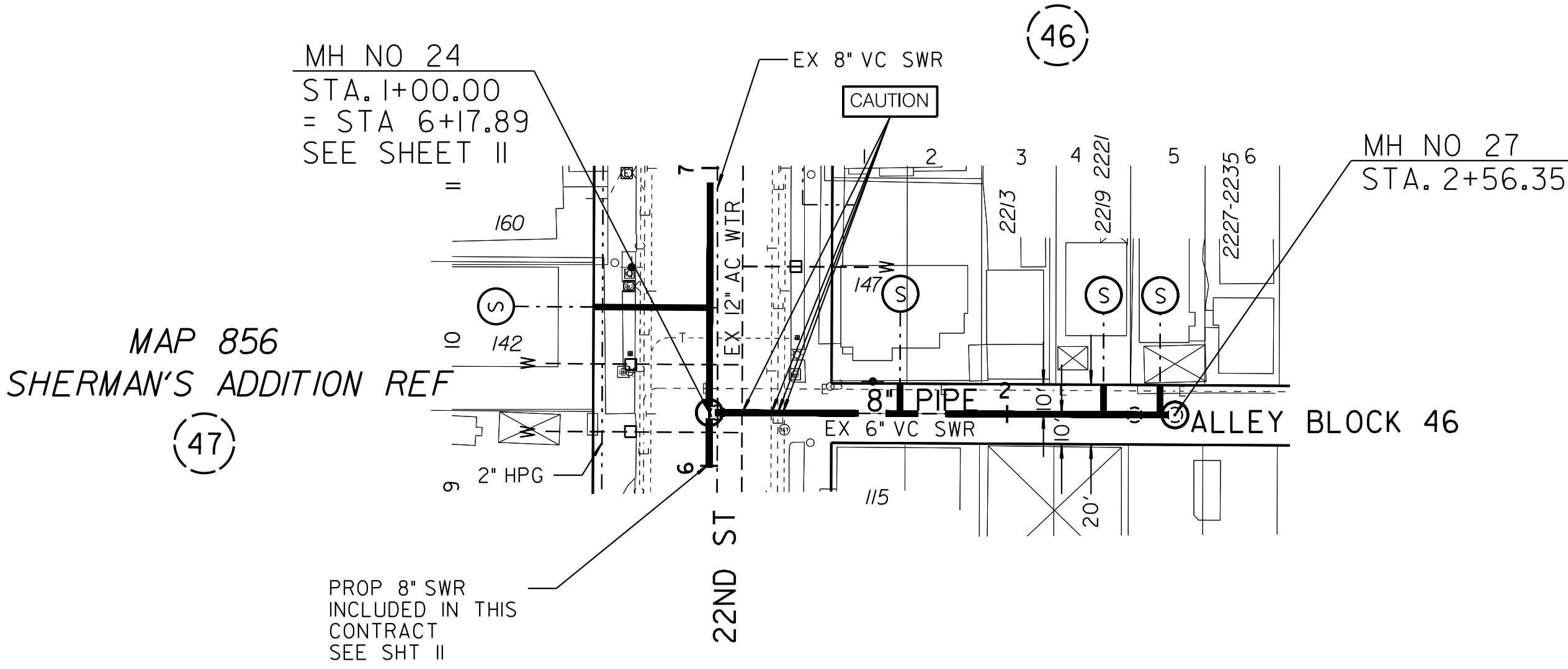


SEWER & WATER GROUP 793 IMPERIAL AVENUE 22ND STREET TO 24TH STREET	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 13 OF 57 SHEETS	WATER WBS B-15070 SEWER WBS B-00394
APPROVED FOR CITY ENGINEER SHEILA BOSE PRINT DATE NAME RCE# C59403	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BP/DC
APPROVED	DATE
FILED	
194-1725, 198-1725 CCS27 COORDINATE	
1834-6285, 1838-6285 CCS83 COORDINATE	
41208-13-D	
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED



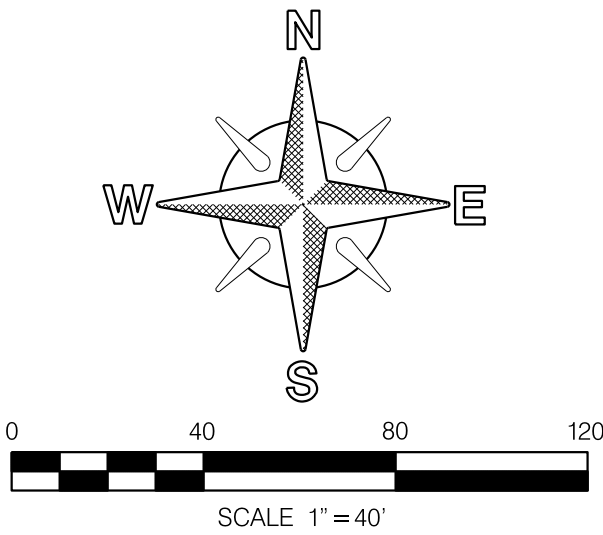
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 2+57	157
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: ALLEY BLK 46-22ND ST TO N/O IMPERIAL ST AND S/O L ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1838127.45	6286666.16	STRAIGHT	S89° 43'05"E	D = 156.35
POE	2+56.35	1838126.68	6286822.51			

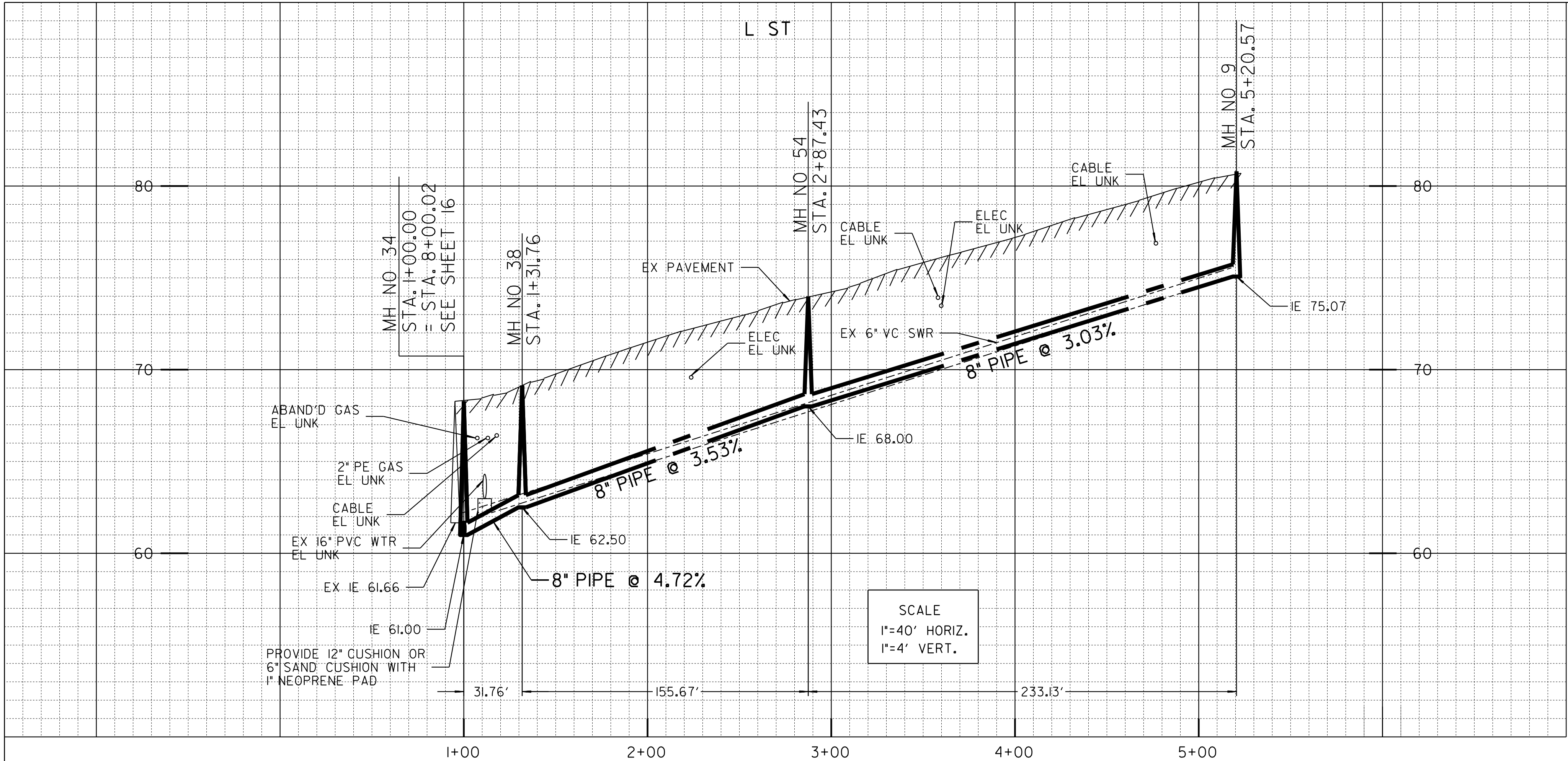


REFERENCE:
WATER: 14605-II-D,
SEWER: 8783-B
GAS: SDGE 15960-118720, 15960-118725
ELECTRIC: SDGE 15960-118720, 15960-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1985
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: 196-1725, H23S
THOMAS BROS.: 1289C4
HGL: 390

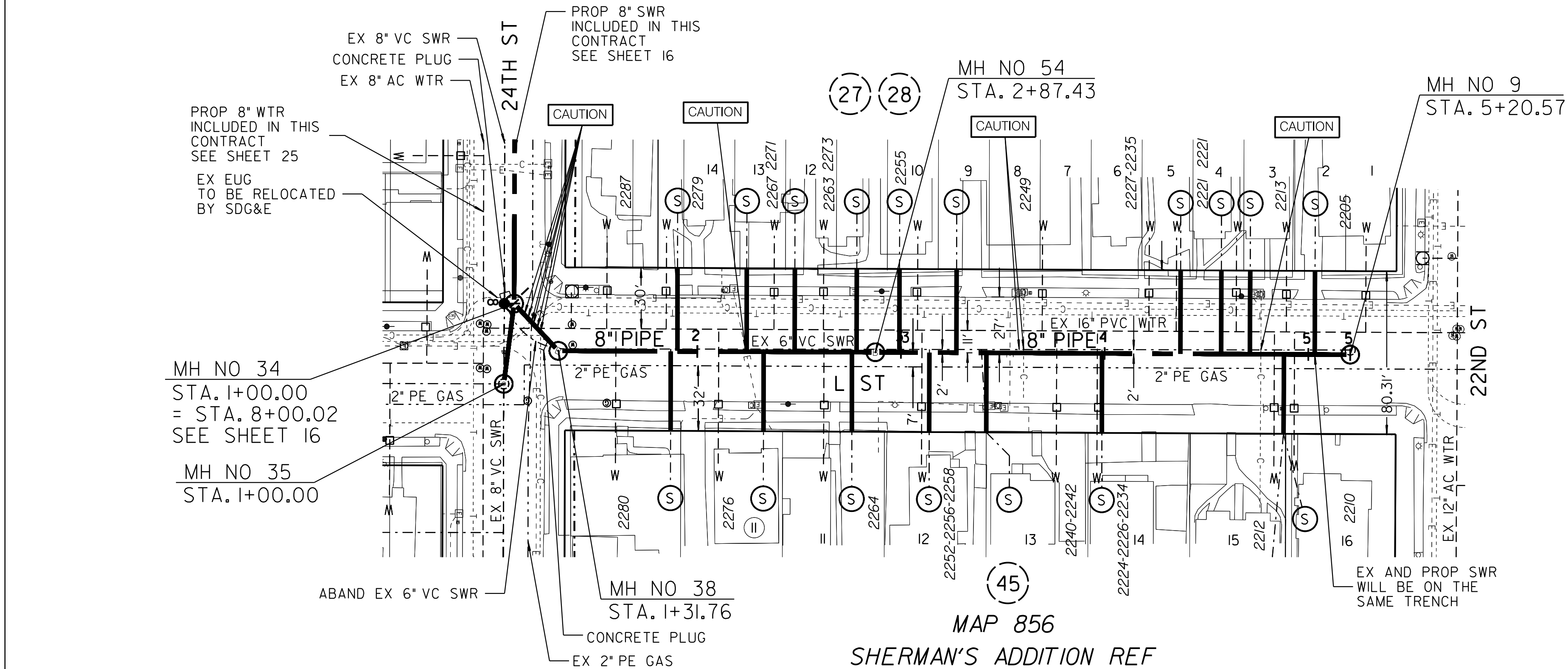
RETIREMENTS:
6" - VC - 140' - 1923
4" LATERAL - 3 - UNK - 1923



SEWER & AC WATER GROUP 793 ALLEY BLOCK 46 22ND STREET TO E/O 22ND STREET				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 14 OF 57 SHEETS			WATER WBS SEWER WBS	B-15070 B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DATE NAME RCE#			SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BP/DC			
DATE STARTED			DATE COMPLETED	
CONTRACTOR			INSPECTOR	
			41208-14-D	



ALIGNMENT: L ST - BTWN 22ND ST & 24TH ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1838293.18	6287141.02	STRAIGHTN	43° 04'25"W	D = 31.76
PI	1+31.76	1838316.38	6287119.33	STRAIGHTN	89° 44'41"W	D = 155.67
PI	2+87.43	1838317.08	6286963.66	STRAIGHTN	89° 42'38"W	D = 233.13
POE	5+20.57	1838318.25	6286730.53			

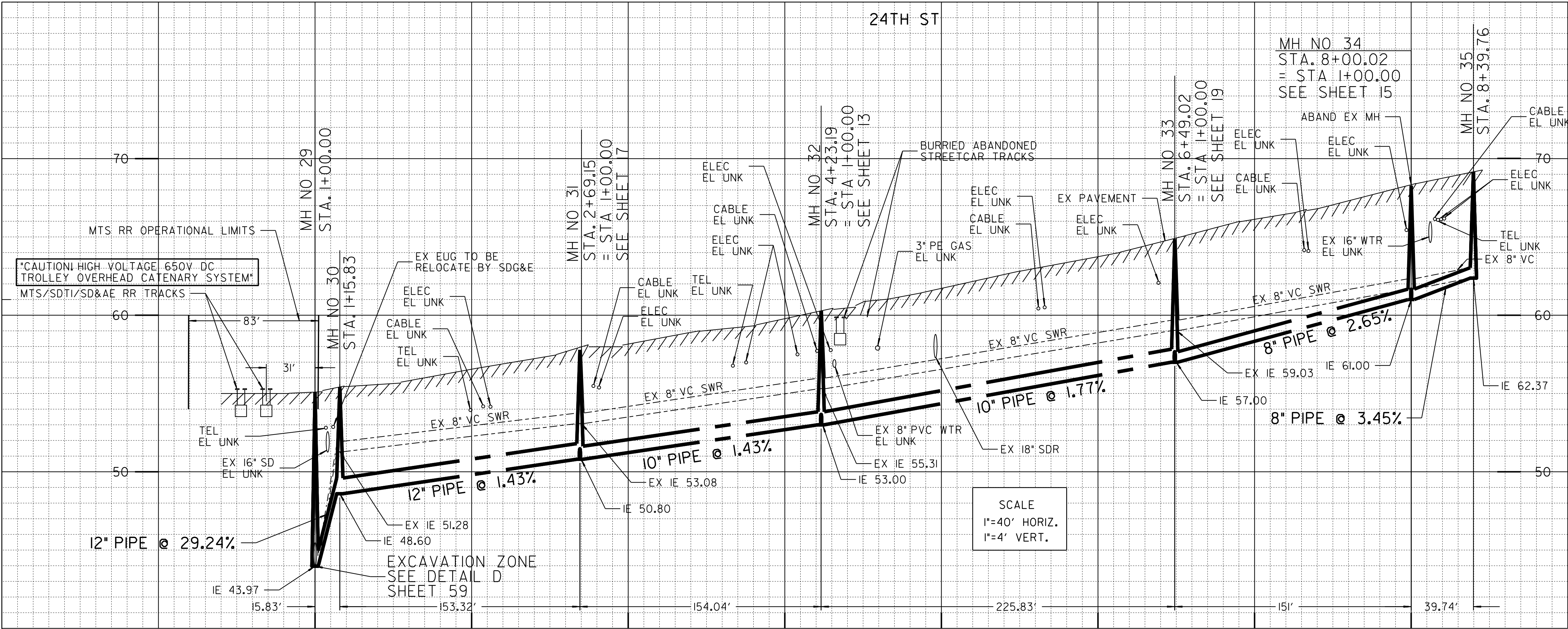


REFERENCE:
WATER: 14605-II-D, 34696-II-D
SEWER: 200-L
GAS: SDGE 15960-118725
ELECTRIC: SDGE 15960-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1985
100' SCALE/FIELD BOOK: 196-1725, H235
THOMAS BROS.: 12894C
HGL: 390

RETIREMENTS:
6" - VC - 415.48' - 1925
MH - 4X3 - 1 - 1925
4" LATERAL - 17 - UNK - UNK

C-13

SEWER & WATER GROUP 793			
L STREET			
22ND STREET TO 24TH STREET			
CITY OF SAN DIEGO, CALIFORNIA		WATER WBS	B-15070
PUBLIC WORKS DEPARTMENT		SEWER WBS	B-00394
SHEET 15 OF 57 SHEETS			
APPROVED:	FOR CITY ENGINEER	DATE	
	SHEILA BOSE	C59403	
PRINT JOB NAME	PROJECT NAME	PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		41208-15-D	

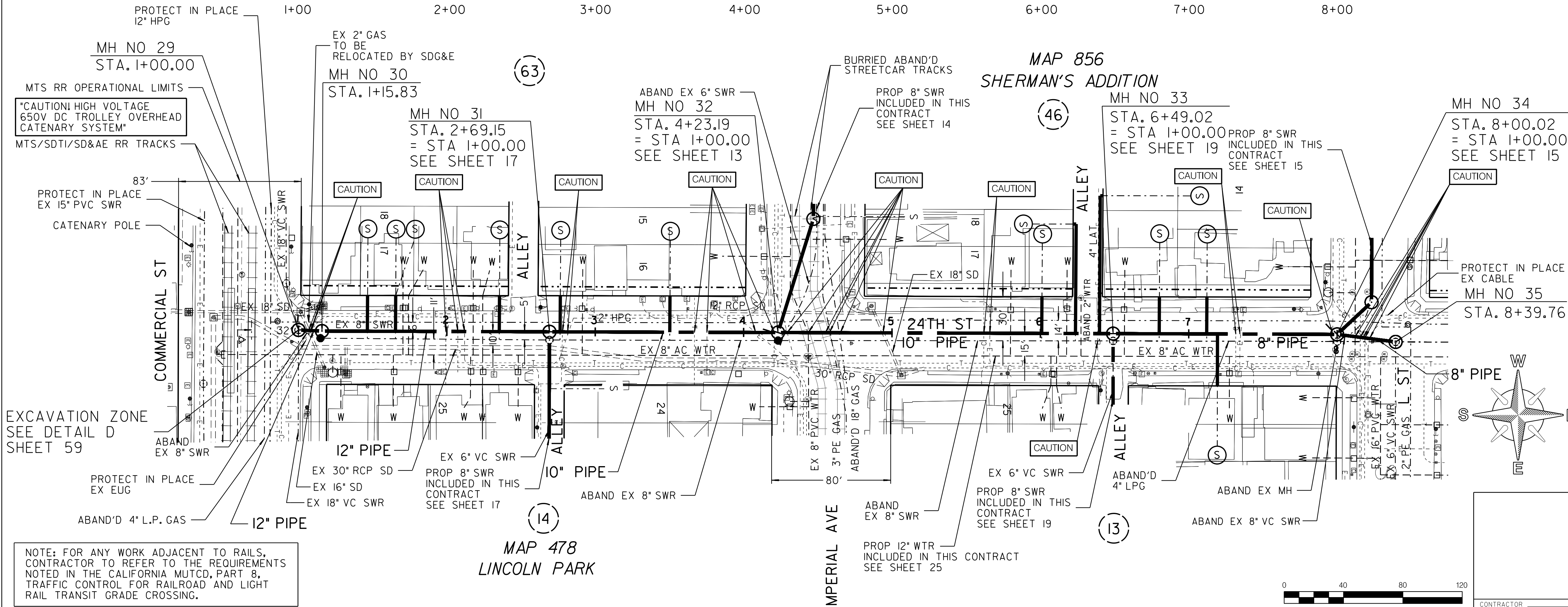


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+15	STA. 8+23	708

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).

ALIGNMENT: 24TH - COMMERCIAL TO L ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837593.18	6287138.06	STRAIGHT	N2° 44'38"E	D=15.83
PI	1+15.83	1837609.00	6287138.82	STRAIGHT	N0° 11'06"E	D=153.32
PI	2+69.15	1837762.31	6287139.31	STRAIGHT	N0° 11'06"E	D=154.04
PI	4+23.19	1837916.36	6287139.81	STRAIGHT	N0° 11'06"E	D=225.83
PI	6+49.02	1838142.18	6287140.54	STRAIGHT	N0° 11'06"E	D=151.00
PI	8+00.02	1838293.18	6287141.02	STRAIGHT	N7° 22'19"E	D=39.74
POE	8+39.76	1838332.59	6287146.12			

ABANDONED BURIED STREET CAR TRACKS:
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.



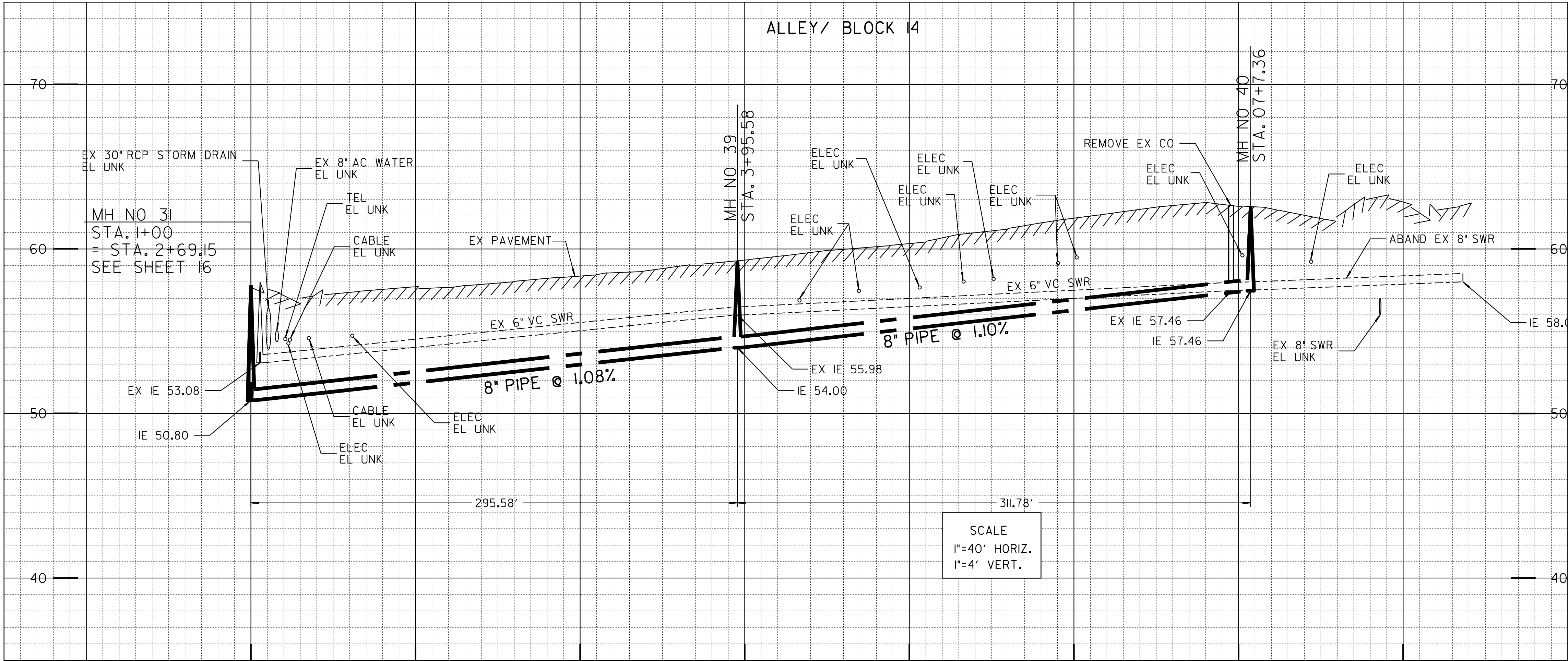
REFERENCE:

WATER: I1388-9-D, I2361-6-7-D, I3503-13-L, I4552-L,
I4605-3-4-6-7-D, I4696-11-12-D
SEWER: 200, 21198-10-D, I7270-2-D
STORM DRAIN: I818-L, I283-L, I388-9-D, I20457-1-D,
GAS: SDGE MAP I5960-I18720, I5960-I18725
ELECTRIC: SDGE MAP I5960-I18720, I5960-I18725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1984
IMPROVEMENTS: SD ELECTRIC RAILWAYS CO, SHEETS 10 & 11
100' SCALE/FIELD BOOK: 198-1725, 196-1725/H235
THOMAS BROS.: I289C
HGL: 390

RETIREMENTS:

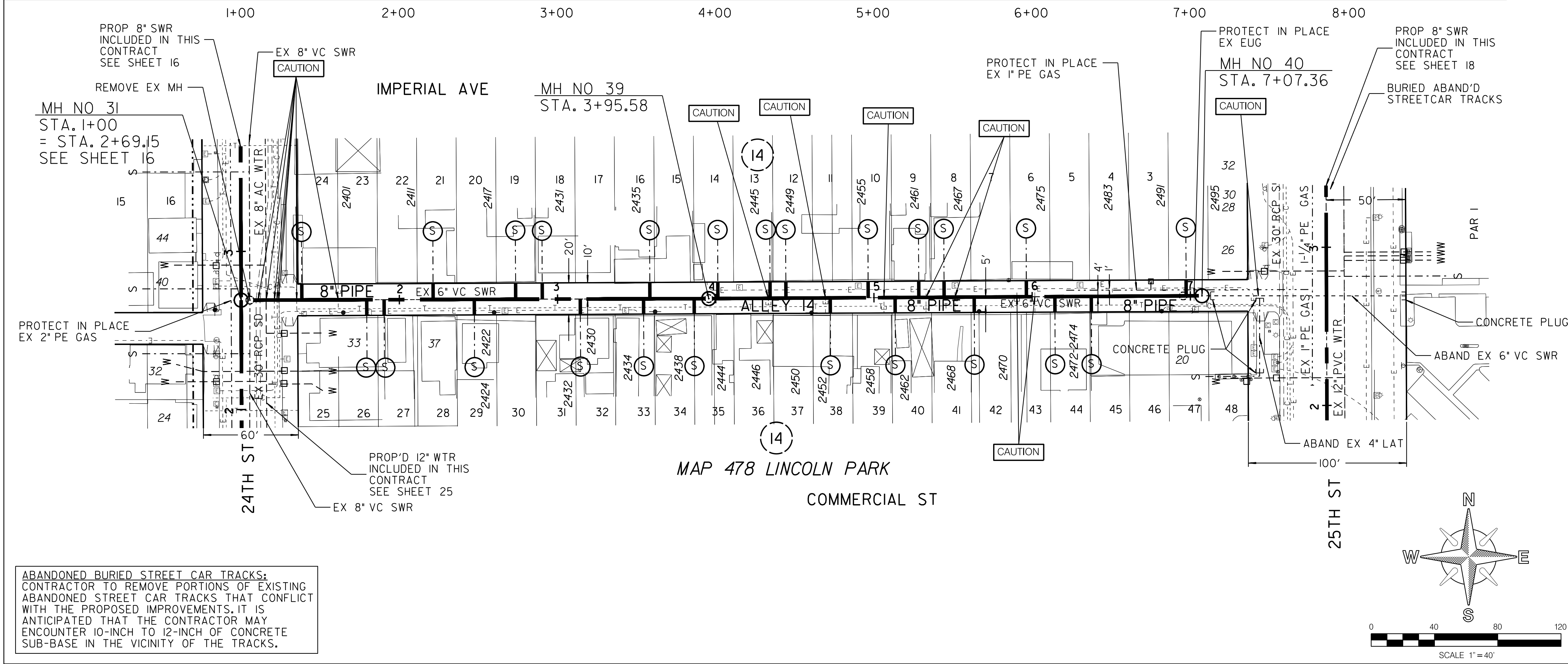
8" - VC - 170.15' - 1983
8" - VC - 154.06' - 1929
8" - VC - 416.24' - 1960
MH - 4X3 - 3 - 1983
MH - 4X3 - 1 - 1929
MH - 4X3 - 1 - 1960
MH - 4X3 - 1 - 1925
4" LATERAL - 11 - UNK - UNK

SEWER & AC WATER GROUP 793			
24TH STREET			
BTWN COMMERCIAL ST & L ST			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 16 OF 57 SHEETS		WATER WBS B-15070	SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE DATE C59403		SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER	
PRINT DGE NAME		CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
DESCRIPTION	BY/DC	APPROVED	DATE
ORIGINAL			
		194-1725 CCS27 COORDINATE	
		1834-6285 CCS83 COORDINATE	
		41208-16-D	



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 6+50	550
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837762.31	6287139.31	STRAIGHT	S89° 47'34"E	D=295.58
PI	3+95.58	1837761.24	6287434.89	STRAIGHT	S89° 55'41"E	D=311.78
POE	7+07.36	1837760.85	6287746.67			



REFERENCE:

WATER: 7973-W, 14552-L, 26538-5-D
SEWER: N/A
STORM DRAIN: 20457-D
GAS: SDGE 15960-118720, 15967-118720
ELECTRIC: SDGE 15960-118720, 15967-118720
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
ATT: PAGE A469, BMB-1985, BMB-1986
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: 194-1725
THOMAS BROS.: 1289 D4
HGL: 390

RETIREMENTS:

6" - VC - 290.06' - 1929
6" - VC - 299.89' - 1925
6" - VC - 54.05' - 1960
MH - 4X3 - 1 - 1925
MH - 4X3 - 1 - 1929
4" LATERAL - 24 - UNK - UNK

C-15

SEWER & WATER GROUP 793	
ALLEY/BLOCK 14	
BTWN 24TH ST & 25TH ST	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 18 OF 57 SHEETS	WATER WBS B-15070 SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DATE NAME DATE C59403	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY BP/DC
APPROVED	DATE
FILED	
194-1725 CCS27 COORDINATE	
1834-6285 CCS83 COORDINATE	
41208-17-D	
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED

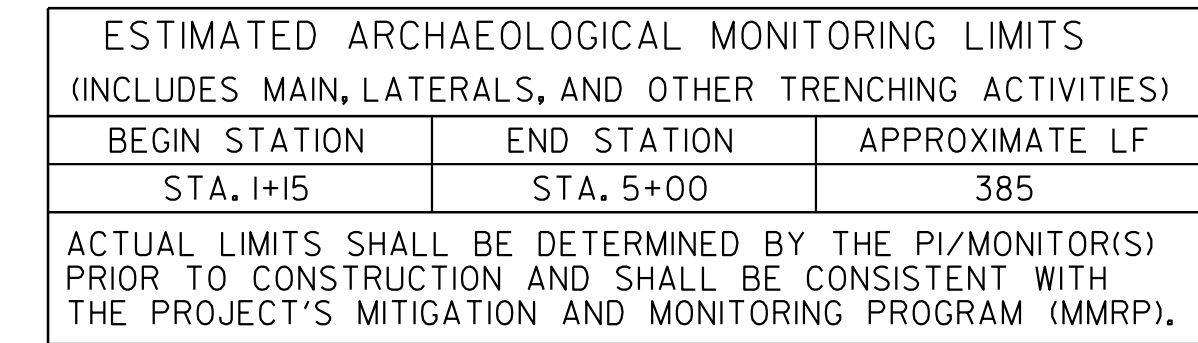
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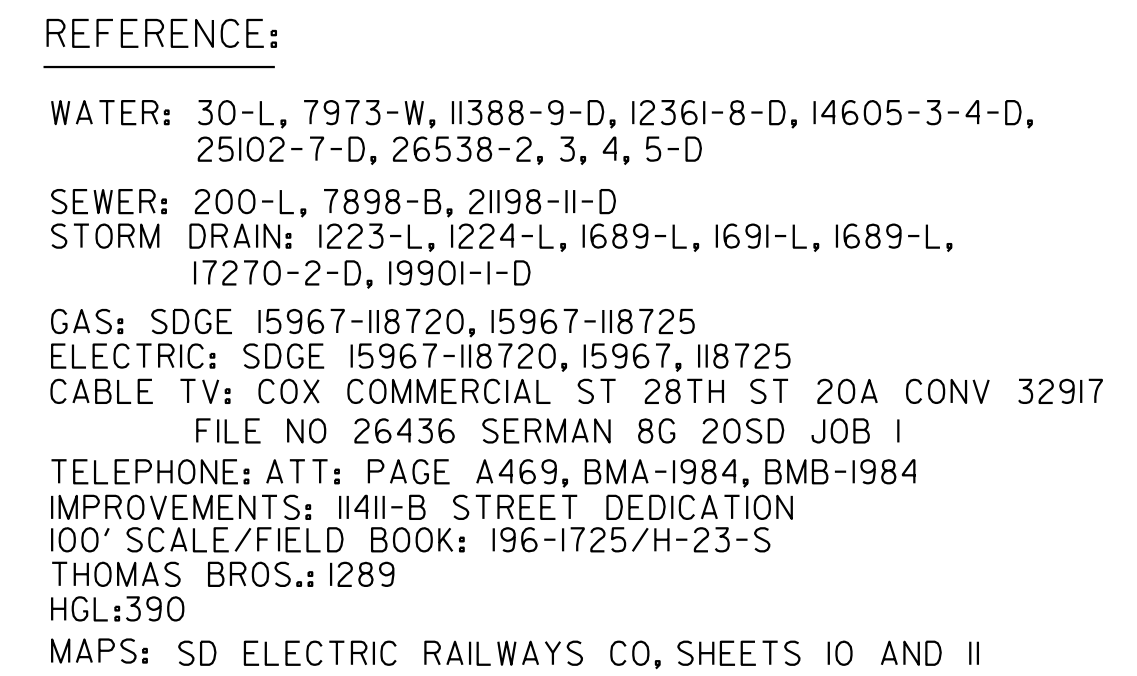
DLCarreon

100% DESIGN

ALLEY/BLOCK 14



ALIGNMENT: 25TH ST-COMMERCIAL ST TO L ST						
POINT	STATION	NORTHING(Y)	EASTING(X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837591.36	6287821.52	STRAIGHT	N12° 21'58"E	D=15.85
PI	1+15.85	1837606.84	6287824.92	STRAIGHT	N0° 09'32"E	D=374.84
PI	4+76.16	1837967.14	6287825.92	STRAIGHT	N0° 09'08"E	D=364.10
POE	8+40.25	1838331.24	6287826.88			



RETIREMENTS:

8" - VC - 15.85' - 1960

8" - VC - 374.84' - UNK

8" - VC - 349.57' - 1958

MH - 4X3 - 1 - 1925

MH - 4X3 - 2 - UNK

MH - 4X3 - 1 - 1915

MH - 4X3 - 1 - 1915

4" LATERAL - 9 - UNK - UNK

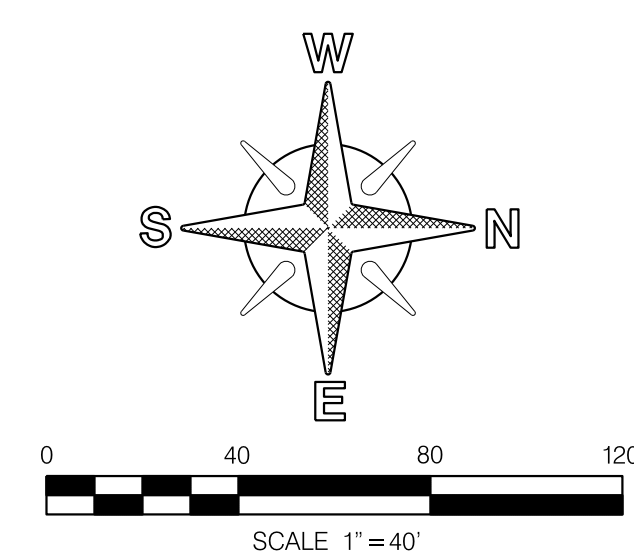
C-16

SEWER & AC WATER GROUP 793
25TH STREET
COMMERCIAL STREET TO L STREET

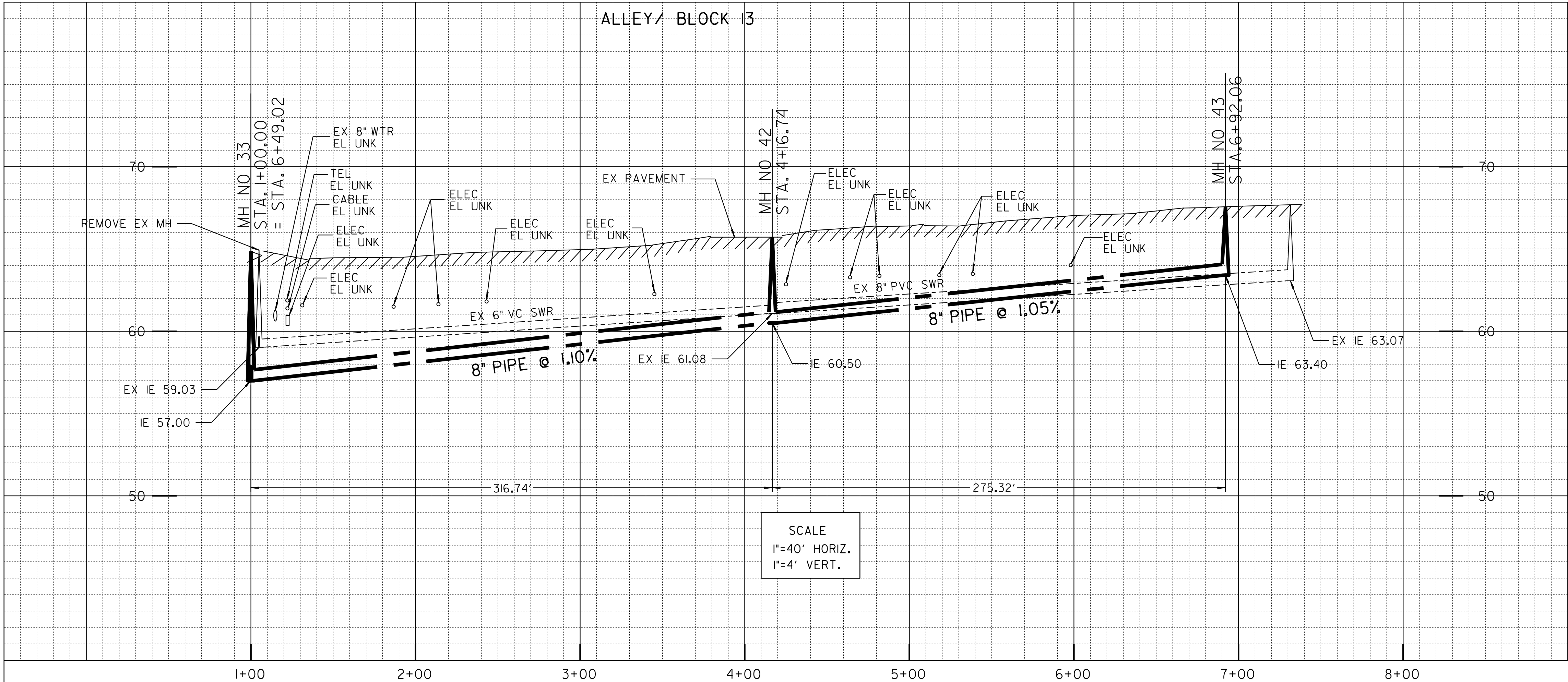
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 19 OF 57 SHEETS					WATER WBS <u>B-15070</u> SEWER WBS <u>B-00394</u>
APPROVED: _____ DATE _____ FOR CITY ENGINEER <u>SHEILA BOSE</u> C59403 PRINT DCE NAME _____ RCE# _____					SUBMITTED BY: <u>ELHAM LOTFI</u> PROJECT MANAGER CHECKED BY: <u>BAREAZ PIROMARI</u> PROJECT ENGINEER
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	NB/DC				194-1725 CCS27 COORDINATE
					1834-6285 CCS83 COORDINATE
DATE STARTED _____					41208-18-D
DATE COMPLETED _____					

NOTE: FOR ANY WORK ADJACENT TO RAILS, CONTRACTOR TO REFER TO THE REQUIREMENTS NOTED IN THE CALIFORNIA MUTCD, PART 8, TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSING.

ABANDONED BURIED STREET CAR TRACKS;
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.



				CCS83 COORDINATE	
CONTRACTOR _____		DATE STARTED _____		41208-18-D	
INSPECTOR _____		DATE COMPLETED _____			



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 5+00	400
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

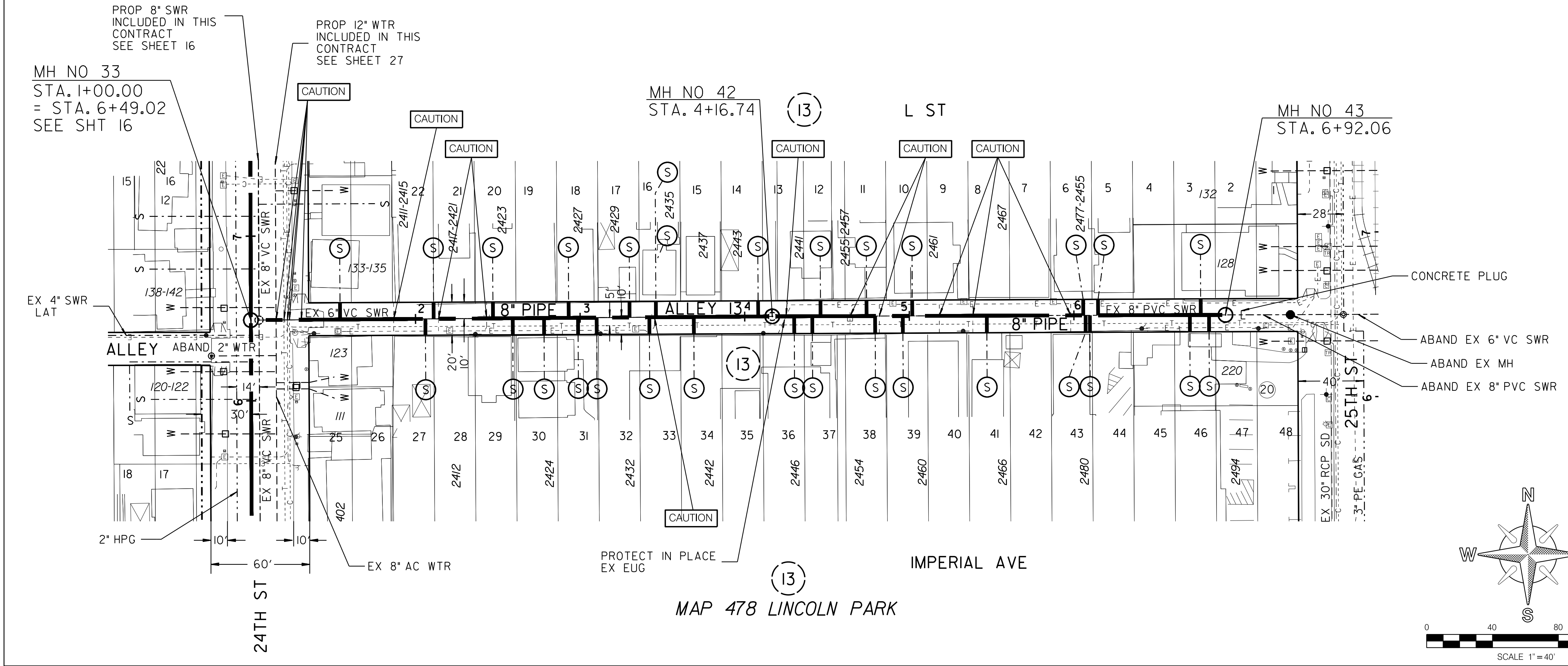
ALIGNMENT: ALLEY/ BLOCK 13 - BTWN L ST & IMPERIAL AVE

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1838142.18	6287140.54	STRAIGHT	N89° 59'14"E	D=316.74
PI	4+16.74	1838142.25	6287457.27	STRAIGHT	S89° 47'15"E	D=275.32
POE	6+92.06	1838141.23	6287732.60			

ABANDONED BURIED STREET CAR TRACKS:
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.

REFERENCE:
WATER: 30-L, 14552-L, 12054-I2&13-D, 26538-4-D
SEWER: 200-L
STORM DRAIN: 1224-L
GAS: SDGE 15960-118725, 15967-118725
ELECTRIC: SDGE 15960-118-725, 15967-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: TT: PAGE A469, BMB-1985, BMB- 1986
IMPROVEMENTS: 1327-L
100' SCALE/FIELD BOOK: 194-1725, H235
THOMAS BROS.: 1289D4
HGL: 390

RETIREMENTS:
6" - VC - 311.82' - 1925
6" - VC - 53.41' - 1915
8" - PVC - 314.78' - 2006
MH - 4X3 - 2 - 2006
4" LATERAL - 29 - UNK - UNK



C-17

SEWER & WATER GROUP 793 ALLEY/BLOCK 13 BTWN L ST & IMPERIAL AVE.			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 20 OF 57 SHEETS		WATER WBS SEWER WBS	B-15070 B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DCE NAME DATE C59403		SUBMITTED BY ELHAM LOTFI PROJECT MANAGER CHECKED BY BAREAZ PIROMARI PROJECT ENGINEER	
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED	DATE 194-1725 CCS27 COORDINATE
			1834-6285 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	
		41208-19-D	

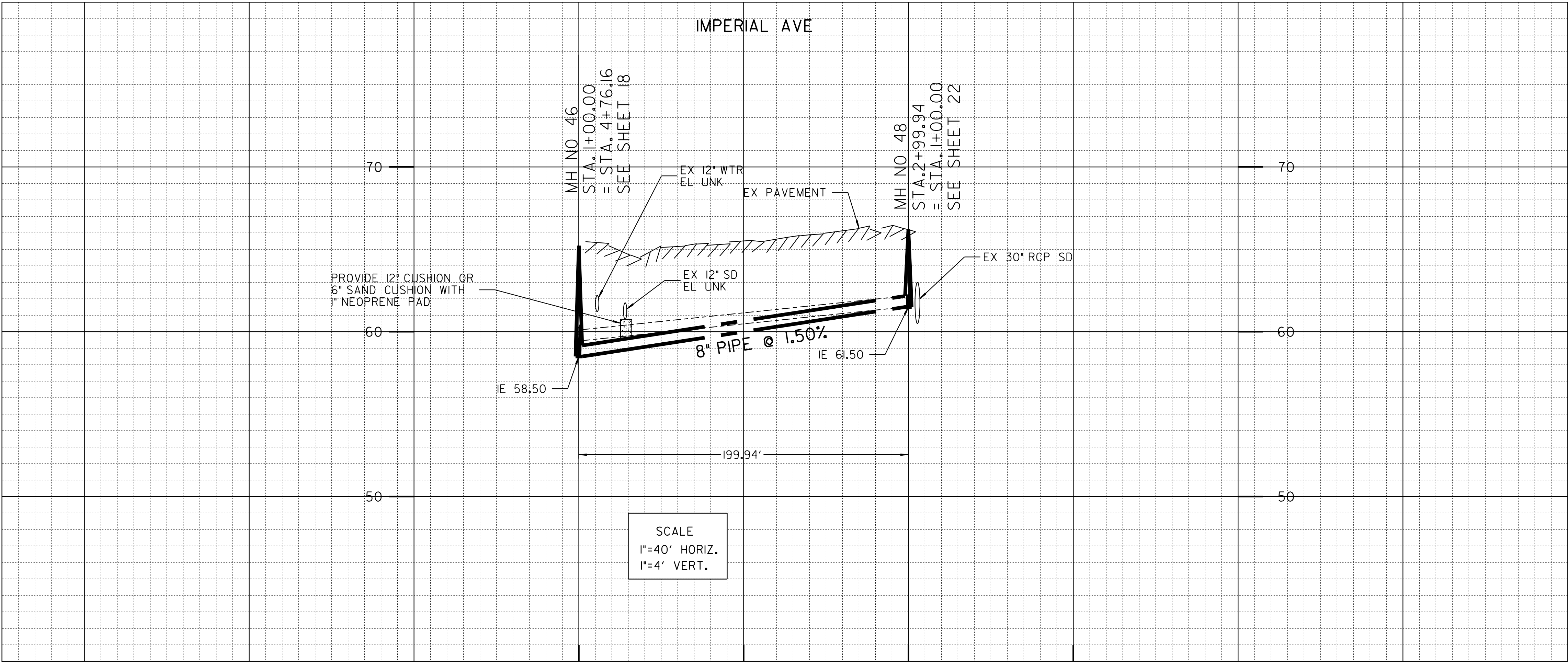
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DLCarreon

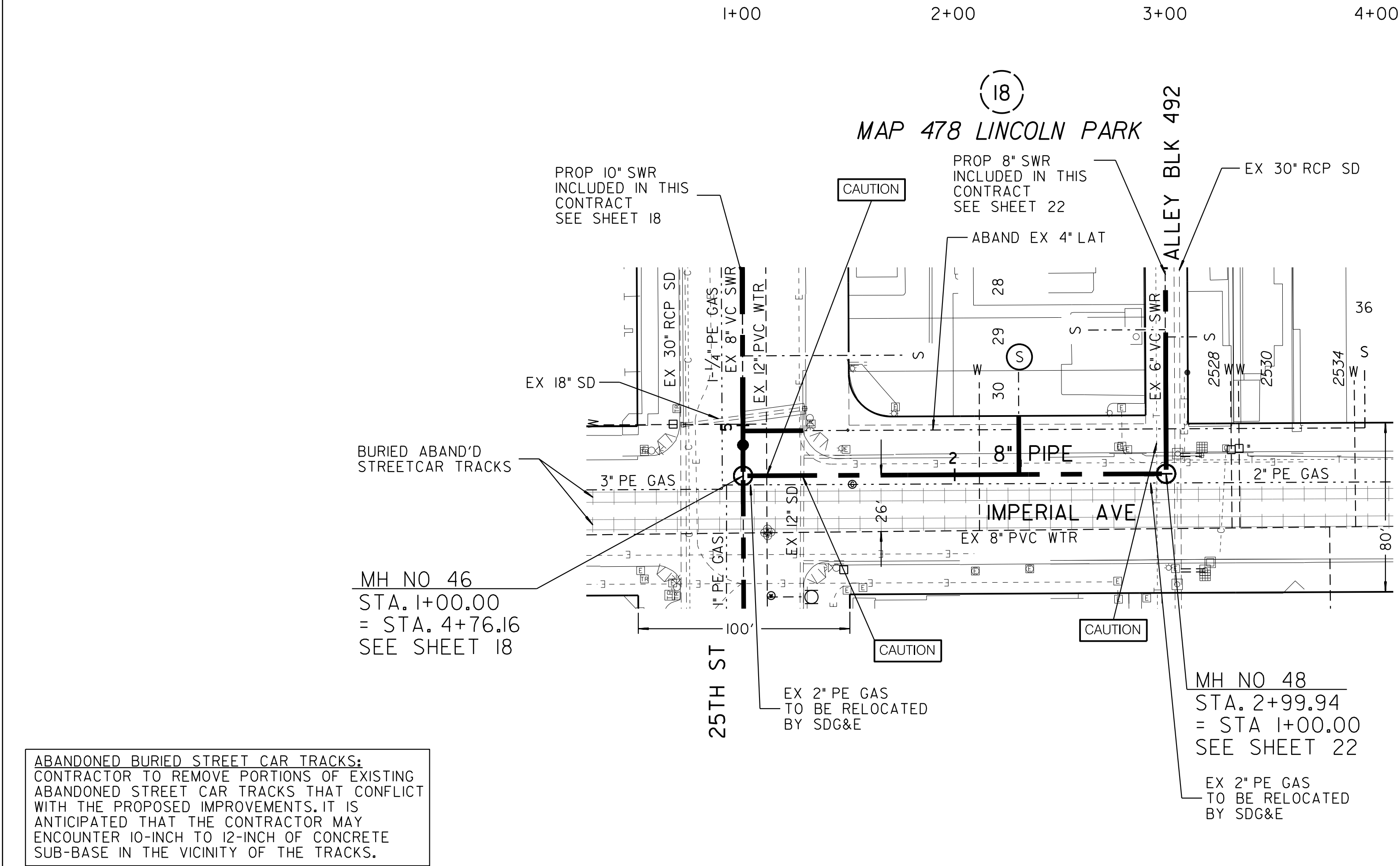
100% DESIGN

ALLEY/ BLOCK 13



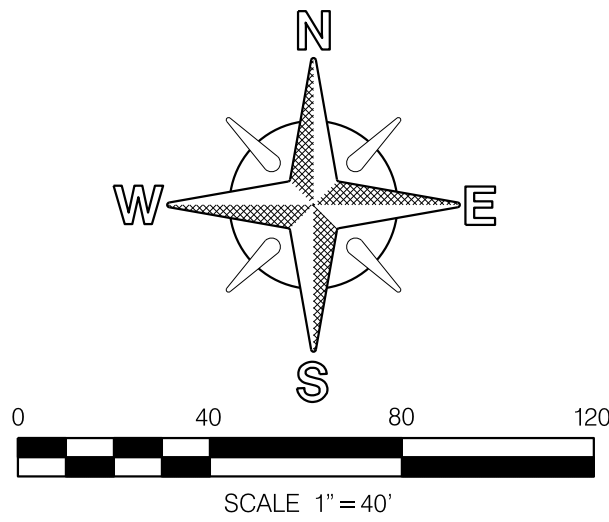
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 2+50	150
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: IMPERIAL AVE-25TH ST & W/O 26TH ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837967.14	6287825.92	STRAIGHT	S89° 52' 40"E	D=199.94
POE	2+99.94	1837966.71	6288025.86			



REFERENCE:
WATER: 30"-I, I4552-L, I2054-I2&I3-D, 26538-4-D
SEWER: 200-L
STORM DRAIN: I224-L
GAS: SDGE I5960-I18725, I5967-I18725
ELECTRIC: SDGE I5960-I18-725, I5967-I18725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8C 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-I985, BMB- 1986
IMPROVEMENTS: I327-L
100' SCALE/FIELD BOOK: I94-I725, H23S
THOMAS BROS.: I289D4
HGL: 390

RETIREMENTS:
4" LATERAL - I- UNK - UNK



SEWER & WATER GROUP 793				
IMPERIAL AVE.				
BTWN 25TH ST & BLOCK 492				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 21 OF 57 SHEETS			WATER WBS SEWER WBS	B-15070 B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE DATE C59403 PRINT DICE NAME RCE#			SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BP/DC			
DATE STARTED			194-1725	
DATE COMPLETED			CCS27 COORDINATE	
			1834-6285	
			CCS83 COORDINATE	
			41208-20-D	

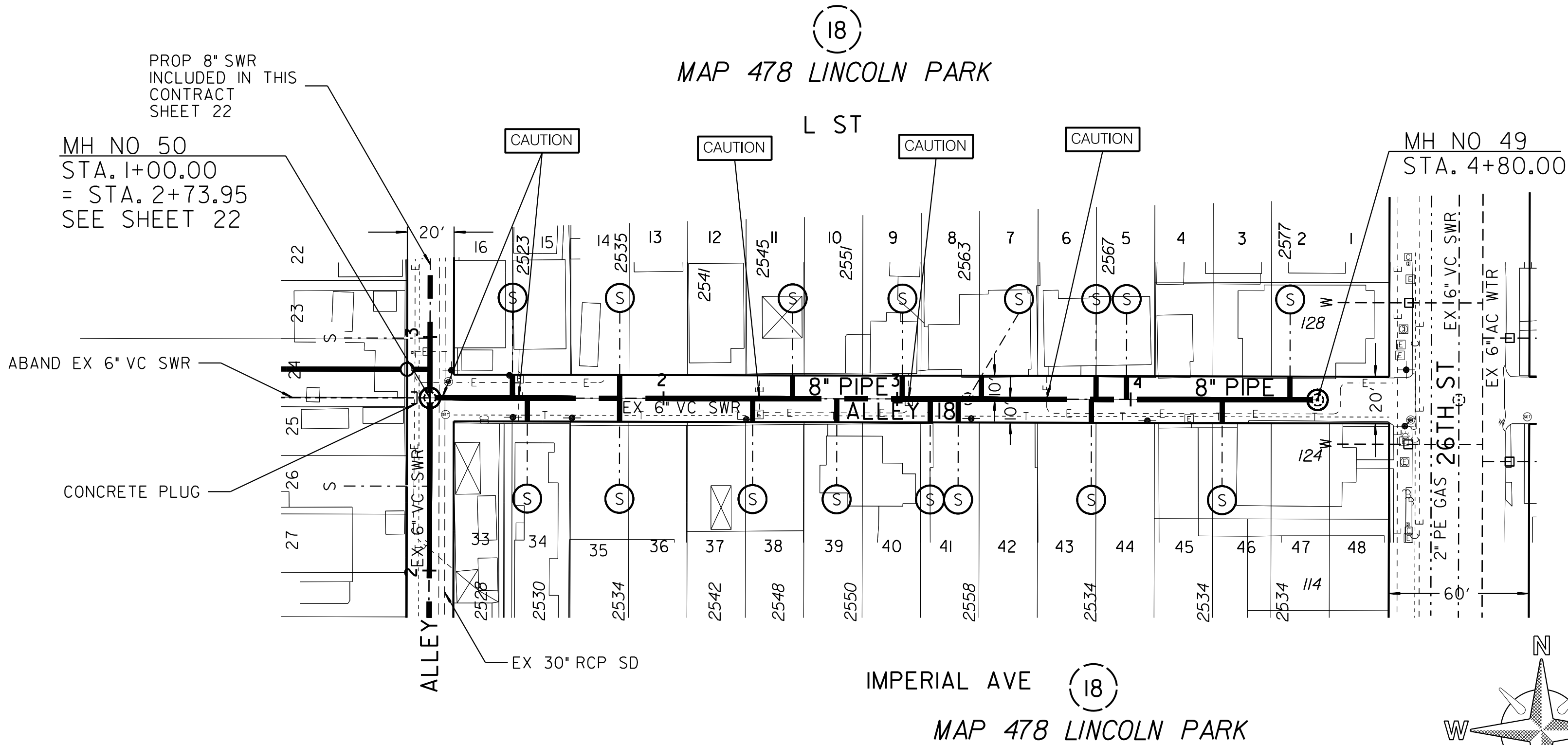
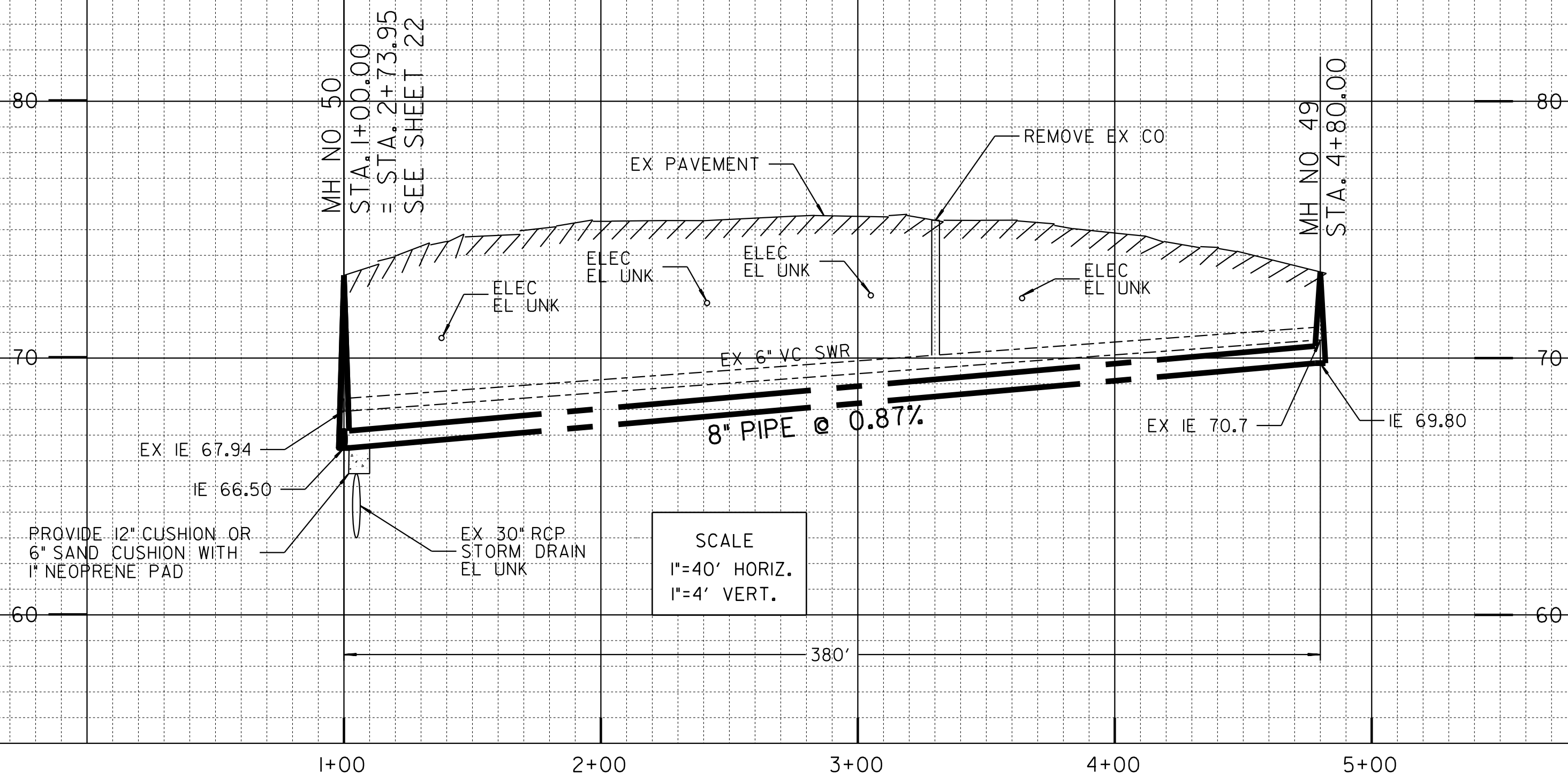
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ALLEY/ BLOCK 18

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 4+80	380
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: ALLEY/ BLOCK 18 - BTWN 25TH ST & 26TH ST

POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1838140.67	6288026.47	STRAIGHT	S89° 52'11"E	D=380.00
POE	4+80.00	1838139.80	6288406.47			



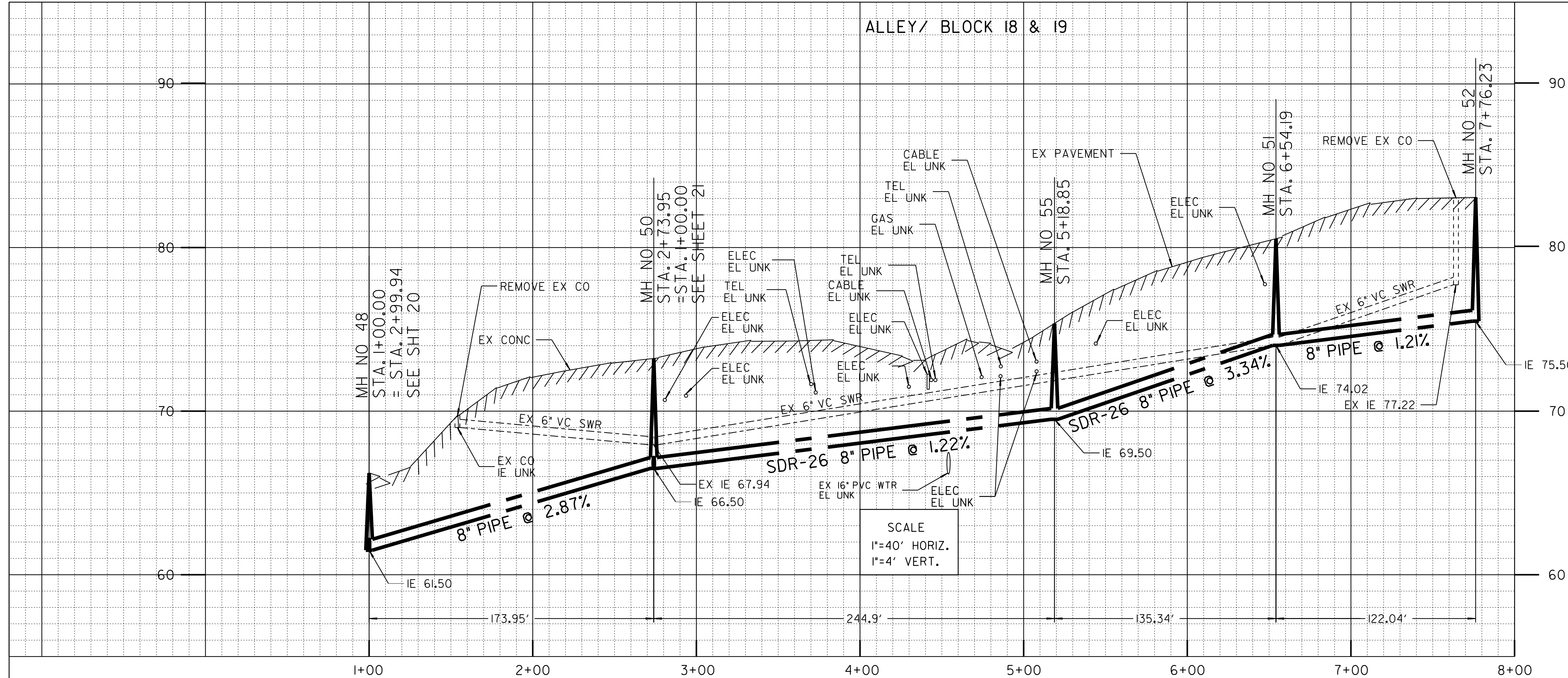
REFERENCE:
WATER: 26538-5-D, 34696-II-D
SEWER: 200-27-L, 3824-L
STORM DRAIN: 754-L, I223-L, I224-L,
GAS: SDGE I5960-II8725, I5975-II8725
ELECTRIC: SDGE I5960-II8725, I5975-II8725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB I
TELEPHONE: ATT: PAGE A469, BMB-1986
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: 194-1725, H23S
THOMAS BROS.: I289C
HGL: 390
ROS: CR 33481

RETIREMENTS:
6" - VC - 254.43' - 1915
6" - VC - 380' - 1915
CO - 1 - 1915
4" LATERAL - 16 - UNK - UNK

C-19

SEWER & WATER GROUP 793	
ALLEY BLOCK 18	
BTWN BLOCK 492 & WO 26TH ST	
CITY OF SAN DIEGO, CALIFORNIA	
PUBLIC WORKS DEPARTMENT	
SHEET 22 OF 57 SHEETS	
APPROVED:	DATE
FOR CITY ENGINEER	DATE
PRINT: DGE NAME	DATE
DESCRIPTION	BY
ORIGINAL	BP/SJ
APPROVED	DATE
FILED	DATE
SUBMITTED BY	
ELHAM LOTFI	
PROJECT MANAGER	
CHECKED BY	
BAREAZ PIOMARI	
PROJECT ENGINEER	
194-1725	
CCS27 COORDINATE	
1834-6285	
CCS83 COORDINATE	
40208-21-D	

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 5+50	450
STA. 6+40	STA. 7+55	115
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: ALLEY / BLOCK 18 & 19- IMPERIAL AVE TO K ST

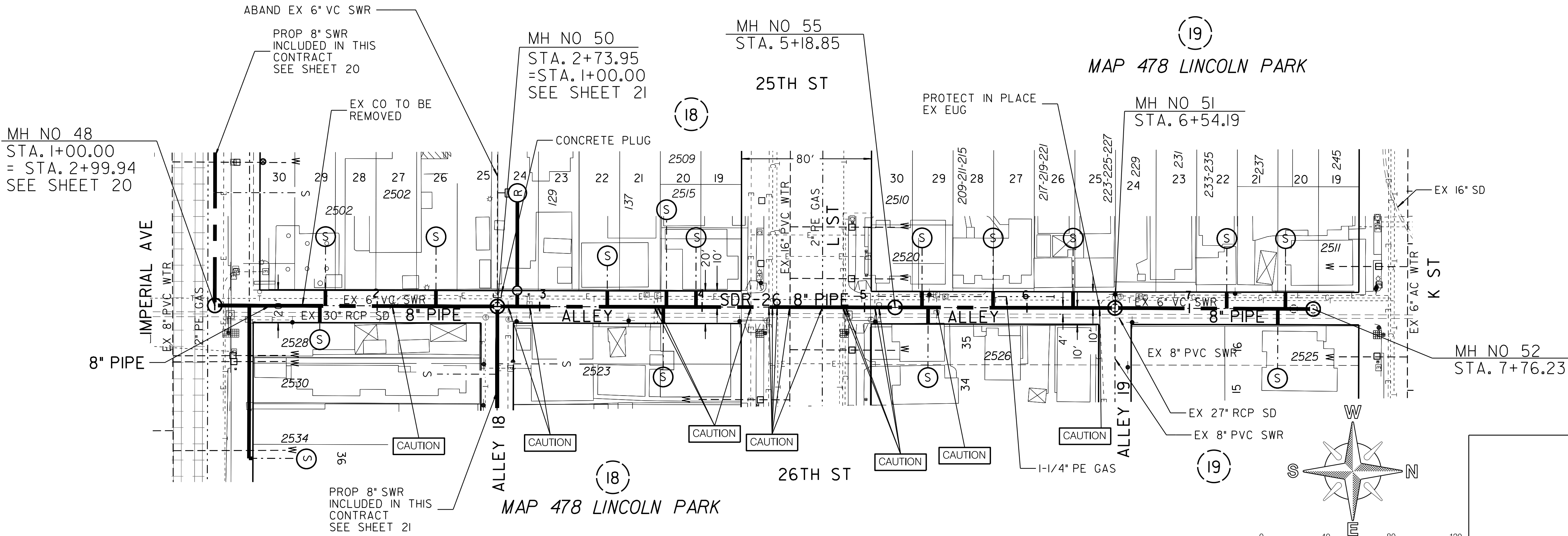
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837966.71	6288025.86	STRAIGHT	N 0° 12' 10" E	D = 173.95
PI	2+73.95	1838140.67	6288026.47	STRAIGHT	N 0° 07' 59" E	D = 244.90
PI	5+18.85	1838385.56	6288027.04	STRAIGHT	N 0° 08' 57" E	D = 135.34
PI	6+54.19	1838520.90	6288027.40	STRAIGHT	N 0° 17' 52" E	D = 122.04
POE	7+76.23	1838642.94	6288028.03			

REFERENCE:

WATER: 14605-7-D, 34696-13-D
SEWER: 200-L
STORM DRAIN: 754-L, 1691-L
GAS: SDGE 15967-118725, 15967-118730
15975-118725, 15975-118730
ELECTRIC: SDGE 15967-118725, 15967-118730
15975-118725, 15975-118730
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMA-1984, BMB-1984
IMPROVEMENTS: 3824-L
100' SCALE/FIELD BOOK: 198-1725, H22S
THOMAS BROS.: 1289 D-4
HGL: 390

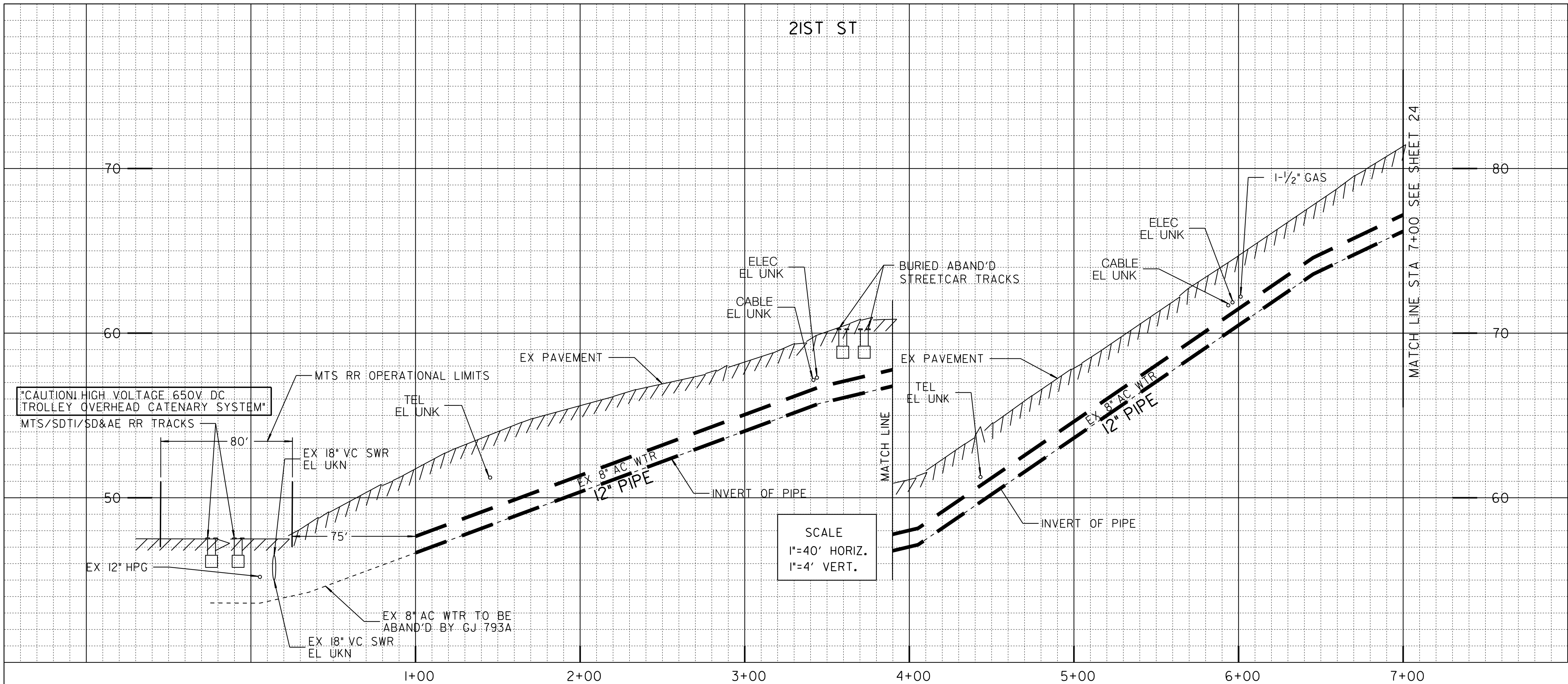
RETIREMENTS:

6" - VC - 120' - 1955
6" - VC - 380.24' - 1929
6" - VC - 110' - 1915
MH - 4X3 - 1- 1929
MH - 4X3 - 1- 1915
CO - 1- UNK
4" - LATERAL - 14 - UNK - UNK



SEWER & AC WATER GROUP 793
ALLEY/BLOCK 18 & 19
IMPERIAL AVE AND K ST

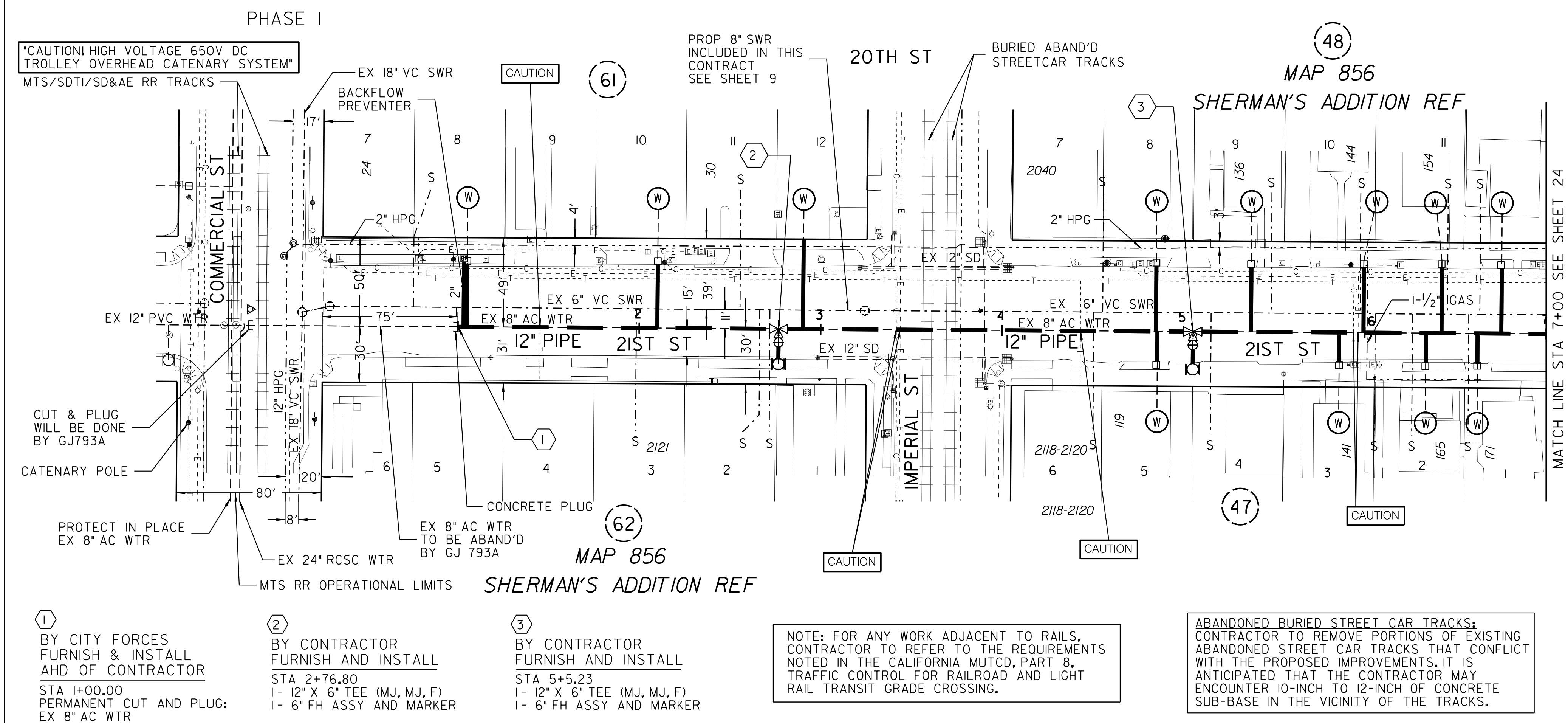
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 23 OF 57 SHEETS		WATER WBS B-15070 SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DATE NAME DATE C59403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED DATE FILMED
194-1725, 198-1725 CCS27 COORDINATE		1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED
41208-22-D		



ALIGNMENT: 21ST ST- COMMERCIAL ST TO K ST

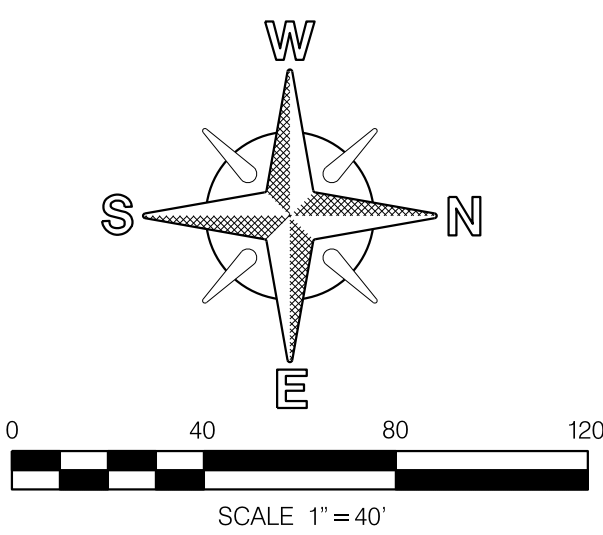
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	1837674.08	6286394.04	STRAIGHT	NO° 22'29"E	D=176.80
PI	2+76.80	1837850.87	6286395.19	STRAIGHT	NO° 22'22"E	D=458.48
PI	5+05.23	1838079.30	6286396.68	STRAIGHT	NO° 22'25"E	D=230.05

HIGHLINING NOTE:
21ST STREET TO BE HIGHLINED BY CITY FORCES
FROM STA. 1+00.00 TO STA. 7+00.00
PRIOR TO CONSTRUCTION, CITY TO FURNISH
ALL HIGHLINING MATERIALS AND MAKE ALL CONNECTIONS.

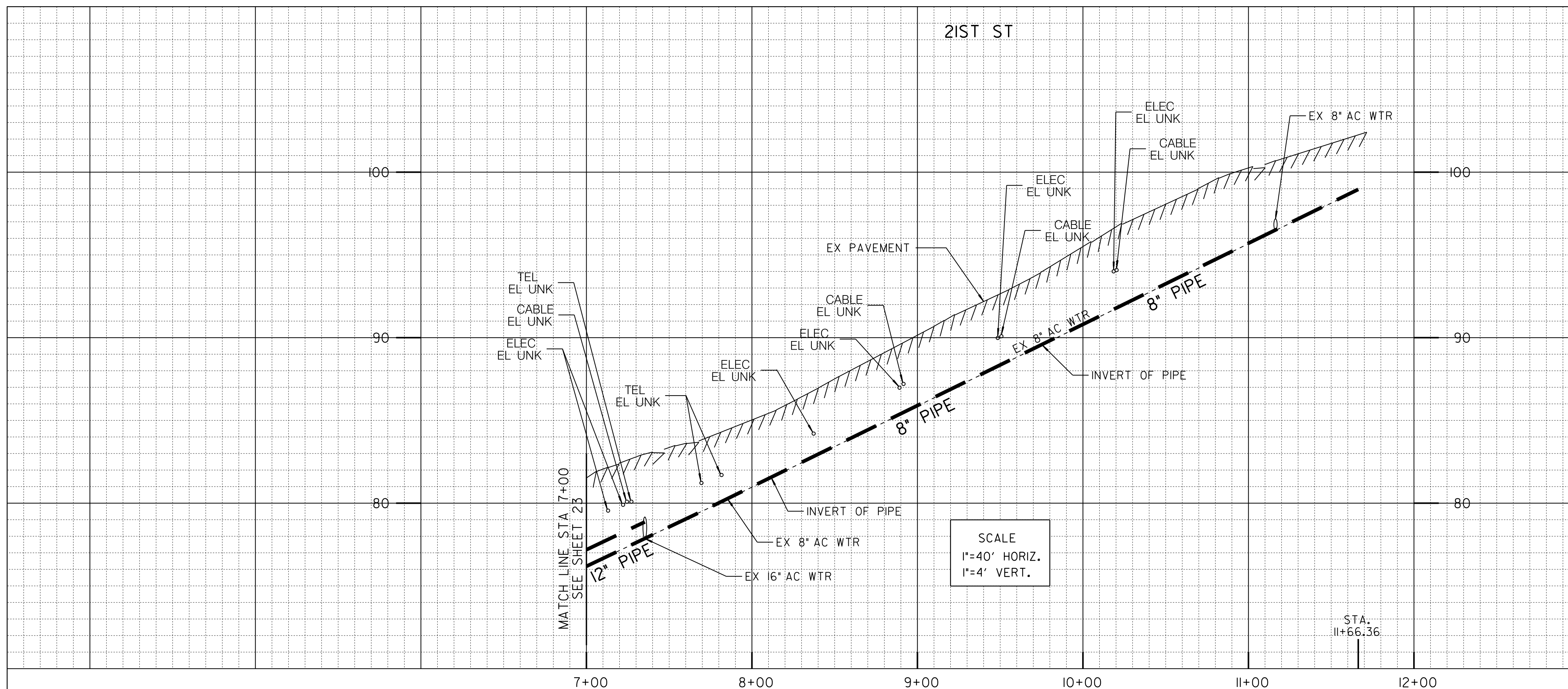


REFERENCE:
WATER: 9561-2-D
SEWER: 9561-2-D, 21198-7-D
STORM DRAIN: 11331-4-D, 7436-1-L
GAS: 15952-118720, 15952-118725
ELECTRIC: 15952-118735
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1984
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: 198-1722, G22S
THOMAS BROS.: 1289 C4
HGL: 390

RETIREMENTS:
8" - AC - 690.84' - 1960
FH (2-PORT) - 1
1" SERVICE - 11 - UNK - COPPER



SEWER & AC WATER GROUP 793	
21ST STREET	
NO COMMERCIAL ST TO NO IMPERIAL ST	
CITY OF SAN DIEGO, CALIFORNIA	
PUBLIC WORKS DEPARTMENT	
SHEET 25 OF 57 SHEETS	
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT NAME	DATE C59403 RCE#
DESIGNATION ORIGINAL	BY BP/DC
APPROVED	DATE
FILMED	
SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER	
CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
194-1719, 198-1719 CCS27 COORDINATE	
1834-6279, 1838-6279 CCS83 COORDINATE	
41208-23-D	
DATE STARTED	
DATE COMPLETED	



ALIGNMENT: 21ST ST- COMMERCIAL ST TO K ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
PI	7+35.28	1838309.34	6286398.18	STRAIGHT	N0° 15'48"E	D=381.07
PI	11+16.35	1838690.41	6286399.93	STRAIGHT	N0° 21'32"E	D=50.01
POE	11+66.36	1838740.42	6286400.24			

HIGHLINING NOTE:
21ST STREET TO BE HIGHLINED BY CITY FORCES
FROM STA. 7+00.00 TO STA. 11+66.36
PRIOR TO CONSTRUCTION. CITY TO FURNISH
ALL HIGHLINING MATERIALS AND MAKE ALL CONNECTIONS.

REFERENCE:

WATER: 9561-2-D, 34696-10-D, 34696-11-D, 34696-10-D
14605-6-D, 14294-0-L

SEWER: 21198-7-D, 14031-2-D
STORM DRAIN: N/A
GAS: 15952-118720, 15952-118725
ELECTRIC: 15952-118720, 15952-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB I

RETIREMENTS:

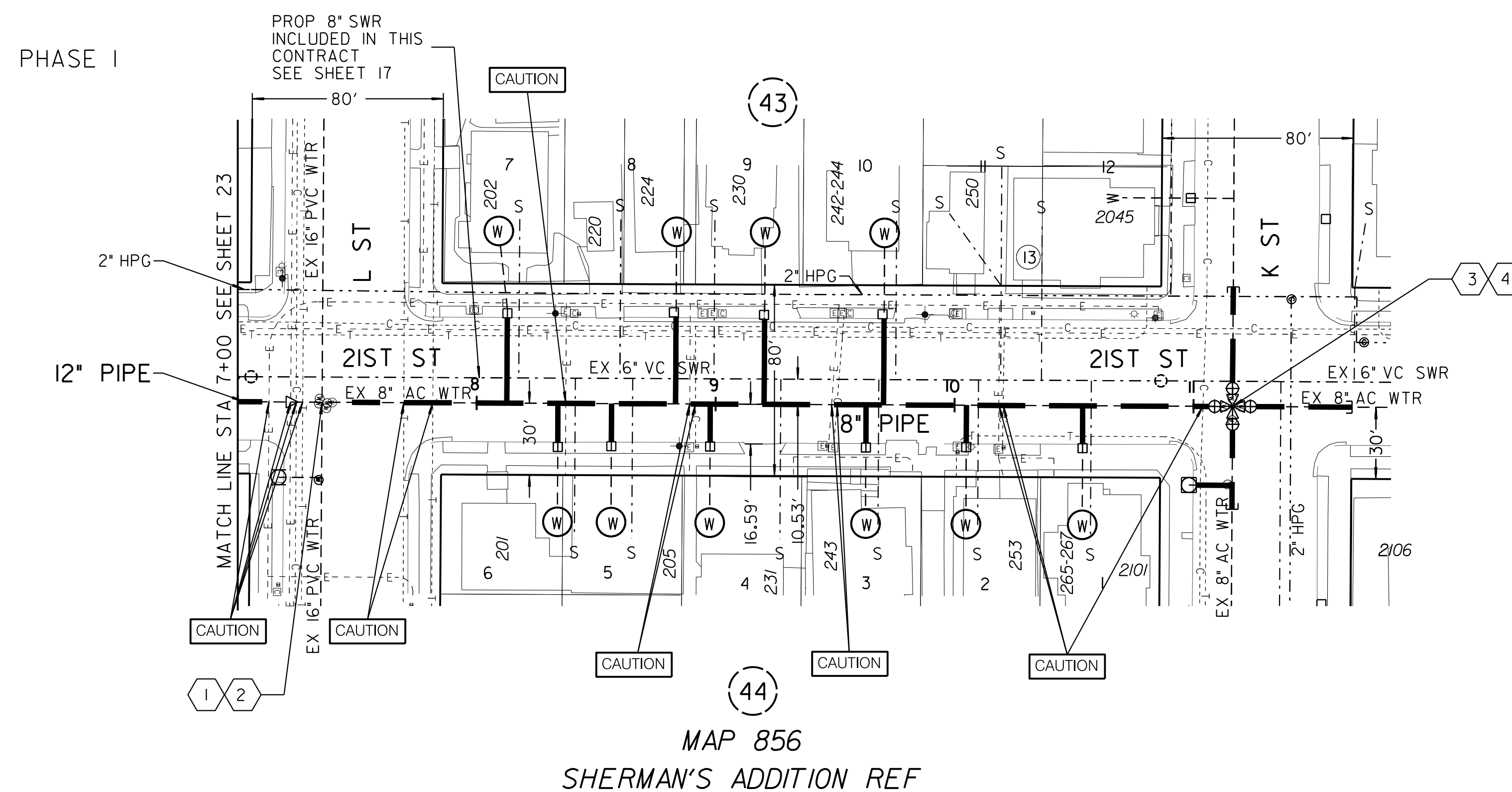
8" - AC - 59.95' - 1960
8" - AC - 381.07' - 1971
1" SERVICE - II - UNK - UNK

BY CITY FORCES
AHD OF CONTRACTOR
STA 7+35.28
CLOSE 8" VALVES BK , AHD
AFTER NEW MAIN HAS BEEN
ACCEPTED
OPEN VALVES BK , AHD

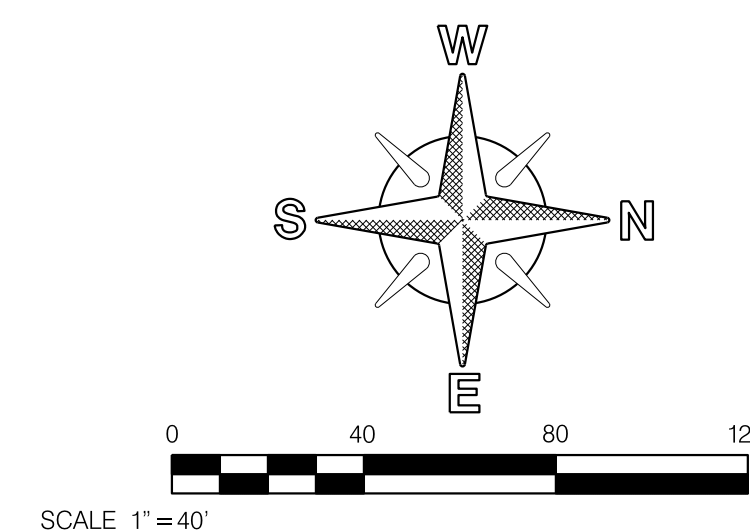
2
BY CONTRACTOR
FURNISH AND INSTALL
STA 7+35.28
1- 8" X 12" REDUCER (MJ) BK

3
BY CITY FORCES
AHD OF CONTRACTOR
STA 11+16.35
CUT AND PLUG:
EX 8' AC WTR, 50' LT
EX 8' AC WTR, 50' RT
EX 8' AC WTR, 30' AHD
RECONNECT AFTER NEW
HAS BEEN ACCEPTED

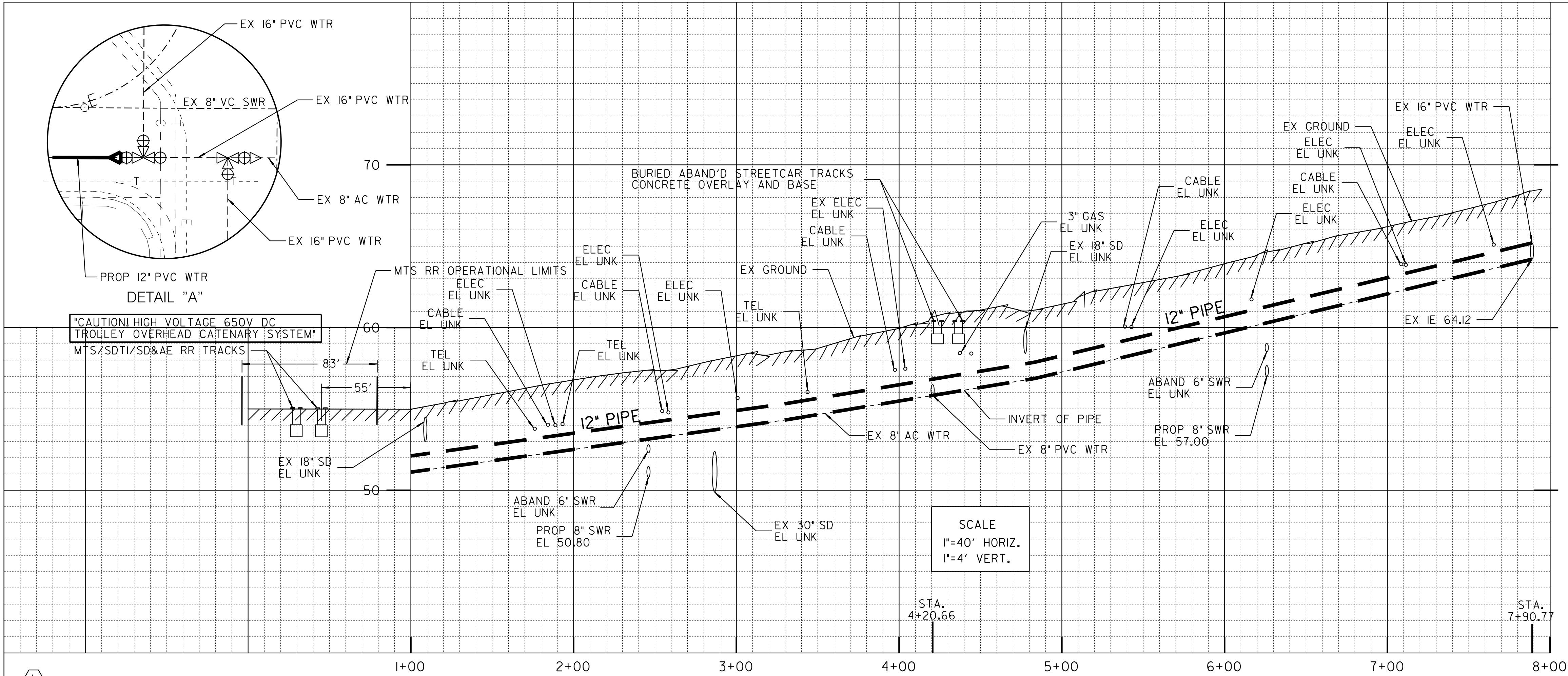
④
BY CONTRACTOR
FURNISH AND INSTALL
STA 11+16.35
1- 8" X 8" CROSS (F)
4 - 8" VALVES (F, MJ) RT, LT, BK, AHD
50' 8" PIPE, LT
30' 8" PIPE, RT
30' 8" PIPE, AHD
1- 8"X6" TEE (MJ,MJ,F), ±40FT RT
1- 6" FM ASSY AND MARKER



C-22



SEWER & <u>AC WATER</u> GROUP 793					
21ST STREET					
SO L ST TO K ST					
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 26 OF 57 SHEETS					WATER WBS B-I5070 SEWER WBS B-00394
APPROVED: _____ DATE _____ FOR CITY ENGINEER _____ SHEILA BOSE _____ C59403 PRINT DCE NAME _____ RICE# _____					
SUBMITTED BY: _____ ELHAM LOTFI PROJECT MANAGER CHECKED BY: _____ BAREAZ PIROMARI PROJECT ENGINEER					
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	BP/DC				
DATE COMPLETED _____					194-1719, 198-1719 CCS27 COORDINATE 1640-1834, 1838-6279 CCS53 COORDINATE
					41208-24-D



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGIN STATION	END STATION	APPROXIMATE LF
STA. 2+50	STA. 4+10	160
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).		

ALIGNMENT: 24TH ST- COMMERCIAL ST TO L ST						
POINT	STATION	NORTHING (Y)	EASTING (X)	ELEMENT	BRG/DELTA	DIST/LENGTH
POB	1+00.00	18371616.26	6287154.81	STRAIGHT	N0° 06'12"E	D=153.00
PI	2+53.00	1837769.26	6287155.09	STRAIGHT	N11° 12'24"W	D=31.10
PI	2+84.10	1837799.77	6287149.04	STRAIGHT	N0° 04'28"E	D=106.97
PI	3+91.07	1837906.74	6287149.18	STRAIGHT	N22° 23'18"E	D=16.30
PI	4+07.37	1837921.81	6287155.39	STRAIGHT	N0° 04'24"E	D=15.00
PI	4+22.40	1837936.84	6287155.41	STRAIGHT	N0° 06'36"E	D=190.89
PI	6+13.29	1838127.73	6287155.78	STRAIGHT	N0° 06'36"E	D=177.48
POE	7+90.77	1838305.21	6287156.12			

CONTRACTOR'S NOTE:
WATER MAIN JOINTS TO BE AT LEAST 8 FEET AWAY
FROM THE OUTSIDE DIAMETER OF STORM DRAIN CROSSING

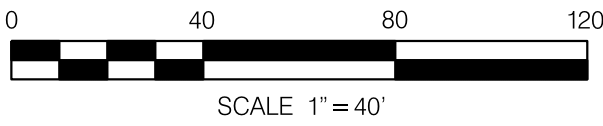
HIGHLINING NOTE:
24TH STREET TO BE HIGHLINED BY CITY FORCES
FROM STA. 1+00.00 TO STA. 7+90.77 PRIOR TO
CONSTRUCTION. CITY TO FURNISH
ALL HIGHLINING MATERIALS AND MAKE ALL CONNECTIONS.

NOTE: FOR ANY WORK ADJACENT TO RAILS,
CONTRACTOR TO REFER TO THE REQUIREMENTS
NOTED IN THE CALIFORNIA MUTCD, PART 8,
TRAFFIC CONTROL FOR RAILROAD AND LIGHT
RAIL TRANSIT GRADE CROSSING.

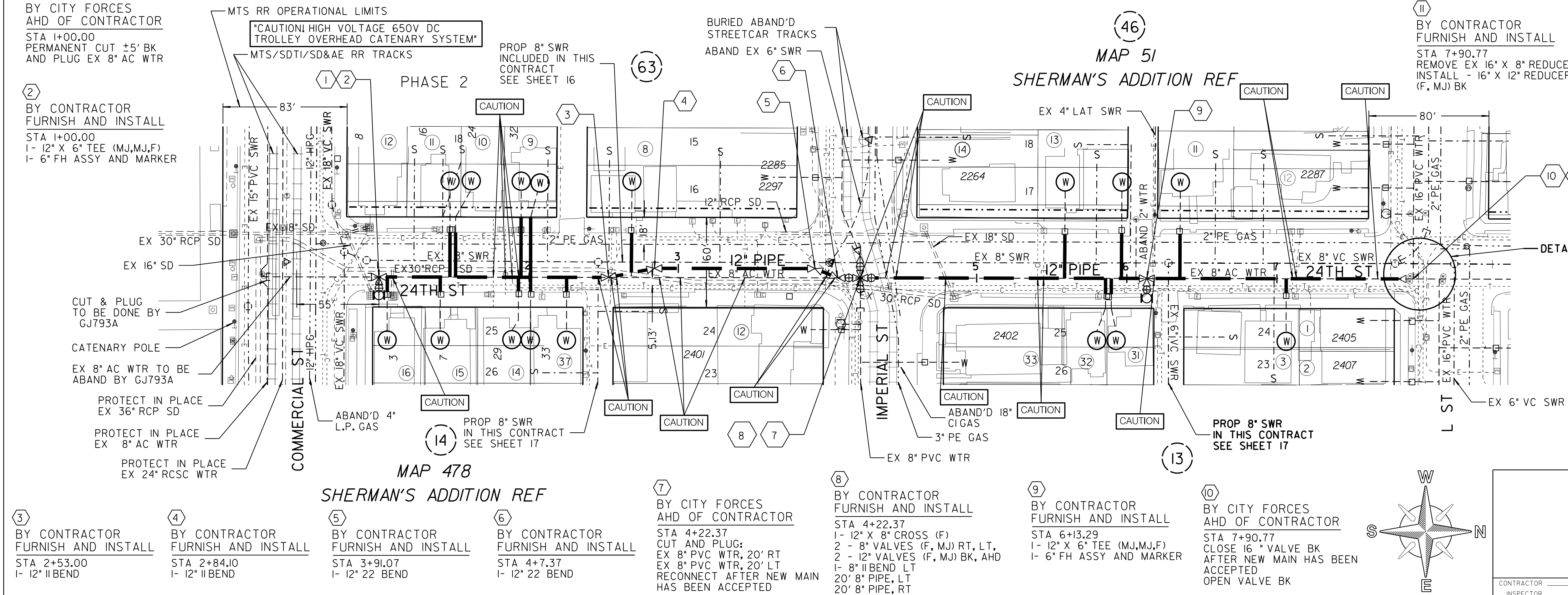
ABANDONED BURIED STREET CAR TRACKS:
CONTRACTOR TO REMOVE PORTIONS OF EXISTING
ABANDONED STREET CAR TRACKS THAT CONFLICT
WITH THE PROPOSED IMPROVEMENTS. IT IS
ANTICIPATED THAT THE CONTRACTOR MAY
ENCOUNTER 10-INCH TO 12-INCH OF CONCRETE
SUB-BASE IN THE VICINITY OF THE TRACKS.

REFERENCE:
WATER: 11388-9-D, 12361-6-7-D, 13503-13-L, 14552-L,
14605-3-4-6-7-D, 34696-11-12-D
SEWER: 200, 21198-10-D, 17270-2-D
STORM DRAIN: 1818-L, 5283-L, 11388-9-D, 20457-1-D,
GAS: SDGE MAP 15960-118720, 15960-118725
ELECTRIC: SDGE MAP 15960-118720, 15960-118725
CABLE TV: COX COMMERCIAL ST 28TH ST 20A CONV 32917
FILE NO 26436 SERMAN 8G 20SD JOB 1
TELEPHONE: ATT: PAGE A469, BMB-1984
IMPROVEMENTS: SD ELECTRIC RAILWAYS CO, SHEETS 10 & 11
100' SCALE/FIELD BOOK: 198-1725, 196-1725/H23S
THOMAS BROS.: 1289C
HGL: 390

RETIREMENTS:
8" - AC - 398.64' - 1960
8" - AC - 368.37' - UNK
FH (2-PORT) - 1
1" SERVICE - 17 - UNK - UNK

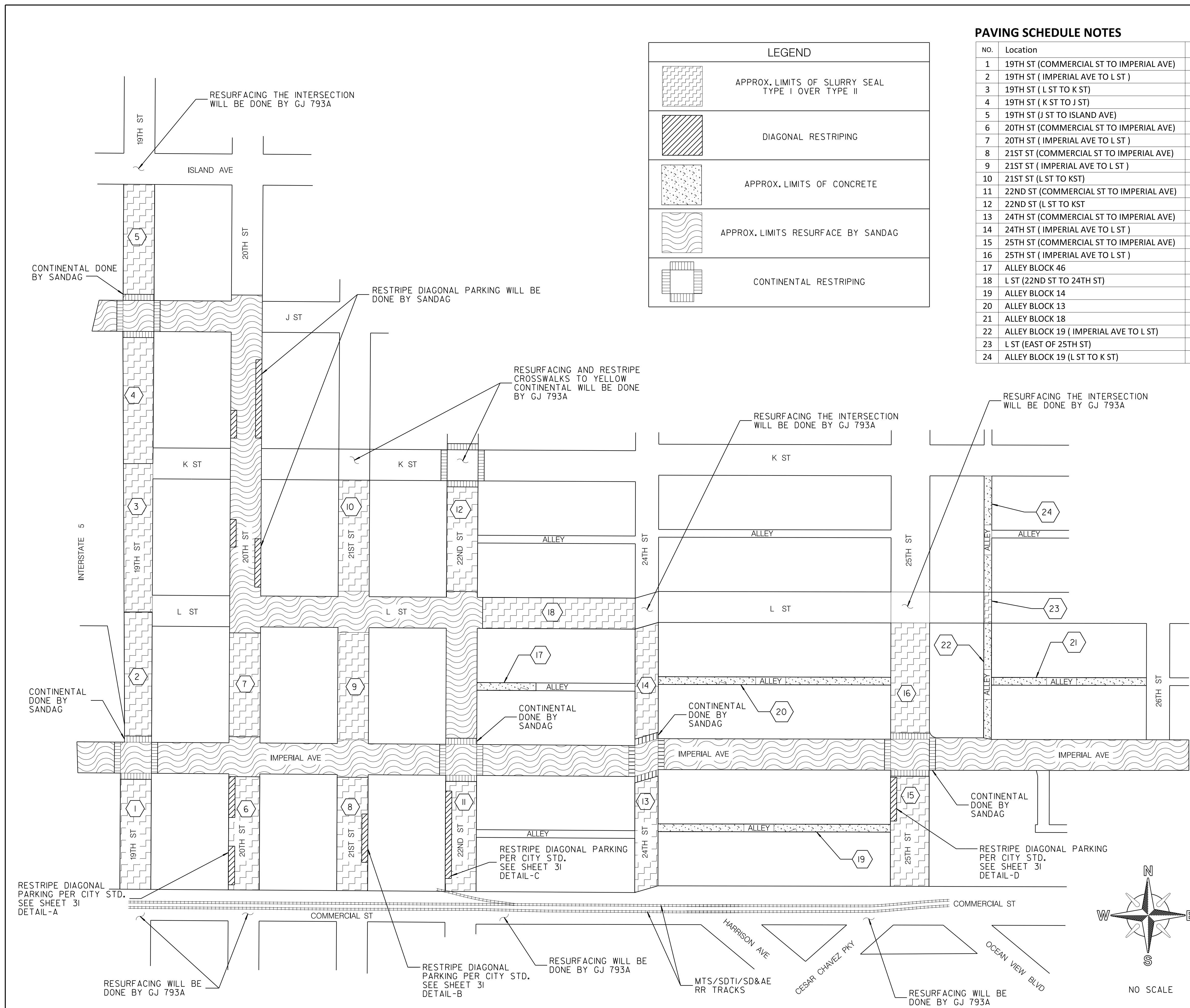


C-23



SEWER & AC WATER GROUP 793 24TH STREET NO COMMERCIAL ST TO L ST		
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 27 OF 57 SHEETS		WATER WBS B-15070 SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT TITLE NAME	DATE C59403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED DATE FILMED
DATE STARTED DATE COMPLETED		194-1725, 198-1725 CCS27 COORDINATE 1834-6285, 1838-6285 CCS83 COORDINATE 41208-25-D

STREET RESURFACING PLAN

[illegible]

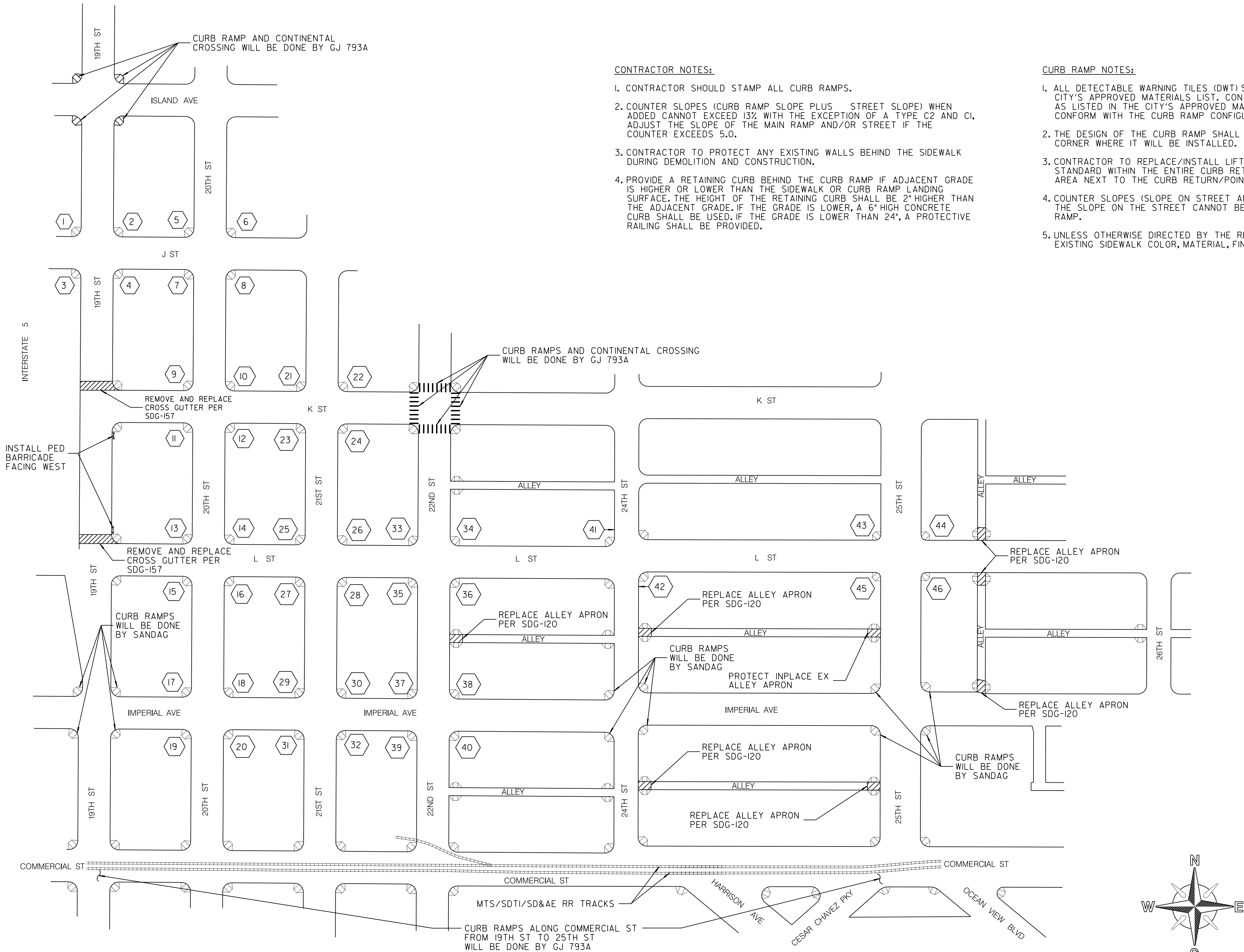
C-24

SEWER & AC WATER GROUP 793
STREET RESURFACING PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 26 OF 57 SHEETS					WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: _____ FOR CITY ENGINEER _____ DATE _____ SHEILA BOSE C59403 PRINT DCE NAME RCE#					SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIOMARI PROJECT ENGINEER	
DESCRIPTION		BY	APPROVED	DATE	FILMED	
ORIGINAL		BP/DC				
CONTRACTOR _____ INSPECTOR _____					DATE STARTED _____ DATE COMPLETED _____	
					194-1719, 198-1719 CCS27 COORDINATE 1834-6279, 1838-6279 CCS83 COORDINATE 41208-26-D	

100% DESIGN

CURB RAMP LOCATION



CONTRACTOR NOTES:

- 1. CONTRACTOR SHOULD STAMP ALL CURB RAMP.
- 2. COUNTER SLOPES (CURB RAMP SLOPE PLUS STREET SLOPE) WHEN ADDED CANNOT EXCEED 13% WITH THE EXCEPTION OF A TYPE C2 AND C1. ADJUST THE SLOPE OF THE MAIN RAMP AND/OR STREET IF THE COUNTER EXCEEDS 5.0.
- 3. CONTRACTOR TO PROTECT ANY EXISTING WALLS BEHIND THE SIDEWALK DURING DEMOLITION AND CONSTRUCTION.
- 4. PROVIDE A RETAINING CURB BEHIND THE CURB RAMP IF ADJACENT GRADE IS HIGHER OR LOWER THAN THE SIDEWALK OR CURB RAMP LANDING SURFACE. THE HEIGHT OF THE RETAINING CURB SHALL BE 2" HIGHER THAN THE ADJACENT GRADE. IF THE GRADE IS LOWER, A 6" HIGH CONCRETE CURB SHALL BE USED. IF THE GRADE IS LOWER THAN 24", A PROTECTIVE RAILING SHALL BE PROVIDED.

CURB RAMP NOTES:

- 1. ALL DETECTABLE WARNING TILES (DWT) SHALL BE CAST-IN-PLACE STAINLESS STEEL PER THE CITY'S APPROVED MATERIALS LIST. CONTRACTOR MAY USE NON-STAINLESS STEEL DWT MATERIAL AS LISTED IN THE CITY'S APPROVED MATERIALS LIST IF THE TILE NEEDS TO BE TRIMMED TO CONFORM WITH THE CURB RAMP CONFIGURATION.
- 2. THE DESIGN OF THE CURB RAMP SHALL NOT AFFECT THE DRAINAGE PATTERN AT THE STREET AND CORNER WHERE IT WILL BE INSTALLED.
- 3. CONTRACTOR TO REPLACE/INSTALL LIFTED, DAMAGED OR MISSING SIDEWALK PANELS TO CITY STANDARD WITHIN THE ENTIRE CURB RETURN/POINT OF CURB RADIUS AND ALONG THE IMMEDIATE AREA NEXT TO THE CURB RETURN/POINT OF CURB RADIUS.
- 4. COUNTER SLOPES (SLOPE ON STREET AND CURB RAMP SLOPE) WHEN ADDED CANNOT EXCEED 13%. IF THE SLOPE ON THE STREET CANNOT BE ADJUSTED, LOWER THE MAIN RAMP SLOPE OF THE CURB RAMP.
- 5. UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL MATCH THE EXISTING SIDEWALK COLOR, MATERIAL, FINISH AND PATTERN.

LEGEND

8

CURB RAMP NO's

•

EX UTILITY POLE

○

EX FIRE HYDRANT

T

EX TREE

↑

EX STREET SIGN

◇

EX STREET LIGHT

△

EX CURB RAMP

—|—

PED BARRICADE

PROPOSED CURB RAMP PER STANDARD DRAWINGS:

EX STAMP/IMPRESSION PLACEMENT

SDG-115

REPLACE ALLEY APRON

SDG-120

DETECTABLE WARNING TILES

SDG-130

GENERAL CURB RAMP NOTES

SDG-131

GENERAL CURB RAMP NOTES

SDG-132

& SUPPLEMENTAL DETAILS

CURB RAMP A & B

SDG-133

DUAL CURB RAMP

SDG-134

CURB RAMP - TYPE C1 & C2

SDG-135

CURB RAMP - TYPE C1 & C2

SDG-136

& MORE DETAILS

CURB RAMP - TYPE D

SDG-137

GENERAL CURB RAMP

SDG-138

ISLAND AND PASSAGEWAY DETAILS

SDG-139

CURB RAMP BARRICADE

SDG-140

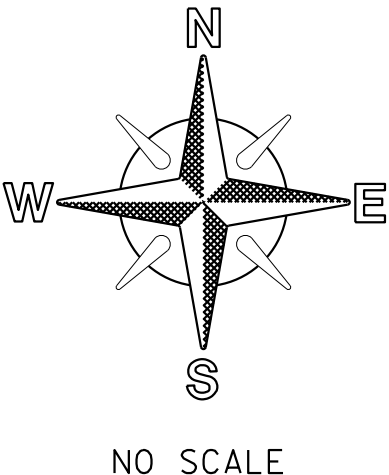
BLENDED TRANSITION

C-25

SEWER & AC WATER GROUP 793

CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA				WATER WBS	B-15070
PUBLIC WORKS DEPARTMENT				SEWER WBS	B-00394
SHEET 27 OF 57 SHEETS					
APPROVED:		DATE		SUBMITTED BY:	
FOR CITY ENGINEER		SHEILA BOSE		ELHAM LOTFI	
PRINT DATE NAME		RCEP# C59403		PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FILMED	CHECKED BY:
ORIGINAL	BP/DC				BAREAZ PIROMARI
					PROJECT ENGINEER
					194-1725, 198-1725
					CCS27 COORDINATE
					1834-6285, 1838-6285
					CCS83 COORDINATE
CONTRACTOR		DATE STARTED		41208-27-D	
INSPECTOR		DATE COMPLETED			

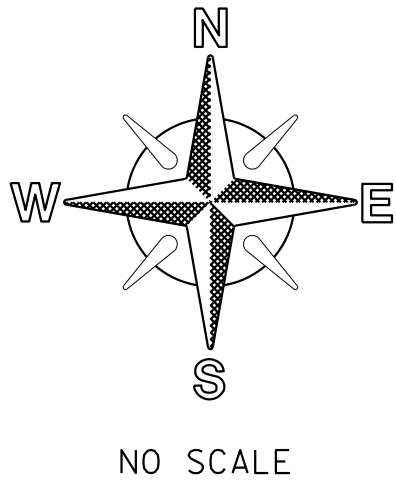


CURB RAMP NOTES TABLE

LOCATION NO.	CURB RAMP		APPROX. R/W	REPLACEMENT	NEW	HISTORIC STAMPS	SURVEY MARKER	BARRICADE TYPE	MISC SIGN	DETECTABLE WARNING TILES		COMMENTS / MODIFICATIONS
	TYPE	CASE								STAINLESS STEEL	OTHER	
1	A		10	X		X						DUAL CURB RAMPS
2	A		10	X		X						DUAL CURB RAMPS; RELOCATE THE STOP LIMIT LINE; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; RELOCATE STREET NAME & STOP SIGNS
3	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE LIGHT POLE
4	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE FIRE HYDRANT, LIGHT POLE & UTILITY BOX
5	A		10	X								DUAL CURB RAMPS
6	A		10	X								DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE
7	A		10	X								DUAL CURB RAMPS; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; RELOCATE STOP LIMIT LINE
8	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE FIRE HYDRANT
9	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE LIGHT POLE
10	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE YIELD SIGN
11	A		10	X								DUAL CURB RAMPS; RELOCATE YIELD SIGN POLE & YIELD LIMIT LINE
12	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE FIRE HYDRANT & LIGHT POLE
13	A		10	X								DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE
14	A		10	X		X						DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE
15	A		10	X								DUAL CURB RAMPS; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; RELOCATE STOP LIMIT LINE
16	C-2		10	X								BLEND TRANSITION; PROTECT IN PLACE FIRE HYDRANT; RELOCATE STOP LIMIT LINE
17	C-2		10	X								BLEND TRANSITION; PROTECT IN PLACE EXISTING CURB INLET & LIGHT POLE
18	A		10	X								SINGLE CURB RAMP WITH AN 8' OR WIDER RAMP OPENING; PROTECT IN PLACE UTILITY BOX AND LIGHT POLE
19	C-2		10	X								BLEND TRANSITION; PROTECT IN PLACE EXISTING CURB INLET
20	C-2		10	X								DUAL CURB RAMPS; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; RELOCATE STOP LIMIT LINE; PROTECT IN PLACE FIRE HYDRANT
21	A		10	X								DUAL CURB RAMPS; REMOVE EXISTING TWO PALM TREES
22	A		10	X								DUAL CURB RAMPS; REMOVE TREE TRUNK; RELOCATE STOP LINE LIMIT
23	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE UTILITY BOX; RELOCATE STOP LIMIT LINE
24	A		10	X								DUAL CURB RAMPS; RELOCATE FIRE HYDRANT; RELOCATE STREET NAME SIGN WITHIN FLARE
25	A		10			X						DUAL CURB RAMPS; RELOCATE STREET NAME POLE
26	A			X								DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE
27	A			X								BLENDED TRANSITION
28	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE FIRE HYDRANT
29	C-2		10		X	X						BLENDED TRANSITION; PROTECT IN PLACE EXISTING INLETS; PROTECT IN PLACE PUSH BUTTON POLE
30	A		10		X							BLENDED TRANSITION; PROTECT IN PLACE PUSH BUTTON POLE; PROTECT IN PLACE EXISTING INLETS

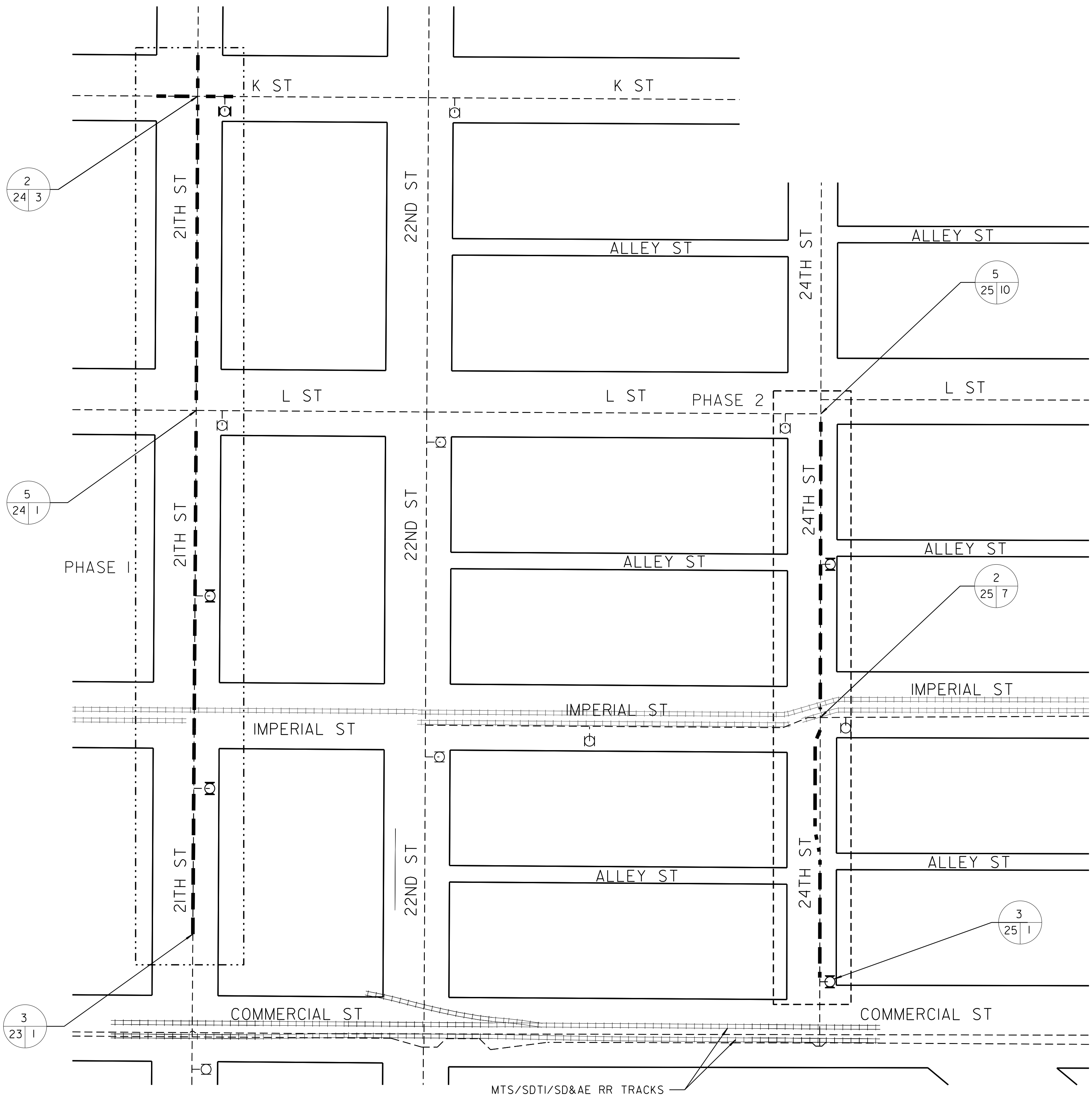
LOCATION NO.	CURB RAMP		APPROX. R/W	REPLACEMENT	NEW	HISTORIC STAMPS	SURVEY MARKER	BARRICADE TYPE	MISC SIGN	DETECTABLE WARNING TILES		COMMENTS / MODIFICATIONS
	TYPE	CASE								STAINLESS STEEL	OTHER	
31	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE PUSH BUTTON POLE; PROTECT IN PLACE EXISTING INLETS
32	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE EXISTING INLET
33	A		10	X								DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE
34	A		10	X								DUAL CURB RAMPS; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; RELOCATE STOP LIMIT LINE
35	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE FIRE SERVICE TRACSITION
36	A		10	X								DUAL CURB RAMPS; PROTECT IN PLACE FIRE HYDRANT; RELOCATE STOP LIMIT LINE
37	A		10	X								RELOCATE THE POLE WITHIN THE FLARE; RELOCATE STOP LIMIT LINE; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; PROTECT IN PLACE EX TREE
38	A		10	X								DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE
39	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE POST OFFICE BOX
40	A		10	X								BLENDED TRANSITION; PROTECT IN PLACE FIRE HYDRANT
41	A		10		X	X						PROTECT EXISTING CURB RAMP & INSTALL NEW CURB RAMP ADJACENT TO EXISTING
42	B		10		X							PROTECT EXISTING CURB RAMP & INSTALL NEW CURB RAMP ADJACENT TO EXISTING
43	C-2		8	X		X						DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE; RELOCATE LIGHT POLE TO BE WITHIN THE FLARE; REMOVE EXISTING TREE
44	A		10	X		X						BLENDED TRANSITION; RELOCATE STOP LIMIT LINE; PROTECT IN PLACE EXISTING INLETS
45	A		10	X								DUAL CURB RAMPS; RELOCATE STOP LIMIT LINE; RELOCATE STREET NAME SIGN POLE; LIGHT POLE TO BE PROTECTED IN PLACE WITHIN THE FLARE; PROTECT IN PLACE EXISTING TREE
46	A		10	X		X						BLENDED TRANSITION; PROTECT IN PLACE EXISTING INLET; PROTECT IN PLACE FIRE HYDRANT; RELOCATE STOP LIMIT LINE

C-26



SEWER & AC WATER GROUP 793	
CURB RAMP LOCATION	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 28 OF 57 SHEETS	
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DGE NAME	DATE RCEP C59403
DESCRIPTION	BY
ORIGINAL	BP/DC
	APPROVED
	DATE
	FILMED
SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER	
CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
194-1725, 198-1725 CCS27 COORDINATE	
1834-6285, 1838-6285 CCS83 COORDINATE	
41208-28-D	
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED

WORK BY CITY FORCES



LEGEND

- EXISTING WATER MAIN
- PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- FIRE HYDRANT TO BE REPLACED

- CITY FORCES NOTE NUMBER (THIS SHEET)
- CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
- PLAN & PROFILE "D" SHEET NUMBER

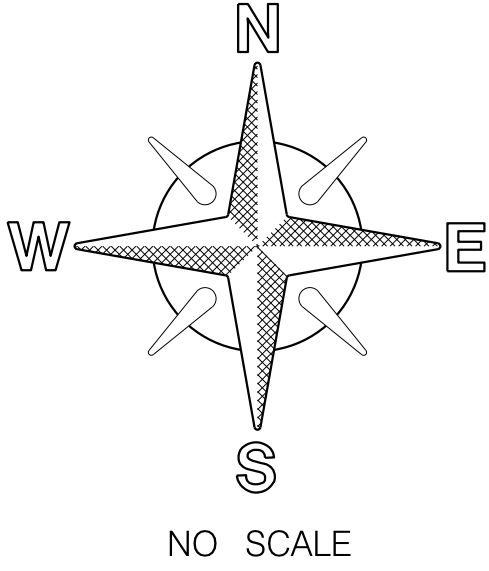
BC --- BEFORE CONTRACTOR
AC --- AFTER CONTRACTOR

WORK BY CITY FORCES

- BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)
AC - RECONNECT. OPEN VALVE(S)
- BC - CUT & PLUG
AC - RECONNECT
- BC - CUT AND ABANDON
- AC - WET TAP
- BC - CLOSE EX. VALVE (REPLACE IF NEEDED)
AC - OPEN EX. VALVE

AREA TO BE HIGHLINED IN PHASES

- PHASE 1
- PHASE 2



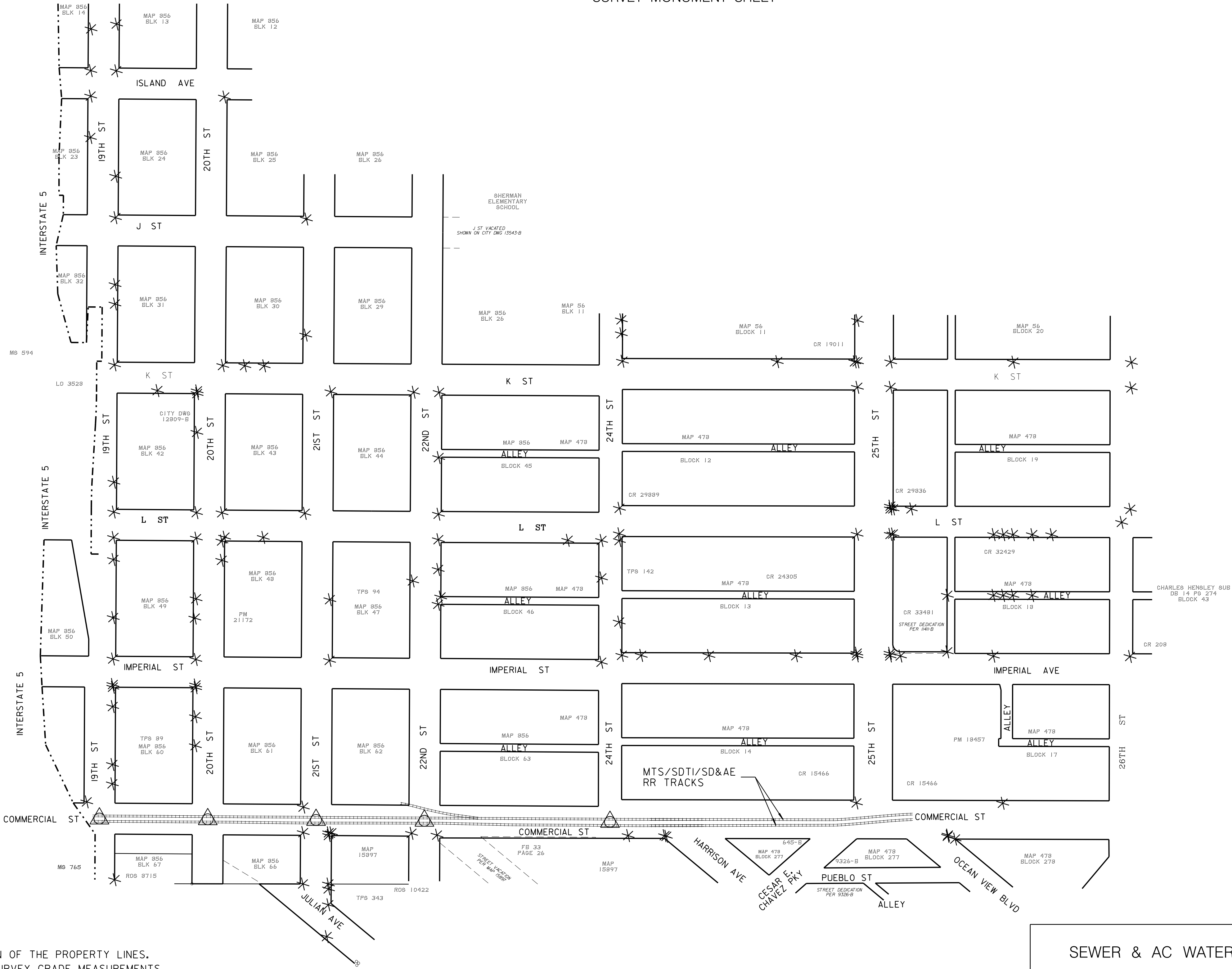
NO SCALE

C-27

WATER AND SEWER GROUP 793 WORK BY CITY FORCES				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 29 OF 57 SHEETS			WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DGE NAME			DATE RCE# C59403	
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED	DATE FILMED	
CONTRACTOR			DATE STARTED	
INSPECTOR			DATE COMPLETED	
ELHAM LOTFI PROJECT MANAGER			194-1719, 198-1719 CCS27 COORDINATE	
BAREAZ PIROMARI PROJECT ENGINEER			1834-6279, 1838-6279 CCS83 COORDINATE	
41208-29-D				

WORK BY CITY FORCES

SURVEY MONUMENT SHEET



LEGEND:

* - LOCATION OF EXISTING SURVEY MONUMENT

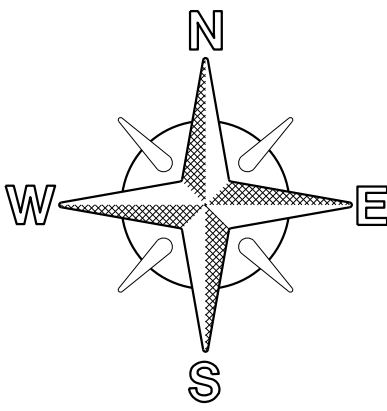
△ - LOCATION OF EXISTING SURVEY M-10

MONUMENTATION / SURVEY NOTES

THIS MAP WAS CREATED FROM A PARCEL LAYER AND DOES NOT DEPICT THE ACTUAL LOCATION OF THE PROPERTY LINES. NO BOUNDARY ANALYSIS WAS PERFORMED. THE SURVEY MONUMENTS HAVE BEEN LOCATED BY SURVEY GRADE MEASUREMENTS, AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

THE CITY OF SAN DIEGO LAND SURVEYORS SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED WITH THE COUNTY SURVEYOR.

IF ANY HORIZONTAL OR VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ANY HORIZONTAL CONTROL AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION IF THE CITY OF SAN DIEGO SURVEY SECTION IS NOT NOTIFIED PRIOR TO CONSTRUCTION. THE FILING OF A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED WITH COUNTY SURVEYOR. A COPY OF THE FILED DOCUMENT SHALL BE FURNISHED TO THE CITY OF SAN DIEGO SURVEY SECTION.



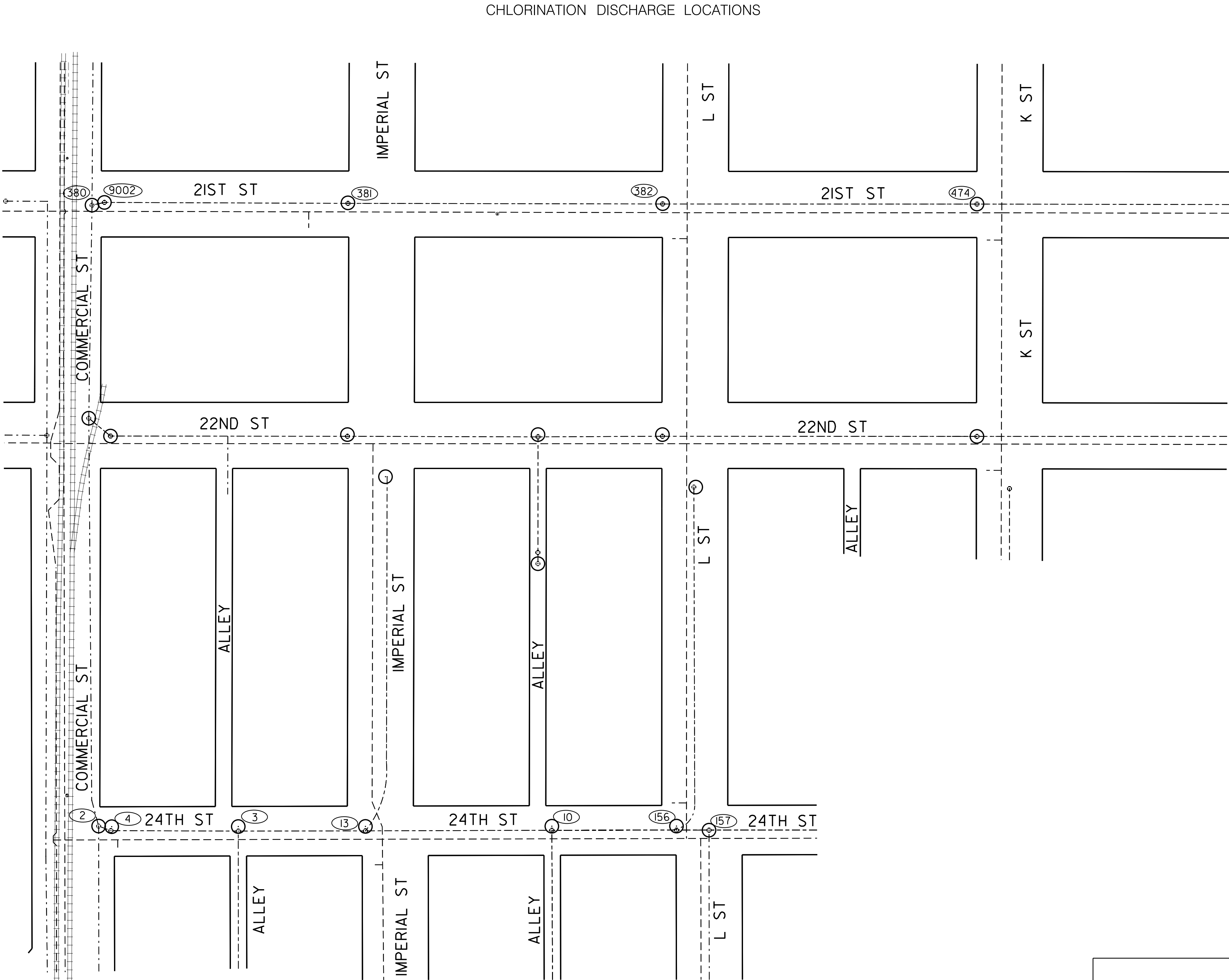
NO SCALE

C-28

SEWER & AC WATER GROUP 793
SURVEY MONUMENT SHEET

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 30 OF 57 SHEETS		WATER WBS	B-15070
		SEWER WBS	B-00394
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DATE NAME	DATE C59403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY BP/DC	APPROVED	DATE 194-1719, 198-1719 CCS27 COORDINATE
			1834-6279, 1838-6279 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	
		41208-30-D	

DISCHARGE TABLE			
STREET NAME	MH ID NO.	FSN	MAX FLOW RATE (GPM)
21ST STREET	G23S380	97170	430
21ST STREET	G23S9002	8000937	400
21ST STREET	G23S381	97171	400
21ST STREET	G23S382	97172	400
21ST STREET	G22S474	96751	400
24TH STREET	H23S2	I02079	830
24TH STREET	H23S4	I02081	1150
24TH STREET	H23S3	I02080	810
24TH STREET	H23S13	I02089	260
24TH STREET	H23S10	I02086	260
24TH STREET	H23S156	I02223	260
24TH STREET	H23S157	I02224	260



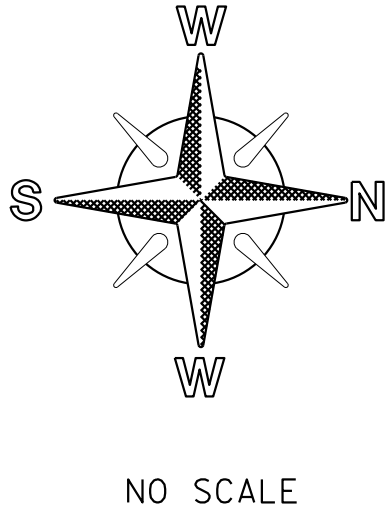
MTS/SDTI/SD&AE RR TRACKS

CONTRACTOR'S NOTES:

1. CONTRACTOR SHALL OBTAIN THE BATCH AUTHORIZATION PERMIT AT THE TIME OF DISCHARGE.

2. THE MAXIMUM FLOW RATES PROVIDED ARE FOR DRY WEATHER FLOW CONDITIONS AND ONLY ONE MANHOLE CAN BE DISCHARGED TO AT ONE TIME.

- LEGEND
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN
 - EX MANHOLE
 - PROPOSED DISCHARGE LOCATION W/MANHOLE ID NO.
 - FSN FACILITY SEQUENCE NUMBER



NO SCALE

C-29

SEWER & AC WATER GROUP 793
CHLORINATION DISCHARGE LOCATIONS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 31 OF 57 SHEETS

WATER WBS B-15070
SEWER WBS B-00394

APPROVED: _____ DATE _____
FOR CITY ENGINEER SHEILA BOSE
PRINT: DGE NAME _____ RCE# C59403

SUBMITTED BY: ELHAM LOTFI
PROJECT MANAGER
CHECKED BY: BAREAZ PIROMARI
PROJECT ENGINEER

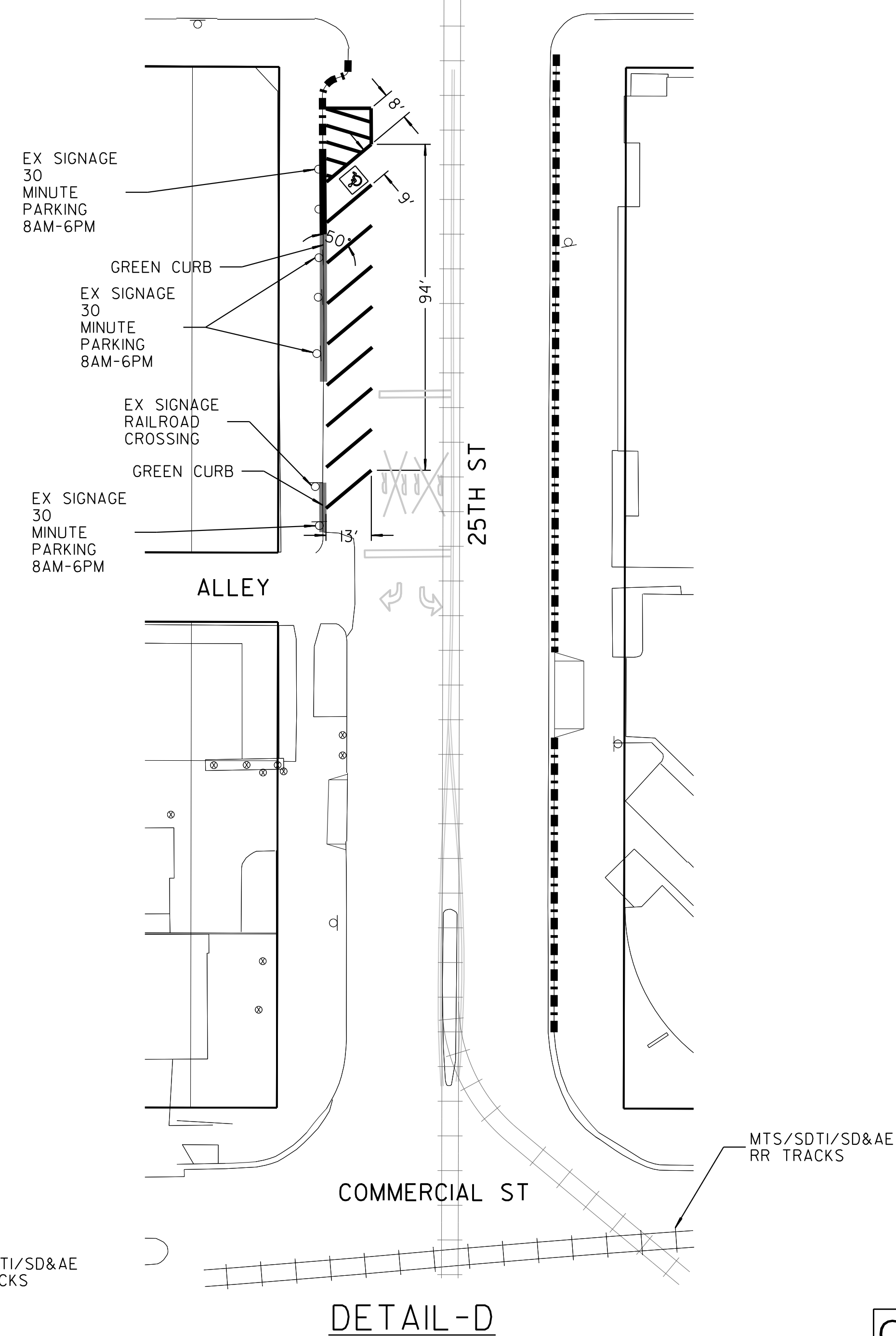
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BP/DC			

194-1719, 198-1719
CCS27 COORDINATE
1834-6279, 1838-6279
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41208-31-D

IMPERIAL AVE



C-30

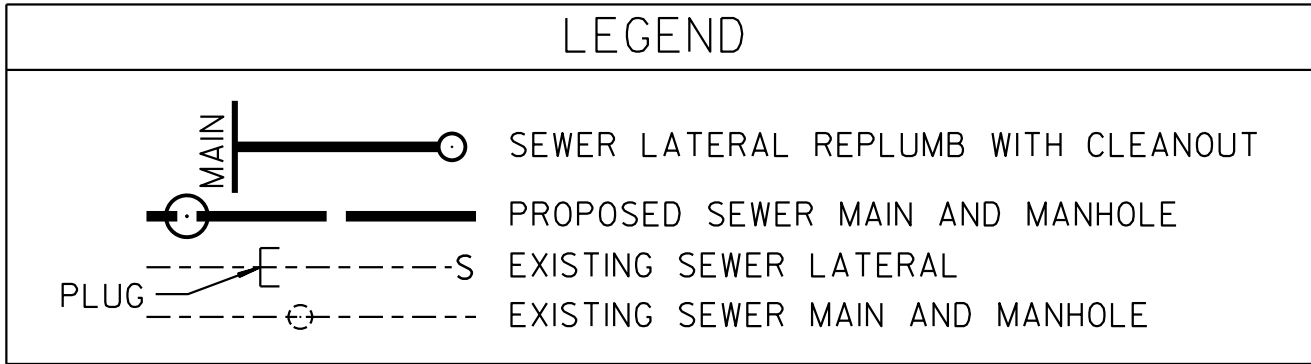
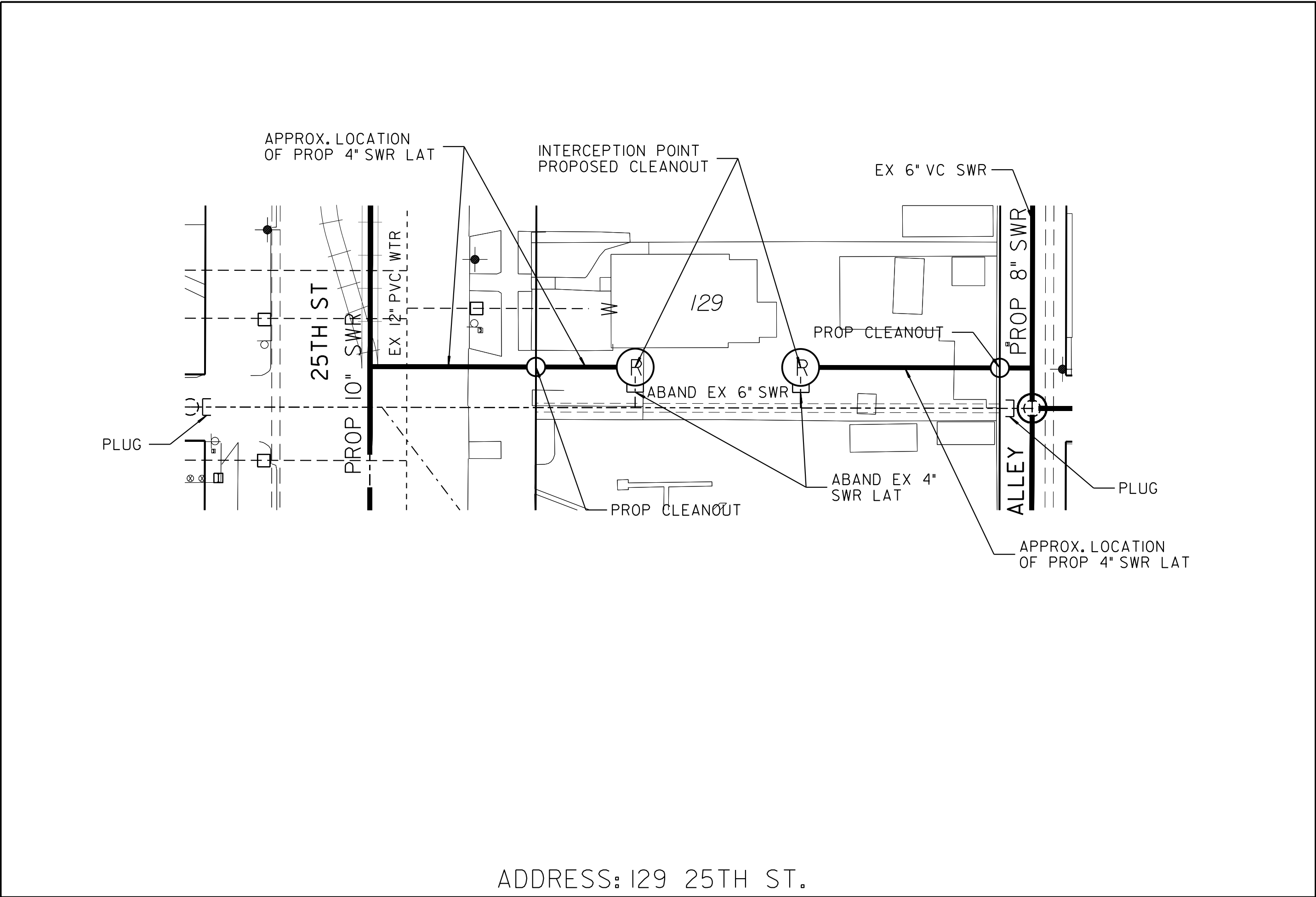
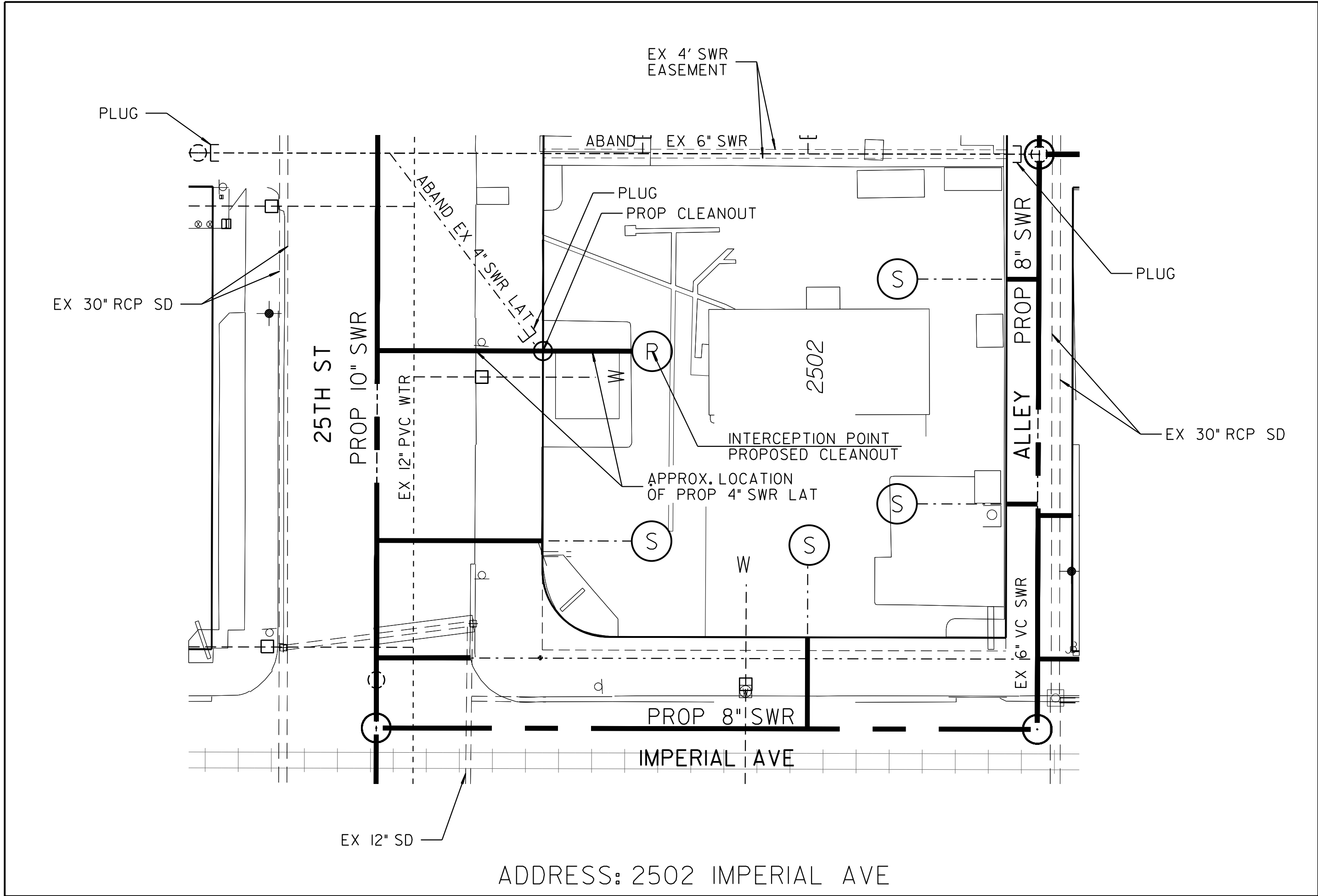
STRIPINGS

1854-6285, 1858-6285	CCS83 COORDINATE
41208-32-D	

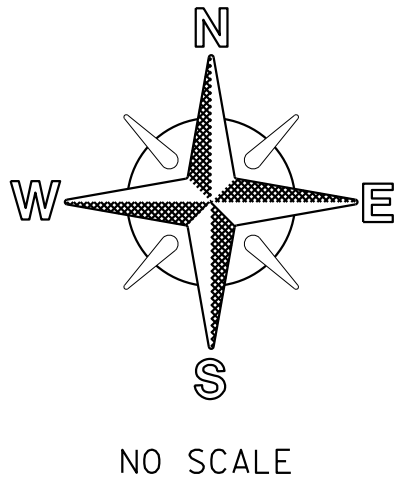
CONTRACTOR _____		DATE STARTED _____	41208-32-D
INSPECTOR _____		DATE COMPLETED _____	

NO SCALE

SEWER REPLUMB

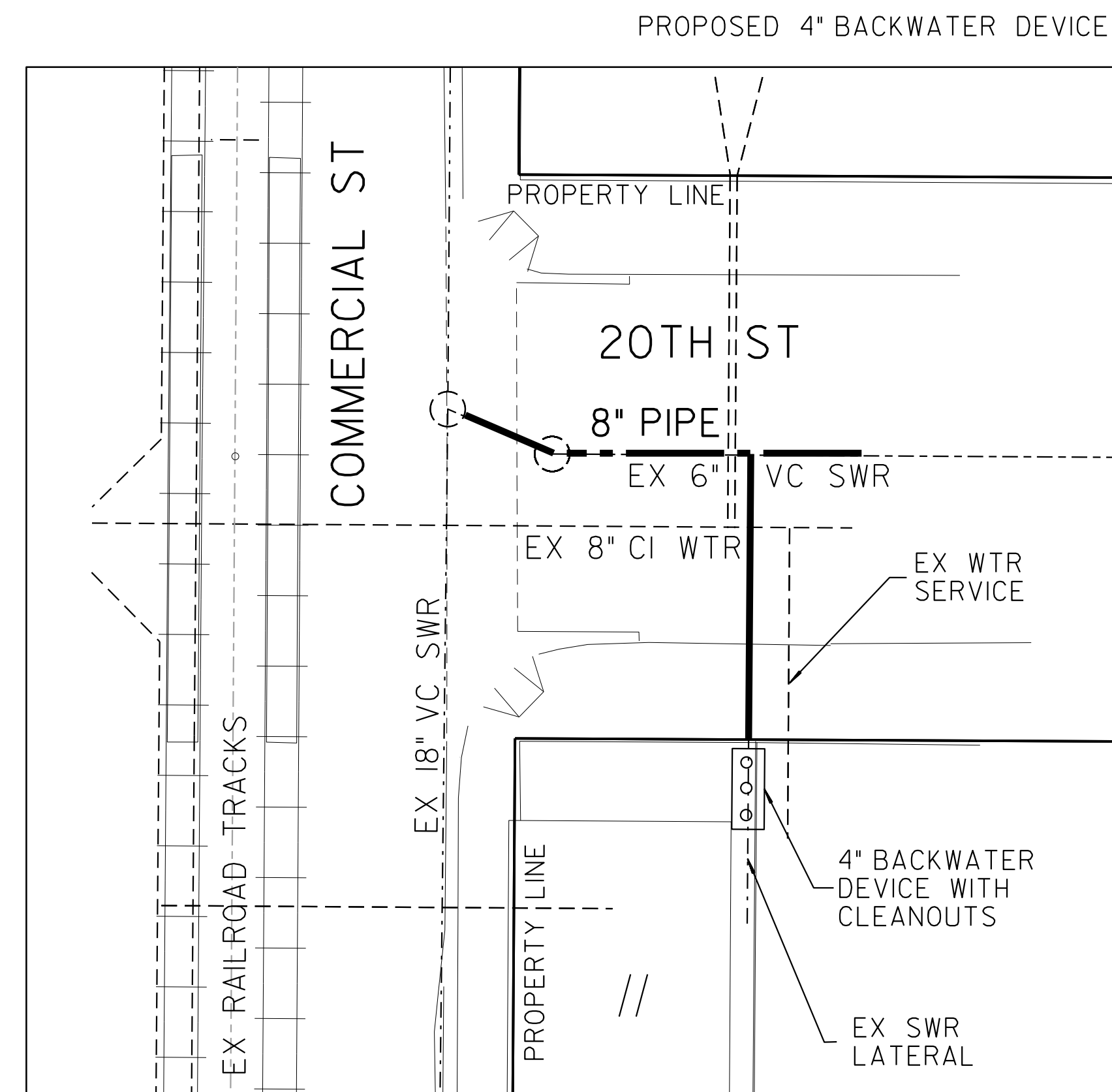


- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
 - LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION & NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCIES.
 - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.

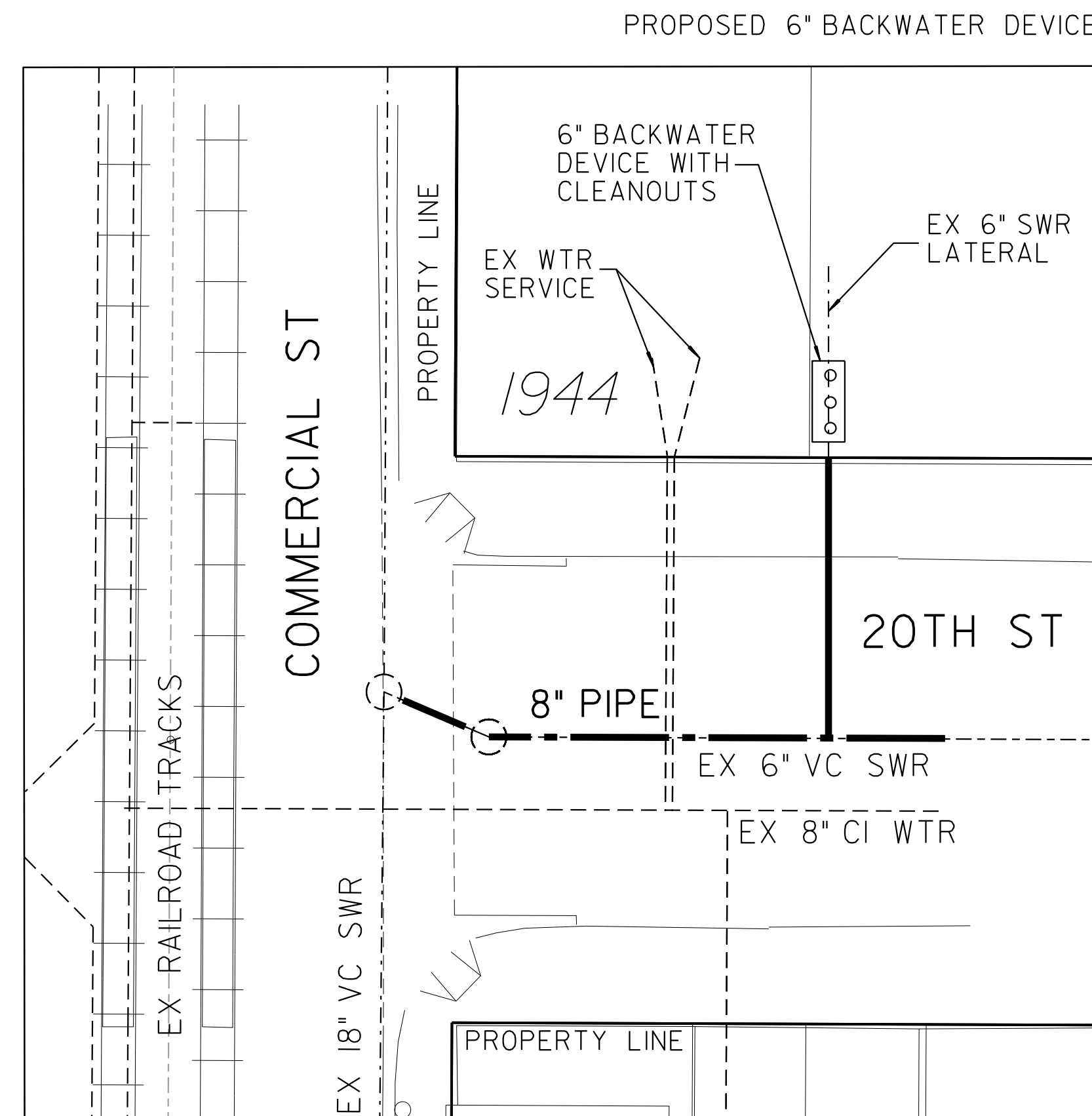


		SEWER & AC WATER GROUP 793																													
		SEWER REPLUMB																													
		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 33 OF 57 SHEETS			WATER WBS B-15070 SEWER WBS B-00394																										
APPROVED: _____ FOR CITY ENGINEER _____ DATE _____ SHEILA BOSE C59403 PRINT DCE NAME _____ RCE# _____ <table><tr><td>DESCRIPTION</td><td>BY</td><td>APPROVED</td><td>DATE</td><td>FILMED</td></tr><tr><td>ORIGINAL</td><td>BP/DC</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>		DESCRIPTION	BY	APPROVED	DATE	FILMED	ORIGINAL	BP/DC																			SUBMITTED BY: _____ ELHAM LOTFI PROJECT MANAGER _____ CHECKED BY: _____ BAREAZ PIROMARI PROJECT ENGINEER _____ 194-1725, 198-1725 CCS27 COORDINATE 1834-6285, 1838-6285 CCS83 COORDINATE				
		DESCRIPTION	BY	APPROVED	DATE	FILMED																									
		ORIGINAL	BP/DC																												
		CONTRACTOR _____ DATE STARTED _____																													
INSPECTOR _____ DATE COMPLETED _____																															
41208-33-D																															

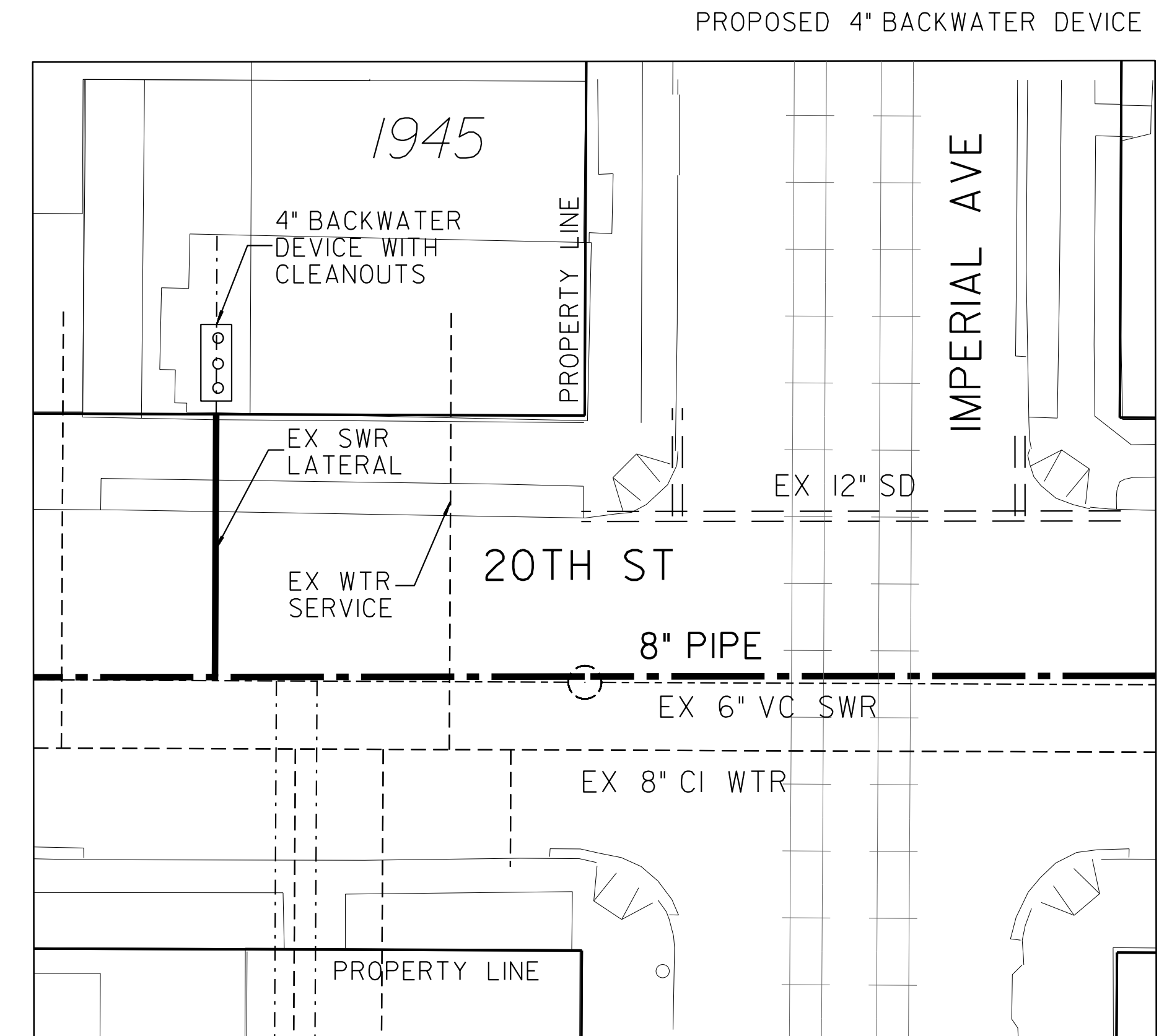
BACKWATER DEVICE EXHIBIT



11 20TH STREET
SAN DIEGO, CA 92102

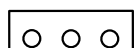


1944 COMMERCIAL STREET
SAN DIEGO, CA 92102



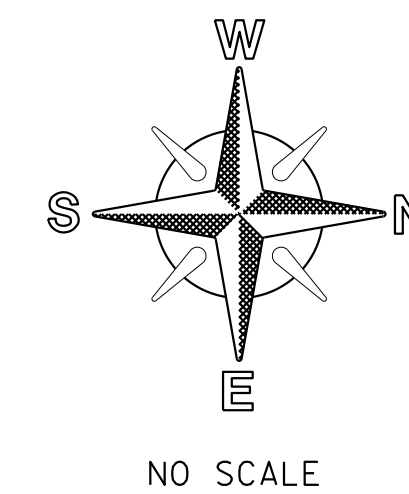
1945 IMPERIAL AVE
SAN DIEGO, CA 92102

LEGEND

PROP BACKWATER DEVICE WITH CLEANOUTS	
PROP SWR MAIN	
PROP SWR LATERAL	
PROPERTY LINE	

NOTE:

1. SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION & NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCIES.
3. ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.



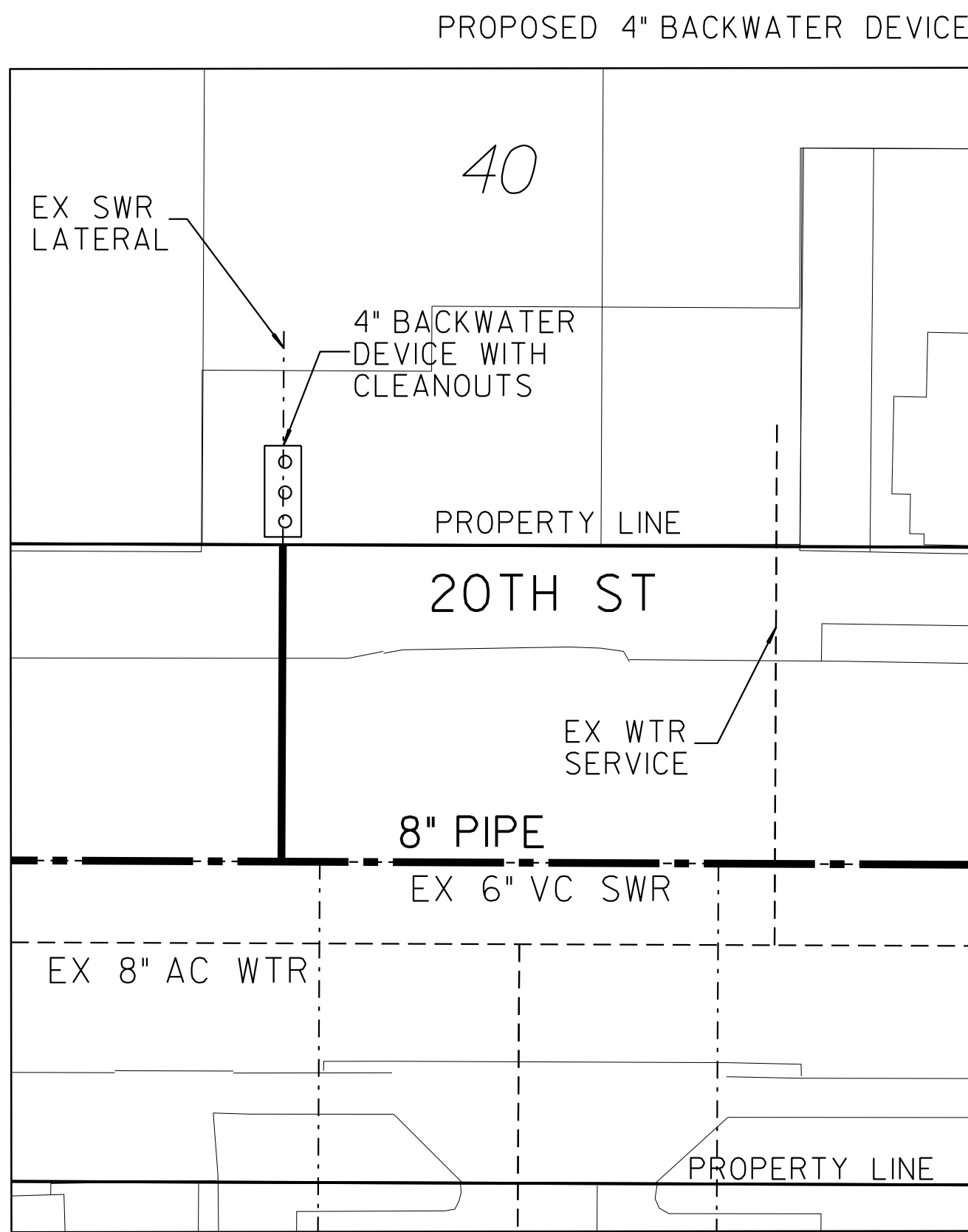
NO SCALE

SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT									
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 34 OF 56 SHEETS							WATER <u>B-15070</u> WBS SEWER <u>B-00394</u> WBS		
APPROVED: FOR CITY ENGINEER SHEILA BOSE PRINT DOE NAME DATE C59403 RCE#							SUBMITTED BY: <u>ELHAM LOTFI</u> PROJECT MANAGER		
							CHECKED BY: <u>BAREAZ PIROMARI</u> PROJECT ENGINEER		
DESCRIPTION		BY	APPROVED	DATE	FILMED	<u>194-1725, 198-1725</u> CCS27 COORDINATE			
ORIGINAL		BP/DC				<u>1834-6285, 1838-6285</u> CCS83 COORDINATE			
CONTRACTOR					DATE STARTED				
INSPECTOR					DATE COMPLETED				
<u>41208-34-D</u>									

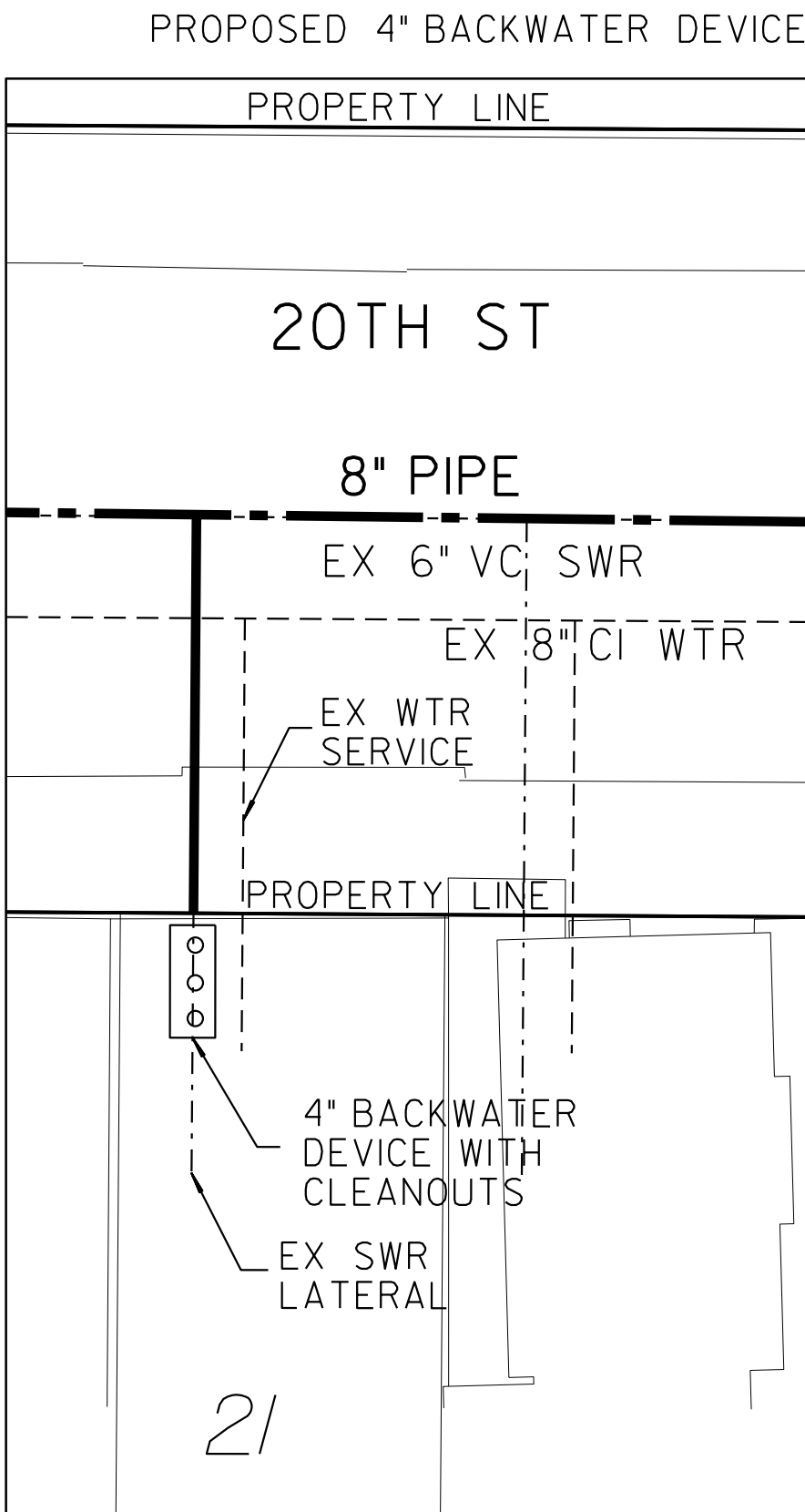
100% DESIGN

BACKWATER EXHIBIT

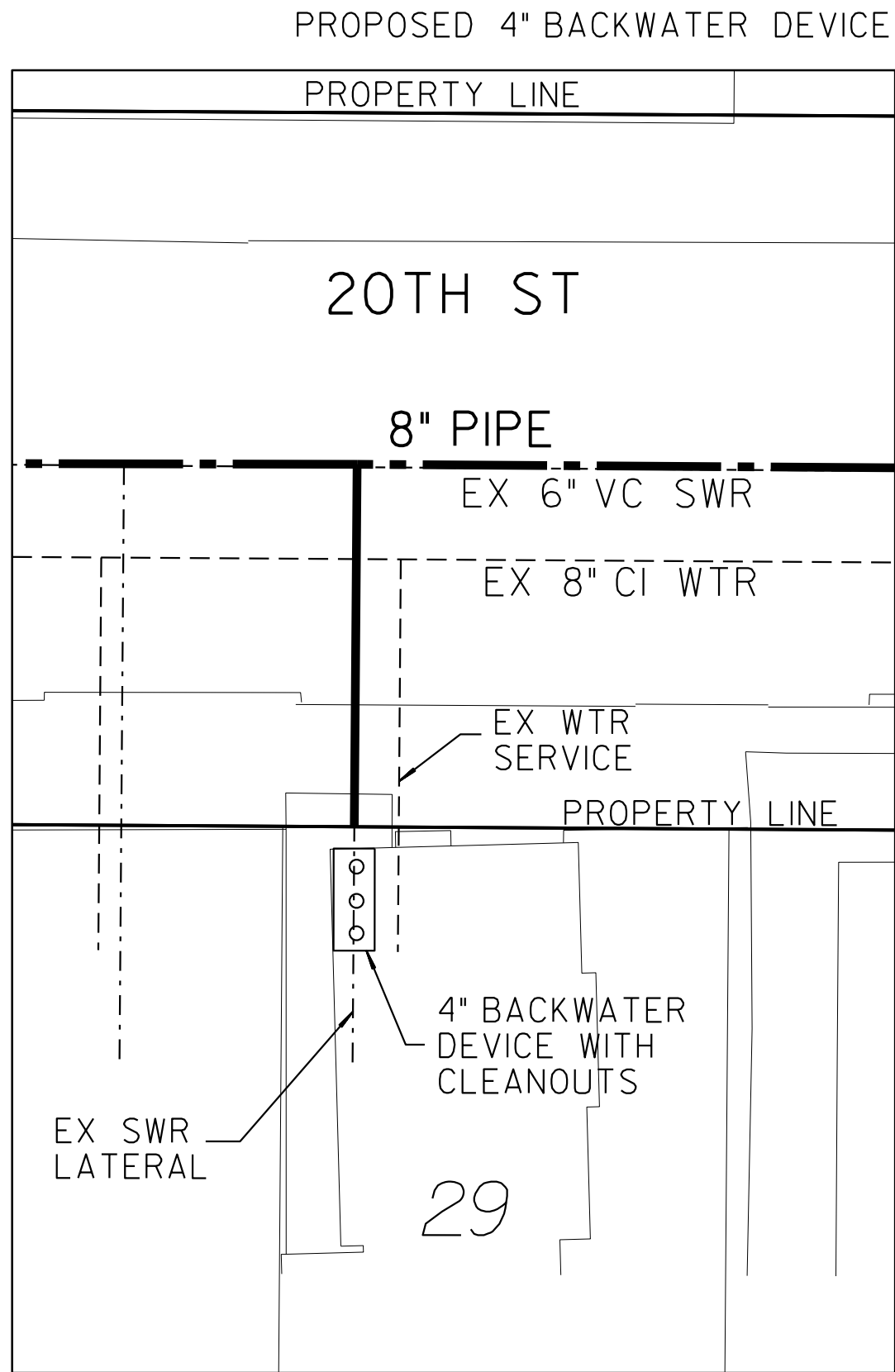
BACKWATER DEVICE EXHIBIT



40 20TH STREET
SAN DIEGO, CA 92102



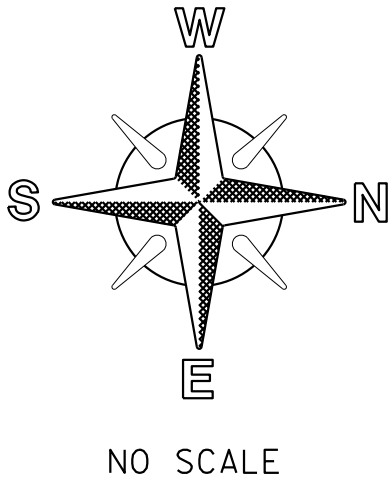
21 20TH STREET
SAN DIEGO, CA 92102



29 20TH STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
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 - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.



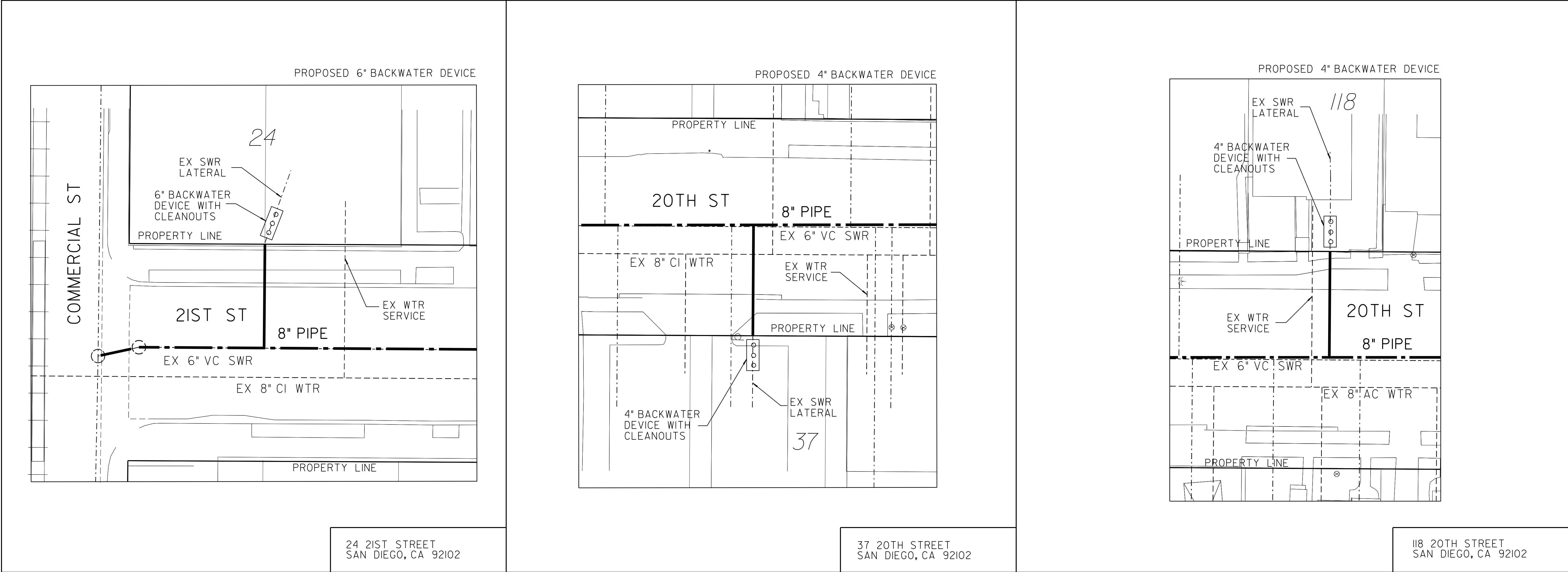
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 35 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-35-D	

100% DESIGN

BACKWATER EXHIBIT

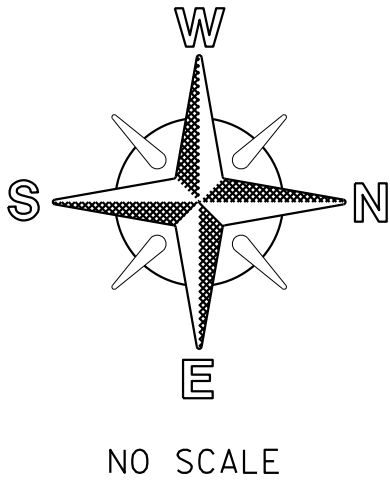
C-33

BACKWATER DEVICE EXHIBIT



LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-I05 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
 - LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION & NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCIES.
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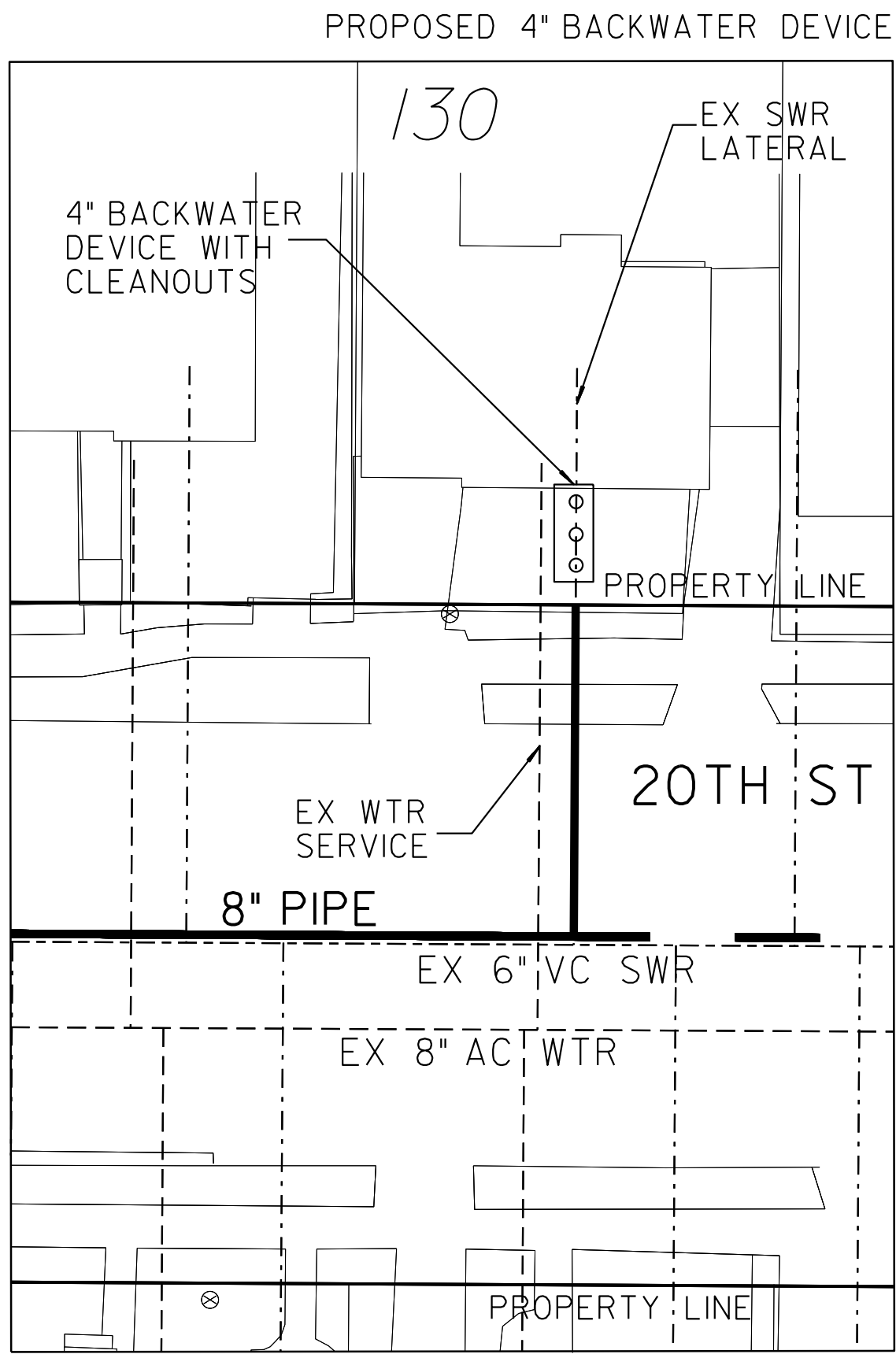


C-34		SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 36 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	194-1725, 198-1725 CCS27 COORDINATE 1834-6285, 1838-6285 CCS83 COORDINATE 41208-36-D

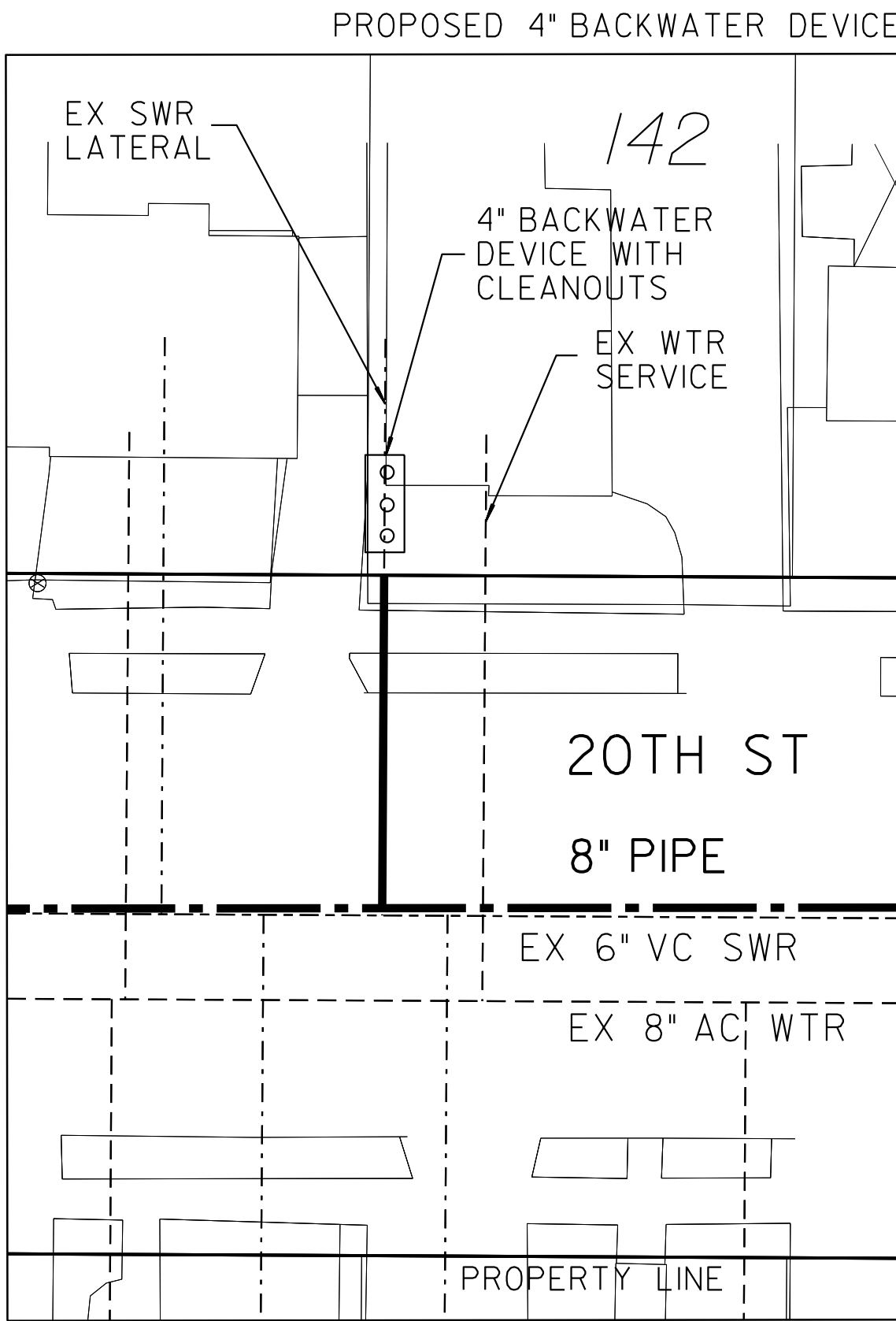
100% DESIGN

BACKWATER EXHIBIT

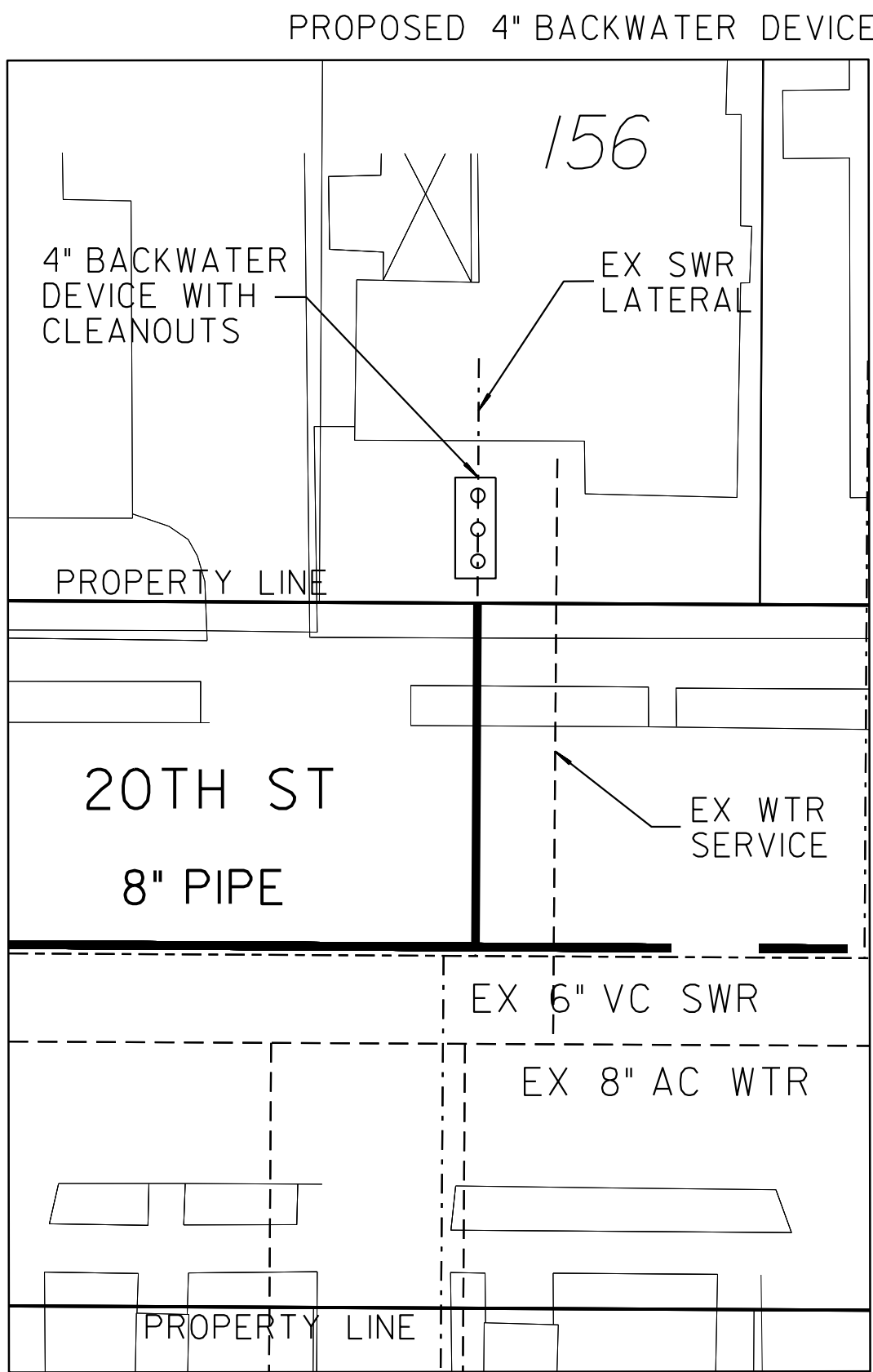
BACKWATER DEVICE EXHIBIT



130 20TH STREET
SAN DIEGO, CA 92102



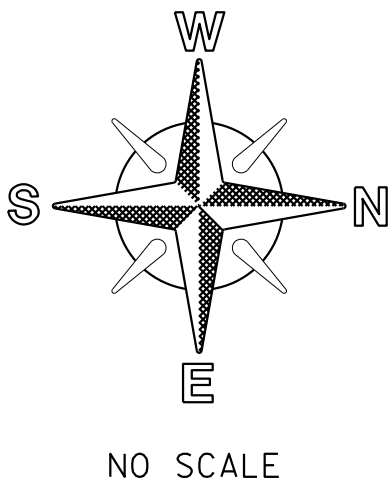
142 20TH STREET
SAN DIEGO, CA 92102



156 20TH STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	
PROP SWR MAIN	
PROP SWR LATERAL	
PROPERTY LINE	

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
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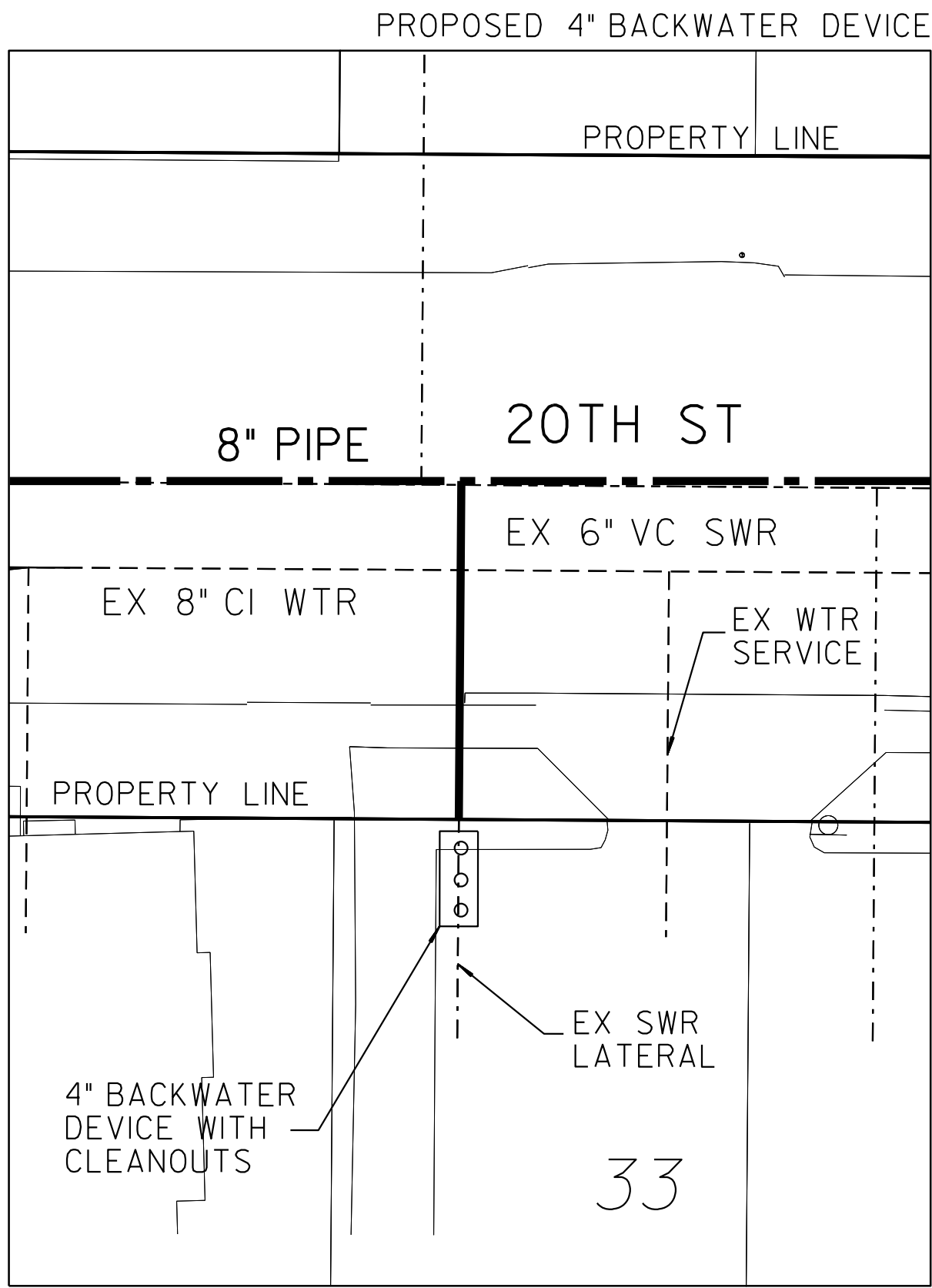
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 37 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	194-1725, 198-1725 CCS27 COORDINATE 1834-6285, 1838-6285 CCS83 COORDINATE 41208-37-D

100% DESIGN

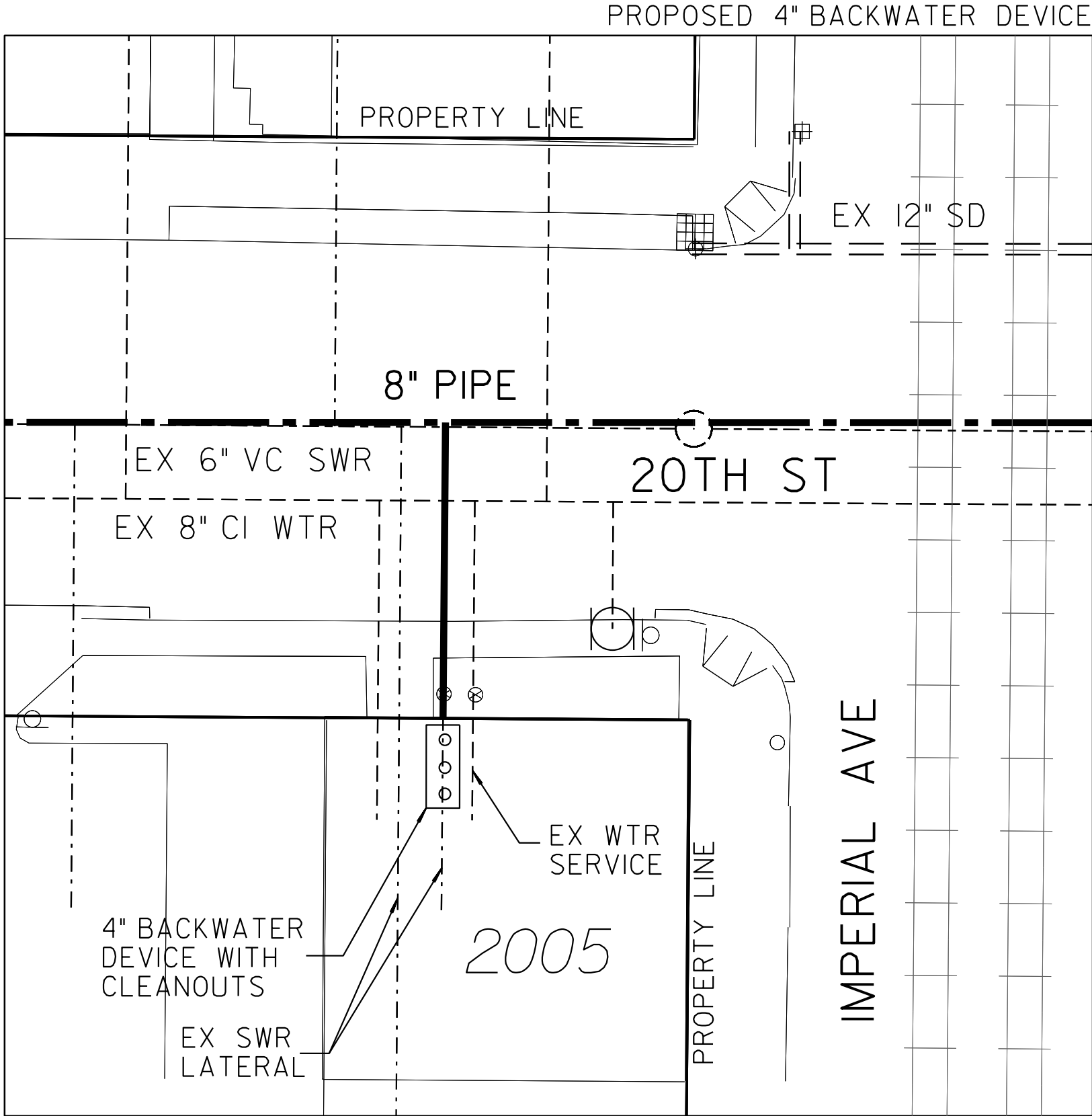
C-35

BACKWATER EXHIBIT

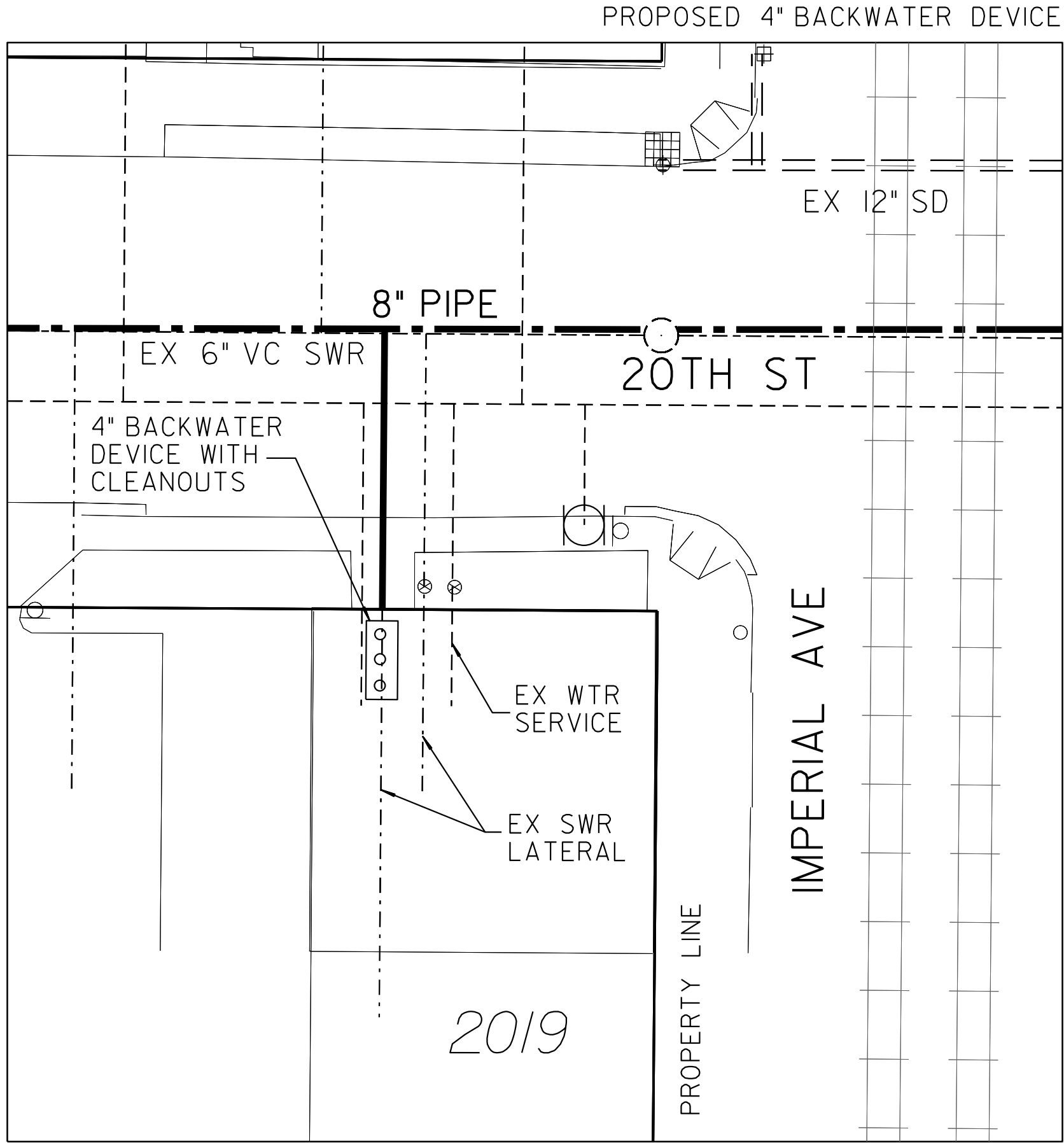
BACKWATER DEVICE EXHIBIT



33 20TH STREET
SAN DIEGO, CA 92102



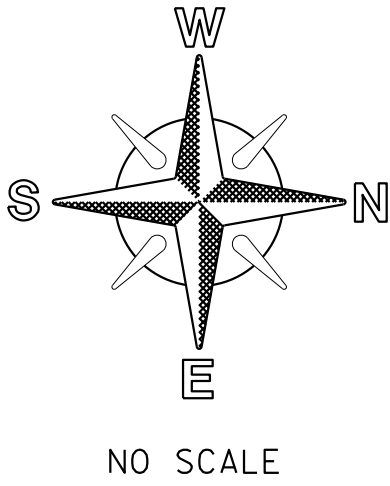
2005 IMPERIAL AVE
SAN DIEGO, CA 92102



2019 IMPERIAL AVE
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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 - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.



NO SCALE

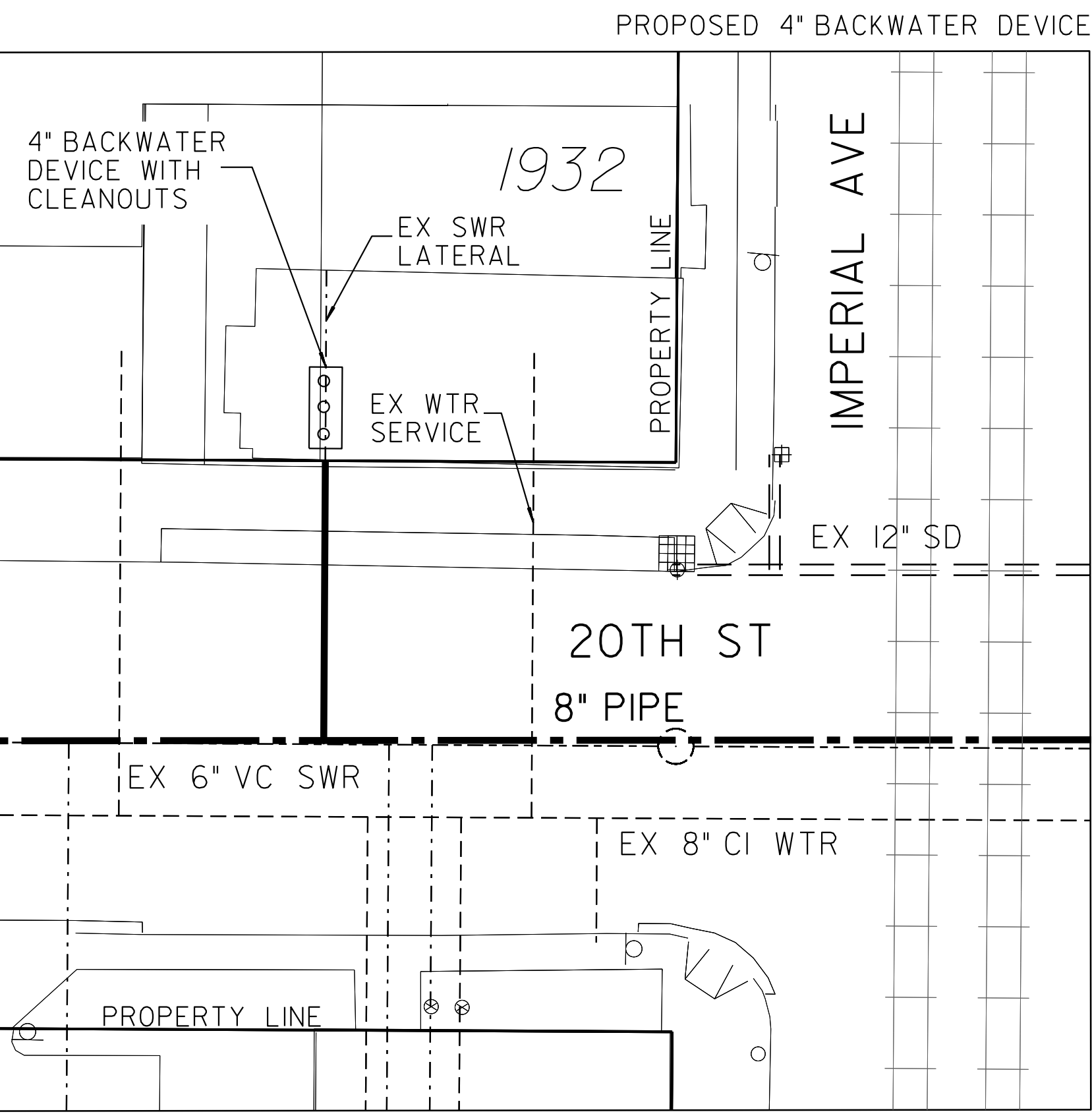
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 38 OF 56 SHEETS		WATER WBS B-15070	SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY ELHAM LOTFI PROJECT MANAGER
DESCRIPTION		BY	CHECKED BY BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL		BP/DC	194-1725, 198-1725 CCS27 COORDINATE
			1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR		DATE STARTED	41208-38-D
INSPECTOR		DATE COMPLETED	

100% DESIGN

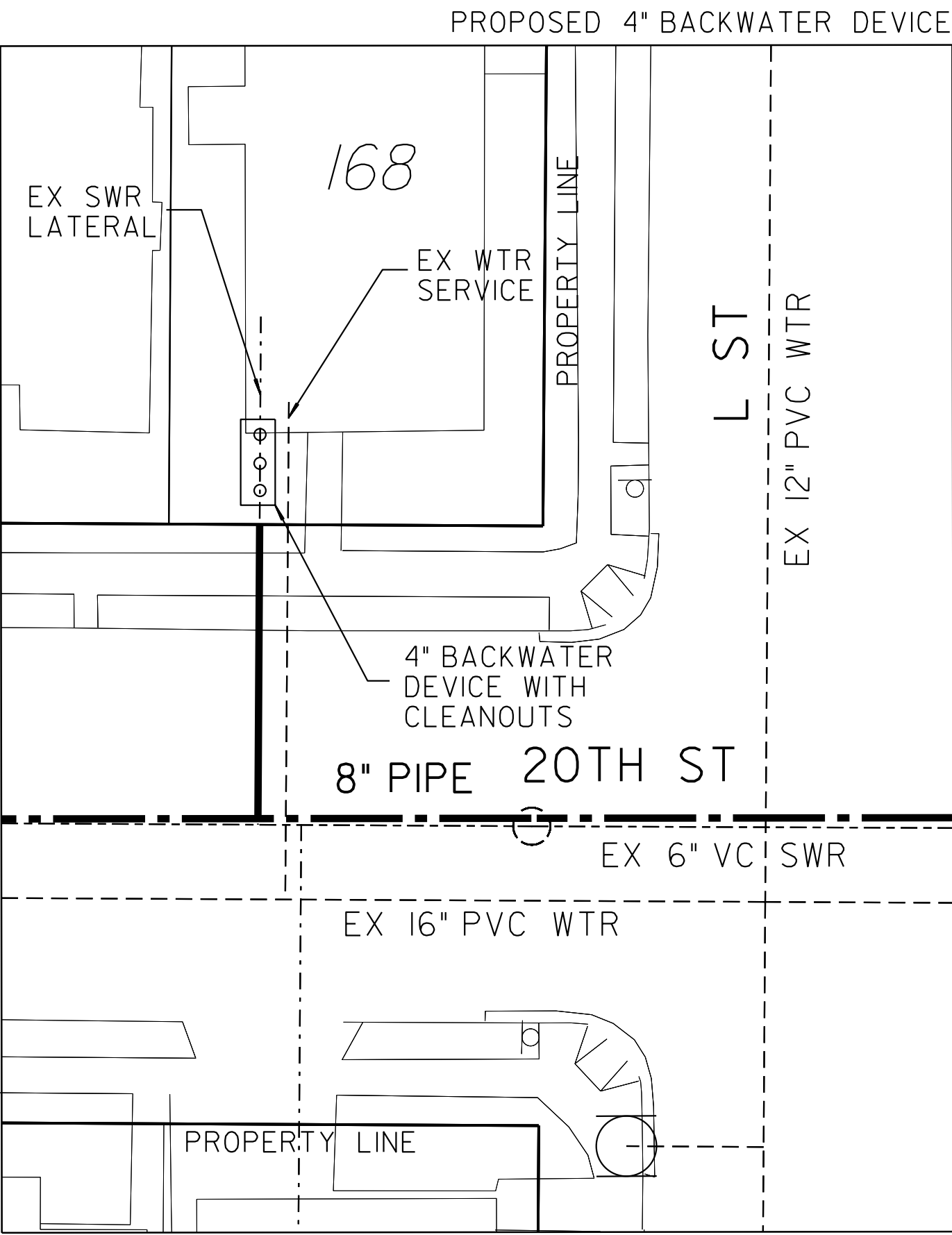
C-36

BACKWATER EXHIBIT

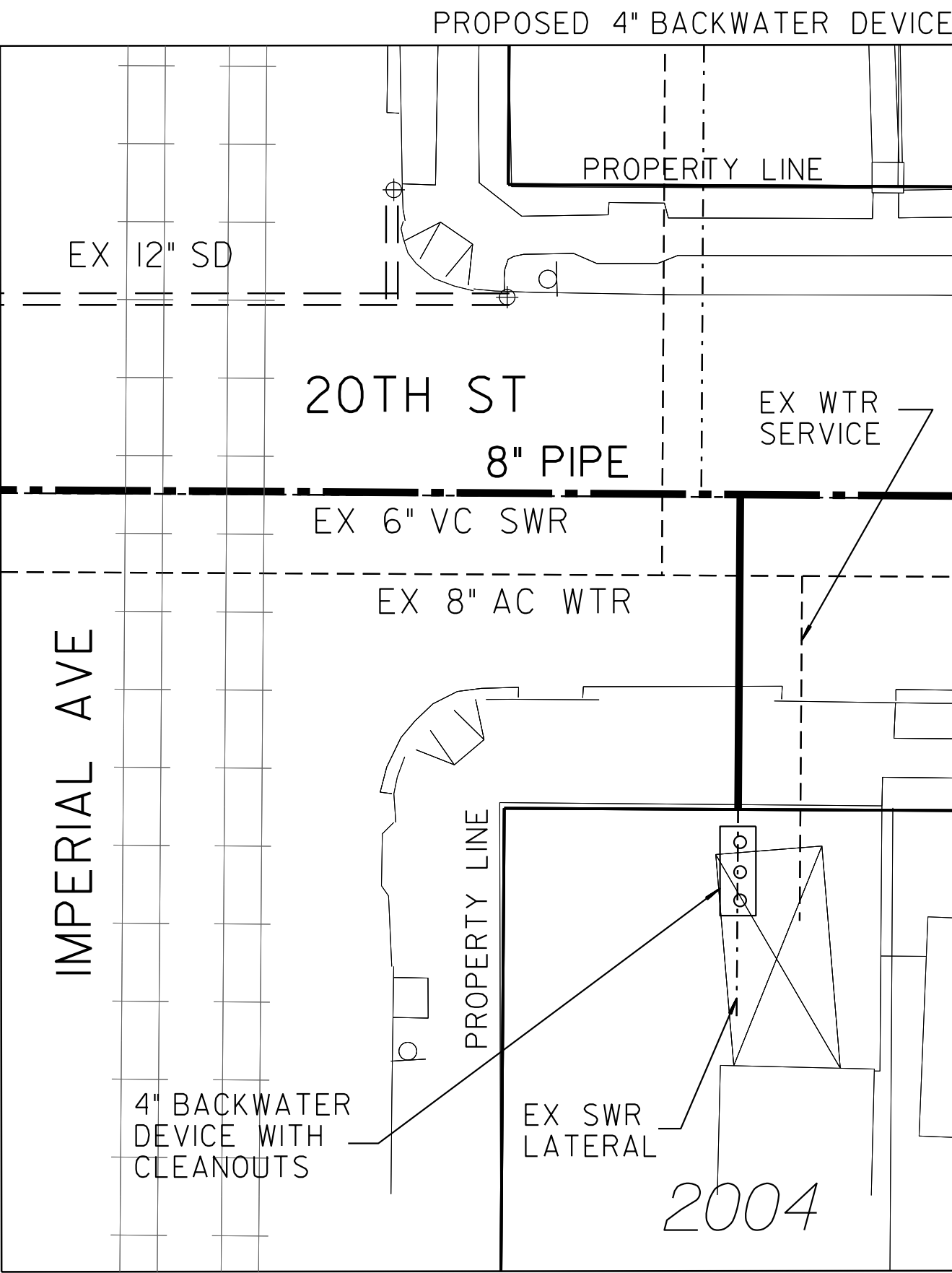
BACKWATER DEVICE EXHIBIT



1932 IMPERIAL AVE
SAN DIEGO, CA 92102



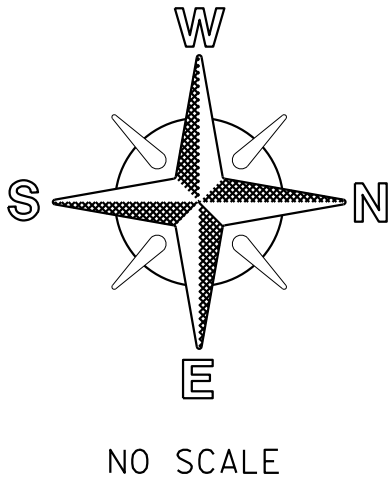
168 20TH STREET
SAN DIEGO, CA 92102



2004 IMPERIAL AVE
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
 - LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION & NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCIES.
 - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.



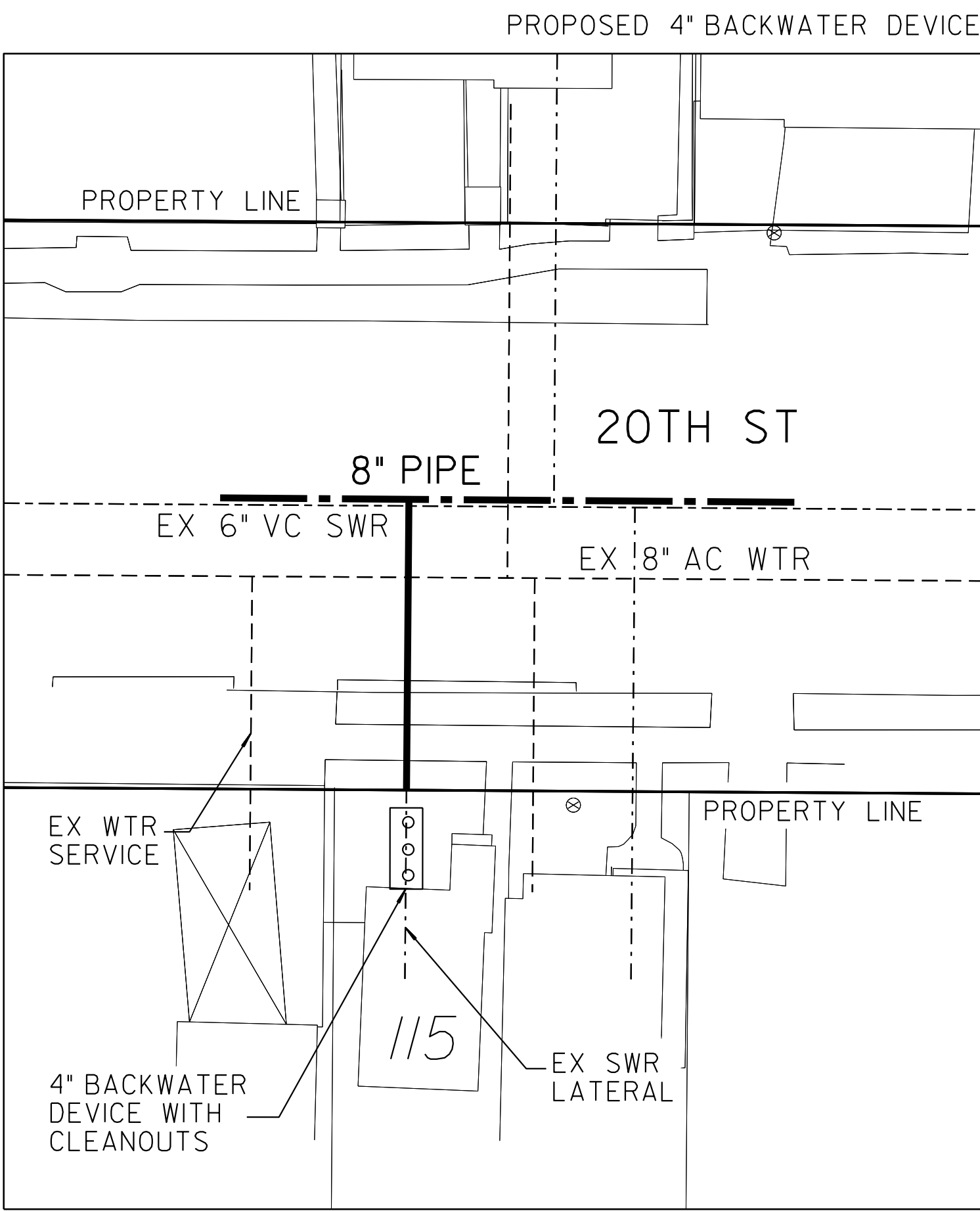
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 39 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	194-1725, 198-1725 CCS27 COORDINATE 1834-6285, 1838-6285 CCS83 COORDINATE 41208-39-D

100% DESIGN

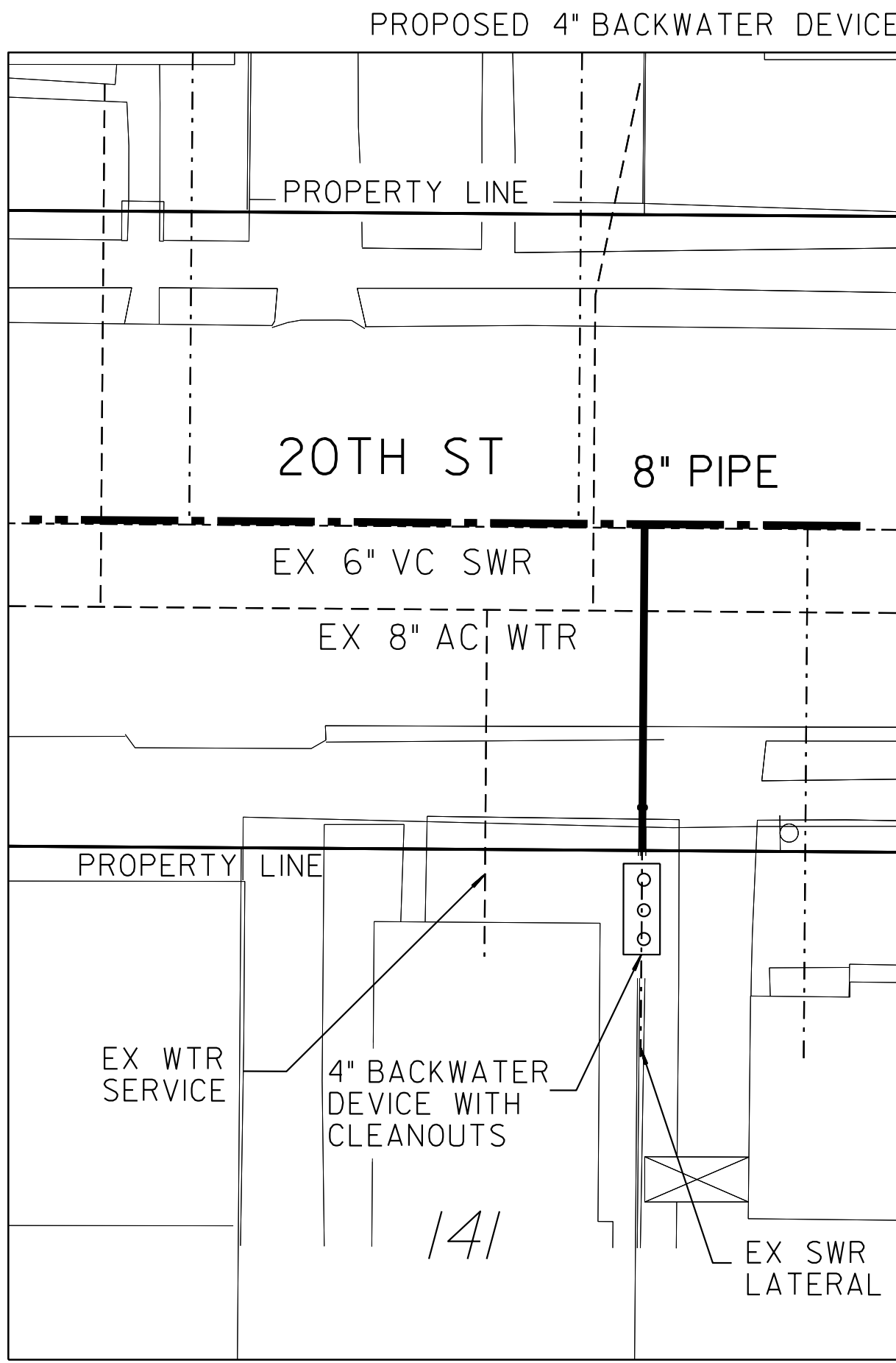
BACKWATER EXHIBIT

C-37

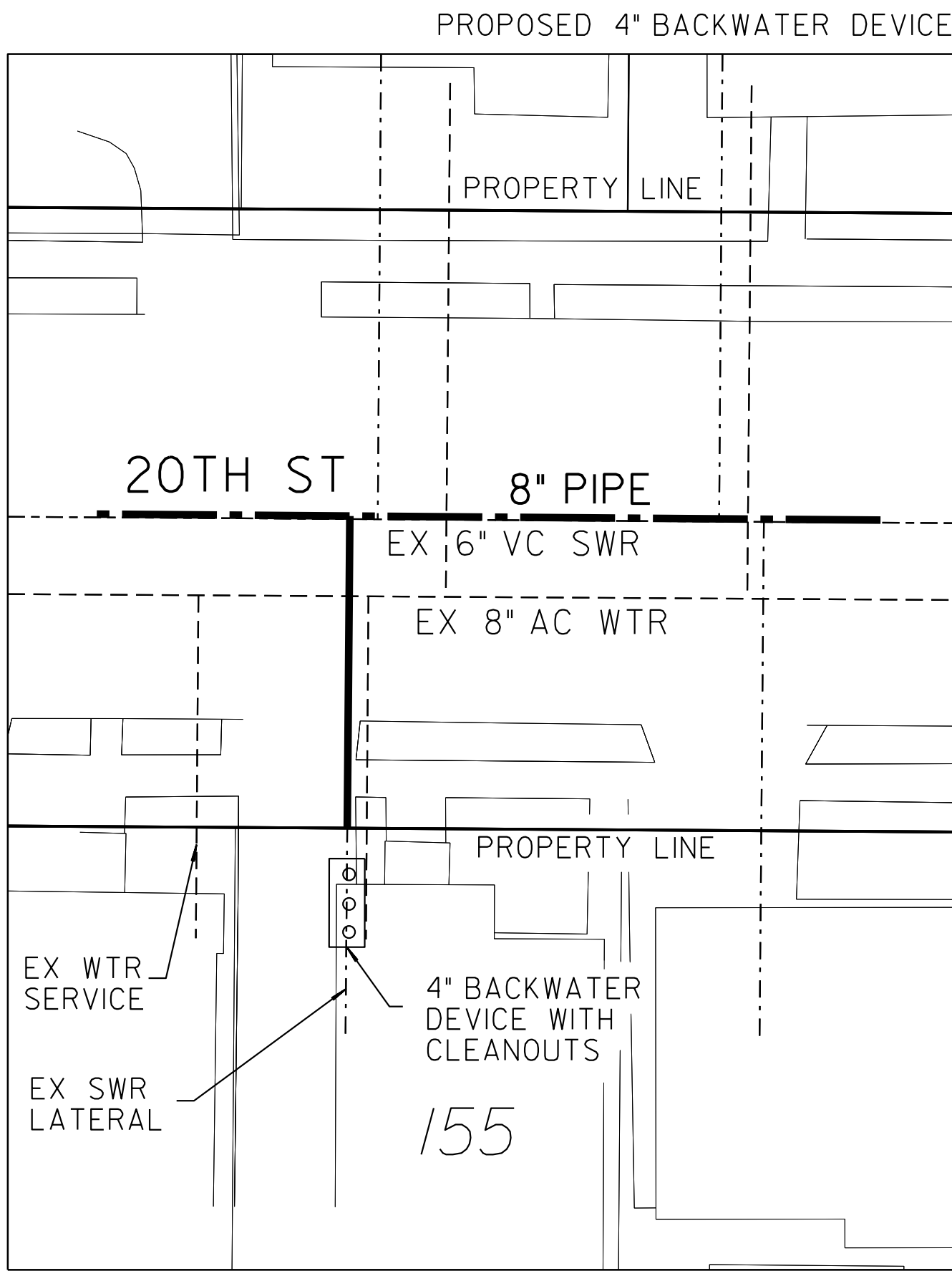
BACKWATER DEVICE EXHIBIT



115 20TH STREET
SAN DIEGO, CA 92102



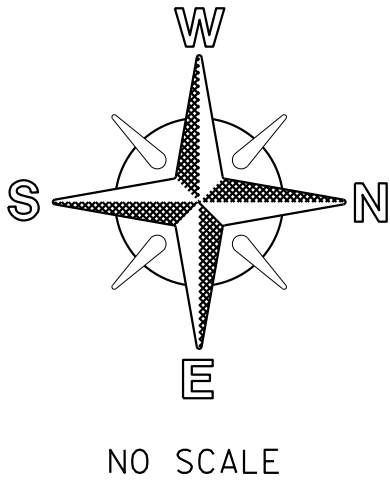
141 20TH STREET
SAN DIEGO, CA 92102



155 20TH STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
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 - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.

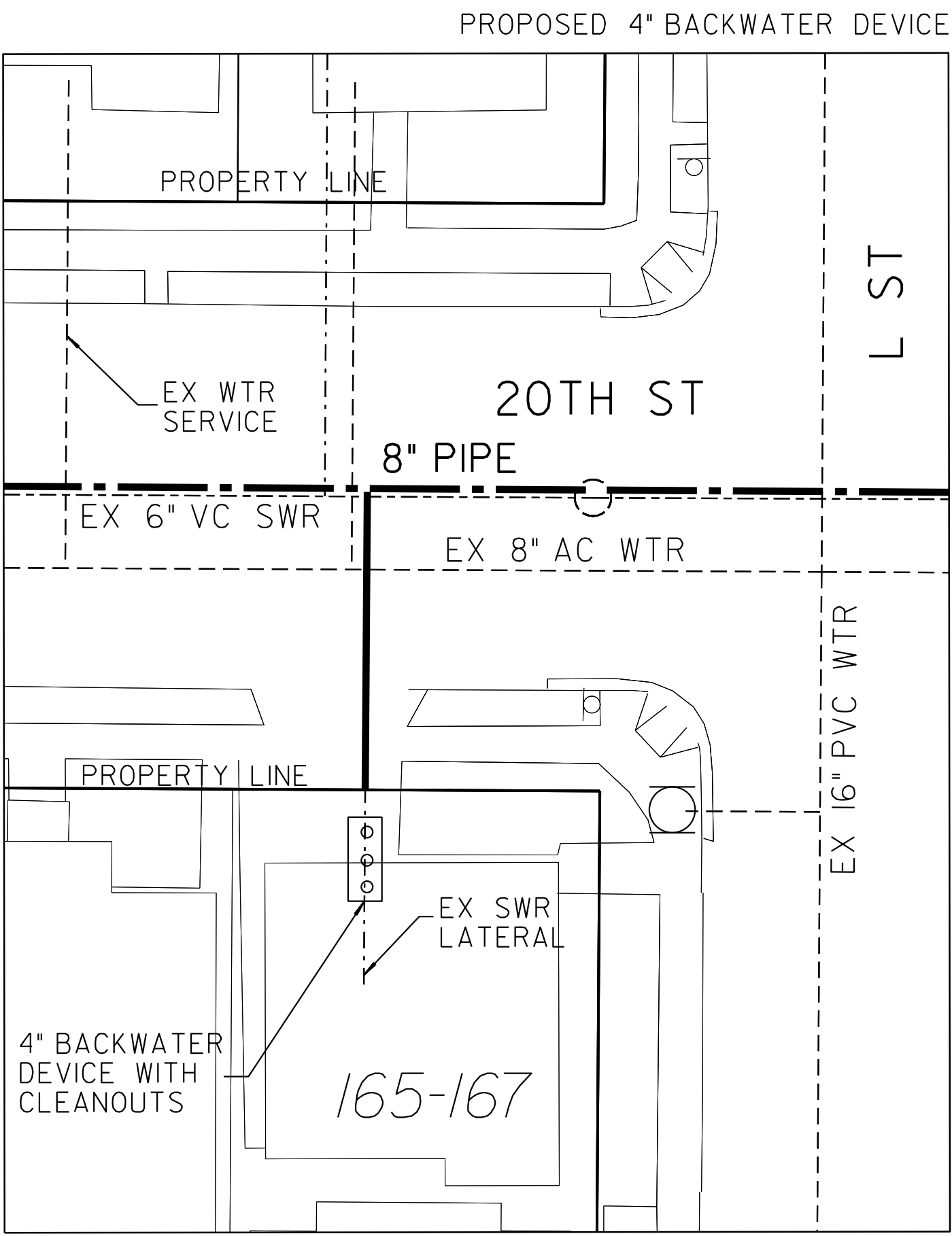


C-38		SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 40 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
		CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	
		41208-40-D	

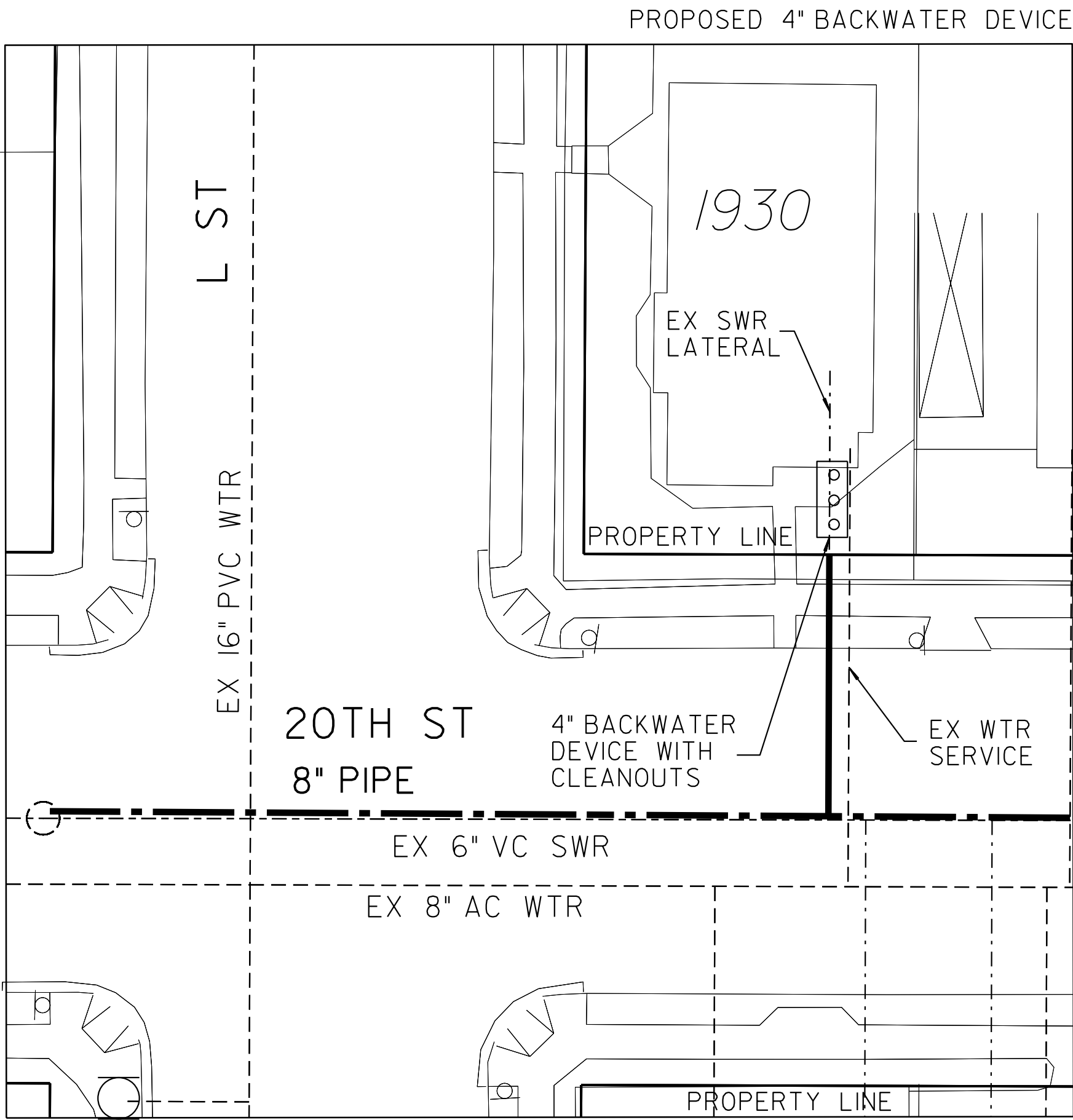
100% DESIGN

BACKWATER EXHIBIT

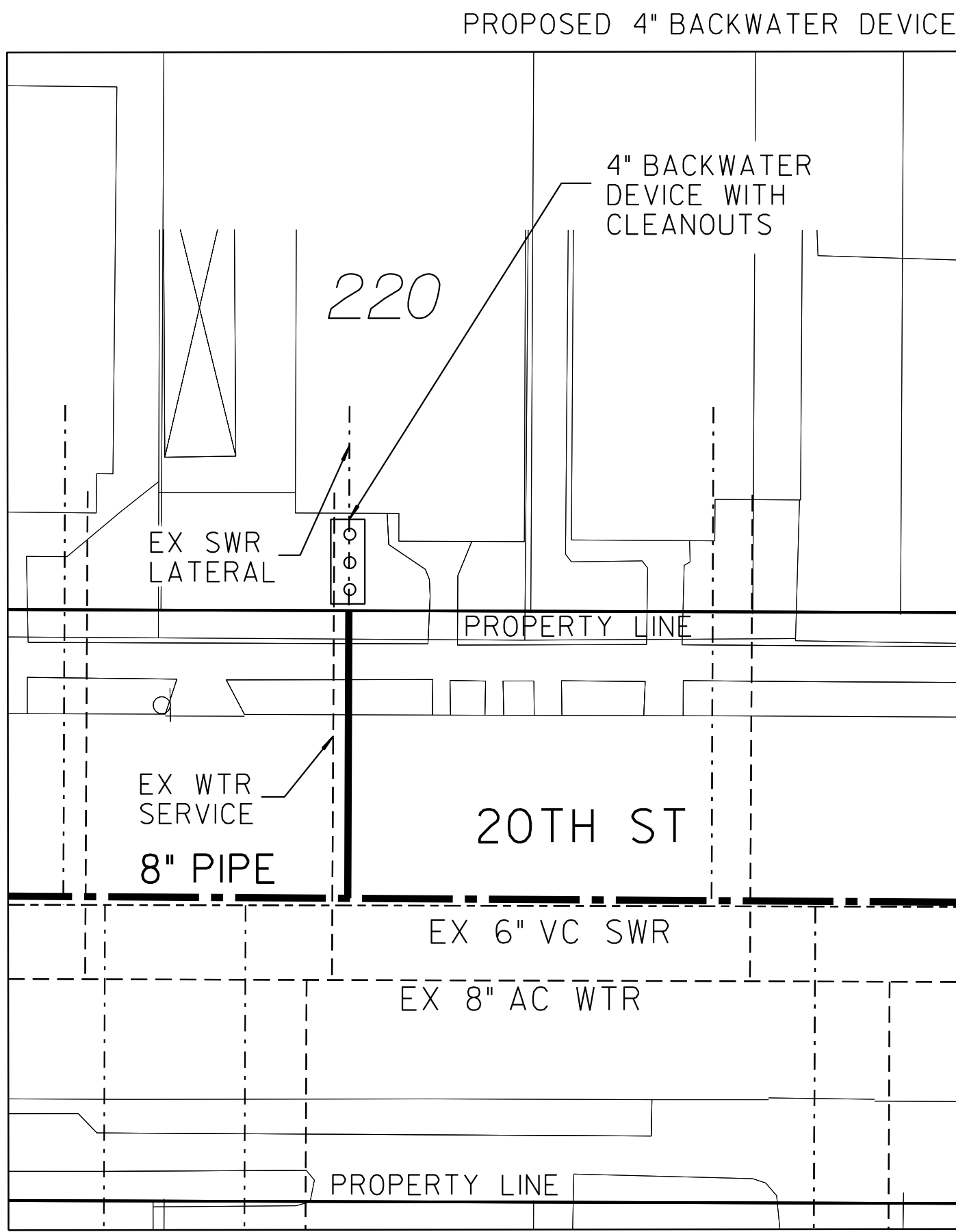
BACKWATER DEVICE EXHIBIT



165 20TH STREET
SAN DIEGO, CA 92102



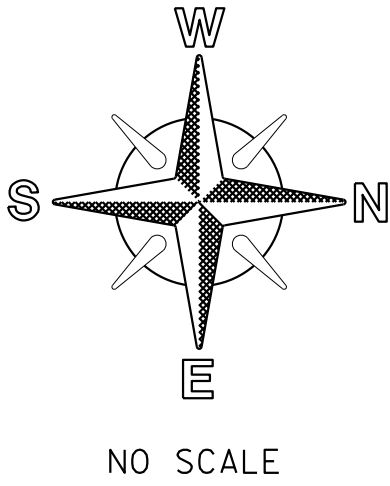
1930 L STREET
SAN DIEGO, CA 92102



220 20TH STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
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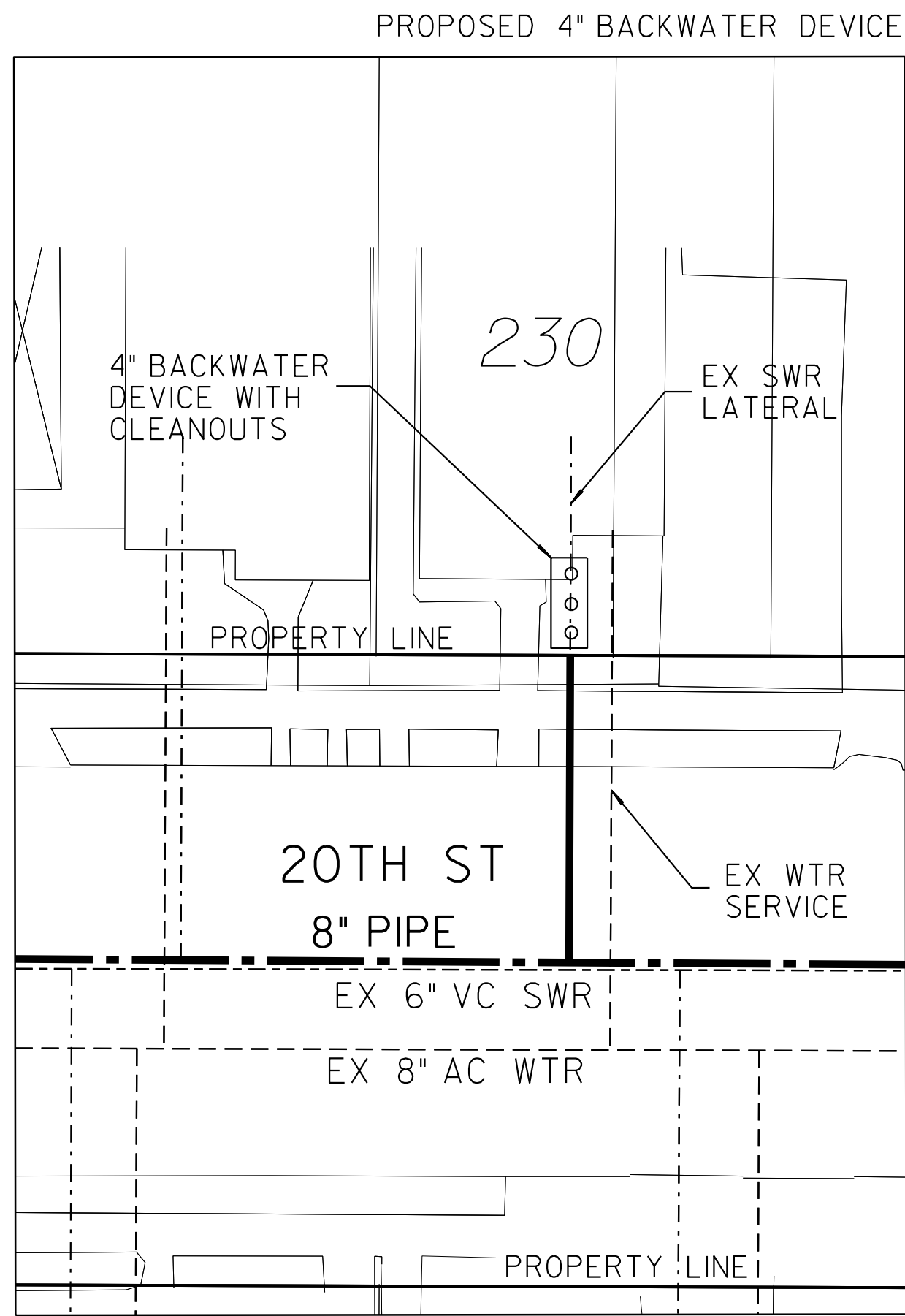


C-39			
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 41 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DCE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	FILED
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	41208-41-D
INSPECTOR		DATE COMPLETED	

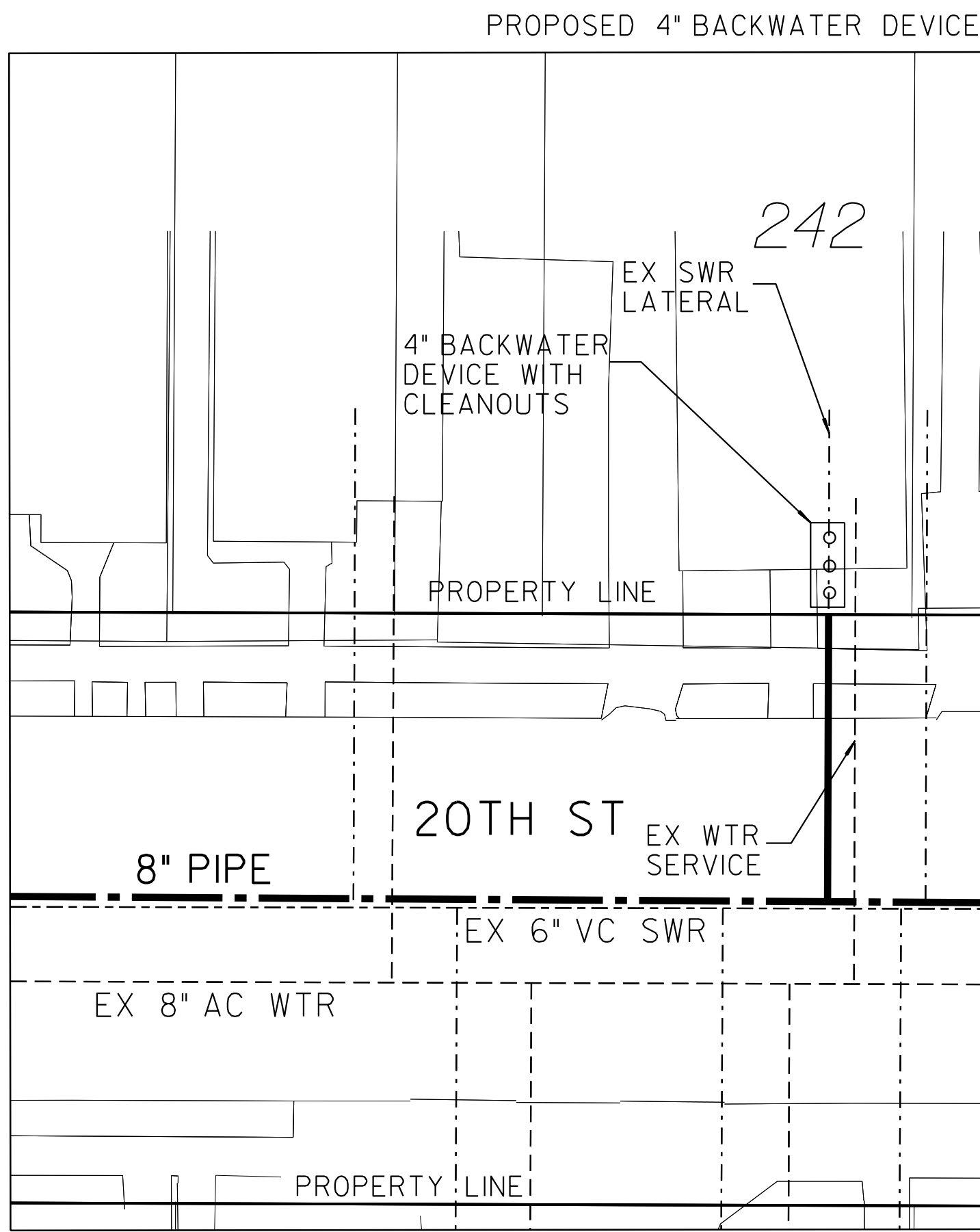
100% DESIGN

BACKWATER EXHIBIT

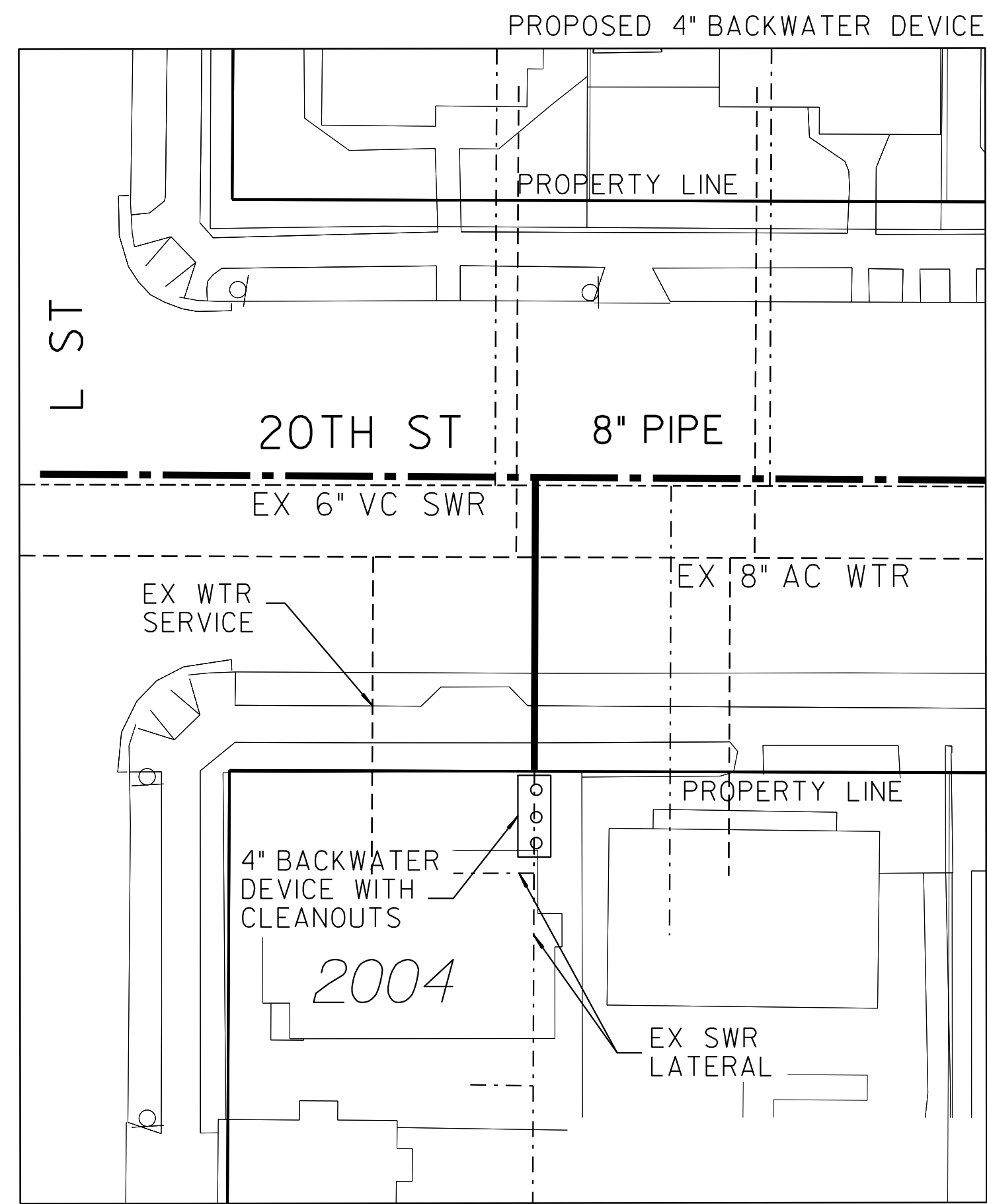
BACKWATER DEVICE EXHIBIT



230 20TH STREET
SAN DIEGO, CA 92102



242 20TH STREET
SAN DIEGO, CA 92102

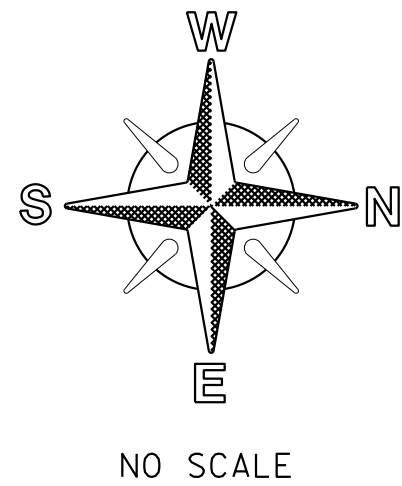


2004 L STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○○○
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

NOTE:

- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
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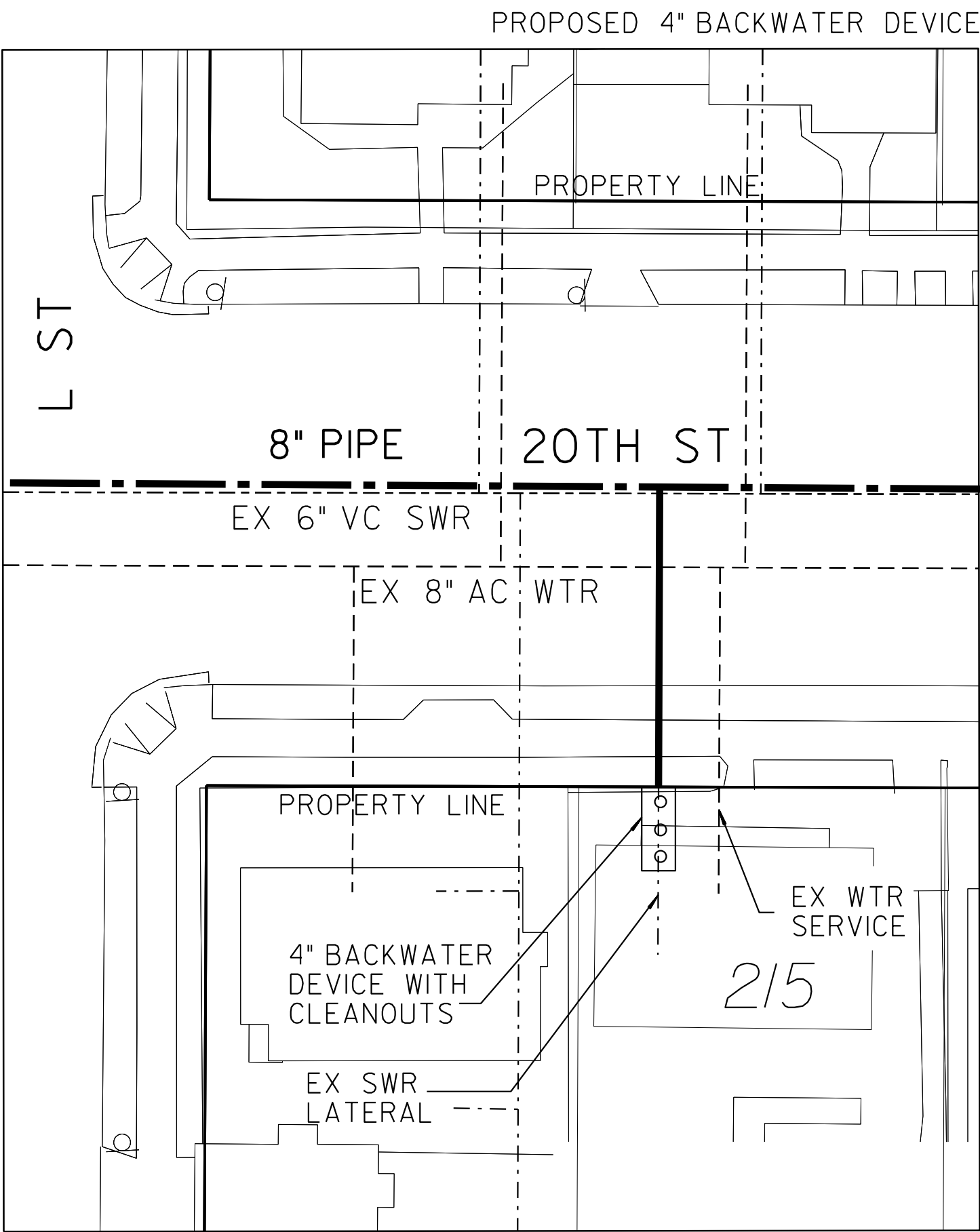
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 42 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
		FILED	
		DATE COMPLETED	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-42-D	

100% DESIGN

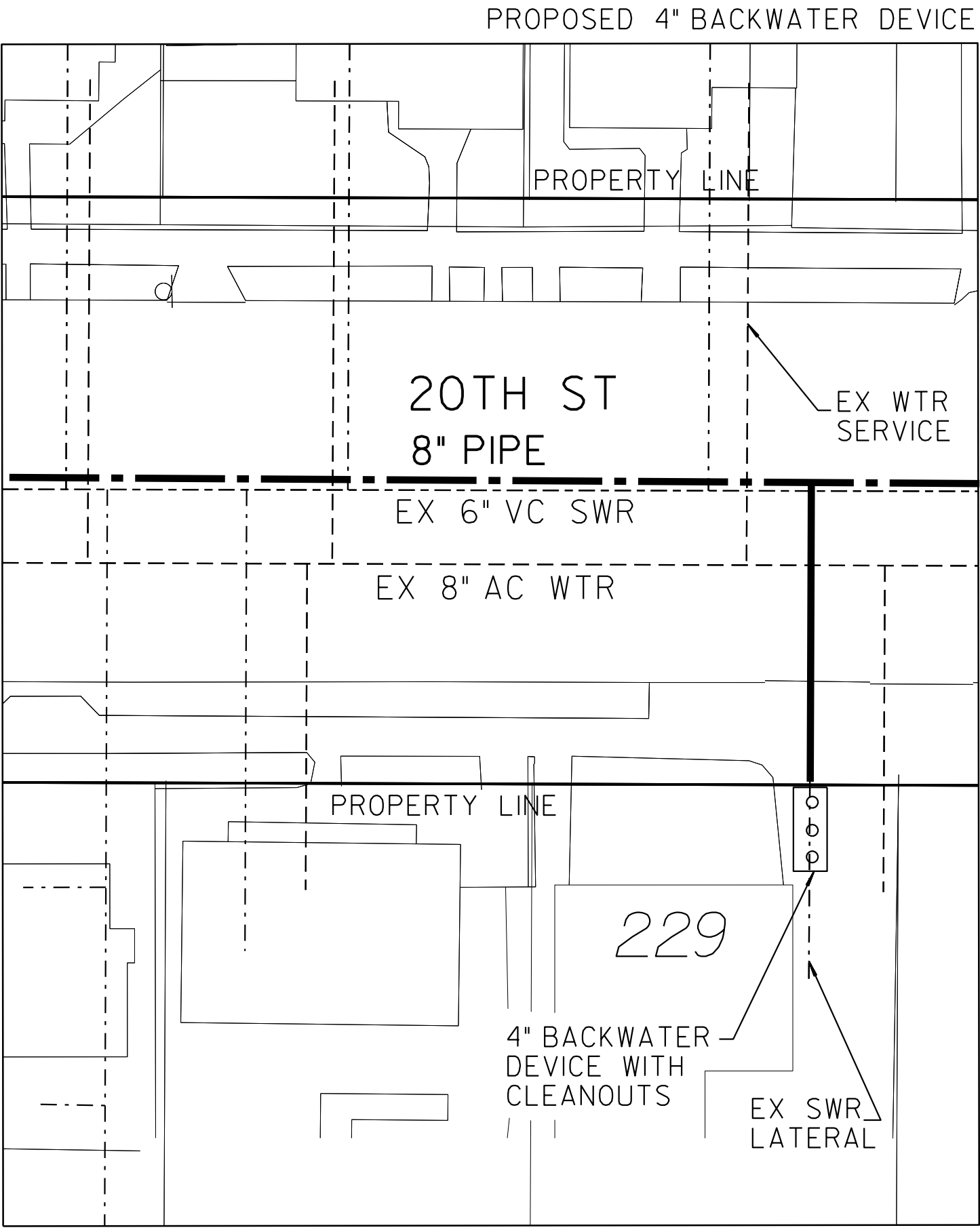
C-40

BACKWATER EXHIBIT

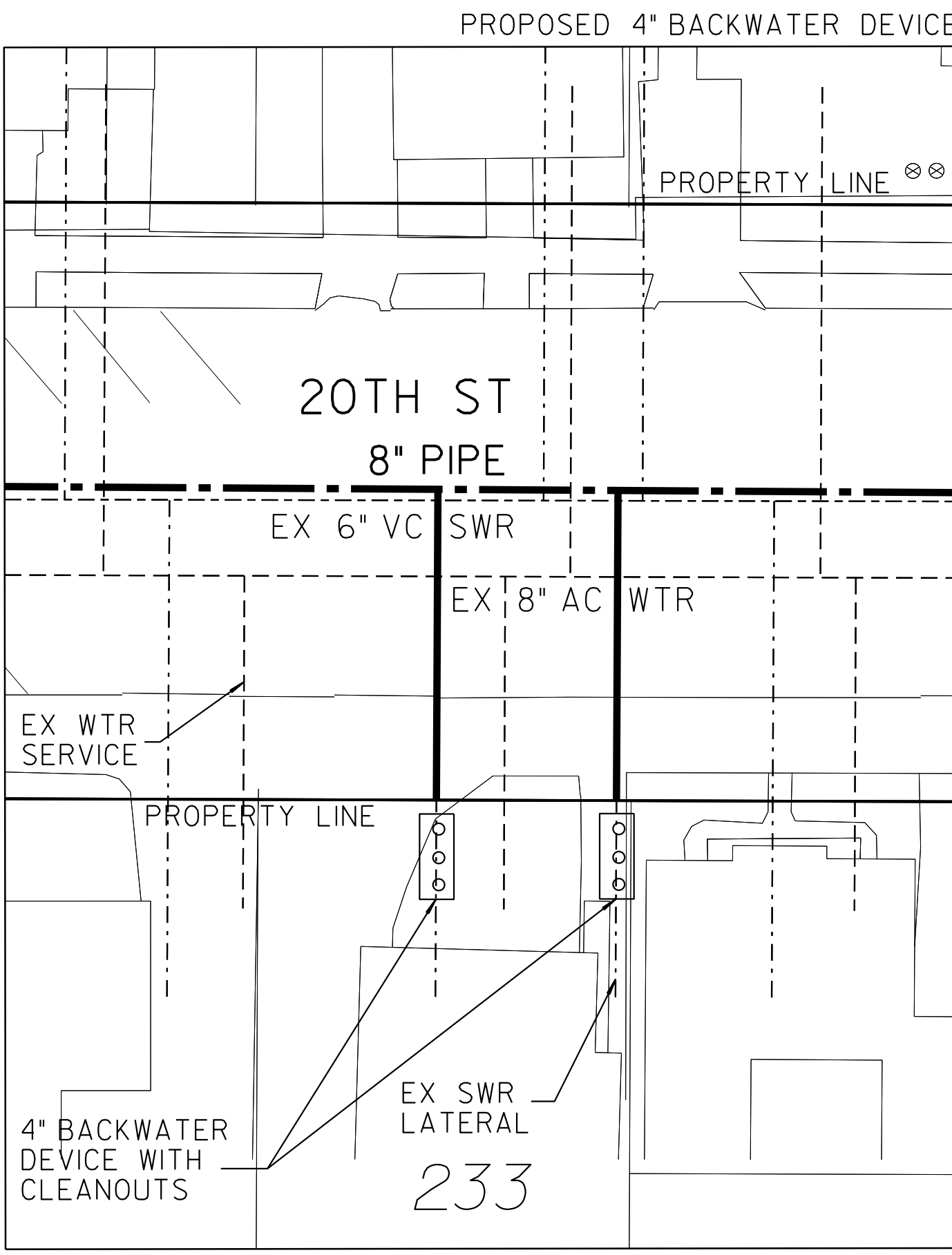
BACKWATER DEVICE EXHIBIT



215 20TH STREET
SAN DIEGO, CA 92102



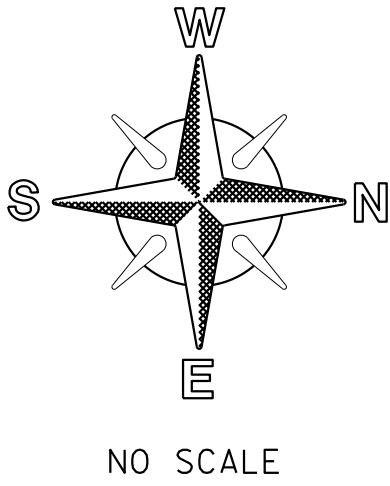
229 20TH STREET
SAN DIEGO, CA 92102



233 20TH STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○○○
PROP SWR MAIN	---
PROP SWR LATERAL	—
PROPERTY LINE	---

- NOTE:
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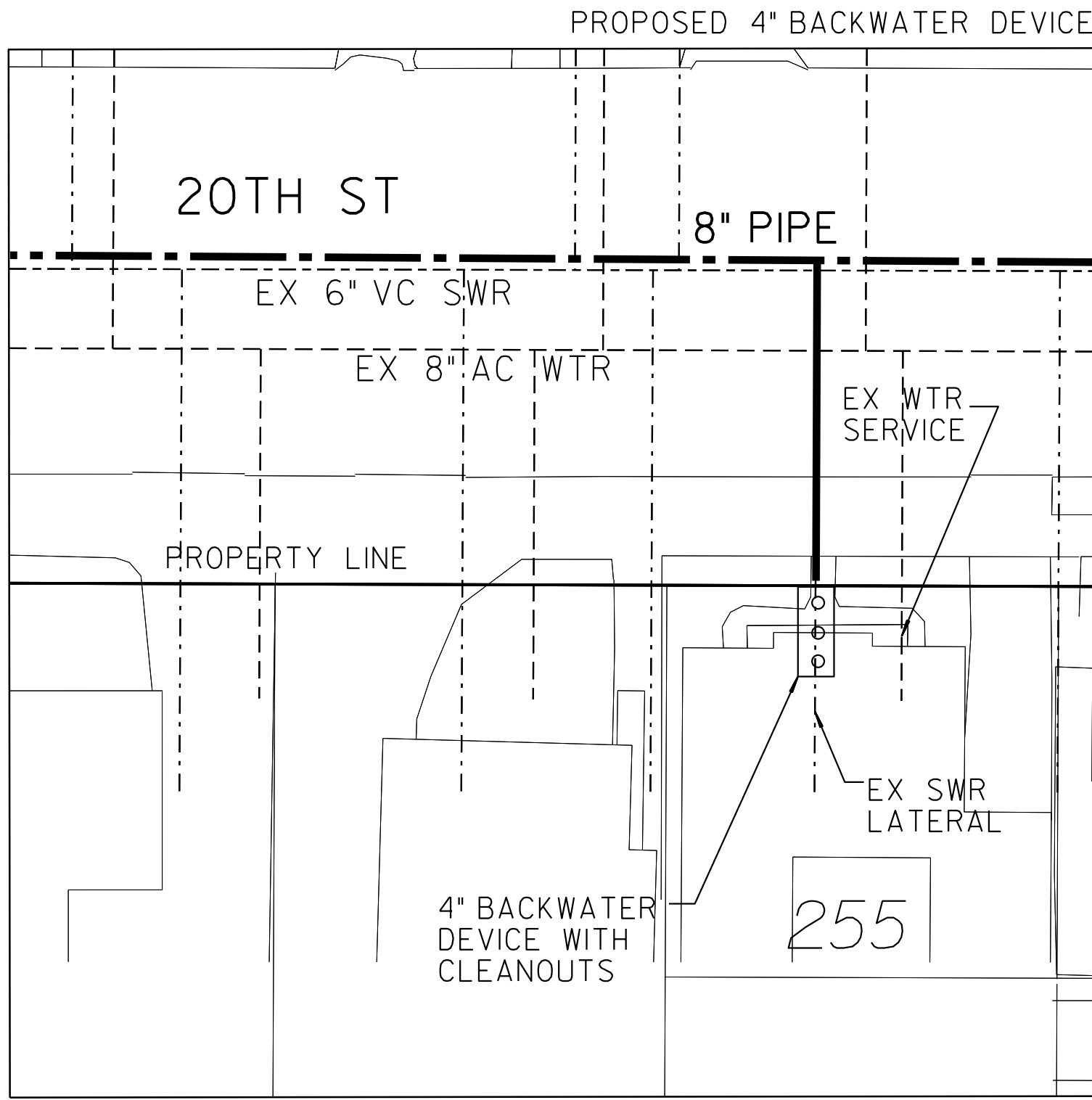


C-41		SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 43 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL	BP/DC		194-1725, 198-1725 CCS27 COORDINATE
			1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	41208-43-D

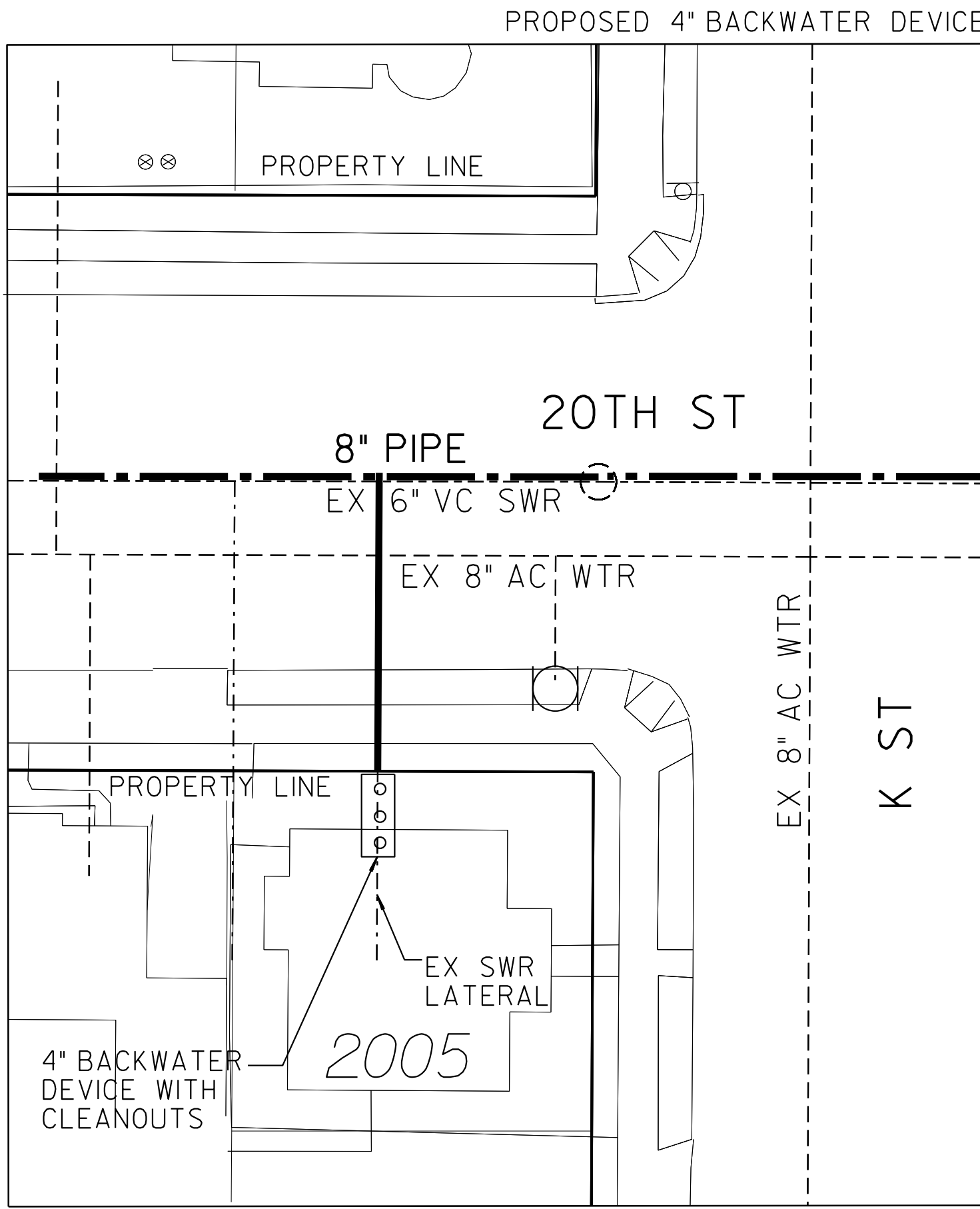
100% DESIGN

BACKWATER EXHIBIT

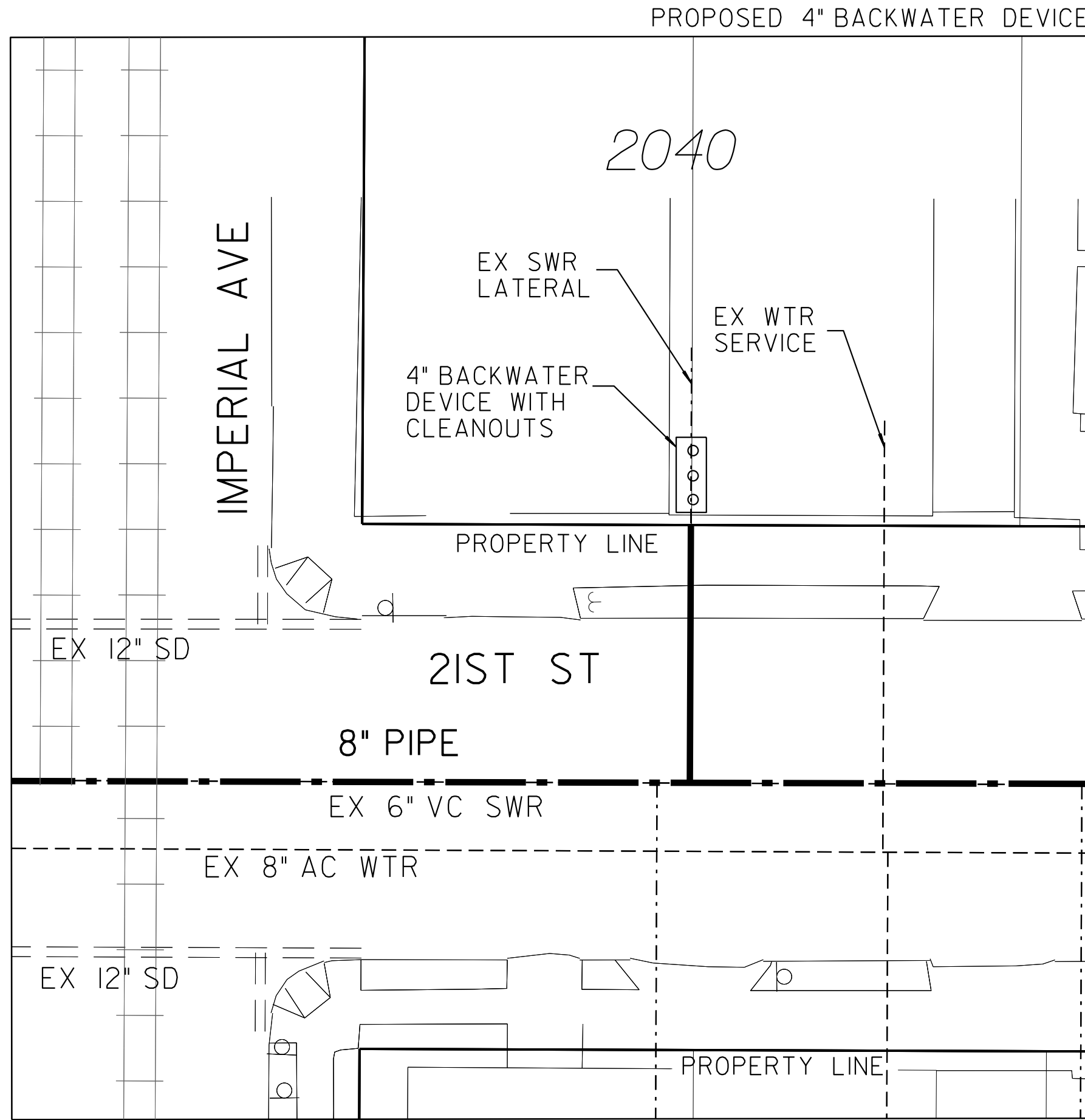
BACKWATER DEVICE EXHIBIT



255 20TH STREET
SAN DIEGO, CA 92102



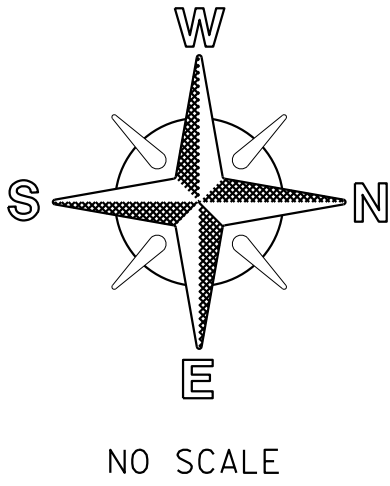
2005 K STREET
SAN DIEGO, CA 92102



2040 IMPERIAL AVE
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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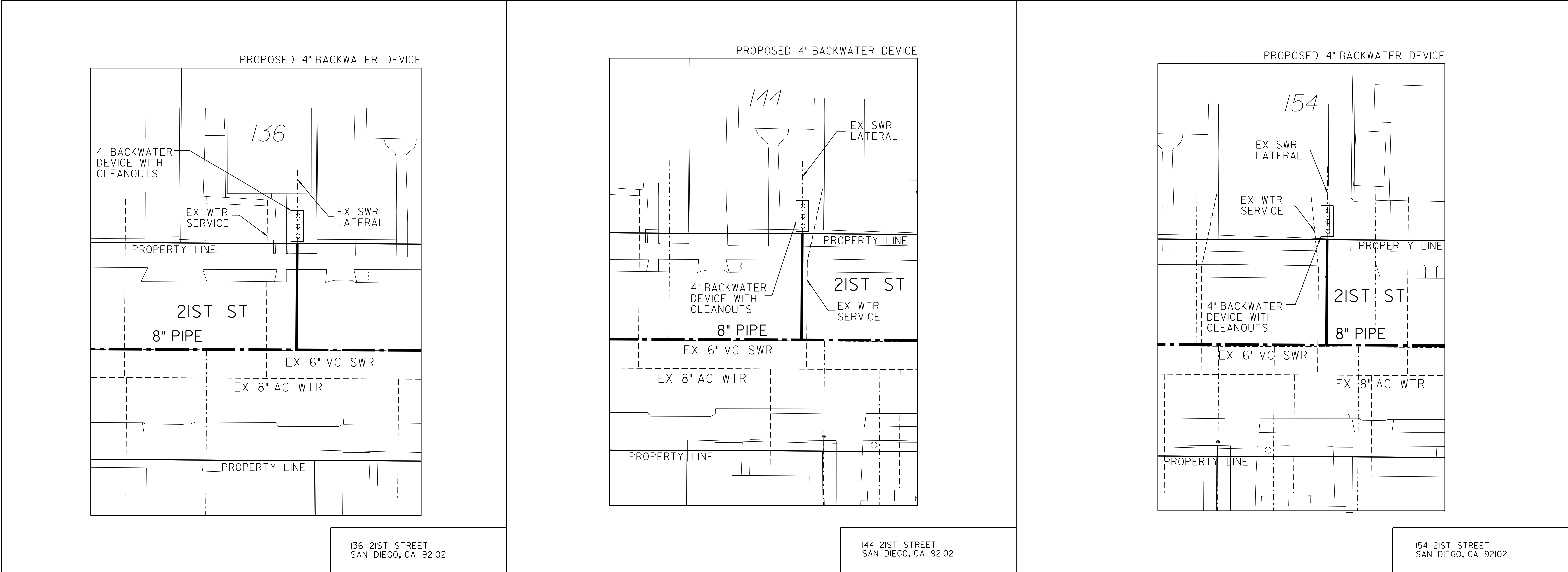
NO SCALE

C-42			
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 44 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-44-D	

100% DESIGN

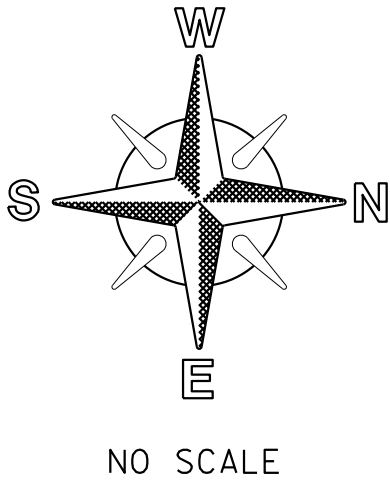
BACKWATER EXHIBIT

BACKWATER DEVICE EXHIBIT



LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○ ○ ○
PROP SWR MAIN	---
PROP SWR LATERAL	—
PROPERTY LINE	---

- NOTE:
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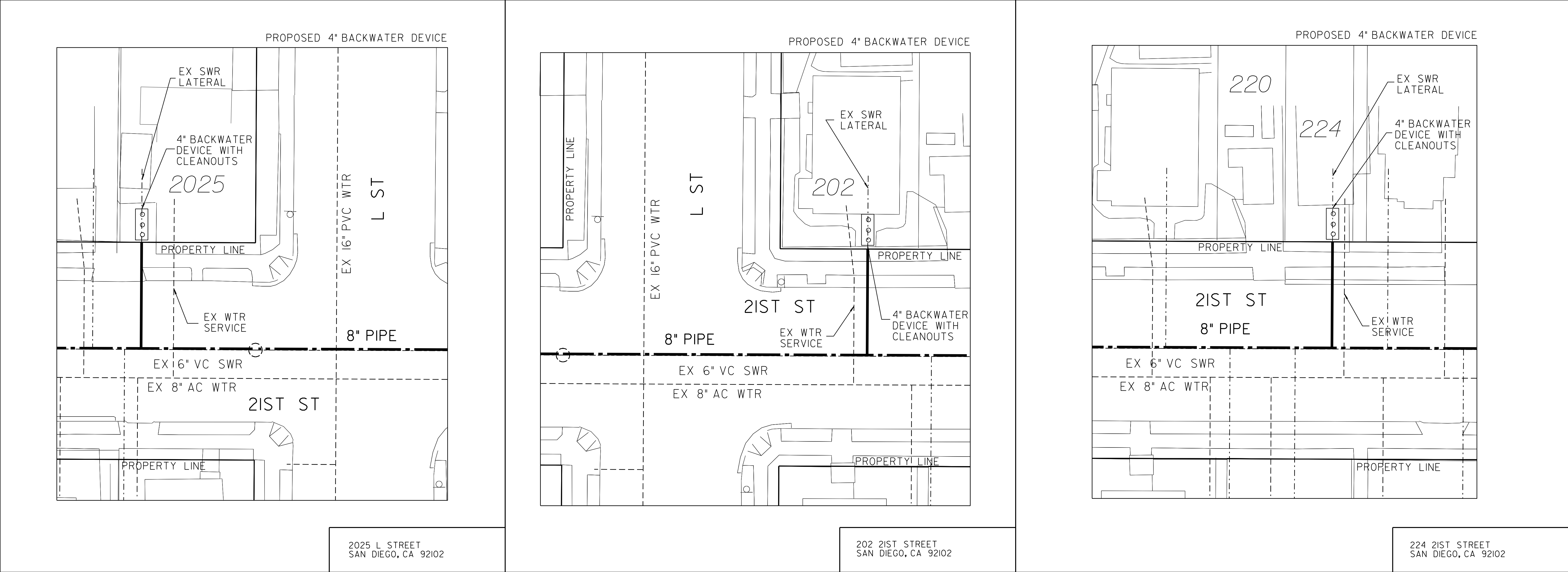


C-43			
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 45 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		FILMED
		CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		41208-45-D	

100% DESIGN

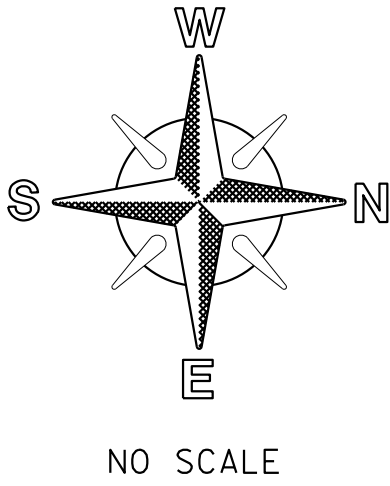
BACKWATER EXHIBIT

BACKWATER DEVICE EXHIBIT



LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	
PROP SWR MAIN	
PROP SWR LATERAL	
PROPERTY LINE	

- NOTE:
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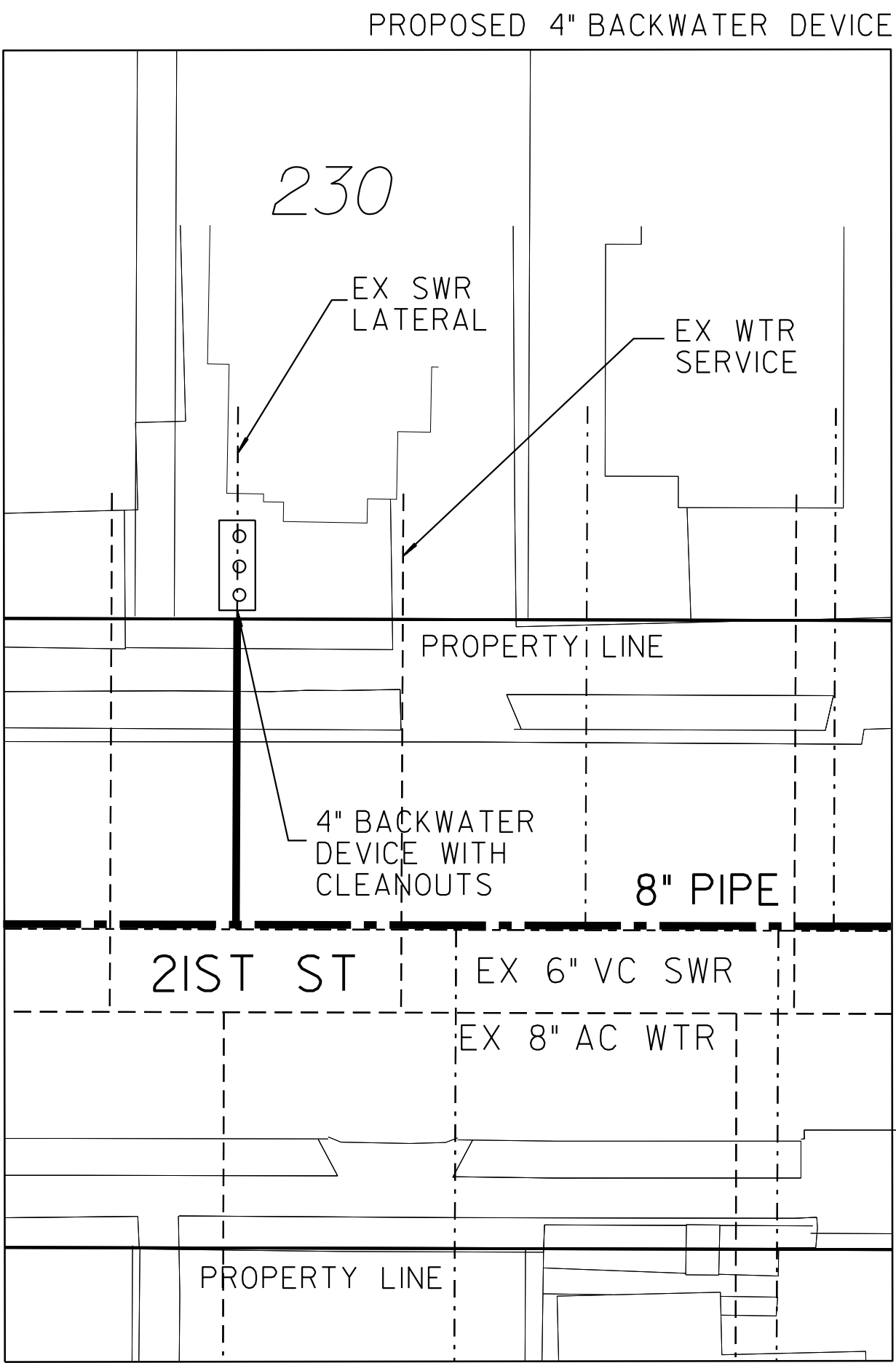
SEWER & AC WATER GROUP 793			
BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 46 OF 56 SHEETS		WATER WBS B-15070	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-46-D	

100% DESIGN

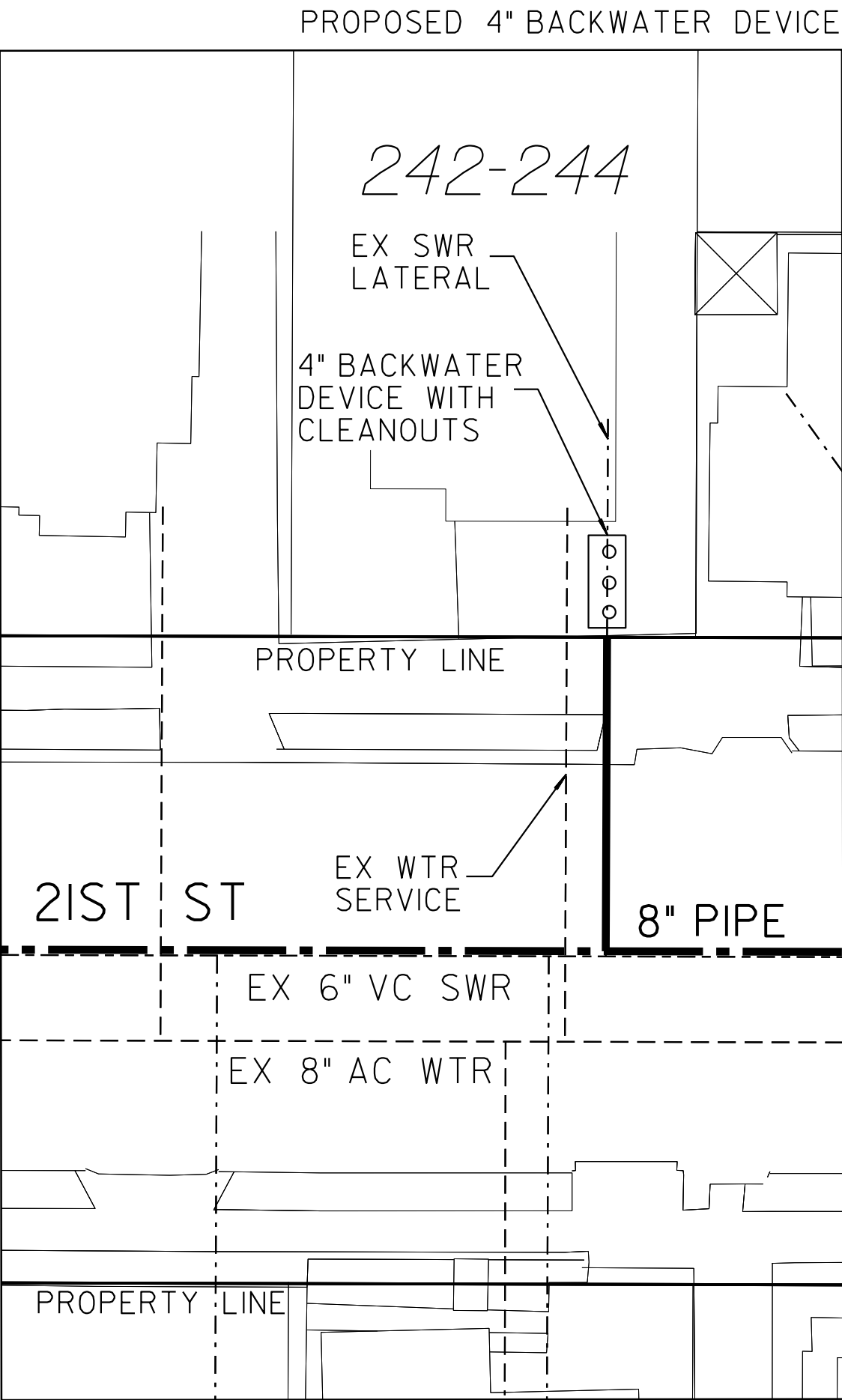
C-44

BACKWATER EXHIBIT

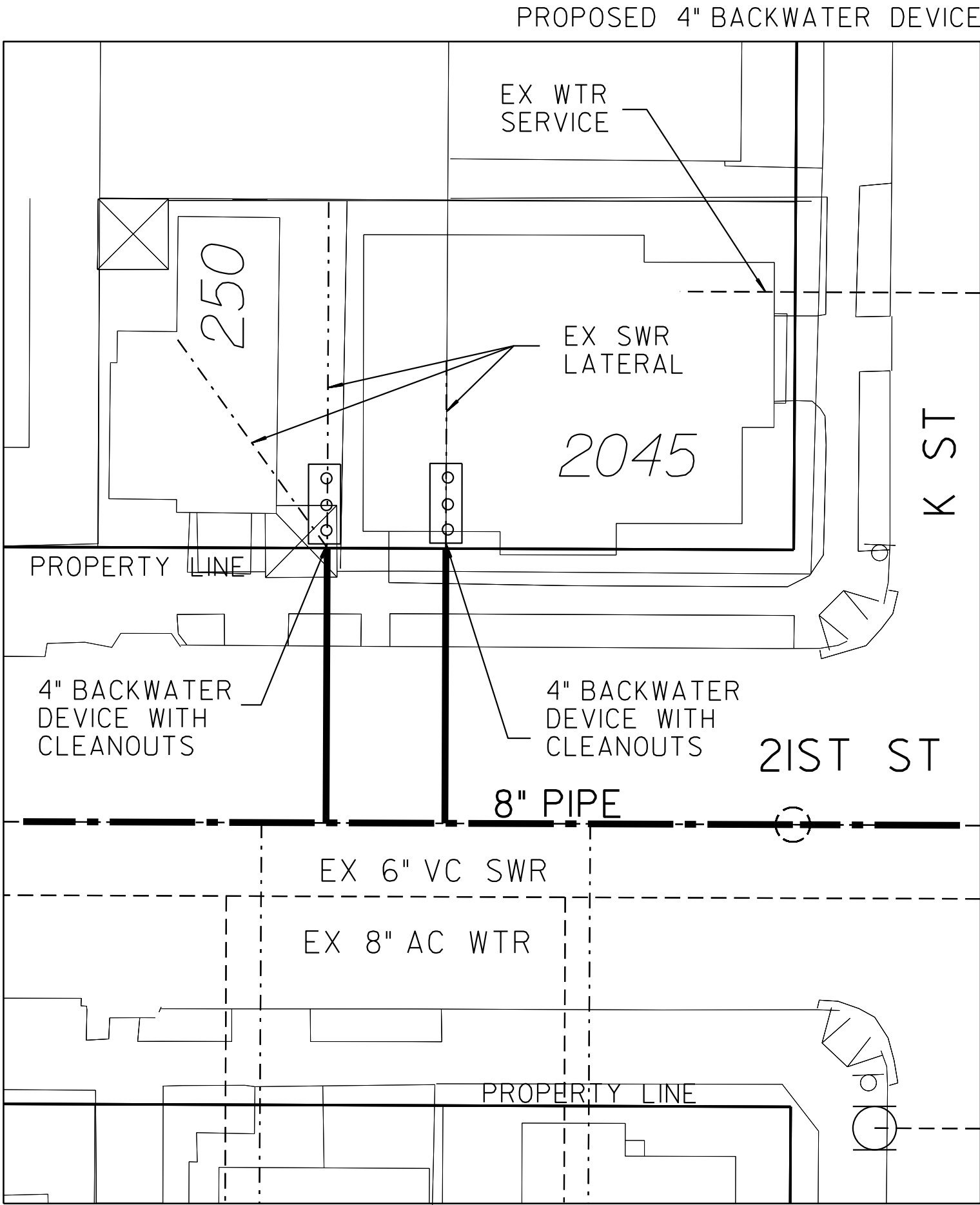
BACKWATER DEVICE EXHIBIT



230 21ST STREET
SAN DIEGO, CA 92102



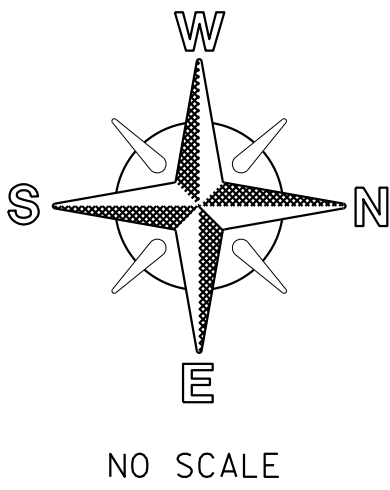
242 21ST STREET
SAN DIEGO, CA 92102



2045 K STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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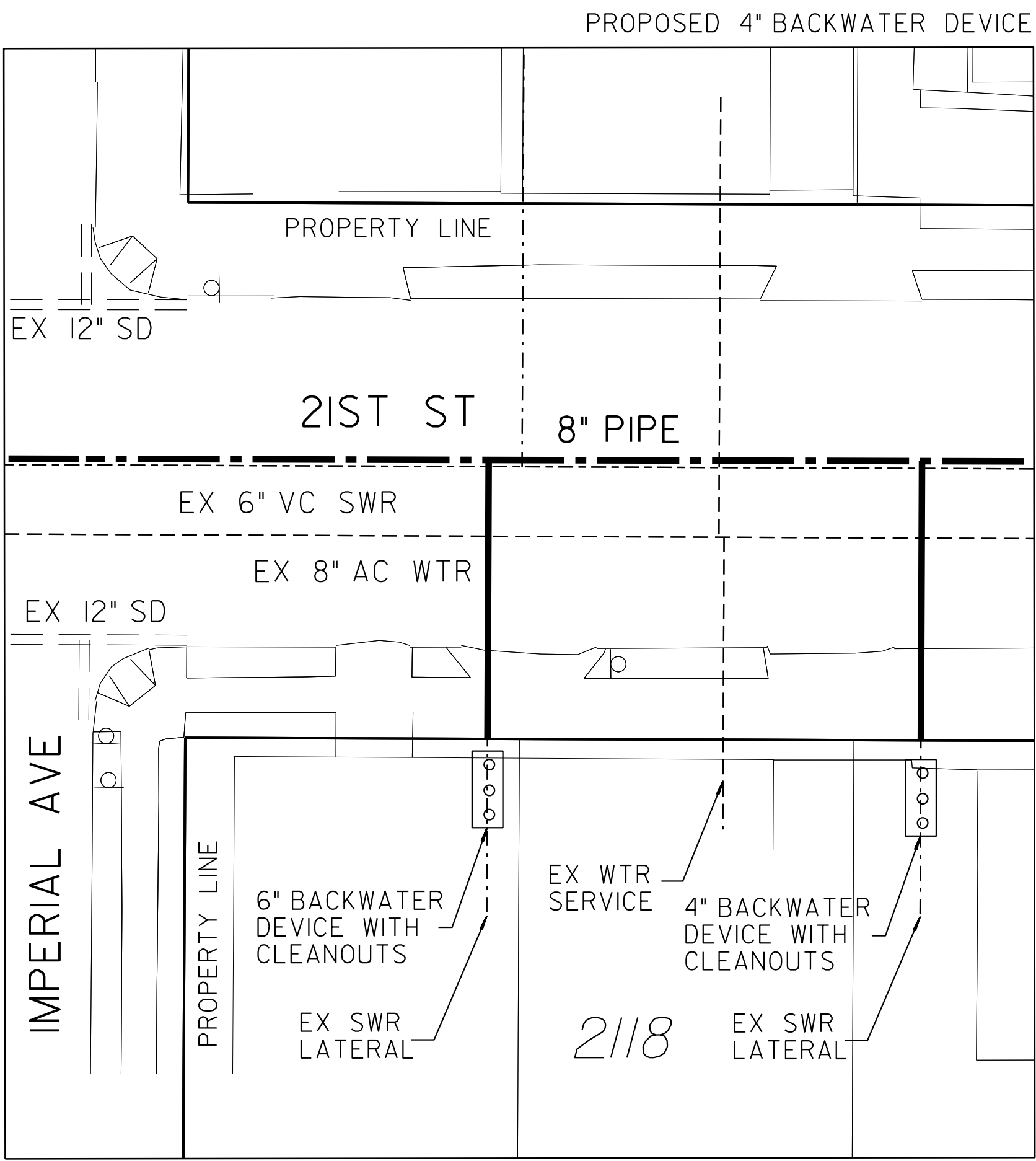


C-45		SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 47 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-47-D	

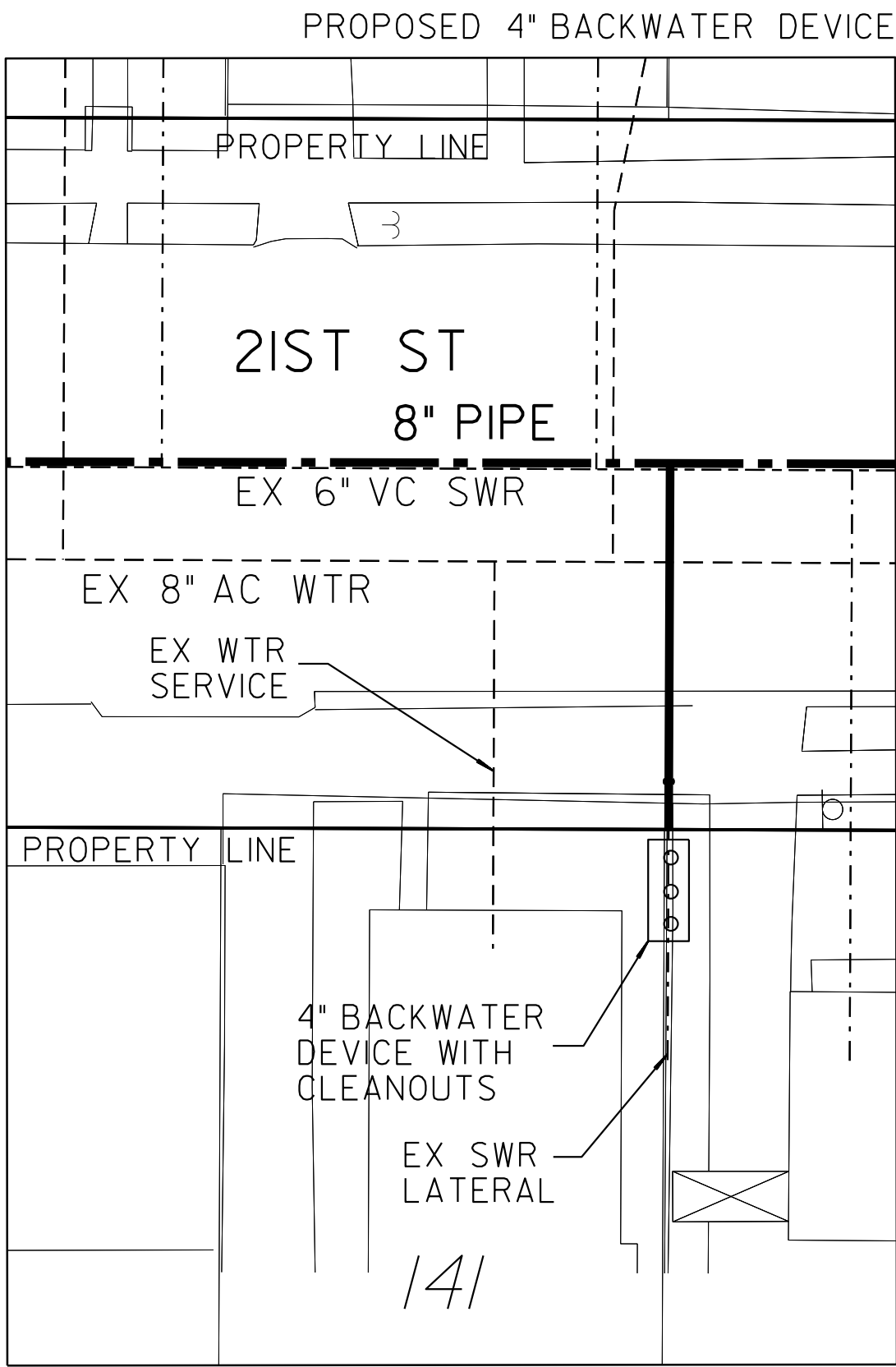
100% DESIGN

BACKWATER EXHIBIT

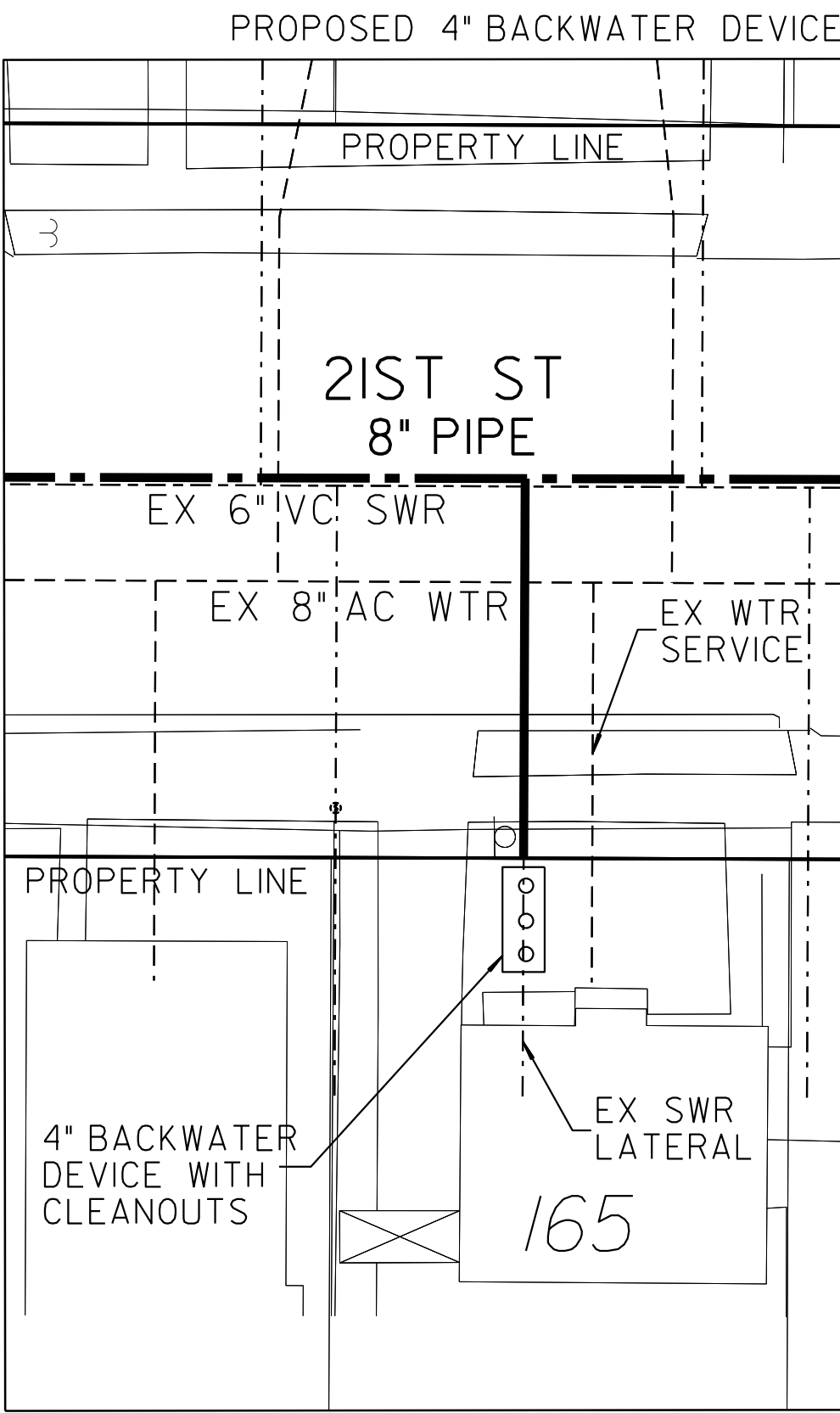
BACKWATER DEVICE EXHIBIT



2118 IMPERIAL AVE
SAN DIEGO, CA 92102



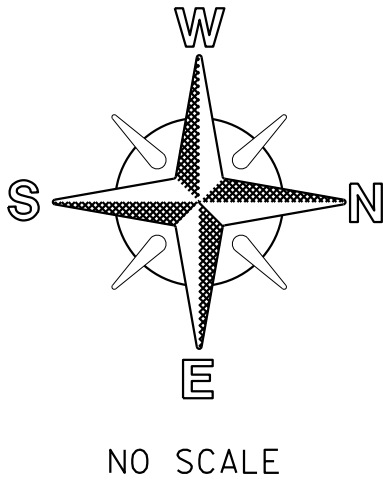
141 21ST STREET
SAN DIEGO, CA 92102



165 21ST STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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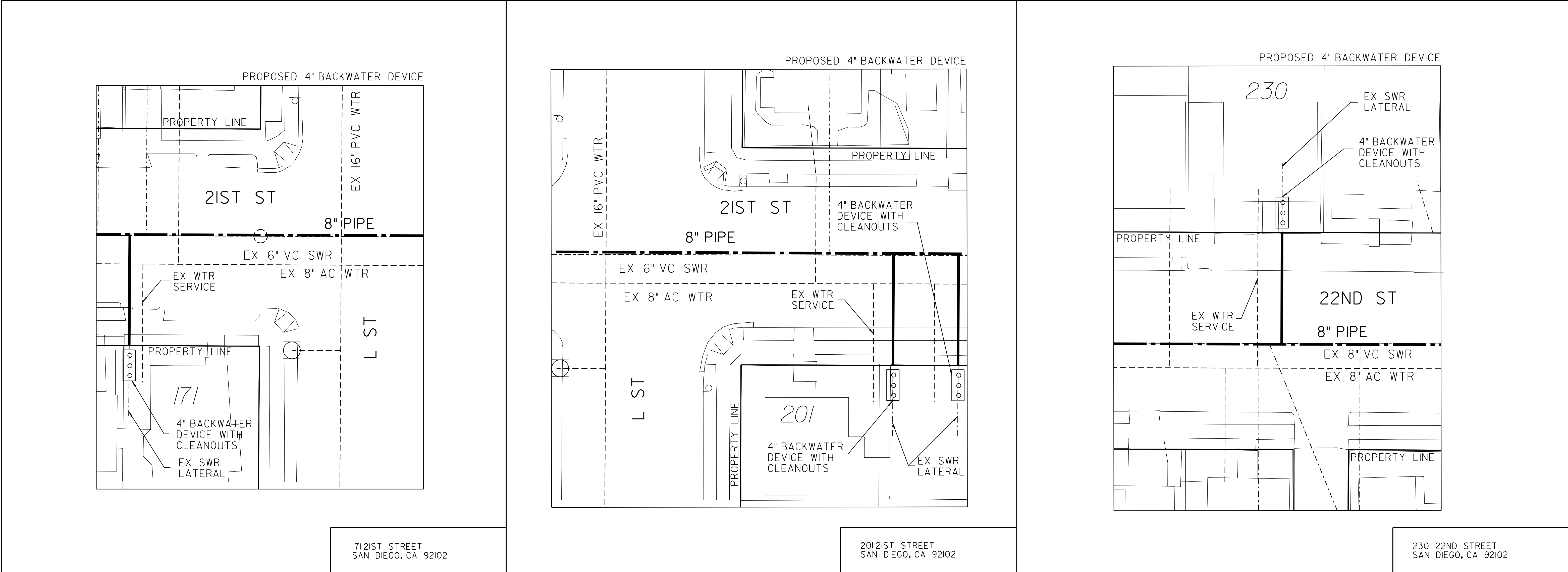


C-46			
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 48 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION		BY	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL		BP/DC	194-1725, 198-1725 CCS27 COORDINATE
			1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	41208-48-D

100% DESIGN

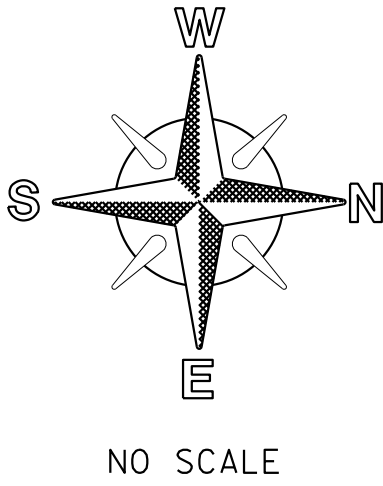
BACKWATER EXHIBIT

BACKWATER DEVICE EXHIBIT



LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○○○
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-I05 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
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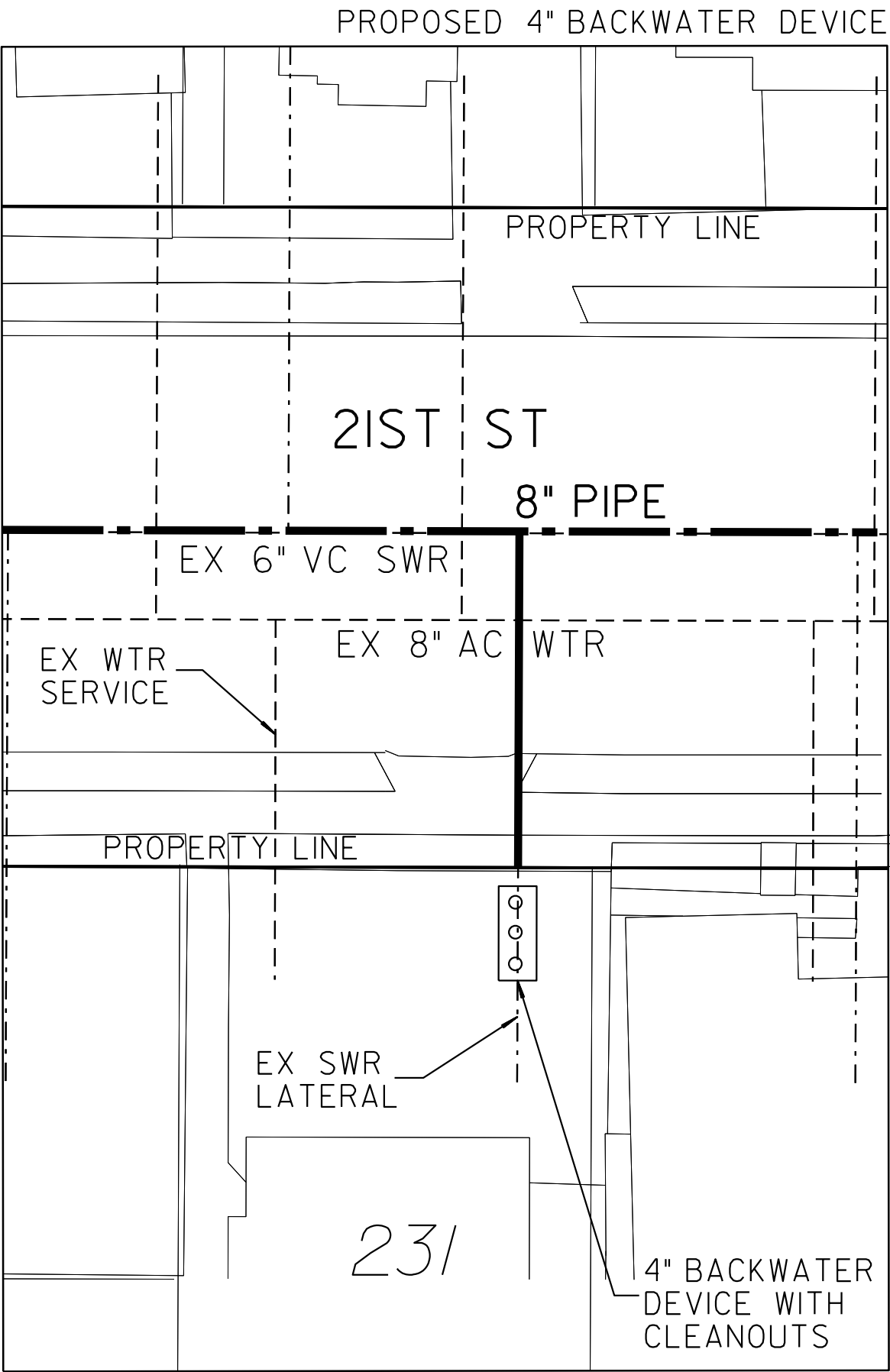


C-47			
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 49 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL	BP/DC		194-1725, 198-1725 CCS27 COORDINATE
			1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	
		41208-49-D	

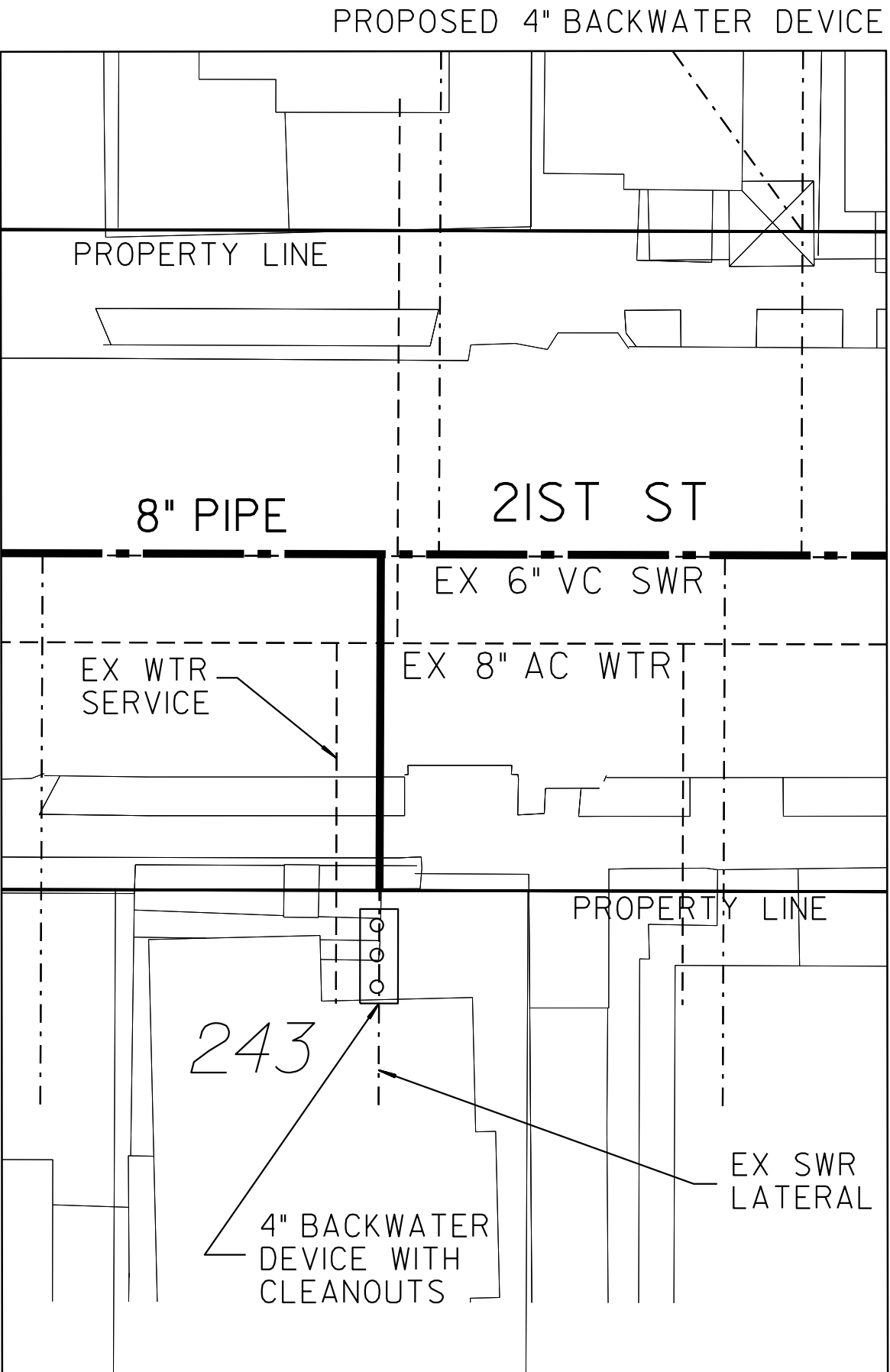
100% DESIGN

BACKWATER EXHIBIT

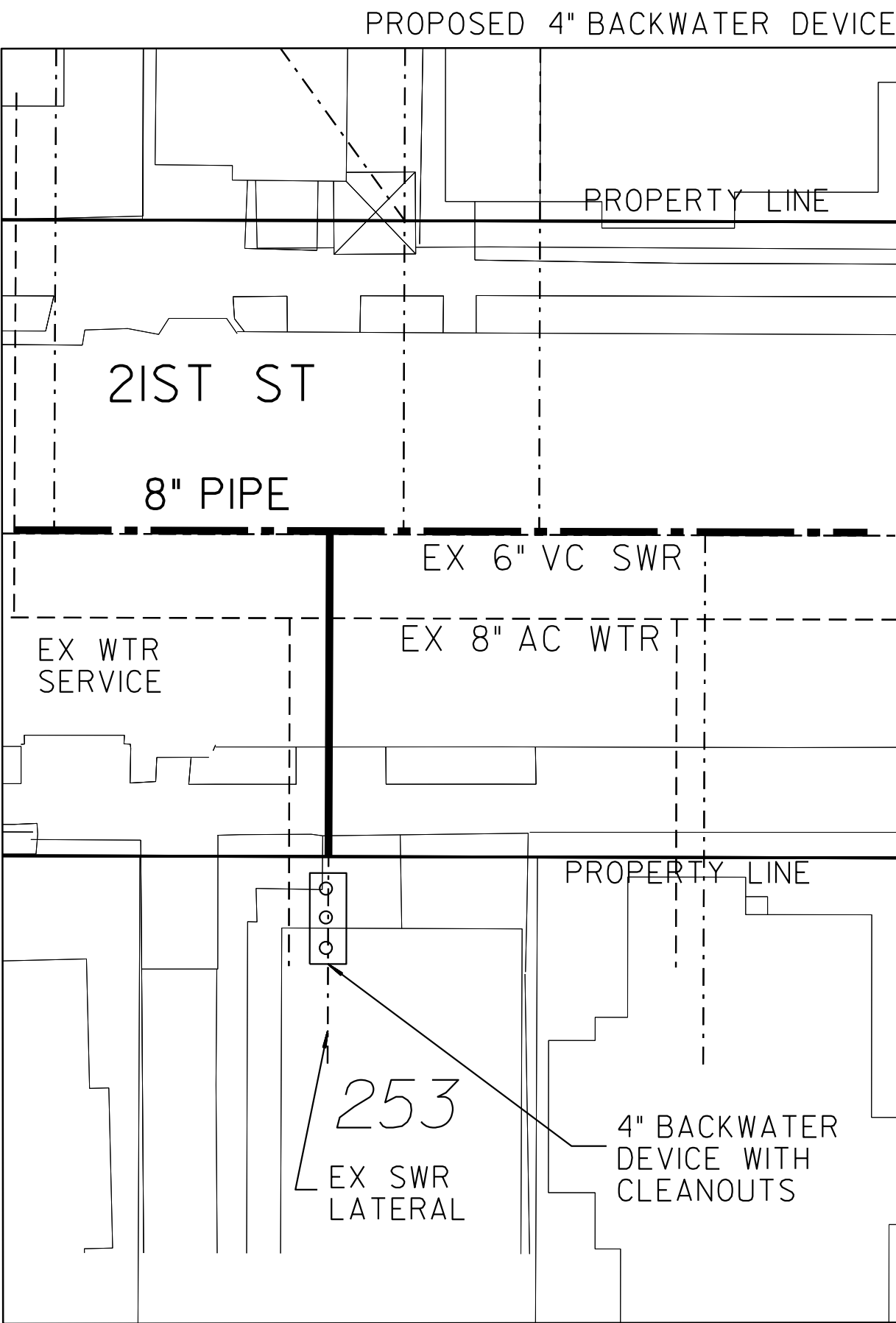
BACKWATER DEVICE EXHIBIT



231 21ST STREET
SAN DIEGO, CA 92102



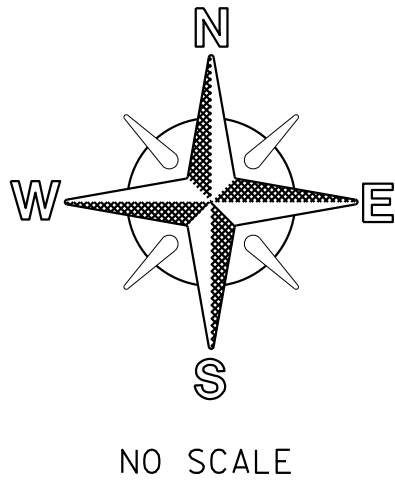
243 21ST STREET
SAN DIEGO, CA 92102



253 21ST STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
- SEWER LATERAL DESIGN BASED ON SDS-105 AND SEWER DESIGN MANUAL 2015, SECTION 2.5.8.4; ALL SEWER LATERALS SHALL BE A MIN OF 2% SLOPE.
 - LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION & NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCIES.
 - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND BY CONTRACTOR.



NO SCALE

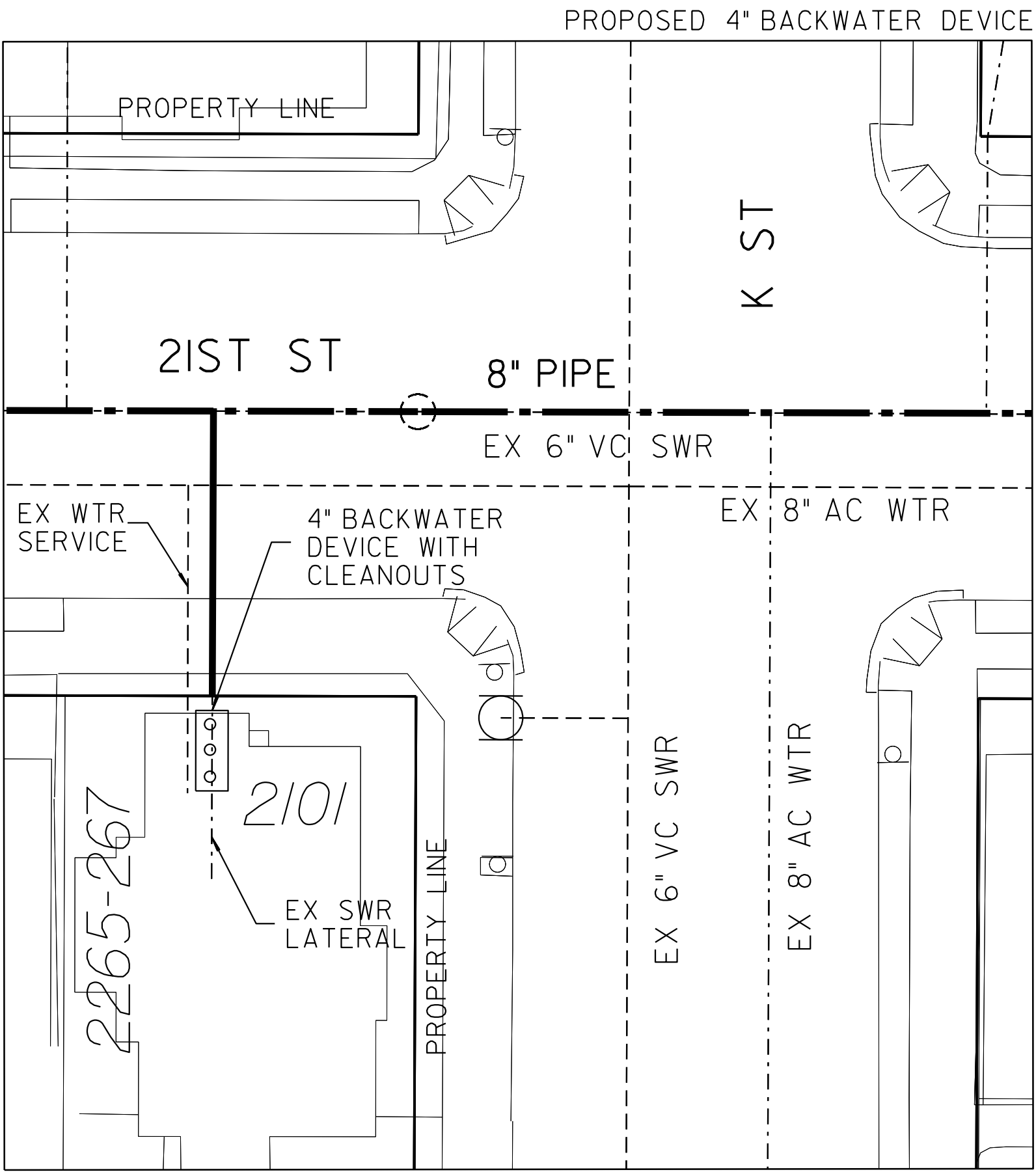
SEWER & AC WATER GROUP 793					
BACKWATER EXHIBIT					
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 50 OF 56 SHEETS				WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER _____ DATE _____ SHEILA BOSE CS9403 PRINT DCE NAME RCE# _____				SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER	
DESCRIPTION		BY	APPROVED	DATE	FILMED
ORIGINAL		BP/DC			

100% DESIGN

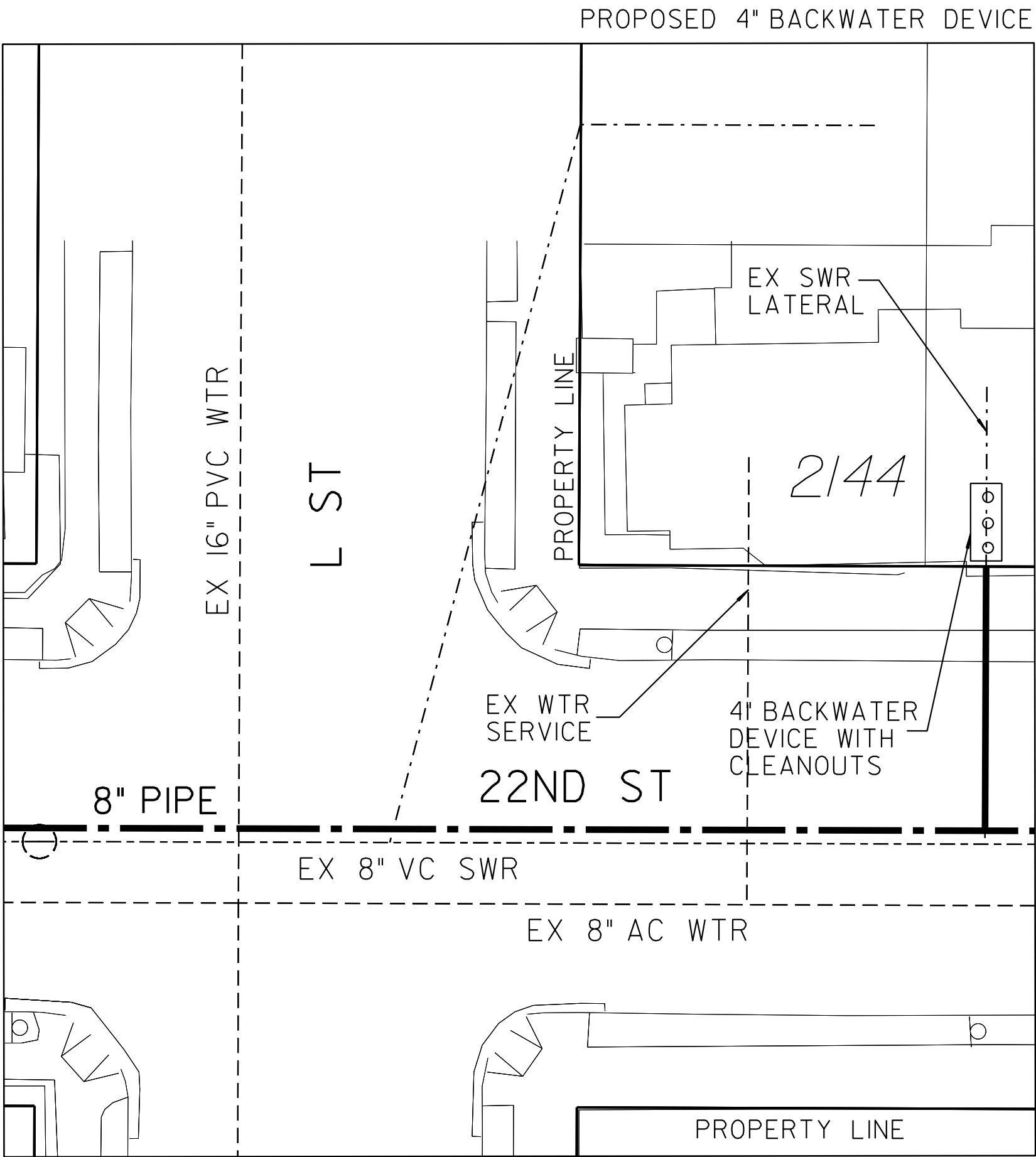
C-48

BACKWATER EXHIBIT

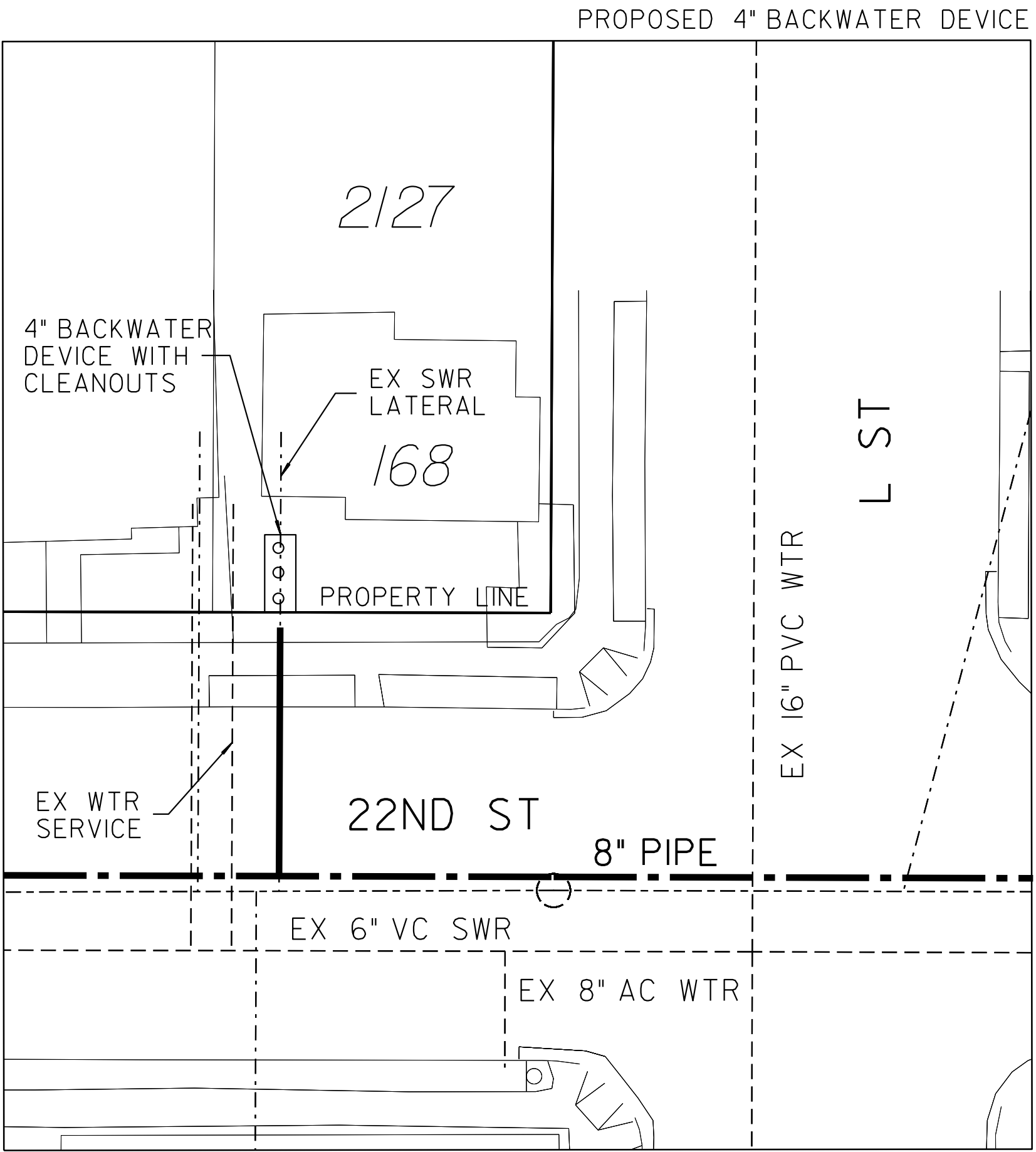
BACKWATER DEVICE EXHIBIT



2101 K STREET
SAN DIEGO, CA 92102



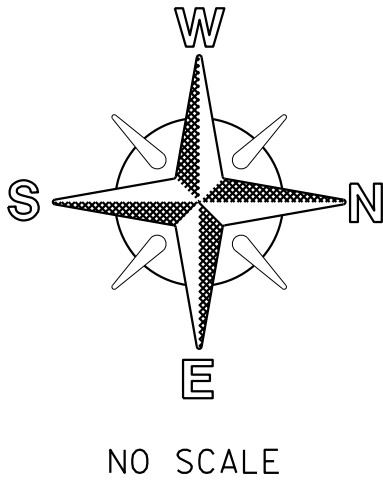
2144 L STREET
SAN DIEGO, CA 92102



168 L STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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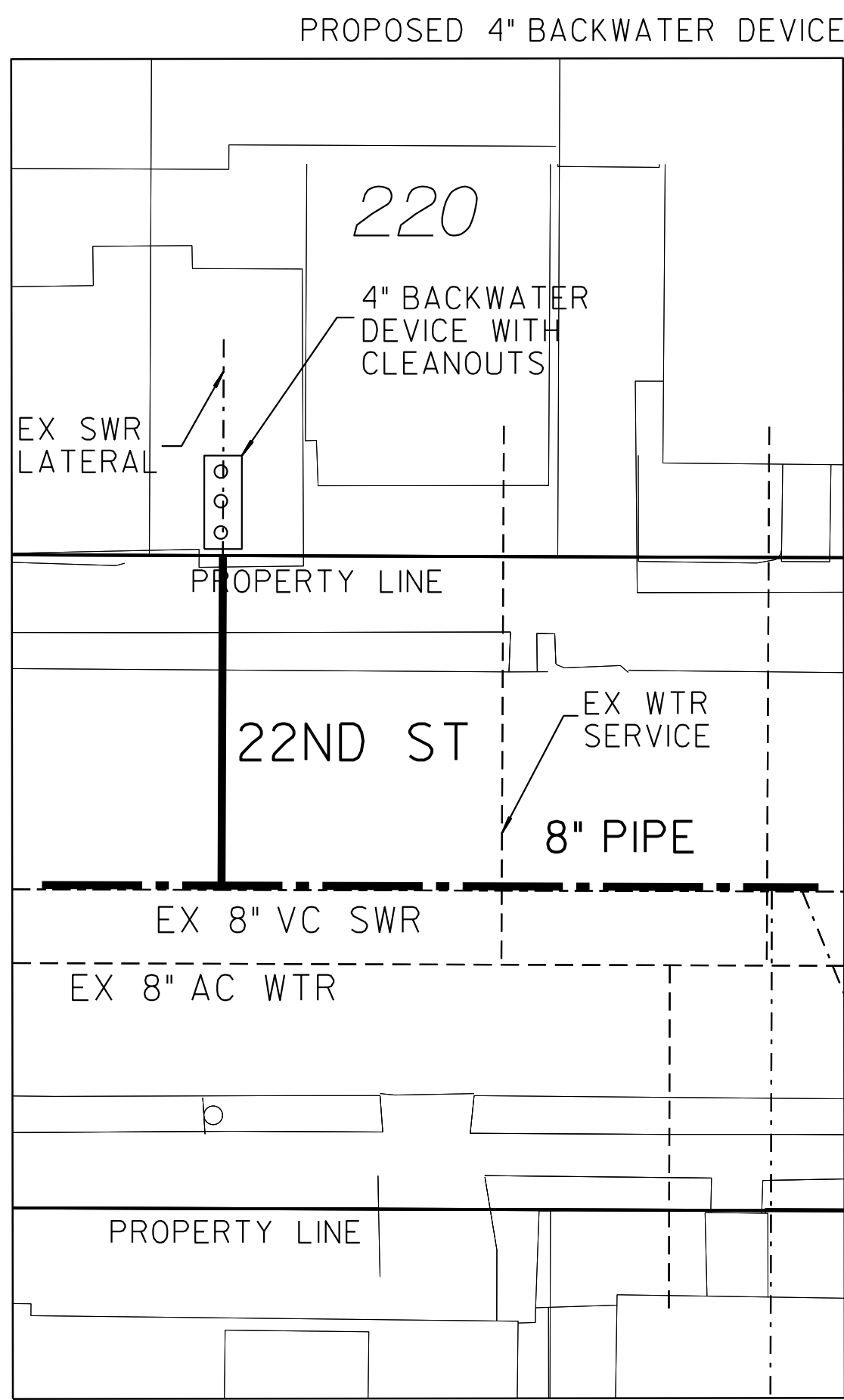
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 51 OF 56 SHEETS		WATER WBS B-15070	SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		FILMED
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-51-D	

100% DESIGN

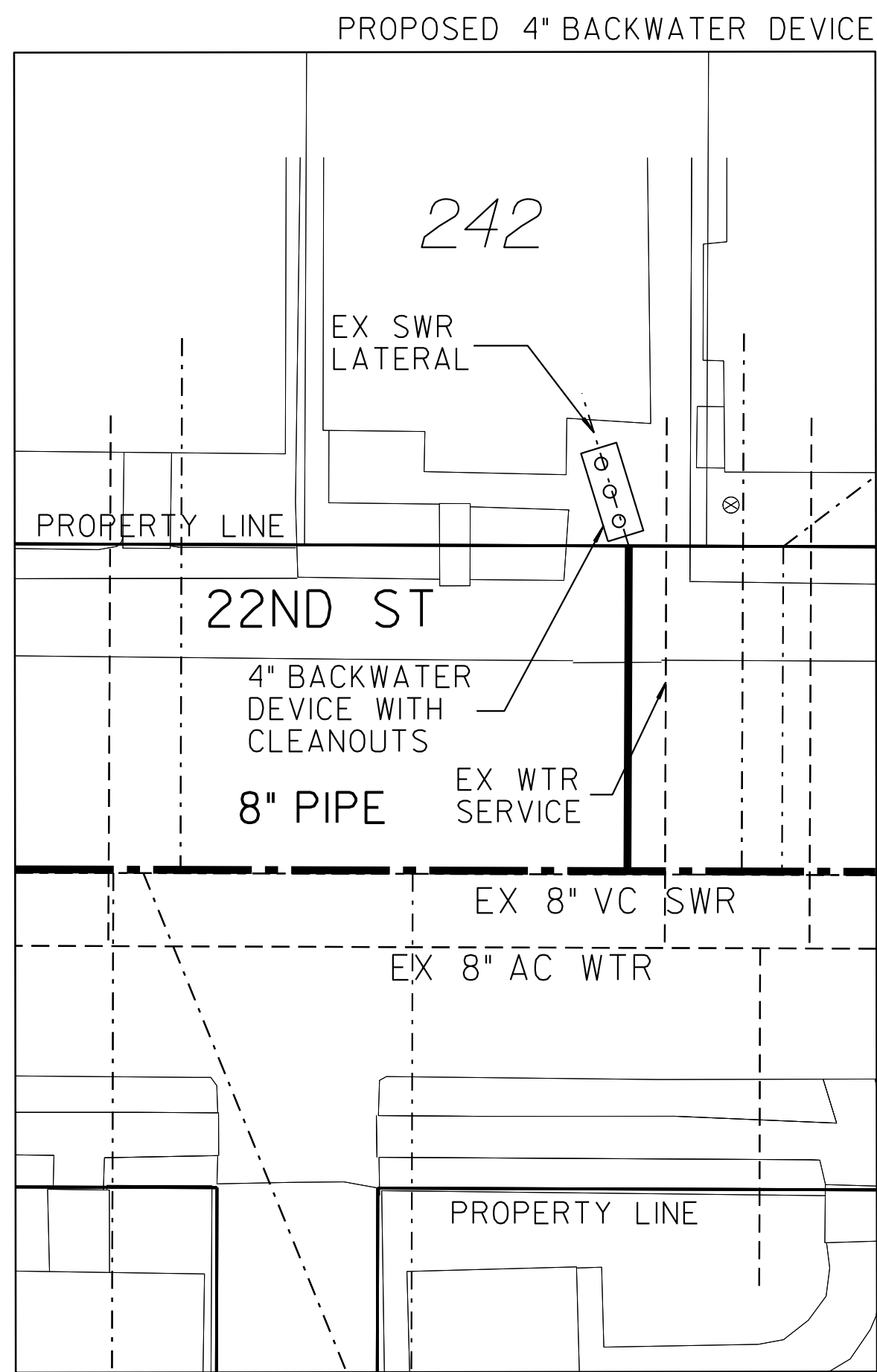
C-49

BACKWATER EXHIBIT

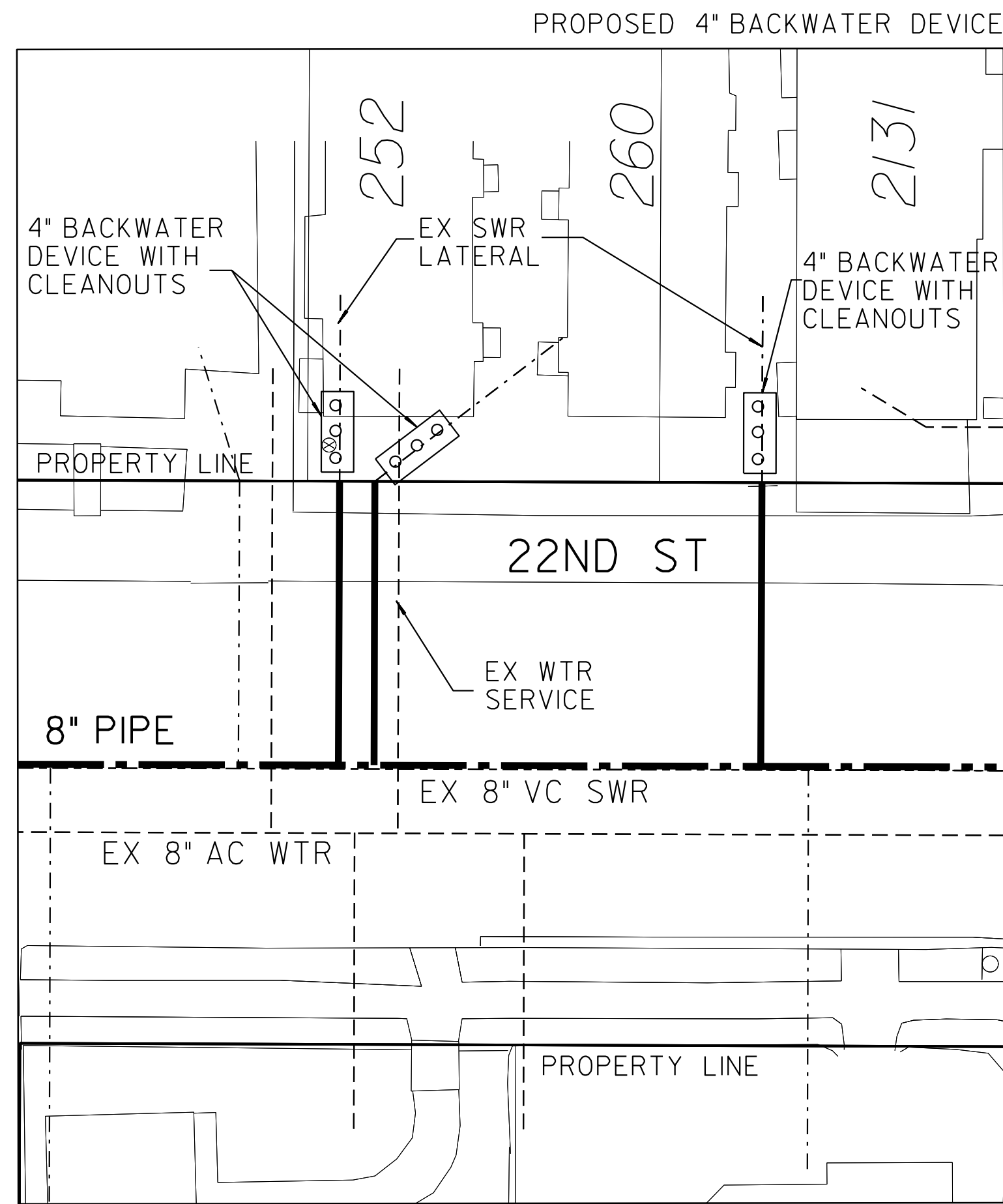
BACKWATER DEVICE EXHIBIT



220 22ND STREET
SAN DIEGO, CA 92102



242 22ND STREET
SAN DIEGO, CA 92102

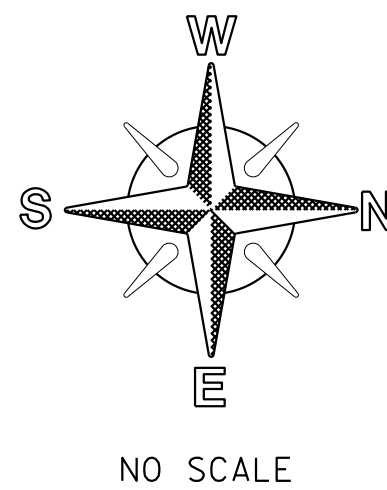


252 22ND STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	
PROP SWR MAIN	
PROP SWR LATERAL	
PROPERTY LINE	

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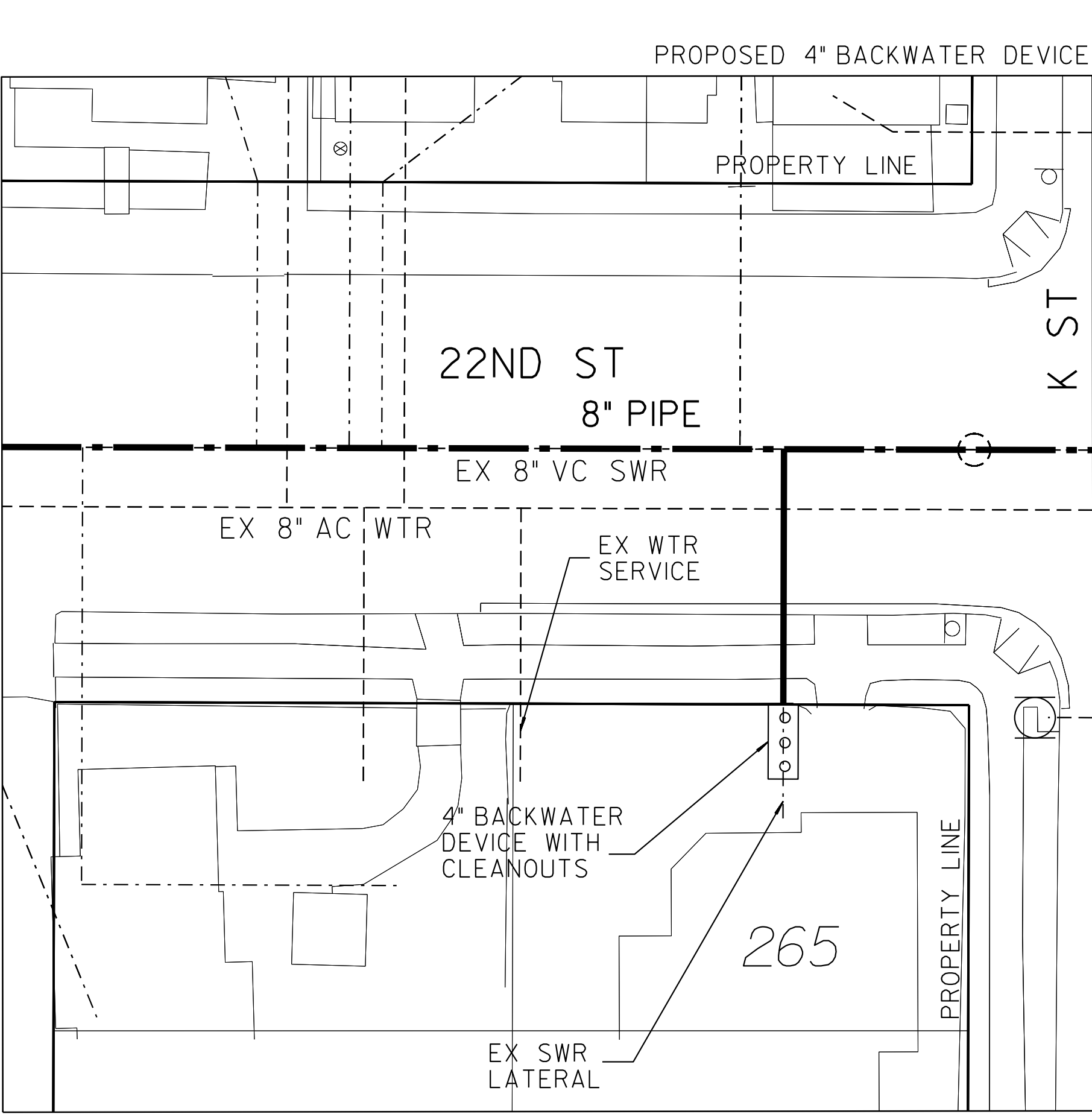
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 52 OF 56 SHEETS		WATER WBS B-15070	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		SEWER WBS B-00394	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION		BY	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL		BP/DC	194-1725, 198-1725 CCS27 COORDINATE
			1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR		DATE STARTED	41208-52-D
INSPECTOR		DATE COMPLETED	

100% DESIGN

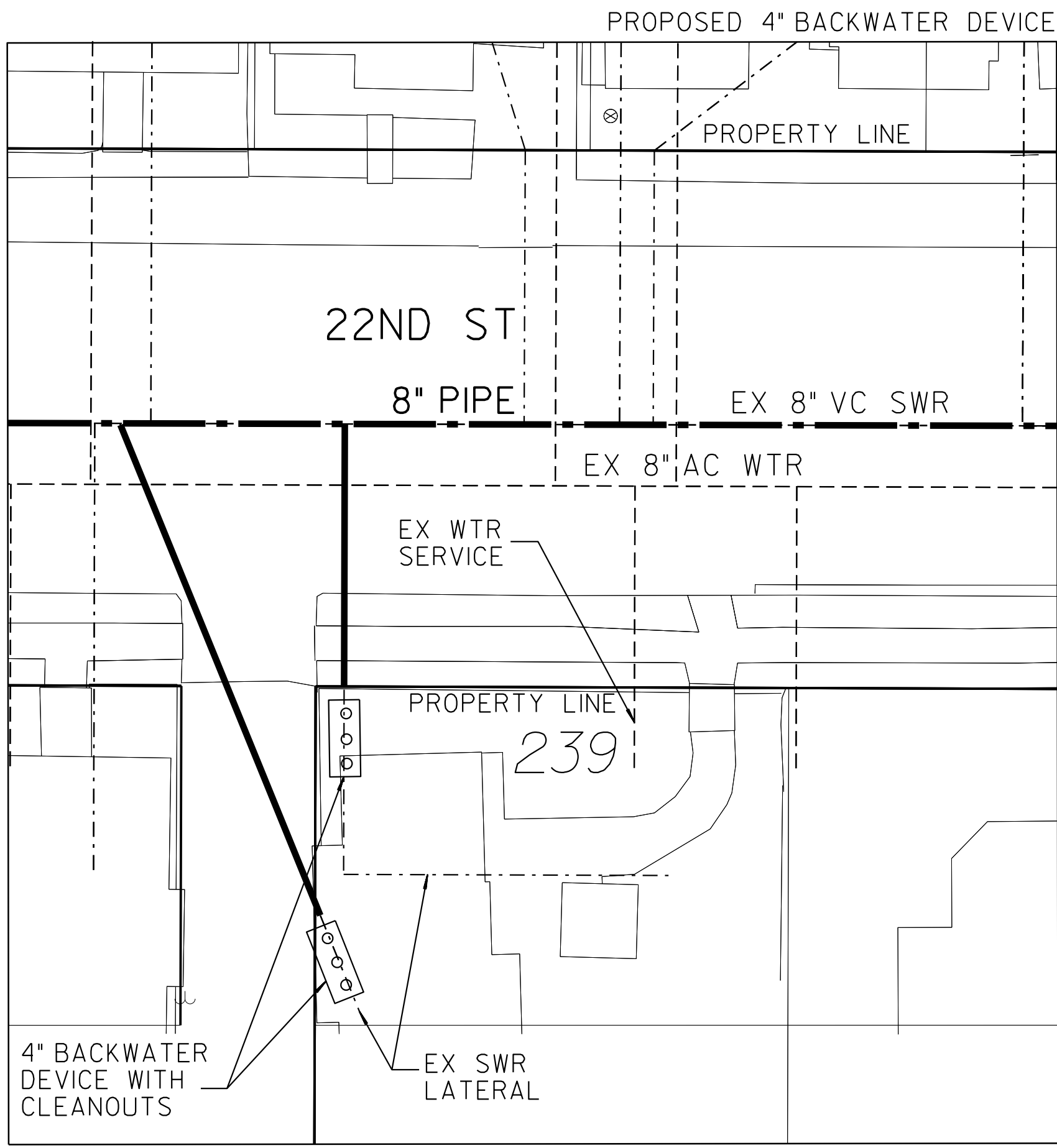
C-50

BACKWATER EXHIBIT

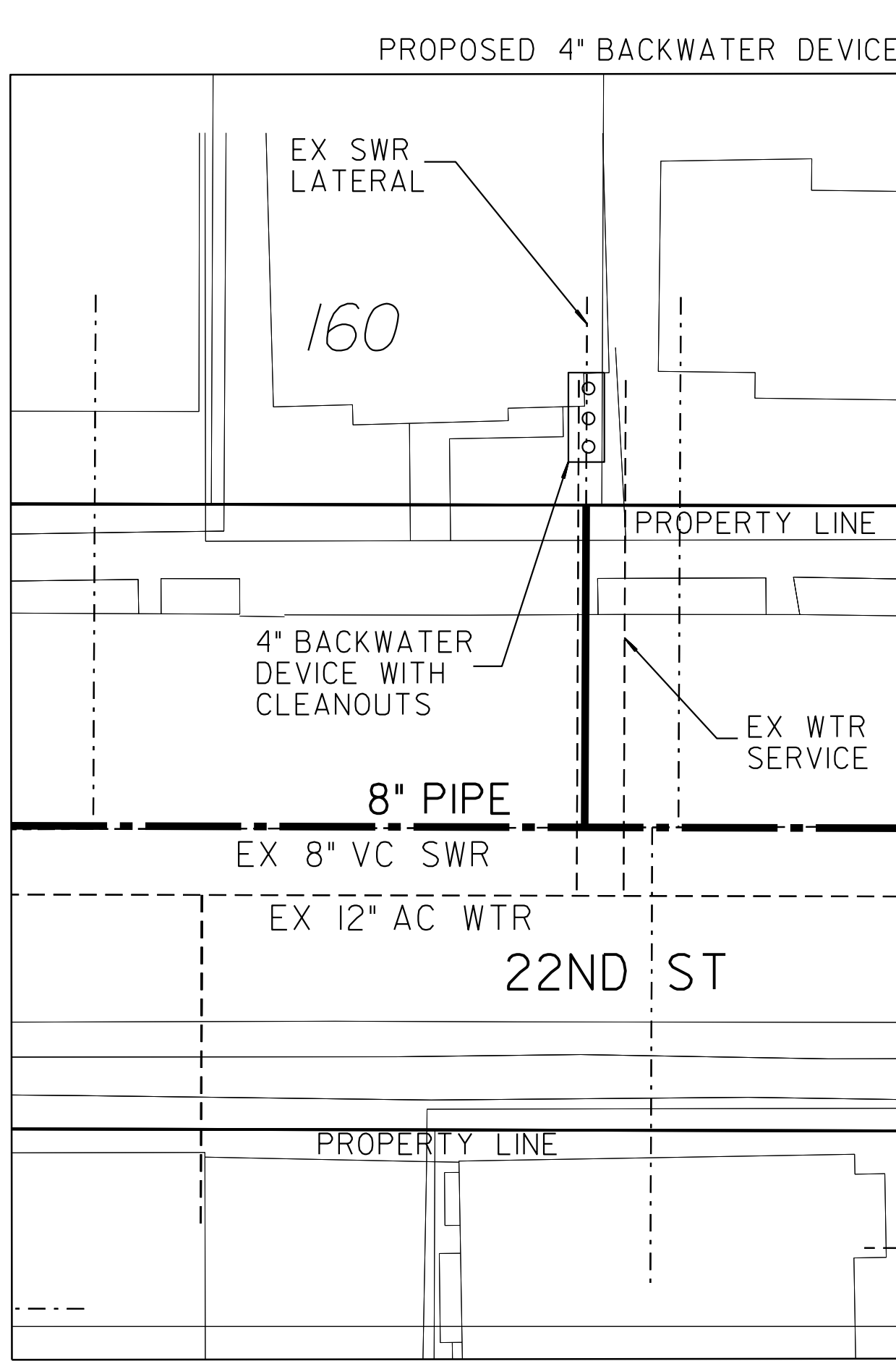
BACKWATER DEVICE EXHIBIT



265 22ND STREET
SAN DIEGO, CA 92102



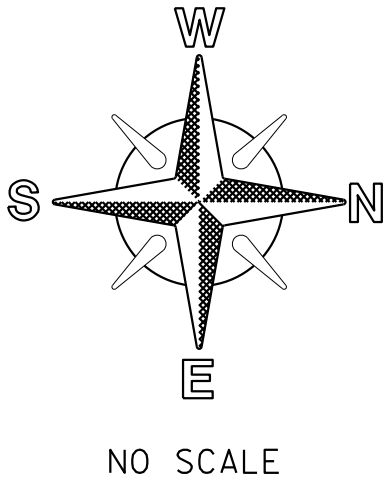
239 22ND STREET
SAN DIEGO, CA 92102



160 22ND STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○ ○ ○
PROP SWR MAIN	— — —
PROP SWR LATERAL	—————
PROPERTY LINE	—————

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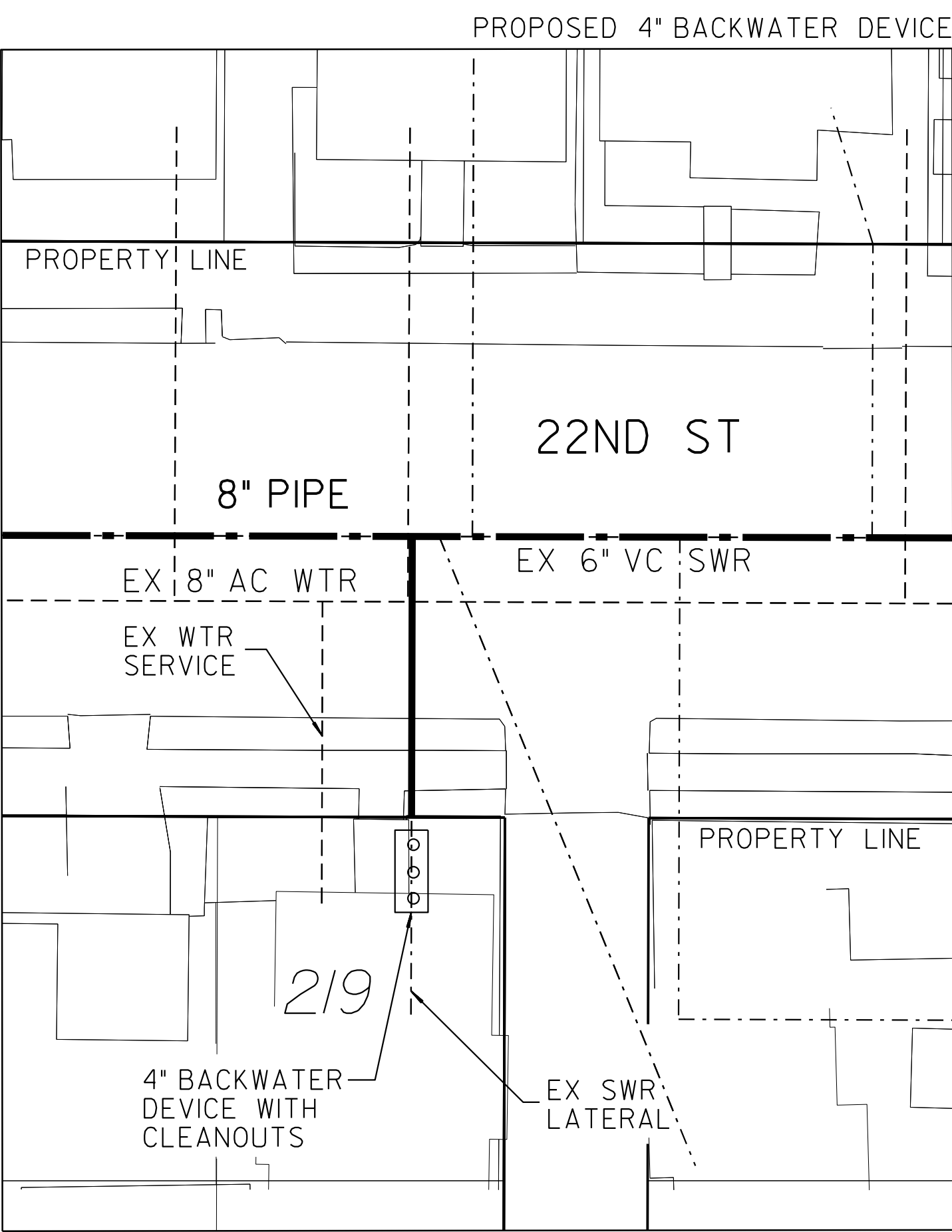
NO SCALE

C-51			
SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 53 OF 56 SHEETS		WATER WBS B-15070	SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS8403 RCE#	SUBMITTED BY ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-53-D	

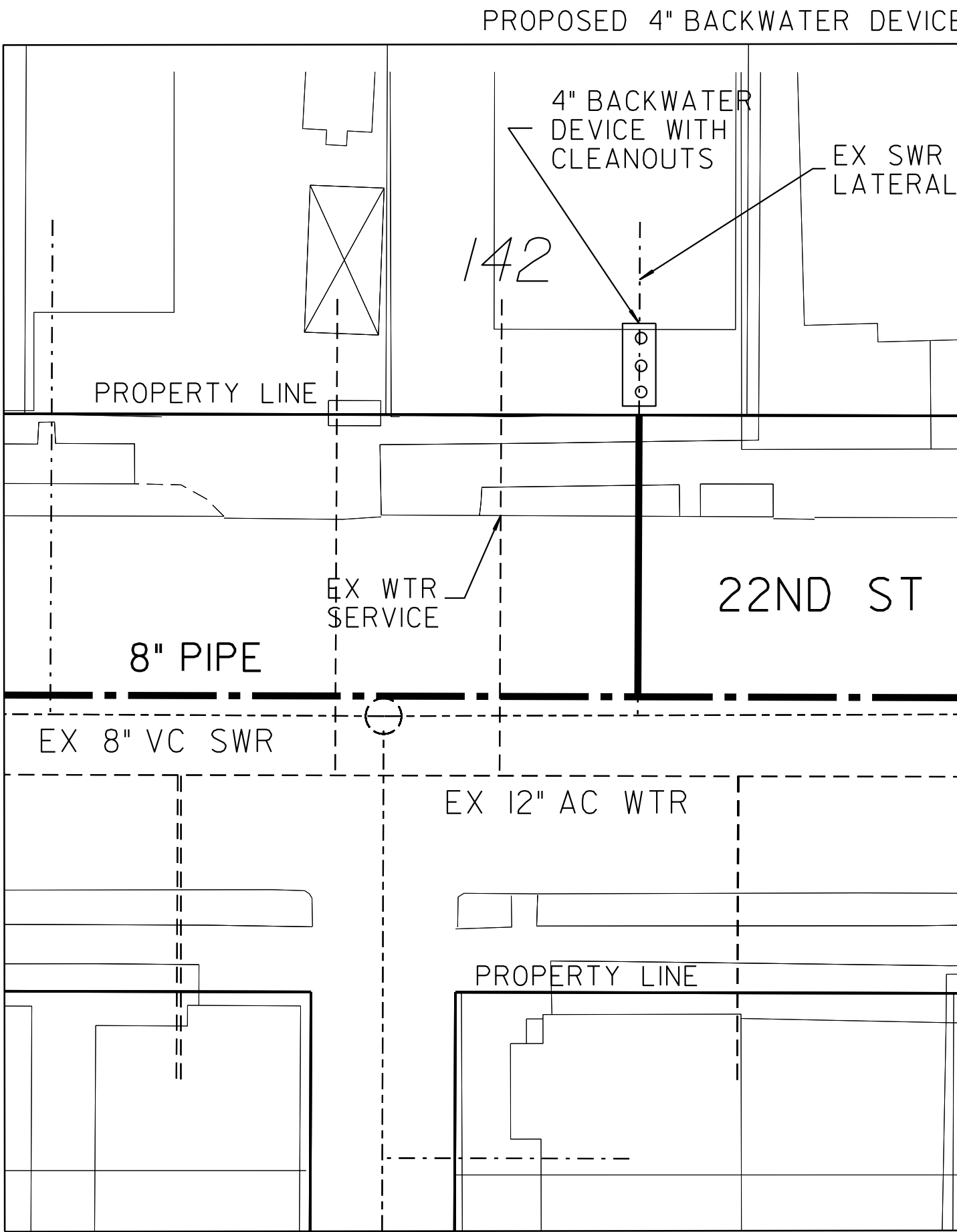
100% DESIGN

BACKWATER EXHIBIT

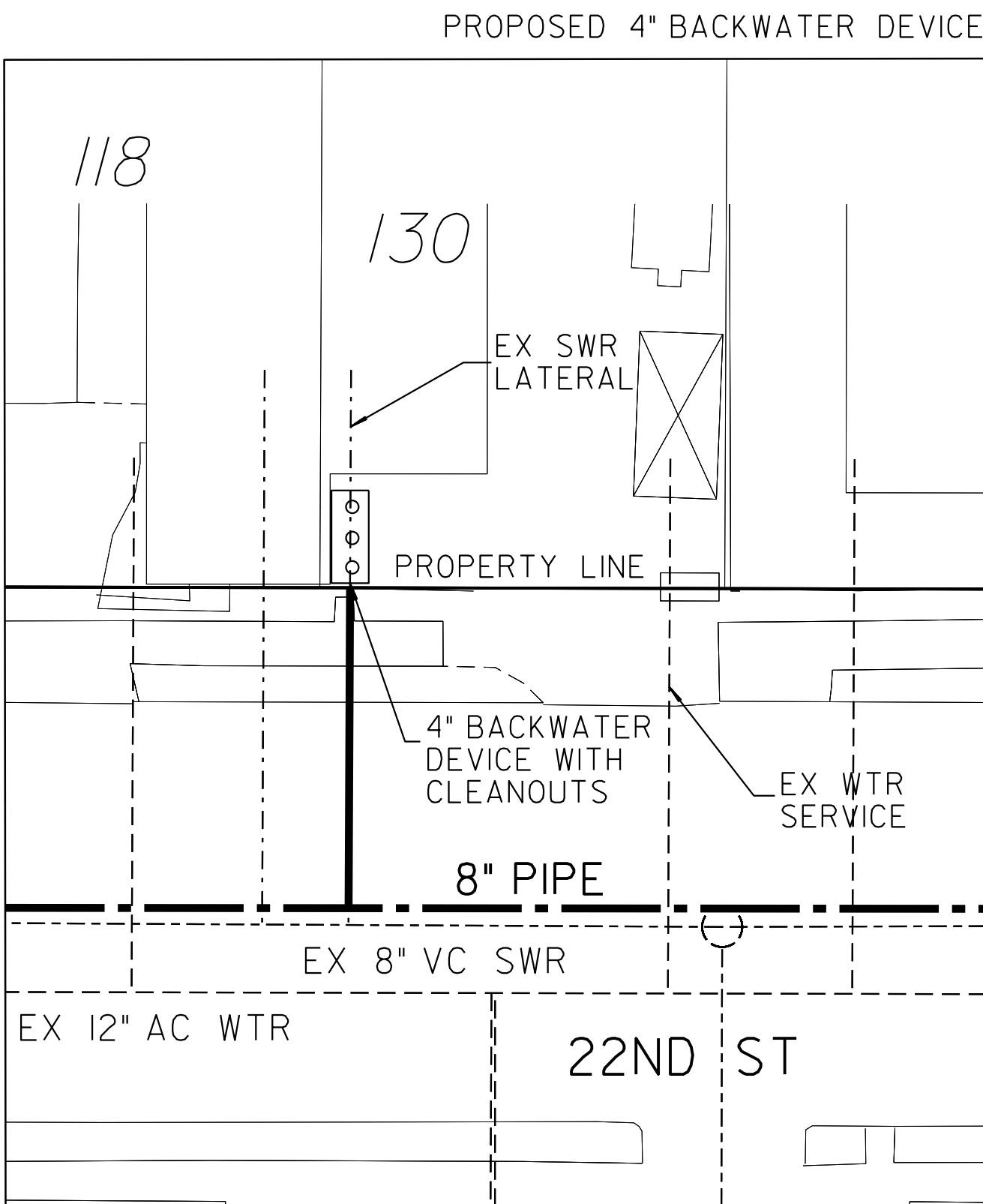
BACKWATER DEVICE EXHIBIT



219 22ND STREET
SAN DIEGO, CA 92102



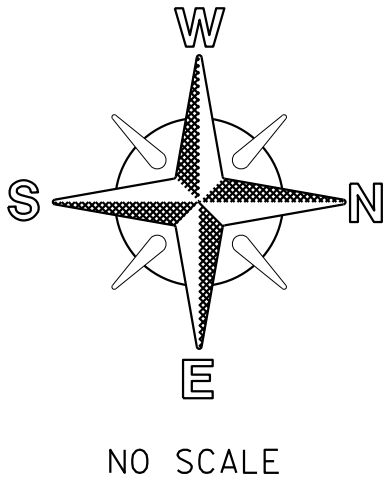
142 22ND STREET
SAN DIEGO, CA 92102



130 22ND STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○ ○ ○
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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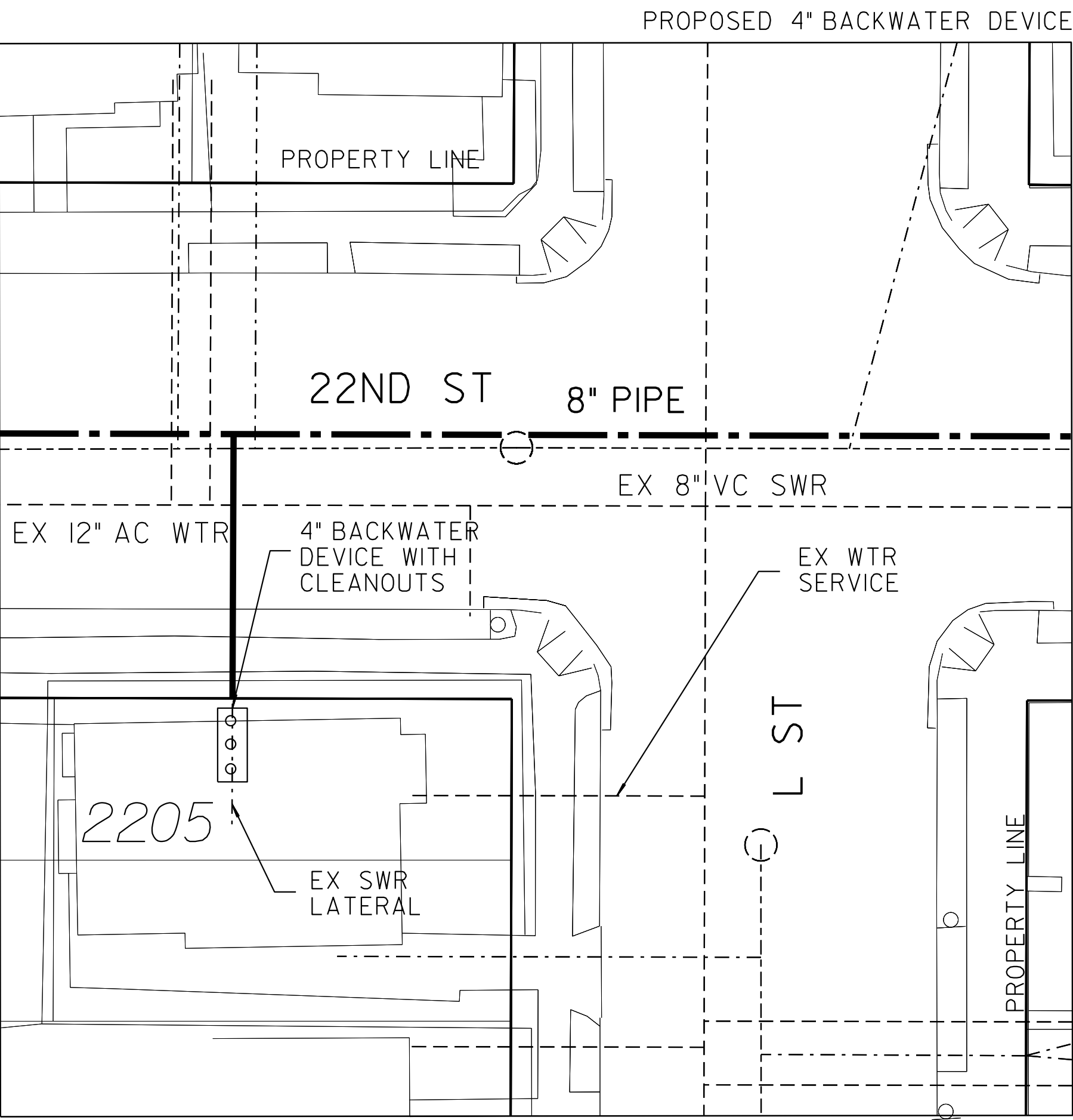


C-52				SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 54 OF 56 SHEETS				WATER WBS	B-15070		
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME				SEWER WBS	B-00394		
DATE				SUBMITTED BY	ELHAM LOTFI PROJECT MANAGER		
CS9403 RCE#				CHECKED BY	BAREAZ PIROMARI PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED	194-1725, 198-1725 CCS27 COORDINATE		
ORIGINAL	BP/DC				1834-6285, 1838-6285 CCS83 COORDINATE		
CONTRACTOR				DATE STARTED	41208-54-D		
INSPECTOR				DATE COMPLETED			

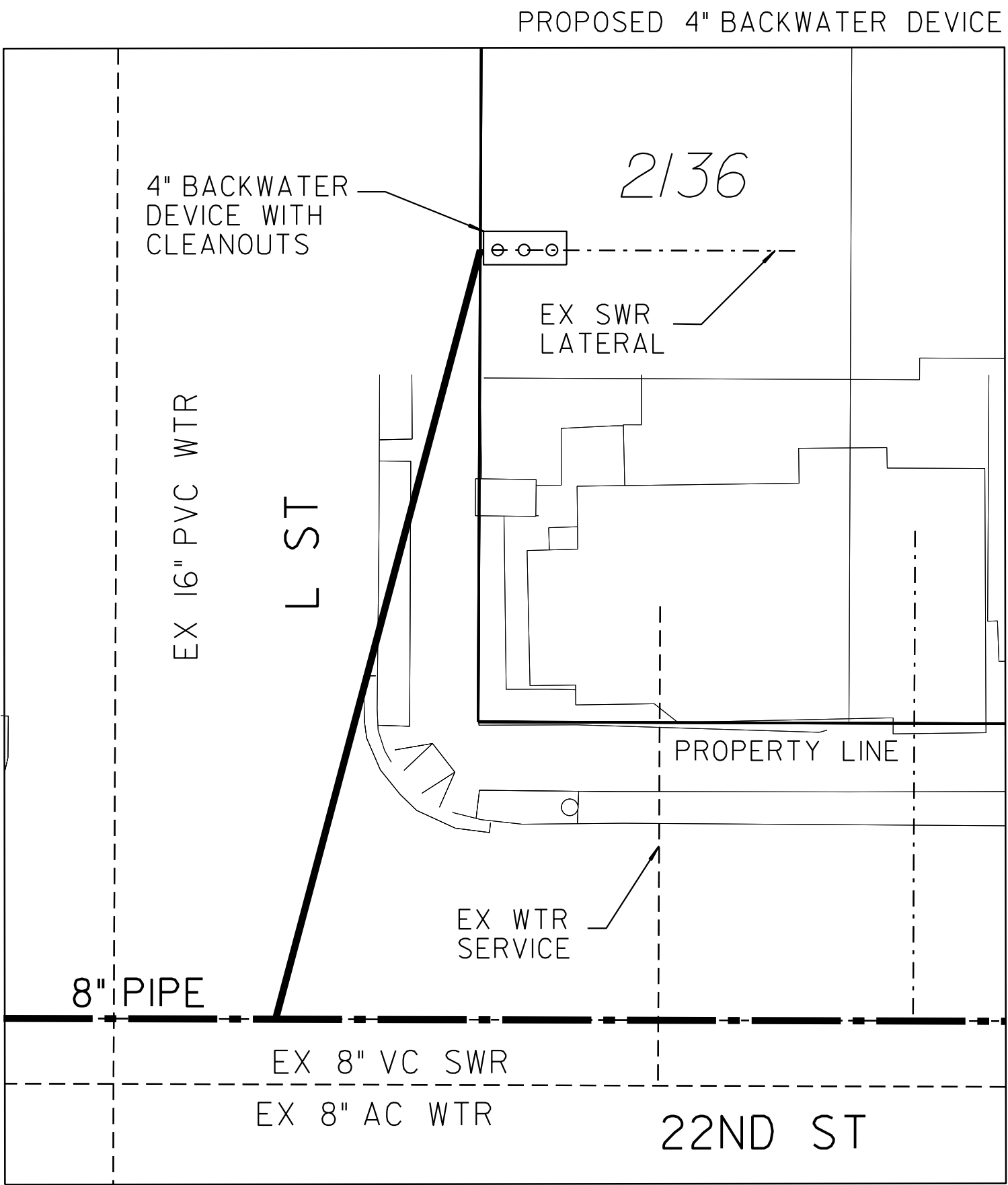
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BACKWATER EXHIBIT

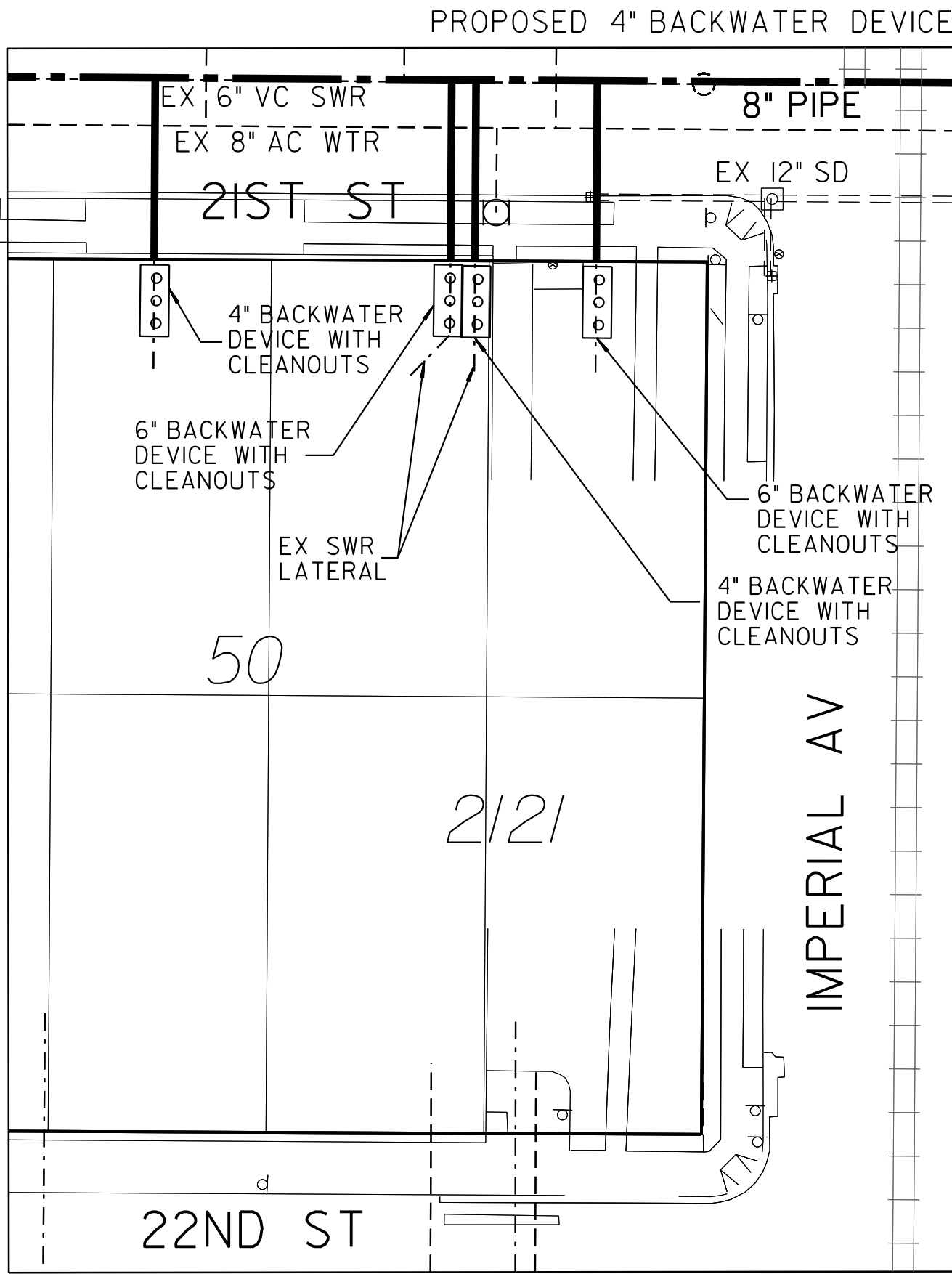
BACKWATER DEVICE EXHIBIT



2205 L STREET
SAN DIEGO, CA 92102



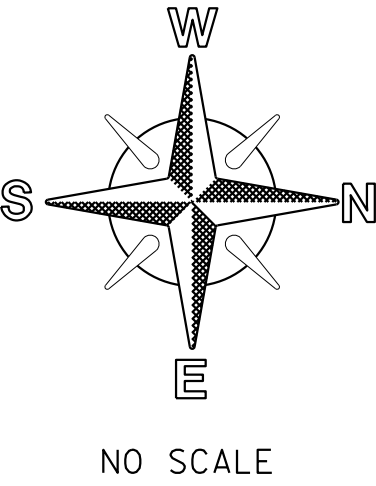
2136 L STREET
SAN DIEGO, CA 92102



50 22ND STREET
SAN DIEGO, CA 92102

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	○ ○ ○
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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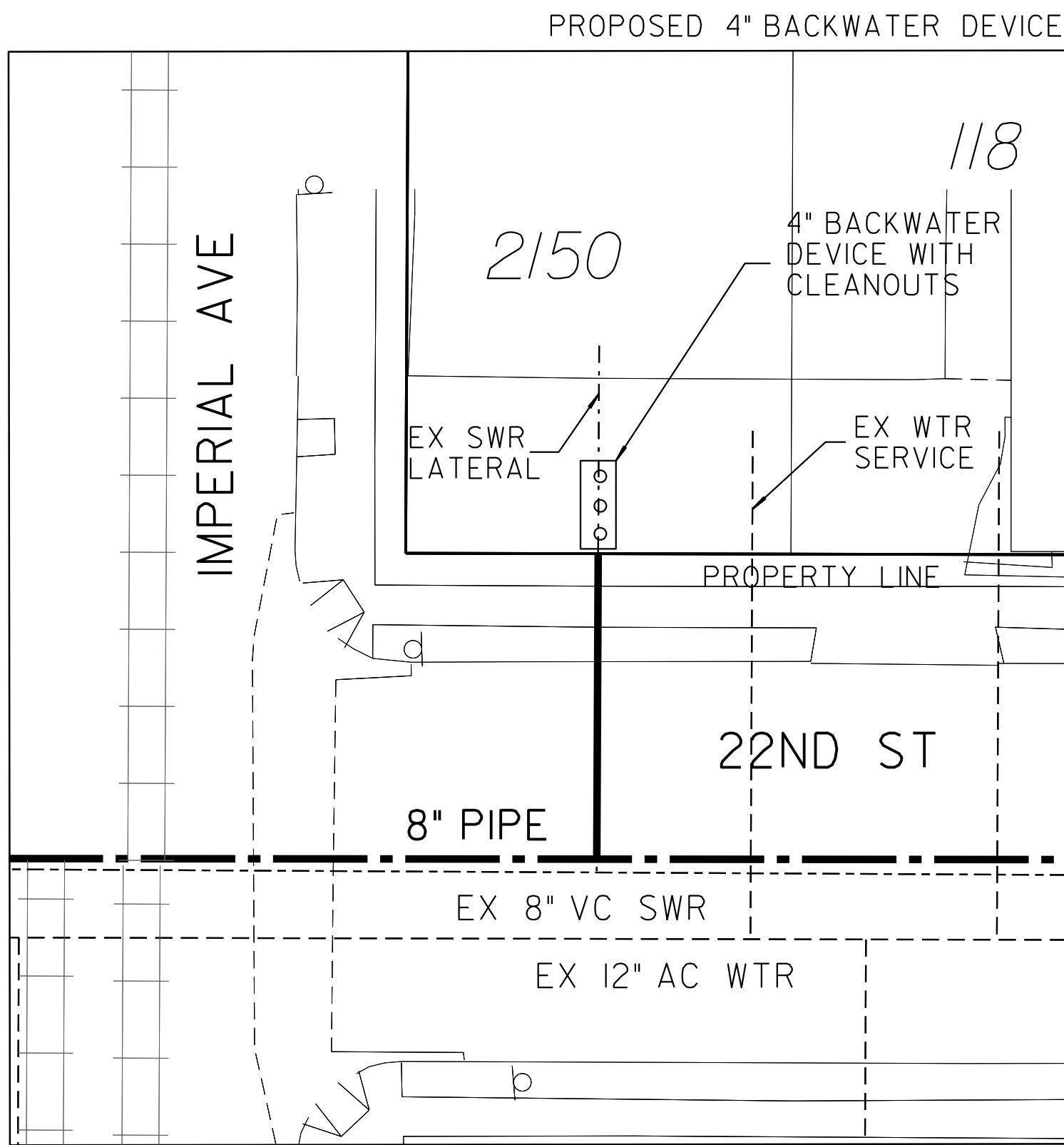
NO SCALE

C-53		SEWER & AC WATER GROUP 793 BACKWATER EXHIBIT	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 55 OF 56 SHEETS		WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION		BY	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL		BP/DC	194-1725, 198-1725 CCS27 COORDINATE
			1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR		DATE STARTED	41208-55-D
INSPECTOR		DATE COMPLETED	

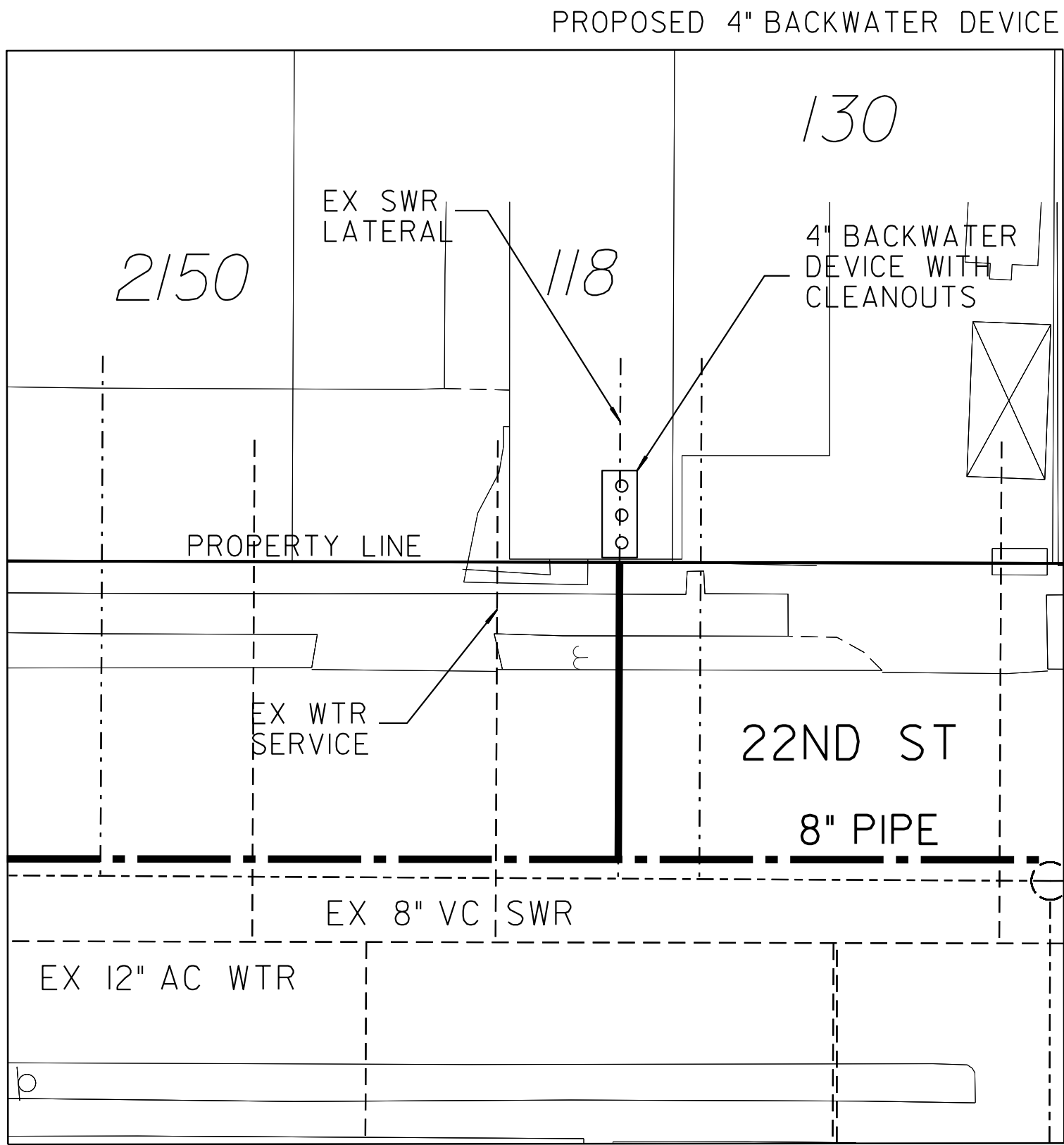
100% DESIGN

BACKWATER EXHIBIT

BACKWATER DEVICE EXHIBIT



2150 IMPERIAL AVE
SAN DIEGO, CA 92102

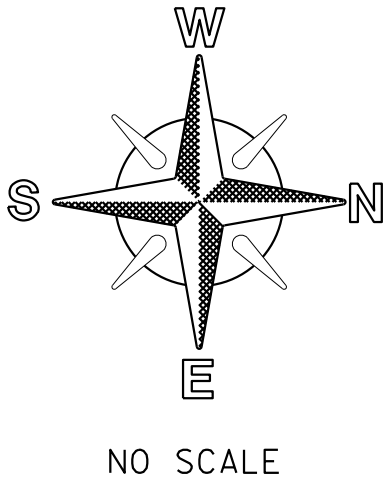


118 22ND STREET
SAN DIEGO, CA 92102

C-54

LEGEND	
PROP BACKWATER DEVICE WITH CLEANOUTS	ooo
PROP SWR MAIN	---
PROP SWR LATERAL	---
PROPERTY LINE	---

- NOTE:
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SEWER & AC WATER GROUP 793			
BACKWATER EXHIBIT			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 56 OF 56 SHEETS		WATER WBS B-15070	SEWER WBS B-00394
APPROVED: FOR CITY ENGINEER SHERLA BOSE PRINT DGE NAME		DATE CS9403 RCE#	SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	BP/DC		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		194-1725, 198-1725 CCS27 COORDINATE	
		1834-6285, 1838-6285 CCS83 COORDINATE	
		41208-56-D	

100% DESIGN

BACKWATER EXHIBIT

MTS STANDARD CONSTRUCTION NOTES

MTS STANDARD CONSTRUCTION NOTES

1. A RIGHT OF ENTRY (ROE) PERMIT IS NECESSARY WHEN ENTERING MTS / SAN DIEGO AND ARIZONA EASTERN (SD&AE) RIGHT-OF-WAY (MTS R/W), INCLUDING AIRSPACE, FOR ANY PURPOSE. A ROE PERMIT IS ALSO REQUIRED WHEN WORKING IN PUBLIC RIGHT-OF-WAY OCCUPIED BY MTS / SD&AE FACILITIES. INFORMATION TO APPLY FOR ROE CAN BE OBTAINED FROM MTS S WEBSITE AT: HTTP://WWW.SDMTS.COM/BUSINESS/PERMITS.ASP OR CONTACT MTS RIGHT OF WAY SERVICES AT TEL. (619) 557-4501. APPLICANT/CONTRACTOR IS REFERRED TO AS THE PERMITTEE .
2. CERTIFICATE OF INSURANCE FROM YOUR INSURANCE COMPANY FOR GENERAL LIABILITY, AUTOMOBILE LIABILITY, POLLUTION LIABILITY (IF APPLICABLE), PROFESSIONAL LIABILITY (IF APPLICABLE), AND WORKMAN'S COMPENSATION MUST BE SUBMITTED AND APPROVED BY MTS BEFORE THE PERMIT WILL BE PROCESSED. FULL INSURANCE REQUIREMENT GUIDELINES CAN BE ACCESSED FROM THE MTS WEBSITE NOTED ABOVE.
3. MOST GENERAL LIABILITY INSURANCE POLICIES DO NOT COVER RAILROADS. ANY EXCLUSIONS RELATING TO PERFORMANCE OF OPERATIONS WITHIN THE VICINITY OF ANY RAILROAD, BRIDGE, TRESTLE, TRACK, ROADBED, TUNNEL, UNDERPASS, OR CROSSING MUST BE DELETED FROM ALL POLICIES BY ENDORSEMENT. ADDITIONALLY, A SEPARATE RAILROAD PROTECTIVE LIABILITY POLICY WILL MOST LIKELY BE REQUIRED AFTER PROJECT REVIEW AS DEEMED NECESSARY BY MTS.
4. ALL PERSONNEL PERFORMING WORK ON MTS R/W, OR ENTERING MTS R/W SHALL REQUIRE PROPER MTS RAIL SAFETY TRAINING CERTIFICATION PRIOR TO ENTERING MTS R/W. ANY CONTRACTORS OR SUBCONTRACTORS PERFORMING WORK ON BEHALF OF PERMITTEE, SHALL BE DEEMED AS AGENTS OF PERMITTEE AND SHALL REQUIRE SAID TRAINING AS WELL. FOR TRAINING INFORMATION, EMAIL RWST@SDMTS.COM. TRAINING CERTIFICATION IS VALID FOR ONE YEAR AND IS CONFINED TO MTS/SD&AE FACILITIES ONLY.
5. PERMITTEE SHALL PROVIDE MTS WITH AN APPROVED SET OF TRAFFIC CONTROL PLANS THAT CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND COMPLY IN PARTICULAR WITH PART 8 TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSINGS .
6. IF PROJECT INVOLVES CASING SLEEVES UNDER RAILROAD TRACKS AND ACROSS MTS R/W, PERMITTEE SHALL ADHERE TO MTS JACK AND BORE DESIGN CRITERIA AND CONSTRUCTION NOTES.
7. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH MTS/SDTI PRIOR TO WORK COMMENCING WITHIN MTS R/W. A WRITTEN NOTICE OF PLANNED START OF WORK MUST BE SUBMITTED TO MTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO WORK STARTING IN MTS R/W. ALL WORK WILL BE STOPPED AND PERMITTEE WILL NOT BE ALLOWED IN MTS R/W WITHOUT PROPER NOTIFICATION.
8. PERMITTEE S ON-SITE SUPERVISION SHALL RETAIN/MAINTAIN A FULLY EXECUTED COPY OF THE RIGHT OF ENTRY PERMIT AT ALL TIMES WHILE ON MTS R/W.
9. SDTI RAIL FLAGGING WILL BE REQUIRED ANYTIME WORK IS WITHIN FIFTEEN (15) FEET OF ANY OPERABLE TRACK INCLUDING AIRSPACE OR AS DEEMED NECESSARY BY MTS. A SDTI FLAGPERSON / RIGHT-OF-WAY WORK REQUEST FORM MUST BE SUBMITTED TO SDTI A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO ANTICIPATED WORK. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
10. A SDTI TRACTION POWER SHUTDOWN MAY BE NECESSARY FOR THE WORK ZONE TO PROTECT AND MAINTAIN THE REQUIRED TEN (10) FOOT CLEARANCE FROM TROLLEY OVERHEAD HIGH VOLTAGE CATENARY SYSTEM (OCS). PERMITTEE SHALL SUBMIT A SDTI RED TAG/ TRACTION POWER REMOVAL REQUEST FORM TO SDTI AT LEAST THREE (3) BUSINESS DAYS PRIOR TO THE START OF WORK. POWER SHUTDOWNS SHALL ONLY BE ALLOWED DURING REV 052016 NON-OPERATING TROLLEY HOURS. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
11. PERMITTEE SHALL CONTACT AND SCHEDULE DIG-ALERT AND CABLE PIPE AND LEAK (CPL) PRIOR TO ANY EXCAVATION IN MTS R/W. PERMITTEE SHALL NOTIFY MTS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE SCHEDULED UTILITY MARKOUT REQUEST AND SHALL SUBMIT A SDTI FLAGPERSON / RIGHT-OF-WAY WORK REQUEST FORM. SDTI PERSONNEL SHALL ACCOMPANY CPL FOR ANY MARKOUT OF TROLLEY FACILITIES.
12. PERMITTEE SHALL ADHERE TO CONSTRUCTION AND SAFETY STANDARDS REQUIRED BY MTS OF THEIR CONTRACTORS WHEN WORKING WITHIN MTS R/W.
13. PERMITTEE SHALL PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC) AND CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (CAL-OSHA) REGULATIONS, MTS LRT DESIGN CRITERIA, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) STANDARD SPECIFICATIONS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) GUIDELINES AND MTS, SDTI AND SD&IV OPERATIONS AND SAFETY POLICIES.
14. PERMITTEE AGREES THAT NO WORK BY HIMSELF OR HIS AUTHORIZED AGENT WILL INTERFERE WITH RAILROAD/TROLLEY OPERATIONS.
15. PERMITTEE AGREES TO COORDINATE ON A DAILY BASIS A REASONABLE ACCESS TO ALL MTS/SD&AE FACILITIES WITH CONTRACT OPERATORS, SDTI, AND SD&IV. SDTI TROLLEY OPERATIONS ARE GENERALLY FROM THE HOURS OF 4:00 A.M. TO 2:00 A.M. THE FOLLOWING DAY. SD&IV FREIGHT TRAINS NORMAL OPERATIONS ARE DURING NON-TROLLEY HOURS.
16. PERMITTEE SHALL MAINTAIN SAFE PEDESTRIAN ACCESS TO ALL TROLLEY PLATFORMS AND BUS STOPS AT ALL TIMES. A MINIMUM FIVE (5) FOOT WIDE ACCESSIBLE PEDESTRIAN PATH THROUGH THE CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES. THE CONSTRUCTION BOUNDARY SHALL CONSIST OF A TOP AND BOTTOM RAIL CONSTRUCTED OF PLASTIC PIPE, OSHA PLASTIC MESH, OR APPROVED EQUAL. YELLOW CAUTION TAPE IS NOT ACCEPTABLE.
17. PERMITTEE SHALL NOT STORE EQUIPMENT, TOOLS, AND MATERIALS WITHIN FIFTEEN (15) FEET FROM TROLLEY OPERABLE TRACK AND WITHIN TWENTY-FIVE (25) FEET FROM FREIGHT TRACK OPERATIONS.
18. PERMITTEE SHALL NOT USE OR STORE HAZARDOUS SUBSTANCES, AS DEFINED BY THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT, AS AMENDED (CERCLA) OR PETROLEUM OR OIL AS DEFINED BY APPLICABLE ENVIRONMENTAL LAWS ON MTS R/W.
19. NO VEHICULAR CROSSING OVER TRACKS SHALL BE INSTALLED OR USED BY PERMITTEE WITHOUT PRIOR WRITTEN PERMISSION OF RAILROAD.
20. A WRITTEN NOTICE SHALL BE SUBMITTED TO MTS ONE (1) BUSINESS DAY AFTER WORK IS COMPLETED WITHIN MTS R/W. ANY ADDITIONAL WORK REQUIRED TO REPLACE OR REPAIR THE RAILROAD FACILITIES IN GOOD WORKING ORDER WILL BE THE PERMITTEE S RESPONSIBILITY PRIOR TO RELIEF FROM MAINTENANCE WITHIN THE PERMIT AREA.
21. PERMITTEE SHALL REMOVE ALL OF PERMITTEE S TOOLS, EQUIPMENT, AND MATERIALS FROM RAILROAD PREMISES PROMPTLY UPON COMPLETION OF WORK AND SHALL RESTORE ALL FACILITIES, IMPROVEMENTS, LANDSCAPING, ETC., TO THEIR ORIGINAL CONDITION OR AS SHOWN ON PROJECT WORK SITE PLANS.

SECTION XX RAILROAD RELATIONS

XX-1.01 GENERAL

THE TERM "RAILROAD" SHALL MEAN THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM (MTS) AND SAN DIEGO TROLLEY INC. (SDTI) AND/OR SAN DIEGO ARIZONA & EASTERN RAILROAD (SD&AE).

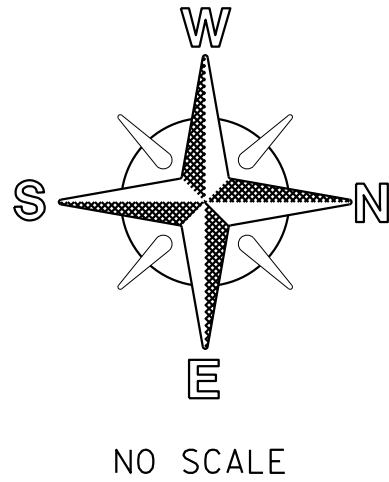
THE CONTRACTOR MUST UNDERSTAND THE CONTRACTOR'S RIGHT TO ENTER RAILROAD'S RIGHT OF WAY IS SUBJECT TO THE ABSOLUTE RIGHT OF RAILROAD TO CAUSE THE CONTRACTOR'S WORK ON RAILROAD'S RIGHT OF WAY TO CEASE IF, IN THE OPINION OF RAILROAD, CONTRACTOR'S ACTIVITIES CREATE A HAZARD TO RAILROAD'S RIGHT OF WAY, EMPLOYEES, AND OPERATIONS.

XX-1.02 RAILROAD RIGHT OF ENTRY REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN A RIGHT OF ENTRY PERMIT FROM THE RAILROAD PRIOR TO ENTERING OR CONSTRUCTING ON PROPERTY OWNED BY THE RAILROAD. THE CONTRACTOR SHALL ABIDE BY THE TERMS OF THE RIGHT OF ENTRY PERMIT. THE TERMS OF THE RIGHT OF ENTRY PERMIT WILL GOVERN IF THERE ARE ANY CONFLICTS WITH THESE CONTRACT SPECIAL PROVISIONS. INFORMATION ON OBTAINING A RIGHT OF ENTRY PERMIT CAN BE OBTAINED AT HTTP://WWW.SDMTS.COM/BUSINESS-CENTER-PERMITS/RIGHT-ENTRY OR CONTACTING MTS RIGHT OF WAY SERVICES TEL (619) 557-4501 EMAIL: MTSROW@SDMTS.COM.

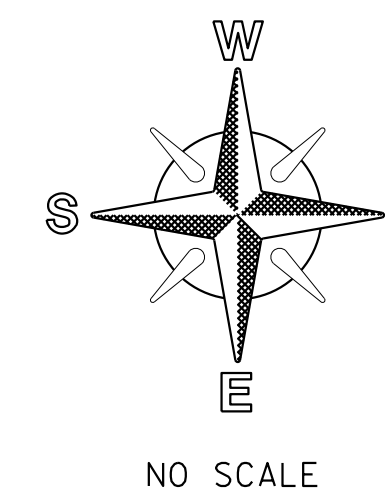
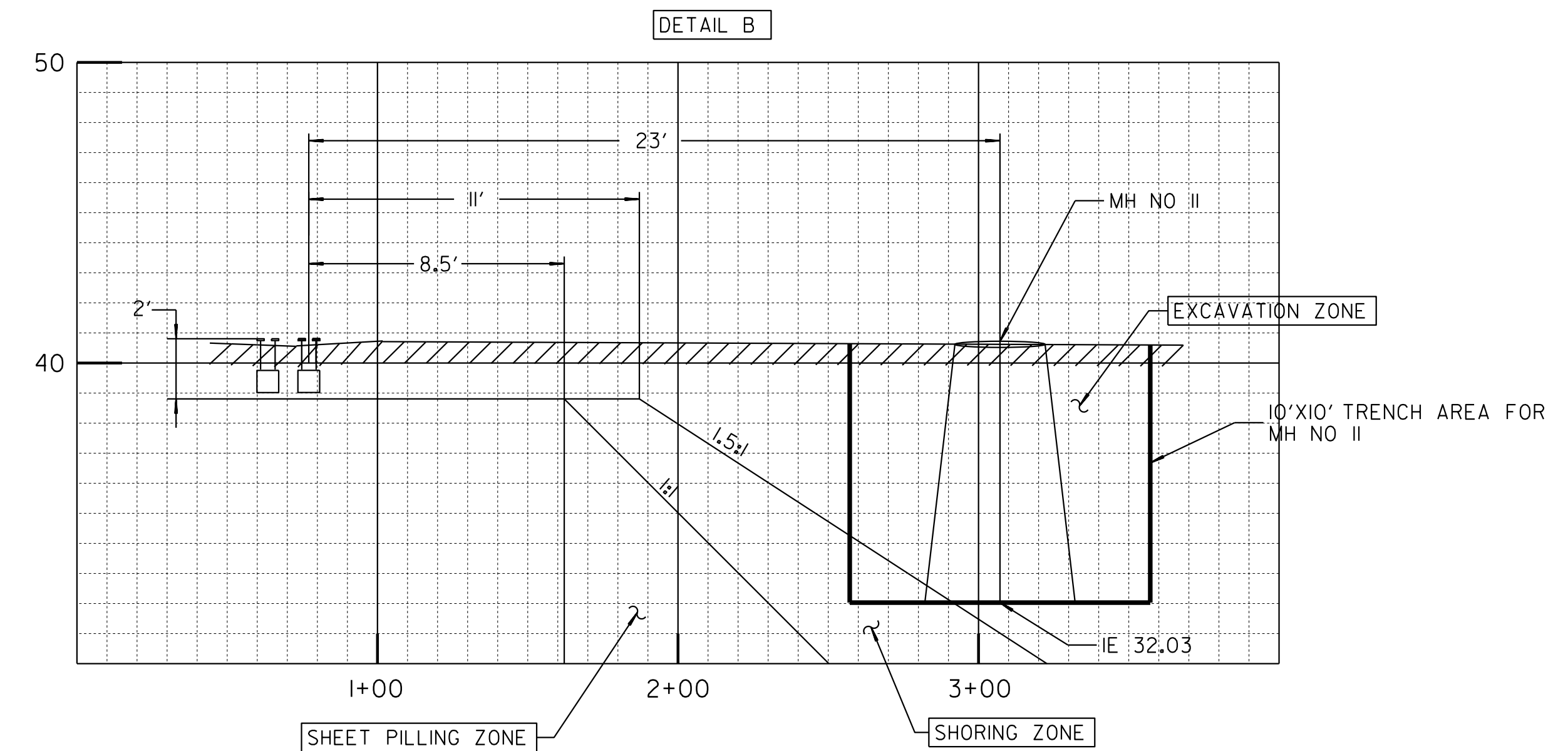
C-54

SEWER & AC WATER GROUP 793
MTS STANDARD CONSTRUCTION NOTES



CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 56 OF 57 SHEETS					WATER WBS B-15070 SEWER WBS B-00394	
APPROVED: FOR CITY ENGINEER _____ DATE _____ SHEILA BOSE _____ RCE# C59403 PRINT DCE NAME _____					SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER	
DESCRIPTION		BY	APPROVED	DATE	FILMED	CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER
ORIGINAL		BP/DC				194-1725, 198-1725 CCS27 COORDINATE
						1834-6285, 1838-6285 CCS83 COORDINATE
CONTRACTOR _____		DATE STARTED _____		41208-57-D		
INSPECTOR _____		DATE COMPLETED _____				

EXCAVATION ZONE DETAIL



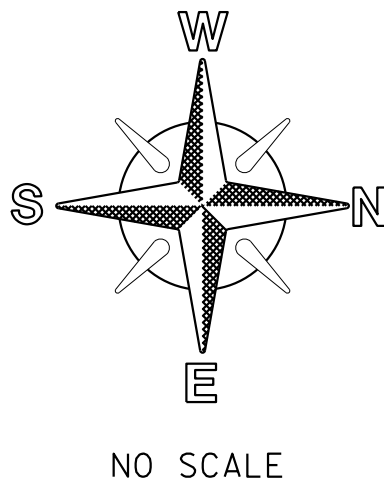
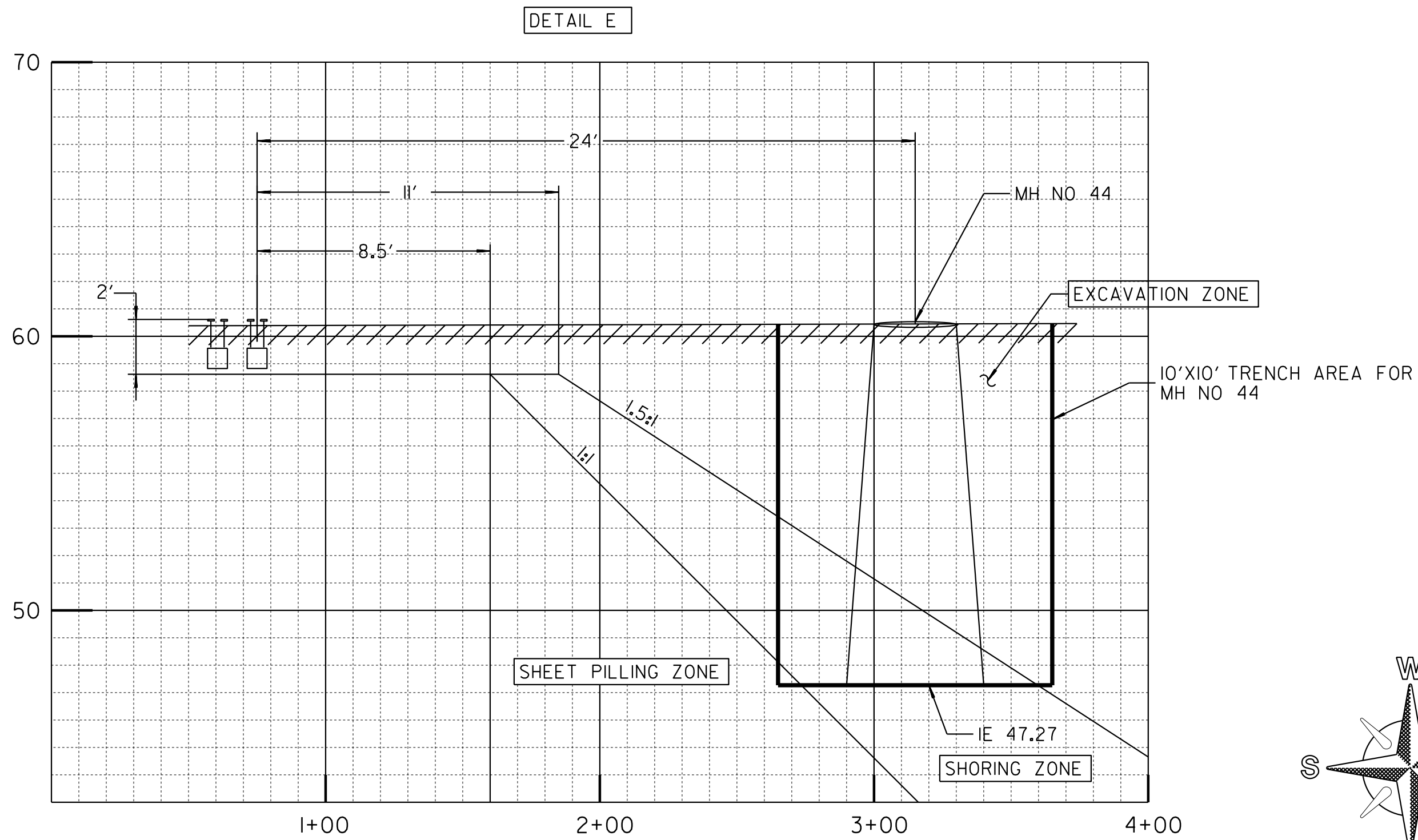
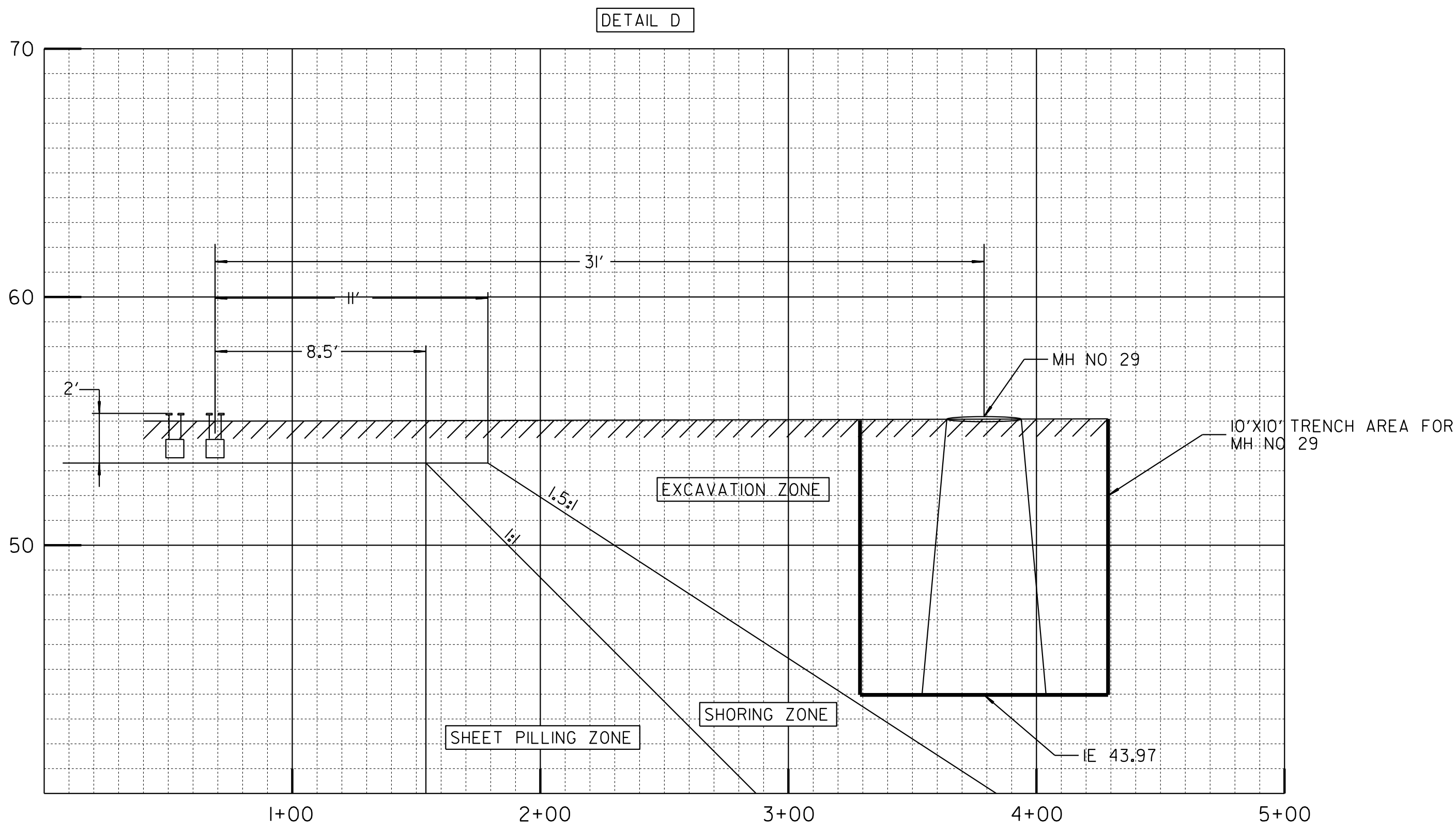
SEWER & AC WATER GROUP 793

EXCAVATION ZONE DETAIL

		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 58 OF 59 SHEETS					WATER WBS B-15070 SEWER WBS B-00394	
		APPROVED FOR CITY ENGINEER SHEILA BOSE PRINT DCE NAME RCE# C59403					SUBMITTED BY ELHAM LOTFI PROJECT MANAGER CHECKED BY BAREAZ PIROMARI PROJECT ENGINEER	
		DESCRIPTION	BY	APPROVED	DATE	FILMED		
		ORIGINAL	BP/DC				194-1725, 198-1725 CCS27 COORDINATE	
							1834-6285, 1838-6285 CCS83 COORDINATE	
CONTRACTOR		DATE STARTED					41208-58-D	
INSPECTOR		DATE COMPLETED						

100% DESIGN

EXCAVATION ZONE DETAIL



C-57

SEWER & AC WATER GROUP 793
EXCAVATION ZONE DETAIL

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 59 OF 59 SHEETS		WATER WBS B-15070 SEWER WBS B-00394		
APPROVED: FOR CITY ENGINEER _____ DATE _____ SHEILA ROSE C59403 PRINT DCE NAME _____ RCE# _____		SUBMITTED BY: ELHAM LOTFI PROJECT MANAGER CHECKED BY: BAREAZ PIROMARI PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	BP/DC			
		194-1725, 198-1725 CCS27 COORDINATE		
		1834-6285, 1838-6285 CCS83 COORDINATE		
CONTRACTOR _____		DATE STARTED _____		41208-59-D
INSPECTOR _____		DATE COMPLETED _____		