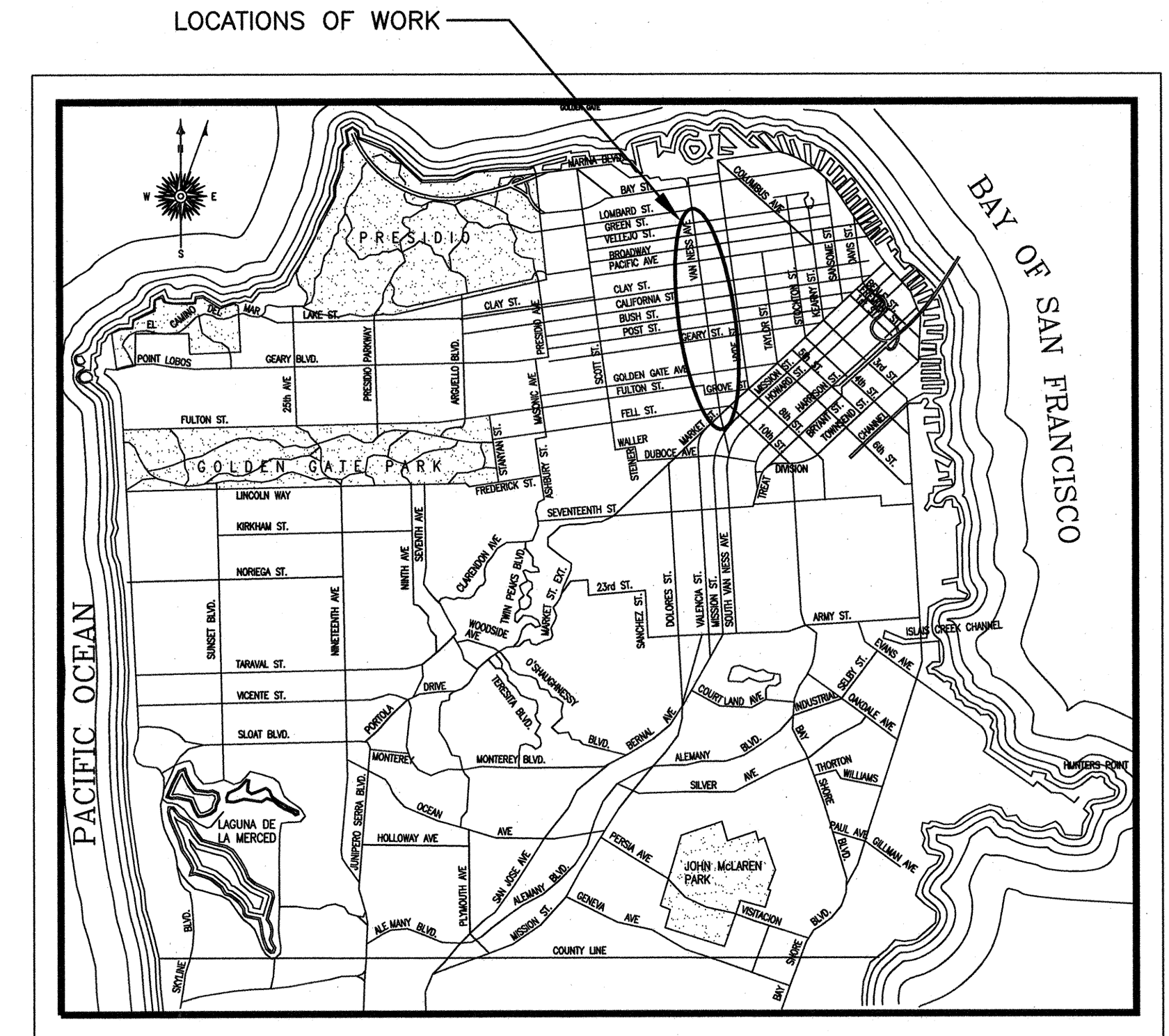


PLAN LIST

PLAN NO.	FILE NO.	DESCRIPTION
MA-00	102,759	AWSS WORK - PLAN LIST AND KEY MAP
MA-01	102,760	AWSS WORK - LEGEND, ABBREVIATIONS AND GENERAL NOTES
MA-02	102,761	AWSS WORK - LOCATIONS OF WORK I
MA-03	102,762	AWSS WORK - LOCATIONS OF WORK II
MA-04	102,763	AWSS WORK - LOCATIONS OF WORK III
MA-05	102,764	AWSS WORK - LOCATION 1 (NOT USED)
MA-06	102,765	AWSS WORK - LOCATION 2 - REMOVAL WORK - PLAN
MA-07	102,766	AWSS WORK - LOCATION 2 - NEW WORK - PLAN
MA-08	102,767	AWSS WORK - LOCATION 3 - REMOVAL AND NEW WORK - PLANS
MA-09	102,768	AWSS WORK - LOCATION 4 (NOT USED)
MA-10	102,769	AWSS WORK - LOCATION 5 - REMOVAL WORK - PLAN
MA-11	102,770	AWSS WORK - LOCATION 5 - NEW WORK - PLAN
MA-12	102,771	AWSS WORK - LOCATION 6 - REMOVAL WORK - PLAN
MA-13	102,772	AWSS WORK - LOCATION 6 - NEW WORK - PLAN
MA-14	102,773	AWSS WORK - LOCATION 7 (NOT USED)
MA-15	102,774	AWSS WORK - LOCATION 8 - REMOVAL AND NEW WORK - PLANS
MA-16	102,775	AWSS WORK - LOCATION 9 - REMOVAL WORK - PLAN
MA-17	102,776	AWSS WORK - LOCATION 9 - NEW WORK - PLAN
MA-18	102,777	AWSS WORK - LOCATION 10 (NOT USED)
MA-19	102,778	AWSS WORK - HYDRANT LATERAL PROFILES I
MA-20	102,779	AWSS WORK - HYDRANT LATERAL PROFILES II
MA-21	102,780	AWSS WORK - DETAILS I
MA-22	102,781	AWSS WORK - DETAILS II
MA-23	102,782	AWSS WORK - LOCATION A - SETTLEMENT MONITORING - NEW WORK - PLAN AND SHEET NOTES
MA-24	102,783	AWSS WORK - LOCATIONS B AND C - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-25	102,784	AWSS WORK - LOCATIONS D AND E - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-26	102,785	AWSS WORK - LOCATIONS F AND G - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-27	102,786	AWSS WORK - LOCATIONS H AND I - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-28	102,787	AWSS WORK - LOCATIONS J AND K - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-29	102,788	AWSS WORK - LOCATIONS L AND M - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-30	102,789	AWSS WORK - LOCATIONS N AND O - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-31	102,790	AWSS WORK - LOCATIONS P AND Q - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-32	102,791	AWSS WORK - LOCATIONS R AND S - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-33	102,792	AWSS WORK - LOCATIONS T AND U - SETTLEMENT MONITORING - NEW WORK - PLANS
MA-34	102,793	AWSS WORK - LOCATION V - SETTLEMENT MONITORING - NEW WORK - PLAN
MA-35	102,794	AWSS WORK - LOCATION W - SETTLEMENT MONITORING - NEW WORK - PLAN

AWSS STANDARD DRAWINGS

DWG NO.	DESCRIPTION
AWSS 1	AWSS STANDARD DRAWING I
AWSS 2	AWSS STANDARD DRAWING II
AWSS 3	AWSS STANDARD DRAWING III
AWSS 4	AWSS STANDARD DRAWING IV
AWSS 5	AWSS STANDARD DRAWING V
AWSS 6	AWSS STANDARD DRAWING VI
AWSS 7	AWSS STANDARD DRAWING VII
AWSS 8	AWSS STANDARD DRAWING VIII
AWSS 9	AWSS STANDARD DRAWING IX
AWSS 10	AWSS STANDARD DRAWING X



KEY MAP

SCALE: NONE

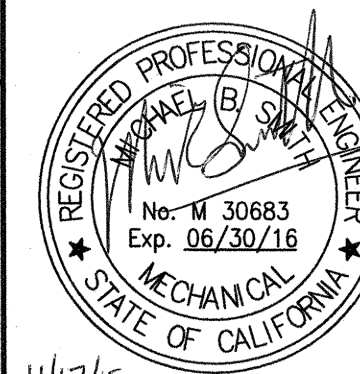
FILE NAME: \\21061_VANNESS_BRT_MISSION_LOMBARD\2_Design\Working_Drawings\ENR\AWSS\Current\21061_Ma-00.dwg

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REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC. USED

GATE BOOK PAGES
NO.



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING	
SECTION MANAGER 11/18/15	DRAWN AH/M MARTIN 11/2015
DEPUTY DIVISION MANAGER	DESIGNED M SMITH 11/2015
DIVISION MANAGER DE 11/20/15	CHECKED M CHEE 11/2015
NO.	DATE
DESCRIPTION	
BY	
APPRO'D	
REVISIONS	

SFMTA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK PLAN LIST AND KEY MAP	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE NONE	DATE 11/2015
PLAN NO. MA-00	REVISION NO. 0
DRAWING/FILE NO. 102,759	

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



SDPW JOB ORDER NO. 21061

AWSS GENERAL NOTES

- IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE, SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
- AT THE TIME THE CONTRACT IS AWARDED, THE CONTRACTOR SHALL POSSESS A CLASS A, GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- SINGLE LINE DIAGRAMS ARE PIPE CENTERLINES. MAXIMUM DEFLECTION ALLOWED AT EACH JOINT IS ONE (1) DEGREE UNLESS OTHERWISE SPECIFIED.
- HYDRANT VALVE SHALL BE AS CLOSE TO MAIN AS POSSIBLE.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF THE EXISTING AWSS FACILITIES IN THE FIELD AND SHALL ACCORDINGLY ADJUST THE LOCATION AND DEPTH OF THE AWSS FACILITIES TO BE INSTALLED FOR THE REQUIRED CONNECTIONS.
- THE MINIMUM CLEARANCE BETWEEN THE AWSS PIPE, FITTING OR APPURTENANCE AS THE CASE MAY BE, AND OTHER FACILITIES SHALL BE NOT LESS THAN 12", UNLESS OTHERWISE SPECIFIED, OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL SUPPLY ALL MATERIALS UNLESS OTHERWISE SPECIFIED.
- ALL NEW MATERIALS TO BE FURNISHED BY THE CONTRACTOR SHALL CONFORM TO REQUIREMENTS OF THE CITY AND COUNTY OF SAN FRANCISCO AWSS SPECS AND AWSS STANDARD DRAWINGS, UNLESS OTHERWISE INDICATED. DOCUMENTS ARE AVAILABLE UPON REQUEST TO CITY REPRESENTATIVE.
- THE CONTRACTOR SHALL FURNISH ALL FLANGE GASKETS, STAINLESS STEEL BOLTS, NUTS AND WASHERS; MJ GASKETS, GLANDS BOLTS AND NUTS.
- THE CONTRACTOR SHALL WELD DI COLLAR STOPS TO (N) PIPE.
- CONTRACTOR SHALL REMOVE (E) THRUST BLOCKS AND TIE RODS IN ORDER TO CONNECT TO (E) LINES, AS DIRECTED BY THE CITY REPRESENTATIVE.
- CONTRACTOR SHALL SUPPORT SEWERS AND SEWER FORCE MAINS, AND OTHER GOVERNMENTAL UTILITY FACILITIES AS INCIDENTAL WORK.
- REFER TO RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING AND NEW UTILITY AT THE LOCATION(S) OF WORK.
- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) TO REQUEST THAT MEMBER COMPANIES LOCATE AND MARK THEIR UNDERGROUND SERVICE LINES AND EQUIPMENT AT LEAST 48 HRS PRIOR TO TRENCH EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR RELATED FEES FOR THEIR COORDINATION EFFORT INCLUDING BUT NOT LIMITED TO FEES REQUIRED BY MEMBER COMPANIES. CONTRACTOR SHALL PAY FOR DPW STREET OPENING PERMIT PRIOR TO EXCAVATION.

AWSS FACILITIES MONITORING NOTES (WHERE SHOWN ON THE DWGS)

- FOR CONSTRUCTION OF AWSS SETTLEMENT MONITORING AND REFERENCE POINTS, SEE SFWD/CDD'S SPECIFICATION SECTION 01 41 28 - PROTECTION OF EXISTING WATER AND AWSS FACILITIES, FOR STANDARD DRAWINGS AND CRITERIA FOR SURVEY MONITORING AND SUPPORTING THE (E) AWSS FACILITIES ADJACENT TO PROPOSED EXCAVATION WORK.
- LOCATION SHOWN FOR AWSS SETTLEMENT REFERENCE AND MONITORING POINTS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD.
- THE CONTRACTOR SHALL REMOVE SETTLEMENT REFERENCE POINT MONITORING ASSEMBLIES AFTER SURVEYS ARE COMPLETED, AND RESTORE THE STREET PAVEMENT AND CONCRETE BASE TO ITS ORIGINAL CONDITION.
- MONITORING MANHOLE ASSEMBLIES SHALL MEET H-20 LOAD RATING.

SPECIAL INSTRUCTIONS

THE CONTRACTOR SHALL PERFORM PRELIMINARY EXCAVATIONS OF ALL ROUTES OF THE NEW AWSS WORK. THE EXCAVATIONS SHALL BE PERFORMED AT A MINIMUM OF EVERY 10 FEET WITH A WRITTEN REPORT SUMMARIZING ANY CONFLICTS AT EACH LOCATION. THIS REPORT SHALL BE SUBMITTED TO THE CITY REPRESENTATIVE FOR APPROVAL PRIOR TO BEGINNING TRENCH EXCAVATION. EXCAVATIONS SHALL BE A MINIMUM 18-INCHES SQUARE.

THESE PRELIMINARY EXCAVATIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY.

THE CONTRACTOR SHALL INSTALL DUCTILE IRON AWSS HYDRANT FINISH PLATES (PAIR PER HYDRANT) AT ALL (E) AWSS HYDRANTS IN THIS CONTRACT WHERE THE (E) SIDEWALK IS SHOWN TO BE REMOVED AND REPLACED, OR WHEN THE (E) SIDEWALK IS REMOVED AND REPLACED DUE TO ADJACENT WORK OR WHEN THE SIDEWALK IS REPLACED AT THE CONTRACTOR'S DISCRETION. (E) HYDRANT LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL FOLLOW THE AFOREMENTIONED REQUIREMENTS FOR F/I HYDRANT FINISH PLATES. THE DUCTILE IRON FINISH PLATES ARE THE SAME AS THE FINISHED PLATES CALLED OUT TO BE FURNISHED AND INSTALLED FOR (N) AWSS HYDRANTS SHOWN TO BE FURNISHED ON THE NEW WORK DRAWINGS. REFER TO THE AWSS STANDARD DRAWING DETAILS FOR THE INSTALLATION OF THE DUCTILE IRON FINISH PLATES.

TEMPORARY STREET BASE, PAVEMENT AND SIDEWALK RESTORATION ARE INCIDENTAL TO THE WORK. REFER TO RELATED DWGS IN THE CONTRACT PACKAGE FOR PERMANENT RESTORATION OF CONCRETE STREET BASE, PAVEMENT AND SIDEWALKS.

CONSTRUCTION SEQUENCING

THE AWSS REMOVAL AND NEW WORK AS SHOWN ON DWGS MA-05 THROUGH MA-18 SHALL BE COMPLETED PRIOR TO THE (N) PAVING WORK AND CONSTRUCTION OF THE PEDESTRIAN AND BUS BULB OUTS, SFMTA MUNI BOARDING ISLANDS, MEDIAN ISLAND, LANDSCAPE PLANTING AREAS, AT THE INTERSECTIONS ALONG SOUTH VAN NESS AVENUE AND VAN NESS AVENUE, BETWEEN MISSION AND LOMBARD STREETS. REMOVAL AND NEW WORK AT EACH INTERSECTION AND AS SHOWN ON EACH PLAN DWG SHALL BE PERFORMED IN A CONTINUOUS SEQUENCE DUE TO SFFD OPERATIONAL REQUIREMENTS FOR FIREFIGHTING WATER IN THE VICINITY OF THE CONSTRUCTION AREA. COORDINATE WITH SFWD FOR MAIN LINE AND/OR HYDRANT SHUT DOWN PRIOR TO BEGINNING ANY WORK. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.

AWSS LEGEND

(THIS IS A STANDARD AWSS LEGEND - NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT)

	CENTERLINE OF AWSS TO BE REMOVED (REMOVAL WORK) AND/OR INSTALLED (NEW WORK)
	EXISTING PIPE (TO REMAIN IN PLACE)
	EXISTING PIPE TO BE ABANDONED IN PLACE
	VALVE IN VALVE VAULT - PLAN
	VALVE IN VALVE VAULT - ELEVATION
	VALVE BOX, FRAME, COVER, DUST PAN - ELEVATION
	DI FLANGED GATE VALVE
	CI GATE VALVE
	HIGH PRESSURE HYDRANT ASSEMBLY - PLAN
	HIGH PRESSURE HYDRANT ASSEMBLY - ELEVATION
	HYDRANT RISER - ELEVATION
	AIR VALVE ASSEMBLY - ELEVATION
	CONCRETE THRUST BLOCK
	DI BELL AND SPIGOT PUSH-ON JOINT (PIPE) OR MECHANICAL JOINT (FITTINGS)
	CI BELL AND SPIGOT (PIPE) LEAD JOINT OR FITTING LEAD JOINT
	DI FLANGED
	DI AND CI ELBOW - PLAN AND ELEVATION (INTO SHEET)
	DI AND CI TEE - PLAN
	DI AND CI TEE - ELEVATION
	DI SLEEVE
	CI SLEEVE WITH LEAD JOINTS
	DI AND CI CAP
	DI STOP COLLAR RESTRAINT WITH TIE RODS, NUTS AND WASHERS AT JOINT
	DI BELL COLLAR RESTRAINT WITH TIE RODS, NUTS AND WASHERS AT JOINT
	FIREBOAT WHARF MANIFOLD
	AWSS SETTLEMENT REFERENCE POINT AND NUMBER
	AWSS MONITORING POINT AND NUMBER
	SFWD LOW PRESSURE FIRE HYDRANT

AWSS ABBREVIATIONS

A/R	AS REQUIRED
ASSY	ASSEMBLY
AWSS	AUXILIARY WATER SUPPLY SYSTEM
BFC	BORROW FROM CITY
BOP	BOTTOM OF PIPE
BS	BELL AND SPIGOT PIPE
BSL	BELL AND SPIGOT LUGGED PIPE
CCSF	CITY AND COUNTY OF SAN FRANCISCO
CDD	CITY DISTRIBUTION DIVISION
CI	CAST IRON
CTEL	CONNECT TO EXISTING LINE
CTS	CUT TO SUIT
DB	DOUBLE BELL PIPE
DBL	DOUBLE BELL LUGGED
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
DS	DOUBLE SPIGOT PIPE
DSL	DOUBLE SPIGOT LUGGED PIPE
DWG	DRAWING(S)
(E)	EXISTING
FC	FURNISH BY CITY
FLG	FLANGE
F/I	FURNISH AND INSTALL
FS	FROM SALVAGE
GHB	CLASS "GH" BELL
HP HYD	HIGH PRESSURE HYDRANT
HPW	HIGH PRESSURE WATER
LP	LOW PRESSURE
MJB	MECHANICAL JOINT BELL
(N)	NEW - FURNISH & INSTALL INSTALL UNDER THIS CONTRACT
PL	PROPERTY LINE
RC	REMOVE AND DISPOSE OF AS CONTRACTOR'S PROPERTY
R&S	REMOVE AND SALVAGE AS CITY PROPERTY
RIP	REMAIN IN PLACE
RTC	CLEAN AND RETURN TO CITY
SFPW	SAN FRANCISCO PUBLIC WORKS
SFFD	SAN FRANCISCO FIRE DEPARTMENT
SFPUC	SAN FRANCISCO PUBLIC UTILITIES COMMISSION
SFWD	SAN FRANCISCO WATER DEPARTMENT
SRP	SETTLEMENT REFERENCE POINT
STN STL, SS	STAINLESS STEEL
Typ	TYPICAL

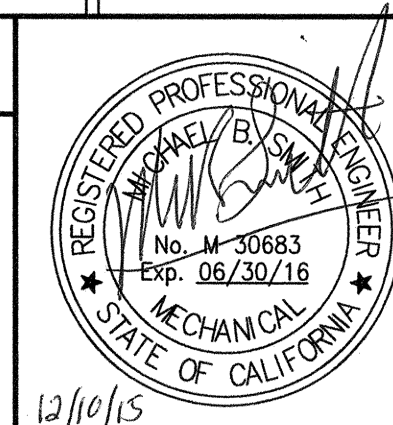
SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT
AUXILIARY WATER SUPPLY SYSTEM WORK
LEGEND, ABBREVIATIONS AND GENERAL NOTES

REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING				
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DESIGN DIVISION MANAGER 11/10/15	CHECKED M SMITH 11/2015			
DIVISION MANAGER DE 11/10/15	CHECKED M CHEE 11/2015			
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

APPROVED	APPROVED	SCALE
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DATE
PLAN NO.	DRAWING/FILE NO.	REVISION NO.
MA-01	102,760	0

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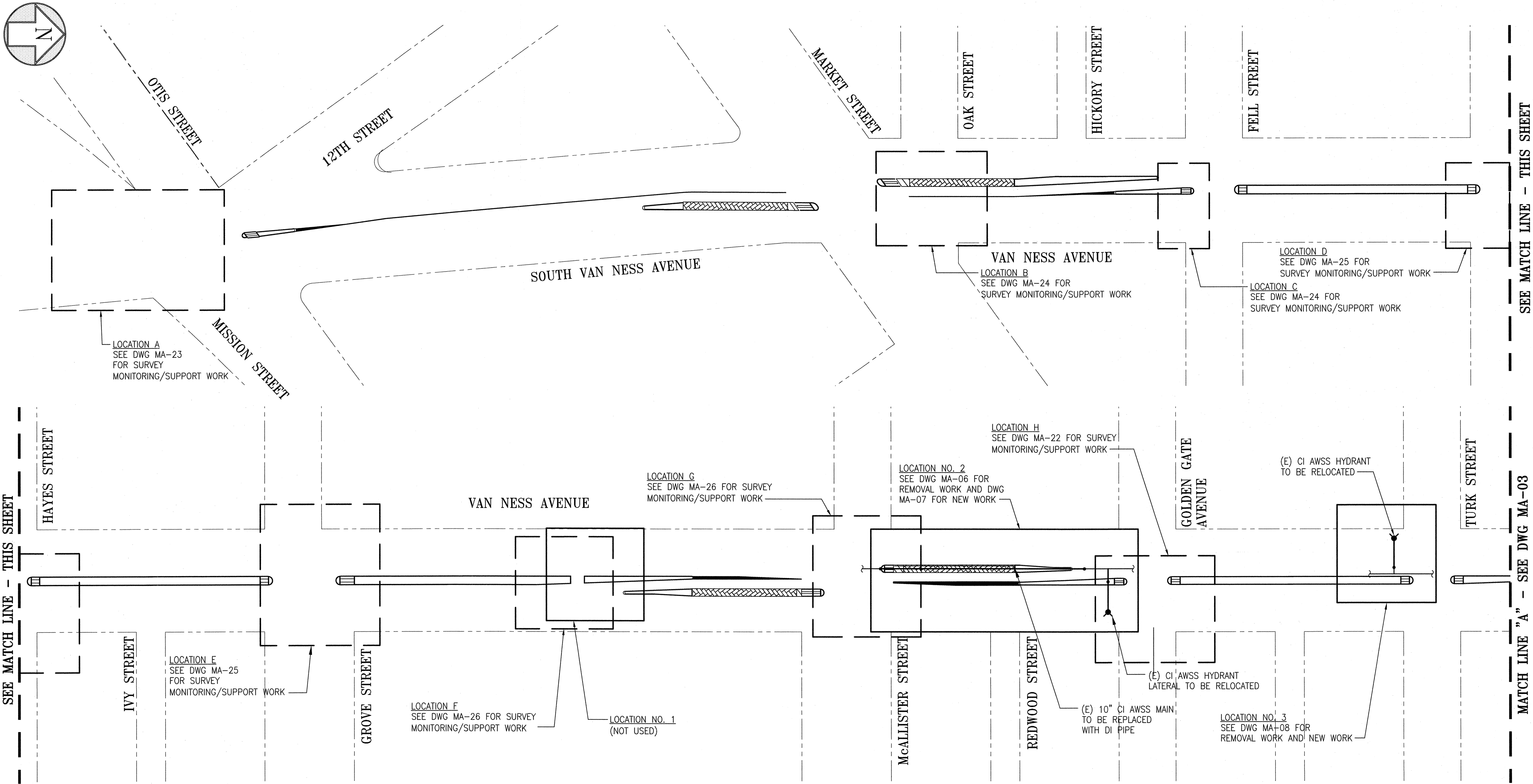
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SFPW JOB ORDER NO. 2106J

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AWSS - LOCATIONS OF WORK I
(SOUTH VAN NESS AVENUE/VAN NESS AVENUE, MISSION STREET TO TURK STREET)
SCALE: NONE

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CITY AND COUNTY OF SAN FRANCISCO	
SAN FRANCISCO PUBLIC WORKS	
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SFMTA CONTRACT NO. 1289

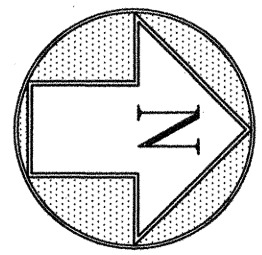
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

**MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT**

**AUXILIARY WATER SUPPLY SYSTEM WORK
LOCATIONS OF WORK I**

APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION	SCALE NONE
PLAN NO. MA-02	DRAWING/FILE NO. 102,761	DATE 11/2015
		REVISION NO. 0

SFPUC JOB ORDER NO. 21061



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SEE MATCH LINE - THIS SHEET

SEE MATCH LINE - THIS SHEET

MATCH LINE "B" - SEE DWG MA-04

LARCH STREET

EDDY STREET

WILLOW STREET

LOCATION NO. 1
SEE DWG MA-27 FOR
SURVEY MONITORING/SUPPORT WORK

LOCATION NO. 5
SEE DWG MA-10 FOR REMOVAL WORK
AND DWG MA-11 FOR NEW WORK

(E) CI AWSS HYDRANT
TO BE RELOCATED

LOCATION K
SEE DWG MA-28 FOR SURVEY
MONITORING/SUPPORT WORK

LOCATION NO. 6
SEE DWG MA-12 FOR REMOVAL WORK
AND DWG MA-13 FOR NEW WORK

LOCATION L
SEE DWG MA-29 FOR
SURVEY
MONITORING/SUPPORT
WORK

VAN NESS AVENUE

VAN NESS AVENUE

LOCATION NO. 4
(NOT USED)

ELLIS STREET

OLIVE STREET

LOCATION J
SEE DWG MA-28
FOR SURVEY
MONITORING/SUPPORT
WORK

O'FARRELL STREET

MYRTLE STREET

(E) 18" CI AWSS
MAIN TO BE REPLACED
WITH DI PIPE

GEARY STREET

(E) 18" CI AWSS MAIN
TO BE REPLACED WITH
DI PIPE

CEDAR STREET

(E) 18" CI AWSS MAIN
TO REMAIN IN PLACE
(TYP)

POST STREET

HEMLOCK STREET

LOCATION M
SEE DWG MA-29
FOR SURVEY
MONITORING/SUPPORT
WORK

SUTTER STREET

FERN STREET

BUSH STREET

AUSTIN STREET

(E) CI AWSS HYDRANT LATERAL
TO BE RELOCATED

VAN NESS AVENUE

CALIFORNIA STREET

SACRAMENTO STREET

LOCATION NO. 7
(NOT USED)

LOCATION N
SEE DWG MA-30 FOR SURVEY
MONITORING/SUPPORT WORK

PINE STREET

LOCATION O
SEE DWG MA-30 FOR SURVEY
MONITORING/SUPPORT WORK

LOCATION NO. 8
SEE DWG MA-15 FOR
REMOVAL WORK AND NEW WORK

LOCATION P
SEE DWG MA-31 FOR SURVEY
MONITORING/SUPPORT WORK

LOCATION Q
SEE DWG MA-31 FOR SURVEY
MONITORING/SUPPORT WORK

AWSS - LOCATIONS OF WORK II
(VAN NESS AVENUE, TURK STREET TO SACRAMENTO/CLAY STREETS - MID-BLOCK)

SCALE: NONE

SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

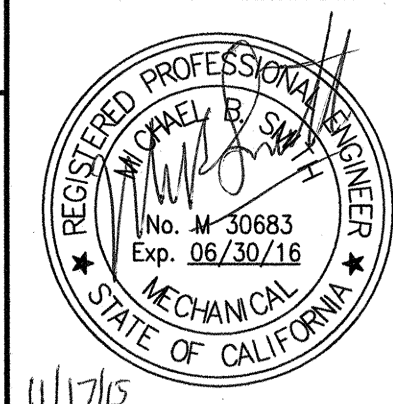
MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

AUXILIARY WATER SUPPLY SYSTEM WORK
LOCATIONS OF WORK II

APPROVED: [Signature] ENGINEERING MANAGER
APPROVED: [Signature] MANAGER, CITY DISTRIBUTION DIVISION
SCALE: NONE
DATE: 11/2015
REVISION NO.: 0

REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC. USED

GATE BOOK PAGES
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SAN FRANCISCO PUBLIC WORKS				
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NO.	DATE	DESCRIPTION	BY	APPR'D
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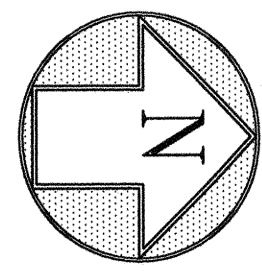
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SFPW JOB ORDER NO. 2106J

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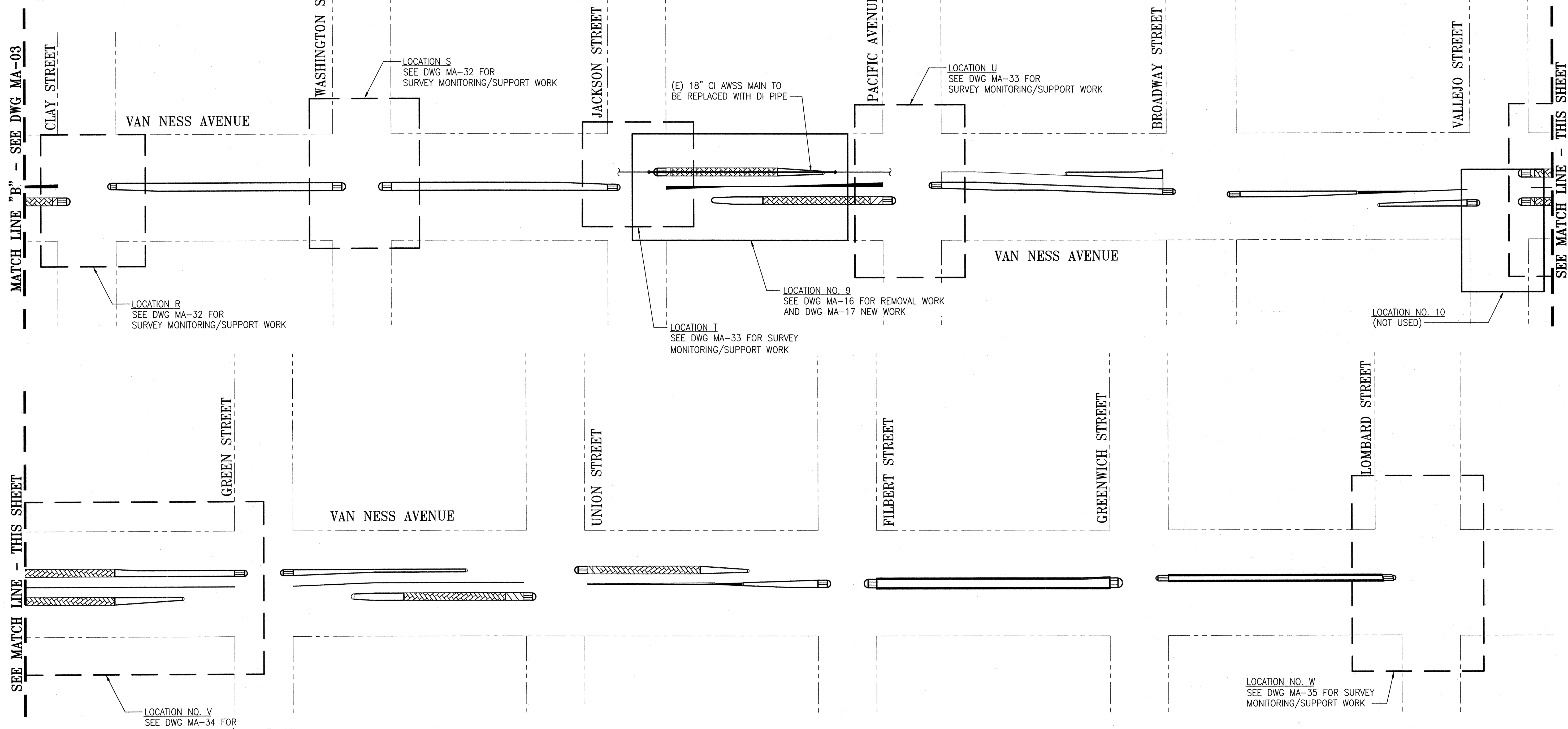
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MATCH LINE "B" - SEE DWG MA-03

SEE MATCH LINE - THIS SHEET

SEE MATCH LINE - THIS SHEET



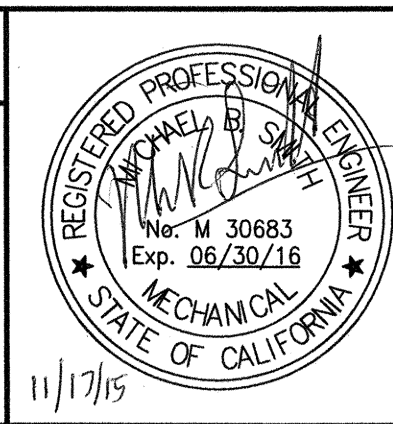
**AWSS - LOCATIONS OF WORK III
(VAN NESS AVENUE, CLAY STREET TO LOMBARD STREET)**

SCALE: NONE

**FOR THE SOLE USE OF THE DOCUMENT
RECIPIENT - DO NOT CITE, COPY, OR
CIRCULATE WITHOUT THE EXPRESS
PERMISSION OF THE SFPUC.**

REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC. USED

GATE BOOK PAGES
NO.



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER 11/17/15	DRAWN AH/M MARTIN 11/2015		
DEPUTY DIVISION MANAGER	DESIGNED SMITH 11/2015		
DIVISION MANAGER DE 11/20/15	CHECKED M CHEE 11/2015		
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

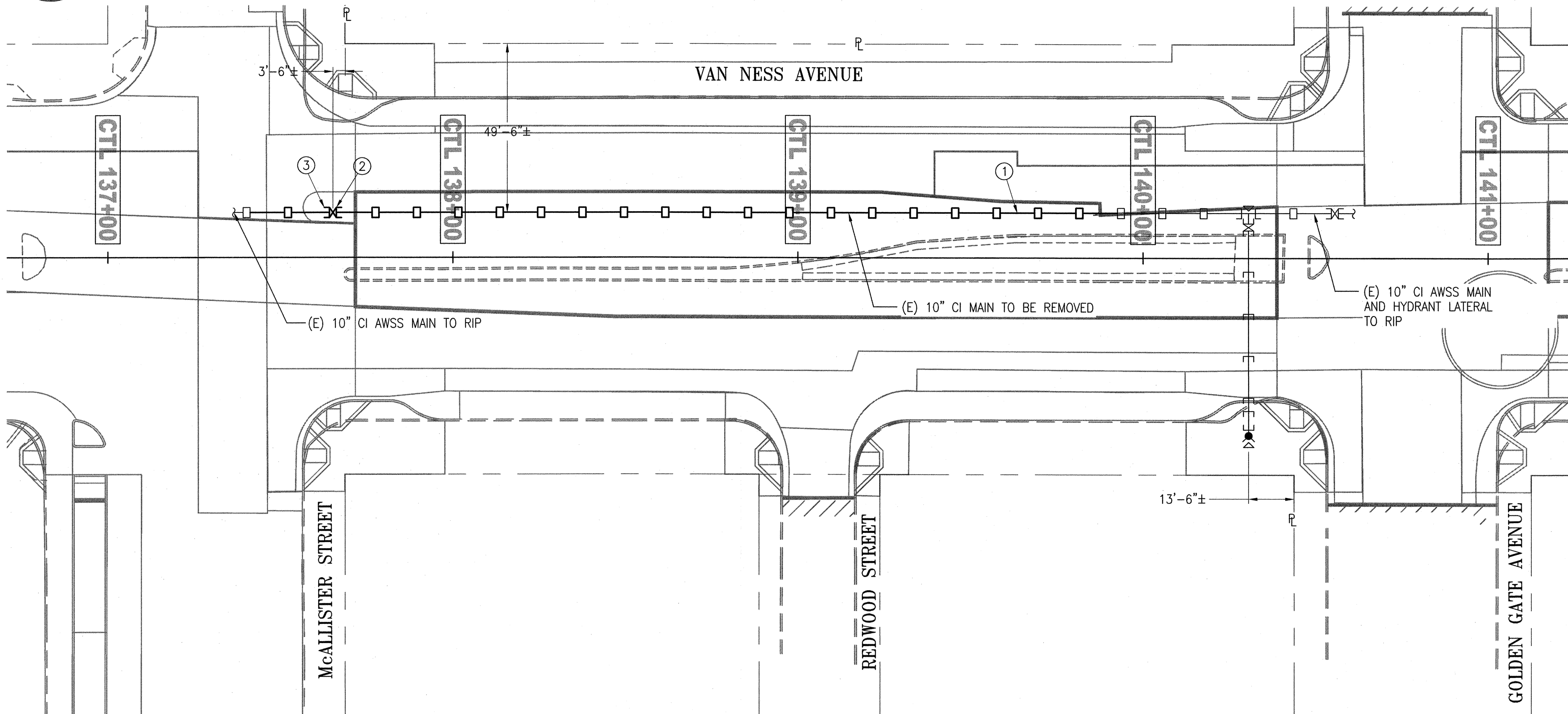
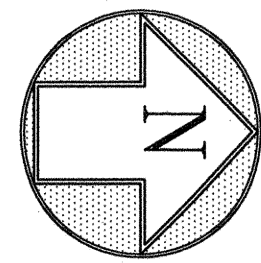
**MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT**

**AUXILIARY WATER SUPPLY SYSTEM WORK
LOCATIONS OF WORK III**

APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION	SCALE NONE
PLAN NO. MA-04	DRAWING/FILE NO. 102,763	DATE 11/2015
		REVISION NO. 0

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

SFPDW JOB ORDER NO. 21061



REMOVAL WORK - PLAN
SCALE: 1"=20'-0"

NOTES:

1. REFER TO DWGS MA-07 FOR NEW WORK PLAN.
2. EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
-10" CI PIPE ON VAN NESS AVENUE AT McALLISTER STREET: 4'-4"± TO 6'-11"±
-10" CI PIPE ON VAN NESS AVENUE AT GOLDEN GATE AVENUE: 4'-4"± TO 5'-7"±
3. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT DEPTHS AND LOCATIONS OF AWSS PIPES.
4. REFER TO RELATED DWGS IN THIS CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE REMOVED.
5. REFER TO DWG MA-01 FOR NOTIFICATION, SCHEDULING AND SEQUENCING OF WORK.

REMOVE AND DISPOSE AS THE CONTRACTOR'S PROPERTY (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	21	10" CI DS PIPE, 12', AND SLEEVE
2	1	10" CI GHB GATE VALVE, VALVE BOX, FRAME, COVER, DUST PAN (R&S)
3	A/R	STEEL TIE RODS, NUTS, WASHERS

LOCATION NO. 2 - VAN NESS AVENUE BETWEEN McALLISTER STREET AND GOLDEN GATE AVENUE

SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

AUXILIARY WATER SUPPLY SYSTEM WORK
LOCATION NO. 2
REMOVAL WORK - PLAN

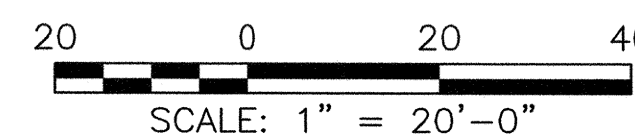
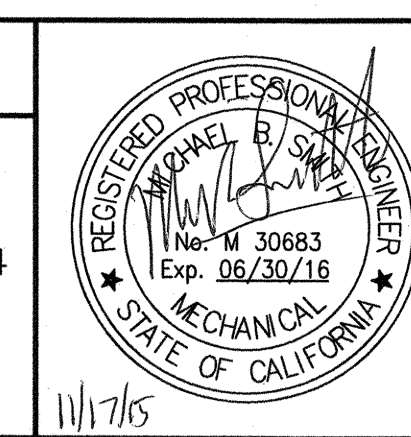
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION	SCALE 1"=20'-0"
MA-06	102,765	REVISION NO. 0

CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING				
SECTION MANAGER <i>[Signature]</i>	DRAWN BY AH/M MARTIN 11/2015			
DEPUTY DIVISION MANAGER <i>[Signature]</i>	DESIGNED BY M SMITH 11/2015			
CHECKED BY M CHEE 11/2015				
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC. USED

GATE BOOK PAGES
NO.

AWSS DWG NOS. 53, 54



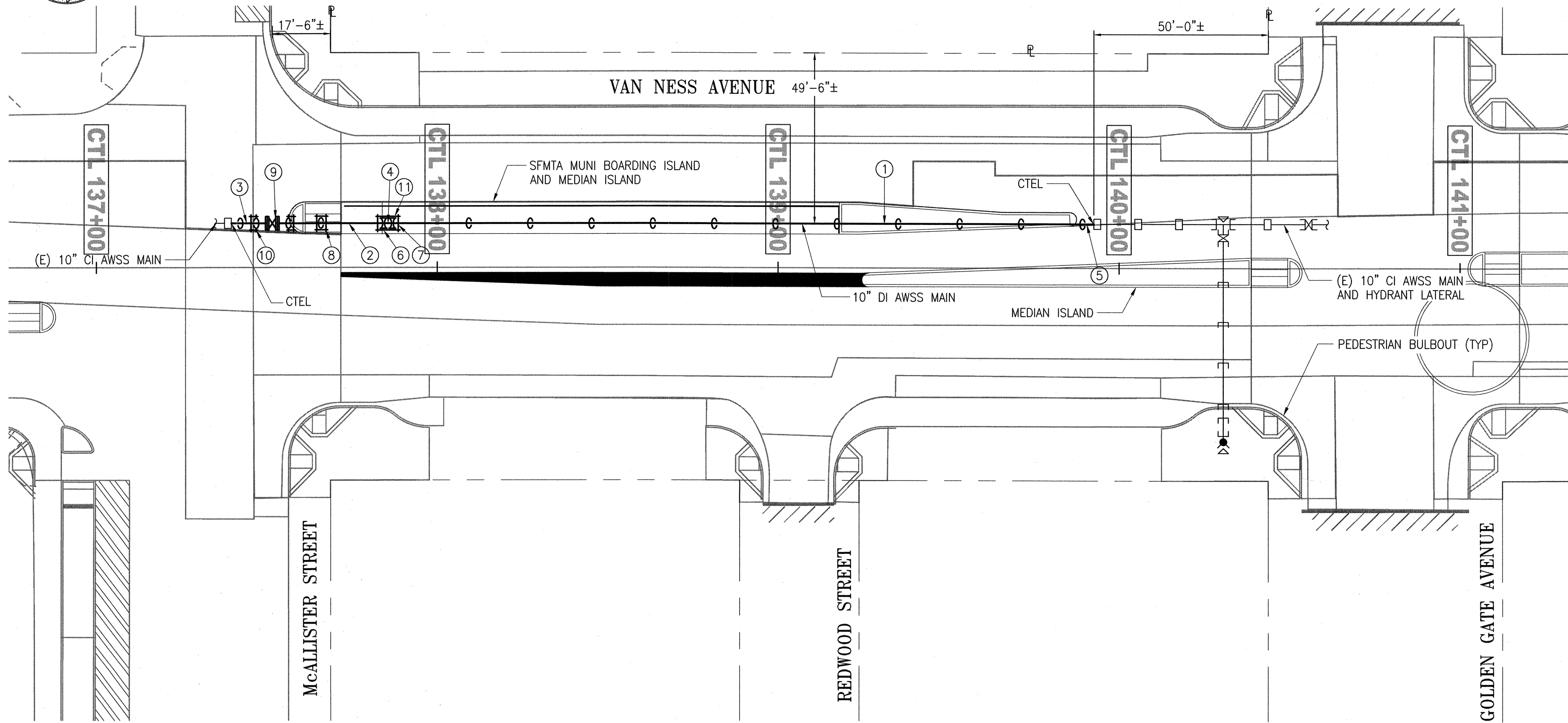
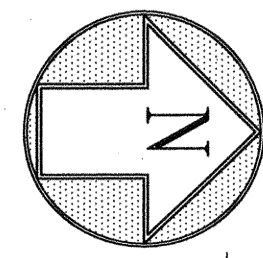
FOR THE SOLE USE OF THE DOCUMENT
RECIPIENT - DO NOT CITE, COPY, OR
CIRCULATE WITHOUT THE EXPRESS
PERMISSION OF THE SFPUC.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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MAGENTA 0.20MM
WHITE 0.35MM
GRAY 0.15MM
9 0.15MM
10 1.00MM
100 0.50MM
210 0.50MM

FILE:
DATE: November 10, 2015 3:57:47 PM
TIME: Tuesday

SDFW JOB ORDER NO. 2106J



NOTES:

- REFER TO THE UTILITY COMPOSITE AND RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE INSTALLED.
- FOR THE NEW WORK PLAN, ALL WORK IS NEW AND SHALL BE FURNISHED/INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY REFERRED TO AS EXISTING.
- MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN ADJACENT UTILITIES/STRUCTURES AND AWSS FACILITIES UNLESS OTHERWISE NOTED OR APPROVED BY THE CITY REPRESENTATIVE.
- REFER TO DWG MA-01 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- THE NEW AWSS PIPE SHALL BE INSTALLED TO MATCH THE ORIGINAL HORIZONTAL AND VERTICAL ALIGNMENT OF THE REMOVED CI PIPE.

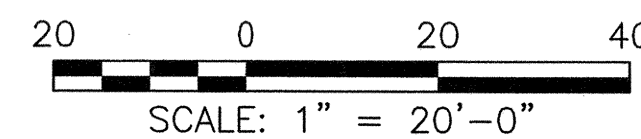
EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
 -10" CI PIPE ON VAN NESS AVENUE AT McALLISTER STREET: 4'-4"± TO 6'-11"±
 -10" CI PIPE ON VAN NESS AVENUE AT GOLDEN GATE AVENUE: 4'-4"± TO 5'-7"±

FURNISH AND INSTALL (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	12	10" DI BS PIPE, 18'
2	1	10" DI DS PIPE, 18'
3	1	10" DI BS PIPE, CTS
4	1	10" DI NIPPLE, CTS
5	2	10" DI GH SPIGOTxMJ SPIGOT ADAPTOR
6	2	10" DI MJB SOLID SLEEVE
7	5	10" DI STOP COLLAR
8	1	10" DI BELL COLLAR
9	1	10" DI CLASS 300 FLG GATE VALVE, VALVE BOX, FRAME, COVER, DUST PAN
10	2	10" DI MJBxFLG ADAPTOR
11	A/R	STAINLESS STEEL TIE RODS, NUTS, WASHERS

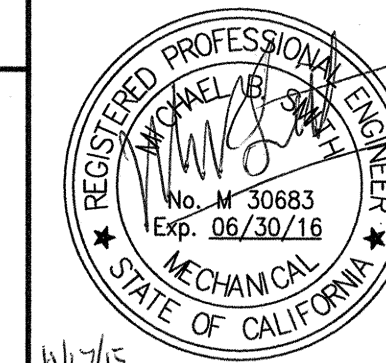
NEW WORK - PLAN
 SCALE: 1"=20'-0"

LOCATION NO. 2 - VAN NESS AVENUE BETWEEN McALLISTER STREET AND GOLDEN GATE AVENUE



FOR THE SOLE USE OF THE DOCUMENT RECIPIENT - DO NOT CITE, COPY, OR CIRCULATE WITHOUT THE EXPRESS PERMISSION OF THE SFPUC.

REFERENCES
 GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED
 GATE BOOK PAGES NO.
 AWSS DWG NOS. 53, 54



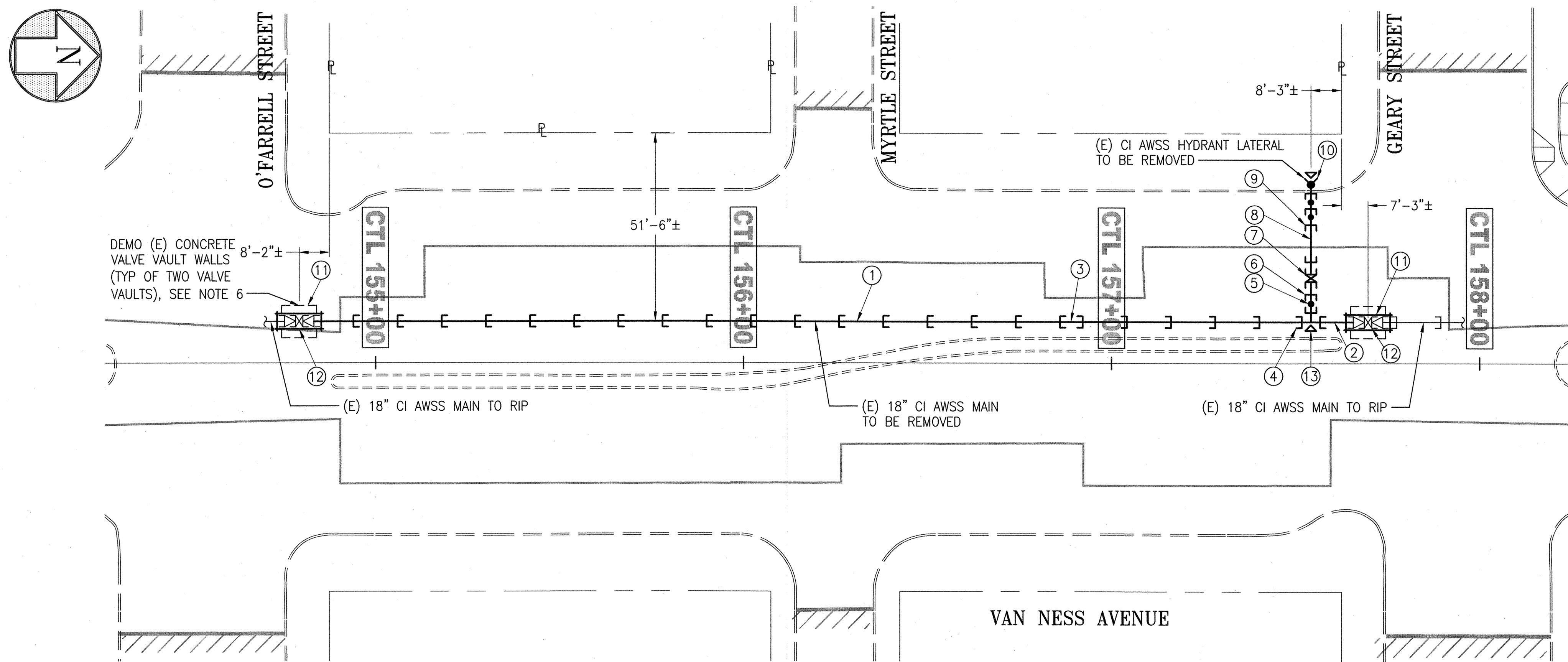
CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECRETARY MANAGER	11/18/15	DRAWN	AH/M MARTIN 11/2015
DIVISION MANAGER	11/20/15	DESIGNED	M SMITH 11/2015
DIVISION MANAGER, DE	11/20/15	CHECKED	M CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION NO. 2 NEW WORK - PLAN			
APPROVED	APPROVED	SCALE	1"=20'-0"
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DATE	11/2015
MA-07	102,766	REVISION NO.	0

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SMTuesday, November 10, 2015 4:05:09 PM

PLOT: EXTENTS
SCALE: 1:1
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22,34
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YELLOW 0.20MM
GREEN 0.25MM
CYAN 0.40MM
BLUE 0.50MM
MAGENTA 0.20MM
WHITE 0.35MM
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REMOVAL WORK - PLAN
SCALE: 1"=20'-0"

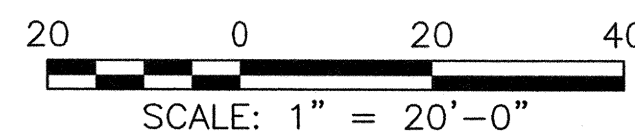
LOCATION NO. 5 - VAN NESS AVENUE BETWEEN O'FARRELL AND GEARY STREETS

NOTES:

- REFER TO DWGS MA-11 FOR NEW WORK PLAN.
- EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
-18" CI PIPE ON VAN NESS AVENUE AT O'FARRELL STREET: 7'-2"±
-18" CI PIPE ON VAN NESS AVENUE AT MYRTLE STREET: 4'-9"±
-18" CI PIPE ON VAN NESS AVENUE AT GEARY STREET: 8'-3"±
- THE CONTRACTOR SHALL FIELD VERIFY THE EXACT DEPTHS AND LOCATIONS OF AWSS PIPES AS THEY CROSS THROUGH THE SEWER.
- REFER TO RELATED DWGS IN THIS CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE REMOVED.
- REFER TO DWG MA-01 FOR NOTIFICATION, SCHEDULING AND SEQUENCING WORK.
- DEMO (E) VALVE VAULT WALLS AS REQUIRED TO ACCESS AND DISASSEMBLE PIPE JOINT AND R/C THE (E) TIE RODS ACROSS THE (E) GATE VALVE TO RIP. REFER TO DWG MA-21.

REMOVE AND DISPOSE AS THE CONTRACTOR'S PROPERTY (UNLESS OTHERWISE NOTED):

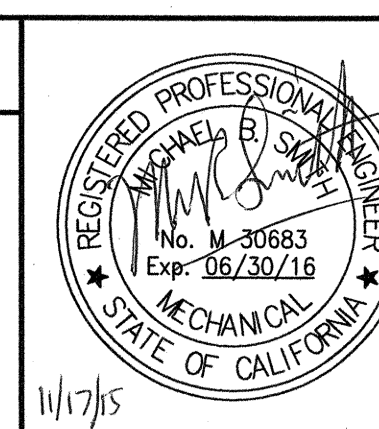
ITEM	QUAN	DESCRIPTION
1	22	18" CI BS PIPE, 12'
2	1	18" CI DS PIPE, 12'
3	1	18" CI NIPPLE, CTS
4	1	18"x8" CI GHB HYDRANT TEE (R&S)
5	1	8" CI AWSS NO. 1 OFFSET (R&S)
6	2	8" CI BS PIPE, CTS
7	1	8" CI GH GATE VALVE, VALVE BOX, FRAME, COVER, DUST PAN (R&S)
8	1	8" CI BS PIPE, CTS
9	2	8" CI GH SPIGOT ELBOW, 45' (R&S)
10	1	CI HP HYDRANT (R&S)
11	2	CI VALVE VAULT FRAME, COVER, DUST PAN (R&S)
12	A/R	STEEL TIE RODS, NUTS, WASHERS
13	3	CONCRETE THRUST BLOCK



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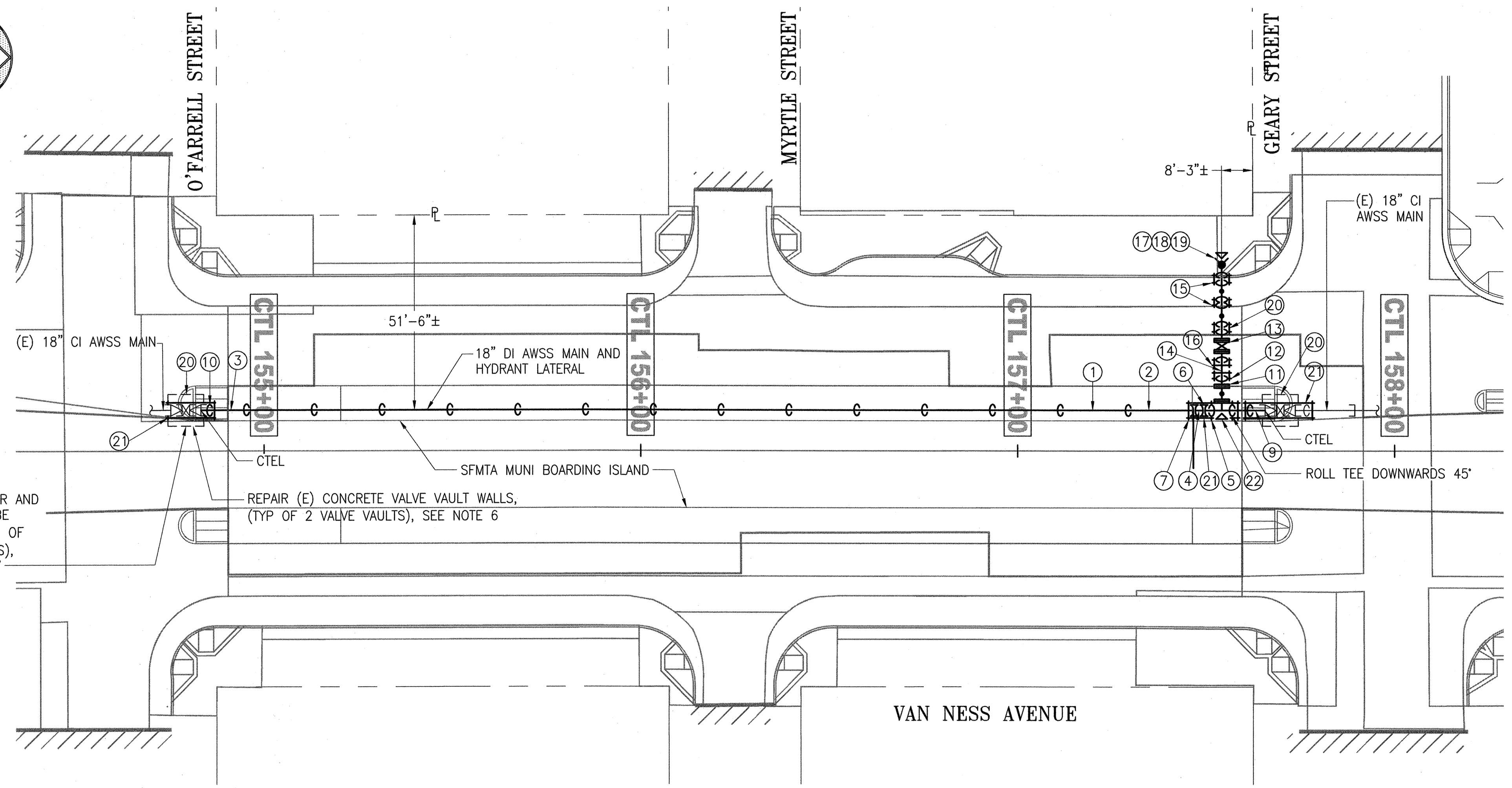
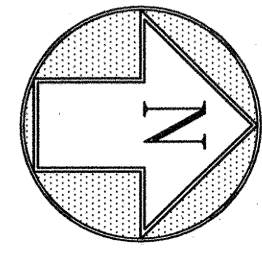
REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.
AWSS DWG NO. 55



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER	11/17/15	DESIGNED BY	M. MARTIN 11/2015
DEPUTY DIVISION MANAGER		CHECKED BY	M. SMITH 11/2015
DIVISION MANAGER		CHECKED BY	M. CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION NO. 5 REMOVAL WORK - PLAN			
APPROVED	APPROVED	SCALE	1"=20'-0"
<i>[Signature]</i>	<i>[Signature]</i>	DATE	11/2015
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DRAWING/FILE NO.	102,769
MA-10		REVISION NO.	0



NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION NO. 5 - VAN NESS AVENUE BETWEEN O'FARRELL AND GEARY STREETS

NOTES:

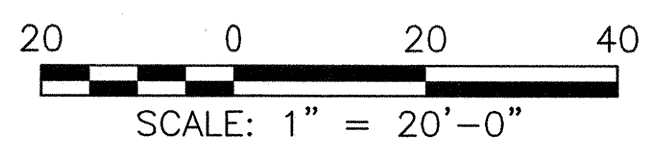
- REFER TO THE UTILITY COMPOSITE AND RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE INSTALLED.
- FOR THE NEW WORK PLAN, ALL WORK IS NEW AND SHALL BE FURNISHED/INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY REFERRED TO AS EXISTING.
- MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN ADJACENT UTILITIES/STRUCTURES AND AWSS FACILITIES UNLESS OTHERWISE NOTED OR APPROVED BY THE CITY REPRESENTATIVE.
- REFER TO DWG MA-01 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- THE NEW AWSS PIPE SHALL BE INSTALLED TO MATCH THE ORIGINAL HORIZONTAL AND VERTICAL ALIGNMENT OF THE REMOVED CI PIPE.

EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
- 18" CI PIPE ON VAN NESS AVENUE AT O'FARRELL STREET: 7'-2"±
- 18" CI PIPE ON VAN NESS AVENUE AT MYRTLE STREET: 4'-9"±
- 18" CI PIPE ON VAN NESS AVENUE AT GEARY STREET: 8'-3"±
- WORK SHALL INCLUDE REPAIRING THE (E) CONCRETE VALVE VAULT WALLS TO THE SATISFACTION OF THE CITY REPRESENTATIVE AFTER PIPE IS INSTALLED AND TESTED. REFER TO DETAILS ON DWG MA-21 FOR F/I (N) SS TIE RODS ACROSS THE (E) GATE VALVE.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY REPRESENTATIVE FOR FURNISHING F/S THE (E) VALVE VAULT COVERS, FRAMES, AND DUST PANS, TO BE INSTALLED FLUSH AND CENTERED WITH THE TOP SURFACE OF THE REFUGE ISLAND PRIOR TO THE ACTUAL INSTALLATION. PRIOR TO INSTALLATION, THE SFWD SHALL APPROVE IN WRITING THE FINAL LOCATION OF THE REFUGE ISLAND OVER THE VALVE VAULT. REFER TO RELATED DWGS IN THE CONTRACT PACKAGE FOR THE REFUGE ISLAND LAYOUT.
- REFER TO AWSS STANDARD DWGS FOR HIGH PRESSURE HYDRANT LAYOUT AND INSTALLATION DETAILS. REFER TO DWG MA-20 FOR HYDRANT LATERAL PROFILE.

FURNISH AND INSTALL (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	12	18" DI BS PIPE, 18'
2	1	18" DI DS PIPE, 18'
3	2	18" DI BS PIPE, CTS
4	2	18" DI NIPPLE, CTS
5	1	18"x8" DI MJBxFLG HYDRANT TEE
6	2	18" DI MJB SOLID SLEEVE
7	3	18" DI STOP COLLAR
8	1	18" DI BELL COLLAR
9	1	18" DI GH SPIGOTxMJ SPIGOT ADAPTOR
10	1	18" DI GH SPIGOTxMJB ADAPTOR
11	1	8" DI CLASS 300 FLG ELBOW, 45°
12	3	8" DI MJBxFLG ADAPTOR
13	1	8" DI GATE VALVE, VALVE BOX, FRAME, COVER, DUST PAN
14	4	8" DI NIPPLE, CTS
15	2	8" DI AWSS MJB ELBOW, 45°
16	2	8" DI STOP COLLAR
17	1	DI HP HYDRANT ASSY
18	2	DI HP HYDRANT FINISHED PLATE
19	A/R	DI HP HYDRANT RISER
20	2	CI VALVE VAULT FRAME, COVER, DUST PAN (FS)
21	A/R	STAINLESS STEEL TIE RODS, NUTS, WASHERS
22	5	CONCRETE THRUST BLOCK

FILE NAME: \\21061_VANNESS_BRT_MISSION_LOMBARD\2_Design\Working_Drawings\EME\AWSS\Current\21061_Ma-11.dwg
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 MAGENTA 0.20MM
 WHITE 0.35MM
 GRAY 0.15MM
 9 0.15MM
 10 1.00MM
 100 0.50MM
 210 0.50MM



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REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.

AWSS DWG NO. 55



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER	11/17/15	DRAWN BY	MARTIN 11/2015
DEPUTY DIVISION MANAGER		DESIGNED BY	M SMITH 11/2015
DIVISION MANAGER	11/20/15	CHECKED BY	M CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289

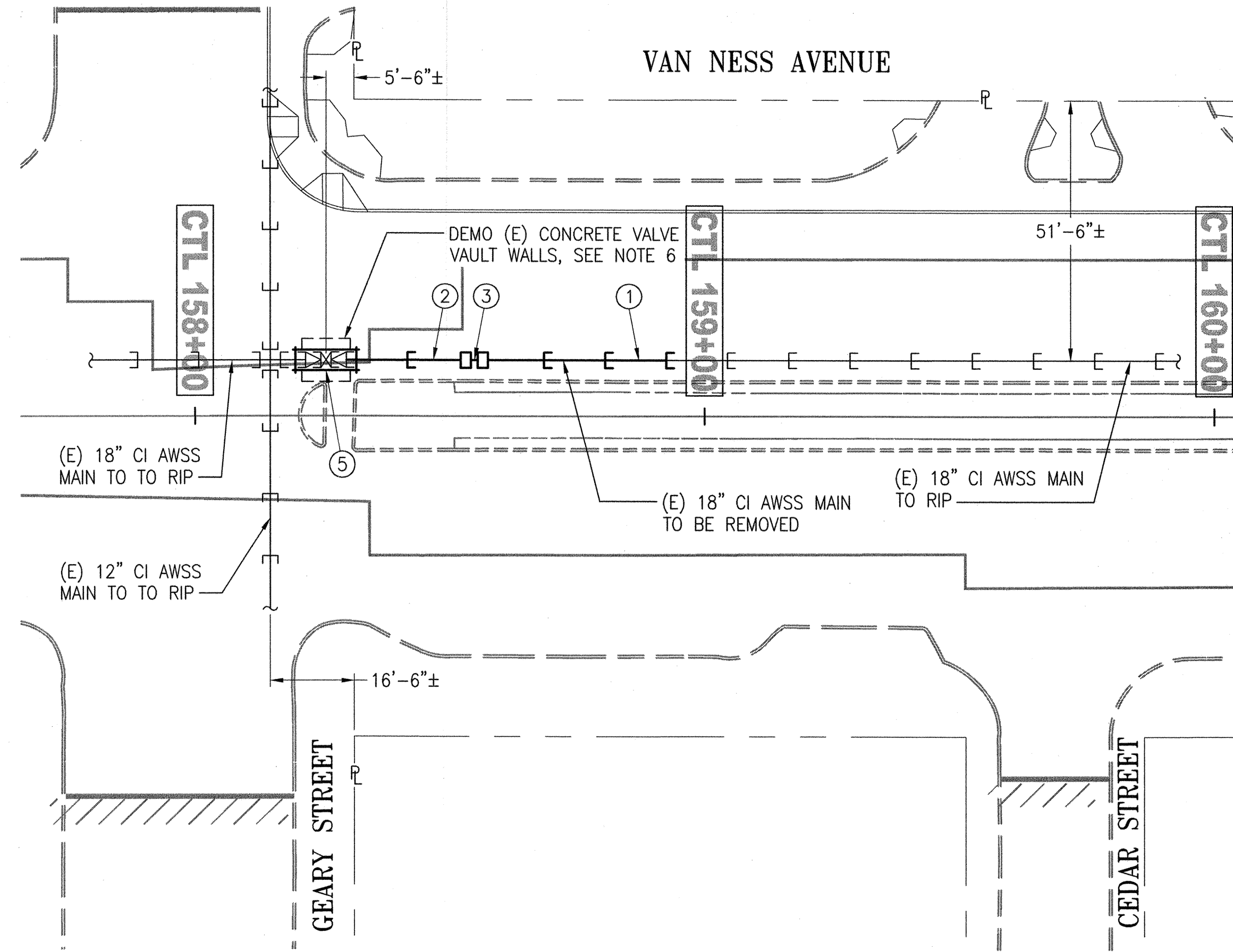
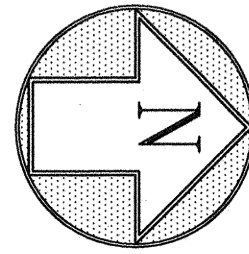
CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

**MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT**

**AUXILIARY WATER SUPPLY SYSTEM WORK
LOCATION NO. 5
NEW WORK - PLAN**

APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION	SCALE 1"=20'-0"
PLAN NO. MA-11	DRAWING/FILE NO. 102,770	REVISION NO. 0

SFPDW JOB ORDER NO. 21061



REMOVAL WORK - PLAN
SCALE: 1"=20'-0"

NOTES:

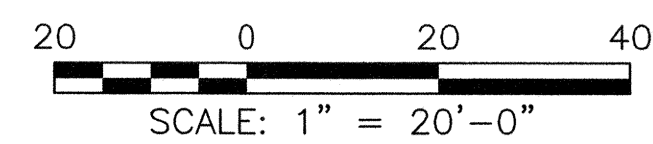
1. REFER TO DWGS MA-13 FOR NEW WORK PLAN.
2. EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
-18" CI PIPE ON VAN NESS AVENUE: 5'-8"± TO 8'-4"±
3. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT DEPTHS AND LOCATIONS OF AWSS PIPES.
4. REFER TO RELATED DWGS IN THIS CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE REMOVED.
5. REFER TO DWG MA-01 FOR NOTIFICATION, SCHEDULING AND SEQUENCING WORK.
6. DEMO (E) VALVE VAULT WALLS AS REQUIRED TO ACCESS AND DISASSEMBLE PIPE JOINT AND R/C THE (E) TIE RODS ACROSS THE (E) GATE VALVE TO RIP. REFER TO DWG MA-21.

REMOVE AND DISPOSE AS THE CONTRACTOR'S PROPERTY (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	4	18" CI BS PIPE, 12'
2	1	18" CI DS PIPE, 12', AND SLEEVE
3	1	18" CI NIPPLE, CTS, AND SLEEVE
4	1	CI CONCRETE VALVE VAULT FRAME, COVER, DUST PAN (R&S)
5	A/R	STEEL TIE RODS, BOLTS, WASHERS

LOCATION NO. 6 - VAN NESS AVENUE BETWEEN GEARY AND CEDAR STREETS

PLOT: EXTENTS
SCALE: 1:1
BORDER:
22,34
COLOR: No.
RED 0.70MM
YELLOW 0.20MM
GREEN 0.25MM
CYAN 0.40MM
BLUE 0.50MM
MAGENTA 0.20MM
WHITE 0.35MM
GRAY 0.15MM
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10 1.00MM
100 0.50MM
210 0.50MM

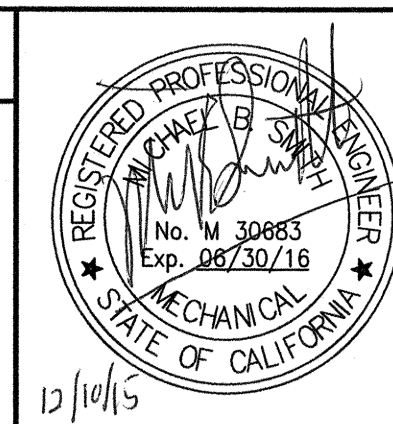


**FOR THE SOLE USE OF THE DOCUMENT
RECIPIENT - DO NOT CITE, COPY, OR
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PERMISSION OF THE SFPUC.**

REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC. USED

GATE BOOK PAGES
NO.

AWSS DWG NOS. 55, 133



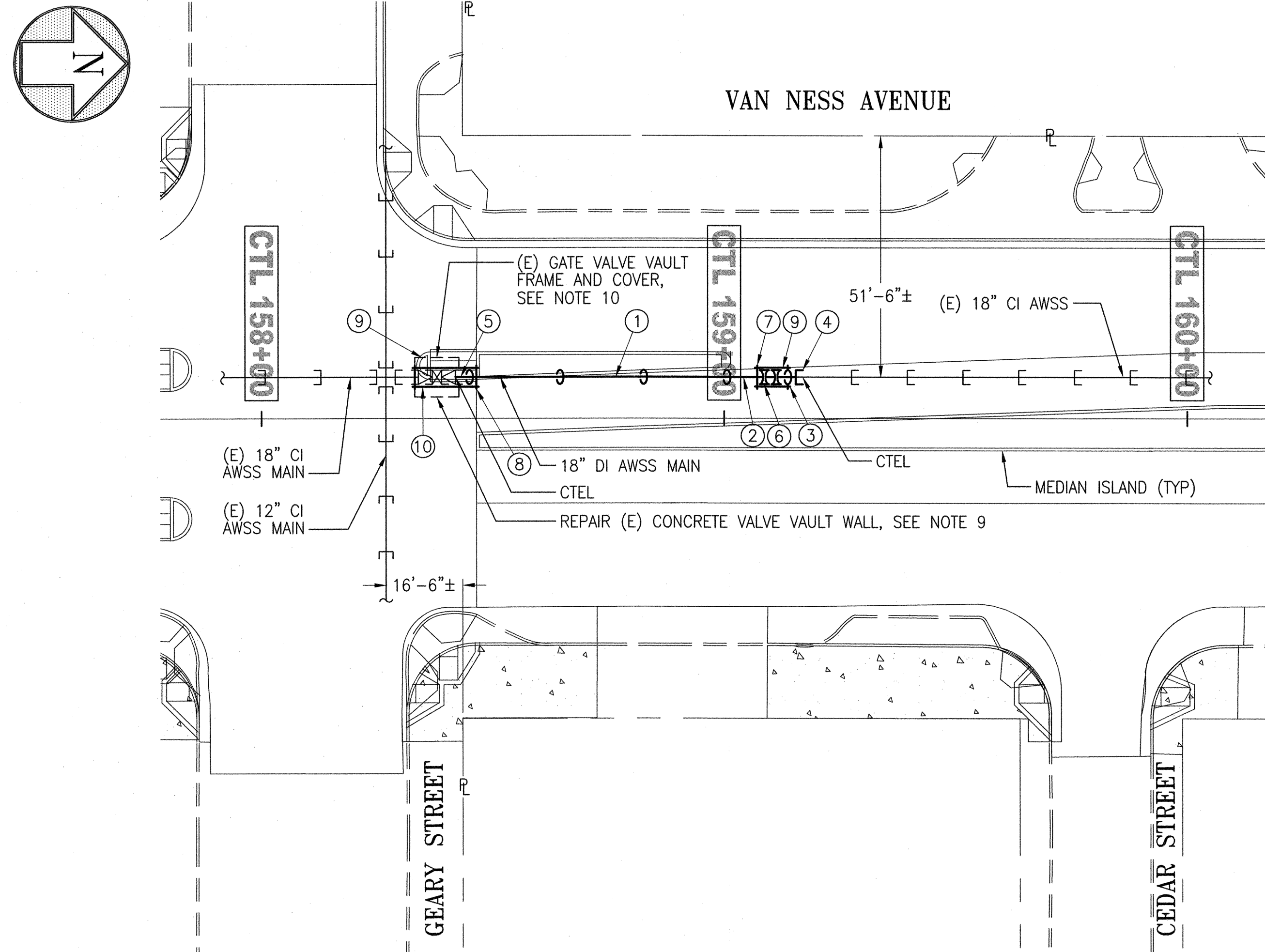
CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING	
SECTION MANAGER DEC 10 2015	DRAWN AH/M MARTIN 11/2015
DEPUTY DIVISION MANAGER 12/10/15	DESIGNED M SMITH 11/2015
DIVISION MANAGER 12/10/15	CHECKED M CHEE 11/2015
NO.	DATE
REVISIONS	

SFMTA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION NO. 6 REMOVAL WORK - PLAN	
APPROVED <i>Ramon L. Min</i> ENGINEERING MANAGER MANAGER, CITY DISTRIBUTION DIVISION	SCALE 1"=20'-0" DATE 11/2015 REVISION NO. 0 0
PLAN NO. MA-12	DRAWING/FILE NO. 102,771

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SAVE: Thursday, December 10, 2015 9:06:06 AM

SFPW JOB ORDER NO. 21061

FILE NAME: V:\21061_VANNESS_BRT_MISSION_LOMBARD\2_Design_Drawings\EME\AWSS\Current\21061_MA-13.dwg
 SAVE: Thursday, December 10, 2015 9:11:45 AM



NEW WORK - PLAN
 SCALE: 1"=20'-0"

LOCATION NO. 6 - VAN NESS AVENUE BETWEEN GEARY AND CEDAR STREETS

NOTES:

- REFER TO THE UTILITY COMPOSITE AND RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE INSTALLED.
- FOR THE NEW WORK PLAN, ALL WORK IS NEW AND SHALL BE FURNISHED/INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY REFERRED TO AS EXISTING.
- MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN ADJACENT UTILITIES/STRUCTURES AND AWSS FACILITIES UNLESS OTHERWISE NOTED OR APPROVED BY THE CITY REPRESENTATIVE.
- THE EXACT LOCATIONS OF THE NEW GATE VALVE AND HYDRANT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY REPRESENTATIVE.
- REFER TO DWG MA-01 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- REFER TO AWSS STANDARD DWGS FOR HIGH-PRESSURE HYDRANT LAYOUT AND INSTALLATION DETAILS.
- THE NEW AWSS PIPE SHALL BE INSTALLED TO MATCH THE ORIGINAL HORIZONTAL AND VERTICAL ALIGNMENT OF THE REMOVED CI PIPE.

EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
-18" CI PIPE ON VAN NESS AVENUE: 5'-8"± TO 8'-4"±
- THE CONTRACTOR SHALL FIELD VERIFY THE EXACT DEPTHS AND LOCATIONS OF AWSS PIPES.
- WORK SHALL INCLUDE REPAIRING THE (E) CONCRETE VALVE VAULT WALL TO THE SATISFACTION OF THE CITY REPRESENTATIVE AFTER PIPE IS INSTALLED AND TESTED. REFER TO DETAILS ON DWG MA-21 FOR F/1 (N) STAINLESS STEEL TIE RODS ACROSS THE (E) GATE VALVE.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY REPRESENTATIVE FOR F/1 THE (N) GATE VALVE COVER, FRAME, AND DUST PAN TO BE INSTALLED FLUSH WITH THE SURFACE OF THE PEDESTRIAN WALKWAY. THE FINAL LOCATION OF THE WALKWAY AND REFUGE ISLAND SHALL BE APPROVED IN WRITING BY THE SFPUC PRIOR TO ACTUAL FORMING AND CONSTRUCTION. REFER TO RELATED DWGS IN THE CONTRACT PACKAGE FOR WALKWAY AND REFUGE ISLAND LAYOUT.
- THE 23" SQUARE VALVE VAULT COVER SHALL BE A CUSTOM COVER PRODUCED BY THE SAME SUPPLIER WHICH SUPPLIES AWSS FITTINGS FOR THE PROJECT. THE COVER SHALL INCLUDE HANDLES MATCHING THE STANDARD AWSS 23" SQUARE DI VALVE VAULT COVERS WITH THE FOLLOWING MODIFICATIONS:

-THE COVER SHALL INCORPORATE 1" DIAMETER x 1/4" HIGH TACTILE DOMES BETWEEN THE COVER EDGE AND THE "HPFS" LETTERS.
 AFTER INSTALLATION, THE CONTRACTOR SHALL PAINT THE COVER WITH A COAT OF OIL BASED PRIMER AND 2 COATS OF OIL BASED SAFETY YELLOW PAINT.

THE CONTRACTOR SHALL SUBMIT DWGS AS PREPARED BY THE FOUNDRY FOR APPROVAL BY THE CITY REPRESENTATIVE PRIOR TO HAVING THE FOUNDRY CAST THE CUSTOM COVERS. FURNISH AND DELIVER FOUR (4) ADDITIONAL COVERS TO THE SFPUC AT NO ADDITIONAL COST TO THE CITY.

FURNISH AND INSTALL (UNLESS OTHERWISE NOTED):

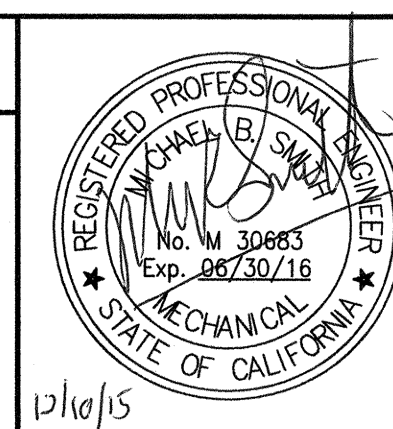
ITEM	QUAN	DESCRIPTION
1	3	18" DI BS PIPE, 18'
2	1	18" DI BS PIPE, CTS
3	2	18" DI NIPPLE, CTS
4	1	12" DI GHBxMJB ADAPTOR
5	1	18" DI GH SPIGOTxMJ SPIGOT ADAPTOR
6	2	18" DI MJB SOLID SLEEVE
7	1	18" DI STOP COLLAR
8	1	18" DI BELL COLLAR
9	1	DI VALVE VAULT 23" SQAURE COVER, FRAME, DUST PAN - SEE NOTES 10 AND 11
10	A/R	STAINLESS STEEL TIE RODS, NUTS, WASHERS

SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION NO. 6 NEW WORK - PLAN	
APPROVED ENGINEERING MANAGER MA-13	APPROVED MANAGER, CITY DISTRIBUTION DIVISION 102,772 SCALE 1"=20'-0" DATE 11/2015 REVISION NO. 0

REFERENCES
 GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

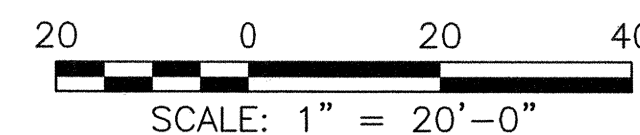
GATE BOOK PAGES NO.	AWSS DWG NOS. 55, 133
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CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
 DESIGN AND ENGINEERING

SECTION MANAGER DEC 10 2015	DRAWN AH/M MARTIN 11/2015
DEPUTY DIVISION MANAGER 12/10/15	DESIGNED M SMITH 11/2015
DIVISION MANAGER 12/10/15	CHECKED M CHEE 11/2015

NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

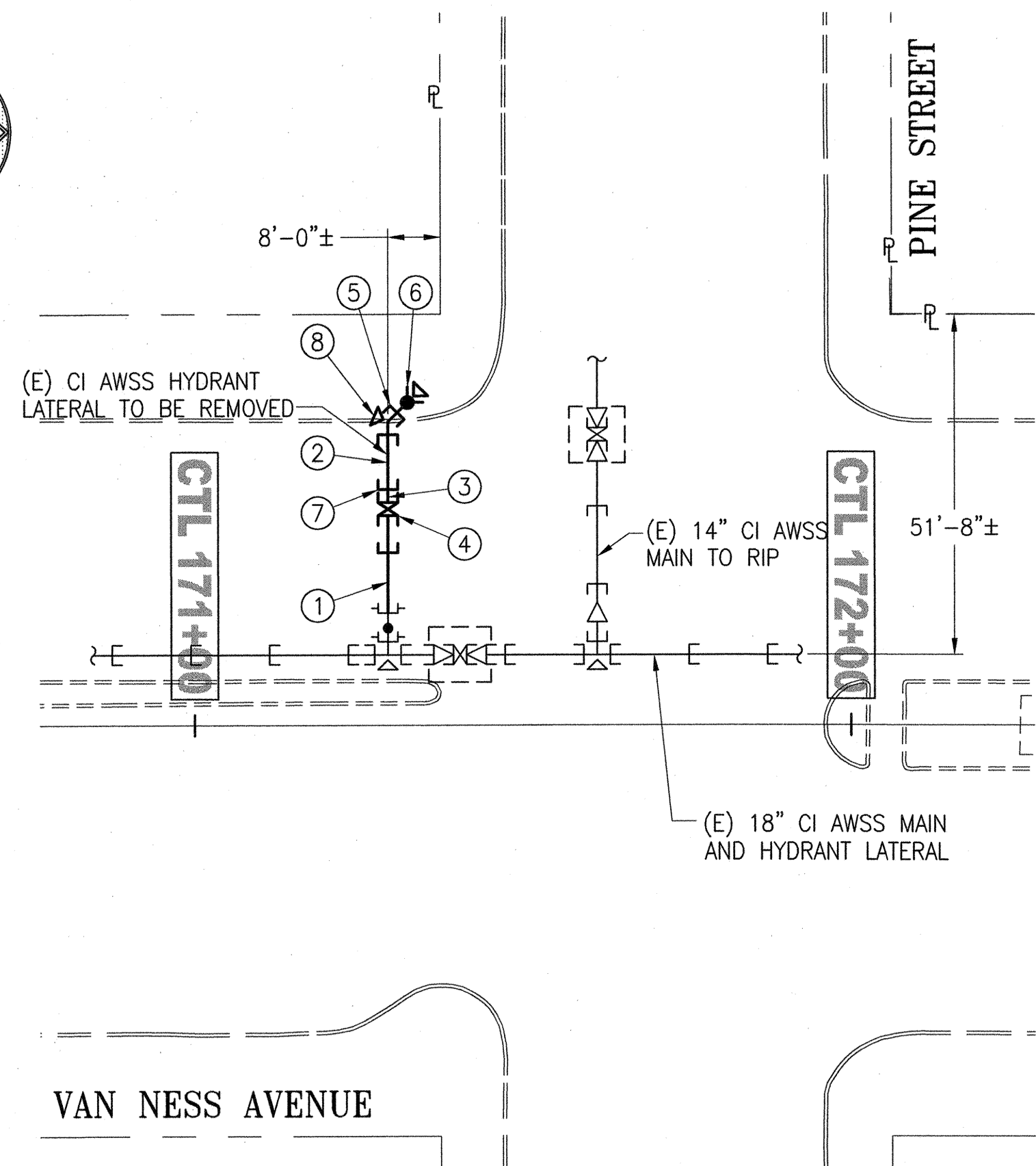
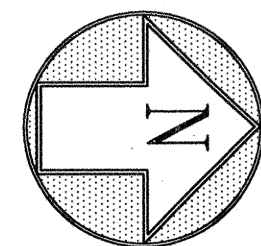


FOR THE SOLE USE OF THE DOCUMENT RECIPIENT - DO NOT CITE, COPY, OR CIRCULATE WITHOUT THE EXPRESS PERMISSION OF THE SFPUC.

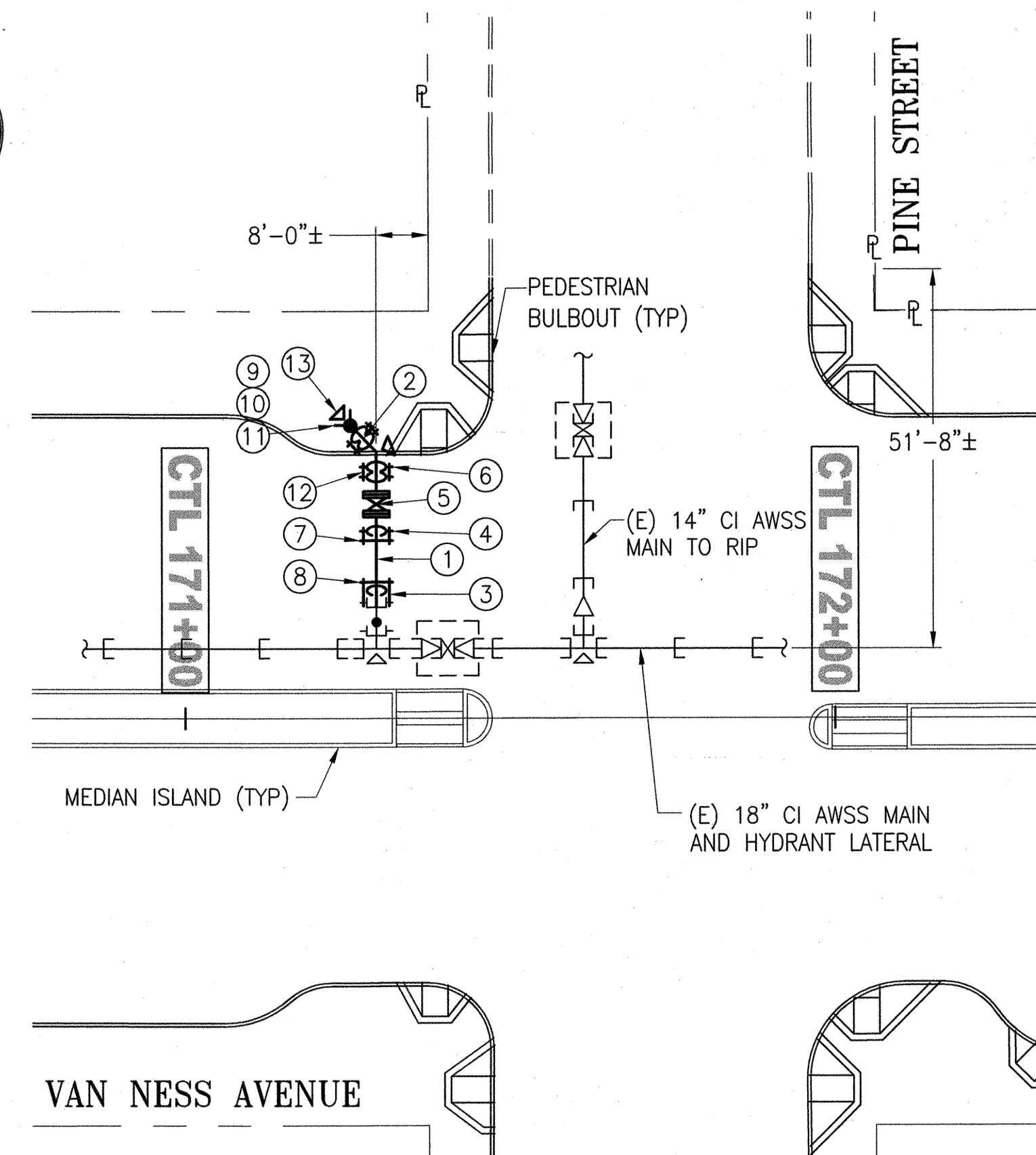
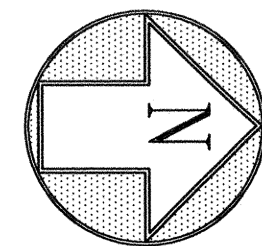
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 BORDER: 22,34

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CYAN	0.40MM
BLUE	0.50MM
MAGENTA	0.20MM
WHITE	0.35MM
GRAY	0.15MM
9	0.15MM
10	1.00MM
100	0.50MM
210	0.50MM



REMOVAL WORK - PLAN
SCALE: 1"=20'-0"



NEW WORK - PLAN
SCALE: 1"=20'-0"

NOTES:

- REFER TO THIS SHEET FOR NEW WORK PLAN.
- EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
-18" CI PIPE ON VAN NESS AVENUE AT PINE STREET: 7'-9"±
- THE CONTRACTOR SHALL FIELD VERIFY THE EXACT DEPTHS AND LOCATIONS OF AWSS PIPES.
- REFER TO RELATED DWGS IN THIS CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE REMOVED.
- REFER TO DWG MA-01 FOR NOTIFICATION, SCHEDULING AND SEQUENCING OF WORK.

REMOVE AND DISPOSE AS THE CONTRACTOR'S PROPERTY (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	1	8" CI BS PIPE, 12'
2	2	8" CI DS PIPE, CTS
3	1	8" CI BS PIPE, CTS
4	1	8" CI GHB GATE VALVE, VALVE BOX, FRAME, COVER, DUST PAN (R&S)
5	1	8" CI GHBxGH SPIGOT ELBOW, 45' (R&S)
6	1	CI HP HYDRANT (R&S)
7	A/R	STEEL TIE RODS, NUTS, WASHERS
8	2	CONCRETE THRUST BLOCK

NOTES:

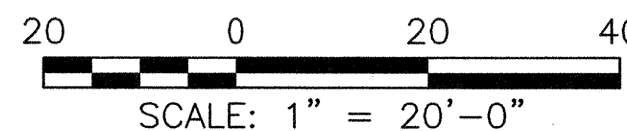
- REFER TO THE UTILITY COMPOSITE AND RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE INSTALLED.
- FOR THE NEW WORK PLAN, ALL WORK IS NEW AND SHALL BE FURNISHED/INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY REFERRED TO AS EXISTING.
- MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN ADJACENT UTILITIES/STRUCTURES AND AWSS FACILITIES UNLESS OTHERWISE NOTED OR APPROVED BY THE CITY REPRESENTATIVE.
- THE EXACT LOCATION OF THE NEW HYDRANT SHALL BE DETERMINED IN THE FIELD BY THE CITY REPRESENTATIVE.
- REFER TO DWG MA-01 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- REFER TO AWSS STANDARD DWGS FOR HIGH-PRESSURE HYDRANT LAYOUT AND INSTALLATION DETAILS. REFER TO DWG MA-20 FOR HYDRANT LATERAL PROFILE.
- THE NEW AWSS PIPE SHALL BE INSTALLED TO MATCH THE ORIGINAL HORIZONTAL AND VERTICAL ALIGNMENT OF THE REMOVED CI PIPE.

EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTER OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
-18" CI PIPE ON VAN NESS AVENUE AT PINE STREET: 7'-0"±

FURNISH AND INSTALL (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	1	8" DI BS PIPE, CTS
2	2	8" DI NIPPLE, CTS
3	1	8" DI GH SPIGOTxMJ SPIGOT ADAPTOR
4	2	8" DI MJBxFLG ADAPTOR
5	1	8" DI CLASS 300 FLG GATE VALVE, VALVE BOX, FRAME, COVER, DUST PAN
6	2	8" DI AWSS MJB ELBOW, 45'
7	1	8" DI STOP COLLAR
8	1	8" DI BELL COLLAR
9	1	DI HP HYDRANT ASSY
10	2	DI HP HYDRANT FINISHED PLATE
11	A/R	DI HYDRANT RISER
12	A/R	STAINLESS STEEL TIE RODS, NUTS, WASHERS
13	2	CONCRETE THRUST BLOCK

LOCATION NO. 8 - VAN NESS AVENUE AT PINE STREET



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REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC., USED

GATE BOOK PAGES NO.

AWSS DWG NO. 56



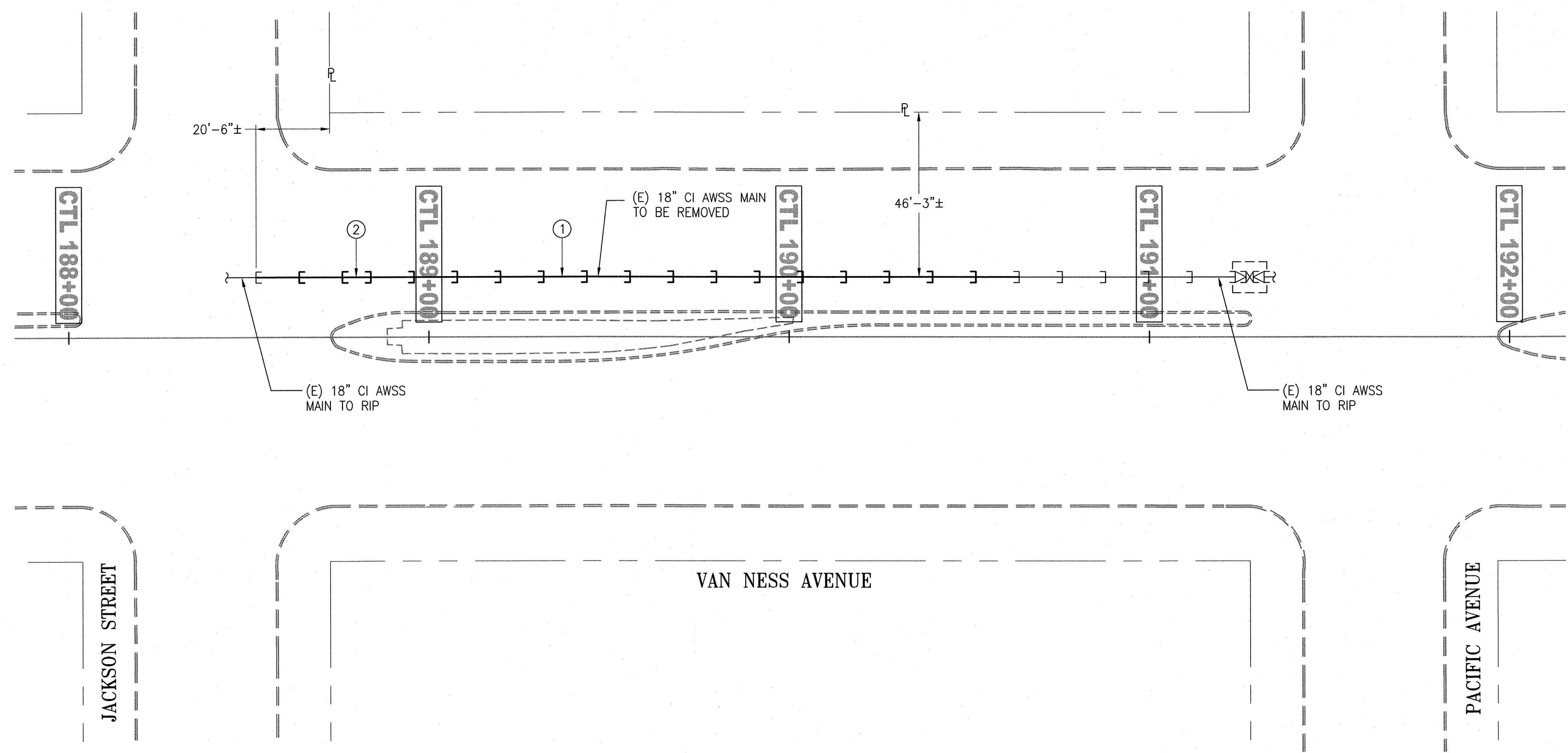
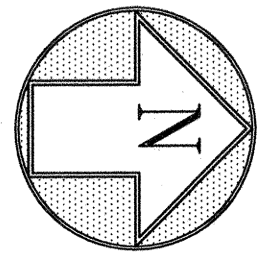
CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER	11/18/15	DRAWN BY	M. MARTIN 11/20/15
DEPUTY DIVISION MANAGER		DESIGNED BY	M. SMITH 11/20/15
DIVISION MANAGER, DE	11/20/15	CHECKED BY	M. CHEE 11/20/15
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289 CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION NO. 8 REMOVAL AND NEW WORK - PLANS			
APPROVED	APPROVED	SCALE	1"=20'-0"
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DATE	11/20/15
PLAN NO.	DRAWING/FILE NO.	REVISION NO.	
MA-15	102,774	0	



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100 0.50MM
210 0.50MM

SFPW JOB ORDER NO. 2106J



NOTES:

- REFER TO DWGS MA-17 FOR NEW WORK PLAN.
- EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
 -18" CI PIPE ON VAN NESS AVENUE AT JACKSON STREET: 6'-8"±
 -18" CI PIPE ON VAN NESS AVENUE AT PACIFIC AVENUE: 8'-6"±
- THE CONTRACTOR SHALL FIELD VERIFY THE EXACT DEPTHS AND LOCATIONS OF AWSS PIPES.
- REFER TO RELATED DWGS IN THIS CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE REMOVED.
- REFER TO DWG MA-01 FOR NOTIFICATION, SCHEDULING AND SEQUENCING OF WORK.

REMOVE AND DISPOSE AS THE CONTRACTOR'S PROPERTY (UNLESS OTHERWISE NOTED):

ITEM	QUAN	DESCRIPTION
1	17	18" CI BS PIPE, 12'
2	1	18" CI DS PIPE, CTS

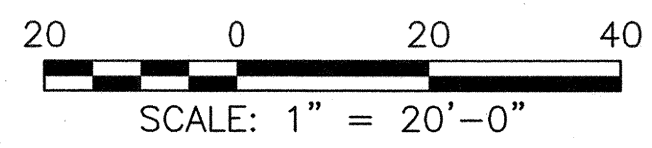
JACKSON STREET

VAN NESS AVENUE

PACIFIC AVENUE

REMOVAL WORK - PLAN
 SCALE: 1"=20'-0"

LOCATION NO. 10 - VAN NESS AVENUE BETWEEN JACKSON STREET AND PACIFIC AVENUE

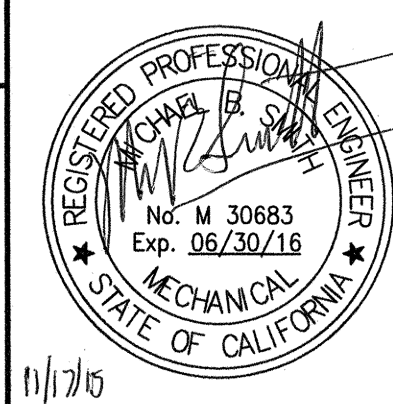


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 PERMISSION OF THE SFPUC.**

REFERENCES
 GATE BOOK PAGES, PLANS,
 SURVEY NOTES, ETC., USED

GATE BOOK PAGES
 NO.

AWSS DWG NO. 58

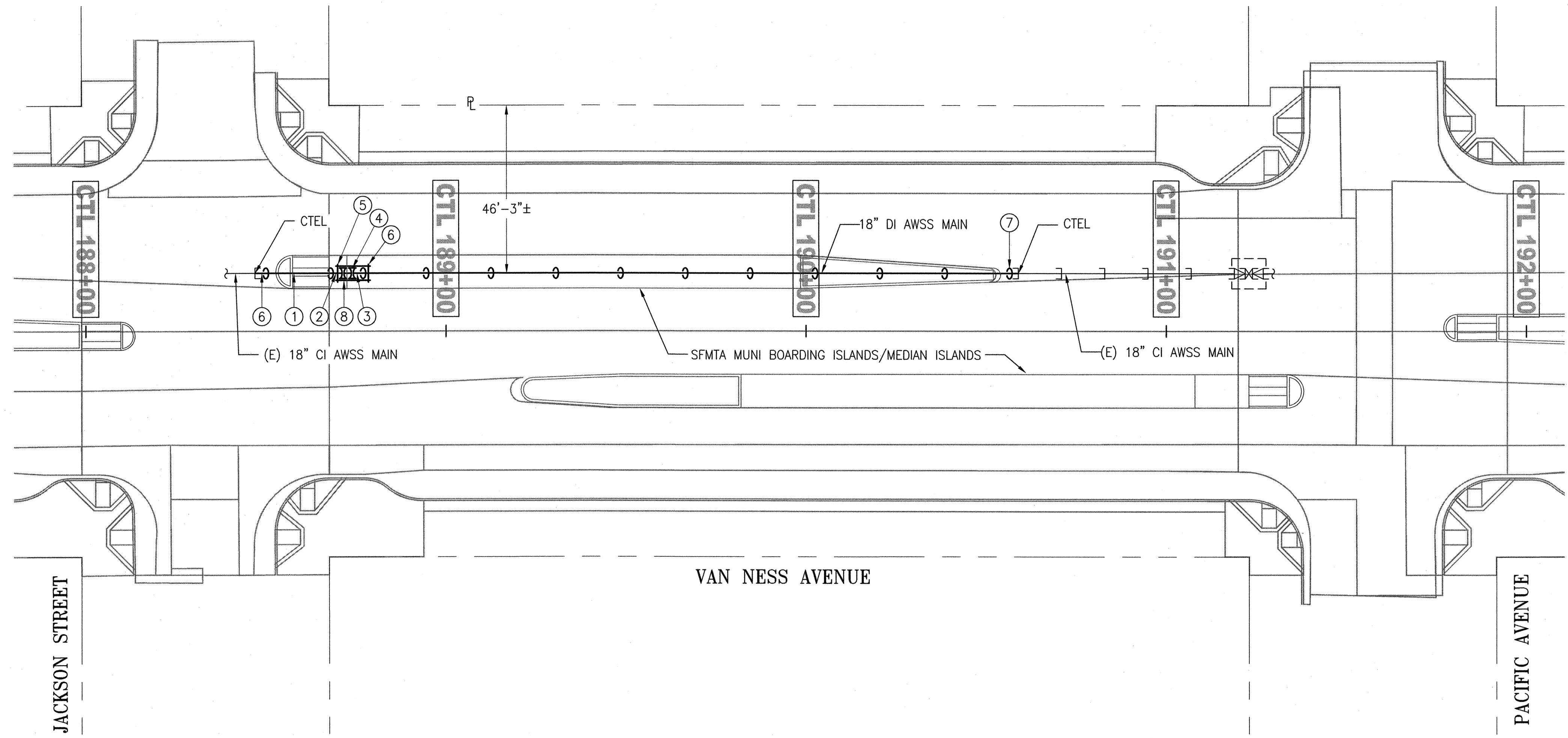
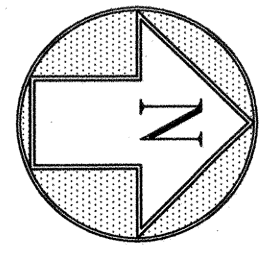


CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
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DEPT. DIVISION MANAGER	11/20/15	DESIGNED	M SMITH 11/2015
DIVISION MANAGER	11/20/15	CHECKED	M CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION NO. 9 REMOVAL WORK - PLAN			
APPROVED	APPROVED	SCALE	1"=20'-0"
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DATE	11/2015
PLAN NO.	DRAWING/FILE NO.	REVISION NO.	
MA-16	102,775	0	

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 GRAY 0.15MM
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 10 1.00MM
 100 0.50MM
 210 0.50MM

SFPW JOB ORDER NO. 2106J



NEW WORK - PLAN
SCALE: 1"=20'-0"

NOTES:

- REFER TO THE UTILITY COMPOSITE AND RELATED DRAWINGS IN THE CONTRACT PACKAGE FOR EXISTING UTILITIES ADJACENT TO THE AWSS FACILITIES TO BE INSTALLED.
- FOR THE NEW WORK PLAN, ALL WORK IS NEW AND SHALL BE FURNISHED/INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY REFERRED TO AS EXISTING.
- MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN ADJACENT UTILITIES/STRUCTURES AND AWSS FACILITIES UNLESS OTHERWISE NOTED OR APPROVED BY THE CITY REPRESENTATIVE.
- REFER TO DWG MA-01 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- THE NEW AWSS PIPE SHALL BE INSTALLED TO MATCH THE ORIGINAL HORIZONTAL AND VERTICAL ALIGNMENT OF THE REMOVED CI PIPE.

EXISTING PIPELINE ELEVATION FROM FINISHED STREET GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC:
 -18" CI PIPE ON VAN NESS AVENUE AT JACKSON STREET: 6'-8"±
 -18" CI PIPE ON VAN NESS AVENUE AT PACIFIC AVENUE: 8'-6"±

FURNISH AND INSTALL (UNLESS OTHERWISE NOTED):

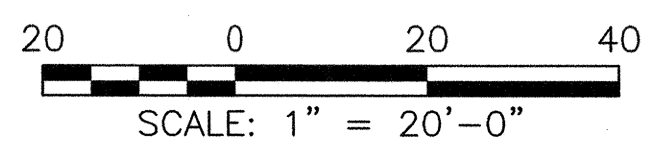
ITEM	QUAN	DESCRIPTION
1	11	18" DI BS PIPE, 18'
2	1	18" DI BS PIPE, CTS
3	2	18" DI NIPPLE, CTS
4	2	18" DI MJB SOLID SLEEVE
5	1	18" DI STOP COLLAR
6	1	18" DI GH SPIGOTxMJ SPIGOT ADAPTOR
7	1	18" DI GH SPIGOTxMJB ADAPTOR
8	A/R	STAINLESS STEEL TIE RODS, NUTS, WASHERS

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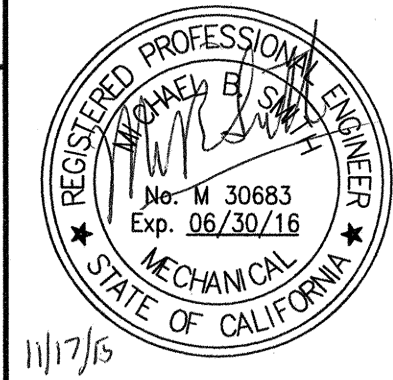
LOCATION NO. 10 - VAN NESS AVENUE BETWEEN JACKSON STREET AND PACIFIC AVENUE



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REFERENCES
 GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.
 AWSS DWG NO. 58



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING				
SECTION MANAGER	11/8/15	DRAWN BY	MARTIN 11/2015	
DEPUTY DIVISION MANAGER	11/20/15	DESIGNED BY	SMITH 11/2015	
DIVISION MANAGER, DE.	11/17/15	CHECKED BY	CHEE 11/2015	
NO.	DATE	DESCRIPTION	BY	APP'D
REVISIONS				

SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
 WATER ENTERPRISE
 CITY DISTRIBUTION DIVISION

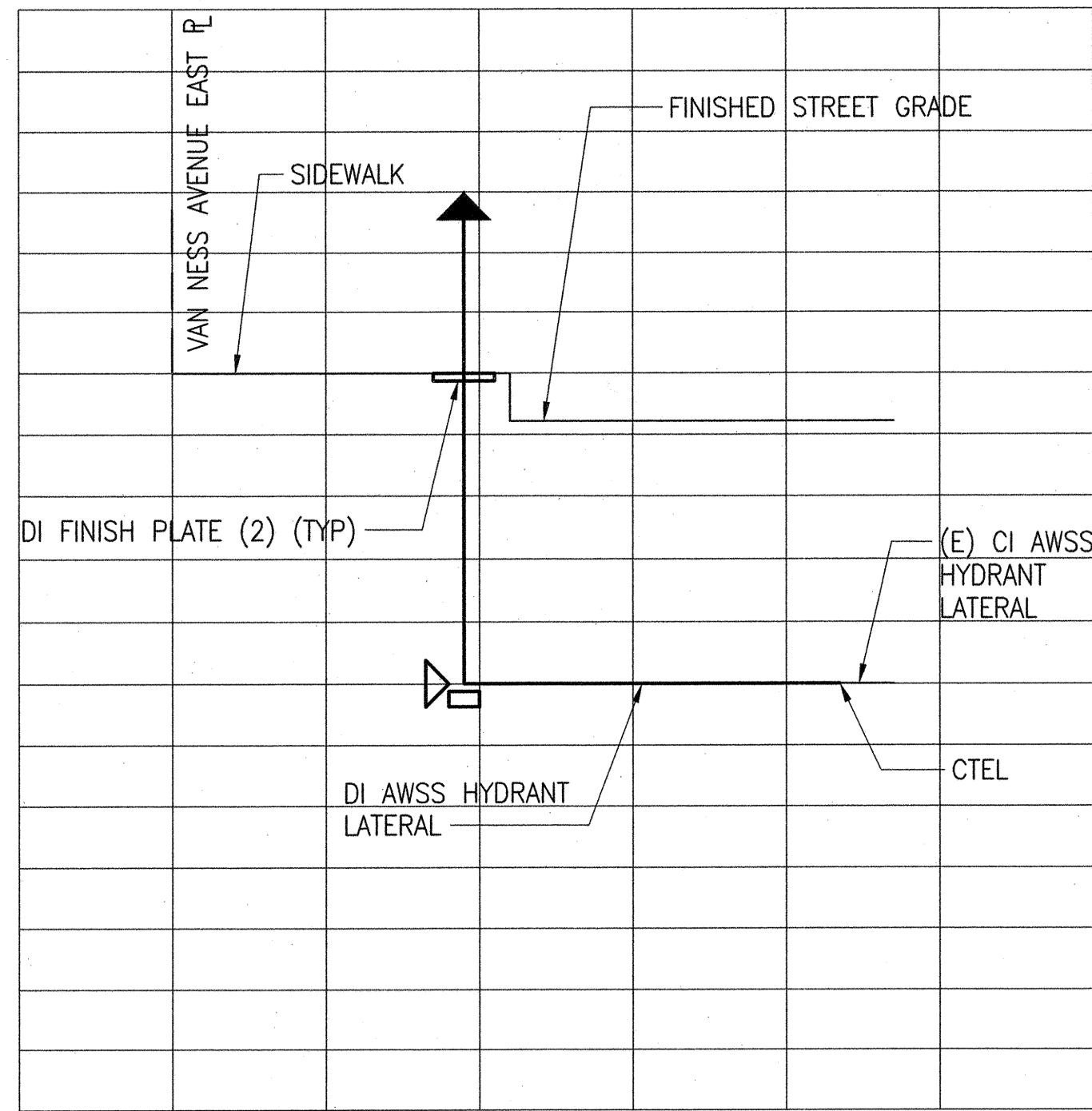
**MUNI BUS RAPID TRANSIT SYSTEM
 VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT**

**AUXILIARY WATER SUPPLY SYSTEM WORK
 LOCATION NO. 9
 NEW WORK - PLAN**

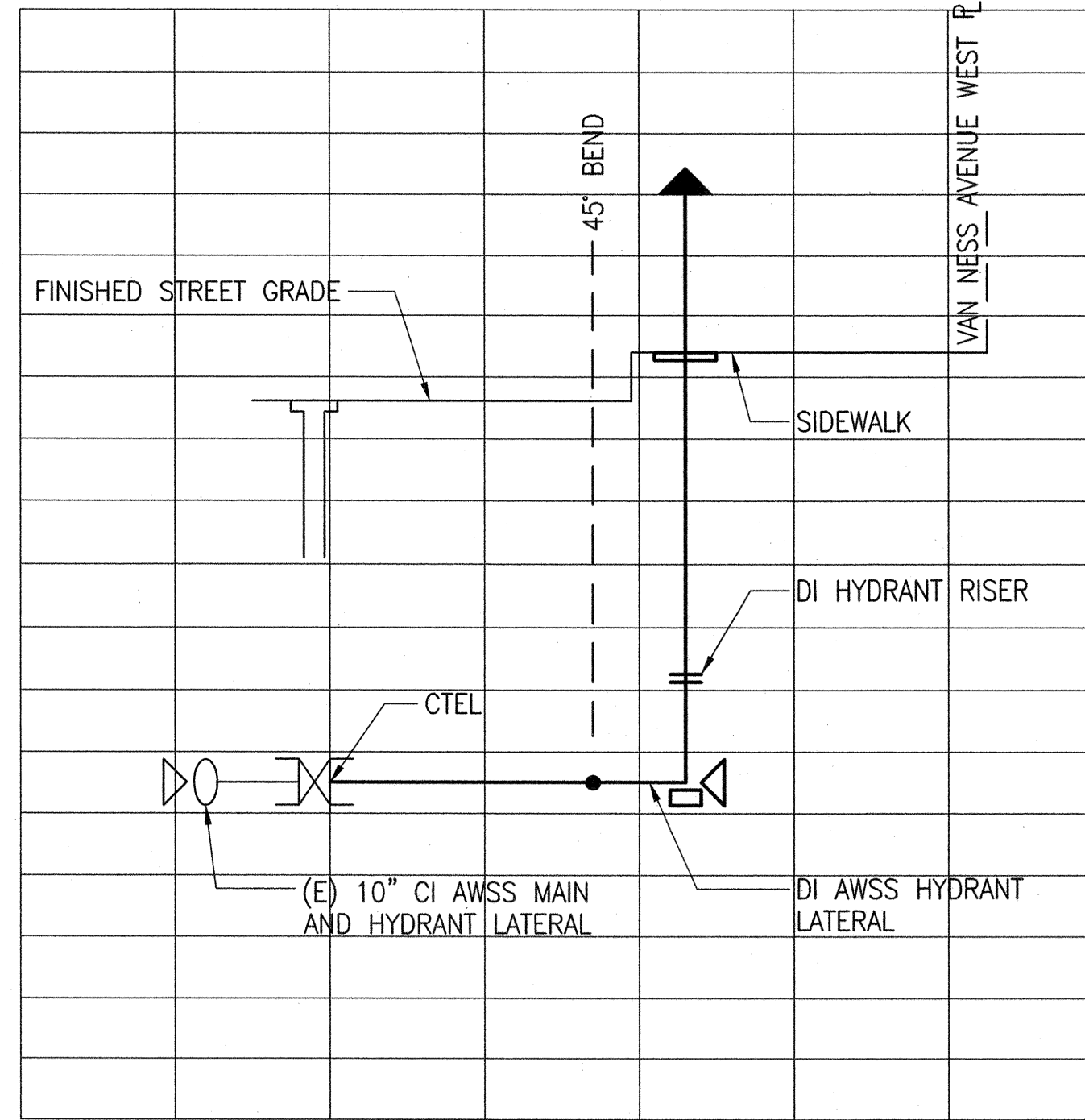
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION	SCALE 1"=20'-0"
PLAN NO. MA-17	DRAWING/FILE NO. 102,776	REVISION NO. 0

SDFPW JOB ORDER NO. 21061

PLOT: EXTENTS
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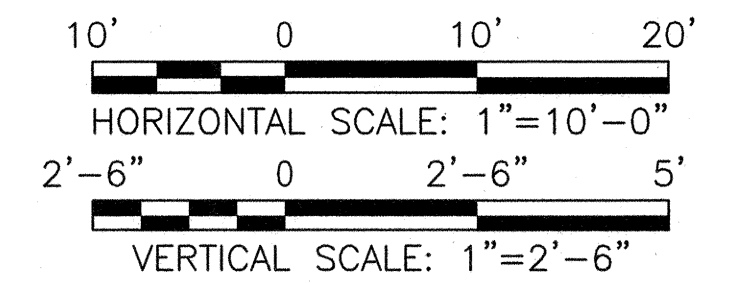
LOCATION NO. 2 HYDRANT LATERAL PROFILE
(LOOKING SOUTH ON VAN NESS AVENUE SOUTH OF GOLDEN GATE AVENUE)
SCALE: HORIZ 1" = 10'-0"
VERT 1" = 2'-6"



LOCATION NO. 3 HYDRANT LATERAL PROFILE
(LOOKING SOUTH ON VAN NESS AVENUE AT TURK STREET)
SCALE: HORIZ 1" = 10'-0"
VERT 1" = 2'-6"

NOTES:

- REFER TO THE FOLLOWING DWGS FOR NEW WORK PLANS AND ITEM LISTS:
LOCATION NO. 2 MA-07
LOCATION NO. 3 MA-08
- NOT ALL FITTINGS ARE SHOWN. REFER TO RESPECTIVE NEW WORK LOCATION PLAN DWGS.
- REFER TO AWSS STANDARD DWGS IN THE CONTRACT PACKAGE FOR TYPICAL HIGH-PRESSURE HYDRANT LAYOUT AND INSTALLATION DETAILS.



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REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.

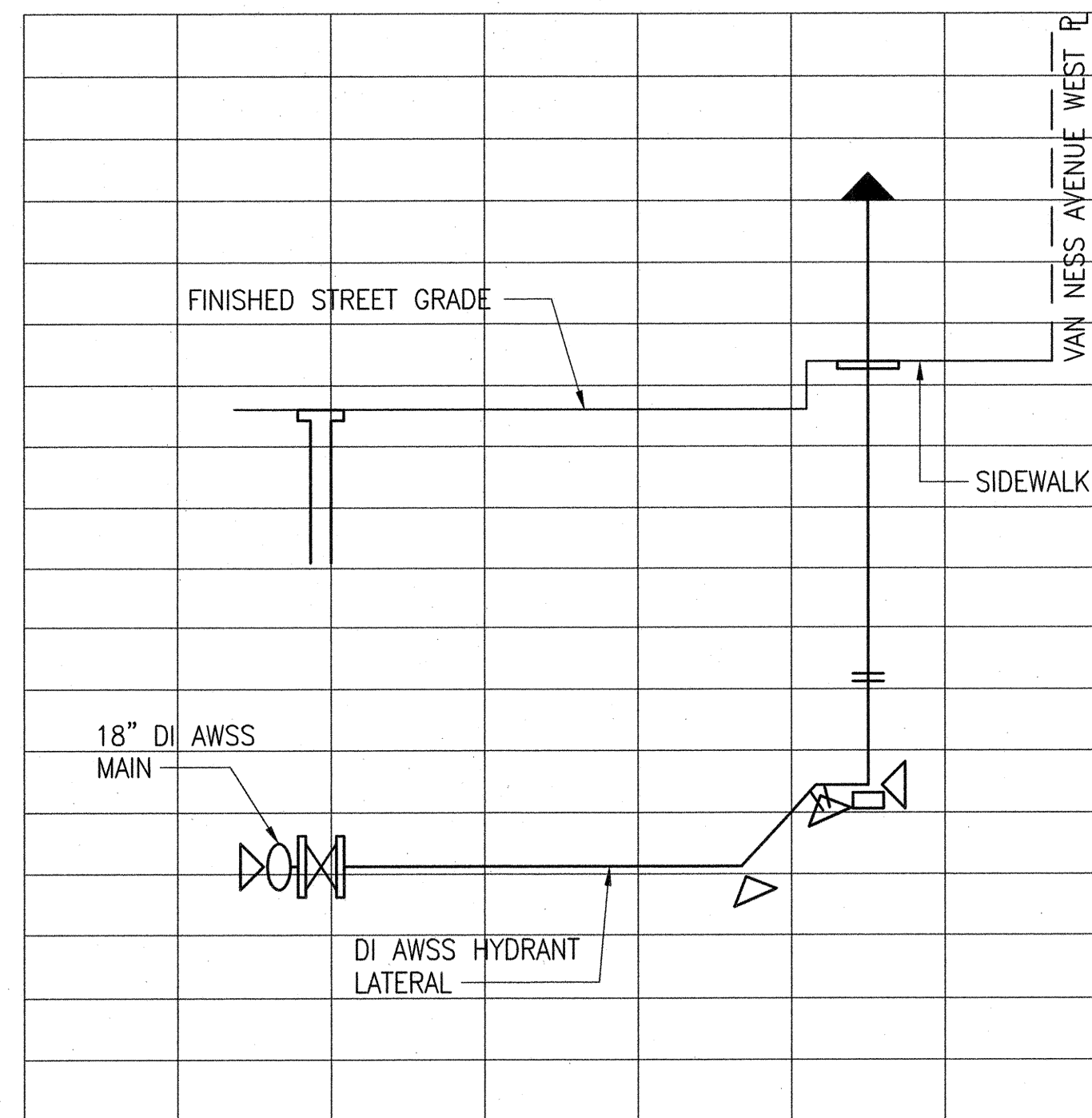


CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER 11/18/15	DRAWN AH/M MARTIN 11/2015	DESIGNED SMITH 11/2015	CHECKED M CHEE 11/2015
DEPUTY DIVISION MANAGER	11/20/15		
DIVISION MANAGER/DE			
NO.	DATE	DESCRIPTION	BY APPR'D
REVISIONS			

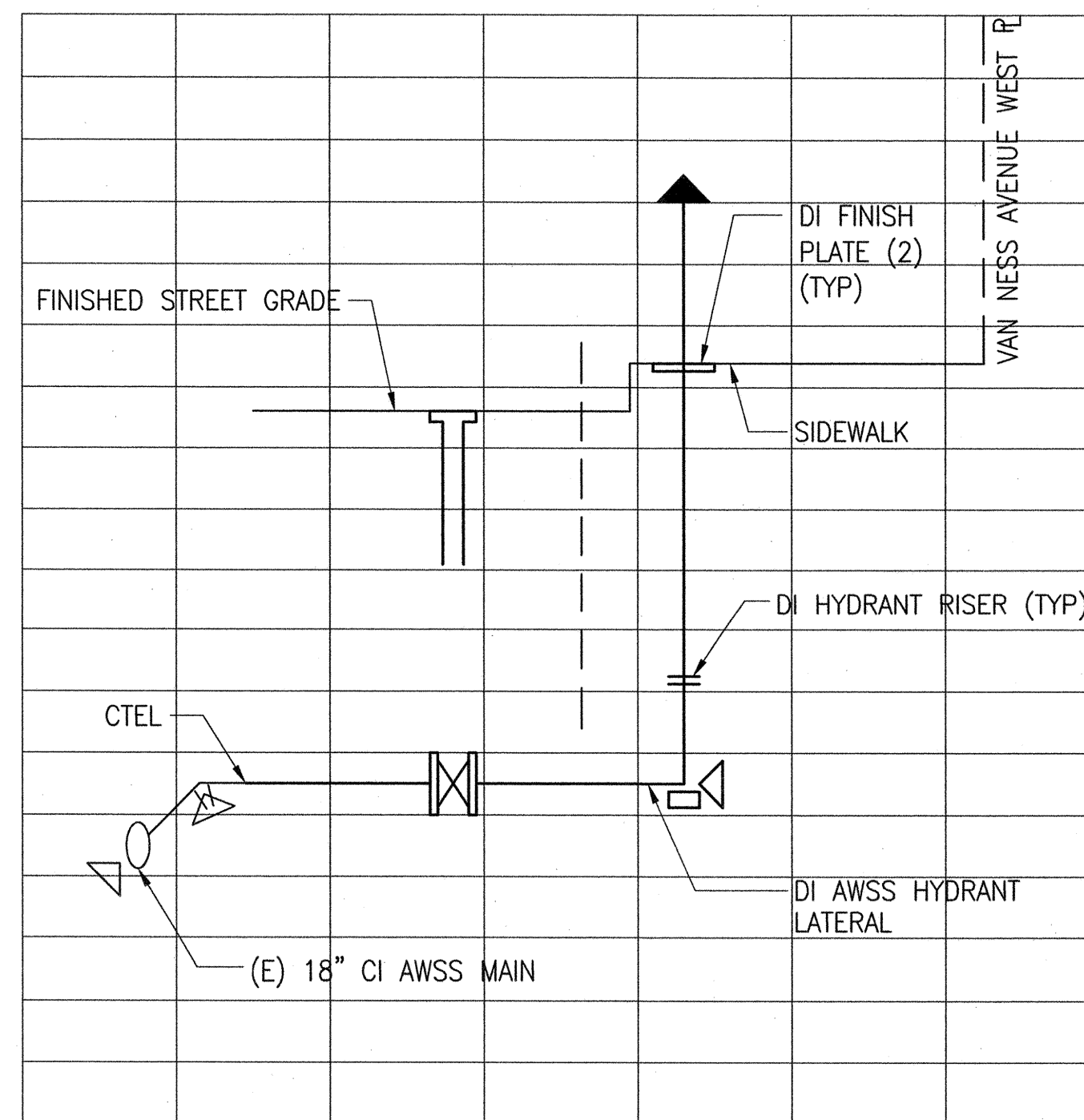
SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK HYDRANT LATERAL PROFILES I			
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION	SCALE AS SHOWN	DATE 11/2015
PLAN NO. MA-19	DRAWING/FILE NO. 102,778	REVISION NO. 0	



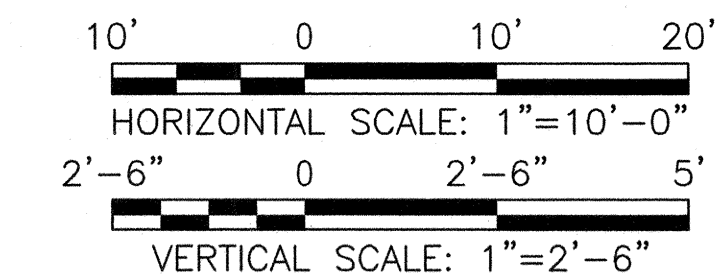
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BORDER:
22,34
COLOR: No.
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YELLOW 0.20MM
GREEN 0.25MM
CYAN 0.40MM
BLUE 0.50MM
MAGENTA 0.20MM
WHITE 0.35MM
GRAY 0.15MM
9 0.15MM
10 1.00MM
100 0.50MM
210 0.50MM



LOCATION NO. 5 HYDRANT LATERAL PROFILE
(LOOKING SOUTH ON VAN NESS AVENUE AT GEARY STREET)
SCALE: HORIZ 1" = 10'-0"
VERT 1" = 2'-6"



LOCATION NO. 8 HYDRANT LATERAL PROFILE
(LOOKING SOUTH ON VAN NESS AVENUE AT PINE STREET)
SCALE: HORIZ 1" = 10'-0"
VERT 1" = 2'-6"



NOTES:

- REFER TO THE FOLLOWING DWGS FOR NEW WORK PLANS AND ITEM LISTS:
LOCATION NO. 5 MA-11
LOCATION NO. 8 MA-15
- NOT ALL FITTINGS ARE SHOWN. REFER TO RESPECTIVE NEW WORK LOCATION PLAN DWGS.
- REFER TO AWSS STANDARD DWGS IN THE CONTRACT PACKAGE FOR TYPICAL HIGH-PRESSURE HYDRANT LAYOUT AND INSTALLATION DETAILS.

REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.



CITY AND COUNTY OF SAN FRANCISCO		SAN FRANCISCO PUBLIC WORKS	
DESIGN AND ENGINEERING		DESIGN AND ENGINEERING	
SECTION MANAGER	01/18/15	DRAWN	AH/M MARTIN 11/2015
DEPUTY DIVISION MANAGER	11/20/15	DESIGNED	M SMITH 11/2015
DIVISION MANAGER	11/20/15	CHECKED	M CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

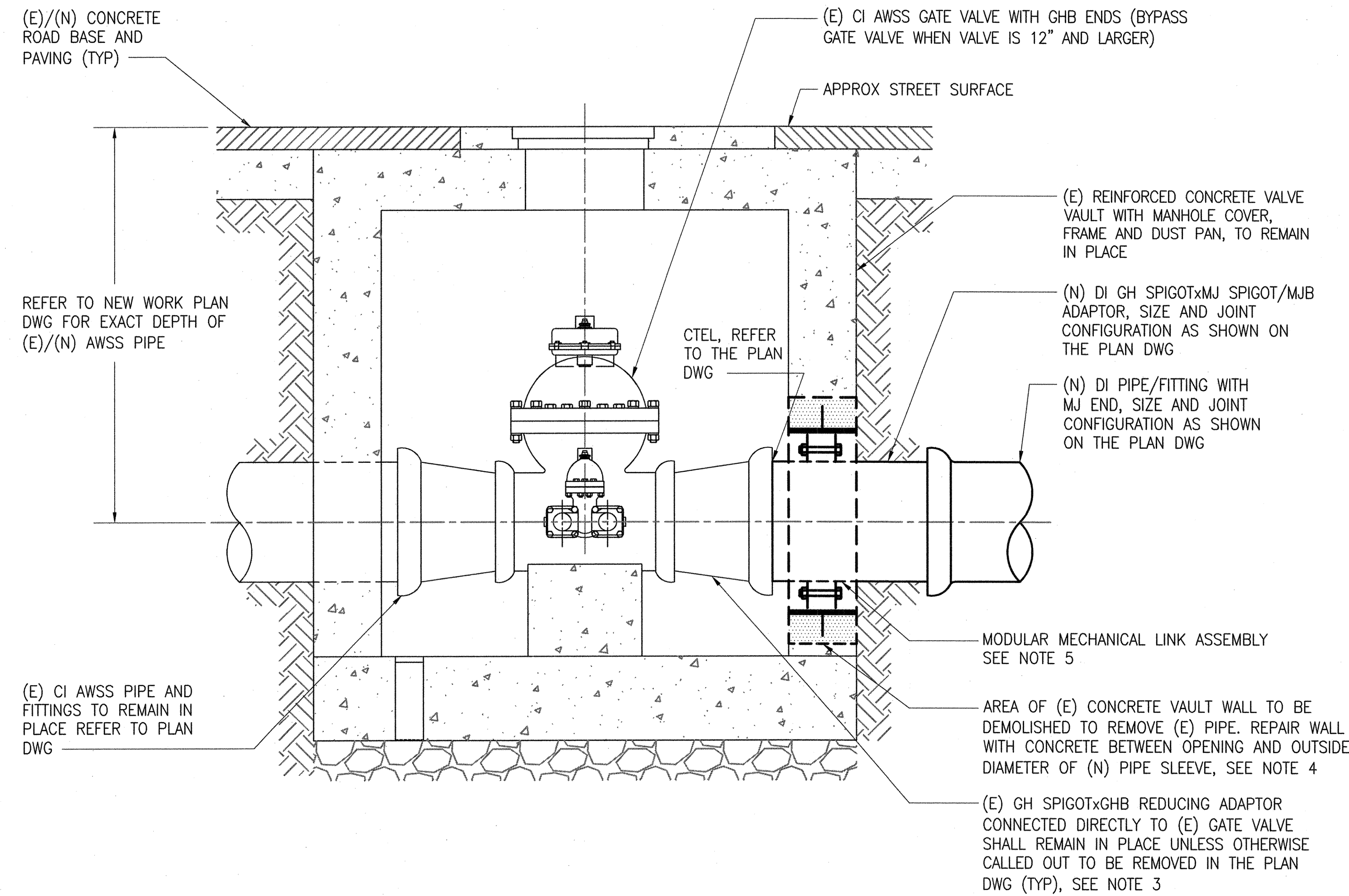
SFMTA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO	
PUBLIC UTILITIES COMMISSION	
WATER ENTERPRISE	
CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM	
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK	
HYDRANT LATERAL PROFILES II	
APPROVED	APPROVED
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION
SCALE	AS SHOWN
DATE	11/2015
PLAN NO.	MA-20
DRAWING/FILE NO.	102,779
REVISION NO.	0

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FILE NAME: \\2106J_VANNESS_BRT_MISSION_LOMBARD\2_Design\Working_Drawings\EME\AWSS\Current\2106J_MH-21.dwg

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100 0.50MM
210 0.50MM



**SECTION THROUGH EXISTING VALVE VAULT
(NO EXISTING TIE RODS ACROSS GATE VALVE)**

REPAIR OF EXISTING AWSS GATE VALVE VAULT DETAIL

NOTES:

1. REFER TO THE PLAN DWGS FOR VERTICAL AND HORIZONTAL PIPE ALIGNMENT AND (E)/(N) PIPE/FITTING JOINT CONFIGURATIONS.
2. THE CONTRACTOR SHALL RESTORE THE ASPHALT PAVING AND CONCRETE ROAD BASE PER CITY REQUIREMENTS. REFER TO THE GENERAL NOTES ON MA-01.
3. REFER TO THE PLANS DWGS AND FIELD VERIFY LAYOUT OF (E)/(N) FITTINGS AND PIPES. DETAIL IS TYPICAL FOR (E) GENERAL VALVE VAULT PIPING LAYOUT.
4. PRIOR TO DEMOLITION OF VAULT WALL TO FORM AN OPENING TO REMOVE THE (E) PIPE/FITTING AND TO F/I THE PIPE SLEEVE WITH WELDED SEEP RING, THE CONTRACTOR SHALL MARK THE EXTENT OF DEMOLITION FOR APPROVAL BY THE CITY REPRESENTATIVE. ANY (E) REBAR NOT INTERFERING WITH THE INSTALLATION OF THE PIPE SLEEVE SHALL REMAIN IN PLACE. FORM WALL PRIOR TO POURING CONCRETE TO REPAIR AREA BETWEEN (E) WALL AND PIPE SLEEVE.
5. THE CONTRACTOR SHALL F/I MODULAR MECHANICAL LINK SEAL ASSEMBLY WITH TYPE 316 STAINLESS STEEL NUTS, BOLTS, WASHERS, BETWEEN THE PIPE/FITTING AND PIPE SLEEVE AS REQUIRED TO FORM A WATERTIGHT SEAL WHEN TIE RODS ARE NOT SHOWN ON THE PLAN DWG TO BE FURNISHED AND INSTALLED, OR WHEN A FITTING DOES NOT PASS THROUGH THE WALL TO BE REPAIRED.
6. REFER TO DWG MA-22 FOR (E) VALVE VAULT WHERE THE (E) GATE VALVE LAYOUT INCLUDED STEEL TIE RODS INSTALLED EITHER TO THE ADAPTOR(S) OR ACROSS THE GATE VALVE AND THROUGH THE (E) VALVE VAULT WALLS.

REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC. USED

GATE BOOK PAGES
NO.



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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING			
SECTION MANAGER 11/18/15	DESIGNED M. SMITH 11/20/15	CHECKED M. CHEE 11/20/15	DATE 11/20/15
DEPUTY DIVISION MANAGER	DIVISION MANAGER, JR.		
NO.	DATE	DESCRIPTION	BY APPR'D
REVISIONS			

SFMTA CONTRACT NO. 1289

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
WATER ENTERPRISE
CITY DISTRIBUTION DIVISION

**MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT**

**AUXILIARY WATER SUPPLY SYSTEM WORK
DETAILS I**

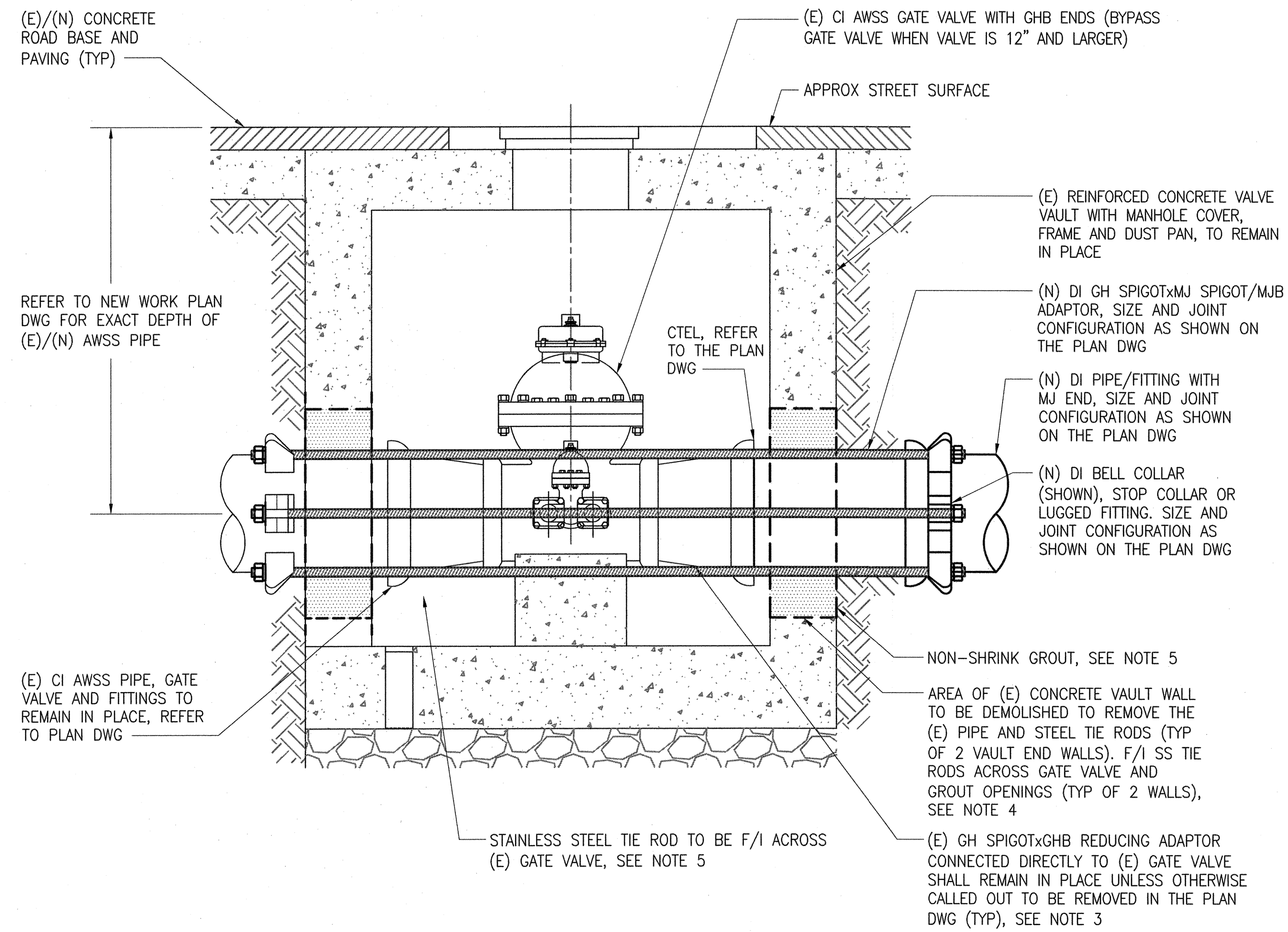
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PLAN NO. MA-21	DRAWING/FILE NO. 102,780	DATE 11/20/15
		REVISION NO. 0

SFPW JOB ORDER NO. 2106J

FILE NAME: \\21061_VANNESS_BRT_MISSION_LOMBARD\2_Design\Working_Drawings\EME\AWSS\Current\21061_MA-22.dwg

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MAGENTA 0.20MM
WHITE 0.35MM
GRAY 0.15MM
9 0.15MM
10 1.00MM
100 0.50MM
210 0.50MM



SECTION THROUGH EXISTING VALVE VAULT WITH THROUGH VALVE VAULT TIE RODS

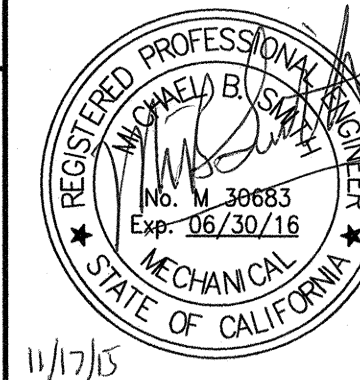
REPAIR OF EXISTING AWSS GATE VALVE VAULT WITH TIE RODS DETAIL

NOTES:

1. REFER TO THE PLAN DWGS FOR VERTICAL AND HORIZONTAL PIPE ALIGNMENT AND (E)/(N) PIPE/FITTING JOINT CONFIGURATIONS.
2. THE CONTRACTOR SHALL RESTORE THE ASPHALT PAVING AND CONCRETE ROAD BASE PER CITY REQUIREMENTS. REFER TO THE GENERAL NOTES ON MA-01.
3. REFER TO THE PLANS DWGS AND FIELD VERIFY LAYOUT OF (E)/(N) FITTINGS AND PIPES. DETAIL IS TYPICAL FOR (E) GENERAL VALVE VAULT PIPING LAYOUT.
4. PRIOR TO DEMOLITION OF VAULT WALLS TO FORM OPENINGS TO REMOVE THE (E) PIPE/FITTING AND STEEL TIE RODS, THE CONTRACTOR SHALL MARK THE EXTENT OF DEMOLITION FOR APPROVAL BY THE CITY REPRESENTATIVE. ANY (E) REBAR NOT INTERFERING WITH THE INSTALLATION OF THE NEW PIPE SHALL REMAIN IN PLACE.
5. THE CONTRACTOR SHALL F/I THE STAINLESS STEEL TIE RODS FROM THE (N) FITTING WITH LUGS AS SHOWN ON THE PLAN DRAWING, AND ACROSS THE (E) GATE VALVE TO THE ORIGINAL LUGGED LOCATION WHERE THE (E) STEEL TIE RODS WERE REMOVED FROM. AFTER INSTALLATION OF THE STAINLESS STEEL TIE RODS AND HYDROSTATIC TEST, THE CONTRACTOR SHALL SEAL THE WALL OPENINGS WITH NON-SHRINK GROUT FORMED FLUSH WITH THE VALVE VAULT WALLS.
6. REFER TO DWG MA-21 FOR VALVE VAULTS WHERE NO (E) STEEL TIE RODS WERE INSTALLED EITHER ACROSS THE GATE VALVE AND/OR THROUGH THE CONCRETE VALVE VAULT WALLS.
7. THE (E) TIE RODS FOR 12" AND LARGER GATE VALVES ARE TYPICALLY OFFSET 30" FROM THE STANDARD INSTALLATION CONFIGURATION TO ACCOMMODATE THE GATE VALVE BONNET AND CONCRETE VALVE SUPPORT. THE (N) STAINLESS STEEL TIE RODS SHALL MATCH THE CONFIGURATION OF THE (E) TIE RODS THAT WERE REMOVED.

REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING	
SECTION NUMBER 11/18/15	DRAWN AH/M MARTIN 11/2015
DEPUTY DIVISION MANAGER 11/20/15	DESIGNED SM SMITH 11/2015
DIVISION MANAGER	CHECKED M CHEE 11/2015
NO.	DATE
REVISIONS	

SFM TA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK DETAILS II	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE MA-22	DATE 11/2015
PLAN NO. 102,781	REVISION NO. 0

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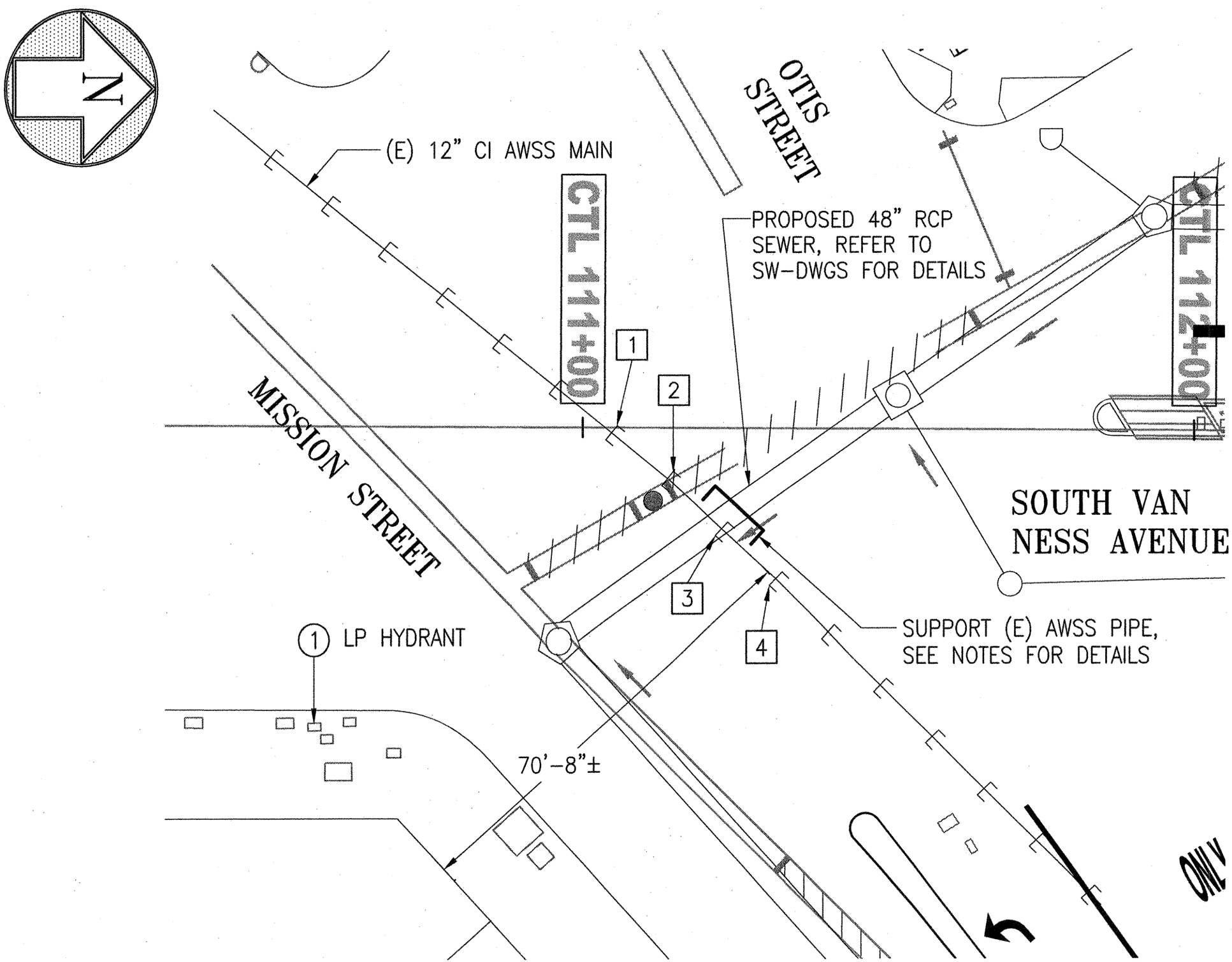
SFPW JOB ORDER NO. 21061

SHEET LEGEND (DWGS MA-23 THROUGH MA-35):

- ① AWSS SETTLEMENT REFERENCE POINT AND NUMBER
- AWSS MONITORING POINT AND NUMBER
- ▭ SUPPORTING OF (E) AWSS FACILITIES, SEE NOTE 5 ON THIS SHEET

SHEET NOTES DWGS MA-23 THROUGH MA-35):

1. THE CONTRACTOR SHALL REFER TO THE REFERENCE DRAWING(S) FOR LOCATION(S) OF AWSS HYDRANTS, GATE VALVES AND PIPE BELLS FOR LOCATING THE SETTLEMENT REFERENCE AND MONITORING POINTS. THE LOCATIONS SHOWN ON THIS DRAWING ARE SCHEMATIC, AND SHALL REQUIRE THE CONTRACTOR TO EXCAVATE AS REQUIRED TO LOCATE AND FIELD VERIFY THE PIPE BELLS TO BE MONITORED.
2. THE CITY DOES NOT GUARANTEE THE ACCURACY OF THE REFERENCE DRAWING AND SHALL NOT BE RESPONSIBLE FOR ADDITIONAL EXCAVATIONS SHOULD THEY BE REQUIRED FOR LOCATING THE PIPE BELLS.
3. AS-BUILT/ORIGINAL CONTRACT REFERENCE DRAWINGS ARE AVAILABLE FROM SFPDW/DED MECHANICAL SECTION, 30 VAN NESS AVENUE 5TH FLOOR, SAN FRANCISCO, CA; AND/OR SFPDW/CDD, 1990 NEWCOMB AVENUE, SAN FRANCISCO, CA
4. REFER TO RELATED DRAWINGS IN THIS CONTRACT FOR EXISTING AND PROPOSED UTILITY LOCATIONS.
5. REFER TO DWG MA-03 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES. REFER TO SFPDW/CDD'S SPECIFICATION SECTION 02712-PROTECTION OF EXISTING WATER AND AWSS FACILITIES, FOR CRITERIA FOR SUPPORTING (E) AWSS OVER EXCAVATION WORK AT EACH SEWER/UTILITY CROSSING. NOT ALL LOCATIONS OF (E) AWSS PIPES REQUIRED TO BE SUPPORTED ARE SHOWN ON THE PLANS AS SHOWN ON DWGS MA-23 THROUGH MA-25. THE REQUIREMENTS OF SPECIFICATION SECTION 02712-PROTECTION OF EXISTING WATER AND AWSS FACILITIES, SHALL PREVAIL OVER LOCATIONS TO BE SUPPORTED AS SHOWN ON THE PLAN DWGS, AT NO ADDITIONAL COST TO THE CITY.
6. THE "SETTLEMENT MONITORING" DETAILS AS SHOWN IN THE SFPDW/CDD'S SPECIFICATION SECTION 02712 - PROTECTION OF EXISTING WATER AND AWSS FACILITIES, SHALL SUPERCEDE DETAILS AS SHOWN ON THE ATTACHED TEN (10) STANDARD AWSS DWGS.
7. WORK ON THESE SHEETS INCLUDES ONLY SURVEY MONITORING AND SUPPORTING OF (E) AWSS FACILITIES. THE CONTRACTOR SHALL REFER TO RELATED AWSS DWGS FOR R/C AND/OR R/S EXISTING AWSS FACILITIES AND F/I OF NEW AWSS FACILITIES THAT ARE PART OF THE CONTRACT WORK.
8. EXISTING PIPING ELEVATIONS FROM FINISHED GRADE TO CENTERLINE OF PIPE PER RECORD DWGS AS PROVIDED BY THE SFPUC.



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION A (SOUTH VAN NESS AVENUE AND MISSION STREET)

DWG MA-28

- LOCATION J - VAN NESS AVENUE AT O'FARRELL STREET:
(E) 10" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 7'-0"±
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 7'-0"±
- LOCATION K - VAN NESS AVENUE AT GEARY STREET:
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 7'-5"±
(E) 18" CI AWSS MAIN AT PROPOSED 15" VCP SEWER: 8'-3"±

DWG MA-29

- LOCATION L - VAN NESS AVENUE AT POST STREET:
(E) 18" CI AWSS MAIN AT PROPOSED 18" VCP SEWER: 7'-1"±
- LOCATION M - VAN NESS AVENUE AT SUTTER STREET:
(E) 10" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 7'-6"±
(E) CI AWSS HYDRANT LATERAL PROPOSED 18" VCP SEWER: 7'-9"±
(E) 18" CI AWSS MAIN AT PROPOSED 18" VCP SEWER: 8'-0"±
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 7'-0"±

DWG MA-30

- LOCATION N - VAN NESS AVENUE AT BUSH STREET:
(E) 20" CI AWSS MAIN AT PROPOSED 18" VCP SEWER: 8'-1"±
(E) 12" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 7'-10"±
(E) CI AWSS HYDRANT LATERAL AT PROPOSED 10" VCP SEWER: 7'-8"±
- LOCATION O - VAN NESS AVENUE AT PINE STREET:
(E) 14" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 6'-4"±
(E) 18" CI AWSS MAIN AT PROPOSED 18" VCP SEWER: 8'-10"±

DWG MA-31

- LOCATION P - VAN NESS AVENUE AT CALIFORNIA STREET:
(E) 16" CI AWSS MAIN AT PROPOSED 12" HDPE SEWER IN STEEL CASING: 7'-6"±
(E) 16" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 7'-4"±
- LOCATION Q - VAN NESS AVENUE AT SACRAMENTO STREET:
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 6'-5"±
(E) 12" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 6'-6"±
(E) CI AWSS HYDRANT LATERAL AT PROPOSED 12" VCP SEWER: 7'-7"±
(E) 18" CI AWSS MAIN AT PROPOSED 24" VCP SEWER: 7'-7"±

DWG MA-32

- LOCATION R - VAN NESS AVENUE AT CLAY STREET:
(E) 18" CI AWSS MAIN AT PROPOSED 15" VCP SEWER: 7'-1"±
(E) 12" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 7'-3"±
- LOCATION S - VAN NESS AVENUE AT WASHINGTON STREET:
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 7'-6"±
(E) 18" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 7'-4"±

DWG MA-33

- LOCATION T - VAN NESS AVENUE AT PACIFIC AVENUE:
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER: 6'-1"±
(E) 12" CI AWSS MAIN AT PROPOSED 18" VCP SEWER: 6'-5"±
(E) 12" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 9'-0"±

DWG MA-34

- LOCATION V - VAN NESS AVENUE BETWEEN VALLEJO AND GREEN STREETS:
(E) 12" CI AWSS ON VAN NESS AVENUE AT VALLEJO STREET: 5'-2"±

DWG MA-35

- LOCATION W - VAN NESS AVENUE AT LOMBARD STREET:
(E) 12" CI AWSS ON VAN NESS AVENUE BETWEEN VALLEJO AND GREEN STREETS : 4'-9"± TO 5'-8"±
(E) 12" CI AWSS MAIN AT PROPOSED 10" VCP SEWER ON GREEN STREET: 5'-6"±

DWG MA-23

- LOCATION A - SOUTH VAN NESS AVENUE AT MISSION STREET:
(E) 12" CI AWSS MAIN AT PROPOSED 48" RCP SEWER: 6'-5"±

DWG MA-24

- LOCATION B - VAN NESS AVENUE AT MARKET STREET:
(E) 18" CI AWSS MAIN AT PROPOSED 34" HDPE SEWER IN STEEL CASING: 7'-8"±
(E) 18" CI AWSS MAIN AT PROPOSED 34" HDPE SEWER IN STEEL CASING: 3'-3"±
- LOCATION C - VAN NESS AVENUE AT FELL STREET:
(E) CI AWSS HYDRANT LATERAL AT PROPOSED 12" VCP SEWER: 6'-5"±

DWG MA-25

- LOCATION D - VAN NESS AVENUE AT HAYES STREET:
(E) 12" AWSS MAIN AT PROPOSED 10" VCP AND 12" HDPE SEWERS: 7'-4"±
- LOCATION E - VAN NESS AVENUE AT GROVE STREET:
(E) CI AWSS HYDRANT LATERAL AT PROPOSED 33" VCP SEWER: 7'-3"±
(E) 18" CI AWSS MAIN AT PROPOSED 15" VCP SEWER: 6'-6"±
(E) 18" CI AWSS MAIN AT PROPOSED 33" VCP SEWER: 7'-6"±

DWG MA-26

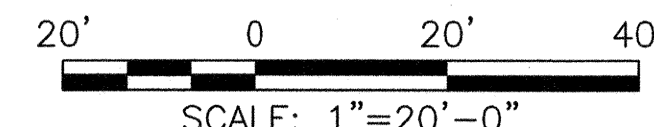
- LOCATION F - VAN NESS AVENUE, MID BLOCK BETWEEN GROVE AND MCALLISTER STREETS:
(E) 10" CI AWSS MAIN AT PROPOSED 12" VCP SEWER: 8'-1"±
- LOCATION G - VAN NESS AVENUE AT MCALLISTER STREET:
(E) 10" CI AWSS MAIN AT PROPOSED 36" VCP SEWER: 7'-3"±

DWG MA-27

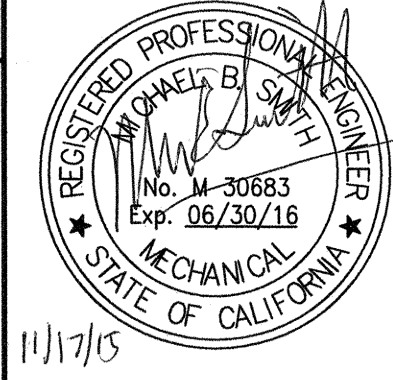
- LOCATION H - VAN NESS AVENUE AT GOLDEN GATE AVENUE:
(E) 10" CI AWSS MAIN ADJACENT TO PROPOSED 12" VCP SEWER AND MANHOLE STRUCTURES: 5'-0"± TO 5'-3"±

LOCATION I

- VAN NESS AVENUE AT ELLIS STREET:
(E) 18" CI AWSS MAIN AT PROPOSED 24" VCP SEWER: 9'-3"±



REFERENCES	
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED	
GATE BOOK PAGES NO.	
AWSS DWG NO. 383	



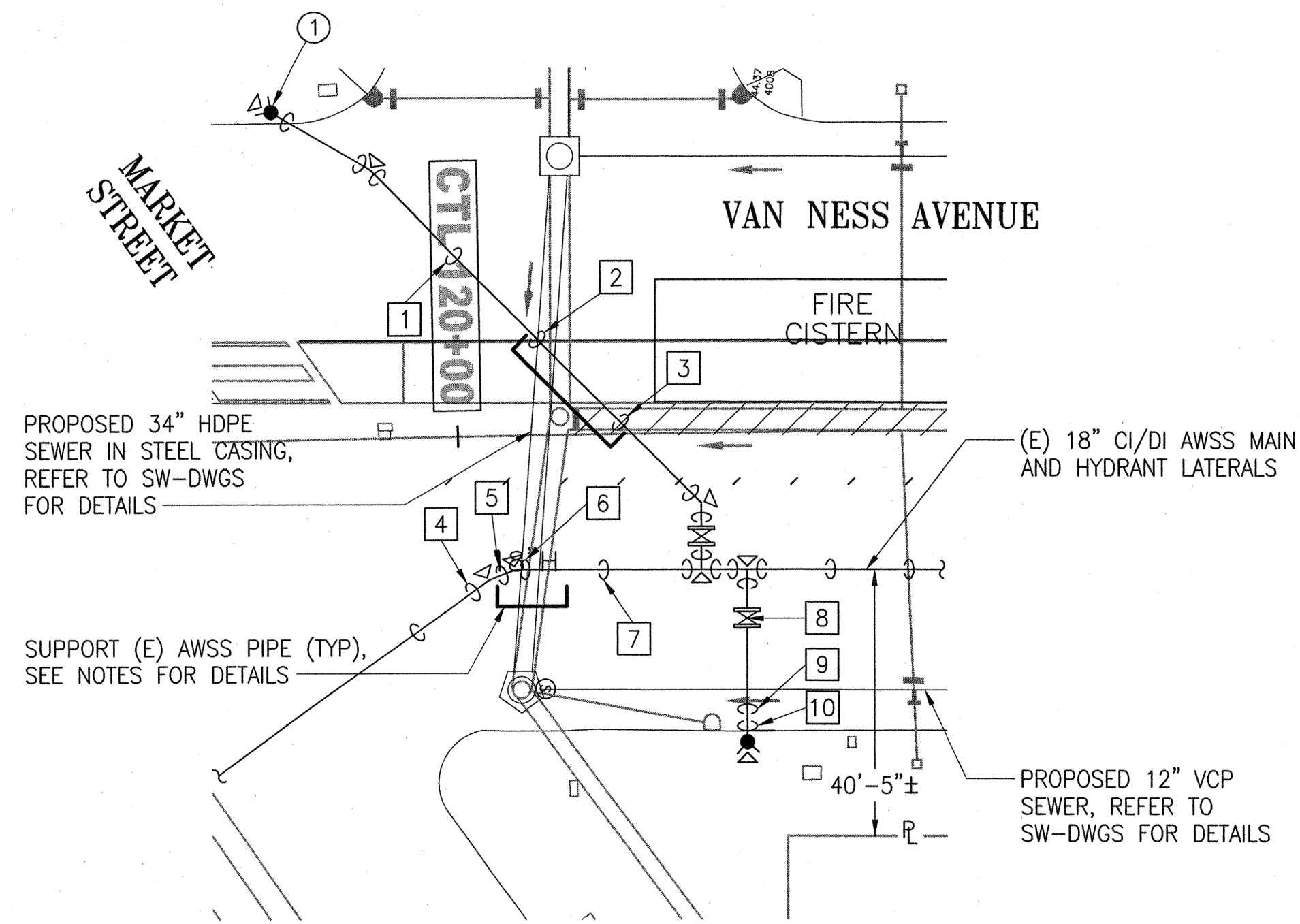
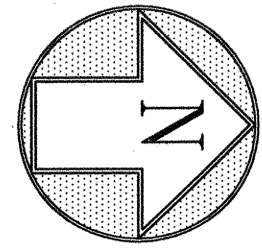
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DEPUTY DIVISION MANAGER	11/20/15	DESIGNED	SMITH 11/2015
DIVISION MANAGER	11/20/15	CHECKED	CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION A - SETTLEMENT MONITORING - NEW WORK - PLAN AND SHEET NOTES			
APPROVED	APPROVED	SCALE	
ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	DATE	11/2015
PLAN NO.	DRAWING/FILE NO.	REVISION NO.	
MA-23	102,782	0	

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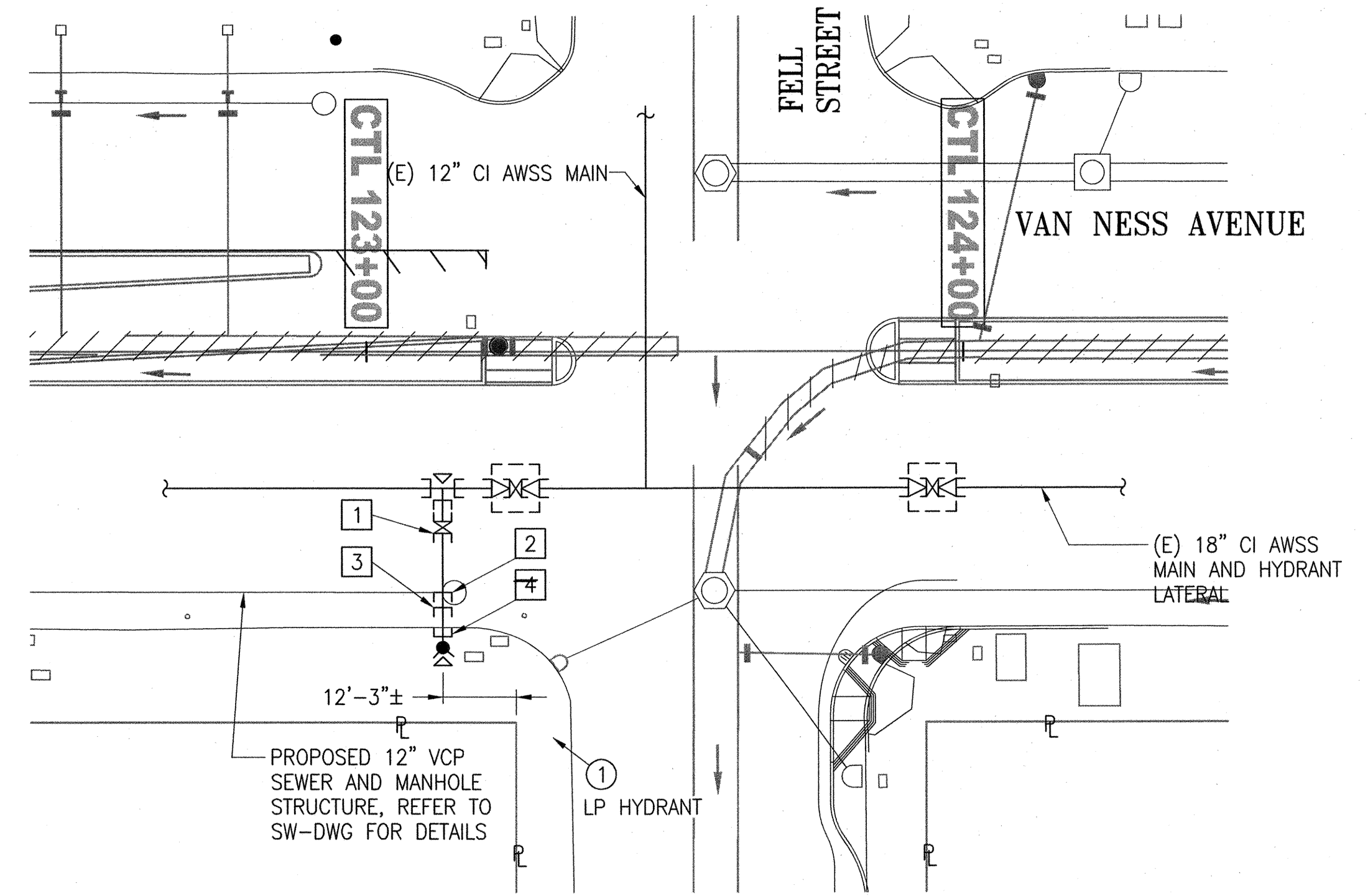
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SFPDW JOB ORDER NO. 21061



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION B (VAN NESS AVENUE AND MARKET STREET)



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION C (VAN NESS AVENUE AND FELL STREET)

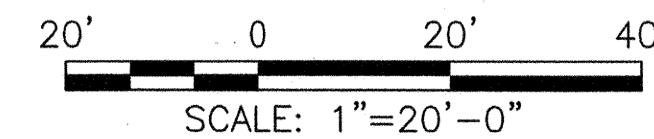
NOTES:

1. REFER TO DWG MA-23 FOR NOTES, LEGEND, AND ELEVATIONS OF (E) AWSS FACILITIES.

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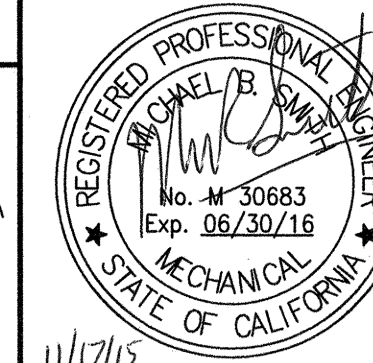
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REFERENCES
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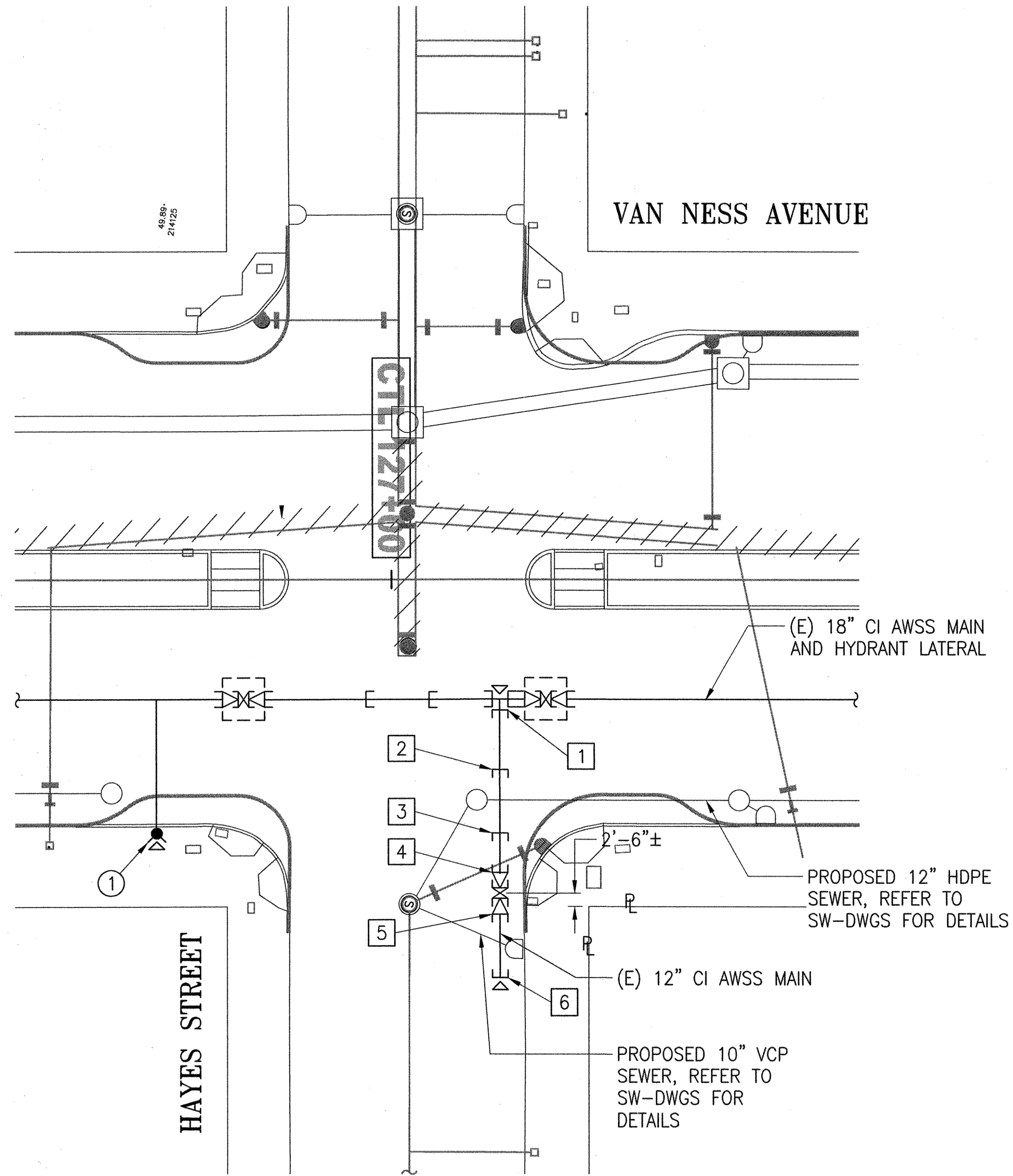
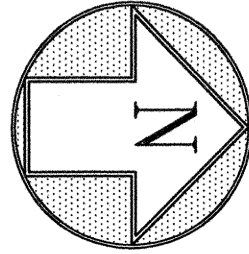
GATE BOOK PAGES
NO.
AWSS DWG NO. 52, 334A



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DEPUTY DIVISION MANAGER 11/20/15	DESIGNED SMITH 11/2015
DIVISION MANAGER DE 11/20/15	CHECKED M CHEE 11/2015
NO.	DATE
DESCRIPTION	
BY	APPR'D
REVISIONS	

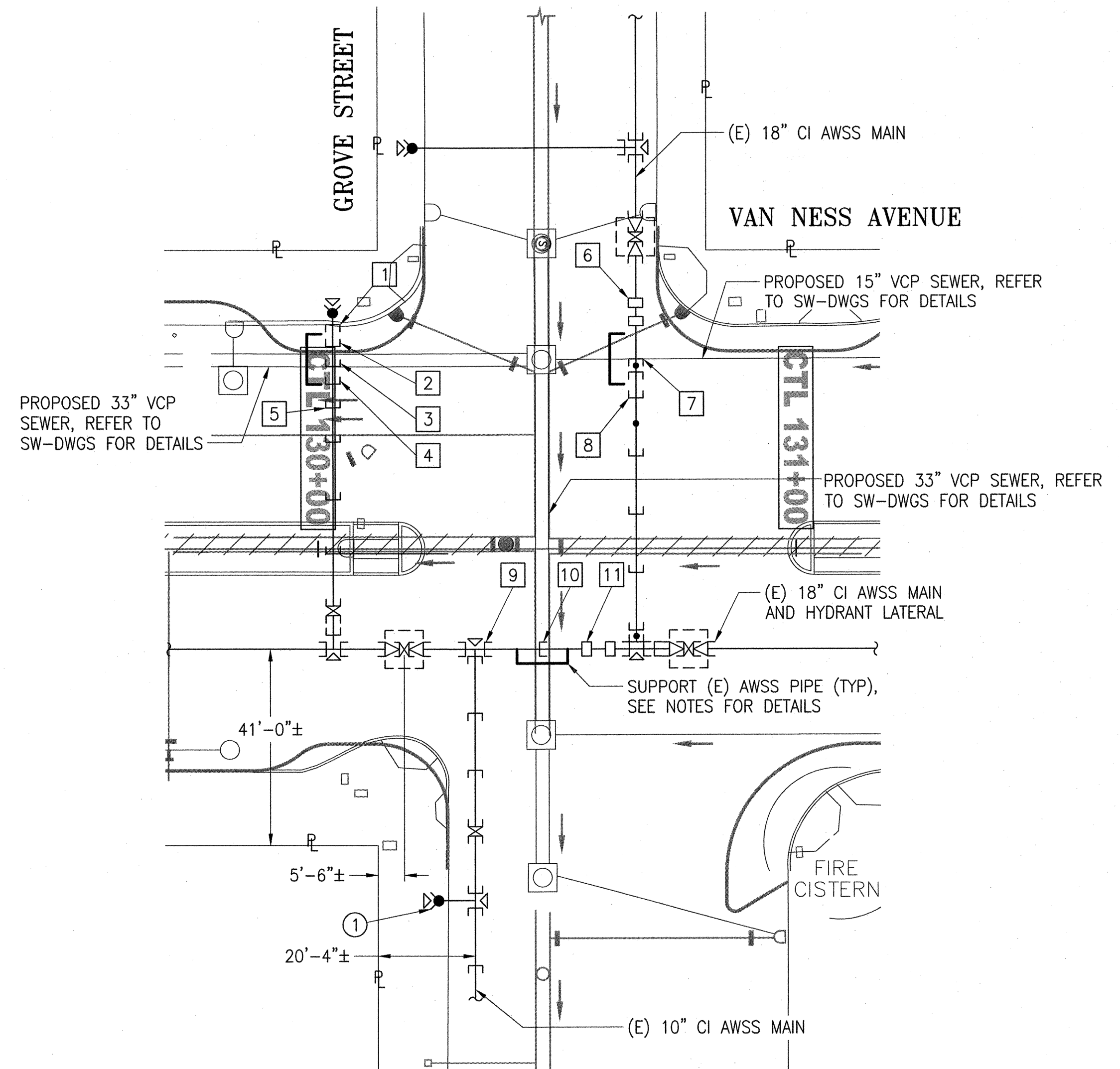
SFMTA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS B AND C - SETTLEMENT MONITORING - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-24	DRAWING/FILE NO. 102,783
REVISION NO.	0





SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION D (VAN NESS AVENUE AND HAYES STREET)



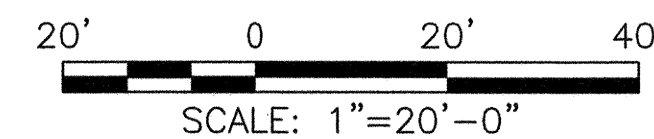
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LOCATION E (VAN NESS AVENUE AND GROVE STREET)

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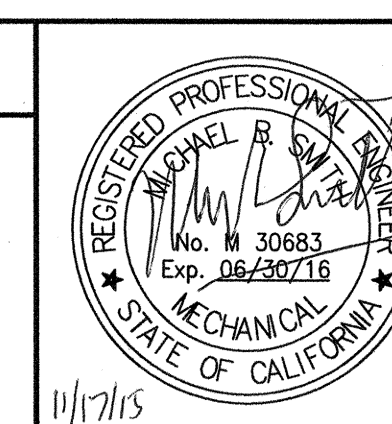
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REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

GATE BOOK PAGES NO.
AWSS DWG NOS.
52, 53, 480, 728



CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING	
SECTION MANAGER 11/18/15	DRAWN AH/M. MARTIN 11/2015
DEPUTY DIVISION MANAGER 11/20/15	DESIGNED SMITH 11/2015
DIVISION MANAGER DE 11/24/15	CHECKED M. CHEE 11/2015
NO.	DATE
DESCRIPTION	
BY	
APPR'D	
REVISIONS	

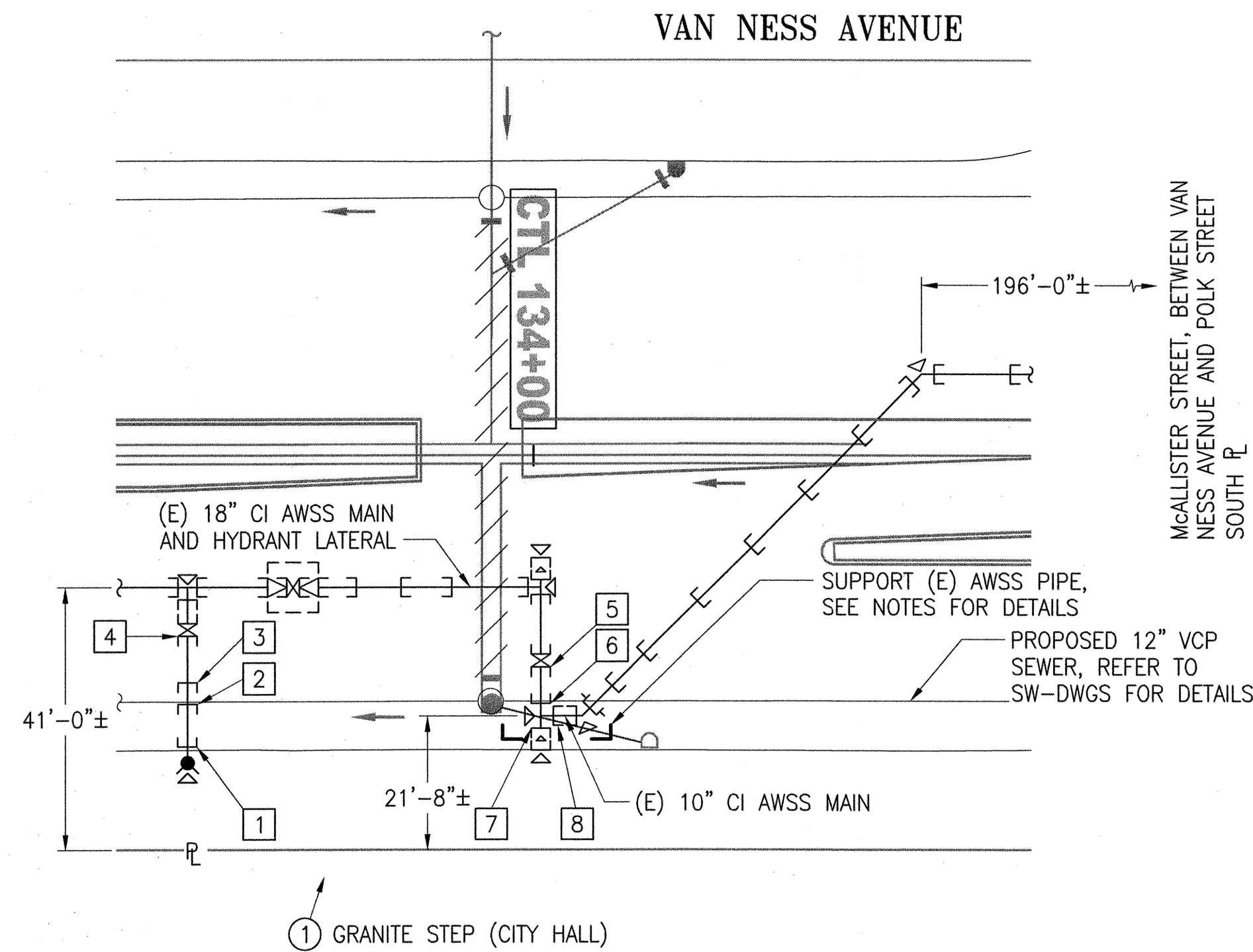
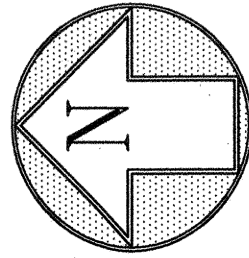
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MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS D AND E - SETTLEMENT MONITORING - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-25	REVISION NO. 102,784
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

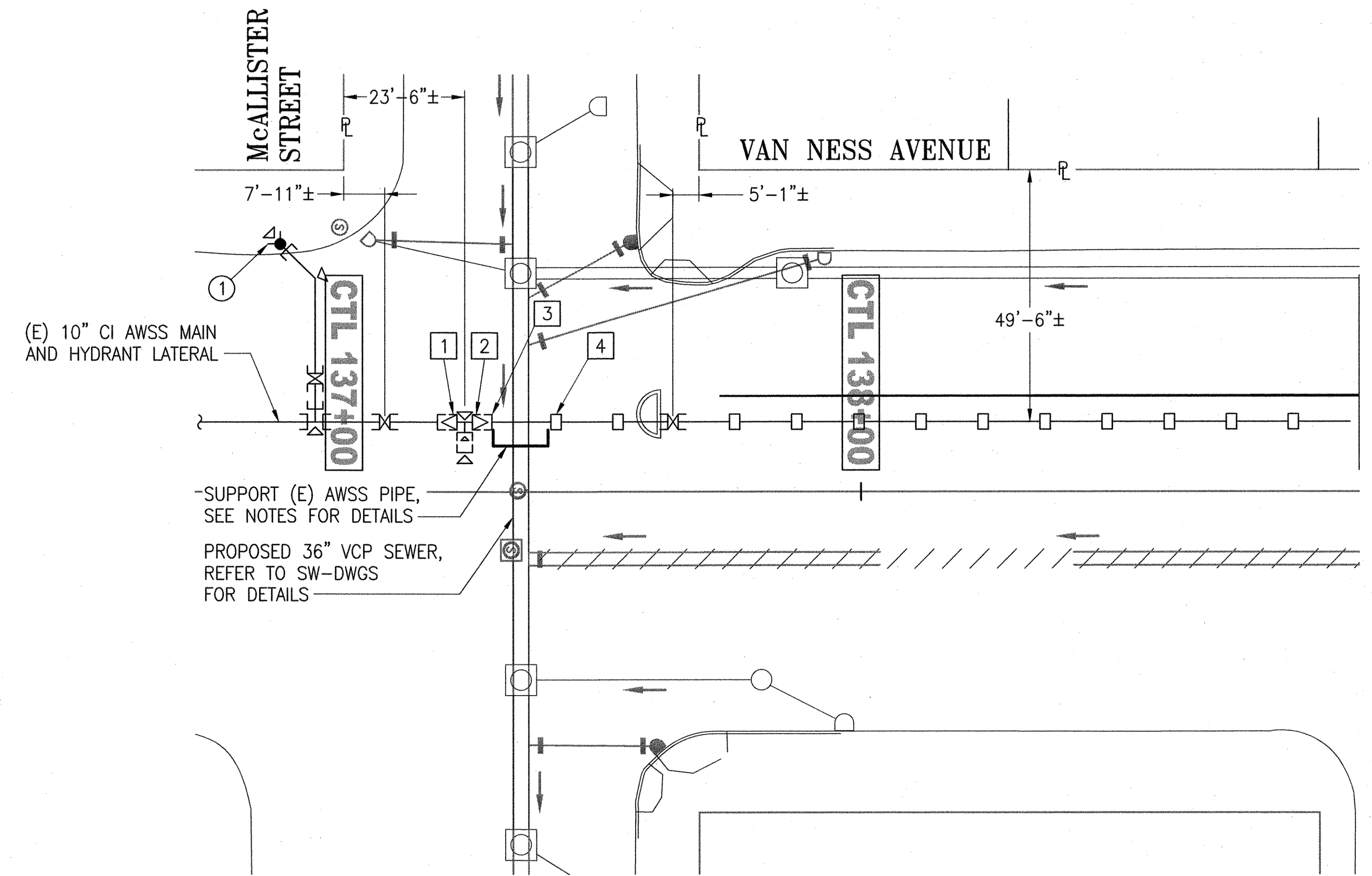


SFPW JOB ORDER NO. 21061



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION F (VAN NESS AVENUE BETWEEN GROVE AND McALLISTER STREETS)



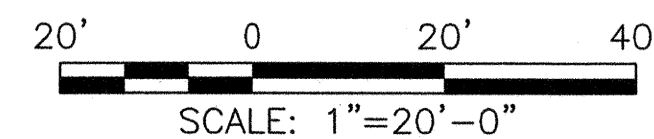
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LOCATION G (VAN NESS AVENUE AND McALLISTER STREET)

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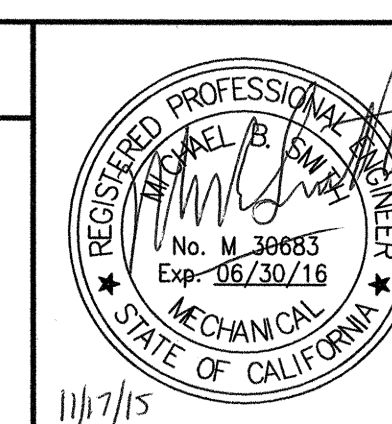
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GATE BOOK PAGES NO.	AWSS DWG NOS. 53, 54
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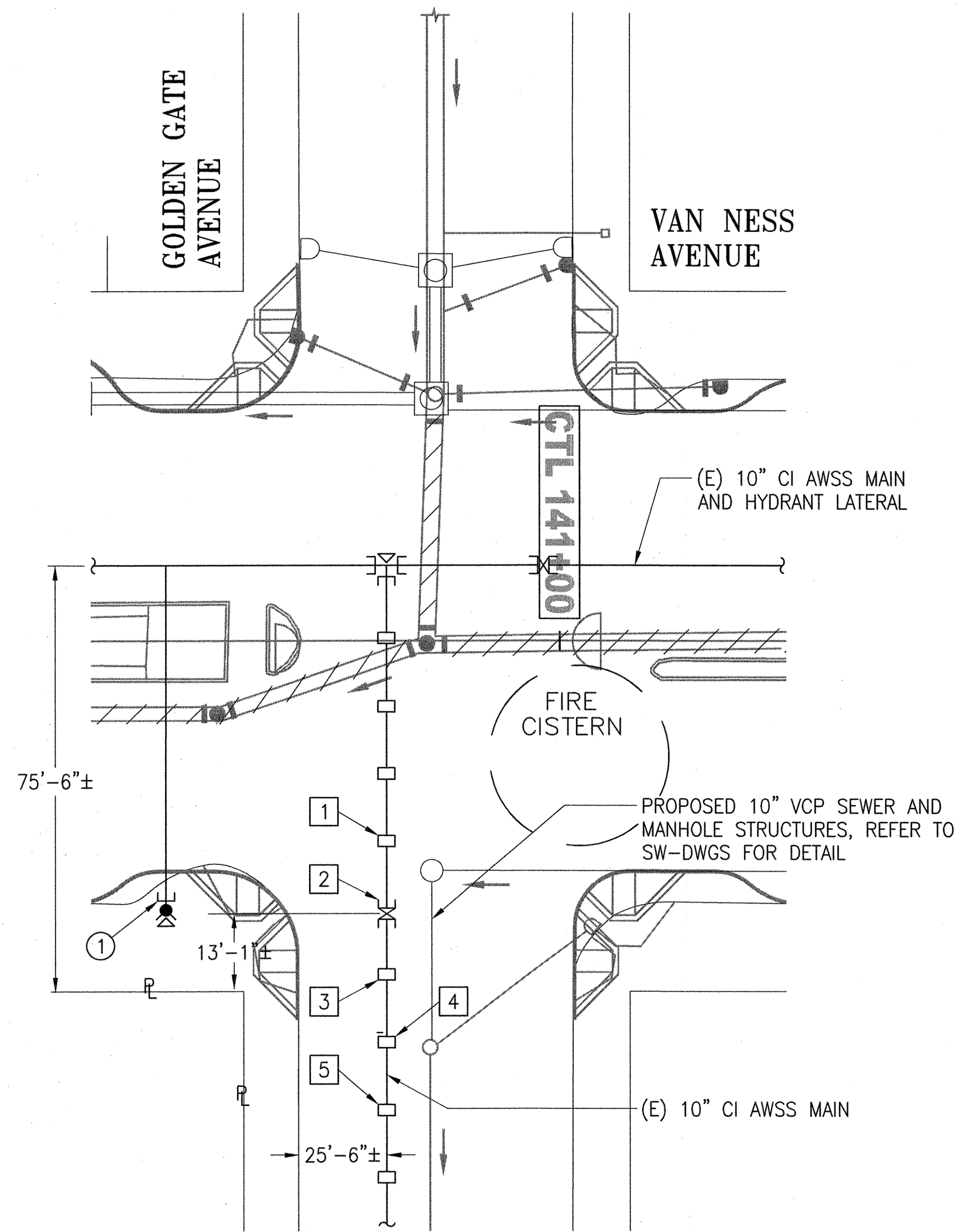
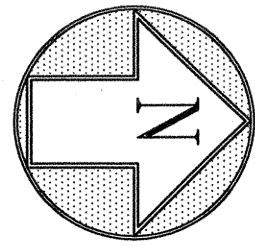


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DIVISION MANAGER, P.E. 11/20/15	CHECKED M CHEE 11/2015				
NO.	DATE	DESCRIPTION	BY	APPR'D	PLAN NO.
REVISIONS					

SFMTA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS F AND G - SETTLEMENT MONITORING WORK - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
MA-26	102,785
REVISION NO. 0	

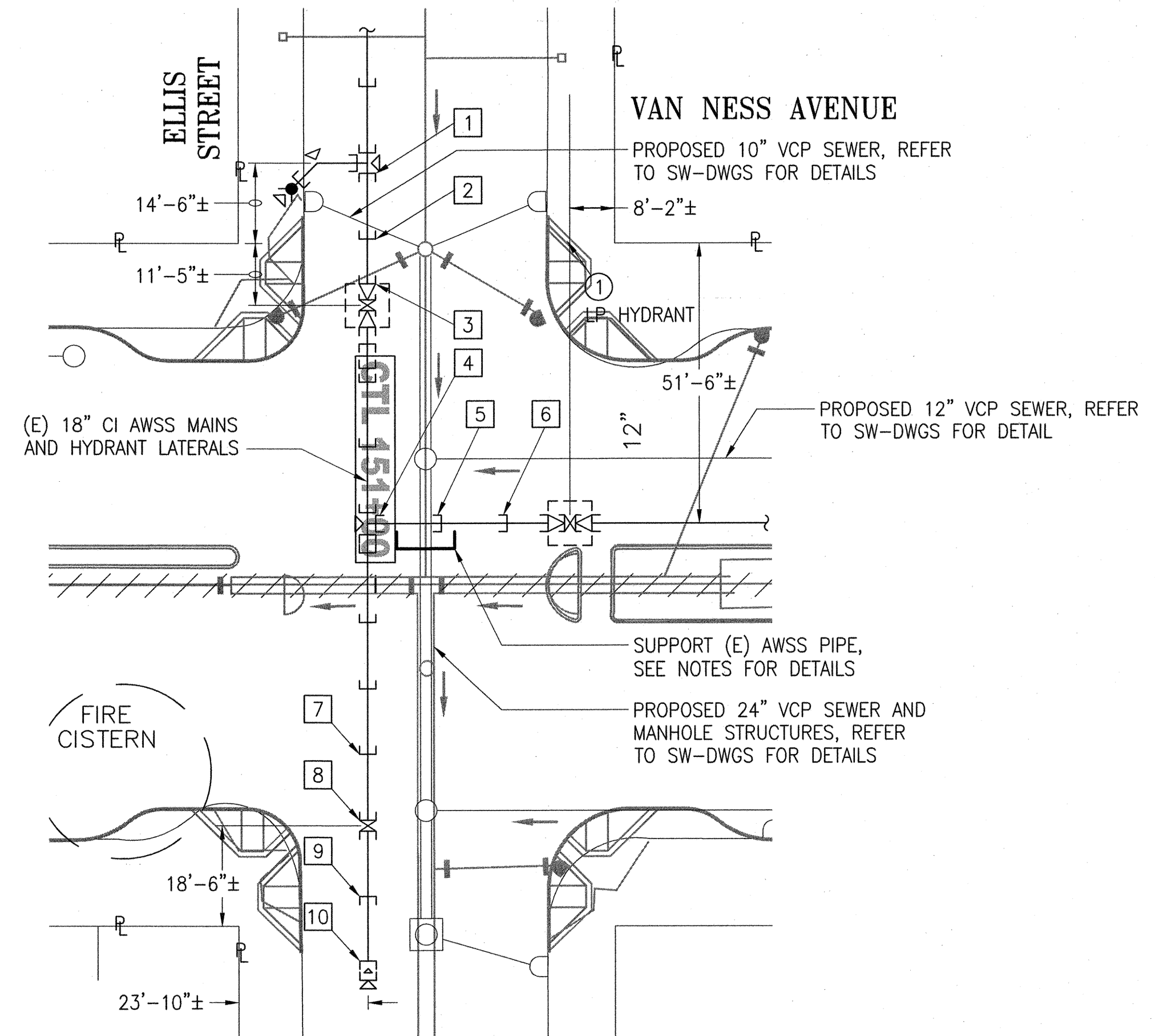
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SFPW JOB ORDER NO. 21061



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION H (VAN NESS AVENUE AND GOLDEN GATE AVENUE)



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION I (VAN NESS AVENUE AND ELLIS STREET)

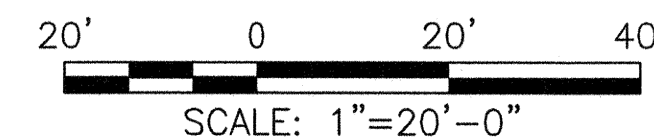
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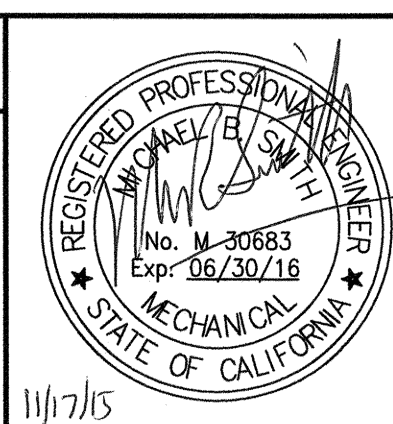
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AWSS DWG NOS. 54, 55, 113, 126

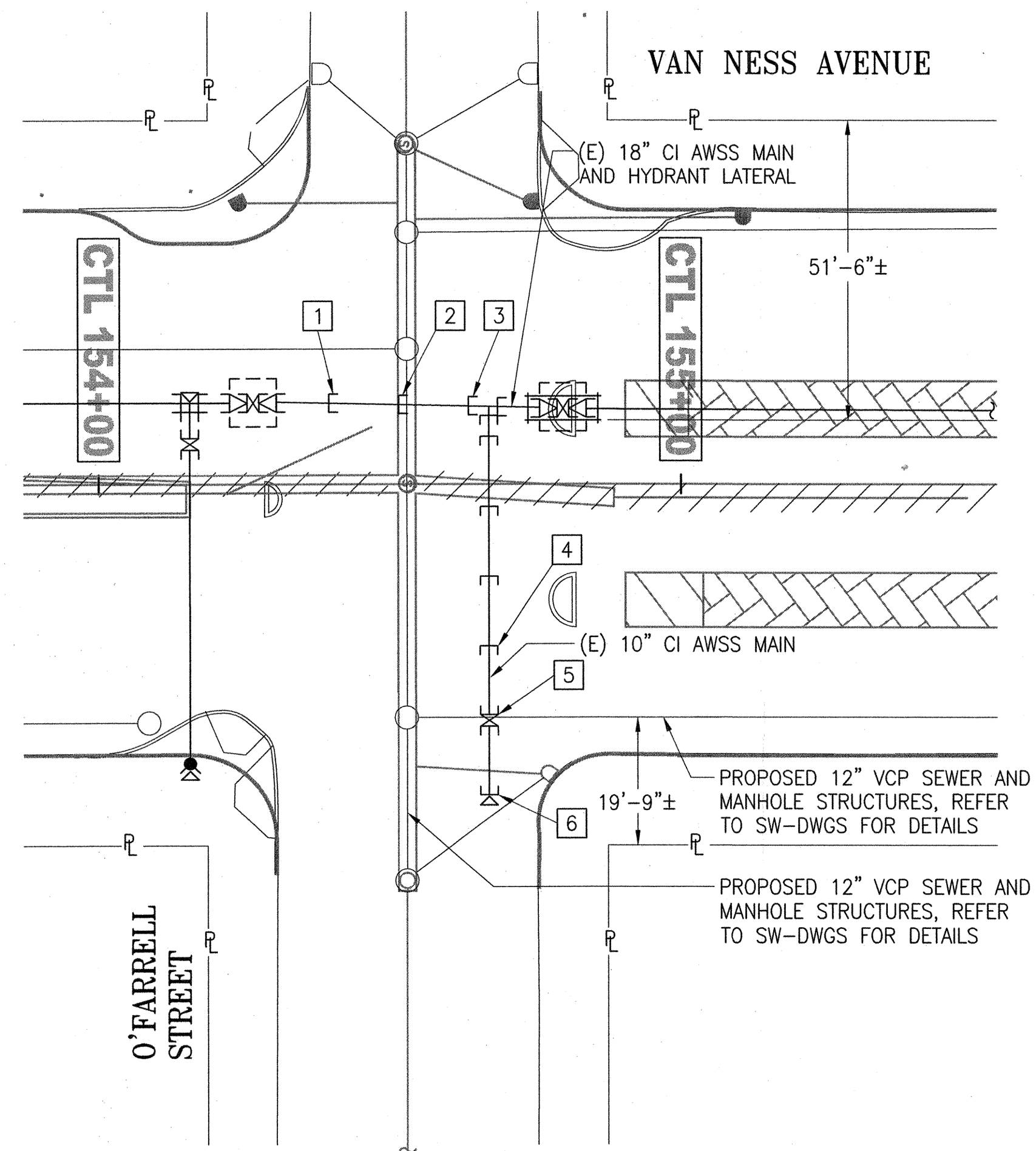
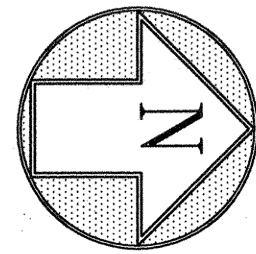


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REVISIONS			

SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS H AND I - SETTLEMENT MONITORING - NEW WORK - PLANS			
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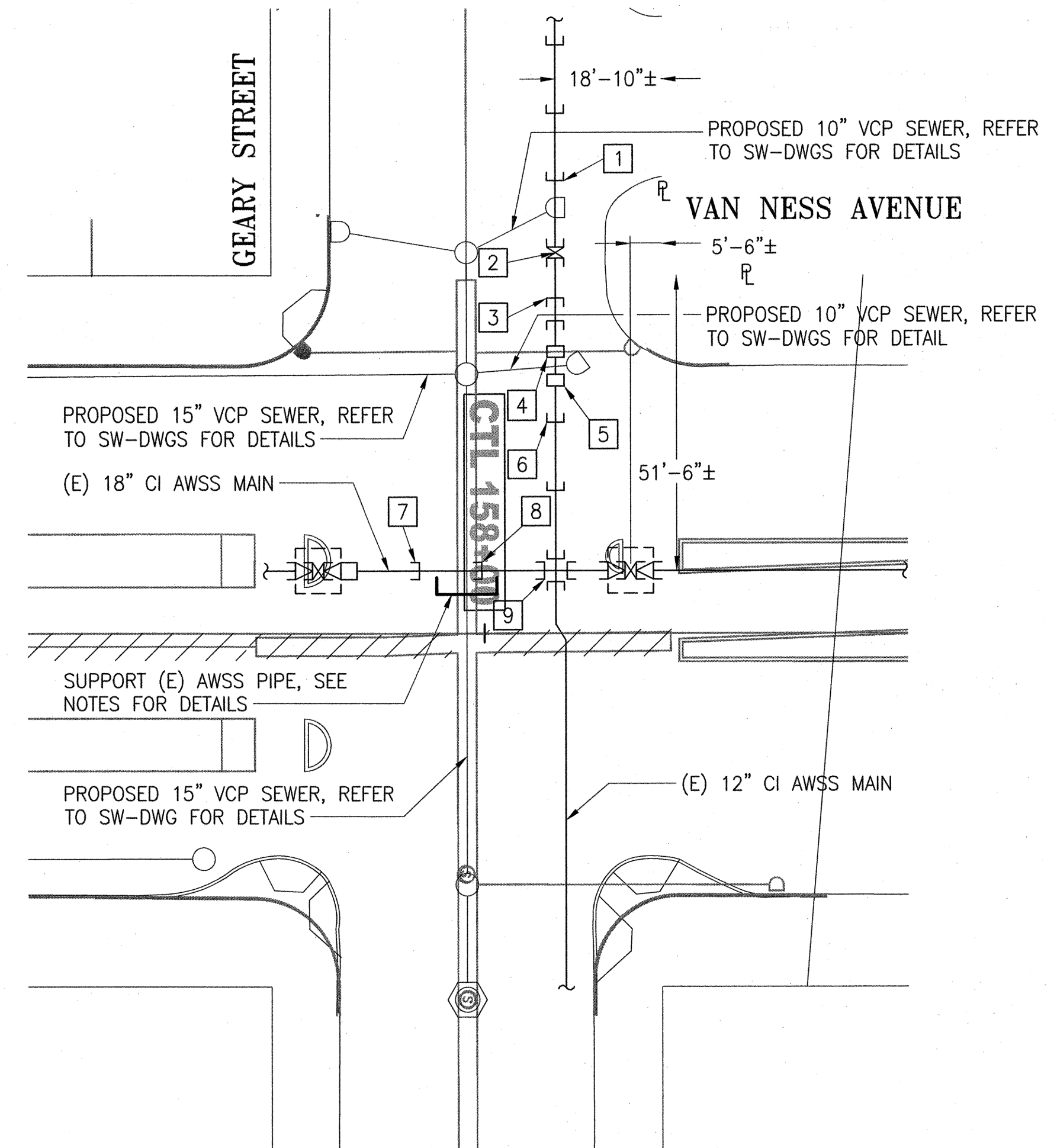
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SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION J (VAN NESS AVENUE AND O'FARRELL STREET)



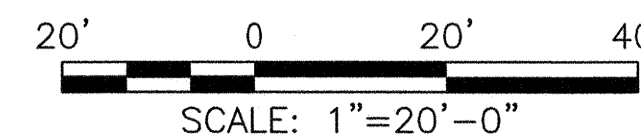
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LOCATION K (VAN NESS AVENUE AND GEARY BOULEVARD)

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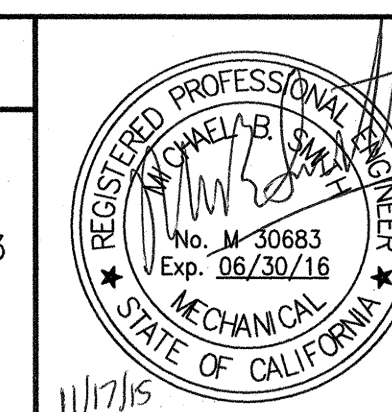
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SCALE: 1"=20'-0"

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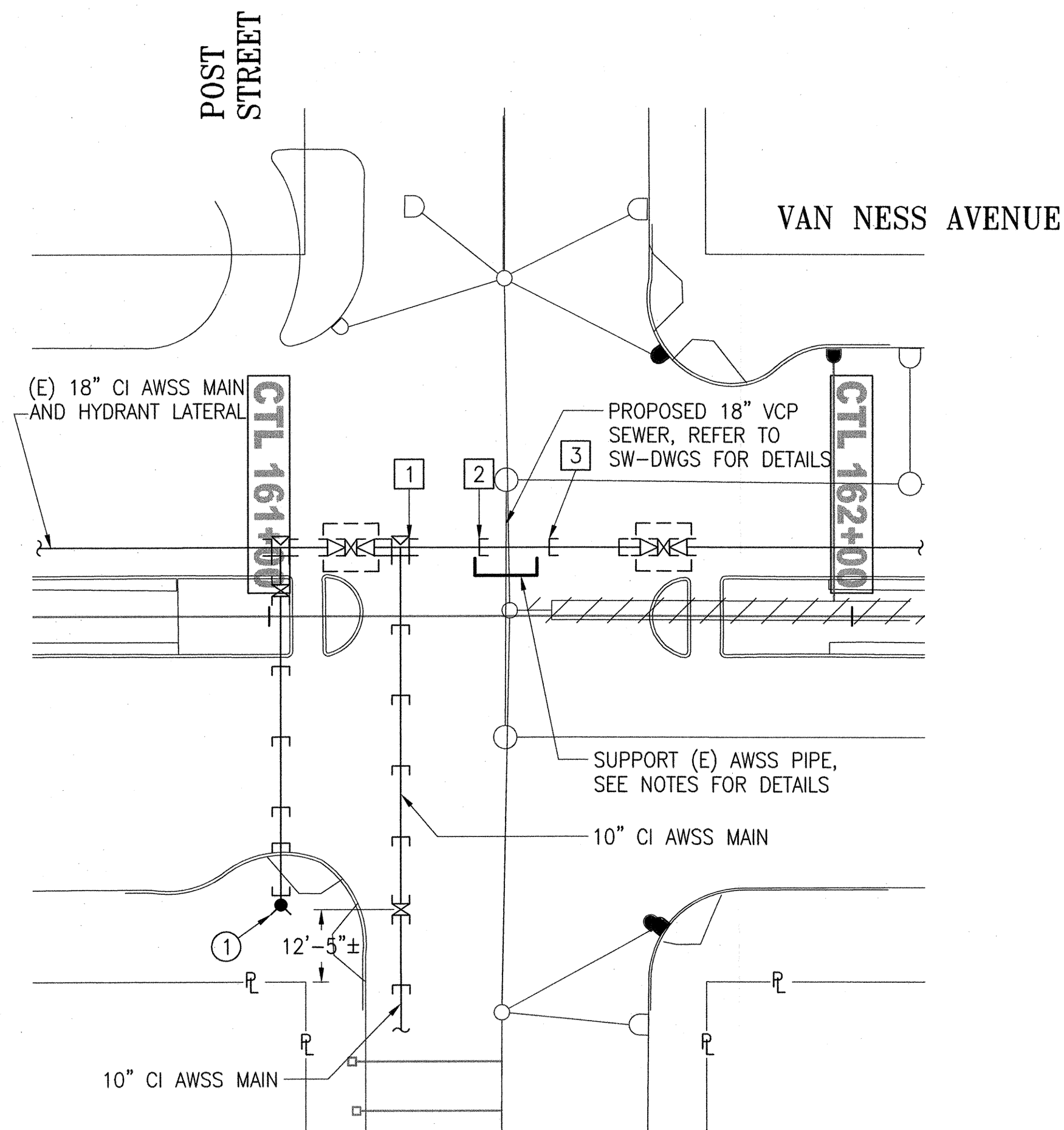
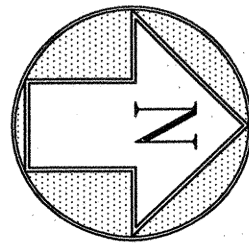


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DEPT. DIVISION MANAGER	11/20/15	DESIGNED	SMITH 11/2015
DIVISION MANAGER	11/20/15	CHECKED	M CHEE 11/2015
NO.	DATE	DESCRIPTION	BY
REVISIONS			

SFMTA CONTRACT NO. 1289			
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION			
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS J AND K - SETTLEMENT MONITORING - NEW WORK - PLANS			
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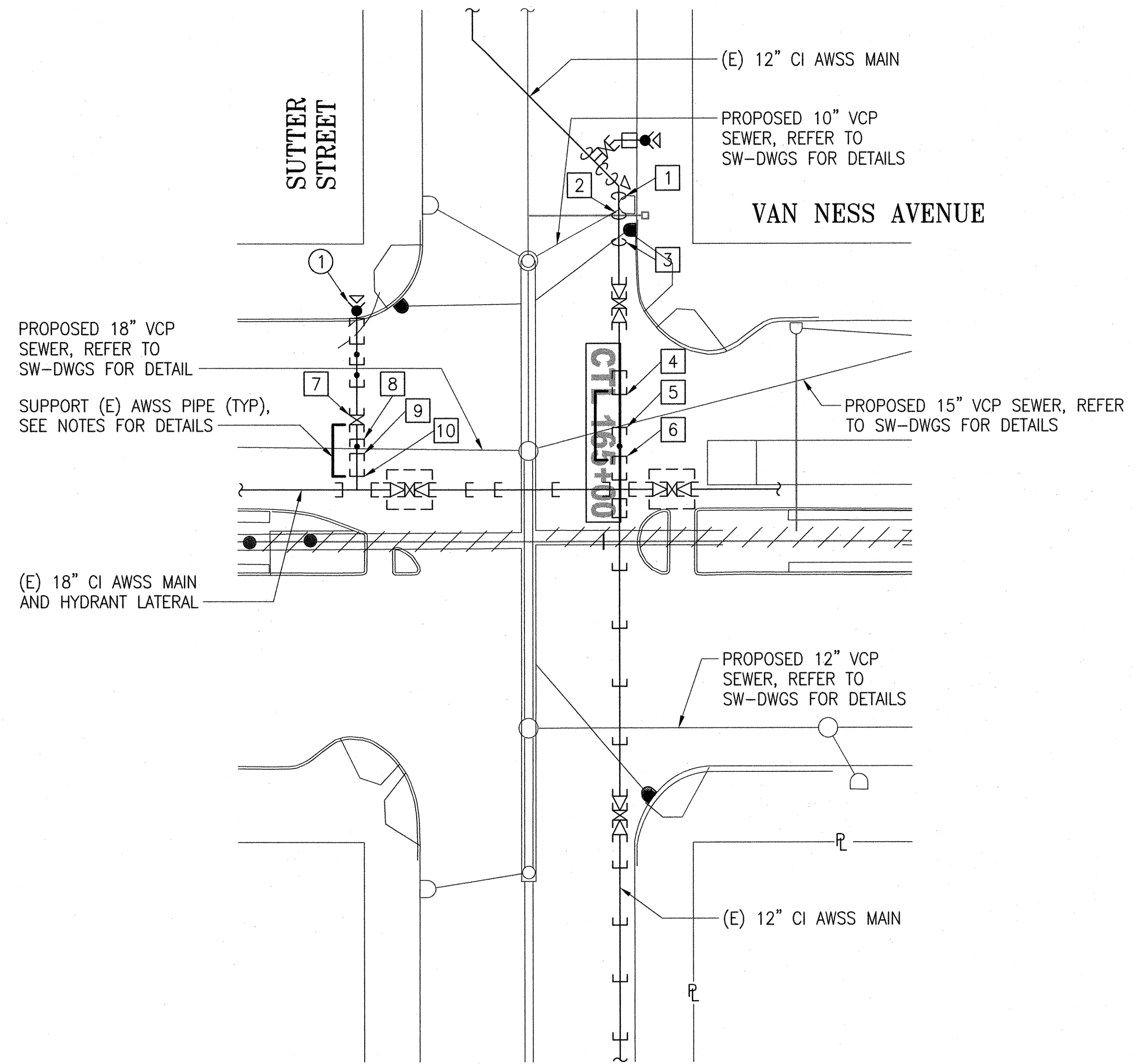
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SFPDW JOB ORDER NO. 21061



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION L (VAN NESS AVENUE AND POST STREET)



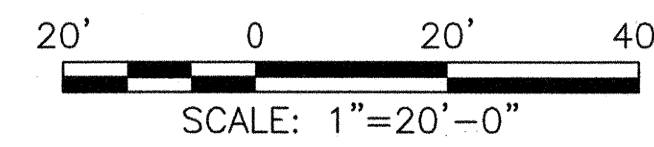
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SCALE: 1"=20'-0"

LOCATION M (VAN NESS AVENUE AND SUTTER STREET)

NOTES:

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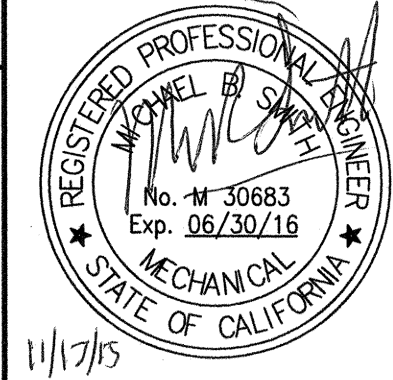
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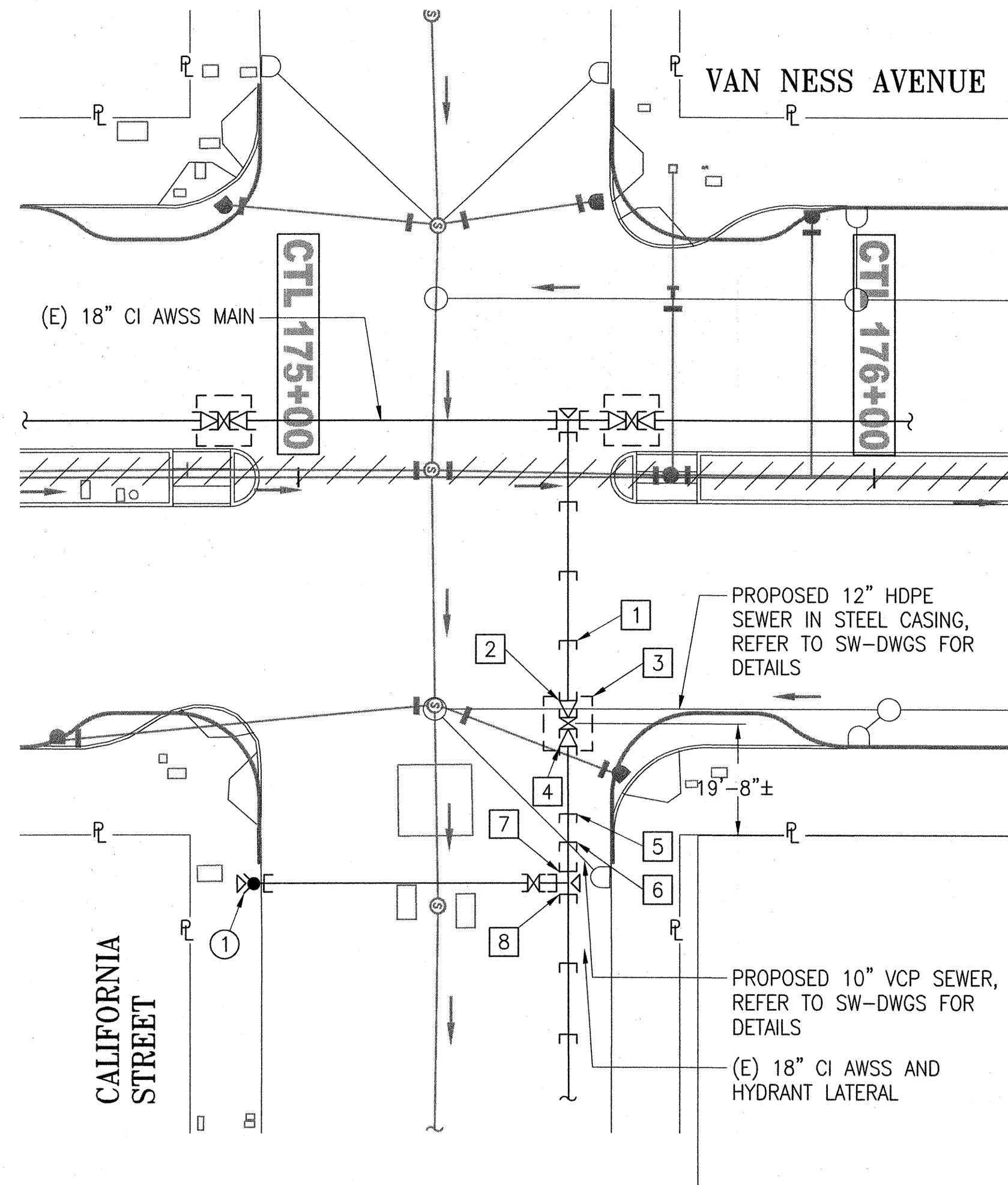
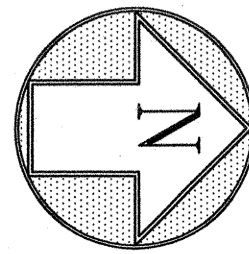
GATE BOOK PAGES
NO.
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CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING	
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DEPUTY SECTION MANAGER G.P.O.	DESIGNED SMITH 11/2015
DIVISION MANAGER DE M.CHEE	CHECKED M.CHEE 11/2015
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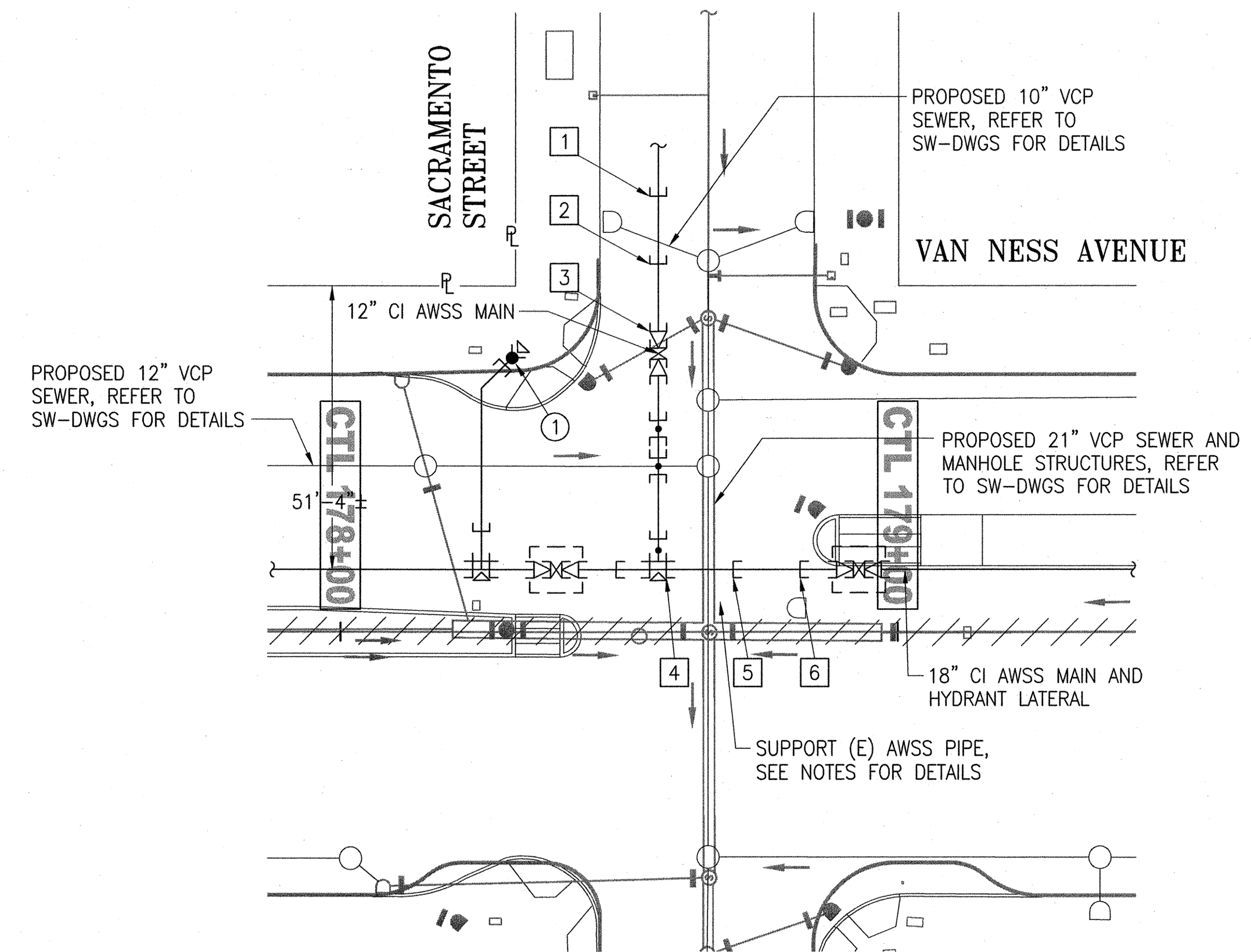
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MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS L AND M - SETTLEMENT MONITORING - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-29	REVISION NO. 102,788
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SFPDW JOB ORDER NO. 2106J



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION P (VAN NESS AVENUE AND CALIFORNIA STREET)



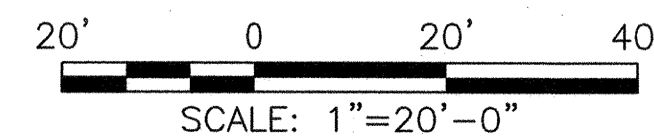
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LOCATION Q (VAN NESS AVENUE AND SACRAMENTO STREET)

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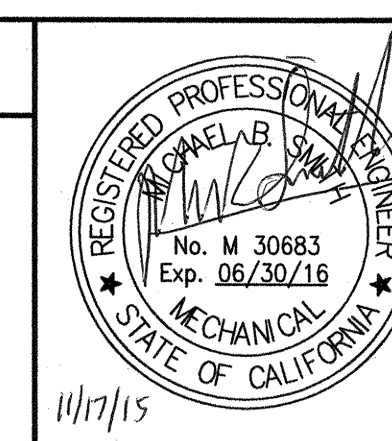
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REFERENCES
GATE BOOK PAGES, PLANS, SURVEY NOTES, ETC. USED

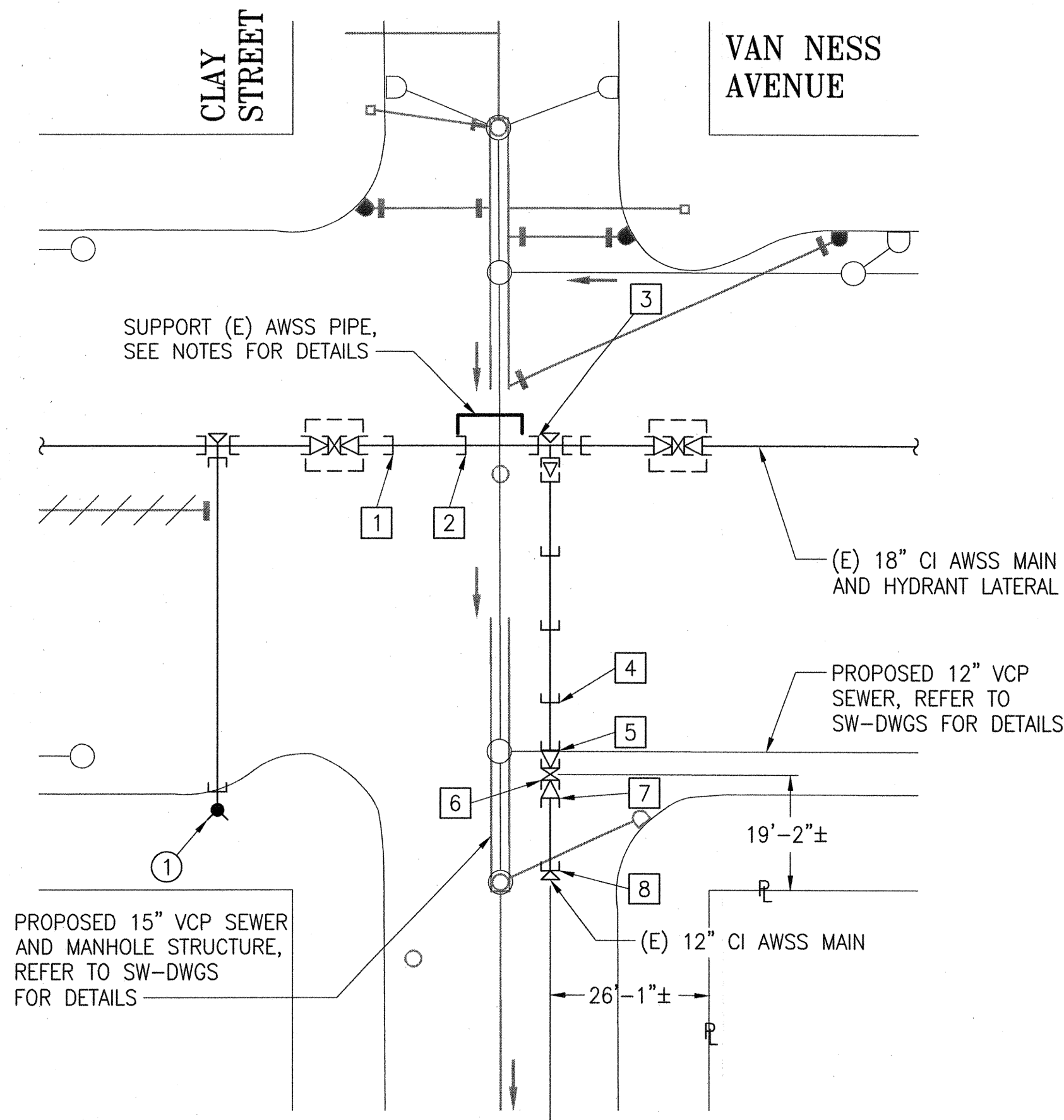
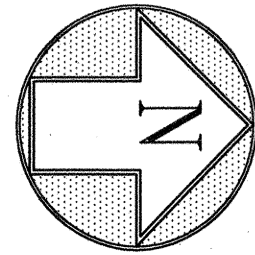
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CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING				
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REVISIONS				

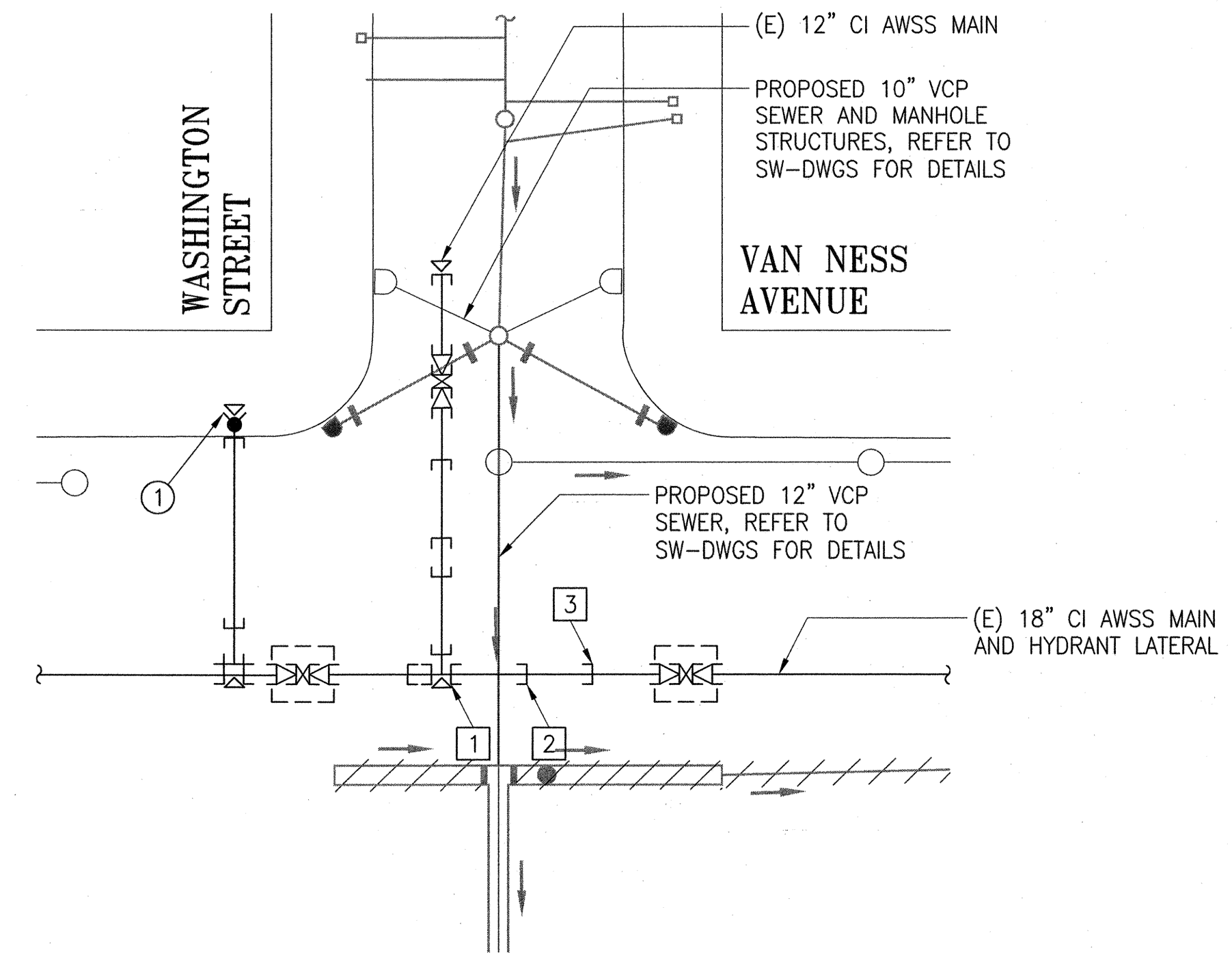
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MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS P AND Q - SETTLEMENT MONITORING - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-31	REVISION NO. 102,790
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SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION R (VAN NESS AVENUE AND CLAY STREET)



SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION S (VAN NESS AVENUE AND WASHINGTON STREET)

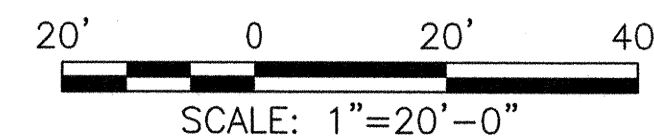
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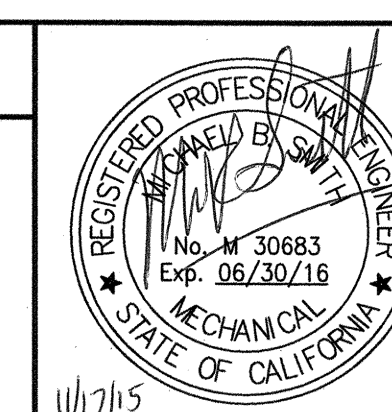
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AWSS DWG NOS.	58, 702

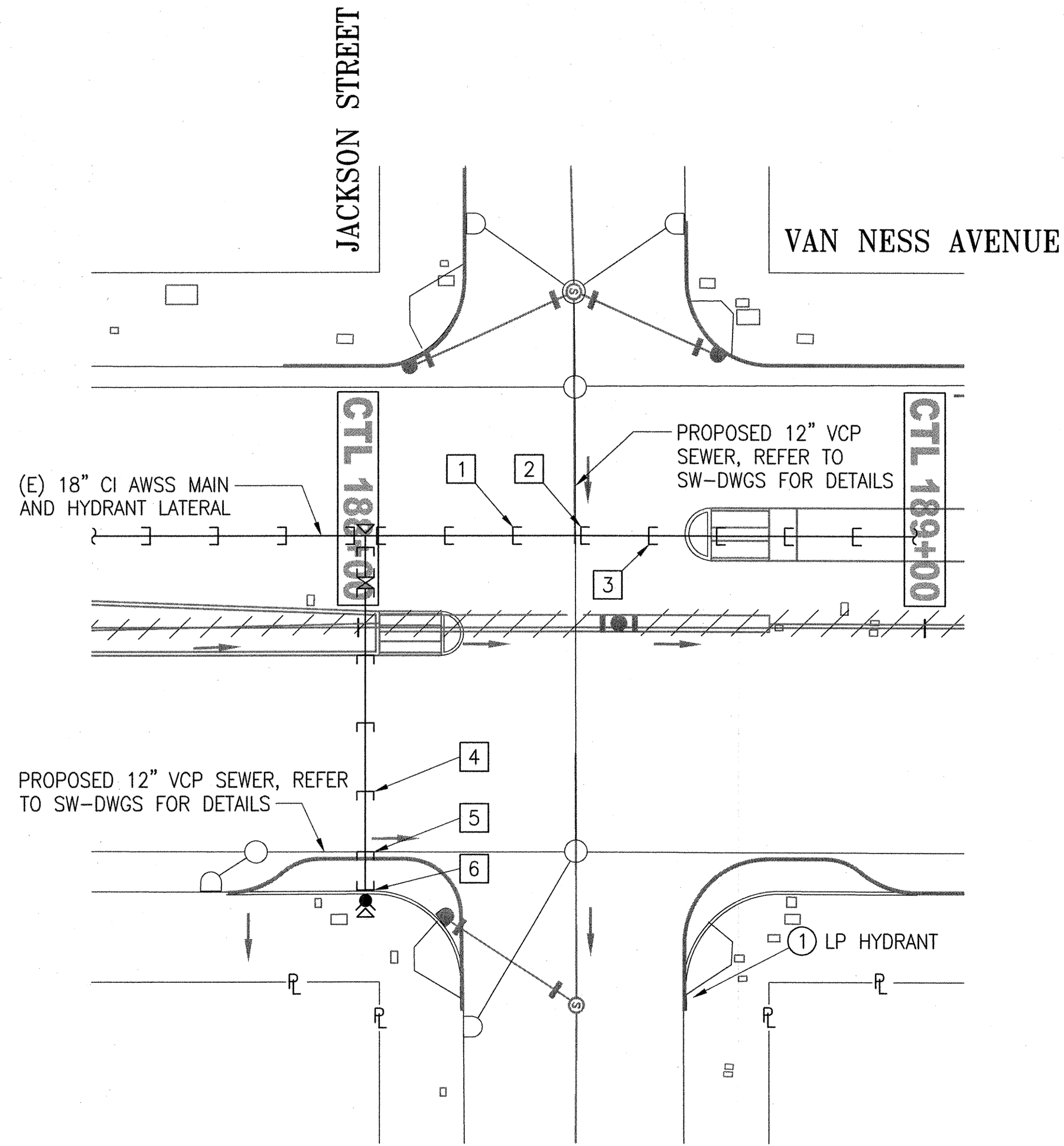
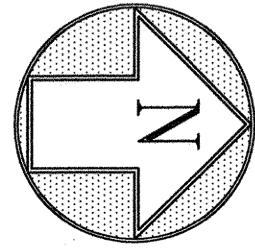


CITY AND COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS DESIGN AND ENGINEERING				
SECTION MANAGER 11/18/15	DRAWN BY AH/M MARTIN 11/2015			
DEPUTY DIVISION MANAGER 11/20/15	DESIGNED BY M SMITH 11/2015			
DIVISION MANAGER 11/20/15	CHECKED BY M CHEE 11/2015			
NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

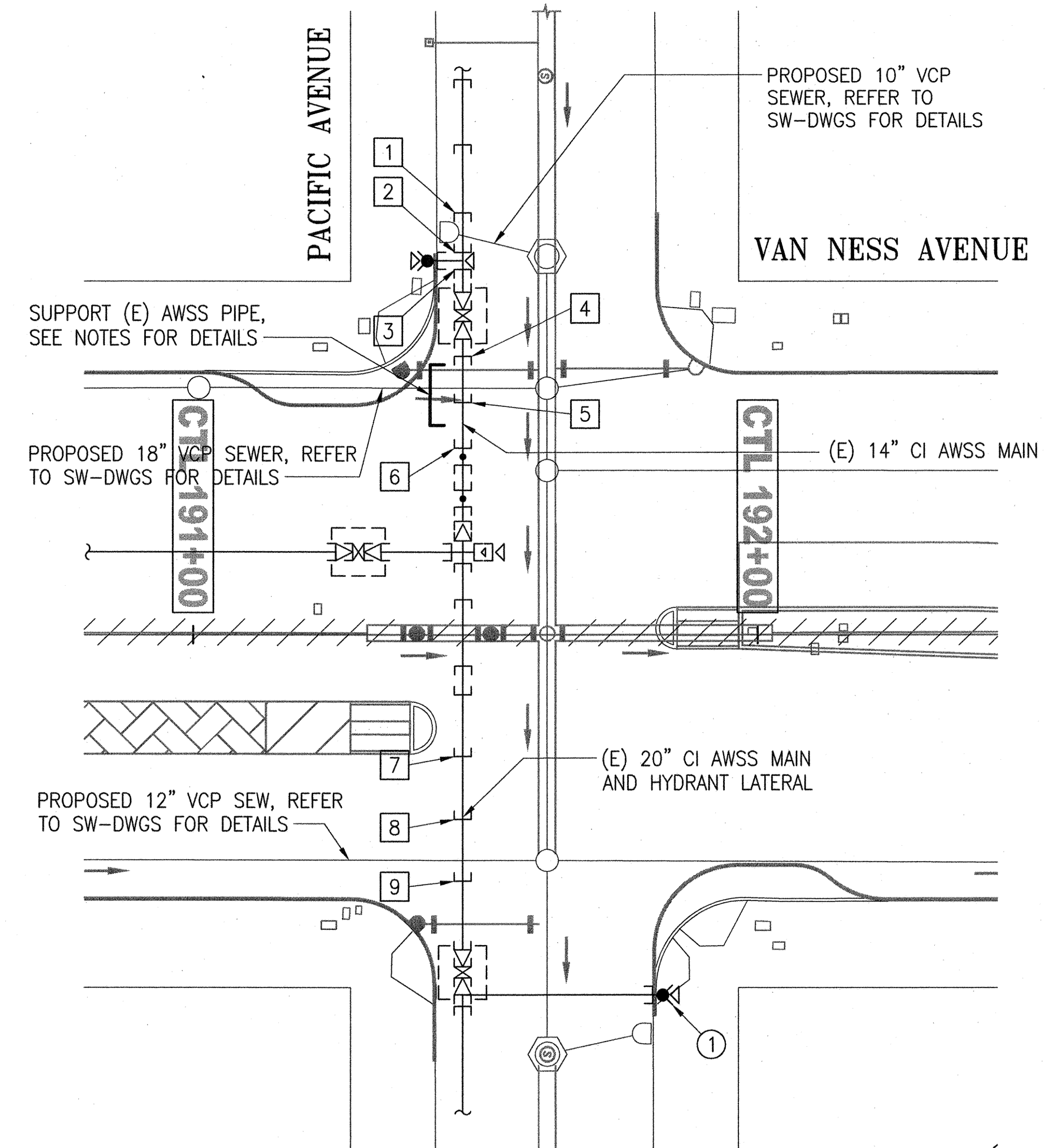
SFMTA CONTRACT NO. 1289	
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS R AND S - SETTLEMENT MONITORING - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-32	REVISION NO. 102,791
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SDPW JOB ORDER NO. 2106J



SETTLEMENT MONITORING - NEW WORK - PLAN
 SCALE: 1"=20'-0"
LOCATION T (VAN NESS AVENUE AND JACKSON STREET)

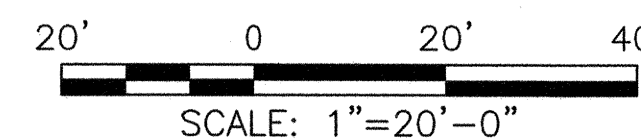


SETTLEMENT MONITORING - NEW WORK - PLAN
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LOCATION U (VAN NESS AVENUE AND PACIFIC AVENUE)

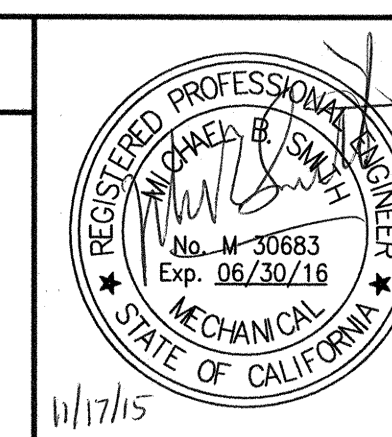
NOTES:

- REFER TO DWG MA-23 FOR NOTES, LEGEND, AND ELEVATIONS OF (E) AWSS FACILITIES.

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REFERENCES
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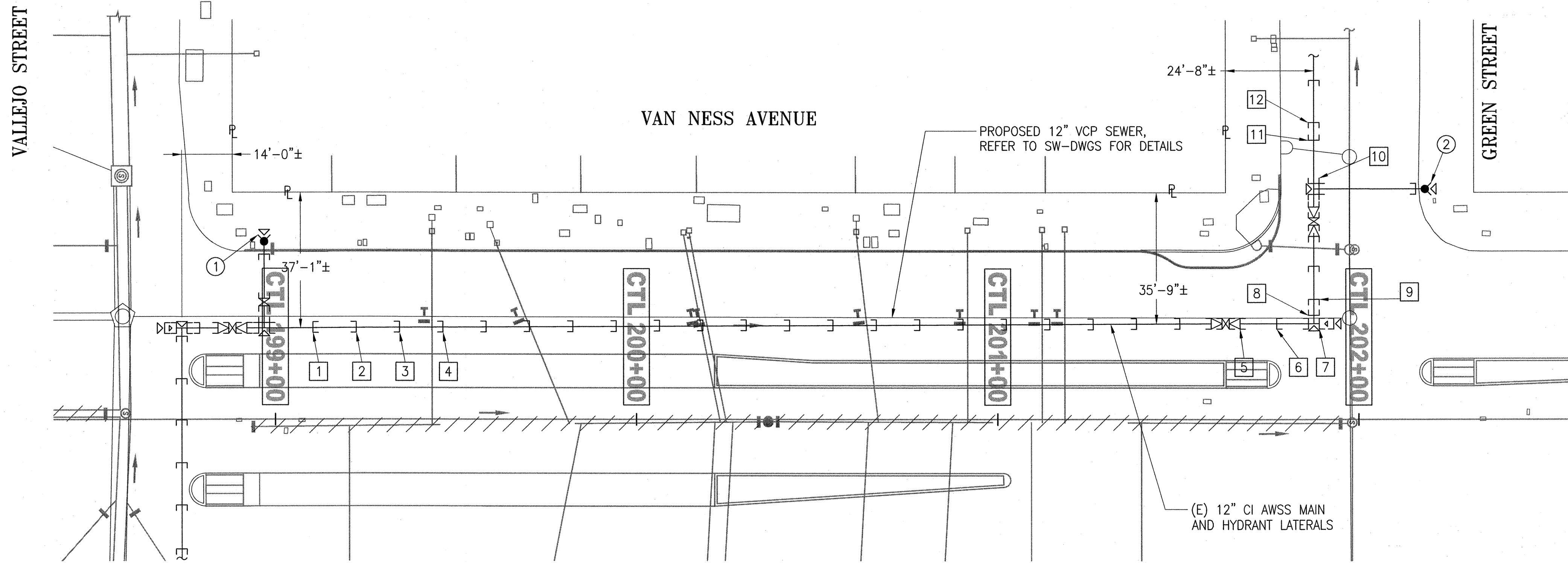
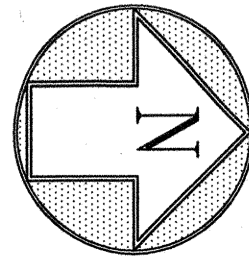


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SECTION MANAGER M. CHEE	DRAWN BY A. M. MARTIN 11/2015
DESIGN DIVISION MANAGER M. CHEE	DESIGNED BY M. SMITH 11/2015
DIVISION MANAGER DE M. CHEE	CHECKED BY M. CHEE 11/2015
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DESCRIPTION	
BY	APPR'D
REVISIONS	

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CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATIONS T AND U - SETTLEMENT MONITORING - NEW WORK - PLANS	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-33	DRAWING/FILE NO. 102,792
REVISION NO.	0

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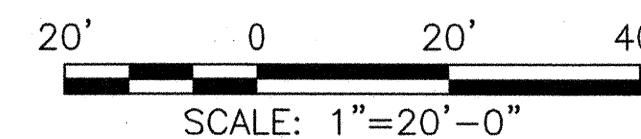
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LOCATION V (VAN NESS AVENUE BETWEEN VALLEJO AND GREEN STREETS)

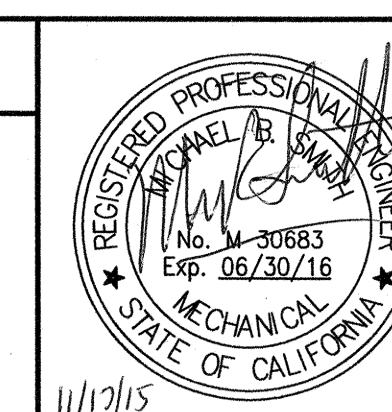
NOTES:

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AWSS DWG NO. 562	

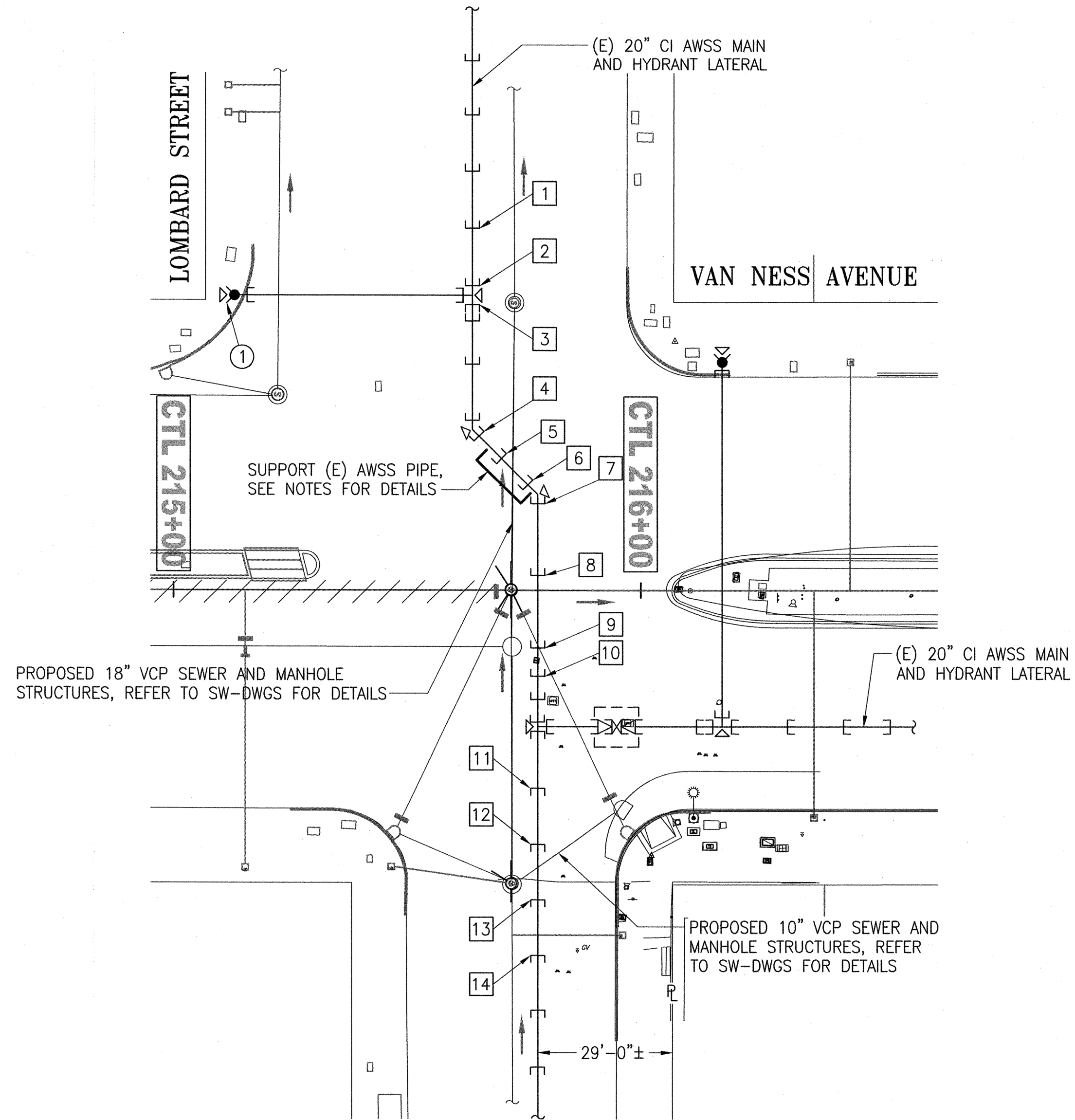
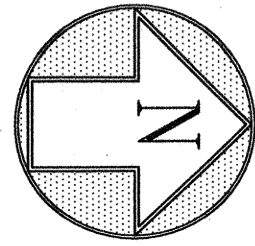


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MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT			
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ENGINEERING MANAGER	MANAGER, CITY DISTRIBUTION DIVISION	PLAN NO.	MA-34
DRAWING/FILE NO.	102,793	REVISION NO.	0

SFPW JOB ORDER NO. 2106J

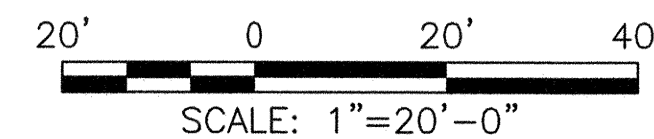


SETTLEMENT MONITORING - NEW WORK - PLAN
SCALE: 1"=20'-0"

LOCATION W (VAN NESS AVENUE AND LOMBARD STREET)

NOTES:

1. REFER TO DWG MA-23 FOR NOTES, LEGEND, AND ELEVATIONS OF (E) AWSS FACILITIES.



REFERENCES
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GATE BOOK PAGES NO.	
AWSS DWG NOS.	59, 221, 596



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SECTION MANAGER <i>[Signature]</i>	DRAWN BY M. MARTIN 11/2015			
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CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION WATER ENTERPRISE CITY DISTRIBUTION DIVISION	
MUNI BUS RAPID TRANSIT SYSTEM VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT	
AUXILIARY WATER SUPPLY SYSTEM WORK LOCATION W SETTLEMENT MONITORING - NEW WORK - PLAN	
APPROVED <i>[Signature]</i> ENGINEERING MANAGER	APPROVED <i>[Signature]</i> MANAGER, CITY DISTRIBUTION DIVISION
SCALE 1"=20'-0"	DATE 11/2015
PLAN NO. MA-35	REVISION NO. 0
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