IMPROVEMENT PLANS

PACIFIC GROVE- MONTEREY ASBS WET-DRY WEATHER STORM WATER CAPTURE AND DIVERSION PROJECT

CITY OF PACIFIC GROVE, MONTEREY COUNTY, CA STATE WATER RESOURCES CONTROL BOARD

age Number	Sheet Number	Sheet Title
1	G-1	TITLE SHEET
2	G-2	NOTES
3	G-3	LOVER'S POINT KEY MAP
4	G-4	LOVER'S POINT PROCESS DIAGRAM SCHEMATIC
5	G-5	SEA PALM KEY MAP
6	G-6	SEA PALM PROCESS DIAGRAM SCHEMATIC
7	S-1	TOPOGRAPHIC SURVEY OF LOVER'S POINT OVERVIEW
8	S-2	TOPOGRAPHIC SURVEY OF SEA PALM 1 OVERVIEW
9	S-3	TOPOGRAPHIC SURVEY OF SEA PALM 2 OVERVIEW
10	C-1	LOVER'S POINT STORM DRAIN STA. 10+00 TO STA. 12+50
11	C-2	LOVER'S POINT STORM DRAIN STA. 12+50 TO STA. 15+30
12	C-3	LOVER'S POINT STORM DRAIN STA. 49+60 TO STA 54+00
13	C-4	LOVER'S POINT STORM DRAIN STA. 54+00 TO STA. 58+50
14	C-5	LOVER'S POINT STORM DRAIN STA. 58+50 TO STA. 63+50
15	C-6	LOVER'S POINT STORM DRAIN STA. 63+50 TO STA. 68+00
16	C-7	LOVER'S POINT TANK SITE PLAN
17	C-8	HOLE 6 GOLF COURSE IMPROVEMENTS
18	C-9	HOLE 6 GOLF COURSE IMPROVEMENTS
19	C-10	SEA PALM STORM DRAIN STA. 70+00 TO STA. 72+00
20	C-11	OCEAN VIEW SEWER STA. 100+00 TO STA. 103+00
21	C-12	OCEAN VIEW SEWER STA. 103+00 TO STA. 106+00
22	C-13	OCEAN VIEW SEWER STA. 106+00 TO STA. 109+00
23	C-14	OCEAN VIEW SEWER STA. 123+50 TO STA. 127+50
24	C-15	SEA PALM TANK SITE PLAN
25	C-16	DETAILS SHEET
26	C-17	DETAILS SHEET
27	C-18	DETAILS SHEET
28	C-19	DETAILS SHEET
29	E-1	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
30	E-2	SINGLE LINE DIAGRAMS
31	E-3	SEA PALM LIFT STATION NO. 15 SITE PLAN
32	E-4	LOVER'S POINT LIFT STATION NO. 13 SITE PLAN
33	E-5	ELECTRICAL DETAILS

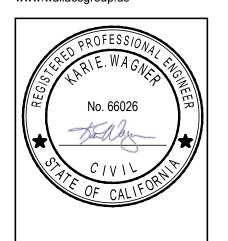


WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS

WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.



•	
	A _A C
	PACIFIC
	PACIFIC GROVE
	SITE LOCATION NTS

- LOVER'S POINT DIVERSION

VICINITY MAP FUNDING FOR THIS PROJECT HAS BEEN PROVIDED IN FULL OR IN PART THROUGH AN AGREEMENT WITH THE STATE WATER RESOURCES CONTROL BOARD USING FUNDS FROM PROPOSITION 84 AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE (ASBS). THE CONTENTS OF THIS DOCUMENT DO NOT NECESSARILY REFLECT THE VIEWS AND POLICIES OF THE FOREGOING, NOR

DOES MENTION OF TRADE NAMES OR COMMERCIAL PRODUCTS CONSTITUTE

'SITE

PEBBLE V | BEACH

ENDORSEMENT OF RECOMMENDATION FOR USE.

B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву

JOB #:	1153-0003-01		
DESIGNERS:	SGT/KEA		
DRAWN BY:	JSW		
DATE:	02/15/19		
DRAW	ING NO.		
G-1			
1 OF 3	3 SHEETS		

SITE

LOVER'S POINT DIVERSION

SEA PALM DIVERSION

SCOPE DESCRIPTION

STORM DRAIN PIPELINE

STORM DRAIN MANHOLES

DIVERSION STRUCTURES

VALVE VAULT W/ FLOW-METER AND CONTROL VALVE

UNDERGROUND RESERVOIR (CAPACITY)

STORM DRAIN PIPELINE

STORM DRAIN MANHOLES

DIVERSION STRUCTURES

VALVE VAULT W/ FLOW-METER AND CONTROL VALVE

UNDERGROUND RESERVOIR (CAPACITY)

REHABILITATE OR REPLACE SANITARY SEWER PIPELINE

REHABILITATE OR REPLACE SANITARY SEWER MANHOLES

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

APPROXIMATE OFFHAUL FROM RESERVOIR SITES			
LOVER'S POINT RESERVOIR EXPORT	2,515 CY		
SEA PALM RESERVOIR EXPORT	333 CY		

וטטר	LVIATIONO	LLOLIND		
AC ACP AISC	ASPHALTIC CONCRETE ASBESTOS CEMENT PIPE AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXISTING	PROPOSED	DESCRIPTION
ARV A&V	AIR RELEASE VALVE AIR AND VACUUM (COMBINATION) VALVE	(100.0 FS)	101.50 FS	SPOT ELEVATIONS
AVG BC	AVERAGE BEGIN CURVE	©	\bigcirc	SEWER MANHOLE
BF BFV	BLIND FLANGE BUTTERFLY VALVE	co O	co	SEWER CLEANOUT
BIA BLDG	BUREAU OF INDIAN AFFAIRS BUILDING	O	•	SERVICE LATERAL
3M 3O	BENCH MARK BLOW OFF	[E	(W=WATER, G=GAS, U=UTILITIES)
3V C	BALL VALVE CURB			SERVICE METER (W=WATER)
CAV CATV	COMBINATION AIR VALVE CABLE TELEVISION	8	8	DOUBLE SERVICE METER (W=WATER)
CI CL	CAST IRON CENTERLINE		<u> </u>	SEWER LATERAL
CL CMP	CLASS CORRUGATED METAL PIPE	+\$.	FIRE HYDRANT
CO CONC	CLEANOUT CONCRETE		Ť	STORM DRAIN MANHOLE
CONST CONT	CONSTRUCTION CONTINUOUS		\subseteq	
CP CPLG	CATHODIC PROTECTION COUPLING			STORM DRAIN CATCH BASIN
CY DET	CUBIC YARD DETAIL	— <i>-</i> ⊗— —	——⊗——	GATE VALVE
DIA DIM	DIAMETER DIMENSION	[<u> </u>	CAP
D/W E	DRIVEWAY EXISTING	Δ	Δ	SURVEY MONUMENT
EA EC	EACH END CURVE	⊕ #PT	◆ #PT	BENCH MARK
ELE EP	ELEVATION EDGE OF PAVEMENT	(2.00) %	2.00 %	SLOPE PERCENTAGE
EX EG	EXISTING EXISTING GROUND			
-CA -DC	FLANGE COUPLING ADAPTOR FIRE DEPARTMENT CONNECTION		// // // // // // //	ABANDON UTILITY
FF FG	FINISH FLOOR FINISH GRADE	<u>, I , </u>		EDGE OF PAVEMENT
=H =L	FIRE HYDRANT FLOW LINE			REDUCER / INCREASER
FIRE FLG	FIRE LINE FLANGE	— — — WL —		WATER LINE
FS FT	FINISH SURFACE FEET	SSFM		SEWER FORCE MAIN
G GA GAL	GAS GAGE GALLON	ss	ss	GRAVITY SEWER LINE
GALV	GALVANIZED			
GB GPD GPM	GRADE BREAK GALLONS PER DAY GALLONS PER MINUTE	— — SD —	———— SD ————	STORM DRAIN
GV HC	GALLONS PER MINUTE GATE VALVE HANDICAP	— — GAS —	GAS	UNDERGROUND GAS LINE
HDPE HGL	HIGH DENSITY POLYETHYLENE HYDRAULIC GRADE LINE			UNDERGROUND UTILITY
D N	INSIDE DIAMETER INCHES	— — — UTL —	———— UTL ————	LINE LOCATION
NV JP	INVERT JOINT POLE	— —— ELE —	ELE	UNDERGROUND ELECTRICAL LINE
JT	JOINT UTILITY TRENCH			
- _AT	LENGTH LATERAL	— — CTV —	CTV	UNDERGROUND CABLE TELEVISION LINE
_F _P	LINEAR FEET LIGHT POLE	— — TEL —	TEL	UNDERGROUND
_T M	LEFT METER		122	TELEPHONE LINE
MAX MIN	MAXIMUM MINIMUM			RIGHT OF WAY
MISC	MISCELLANEOUS			EASEMENT
MH N/A	MANHOLE NOT APPLICABLE			CENTERLINE
NGVD NIC	NATIONAL GEODETIC VERTICAL DATUM NOT IN CONTRACT		××	BARBED WIRE FENCE
NTS OD	NOT TO SCALE OUTSIDE DIAMETER			CHAIN LINK FENCE
PCC PH	PORTLAND CEMENT CONCRETE POTHOLE (UTILITY WAS POTHOLED)			RETAINING WALL
PIV POC	POST INDICATOR VALVE POINT OF CONNECTION			FLOWLINE
PRV PSF	POINT OF CONNECTION PRESSURE REGULATING VALVE POUND PER SQURE FOOT			. LOWLINE

APPROXIMATE OFFHAUL FROM I	RESERVOIR SITES
LOVER'S POINT RESERVOIR EXPORT	2,515 CY
SEA PALM RESERVOIR EXPORT	333 CY

Know what's **below. Call** before you dig.

D1612658- CITY OF PACIFIC GROVE 100% PLAN ANALYSIS

QUANTITY SHOWN ON 100% PLANS

2,335 LF

21

4

367,081 GAL

301 LF

48,560 GAL

1,376 LF

10

COMMENTS

FLOW METER IN STORM DRAIN MANHOLE

DOWNSTREAM OF VALVE VAULT.

CAPACITY DECREASE DUE TO REFINEMENT OF

HYDROLOGY AND HYDRAULICS.

FLOW METER IN STORM DRAIN MANHOLE

DOWNSTREAM OF VALVE VAULT.

CAPACITY DECREASE DUE TO REFINEMENT OF

HYDROLOGY AND HYDRAULICS. SECTION OF SEWER MAIN WAS PREVIOUSLY

REPLACED BY THE CITY AND IS NO LONGER A PART OF THE PROJECT.

PSF

PSI

PVC

RCP

R/W

SS

SCH

SHT

SPEC

SSFM

STA

STD

STL

TP

TYP

VAR

VIC VERT

WM

WW

REQD

POUND PER SQURE FOOT

POUND PER SQUARE INCH POLYVINYL CHLORIDE

REINFORCED CONCRETE

REQUIRED **RIGHT**

SCHEDULE STORM DRAIN

SHEET

STATION

STEEL SIDEWALK TELEPHONE THRUST BLOCK TOP OF BANK TOP OF CURB TOP OF FOOTING TOP OF GRATE

STANDARD

RET WALL RETAINING WALL

RIGHT OF WAY

SANITARY SEWER

SPECIFICATIONS

TOP OF PAVEMENT

VERTICAL CURVE

VICTAULIC COUPLING

COMMON TRENCH UTILITIES

TOP WALL

VERTICAL WATER WIDE FLANGE

WATER LINE

WATER METER

WATER VALVE

WET WELL

WATER SERVICE

WELDED WIRE MESH

*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS.

NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.

REINFORCED CONCRETE PIPE

SANITARY SEWER FORCE MAIN

SCOPE MINIMUM QUANTITY REQUIRED

2,300 LF

20

3

400,000 GAL

270 LF

2

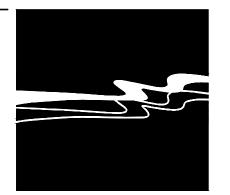
1

50,000 GAL

1,800 LF

7

02/15/19 ISSUED FOR BID 01/16/19 100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW JSW Date Rev. Description of Revisions



WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
NOTES

DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19 DRAWING NO.

G-2 2 OF 33 SHEETS

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS

WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT

JOB #: 1153-0003-01

DESIGNERS: SGT/KEA

DRAWN BY: JSW

DATE: 02/15/19

ISSUED FOR BID

100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW

Description of Revisions

(IN FEET) 1 IN = 100 FT

Rev.

Date

DRAWING NO.

G-33 OF 33 SHEETS

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294



SIGNATURE

DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

These plans and specifications, and the ideas and

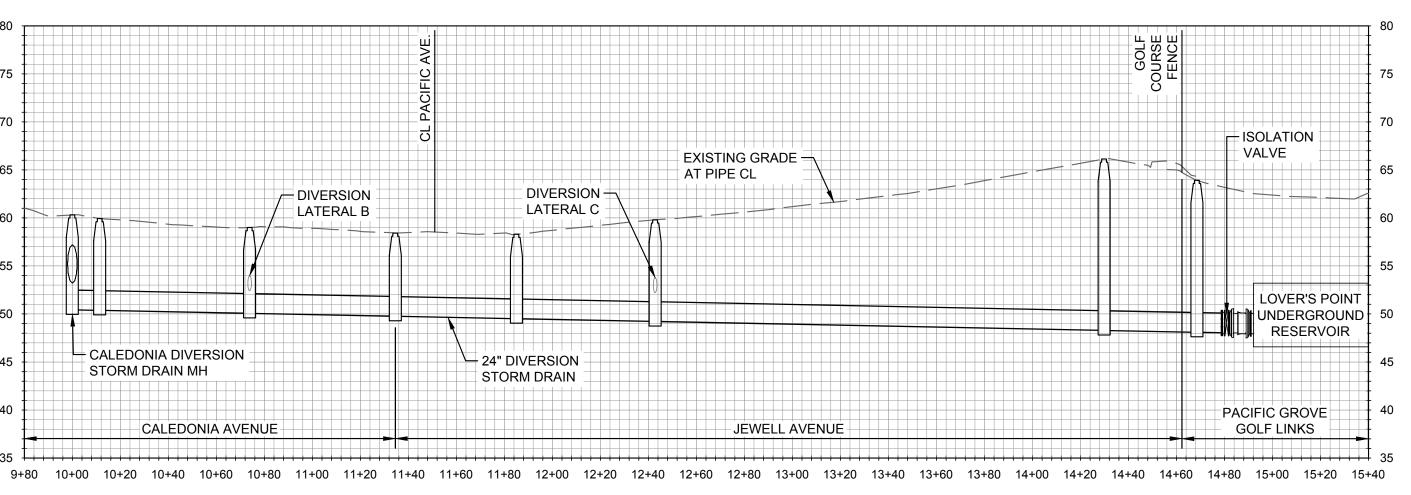
Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



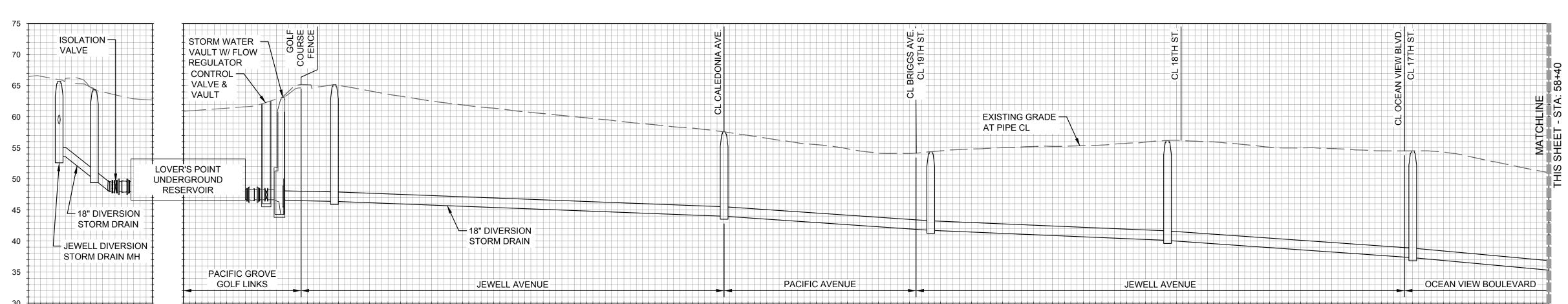
DRAWN BY: JSW

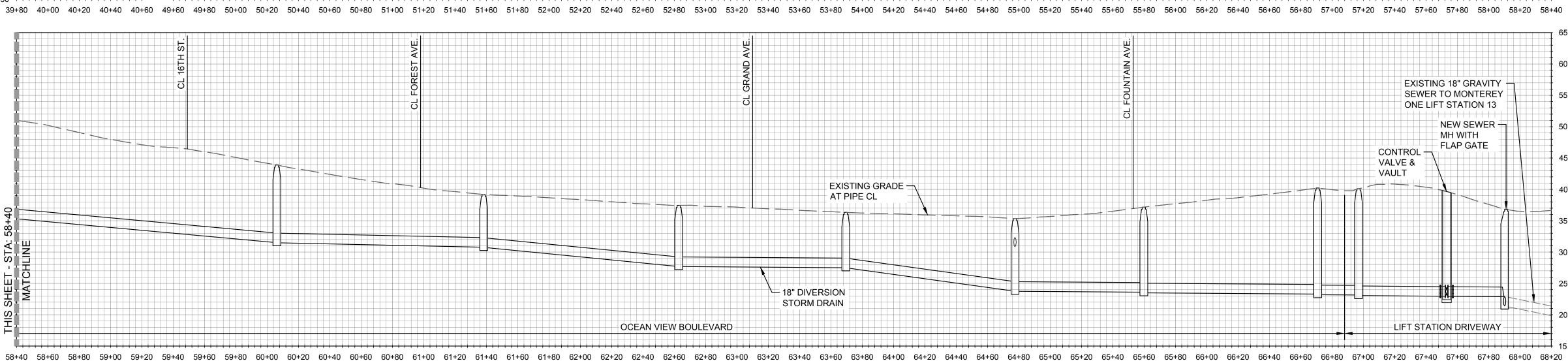
DATE: 02/15/19 DRAWING NO.

G-4 4 OF 33 SHEETS

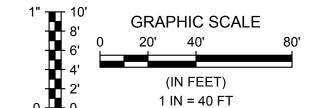


LOVER'S POINT (CALEDONIA) DIVERSION PROCESS SCHEMATIC HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'

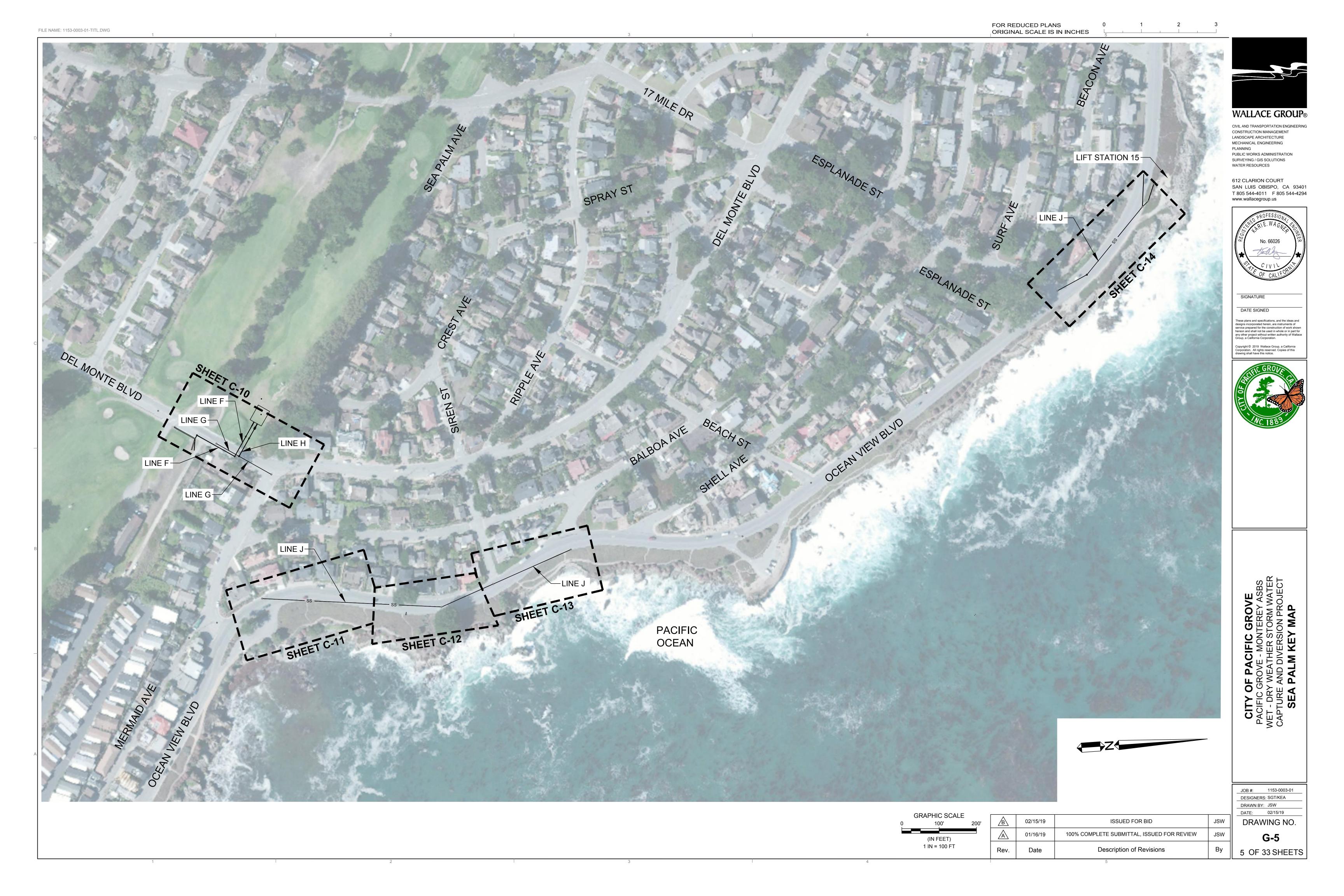




LOVER'S POINT PROCESS SCHEMATIC HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'



B	02/15/19	ISSUED FOR BID	JSV
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSV
Rev.	Date	Description of Revisions	Ву



EXISTING 8" SEWER

SEWER MH

NEW 10" SEWER -

REPLACE EXISTING

EXISTING GRADE

NEW SEWER MH

DIVERSION

- LATERAL H

REPLACE EXISTING

SEWER MH

DEL MONTE BOULEVARD

79+80 80+00 80+20 80+40 80+60 80+80 81+00 81+20 81+40 81+60 81+80 82+00

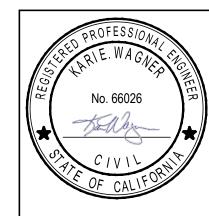
SEA PALM DIVERSION PROCESS SCHEMATIC HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'

AT PIPE CL

WALLACE GROUP®

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION

SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294



SIGNATURE



CIVIL AND TRANSPORTATION ENGINEERING

SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT www.wallacegroup.us



DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

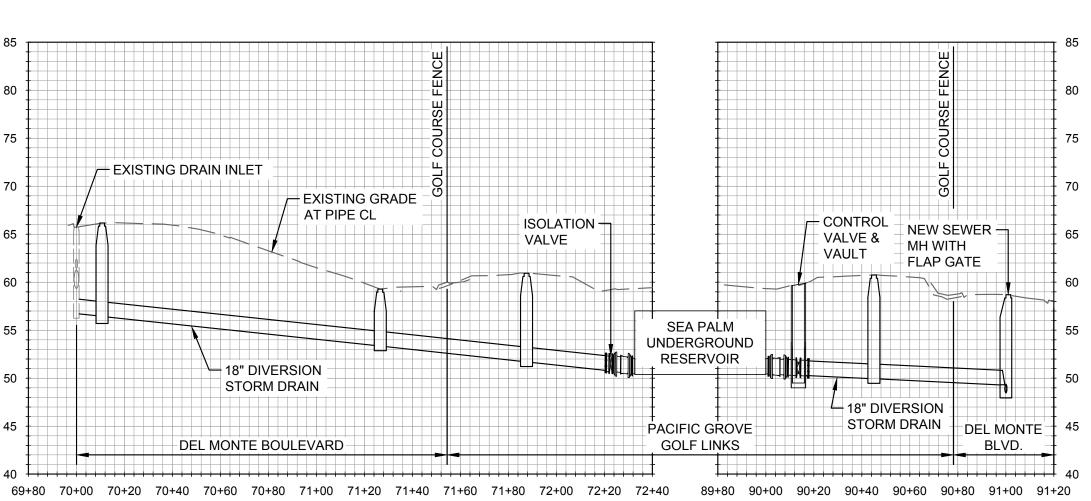
Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19

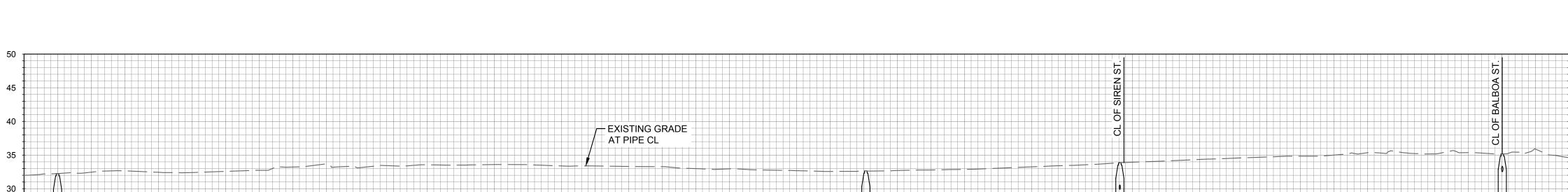
DRAWING NO.

G-6 6 OF 33 SHEETS



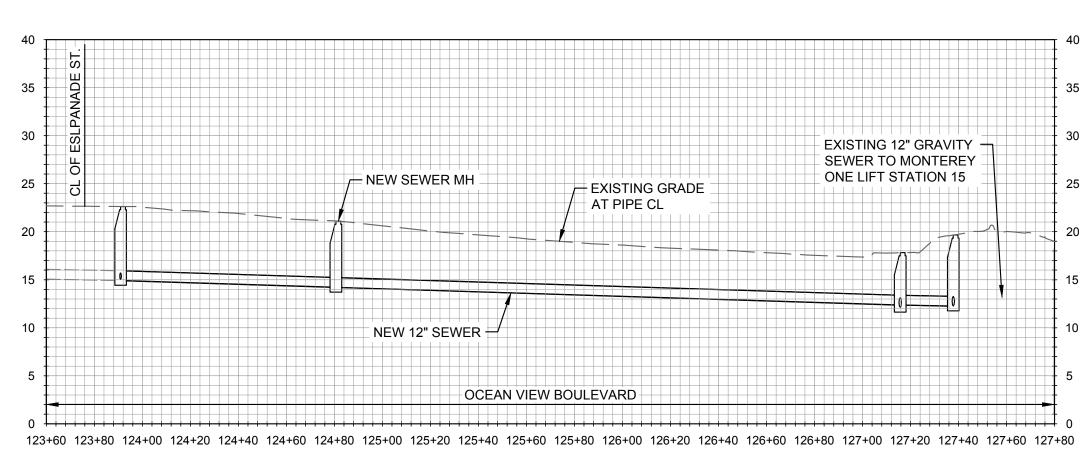
SEA PALM DIVERSION PROCESS SCHEMATIC

HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'

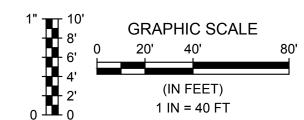


NEW 12" SEWER \pm OCEAN VIEW BOULEVARD

OCEAN VIEW BOULEVARD PROCESS SCHEMATIC HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'

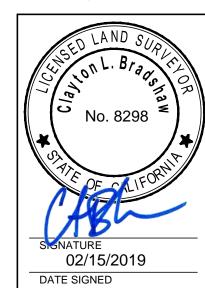


OCEAN VIEW BOULEVARD PROCESS SCHEMATIC
HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'



B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294



Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT

LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

www.wallacegroup.us



[NAD83(2011)], EPOCH DATE OF 2010.00. THE PROJECTION USED IS THE CALIFORNIA COORDINATE

NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT

THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY DESIGNATED "P171", HAVING A PUBLISHED POSITION OF: NORTHING 2,071,799.01', EASTING 5740865.23'; AND "P210", HAVING A PUBLISHED POSITION OF: NORTHING 2,191,599.30', EASTING 5,762,118.28' AND "P242" HAVING A PUBLISHED POSITION OF: NORTHING 2,239,623.44, EASTING 5842,017.42. THE RESULTING BEARING FROM "P171" TO "P210" BEING: N N2°44'23.09" W. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5

SYSTEM OF 1983 (CCS83), ZONE 4 PROJECTION.

VICINITY MAP

1 INCH = 60 FEET

- ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99994 THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 59.42 FEET FOR PT. NO. 21. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY
- THE CONVERGENCE ANGLE IS: -1°44′ 30′ AT PT. NO. 2.
- TIDAL 9 IS A VERTICAL ORDER FIRST CLASS I BENCHMARK LOCATED NEAR THE NORTHERLY END OF THE DEL MONTE AVENUE-LIGHTHOUSE AVENUE TUNNEL IN MONTEREY, CA. THE ELEVATION OF TIDAL 9 IS 25.16 FEET NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF
- THE CONTOUR INTERVAL IS 1 FOOT.
- UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
- UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
- 10. EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.
- GROUND SURVEY PERFORMED MARCH 2018 THROUGH
- ORTHOPHOTOGRAPHY AND AERIAL MAPPING PRODUCED BY: CENTRAL COAST AERIAL MAPPING, INC. 710 FIERO LANE #24 SAN LUIS OBISPO, CA 93401 PHONE: (805) 543-4307

PHOTOGRAPHY DATED: 03/28/2018

THE CONTOUR INTERVAL IS 1 FOOT

B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву



SURVEY CONTROL

48 | 2123547.17 | 5705162.75 | 59.62 | SET X147 | 2123574.83 | 5705351.20 | 54.82 | FOUND PK TC 173 | 2123061.95 | 5706416.24 | 40.79 | SET MAGWG GPS 174 | 2123225.96 | 5706348.35 | 35.76 | FK NAIL 179 | 2122926.27 | 5706471.99 | 36.75 | FK BOLT

311 | 2123482.25 | 5705927.82 | 40.74 | SET MAG NAIL

518 | 2123528.02 | 5705448.74 | 54.79 | SET X TC

GROVE **PACIFIC** OF CITY

POINT

LOVER'S

SURVEY

OGRAPHIC

JOB #: 1153-0003-01 DESIGNERS: SGT/KEA DRAWN BY: JSW

DATE: 02/15/19 DRAWING NO. S-1

7 OF 33 SHEETS

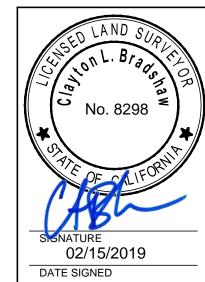
BALBOA AVE

SURVEY CONTROL

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us

SURVEYING / GIS SOLUTIONS WATER RESOURCES



These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

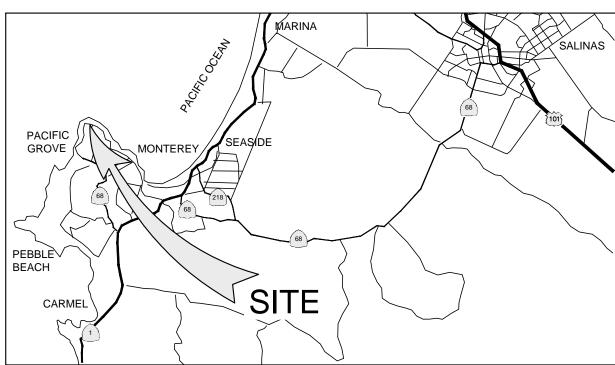
Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.

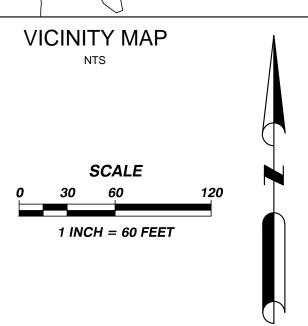


CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99994 THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 59.42 FEET FOR PT. NO. 21. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY

- TIDAL 9 IS A VERTICAL ORDER FIRST CLASS I BENCHMARK LOCATED NEAR THE NORTHERLY END OF THE DEL MONTE AVENUE-LIGHTHOUSE AVENUE TUNNEL IN MONTEREY, CA. THE ELEVATION OF TIDAL 9 IS 25.16 FEET NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF
- 7. THE CONTOUR INTERVAL IS 1 FOOT.
- UNDERGROUND UTILITY LOCATIONS ARE PLOTTED ABOVE GROUND SURFACE STRUCTURES. ACTUAL UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
- 9. UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
- HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.
- 11. GROUND SURVEY PERFORMED MARCH 2018 THROUGH
- PRODUCED BY: CENTRAL COAST AERIAL MAPPING, INC. 710 FIERO LANE #24 SAN LUIS OBISPO, CA 93401 PHONE: (805) 543-4307

B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву





SURVEY NOTES

SURVEY CONTROL POINTS

2126910.46 | 5703860.94 | 22.05 |

158 | 2127149.65 | 5703701.73 | 22.55 |

159 | 2127370.92 | 5703463.09 | 17.68 |

250 | 2127357.81 | 5703480.88 | 17.46 |

EASTING | ELEV.

249 | 2127235.32 | 5703637.28 | 20.35 | FK NLWSH HM10

DESC.

SET X TC

SET X TC

SET X TC

FK MAG

PT. NO. | NORTHING |

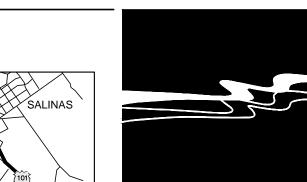
- 1. THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT [NAD83(2011)], EPOCH DATE OF 2010.00.
- 2. THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 4 PROJECTION.
- 3. THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (CORS). THOSE STATIONS ARE THE NGS POINTS DESIGNATED "P171", HAVING A PUBLISHED POSITION OF: NORTHING 2,071,799.01', EASTING 5740865.23'; AND "P210", HAVING A PUBLISHED POSITION OF: NORTHING 2,191,599.30', EASTING 5,762,118.28' AND "P242" HAVING A PUBLISHED POSITION OF: NORTHING 2,239,623.44, EASTING 5842,017.42. THE RESULTING BEARING FROM "P171" TO "P210" BEING: N N2°44'23.09" W. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.
- 4. ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE
- THE CONVERGENCE ANGLE IS: -1°44' 30" AT PT. NO. 2.

- BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND
- 10. EASEMENTS AFFECTING THE PROPERTY SHOWN
- 12. ORTHOPHOTOGRAPHY AND AERIAL MAPPING

PHOTOGRAPHY DATED: 03/28/2018

THE CONTOUR INTERVAL IS 1 FOOT

B	02/15/19	ISSUED FOR BID	JS\
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JS
Rev.	Date	Description of Revisions	Ву



ACIFIC Δ. SURVE OF CITY OGRAPHIC

GROVE

OVERVIEW

DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19

DRAWING NO. S-2 8 OF 33 SHEETS

PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

DATE SIGNED These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



7

SURV

GROVE

ACIFIC

Δ

OF

CITY

DESIGNERS: SGT/KEA

DRAWING NO.

S-3

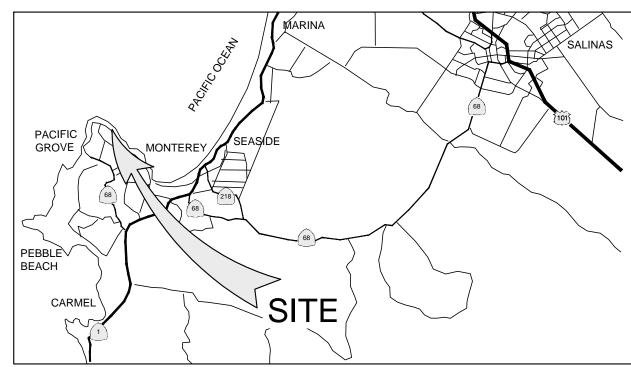
9 OF 33 SHEETS

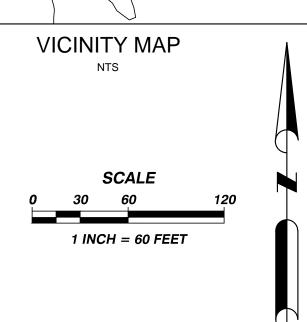
DRAWN BY: JSW DATE: 02/15/19

- 7. THE CONTOUR INTERVAL IS 1 FOOT.
- UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
- UNDERGROUND PIPE SIZES ARE BASED ON VISUAL APPROXIMATE.
- HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.
- 11. GROUND SURVEY PERFORMED MARCH 2018 THROUGH
- 12. ORTHOPHOTOGRAPHY AND AERIAL MAPPING PRODUCED BY: CENTRAL COAST AERIAL MAPPING, INC. 710 FIERO LANE #24 SAN LUIS OBISPO, CA 93401 PHONE: (805) 543-4307

PHOTOGRAPHY DATED: 03/28/2018

B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву







SURVEY CONTROL POINTS

| 2125215.07 | 5704391.60 | 33.42 | SET X TCGPS

156 | 2125787.52 | 5704239.81 | 35.60 | FK NAILWSH HM5

DESC.

SET CS

SETMAGPSS90

SET 5RBWG

PT. NO. | NORTHING | EASTING | ELEV.

22 | 2124827.68 | 5703884.24 | 66.37

53 | 2124820.46 | 5704371.78 | 34.84 |

152 | 2124858.32 | 5704459.21 | 30.86 |

- 1. THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT [NAD83(2011)], EPOCH DATE OF 2010.00.
- 2. THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 4 PROJECTION.
- THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (CORS). THOSE STATIONS ARE THE NGS POINTS DESIGNATED "P171", HAVING A PUBLISHED POSITION OF: NORTHING 2,071,799.01', EASTING 5740865.23'; AND "P210", HAVING A PUBLISHED POSITION OF: NORTHING 2,191,599.30', EASTING 5,762,118.28' AND "P242" HAVING A PUBLISHED POSITION OF: NORTHING 2,239,623.44, EASTING 5842,017.42. THE RESULTING BEARING FROM "P171" TO "P210" BEING: N N2°44'23.09" W. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.
- 4. ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99994 THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 59.42 FEET FOR PT. NO. 21. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY
- THE CONVERGENCE ANGLE IS: -1°44' 30" AT PT. NO. 2.
- TIDAL 9 IS A VERTICAL ORDER FIRST CLASS I BENCHMARK LOCATED NEAR THE NORTHERLY END OF THE DEL MONTE AVENUE-LIGHTHOUSE AVENUE TUNNEL IN MONTEREY, CA. THE ELEVATION OF TIDAL 9 IS 25.16 FEET NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF

- OBSERVATIONS MADE FROM THE SURFACE AND ARE
- 10. EASEMENTS AFFECTING THE PROPERTY SHOWN

THE CONTOUR INTERVAL IS 1 FOOT

		THE GOINT GOIN INTERVAL TO THE GOT	
B	02/15/19	ISSUED FOR BID	JSV
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSV
Rev.	Date	Description of Revisions	Ву





SURVEY CONTROL

FILE NAME: 1153-0003-01-LOVER'S POINT SHEETS.DWG

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

Line Table Line # | Length | Direction L10 | 11.39 | S20°15'17"E L11 | 62.48 | N24°21'54"E L12 | 60.70 | N24°21'54"E L13 | 50.45 | N19°00'25"W L14 | 57.79 | N68°48'40"W L15 | 187.04 | N68°48'46"W L20 | 10.09 | S65°32'50"E L30 37.92 N21°11'20"E

SEE SHEET C-2 - STA: 12+50

LINE A STA: 12+42.80

LINE C STA: 30+37.92 48" SD MH No. A6

48" SD MH No. A5

LINE E, SEE SHEET C-2

N: 2123550.88

E: 5705197.23

MATCHLINE -304 309

N: 2123571.77

\√E: 5705143.35

LINE C-

STA: 11+34.56-

N: 2123503.18

E: 5705213.67

48" SD MH No. A4

STA: 30+00.00-

N: 2123536.41

E: 5705129.65

24x24 Catch Basin SD DI 91

SDMH 20416

INV 18" PVC (NW)=52.91'

INV 18" PVC (W)=52.71'

INV 48' (SW)=50.51'

INV 48" (NE)=50.47'

RIM=58.46'

SD DI 20419

INV 15" CMP (W)=55.23'

INV 18" PVC (NE)=54.96'

(109)—/ |

48" SD MH No. A3

N: 2123447.89

E: 5705188.62

LINE A STA: 10+73.87

LINE B STA: 20+10.09

RIM=58.80'

		5	_
	REFER	ENCE NOTES:	
		DESCRIPTION	
	100	GENERAL NOTES	
"E	101	EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL	
"E		UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION.	
"E	103	EXISTING SEWER TO REMAIN.	-
"W	105	PROTECT EXISTING STORM DRAIN IN PLACE.	
"W	106	EXISTING STORM DRAIN TO REMAIN.	Wallace Gro
"W	107	EXISTING UTILITY TO REMAIN.	CIVIL AND TRANSPORTATION ENGI
	108	PROTECT EXISTING TREE AND TREE ROOTS.	CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE
"E	109	EXISTING 48" RCP STORM DRAIN TO REMAIN.	MECHANICAL ENGINEERING
"E	110	CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION.	PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS
	118	REPAVE TRENCH TO EDGE OF EXISTING WATER AND STORM DRAIN LINE TRENCH SAW CUT LINES ALONG JEWELL AVE.	WATER RESOURCES
	300	STORM DRAIN NOTES	612 CLARION COURT
	303	18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.	SAN LUIS OBISPO, CA T 805 544-4011 F 805 54
	304	STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16.	www.wallacegroup.us
	305	DIVERSION MANHOLE PER DETAIL P, SHEET C-18.	0.5500
	307	DIVERSION CATCH BASIN PER DETAIL R, SHEET C-18.	PROFESSIONAL
	309	BOLTED MANHOLE LID, MARKED "CAUTION MH UNDER PRESSURE".	PROFESSIONAL LEE WAGNER
	311	DIVERSION CATCH BASIN PER DETAIL S, SHEET C-18.	No. 66026
	314	CAUTION- NEW CONSTRUCTION CLOSE TO EXISTING 60" MH, PROTECT EXCAVATION AND STRUCTURE IN PLACE.	NO. OOUZO
	319	24" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR	

DETAIL C, SHEET C-16.



WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.





___L10

STA: 10+11.39

48" SD MH No. A2 N: 2123390.97 E: 5705162.85

STA: 10+00.00

60" SD MH No. A1

N: 2123380.29

E: 5705166.79

CALEDONIA AVE.

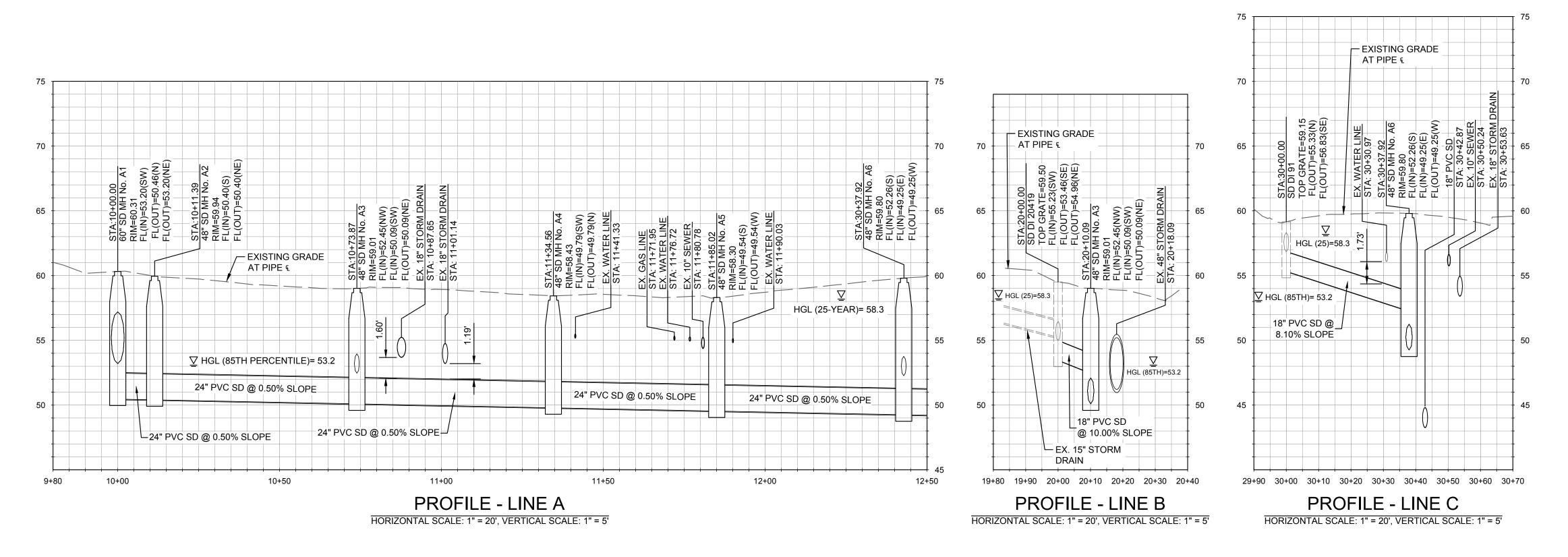
SDMH 20510

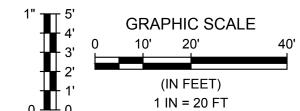
- INV 48" (S)=57.91'

INV 48" (N)=57.36'

INV 48" (SE)=57.36'

RIM=64.37'





,	B	02/15/19	ISSUED FOR BID	JSW
	A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Rev.	Date	Description of Revisions	Ву

CITY OF PACIFIC GROVE

PACIFIC GROVE - MONTEREY ASBS

WET - DRY WEATHER STORM WATER

CAPTURE AND DIVERSION PROJECT

LOVER'S POINT STORM DRAIN STA. 10+00 TO STA. 12+50

DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19

DRAWING NO. C-1

10 OF 33 SHEETS

SEE HOLE 6 GOLF COURSE

IMPROVEMENTS, SHEETS C-8 AND C-9

LOVER'S POINT UNDERGROUND RESERVOIR

VOLUME: 49,075 CU. FT.

TOP ELEVATION: 53.20 (INTERIOR)

BOTTOM ELEVATION: 46.70 (INTERIOR)

SEE DETAIL 1, THIS

SDMH 20361

RIM=65.70'

STA: 40+00.00

SDMH 20361

N: 2123657.79

E: 5704965.25

SHEET

STA: 40+22.74-

N: 2123679.06

E: 5704973.30

JEWELL AVE.

INV 18" PVC (W)=61.70'

INV 18" PVC (E)=58.80'

MANHOLE

48" SD MH No. D1

MAINTENANCE BYPASS

TOP ELEV: 53.20

UNDERGROUND STORAGE

RESERVOIR

BOTTOM ELEV: 46.70

STA: 40+46.31

LINE D

9.82

Line Table

612 CLARION COURT T 805 544-4011 F 805 544-4294

SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER IVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE REMOVE AND REPLACE EXISTING CHAIN LINK FENCE AS NECESSARY TO MECHANICAL ENGINEERING REMOVE AND REPLACE EXISTING SIDEWALK, CURB, AND GUTTER, AS PUBLIC WORKS ADMINISTRATION NECESSARY TO ACCOMMODATE STORM DRAIN CONSTRUCTION, PER SURVEYING / GIS SOLUTIONS DETAILS D AND H, SHEET C-16. LIMITS SHOWN ARE APPROXIMATE. WATER RESOURCES REMOVE AND REPLACE EXISTING LANDSCAPING AS NECESSARY TO REPAVE TRENCH TO EDGE OF EXISTING WATER AND STORM DRAIN LINE

www.wallacegroup.us



WALLACE GROUP®

SAN LUIS OBISPO, CA 93401

UNDERGROUND RESERVOIR. VOLUME AND MAXIMUM DIMENSIONS AS SHOWN. SEE SPECS SECTION 33 47 26. SUBGRADE, SLAB, AND BACKFILL CONNECT TO UNDERGROUND RESERVOIR. CONNECTIONS OPENINGS TO BE PRECAST BY TANK MANUFACTURER. SEAL ANNULUS WITH GROUT. 18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR 24" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR



DESCRIPTION **GENERAL NOTES** 100 EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF CONSTRUCTION. EXISTING SEWER TO REMAIN. 105 PROTECT EXISTING STORM DRAIN IN PLACE. EXISTING STORM DRAIN TO REMAIN. N20°44'33"E COMPLETING CONSTRUCTION. ACCOMMODATE STORM DRAIN CONSTRUCTION.

117

118

300

304

309

319

ACCOMMODATE CONSTRUCTION.

STORM DRAIN NOTES

DETAIL C, SHEET C-16.

DETAIL C, SHEET C-16.

TRENCH SAW CUT LINES ALONG JEWELL AVE.

STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16.

DIVERSION MANHOLE PER DETAIL Q, SHEET C-18.

SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF TANK.

BOLTED MANHOLE LID, MARKED "CAUTION MH UNDER PRESSURE".

PER MANUFACTURER'S REQUIREMENTS.

PLAN - JEWELL AVENUE SCALE: 1" = 20'

EXISTING GRADE

HGL (25-YEAR)= 58.3

24" PVC SD @ 0.50% SLOPE

HGL (85TH PERCENTILE)= 53.2

PROFILE - LINE A

HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'

└-24" PVC SD @ 0.50% SLOPE

LINE A

LINE E, SEE

SHEET C-3

(117)

-(301)

∼STA: 14+68.49

N: 2123675.51

E: 5704982.65

MANHOLE

48" SD MH No. A8

MAINTENANCE BYPASS

-STA: 14+92.06

STA: 14+29.84

N: 2123639.36

E: 5704968.96

48" SD MH No. A7

EXISTING GRADE HGL (25-YEAR)=58.3 TOP ELEV: 53.20 UNDERGROUND STORAGE 18" PVC SD @ RESERVOIR 19.85% SLOPE BOTTOM ELEV: 46.70

LINE A SECTION

LINE D SECTION

18" DUCTILE IRON DOUBLE BALL EXPANSION JOINT BY

STATE STANDARD 90-1.01, 565 LBS/CY CEMENTITIOUS

24" DUCTILE IRON DOUBLE BALL EXPANSION JOINT BY

24" GATE VALVE W/ SINGLE PIECE OF 8" PVC C900 RISER TO GRADE, VALVE BOX - BROOKS NO. 3RT OR APPROVED EQUAL W/ EXTENSIONS TO VALVE, 10" MIN. THICK, 7" WIDE CONCRETE

COLLAR. BEARING CONCRETE COLLAR SHALL CONFORM TO STATE STANDARD 90-1.01, 565 LBS/CY CEMENTITIOUS

MATERIAL [6 SACK], TROWELLED TO FINISHED GRADE, AND ALLOWED TO CURE 48 HOURS PRIOR TO FULL TRAFFIC USE.

LINE A AND LINE D INLET DETAIL

Scale: 3/16" = 1'-0"

M 24" RESTRAINED JOINT COUPLING ADAPTER, PE X PE

E 18" RESTRAINED JOINT COUPLING ADAPTER, PE X PE

18" GATE VALVE W/ SINGLE PIECE OF 8" PVC C900 RISER TO

GRADE, VALVE BOX - BROOKS NO. 3RT OR APPROVED EQUAL

W/ EXTENSIONS TO VALVE, 10" MIN. THICK, 7" WIDE CONCRETE

COLLAR. BEARING CONCRETE COLLAR SHALL CONFORM TO

MATERIAL [6 SACK], TROWELLED TO FINISHED GRADE, AND

ALLOWED TO CURE 48 HOURS PRIOR TO FULL TRAFFIC USE.

BILL OF MATERIALS

B 18" DUCTILE IRON SPOOL, PE X FLG

FLEX-TEND OR APPROVED EQUAL

F 18" PVC PIPE, C900 CLASS 165, PE X PE

H 18" PVC ELBOW - 11-1/4 DEGREE

J 24" DUCTILE IRON SPOOL, PE X FLG

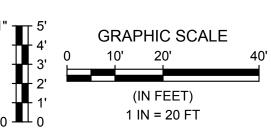
FLEX-TEND OR APPROVED EQUAL

N 24" PVC PIPE, C900 CLASS 165, PE X PE

DESCRIPTION

PROFILE - LINE D HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'

12+50

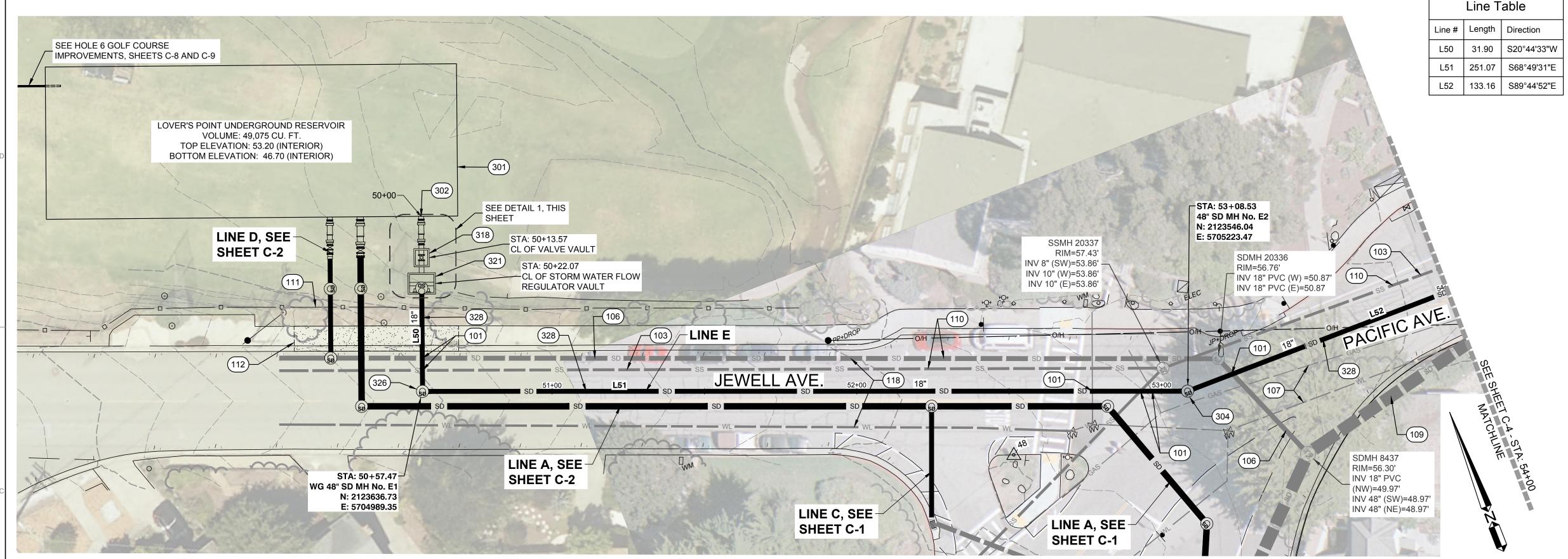


B	02/15/19	ISSUED FOR BID	JS
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JS
Rev.	Date	Description of Revisions	В

DATE: 02/15/19

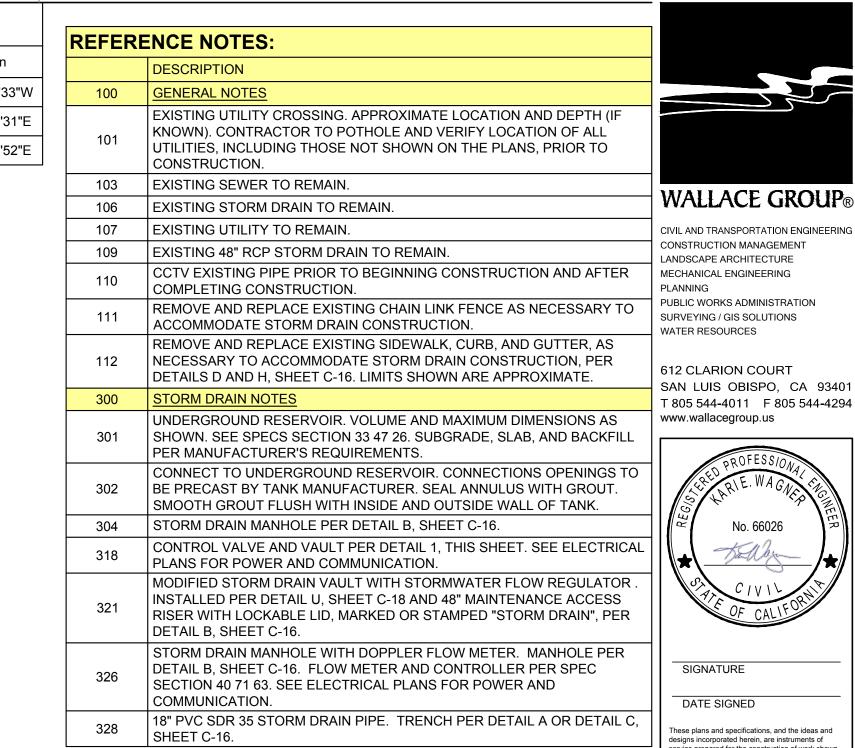
DRAWING NO. C-2 11 OF 33 SHEETS

GRAPHIC SCALE (IN INCHES) 3/16" = 1'-0"



PLAN - JEWELL AVENUE SCALE: 1" = 20'

PROFILE - LINE E HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'



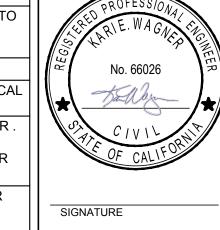
OUTLET DETAIL

Rev.

Date

1 IN = 20 FT

(IN INCHES) 3/16" = 1'-0"



CIVIL AND TRANSPORTATION ENGINEERING

SAN LUIS OBISPO, CA 93401

T 805 544-4011 F 805 544-4294

CONSTRUCTION MANAGEMENT

PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS

612 CLARION COURT

WATER RESOURCES

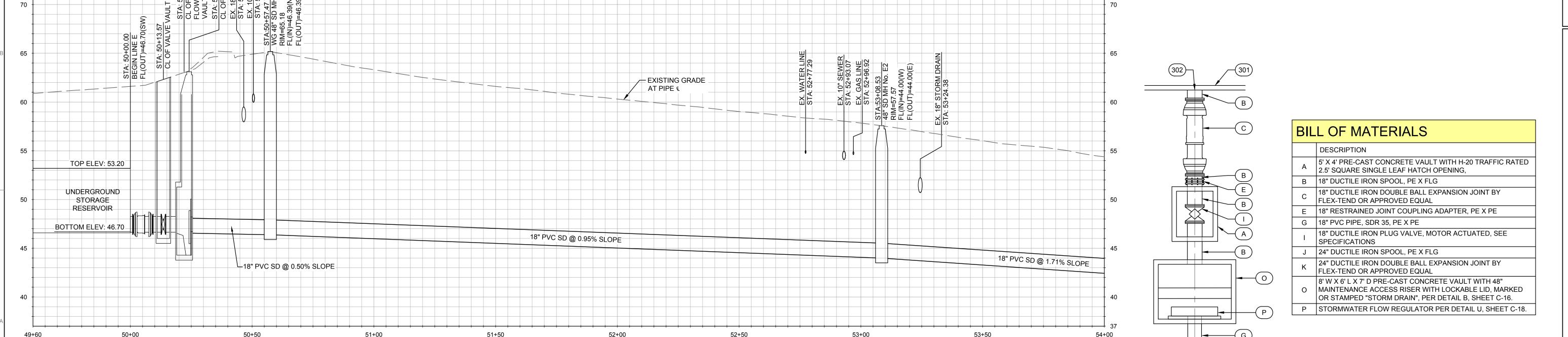
LANDSCAPE ARCHITECTURE

DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.





Scale: 3/16" = 1'-0"

ISSUED FOR BID

100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW

Description of Revisions

DATE: 02/15/19 DRAWING NO.

12 OF 33 SHEETS

FILE NAME: 1153-0003-01-LOVER'S POINT SHEETS.DWG

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REFERENCE NOTES: DESCRIPTION **GENERAL NOTES** 100 EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL S60°46'50"E UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION. EXISTING SEWER TO REMAIN. 106 EXISTING STORM DRAIN TO REMAIN. 107 EXISTING UTILITY TO REMAIN. 109 EXISTING 48" RCP STORM DRAIN TO REMAIN. CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION. 300 STORM DRAIN NOTES STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16. 304 CAUTION- NEW CONSTRUCTION CLOSE TO EXISTING 48" MH, PROTECT EXCAVATION AND STRUCTURE IN PLACE. 18" PVC SDR 35 STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, 328

WALLACE GROUP®

PUBLIC WORKS ADMINISTRATION

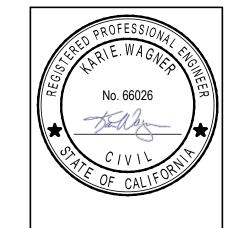
SURVEYING / GIS SOLUTIONS

WATER RESOURCES

www.wallacegroup.us

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.

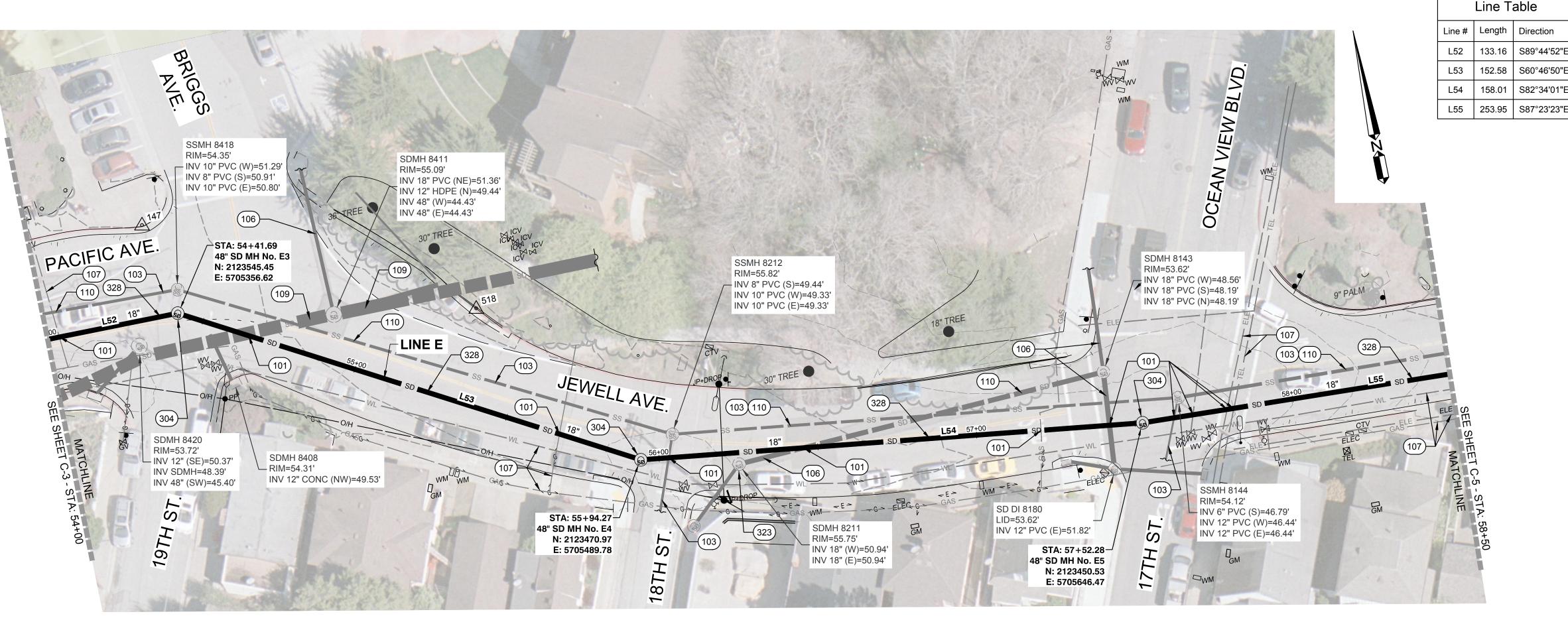


DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19

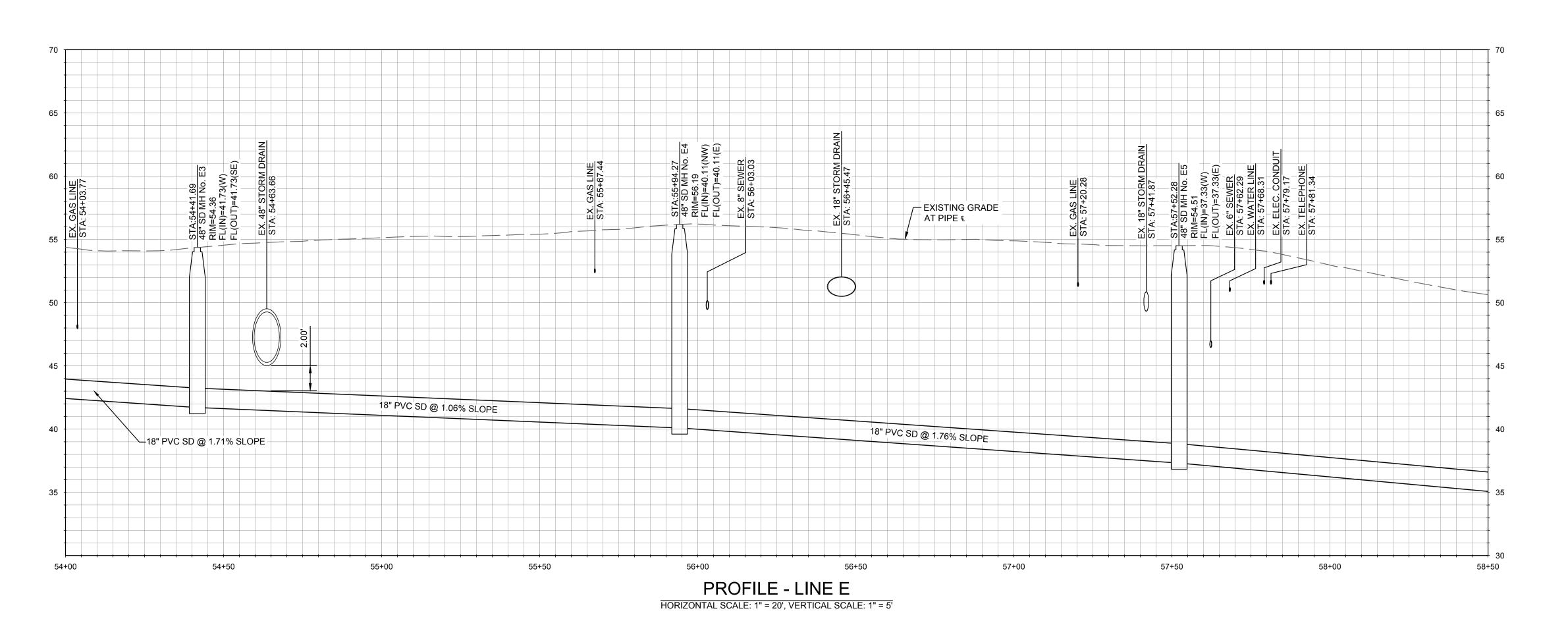
DRAWING NO. C-4

13 OF 33 SHEETS

ISSUED FOR BID 100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW 01/16/19 JSW Description of Revisions Date Rev.



PLAN - JEWELL AVENUE SCALE: 1" = 20'



(IN FEET) 1 IN = 20 FT

INV DI IN SDMH=33.00' \$ 000000 (C.M. ~ 90

INV 12" CONC (NW)=36.25'

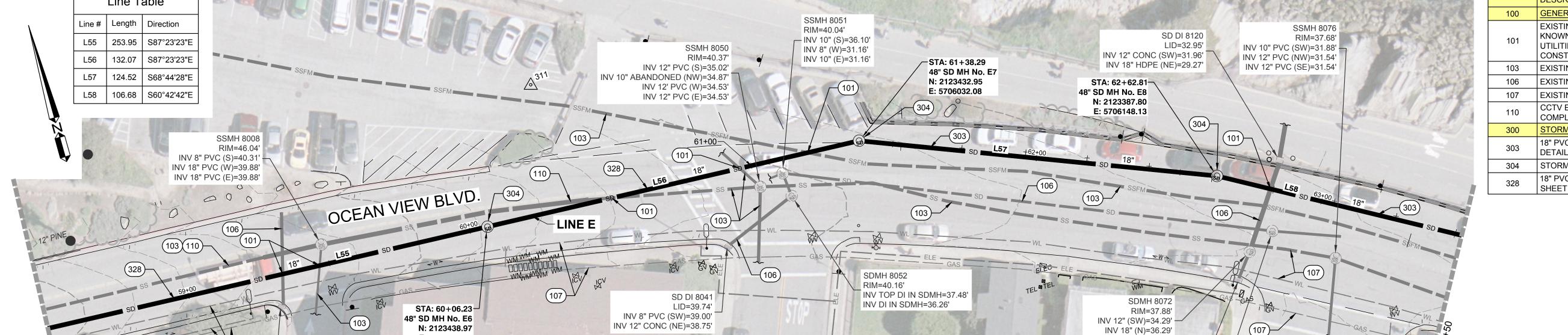
SD DI 8081 LID=37.08' -

SDMH 8073 RIM=37.64'

INV 8" (SW)=32.95' -

INV 10" (NW)=29.35'

INV 10" (SE)=29.35'



PLAN - OCEAN VIEW BLVD. SCALE: 1" = 20'

E: 5705900.15

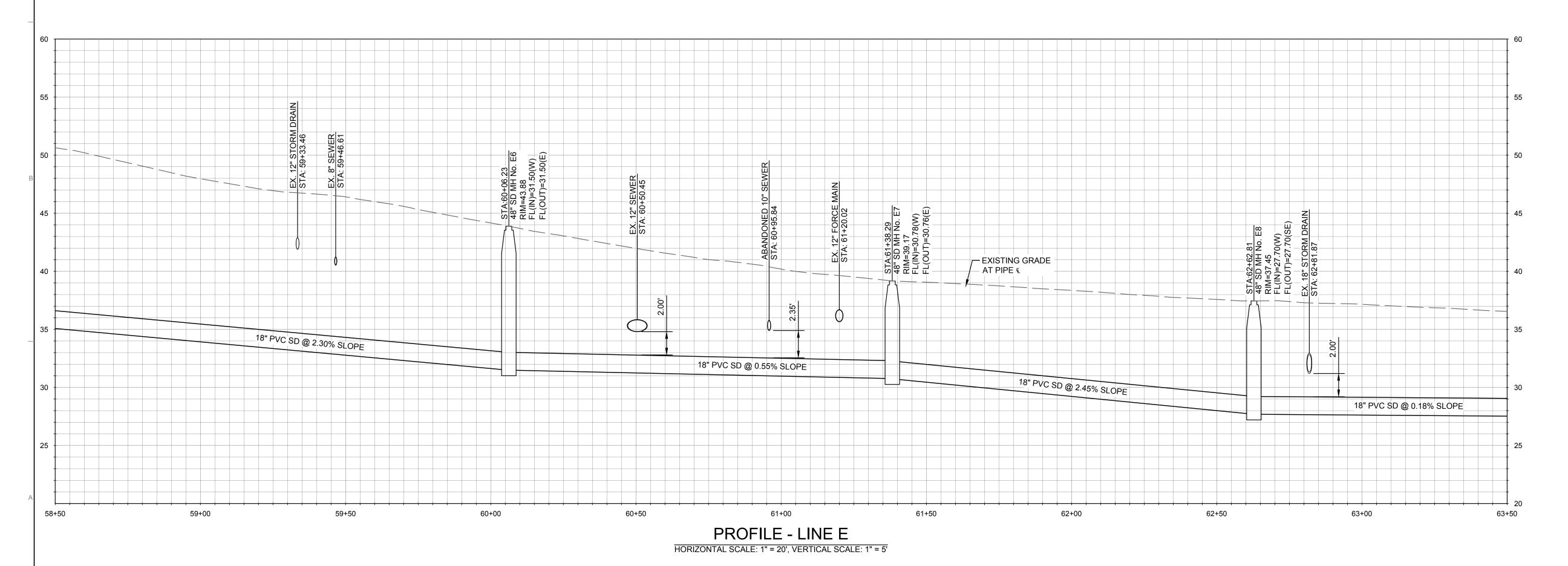
SD DI 8000

LID=45.53'

16TH

INV 6" PVC (SW)=44.18'

INV 12" CONC (NE)=42.89'



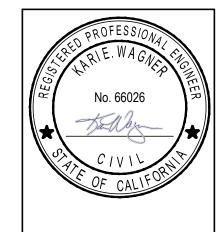
(IN FEET) 1 IN = 20 FT

-	A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Rev.	Date	Description of Revisions	Ву

WALLACE GROUP®

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19

DRAWING NO. C-5

14 OF 33 SHEETS

REFERENCE NOTES: DESCRIPTION

GENERAL NOTES 100 EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION.

EXISTING SEWER TO REMAIN.

EXISTING STORM DRAIN TO REMAIN.

CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION. REMOVE AND REPLACE DRIVEWAY, AS NECESSARY TO ACCOMMODATE STORM DRAIN CONSTRUCTION, PER DETAIL V, SHEET C-18.

200 SANITARY SEWER NOTES

EXISTING UTILITY TO REMAIN.

SEWER MANHOLE PER DETAIL E, SHEET C-16 WITH FLAP GATE ON STORM DRAIN PIPE PER DETAIL EE, SHEET C-19. COAT MANHOLE INTERIOR PER SPECIFICATION SECTION 09 97 23, 209

CONCRETE AND MASONRY COATINGS. 300 STORM DRAIN NOTES

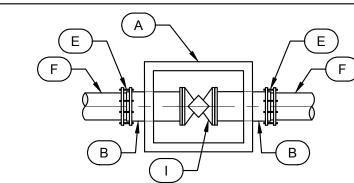
303 DETAIL C, SHEET C-16. 304 STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16. CONTROL VALVE AND VAULT PER DETAIL 1, THIS SHEET. SEE ELECTRICAL

EMERGENCY OVERFLOW. 18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.

PLANS FOR POWER AND COMMUNICATION.

CATCH BASIN PER DETAIL F, SHEET C-16. NEW 18" INVERT TO MATCH EXISTING BOTTOM OF CATCH BASIN.

18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR



BILL OF MATERIALS

DESCRIPTION

5' X 4' PRE-CAST CONCRETE VAULT WITH H-20 TRAFFIC RATED 2.5' SQUARE SINGLE LEAF HATCH OPENING,

B | 18" DUCTILE IRON SPOOL, PE X FLG

E 18" RESTRAINED JOINT COUPLING ADAPTER, PE X PE F 18" PVC PIPE, C900 CLASS 165, PE X PE

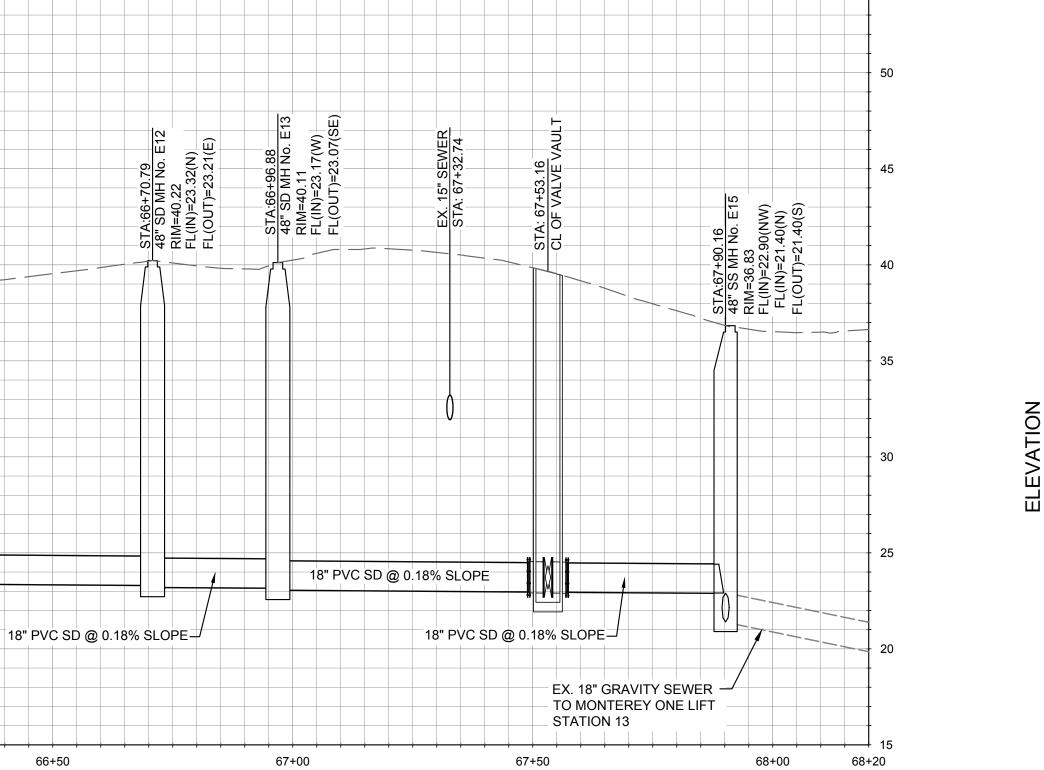
18" DUCTILE IRON PLUG VALVE, MOTOR ACTUATED, SEE SPECIFICATIONS

EXISTING

GRADE AT PIPE €

VALVE VAULT DETAIL

Scale: 3/16" = 1'-0"



PROFILE - EMERGENCY OVERFLOW HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5^{-}

40'	B	02/15/19	ISSUED FOR BID	JSW
	A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Rev.	Date	Description of Revisions	Ву

18" PVC SD @ 4.54% SLOPE- WALLACE GROUP®

PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING

WATER RESOURCES **612 CLARION COURT**

SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.

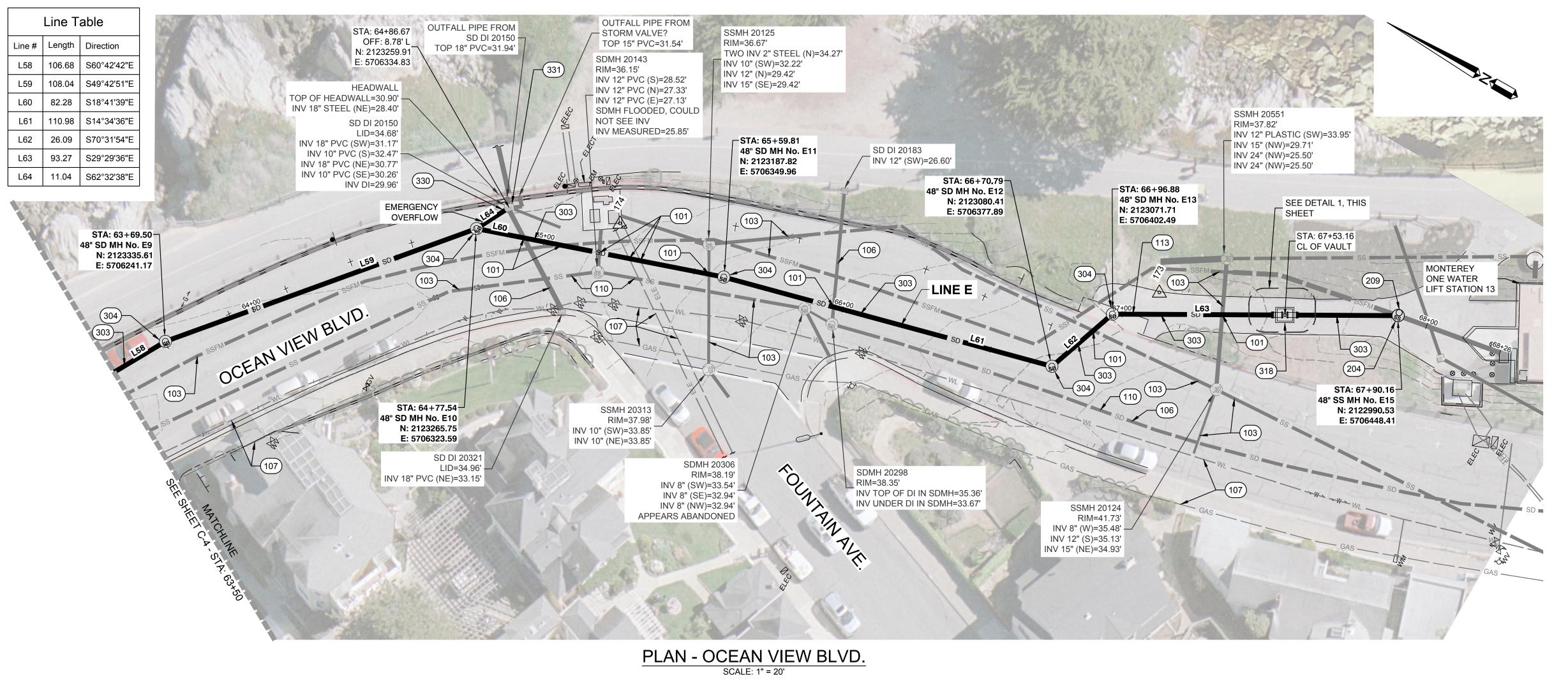
These plans and specifications, and the ideas and



DESIGNERS: SGT/KEA DRAWN BY: JSW

DATE: 02/15/19 DRAWING NO.

C-6 15 OF 33 SHEETS



63+50

18" PVC SD @ 3.47% SLOPE

18" PVC SD @ 0.18% SLOPE

64+50 65+00

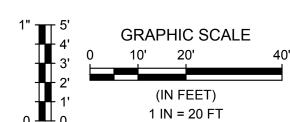
> PROFILE - LINE E HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'

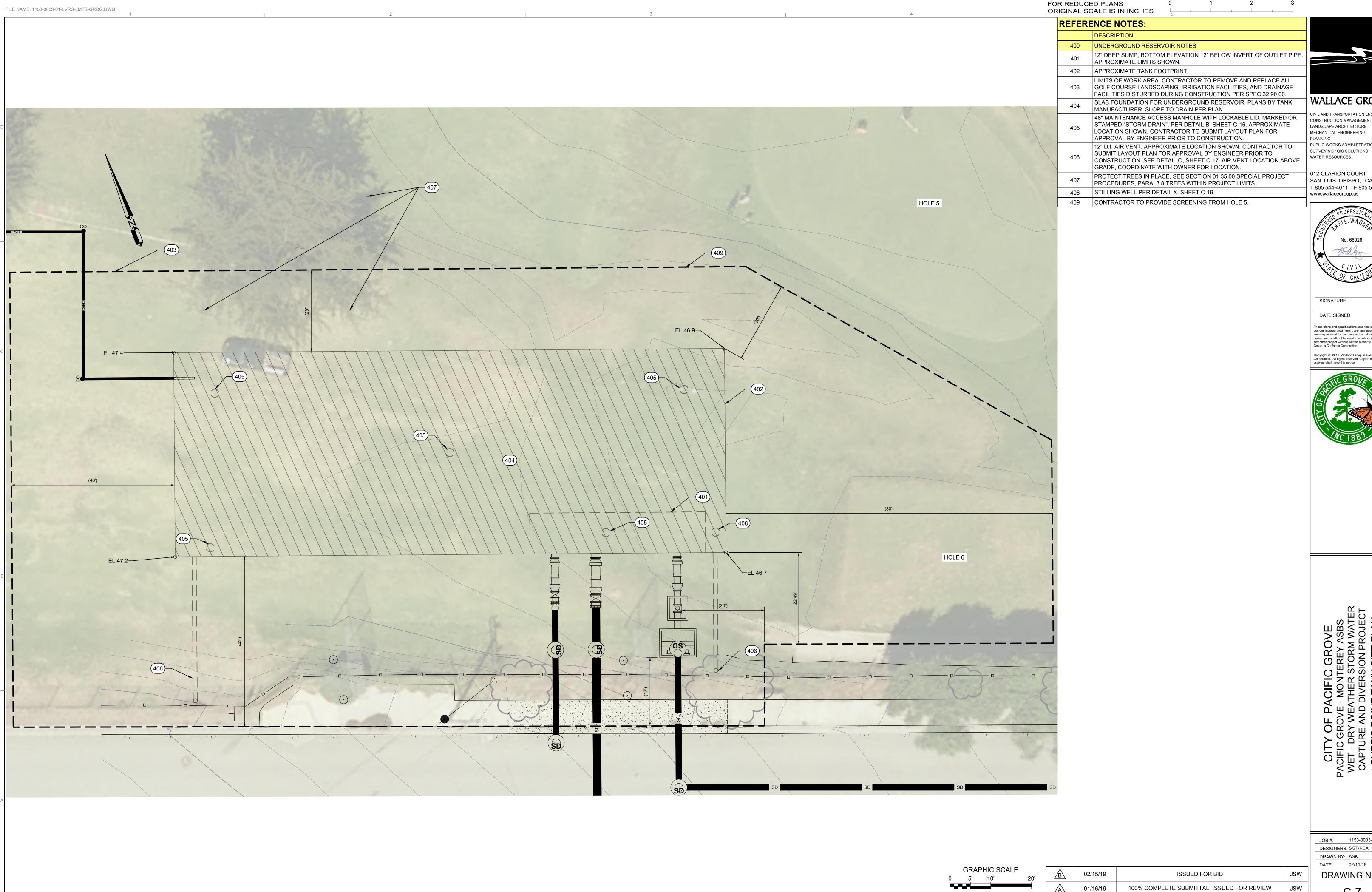
EXISTING GRADE-

AT PIPE &

18" PVC SD @ 0.18% SLOPE

GRAPHIC SCALE (IN INCHES) 3/16" = 1'-0"





WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2018 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19

Description of Revisions

(IN FEET)

1 IN = 10 FT

Rev.

Date

DRAWING NO. C-7

16 OF 33 SHEETS

FOR REDUCED PLANS FILE NAME: 1153-0003-01-LVRS-LNDS.DWG ORIGINAL SCALE IS IN INCHES **REFERENCE NOTES:** Line Table DESCRIPTION Line # | Length | Direction 500 LANDSCAPE NOTES L200 | 11.09 | S58°02'54"W REPLACE EXISTING STRUCTURE WITH 24" x 24" OPEN BOTTOM 501 CONCRETE BOX AND A MINIMUM OF 6" GRAVEL BELOW LOWEST L201 | 197.39 | S68°47'25"E INVERT. RECONNECT ALL EXISTING SD LINES INTO STRUCTURE. 502 6" PVC SDR 35 STORM DRAIN PIPE. L202 | 56.52 | S21°12'35"W 503 FRENCH DRAIN PER DETAIL 1, SHEET C-8. L203 41.87 S68°47'25"E 504 | CLEANOUT PER DETAIL 2, SHEET C-8. WALLACE GROUP® L204 | 218.00 | S68°47'25"E PLUG EXISTING LINE WITH 2 FEET OF CONCRETE, SLURRY 505 BACKFILL. CIVIL AND TRANSPORTATION ENGINEERING L300 | 413.55 | S68°47'25"E CONSTRUCTION MANAGEMENT 506 WYE CONNECTION FITTING. LANDSCAPE ARCHITECTURE L301 | 102.80 | N21°15'19"E MECHANICAL ENGINEERING NOTE: PROTECT IRRIGATION SYSTEM IN PLACE. PLANNING L302 7.87 N65°28'45"E PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES 612 CLARION COURT T 805 544-4011 F 805 544-4294 www.wallacegroup.us 24" X 24" CONCRETE BOX RIM (APPROX)=63.00 SLOPE=0.50%-FL(OUT)=61.00 EG (APPROX)= 64.00 ABANDÓN FL(OUT)= 62.00 502 FL(IN)=59.96 FL(OUT)=59.96 SLOPE=0.50% SIGNATURE L201 24" X 24" Concrete Box DATE SIGNED RIM (APPROX)=63.00 These plans and specifications, and the ideas and FL(IN)=60.94 designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation. FL(OUT)=60.94 Copyright © 2018 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice. EG (APPROX)= 64.00 FL(IN)=59.44 JEWELL AVENUE FL(IN)=59.44 504 FL(OUT)=59.44 L203 502 SLOPE=0.50% L302-(502)— -SLOPE=6.89% EG (APPROX)= 64.00 FL(IN)=59.68 FL(OUT)=59.68 1. 6" SCHEDULE 80 PERFORATED PVC DRAIN PIPE PER SPEC SECTION 33 31 00. PERFORATIONS PLACED DOWN. FRENCH DRAIN DETAIL NTS 502 BEGIN FRENCH DRAIN EG (APPROX)= 74.00 FL(OUT)=73.00 SLOPE=1.45% 504 EG (APPROX)= 68.00 FL(IN)=67.00 —/ FL(OUT)=67.00 APPROXIMATE ALIGNMENT SHOWN. CONTRACTOR TO ADJUST AS NECESSARY TO LOW POINT BETWEEN SLOPE AND FAIRWAY. NOTE: 1. 6" PVC WYE FITTING. 2. CONTAIN CLEANOUT IN OLDCASTLE F08 IRRIGATION BOX OR EQUAL AND REINFORCED CONCRETE LID STAMPED WITH "C.O." PER DETAIL W, SHEET C-18. CLEANOUT DETAIL NTS DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19 GRAPHIC SCALE DRAWING NO.

SAN LUIS OBISPO, CA 93401

JSW

ISSUED FOR BID

Description of Revisions

02/15/19

Date

Rev.

(IN FEET) 1 IN = 20 FT

C-8 17 OF 33 SHEETS FILE NAME: 1153-0003-01-LVRS-LNDS.DWG

EG (APPROX)= 64.00 FL(IN)=58.09

LOVER'S POINT UNDERGROUND RESERVOIR

EG (APPROX)= 64.00

SLOPE=0.50%

FL(IN)=58.38

EG (APPROX)= 64.00 FL(IN)=58.20 FL (OUT)= 58.20

L206 SLOPE=0.50% L204 L205

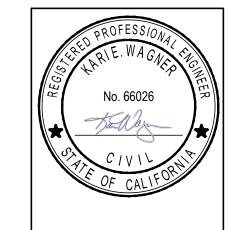
508

	ORIGINAL SCALE IS IN INCHES 5						
Line Table		REFER	ENCE NOTES:				
			DESCRIPTION				
Len	gth	Direction	500	LANDSCAPE NOTES			
218	.00	S68°47'25"E	502	6" PVC SDR 35 STORM DRAIN PIPE.			
36.0	00	S21°12'45"W	504	CLEANOUT PER DETAIL 2, SHEET C-8.			
30.		321 12 43 W	507	CONNECT TO TOP OF UNDERGROUND STORAGE RESERVOIR.			
22.	13	S69°15'12"E	508	APPROXIMATE LIMITS OF REMOVE AND REPLACE GOLF CART PATH. CART PATH PER DETAIL 1, SHEET C-9. CONTRACTOR TO COORDINATE WITH			
			300	GOLF COURSE SUPERINTENDENT AND ENGINEER ON LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.	WALLACE GROUP®		
			509	EXTEND GOLF CART PATH TO APPROXIMATE LIMITS. CART PATH PER DETAIL 1, SHEET C-9. CONTRACTOR TO COORDINATE WITH GOLF COURSE SUPERINTENDENT AND ENGINEER ON LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.	CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING		
			510	CONSTRUCT 25' X 15' LADIE'S TEE PER SPEC 32 90 00. CONTRACTOR TO COORDINATE WITH GOLF COURSE SUPERINTENDENT AND ENGINEER ON LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.	PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES		

NOTE: PROTECT IRRIGATION SYSTEM IN PLACE.

FOR REDUCED PLANS

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2018 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



10' WIDTH OF SIDEWALK

4" CLASS 2 AGGREGATE BASE __/ MATERIAL UNDER CART PATH

CART PATH DETAIL

SRAF 10'	PHIC SCAL	E 40'	
(IN FEET)		
,	IN = 20 FT		Re

B	02/15/19	ISSUED FOR BID	JSV
Rev.	Date	Description of Revisions	Ву

DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19 DRAWING NO.

NTS

C-9 18 OF 33 SHEETS

L70 9.19 N57°22'22"W

L71 | 115.91 | N33°17'25"E

L72 | 60.97 | N56°42'35"W

L73 | 32.76 | N56°42'35"W

L80 | 69.77 | N33°17'25"E

L81 | 99.52 | N33°17'25"E

L90 | 27.04 | S56°42'35"E

L91 | 54.97 | S56°42'35"E

STA: 70+10.69-

N: 2124804.62

E: 5703899.45

70+00-

SD DI 8707

INV 12" PVC (NE)=61.42 -

INV 24" (SE)=59.31'

INV 24" CMP=59.30'

LID=65.40'

48" SD MH No. F1

Line # | Length | Direction

ORIGINAL SCALE IS IN INCHES

REFERENCE NOTES:

DESCRIPTION GENERAL NOTES EXISTING SEWER TO REMAIN. 103 106 EXISTING STORM DRAIN TO REMAIN. REMOVE AND REPLACE ROLLED CURB AND GUTTER PER DETAIL I, SHEET

> REPLACE EXISTING SEWER PIPE WITH 10" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. CONTRACTOR TO VERIFY AND MATCH EXISTING INVERTS OR NEW INVERTS SHOWN ON PROFILES, RECONNECT ALL EXISITING SEWER LATERALS.

RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.

UNDERGROUND RESERVOIR. VOLUME AND MAXIMUM DIMENSIONS AS SHOWN. SEE SPECS SECTION 33 47 26. SUBGRADE, SLAB, AND BACKFILL PER MANUFACTURER'S REQUIREMENTS.

SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF TANK.

DETAIL C, SHEET C-16.

DIVERSION CATCH BASIN PER DETAIL T, SHEET C-18.

18" PVC SDR 35 STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C,

114 SANITARY SEWER NOTES SEWER MANHOLE PER DETAIL E, SHEET C-16 WITH FLAP GATE ON STORM DRAIN PIPE PER DETAIL EE, SHEET C-19. 300 STORM DRAIN NOTES

CONNECT TO UNDERGROUND RESERVOIR. CONNECTIONS OPENINGS TO BE PRECAST BY TANK MANUFACTURER. SEAL ANNULUS WITH GROUT. 18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR

STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16. BOLTED MANHOLE LID. MARKED "CAUTION MH UNDER PRESSURE". 309 312

PLANS FOR POWER AND COMMUNICATION. STORM DRAIN MANHOLE WITH DOPPLER FLOW METER. MANHOLE PER DETAIL B, SHEET C-16. FLOW METER AND CONTROLLER PER SPEC SECTION 40 71 63. SEE ELECTRICAL PLANS FOR POWER AND COMMUNICATION.

328 SHEET C-16.

CONTROL VALVE AND VAULT PER DETAIL 1, THIS SHEET. SEE ELECTRICAL

WALLACE GROUP®

CONSTRUCTION MANAGEMENT

PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS

612 CLARION COURT

www.wallacegroup.us

SAN LUIS OBISPO, CA 93401

T 805 544-4011 F 805 544-4294

WATER RESOURCES

LANDSCAPE ARCHITECTURE

MECHANICAL ENGINEERING

PLANNING

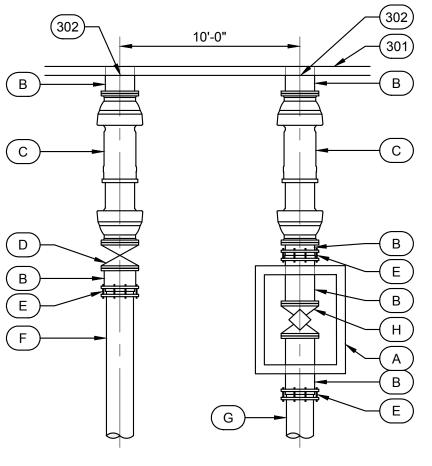
SIGNATURE

DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.





BILL OF MATERIALS

DESCRIPTION

RIM=53.66'

- INV 8" CLAY (SW) = 46.40'

INV 10" CLAY (NW)=46.40'

INV 10" CLAY (SE)=46.40'

5' X 4' PRE-CAST CONCRETE VAULT WITH H-20 TRAFFIC RATED 2.5' SQUARE SINGLE LEAF HATCH OPENING,

B 18" DUCTILE IRON SPOOL, PE X FLG 18" DUCTILE IRON DOUBLE BALL EXPANSION JOINT BY FLEX-TEND OR APPROVED EQUAL

18" GATE VALVE W/ SINGLE PIECE OF 8" PVC C900 RISER TO GRADE, VALVE BOX - BROOKS NO. 3RT OR APPROVED EQUAL W/ EXTENSIONS TO VALVE, 10" MIN. THICK, 7" WIDE CONCRETE COLLAR. BEARING CONCRETE COLLAR SHALL CONFORM TO STATE STANDARD 90-1.01, 565 LBS/CY CEMENTITIOUS MATERIAL [6 SACK], TROWELLED TO FINISHED GRADE, AND

ALLOWED TO CURE 48 HOURS PRIOR TO FULL TRAFFIC USE. E 18" RESTRAINED JOINT COUPLING ADAPTER, PE X PE

F | 18" PVC PIPE, C900 CLASS 165, PE X PE

G 18" PVC PIPE, SDR 35, PE X PE 18" DUCTILE IRON PLUG VALVE, MOTOR ACTUATED, SEE

SPECIFICATIONS

GRAPHIC SCALE

(IN INCHES)

3/16" = 1'-0"

BYPASS DETAIL

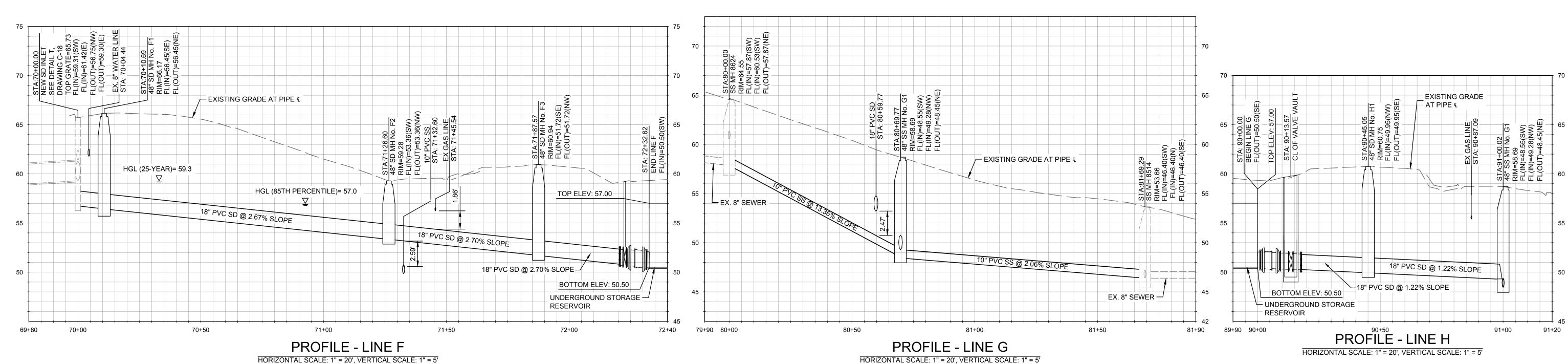
Scale: 3/16" = 1'-0"

(IN FEET)

1 IN = 20 FT

Rev.

Date



SEA PALM UNDERGROUND RESERVOIR VOLUME: 6,492 CU. FT.

TOP ELEVATION: 57.00 (INTERIOR)

BOTTOM ELEVATION: 50.50 (INTERIOR)

STA: 72+32.57

(304)-

(303)—

STA: 71+26.60-

N: 2124901.51

E: 5703963.07

PLAN - DEL MONTE BLVD. SCALE: 1" = 20'

48" SD MH No. F2

LINE G

STA: 71+87.57

N: 2124934.97

E: 5703912.10

MANHOLE

(205)

/80+00

LINE F

48" SD MH No. F3

MAINTENANCE BYPASS

STA: 80+00.00

SS MH 8624

N: 2124854.84

E: 5703925.25

(309) -(304)

SEE DETAIL 1, THIS

CL OF VALVE VAULT

STA: 90+13.57

-STA: 80+69.77

N: 2124943.33

-(326) E: 5703917.59

48" SD MH No. H1

LINE G

STA: 81+69.29

SS MH 8514

N: 2124996.35

E: 5704018.17

DEL MONTE BLVD

LINE G STA: 80+69.77

48" SS MH No. G1

N: 2124913.16

E: 5703963.54

LINE H STA: 91+00.02

(205)

CITY C PACIFIC (WET - DR) CAPTURE 1 STORM

DESIGNERS: SGT/KEA DRAWN BY: JSW

DATE: 02/15/19 DRAWING NO.

19 OF 33 SHEETS

ISSUED FOR BID

100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW

Description of Revisions

L100 | 481.31 | N6°38'14"E

Line # Length Direction

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us

SURVEYING / GIS SOLUTIONS

WATER RESOURCES

SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: JSW

DATE: 02/15/19 DRAWING NO. C-11

20 OF 33 SHEETS

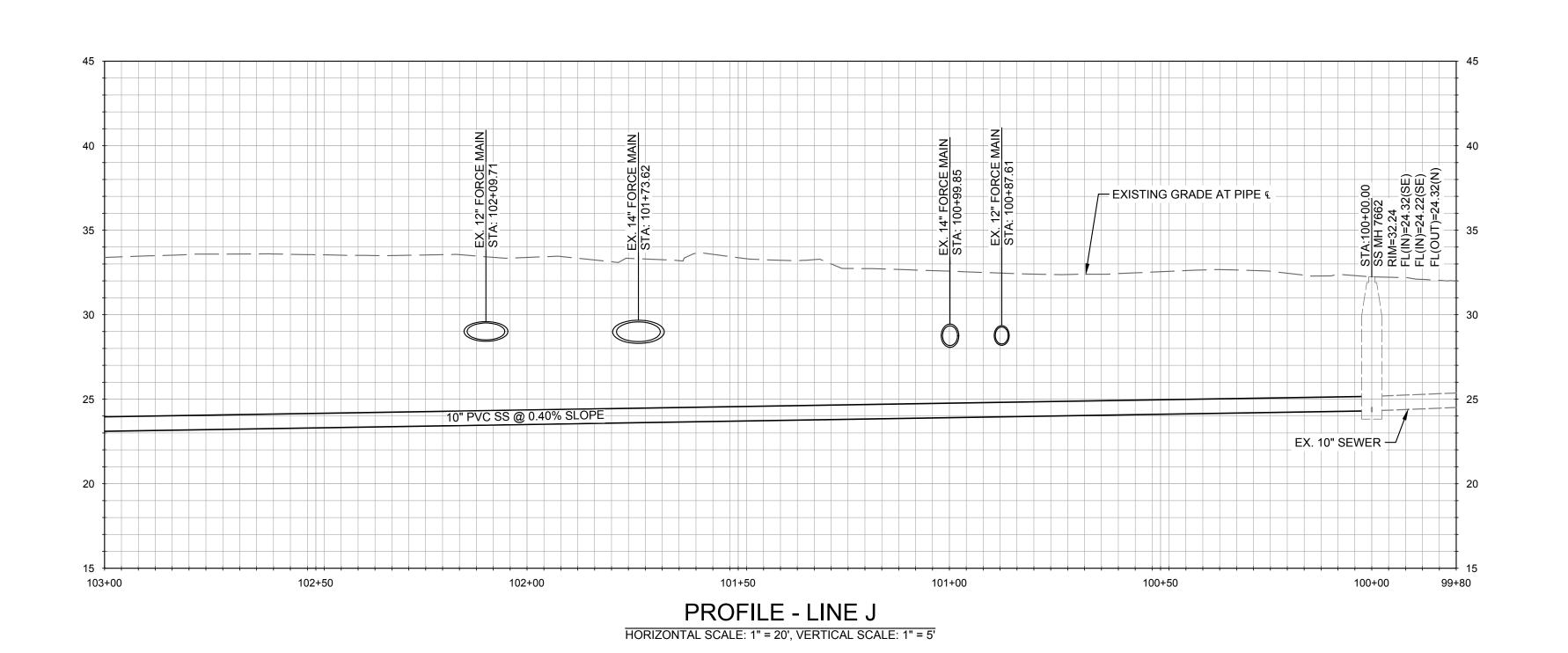
ORIGINAL SCALE IS IN INCHES **REFERENCE NOTES:** DESCRIPTION 100 GENERAL NOTES EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION. 102 EXISTING SEWER MH TO REMAIN. 103 EXISTING SEWER TO REMAIN. 104 EXISTING SEWER MH BASE TO REMAIN AS IS. EXISTING 12" FORCE MAIN TO REMAIN. 116 EXISTING 14" FORCE MAIN TO REMAIN. 200 SANITARY SEWER NOTES REPLACE EXISTING SEWER PIPE WITH 10" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. CONTRACTOR TO VERIFY AND MATCH EXISTING INVERTS OR NEW INVERTS SHOWN ON PROFILES. RECONNECT ALL EXISITING SEWER LATERALS. RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.

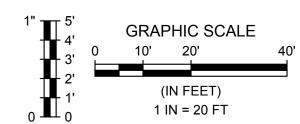
PLAN - OCEAN VIEW BLVD. SCALE: 1" = 20'

SS MH 7662 RIM=32.24'

INV 10" PVC (S)=24.32' — INV 4" (SE)=24.22' INV 12" CLAY (N)=24.32'

LINE J





,	B	02/15/19	ISSUED FOR BID	JSW
	A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Rev.	Date	Description of Revisions	Ву

L100 | 481.31 | N6°38'14"E

L101 | 151.18 | N19°57'00"W

Line # Length Direction

DESCRIPTION

CONSTRUCTION.

115 EXISTING 12" FORCE MAIN TO REMAIN.

SANITARY SEWER NOTES

EXISTING 14" FORCE MAIN TO REMAIN.

REFERENCE NOTES:

100 GENERAL NOTES

KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL

UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO

REPLACE EXISTING SEWER PIPE WITH 10" SDR 35 PVC SEWER PIPE.

PROFILES. RECONNECT ALL EXISITING SEWER LATERALS.

TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. CONTRACTOR TO

VERIFY AND MATCH EXISTING INVERTS OR NEW INVERTS SHOWN ON

RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW

SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.

WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.

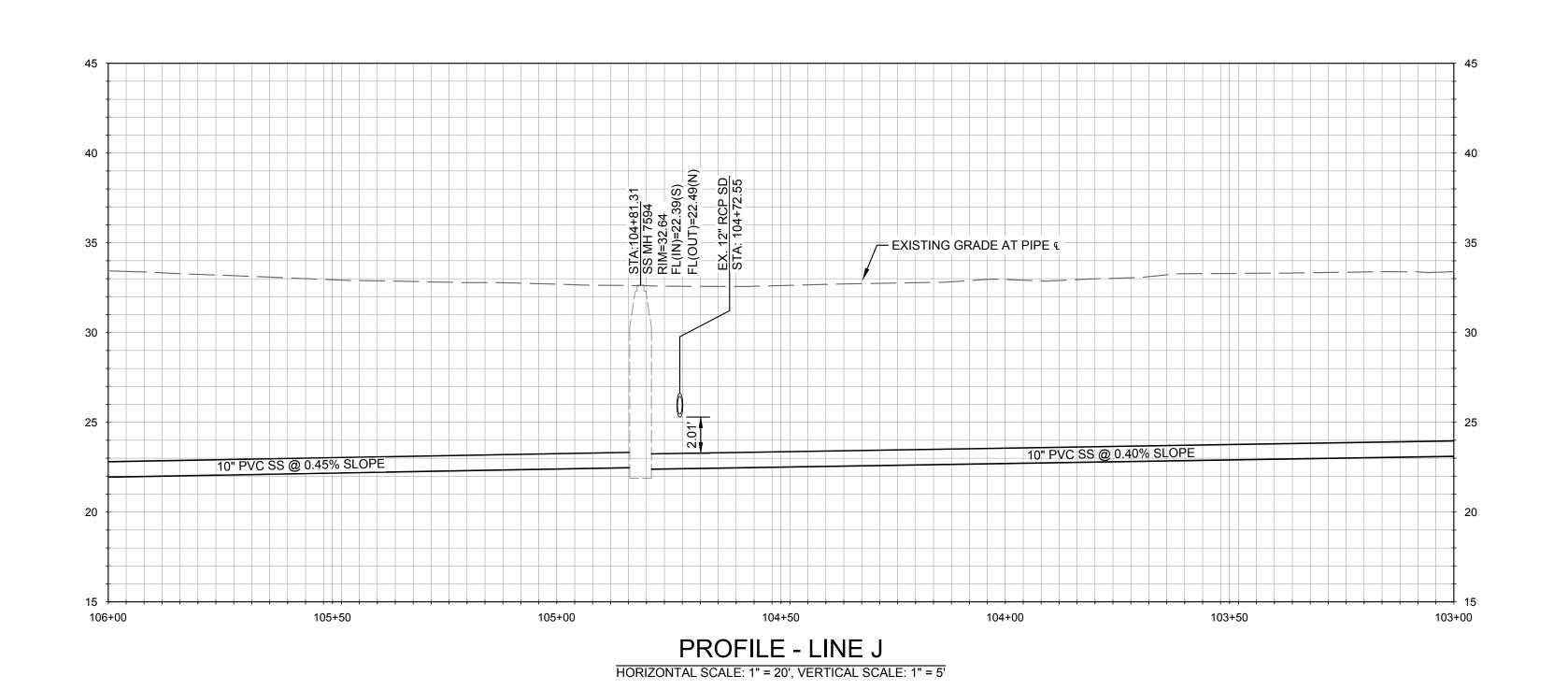


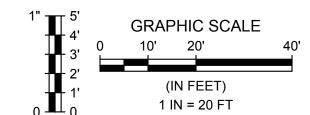
DESIGNERS: SGT/KEA DRAWN BY: JSW DATE: 02/15/19

DRAWING NO. C-12 21 OF 33 SHEETS

SS MH 7594 RIM=32.64' INV 10" VCP (S)=22.49' INV 10" VCP (NW)=22.49 OCEAN VIEW BLVD. SD DI 20042 - LID=32.12' INV 12" CONC (E)=30.78'

PLAN - OCEAN VIEW BLVD.





40'	B	02/15/19	ISSUED FOR BID	JSW
	A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Rev.	Date	Description of Revisions	Ву

L101 | 151.18 | N19°57'00"W

L102 | 227.71 | N19°56'58"W

SSMH 20025 RIM=35.17'

SSMH 20029

TOP OF PIPE 6" (S)=29.56' TOP OF PIPE 12" (SW)=29.81' - (101)

RIM=35.62'

- VAULT

INV 10" CLAY (W)=32.51'

INV 4" CLAY (W)=32.39'

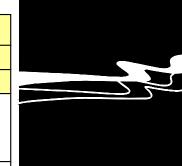
INV 10" (S)=21.00'

INV 10" (N)=21.00'

Line # Length Direction

ORIGINAL SCALE IS IN INCHES

REFERENCE NOTES: DESCRIPTION 100 GENERAL NOTES EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION. 102 EXISTING SEWER MH TO REMAIN. EXISTING SEWER TO REMAIN. 115 EXISTING 12" FORCE MAIN TO REMAIN. EXISTING 14" FORCE MAIN TO REMAIN. REMOVE AND REPLACE EXISTING LANDSCAPING AS NECESSARY TO ACCOMMODATE CONSTRUCTION. SANITARY SEWER NOTES REPLACE EXISTING SEWER PIPE WITH 10" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. CONTRACTOR TO VERIFY AND MATCH EXISTING INVERTS OR NEW INVERTS SHOWN ON PROFILES. RECONNECT ALL EXISITING SEWER LATERALS. RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.



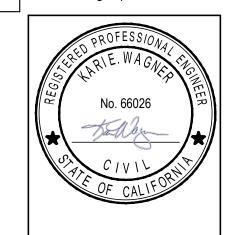
WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING

PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: JSW

DATE: 02/15/19 DRAWING NO. C-13

22 OF 33 SHEETS

EXISTING GRADE AT PIPE & 10" PVC SS @ 0.36% SLOPE 108+50 106+00 109+00 PROFILE - LINE J
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'

PLAN - OCEAN VIEW BLVD. SCALE: 1" = 20'

SSMH 20040

INV 8" PVC (W)=29.90' -

INV 10" PVC (S)=21.81'

INV 10" PVC (N)=21.81'

RIM=33.86'

SIREN

STREET

(IN FEET) 1 IN = 20 FT

40'	B	02/15/19	ISSUED FOR BID	JSW
	A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Rev.	Date	Description of Revisions	Ву

WALLACE GROUP® CIVIL AND TRANSPORTATION ENGINEERING

> PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.

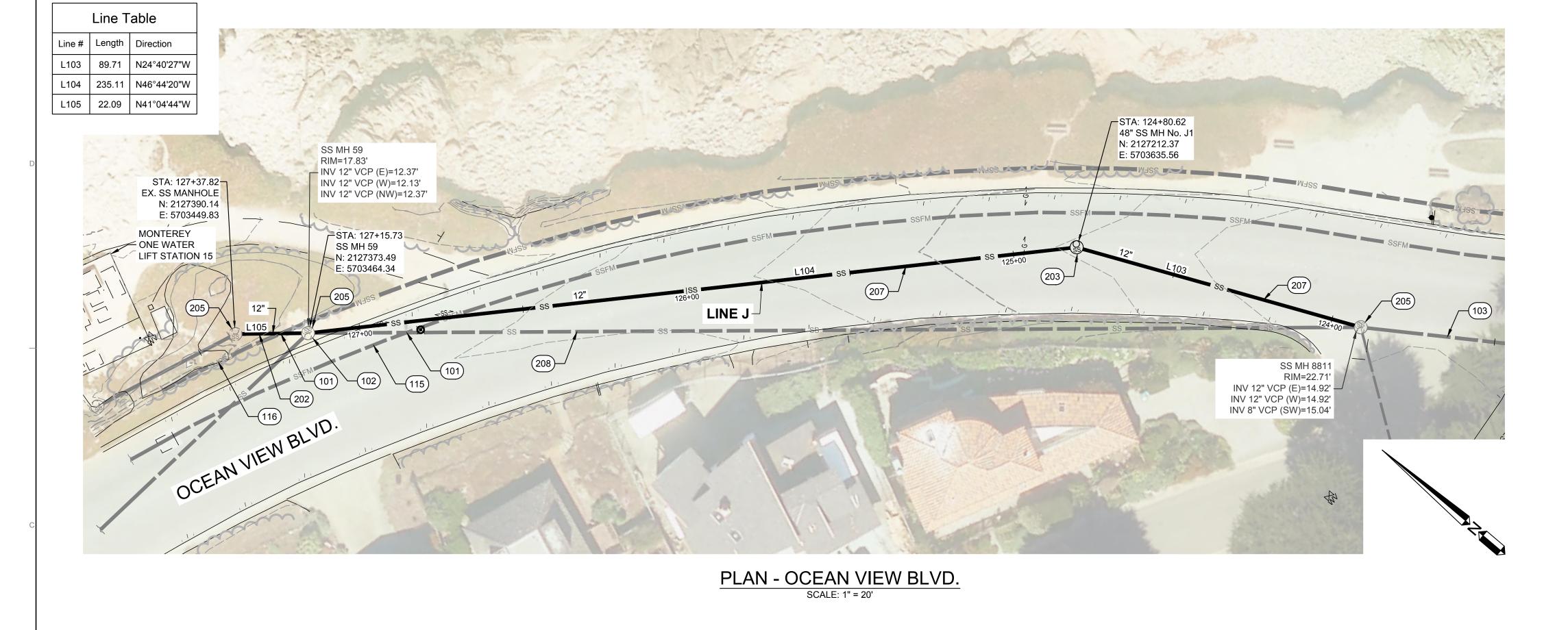


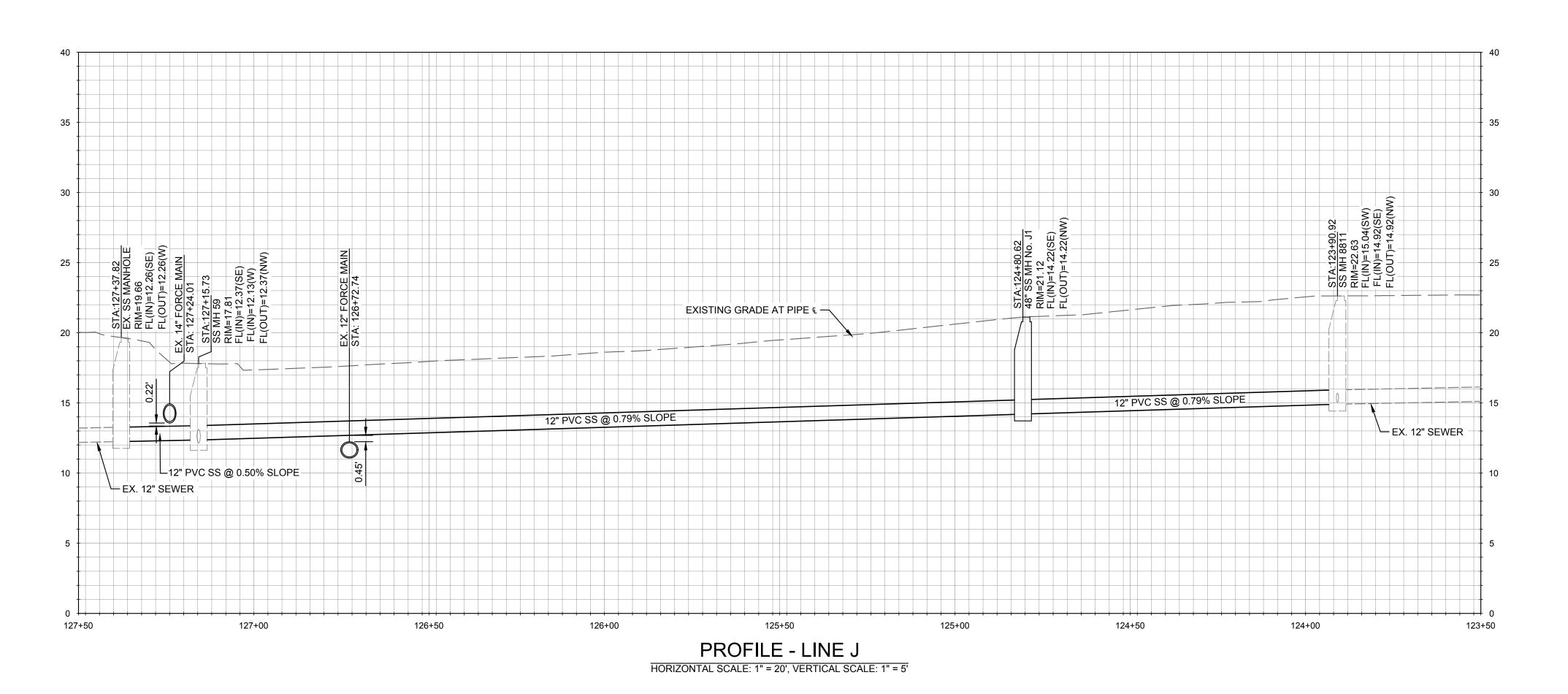
DATE: 02/15/19

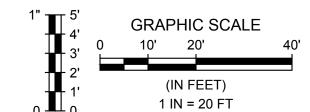
DRAWING NO. C-14

23 OF 33 SHEETS

REFERENCE NOTES: DESCRIPTION 100 GENERAL NOTES EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION. 102 EXISTING SEWER MH TO REMAIN. EXISTING SEWER TO REMAIN. 115 EXISTING 12" FORCE MAIN TO REMAIN. 116 EXISTING 14" FORCE MAIN TO REMAIN. 200 <u>SANITARY SEWER NOTES</u> REPLACE EXISTING SEWER PIPE WITH 12" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. MATCH EXISTING 202 INVERTS OR NEW INVERTS SHOWN ON PROFILES. RECONNECT ALL EXISTING SEWER LATERALS. 203 SEWER MANHOLE PER DETAIL E, SHEET C-16. RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19. NEW 12" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. RECONNECT ALL EXISTING SEWER LATERALS. ABANDON EXISTING 12" SEWER IN PLACE. SEE SECTION 02 42 00, REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS, PARA 3.5H.



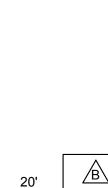




B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву

FOR REDUCED PLANS FILE NAME: 1153-0003-01-SEAP-LMTS-GRDG.DWG ORIGINAL SCALE IS IN INCHES





REFERENCE NOTES:

401

DESCRIPTION

400 UNDERGROUND RESERVOIR NOTES

402 APPROXIMATE TANK FOOTPRINT.

APPROXIMATE LIMITS SHOWN.

MANUFACTURER. SLOPE TO DRAIN PER PLAN.

APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION.

GRADE, COORDINATE WITH OWNER FOR LOCATION.

STILLING WELL PER DETAIL X, SHEET C-19.

410 CONTRACTOR TO PROVIDE SCREENING FROM TEE BOX.

PROCEDURES, PARA. 3.8 TREES WITHIN PROJECT LIMITS.

SLAB FOUNDATION FOR UNDERGROUND RESERVOIR. PLANS BY TANK

48" MAINTENANCE ACCESS MANHOLE WITH LOCKABLE LID, MARKED OR

STAMPED "STORM DRAIN", PER DETAIL B, SHEET C-16. APPROXIMATE

12" D.I. AIR VENT. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO

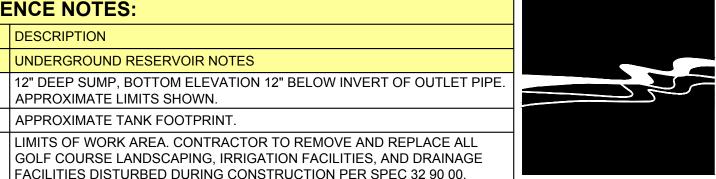
PROTECT TREES IN PLACE, SEE SECTION 01 35 00 SPECIAL PROJECT

CONSTRUCTION. SEE DETAIL O, SHEET C-17. AIR VENT LOCATION ABOVE

LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR

SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO

B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	Ву
		E	



WALLACE GROUP®

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PUBLIC WORKS ADMINISTRATION

SURVEYING / GIS SOLUTIONS

WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2018 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19

DRAWING NO.

24 OF 33 SHEETS

FOR TRENCH

AGGREGATE

SEE NOTE 2 FOR SECTION

THICKNESSES-

1. SAWCUTS REQUIRED FOR ALL PATCHES

APPROVED

CITY ENGINEER

AP

OCEANVIEW BLVD. NW OF ESPLANADE ST
OCEANVIEW BLVD. SE OF ESPLANADE ST, PALM AVE, & DEL MONTE BLVD
PACIFIC AVE, CALEDONIA AVE, & JEWELL AVE WEST OF 18TH ST
JEWELL AVE EAST OF 18TH ST & OCEANVIEW BLVD WEST OF FOUNTAIN AVE
OCEANVIEW AVE SOUTHEAST OF FOUNTAIN AVE

NOTE: ASPHALT CONCRETE AND CLASS 2 AGGREGATE BASE SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS.

3. SAND BACKFILL TO BE VIBRATORY COMPACTED AT OPTIMUM MOISTURE CONTENT TO 95% RELATIVE COMPACTION. CONTRACTOR SHALL PROVIDE FOR COMPACTION TESTING AND SUBMIT FINAL RESULTS TO CITY ENGINEER.

5. CITY ENGINEER MAY REQUIRE OUTLET FOR TRENCH BOTTOM WHEN WATER BUILD UP OCCURS.

4. 2 SACK SLURRY CEMENT BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 19, "EARTHWORK"

OF CALTRANS STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED BY CITY ENGINEER.

STANDARD DETAILS FOR STREET IMPROVEMENTS

CITY OF PACIFIC GROVE

TILE TRENCH SECTION & PAVEMENT REPLACEMENT

RCE NO. 29411

—SEE STANDARD DETAIL # 202

-6" (152 MM) ADJUSTABLE RINGS, 13" (330 MM) MAX. HT.

- FILL FLUSH WITH CONCRETE

--- 3" (76 MM) RING

EXCAVATION

--- PROPERTY LINE -60' EXPANSION JOINTS DEEP SCORE CONTROL JOINTS WALLACE GROUP®

PROVIDE TREE WELLS

-AS REQUIRED BY CITY

REQUIRE 6" CLASS 2 AGGREGATE

-TOOLED JOINT

REQUIRE 6" CLASS 2 AGGREGATE

BASE MATERIAL UNDER CURB &

RCE NO. 29411

✓STD. C. & G.

Scale: NTS

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS

WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work show any other project without written authority of Walla Group, a California Corporation. Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
DETAILS SHEET

JOB #: 1153-0003-01 DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19 DRAWING NO. C-16

25 OF 33 SHEETS

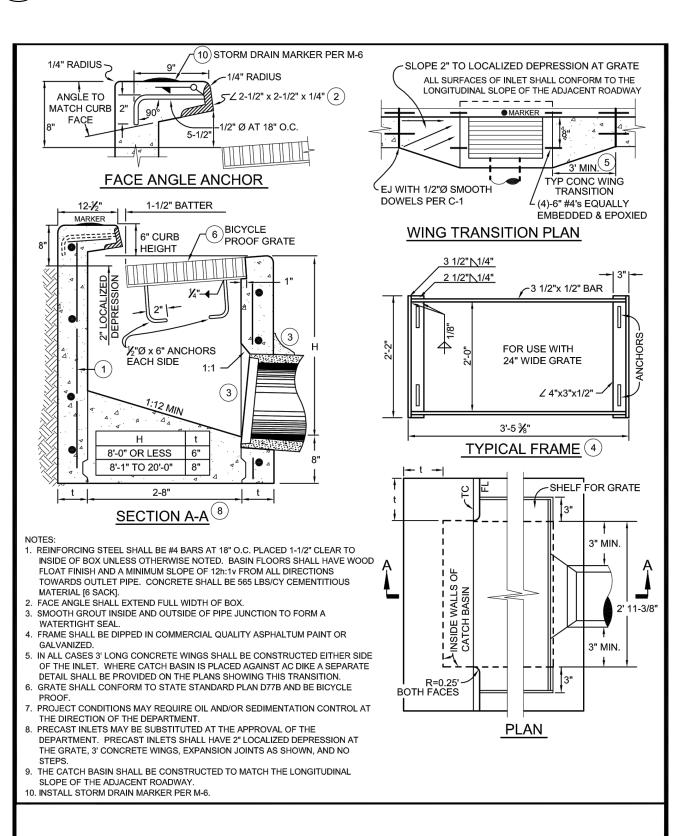
JSW

JSW

VEGETATE PER SPECIAL NOTE "D". . TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12" (6" (3.05 M) 10' 10' (3.05 M) EACH SIDE OF PIPE) FOR PIPES 36" DIAMETER OR LESS AND PIPE DIAMETER PLUS 16" (8" EACH SIDE) FOR PIPE DIAMETERS GREATER THAN 36". BEDDING MEASUREMENT IS 6" BELOW GREATEST OUTSIDE DIMENSION AT PIPE JOINTS. PIPE SHALL BE BACKFILLED TO THE SPRING LINE AND COMPACTED TO STRUCTURAL MATERIAL COMMERCIAL AREAS 90% PRIOR TO COMPLETING INITIAL BACKFILL. TO 95% RELATIVE WIDTH OF SIDEWALK SPACE FOR WATER AND SEWER, 14-GAUGE INSULATED COPPE COMPACTION ... TRACER WIRE SHALL BE LAID IN THE TRENCH ABOVE ALL PIPES AND LATERALS. SLOPE 1/4": 1'-0" 4. FOR WATER AND SEWER, 3" WIDE POLYETHYLENE (6 MM PER 305 MM)_ NON-DETECTABLE TAPE MARKED AND COLOR CODED PER THE DESIGN STANDARDS SHALL BE BURIED IN THE TRENCH AND ABOVE ALL PIPES AND LATERALS. BASE MATERIAL AS REQUIRED BY BEDDING MATERIAL CITY ENGINEER UNDER SIDEWALK TO 90% RELATIVE COMPACTION BASE MATERIAL UNDER CURB & SPECIAL NOTES: A. SPECIAL CONSIDERATION SHALL BE TAKEN BY THE SLOPE 1/4" : 1'-0" DESIGNER TO ENSURE SURFACE DRAINAGE WILL NOT (6 MM PER 305 MM) -FNTER THE TRENCH. B. WHEN TRENCHING ON STEEP SLOPES, CUT-OFF WALLS AND/OR PIPE ANCHORS MAY BE REQUIRED BY THE DEPARTMENT AND SHALL BE DETAILED ON THE PLANS. TRENCHING ALIGNMENT SHALL BE DESIGNED TO AVOID BASE MATERIAL AS REQUIRED BY DAMAGE TO EXISTING TREES AND THEIR ROOT CITY ENGINEER UNDER SIDEWALK SYSTEMS. WHEN ADJACENT TO TREES THEN THE TRENCHING RECOMMENDATIONS OF THE PROJECT BOTANIST SHALL BE FOLLOWED. D. THE UPPER SURFACE SHALL BE SCARIFIED AND REVEGETATED. VEGETATIVE COVER SHALL BE ESTABLISHED PRIOR TO ACCEPTANCE OF WORK. 1. CONCRETE TO BE CLASS "B" (5 SACK) . 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. 3. FINISH SHALL BE BROOM OVER STEEL TROWEL OTHER FINISHES SUBJECT TO CITY APPROVAL INCLUDING COLORS. CITY OF PACIFIC GROVE STANDARD DETAILS FOR STREET IMPROVEMENTS SIDEWALK TITLE

STORM DRAIN MANHOLE

CATCH BASIN



Scale: NTS 10" MANHOLE INTERIORS SHALL HAVE A SMOOTH - PROVIDE KEYED BASE TROWELLED FOR PRECAST RISER SURFACE. - GROUT SEAL FOR R.C.P. CUT AND BEND REBAR INTO CAST-IN-PLACE CONCRETE. -#4 REBAR @ 12" O.C. EA. WAY, 3" **L**_______ SECTION A-A SECTION B-B PIPE DIAMETER DIMENSIONS PIPEØ 36" 42" 48" 54" AND GREATER

X1 20" 14" 8" EQUALS PIPE WALL
THICKNESS

X2 32" 38" 44" 48" 1. MANHOLE COVER AND FRAME SHALL HAVE A MINIMUM 24"Ø OPENING AND CONFORM TO HS-20 TRAFFIC LOADING. LID SHALL HAVE AN OPEN PICKHOLE, AND BE LETTERED "STORM 2. COLLAR SHALL BE PORTLAND CEMENT CONCRETE, TROWELLED TO STREET GRADE, AND ALLOWED TO CURE 48 HOURS PRIOR TO FULL TRAFFIC USE. 3. PROVIDE ADJUSTING RINGS AS NEEDED, GROUTED ON THE INSIDE. PROVIDE HYDRAULIC CEMENT GROUT BETWEEN ·L'-@-`-----MANHOLE FRAME AND TOP RING SHALL BE PER APPENDIX C3. 4. PRECAST SHAFT(S) AND CONCENTRIC CONE SHALL MEET ASTM C-478 61T FOR CLASS 2 REINFORCED CONCRETE PIPE, OR AS APPROVED BY THE DEPARTMENT. JOINTS SHALL BE WATERTIGHT, SET WITH BUTYL RUBBER #4 BAR @ 12" O.C. EA. 🗕 SEALANT (RUB'R-NEK OR EQUAL). WAY, 3" CLR. TYP. 6. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND PROVIDE P.C.C. FILLETS AS NEEDED TO CONCRETE COLLARS BE LOCATED WITHIN CURBS, GUTTERS, SUPPORT MANHOLE SHAFT, 4 EACH. SIDEWALKS, DRIVEWAY APRONS, CURB RAMPS, OR CROSS 7. LOCKING LIDS MAY BE REQUIRED BY THE DEPARTMENT.

STORM DRAIN MANHOLES FOR PIPES >36"

SEWER MANHOLE

CITY ENGINEER

TITLE

AP

Scale: NTS

CURB AND GUTTER 02/15/19

GUTTER LINE-(152 MM) 6" CLASS 2 AGGREGATE BASE 1. ALL WORKS SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD 2. TOP AND FRONT OF CURBS AND GUTTERS TO BE FINE BRUSH FINISH AFTER TROWELLING; BRUSHING TO BE PARALLEL TO THE LINE OF THE CURB. 3. CONCRETE TO BE CLASS B (5 SACK). 4. PLACE 6" MIN CLASS 2 AGGREGATE BASE. CITY OF PACIFIC GROVE STANDARD DETAILS FOR STREET IMPROVEMENTS CURB & GUTTER AP

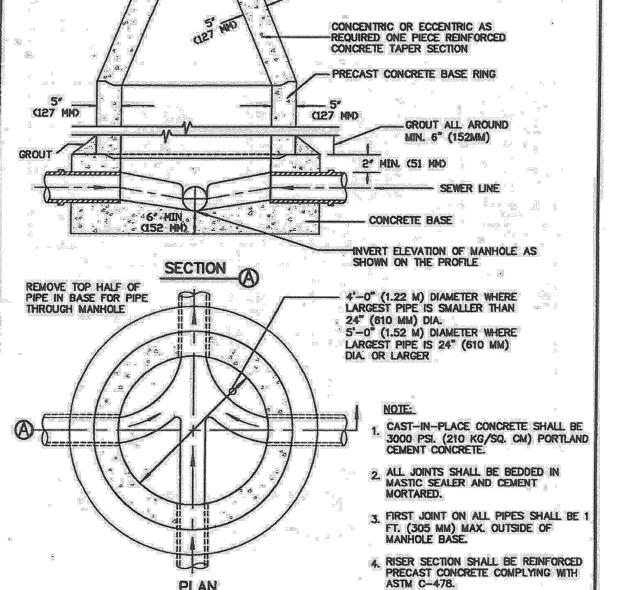
CITY ENGINEER

SIDEWALK

CITY ENGINEER

Scale: NTS **ISSUED FOR BID** 01/16/19 100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW Rev. Date Description of Revisions

RCE NO. 29411



CITY OF PACIFIC GROVE

STANDARD MANHOLE

STANDARD DETAILS FOR STREET IMPROVEMENTS

- CL 2 AGGREGATE BASE

APPLY TACK COAT

2 SACK SLURRY

SAND BACKFILL

REQUIRED FOR PIPE

COVER 24" OR LESS, OR

COMPACTED IN 12" (305

MM) LAYERS TO 95% MIN. RELATIVE COMPACTION

3" MIN. (76 MM) PIPE BEDDING

Scale: NTS

Scale: NTS

1. MANHOLE COVER AND FRAME SHALL HAVE A MINIMUM 24"Ø OPENING ╅╸╴╴╶╶┩_{╇┺┸}╸╼╲╼_┸┞╴╴╴╴╴╻ AND CONFORM TO HS-20 TRAFFIC LOADING. LID SHALL HAVE AN OPEN PICKHOLE, AND BE LETTERED "STORM DRAIN". 2. COLLAR SHALL BE PORTLAND CEMENT CONCRETE, TROWELLED TO STREET GRADE, AND ALLOWED TO CURE 48 HOURS PRIOR TO FULL PROVIDE ADJUSTING RINGS AS NEEDED, GROUTED ON THE INSIDE. PROVIDE HYDRAULIC CEMENT GROUT BETWEEN MANHOLE FRAME AND TOP RING SHALL BE PER APPENDIX C3. PRECAST SHAFT(S) AND CONCENTRIC CONE SHALL MEET ASTM C-478 BY THE DEPARTMENT. (RUB'R-NEK OR EQUAL).

#4 REBAR x 48"₇

#4 REBAR x 60"₁ 7 #4 REBAR @

SECTION A-A

╫╫<u>╪╶╶╶</u>╶╸╬┈╴╶**╩**╴╴╶╬

(8 TOTAL)

(2 TOTAL) \

18" O.C.

3" TYP

61T FOR CLASS 2 REINFORCED CONCRETE PIPE, OR AS APPROVED 5. JOINTS SHALL BE WATERTIGHT, SET WITH BUTYL RUBBER SEALANT 6. CONCRETE MANHOLE BASE SHALL CONFORM TO STATE STANDARD 90-1.01, 565 LBS/CY CEMENTITIOUS MATERIAL [6 SACK], AND REST UPON UNDISTURBED MATERIAL. BOTTOM SHAFT SHALL BE WET-SET OR SET IN FORMED GROOVE. PRECAST BASES MAY BE USED WITH PRIOR APPROVAL OF THE DEPARTMENT AND SHALL MEET ASTM C-478 7. PIPE SHALL BE LAID THROUGH MANHOLE, AND TOP PORTION REMOVED AFTER BASE IS POURED. TROUGH SHALL HAVE STEEL-TROWEL FINISH, VERTICAL SIDES, ROUNDED CORNERS. TOP SURFACE SHALL HAVE 1-INCH PER 12-INCH SLOPE TOWARD TROUGH. 8. EQUIVALENT PRECAST BASE SHALL BE ALLOWED. 9. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN CURBS, GUTTERS, SIDEWALKS, DRIVEWAY APRONS, CURB RAMPS, OR CROSS GUTTERS. 10. LOCKING LIDS MAY BE REQUIRED BY THE DEPARTMENT.

듀╜큐┦ └#4@18"O.C.

SECTION B-B

TRENCH FOR NON-PAVED AREA

Scale: NTS

Scale: NTS

TRENCH WIDTH

6" (152 MM) MIN. -8" (203 MM) MAX. FOR 6" (152 MM) TO 12"

8" 203 MM) MIN. -10" (254 MM) MAX. FOR 15" (381 MM) PIPE

(305 MM) PIPE INCLUSIVE.

WALLACE GROUP®

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294



SIGNATURE DATE SIGNED



WATER RESOURCES www.wallacegroup.us

> designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation. Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19

DRAWING NO.

C-17

26 OF 33 SHEETS

PIPE SUBGRADE FOR SEWER AND STORM DRAIN

CITY OF PACIFIC GROVE

TITLE PIPE SUBGRADE FOR SEWER & STORM DRAIN

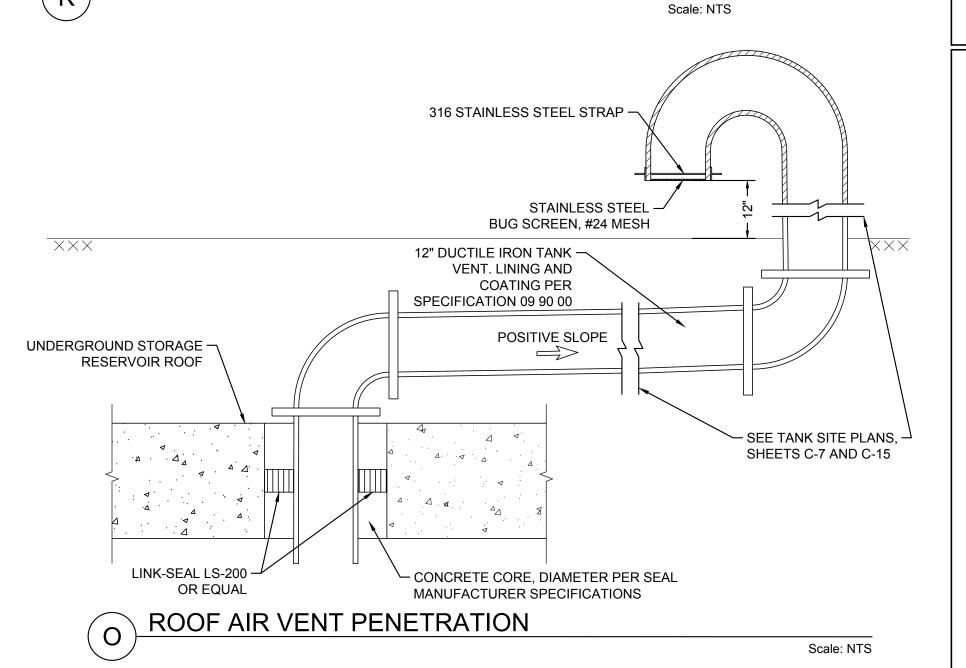
STANDARD DETAILS FOR STREET IMPROVEMENTS

SPECIAL BEDDING AS -

REVISED SEPTEMBER 2005

CITY ENGINEER

REQUIRED BY ENGINEER



02/15/19 **ISSUED FOR BID** 01/16/19 100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW JSW Rev. Date Description of Revisions

3" MIN. (76 MM)

BOTTOM SHAPED FOR LOWER QUADRANT OF PIPE AND SOCKET

NOTES: MINIMUM SIZE PIPE IS 8" DIA. (203 MM)
EXCEPT WHERE SMALLER PIPE IS APPROVED
BY CITY ENGINEER.

RCE NO. 29411

MANHOLE COVER TO BE EXTRA HEAVY DUTY GROUT HOLES
4 - EQUALLY SPACED MACHINED-SURFACES 26-1/4" (667 MM) 25-5/16" (643 MM) 1-1/8" (29 MM) 1. USE D&L MANHOLE A-124 EXTRA HEAVY DUTY NON-ROCKING FRAME & COVER OR APPROVED EQUAL. 2. TOTAL SET WEIGHT 320 LBS (146 KG). 3. USE APPROPRIATELY MARKED COVER, "SANITARY SEWER" OR STORM SEWER". 4. CASTING DIPPED IN ASPHALT PAINT. CITY OF PACIFIC GROVE STANDARD DETAILS FOR STREET IMPROVEMENTS MANHOLE FRAME AND COVER

MANHOLE FRAME AND COVER

CITY ENGINEER

Scale: NTS

EXIST. 8" PVC SEWER

Scale: NTS

1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT TO THE CHANNEL WITH WHICH IT CONNECTS 2. MATCH ALL EXISTING INVERTS.

3. WIDEN CHANNEL TO ACCOMMODATE NEW 10" PVC SEWER.

EXISTING SSMH 8514

NEW 10" PVC SEWER

1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT TO THE CHANNEL WITH WHICH IT CONNECTS 2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 10" PVC SEWER UPSTREAM AND DOWNSTREAM.

Scale: NTS

EXISTING SEWER MH 7594

RCE NO. 29411

NEW 10" PVC SEWER EXIST. 8" VCP SEWER

> 1. CHIP OUT AND GROUT SMOOTH WIDENED CHANNEL TO CONFORM TO NEW SEWER PIPE. CHANNEL TRANSITION SHALL BE SMOOTH AND GRADUAL ACROSS EXISTING MANHOLE BASE.

EXISTING SSMH 8624

Scale: NTS

— 3 #4X12" DOWELS

6" CLASS 2 BASE-(REPLACE IN KIND)

1 ALL WORKS SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

2. EXPANSION JOINTS TO BE DOWELED WITH TWO #4 (1/2") REBARS AT

3. TOP AND FRONT OF CURB AND GUTTER TO HAVE FINE BRUSH FINISH.

REMOVE FULL SECTION OF ROLL CURB, SAW CUT MUST

MATCH CURVATURE, CONTOUR AND FINISH OF EXISTING

CITY OF PACIFIC GROVE

ROLLED CURB & GUTTER SECTION (MODIFIED)

RCE NO. 29411

STANDARD DETAILS FOR STREET IMPROVEMENTS

BE MADE AT JOINT OR GROOVE.

ROLLED CURB AND GUTTER SECTION

ROLL CURB.

APPROVED

CITY ENGINEER

AP

Scale: NTS

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

 MANHOLE COVER MARKED "STORM DRAIN" RIM **ELEVATION PER SHEET C-1** INV. PER SHEET C-1 TO LOVER'S POINT → UNDERGROUND RESERVOIR **INV. PER SHEET C-1** NEW 24" PVC STORM DRAIN INV. PER SHEET C-1

Scale: NTS

1. STORM DRAIN MANHOLE PER DETAIL G, SHEET C-14.

MANHOLE.

EXISTING -12" STORM

DRAIN

EXISTING ·

12" STORM DRAIN

4. 24" PVC DIVERSION STORM DRAIN.

2. CORE OR PRECAST OPENING TO ACCOMMODATE EXISTING 48"

3. FOUR 3" PVC SLEEVES CAST IN BOTTOM, SPACED EQUIDISTANT

5. 30"X30" STAINLESS STEEL BAR GRATING, 1" THICK VERTICAL

BARS WITH MINIMUM OF 6" BETWEEN BARS. MOUNT TO

6. CROWN OF DIVERSION PIPE BELOW INVERT OF EXISTING PIPE.

CALEDONIA DIVERSION MANHOLE

CONCRETE WALL PER MFG RECOMMENDATION.

SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF

AND NEW 24" STORM DRAIN PIPES. SEAL ANNULUS WITH GROUT,

ELEVATION PER SHEET C-2 INV. PER SHEET C-2 TO LOVER'S POINT UNDERGROUND **INV. PER SHEET C-2** RESERVOIR

- MANHOLE COVER

MARKED "STORM DRAIN" RIM

1. STORM DRAIN MANHOLE PER DETAIL B, SHEET C-14. 2. CORE OR PRECAST OPENING TO ACCOMMODATE EXISTING 18" AND NEW 18" STORM DRAIN PIPES. SEAL ANNULUS WITH GROUT SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF MANHOLE.

3. FOUR 3" PVC SLEEVES CAST IN BOTTOM, SPACED EQUIDISTANT. 4. 18" PVC DIVERSION STORM DRAIN.

5. 24"X24" STAINLESS STEEL BAR GRATING, 1" THICK VERTICAL BARS WITH MINIMUM OF 6" BETWEEN BARS. MOUNT TO

CONCRETE WALL PER MFG RECOMMENDATION. 6. CROWN OF DIVERSION PIPE BELOW INVERT OF EXISTING PIPE.

JEWELL DIVERSION MANHOLE

Scale: NTS **Technical Specification** Control Point Head (ft) Flow (cfs) 0.314 grade 304L stainless steel 11.600

Integral stainless steel pivoting by-pass door allowing clear line of sight through to 2.226 Primary Design outlet, c/w stainless steel operating rope 2.225 Flush-Flo™ 3.291 Beed blasted finish to maximise corrosion Kick-Flo® 1.739 6.962 Stainless steel fixings Appro√ed 1.940 Mean Flow PT/329/0412 OF INLET PIPE(S) WILL BE SPECIFIED ON THE

SECTION A-A

LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
"WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW
CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL 1. REFER TO DETAIL H, SHEET C-14 FOR ITEMS NOT SHOWN 2. CATCH BASIN PER DETAIL F, SHEET C-14. 3. CORE OR PRECAST OPENING TO ACCOMMODATE EXISTING 18" THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE. AND NEW 24" STORM DRAIN PIPES. SEAL ANNULUS WITH GROUT, DESIGN
ADVICE
The head/flow characteristics of this SHE-0289-6314-3536-6314
Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF rydiates the full head/flow characteristic curve.

The use of any other flow control will invalidate any design based on this data International CATCH BASIN.

Scale: NTS

4. FOUR 3" CORE DRILLED OPENINGS IN FLOOR OF PRE-CAST BOTTOM, SPACED EQUIDISTANT. 5. 24"X24" STAINLESS STEEL BAR GRATING, 1" THICK VERTICAL

INV. PER SHEET C-8

INV. PER SHEET C-8

EXISTING 24" STORM DRAIN

INV. PER SHEET C-8

RESERVOIR

18" PVC DIVERSION SD PIPE, TO SEAPALM UNDERGROUND

BARS WITH MINIMUM OF 6" BETWEEN BARS. MOUNT TO CONCRETE WALL PER MFG RECOMMENDATION. 6. MATCH SLOPE OF EXISTING GUTTER AND GRATE

7. CROWN OF DIVERSION PIPE BELOW INVERT OF EXISTING PIPE.

LINE F DIVERSION CATCH BASIN

STORMWATER FLOW REGULATOR

2. BENCH VAULT BASE. CONCRETE SHALL CONFORM TO STATE STANDARD 90-1.01, 565 LBS/CY,

CONCRETE MOUNTING SURFACE PERPENDICULAR TO OUTLET PIPE FOR HYDRO-BRAKE.

MINIMUM 4" AT CENTERLINE OF OUTLET. CONCRETE SHALL CONFORM TO STATE STANDARD

1. STORM DRAIN VAULT DIMENSIONS: 8 FT X 6 FT X 7 FT.

90-1.01, 565 LBS/CY, CEMENTITIOUS MATERIAL (6-SACK).

CEMENTITIOUS MATERIAL (6-SACK).

Scale: NTS

INV. PER SHEET C-1 - EXISTING 18" STORM DRAIN EXISTING 18" STORM DRAIN INV. PER SHEET C-1

TOP GRATE ELEVATION PER SHEET C-1

MATCH EX. FLOW LINE

1. NEW SD CATCH BASIN PER DETAIL F, SHEET C-14 MODIFIED AS SHOWN.

2. CORE OR PRE-CAST OPENING TO ACCOMMODATE EXISTING AND NEW 18" SD PIPES. SEAL ANNULUS WITH GROUT, SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF CATCH BASIN.

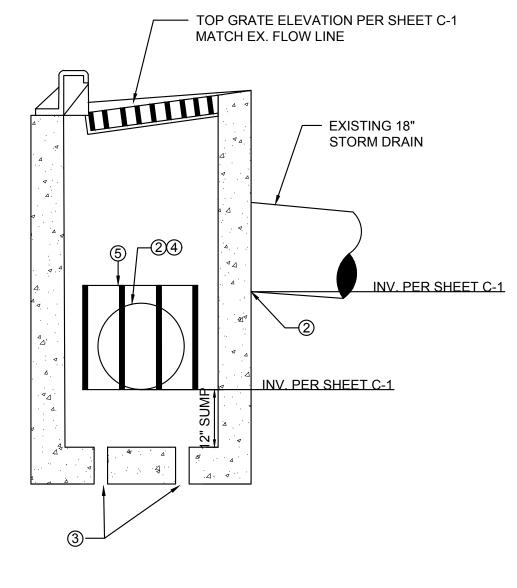
3. FOUR 3" CORE DRILLED OPENINGS, SPACED EQUIDISTANT.

5. 24"X24" STAINLESS STEEL BAR GRATING, 1" THICK VERTICAL BARS WITH MINIMUM OF 6"

4. 18" PVC DIVERSION STORM DRAIN. BETWEEN BARS. MOUNT TO CONCRETE WALL PER MFG RECOMMENDATION. 6. CROWN OF DIVERSION PIPE BELOW INVERT OF EXISTING PIPE.

LINE B DIVERSION CATCH BASIN

Scale: NTS BACK OF SIDEWALK LINE TIE-IN #4 (1/2") 12" MIN REBAR — BROOM OVER STEEL TROWEL TOOLED JOINT -FLOW LINE -CURB LINE -NOTE: SAWCUT EXISTING CONCRETE TO BE REMOVED 4'-0" W/8" CURB 3'-0" W/6" CURB 3'-0" W/6" CURB (914 MM) (914 MM) BACK OF SIDEWALK LINE CLASS B CONCRETE (5 SACK) SECTION CITY OF PACIFIC GROVE STANDARD DETAILS FOR STREET IMPROVEMENTS STANDARD DRIVEWAY APPROVED RCE NO. 29411 STANDARD DRIVEWAY



1. NEW SD CATCH BASIN PER DETAIL F, SHEET C-14 MODIFIED AS SHOWN.

CORE OR PRE-CAST OPENING TO ACCOMMODATE EXISTING AND NEW 18" SD PIPES. SEAL ANNULUS WITH GROUT, SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF CATCH BASIN.

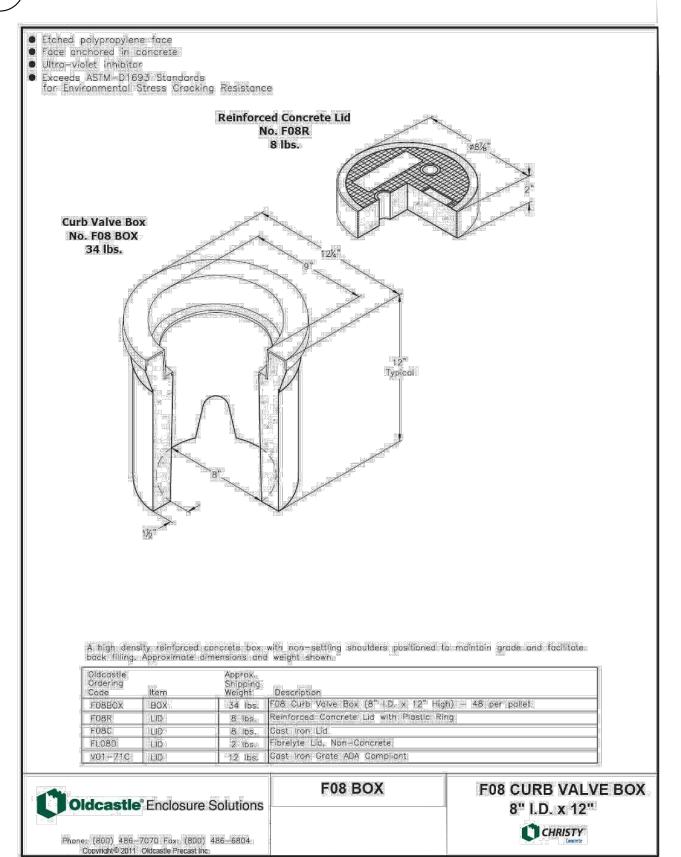
FOUR 3" CORE DRILLED OPENINGS, SPACED EQUIDISTANT.

4. 18" PVC DIVERSION STORM DRAIN.

5. 24"X24" STAINLESS STEEL BAR GRATING, 1" THICK VERTICAL BARS WITH MINIMUM OF 6" BETWEEN BARS. MOUNT TO CONCRETE WALL PER MFG RECOMMENDATION.

6. CROWN OF DIVERSION PIPE BELOW INVERT OF EXISTING PIPE.

LINE C DIVERSION CATCH BASIN



02/15/19

01/16/19

Date

Rev.

CLEANOUT ENCLOSURE

Scale: NTS

FOR BID	
TAL, ISSUED FOR REVIEW	

JSW

JSW

Scale: NTS

ISSUED

Description of Revisions

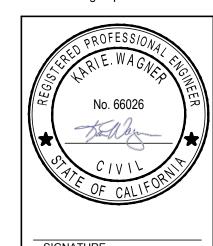
100% COMPLETE SUBMIT

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING

CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



SIGNATURE DATE SIGNED

designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



Scale: NTS

DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19 DRAWING NO.

C-18 27 OF 33 SHEETS $\overline{}$

STORMWATER

RESERVOIR

PER PLANS

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING CONSTRUCTION MANAGEMENT LANDSCAPE ARCHITECTURE MECHANICAL ENGINEERING PLANNING PUBLIC WORKS ADMINISTRATION



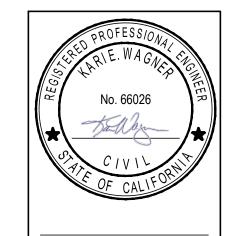
SIGNATURE

Copyright © 2019 Wallace Group, a California Corporation. All rights reserved. Copies of this drawing shall have this notice.



SURVEYING / GIS SOLUTIONS WATER RESOURCES

612 CLARION COURT SAN LUIS OBISPO, CA 93401 T 805 544-4011 F 805 544-4294 www.wallacegroup.us



DATE SIGNED

These plans and specifications, and the ideas and designs incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.



NEW 10" PVC SEWER , EXIST. 8" PVC SEWER

- 1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT TO THE CHANNEL WITH WHICH IT CONNECTS.
- 2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 10" PVC SEWER UPSTREAM AND DOWNSTREAM.

EXISTING SEWER MH 20040

NEW 12" PVC SEWER

Scale: NTS

Scale: NTS

 $\times \times \times$

CORE OPENING FOR 1" PVC SLEEVE,

- WIRE THROUGH SLEEVE, SEAL WITH

WATER-RESISTANT CONDUIT SEAL

MEETING NEC REQUIREMENTS.

SEE ELECTRICAL PLANS

TO PLC,

FASTEN PVC PIPE TO CONCRETE WALL

LEVEL TRANSDUCER

GROUT IN PLACE. EXTEND TRANSDUCER

EXISTING SEWER MH 7662

SEWER DOWNSTREAM.

1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR

2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 10" PVC

TO THE CHANNEL WITH WHICH IT CONNECTS.

PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE

AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT

Scale: NTS

\ EXIST. 10" PVC SEWER

EXISTING SEWER MH 20025

TO THE CHANNEL WITH WHICH IT CONNECTS.

SEWER DOWNSTREAM.

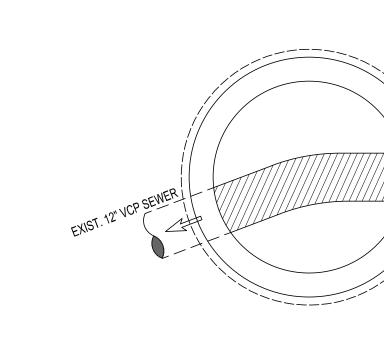
1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR

2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 10" PVC

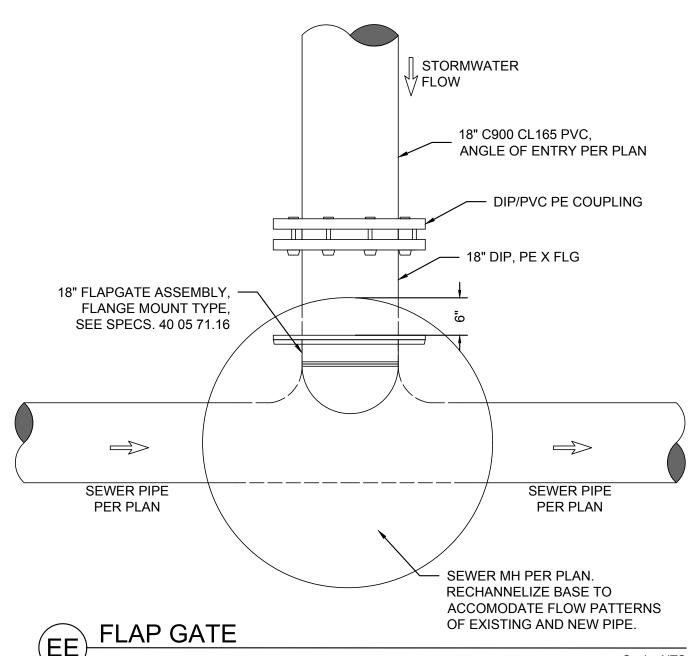
PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE

AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT

Scale: NTS



- 1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT TO THE CHANNEL WITH WHICH IT CONNECTS. 2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 12" PVC SEWER UPSTREAM.
- EXISTING SEWER MH AT STA 127+37.82



Scale: NTS

B	02/15/19	ISSUED FOR BID	JSV
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSV
Rev.	Date	Description of Revisions	Ву

ABANDON 12" SEWER_

TOP PERFORATIONS —

8" DIAMETER

STILLING WELL

C900 CLASS 165 PVC

18" STORM DRAIN -

INV. PER PLANS

STILLING WELL

OUTLET

FOR AIR RELEASE

1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT

TO THE CHANNEL WITH WHICH IT CONNECTS. 2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 12" PVC SEWER DOWNSTREAM.

3. FILL IN CHANNEL TO ABANDON 12" SEWER. SEE SECTION 02 42 00, REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS, PARA

EXISTING SEWER MH 8811

Scale: NTS

EXISTING SEWER MH 59

1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES OR

2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 12" PVC

3. FILL IN CHANNEL TO ABANDON 12" SEWER. SEE SECTION 02 42 00,

REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS, PARA

TO THE CHANNEL WITH WHICH IT CONNECTS.

SEWER UPSTREAM AND DOWNSTREAM.

PROJECTIONS. RADII OF CURVED CHANNEL SHALL BE AS LARGE

AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT

NEW 12" PVC SEWER

Scale: NTS

ABANDON EXISTING 12" SEWER

DESIGNERS: SGT/KEA DRAWN BY: ASK DATE: 02/15/19

DRAWING NO. C-19 28 OF 33 SHEETS

GENERAL SITE PLAN NOTES

- A. UTILITY COMPANY CONTACTS: BEFORE CONSTRUCTION, COORDINATE & VERIFY ALL UTILITY COMPANY REQUIREMENTS
 - [FILL IN] [FILL IN] [FILL IN]
- TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY UTILITY COMPANY AND / OR THIS SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.
- LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA). AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.
- MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.
- ALL SITE UTILITY WORK SHALL BE INSTALLED PER THE UTILITY COMPANY ISSUED CONSTRUCTION DRAWINGS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT. ANY UTILITY WORK PERFORMED WITHOUT PRIOR UTILITY COMPANY APPROVAL SHALL BE DONE AT THE CONTRACTOR'S RISK.
- THOMA HAS CONTACTED EACH OF THE ABOVE UTILITIES IN AN EFFORT TO REFLECT THE UTILITY WORK THAT WILL BE REQUIRED AS PART OF THIS PROJECT. WHERE A UTILITY PLAN HAS BEEN MARKED UP AND SENT BACK TO OUR OFFICE WITH A UTILITY REQUIREMENT, IT HAS BEEN REFLECTED ON THE PLANS. IF PLANS WERE NOT RECEIVED BACK FROM A UTILITY, WE HAVE INDICATED OUR BEST ESTIMATION OF THEIR REQUIREMENTS. THE UTILITY WORK SHOWN ON THE CONSTRUCTION DOCUMENT IS:

ELECTRIC UTILITY (PG&E)	TELEPHONE UTILITY (VERIZON)	CATV UTILITY (COMCAST)	
☑ AN ESTIMATE ONLY	☑ AN ESTIMATE ONLY	☑ AN ESTIMATE ONLY	
☐ BASED ON PLAN RECEIVED ON	□ BASED ON PLAN RECEIVED ON	□ BASED ON PLAN RECEIVED ON	

LEGEND

NOTE: INTERPRET IN CONTEXT

SINGLE RECEPT.

DUPLEX RECEPT.

◆ DOUBLE DUPLEX

JUNCTION BOX

□ DATA OUTLET

TELEPHONE OUTLET

▼ TELEVISION OUTLET

 ☐ SAFETY DISCONNECT

DATA FLOOR OUTLET

MISCELLANEOUS

①C ABOVE-CLGMOUNT J-BOX

TV OUTLET-FLOORMOUNT

TELEPHONE FLOOR OUTLET

PHONE/DATA COMBO FLOOR OUTLET

U ← DROP CORD RECEPT

DUPLEX- HALF SWITCHED

SPECIAL CONFIGURATION

DUPLEX- FLOOR OUTLET

▼ PHONE/DATA COMBO OUTLET

▼* MOUNTED ABOVE COUNTER

₱ FLOORMOUNT 208V. 1Ø RECEPT

GROUND FAULT CIRCUIT INTERRUPT

LIGHT FIXTURES POWER/COMM.

- CEILING SURFACEMOUNT WALL SURFACEMOUNT PENDANT MOUNT RECESSED DOWNLIGHT RECESSED WALLWASH
- RECESSED FLUOR. SURFACE FLUOR. ⊢⊸ FLUOR. STRIP UON → TRACK LIGHT DIRECTIONAL FLOOD
- POLE LIGHT POLE LIGHT- DECORATIVE UPLIGHT- FLUSH IN GRADE BOLLARD
- ■ UNDERCABINET LIGHT ₩ WALL SURFACEMOUNT LINEAR TYPE PENDANT LINEAR FLUOR. ☐ RECESSED WALLMOUNT

SPST

DIMMER

TIMER SWITCH

W/PILOT LIGHT

KEY OPERATED

OS OCCUPANCY SENSOR

W/THERMAL OVERLOAD

DUAL LEVEL SWITCHING

SWITCHLEG DESIGNATION

EXIT LIGHT- WALL EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION) LETTER ADJACENT INDICATES

O MOTOR THERMOSTAT

- —
 → CIRCUIT BREAKER **SWITCHES** —
 √

 FUSIBLE SWITCH GROUND DPST PHASE 3-WAY (L) CLOCK 4-WAY
 - S CLOCK/SPEAKER COMBINATION ₩ WALL MOUNTED CLOCK PUSHBUTTON
 - FLUSHMOUNT PANEL SURFACEMOUNT PANEL ☐ FLUSHMOUNT CABINET □ SURFACEMOUNT CABINET
 - DM DAMPER MOTOR HUMIDISTAT M MAGNETIC CONTACTOR COMBINATION STARTER

CONDUIT/WIRE

- NEW --- UNDERGROUND + NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- → ISOLATED GROUND ─E─ EXISTING TO REMAIN ── (E) POWER HOMERUN → WIRE LINE- CONTINUES
- CONDUIT STUB (W/MARKER) ── VERTICAL CONDUIT RUN CONDUIT SEAL FLEXIBLE CONNECTION
- --- SURFACEMOUNT RACEWAY ── INDICATES LINE CONTINUES ೨೦ CORD W/PLUG

FIRE ALARM

─LV─ LOW VOLTAGE

- FIRE ALARM CONTROL PANEL RPS REMOTE POWER SUPPLY HORN- AUDIBLE DEVICE VISUAL- VISUAL DEVICE AV AUDIBLE/VISUAL SV SPEAKER/VISUAL FLOW SWITCH T TAMPER SWITCH MANUAL PULL STATION
- SMOKE DETECTOR SD_D DUCT SMOKE DETECTOR H HEAT DETECTOR
- B BELL ₹ END OF LINE RESISTOR © CHIME

SOUND

- SPEAKER- CLG FLUSHMOUNT SPEAKER- WALLMOUNT MICROPHONE INPUT **AUXILIARY INPUT** HEADSET OUTLET VOLUME CONTROL
- SPEAKER- CLG FLUSHMOUNT VANDAL-RESISTANT

(S) CLOCK/SPEAKER WALLMOUNT

CONVENTIONS

NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE



DETAIL REFERENCE: -DETAIL DESIGNATION -SHEET NUMBER REFERENCE



FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3 CURRENT CARRYING INDICATES CONDUIT ONLY, QUANTITY (1) AND SIZE (4"))

FURNISHED BY OTHERS

GROUNDING CONDUCTOR GENERAL CONTRACTOR

GARBAGE DISPOSAL

GROUND FAULT CIRCUIT

GALVANIZED RIGID STEEL

HIGH INTENSITY DISCHARGE

GANG WITH SWITCH

FULL LOAD AMPS

FUSIBLE SWITCH

INTERRUPTER GROUND FAULT CIRCUIT

INTERRUPTER

HEIGHT, HIGH

HACR HEATING, AC & REFRIG

HIGH OUTPUT

HAND-OFF-AUTO

HORSEPOWER

IDENTIFICATION

QUANTITY 1000

KILOVOLTAMPS

J-BOX JUNCTION BOX

LIGHTING

MECH MECHANICAL

MFR MANUFACTURER

MOCP MAXIMUM OCP

MOUNT

METAL HALIDE

MSB MAIN SWITCHBOARD

MT HT MOUNTING HEIGHT

MICROWAVE

NEMA 3R

CONDUCTOR)

MAIN LUGS ONLY

LOW VOLTAGE

MCB MAIN CIRCUIT BREAKER

LTG

MCA

HIGH POWER FACTOR

ISOLATED GROUND

LIGHTING CONTACTOR

LOCKED ROTOR AMPS

LIFE SAFETY BRANCH

MINIMUM CKT AMPS

MCTB MAIN CATV TERMINAL BOARD

MCTC MAIN CATV TERMINAL CABINET

MAIN FUSIBLE SWITCH

MTS MANUAL TRANSFER SWITCH

MTTC MAIN TELEPHONE TERMINAL

NORMALLY CLOSED

NOT IN CONTRACT

NIGHT LIGHT NORMALLY OPEN

NTS NOT TO SCALE

NEMA NAT'L ELEC MANUFACTURER'S

NORMAL POWER FACTOR

NEUTRAL (GROUNDED

MTTB MAIN TELEPHONE TERMINAL BOARD

NATIONAL ELECTRICAL CODE

LOW PRESSURE SODIUM

MECHANICAL CONTRACTOR

HIGH PRESSURE SODIUM

GROUND

FLR FLOOR

FLUOR FLUORESCENT

ABBREVIATIONS

A MMP BREAKER ABAND ABOVE AC ALTERNATING CURRENT AC# AIR CONDITIONER ADJ ADJACENT AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT C-C- CATV CONDUIT C-C- CATY CONDUIT C-C- CATY CONDUIT C-C- CA ELECTRICAL CODE C-C CA ELECTRICAL CODE C-C CA ELECTRICAL CODE C-C CA ELECTRICAL CODE C-C CALIFORNIA FIRE CODE C-C CALIFORNIA FIRE CODE C-C CONDUIT, CONDUCTOR C-C		
ABAND ABANDONED ABV ABOVE AC ALTERNATING CURRENT AC# AIR CONDITIONER ADJ ADJACENT AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT C-C- CATV CONDUIT C-C- CATV CONDUIT C-C- CATV CONDUIT C-C- CATY CONDUIT C-C- CATY CONDUIT C-C- CATY CONDUIT C-C- CA ELECTRICAL CODE C-C A. ELECTRICAL CODE C-C A. ELECTRICAL CODE C-C CALIFORNIA FIRE CODE C-C CALIFORNIA FIRE CODE C-C CALIFORNIA FIRE CODE C-C CALIFORNIA FIRE CODE C-C CONDUIT, CONDUCTOR C-C CALIFORNIA SFM C-T CURRENT TRANSFORMER C-U COPPER C-U# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF# EVANING LIGHT ELEC ELECTRICAL EM EMERGENCY C-C LECTRICAL EM EMERGENCY C-C LECTRICAL EM EMERGENCY EMER		
ABV ABOVE AC ALTERNATING CURRENT AC# AIR CONDITIONER ADJ ADJACENT AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATY CONDUIT CABT CABINET CATU CABLE TELLEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CCA. ELECTRICAL CODE CCA. ELECTRICAL CODE CLA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNTR CONTACTOR CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EMERG BATTERY BACKUP EMERGENCY BALLAST EC ELECTRICAL EMERGENCY BALLAST EMERG EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EMERGENCY BALLAST EC ELECTRICAL EMERGENCY BALLAST EC ELECTRICAL EMERGENCY BALLAST EMERG EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EMERGENCY BALLAST EME		
AC.# AIR CONDITIONER ADJ ADJACENT AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCC. A. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) IN OB ER) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE F-# FURN		
AC.# AIR CONDITIONER ADJ ADJACENT AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCC. A. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) IN OB ER) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE F-# FURN	ABV	ABOVE
AC# AIR CONDITIONER ADJ ADJACENT AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BILD BUILDING C CONDUIT -C- CATV CONDUIT -C- CATV CONDUIT -C- CATV CONDUIT -C- CABTC CABINET CABINET CATU CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CO. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL CONTRACTOR EC# EVAPORATIVE COOLER EF# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EMERGE BATTERY BACKUP EMERGE BACTION (EXN) (E) IN (N) LOCATION (EXR) (E) IN OB LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) IN OB LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN OB LOCATION (EXR) (E) IN OB LOCATION (EXR) (E) IN OB LOCATION (EXR) F FLUORESCENT (F) FUTURE FF# FURNACE	AC	ALTERNATING CURRENT
AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BILD BUILDING C CONDUIT -C-C CATV CONDUIT CABT CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CC. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CO. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EACH EM ELECTRICAL EM EMERGENCY (E) EXISTING EACH EM ELECTRICAL EM EMERGENCY ELECTRICAL EM EMERGENCY ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) ITO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F# FURNACE		AUD COMPUTIONIED
AF AMP FUSE, AMP FRAME AFF ABOVE FINISH FLOOR AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BILD BUILDING C CONDUIT -C-C CATV CONDUIT CABT CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CC. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CO. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EACH EM ELECTRICAL EM EMERGENCY (E) EXISTING EACH EM ELECTRICAL EM EMERGENCY ELECTRICAL EM EMERGENCY ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) ITO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F# FURNACE	AD.I	ADJACENT
AFF ABOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BILDG BUILDING C CONDUIT -C- CATV CONDUIT CABT CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CC. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CO. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERG BATTERY BACKUP EMERGE BACH EMERGE BATTERY BACKUP EMERGE BACH EMERGE BATTERY BACKUP EMERGE BACH ELE CELECTRICAL EM EMERG BATTERY BACKUP EMERGE BATTERY BACKUP	, ,_ ,	
AFG BOVE FINISH GRADE AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT C-C-CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNTR COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CCO. CONDUIT ONLY (W/PULLROPE) COND COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIAD LIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERG BATTERY BACKUP EMERGE BENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FUNACE F-# FUNACE F-# FURACE F-#		
AIC AMPERES INTERRUPTING CAPACITY AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BILDB BUILDING C CONDUIT -C- CATV CONDUIT CABT CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CELLING CL CENTER LINE CKT CIRCUIT CNTR CONDUIT, CONDUCTOR COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL EM EMERG BATTERY BACKUP EMERG		
AI ALUMINUM AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BEG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT CAB'T CABILE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR CO. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-COPPER CU-CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL EM EMERGENCY ED		
AS AMP SWITCH RATING ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TIME SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATY CONDUIT -C- CATY CONDUIT CAB'T CABINET CATU CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL CODE EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) ITO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
ATS AUTOMATIC TIME SWITCH ATS AUTOMATIC TRANSFER SWITCH AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BILDG BUILDING C CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY EOL EFF EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL EMERGENCY EOL END OF LINE EWENGENCY EOL END OF LINE EWENGENCY EOL EXISTING EA EACH EMERGENCY EOL EMERGENCY EOL EMERGENCY EOL END OF LINE EWENGENCY EOL END OF LINE EWERGENCY EOL EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BILDG BUILDING C CONDUIT -C- CATV CONDUIT CABT CABINET CABT CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	AS ATO	
AV AUDIBLE/AUDIO VISUAL AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EACH ES ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EXTENSIVE EXTENSIVE EXTENSIVE EXTENSIVE EXTENSIVE EXTENSIVE EXTENSIVE EXTENSIVE EXTENSIVE EXISTING F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	ATS	AUTOMATIC TIME SWITCH
AWG AMERICAN WIRE GAGE BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY EOL EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EMERGENCY EOL EXTENSION EXTENSION F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		AUTOMATIC TRANSFER SWITCH
BFG BELOW FINISH GRADE BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT -C- CALIFORNIA FOR CODE -C- CA. BUILDING CODE -C- CA. ELECTRICAL CODE -C- CA. ENERGY COMMISSION -C- COMPACT FLUORESCENT -C- CALIFORNIA FIRE CODE -C- CALIFORNIA FIRE CODE -C- CALIFORNIA FIRE CODE -C- CONDUIT CONDUCTOR -C- CONDUIT CONDUCTOR -C- CONDUIT, CONDUCTOR -C- CONDUIT, CONDUCTOR -C- CONDUIT, CONDUCTOR -C- CONDUIT, CONDUCTOR -C- CALIFORNIA SFM -C- CURRENT TRANSFORMER -C- CU-# CONDENSING UNIT -D- DEPTH -D- DEPTH -D- DIRECT CURRENT -D- DEPTH -D- DIRECT CURRENT -D- DEPTH -D- DISTRIBUTION -D- DISTRIBUTION -D- DISTRIBUTION -D- DISTRIBUTION -D- DOUBLE POLE SINGLE THROW -D- DISTRIBUTION -D- DOUBLE POLE SINGLE THROW -D- DISHWASHER -E- E- EVAPORATIVE COOLER -E- E- ELECTRICAL -E- E-		
BIL BASIC IMPULSE LEVEL BLDG BUILDING C CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (F) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
BLDG BUILDING C CONDUIT -C- CATV CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL EM EMERGENCY EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EMERGENCY BALLAST EMERGE EMERGENCY EOL END OF LINE EMERGENCY BALLAST EMERGENCY		
C CONDUIT -C- CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU.# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC.# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERG BATTERY BACKUP EMERGENCY BALLAST ECE ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		BASIC IMPULSE LEVEL
C-C-CATV CONDUIT CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERG BATTERY BACKUP EMERG BERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		BUILDING
CAB'T CABINET CATV CABLE TELEVISION CB CIRCUIT BREAKER, CODE BLUE CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERG BATTERY BACKUP EMERG EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	С	
CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EMERGE BALLAST EMERGE EMERGENCY EOL END OF LINE EMERGE BENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	-C-	CATV CONDUIT
CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EMERGE BALLAST EMERGE EMERGENCY EOL END OF LINE EMERGE BENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CAB'T	CABINET
CBC CA. BUILDING CODE CCC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EMERGE BALLAST EMERGE EMERGENCY EOL END OF LINE EMERGE BENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CATV	CABLE TELEVISION
CBC CA. BUILDING CODE CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CB	CIRCUIT BREAKER, CODE BLUE
CEC CA. ELECTRICAL CODE CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CBC	
CA. ENERGY COMMISSION CF COMPACT FLUORESCENT CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERG BATTERY BACKUP EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
CF CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	0_0	
CFC CALIFORNIA FIRE CODE CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERG BATTERY BACKUP EMERG BERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CF	
CLG CEILING CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
CL CENTER LINE CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EMERGENCY END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
CKT CIRCUIT CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EME		
CNT'R CONTRACTOR C.O. CONDUIT ONLY (W/PULLROPE) COND CONDUIT, CONDUCTOR CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EMERGENCY EMERGENCY EMERGENCY EMERGENCY EMERGENCY EMERGENCY EMERGENCY ELECTRICAL EM EMERGENCY END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		CIDCUIT
CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CNTID	CONTRACTOR
CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CNIK	CONDUIT ONLY (M/DUIL BODE)
CR CRITICAL BRANCH CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	C.O.	CONDUIT CONDUCTOR
CSFM CALIFORNIA SFM CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	COND	CONDUIT, CONDUCTOR
CT CURRENT TRANSFORMER CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CR	CRITICAL BRANCH
CU COPPER CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY BALLAST EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
CU-# CONDENSING UNIT D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERGENCY BALLAST EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIPT EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
D DEPTH DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
DC DIRECT CURRENT DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	CU-#	CONDENSING UNIT
DF DRINKING FOUNTAIN DIA DIAMETER DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	D	
DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	DC	DIRECT CURRENT
DISC DISCONNECT DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	DF	DRINKING FOUNTAIN
DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	DIA	DIAMETER
DIST DISTRIBUTION DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	DISC	DISCONNECT
DPST DOUBLE POLE SINGLE THROW DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	DIST	DISTRIBUTION
DW DISHWASHER EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	DPST	DOUBLE POLE SINGLE THROW
EM EMERGENCY (E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
(E) EXISTING EA EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		EMERGENCY
EÁ EACH EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	(E)	
EB ELECTRONIC BALLAST EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EC ELECTRICAL CONTRACTOR EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EC-# EVAPORATIVE COOLER EF-# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EF# EXHAUST FAN EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EL EVENING LIGHT ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
ELEC ELECTRICAL EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EM EMERG BATTERY BACKUP EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EMERGENCY BALLAST EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EMERG EMERGENCY EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	LIVI	
EOL END OF LINE EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM	EMEDO	
EQUIP'T EQUIPMENT ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
ES ENERGY SAVING (EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
(EXN) (E) IN (N) LOCATION (EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
(EXR) (E) TO BE (R) EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
EXT EXTERIOR F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
F FLUORESCENT (F) FUTURE F-# FURNACE FA FIRE ALARM		
(F) FUTURE F-# FURNACE FA FIRE ALARM		
F-# FURNACE FA FIRE ALARM		
FA FIRE ALARM		
EACH FIRE ALARM CONTROL DANIEL		FIRE ALARM
FACE FIRE ALARM CONTROL PANEL	FACP	FIRE ALARM CONTROL PANEL

FAT FIRE ALARM TERMINAL

- OCP OVERCURRENT PROTECTION OUTSIDE DIAMETER OVERHEAD OSA OFFICE of the STATE ARCHITECT OSHPD OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT FVNR FULL VOLTAGE NON-REVERSING OVLD OVERLOAD PUBLIC ADDRESS PULL BOX PULL CHAIN PHOTOCFLL PLUMBING CONTRACTOR PHASE POWER PRIMARY POWER SECONDARY PHOTOVOLTAIC RELOCATE(D) RÉCEPT RECEPTACLE REF REFRIGERATOR REQ'D REQUIRED RLA RATED LOAD AMPS RPLC REPLACE SIGNAL CABINET SPEC SPECIFICATION SQUARE STR'G STORAGE SURF SURFACE SERVICE SWITCH (TBR) TO BE REMOVED TIME CLOCK TELEPHONE TELCO TELEPHONE COMPANY TIME SWITCH
 - POINT OF CONNECTION RIGID METAL CONDUIT SHORT CKT CURRENT STATE FIRE MARSHAL SLIMLINE, SWITCH LEG SPST SINGLE POLE SINGLE THROW TRANSFORMER TERMINAL **TELEPHONE CONDUIT** TIME SWITCH OVERRIDE TWISTED SHIELDED PAIR TELEPHONE TERMINAL BOARD TTC TELEPHONE TERMINAL CABINET TRANSFORMER TYP SIM TYPICAL SIMILAR UNDERCABINET, UNDERCOUNTER UNDERGROUND UGPS UNDERGROUND PULL SECTION UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED UG SVC ALERT 800-642-2444 **VOLT AMPERES** VOLT ALTERNATING CURRENT VHO VERY HIGH OUTPUT VOLT VOLTAGE VANDAL-RESISTANT WIDTH, WATT, WIRE WH-# WATER HEATER
 WP WEATHERPROOF WEATHERPROOF (NEMA 3R)

XFMR TRANSFORMER

+48 INDICATES MOUNTING HEIGHT AFF

GENERAL NOTES

- CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING
 - A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2016 CALIFORNIA ELECTRICAL CODE, 2016 CALIFORNIA FIRE CODE, 2016 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE
 - B. AMERICANS WITH DISABILITIES ACT (ADA).
- 2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
- FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
- BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, ETC. WITH ARCHITECT OR
- LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES. CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).
- **EQUIPMENT ANCHORAGE NOTE** ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2016 CBC, SECTIONS 1613A AND 1616A AND ASCE 7-10 SECTIONS 13.3, 13.4 & 13.6.

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS PER 2016 CBC SECTION 1616A.1.18:

- FURNITURE(EXCEPT STORAGE CABINETS AS NOTED IN 2016 CBC TABLE 13.5-1) TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2016 CBC SECTION 1616A.1.18 ITEM 2.
- ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F THAT MEET ALL OF THE CRITERIA LISTED IN 2016 SECTION 1616A.1.18 ITEM 3.
- EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION
- EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

PIPING AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318,

COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PIPING SYSTEMS

- PIPING UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR PIPING UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION TO UNIT.
- PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.

EXISTING BUILDINGS

- ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS. OR ASBESTOS-BEARING MATERIALS. THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.
- ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.
- CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

REVISIONS:

EXPIRES: 6/30/19 THOMA #18-8166

 $\overline{}$

NOIL LIFT OINT $\geq \sigma$

> NOIL LEGEND, ABBREVIA

DRAWN BY: TR CHECKED BY: CP DATE: FEB. 15, 2019

SCALE: AS NOTED

- A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET.
- B. SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE SERVING ELECTRIC UTILITY COMPANY'S REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN UTILITY COMPANY APPROVAL FOR ALL METERING EQUIPMENT PRIOR TO ORDERING.
- C. SERIES RATED EQUIPMENT IS NOT ALLOWED.

BUS RATING: 100 120/240V, 1PH, 3W

AIC RATING:

| %VD | (FT) | NOTES TYPE | CKT |

COMMUNICATION UNIT.

MAIN: 100 MAIN CIRCUIT BREAKER

KAIC PANEL

R 1 UPS - CONTROLS

9 SPACE

11 SPACE

1. UPS SHALL BE RATED FOR 30 MINUTES MINIMUM AT FULL LOAD.

UPS LOAD INCLUDES SCADA/PLC, LT, FLOW-DAR AND ORBITZ

N 3 ENCLOSURE HEATER

R 7 MAINTENANCE RECEPTACLE

SPACES: 12 FULL SIZE BOLT-ON CB SPACES

- D. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.
- E. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.
- F. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).
- G. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR SINGLE LINE DIAGRAM FOR FEEDER VOLTAGE DROP CALCULATIONS.
- H. BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD. TYPICAL.

(N) PANEL

CONNECTED VA

SUB:

COND PHASE PHASE COND

TRIP POLES SIZE A B SIZE POLES TRIP

INTERNAL MOUNT, NEMA _1__

WITH EQUIPMENT GND BUS

LOAD (VA) LOAD TYPE LEGEND

980 R RECEPTACLE

600 M MECHANICAL

0 K KITCHEN APPLIANCE

200 N NON-CONTINUOUS MISC.

LOCATION: INSIDE METER/MAIN PEDESTAL

VALVE MOTOR & CONTROLLER 2 M

0 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)

0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

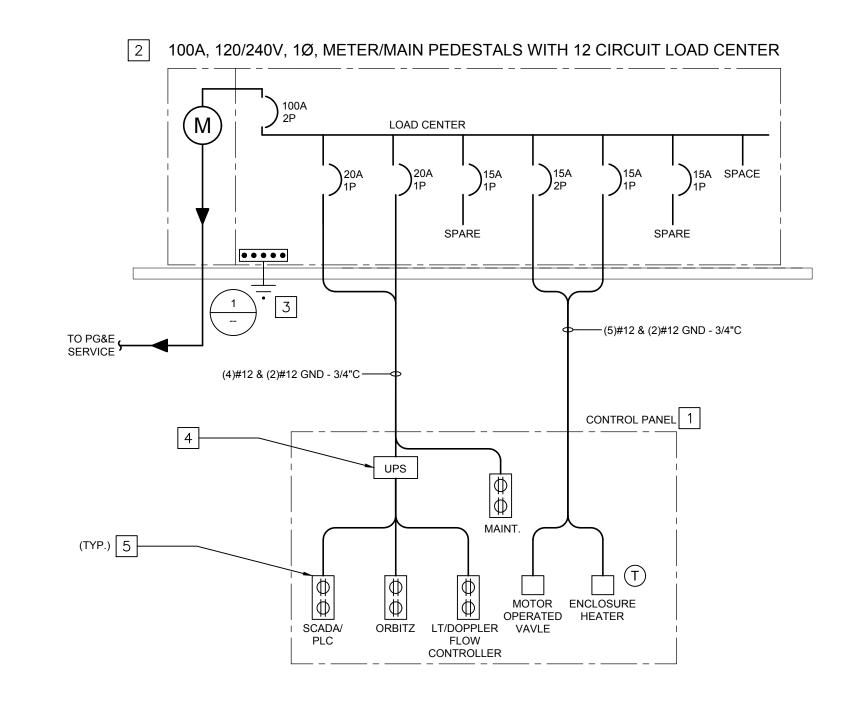
SPACE 8

SPACE 12

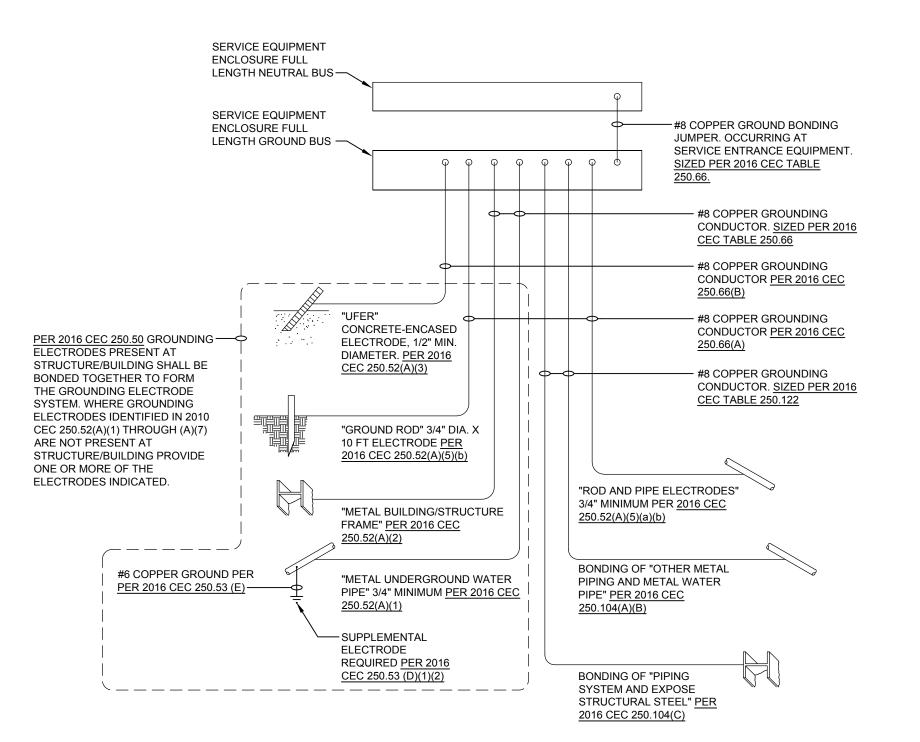
CKT TYPE NOTES (FT) %VD

REFERENCE NOTES

- CONTROL PANEL. FLOOR MOUNTED 60"h x 48"W x 18"D MINIMUM, NEMA 3R ENCLOSURE WITH FULL SIZE BACKBOARD, CONTINUOUS HINGED DOOR WITH LOCKABLE THREE POINT LATCHING, ENCLOSURE HEATER WITH THERMOSTAT, SCADA, PLC, ORBITZ COMMUNICATION UNIT AND ANTENNA, LEVEL TRANSDUCER, DOPPLER FLOW CONTROLLER AND MOTOR OPERATED VALVE POWER AND CONTROL HARDWARE. PROVIDE ALL WIRING, FUSES, DIN RAILS, CONTACTORS, SCADA, PLC, PROGRAMMING ETC. AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM PER DIVISIONS 33 AND 40 SPECIFICATIONS.
- 2. COMMERCIAL METER/MAIN PEDESTAL WITH PG&E METER SOCKET AND TEST BLOCKS AND 12 CIRCUIT LOAD CENTER. 100A, 120/240V, 1Ø, 3 WIRE. PROVIDE NEMA 3R STAINLESS STEEL ENCLOSURE. AIC RATING PER PG&E REQUIREMENTS.
- 3. PROVIDE 3/4"DIAx10FTL COPPER CLAD GROUND ROD.
- 4. PROVIDE DIN RAIL MOUNTED UPS SIZED FOR 30 MINUTES OF OPERATION AT FULL LOAD. PROVIDE SOLA/HEVI-DUTY TYPE UPS OR ENGINEER APPROVED EQUAL. COORDINATE VOLTAGE REQUIREMENTS OF ALL CONTROL/MONITORING AND COMMUNICATION DEVICE VOLTAGES AS PART OF CONTROL PACKAGE DESIGN.
- 5. SYMBOL IS REPRESENTATIVE ONLY OF EQUIPMENT INPUT VOLTAGE REQUIREMENTS. PROVIDE UPS BACKED INPUT VOLTAGE AS REQUIRED PER EACH DEVICE. COORDINATE WITH ACTUAL DEVICES PROVIDED.



SINGLE LINE DIAGRAM





DETAIL NOTES

 AN ARC FLASH ANALYSIS SHALL BE PERFORMED BY THE CONTRACTOR AND EQUIPMENT SUPPLIER IN ACCORDANCE TO THE IEEE 1584 EQUATIONS THAT ARE PRESENTED IN NFPA 70E, ANNEX D.

TYPICAL GROUND/BOND DETAIL

NTS

ARC FLASH SIGNAGE

NTS

PANEL SCHEDULE

EXPIRES: 6/30/19

THOMA #18-8166

REVISIONS:

MPLEO ST., SUITE C IS OBISPO, CA 93401 NE: (805) 543-3850 (: (805) 543-3829

3562 EMPLEO ST., SAN LUIS OBISPO, PHONE: (805) 54 FAX: (805) 543-

CITY OF PACIFIC GROVE
SEA PALM LIFT STATION 15
LOVERS POINT LIFT STATION 1

E LINE DIAGRAMS

DRAWN BY: TR
CHECKED BY: CP
DATE: FEB. 15, 2019
SCALE: AS NOTED

F-2



DEL MONTE BLVD





□ REFERENCE NOTES

- 1. SEE PG&E HANDOUT PACKAGE FOR SITE SERVICE REQUIREMENTS.
- 2. PG&E TRANSFORMER AND 120/240, 1Ø, 100A, NEMA 3R METER MAIN PEDESTAL WITH LOAD CENTER. SEE SINGLE LINE DIAGRAM AND PANEL SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REPRESENTATIVE.
- 3. CONTROL PANEL PAD MOUNTED NEMA 3R, 60"H X 48"W Z 18"D, SS ENCLOSURE WITH CONTINUOUS HINGED DOOR, LOCKABLE 3-POINT LATCHING DOOR AND FULL SIZE BACKPANEL. PROVIDE SEISMIC FREE-STANDING KITS AS REQUIRED. SEE SINGLE LINE DIAGRAM AND DIVISION 33 AND 40 SPECIFICATIONS FOR CONTROLS REQUIREMENTS. COORDINATE EXACT LOCATION WITH CIVIL AND CITY REPRESENTATIVE.
- 4. 11"X17" UNDERGROUND CONCRETE PULL BOX WITH BOLTED TRAFFIC RATED COVER. MARK COVER "COMMUNICATIONS". PROVIDE CONDUIT SEAL-OFFS AS REQUIRED.
- 5. 1"C. FOR LEVEL TRANSDUCER IN TANK. CABLE PROVIDED BY OTHERS, EC INSTALLED. COORDINATE CABLE LENGTH REQUIRED WITH CONTROLS CONTRACTOR.
- 6. (3)#12 THNN/THWN CU, (1)#12 GND. 3/4"C. FOR MOTOR DRIVEN VALVE POWER. (1)2 TWSP WITH DRAIN WIRE, 18 AWG - 3/4"C. FOR MOTOR DRIVEN VALVE CONTROL. PROVIDE NEMA 3R J-BOXES IN VALVE PIT AND LIQUID TIGHT FLEX CONDUIT FOR EACH CIRCUIT IN THE VALVE PIT.
- 7. 1"C. FOR DOPPLER FLOW METER SENSOR IN MANHOLE. CABLE PROVIDED BY OTHERS, EC INSTALLED. COORDINATE CABLE LENGTH WITH CONTROLS CONTRACTOR.
- 8. COORDINATE EXACT INSTALLATION LOCATION OF DOPPLER FLOW CONTROLLER (PROVIDED BY OTHERS, EC INSTALLED) INSIDE PUMP STATION AND CONTROLLER POWER SOURCE AND PLC CONNECTIONS WITH MONTEREY ONE REPRESENTATIVE. PROVIDE ALL CABLE, CONDUITS, SUPPORTS, RECEPTACLE, ETC. REQUIRED FOR THE OPERATIONAL USE OF THE DOPPLER FLOW METER AND DOPPLER FLOW CONTROLLER.
- 9. (E)1-1/2"C. FROM MH TO (E)J-BOX IN GRINDER ROOM/VAULT(CLASS 1, DIV , GROUP 0 HAZARDOUS AREA) WITH INFLUENT HIGH WATER LEVEL SWITCH WIRING. PULL (N) DOPPLER FLOW METER SENSOR CABLE (PROVIDED BY OTHERS, EC INSTALLED) IN (E)CONDUIT FROM MH TO J-BOX. PROVIDE (N)1"C. FROM J-BOX TO LOCATION DETERMINED BY MONTEREY ONE REPRESENTATIVE. PROVIDE SEAL-OFF (EYS) AT HAZARDOUS BOUNDARY.
- 10. FIXED IN PLACE BOLLARD. SEE SHEET E-5, DETAIL-3.
- 11. GROUND ROD AND CONDUCTOR. SEE SINGLE LINE DIAGRAM.

REVISIONS:

EXPIRES: 6/30/19 THOMA #18-8166

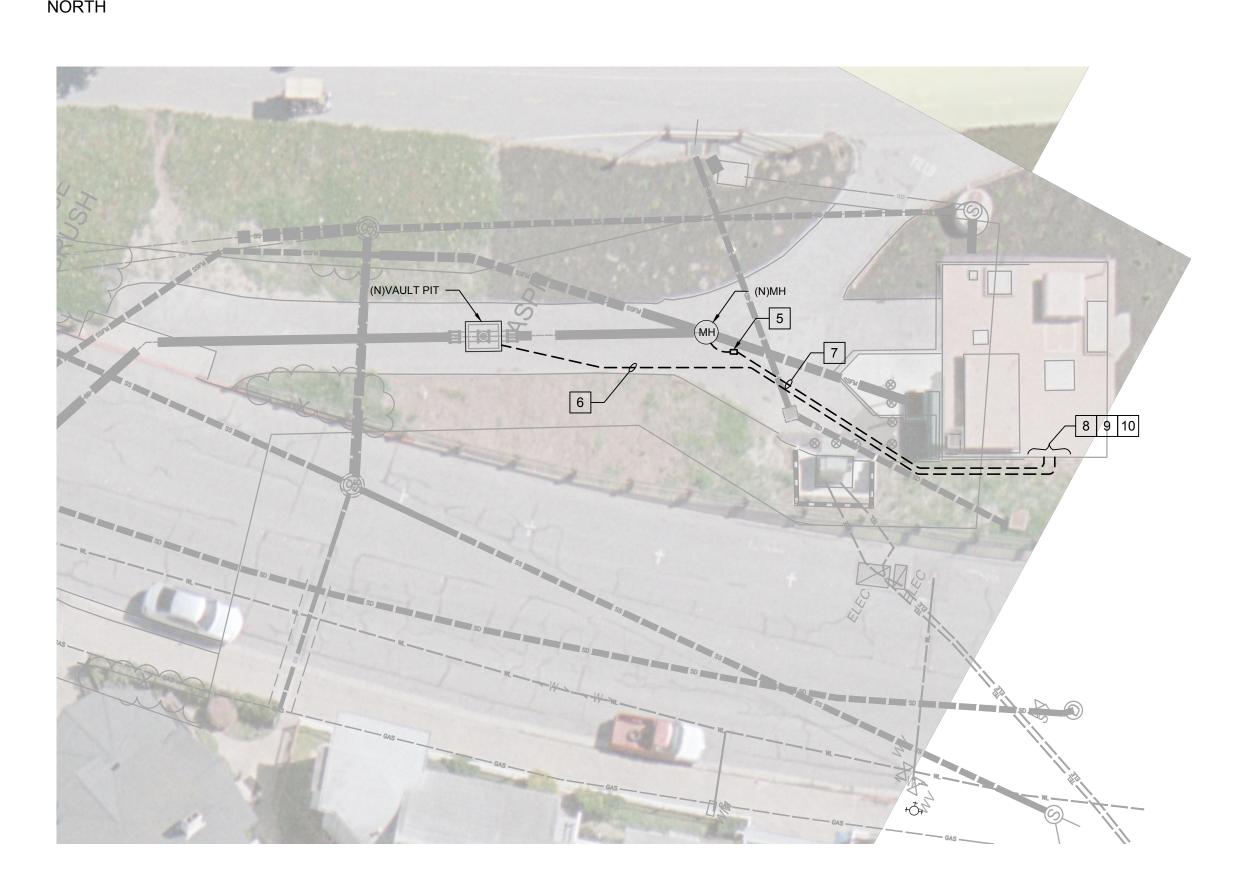
CITY OF PACIFIC GROVSEA PALM LIFT STATIC LOVERS POINT LIFT ST

SEA PALM
LIFT STATION NO.
SITE PLAN

DRAWN BY: TR CHECKED BY: CP DATE: FEB. 15, 2019 SCALE: AS NOTED

E-3







□ REFERENCE NOTES

- 1. SEE PG&E HANDOUT PACKAGE FOR SITE SERVICE REQUIREMENTS.
- 2. PG&E TRANSFORMER AND 120/240, 1Ø, 100A, NEMA 3R METER MAIN PEDESTAL WITH LOAD CENTER. SEE SINGLE LINE DIAGRAM AND PANEL SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REPRESENTATIVE.
- 3. CONTROL PANEL PAD MOUNTED NEMA 3R, 60"H X 48"W Z 18"D, SS ENCLOSURE WITH CONTINUOUS HINGED DOOR, LOCKABLE 3-POINT LATCHING DOOR AND FULL SIZE BACKPANEL. PROVIDE SEISMIC FREE-STANDING KITS AS REQUIRED. SEE SINGLE LINE DIAGRAM AND SECTION 33 SPECIFICATIONS FOR CONTROLS REQUIREMENTS. COORDINATE EXACT LOCATION WITH MECHANICAL, CIVIL AND CITY REPRESENTATIVE.
- 4. 11"X17" UNDERGROUND CONCRETE PULL BOX WITH BOLTED TRAFFIC RATED COVER. MARK COVER "COMMUNICATIONS". PROVIDE CONDUIT SEAL-OFFS AS REQUIRED.
- 1"C. FOR LEVEL TRANSDUCER IN TANK. CABLE PROVIDED BY OTHERS, EC INSTALLED. COORDINATE CABLE LENGTH REQUIRED WITH CONTROLS CONTRACTOR.
- 6. (3)#12 THNN/THWN CU, (1)#12 GND. 3/4"C. FOR MOTOR DRIVEN VALVE POWER. (1)2 TWSP WITH DRAIN WIRE, 18 AWG 3/4"C. FOR MOTOR DRIVEN VALVE CONTROL. PROVIDE NEMA 3R J-BOXES IN VALVE PIT AND LIQUID TIGHT FLEX CONDUIT FOR EACH CIRCUIT IN THE VALVE PIT.
- 7. 1"C. FOR DOPPLER FLOW METER SENSOR IN MANHOLE. CABLE PROVIDED BY OTHERS, EC INSTALLED. COORDINATE CABLE LENGTH WITH CONTROLS CONTRACTOR.
- 8. COORDINATE EXACT INSTALLATION LOCATION OF DOPPLER FLOW CONTROLLER (PROVIDED BY OTHERS, EC INSTALLED) INSIDE PUMP STATION AND CONTROLLER POWER SOURCE AND PLC CONNECTIONS WITH MONTEREY ONE REPRESENTATIVE. PROVIDE ALL CABLE, CONDUITS, SUPPORTS, RECEPTACLE, ETC. REQUIRED FOR THE OPERATIONAL USE OF THE DOPPLER FLOW METER AND DOPPLER FLOW CONTROLLER.
- 9. PROVIDE CONDUIT, WIRE, HANGERS ETC. AS REQUIRED FOR CONNECTION AND OPERATION OF THE MOTOR OPERATED VALVE. COORDINATE WITH MONTEREY ONE REPRESETATIVE FOR TERMINATION LOCATION.
- 10. PENETRATE (E) STRUCTURE WALL AT APPROXIMATELY 6' (±1') BELOW GRADE. PATCH AND SEAL WALL MONTEREY ONE REQUIREMENTS. RETURN SITE LANDSCAPE TO ORIGINAL CONDITION. COORDINATE EXACT PENETRATION LOCATIONS WITH MONTEREY ONE REPRESENTATIVE PRIOR TO START OF WORK.
- 11. GROUND ROD AND CONDUCTOR. SEE SINGLE LINE DIAGRAM.

ROESSOW JAM A.

REVISIONS:

EXPIRES: 6/30/19
THOMA #18-8166

EO ST., SUITE (BISPO, CA 9340 (805) 543-3850

SAN LUIS OBISPO, C PHONE: (805) 543 FAX: (805) 543-3

CITY OF PACIFIC GROVE
SEA PALM LIFT STATION 15
LOVERS POINT LIFT STATION

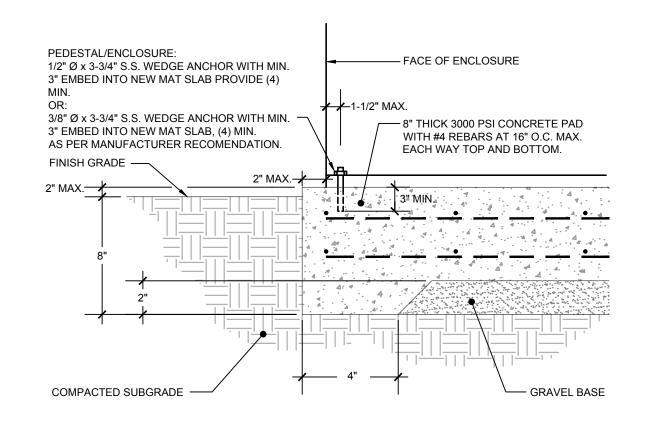
SHEET TITLE:

LOVERS POINT
LIFT STATION NO. 13
SITE PLAN

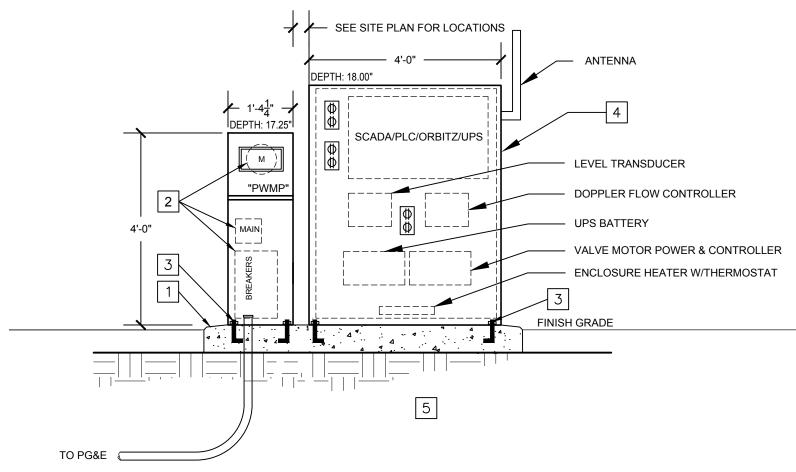
DRAWN BY: TR
CHECKED BY: CP
DATE: FEB. 15, 2019
SCALE: AS NOTED

<u>-4</u>

TYP. FEEDER/BRANCH CONDUIT TRENCH DETAIL NTS



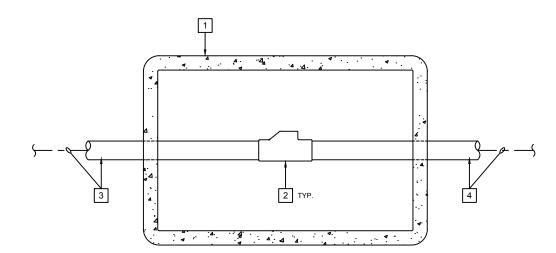
ENCLOSURE/METER-MAIN MOUNTING SECTION



☐ REFERENCE NOTES

- 1. 3000PSI CONCRETE PAD WITH CHAMFERED EDGE. SLOPE EDGE AT 1/2% TO DRAIN. COORDINATE MINIMUM REQUIRED DIMENSIONS PER MOUNTING FRAME OF APPROVED EQUIPMENT AND PG&E REQUIREMENTS. SEE DETAIL 5, THIS SHEET.
- COMMERCIAL METER PEDESTAL WITH PG&E METER SOCKET AND TEST BLOCKS AND 12 CIRCUIT LOAD CENTER. 100 AMP, 120/240 VOLT, 1Ø, 3 WIRE PER SINGLE LINE DIAGRAM. PROVIDE NEMA 3R 316 STAINLESS STEEL ENCLOSURE. AIC RATING PER PG&E REQUIREMENT.
- 3. STAINLESS STEEL ANCHOR BOLTS. SEE DETAIL 5, THIS SHEET.
- 4. CONTROL PANEL. SURFACE MOUNTED 60"H x 48"W x 18"D MINIMUM, NEMA 3R ENCLOSURE WITH FULL SIZE BACKBOARD, CONTINUOUS HINGED DOOR WITH LOCKABLE THREE POINT LATCHING, ENCLOSURE HEATER WITH THERMOSTAT, SCADA, PLC, ORBITZ COMMUNICATION UNIT AND ANTENNA, LEVEL TRANSDUCER, DOPPLER FLOW CONTROLLER AND MOTOR OPERATED VALVE POWER AND CONTROL HARDWARE. PROVIDE ALL WIRING, FUSES, DIN RAILS, CONTACTORS, SCADA, PLC, PROGRAMMING ETC. AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM PER APPLICABLE SPECIFICATION SECTIONS IN DIVISION 33 AND DIVISION 40.
- 5. SEE SINGLE LINE DIAGRAM AND SITE PLANS FOR CONDUIT AND WIRING REQUIREMENTS.

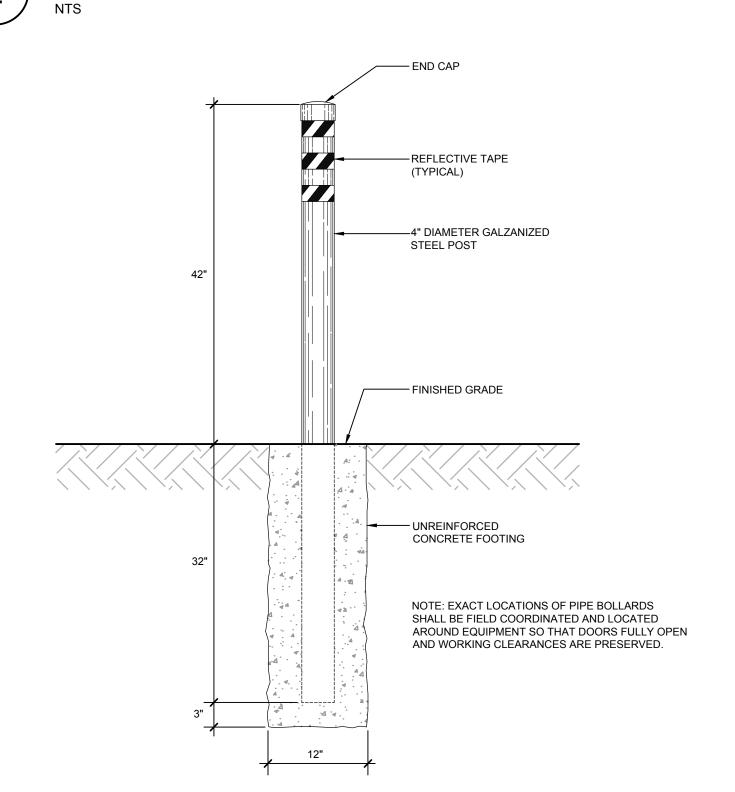
1 ELEVATION AT PEDESTAL



☐ REFERENCE NOTES

- 1. 11"x17" CONCRETE PULLBOX. PROVIDE TRAFFIC RATED LID STAMPED "COMMUNICATIONS".
- 2. EYS FITTINGS. SEAL WITH SEALING COMPOUND AFTER CABLE INSTALLATION.
- 3. 1" C FROM CONTROL PANEL WITH DEVICE CABLE.
- 4. 1" C TO END DEVICE (STORAGE TANK OR MANHOLE).

TYPICAL PULL BOX WITH SEAL-OFF (PLAN VIEW)



PROTECTIVE PIPE BOLLARD NTS

REVISIONS:

BY:

ROESOW

NO. 10757

NO. 10757

REVISIONS:

EXPIRES: 6/30/19

THOMA #18-8166

62 EMPLEO ST., SUITE N LUIS OBISPO, CA 934 PHONE: (805) 543-3850 FAX: (805) 543-3829

CITY OF PACIFIC GROVE
SEA PALM LIFT STATION 15
LOVERS POINT LIFT STATION 13

AL DETAILS

SHEET TITLE:

ELECTRICAL DE

DRAWN BY: TR
CHECKED BY: CP
DATE: FEB. 15, 2019
SCALE: AS NOTED
SHEET:____

E-5