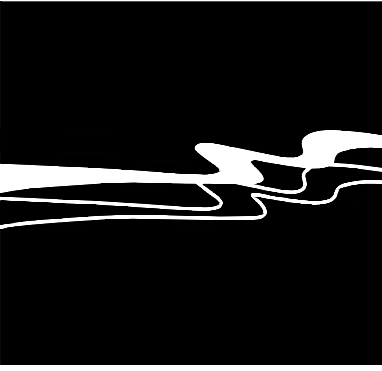


IMPROVEMENT PLANS
FOR
PACIFIC GROVE- MONTEREY ASBS WET-DRY
WEATHER STORM WATER CAPTURE AND
DIVERSION PROJECT
CITY OF PACIFIC GROVE, MONTEREY COUNTY, CA
STATE WATER RESOURCES CONTROL BOARD

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

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

DRAWING NO.

G-1

1 OF 33 SHEETS

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 ENDORSEMENT OF RECOMMENDATION FOR USE.

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Rev.	Date	Description of Revisions	By

D1612658- CITY OF PACIFIC GROVE 100% PLAN ANALYSIS				
SITE	SCOPE DESCRIPTION	SCOPE MINIMUM QUANTITY REQUIRED	QUANTITY SHOWN ON 100% PLANS	COMMENTS
LOVER'S POINT DIVERSION	STORM DRAIN PIPELINE	2,300 LF	2,335 LF	
	STORM DRAIN MANHOLES	20	21	
	DIVERSION STRUCTURES	3	4	
	VALVE VAULT W/ FLOW-METER AND CONTROL VALVE	1	1	FLOW METER IN STORM DRAIN MANHOLE DOWNSTREAM OF VALVE VAULT.
	UNDERGROUND RESERVOIR (CAPACITY)	400,000 GAL	367,081 GAL	CAPACITY DECREASE DUE TO REFINEMENT OF HYDROLOGY AND HYDRAULICS.
SEA PALM DIVERSION	STORM DRAIN PIPELINE	270 LF	301 LF	
	STORM DRAIN MANHOLES	2	4	
	DIVERSION STRUCTURES	1	1	
	VALVE VAULT W/ FLOW-METER AND CONTROL VALVE	1	1	FLOW METER IN STORM DRAIN MANHOLE DOWNSTREAM OF VALVE VAULT.
	UNDERGROUND RESERVOIR (CAPACITY)	50,000 GAL	48,560 GAL	CAPACITY DECREASE DUE TO REFINEMENT OF HYDROLOGY AND HYDRAULICS.
	REHABILITATE OR REPLACE SANITARY SEWER PIPELINE	1,800 LF	1,376 LF	SECTION OF SEWER MAIN WAS PREVIOUSLY REPLACED BY THE CITY AND IS NO LONGER A PART OF THE PROJECT.
	REHABILITATE OR REPLACE SANITARY SEWER MANHOLES	7	10	

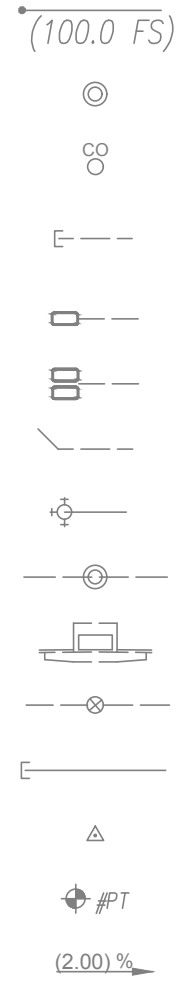
ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
ASCC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ARV	AIR RELEASE VALVE
A&V	AIR AND VACUUM (COMBINATION) VALVE
AVG	AVERAGE
BC	BEGIN CURVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BIA	BUREAU OF INDIAN AFFAIRS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BALL VALVE
C	CURB
CAV	COMBINATION AIR VALVE
CATV	CABLE TELEVISION
CI	CAST IRON
CL	CENTERLINE
CL	CLASS
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CATHODIC PROTECTION
CPLG	COUPLING
CY	CUBIC YARD
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
D/W	DRIVEWAY
E	EXISTING
EA	EACH
EC	END CURVE
ELE	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
EG	EXISTING GROUND
FCA	FLANGE COUPLING ADAPTOR
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FIRE	FIRE LINE
FLG	FLANGE
FS	FINISH SURFACE
FT	FEET
GAS	GAS
GAGE	GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
JP	JOINT POLE
JT	JOINT UTILITY TRENCH
L	LENGTH
LAT	LATERAL
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
M	METER
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MH	MANHOLE
N/A	NOT APPLICABLE
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE
PH	POTHOLE (UTILITY WAS POTHOLED)
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REGULATING VALVE
PSF	POUND PER SQUIRE FOOT
PSI	POUND PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
RT	RIGHT
R/W	RIGHT OF WAY
RET WALL	RETAINING WALL
SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SPEC	SPECIFICATIONS
SSFM	SANITARY SEWER FORCE MAIN
STA	STATION
STD	STANDARD
STL	STEEL
SW	SIDEWALK
T	TELEPHONE
TB	THRUST BLOCK
TB	TOP OF BANK
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TYP	TYPICAL
TW	TOP WALL
UTL	COMMON TRENCH UTILITIES
VAR	VARIES
VC	VERTICAL CURVE
VIC	VICTAULIC COUPLING
VERT	VERTICAL
W	WATER
WF	WIDE FLANGE
WL	WATER LINE
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE
WWM	WELDED WIRE MESH
WW	WET WELL

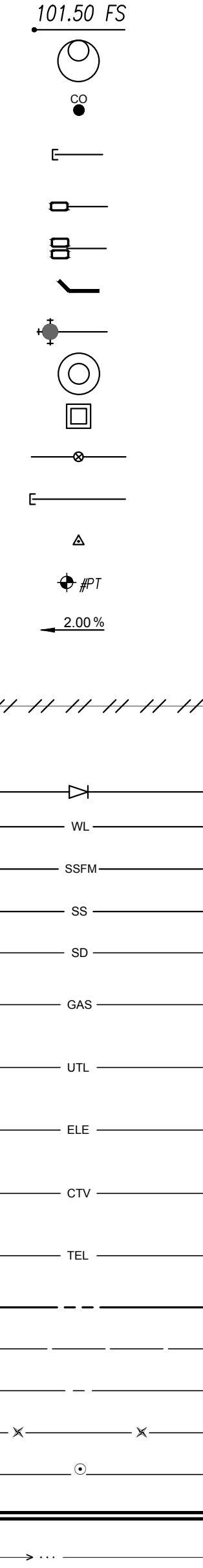
*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS.
NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.

LEGEND

EXISTING



PROPOSED



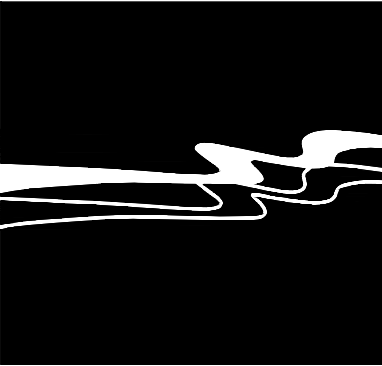
DESCRIPTION

SPOT ELEVATIONS
SEWER MANHOLE
SEWER CLEANOUT
SERVICE LATERAL (W=WATER, G=GAS, U=UTILITIES)
SERVICE METER (W=WATER)
DOUBLE SERVICE METER (W=WATER)
SEWER LATERAL
FIRE HYDRANT
STORM DRAIN MANHOLE
STORM DRAIN CATCH BASIN
GATE VALVE
CAP
SURVEY MONUMENT
BENCH MARK
SLOPE PERCENTAGE
ABANDON UTILITY
EDGE OF PAVEMENT
REDUCER / INCREASER
WATER LINE
SEWER FORCE MAIN
GRAVITY SEWER LINE
STORM DRAIN
UNDERGROUND GAS LINE
UNDERGROUND UTILITY LINE LOCATION
UNDERGROUND ELECTRICAL LINE
UNDERGROUND CABLE TELEVISION LINE
UNDERGROUND TELEPHONE LINE
RIGHT OF WAY
EASEMENT
CENTERLINE
BARBED WIRE FENCE
CHAIN LINK FENCE
RETAINING WALL
FLOWLINE

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



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

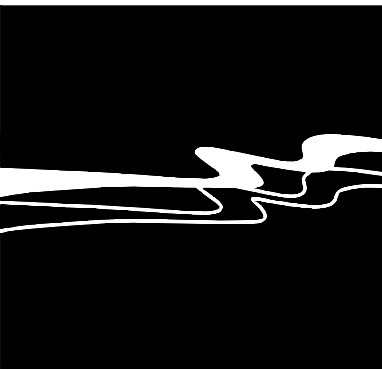
JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

DRAWING NO.

G-2

2 OF 33 SHEETS

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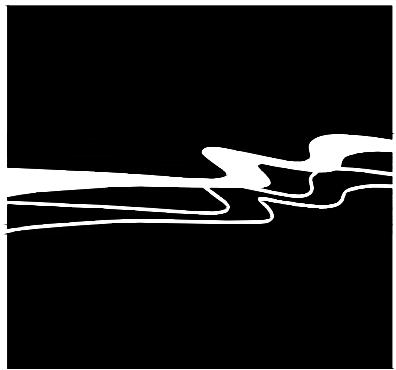
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT KEY MAP

JOB #:	1153-0003-01
DESIGNERS:	SGT/KEA
DRAWN BY:	JSW
DATE:	02/15/19

DRAWING NO.

G-3
3 OF 33 SHEETS

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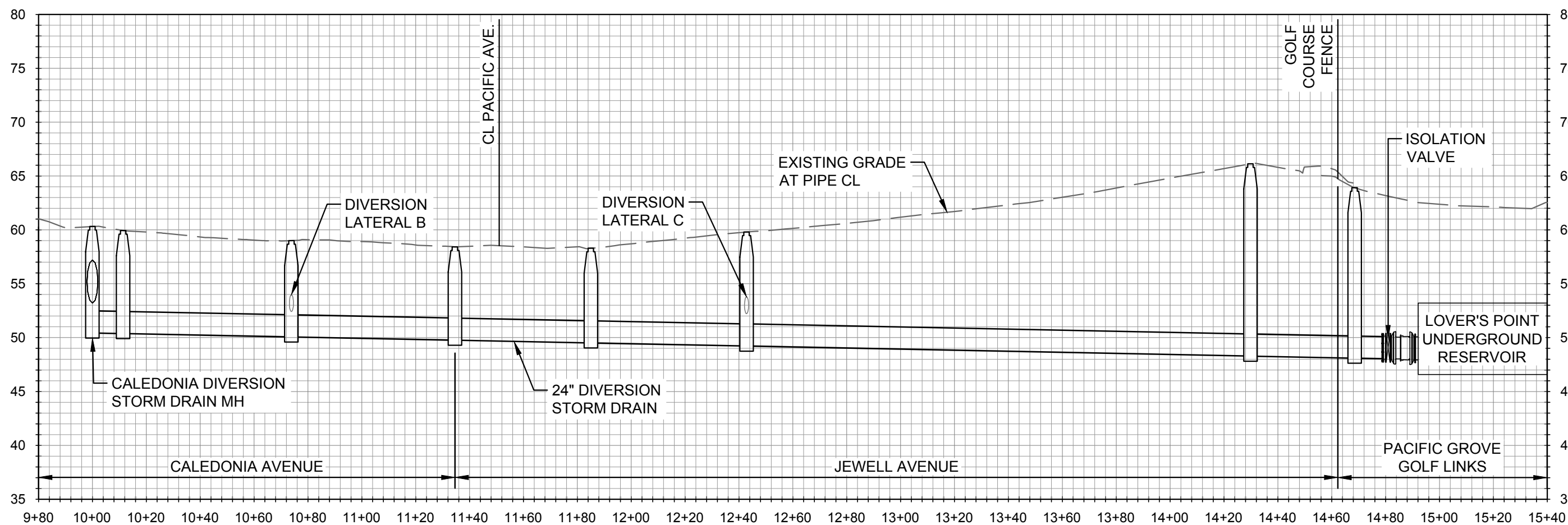
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WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT PROCESS DIAGRAM SCHEMATICJOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

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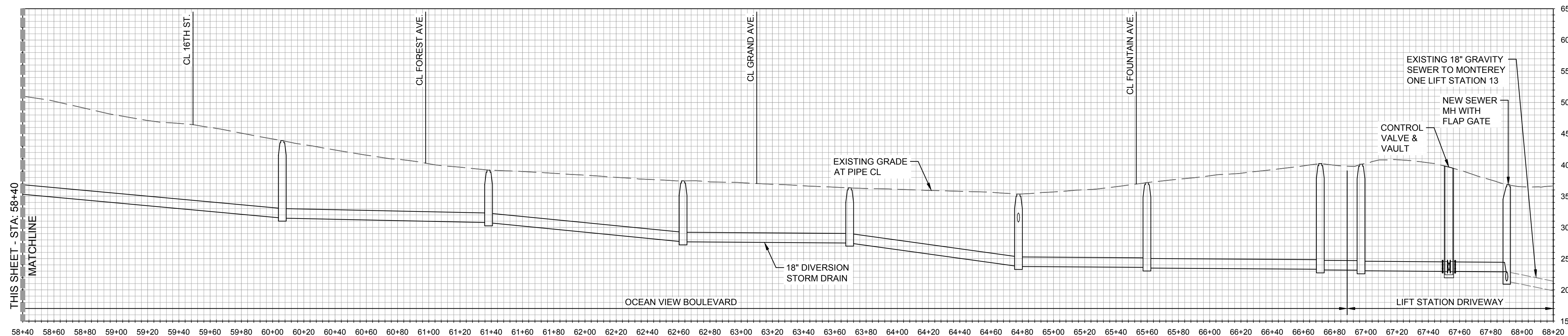
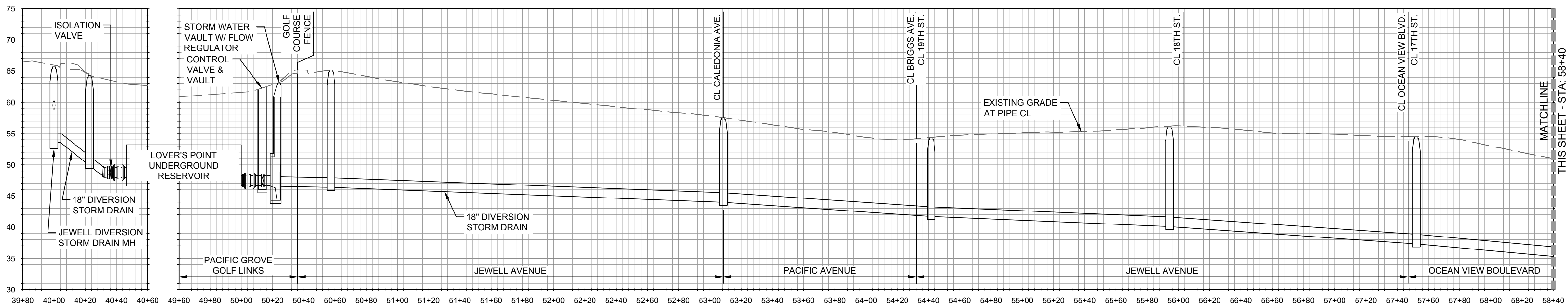
G-4

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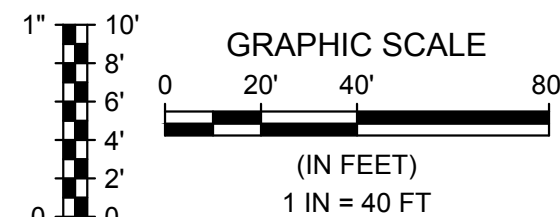
LOVER'S POINT (CALEDONIA) DIVERSION PROCESS SCHEMATIC

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



LOVER'S POINT PROCESS SCHEMATIC

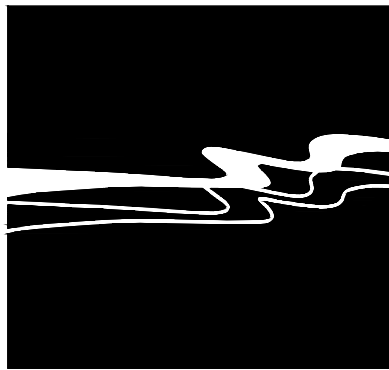
HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'



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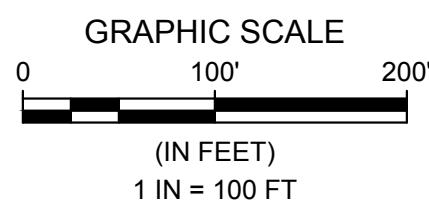
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
SEA PALM KEY MAP

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

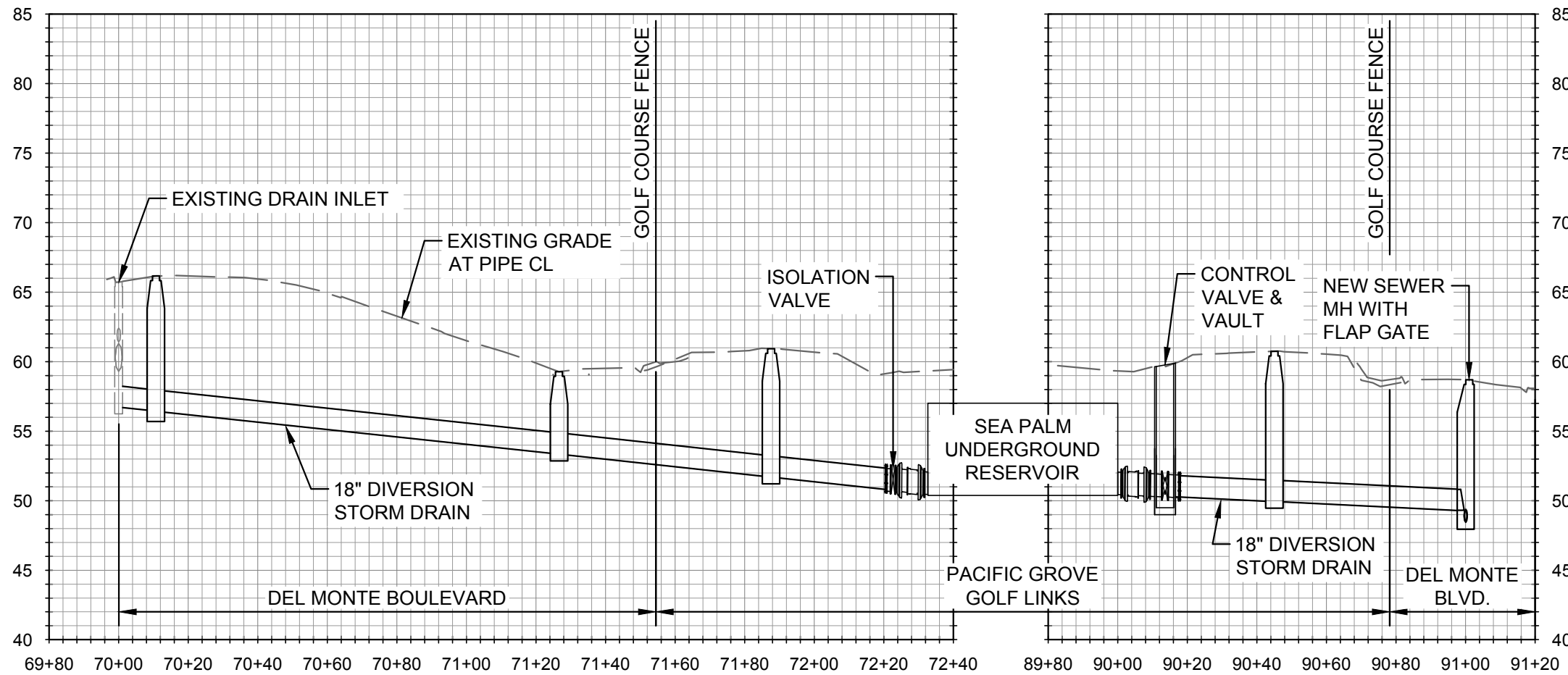
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G-5

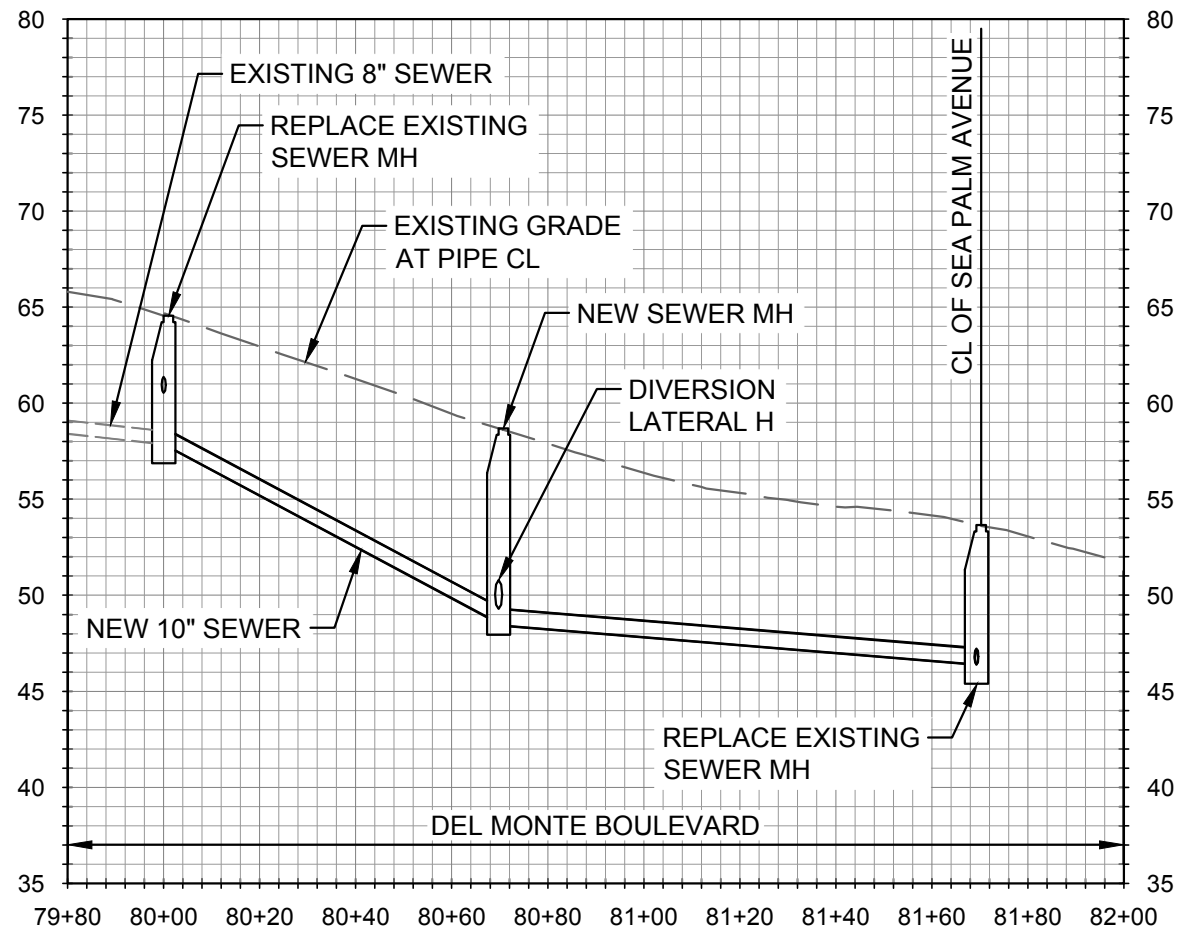
5 OF 33 SHEETS



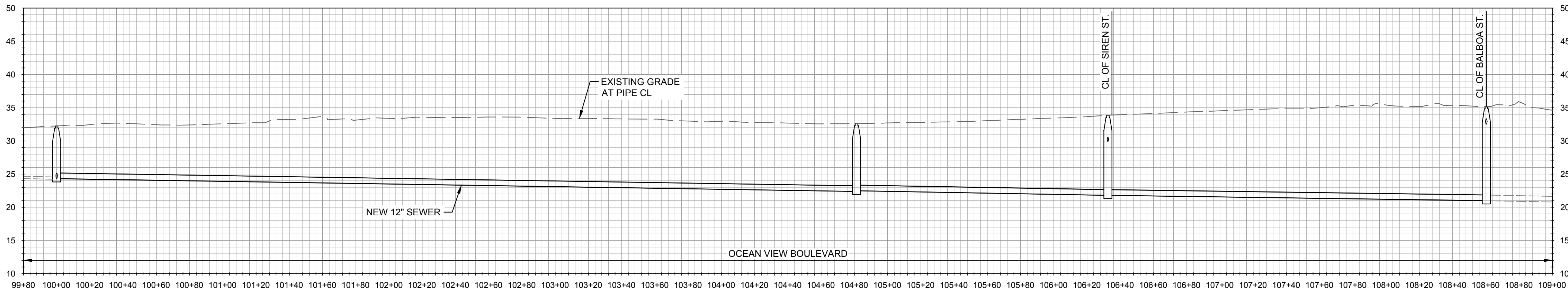
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Rev.	Date	Description of Revisions	By



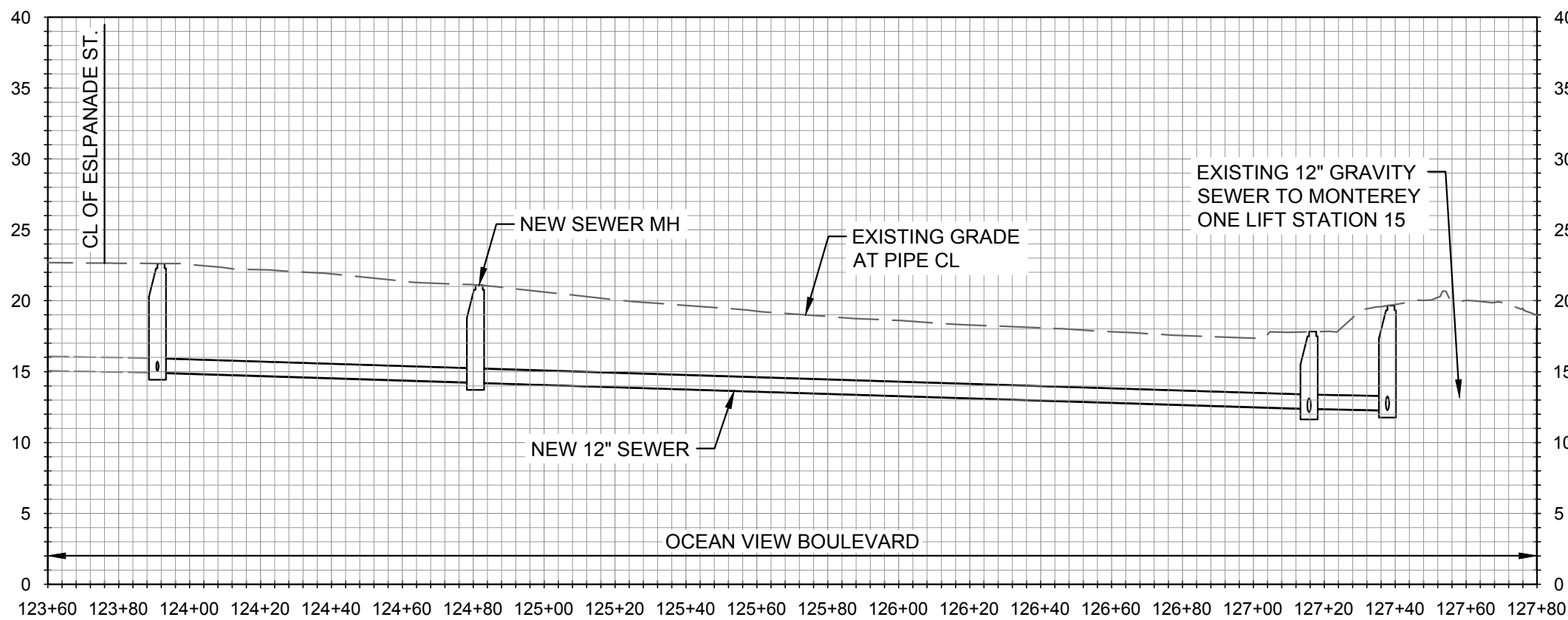
SEA PALM DIVERSION PROCESS SCHEMATIC
HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'



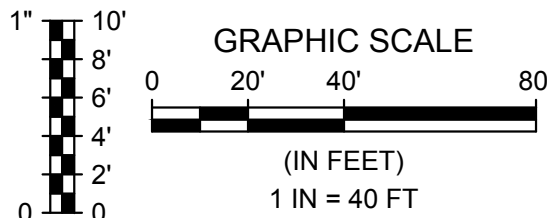
SEA PALM DIVERSION PROCESS SCHEMATIC
HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'



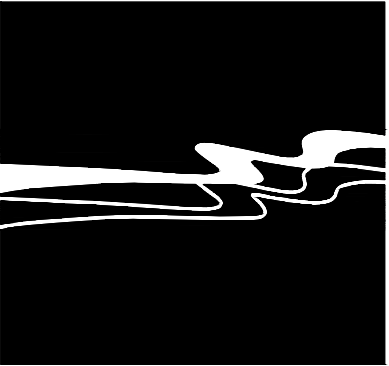
OCEAN VIEW BOULEVARD PROCESS SCHEMATIC
HORIZONTAL SCALE: 1" = 40', VERTICAL SCALE: 1" = 10'



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



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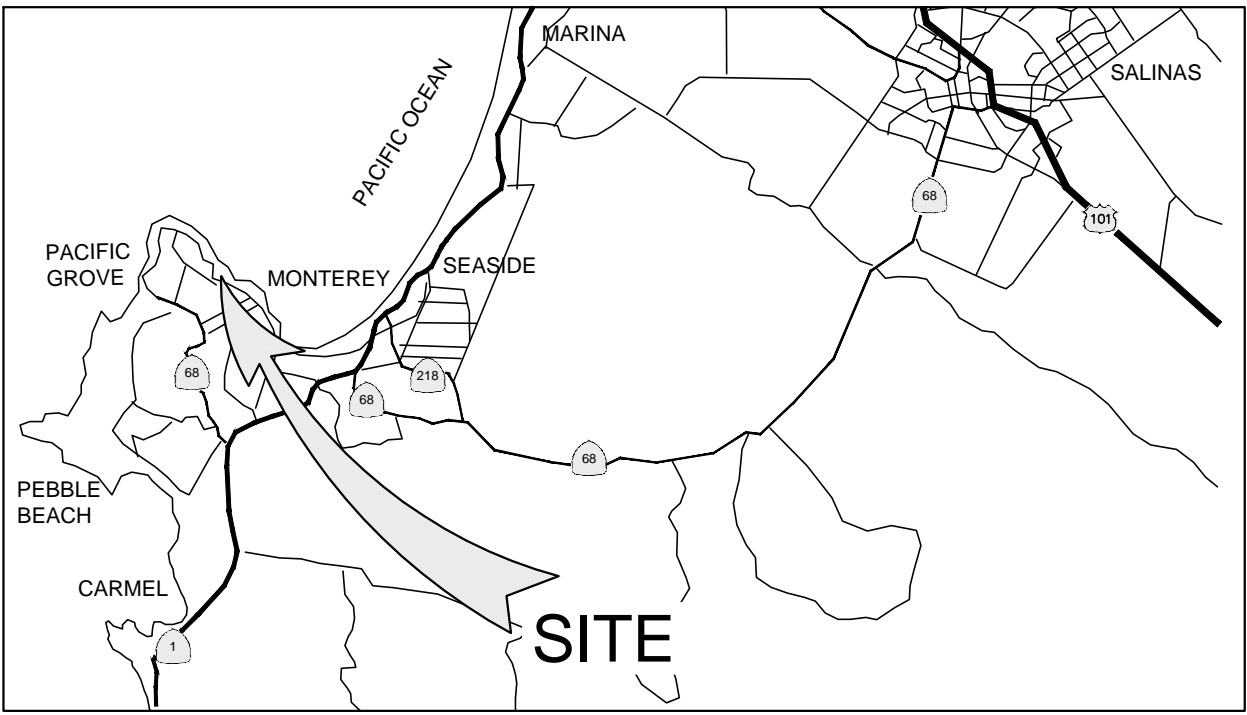
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
SEA PALM PROCESS DIAGRAM SCHEMATIC

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

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G-6
6 OF 33 SHEETS

SURVEY CONTROL



VICINITY MAP
NTS

SCALE
0 30 60 120
1 INCH = 60 FEET



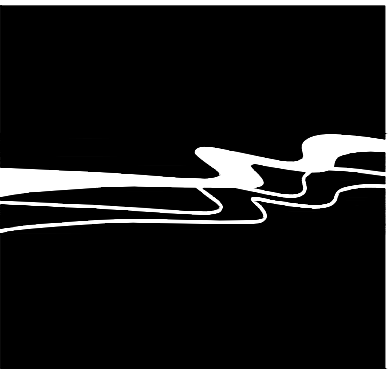
SURVEY NOTES

- THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT [NAD83(2011)], EPOCH DATE OF 2010.00.
 - THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 4 PROJECTION.
 - THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (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.
 - 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 FEET.
 - 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 1988).
 - 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.
 - 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 MAY 2018.
 - 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



SURVEY CONTROL POINTS				
PT. NO.	NORTHING	EASTING	ELEV.	DESC.
48	2123547.17	5705162.75	59.62	SET X
147	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

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



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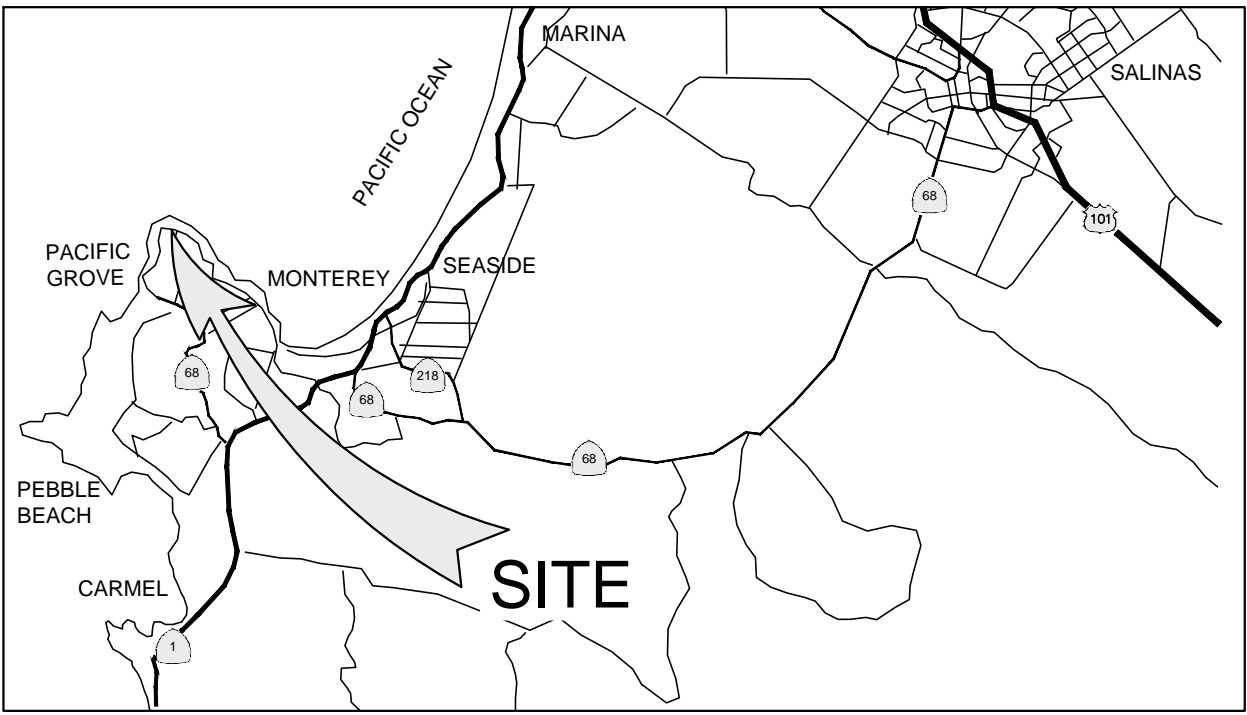


CITY OF PACIFIC GROVE
IN THE COUNTY OF MONTEREY, CA
TOPOGRAPHIC SURVEY OF LOVER'S POINT OVERVIEW

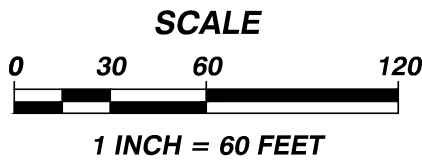
JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

DRAWING NO.
S-1
7 OF 33 SHEETS

SURVEY CONTROL



VICINITY MAP
NTS



SURVEY NOTES

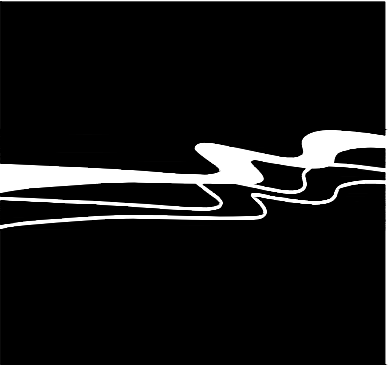
- THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT [NAD83(2011)], EPOCH DATE OF 2010.00.
- THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 4 PROJECTION.
- THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (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.
- 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 FEET.
- 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 1988).
- 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.
- 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 MAY 2018.
- 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

SURVEY CONTROL POINTS				
PT. NO.	NORTHING	EASTING	ELEV.	DESC.
157	2126910.46	5703860.94	22.05	SET X TC
158	2127149.65	5703701.73	22.55	SET X TC
159	2127370.92	5703463.09	17.68	SET X TC
249	2127235.32	5703637.28	20.35	FK NLWSH HM10
250	2127357.81	5703480.88	17.46	FK MAG

	02/15/19	ISSUED FOR BID	JSW
	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
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CITY OF PACIFIC GROVE
IN THE COUNTY OF MONTEREY, CA

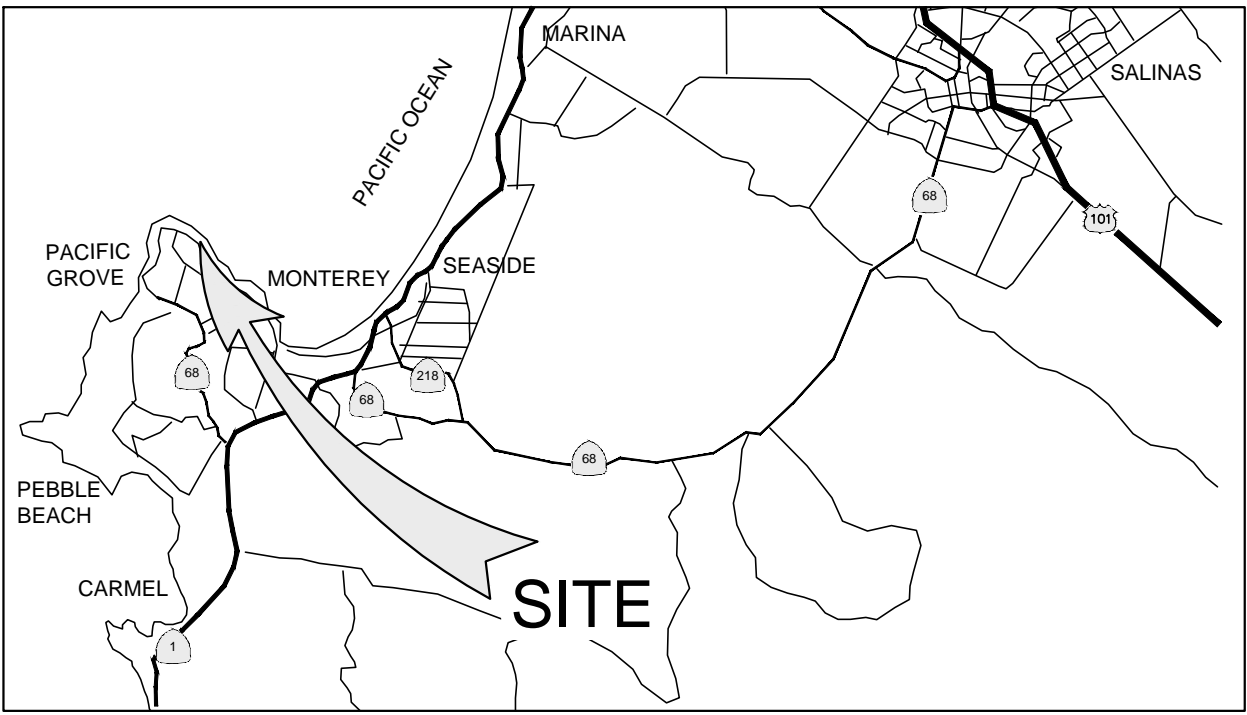
TOPOGRAPHIC SURVEY OF SEA PALM 1 OVERVIEW

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

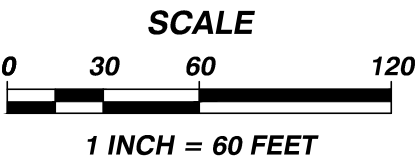
DRAWING NO.

S-2
8 OF 33 SHEETS

SURVEY CONTROL



VICINITY MAP
NTS



SURVEY CONTROL POINTS				
PT. NO.	NORTHING	EASTING	ELEV.	DESC.
22	2124827.68	5703884.24	66.37	SET CS
53	2124820.46	5704371.78	34.84	SETMAGPSS90
152	2124858.32	5704459.21	30.86	SET 5RBWG
153	2125215.07	5704391.60	33.42	SET X TCGPS
156	2125787.52	5704239.81	35.60	FK NAILWSH HM5

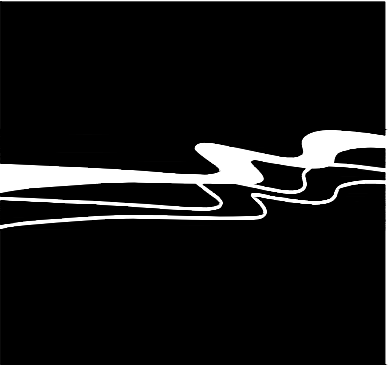
SURVEY NOTES

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- ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON 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 FEET.
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PRODUCED BY:
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PHONE: (805) 543-4307

PHOTOGRAPHY DATED: 03/28/2018

THE CONTOUR INTERVAL IS 1 FOOT

	02/15/19	ISSUED FOR BID	JSW
	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
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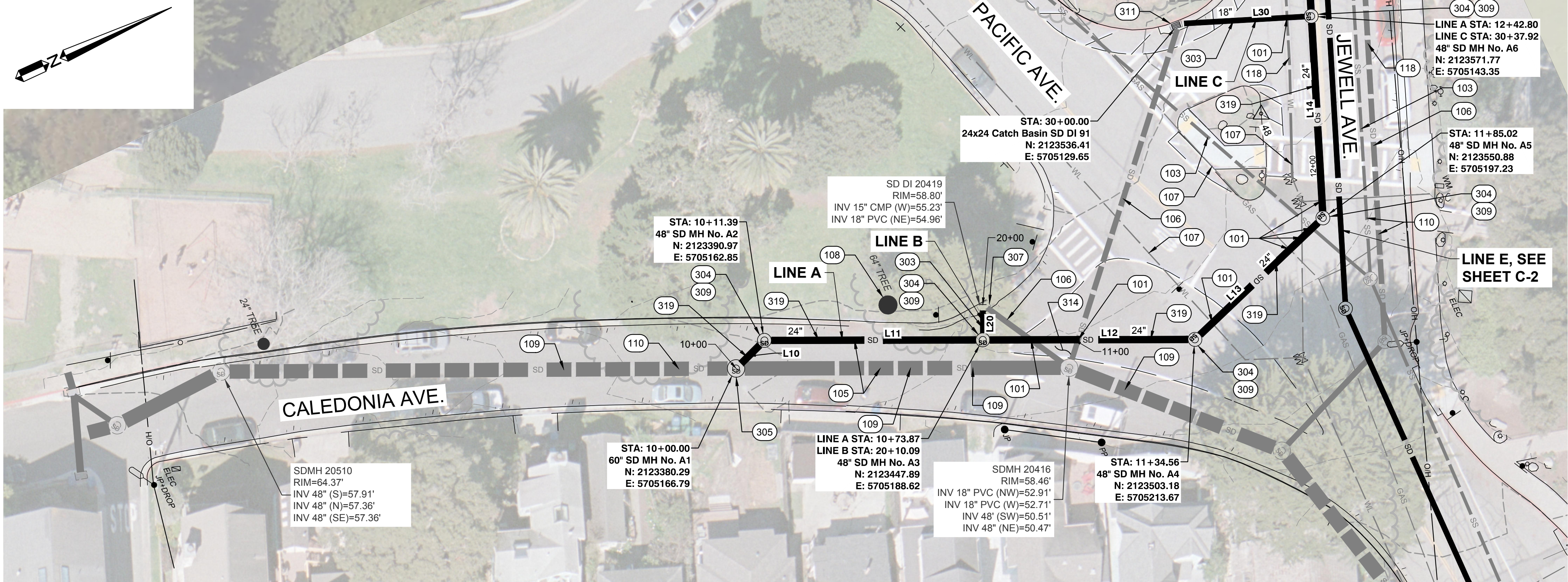
CITY OF PACIFIC GROVE
IN THE COUNTY OF MONTEREY, CA

TOPOGRAPHIC SURVEY OF SEA PALM 2 OVERVIEW

JOB #:	1153-0003-01
DESIGNERS:	SGT/KEA
DRAWN BY:	JSW
DATE:	02/15/19

DRAWING NO.

S-3
9 OF 33 SHEETS



PLAN - CALEDONIA AVENUE
SCALE: 1" = 20'

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

REFERENCE NOTES:	
	DESCRIPTION
100	GENERAL NOTES
101	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.
103	EXISTING SEWER TO REMAIN.
105	PROTECT EXISTING STORM DRAIN IN PLACE.
106	EXISTING STORM DRAIN TO REMAIN.
107	EXISTING UTILITY TO REMAIN.
108	PROTECT EXISTING TREE AND TREE ROOTS.
109	EXISTING 48" RCP STORM DRAIN TO REMAIN.
110	CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION.
118	REPAVE TRENCH TO EDGE OF EXISTING WATER AND STORM DRAIN LINE TRENCH SAW CUT LINES ALONG JEWELL AVE.
300	STORM DRAIN NOTES
303	18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.
304	STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16.
305	DIVERSION MANHOLE PER DETAIL P, SHEET C-18.
307	DIVERSION CATCH BASIN PER DETAIL R, SHEET C-18.
309	BOLTED MANHOLE LID, MARKED "CAUTION MH UNDER PRESSURE".
311	DIVERSION CATCH BASIN PER DETAIL S, SHEET C-18.
314	CAUTION- NEW CONSTRUCTION CLOSE TO EXISTING 60" MH, PROTECT EXCAVATION AND STRUCTURE IN PLACE.
319	24" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.

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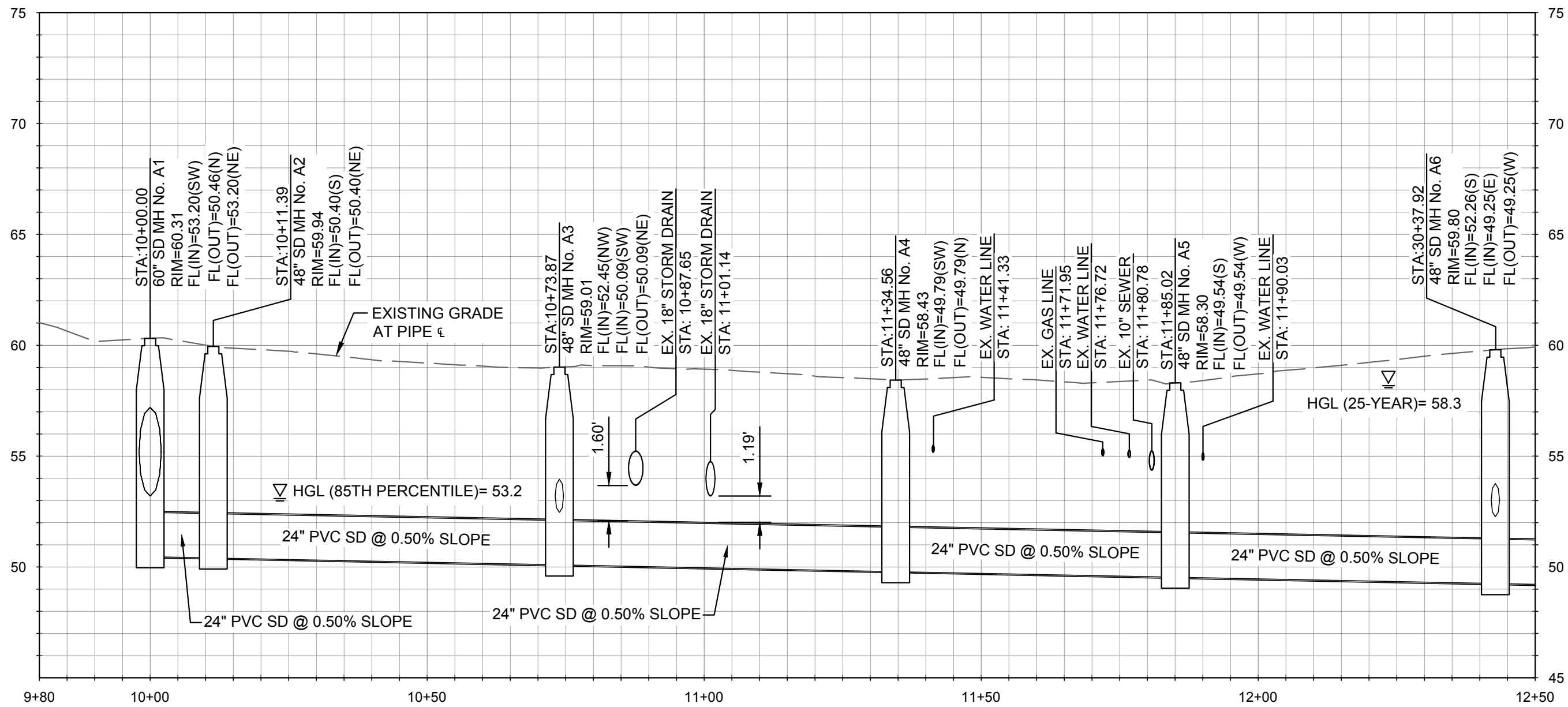
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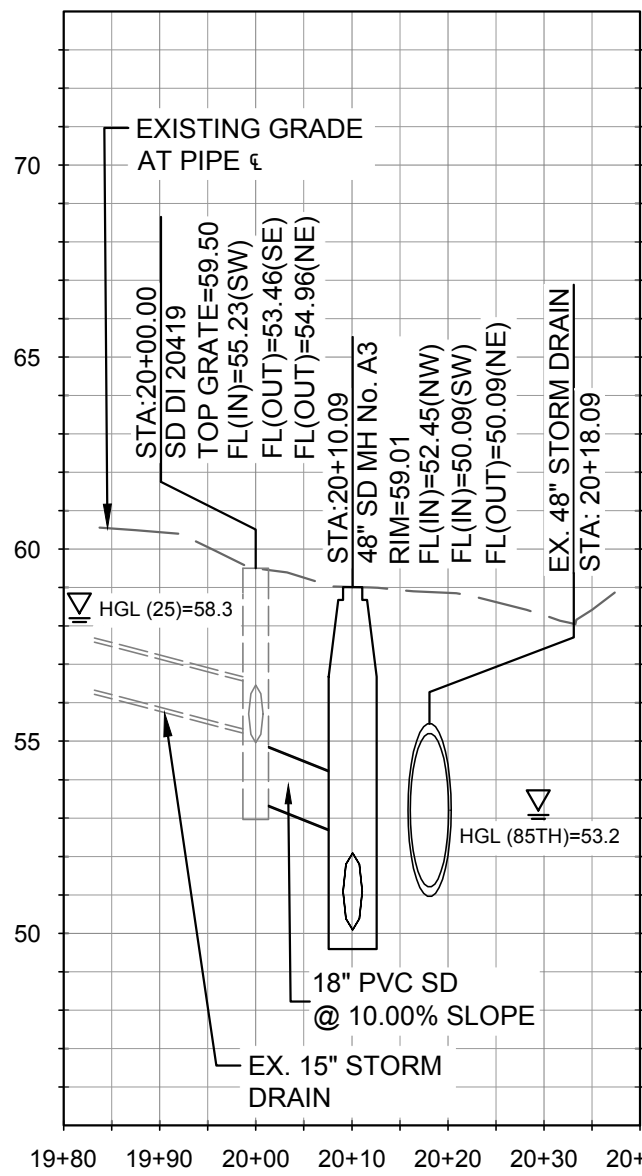
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT STORM DRAIN STA. 10+00 TO STA. 12+50

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

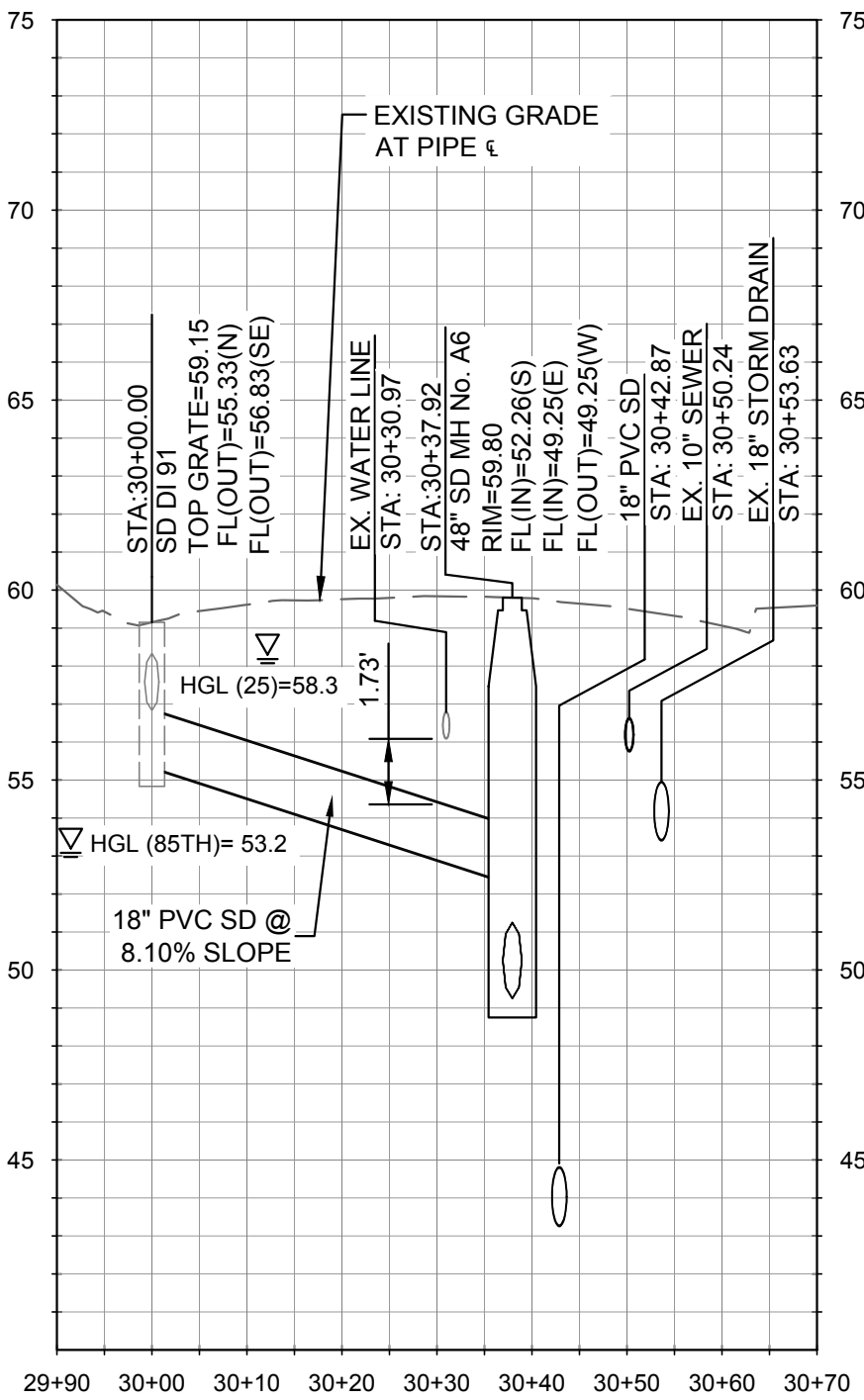
DRAWING NO.
C-1
10 OF 33 SHEETS



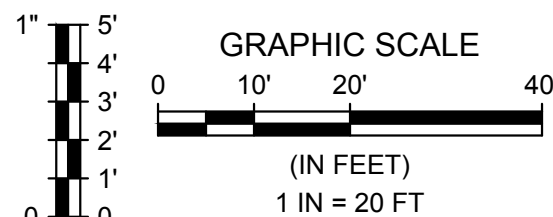
PROFILE - LINE A
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'



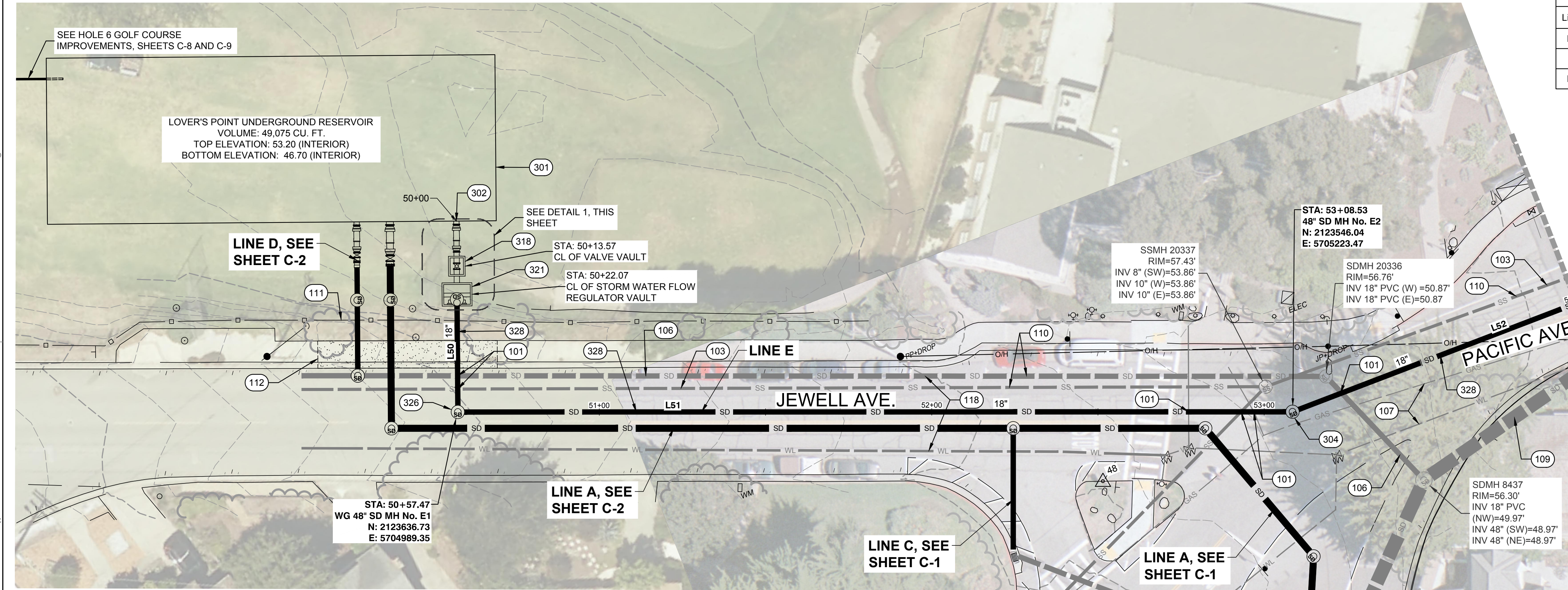
PROFILE - LINE B
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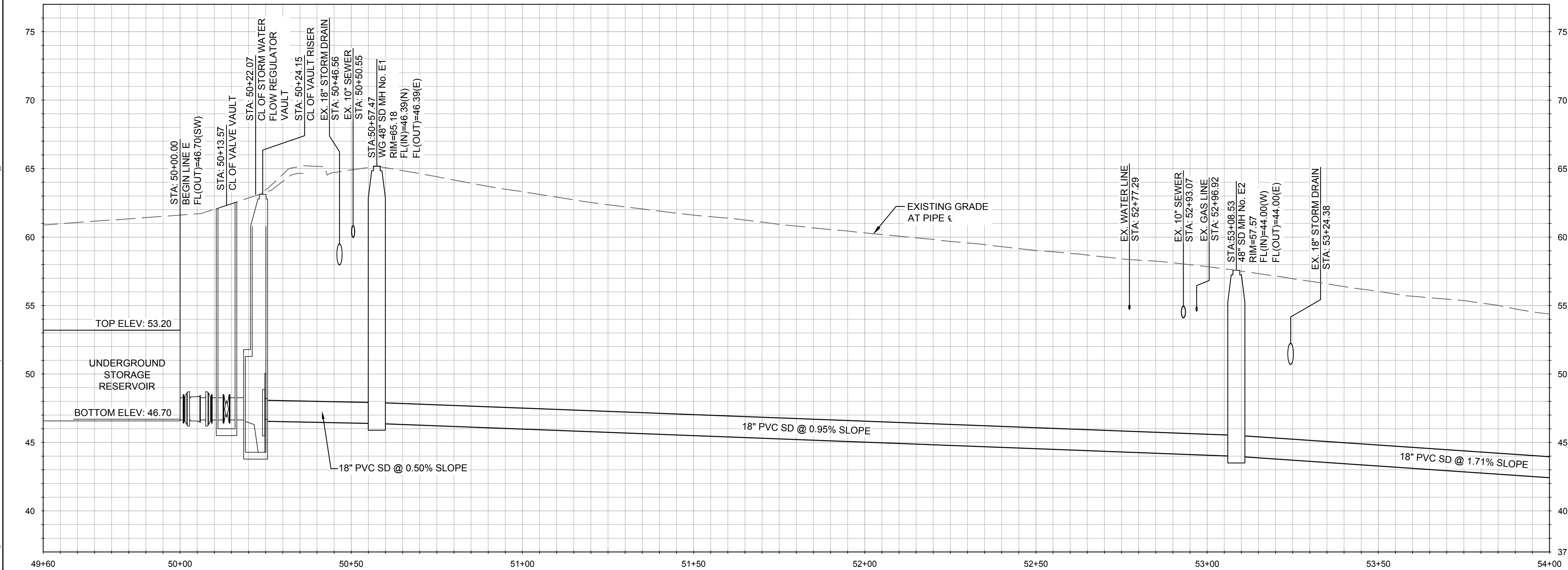
PROFILE - LINE C
HORIZONTAL SCALE: 1" = 20', VERTICAL SCALE: 1" = 5'



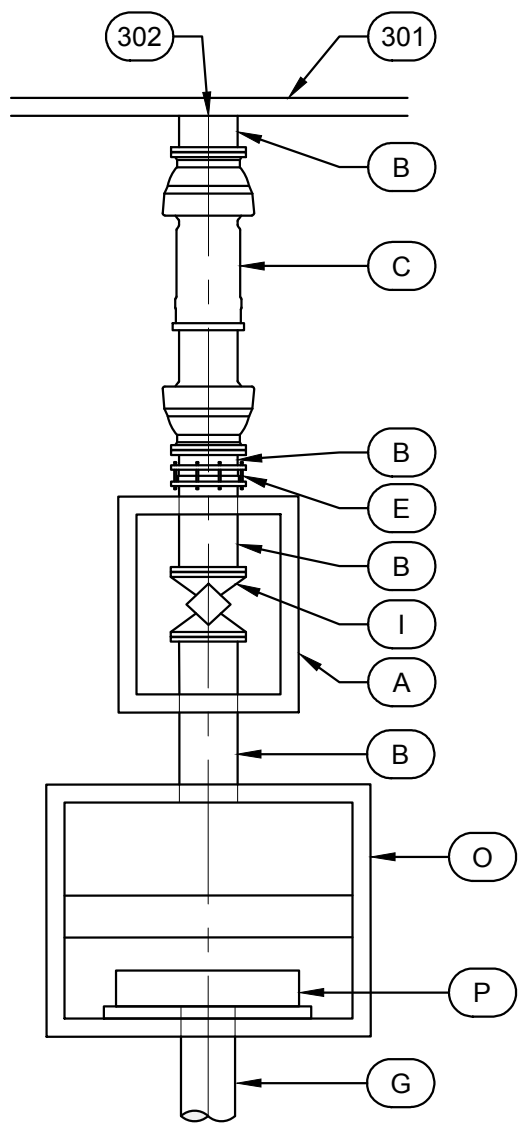
Rev.	02/15/19	ISSUED FOR BID	JSW
	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
	Date	Description of Revisions	By



PLAN - JEWELL AVENUE
SCALE: 1" = 20'



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

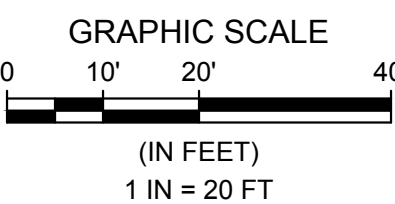
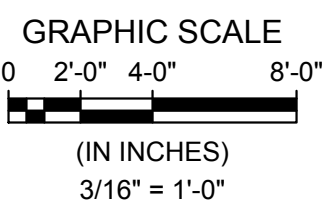


BILL OF MATERIALS

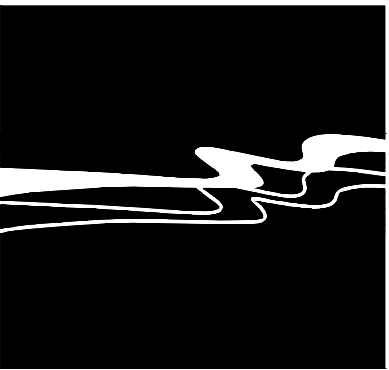
	DESCRIPTION
A	5' X 4' PRE-CAST CONCRETE VAULT WITH H-20 TRAFFIC RATED 2.5' SQUARE SINGLE LEAF HATCH OPENING.
B	18" DUCTILE IRON SPOOL, PE X FLG
C	18" DUCTILE IRON DOUBLE BALL EXPANSION JOINT BY FLEX-TEND OR APPROVED EQUAL
E	18" RESTRAINED JOINT COUPLING ADAPTER, PE X PE
G	18" PVC PIPE, SDR 35, PE X PE
I	18" DUCTILE IRON PLUG VALVE, MOTOR ACTUATED, SEE SPECIFICATIONS
J	24" DUCTILE IRON SPOOL, PE X FLG
K	24" DUCTILE IRON DOUBLE BALL EXPANSION JOINT BY FLEX-TEND OR APPROVED EQUAL
O	8' W X 6' L X 7' D PRE-CAST CONCRETE VAULT WITH 48" MAINTENANCE ACCESS RISER WITH LOCKABLE LID, MARKED OR STAMPED "STORM DRAIN", PER DETAIL B, SHEET C-16.
P	STORMWATER FLOW REGULATOR PER DETAIL U, SHEET C-18.

1 OUTLET DETAIL

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



Rev.	Date	Description of Revisions	By
1	02/15/19	ISSUED FOR BID	JSW
2	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW



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REGISTERED PROFESSIONAL ENGINEER
MARIE WAGNER
No. 66026
CIVIL
STATE OF CALIFORNIA

SIGNATURE

DATE SIGNED

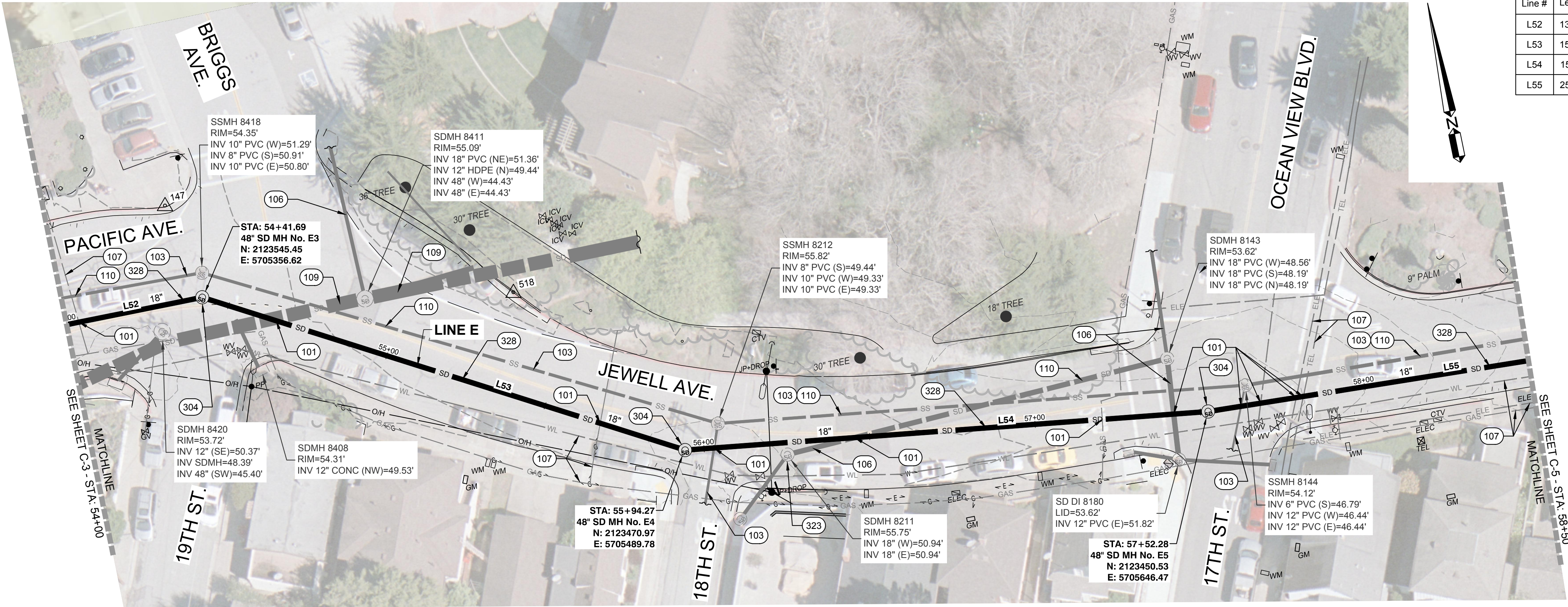
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CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASSB
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT STORM DRAIN STA. 49+60 TO STA 54+00

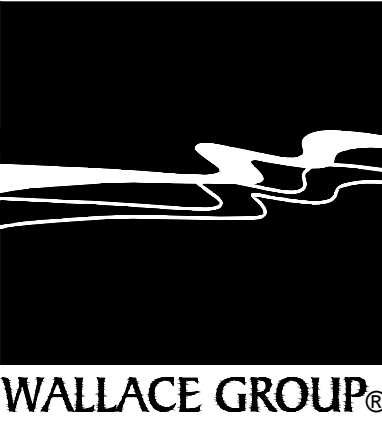
JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19
DRAWING NO.
C-3
12 OF 33 SHEETS



Line Table		
Line #	Length	Direction
L52	133.16	S89°44'52"E
L53	152.58	S60°46'50"E
L54	158.01	S82°34'01"E
L55	253.95	S87°23'23"E

REFERENCE NOTES:

	DESCRIPTION
100	GENERAL NOTES
101	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.
103	EXISTING SEWER TO REMAIN.
106	EXISTING STORM DRAIN TO REMAIN.
107	EXISTING UTILITY TO REMAIN.
109	EXISTING 48" RCP STORM DRAIN TO REMAIN.
110	CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION.
300	STORM DRAIN NOTES
304	STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16.
323	CAUTION- NEW CONSTRUCTION CLOSE TO EXISTING 48" MH, PROTECT EXCAVATION AND STRUCTURE IN PLACE.
328	18" PVC SDR 35 STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.



SIGNATURE

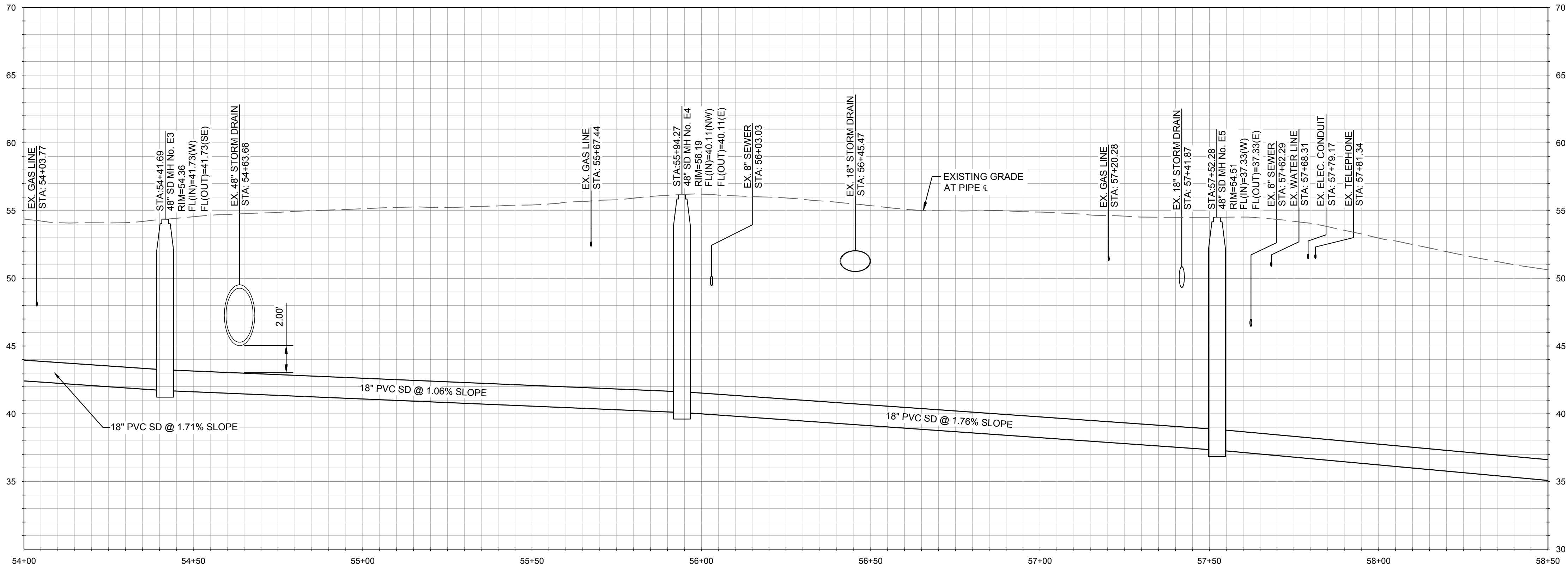
DATE SIGNED

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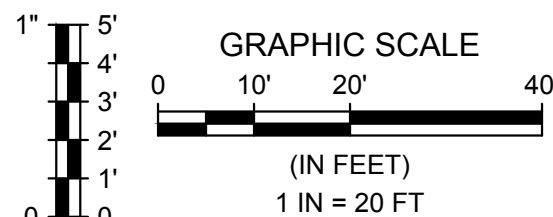
PLAN - JEWELL AVENUE

SCALE: 1" = 20'



PROFILE - LINE E

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



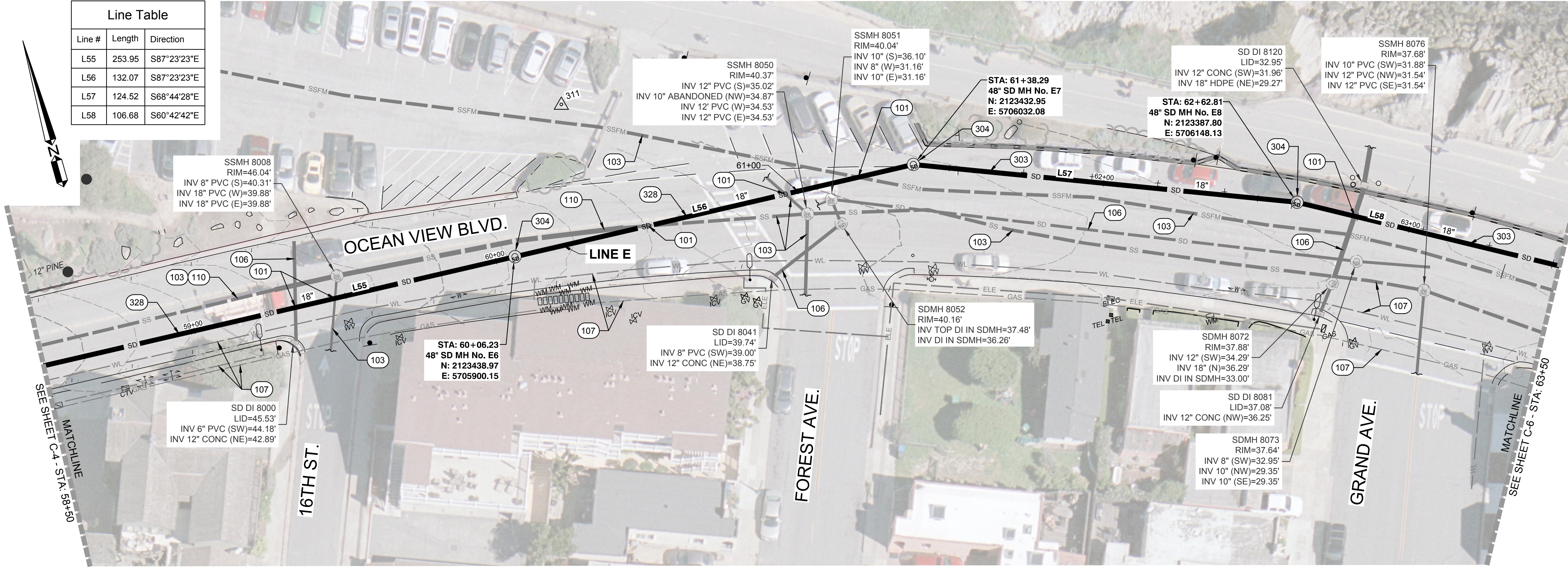
Rev.	Date	Description of Revisions	By
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CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT STORM DRAIN STA. 54+00 TO STA. 58+50

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19
DRAWING NO.
C-4
13 OF 33 SHEETS



Line Table		
Line #	Length	Direction
L55	253.95	S87°23'23"E
L56	132.07	S87°23'23"E
L57	124.52	S68°44'28"E
L58	106.68	S60°42'42"E



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

REFERENCE NOTES:	
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106	EXISTING STORM DRAIN TO REMAIN.
107	EXISTING UTILITY TO REMAIN.
110	CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION.
300	STORM DRAIN NOTES
303	18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.
304	STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16.
328	18" PVC SDR 35 STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.

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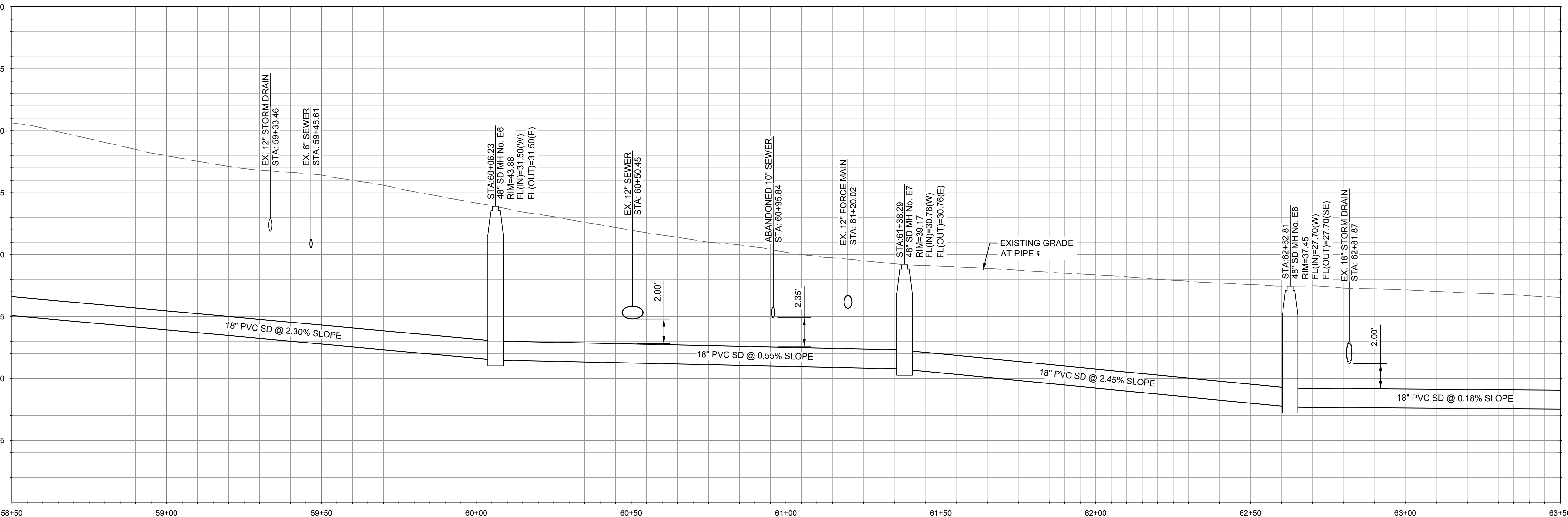
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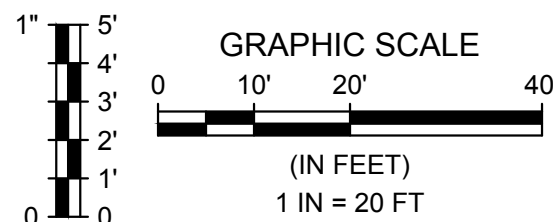
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CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT STORM DRAIN STA. 58+50 TO STA. 63+50



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

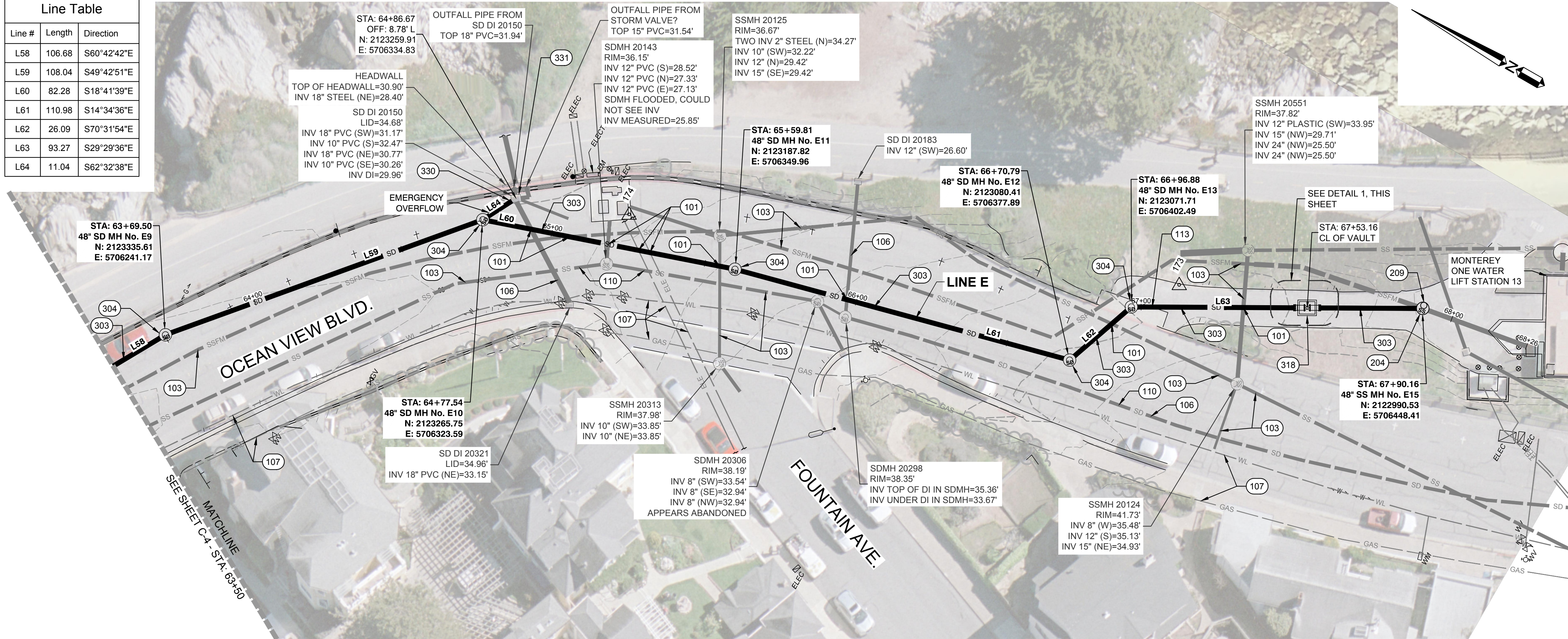


Rev.	02/15/19	ISSUED FOR BID	JSW
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	Date	Description of Revisions	By

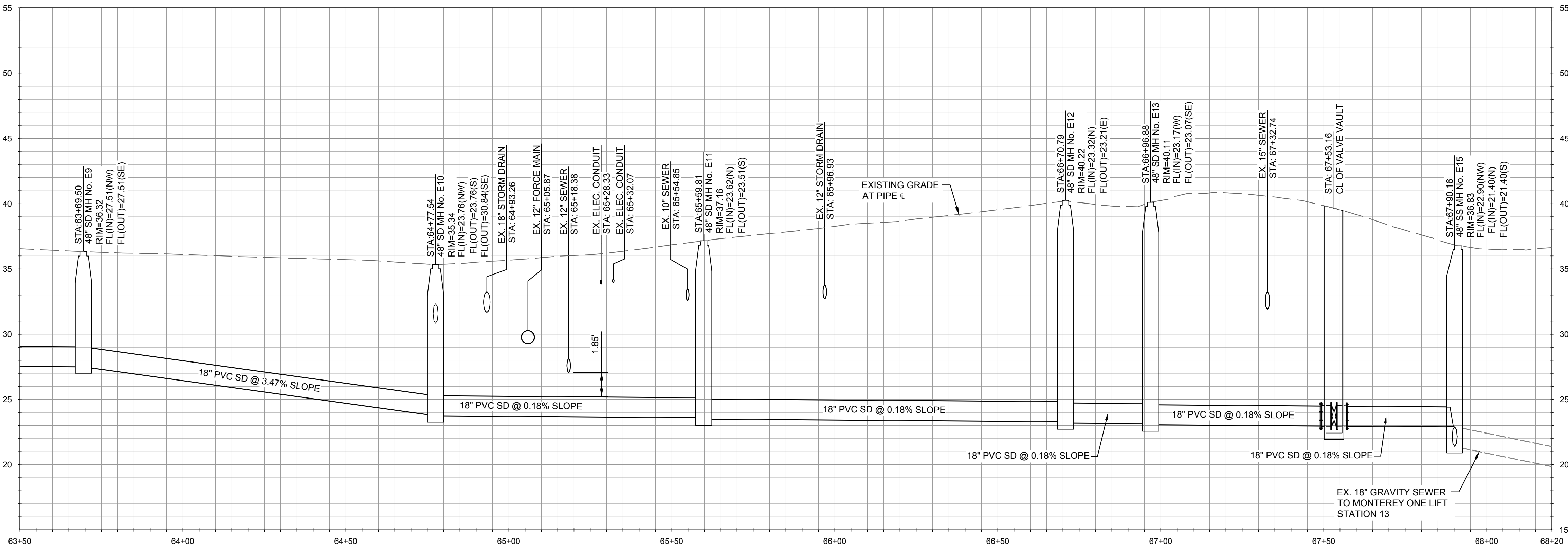
JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

DRAWING NO.
C-5
14 OF 33 SHEETS

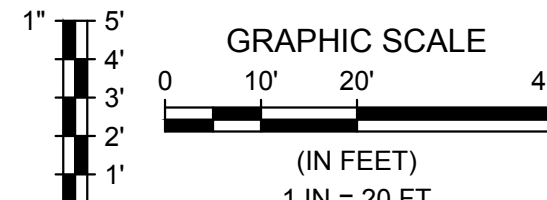
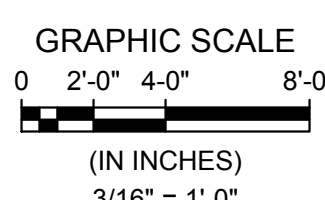
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Line #	Length	Direction
L58	106.68	S60°42'42"E
L59	108.04	S49°42'51"E
L60	82.28	S18°41'39"E
L61	110.98	S14°34'36"E
L62	26.09	S70°31'54"E
L63	93.27	S29°29'36"E
L64	11.04	S62°32'38"E



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



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

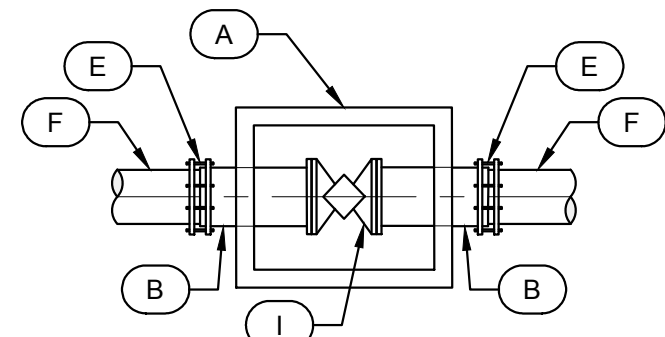


FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



REFERENCE NOTES:

	DESCRIPTION
100	GENERAL NOTES
101	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.
103	EXISTING SEWER TO REMAIN.
106	EXISTING STORM DRAIN TO REMAIN.
107	EXISTING UTILITY TO REMAIN.
110	CCTV EXISTING PIPE PRIOR TO BEGINNING CONSTRUCTION AND AFTER COMPLETING CONSTRUCTION.
113	REMOVE AND REPLACE DRIVEWAY, AS NECESSARY TO ACCOMMODATE STORM DRAIN CONSTRUCTION, PER DETAIL V, SHEET C-18.
200	SANITARY SEWER NOTES
204	SEWER MANHOLE PER DETAIL E, SHEET C-16 WITH FLAP GATE ON STORM DRAIN PIPE PER DETAIL EE, SHEET C-19.
209	COAT MANHOLE INTERIOR PER SPECIFICATION SECTION 09 97 23, CONCRETE AND MASONRY COATINGS.
300	STORM DRAIN NOTES
303	18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.
304	STORM DRAIN MANHOLE PER DETAIL B, SHEET C-16.
318	CONTROL VALVE AND VAULT PER DETAIL 1, THIS SHEET. SEE ELECTRICAL PLANS FOR POWER AND COMMUNICATION.
330	EMERGENCY OVERFLOW. 18" PVC, C900 CLASS 165, STORM DRAIN PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16.
331	CATCH BASIN PER DETAIL F, SHEET C-16. NEW 18" INVERT TO MATCH EXISTING BOTTOM OF CATCH BASIN.

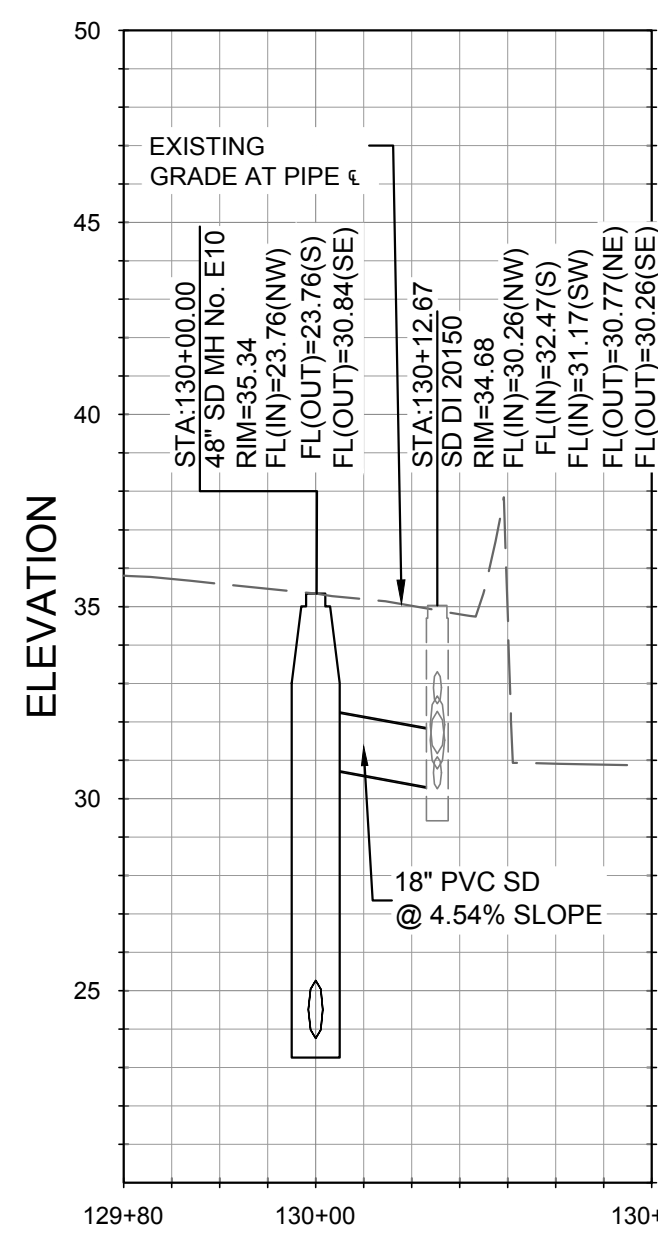


BILL OF MATERIALS

	DESCRIPTION
A	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
I	18" DUCTILE IRON PLUG VALVE, MOTOR ACTUATED, SEE SPECIFICATIONS

1 VALVE VAULT DETAIL

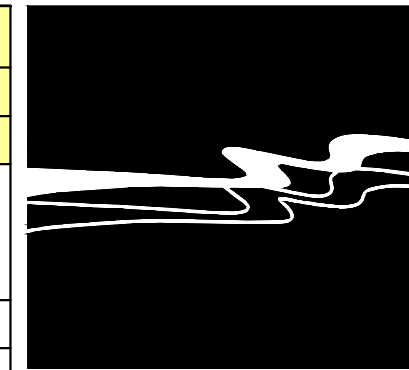
Scale: 3/16" = 1'-0"



PROFILE - EMERGENCY OVERFLOW

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

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1	02/15/19	ISSUED FOR BID	JSW
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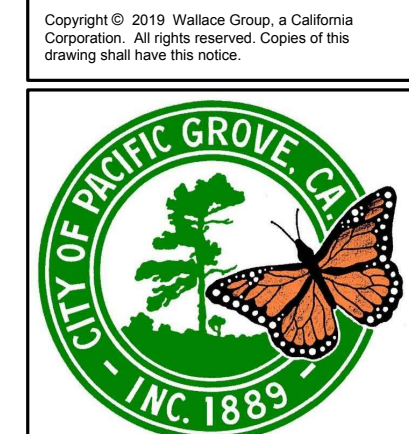
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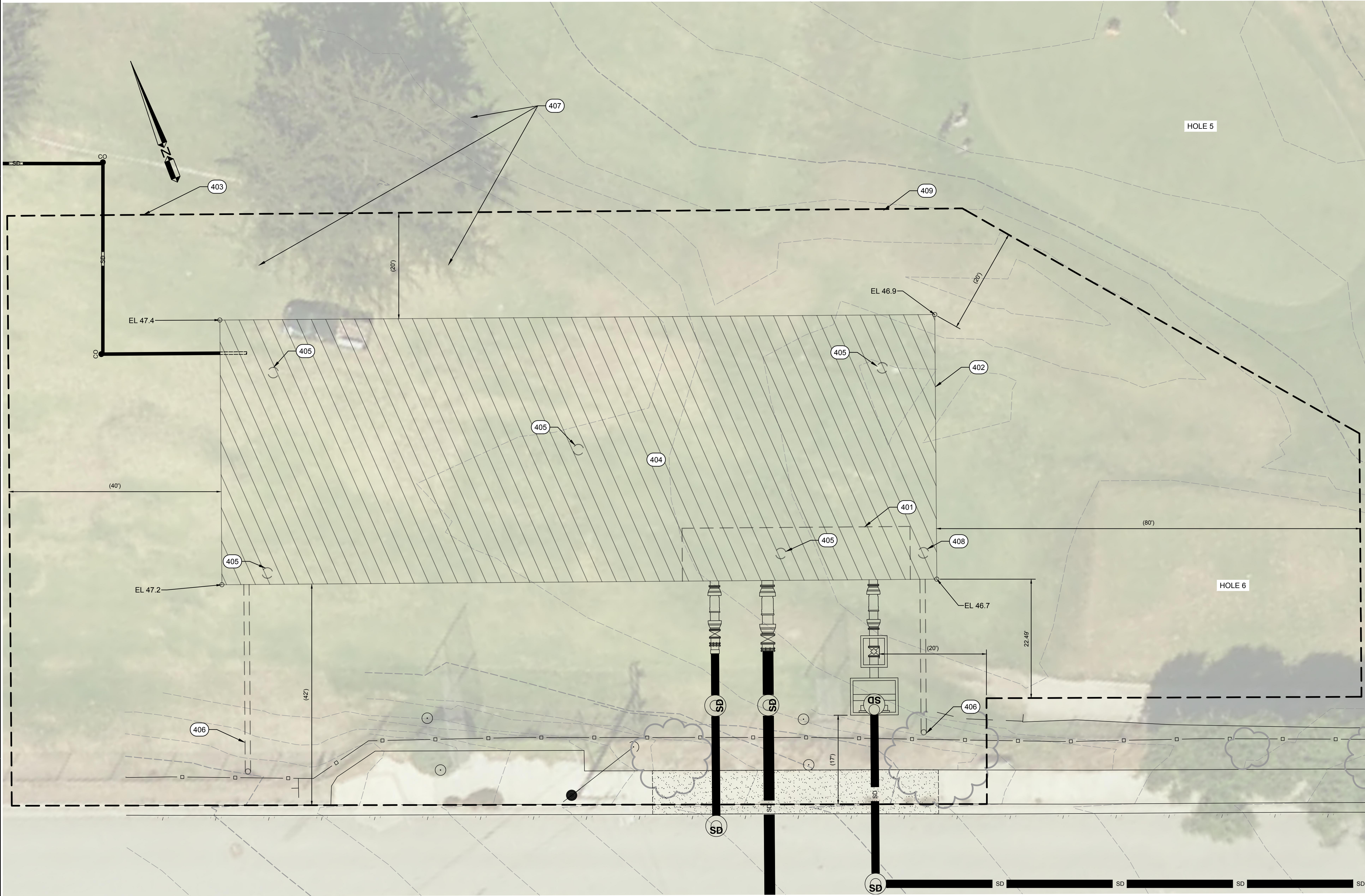
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT STORM DRAIN STA. 63+50 TO STA. 68+00

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

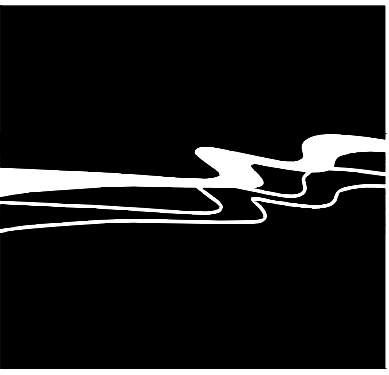
DRAWING NO.

C-6

15 OF 33 SHEETS



REFERENCE NOTES:	
	DESCRIPTION
400	UNDERGROUND RESERVOIR NOTES
401	12" DEEP SUMP. BOTTOM ELEVATION 12" BELOW INVERT OF OUTLET PIPE. APPROXIMATE LIMITS SHOWN.
402	APPROXIMATE TANK FOOTPRINT.
403	LIMITS OF WORK AREA. CONTRACTOR TO REMOVE AND REPLACE ALL GOLF COURSE LANDSCAPING, IRRIGATION FACILITIES, AND DRAINAGE FACILITIES DISTURBED DURING CONSTRUCTION PER SPEC 32 90 00.
404	SLAB FOUNDATION FOR UNDERGROUND RESERVOIR. PLANS BY TANK MANUFACTURER. SLOPE TO DRAIN PER PLAN.
405	48" MAINTENANCE ACCESS MANHOLE WITH LOCKABLE LID, MARKED OR STAMPED "STORM DRAIN", PER DETAIL B, SHEET C-16. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION.
406	12" D.I. AIR VENT. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION. SEE DETAIL O, SHEET C-17. AIR VENT LOCATION ABOVE GRADE, COORDINATE WITH OWNER FOR LOCATION.
407	PROTECT TREES IN PLACE, SEE SECTION 01 35 00 SPECIAL PROJECT PROCEDURES, PARA. 3.8 TREES WITHIN PROJECT LIMITS.
408	STILLING WELL PER DETAIL X, SHEET C-19.
409	CONTRACTOR TO PROVIDE SCREENING FROM HOLE 5.



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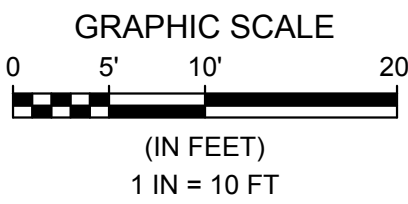
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PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
LOVER'S POINT TANK SITE PLAN

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: ASK
DATE: 02/15/19

DRAWING NO.

C-7

16 OF 33 SHEETS

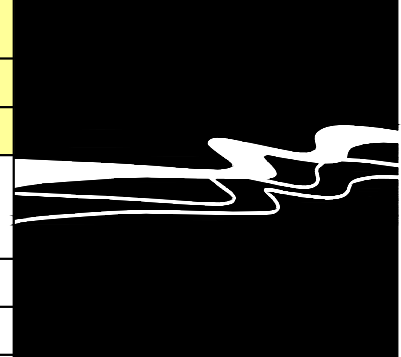


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Rev.	Date	Description of Revisions	By

Line Table		
Line #	Length	Direction
L200	11.09	S58°02'54"W
L201	197.39	S68°47'25"E
L202	56.52	S21°12'35"W
L203	41.87	S68°47'25"E
L204	218.00	S68°47'25"E
L300	413.55	S68°47'25"E
L301	102.80	N21°15'19"E
L302	7.87	N65°28'45"E

REFERENCE NOTES:	
	DESCRIPTION
500	LANDSCAPE NOTES
501	REPLACE EXISTING STRUCTURE WITH 24" x 24" OPEN BOTTOM CONCRETE BOX AND A MINIMUM OF 6" GRAVEL BELOW LOWEST INVERT. RECONNECT ALL EXISTING SD LINES INTO STRUCTURE.
502	6" PVC SDR 35 STORM DRAIN PIPE.
503	FRENCH DRAIN PER DETAIL 1, SHEET C-8.
504	CLEANOUT PER DETAIL 2, SHEET C-8.
505	PLUG EXISTING LINE WITH 2 FEET OF CONCRETE, SLURRY BACKFILL.
506	WYE CONNECTION FITTING.

NOTE: PROTECT IRRIGATION SYSTEM IN PLACE.



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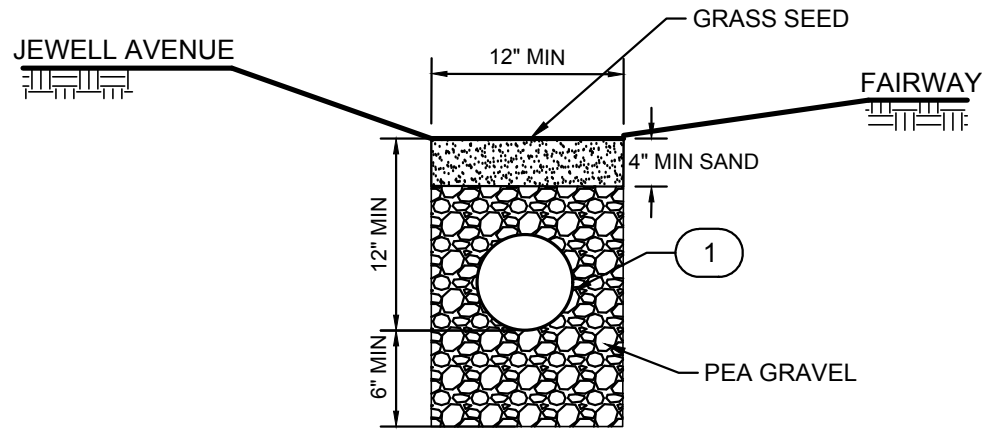
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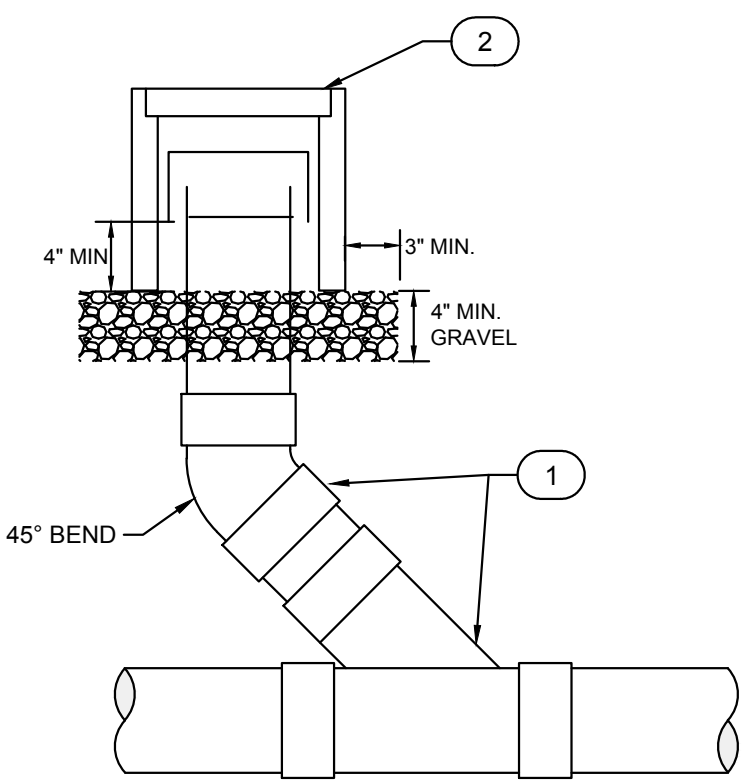
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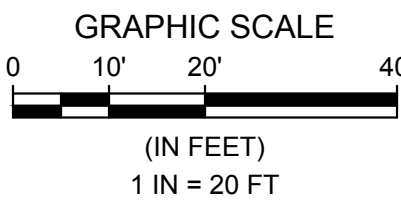
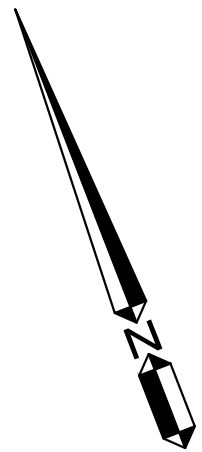
NOTE:
1. 6" SCHEDULE 80 PERFORATED PVC DRAIN PIPE PER SPEC SECTION 33 31 00. PERFORATIONS PLACED DOWN.

1 FRENCH DRAIN DETAIL NTS



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.

2 CLEANOUT DETAIL NTS



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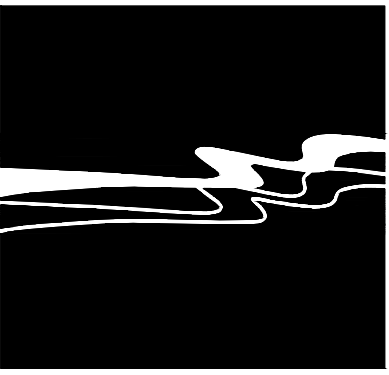
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DESIGNERS:	SGT/KEA
DRAWN BY:	ASK
DATE:	02/15/19
DRAWING NO.	
C-8	
17 OF 33 SHEETS	



Line Table		
Line #	Length	Direction
L204	218.00	S68°47'25"E
L205	36.00	S21°12'45"W
L206	22.13	S69°15'12"E

REFERENCE NOTES:	
	DESCRIPTION
500	LANDSCAPE NOTES
502	6" PVC SDR 35 STORM DRAIN PIPE.
504	CLEANOUT PER DETAIL 2, SHEET C-8.
507	CONNECT TO TOP OF UNDERGROUND STORAGE RESERVOIR.
508	APPROXIMATE LIMITS OF REMOVE AND REPLACE GOLF CART PATH. CART PATH PER DETAIL 1, SHEET C-9. CONTRACTOR TO COORDINATE WITH GOLF COURSE SUPERINTENDENT AND ENGINEER ON LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.
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.
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.

NOTE: PROTECT IRRIGATION SYSTEM IN PLACE.



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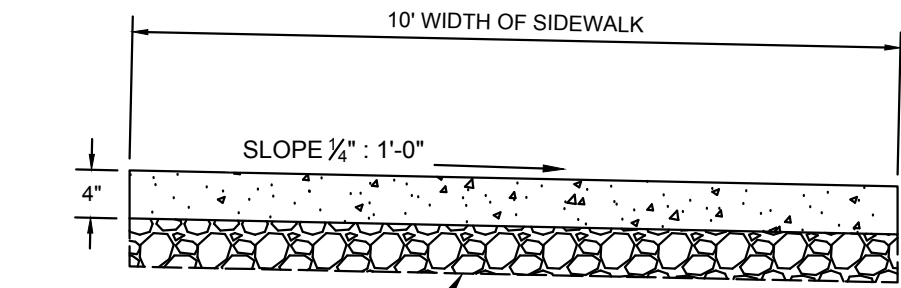
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
HOLE 6 GOLF COURSE IMPROVEMENTS

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: ASK
DATE: 02/15/19

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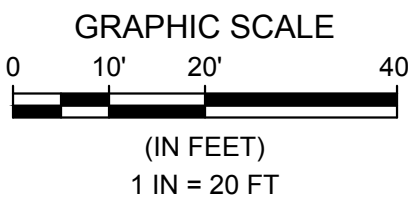
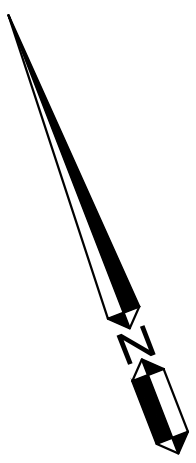
C-9

18 OF 33 SHEETS



1 CART PATH DETAIL

NTS



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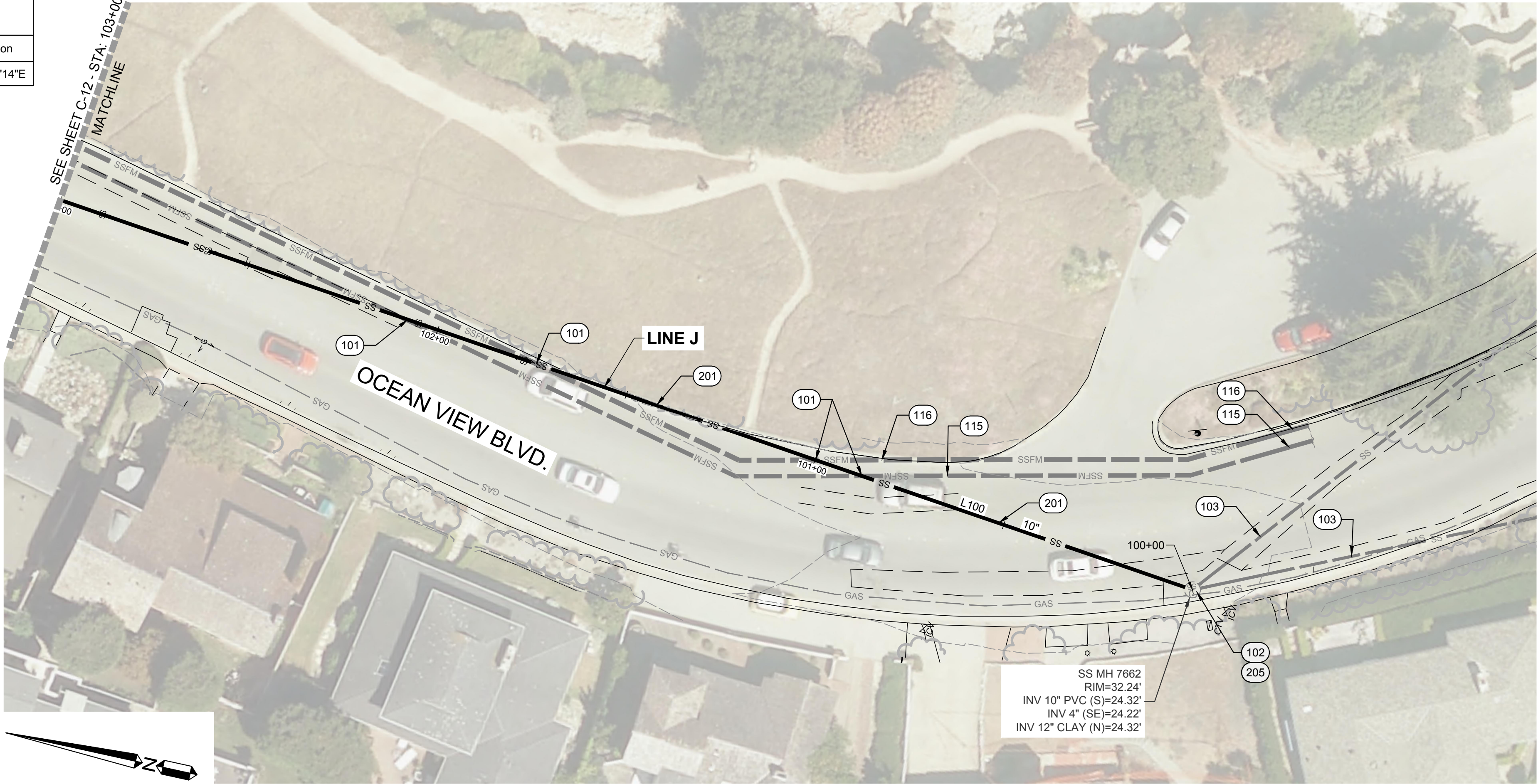
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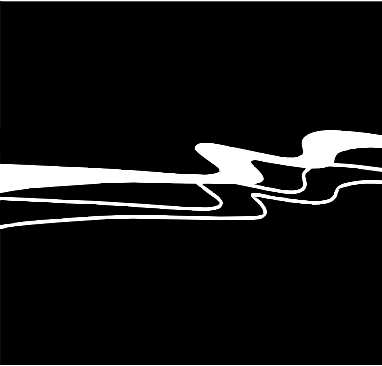
JOB #:	1153-0003-01
DESIGNERS:	SGT/KEA
DRAWN BY:	JSW
DATE:	02/15/19

DRAWING NO.
C-10
9 OF 33 SHEET

Line Table		
Line #	Length	Direction
L100	481.31	N6°38'14"E



REFERENCE NOTES:	
	DESCRIPTION
100	GENERAL NOTES
101	EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POT HOLE 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.
115	EXISTING 12" FORCE MAIN TO REMAIN.
116	EXISTING 14" FORCE MAIN TO REMAIN.
200	SANITARY SEWER NOTES
201	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.
205	RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.



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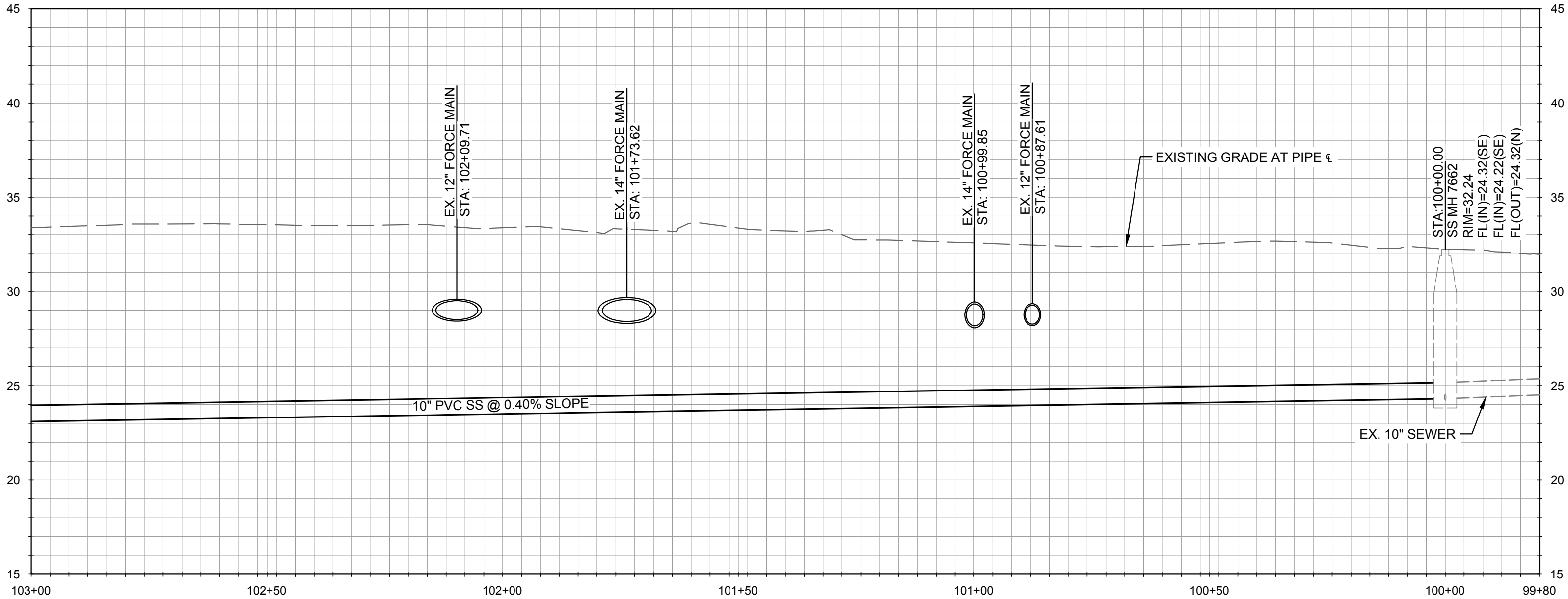
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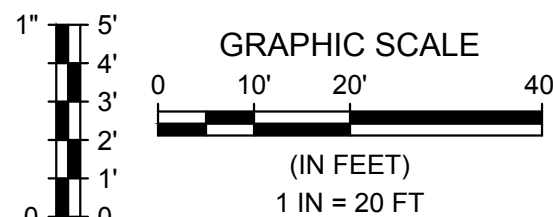


CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
OCEAN VIEW SEWER STA. 100+00 TO STA. 103+00



PROFILE - LINE J

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



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1	02/15/19	ISSUED FOR BID	JSW
2	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW

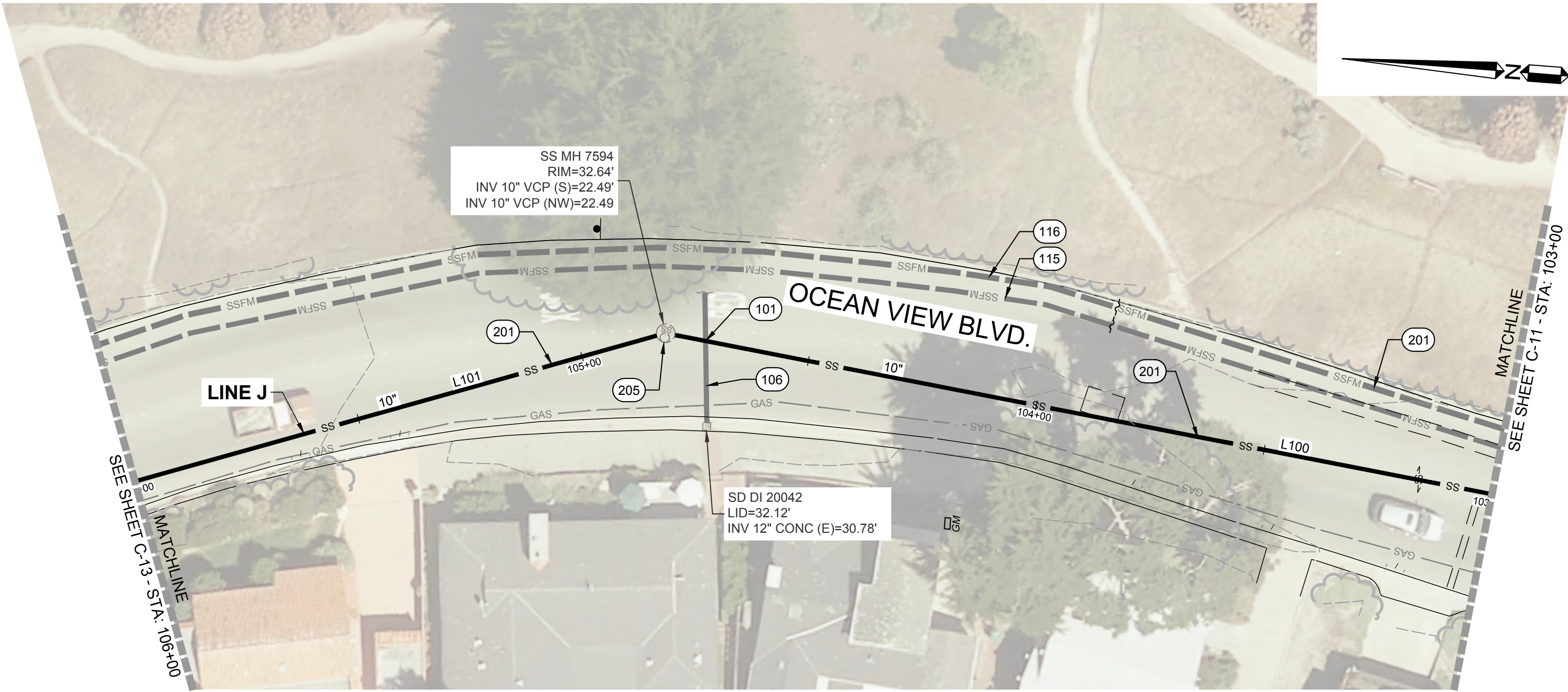
JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

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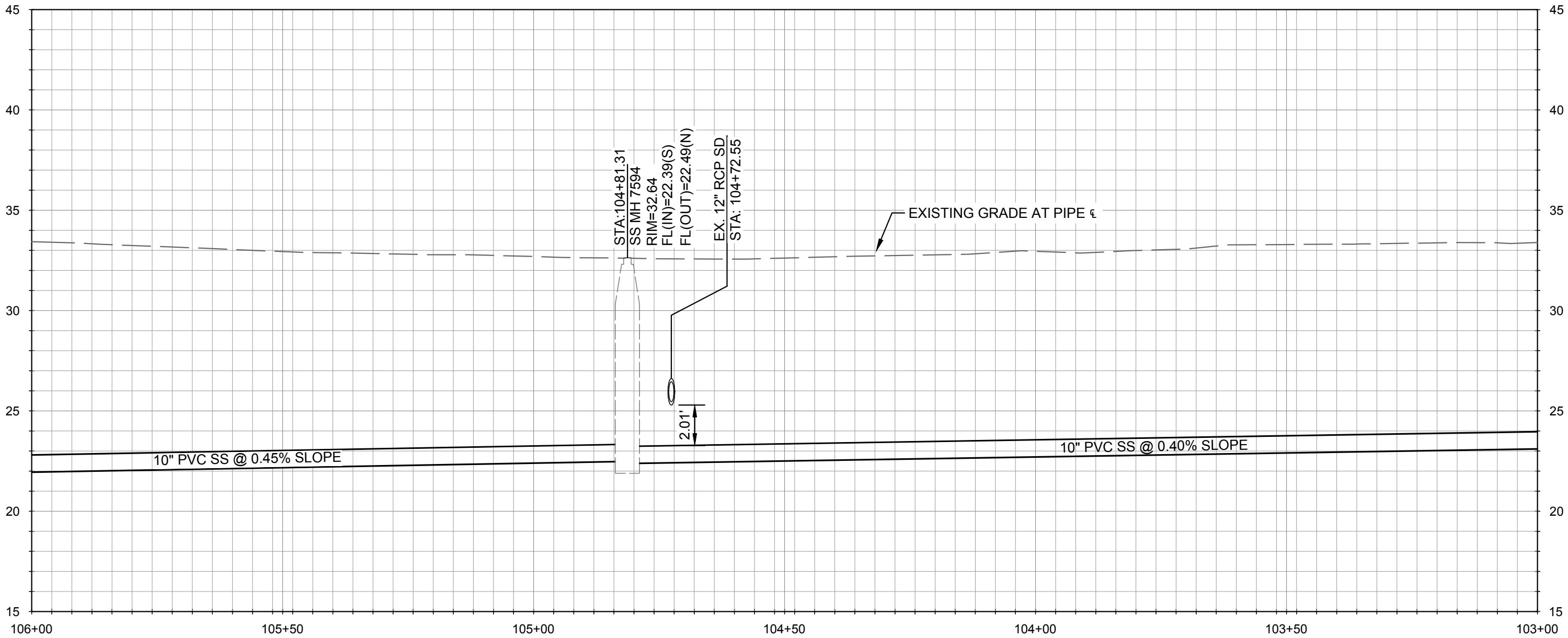
C-11

20 OF 33 SHEETS

Line Table		
Line #	Length	Direction
L100	481.31	N6°38'14"E
L101	151.18	N19°57'00"W

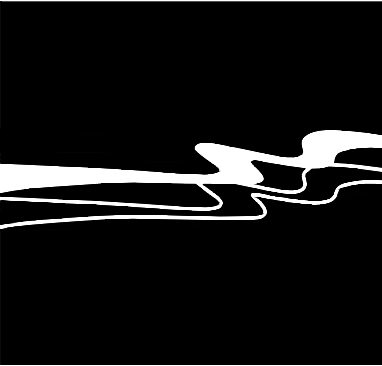


PLAN - OCEAN VIEW BLVD.
SCALE: 1" = 20'



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

REFERENCE NOTES:	
	DESCRIPTION
100	GENERAL NOTES
101	EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POT HOLE AND VERIFY LOCATION OF ALL UTILITIES, INCLUDING THOSE NOT SHOWN ON THE PLANS, PRIOR TO CONSTRUCTION.
115	EXISTING 12" FORCE MAIN TO REMAIN.
116	EXISTING 14" FORCE MAIN TO REMAIN.
200	SANITARY SEWER NOTES
201	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 EXISTING SEWER LATERALS.
205	RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.



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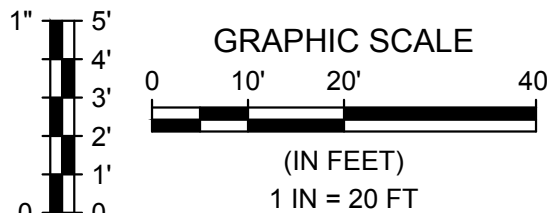
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
OCEAN VIEW SEWER STA. 103+00 TO STA. 106+00

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

DRAWING NO.

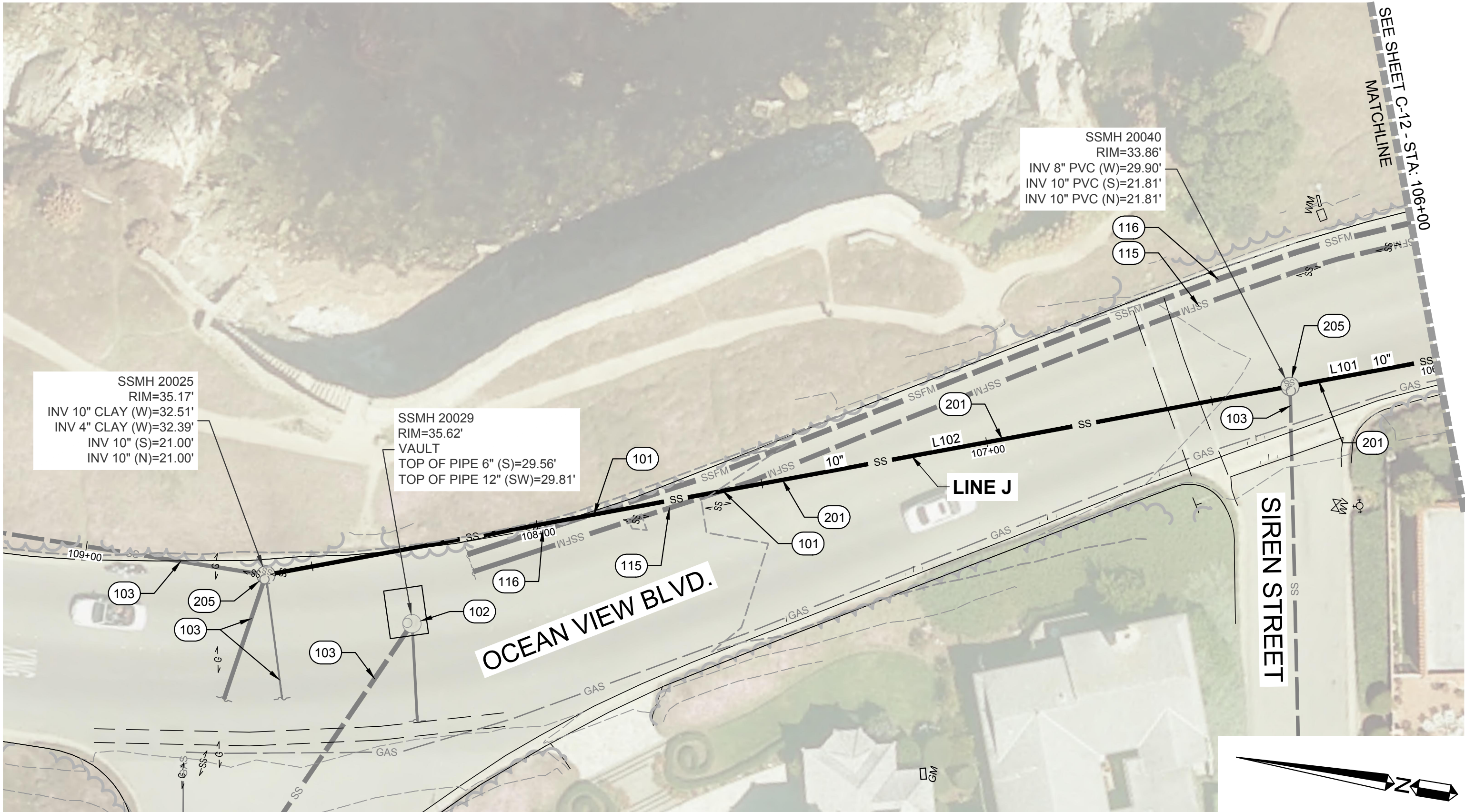
C-12

21 OF 33 SHEETS

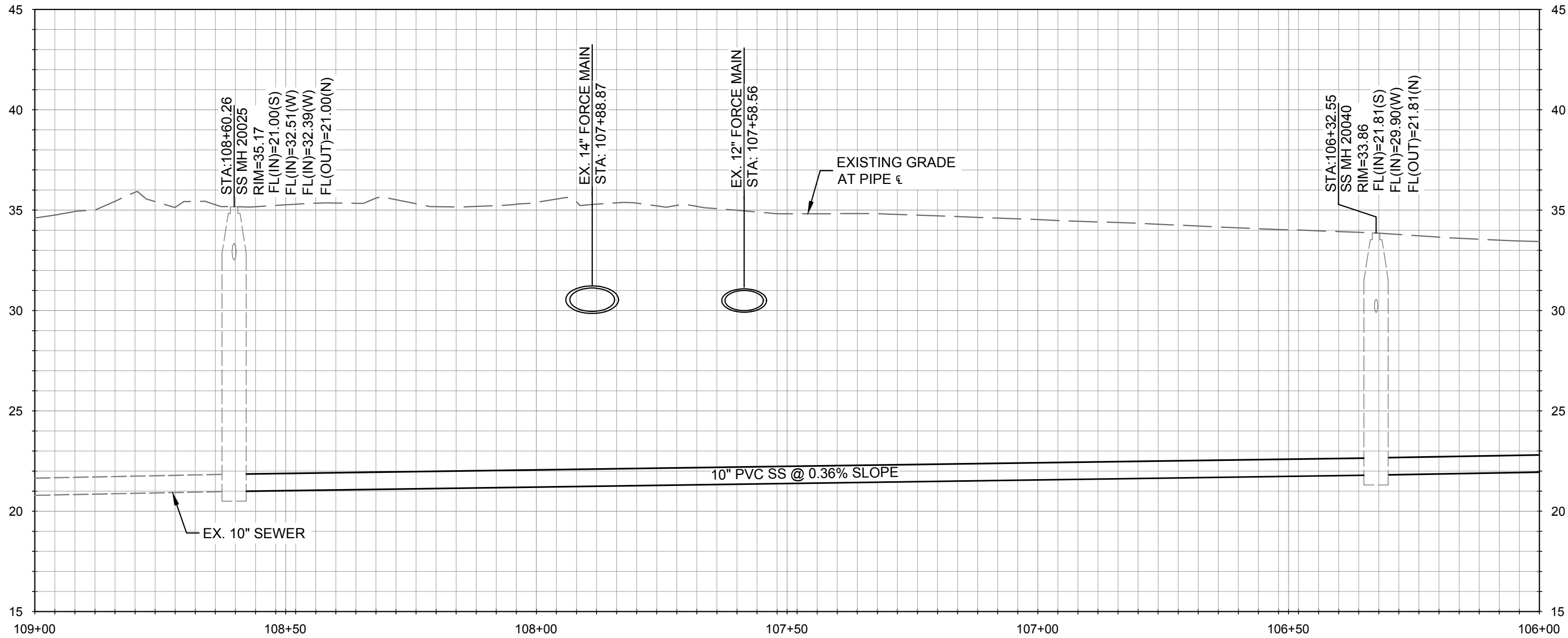


Rev.	02/15/19	ISSUED FOR BID	JSW
	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
Rev.	Date	Description of Revisions	By

Line Table		
Line #	Length	Direction
L101	151.18	N19°57'00"W
L102	227.71	N19°56'58"W

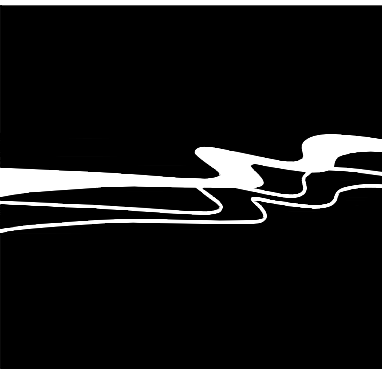


PLAN - OCEAN VIEW BLVD.
SCALE: 1" = 20'



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

REFERENCE NOTES:	
	DESCRIPTION
100	GENERAL NOTES
101	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.
115	EXISTING 12" FORCE MAIN TO REMAIN.
116	EXISTING 14" FORCE MAIN TO REMAIN.
117	REMOVE AND REPLACE EXISTING LANDSCAPING AS NECESSARY TO ACCOMMODATE CONSTRUCTION.
200	SANITARY SEWER NOTES
201	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 EXISTING SEWER LATERALS.
205	RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.



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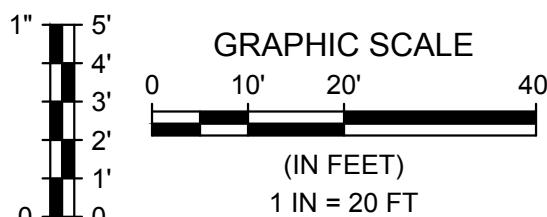
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
OCEAN VIEW SEWER STA. 106+00 TO STA. 109+00

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: JSW
DATE: 02/15/19

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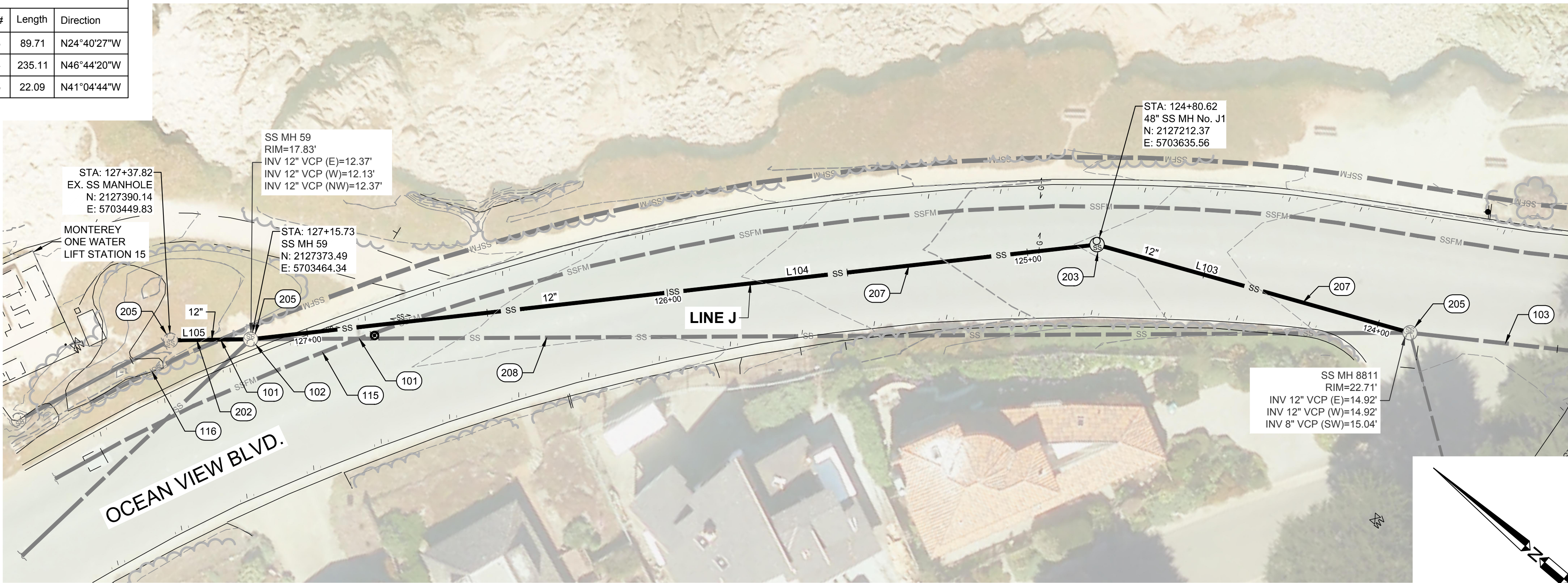
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22 OF 33 SHEETS



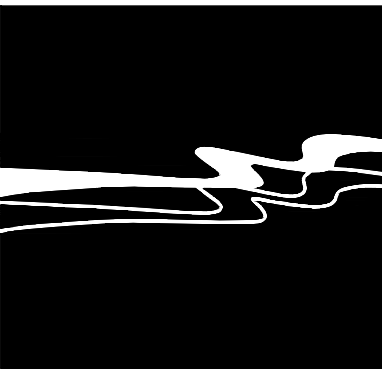
Rev.	Date	Description of Revisions	By
1	02/15/19	ISSUED FOR BID	JSW
2	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW

Line Table		
Line #	Length	Direction
L103	89.71	N24°40'27"W
L104	235.11	N46°44'20"W
L105	22.09	N41°04'44"W



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

REFERENCE NOTES:	
	DESCRIPTION
100	GENERAL NOTES
101	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.
115	EXISTING 12" FORCE MAIN TO REMAIN.
116	EXISTING 14" FORCE MAIN TO REMAIN.
200	SANITARY SEWER NOTES
202	REPLACE EXISTING SEWER PIPE WITH 12" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. MATCH EXISTING INVERTS OR NEW INVERTS SHOWN ON PROFILES. RECONNECT ALL EXISTING SEWER LATERALS.
203	SEWER MANHOLE PER DETAIL E, SHEET C-16.
205	RE-CHANNELIZE EXISTING SEWER MH BASE TO ACCOMMODATE NEW SEWER PER DETAILS L-N, SHEET C-17 OR DETAILS Y-DD, SHEET C-19.
207	NEW 12" SDR 35 PVC SEWER PIPE. TRENCH PER DETAIL A OR DETAIL C, SHEET C-16. RECONNECT ALL EXISTING SEWER LATERALS.
208	ABANDON EXISTING 12" SEWER IN PLACE. SEE SECTION 02 42 00, REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS, PARA 3.5H.



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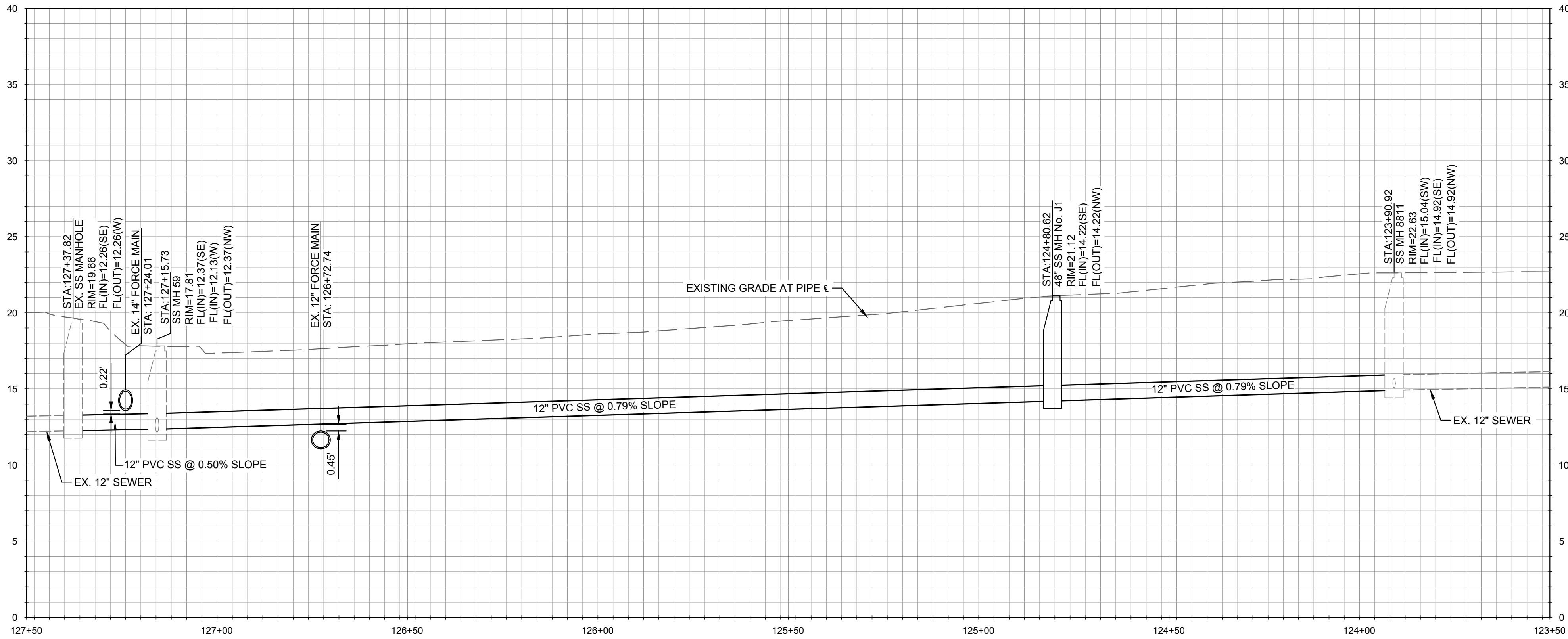
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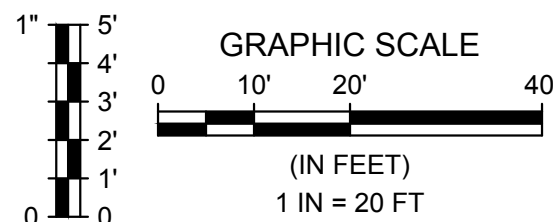
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CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
OCEAN VIEW SEWER STA. 123+50 TO STA. 127+50



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



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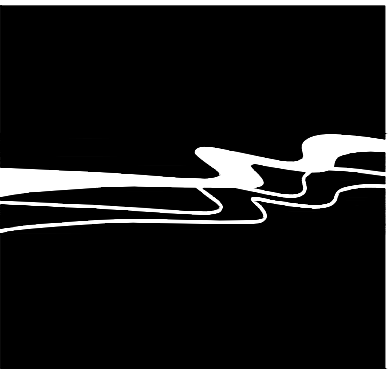
DRAWING NO.

C-14

23 OF 33 SHEETS



REFERENCE NOTES:	
	DESCRIPTION
400	UNDERGROUND RESERVOIR NOTES
401	12" DEEP SUMP. BOTTOM ELEVATION 12" BELOW INVERT OF OUTLET PIPE. APPROXIMATE LIMITS SHOWN.
402	APPROXIMATE TANK FOOTPRINT.
403	LIMITS OF WORK AREA. CONTRACTOR TO REMOVE AND REPLACE ALL GOLF COURSE LANDSCAPING, IRRIGATION FACILITIES, AND DRAINAGE FACILITIES DISTURBED DURING CONSTRUCTION PER SPEC 32 90 00.
404	SLAB FOUNDATION FOR UNDERGROUND RESERVOIR. PLANS BY TANK MANUFACTURER. SLOPE TO DRAIN PER PLAN.
405	48" MAINTENANCE ACCESS MANHOLE WITH LOCKABLE LID, MARKED OR STAMPED "STORM DRAIN", PER DETAIL B, SHEET C-16. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION.
406	12" D.I. AIR VENT. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION. SEE DETAIL O, SHEET C-17. AIR VENT LOCATION ABOVE GRADE, COORDINATE WITH OWNER FOR LOCATION.
407	PROTECT TREES IN PLACE, SEE SECTION 01 35 00 SPECIAL PROJECT PROCEDURES, PARA. 3.8 TREES WITHIN PROJECT LIMITS.
408	STILLING WELL PER DETAIL X, SHEET C-19.
410	CONTRACTOR TO PROVIDE SCREENING FROM TEE BOX.



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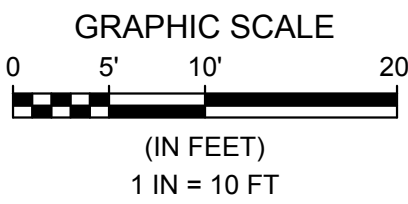
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
SEA PALM TANK SITE PLAN

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: ASK
DATE: 02/15/19

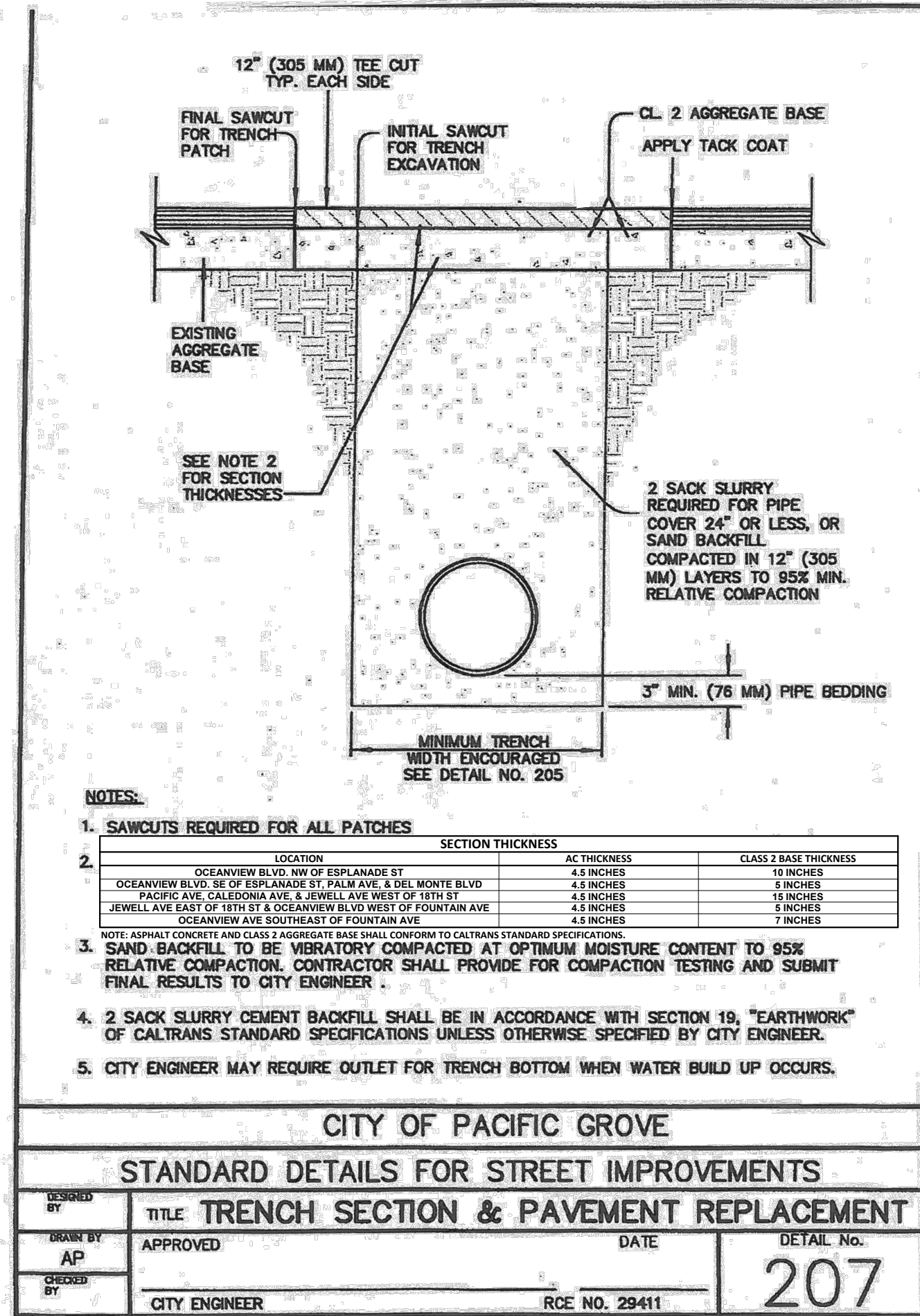
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C-15

24 OF 33 SHEETS

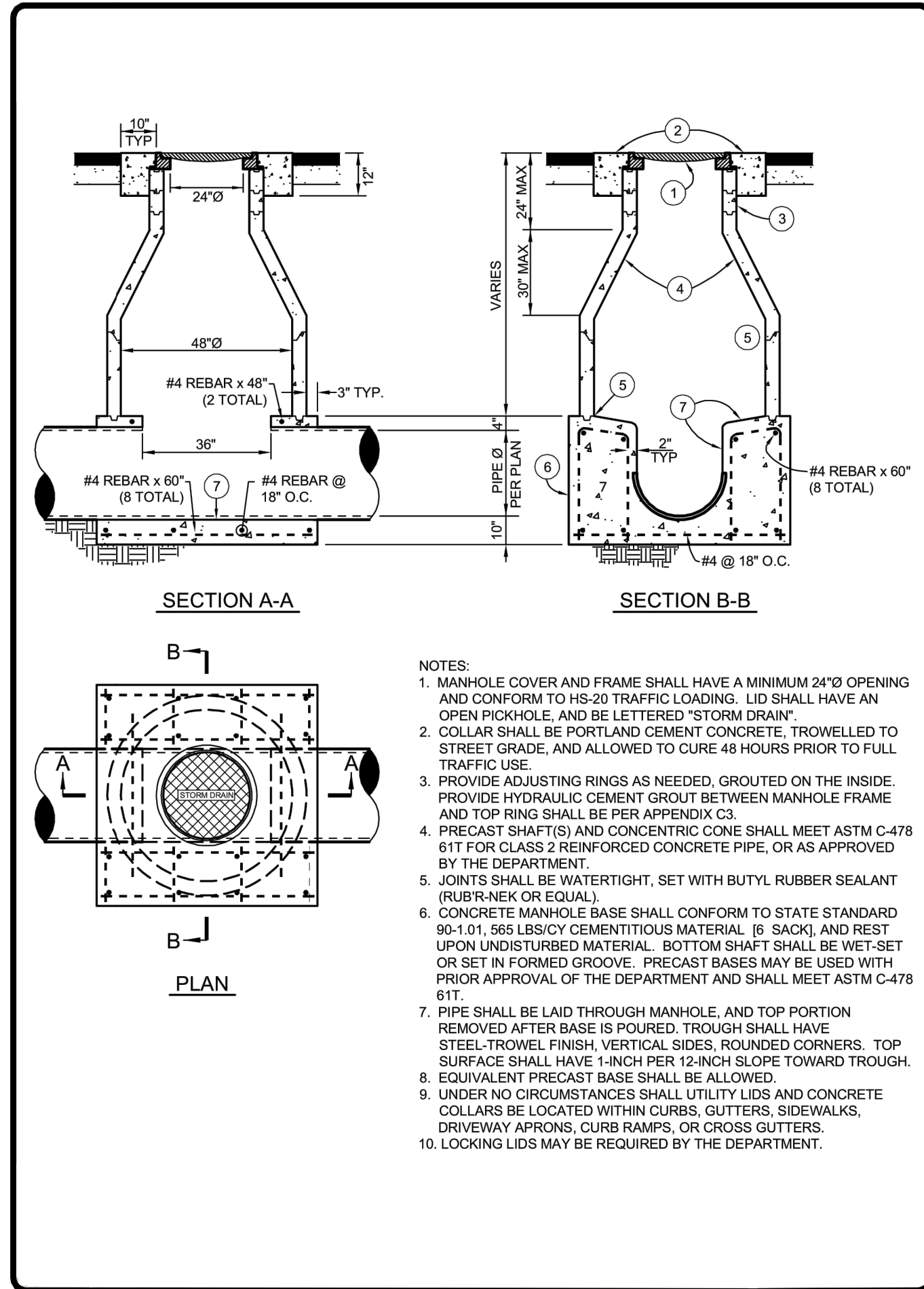


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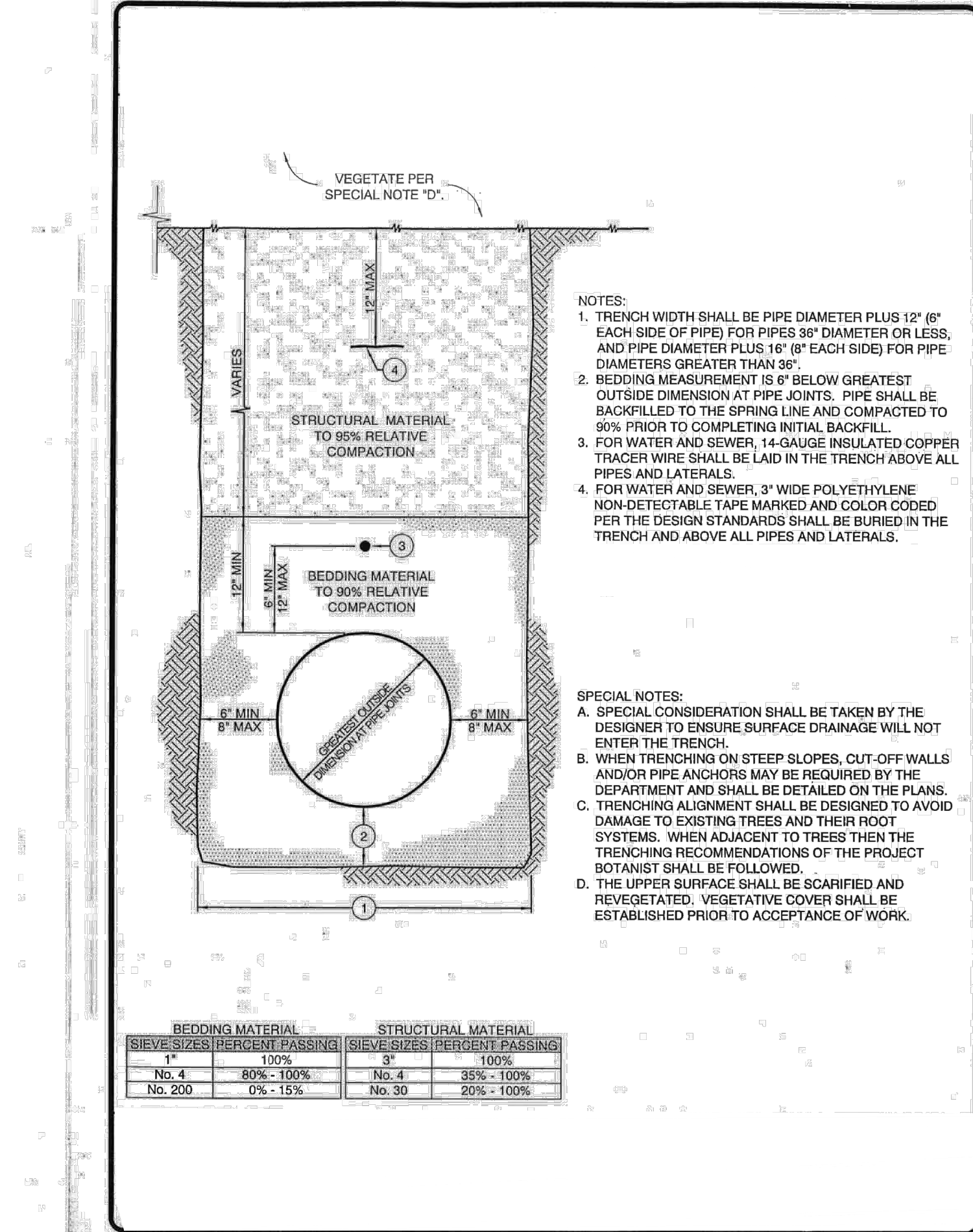
A TRENCH

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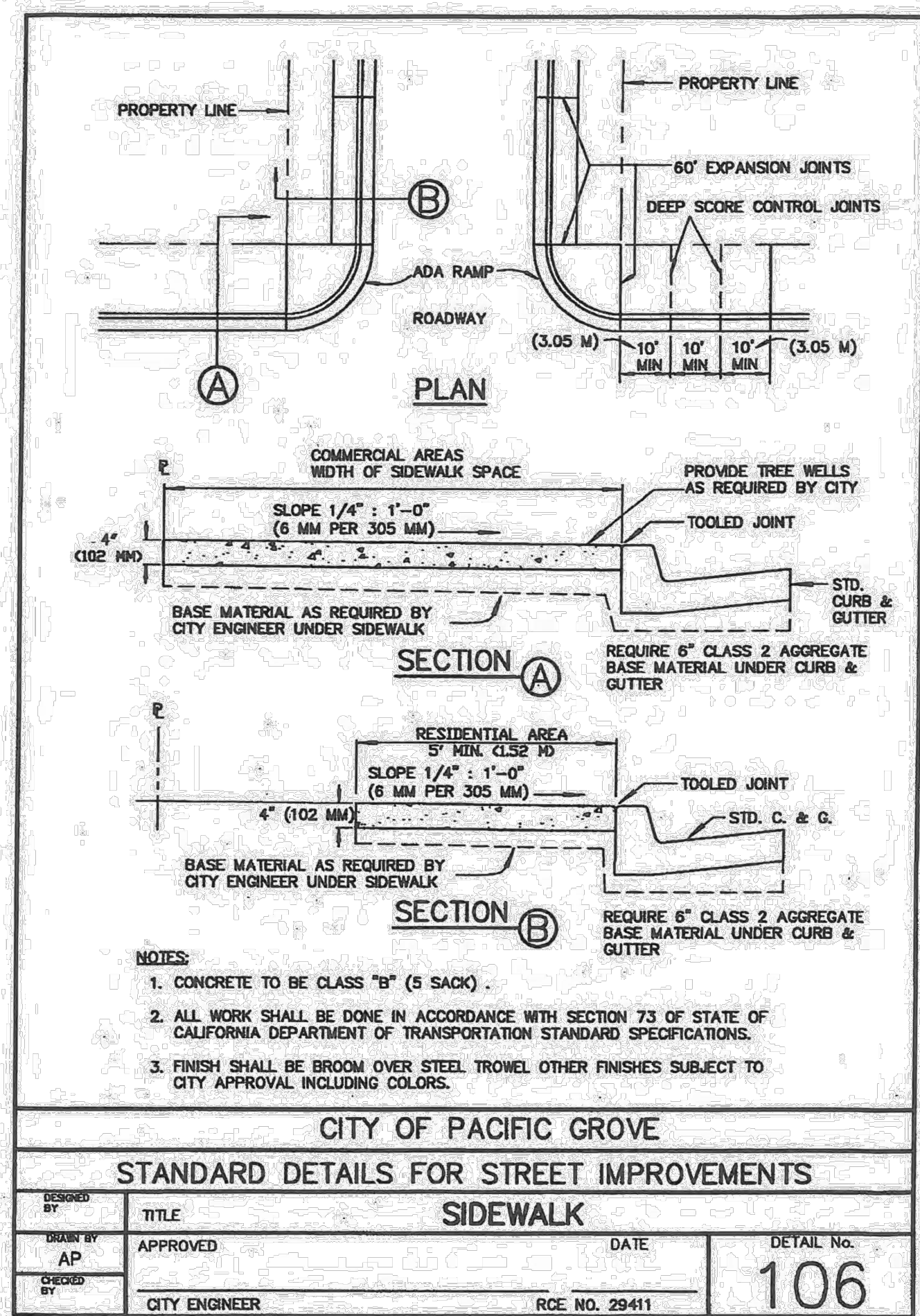
B STORM DRAIN MANHOLE

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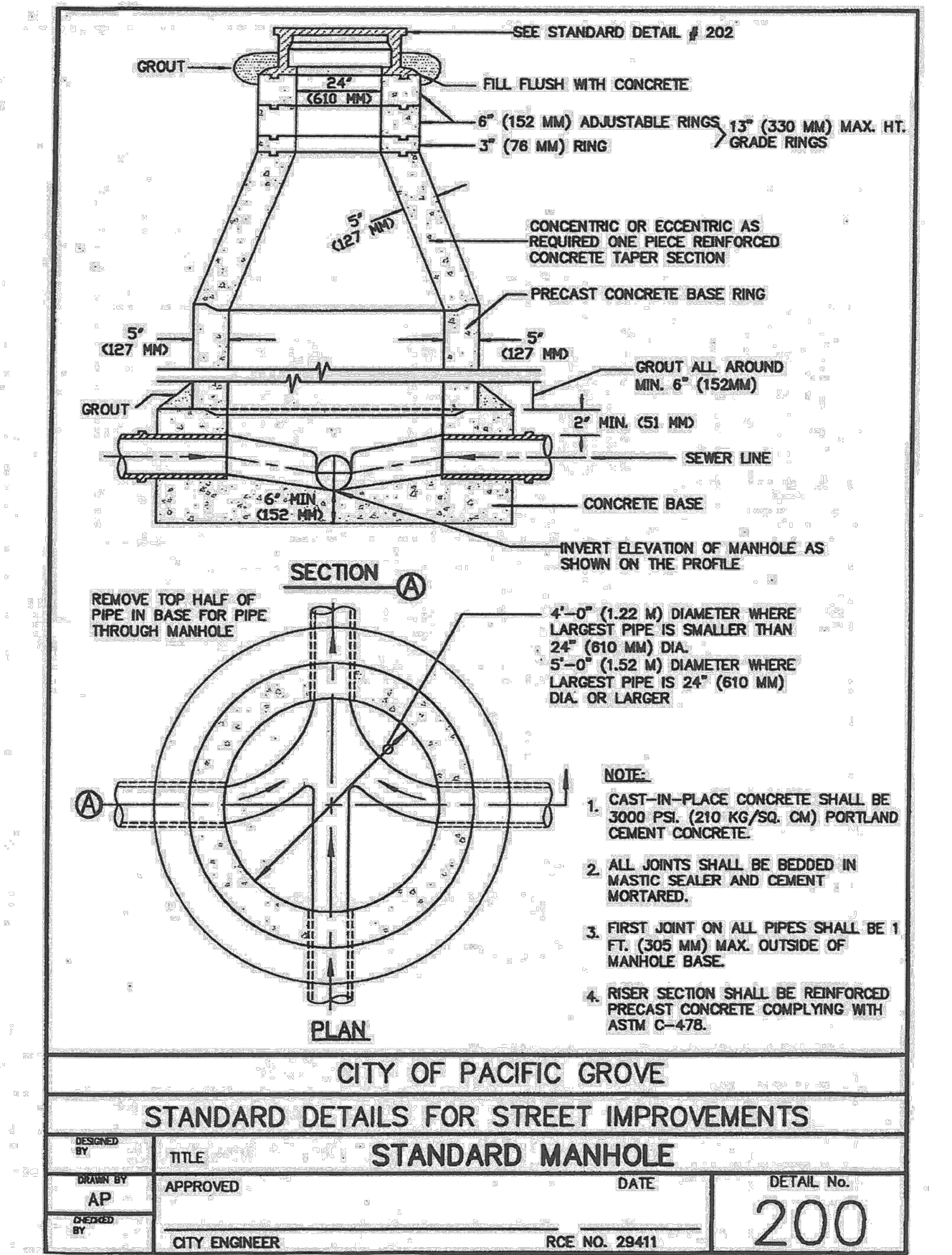
C TRENCH FOR NON-PAVED AREA

Scale: NTS



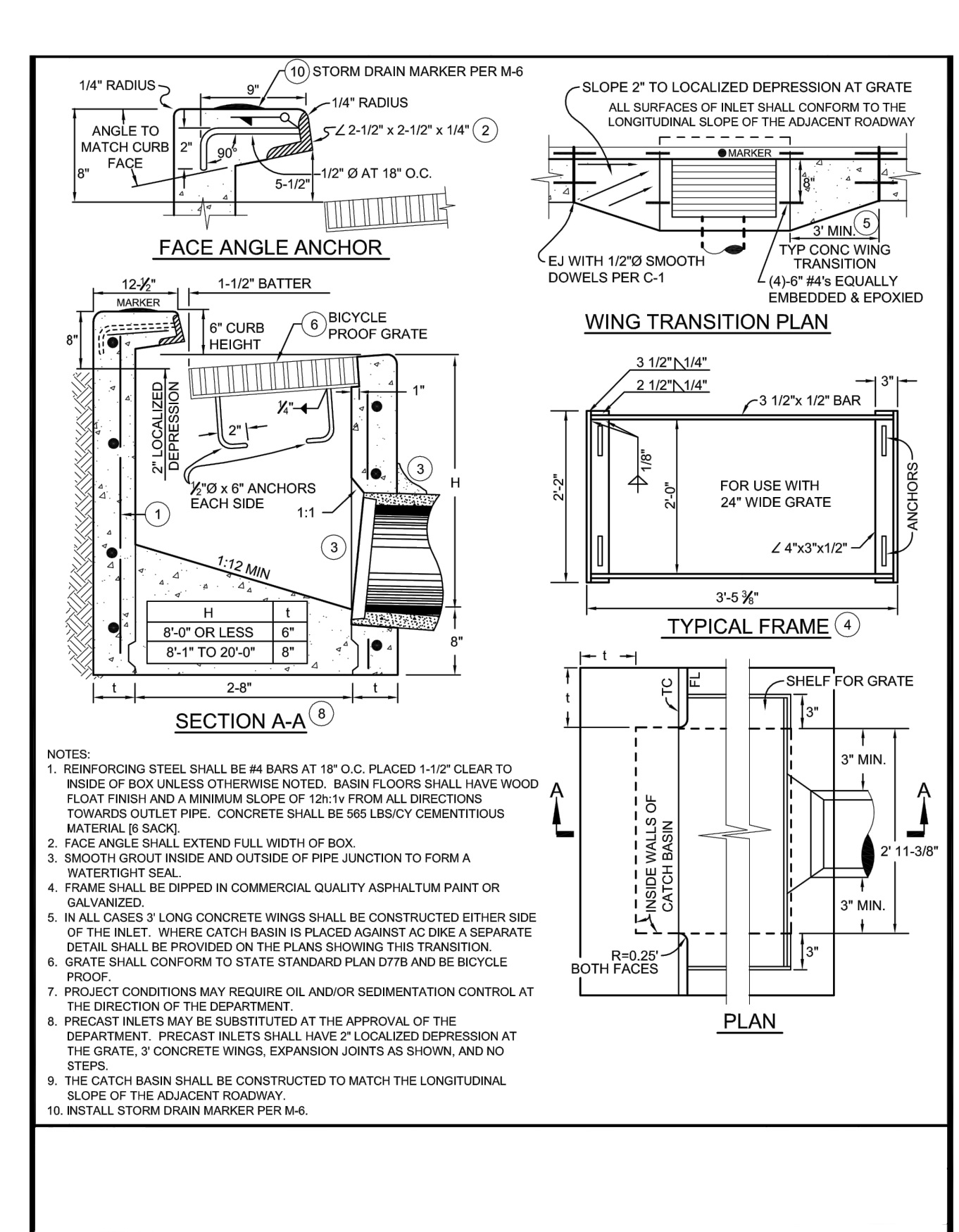
D SIDEWALK

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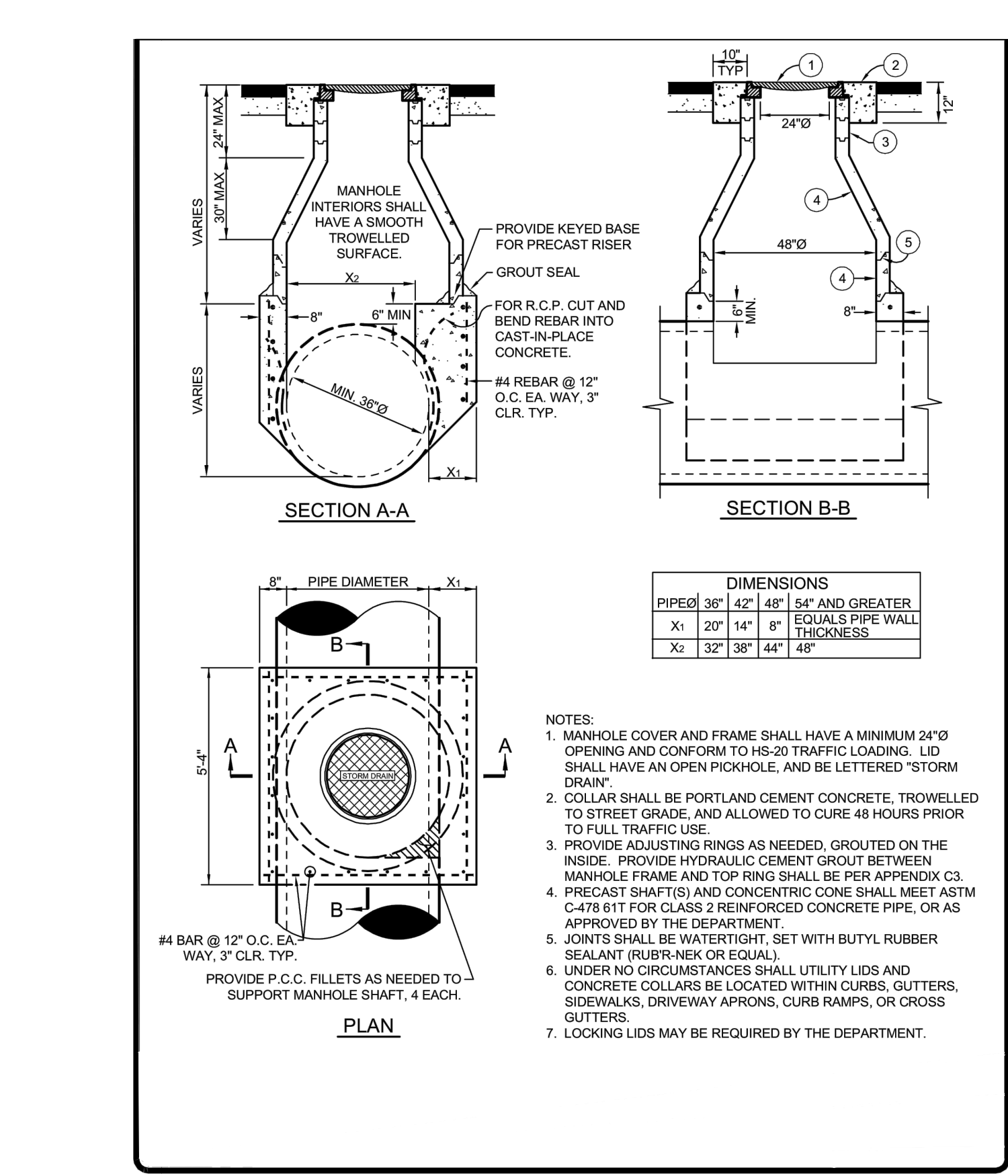
E SEWER MANHOLE

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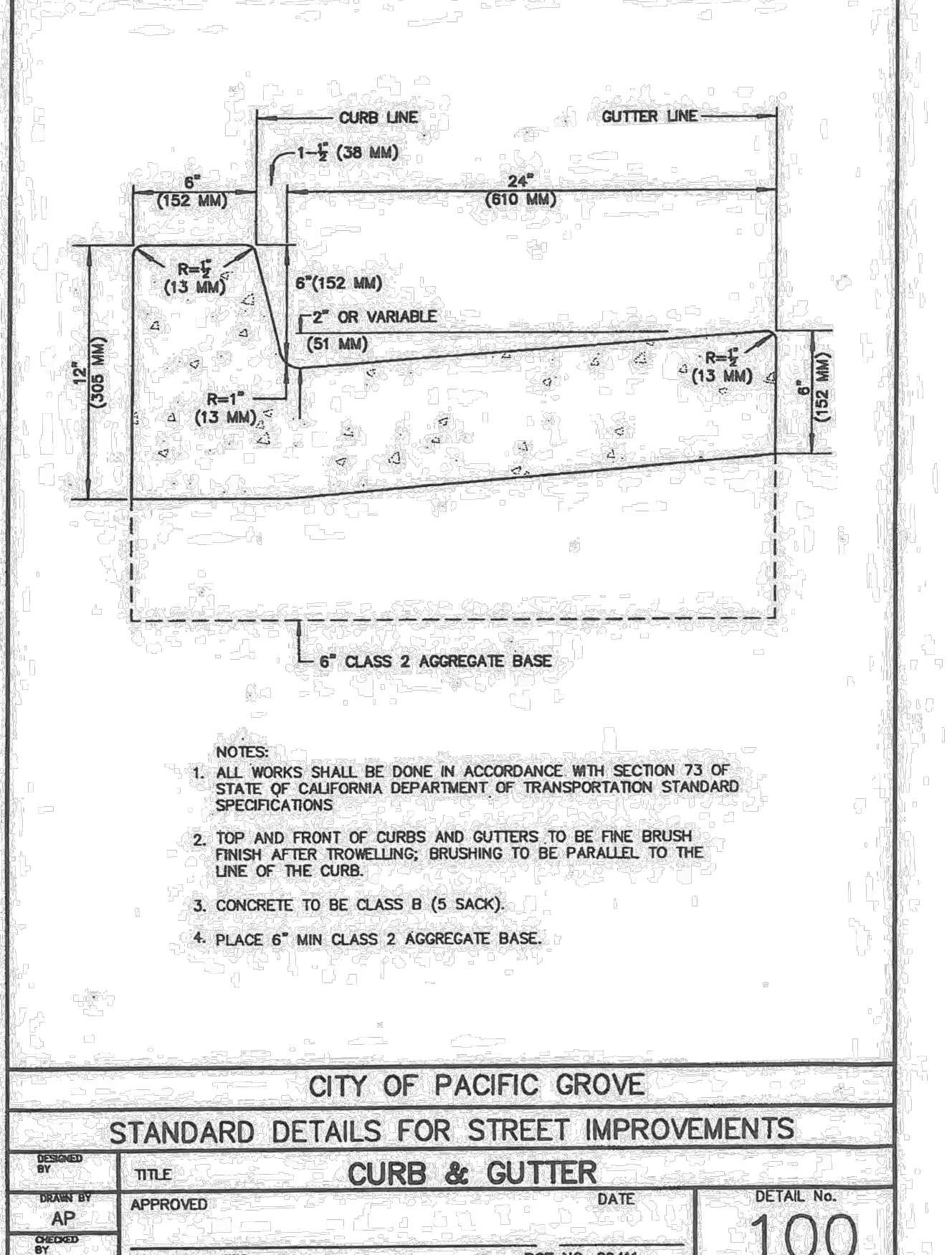
F CATCH BASIN

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G STORM DRAIN MANHOLES FOR PIPES >36"

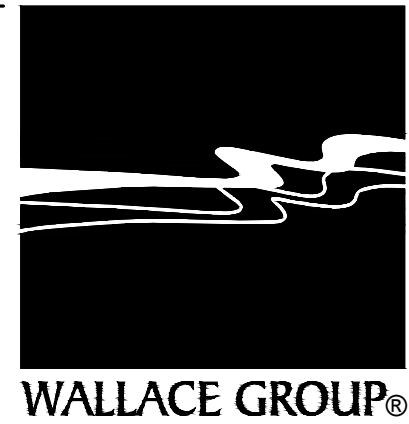
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H CURB AND GUTTER

Scale: NTS

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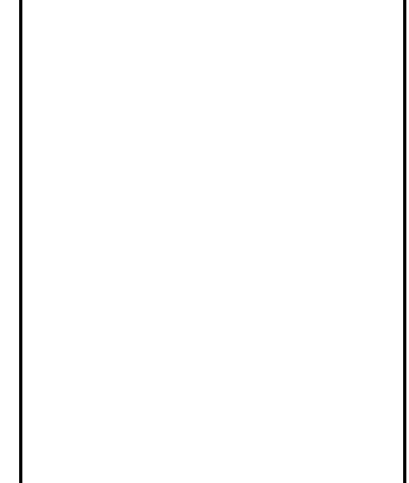
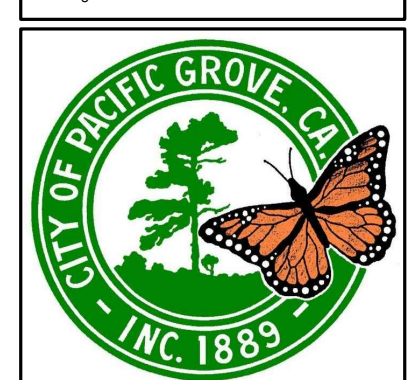
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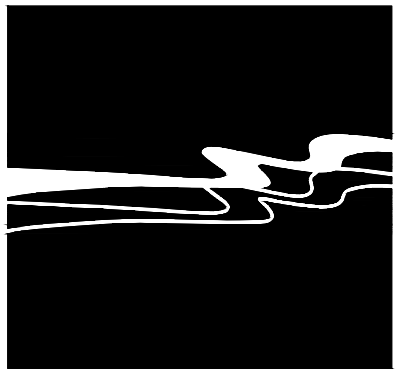
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PACIFIC GROVE - MONTEREY ASSB
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
DETAILS SHEET

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: ASK
DATE: 02/15/19

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C-16
25 OF 33 SHEETS



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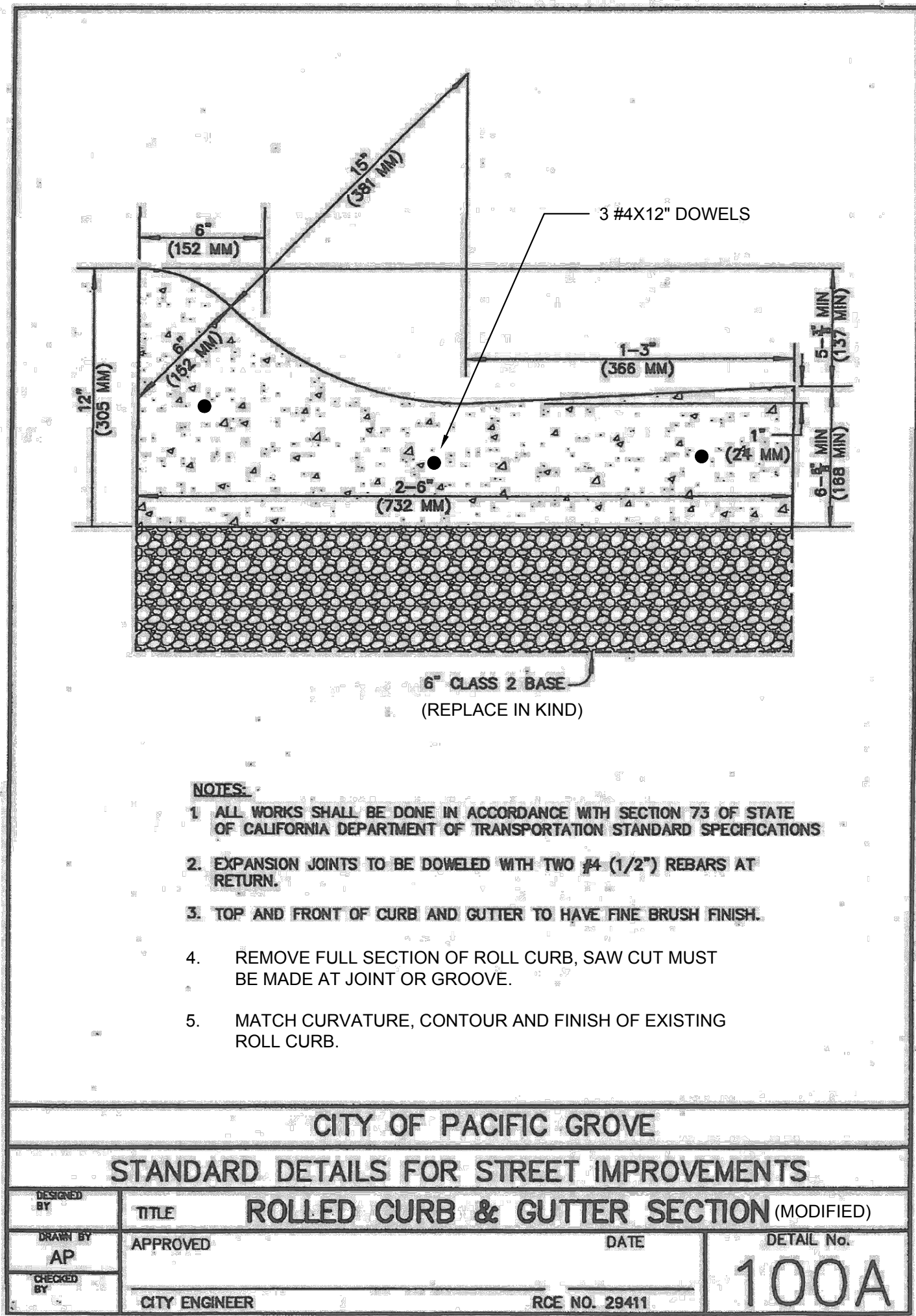


CITY OF PACIFIC GROVE
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WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
DETAILS SHEET

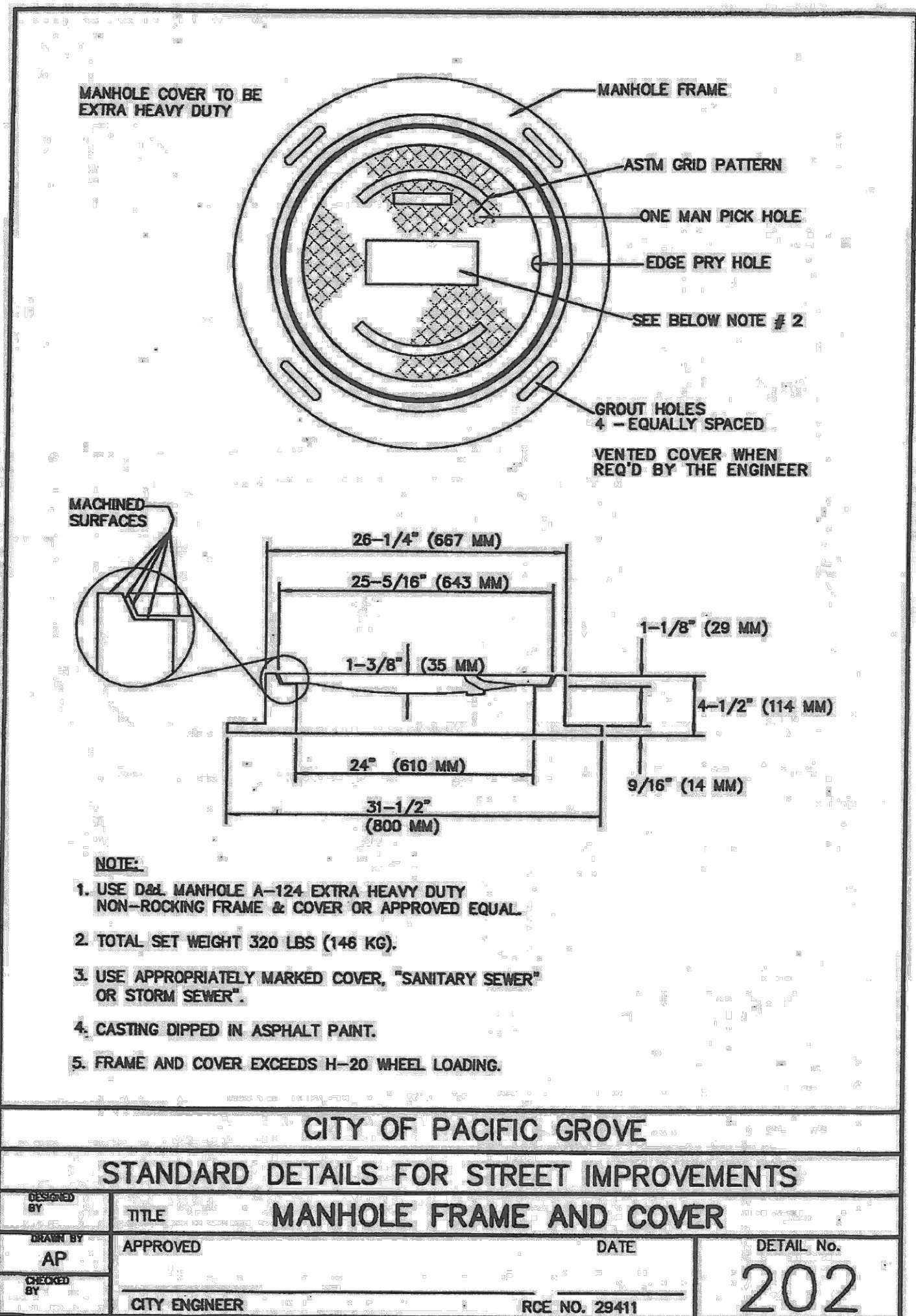
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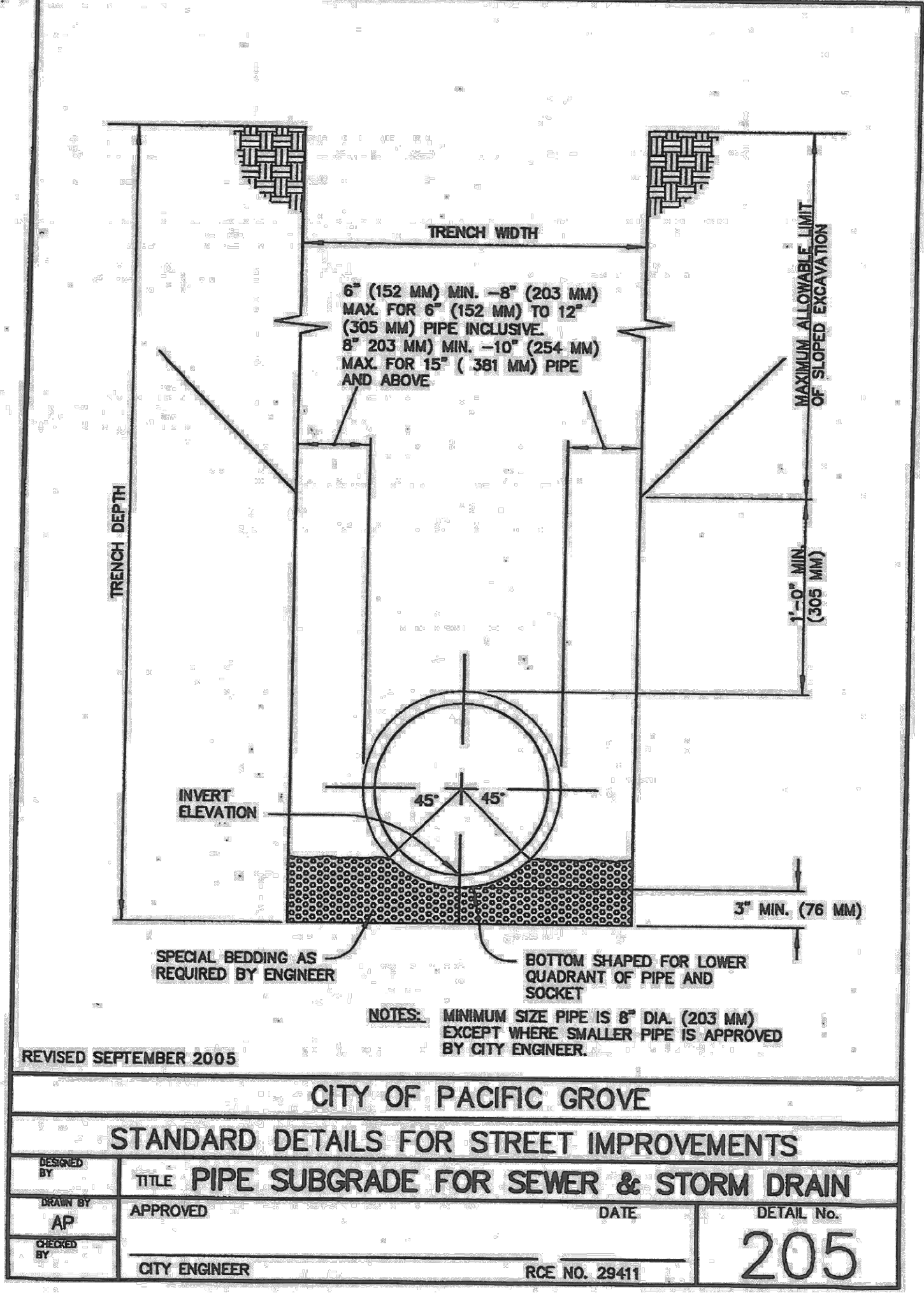
C-17
26 OF 33 SHEETS



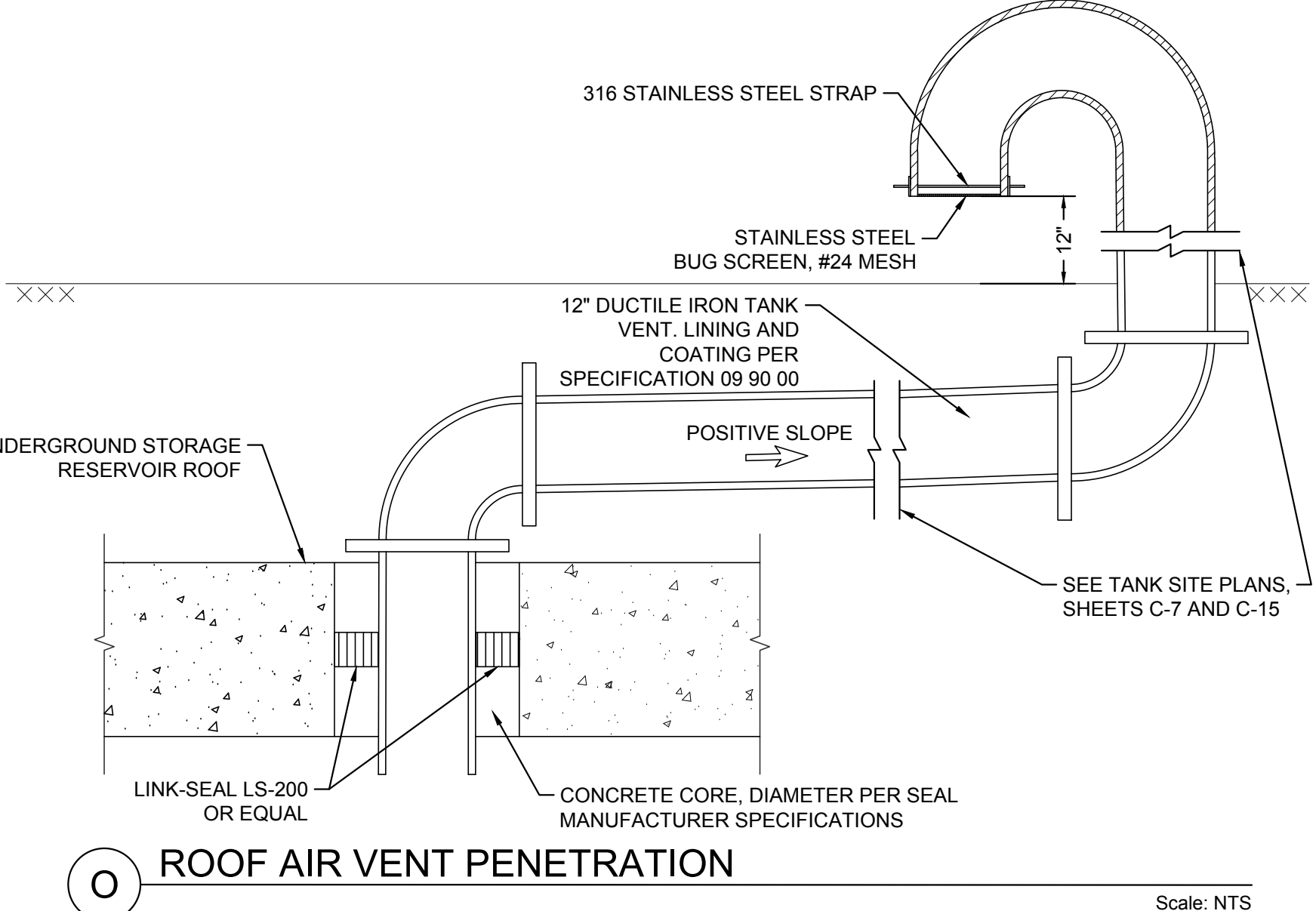
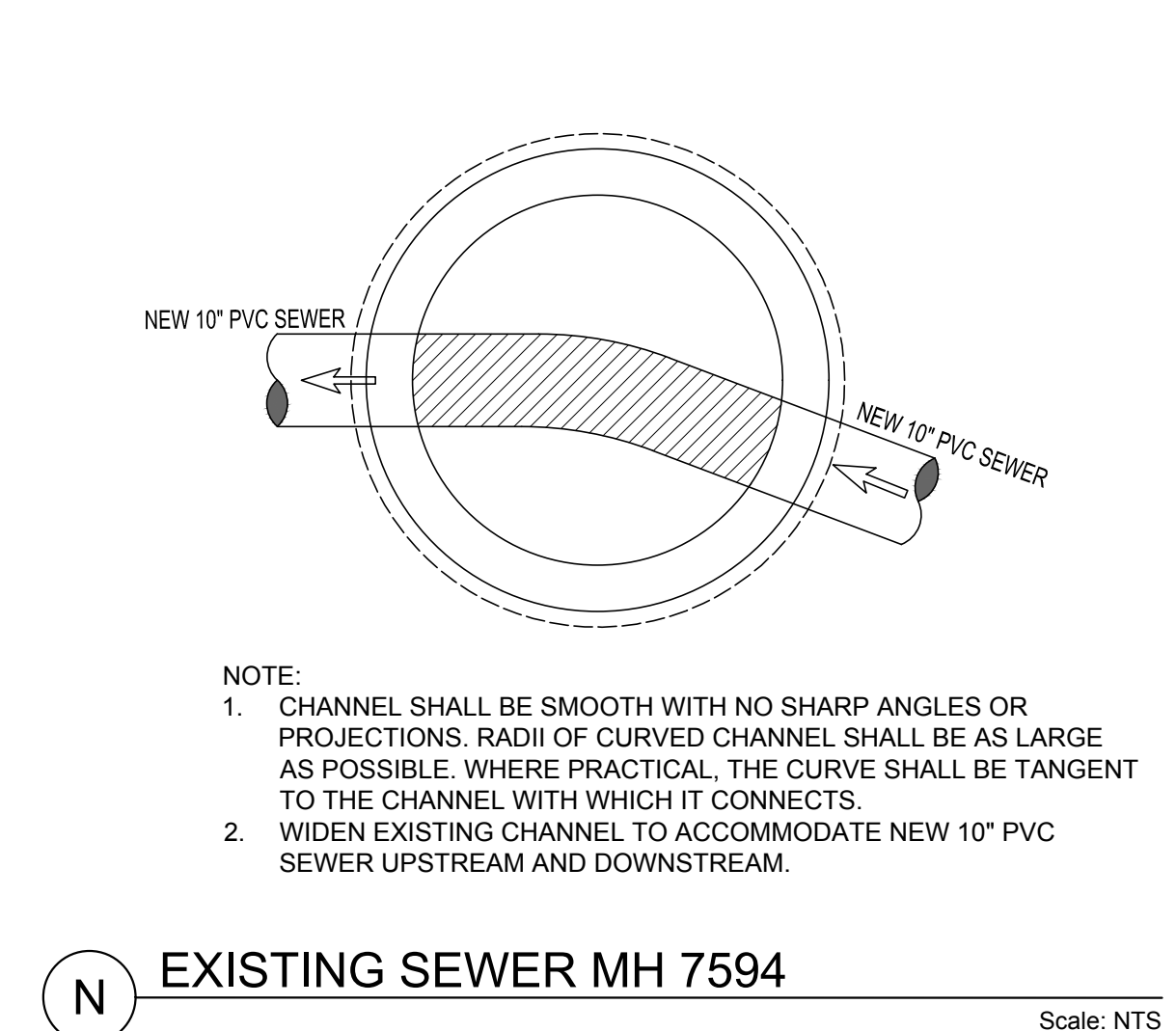
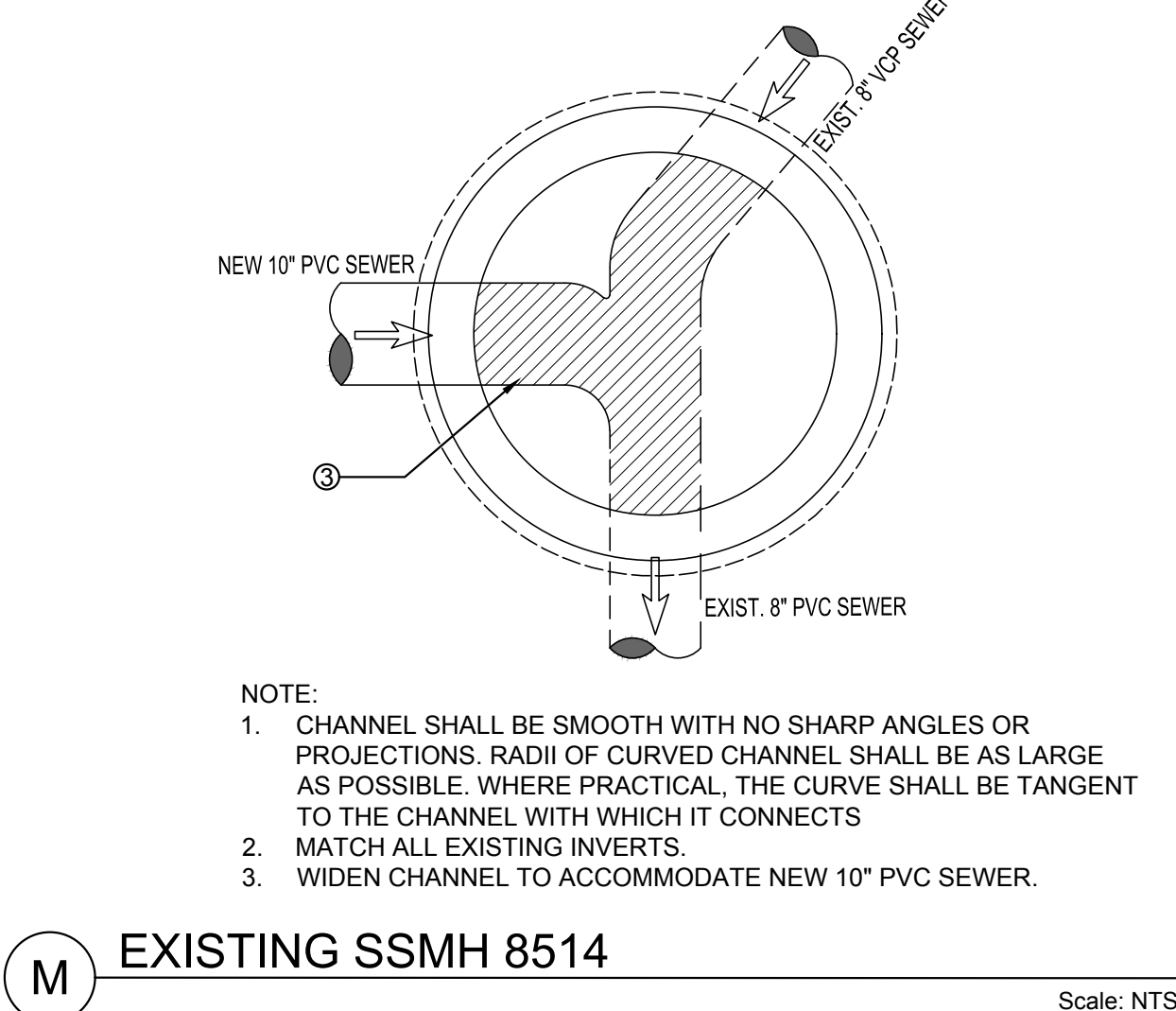
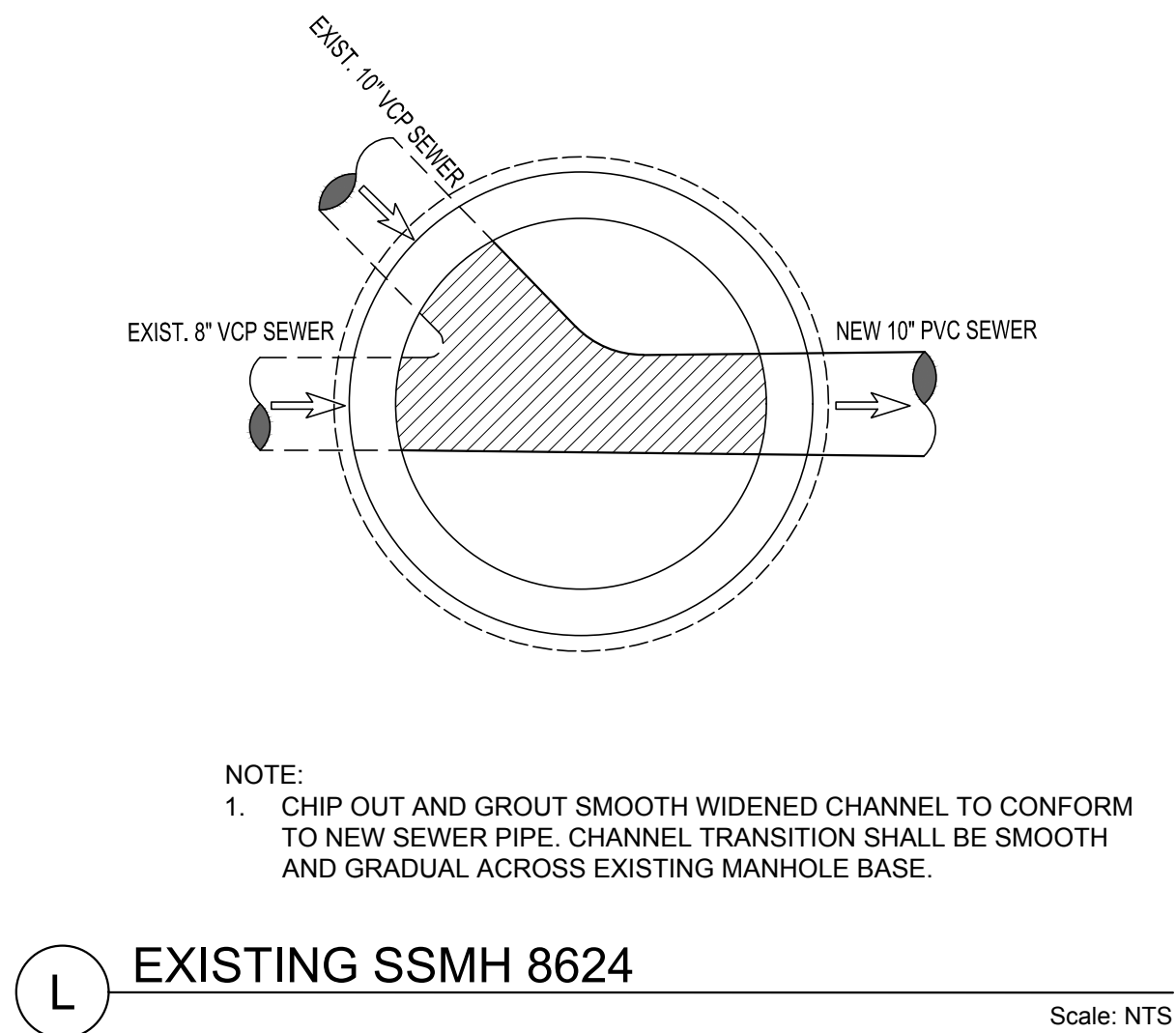
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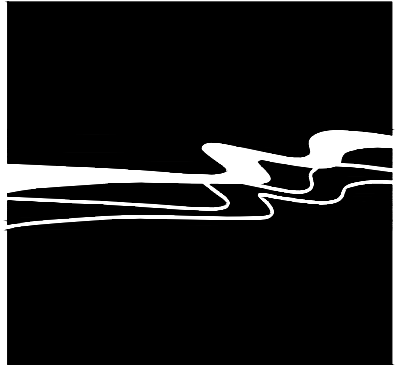
J MANHOLE FRAME AND COVER
Scale: NTS



K PIPE SUBGRADE FOR SEWER AND STORM DRAIN
Scale: NTS



B	02/15/19	ISSUED FOR BID	JSW
A	01/16/19	100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW	JSW
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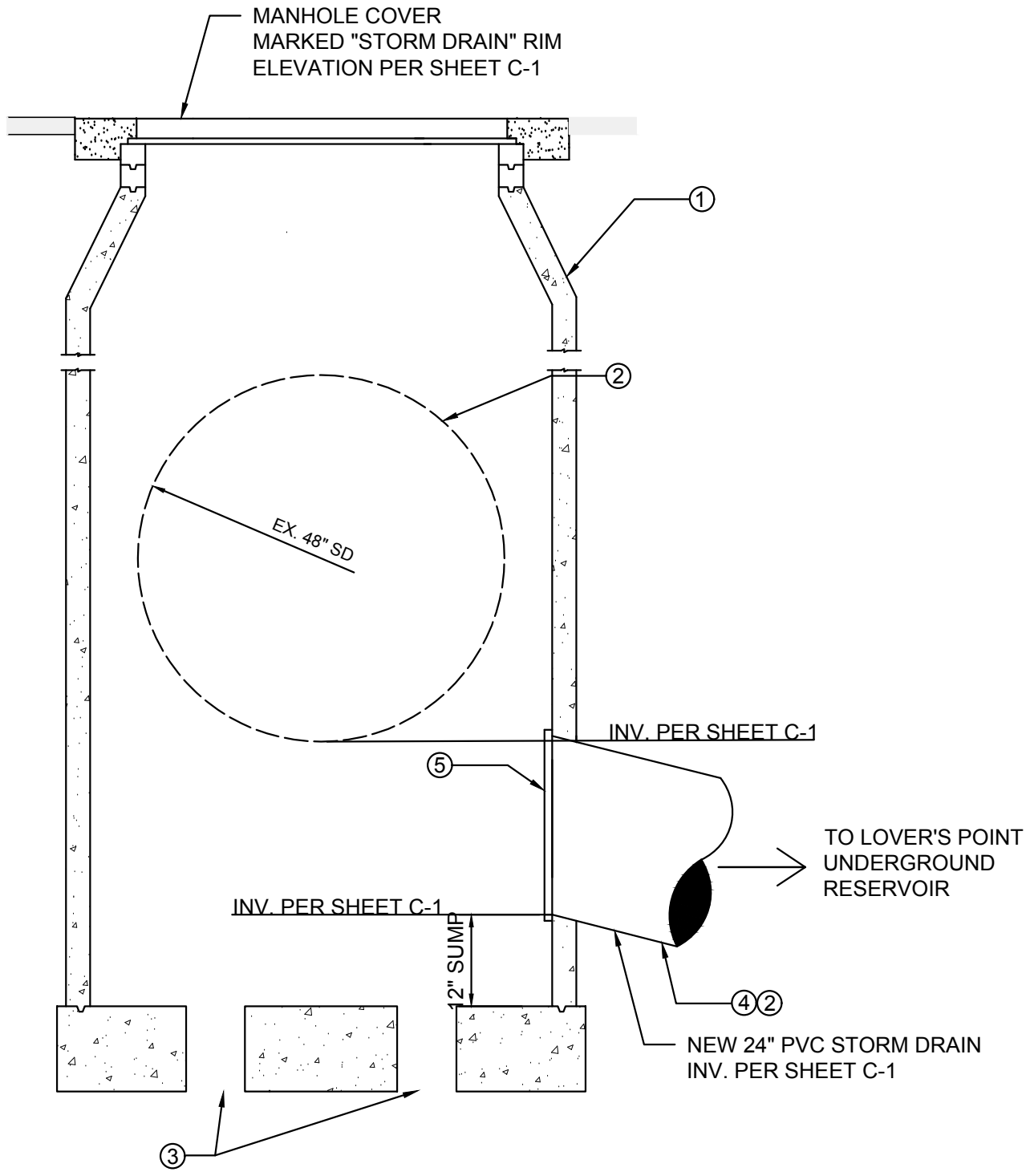


CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASSB
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
DETAILS SHEET

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: ASK
DATE: 02/15/19

DRAWING NO.

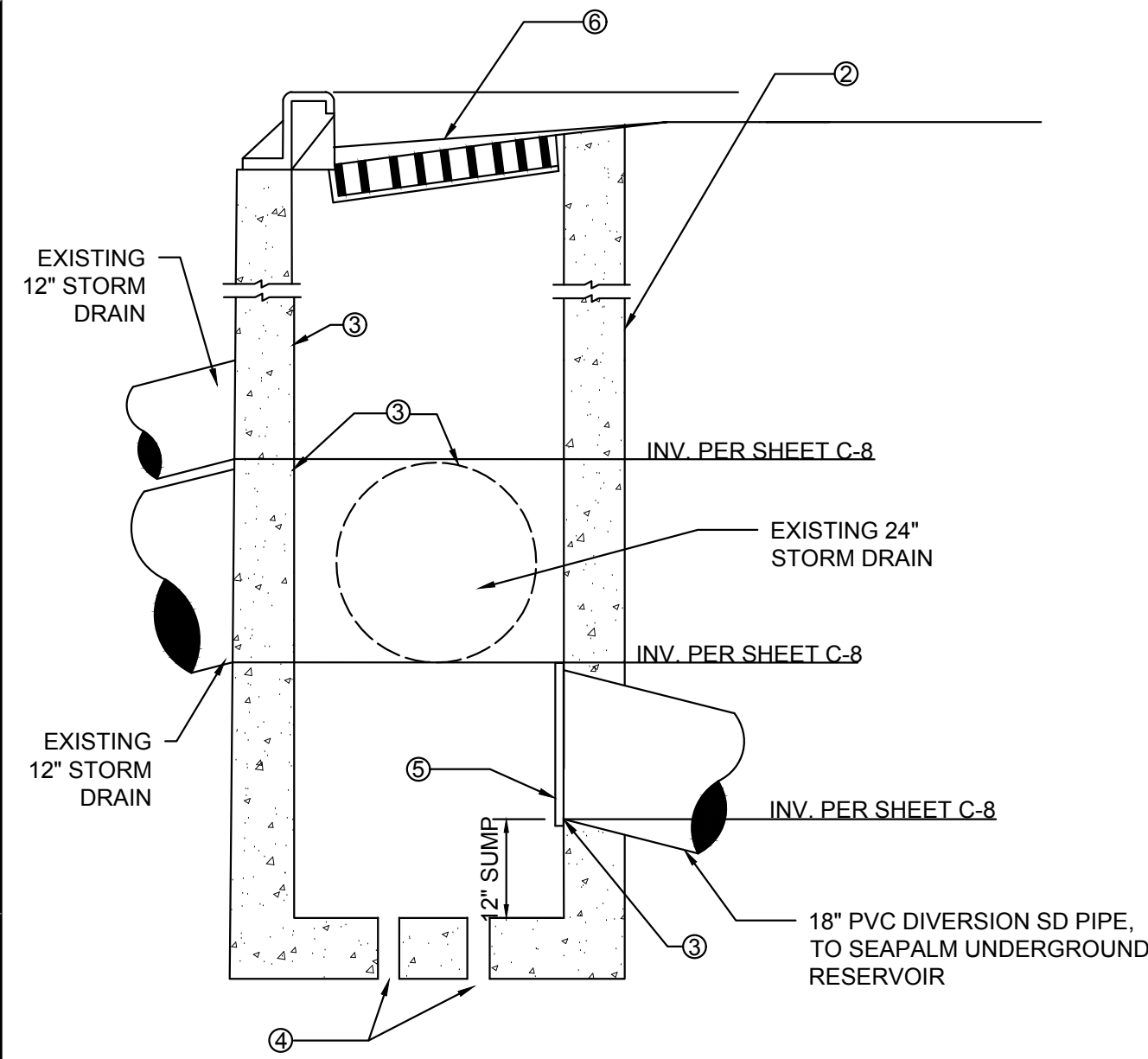
C-18
27 OF 33 SHEETS



- NOTE:
1. STORM DRAIN MANHOLE PER DETAIL G, SHEET C-14.
 2. CORE OR PRECAST OPENING TO ACCOMMODATE EXISTING 48" AND NEW 24" 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. 24" PVC DIVERSION STORM DRAIN.
 5. 30"x30" 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.

P CALEDONIA DIVERSION MANHOLE

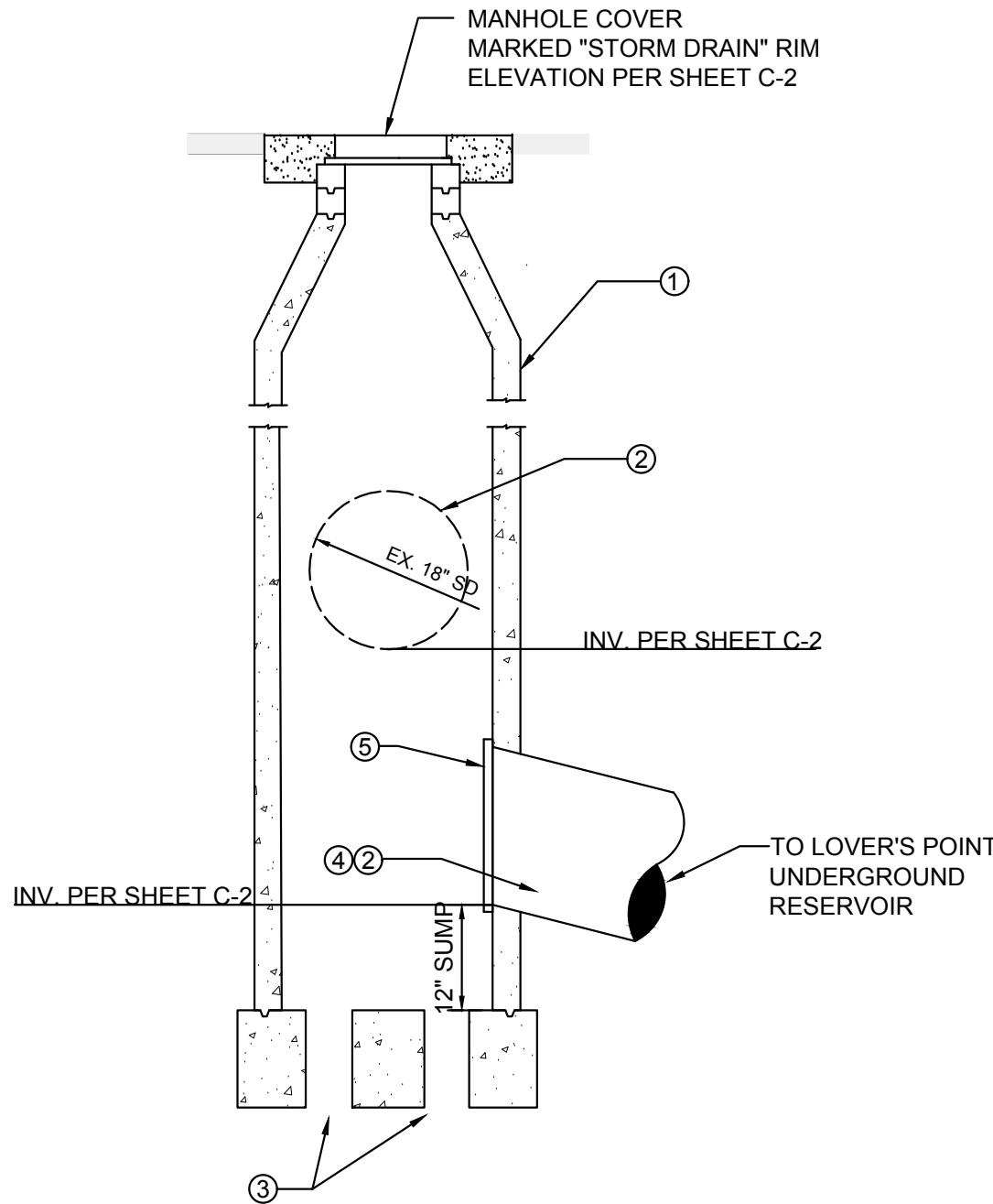
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- NOTE:
1. REFER TO DETAIL H, SHEET C-14 FOR ITEMS NOT SHOWN
 2. CATCH BASIN PER DETAIL F, SHEET C-14
 3. CORE OR PRECAST OPENING TO ACCOMMODATE EXISTING 18" AND NEW 24" STORM DRAIN PIPES. SEAL ANNULUS WITH GROUT, SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF CATCH BASIN.
 4. FOUR 3" CORE DRILLED OPENINGS IN FLOOR OF PRE-CAST BOTTOM, SPACED EQUIDISTANT.
 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. MATCH SLOPE OF EXISTING GUTTER AND GRATE.
 7. CROWN OF DIVERSION PIPE BELOW INVERT OF EXISTING PIPE.

T LINE F DIVERSION CATCH BASIN

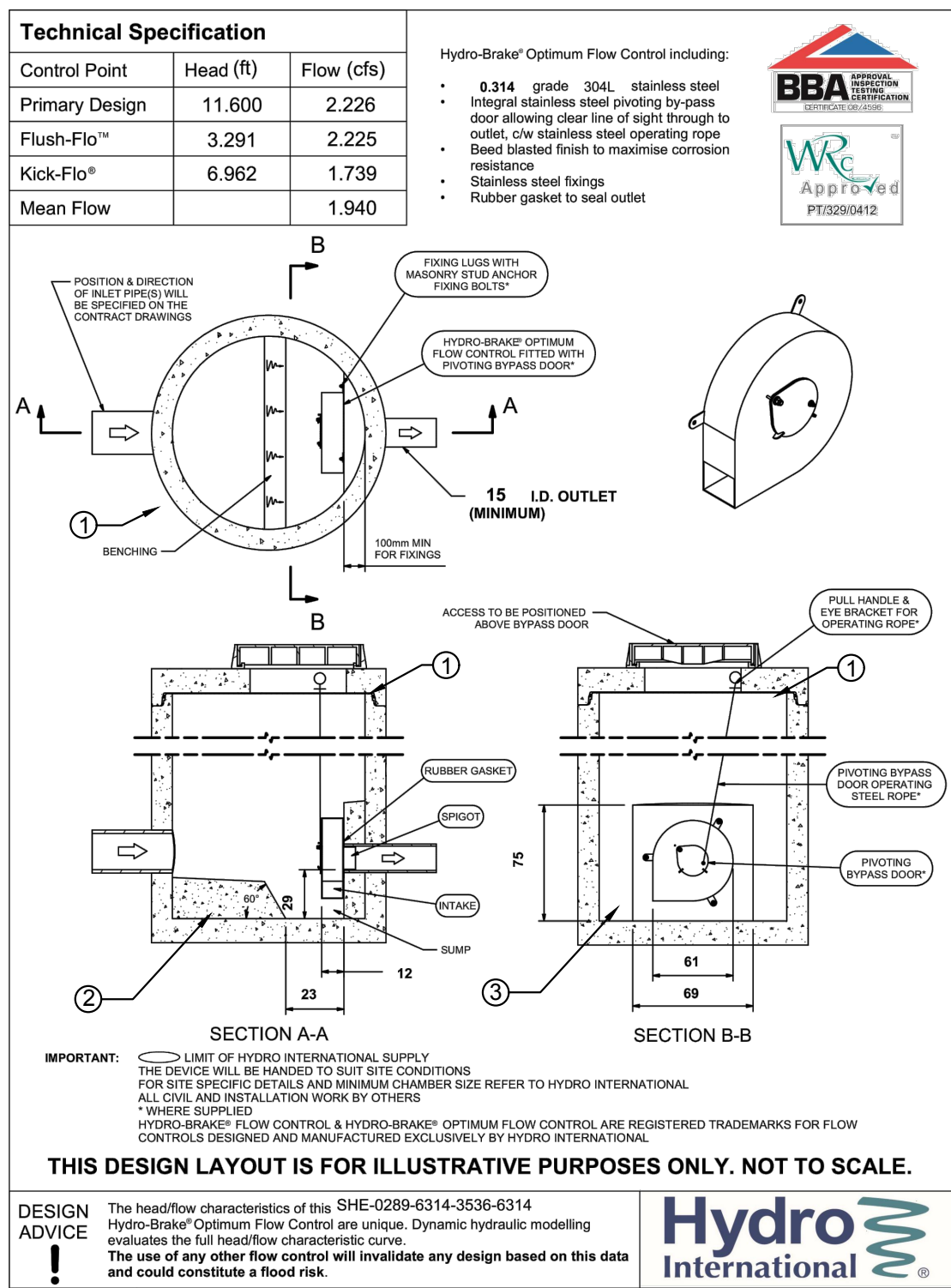
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- NOTE:
1. STORM DRAIN MANHOLE PER DETAIL B, SHEET C-14.
 2. CORE OR PRECAST OPENING TO ACCOMMODATE EXISTING 18" AND NEW 18" STORM DRAIN PIPES. SEAL ANNULUS WITH GROUT, SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF MANHOLE.
 3. FOUR 3" PVC SLEEVES 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.

Q JEWELL DIVERSION MANHOLE

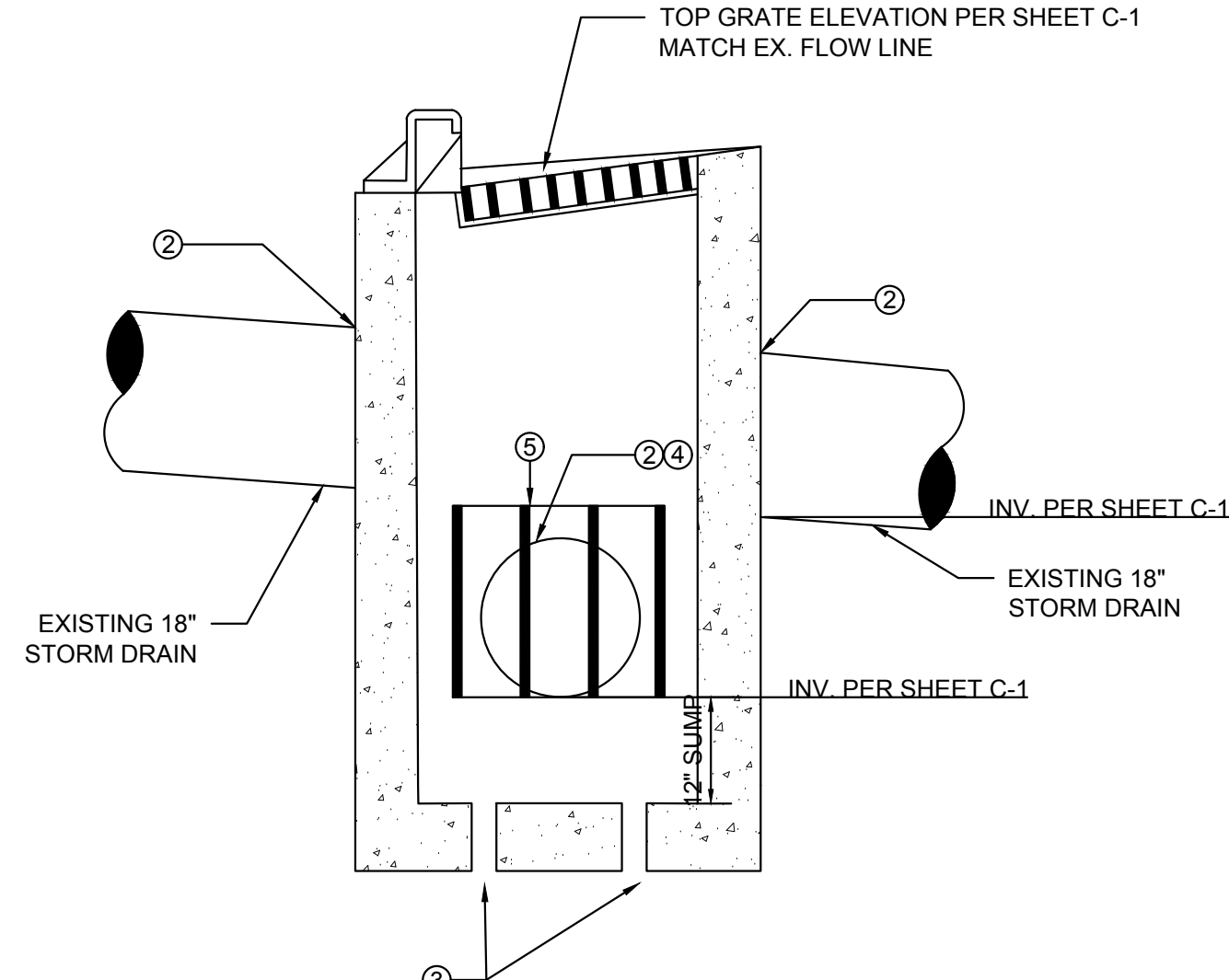
Scale: NTS



- NOTE:
1. STORM DRAIN VAULT DIMENSIONS: 8 FT X 6 FT X 7 FT.
 2. BENCH VAULT BASE. CONCRETE SHALL CONFORM TO STATE STANDARD 90-1.01, 565 LBS/CY, CEMENTITIOUS MATERIAL (6-SACK).
 3. CONCRETE MOUNTING SURFACE PERPENDICULAR TO OUTLET PIPE FOR HYDRO-BRAKE. MINIMUM 4" AT CENTERLINE OF OUTLET. CONCRETE SHALL CONFORM TO STATE STANDARD 90-1.01, 565 LBS/CY, CEMENTITIOUS MATERIAL (6-SACK).

U STORMWATER FLOW REGULATOR

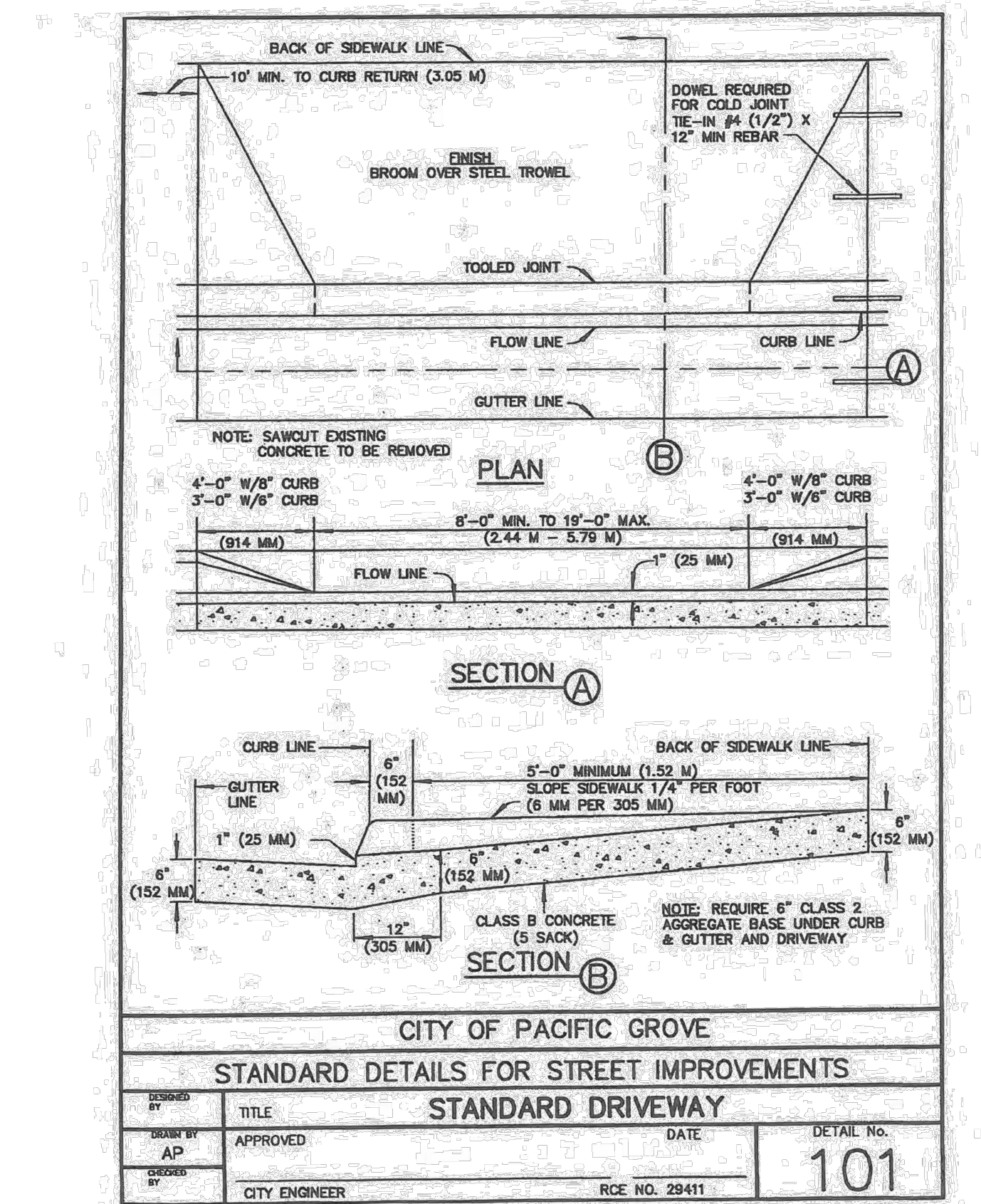
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- NOTE:
1. NEW SD CATCH BASIN PER DETAIL F, SHEET C-14 MODIFIED AS SHOWN.
 2. CORE OR PRE-CAST OPENING TO ACCOMMODATE EXISTING AND NEW 18" SD PIPES. SEAL ANNULUS WITH GROUT, SMOOTH GROUT FLUSH WITH INSIDE AND OUTSIDE WALL OF CATCH BASIN.
 3. FOUR 3" CORE DRILLED OPENINGS, SPACED EQUIDISTANT.
 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.

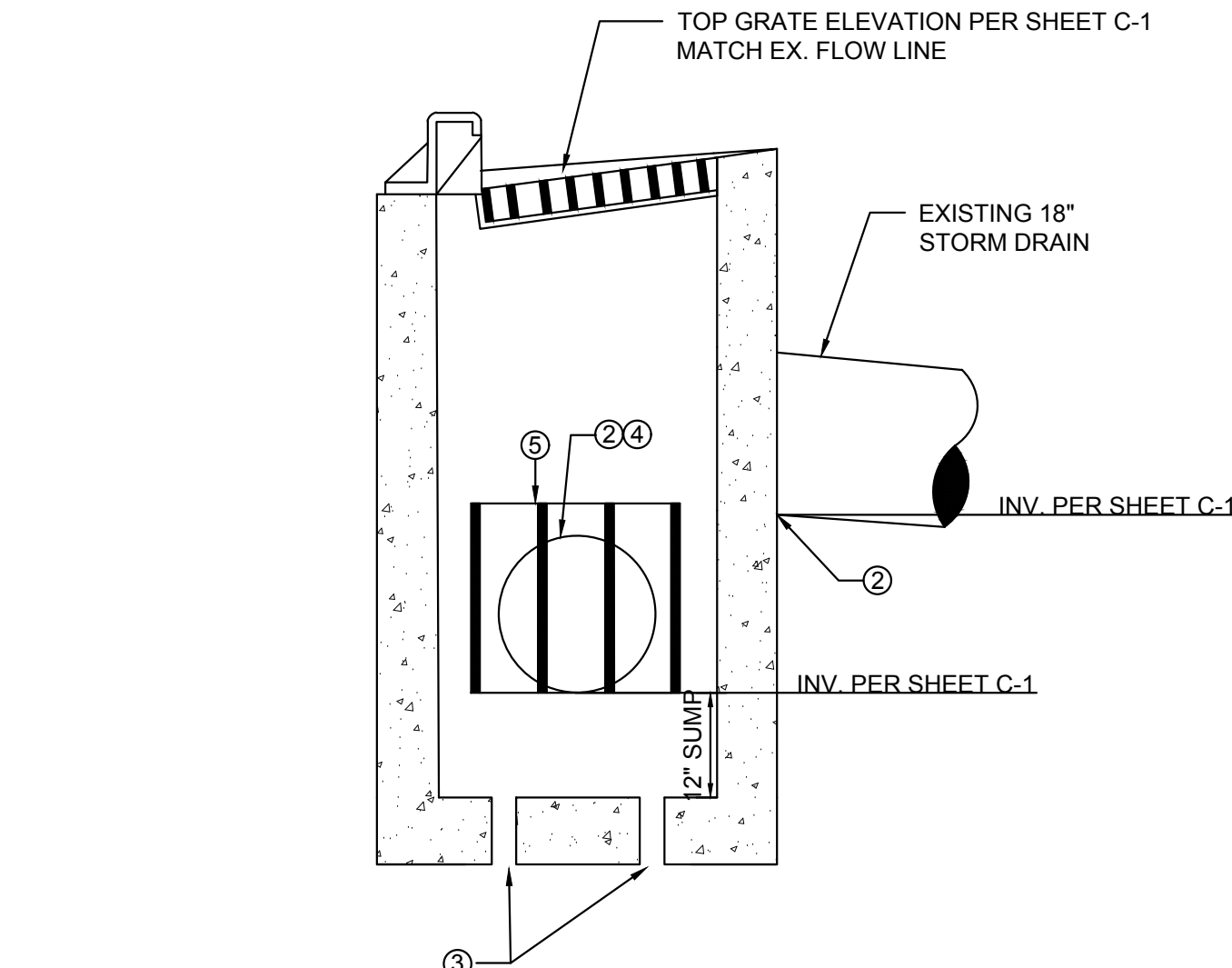
R LINE B DIVERSION CATCH BASIN

Scale: NTS



V STANDARD DRIVEWAY

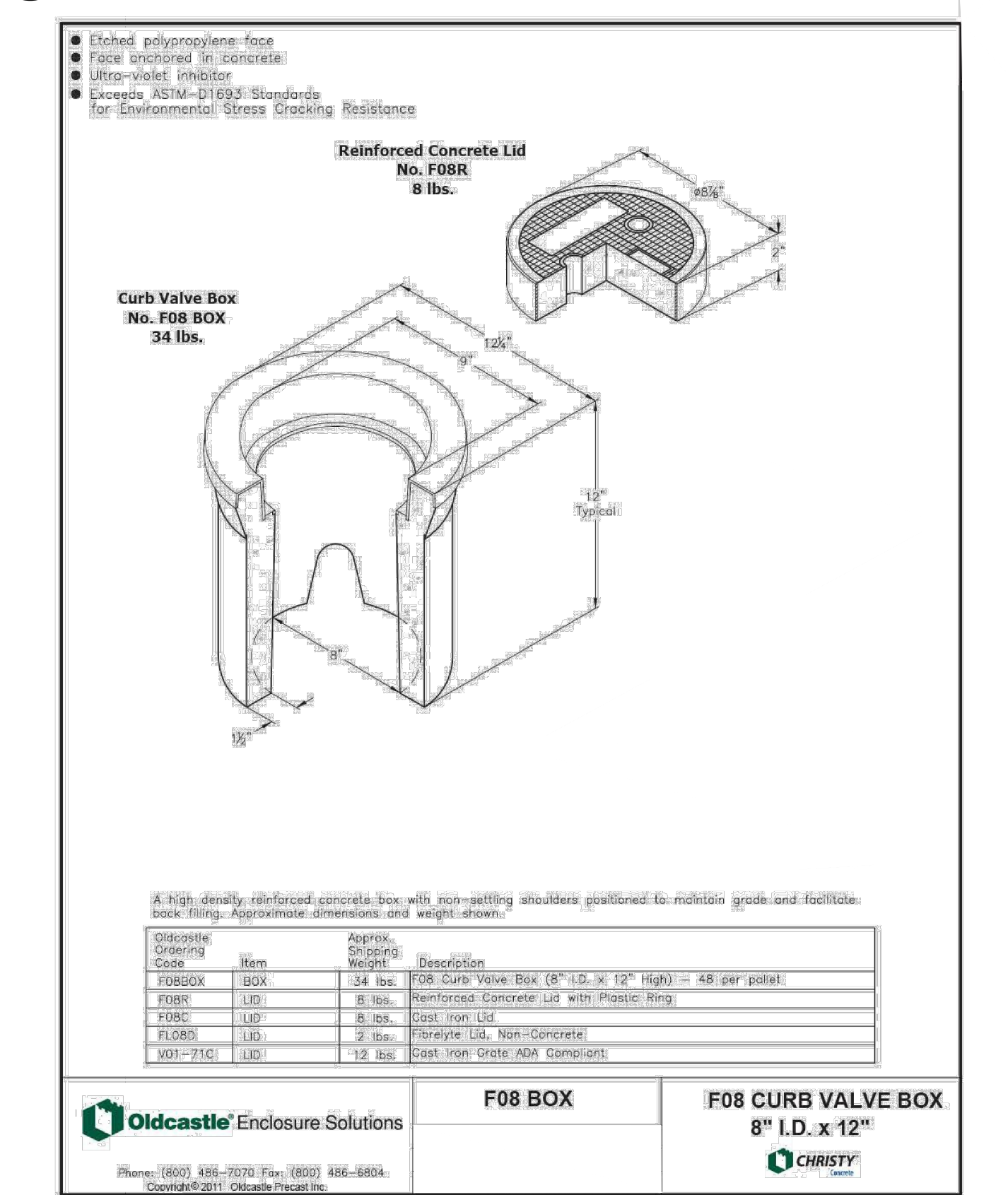
Scale: NTS



- NOTE:
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.
 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.

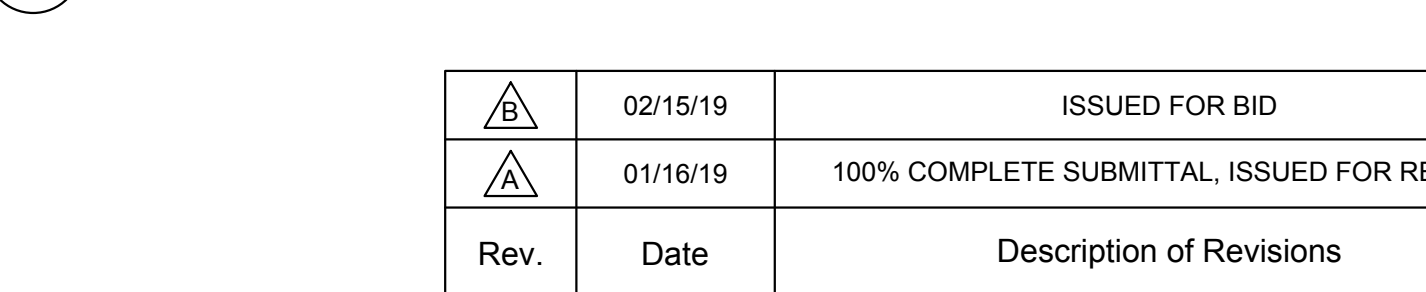
S LINE C DIVERSION CATCH BASIN

Scale: NTS

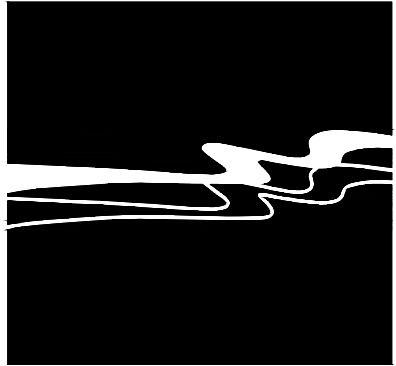


W CLEANOUT ENCLOSURE

Scale: NTS



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Rev.	Date	Description of Revisions	By



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SIGNATURE

DATE SIGNED

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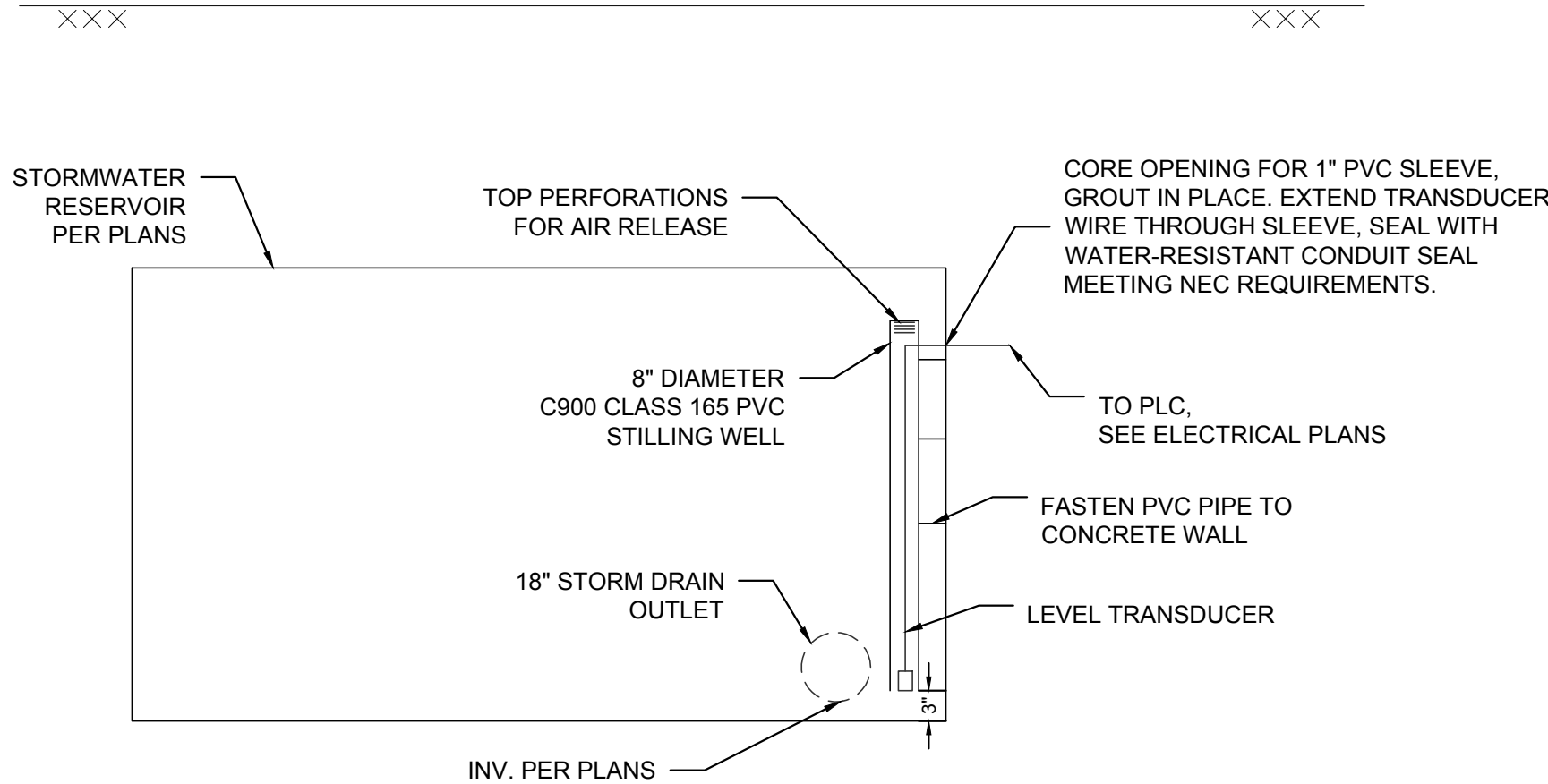
CITY OF PACIFIC GROVE
PACIFIC GROVE - MONTEREY ASBS
WET - DRY WEATHER STORM WATER
CAPTURE AND DIVERSION PROJECT
DETAILS SHEET

JOB #: 1153-0003-01
DESIGNERS: SGT/KEA
DRAWN BY: ASK
DATE: 02/15/19

DRAWING NO.

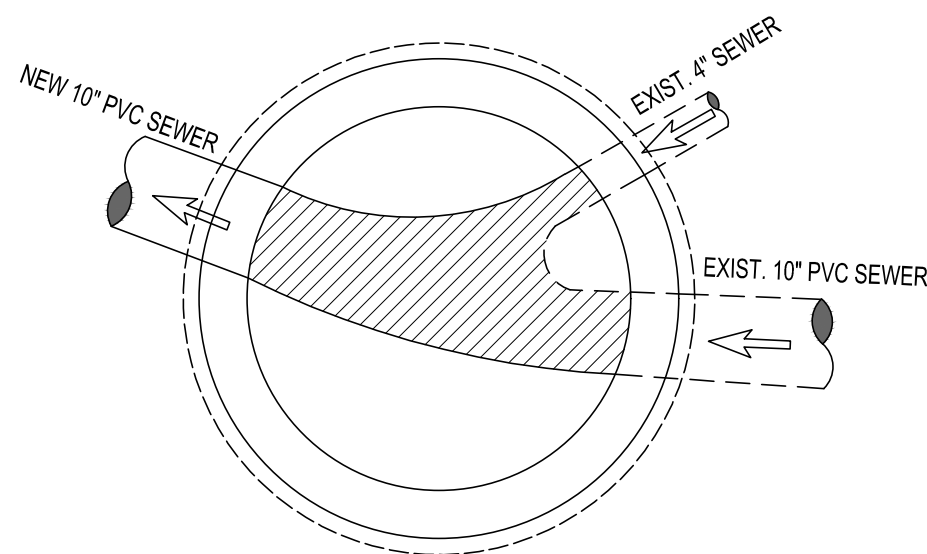
C-19

28 OF 33 SHEETS



X STILLING WELL

Scale: NTS

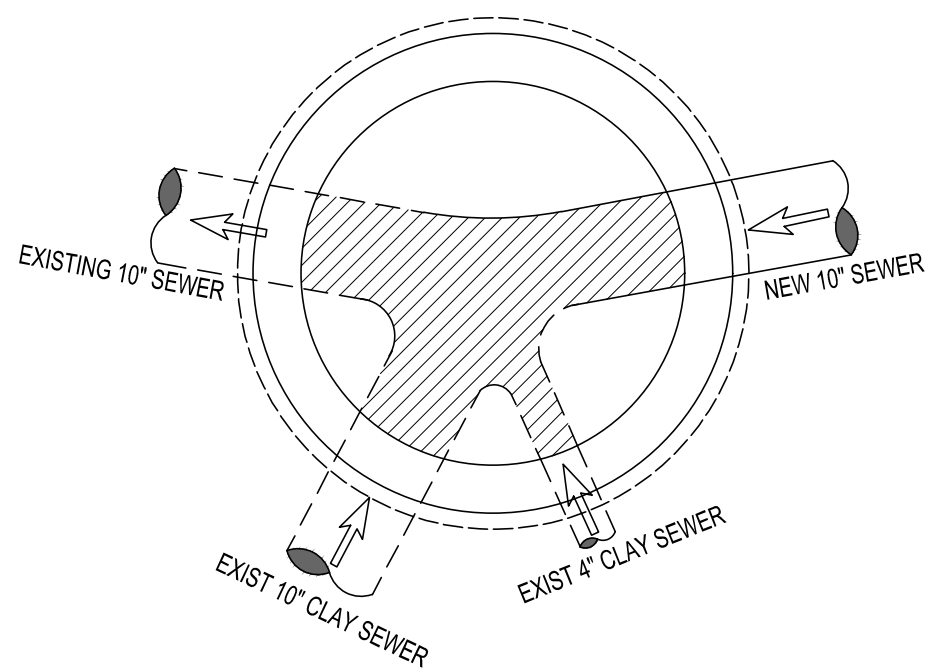


NOTE:

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 DOWNSTREAM.

Y EXISTING SEWER MH 7662

Scale: NTS

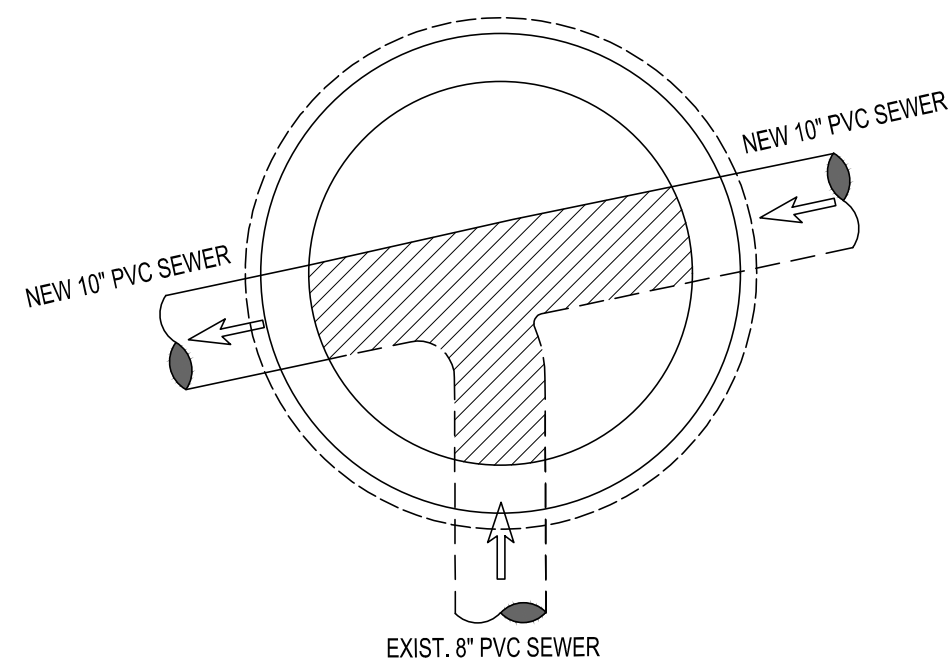


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2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 10" PVC SEWER DOWNSTREAM.

Z EXISTING SEWER MH 20025

Scale: NTS

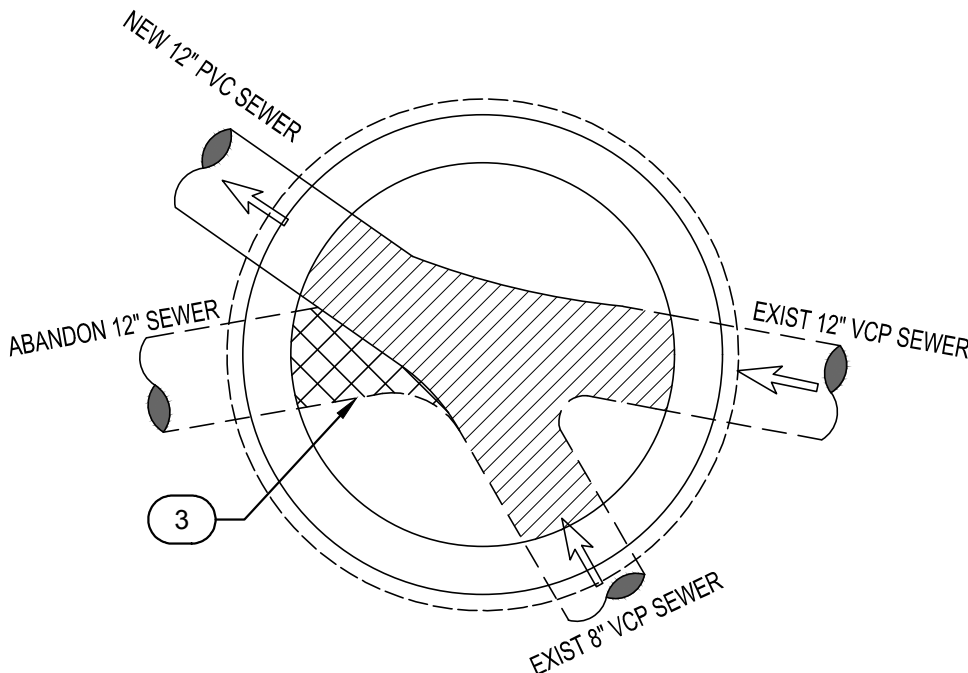


NOTE:

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2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 10" PVC SEWER UPSTREAM AND DOWNSTREAM.

AA EXISTING SEWER MH 20040

Scale: NTS

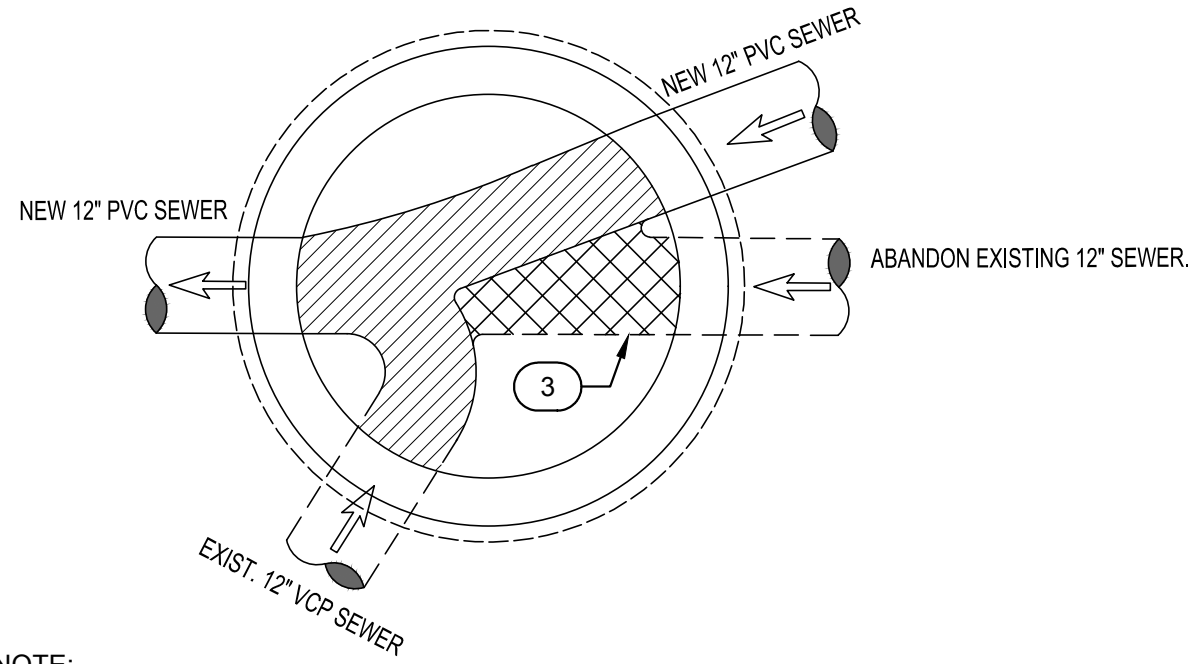


NOTE:

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 3.5H.

BB EXISTING SEWER MH 8811

Scale: NTS

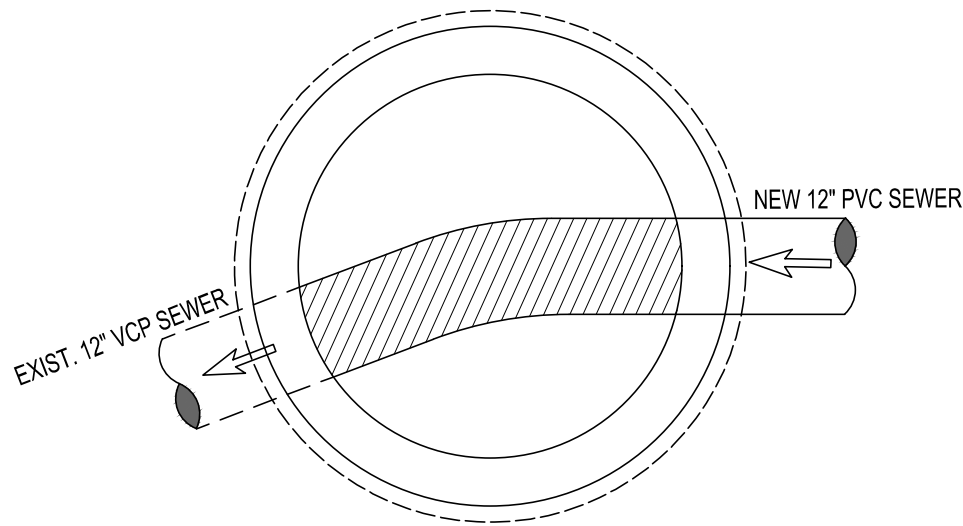


NOTE:

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2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 12" PVC SEWER UPSTREAM AND DOWNSTREAM.
3. FILL IN CHANNEL TO ABANDON 12" SEWER. SEE SECTION 02 42 00, REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS, PARA 3.5H.

CC EXISTING SEWER MH 59

Scale: NTS

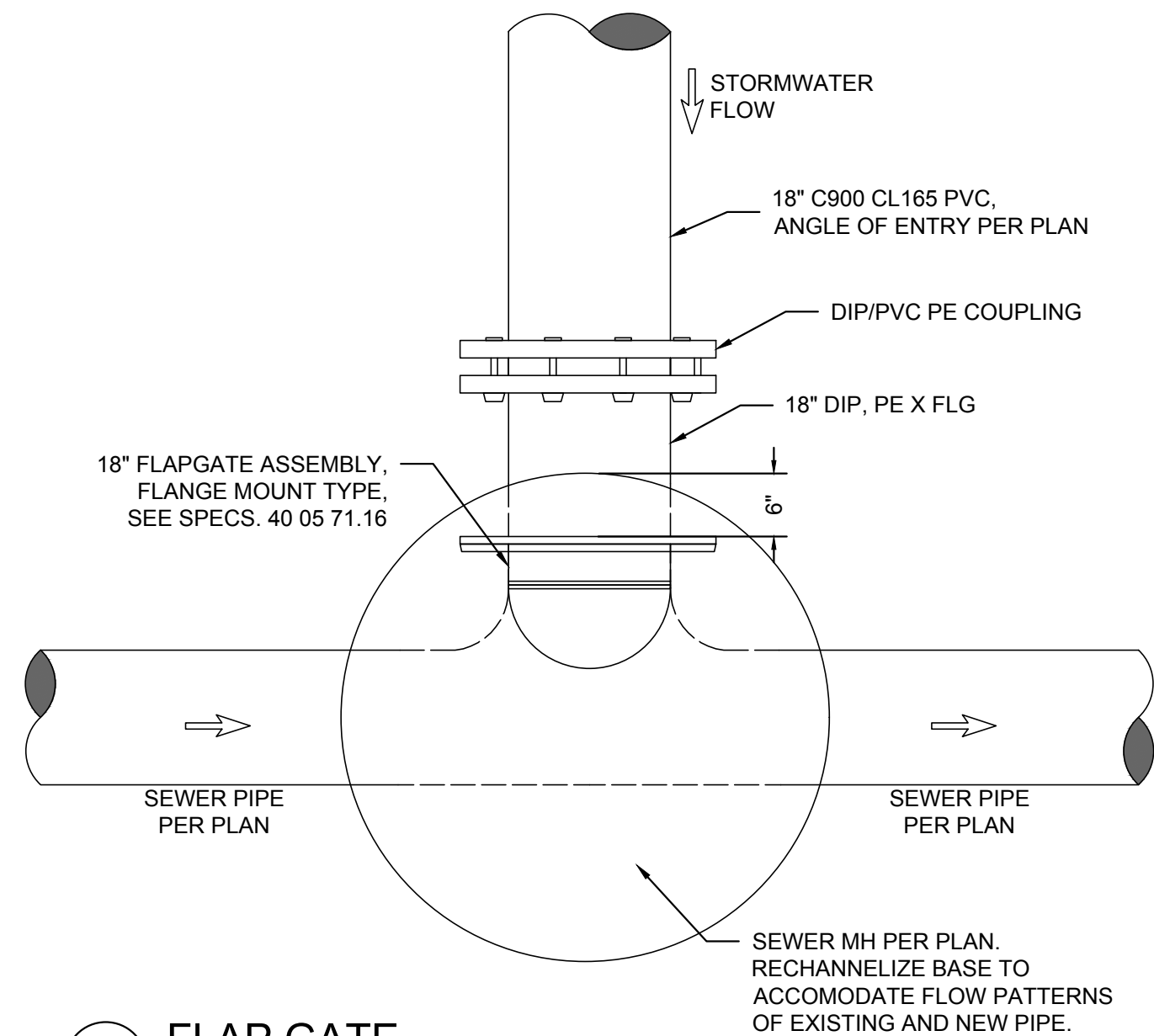


NOTE:

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.

DD EXISTING SEWER MH AT STA 127+37.82

Scale: NTS



EE FLAP GATE

Scale: NTS

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GENERAL SITE PLAN NOTES

- A. UTILITY COMPANY CONTACTS: BEFORE CONSTRUCTION, COORDINATE & VERIFY ALL UTILITY COMPANY REQUIREMENTS:
- [FILL IN]
[FILL IN]
[FILL IN]
[FILL IN]
- B. 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.
- C. 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.
- D. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.
- E. 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.
- F. 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)
<input checked="" type="checkbox"/> AN ESTIMATE ONLY	<input checked="" type="checkbox"/> AN ESTIMATE ONLY	<input checked="" type="checkbox"/> AN ESTIMATE ONLY
<input type="checkbox"/> BASED ON PLAN RECEIVED ON _____	<input type="checkbox"/> BASED ON PLAN RECEIVED ON _____	<input type="checkbox"/> BASED ON PLAN RECEIVED ON _____

LEGEND

NOTE: INTERPRET IN CONTEXT

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- ⊙ WALL SURFACEMOUNT
- ⊕ PENDANT MOUNT
- ⊖ RECESSED DOWNLIGHT
- ⊖ RECESSED WALLWASH
- ⊖ RECESSED FLUOR.
- ⊖ SURFACE FLUOR.
- ⊖ FLUOR. STRIP UON
- ⊖ TRACK LIGHT
- ⊖ DIRECTIONAL FLOOD
- ⊖ EMERGENCY FIXTURE
- ⊖ POLE LIGHT
- ⊖ POLE LIGHT-DECORATIVE
- ⊖ UPLIGHT-FLUSH IN GRADE
- ⊖ BOLLARD
- ⊖ TANDEM-WIRED LAMPS
- ⊖ UNDERCABINET LIGHT
- ⊖ WALL SURFACEMOUNT LINEAR TYPE
- ⊖ PENDANT LINEAR FLUOR.
- ⊖ RECESSED WALLMOUNT
- ⊖ WALLPACK
- ⊖ EXIT LIGHT- WALL
- ⊖ EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
- ⊖ LETTER ADJACENT INDICATES FIXTURE TYPE

SWITCHES

- \$ SPST
- \$₂ DPST
- \$₃ 3-WAY
- \$₄ 4-WAY
- \$₀ DIMMER
- \$₁ TIMER SWITCH
- \$₇ W/THERMAL OVERLOAD
- \$_P W/PILOT LIGHT
- \$_K KEY OPERATED
- \$_{\$} DUAL LEVEL SWITCHING
- .a SWITCH/LEG DESIGNATION
- Ⓢ OCCUPANCY SENSOR

POWER/COMM.

- Ⓢ SINGLE RECEPT.
- Ⓢ DUPLEX RECEPT.
- Ⓢ DUPLEX- HALF SWITCHED
- Ⓢ DOUBLE DUPLEX
- Ⓢ SPECIAL CONFIGURATION
- Ⓢ FLOORMOUNT 208V, 10 RECEPT
- Ⓢ DUPLEX- FLOOR OUTLET
- Ⓢ GROUND FAULT CIRCUIT INTERRUPT
- Ⓢ MOUNTED ABOVE COUNTER
- Ⓢ JUNCTION BOX
- ▼ TELEPHONE OUTLET
- ▼ DATA OUTLET
- ▼ PHONE/DATA COMBO OUTLET
- ▼ MOUNTED ABOVE COUNTER
- Ⓢ TELEVISION OUTLET
- Ⓢ SAFETY DISCONNECT
- Ⓢ DROP CORD RECEPT
- Ⓢ ABOVE-CLGMOUNT J-BOX
- Ⓢ TV OUTLET-FLOORMOUNT
- Ⓢ TELEPHONE FLOOR OUTLET
- Ⓢ DATA FLOOR OUTLET
- Ⓢ PHONE/DATA COMBO FLOOR OUTLET

MISCELLANEOUS

- Ⓢ MOTOR
- Ⓢ THERMOSTAT
- Ⓢ CIRCUIT BREAKER
- Ⓢ FUSIBLE SWITCH
- Ⓢ GROUND
- Ⓢ PHASE
- Ⓢ CLOCK
- Ⓢ CLOCK/SPEAKER COMBINATION
- Ⓢ WALL MOUNTED CLOCK
- Ⓢ PUSHBUTTON
- Ⓢ FLUSHMOUNT PANEL
- Ⓢ SURFACEMOUNT PANEL
- Ⓢ FLUSHMOUNT CABINET
- Ⓢ SURFACEMOUNT CABINET
- Ⓢ DAMPER MOTOR
- Ⓢ HUMIDISTAT
- Ⓢ MAGNETIC CONTACTOR
- Ⓢ COMBINATION STARTER

CONDUIT/WIRE

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

FIRE ALARM

- Ⓢ FIRE ALARM CONTROL PANEL
- Ⓢ REMOTE POWER SUPPLY
- Ⓢ HORN- AUDIBLE DEVICE
- Ⓢ VISUAL- VISUAL DEVICE
- Ⓢ AUDIBLE/VISUAL
- Ⓢ SPEAKER/VISUAL
- Ⓢ FLOW SWITCH
- Ⓢ TAMPER SWITCH
- Ⓢ MANUAL PULL STATION
- Ⓢ SMOKE DETECTOR
- Ⓢ DUCT SMOKE DETECTOR
- Ⓢ HEAT DETECTOR
- Ⓢ 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
- Ⓢ CLOCK/SPEAKER WALLMOUNT SEMI-FLUSH

CONVENTIONS

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

1 DETAIL REFERENCE:
-DETAIL DESIGNATION
-SHEET NUMBER REFERENCE

3103 FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3 CURRENT CARRYING CONDUCTORS, PREFIXES: 'M' INDICATES MEDIUM VOLTAGE, 'CO14' INDICATES CONDUIT ONLY, QUANTITY (1) AND SIZE (4"))

ABBREVIATIONS

A AMPERE	FAU FORCED AIR UNIT	OC ON CENTER
AB AMP BREAKER	FBO FURNISHED BY OTHERS	OCF OVERCURRENT PROTECTION
ABAND ABANDONED	FC# FAN COIL	OD OUTSIDE DIAMETER
ABV ABOVE	FLA FULL LOAD AMPS	OH OVERHEAD
AC ALTERNATING CURRENT	FLR FLOOR	OSA OFFICE OF THE STATE ARCHITECT
AC-# AIR CONDITIONER	FLUOR FLUORESCENT	OSHPD OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
ADJ ADJACENT	FS FUSIBLE SWITCH	OVL D OVERLOAD
AF AMP FUSE, AMP FRAME	FVIR FULL VOLTAGE NON-REVERSING	P PA PUBLIC ADDRESS
AFF ABOVE FINISH FLOOR	G GROUNDING CONDUCTOR	PB PULLBOX
AFG BOVE FINISH GRADE	GC GENERAL CONTRACTOR	PC PULL CHAIN
AIC AMPERES INTERRUPTING CAPACITY	GD GARBAGE DISPOSAL	PC PHOTOCELL
AI ALUMINUM	GFCI GROUND FAULT CIRCUIT INTERRUPTER	PC PLUMBING CONTRACTOR
AS AMP SWITCH RATING	GFI GROUND FAULT CIRCUIT INTERRUPTER	ph PHASE
ATS AUTOMATIC TIME SWITCH	GND GROUND	PNL PANEL
ATS AUTOMATIC TRANSFER SWITCH	GRS GALVANIZED RIGID STEEL	POC POINT OF CONNECTION
AV AUDIBLE/AUDIO VISUAL	GWS GANG WITH SWITCH	-PP- POWER PRIMARY
AWG AMERICAN WIRE GAGE	H HEIGHT, HIGH	-PS- POWER SECONDARY
BFG BELOW FINISH GRADE	HACR HEATING, AC & REFRIG	PV PHOTOVOLTAIC
BIL BASIC IMPULSE LEVEL	HID HIGH INTENSITY DISCHARGE	(R) RELOCATE(D)
BLDG BUILDING	HO HIGH OUTPUT	RECEPT RECEPTACLE
C CONDUIT	HOA HAND-OFF-AUTO	REF REFRIGERATOR
-C- CATV CONDUIT	HP HORSEPOWER	REOD REQUIRED
CABT CABINET	HPF HIGH POWER FACTOR	RLA RATED LOAD AMPS
CATV CABLE TELEVISION	HPS HIGH PRESSURE SODIUM	RM ROOM
CB CIRCUIT BREAKER, CODE BLUE	IC INTERCOM	RMC RIGID METAL CONDUIT
CBC CA BUILDING CODE	ID IDENTIFICATION	RMV REMOVE
CEC CA ELECTRICAL CODE	IF INSIDE FROST	RPLC REPLACE
CF COMPACT FLUORESCENT	IG ISOLATED GROUND	RS RAPID START
CFC CALIFORNIA FIRE CODE	J-BOX JUNCTION BOX	SC SIGNAL CABINET
CLG CEILING	K QUANTITY 1000	SCC SHORT CKT CURRENT
CL CENTER LINE	KVA KILOVOLTAMPS	SFM STATE FIRE MARSHAL
CKT CIRCUIT	KW KILOWATT	SHT SHEET
CNTR CONTRACTOR	LC LIGHTING CONTACTOR	SL SLIMLINE, SWITCH LEG SPECIFICATION
C.O. CONDUIT ONLY (W/PULL ROPE)	LPS LOW PRESSURE SODIUM	SPST SINGLE POLE SINGLE THROW
COND CONDUIT, CONDUCTOR	LRA LOCKED ROTOR AMPS	SQ SQUARE
CR CRITICAL BRANCH	LS LIFE SAFETY BRANCH	STRG STORAGE
CSFM CALIFORNIA FIRE CODE	LT LIGHT	SURF SURFACE
CT CURRENT TRANSFORMER	LTG LIGHTING	SV SERVICE
Cu COPPER	LV LOW VOLTAGE	SW SWITCH
CU-# CONDENSING UNIT	MC MECHANICAL CONTRACTOR	T TRANSFORMER, TERMINAL
D DEPTH	MCA MINIMUM CKT AMPS	-T- TELEPHONE CONDUIT TO BE REMOVED (TER)
DC DIRECT CURRENT	MCS MAIN CIRCUIT BREAKER	TC TIME CLOCK
DF DRINKING FOUNTAIN	MCTB MAIN CATV TERMINAL BOARD	TEL TELEPHONE
DIA DIAMETER	MECH MECHANICAL	TELO TELEPHONE COMPANY
DISC DISCONNECT	MFR MANUFACTURER	TS TIME SWITCH
DIST DISTRIBUTION	MFS MAIN FUSIBLE SWITCH	TSO TIME SWITCH OVERRIDE
DW DOUBLE POLE SINGLE THROW	MH METAL HALIDE	TSP TWISTED SHIELDED PAIR
EM EMERGENCY	MLO MAIN LUGS ONLY	TTB TELEPHONE TERMINAL BOARD
(E) EXISTING	MOCP MAXIMUM OCP	TTC TELEPHONE TERMINAL CABINET
EA EACH	MT MOUNT	TX TRANSFORMER
EB ELECTRONIC BALLAST	MT HT MOUNTING HEIGHT	TYP TYPICAL
EC ELECTRICAL CONTRACTOR	MTS MANUAL TRANSFER SWITCH	TYP SIM TYPICAL SIMILAR
EC-# EVAPORATIVE COOLER	MTTB MAIN TELEPHONE TERMINAL BOARD	UG UNDERGROUND
EF-# EXHAUST FAN	MTTC MAIN TELEPHONE TERMINAL CABINET	UGPS UNDERGROUND PULL SECTION
ELEC ELECTRICAL	N NEUTRAL (GROUNDED CONDUCTOR)	UL UNDERWRITERS LABORATORIES
EM EMERG BATTERY BACKUP	NW MICROWAVE	USA UG SVC ALERT 800-642-2444
EMERG EMERGENCY BALLAST	N ENERGY SAVING	V VOLT
EOL END OF LINE	(N) NEMA 3R	VA VOLT AMPERES
EQUIPT EQUIPMENT	NC NORMALLY CLOSED	VAC VOLT ALTERNATING CURRENT
ES ENERGY SAVING	NEC NATIONAL ELECTRICAL CODE	VHO VERY HIGH OUTPUT
(EXN) (E) IN (N) LOCATION	NEMA NAT'L ELEC MANUFACTURERS ASSOC	VOLT VOLTAGE
EXT EXTERIOR	NIC NOT IN CONTRACT	VR VANDAL-RESISTANT
F FUTURE	NL NIGHT LIGHT	W WIDTH, WAIT, WIRE
F-# FURNACE	NO NORMALLY OPEN	WH# WATER HEATER
FA FIRE ALARM	NPF NORMAL POWER FACTOR	WP WEATHERPROOF (NEMA 3R)
FACP FIRE ALARM CONTROL PANEL	NTS NOT TO SCALE	+48 INDICATES MOUNTING HEIGHT AFF
FAT FIRE ALARM TERMINAL		

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 PUBLICATIONS:
 - 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).
- 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 FANS, 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 OWNER.
- 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:

- A. FURNITURE(EXCEPT STORAGE CABINETS AS NOTED IN 2016 CBC TABLE 13.5-1)
- B. TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2016 CBC SECTION 1616A.1.18 ITEM 2.
- C. 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.
- D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
- E. 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, APPENDIX D.

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.
 - PULLROPE: 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:

	BY:

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

thoma
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JOB TITLE:

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

SHEET TITLE:

GENERAL NOTES,
LEGEND, AND
ABBREVIATIONS

DRAWN BY: TR

CHECKED BY: CP

DATE: FEB. 15, 2019

SCALE: AS NOTED

SHEET:

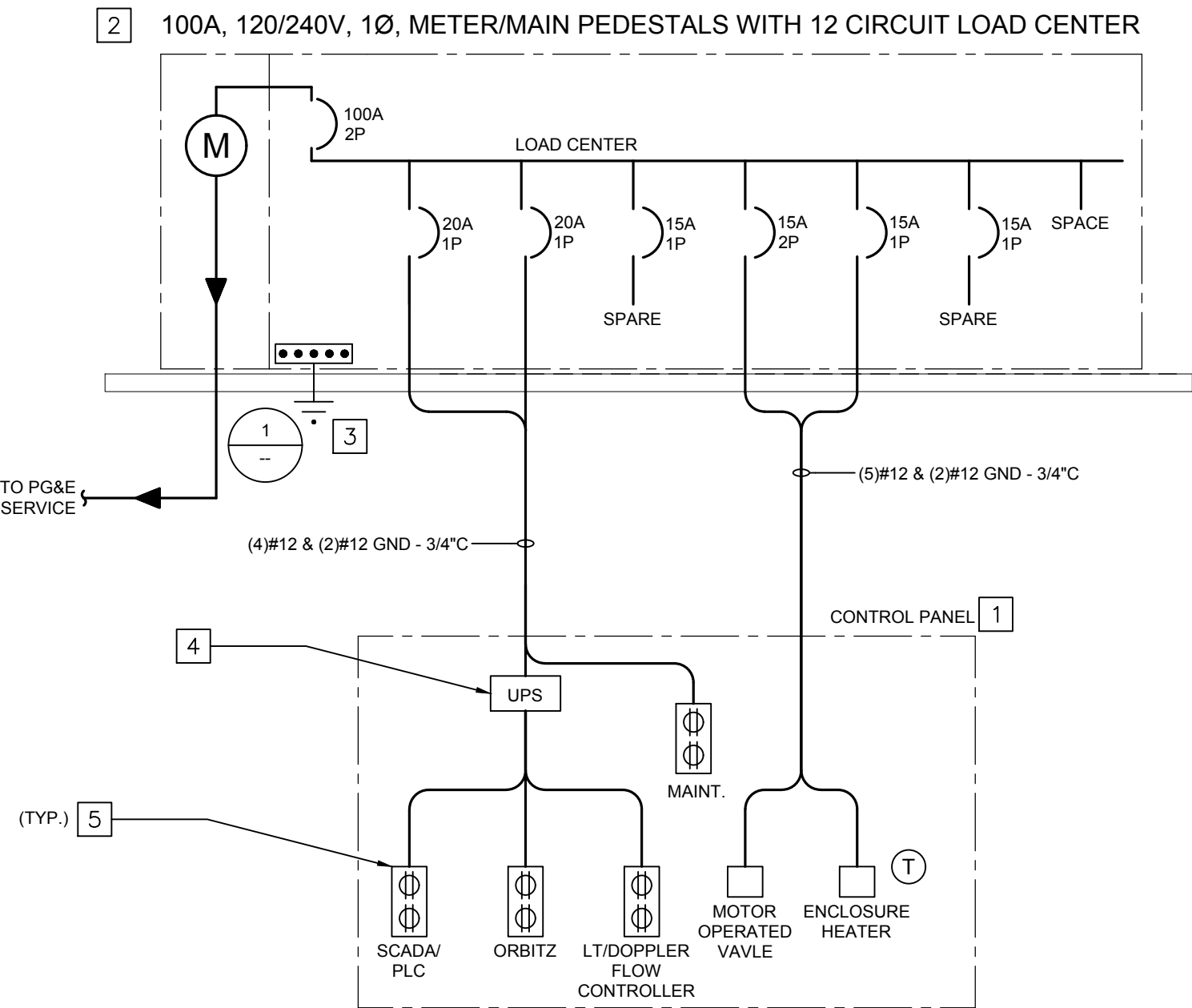
E-1

SINGLE LINE DIAGRAM NOTES

- 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.
- 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.

REFERENCE NOTES

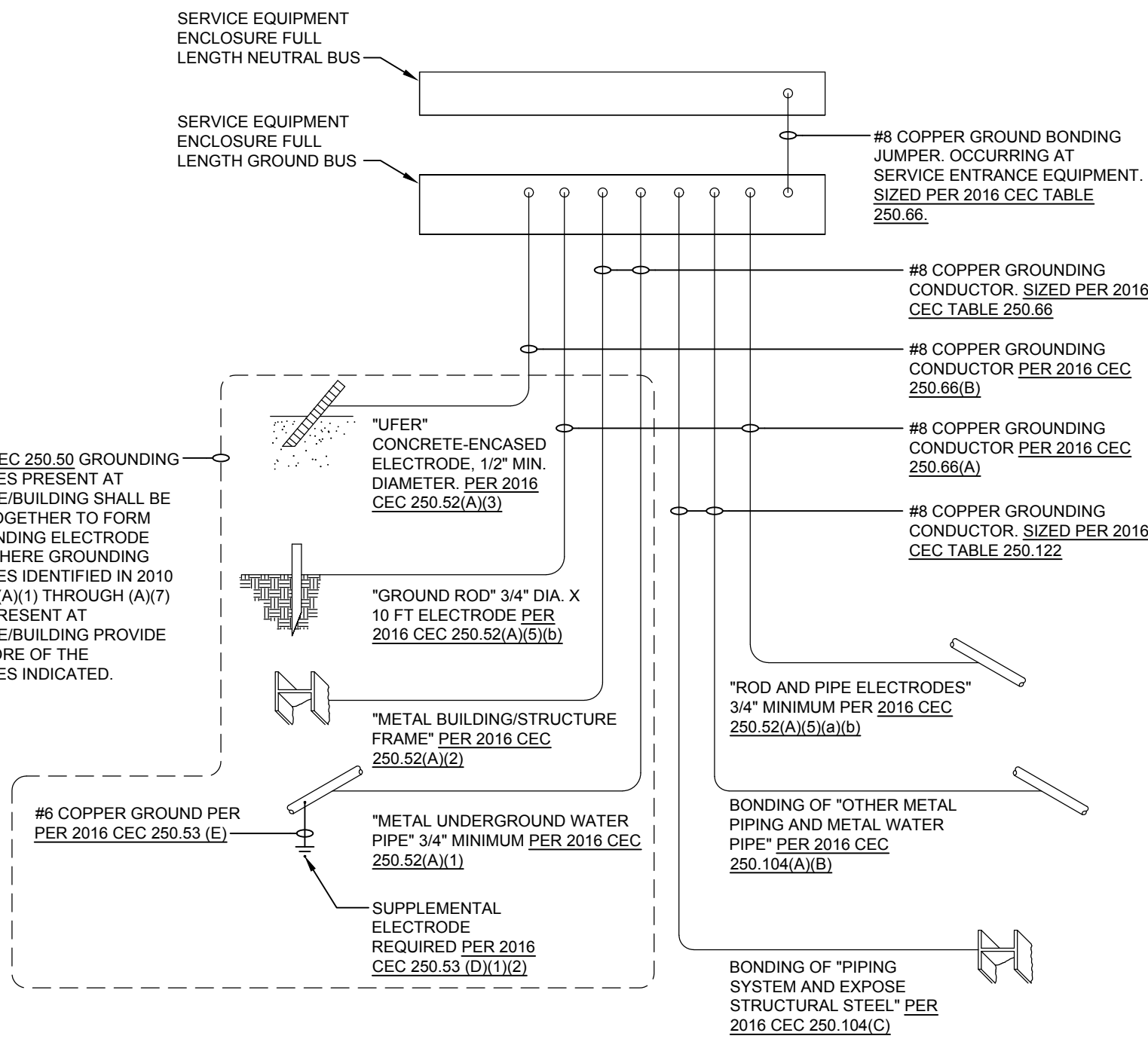
1. CONTROL PANEL, FLOOR MOUNTED 60"h x 48"W x 18"D MINIMUM, NEMA 3R ENCLOSURE WITH FULL SIZE BACKBOARD, CONTINUOUS HINGED DOOR WITH LOCKABLE THREE POINT LATCHING, ENCLOSURE HEATER WITH THERMOSTAT, SCADA, PLC, ORBITZ COMMUNICATION UNIT AND ANTENNA, LEVEL TRANSDUCER, DOPPLER FLOW CONTROLLER AND MOTOR OPERATED 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.



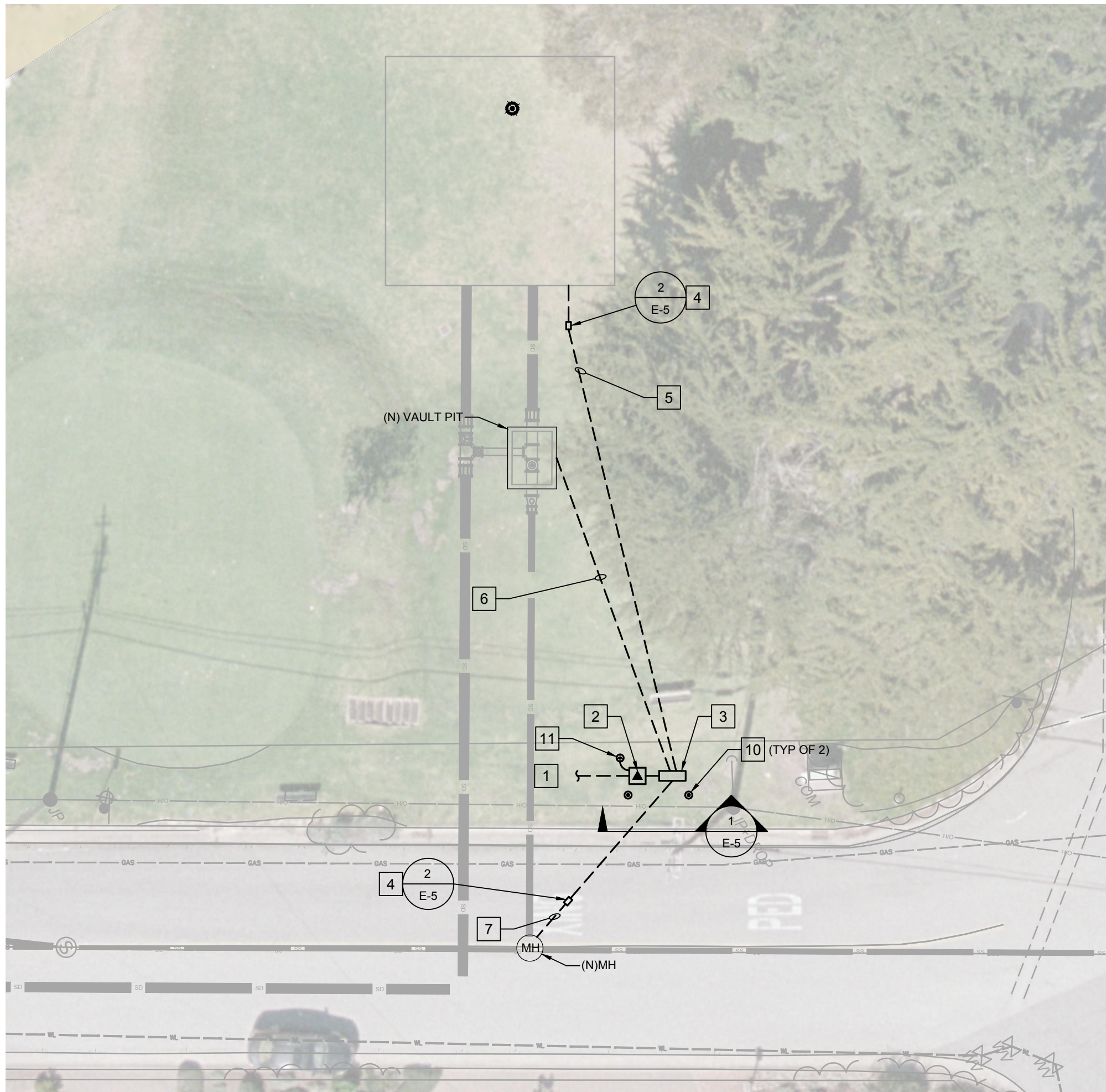
SINGLE LINE DIAGRAM

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PANEL SCHEDULE



Feb 15, 2019 - 10:51am cpdchir K:\ENG\2018\18-8166\18-8166_E-3_SEA PALM LIFT STATION 15.dwg



DEL MONTE BLVD

SCALE: 1/16" = 1'-0"



1 LIFT STATION NO. 15

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

REFERENCE NOTES

- SEE PG&E HANDOUT PACKAGE FOR SITE SERVICE REQUIREMENTS.
- 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.
- 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.
- 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.
- (3)#12 THHN/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.
- 1"C. FOR DOPPLER FLOW METER SENSOR IN MANHOLE. CABLE PROVIDED BY OTHERS, EC INSTALLED. COORDINATE CABLE LENGTH WITH CONTROLS CONTRACTOR.
- 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.
- (E)1-1/2"C. FROM MH TO (E)J-BOX IN GRINDER ROOM/VAULT(CLASS 1, DIV. 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.
- FIXED IN PLACE BOLLARD. SEE SHEET E-5, DETAIL-3.
- GROUND ROD AND CONDUCTOR. SEE SINGLE LINE DIAGRAM.

REVISIONS:

BY:



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

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

SHEET TITLE:

SEA PALM
LIFT STATION NO. 15
SITE PLAN

DRAWN BY: TR

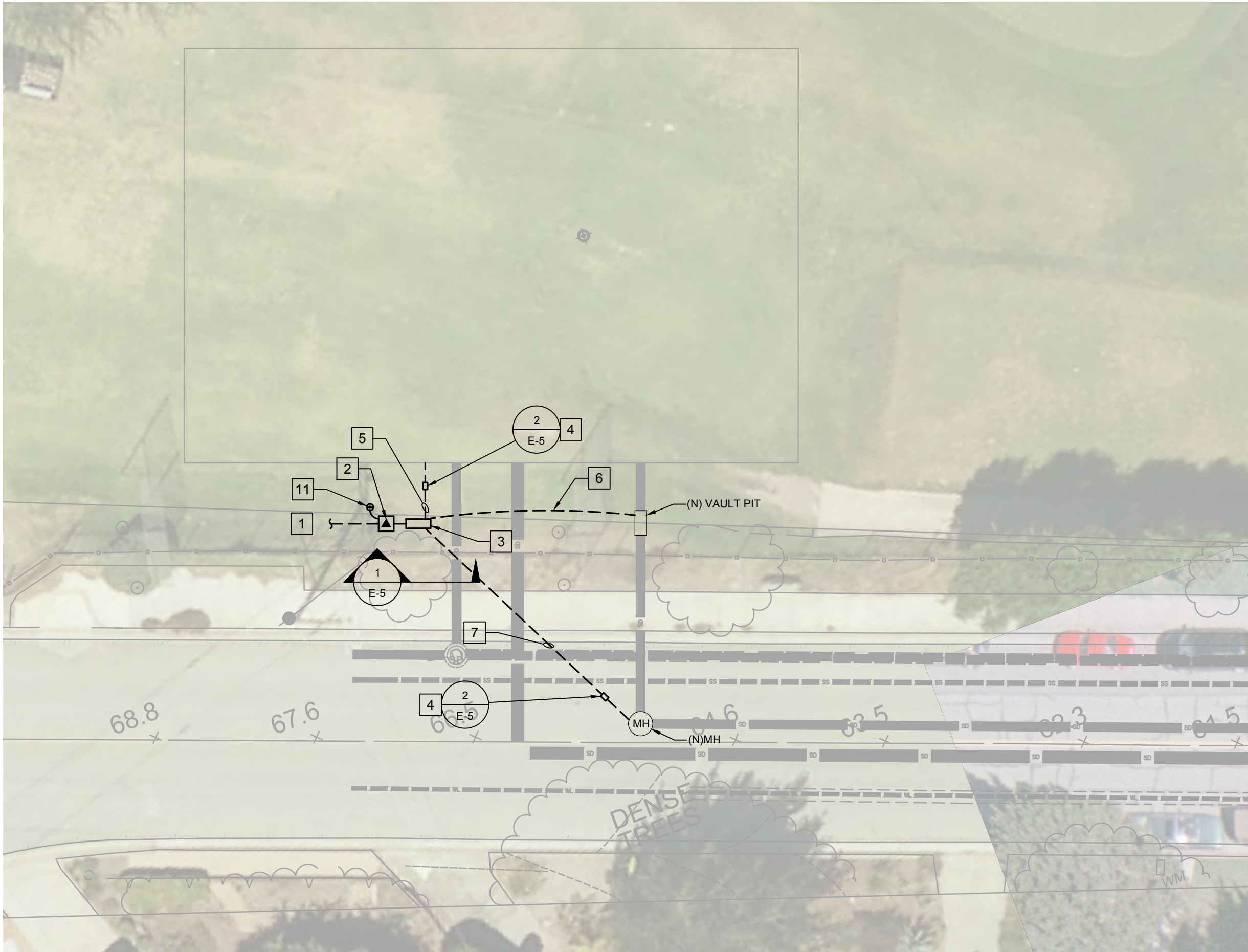
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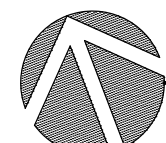
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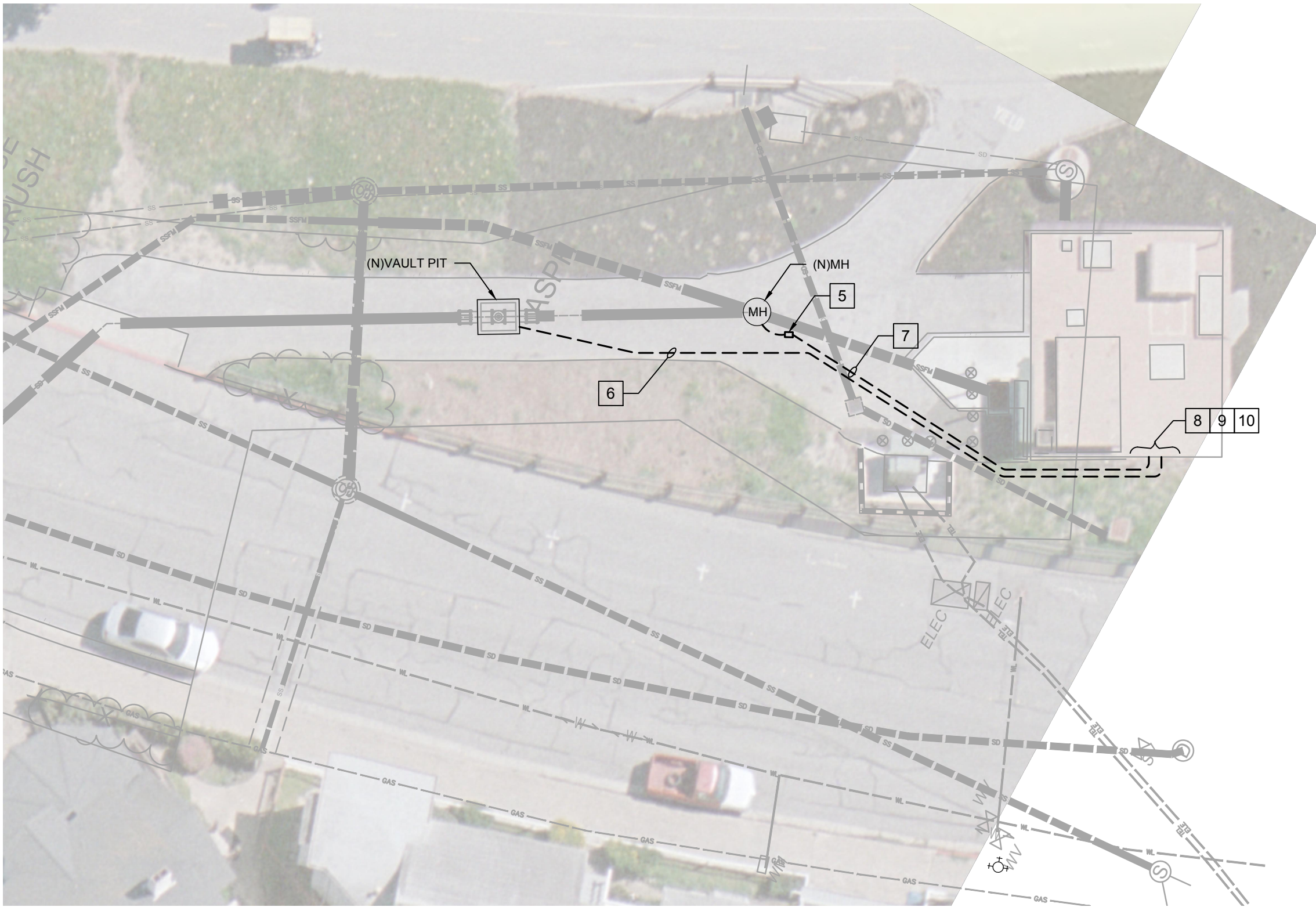
SCALE: AS NOTED

SHEET:

E-3



 **JEWELL AVENUE PLAN**
SCALE: 1/16" = 1'-0"



 **OCEANVIEW BLVD PLAN (LIFT STATION 13)**
SCALE: 1/16" = 1'-0"

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.
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. PROVIDE CONDUIT, WIRE, HANGERS ETC. AS REQUIRED FOR CONNECTION AND OPERATION OF THE MOTOR OPERATED VALVE. COORDINATE WITH MONTEREY ONE REPRESENTATIVE 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.

REVISIONS:	BY:



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

SHEET TITLE:
**LOVERS POINT
LIFT STATION NO. 13
SITE PLAN**

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

E-4



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).

JOB TITLE:
CITY OF PACIFIC GROVE
SEA PALM LIFT STATION 15
LOWERS POINT LIFT STATION 13

ELECTRICAL DETAILS

E-5