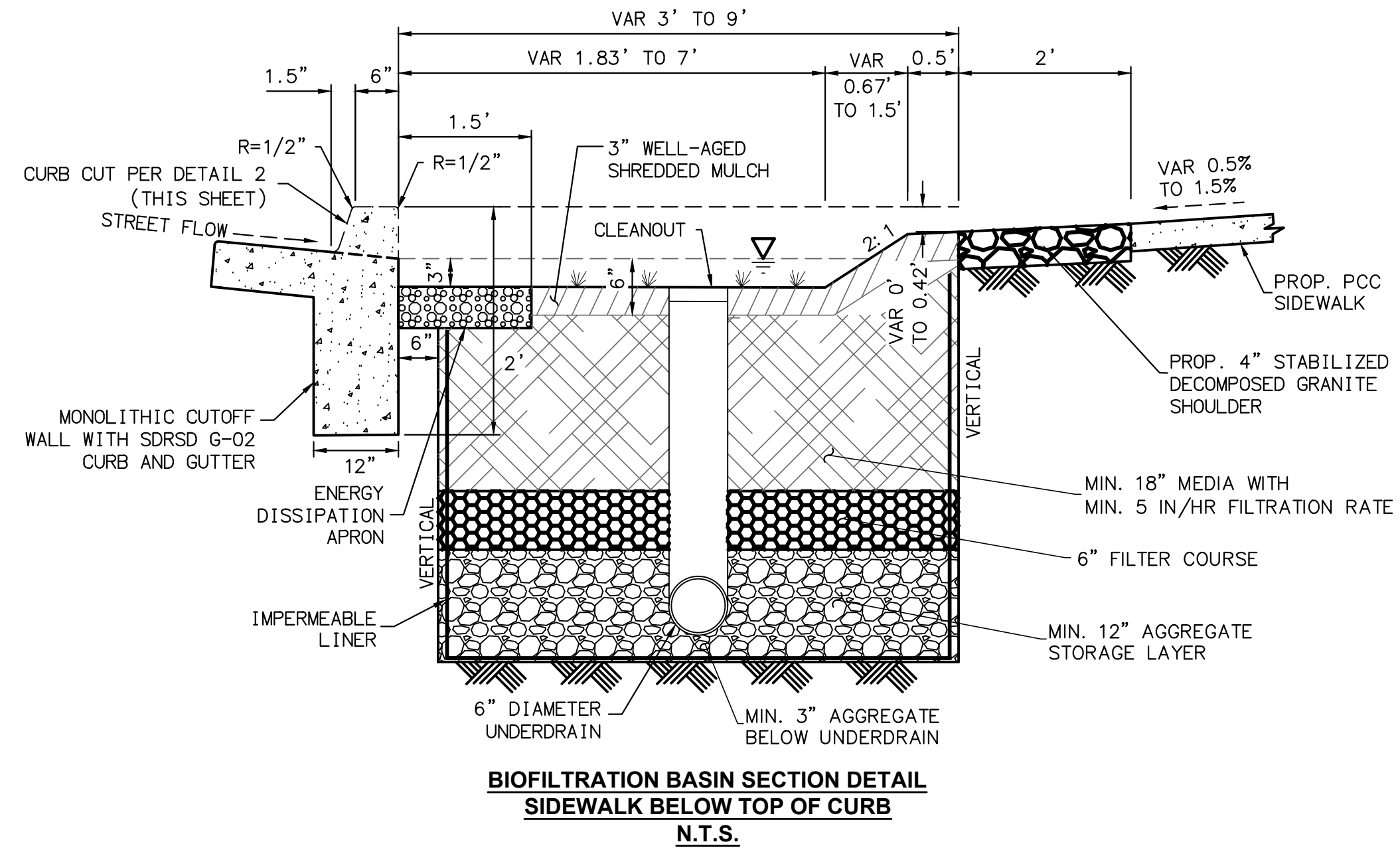
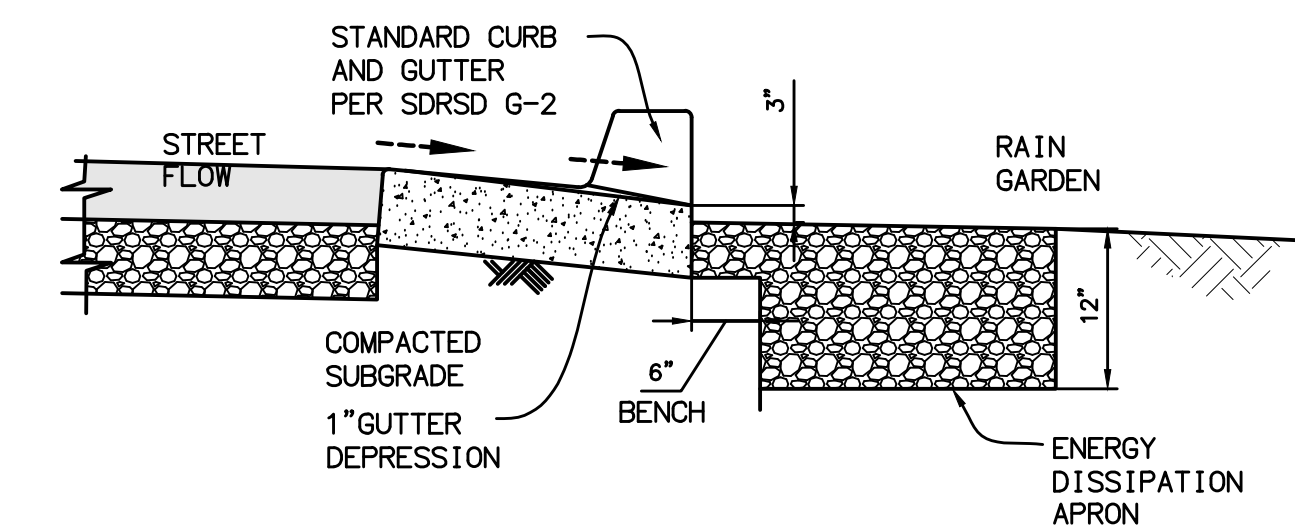
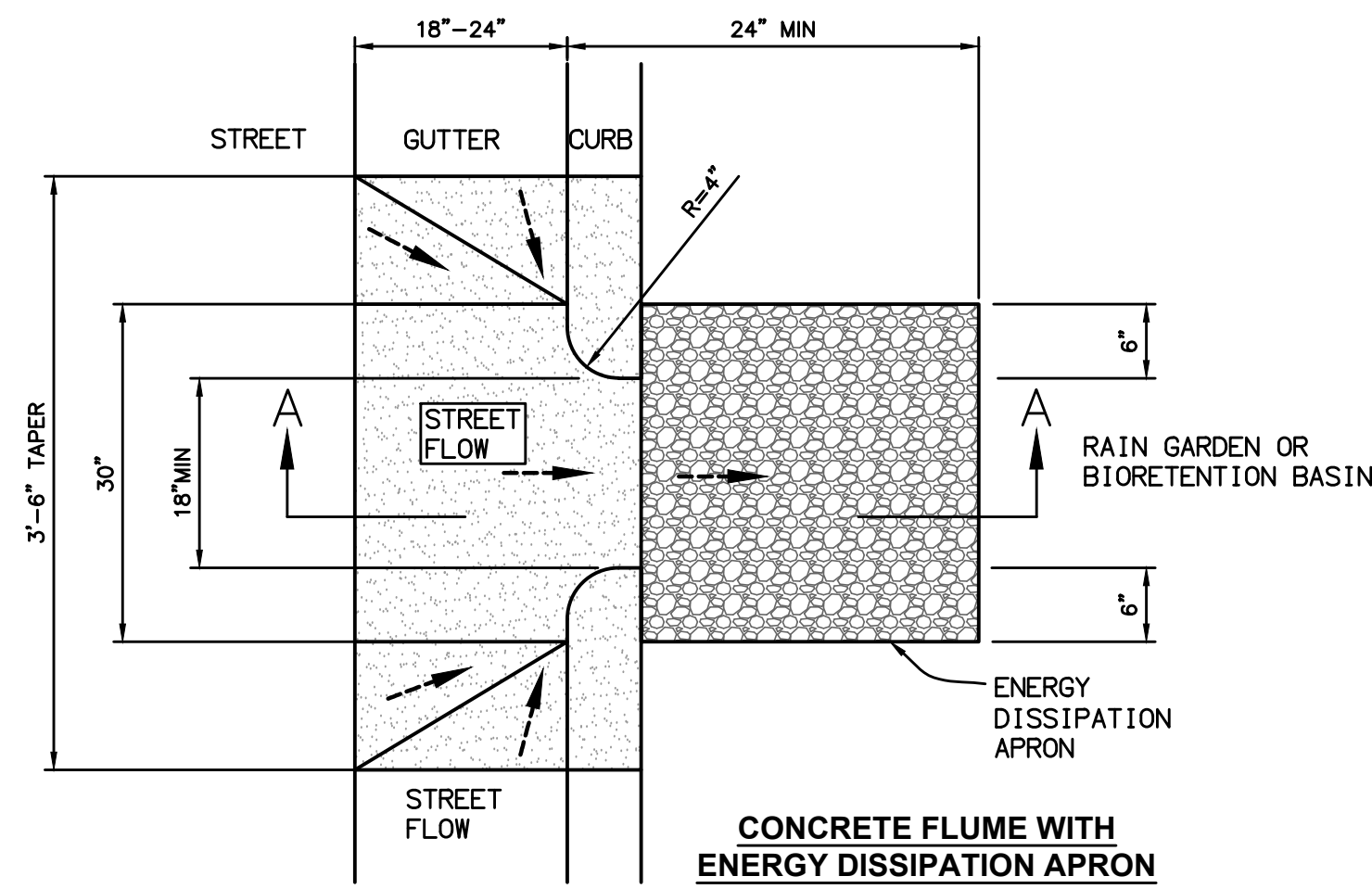


- LOCATIONS**
- STA 14+28.91 TO 15+00.00 (LT)
 - STA 16+75.00 TO 16+91.27 (LT)
 - STA 92+72.59 TO 97+25.97 (LT)

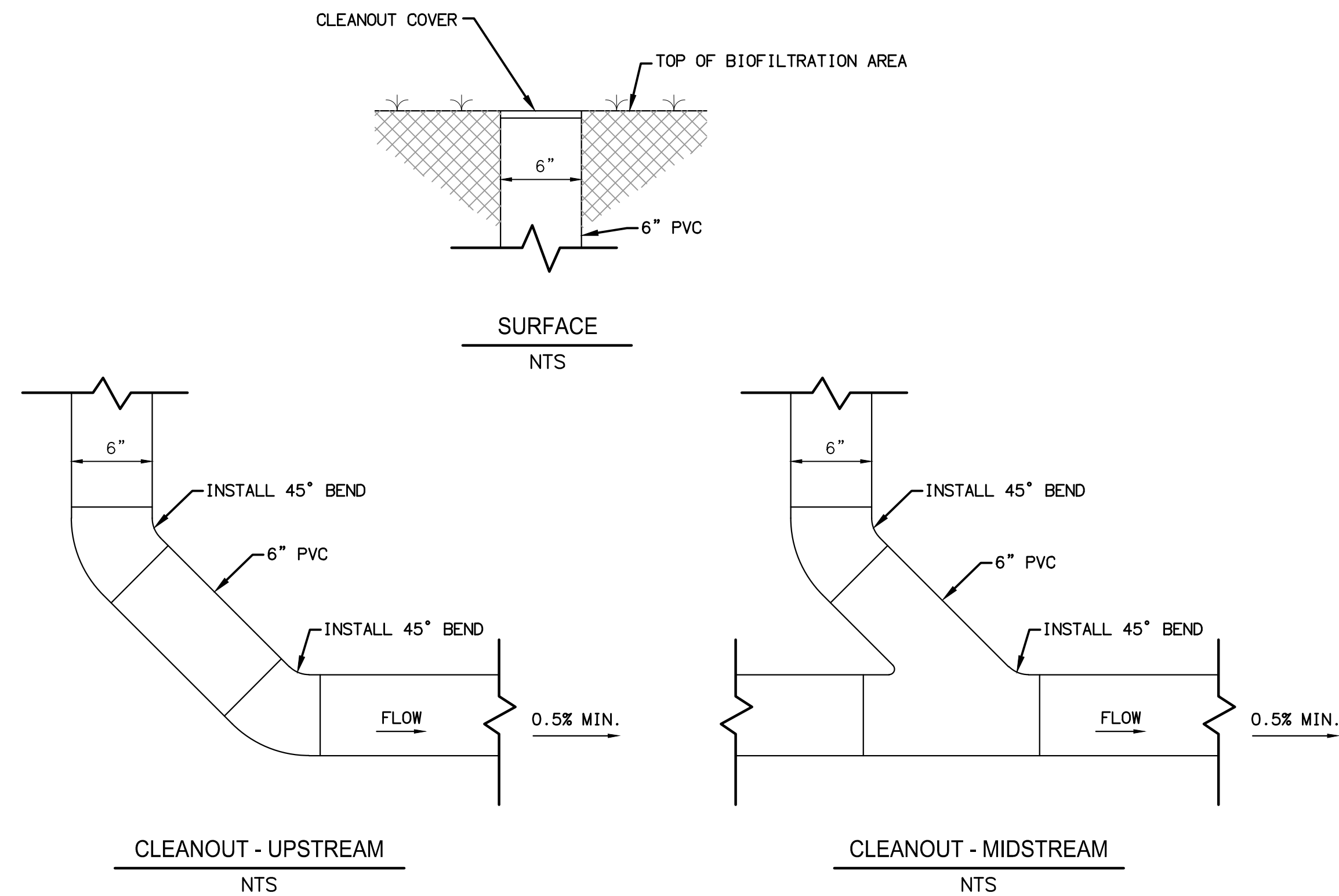


- LOCATIONS**
- STA 15+00.00 TO 16+75.00 (LT)
 - STA 16+75.00 TO 16+91.27 (LT)

1 PLANTER BOX/BIOFILTRATION BASIN DETAIL
N.T.S.



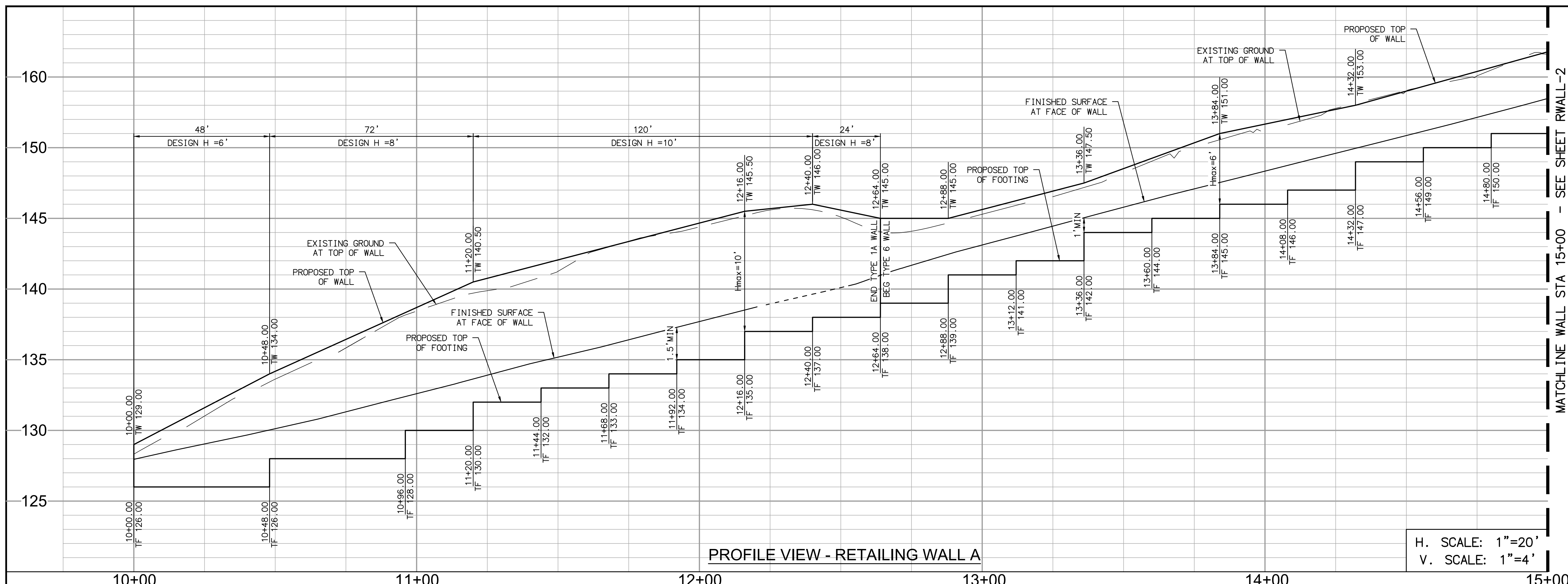
2 CURB CUT DETAIL
N.T.S.



3 BIOFILTRATION AREA CLEANOUT
N.T.S.

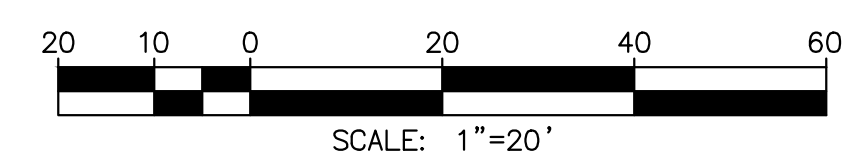
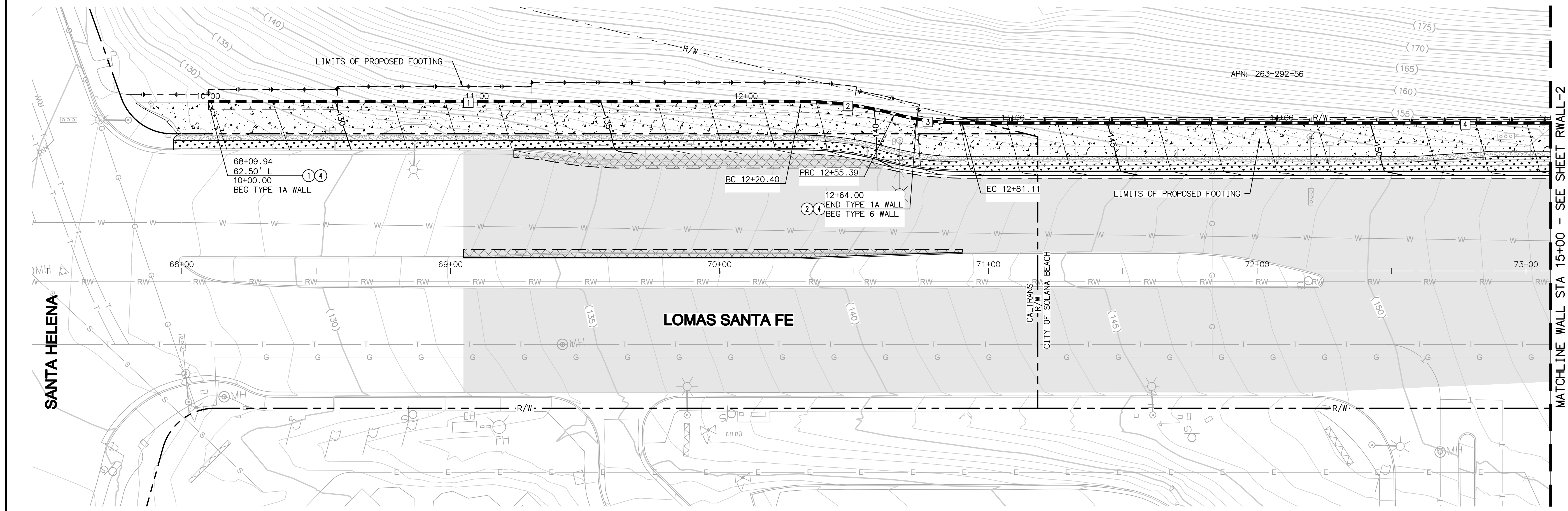
PLAN CODE AS-BUILT
CD-11

By: _____ Date: _____
R.C.E.: _____ Exp: _____



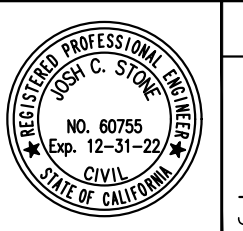
- CONSTRUCTION NOTES**
- CONSTRUCT TYPE 1A (CASE 2) REINFORCED CONCRETE RETAINING WALL PER CALTRANS STD PLAN B3-3B
 - CONSTRUCT TYPE 6A (CASE 2) REINFORCED CONCRETE STEM RETAINING WALL PER CALTRANS STD PLAN B3-7B
 - CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

RETAINING WALL DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N84°43'48"W	--	220.40'	TYPE 1A RET WALL
2	15°11'21"	132.00'	34.99'	TYPE 1A RET WALL
3	15°11'21"	97.00'	25.71'	TYPE 1A RET WALL TYPE 6 RET WALL
4	N84°43'43"W	--	218.89'	TYPE 6 RET WALL



AS-BUILT
By: _____ Date: _____
R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
5050 Avenida Encinas Suite 260 Carlsbad, CA 92008
Phone: (760) 476-9193
MBAKERINTL.COM



ENGINEER OF WORK
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES
APP'D DATE

RECOMMENDED FOR APPROVAL
By: _____ Date: _____
By: _____ Date: _____

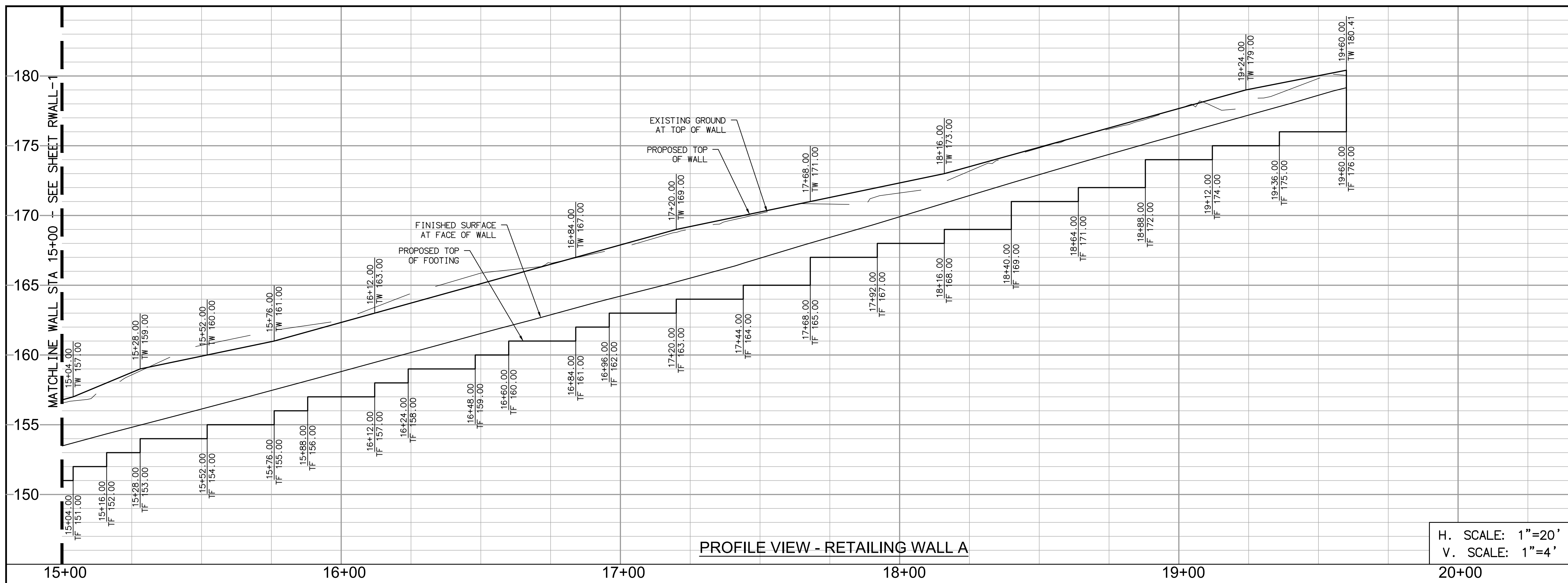
APPROVED FOR CONSTRUCTION
By: _____ Date: _____
Mohammad Sammak, City Engineer
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK
DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH ENGINEERING DEPARTMENT
IMPROVEMENT PLANS FOR: RETAINING WALL PLAN & PROFILE
LOMAS SANTA FE CORRIDOR

DRAWING NO. **CG-3185**
Sheet 38 of 73

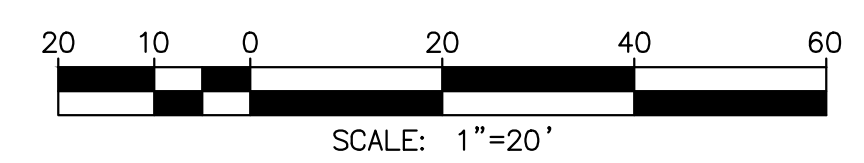
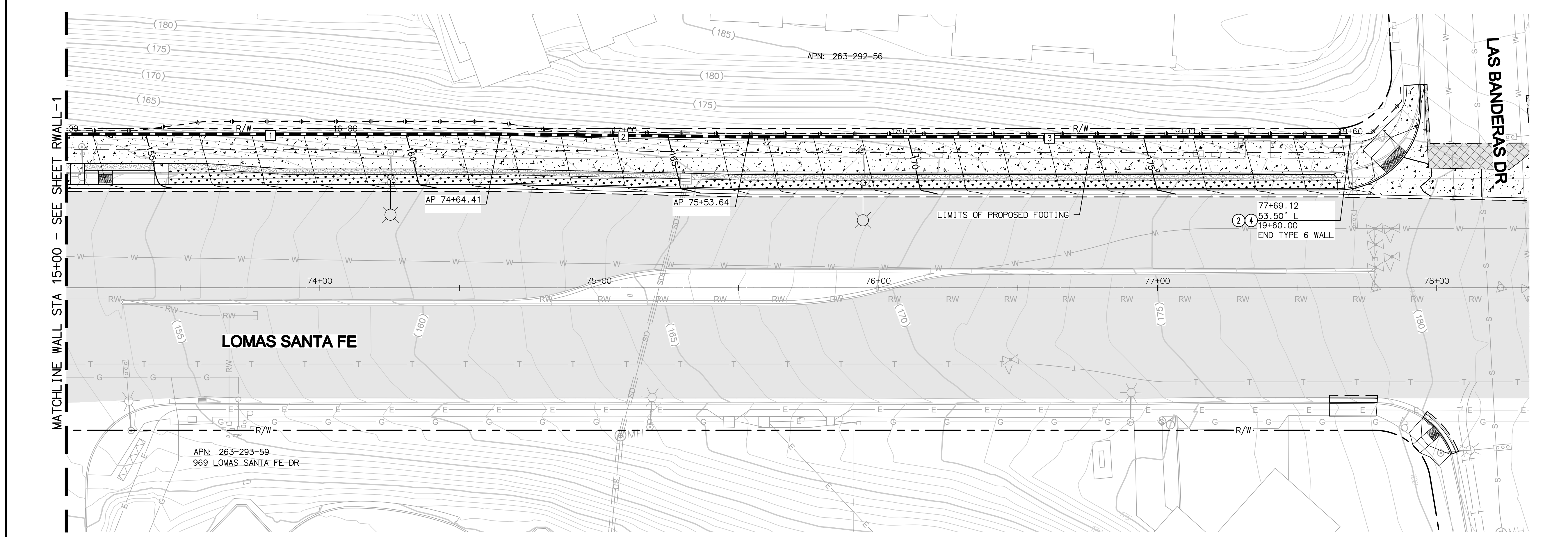
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- CONSTRUCTION NOTES**
- ② CONSTRUCT TYPE 6A (CASE 2) REINFORCED CONCRETE STEM RETAINING WALL PER CALTRANS STD PLAN B3-7B
 - ④ CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

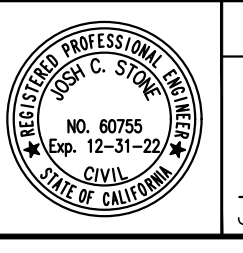
RETAINING WALL DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N84°43'43"W	--	374.07'	TYPE 6 RET WALL
2	N84°05'34"W	--	89.91'	TYPE 6 RET WALL
3	N84°43'48"W	--	215.49'	TYPE 6 RET WALL



AS-BUILT
By: _____ Date: _____
PLAN CODE
RWALL-2 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
5050 Avenida Encinas
Suite 260
Carlsbad, CA 92008
Phone: (760) 476-9193
MBAKERINTL.COM



ENGINEER OF WORK
JOSH C. STONE RCE 60755 DATE _____

CITY APPROVED CHANGES
APP'D DATE _____

RECOMMENDED FOR APPROVAL
By: _____ Date: _____
By: _____ Date: _____

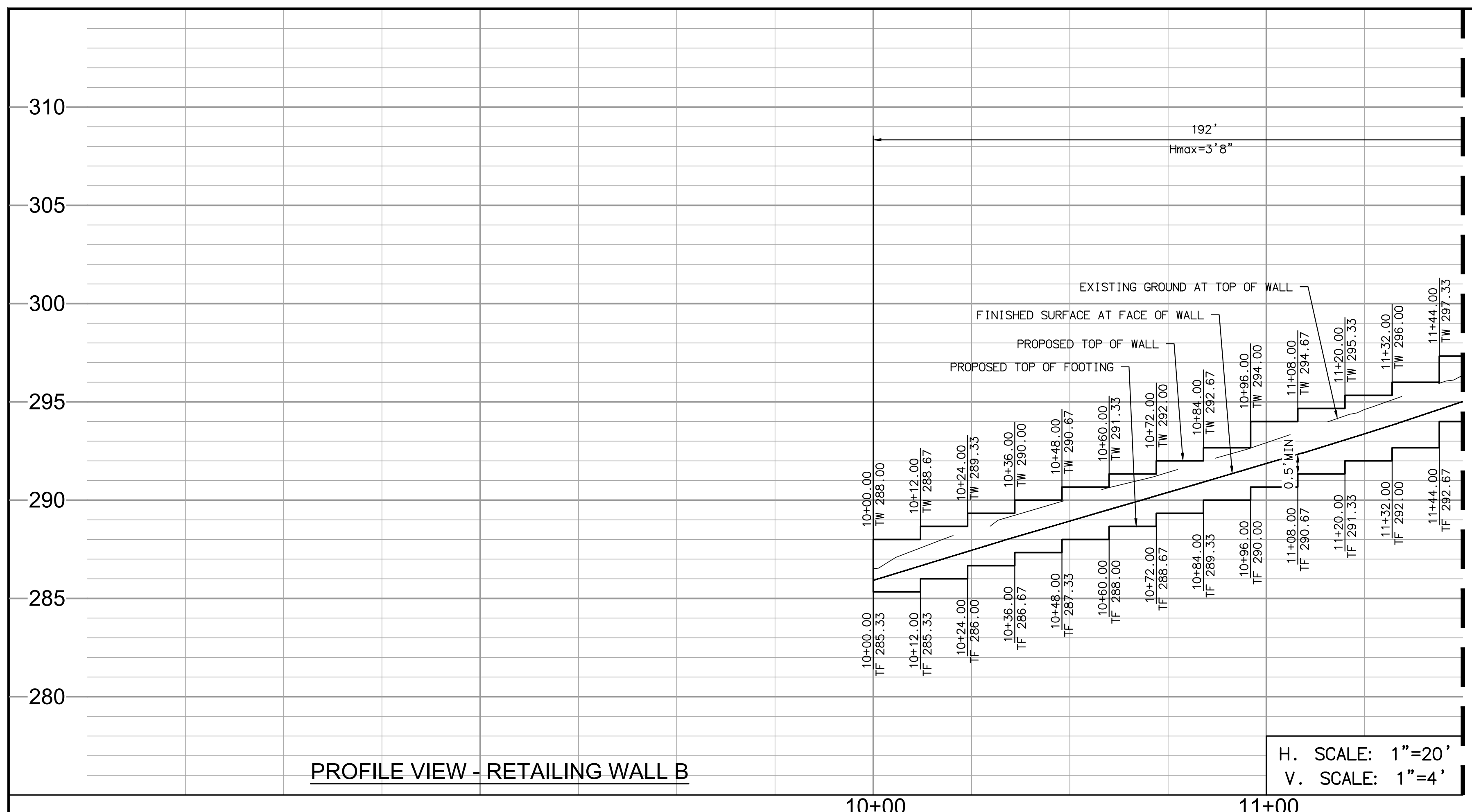
APPROVED FOR CONSTRUCTION
By: _____ Date: _____
Mohammad Sammak, City Engineer
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK
DESCRIPTION: _____
LOCATION: _____
ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH ENGINEERING DEPARTMENT
IMPROVEMENT PLANS FOR: RETAINING WALL PLAN & PROFILE
LOMAS SANTA FE CORRIDOR

DRAWING NO.
CG-3185
Sheet 39 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



PROFILE VIEW - RETAINING WALL B

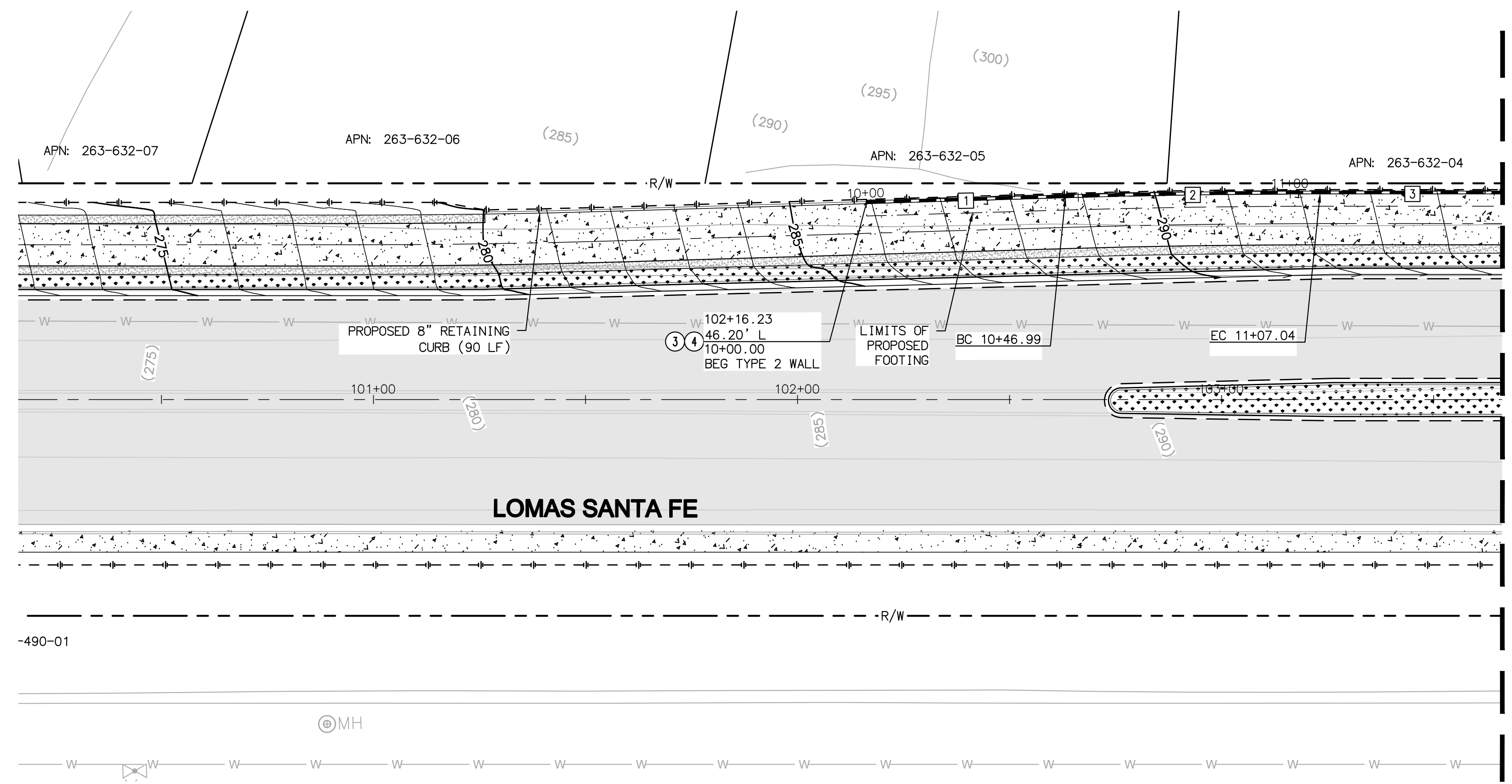
H. SCALE: 1"=20'
V. SCALE: 1"=4'

CONSTRUCTION NOTES

- ③ CONSTRUCT TYPE 2 MASONRY WALL PER SDRSD C-02
- ④ CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

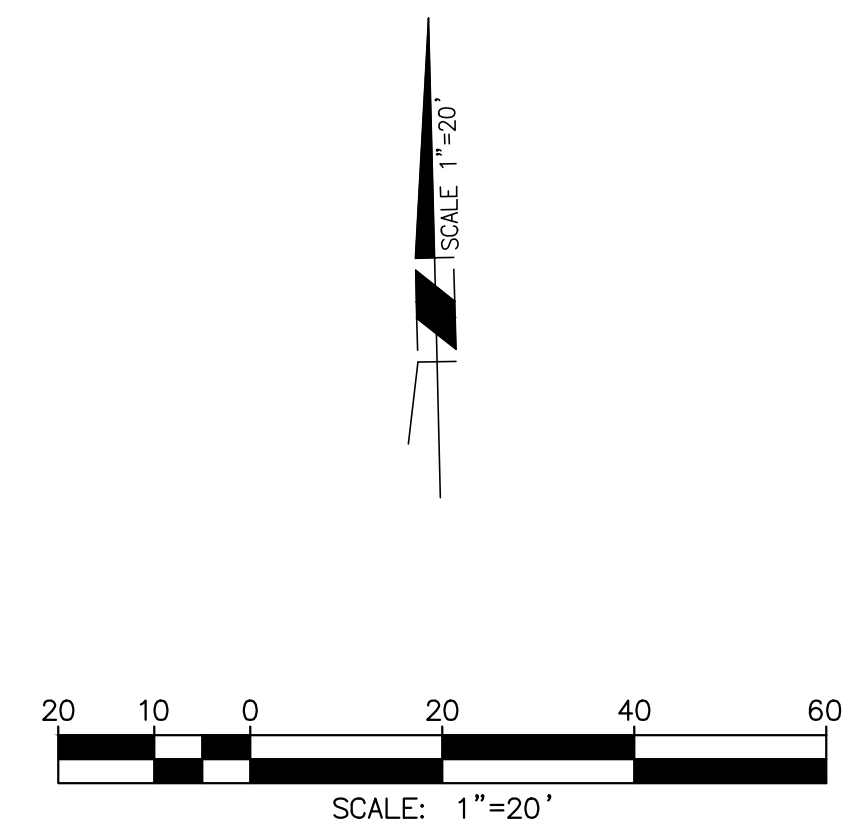
RETAINING WALL DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N89°40'39"E	--	46.99'	TYPE 2 RET WALL
2	01°42'51"W	2007.00'	60.05'	TYPE 2 RET WALL
3	N88°36'30"W	--	42.96'	TYPE 2 RET WALL



PLAN VIEW - RETAINING WALL B

SCALE: 1"=20'

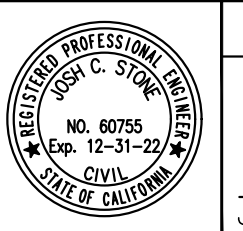


AS-BUILT

PLAN CODE
RWALL-3

By: _____ Date: _____
R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
5050 Avenida Encinas
Suite 260
Carlsbad, CA 92008
Phone: (760) 476-9193
MBAKERINTL.COM



ENGINEER OF WORK
JOSH C. STONE RCE 60755 DATE _____

CITY APPROVED CHANGES
APP'D DATE _____

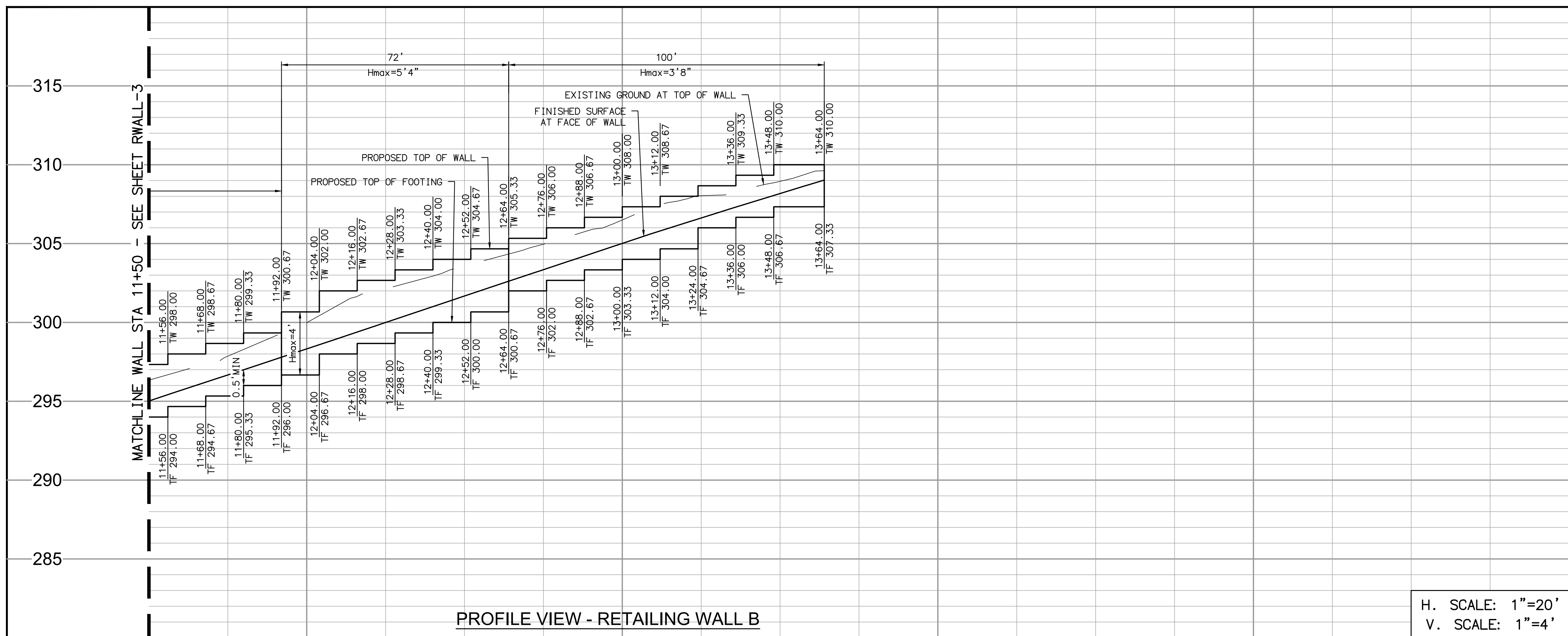
RECOMMENDED FOR APPROVAL
By: _____ Date: _____

APPROVED FOR CONSTRUCTION
By: Mohammad Sammak, City Engineer
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK
DESCRIPTION: _____
LOCATION: _____
ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH
IMPROVEMENT PLANS FOR:
LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT
RETAINING WALL PLAN & PROFILE
DRAWING NO.
CG-3185
Sheet 40 of 73

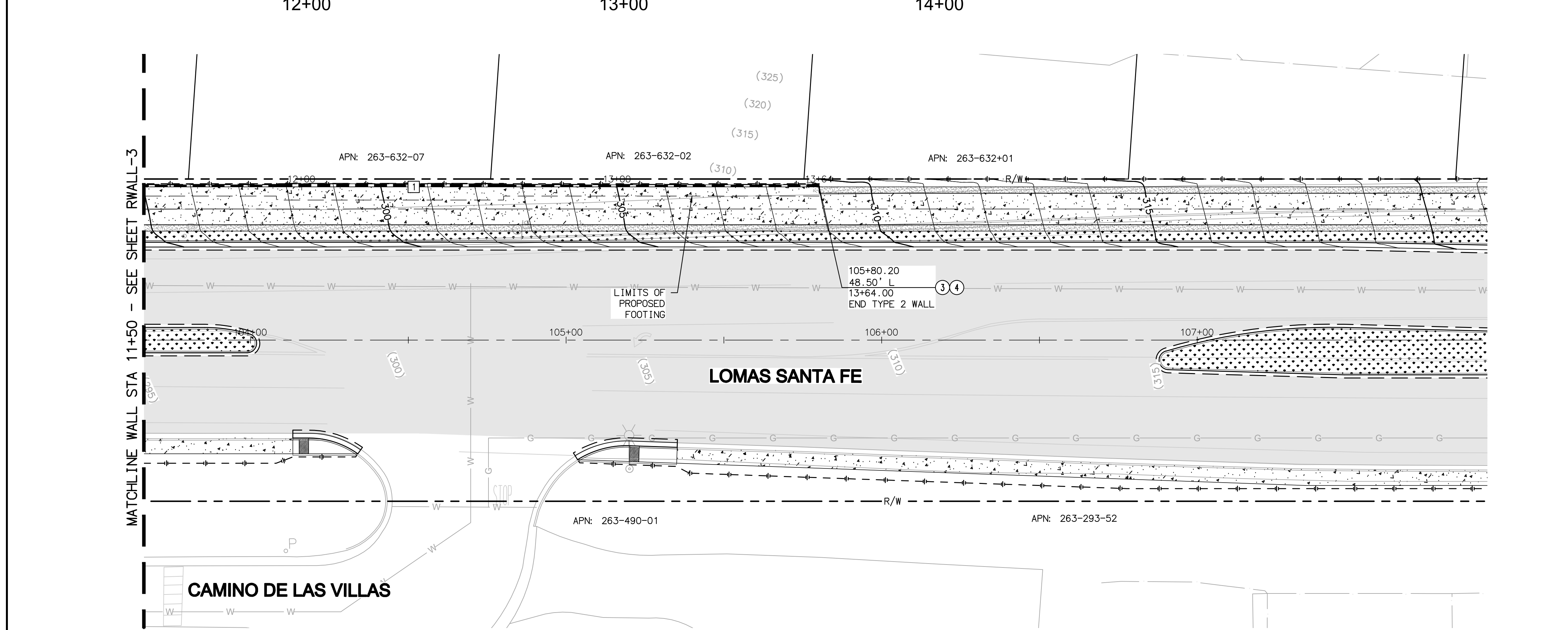


PROFILE VIEW - RETAINING WALL B

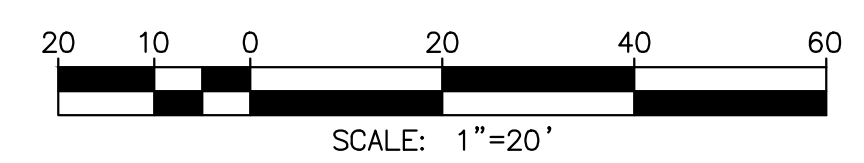
H. SCALE: 1"=20'
V. SCALE: 1"=4'

- CONSTRUCTION NOTES**
- ③ CONSTRUCT TYPE 2 MASONRY WALL PER SDRSD C-02
 - ④ CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

RETAINING WALL DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N88°36'30"W	--	214.00'	TYPE 2 RET WALL

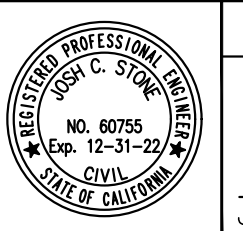


PLAN VIEW - RETAINING WALL B
SCALE: 1"=20'



AS-BUILT
By: _____ Date: _____
R.WALL-4 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
5050 Avenida Encinas Suite 260 Carlsbad, CA 92008
Phone: (760) 476-9193
MBAKERINTL.COM



ENGINEER OF WORK
JOSH C. STONE RCE 60755 DATE _____

CITY APPROVED CHANGES	APP'D	DATE

RECOMMENDED FOR APPROVAL
By: _____ Date: _____
By: _____ Date: _____

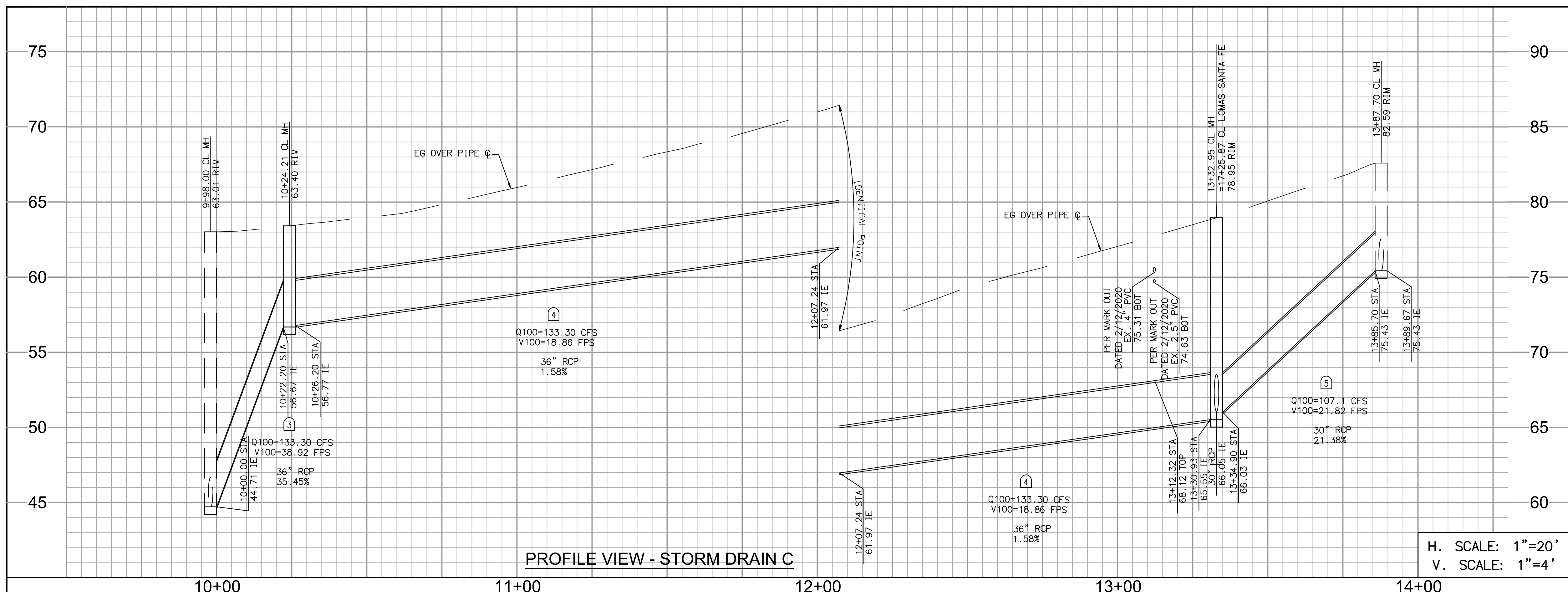
APPROVED FOR CONSTRUCTION
By: _____ Date: _____
Mohammad Sammak, City Engineer
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK
DESCRIPTION: _____
LOCATION: _____
ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH ENGINEERING DEPARTMENT
IMPROVEMENT PLANS FOR: RETAINING WALL PLAN & PROFILE
LOMAS SANTA FE CORRIDOR

DRAWING NO. **CG-3185**
Sheet 41 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

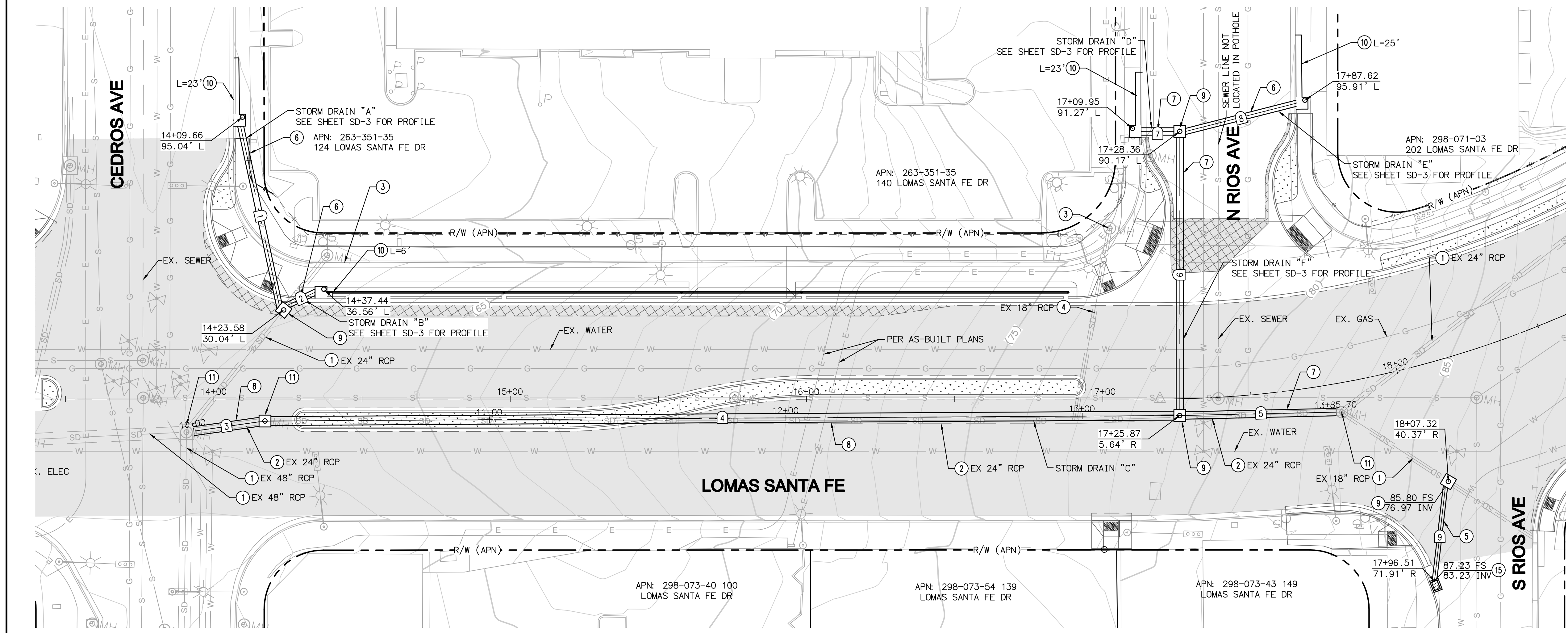


PROFILE VIEW - STORM DRAIN C

H. SCALE: 1"=20'
V. SCALE: 1"=4'

STORM DRAIN NOTE
ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
 - 2 REMOVE EXISTING STORM DRAIN PIPE
 - 3 REMOVE EXISTING STORM DRAIN INLET
 - 4 ABANDON EXISTING STORM DRAIN PIPE
 - 5 INSTALL 18" RCP STORM DRAIN
 - 6 INSTALL 24" RCP STORM DRAIN
 - 7 INSTALL 30" RCP STORM DRAIN
 - 8 INSTALL 36" RCP STORM DRAIN
 - 9 CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
 - 10 CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
 - 11 CONNECT PROPOSED STORM DRAIN TO EXISTING CLEANOUT
 - 15 CONSTRUCT TYPE G-1 CATCH BASIN PER SDRSD D-08

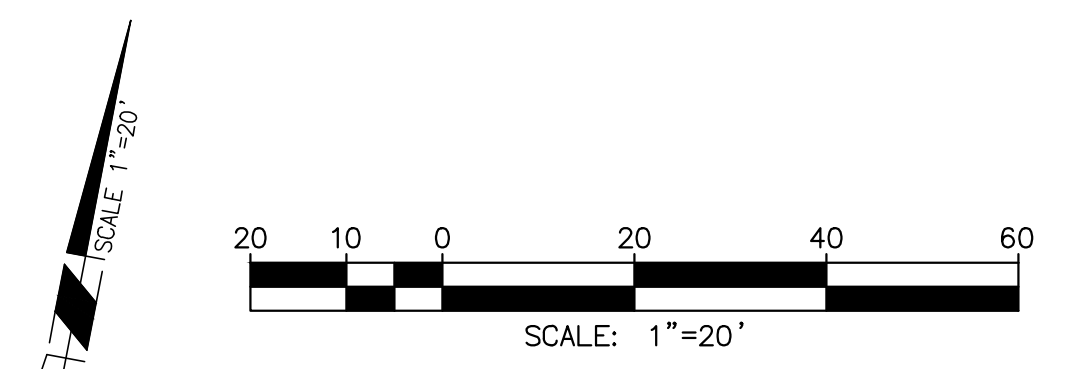


PLAN VIEW - STORM DRAINS "A-F"

SCALE: 1"=20'

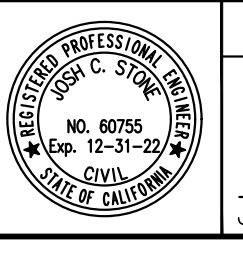
STORM DRAIN DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N23°04'23"W	---	62.01'	24" RCP ~ CLASS II
2	N53°54'50"E	---	10.33'	24" RCP ~ CLASS II
3	N71°00'28"E	---	22.20'	36" RCP ~ CLASS IV
4	N78°46'07"E	---	304.73'	36" RCP ~ CLASS III
5	N77°51'19"E	---	50.75'	30" RCP ~ CLASS III
6	N10°53'07"W	---	90.96'	30" RCP ~ CLASS III
7	N79°06'00"E	---	11.02'	30" RCP ~ CLASS II
8	N63°34'09"E	---	38.79'	24" RCP ~ CLASS II
9	N04°15'57"W	---	32.10'	18" RCP ~ CLASS II



AS-BUILT
PLAN CODE SD-1
By: _____ Date: _____
R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
5050 Avenida Encinas Suite 260 Carlsbad, CA 92008
Phone: (760) 476-9193
mbakerintl.com



ENGINEER OF WORK
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES
APP'D DATE

RECOMMENDED FOR APPROVAL
By: _____ Date: _____
By: _____ Date: _____

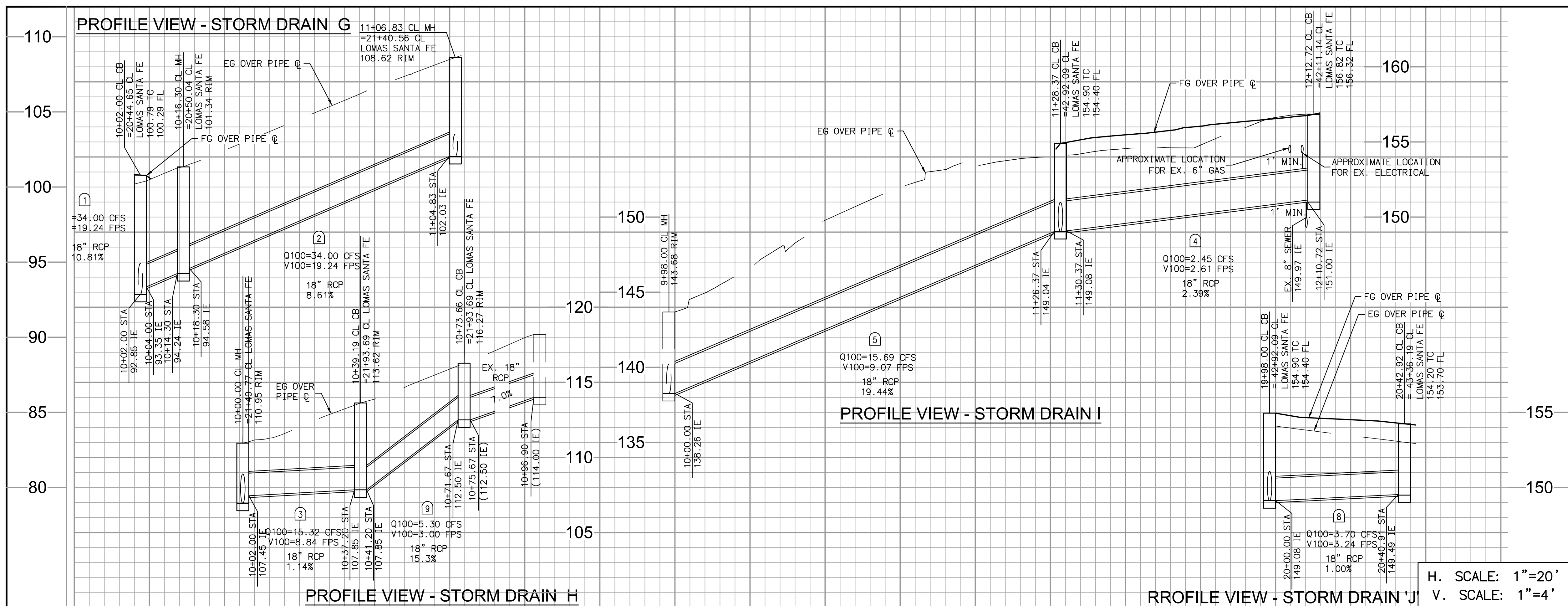
APPROVED FOR CONSTRUCTION
By: _____ Date: _____
Mohammad Sammak, City Engineer
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK
DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH
IMPROVEMENT PLANS FOR:
LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT
DRAINAGE PLAN & PROFILE
DRAWING NO. **CG-3185**
Sheet 42 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



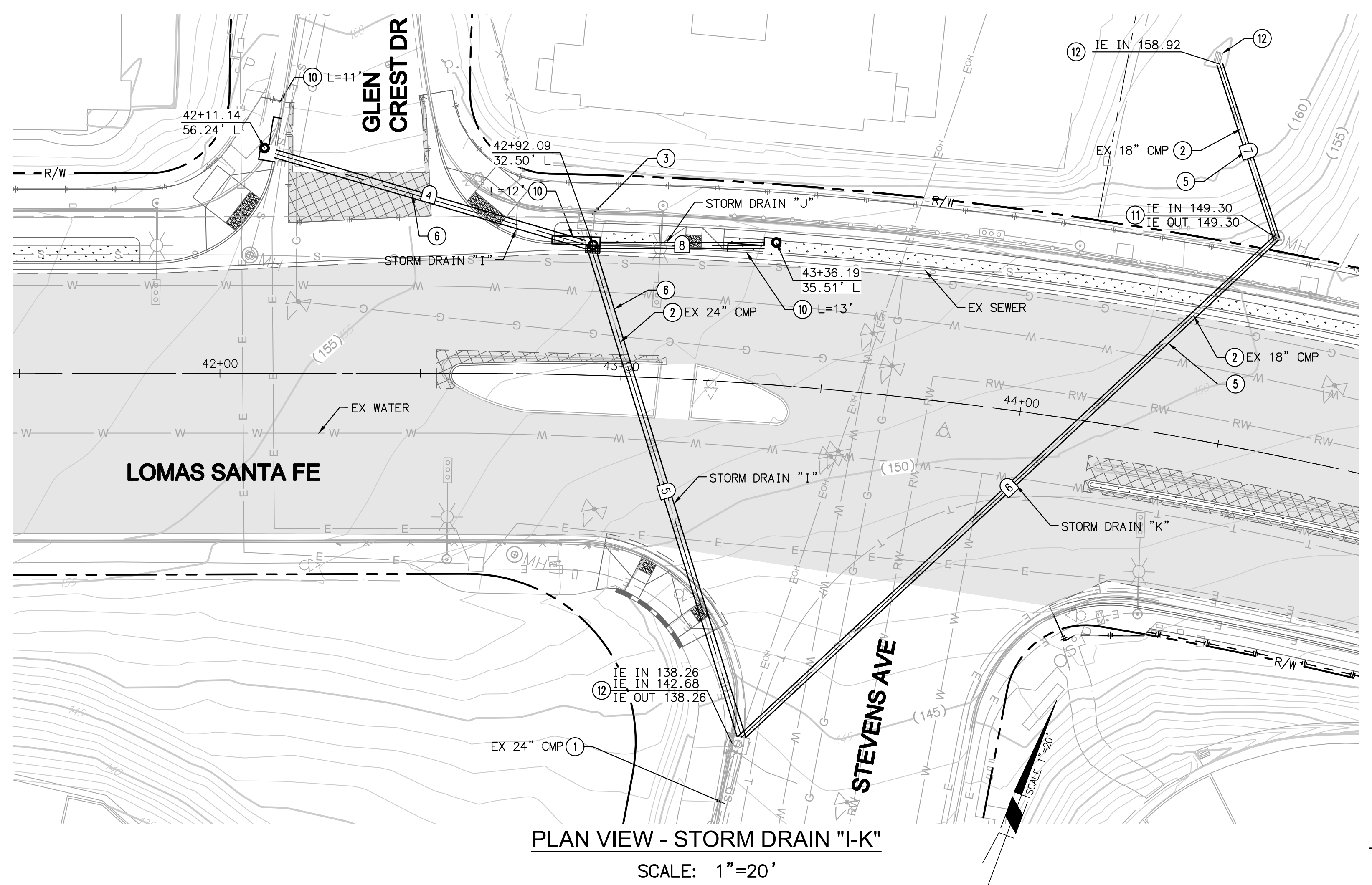
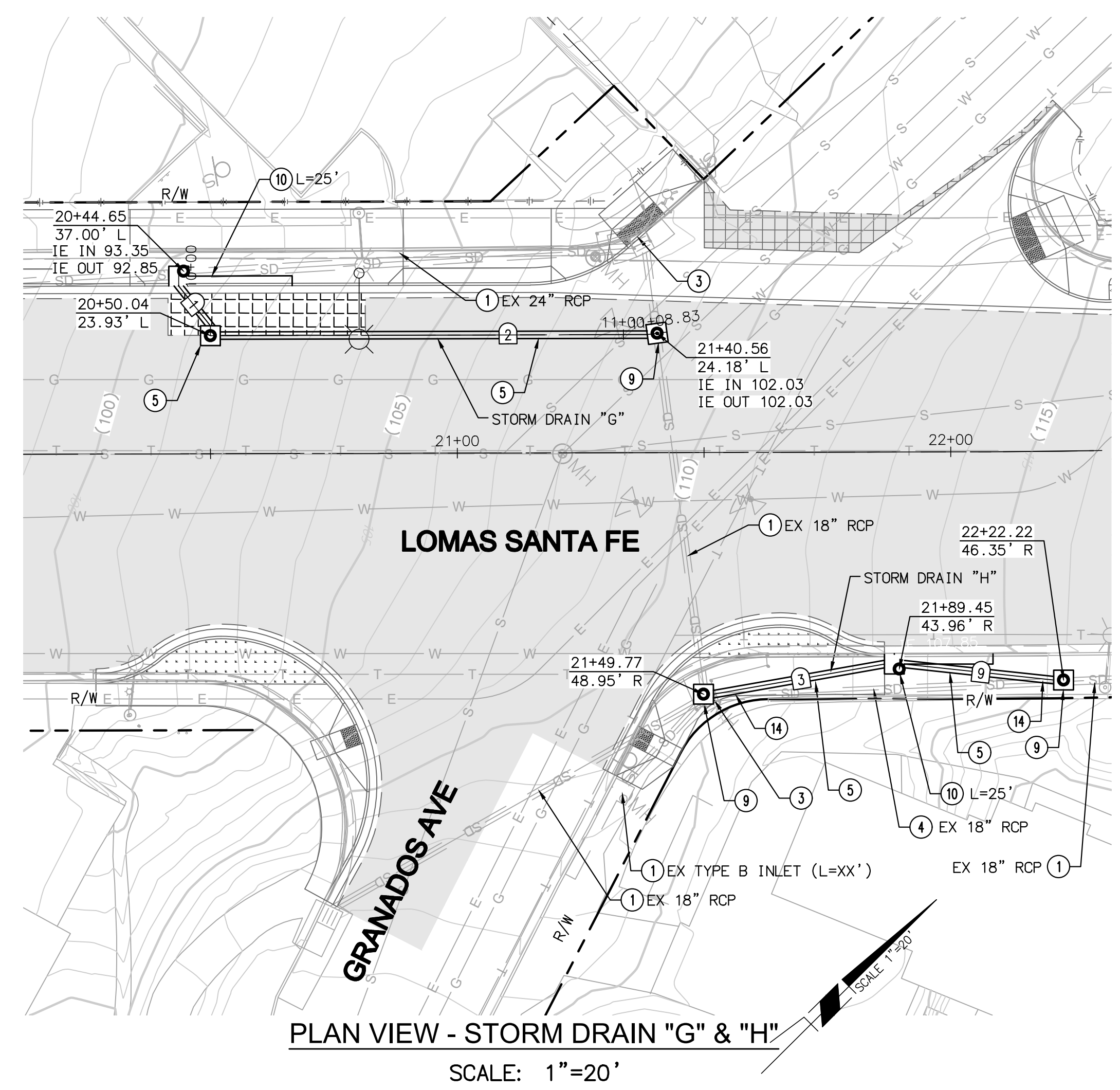
STORM DRAIN NOTE
 ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

CONSTRUCTION NOTES

- PROTECT IN PLACE
- REMOVE EXISTING STORM DRAIN INLET
- ABANDON EXISTING STORM DRAIN PIPE
- INSTALL 18" RCP STORM DRAIN
- CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
- CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
- REMOVE PORTION OF EXISTING STORM DRAIN IN CONFLICT WITH THE PROPOSED STORM DRAIN

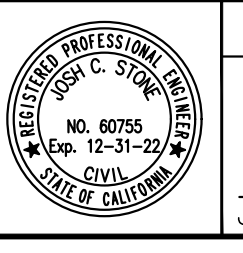
STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N83°47'25"W	---	12.86'	18" RCP ~ CLASS II
2	N44°37'47"E	---	86.53'	18" RCP ~ CLASS II
3	N34°48'32"E	---	35.20'	18" RCP ~ CLASS II
4	N84°45'35"E	---	79.22'	24" RCP ~ CLASS II
5	N37°25'05"W	---	128.48'	24" RCP ~ CLASS II
6	N26°37'34"E	---	182.47'	18" RCP ~ CLASS II
7	N38°21'45"W	---	45.64'	18" RCP ~ CLASS II
8	N69°47'48"E	---	40.91'	18" RCP ~ CLASS II
9	N50°53'20"E	---	30.50'	18" RCP ~ CLASS II

H. SCALE: 1"=20'
 V. SCALE: 1"=4'



AS-BUILT
 PLAN CODE: SD-2
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
 5050 Avenida Encinas Suite 260 Carlsbad, CA 92008
 Phone: (760) 476-9193
 M.BAKERINTL.COM



ENGINEER OF WORK
 JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES
 APP'D DATE

RECOMMENDED FOR APPROVAL
 By: _____ Date: _____

APPROVED FOR CONSTRUCTION
 By: Mohammad Sammak, City Engineer
 R.C.E.: 37146 Exp: 6/30/22

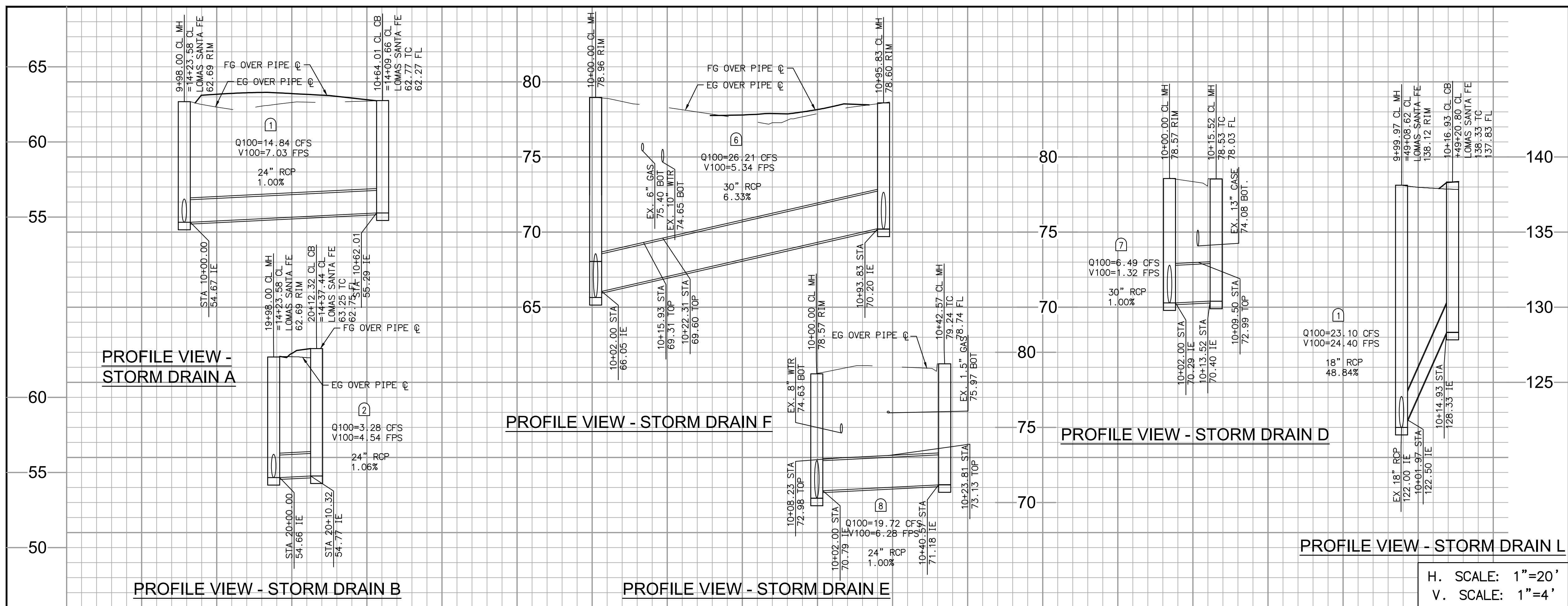
BENCH MARK
 DESCRIPTION: _____
 LOCATION: _____
 ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH
 IMPROVEMENT PLANS FOR:
 LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT
 DRAINAGE PLAN & PROFILE

DRAWING NO.
CG-3185
 Sheet 43 of 73

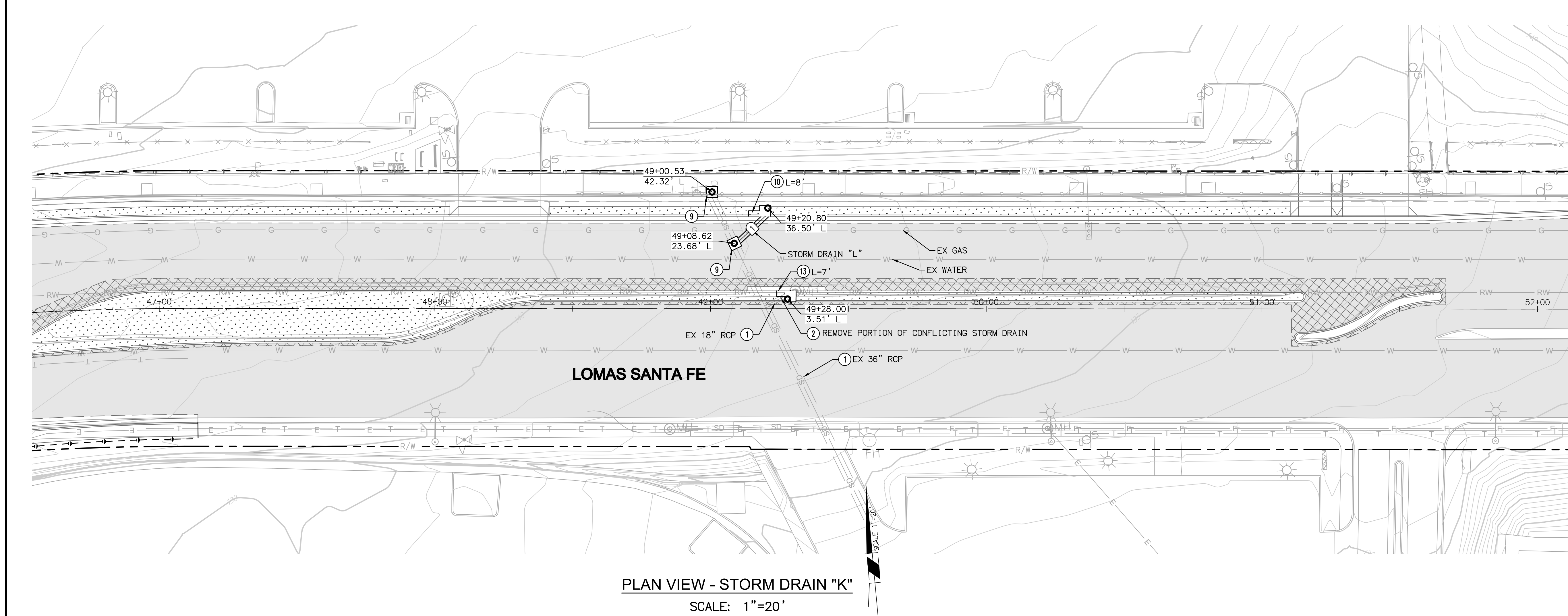
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



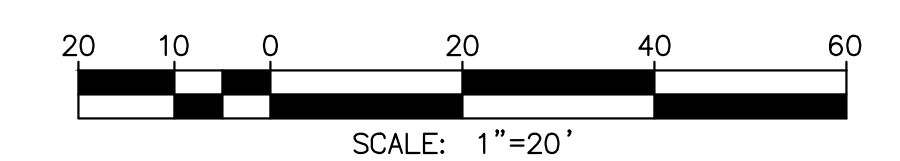
STORM DRAIN NOTE
 ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

- CONSTRUCTION NOTES**
- ① PROTECT IN PLACE
 - ② REMOVE EXISTING STORM DRAIN PIPE
 - ⑨ CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
 - ⑩ CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
 - ⑬ CONSTRUCT TYPE J MEDIAN INLET WITH 4' WING PER SDRSD D-45.

H. SCALE: 1"=20'
 V. SCALE: 1"=4'

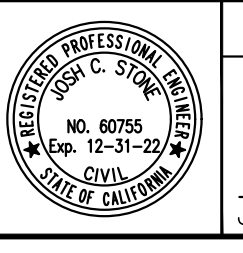


STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N51°38'31"E	---	12.96'	18" RCP ~ CLASS III



AS-BUILT
PLAN CODE By: _____ Date: _____
 SD-3 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
 5050 Avenida Encinas
 Suite 260
 Carlsbad, CA 92008
 Phone: (760) 476-9193
 MBIKERINTL.COM



ENGINEER OF WORK
 JOSH C. STONE RCE 60755 DATE _____

CITY APPROVED CHANGES
 APP'D DATE _____

RECOMMENDED FOR APPROVAL
 By: _____ Date: _____
 By: _____ Date: _____

APPROVED FOR CONSTRUCTION
 By: _____ Date: _____
 Mohammad Sammak, City Engineer
 R.C.E.: 37146 Exp: 6/30/22

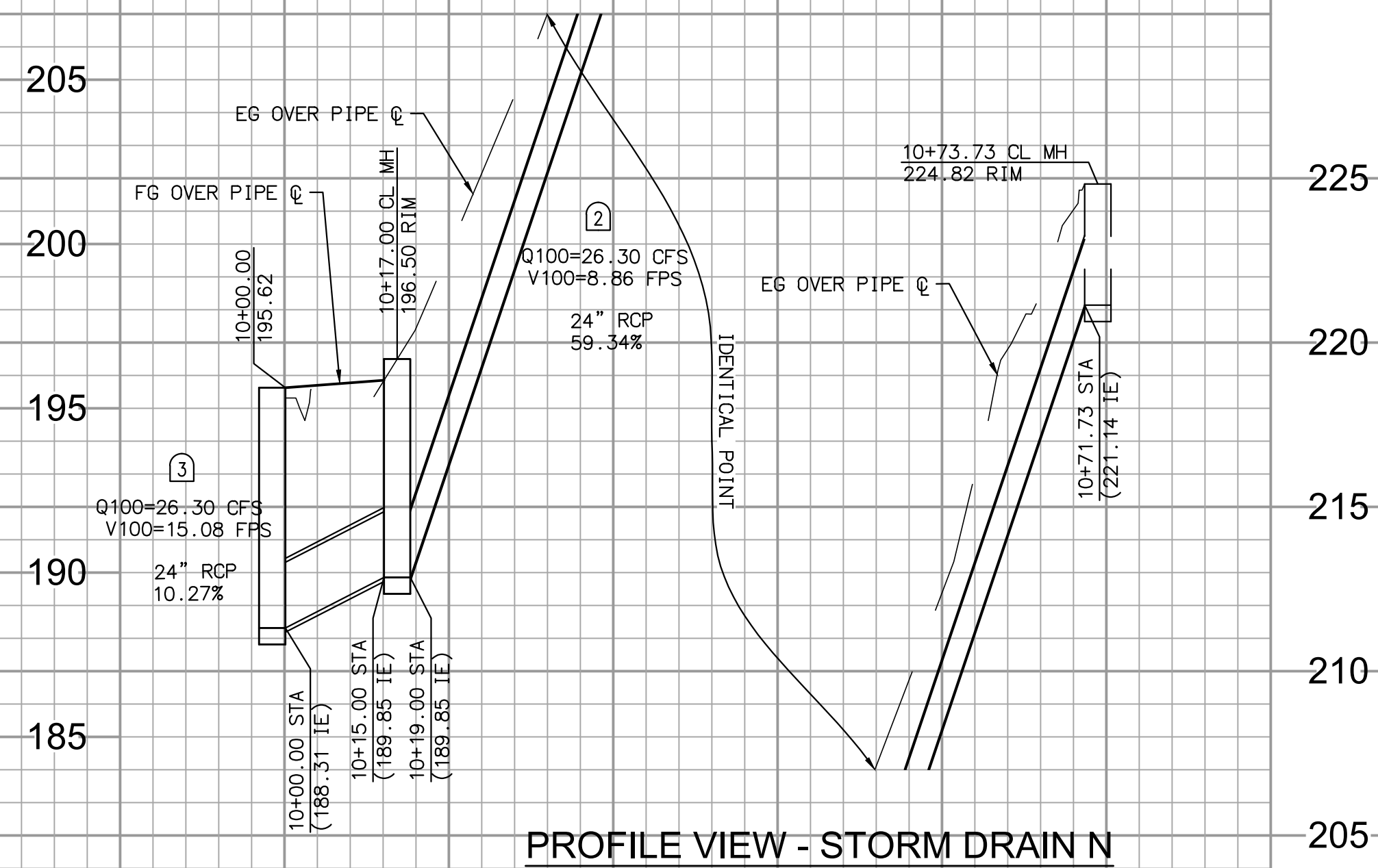
BENCH MARK
 DESCRIPTION: _____
 LOCATION: _____
 ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH
 IMPROVEMENT PLANS FOR:
LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT
 DRAINAGE PLAN & PROFILE
CG-3185
 Drawing No. Sheet 44 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

H. SCALE: 1"=20'
V. SCALE: 1"=4'



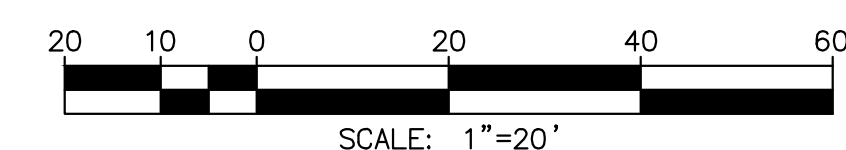
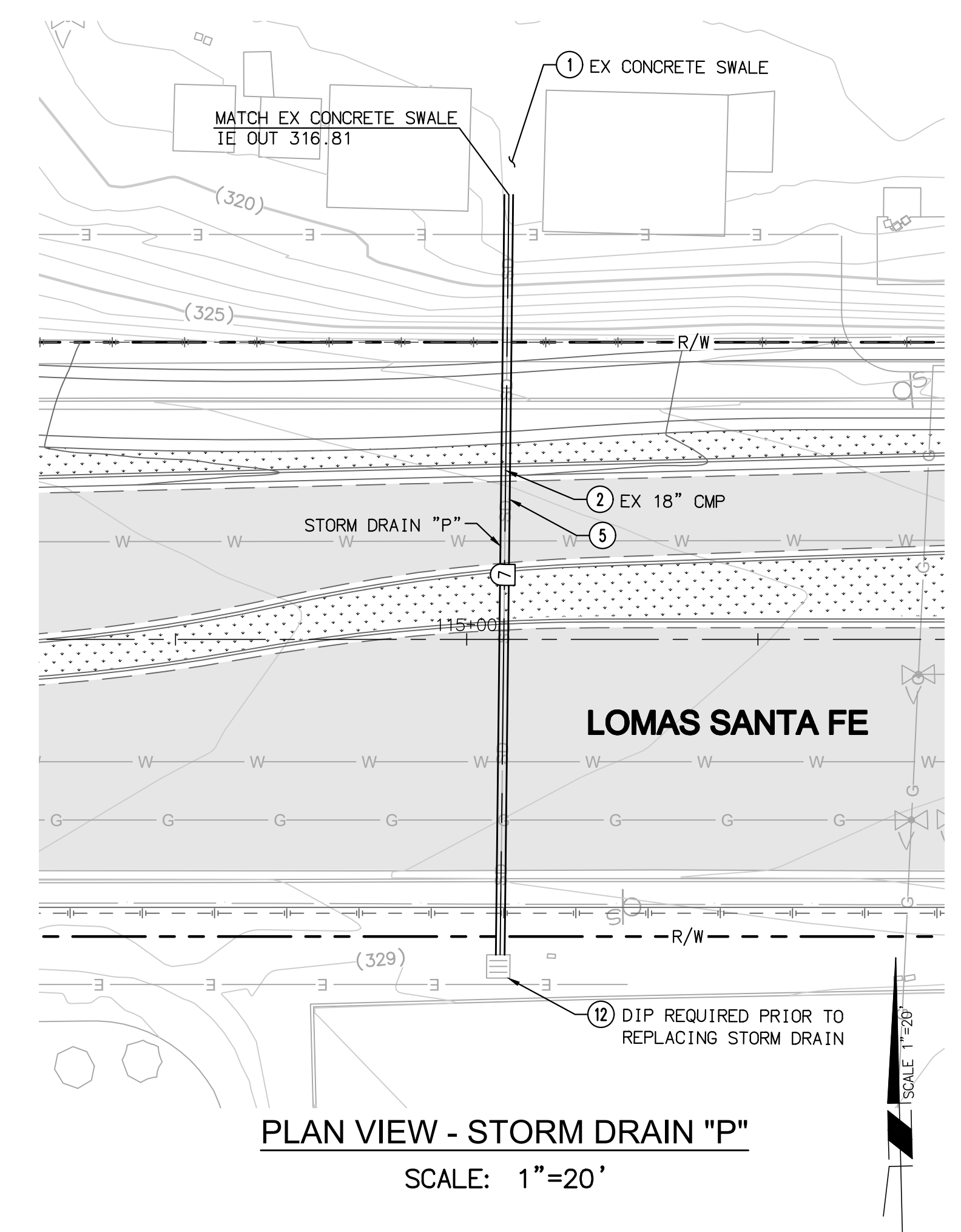
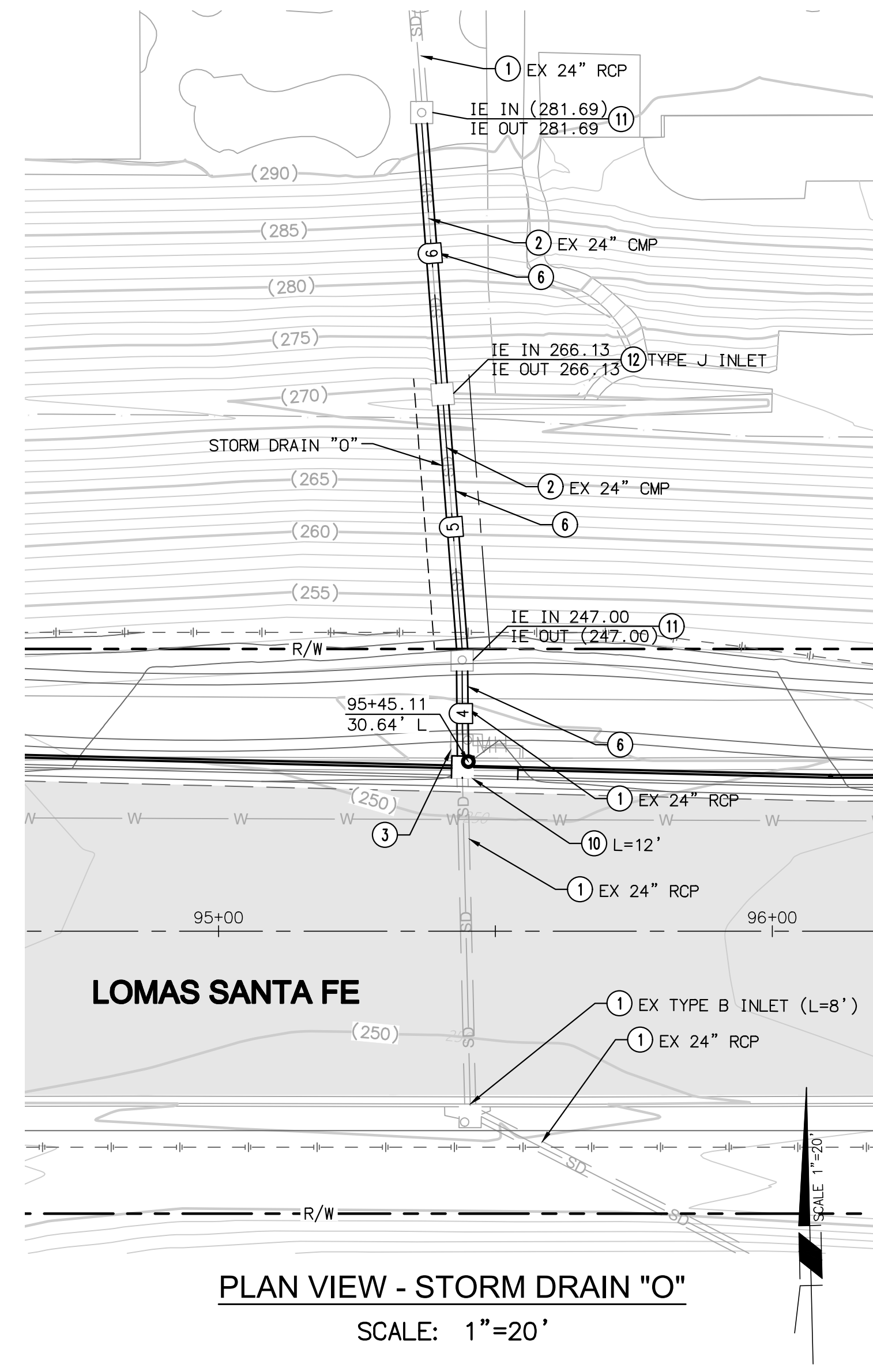
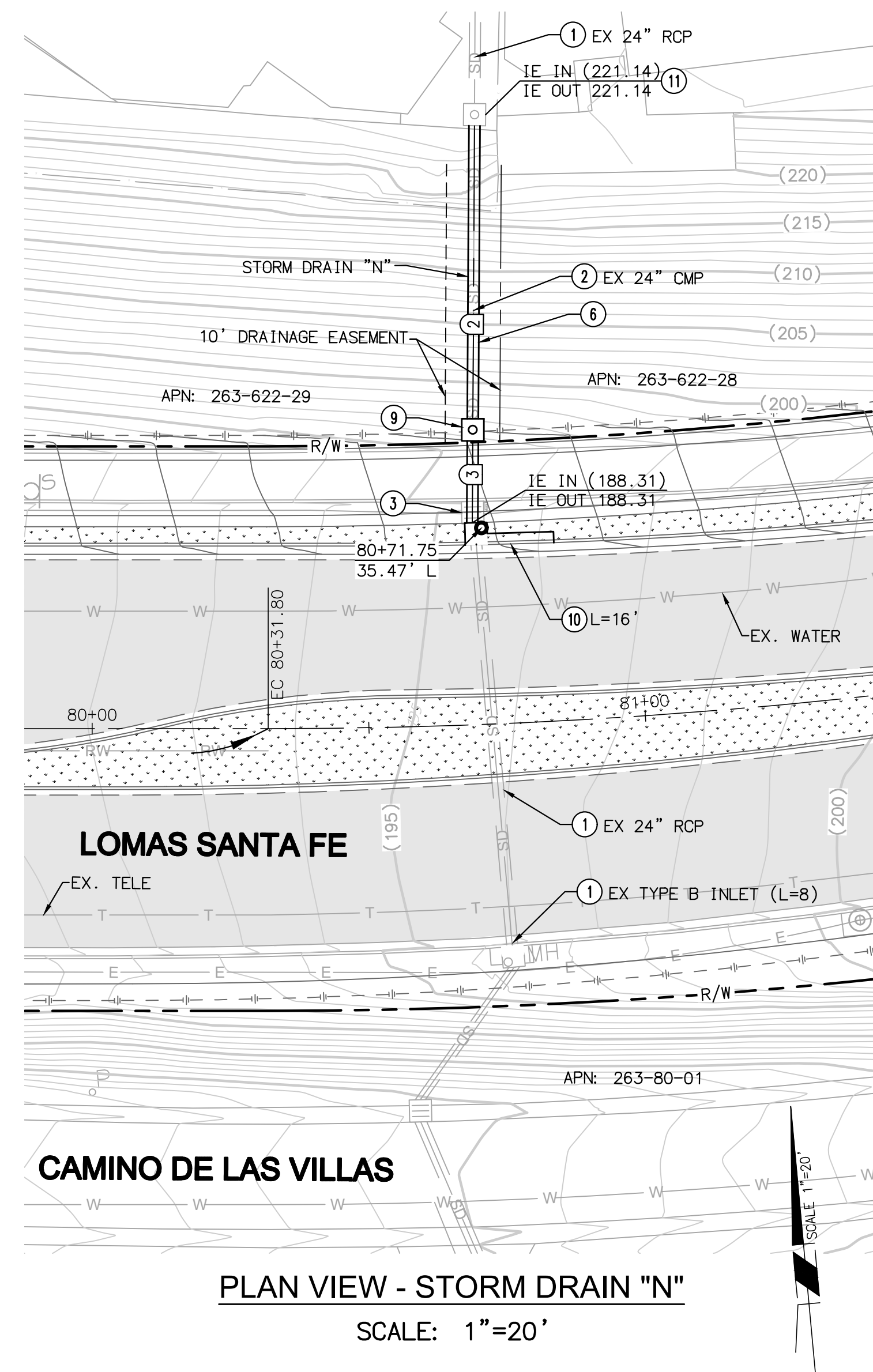
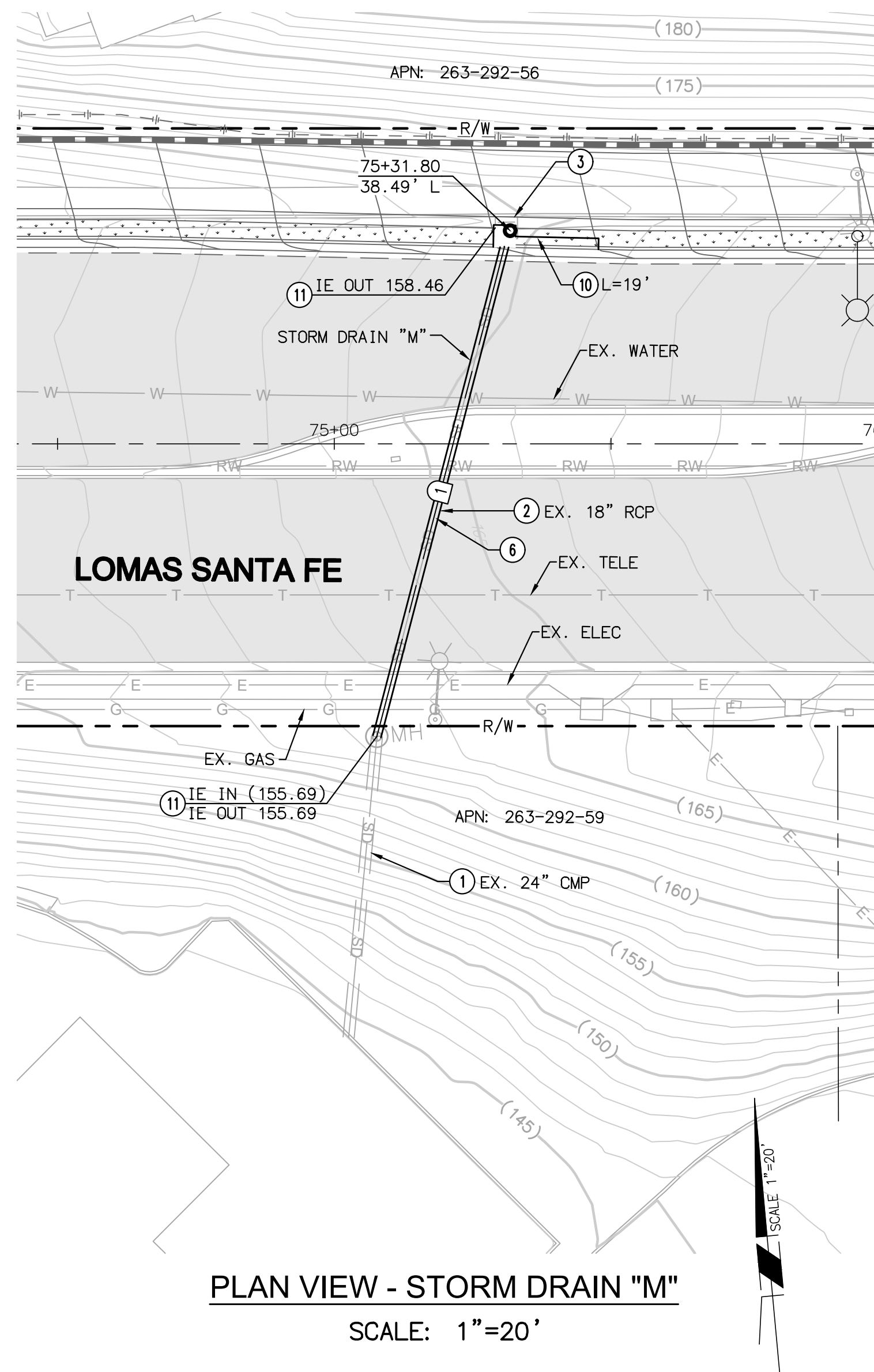
CONSTRUCTION NOTES

- ① PROTECT IN PLACE
- ② REMOVE EXISTING STORM DRAIN PIPE
- ③ REMOVE EXISTING STORM DRAIN INLET
- ④ INSTALL 24" RCP STORM DRAIN
- ⑤ CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
- ⑥ CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
- ⑦ CONNECT PROPOSED STORM DRAIN TO EXISTING CLEANOUT

STORM DRAIN NOTE

ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N19°52'01"E	--	91.31'	24" RCP ~ CLASS II
2	N05°34'30"E	--	52.94'	24" RCP ~ CLASS II
3	N05°34'30"E	--	14.79'	24" RCP ~ CLASS II
4	N00°52'01"E	--	15.34'	24" RCP ~ CLASS II
5	N03°02'14"W	--	44.18'	24" RCP ~ CLASS II
6	N03°00'00"W	--	47.00'	24" RCP ~ CLASS II
7	N02°02'34"E	--	130.45'	24" RCP



AS-BUILT
By: _____ Date: _____
R.C.E.: _____ Exp: _____

PLAN CODE
SD-4

Michael Baker INTERNATIONAL
5050 Avenida Encinas
Suite 260
Carlsbad, CA 92008
Phone: (760) 476-9193
MBAKERINTL.COM



ENGINEER OF WORK
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES

APP'D DATE

RECOMMENDED FOR APPROVAL

APPROVED FOR CONSTRUCTION

By: _____ Date: _____
By: _____ Date: _____

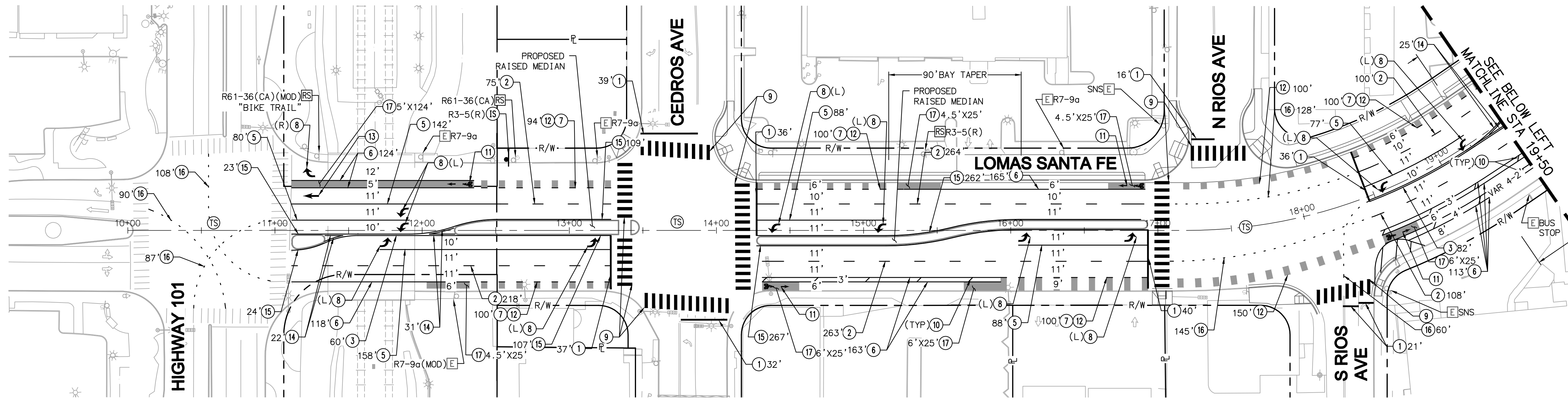
BENCH MARK
DESCRIPTION: _____ LOCATION: _____
ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH
IMPROVEMENT PLANS FOR:
LOMAS SANTA FE CORRIDOR

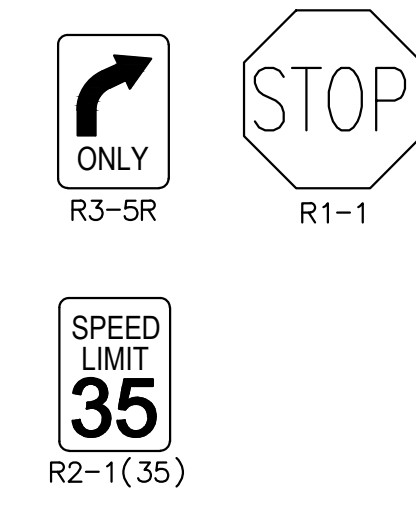
ENGINEERING DEPARTMENT
DRAINAGE PLAN & PROFILE

DRAWING NO.
CG-3185
Sheet 45 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

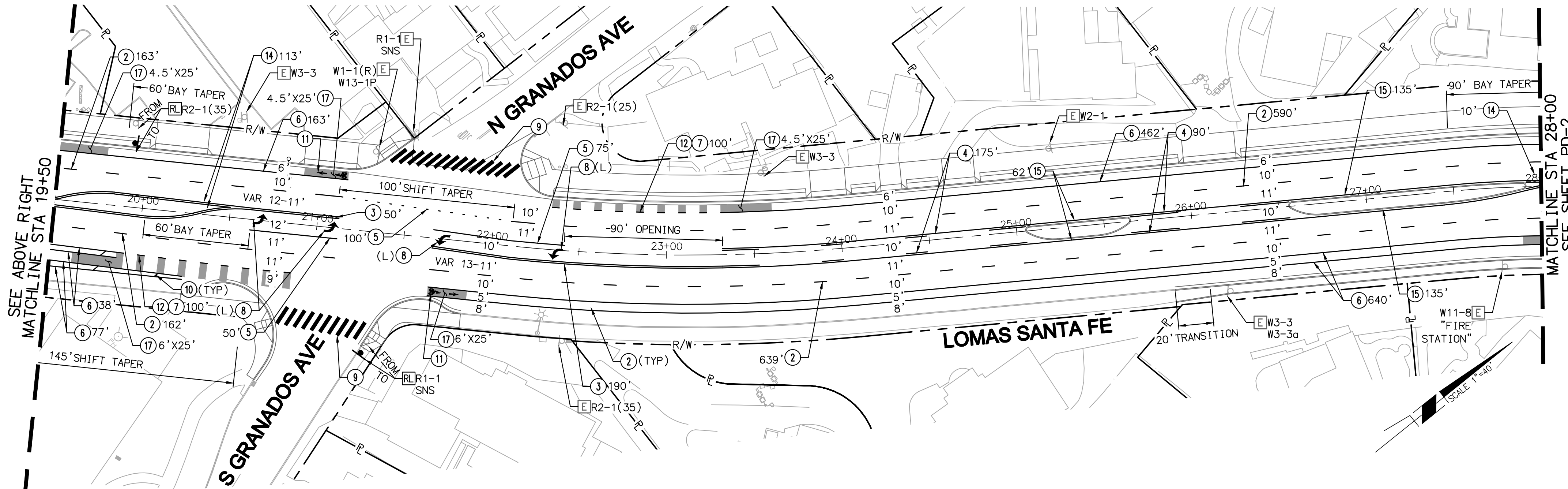


SIGN LEGEND



CONSTRUCTION NOTES

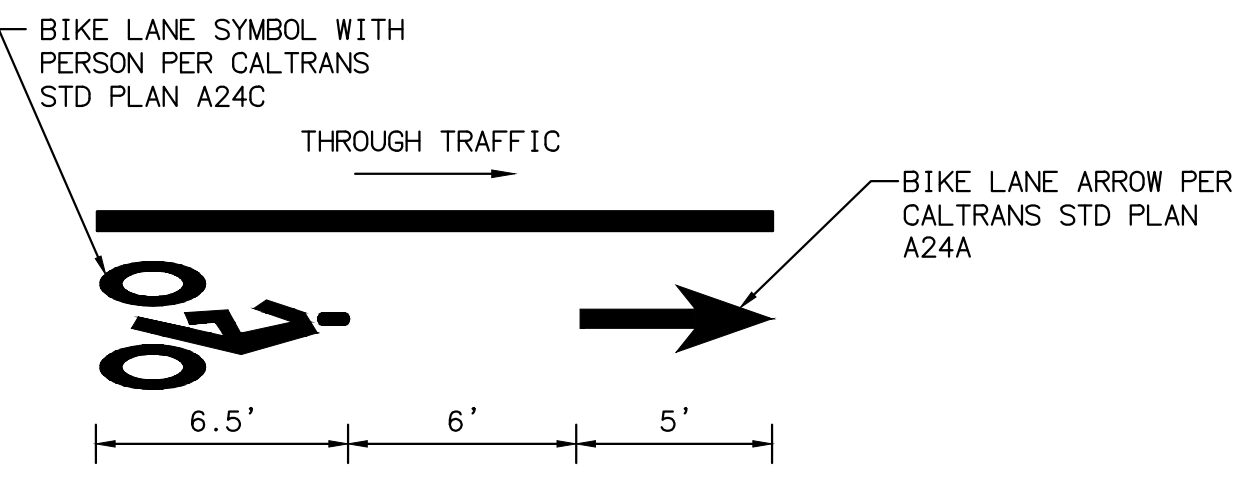
- ① INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
- ② INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- ③ INSTALL 6" DOUBLE YELLOW LINE PER CALTRANS STD PLAN A20A, DETAIL 22.
- ④ INSTALL YELLOW TWO-WAY LEFT TURN LANE PER CALTRANS STD PLAN A20B, DETAIL 32.
- ⑤ INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
- ⑥ INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
- ⑦ INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
- ⑧ INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
- ⑨ INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
- ⑩ INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
- ⑪ INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
- ⑫ INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
- ⑬ INSTALL WHITE TYPE I 10' ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
- ⑭ INSTALL 6" YELLOW MEDIAN ISLAND STRIPING PER CALTRANS STD PLAN A20B, DETAIL 29.
- ⑮ INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
- ⑯ INSTALL 6" WHITE CENTER LINE EXTENSION THROUGH INTERSECTION LINE PER CALTRANS STD PLAN A20D, DETAIL 40.
- ⑰ INSTALL GREEN BIKE LANE PAINT.



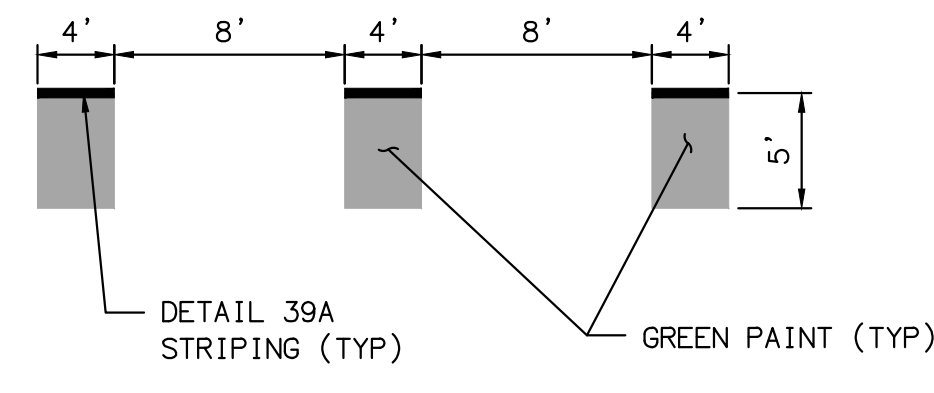
- LEGEND**
- [E] EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
 - [S] FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
 - [R] REFRESH EXISTING PAVEMENT MARKINGS
 - [P] REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
 - [T] EXISTING TRAFFIC SIGNAL
 - [R] REMOVE AND SALVAGE SIGN
 - [R] RELOCATE EXISTING TRAFFIC SIGN
 - [E] EXISTING SIGN
 - [P] PROPOSED SIGN
 - [P] PROPOSED SIGN (ON STREET LIGHT)
 - (12') EXISTING LANE WIDTH
 - 12' PROPOSED LANE WIDTH
 - SNS STREET NAME SIGN
 - (R) RIGHT
 - (L) LEFT
 - (W) WHITE
 - (Y) YELLOW

GENERAL SIGNING AND STRIPING NOTES

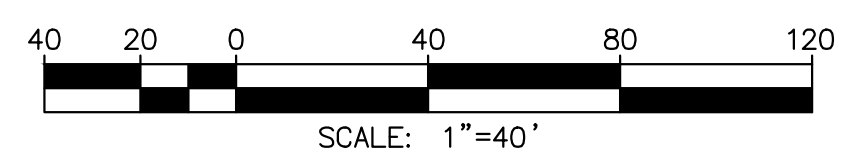
1. REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY
2. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BEFORE ANY NEW APPLICATION.
3. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.



DETAIL "A"
BIKE LANE SYMBOL WITH PERSON (FACING LEFT) AND BIKE LANE ARROW (PAINT)
NOT TO SCALE

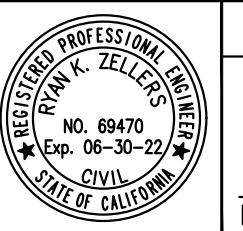


DETAIL "B"
GREEN BIKE LANE SKIP
NOT TO SCALE



AS-BUILT
PLAN CODE PD-1
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
 5050 Avenida Encinas Suite 260
 Carlsbad, CA 92008
 Phone: (760) 476-9193
 MBAKERINTL.COM



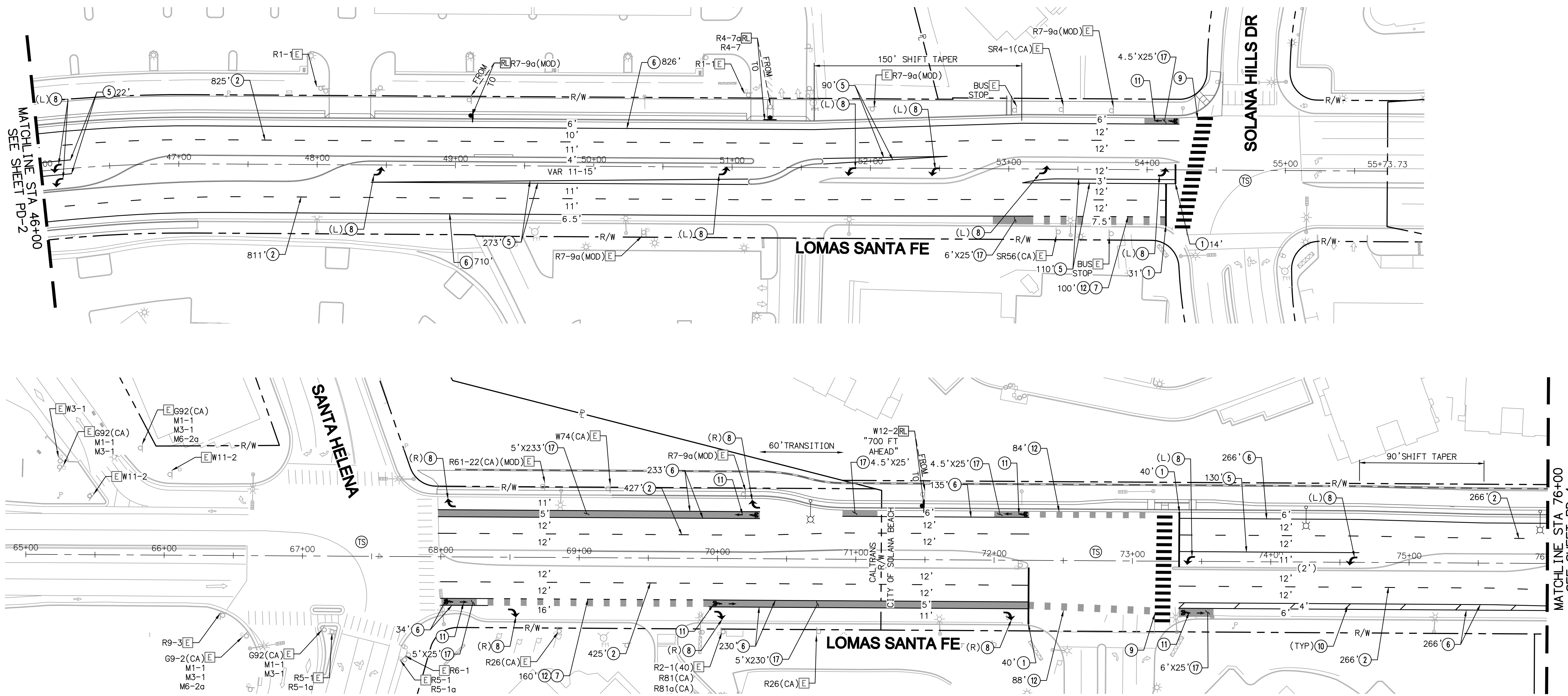
ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. CG-3185 Sheet 46 of 73
--	-----------------------	------------	---	---	--	---	---	---

RIGHT OF WAY NOTE

RIGHT-OF-WAY AND PROPERTY BOUNDARY INFORMATION SHOWN ON WEST OF INTERSTATE 5 ON THIS SHEET IS DERIVED FROM SANGIS PARCEL DATA AND IS NOT THE RESULT OF A FIELD SURVEY.

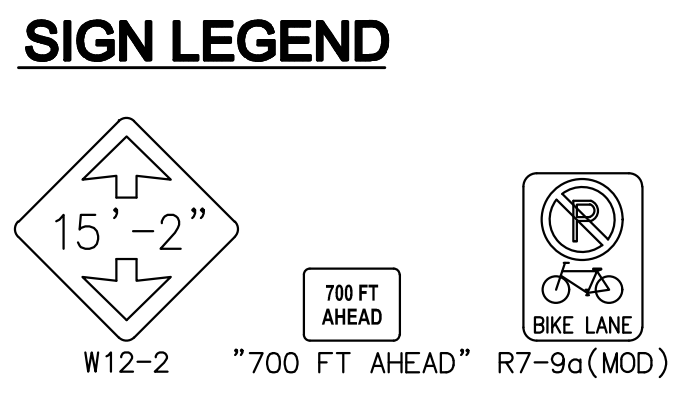
TAPER LENGTH CALCULATION

- SHIFT TAPER
 $L = WS^2/60 = 5.5 \times 40^2 / 60 = 146.7'$ USE 150'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED
- SHIFT TAPER
 $L = WS^2/60 = 2 \times 40^2 / 60 = 53.3'$ USE 90'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED

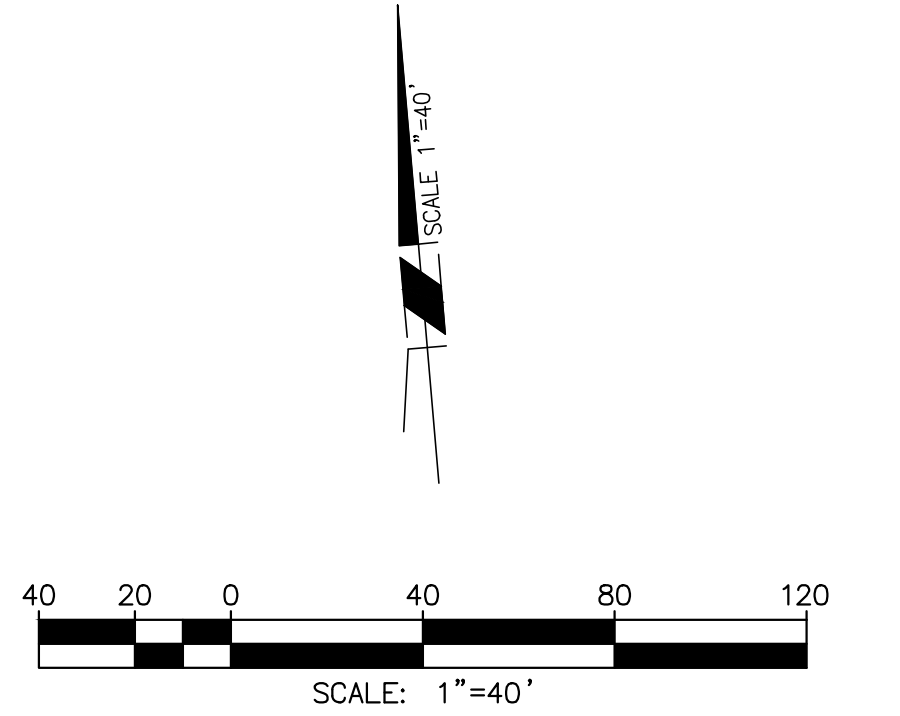


- LEGEND**
- [E] EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
 - [TS] FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
 - [R] REFRESH EXISTING PAVEMENT MARKINGS
 - [R] REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
 - [TS] EXISTING TRAFFIC SIGNAL
 - [R] REMOVE AND SALVAGE SIGN
 - [R] RELOCATE EXISTING TRAFFIC SIGN
 - [] EXISTING SIGN
 - [] PROPOSED SIGN
 - [] PROPOSED SIGN (ON STREET LIGHT)
 - (12')
 - 12'
 - SNS
 - (R)
 - (L)
 - (W)
 - (Y)

- GENERAL SIGNING AND STRIPING NOTES**
- REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY
 - TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BEFORE ANY NEW APPLICATION.
 - REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
 - EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

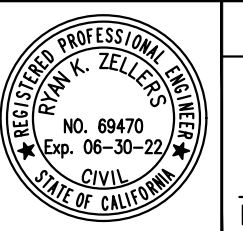


- CONSTRUCTION NOTES**
- INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
 - INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
 - INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
 - INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
 - INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
 - INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
 - INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
 - INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
 - INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
 - INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
 - INSTALL GREEN BIKE LANE PAINT.

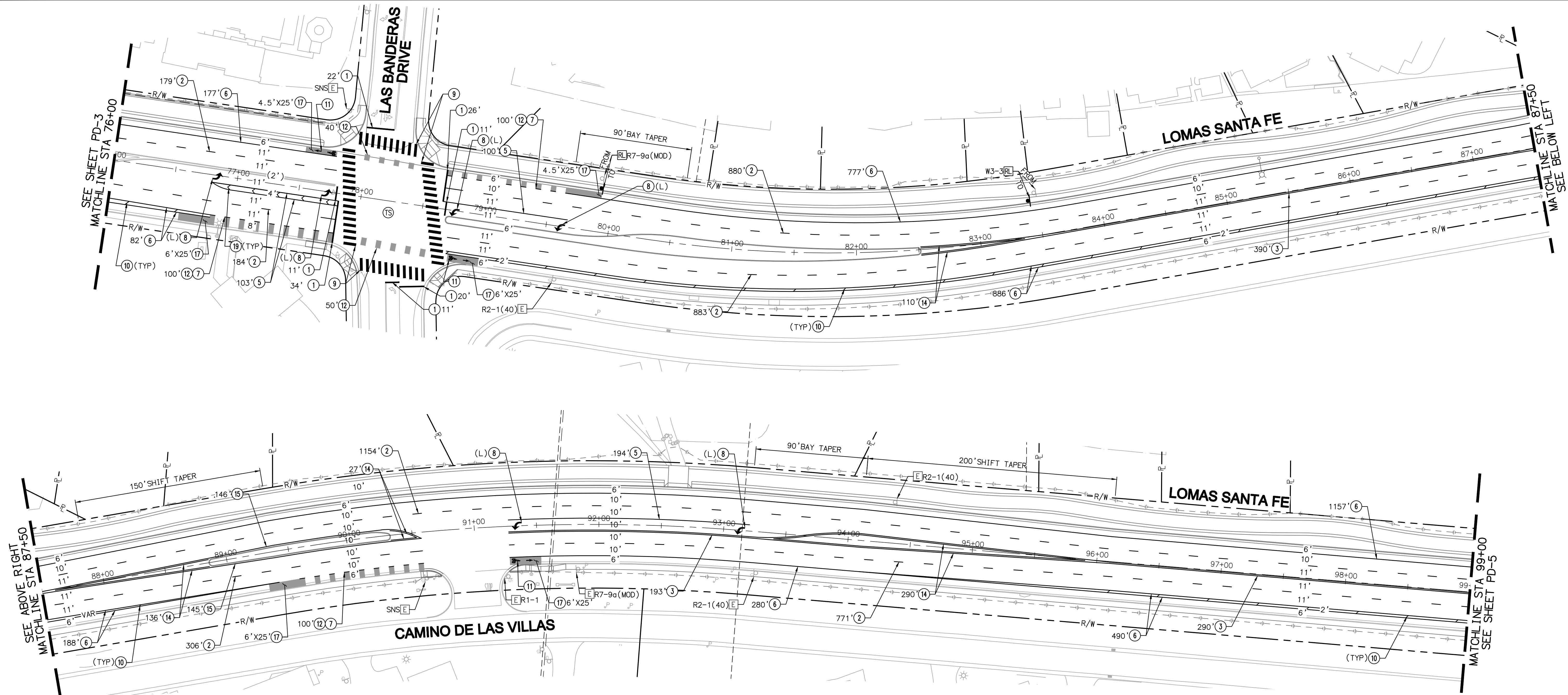


AS-BUILT
PLAN CODE PD-3
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
 5050 Avenida Encinas Suite 260 Carlsbad, CA 92008
 Phone: (760) 476-9193
 MBAKERINTL.COM



ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. CG-3185 Sheet 48 of 73
--	-----------------------	------------	---	---	---	---	---	---



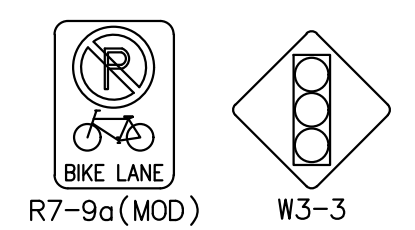
LEGEND

- E EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
- S FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
- R REFRESH EXISTING PAVEMENT MARKINGS
- R REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
- T EXISTING TRAFFIC SIGNAL
- R REMOVE AND SALVAGE SIGN
- R RELOCATE EXISTING TRAFFIC SIGN
- S EXISTING SIGN
- P PROPOSED SIGN
- P PROPOSED SIGN (ON STREET LIGHT)
- (12') EXISTING LANE WIDTH
- 12' PROPOSED LANE WIDTH
- SNS STREET NAME SIGN
- (R) RIGHT
- (L) LEFT
- (W) WHITE
- (Y) YELLOW

GENERAL SIGNING AND STRIPING NOTES

1. REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY
2. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BEFORE ANY NEW APPLICATION.
3. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

SIGN LEGEND

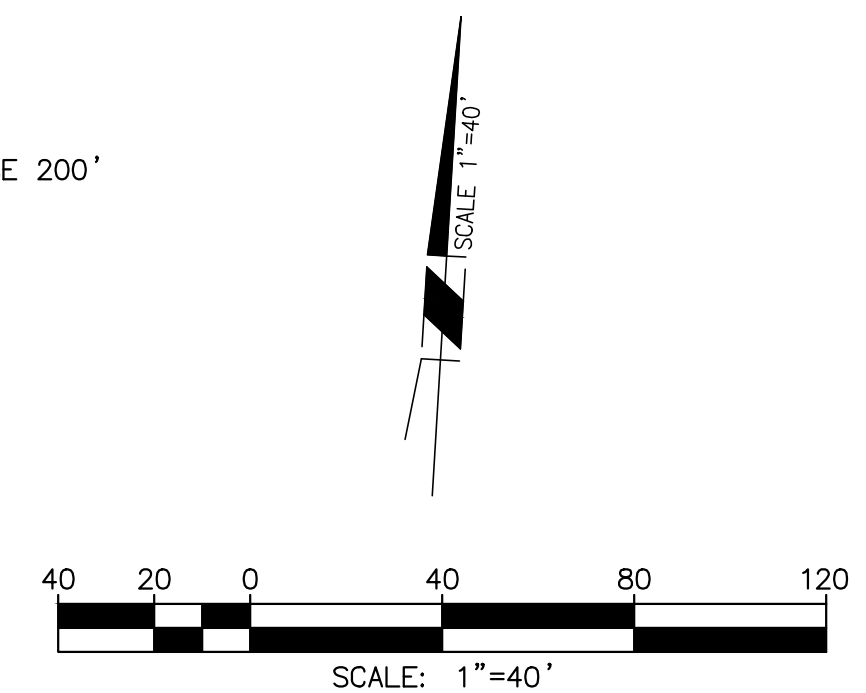


CONSTRUCTION NOTES

- ① INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
- ② INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- ③ INSTALL 6" DOUBLE YELLOW LINE PER CALTRANS STD PLAN A20A, DETAIL 22.
- ⑤ INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
- ⑥ INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
- ⑦ INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
- ⑧ INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
- ⑨ INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
- ⑩ INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
- ⑪ INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
- ⑫ INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
- ⑭ INSTALL 6" YELLOW MEDIAN ISLAND STRIPING PER CALTRANS STD PLAN A20B, DETAIL 29.
- ⑮ INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
- ⑯ INSTALL GREEN BIKE LANE PAINT.
- ⑰ INSTALL 4" WHITE CHEVRON STRIPING, AT 20' SPACING.

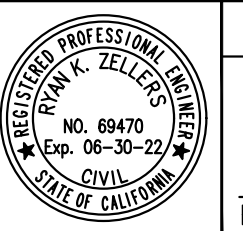
TAPER LENGTH CALCULATION

1. SHIFT TAPER
 $L = WS^2/60 = 5 \times 40^2 / 60 = 133.3'$ USE 150'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED
2. SHIFT TAPER
 $L = WS^2/60 = 5.5 \times 40^2 / 60 = 146.7'$ USE 200'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED

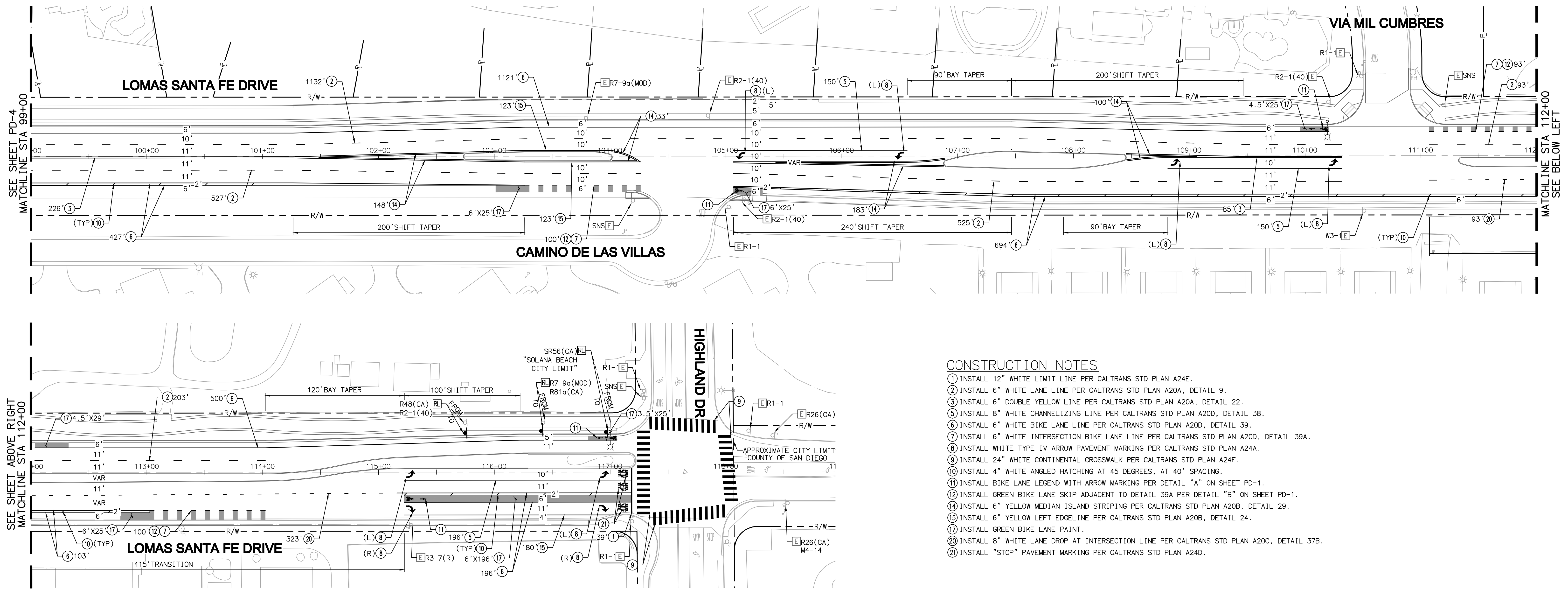


AS-BUILT
 PLAN CODE PD-4
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

Michael Baker INTERNATIONAL
 5050 Avenida Encinas Suite 260
 Carlsbad, CA 92008
 Phone: (760) 476-9193
 M.BAKER@INTL.COM



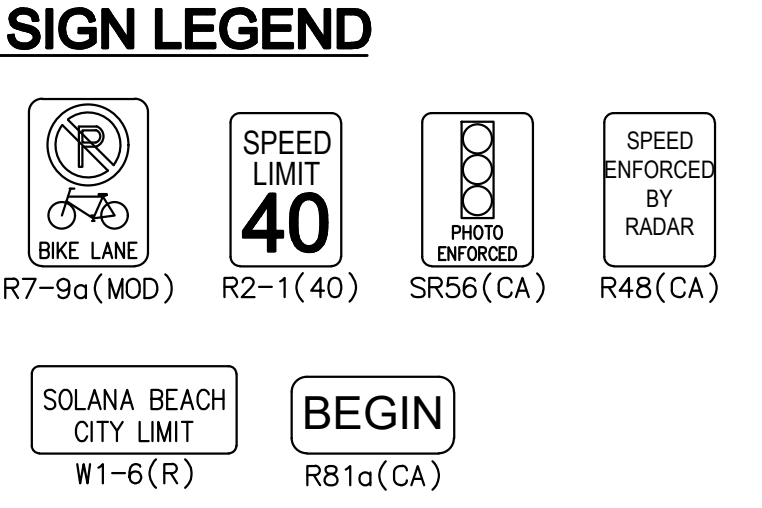
ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE _____	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. CG-3185 Sheet 49 of 73
--	-----------------------	------------	---	---	---	---	---	---



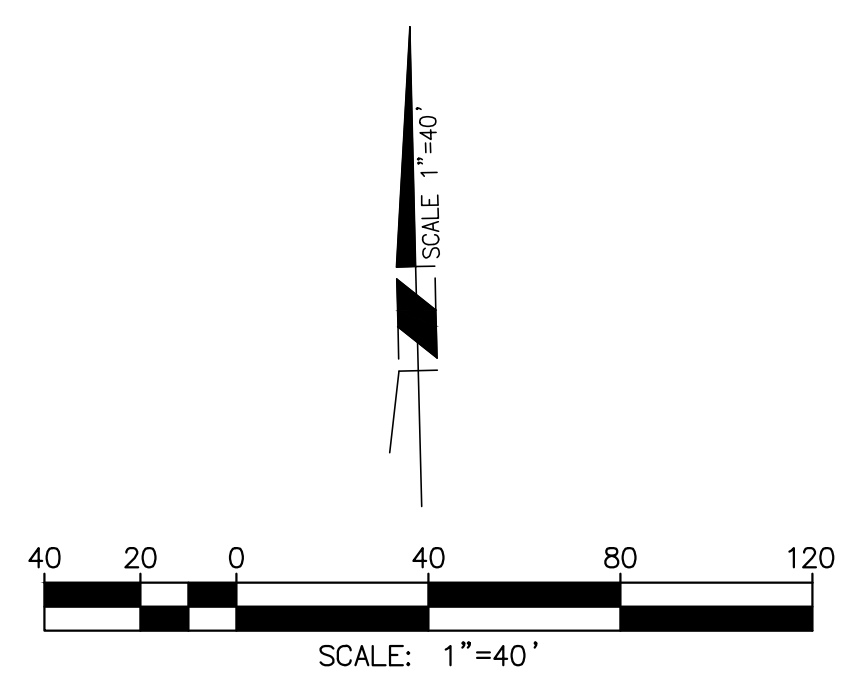
- ### CONSTRUCTION NOTES
- ① INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
 - ② INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
 - ③ INSTALL 6" DOUBLE YELLOW LINE PER CALTRANS STD PLAN A20A, DETAIL 22.
 - ⑤ INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
 - ⑥ INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
 - ⑦ INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
 - ⑧ INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
 - ⑨ INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
 - ⑩ INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
 - ⑪ INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
 - ⑫ INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
 - ⑭ INSTALL 6" YELLOW MEDIAN ISLAND STRIPING PER CALTRANS STD PLAN A20B, DETAIL 29.
 - ⑮ INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
 - ⑰ INSTALL GREEN BIKE LANE PAINT.
 - ⑳ INSTALL 8" WHITE LANE DROP AT INTERSECTION LINE PER CALTRANS STD PLAN A20C, DETAIL 37B.
 - ㉑ INSTALL "STOP" PAVEMENT MARKING PER CALTRANS STD PLAN A24D.

- ### LEGEND
- EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
 - FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
 - REFRESH EXISTING PAVEMENT MARKINGS
 - REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
 - EXISTING TRAFFIC SIGNAL
 - REMOVE AND SALVAGE SIGN
 - RELOCATE EXISTING TRAFFIC SIGN
 - EXISTING SIGN
 - PROPOSED SIGN
 - PROPOSED SIGN (ON STREET LIGHT)
 - EXISTING LANE WIDTH
 - PROPOSED LANE WIDTH
 - STREET NAME SIGN
 - RIGHT
 - LEFT
 - WHITE
 - YELLOW

- ### GENERAL SIGNING AND STRIPING NOTES
1. REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY
 2. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BEFORE ANY NEW APPLICATION.
 3. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
 4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

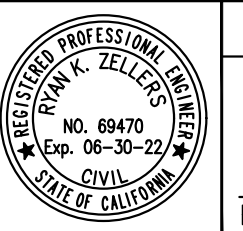


- ### TAPER LENGTH CALCULATION
1. SHIFT TAPER
 $L = WS^2/60 = 3 \times 40^2 / 60 = 80'$ USE 200'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED
 2. SHIFT TAPER
 $L = WS^2/60 = 9 \times 40^2 / 60 = 240'$ USE 240'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED
 3. SHIFT TAPER
 $L = WS^2/60 = 4 \times 40^2 / 60 = 106.7'$ USE 200'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED
 4. SHIFT TAPER
 $L = WS^2/60 = 3 \times 40^2 / 60 = 80'$ USE 100'
 L=LENGTH OF TRANSITION
 W=OFFSET
 S=DESIGN SPEED



AS-BUILT
PLAN CODE PD-5
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

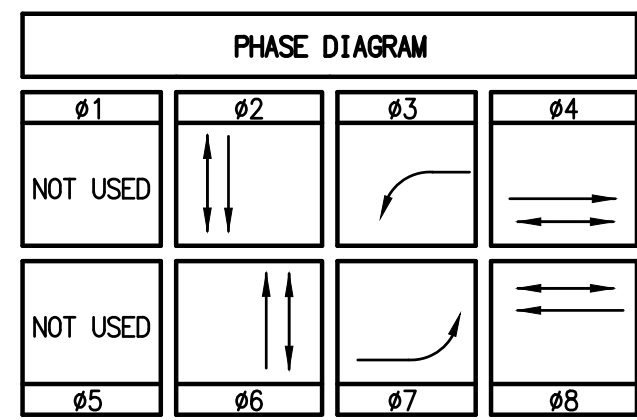
Michael Baker INTERNATIONAL
 5050 Avenida Encinas Suite 260
 Carlsbad, CA 92008
 Phone: (760) 476-9193
 MBAKERINTL.COM



ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. CG-3185 Sheet 50 of 73
--	-----------------------	------------	---	---	---	---	---	---

* CONDUCTOR SCHEDULE										
ANG OR CABLE SIZE	POLE OR CIRCUIT	CONDUIT RUNS								
		1	2	3	4	5	6	7	8	
12 CSC	POLE A	Ø2, Ø3, Ø2P, Ø4P								
	POLE B	Ø2PPB, Ø4PPB								
	POLE C	Ø3, Ø8, Ø8P, Ø2PPB								
	POLE D	Ø8PPB								
	POLE E	Ø6, Ø2P								
	POLE F	Ø6, Ø6P, Ø8PPB								
	POLE G	Ø7, Ø8P, Ø6PPB								
	POLE H	Ø4, Ø6, Ø7, Ø4P								
	POLE I	Ø4PPB, Ø6PPB								
	POLE J	Ø2, Ø6P								
3 CSC	TOTAL		1	2	1	4	1	2	7	7
#12	IISNS			2				2		
#10	SAFETY LIGHTING (LTG)			2	4	2	4			
#8	GROUND (ØND)	1	1	1	1	1	1	1	1	1
#6	SERVICE (SVC)			2		4	2	2		
TYPE B DLC	Ø2			4						
	Ø3	1	1		1			1	1	
	Ø4									2
	Ø6					3	3	3		
	Ø7									1
	Ø8	4	4		4			4	4	
	TOTAL DLCs	5	5	4	11	3	12	15		
	EVP CABLE (3M MODEL 138 CABLE)		1		2		3	3		
SIGNAL INTERCONNECT (6PR#20)	1	1		2		2	2			
CONDUIT SIZE (INCHES)	3"	3"	3"	3"	3"	2-3"	2-3"			
CONDUIT FILL (%)	17	30	14	52	10	27	39	45		

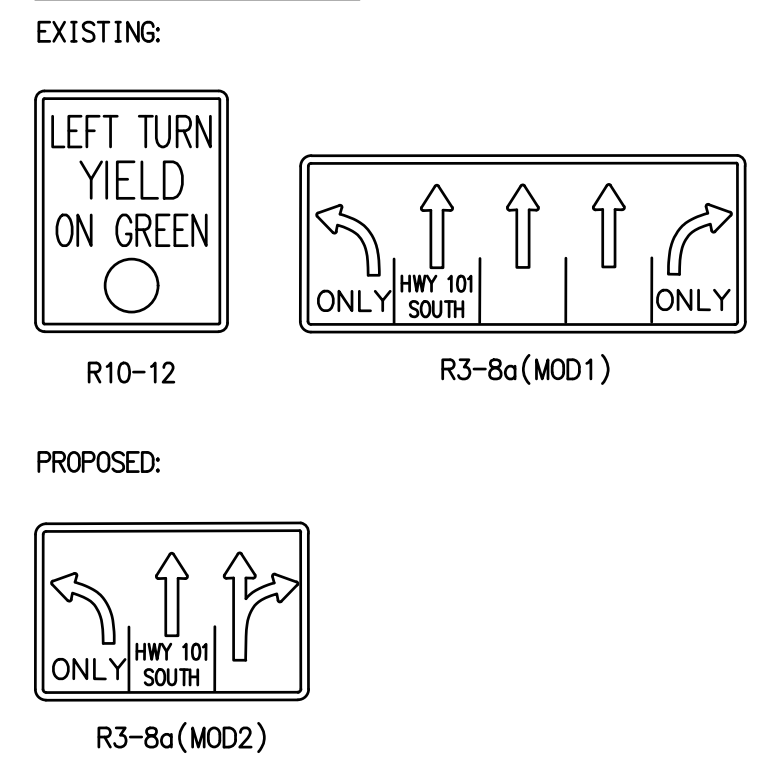
*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:
 (●) = NEW



LOMAS SANTA FE DR POSTED SPEED = 35 MPH
 CEDROS AVE POSTED SPEED = 25 MPH

ABBREVIATIONS	
AB	ABANDON
ADV	ADVANCE
APS	ACCESSIBLE PEDESTRIAN SIGNAL
BK	BIKE
C	CONDUIT
DLC	DETECTOR LOOP CABLE
EVP	EMERGENCY VEHICLE PREEMPTION
EX	EXISTING
L	LEFT
NTS	NOT TO SCALE
TYP	TYPICAL
RMC	RIGID METALLIC CONDUIT
R	RIGHT
SNS	STREET NAME SIGN
SC	SPLICE NEW TO EXISTING CONDUCTORS

SIGN LEGEND



CONSTRUCTION NOTES

- EXISTING 332L CONTROLLER CABINET WITH THE FOLLOWING EXISTING EQUIPMENT: 222 DETECTOR CARDS, 3M EVP CARDS (2), McCain PDA#2L, ED1 210E CONFLICT MONITOR UNIT.
- EXISTING MCCAIN 170E CONTROLLER. FURNISH AND INSTALL NEW MCCAIN FLEX CONTROLLER AND OWNIT PROGRAM (OR APPROVED EQUAL). FURNISH AND INSTALL NEW DETECTOR CARDS AS NECESSARY. FURNISH AND INSTALL POLARA NAVIGATOR 2-WIRE (OR APPROVED EQUAL) APS CONTROL UNIT.
- EXISTING SERVICE PEDESTAL TO REMAIN.
- EXISTING BBS TO REMAIN. BBS SYSTEM IS DIMENSIONS WITH 4 BATTERIES.
- FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- EXISTING PEDESTRIAN HEAD MODULE. FURNISH AND INSTALL NEW LED COUNTDOWN TYPE PEDESTRIAN HEAD MODULE IN EXISTING HOUSING.
- EXISTING 4 SECTION VEHICLE HEAD. FURNISH AND INSTALL 3 SECTION ARROW TYPE VEHICLE HEAD.
- EXISTING SIGN PER PLAN.
- FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- FURNISH AND INSTALL MODIFIED 4' X 6' TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- EXISTING SNS TO NEW LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING.
- DISCONNECT EXISTING SIC AND PULL BACK TO NEAREST PULL BOX. RE-PULL SIC VIA NEW CONDUIT RUN AND CONNECT.
- FURNISH AND INSTALL PVC CONDUIT WITH MALE TAPE, SIZE PER PLAN.

N CEDROS AVE

*** POLE AND EQUIPMENT SCHEDULE**

No.	TYPE	STANDARD			LED LUMINAIRE	SIGNAL MOUNTING			POLE LOCATION		IISNS	REMARKS
		HEIGHT	SIG. M. A.	LUM. M. A.		VEHICLE	PHASE	QUAD	A	B		
(A)	16-3-80	30'	20'	12'	100 W	1-MAS	SV-2-T	SP-2-T	EXISTING		Lomas Santa Fe Dr	
(B)	PPB POST	5'7"							EXISTING			
(C)	26-4-80	30'	45'	15'	101 W	1-MAS	SV-1-T	SP-1-T	EXISTING		North Cedros Ave	
(D)	PPB POST	5'7"							EXISTING			
(E)	15	30'			101 W		SV-1-T	SP-1-T	EXISTING			
(F)	16-3-100	18'6"	20'			1-MAS	SV-1-T	SP-1-T	EXISTING		Lomas Santa Fe Dr	
(G)	1-A	10'					TV-1-T	SP-1-T	EXISTING			
(H)	19A-3	30'	30'	12'	101 W	2-MAS	SV-2-T	SP-1-T (EX. CD)	EXISTING		South Cedros Ave	
(I)	PPB POST	5'7"							EXISTING			
(J)	15	30'			101 W		SV-1-T	SP-1-T (EX. CD)	EXISTING			

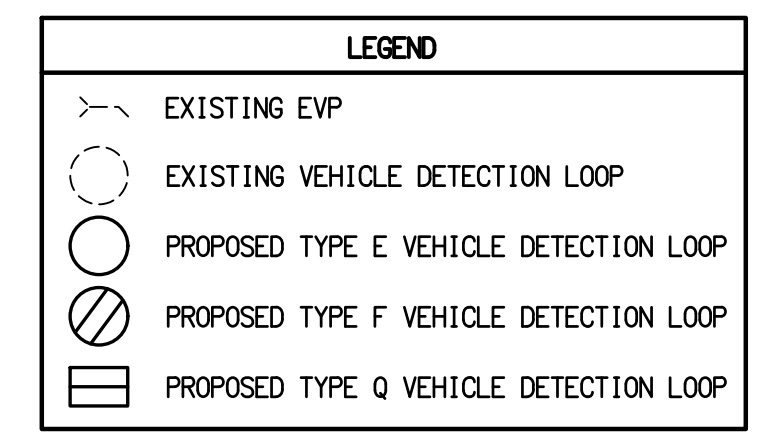
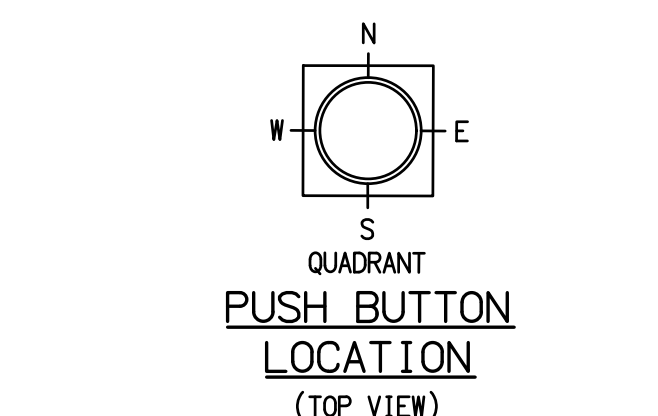
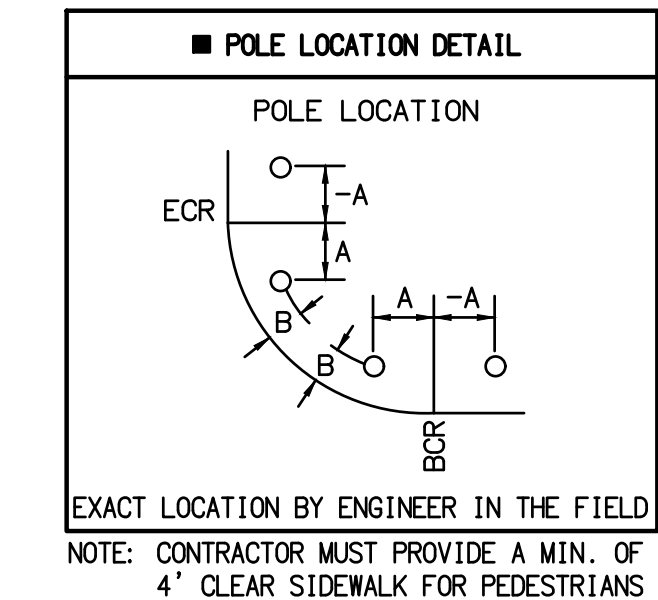
*ALL EQUIPMENT IS EXISTING UNLESS NOTED:

- (●) = NEW
- (♦) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.
- (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.
- (+) = RELOCATED

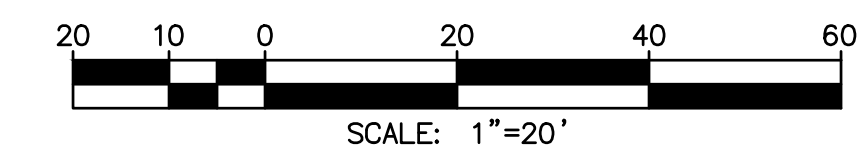
NOTE: CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.

POLES TO BE			
No.	TYPE	HEIGHT	SIG. M. A.
(F)	18-3-80	30'	20'
(G)	1-A	10'	

DETECTOR ASSIGNMENT				
DETECTOR	PHASE	SLOT	FIELD	TERMINAL
1	4 BK	16U	T4-9 & 10	
2	4	16L	T4-11 & 12	
3	7	J5U	T5-5 & 6	
4	2 ADV	12L	T2-7 & 8	
5	2 RT	12U	T2-5 & 6	
6	2	13U	T2-9 & 10	
7	2 LT	13L	T2-11 & 12	
8	8 ADV	J6U	T5-9 & 10	
9	8 ADV	J6L	T5-11 & 12	
10	8 BK	J7U	T7-1 & 2	
11	8	J7L	T7-3 & 4	
12	3	15U	T4-5 & 6	
13	6 ADV	J3U	T3-9 & 10	
14	6	J3L	T3-11 & 12	
15	6 LT	J4U	T5-1 & 2	



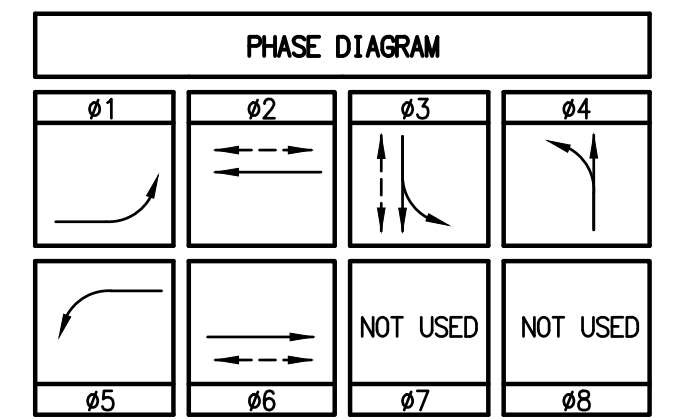
AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.



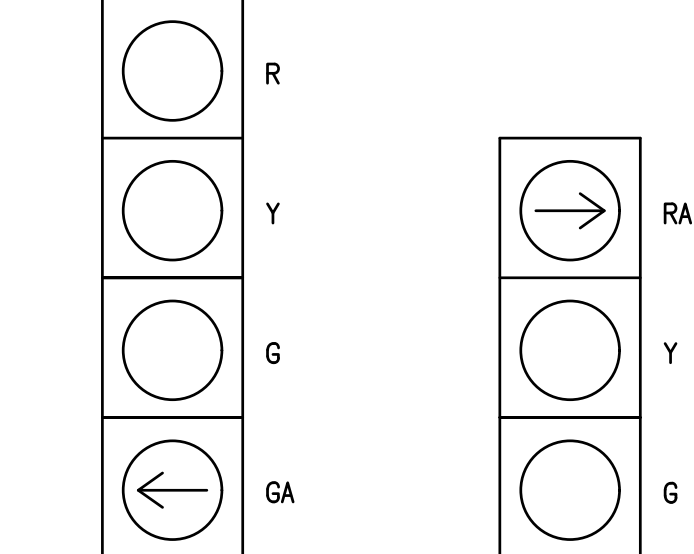
PLAN CODE **AS-BUILT**
 TS-1
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

	5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & CEDROS AVE	ENGINEERING DEPARTMENT	DRAWING NO.
		CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			
								ELEV: _____ DATUM: M.S.L.	Sheet 51 of 73	

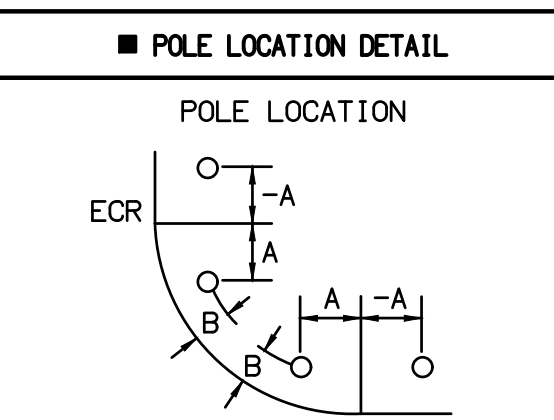
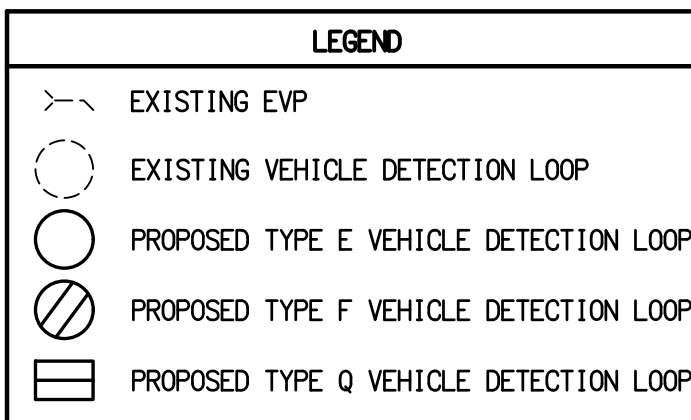
* CONDUCTOR SCHEDULE		CONDUIT RUNS									
ANG OR CABLE SIZE	POLE OR CIRCUIT	1	2	3	4	5	6	7	8	9	10
12 CSC	POLE A' #3P, #3PPB										
	POLE B #2P, #2PPB										
	POLE C #2, #2PPB										
	POLE D #1, #2, #4, #5										
	POLE E' #4										
	POLE F #2, #6, #6P, #6PPB										
	POLE G #6PPB										
	POLE H #1, #3, #5, #6, #6P										
	POLE I #3, #5, #3P, #3PPB										
3 CSC	TOTAL	1	1	4	1	1	3	3	4	3	4
#10	IISNS	2	2								
	SAFETY LIGHTING (LTG)		2								
#8	GROUND (GND)	1	1	1							
	SERVICE (SVC)										
TYPE B DLC	#1									1	1
	#2	4	4							4	4
	#3			1							1
	#4				2	2	2	2	2	2	2
	#5	1	1								1
	#6									4	4
	TOTAL DLCs	5	5	3	2	2	2	7	7	13	13
EVP CABLE (3M MODEL 138 CABLE)		1	2	1	1	1	2	2	4		
	SIGNAL INTERCONNECT (6PR#20)									1	2
CONDUIT SIZE (INCHES)		3"	2"	3"	2"	2"	2.5"	2.5"	3"	3"	2-3"
	CONDUIT FILL (%)	13	20	36	23	24	43	46	46	54	49



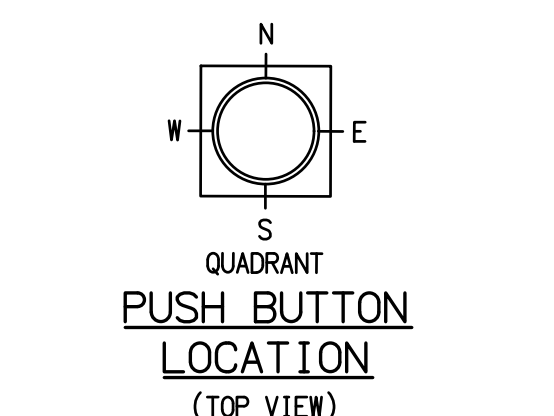
LOMAS SANTA FE DR POSTED SPEED = 35 MPH
EL VIENTO ST/NARDO AVE POSTED SPEED = 25 MPH



DETAIL "A" 4-SECTION VEHICLE HEAD
DETAIL "B" 3-SECTION VEHICLE HEAD



EXACT LOCATION BY ENGINEER IN THE FIELD
NOTE: CONTRACTOR MUST PROVIDE A MIN. OF 4' CLEAR SIDEWALK FOR PEDESTRIANS



* POLE AND EQUIPMENT SCHEDULE										IISNS		REMARKS	
No.	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED LUMINAIRE	SIGNAL MOUNTING		PHASE	QUAD	POLE LOCATION		IISNS	REMARKS
						VEHICLE	PED			A	B		
(A)	15 TS	30'		15'	101 W		SP-1-T	#3P	E	5'	6'		
(B)	1-A	7'					TP-1-T	#2P	S	1.5'	6'		
(C)	1-A	7'					TP-1-T	#2P	S	8'	8'		
(D)	24-4-70	30'	55'	15'	101 W	2-MAS	SV-3-TA			EXISTING		Rios Avenue	
(E)	16-3-100	17'	20'			1-MAS-4B	SV-1-T			SEE PLAN		Lomas Santa Fe Dr	
(F)	15 TS	30'		15'	101 W		SP-1-T (EX. CD)	#6P	N	EXISTING			
(G)	PPB POST	5'7"					SP-1-T (EX. CD)	#6P	S	10'	8'		
(H)	26-4-70	30'	35'	15'	101 W	2-MAS	SV-3-TA			EXISTING		Rios Avenue	
(I)	16-2-70	17'	20'			1-MAS-4B	SV-2-T	#3P	W	EXISTING		Lomas Santa Fe Dr	

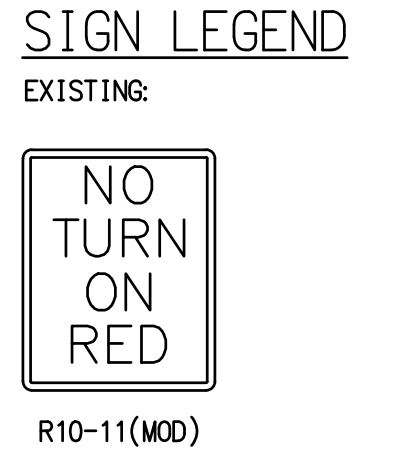
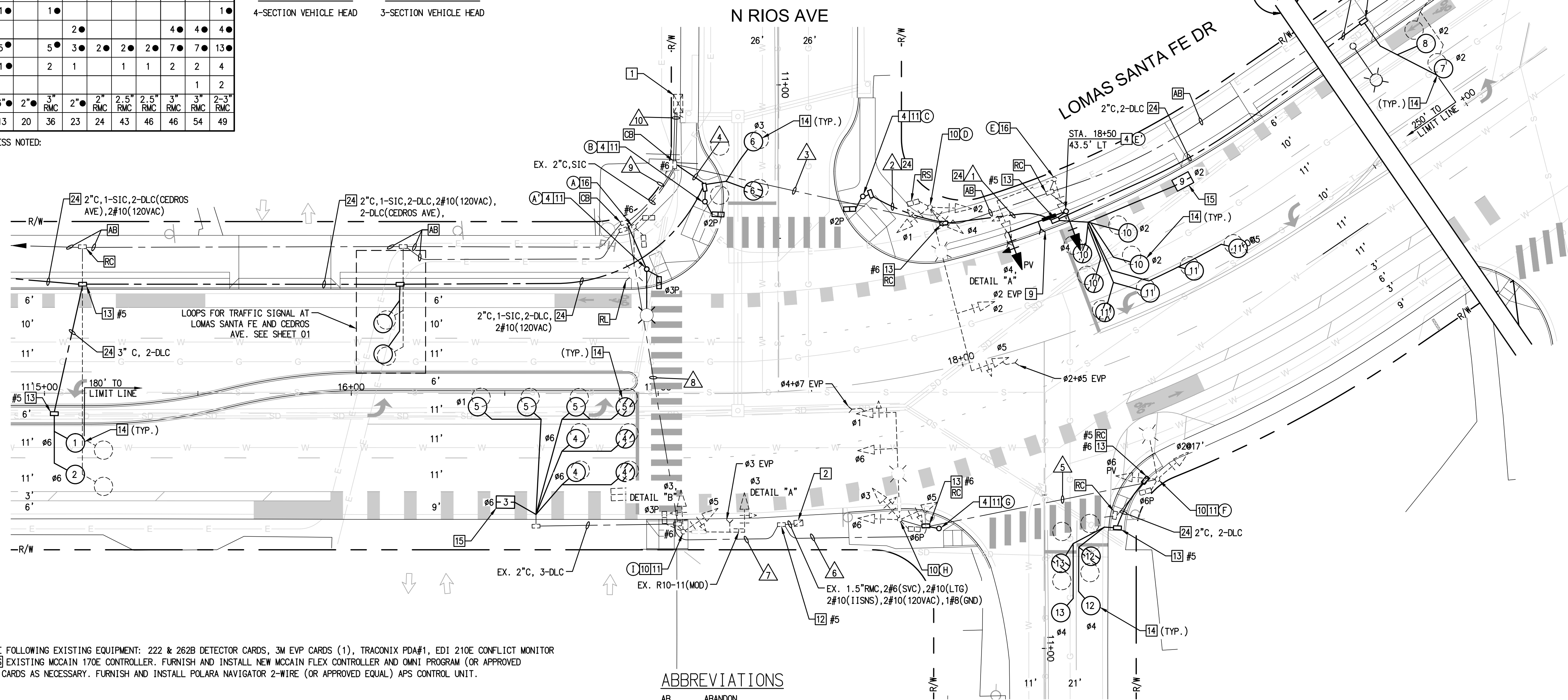
*ALL EQUIPMENT IS EXISTING UNLESS NOTED:
(●) = NEW
(◆) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.
(▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.
(+) = RELOCATE

POLES TO BE [RS]		
No.	TYPE	HEIGHT
(A)	15	30'
(E)	16-3-70	20'

NOTE: CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.

DETECTOR ASSIGNMENT				
DETECTOR	PHASE	SLOT	FIELD	TERMINAL
1	2 ADV	I2L	T2-7 & 8	
2	2 ADV	I2U	T2-5 & 6	
3	2 BK	I3U	T2-9 & 10	
4	2	I3L	T2-11 & 12	
5	5	J5U	T3-1 & 2	
6	3	I5U	T4-5 & 6	
7	6 ADV	J3U	T3-9 & 10	
8	6 ADV	J3L	T3-11 & 12	
9	6 BK	J4U	T5-1 & 2	
10	6	J4L	T5-3 & 5	
11	1	I1U	T2-1 & 2	
12	4	I6U	T4-9 & 10	
13	4	I6L	T4-11 & 12	

*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:
(●) = NEW
(RMC) = RIGID METALLIC CONDUIT

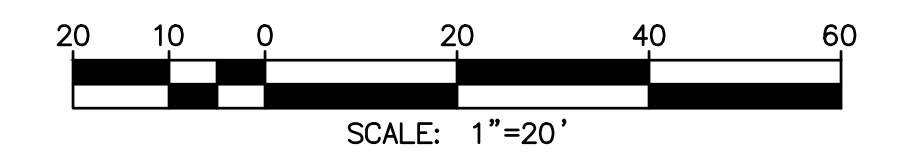


AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.

CONSTRUCTION NOTES

- EXISTING 332L CONTROLLER CABINET WITH THE FOLLOWING EXISTING EQUIPMENT: 222 & 262B DETECTOR CARDS, 3M EVP CARDS (1), TRACONIX PDA#1, EDI 210E CONFLICT MONITOR UNIT, DIMENSIONS BBS WITH 4 BATTERIES. [RS] EXISTING MCCAIN 170E CONTROLLER. FURNISH AND INSTALL NEW MCCAIN FLEX CONTROLLER AND OMNI PROGRAM (OR APPROVED EQUAL). FURNISH AND INSTALL NEW DETECTOR CARDS AS NECESSARY. FURNISH AND INSTALL POLARA NAVIGATOR 2-WIRE (OR APPROVED EQUAL) APS CONTROL UNIT.
- EXISTING SERVICE PEDESTAL TO REMAIN.
- FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- [RL] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- [RS] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- [RC] EXISTING PULL BOX LID. FURNISH AND INSTALL NEW PULL BOX LID PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E. LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- FURNISH AND INSTALL MODIFIED 4X6 TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40" FROM LIMIT LINE.
- [RS] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. RL EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- FURNISH AND INSTALL PVC CONDUIT WITH MALE TAPE, SIZE PER PLAN.

- ABBREVIATIONS
- AB ABANDON
 - ADV ADVANCE
 - APS ACCESSIBLE PEDESTRIAN SIGNAL
 - BK BIKE
 - C CONDUIT
 - DLC DETECTOR LOOP CABLE
 - EVP EMERGENCY VEHICLE PREEMPTION
 - EX EXISTING
 - L LEFT
 - NTS NOT TO SCALE
 - TYP TYPICAL
 - RMC RIGID METALLIC CONDUIT
 - R RIGHT
 - SNS STREET NAME SIGN
 - SC SPLICE NEW TO EXISTING CONDUCTORS



AS-BUILT
PLAN CODE TS-2
By: _____ Date: _____
R.C.E.: _____ Exp: _____

<p>5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 Ph: 760-602-4290 WWW.STCTRFFIC.COM</p>	<p>ENGINEER OF WORK CHRISTIAN J. LAMBARTH RCE 86675 DATE _____</p>	<p>CITY APPROVED CHANGES</p>	<p>APP'D DATE</p>	<p>RECOMMENDED FOR APPROVAL</p>	<p>APPROVED FOR CONSTRUCTION</p> <p>By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22</p>	<p>BENCH MARK</p>	<p>CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & RIOS AVE</p>	<p>ENGINEERING DEPARTMENT</p>	<p>DRAWING NO. CG-3185 Sheet 52 of 73</p>

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

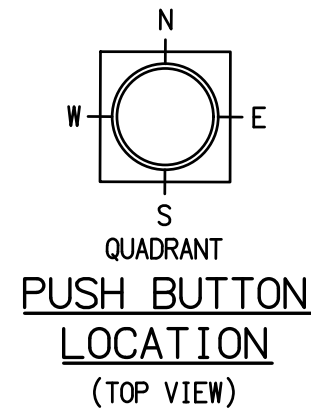
* CONDUCTOR SCHEDULE									
ANG OR CABLE SIZE	POLE OR CIRCUIT	CONDUIT RUNS							
		1	2	3	4	5	6	7	8
12 CSC	POLE A'	3	3	3	3	3	3	3	3
	POLE B'	5	5	5	5	5	5	5	5
	POLE C	2	2	2	2	2	2	2	2
	POLE D'	4	4	4	4	4	4	4	4
	POLE E'	4	4	4	4	4	4	4	4
	POLE F'	1	1	1	1	1	1	1	1
	POLE G	1	1	1	1	1	1	1	1
3 CSC	POLE H	1	1	1	1	1	1	1	1
TOTAL		2	2	2	2	2	2	2	2
#10	SAFETY LIGHTING	2	2	2	2	2	2	2	2
#8	GROUND	1	1	1	1	1	1	1	1
#6	SERVICE								2
TYPE B DLC	#1								1
	#2	4	4	4	4	4	4	4	4
	#3	1	1	1	1	1	1	1	1
	#4								2
	#5	1	1	1	1	1	1	1	1
	#6								2
	#7								1
	#8								1
TOTAL DLCs		5	7	7	3	2	5	15	
EVP CABLE (3M MODEL 138 CABLE)		1	1	2	2	2	5	5	
SIGNAL INTERCONNECT (6PR#20)								2	
CONDUIT SIZE (INCHES)		3"	3"	3"	3"	3"	2-3"	2-3"	
CONDUIT FILL (%)		23	33	42	22	19	41	45	

*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:
 (●) = NEW
 (RMC) = RIGID METALLIC CONDUIT

LEGEND	
	EXISTING EVP
	EXISTING VEHICLE DETECTION LOOP
	PROPOSED TYPE E VEHICLE DETECTION LOOP
	PROPOSED TYPE F VEHICLE DETECTION LOOP
	PROPOSED TYPE Q VEHICLE DETECTION LOOP

AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.

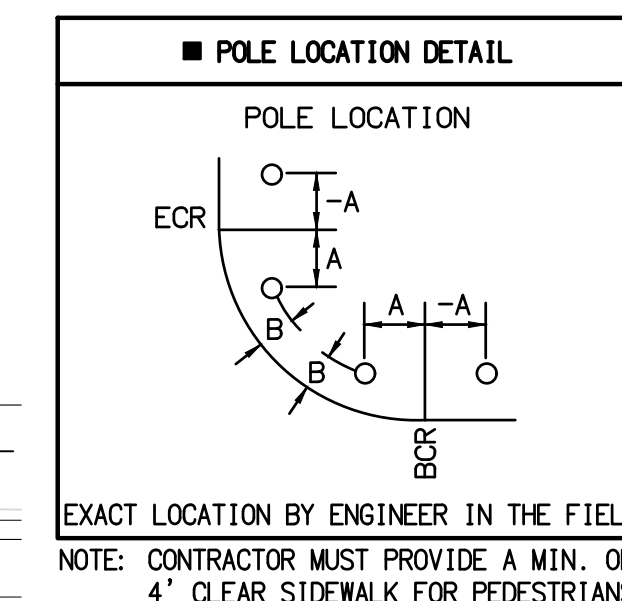
ABBREVIATIONS	
AB	ABANDON
ADV	ADVANCE
APS	ACCESSIBLE PEDESTRIAN SIGNAL
BK	BIKE
C	CONDUIT
DLC	DETECTOR LOOP CABLE
EVP	EMERGENCY VEHICLE PREEMPTION
EX	EXISTING
L	LEFT
NTS	NOT TO SCALE
TYP	TYPICAL
RMC	RIGID METALLIC CONDUIT
R	RIGHT
SNS	STREET NAME SIGN
SC	SPLICE NEW TO EXISTING CONDUCTORS



* POLE AND EQUIPMENT SCHEDULE													
No.	TYPE	STANDARD			LED LUMINAIRE	SIGNAL MOUNTING			PPB	POLE LOCATION		MAST ARM MOUNTED SNS	REMARKS
		HEIGHT	SIG. M.A.	LUM. M.A.		VEHICLE	PED	PHASE		QUAD	A		
(A)	26-4-100	30'	35'	15'	101 W	1-MAS-5A	SV-2-T	SP-1-T	66P	S	33'	6'	Lomas Santa Fe Dr
(B)	1-A	10'				TV-1-T	SP-1-T (EX. CD)	68P	W	9'	6'		
(C)	26-4-70	30'	45'	12'	101 W	2-MAS	SV-1-T	SP-1-T	68P	W	EXISTING	Nardo Ave	
(D)	1-A	10'				TV-1-T	SP-1-T (EX. CD)	62P	N	4'	6'		
(E)	17-2-100	30'	20'	15'	101 W	1-MAS-5A	SV-1-T	SP-1-T	66P	S	12'	6'	Lomas Santa Fe Dr
(F)	1-A	10'				TV-1-T	SP-1-T	62P	S	23'	6'		
(G)	26-4-70	30'	40'	12'	101 W	2-MAS	SV-1-T	SP-1-T	66P	S	EXISTING	Nardo Ave EL VIENTO	
(H)	1-A	10'				TV-1-T	SP-1-T	66P	S	EXISTING		TOP MOUNTED EVP DETECTOR	

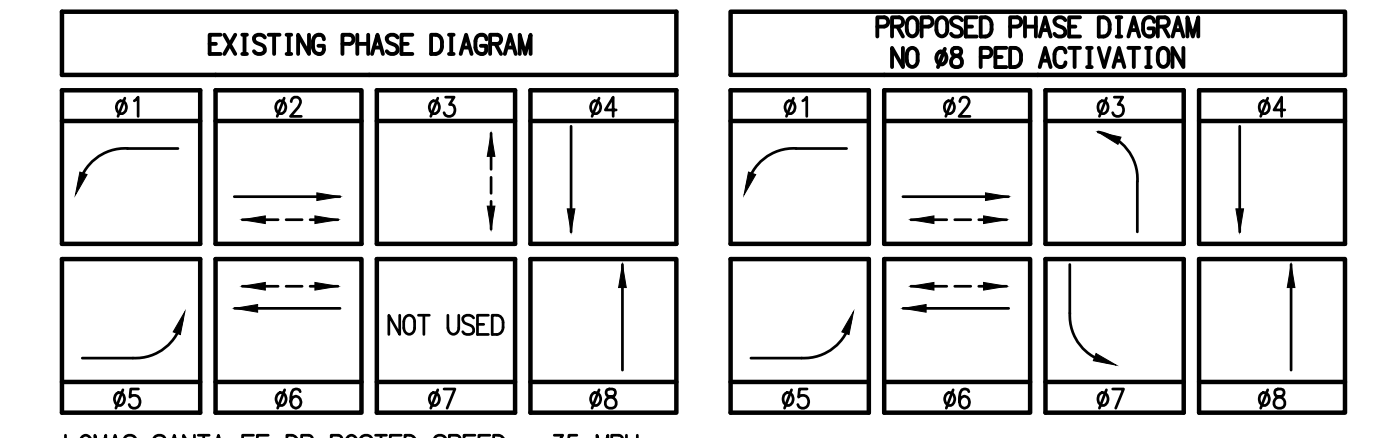
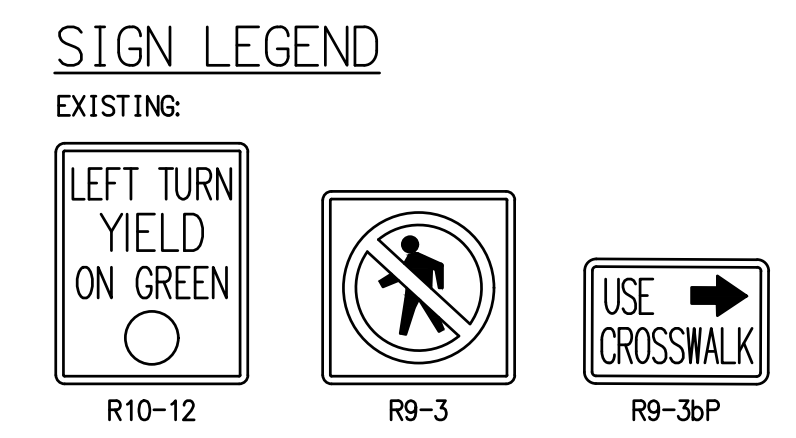
*ALL EQUIPMENT IS EXISTING UNLESS NOTED:
 (●) = NEW
 (◆) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.
 (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.
 (+) = RELOCATED

NOTE:
 CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.



DETECTOR ASSIGNMENT				
PHASE	DETECTOR	INPUT ASSEMBLY	FITA*	
#1	13	IA1 - I/O 6	FITA1, FIT1	1-2
#2 ADV	1	IA1 - I/O 8	FITA1, FIT2	1-2
#2 ADV	2	IA1 - I/O 9	FITA1, FIT2	6-7
#2 BIKE	3	IA1 - I/O 10	FITA1, FIT3	1-2
#2	4	IA1 - I/O 11	FITA1, FIT3	6-7
#3	15	IA1 - I/O 14	FITA1, FIT5	1-2
#4 RT	6	IA1 - I/O 16	FITA1, FIT6	1-2
#4 ADV	7	IA1 - I/O 17	FITA1, FIT6	6-7
#5	5	IA2 - I/O 6	FITA2, FIT1	1-2
#6 ADV	9	IA2 - I/O 8	FITA2, FIT2	1-2
#6 ADV	10	IA2 - I/O 9	FITA2, FIT2	6-7
#6 BIKE	11	IA2 - I/O 10	FITA2, FIT3	1-2
#6	12	IA2 - I/O 11	FITA2, FIT3	6-7
#7	8	IA2 - I/O 14	FITA2, FIT5	1-2
#8 ADV	14	IA2 - I/O 16	FITA2, FIT6	1-2
#2	PPB	IA1 - I/O 26	FITA1, FIT11	1-2
#4	PPB	IA1 - I/O 27	FITA1, FIT11	6-7
#6	PPB	IA1 - I/O 28	FITA1, FIT12	1-2
#8	PPB	IA1 - I/O 29	FITA1, FIT12	6-7
#2+#5	EVA	IA2 - I/O 24	FITA2, FIT10	1-2-5
#4	EVB	IA2 - I/O 25	FITA2, FIT10	6-7-10
#1+#6	EVC	IA2 - I/O 26	FITA2, FIT11	1-2-5
#8	EVD	IA2 - I/O 27	FITA2, FIT11	6-7-10

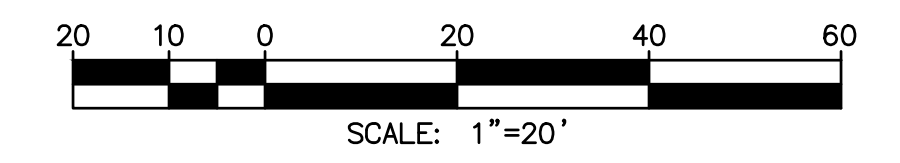
POLES TO BE			
No.	TYPE	HEIGHT	SIG. M.A.
(A)	26-4-70	30'	45'
(D)	1-A	10'	
(E)	17-2-70	30'	20'
(F)	1-A	10'	



LOMAS SANTA FE DR POSTED SPEED = 35 MPH
 EL VIENTO ST/NARDO AVE POSTED SPEED = 25 MPH

CONSTRUCTION NOTES

- [10] EXISTING 332L CONTROLLER CABINET AND EQUIPMENT COMPLETE. BREAK DOWN FOUNDATION 36" BELOW GRADE.
- [16] FURNISH AND INSTALL NEW MODEL 3521 ATC ANODIZED ALUMINUM CONTROLLER CABINET WITH TWO INPUT FILES AND FOUNDATION COMPLETE PER CALTRANS STANDARD PLAN ES-3C1. CABINET SHALL HAVE FRONT AND BACK INTERNAL LED LIGHT, FRONT AND REAR DOOR SWITCHES, RACK MOUNT POWER STRIP, AND PULL-OUT DOCUMENT DRAWER. CABINET SHALL BE EQUIPPED WITH THE FOLLOWING EQUIPMENT: NEW McCain FLEX CONTROLLER WITH OMNI SYSTEM, NEW DETECTOR CARDS, NEW DC ISOLATORS, NEW LOAD SWITCHES, NEW IP CAPABLE CONFLICT MONITOR UNIT WITH AUXILIARY DISPLAY, NEW POLARA NAVIGATOR 2-WIRE CONTROL UNIT WITH POWER SUPPLY, NEW GTT 764 PHASE SELECTORS WITH ETHERNET CAPABILITY, NEW ETHERNET CAPABLE RACK MOUNT POWER STRIP.
- [2] EXISTING SERVICE PEDESTAL TO REMAIN.
- [3] EXISTING ALPHA BBS CABINET AND SYSTEM COMPLETE TO NEW LOCATION PER PLAN.
- [4] FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- [5] EXISTING PEDESTRIAN HEAD MODULE. FURNISH AND INSTALL NEW LED COUNTDOWN TYPE PEDESTRIAN HEAD MODULE IN EXISTING HOUSING.
- [8] FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- [9] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- [10] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- [11] FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- [13] FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- [14] FURNISH AND INSTALL NEW 6" DIAMETER INDUCTANCE DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- [15] FURNISH AND INSTALL MODIFIED 4X6 TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- [16] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- [17] EXISTING SNS TO NEW LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING.
- [18] EXISTING VEHICLE HEAD. FURNISH AND INSTALL NEW 5-SECTION VEHICLE HEAD PER DETAIL "B" WITH MOUNTING.
- [21] DISCONNECT EXISTING SIC AND PULL BACK TO NEAREST PULL BOX. RE-PULL SIC VIA NEW CONDUIT RUN AND CONNECT.
- [24] FURNISH AND INSTALL PVC CONDUIT WITH MULE TAPE, SIZE PER PLAN.

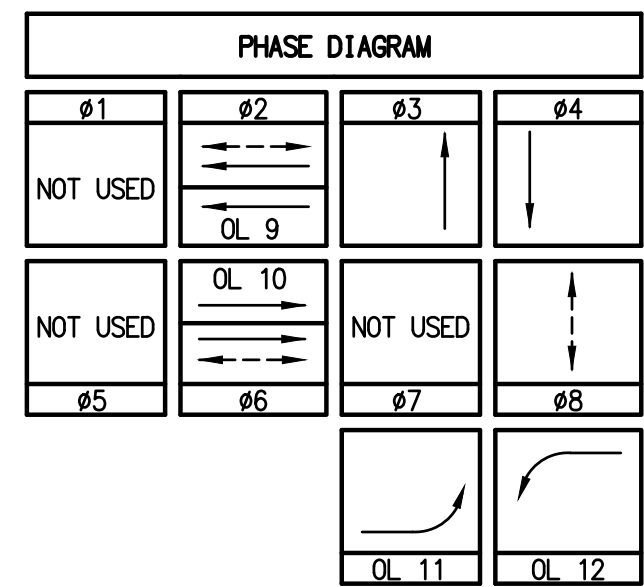


SCALE: 1"=20'
 PLAN CODE AS-BUILT
 By: _____ Date: _____
 TS-3 R.C.E.: _____ Exp: _____

	5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & NARDO AVE	ENGINEERING DEPARTMENT	DRAWING NO.
		CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			

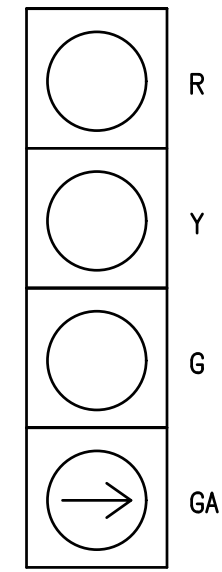
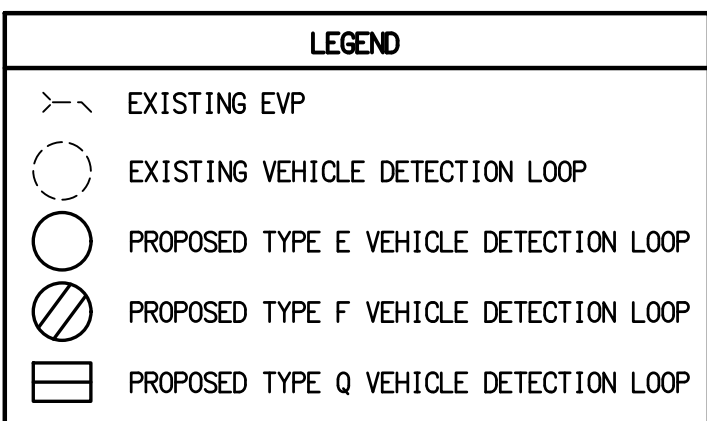
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

* CONDUIT SCHEDULE		CONDUIT RUNS											
ANG OR CABLE SIZE	POLE OR CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12
12 CSC	POLE A' OL 9, #2P, #2PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE B' OL 11, #2P, #2PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE C' OL 11, OL 12, #2 #8P, #8PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE D' #3	1	1	1	1	1	1	1	1	1	1	1	1
	POLE E OL 10, #6P, #6PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE F OL 9, #2P, #2PPB	1	1	1	1	1	1	1	1	1	1	1	1
3 CSC	POLE G #6PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE H OL 12, #6P, #6PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE I #3, #8PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE J #4, #6	1	1	1	1	1	1	1	1	1	1	1	1
	POLE K #4	1	1	1	1	1	1	1	1	1	1	1	1
	TOTAL		1	2	2	3	4	3	1	2	2	2	2
#10 SAFETY LIGHTING (LTG)		2	2	2			2	2	2		2	2	2
#8 GROUND (GND)		1	1	1			1	1		1	1	1	1
#6 SERVICE (SVC)					4	4			2	2	2		2
TYPE B DLC	#2						3	3	3			3	3
	#3						3	3	3			3	3
	#4	1	1	1					1	1	1	1	1
	#6									4	4	4	4
OL 11									1	1	1	1	
OL 12				2	2				2	2		2	2
TOTAL DLCs		1	1	6	7		3	4	10	5	5	10	15
EVP CABLE (3M MODEL 138 CABLE)		1	1	3					3	3		3	3
SIGNAL INTERCONNECT (6PR#20)													2
CONDUIT SIZE (INCHES)		3"	3"	3"	3"	2" RMC	2" RMC	3"	2-3"	1.5" RMC	3"	2-3"	3-3"
CONDUIT FILL (%)		12	19	31	43	18	35	39	42	42	19	42	35



AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT-HOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POT-HOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.

LOMAS SANTA FE DR POSTED SPEED = 35 MPH
 GLENCREST DR POSTED SPEED = 25 MPH
 STEVENS AVE POSTED SPEED = 30 MPH

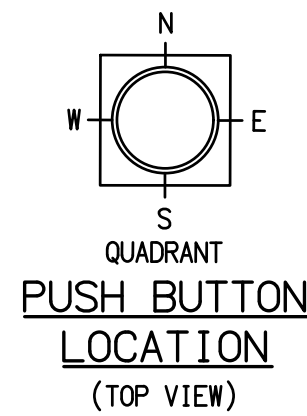


DETAIL "A"
4-SECTION VEHICLE HEAD

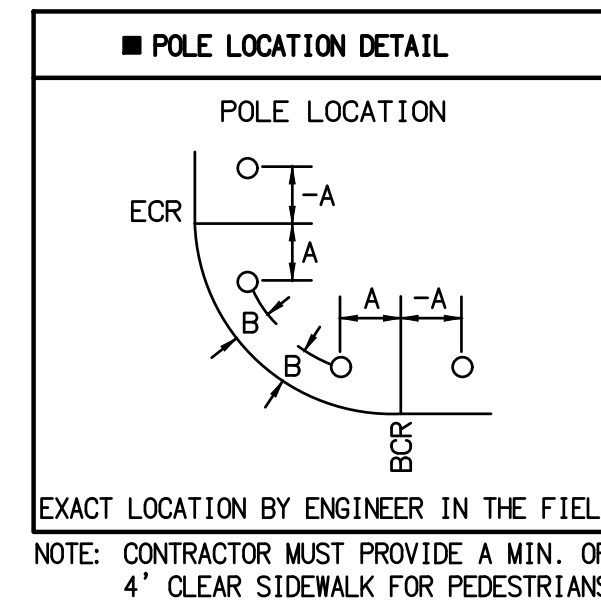
* POLE AND EQUIPMENT SCHEDULE												
No.	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED LUMINAIRE	SIGNAL MOUNTING		PHASE	QUAD	POLE LOCATION		REMARKS
						VEHICLE	PED			A	B	
(A)	17-3-100	30'	25'	15'	101 W	1-MAS	SV-1-T017	SP-1-T	#2	N	9' 8'	POLE MOUNTED R2-1(35), R49R(CA)
(B)	1-A	10'					TV-1-T	SP-1-T	#2	N	7' 6'	
(C)	29-5-100	30'	40'	15'	101 W	3-MAS	SV-1-T	SP-1-T	#8	E	SEE PLAN	Stevens
(D)	18-4-100	17'	25'			1-MAS	SV-1-T				SEE PLAN	POLE MOUNTED R26(CA)(MOD)
(E)	17-2-70	30'	20'	15'	101 W	1-MAS	SV-1-T				EXISTING	Stevens
(F)	1-A	10'					TP-1-T	#6	S		EXISTING	
(G)	PPB POST	5' 7"						#6	S	5'	24'	
(H)	1-A	10'					TV-1-T	SP-2-T	#8	W	5'	18'
(I)	1-A	10'					TV-1-T				EXISTING	
(J)	17-2-70	30'	25'	15'	101 W	1-MAS	SV-2-T				EXISTING	Glencrest
(K)	1-A	10'					TV-1-T				EXISTING	

ALL EQUIPMENT IS EXISTING UNLESS NOTED:
 (●) = NEW
 (♦) = EXISTING PEDESTRIAN INDICATIONS ARE LED COUNTDOWN TYPE.
 (▲) = EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY IS APS AND ADA COMPLIANT.
 (+) = RELOCATED

NOTE: CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POT-HOLE POLE FOUNDATIONS AND SUBMIT MATERIALS OUT SHEETS PRIOR TO ORDERING OF MATERIALS.



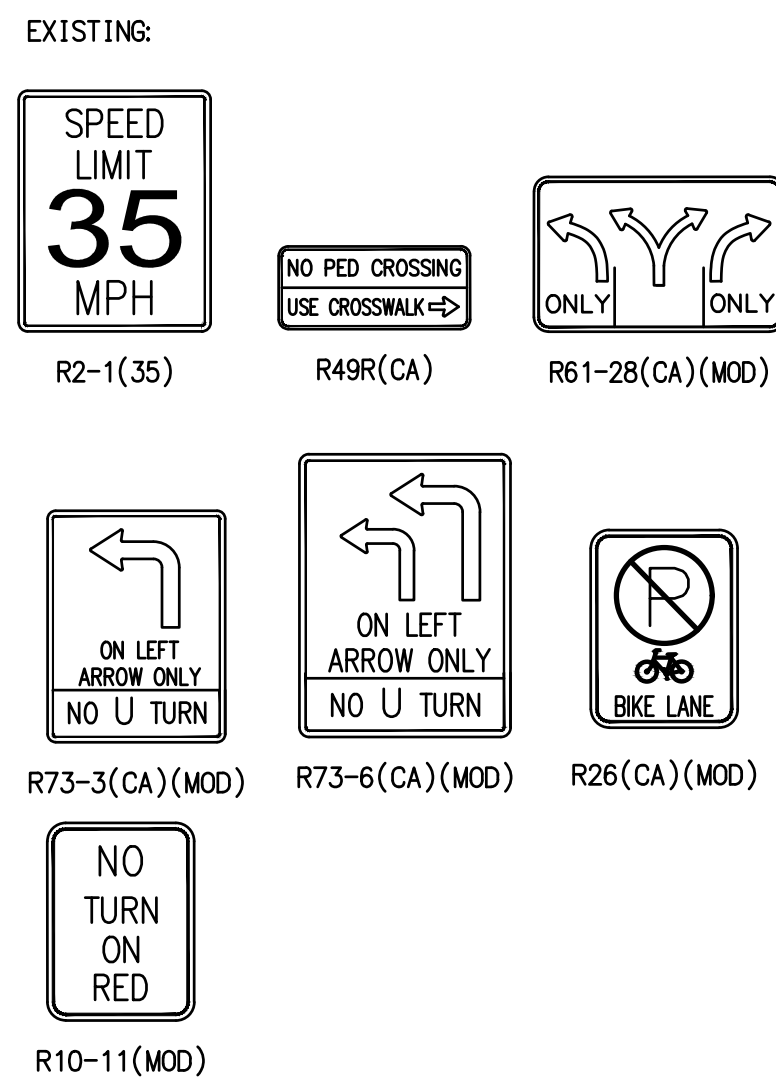
POLES TO BE			
No.	TYPE	HEIGHT	SIG. M.A.
(A)	17-3-70	30'	20'
(B)	1-A	10'	
(C)	29-5-70	30'	50'
(D)	18-4-70	30'	30'
(H)	1-A	10'	



DETECTOR ASSIGNMENT			
PHASE	DETECTOR	INPUT ASSEMBLY	FITA*
#2 ADV	7	IA1 - I/O 8	FITA1, FIT2, 1-2
#2 ADV	8	IA1 - I/O 9	FITA1, FIT2, 6-7
#2 BIKE	9	IA1 - I/O 10	FITA1, FIT3, 1-2
#2	10	IA1 - I/O 11	FITA1, FIT3, 6-7
#3	13	IA1 - I/O 14	FITA1, FIT5, 1-2
#3	14	IA1 - I/O 15	FITA1, FIT5, 6-7
#3	15	IA1 - I/O 16	FITA1, FIT6, 1-2
#4	6	IA1 - I/O 18	FITA1, FIT7, 1-2
#6 ADV	1	IA2 - I/O 8	FITA2, FIT2, 1-2
#6 ADV	2	IA2 - I/O 9	FITA2, FIT2, 6-7
#6 BIKE	3	IA2 - I/O 10	FITA2, FIT3, 1-2
#6	4	IA2 - I/O 11	FITA2, FIT3, 6-7
OL 11	5	IA1 - I/O 6	FITA1, FIT1, 1-2
OL 12	11	IA2 - I/O 6	FITA2, FIT1, 1-2
OL 12	12	IA2 - I/O 7	FITA2, FIT1, 6-7
#2	PPB	IA1 - I/O 26	FITA1, FIT12, 1-2
#6	PPB	IA1 - I/O 28	FITA1, FIT12, 1-2
#8	PPB	IA1 - I/O 29	FITA1, FIT12, 6-7
#2+#5	EVA	IA2 - I/O 24	FITA2, FIT10, 1-2-5
#1+#6	EVC	IA2 - I/O 26	FITA2, FIT11, 1-2-5
#8	EVD	IA2 - I/O 27	FITA2, FIT11, 6-7-10

* FIELD INPUT TERMINATION ASSEMBLY

SIGN LEGEND

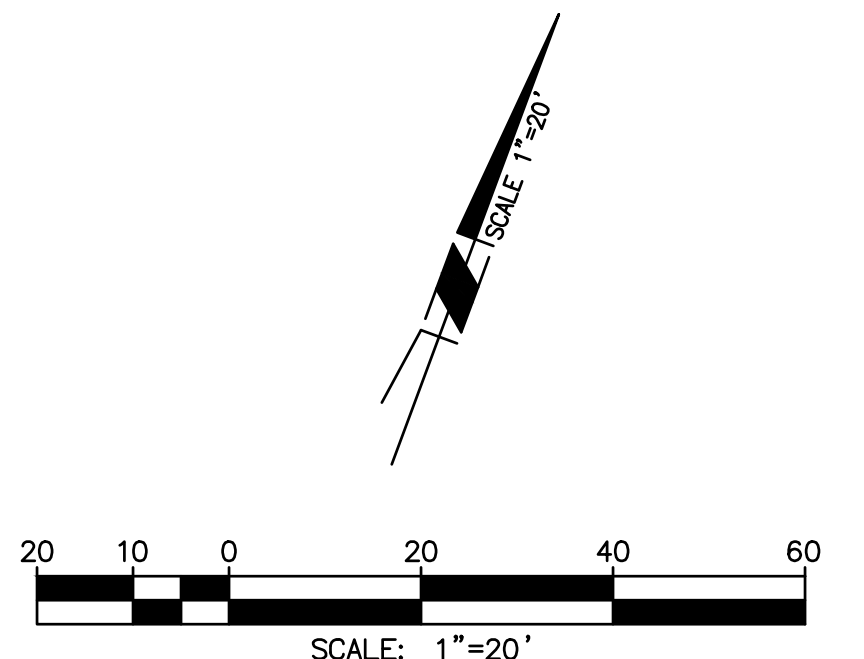
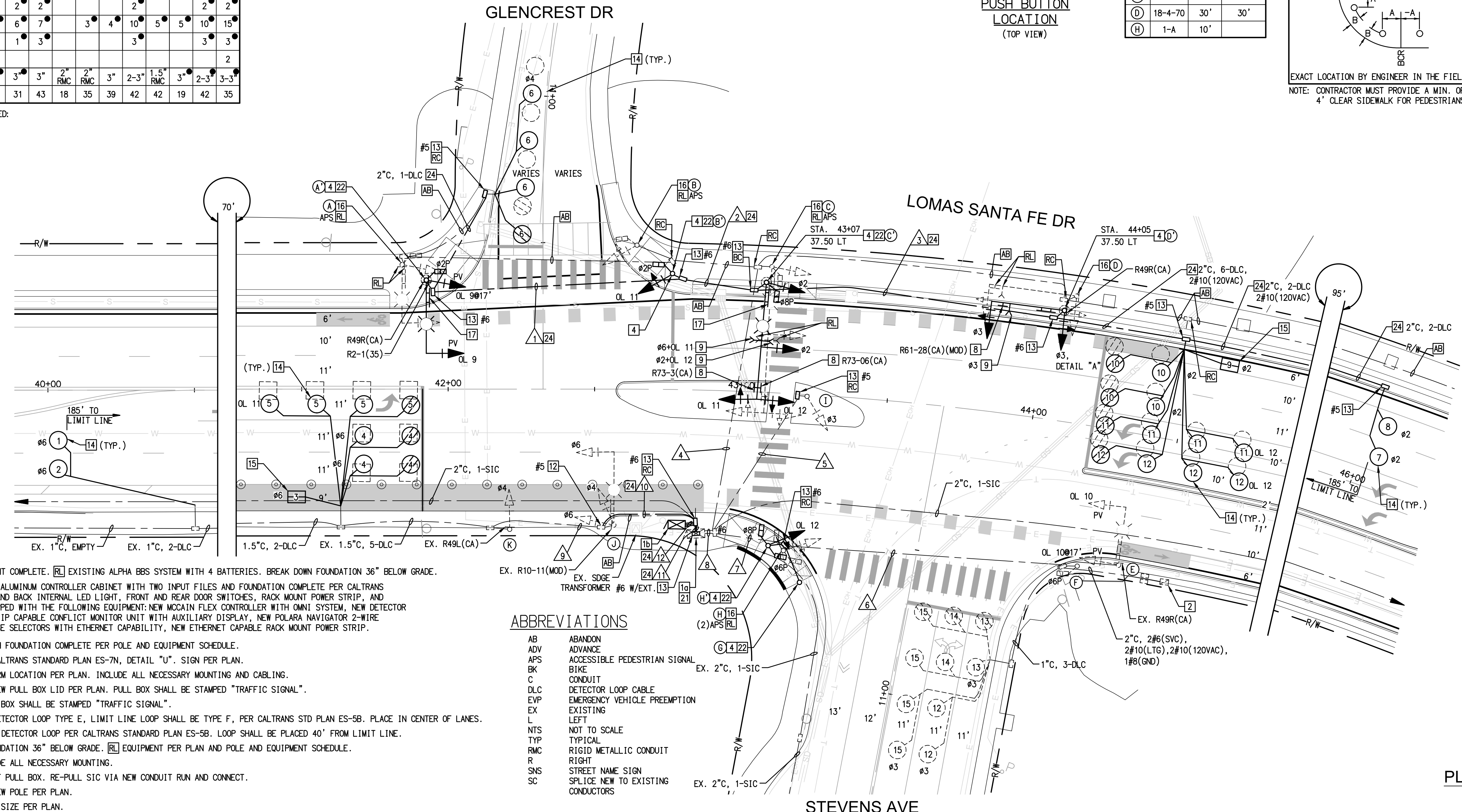


CONSTRUCTION NOTES

- 10) [RS] EXISTING 352L CONTROLLER CABINET AND EQUIPMENT COMPLETE. [RL] EXISTING ALPHA BBS SYSTEM WITH 4 BATTERIES. BREAK DOWN FOUNDATION 36" BELOW GRADE.
- 16) FURNISH AND INSTALL NEW MODEL 3521 ATC ANODIZED ALUMINUM CONTROLLER CABINET WITH TWO INPUT FILES AND FOUNDATION COMPLETE PER CALTRANS STANDARD PLAN ES-3C1. CABINET SHALL HAVE FRONT AND BACK INTERNAL LED LIGHT, FRONT AND REAR DOOR SWITCHES, RACK MOUNT POWER STRIP, AND PULL-OUT DOCUMENT DRAWER. CABINET SHALL BE EQUIPPED WITH THE FOLLOWING EQUIPMENT: NEW MOCAIN FLEX CONTROLLER WITH OMNI SYSTEM, NEW DETECTOR CARDS, NEW DC ISOLATORS, NEW LOAD SWITCHES, NEW IP CAPABLE CONFLICT MONITOR UNIT WITH AUXILIARY DISPLAY, NEW POLARA NAVIGATOR 2-WIRE CONTROL UNIT WITH POWER SUPPLY, NEW GIT 764 PHASE SELECTORS WITH ETHERNET CAPABILITY, NEW ETHERNET CAPABLE RACK MOUNT POWER STRIP.
- 4) FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- 8) FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- 9) [RL] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- 12) [RC] EXISTING PULL BOX LID. FURNISH AND INSTALL NEW PULL BOX LID PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- 13) FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- 14) FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- 15) FURNISH AND INSTALL MODIFIED 4X6" TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- 16) [RS] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. [RL] EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- 17) [RL] EXISTING SNS TO NEW LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING.
- 21) DISCONNECT EXISTING SIC AND PULL BACK TO NEAREST PULL BOX. RE-PULL SIC VIA NEW CONDUIT RUN AND CONNECT.
- 22) [RL] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY TO NEW POLE PER PLAN.
- 24) FURNISH AND INSTALL PVC CONDUIT WITH MULE TAPE, SIZE PER PLAN.

ABBREVIATIONS

- AB ABANDON
- ADV ADVANCE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BK BIKE
- C CONDUIT
- DLC DETECTOR LOOP CABLE
- EVP EMERGENCY VEHICLE PREEMPTION
- EX EXISTING
- L LEFT
- NTS NOT TO SCALE
- TYP TYPICAL
- RMC RIGID METALLIC CONDUIT
- R RIGHT
- SNS STREET NAME SIGN
- SC SPLICE NEW TO EXISTING CONDUCTORS



SCALE: 1"=20'
 AS-BUILT
 PLAN CODE TS-4
 By: _____ Date: _____
 R.C.E.: _____ Exp: _____

	5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRAFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & STEVENS AVE/GLENCREST AVE	ENGINEERING DEPARTMENT	DRAWING NO.
		CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			
								ELEV.: _____ DATUM: M.S.L.	Sheet 54 of 73	

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION