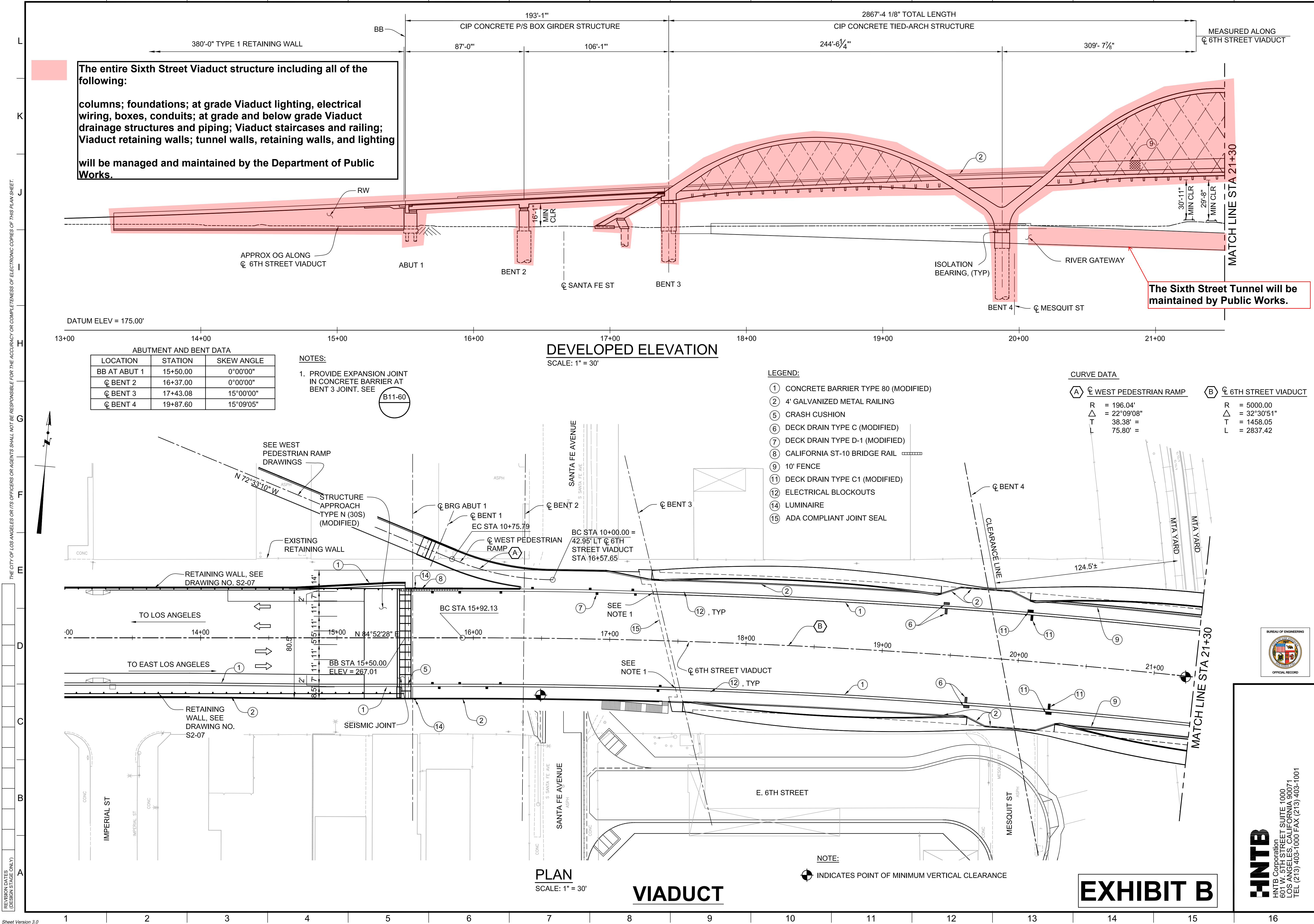


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Sheet Version 3.0

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



The entire Sixth Street Viaduct structure including all of the following:

columns; foundations; at grade Viaduct lighting, electrical wiring, boxes, conduits; at grade and below grade Viaduct drainage structures and piping; Viaduct staircases and railing; Viaduct retaining walls; tunnel walls, retaining walls, and lighting

will be managed and maintained by the Department of Public Works.

The Sixth Street Tunnel will be maintained by Public Works.

ENGINEERING

CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

STRUCTURE NO.

53C-2329

INDEX NO.

P-38113

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER

NO. S3033

EXPIRATION DATE 12/31/16

MICHAEL H. JONES

GARY LEE MOORE, P.E.

CITY ENGINEER

DESIGN GROUP

ENGINEER: MICHAEL H. JONES

DESIGNED BY: MICHAEL H. JONES

DRAWN BY: LI ZHANG

CHECKED BY: TOMAS KOMPFFNER

APPROVED BY: MICHAEL H. JONES

VERTICAL CONTROL: BM 12+4070.1929 (NGVD 29) - 1985 ADJUSTMENT

HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STRUCTURE PLAN NO. 1

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO. E700224F

DRAWING NO.

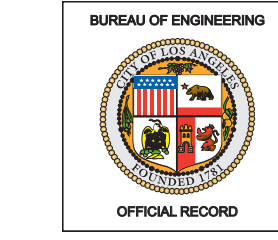
S0-06

SHEET 185 OF 560 SHEETS

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING



HNTB

HNTB Corporation
601 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

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Sheet Version 3.0

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DESIGN DATES
(DESIGN STAGE ONLY)

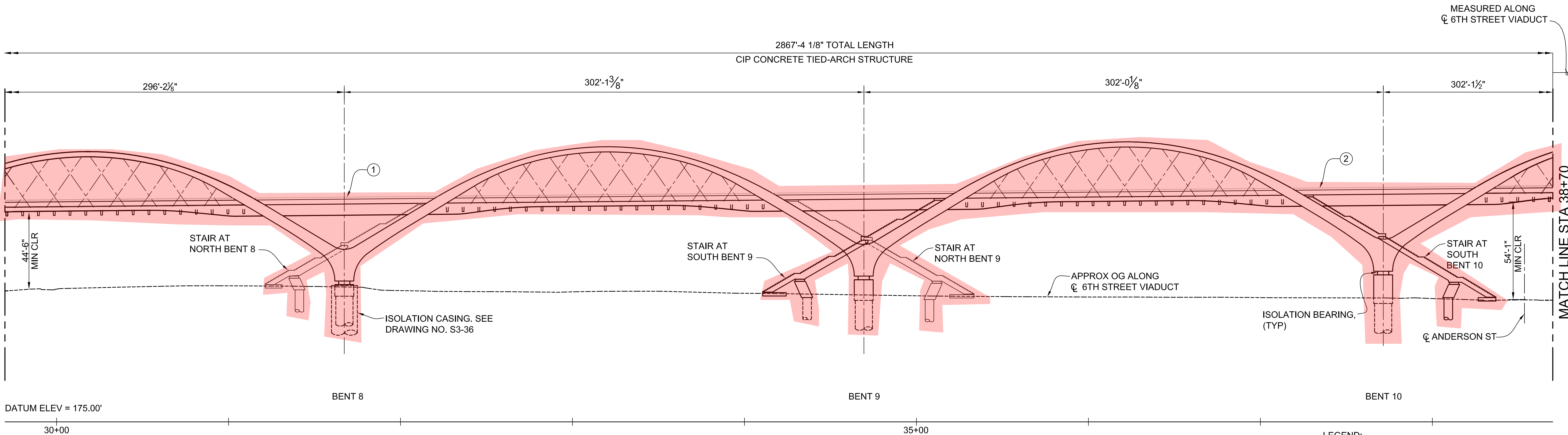
L
K
J
I
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C
B
A

MATCH LINE STA 29+70

MATCH LINE STA 29+70

MATCH LINE STA 38+70

MATCH LINE STA 38+70

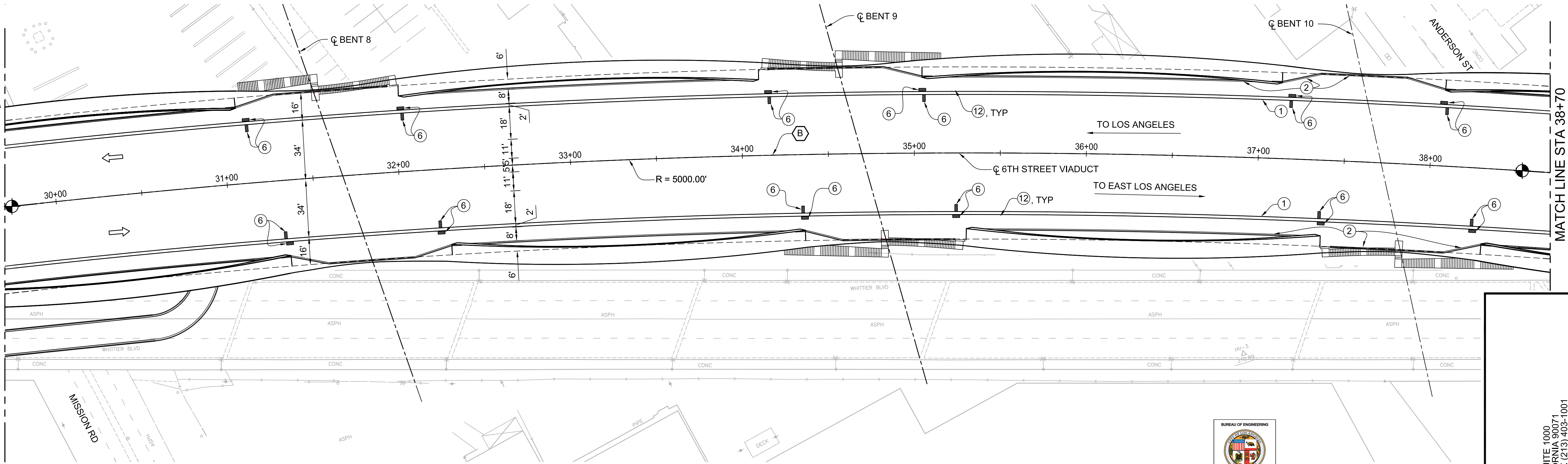


BENT DATA		
LOCATION	STATION	SKEW ANGLE
CL BENT 8	31+67.33	15°07'20"
CL BENT 9	34+69.43	15°07'20"
CL BENT 10	37+71.45	15°07'20"

DEVELOPED ELEVATION

SCALE: 1" = 30'

- LEGEND:
- ① CONCRETE BARRIER TYPE 80 (MODIFIED)
 - ② 4' GALVANIZED METAL RAILING
 - ⑥ DECK DRAIN TYPE C (MODIFIED)
 - ⑦ DECK DRAIN TYPE D-1 (MODIFIED)
 - ⑫ ELECTRICAL BLOCKOUTS

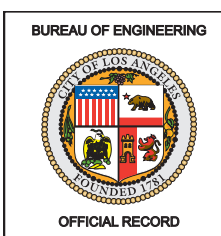


PLAN

SCALE: 1" = 30'

VIADUCT

CURVE DATA	
⑥ CL 6TH STREET VIADUCT	
R	= 5000.00
Δ	= 32°30'51"
T	= 1458.05
L	= 2837.42



NOTE:
INDICATES POINT OF MINIMUM VERTICAL CLEARANCE

EXHIBIT B

HNTB
HNTB Corporation
601 W. 5TH STREET
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

ENGINEERING
CITY OF LOS ANGELES

DATE: BY:
NO. REVISIONS:

STRUCTURE NO.
53C-2329

INDEX NO.
P-38113

THIS PLAN WAS ELECTRONICALLY
SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. JONES
No. S3033
1/29/2016
STATE OF CALIFORNIA

DATE: 1/29/2016
CITY ENGINEER
DESIGN GROUP
ENGINEER: MICHAEL H. JONES
LIC. NO. S3033
DESIGNED BY: MICHAEL H. JONES
DRAWN BY: LI ZHANG
CHECKED BY: TOMAS KOMPNER
APPROVED BY: MICHAEL H. JONES

VERTICAL CONTROL: BM 12-04070: 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STRUCTURE PLAN NO. 3

PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO.
E700224F

DRAWING NO.
S0-08

SHEET 187 OF 560 SHEETS

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

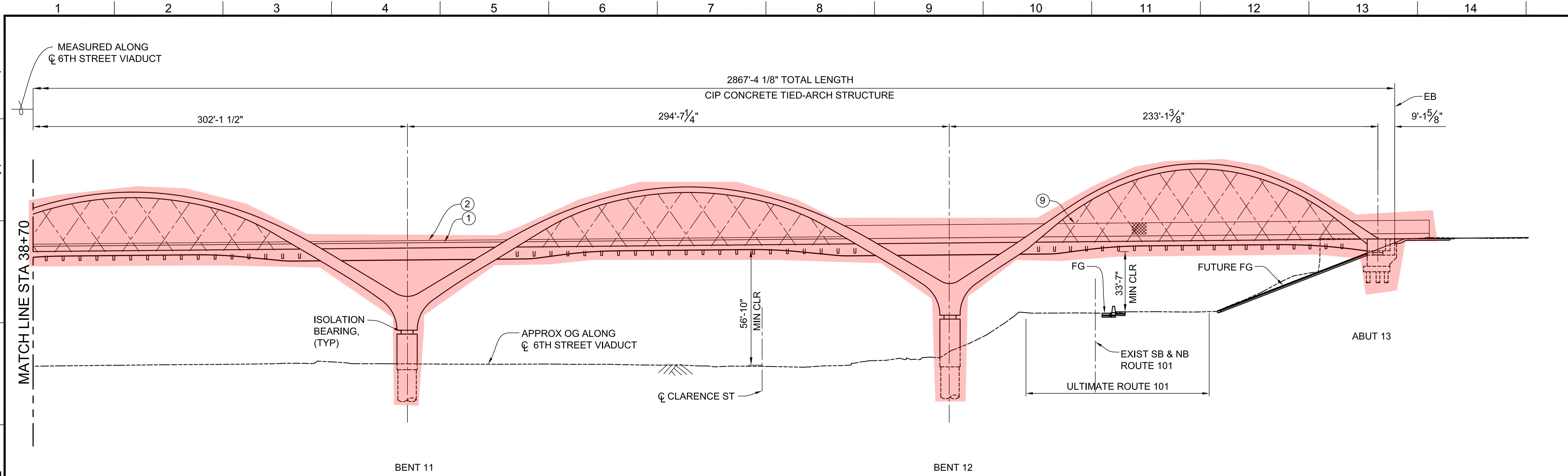
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REVISION DATES
(DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MEASURED ALONG
CL 6TH STREET VIADUCT

L
K
J
I
H
G
F
E
D
C
B
A



ABUTMENT AND BENT DATA		
LOCATION	STATION	SKEW ANGLE
CL BENT 11	40+73.58	15°07'21"
CL BENT 12	43+68.18	15°03'00"
CL OF BRG ABUT 13	46+01.29	15°00'00"

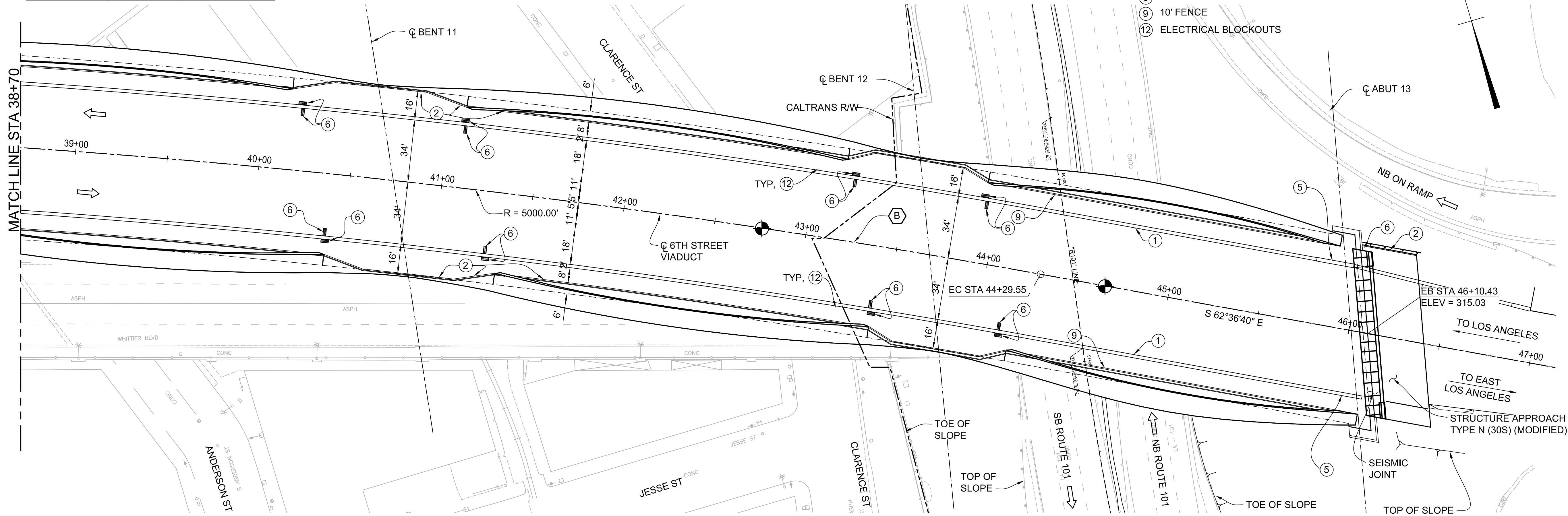
DEVELOPED ELEVATION
SCALE: 1" = 30'

- LEGEND:**
- ① CONCRETE BARRIER TYPE 80 (MODIFIED)
 - ② 4' GALVANIZED METAL RAILING
 - ⑤ CRASH CUSHION
 - ⑥ DECK DRAIN TYPE C (MODIFIED)
 - ⑨ 10' FENCE
 - ⑫ ELECTRICAL BLOCKOUTS

CURVE DATA

B CL 6TH STREET VIADUCT

R = 5000.00
Δ = 32°30'51"
T = 1458.05
L = 2837.42



PLAN
SCALE: 1" = 30'

VIADUCT

NOTE:
● INDICATES POINT OF MINIMUM VERTICAL CLEARANCE

EXHIBIT B

HNTB
HNTB Corporation
601 W. 5TH STREET, SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001



ENGINEERING
CITY OF LOS ANGELES

DATE: BY:
NO. REVISIONS:

STRUCTURE NO. **53C-2329**

INDEX NO. **P-38113**

BUREAU OF ENGINEERING

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. JONES
No. S3033
EXPIRATION DATE 12/31/16
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E.
CITY ENGINEER
DESIGN GROUP

ENGINEER: MICHAEL H. JONES
DESIGNED BY: MICHAEL H. JONES
DRAWN BY: LI ZHANG
CHECKED BY: TOMAS KOMPNER
APPROVED BY: MICHAEL H. JONES

DATE: 1/29/2016
LIC. NO. S3033
1/29/2016
1/29/2016
1/29/2016

CITY OF LOS ANGELES

VERTICAL CONTROL: BM 12+04070: 1929 (NGVD 29) - 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: **STRUCTURE PLAN NO. 4**

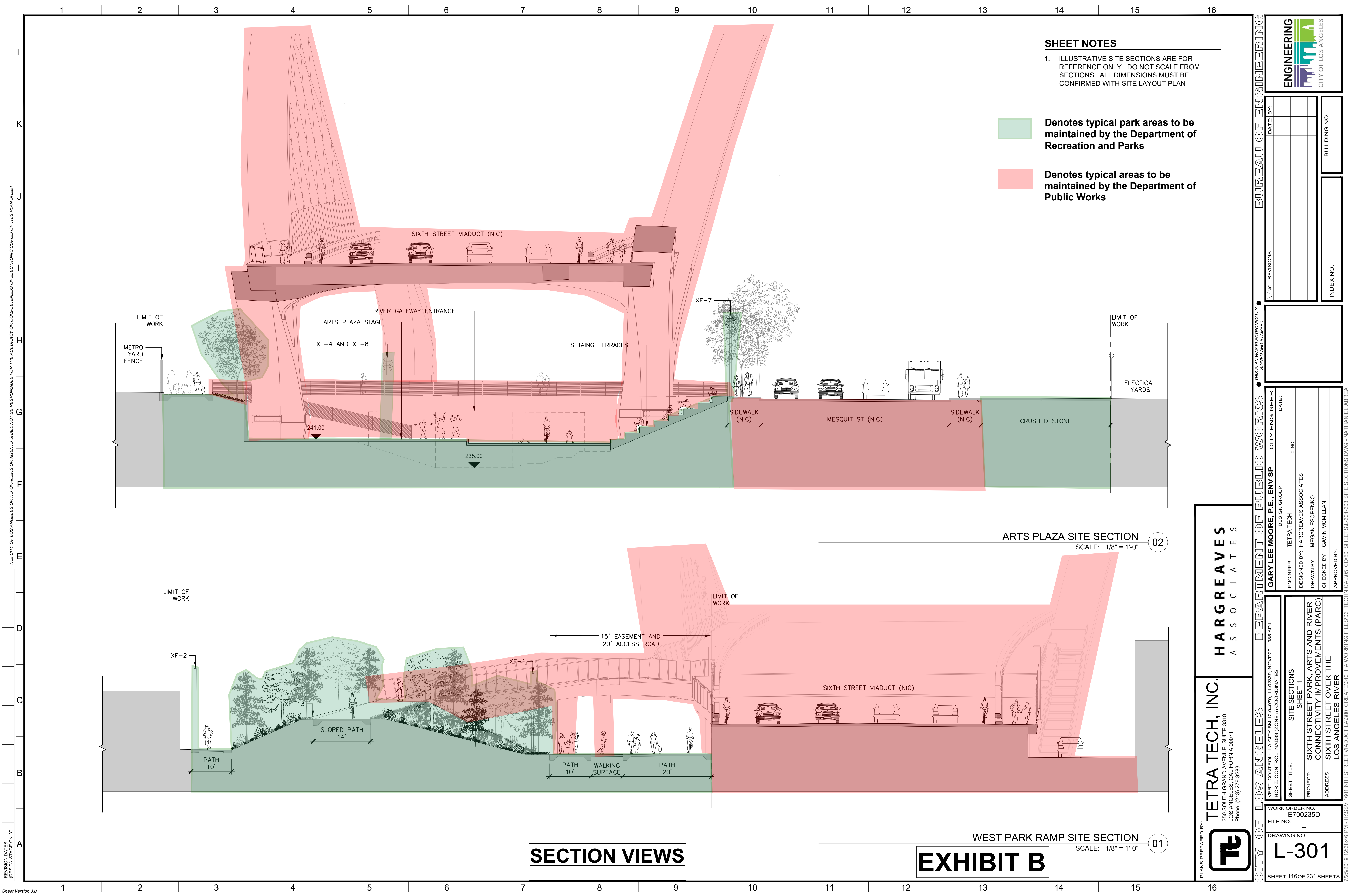
PROJECT: **SIXTH STREET VIADUCT REPLACEMENT**

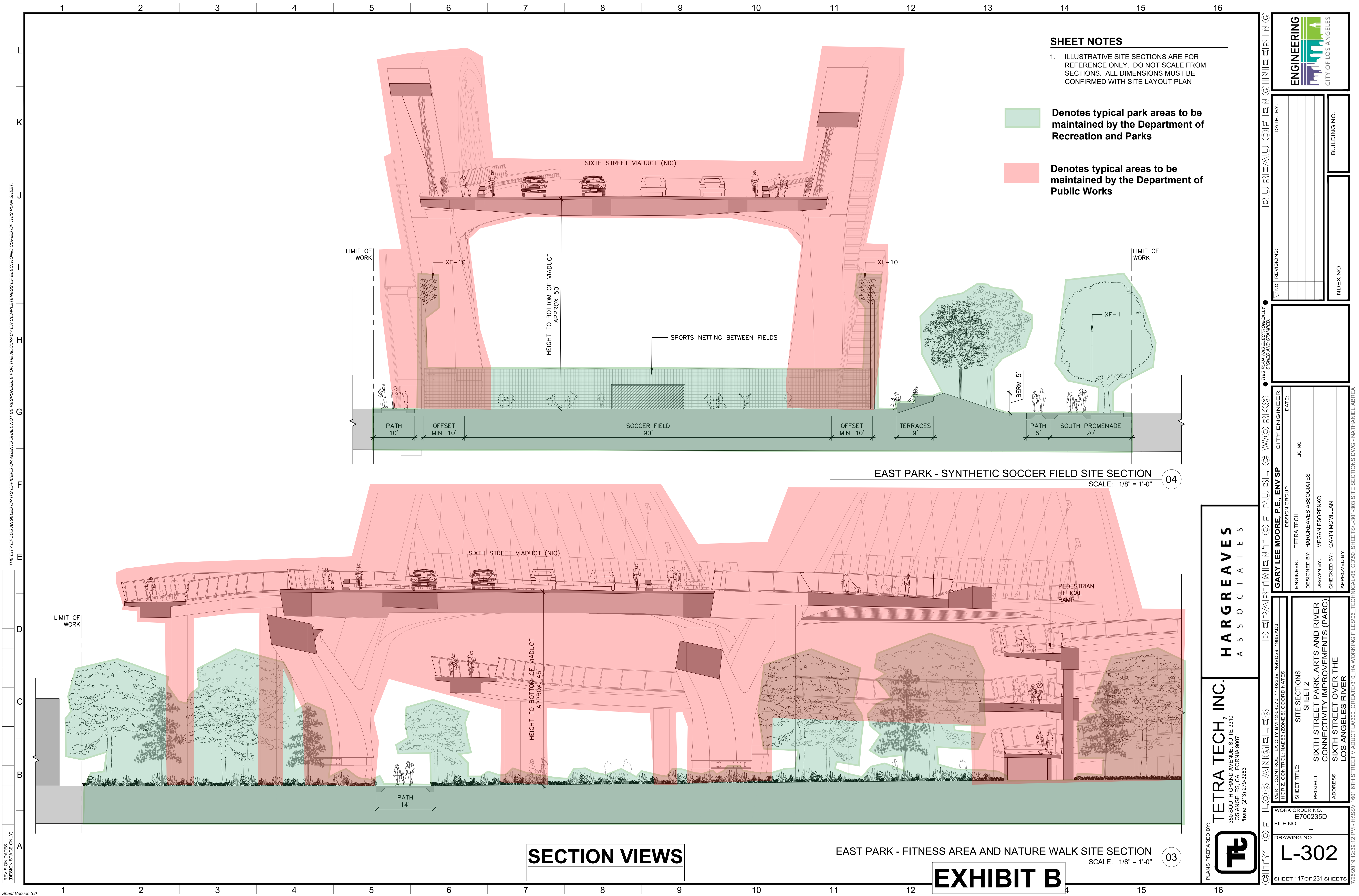
ADDRESS: **SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA**

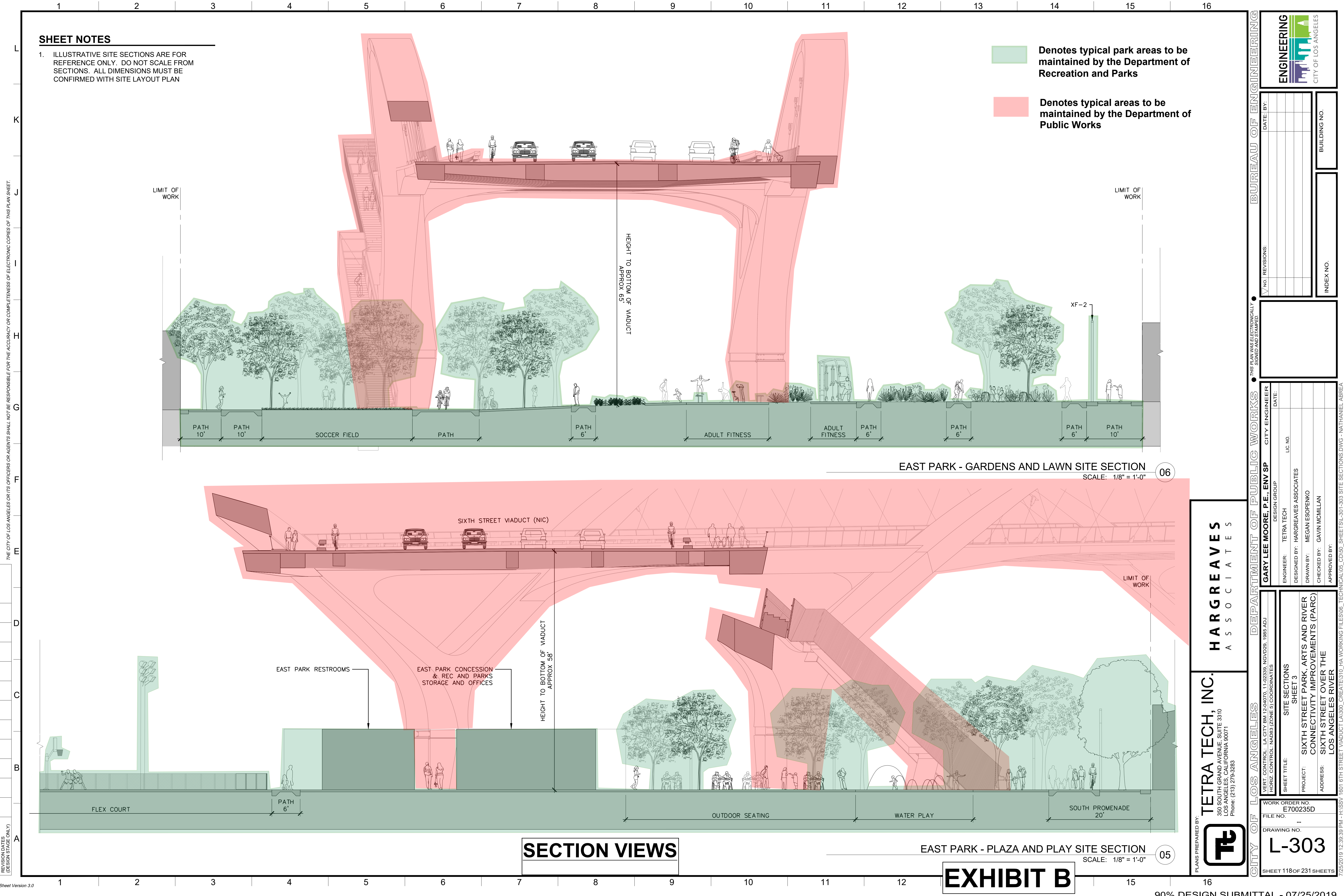
WORK ORDER NO. **E700224F**

DRAWING NO. **S0-09**

SHEET 188 OF 560 SHEETS







SHEET NOTES

1. ILLUSTRATIVE SITE SECTIONS ARE FOR REFERENCE ONLY. DO NOT SCALE FROM SECTIONS. ALL DIMENSIONS MUST BE CONFIRMED WITH SITE LAYOUT PLAN

Denotes typical park areas to be maintained by the Department of Recreation and Parks

Denotes typical areas to be maintained by the Department of Public Works

EAST PARK - GARDENS AND LAWN SITE SECTION

SCALE: 1/8" = 1'-0"

06

SECTION VIEWS

EAST PARK - PLAZA AND PLAY SITE SECTION

SCALE: 1/8" = 1'-0"

05

EXHIBIT B

HARGREAVES
ASSOCIATES

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-5263



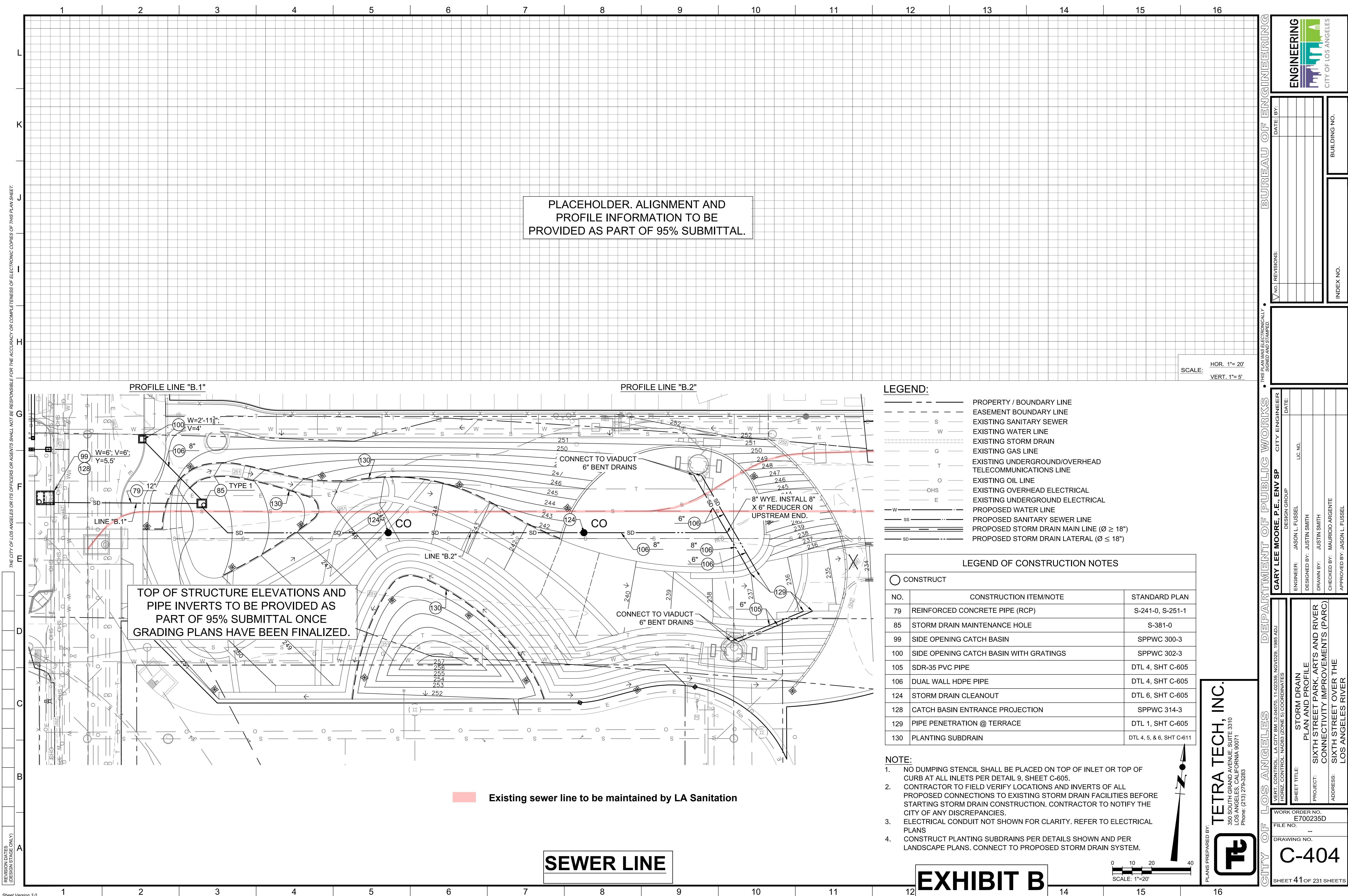
VERT. CONTROL: LA CITY BM 12-04070, 11-02339, NGVD29, 1985 ADJ	DESIGN GROUP	CITY ENGINEER	DATE
HORIZ. CONTROL: NAD83 (ZONE 9) COORDINATES	TETRA TECH	GARY LEE MOORE, P.E., ENV SP	
SHEET TITLE:	DESIGNED BY: HARGREAVES ASSOCIATES	ENGINEER:	LIC. NO.
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)	DRAWN BY: MEGAN ESOPENKO	DESIGNED BY:	
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER	CHECKED BY: GAVIN MCILLAN	DRAWN BY:	
WORK ORDER NO. E700235D	APPROVED BY:	CHECKED BY:	
FILE NO. 1		APPROVED BY:	
DRAWING NO. L-303			
SHEET 118 OF 231 SHEETS			

BUREAU OF ENGINEERING	
NO. REVISIONS:	DATE: BY:
1	
2	
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9	
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16	
INDEX NO.	BUILDING NO.



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REVISION DATES (DESIGN STAGE ONLY)



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REVISION DATES
(DESIGN STAGE ONLY)

BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

DATE: BY: INDEX NO. BUILDING NO.

NO. REVISIONS:

DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E., ENV SP

DESIGN GROUP

ENGINEER: JASON L. FUSSELL
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: MAURICIO ARGENTE
APPROVED BY: JASON L. FUSSELL

DATE: LIC. NO.

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-5263

PLANS PREPARED BY:

VERT. CONTROL: LA CITY BM 12-04070, 11-02339, NGVD29, 1985 ADJ
HORIZ. CONTROL: NAD83 (ZONE 9) COORDINATES

SHEET TITLE:
STORM DRAIN
PLAN AND PROFILE

PROJECT:
SIXTH STREET PARK, ARTS AND RIVER
CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS:
SIXTH STREET OVER THE
LOS ANGELES RIVER

WORK ORDER NO.
E700235D

FILE NO.

DRAWING NO.
C-404

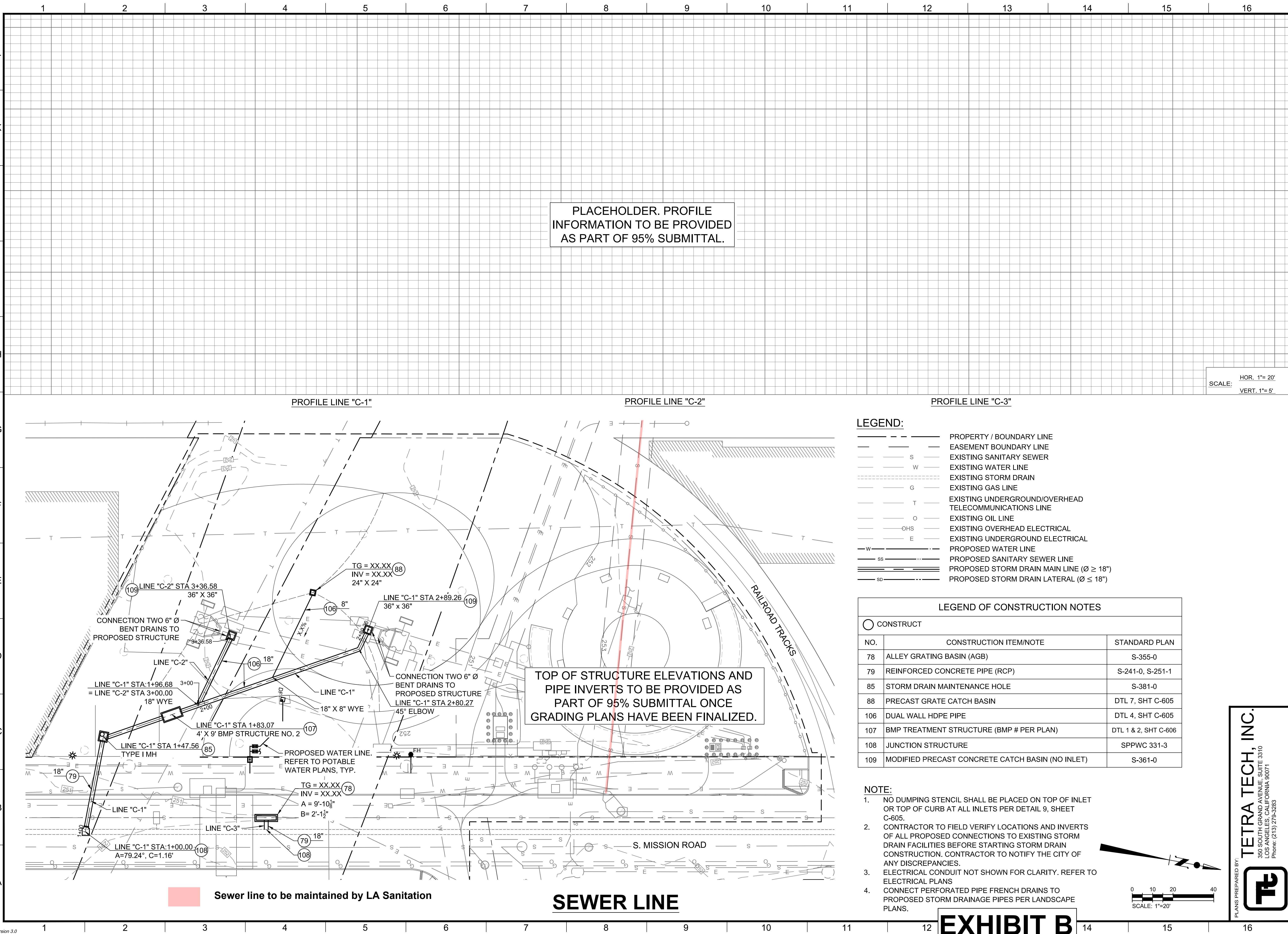
SHEET 41 OF 231 SHEETS

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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0



LEGEND:

---	PROPERTY / BOUNDARY LINE
---	EASEMENT BOUNDARY LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER LINE
---	EXISTING STORM DRAIN
---	EXISTING GAS LINE
---	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
---	EXISTING OIL LINE
---	EXISTING OVERHEAD ELECTRICAL
---	EXISTING UNDERGROUND ELECTRICAL
---	PROPOSED WATER LINE
---	PROPOSED SANITARY SEWER LINE
---	PROPOSED STORM DRAIN MAIN LINE ($\phi \geq 18"$)
---	PROPOSED STORM DRAIN LATERAL ($\phi \leq 18"$)

LEGEND OF CONSTRUCTION NOTES

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
78	ALLEY GRATING BASIN (AGB)	S-355-0
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
106	DUAL WALL HDPE PIPE	DTL 4, SHT C-605
107	BMP TREATMENT STRUCTURE (BMP # PER PLAN)	DTL 1 & 2, SHT C-606
108	JUNCTION STRUCTURE	SPPWC 331-3
109	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0

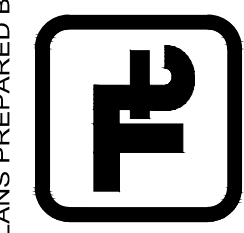
NOTE:

- NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
- CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
- ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS
- CONNECT PERFORATED PIPE FRENCH DRAINS TO PROPOSED STORM DRAINAGE PIPES PER LANDSCAPE PLANS.

SCALE: HOR. 1"= 20'
VERT. 1"= 5'

0 10 20 40
SCALE: 1"=20'

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-5263



ENGINEERING
CITY OF LOS ANGELES

DATE: BY: REVISIONS: INDEX NO. BUILDING NO.

DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP

ENGINEER: JASON L. FUSSELL
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: MAURICIO ARGENTE
APPROVED BY: JASON L. FUSSELL

STORM DRAIN
PLAN AND PROFILE
SIXTH STREET PARK, ARTS AND RIVER
CONNECTIVITY IMPROVEMENTS (PARC)
SIXTH STREET OVER THE
LOS ANGELES RIVER

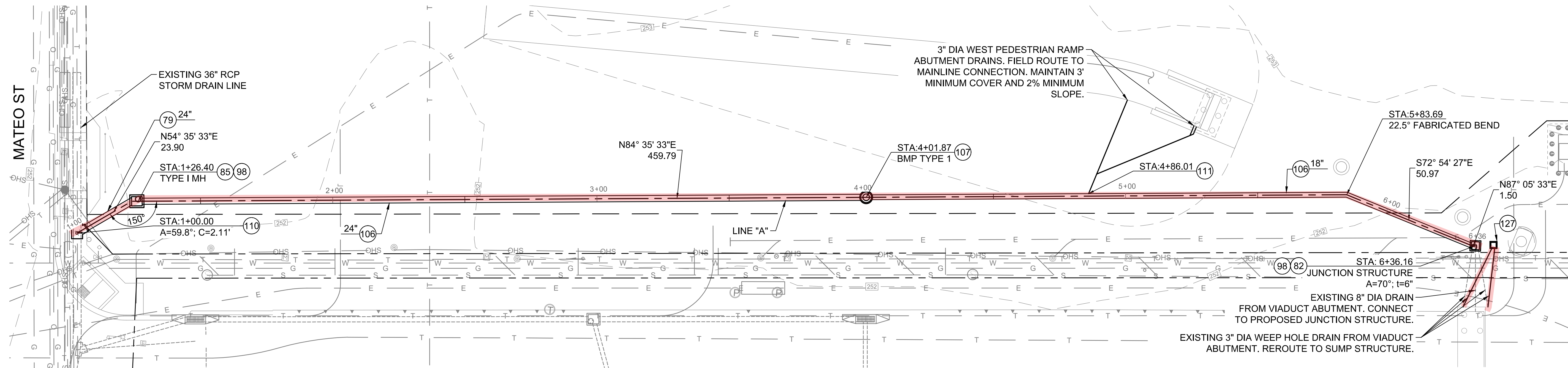
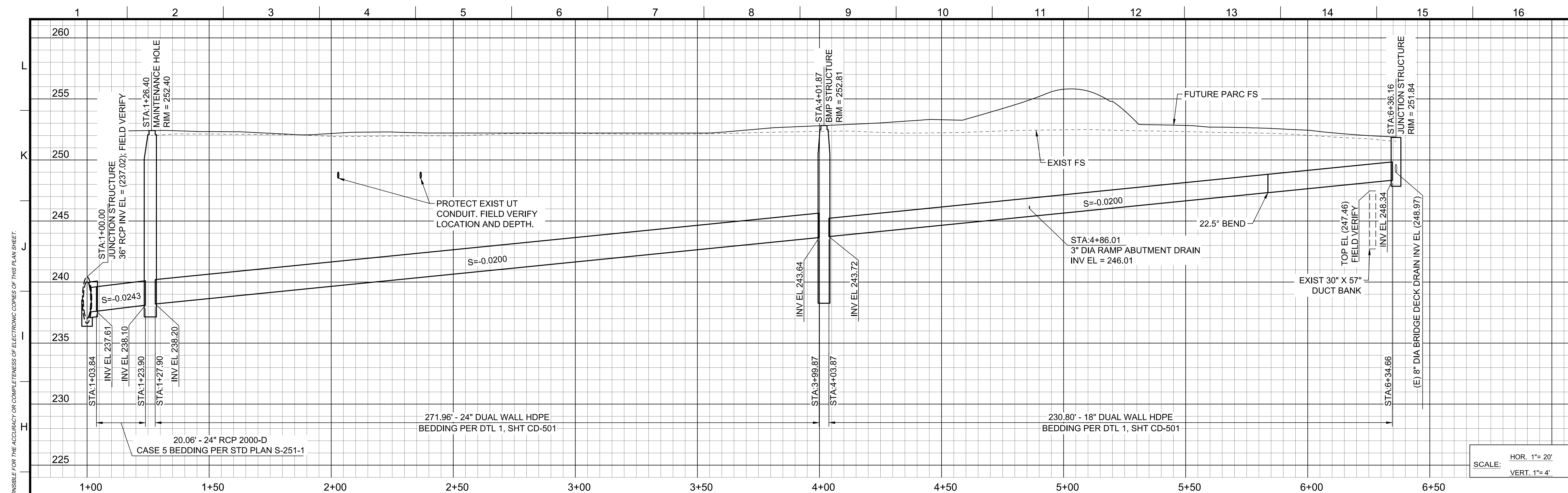
WORK ORDER NO. E700235D
FILE NO. DRAWING NO. C-405
SHEET 42 OF 231 SHEETS

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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0



LEGEND:

---	PROPERTY / BOUNDARY LINE
---	EASEMENT BOUNDARY LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER LINE
---	EXISTING STORM DRAIN
---	EXISTING GAS LINE
---	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
---	EXISTING OIL LINE
---	EXISTING OVERHEAD ELECTRICAL
---	EXISTING UNDERGROUND ELECTRICAL
---	PROPOSED WATER LINE
---	PROPOSED SANITARY SEWER LINE
---	PROPOSED STORM DRAIN MAIN LINE

NOTE:

- CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
- LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.

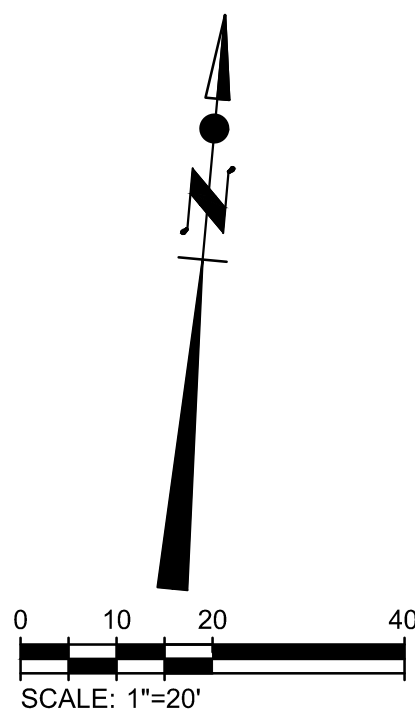
Storm drain lines to be maintained by Public Works, LA Sanitation

STORM DRAINS

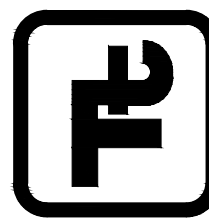
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
82	JUNCTION STRUCTURE "A"	S-300-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
98	MONOLITHIC CONNECTION	S-331-1
106	DUAL WALL HDPE PIPE	DTL 1, SHT CD-501
107	BMP TREATMENT STRUCTURE TYPE 1	DTL 1, SHT CD-502
110	JUNCTION STRUCTURE "B"	SPPWC 331-3
111	TAPPED CONNECTION - FERNCO QWIKSEAL COUPLER OR APPROVED EQUAL	-
127	WEEP DRAIN DRAINAGE SUMP STRUCTURE	DTL 2, SHT CD-501



TETRA TECH, INC.
707 WILSHIRE BLVD., 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

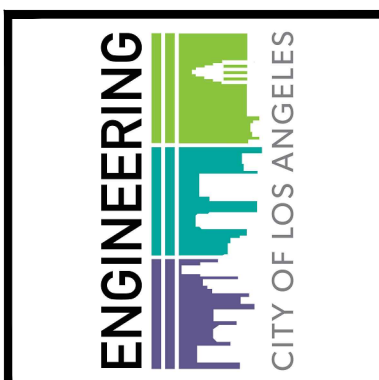


BUREAU OF ENGINEERING

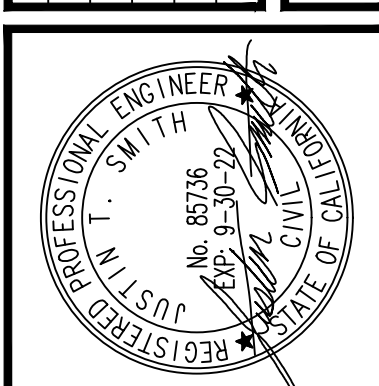
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES



DATE:	
NO. REVISIONS:	
INDEX NO.	
STRUCTURE NO.	



ENGINEER:	JUSTIN SMITH	CITY ENGINEER	DATE:	09/29/21
DESIGNED BY:	JUSTIN SMITH	DESIGN GROUP	DATE:	09/29/21
DRAWN BY:	JUSTIN SMITH		DATE:	09/29/21
CHECKED BY:	AARON YONKER		DATE:	09/29/21
APPROVED BY:	JASON L. FUSSELL		DATE:	09/29/21

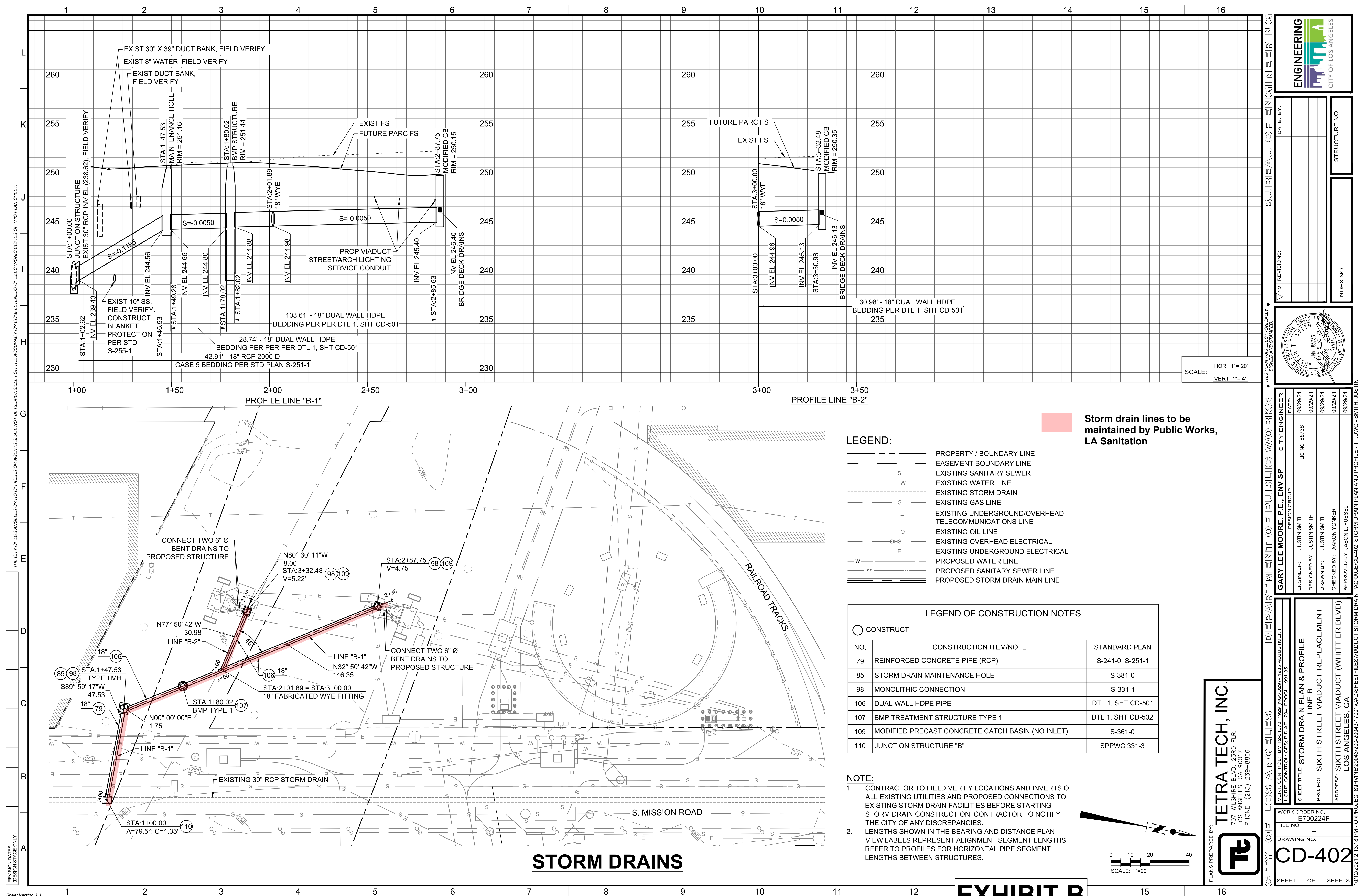
SHEET TITLE:	STORM DRAIN PLAN & PROFILE
PROJECT:	SIXTH STREET VIADUCT REPLACEMENT
ADDRESS:	SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA

WORK ORDER NO.	E700224F	
FILE NO.	--	
DRAWING NO.	CD-401	
SHEET	OF	SHEETS

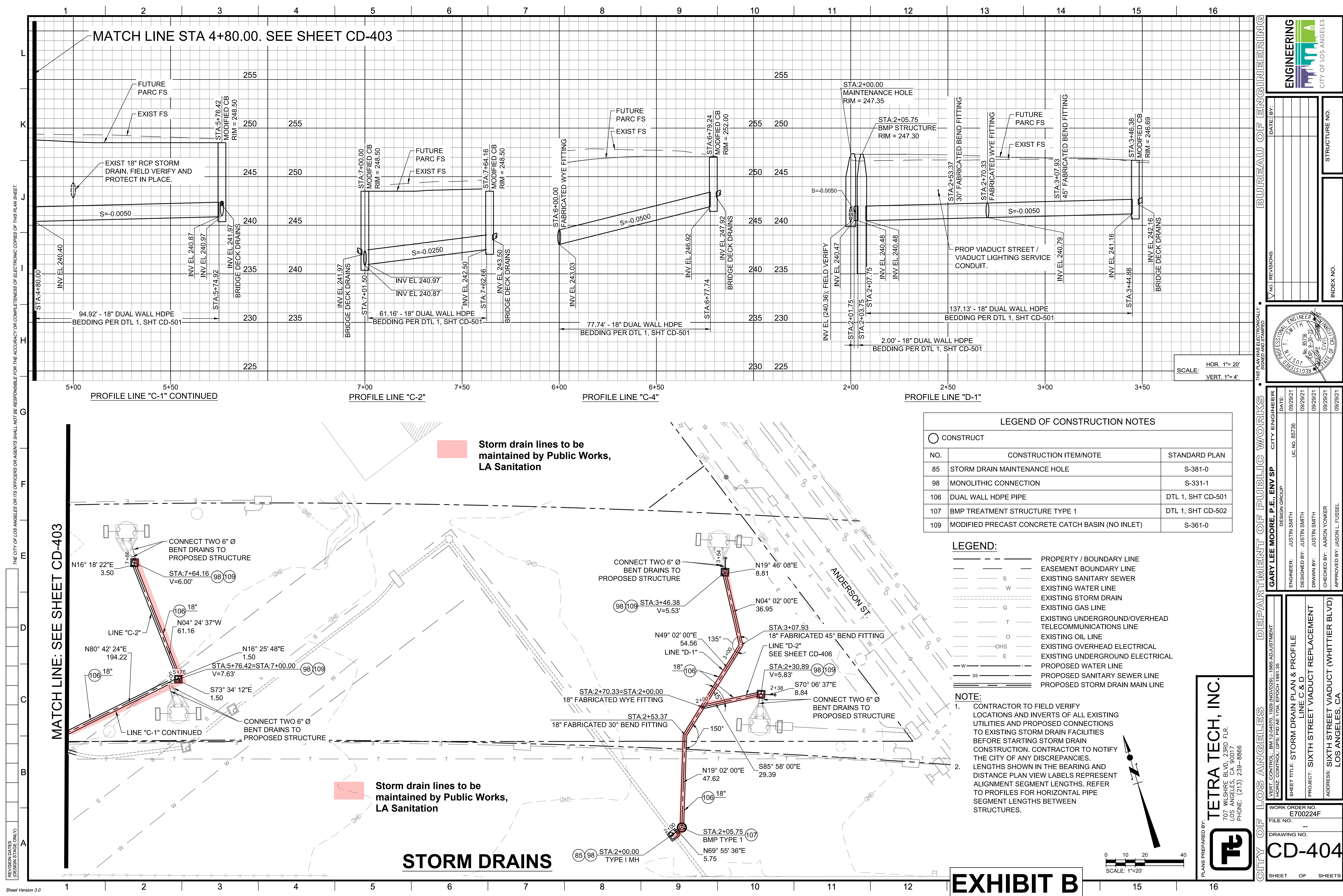
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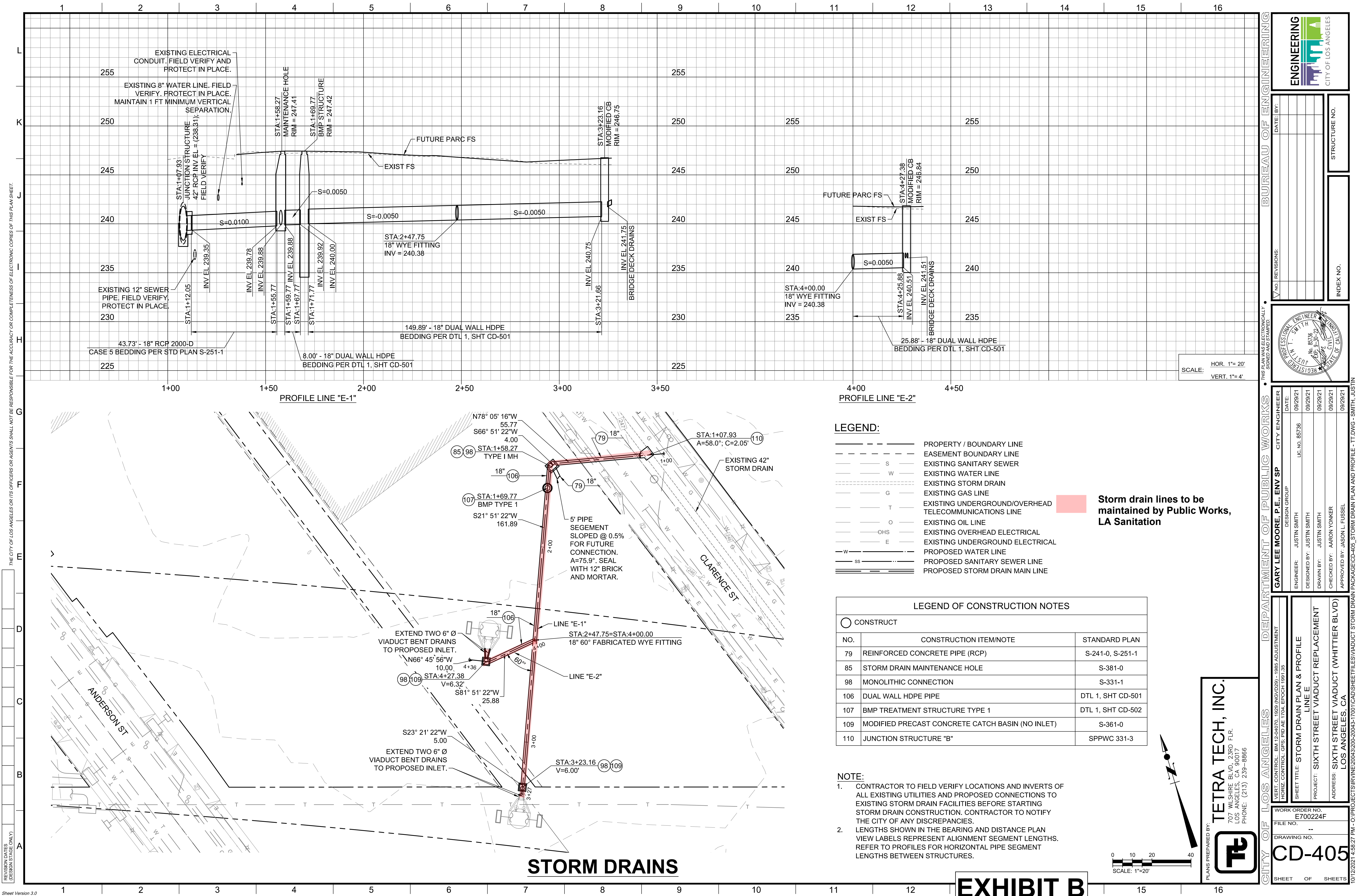
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EXHIBIT B





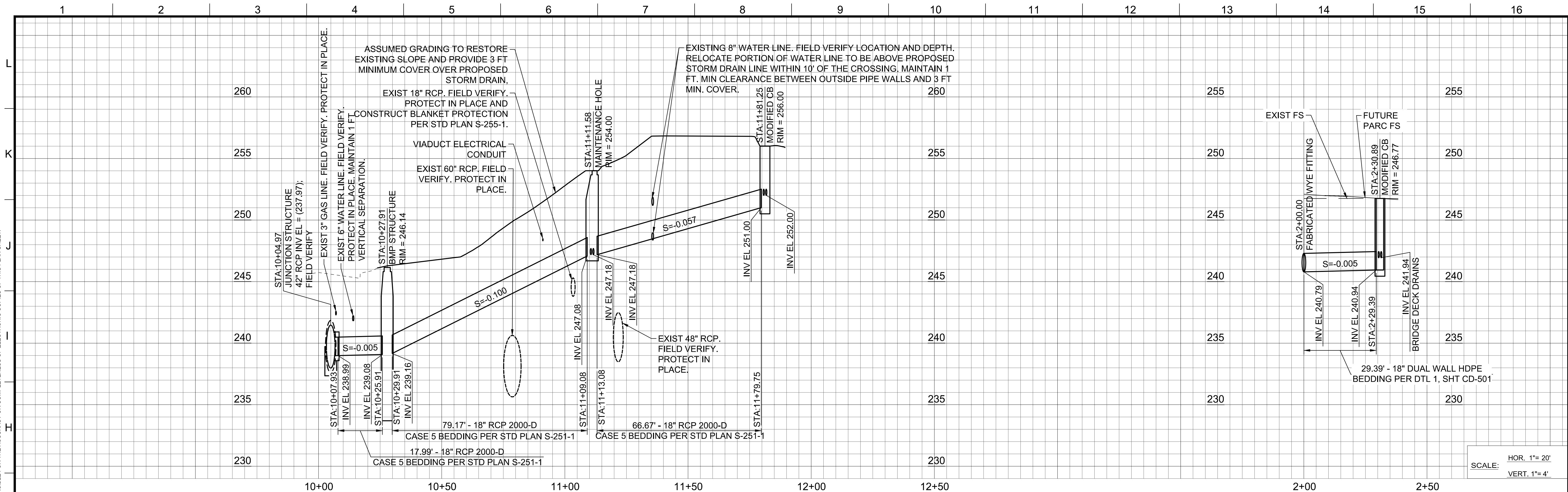




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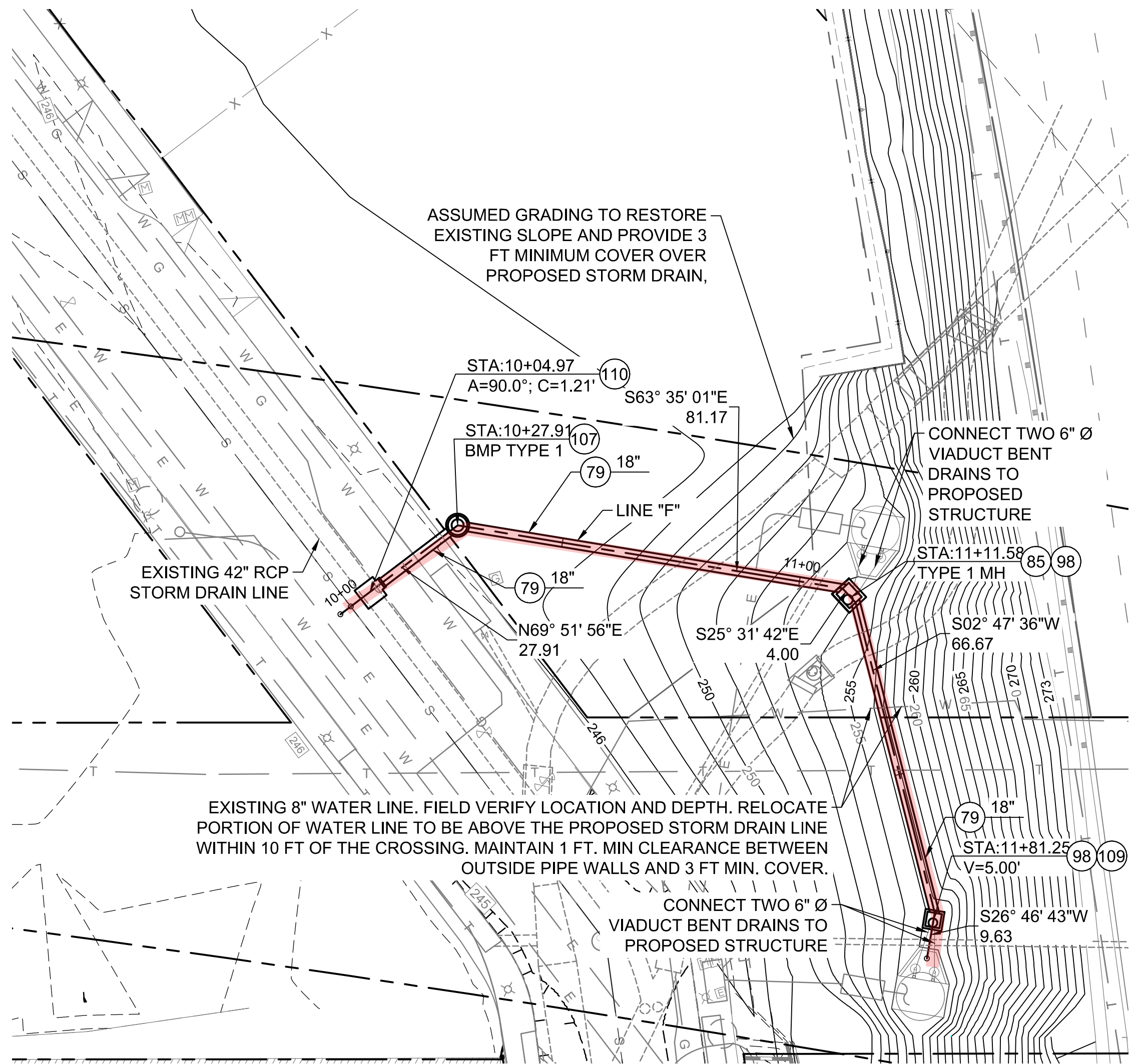
DESIGN DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0



PROFILE LINE "F"

PROFILE LINE "D-2"



STORM DRAINS

LEGEND:

---	PROPERTY / BOUNDARY LINE
---	EASEMENT BOUNDARY LINE
---	EXISTING SANITARY SEWER
---	EXISTING WATER LINE
---	EXISTING STORM DRAIN
---	EXISTING GAS LINE
---	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
---	EXISTING OIL LINE
---	EXISTING OVERHEAD ELECTRICAL
---	EXISTING UNDERGROUND ELECTRICAL
---	PROPOSED WATER LINE
---	PROPOSED SANITARY SEWER LINE
---	PROPOSED STORM DRAIN MAIN LINE

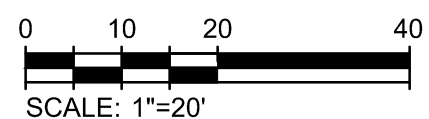
Storm drain lines to be maintained by Public Works, LA Sanitation

LEGEND OF CONSTRUCTION NOTES

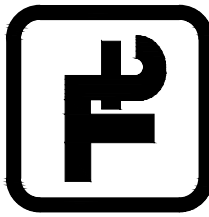
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
98	MONOLITHIC CONNECTION	S-331-1
107	BMP TREATMENT STRUCTURE TYPE 1	DTL 1, SHT CD-502
109	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0
110	JUNCTION STRUCTURE "B"	SPPWC 331-3

NOTE:

- CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
- LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.



PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD., 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866



ENGINEERING
CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

INDEX NO.

STRUCTURE NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
JUSTIN T. SMITH
No. 85736
Exp. 12-31-22
CIVIL
STATE OF CALIF.

GARY LEE MOORE, P.E., ENV SP
DESIGN GROUP

ENGINEER: JUSTIN SMITH
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: AARON YONKER
APPROVED BY: JASON L. FUSSEL

DATE: 09/29/21
LIC. NO. 88736

DEPARTMENT OF PUBLIC WORKS

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1981.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE
LINE F
PROJECT: SIXTH STREET VIADUCT REPLACEMENT
ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

WORK ORDER NO. E700224F
FILE NO. **
DRAWING NO. CD-406

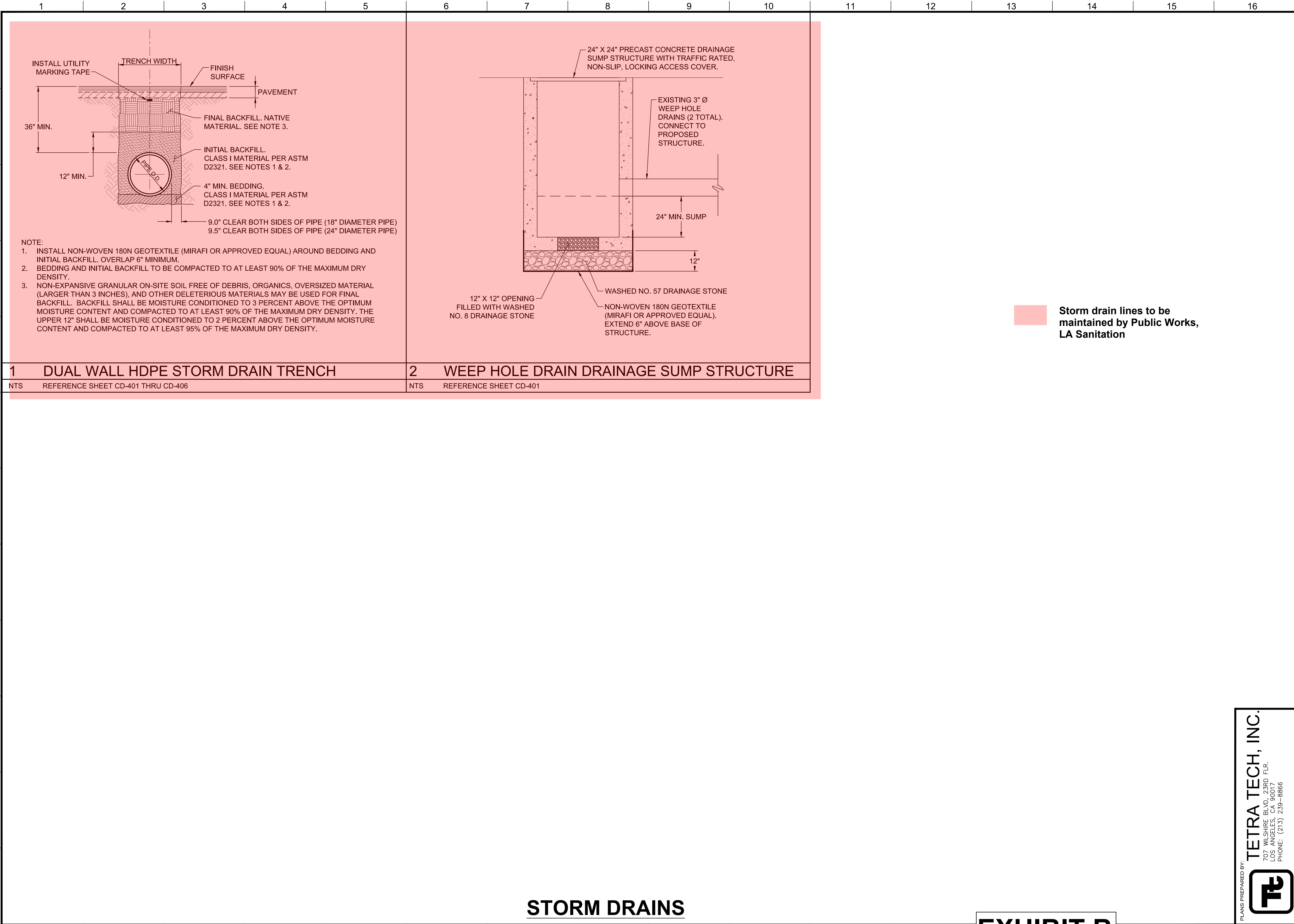
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THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

DESIGN DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0



STORM DRAINS

EXHIBIT B

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD., 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

ENGINEERING
CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

STRUCTURE NO.

INDEX NO.

REGISTERED PROFESSIONAL ENGINEER
JUSTIN T. SMITH
No. 85736
Exp. 12-31-20
CIVIL
STATE OF CALIF.

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP
DESIGN GROUP

ENGINEER: JUSTIN SMITH
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: AARON YONKER
APPROVED BY: JASON L. FUSSEL

DATE: 09/29/21
LIC. NO. 85736
09/29/21
09/29/21
09/29/21
09/29/21

WORK ORDER NO.
E700224F

FILE NO.
..

DRAWING NO.
CD-501

SHEET OF SHEETS

VERT. CONTROL: BM 12-04070 - 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1981.35

SHEET TITLE:
CIVIL DETAILS
SHEET 1

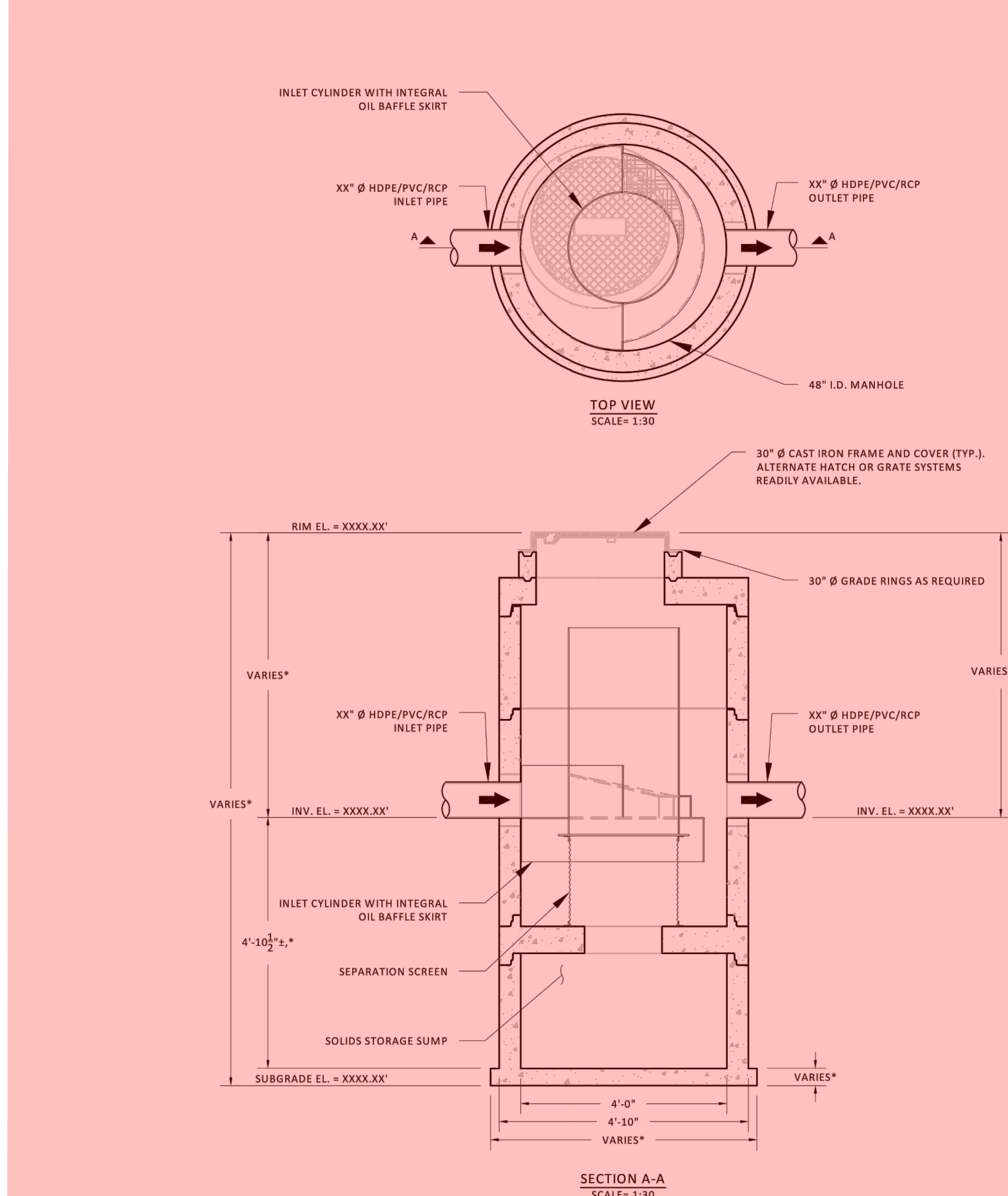
PROJECT: SIXTH STREET VIADUCT REPLACEMENT

ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

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DESIGN DATES (DESIGN STAGE ONLY)



JENSEN DEFLECTIVE SEPARATOR, MODEL JDS48-2418

HYDRAULICS AND TREATMENT

STORMWATER QUALITY DESIGN FLOW (SQDF)	≤ 0.7 - CFS
STORM DRAIN DESIGN CONVEYANCE FLOW	XX-XX - CFS
RETURN FREQUENCY/PERIOD OF PEAK DESIGN CONVEYANCE FLOW	XXXX - YRS
SUGGEST MAXIMUM INTERNAL BYPASS FLOW	≤ 7.0 - CFS

STORMWATER TREATMENT UNIT EMPLOYING THE CONTINUOUS DEFLECTIVE SEPARATION TREATMENT PROCESS TO PRODUCE A NON-BLOCKING SCREENING SYSTEM WITH SWIRL CONCENTRATION. THIS HYDRODYNAMIC SEPARATION TREATMENT IS EQUIPPED WITH AN INTERNAL BYPASS THAT PROVIDES COMPLETE BYPASS OF STORM DRAIN PIPELINE CONVEYANCE FLOW WITHOUT SCOUR OF CAPTURED GROSS SOLIDS.

TREATMENT

- CERTIFIED FOR 100% CAPTURE FOR TRASH & DEBRIS BY CALIFORNIA STATE WATER RESOURCES CONTROL BOARD.
- CERTIFIED FOR 50% TOTAL SUSPENDED SOLIDS (TSS) REMOVAL BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- JENSEN DEFLECTIVE SEPARATOR IS A NON-BLOCKING SCREENING UNIT.
- JENSEN DEFLECTIVE SEPARATOR DESIGNED TO PROCESS ENTIRE SQDF.
- CAPTURE OF OTHER WATER QUALITY CONSTITUENTS INCLUDE:
 - TOTAL SUSPENDED SOLIDS (TSS)
 - HEAVY METALS
 - OIL & GREASE
 - NUTRIENTS
 - FECAL COLIFORM

GENERAL NOTES

- STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READILY AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS, www.jensenengineersystems.com.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
- FOUNDATION, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OTHERS.
- GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
- JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
- OUTLET INVERT ELEVATION TYPICALLY SET EQUAL TO INLET ELEVATION OR SET 1" LOWER THAN INLET.

INSTALLATION NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
- PRECAST CONCRETE JOINTS TO BE SEALED USING BUTYL RUBBER COMPOUND SUPPLIED BY JENSEN PRECAST.
- CONTRACTOR TO GROUT ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
- CONTRACTOR TO ADJUST ELEVATION OF FRAME AND COVER IN FIELD AS NECESSARY.

MATERIALS

- ALL DIMENSIONS ARE IN FOOT-INCH.
- PRECAST MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ASTM C-478, C-857 AND LACSD 5-A-206, WHEN IN LA COUNTY.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH $F_c = 5,000$ psi AT 28-DAYS.
- THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE I/IV HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM CLASS M C-150.
- MANHOLE COMPONENTS CONFORM TO CURRENT SPECIFICATIONS, ASTM, C-478 AND AASHTO M199.
- FLAT TOPS AND BASE SLABS ARE DESIGNED FOR AASHTO HS-20 WHEEL LOADING.
- ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN NFPA CERTIFIED PLANT.

QTY	COMPONENT DESCRIPTION	RESPONSIBLE PROVIDER	RESPONSIBLE INSTALLER
1	SEPARATION SCREEN AND INLET CYLINDER	JENSEN	CONTRACTOR
1	XX" Ø HOPE/PVC/RCP INLET PIPE	CONTRACTOR	JENSEN
1	XX" Ø HOPE/PVC/RCP OUTLET PIPE	CONTRACTOR	JENSEN
1	30" Ø CAST IRON FRAME AND COVER, H20 RATED	JENSEN	CONTRACTOR
X	3" TALL 36" Ø GRADE RINGS	JENSEN	CONTRACTOR
X	6" TALL 36" Ø GRADE RING	JENSEN	CONTRACTOR

(*) REGIONAL MANUFACTURING DIFFERENCE

THESE ARE TEMPLATE SITE DESIGN DRAWINGS. JOINTS ORIENTATIONS, AND FINAL SEPARATION AND BASE SLAB THICKNESS VARY ACROSS JENSEN'S REGIONAL MANUFACTURING FACILITIES. CONFIRM FINAL JOINT ORIENTATION AND THICKNESS PER CONSTRUCTION SUBMITTAL DRAWINGS. ADJUST FINAL DIMENSIONS TO EXTERIOR INVERT AND SUBGRADE ELEVATION PER REGION DIFFERENCES.

MODEL: JDS48-2418 JENSEN DEFLECTIVE SEPARATOR	PROJECT: PROJECT NAME PROJECT LOCATION	 121 DUNN CIRCLE, SPARKS, NV 89431-6312 (877) 440-0095 FAX (775) 440-2033 www.jensenengineersystems.com
HYDRODYNAMIC SEPARATOR (HDS), SWIRL CONCENTRATING, FULL CAPTURE, NON-BLOCKING SCREENING UNIT	ORL DWG. DATE XX/XX/XXXX	REV. DWG. DATE XX/XX/XXXX
	SCALE AS SHOWN	SHEET SIZE 11" X 17"
		DRAWN BY X.XXXX
		SHEET NUMBER JDS48-2418

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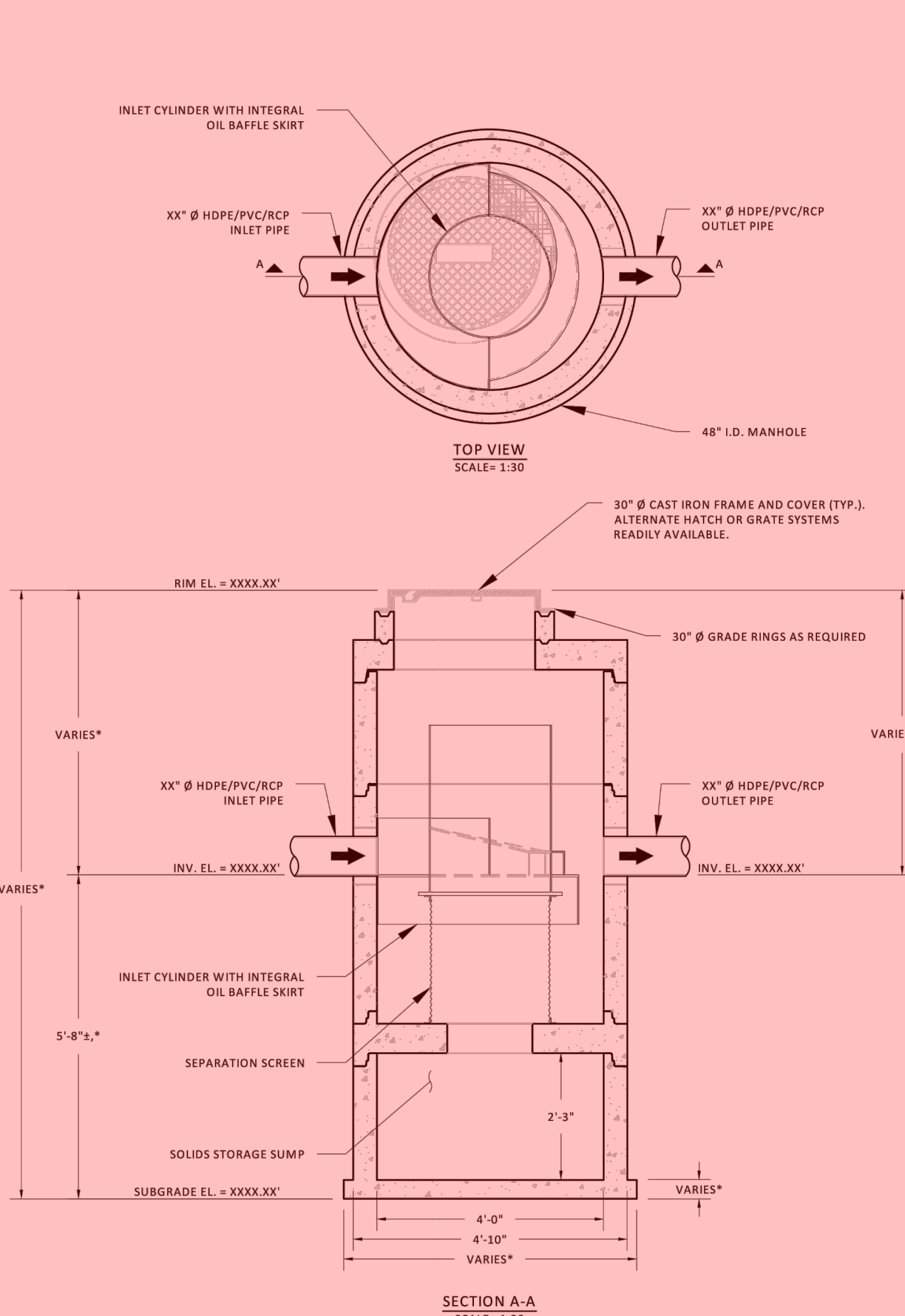
NOTE:

- HYDRODYNAMIC SEPARATOR SHALL BE JENSEN PRECAST MODEL JDS48-2418 OR APPROVED EQUAL.
- REFER TO THE PLANS FOR PIPE SIZES, PIPE TYPES, INVERT ELEVATIONS, RIM ELEVATIONS, ETC. FINAL PRECAST SECTION DIMENSIONS PER MANUFACTURER. RIM ELEVATION TO SUMP ELEVATION SHALL NOT EXCEED 25 FEET.
- SUMP OPENING SHALL BE 18" IN DIAMETER MINIMUM.
- STANDARD DETAIL SHALL BE MODIFIED SO THAT THE 30" Ø FRAME AND COVER IS CENTERED IN THE TOP SLAB.
- REFER TO DETAIL 3, THIS SHEET FOR SUBGRADE PREPARATION.
- PRIOR TO INSTALLING THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP, THE CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$ " MINIMUM THICKNESS) TO THE BASE OF THE SUMP STORAGE TO SLOPE THE SURFACE 2% MINIMUM TO THE CENTER OF THE STRUCTURE.
- CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$ " MINIMUM THICKNESS) TO THE TOP OF THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP TO SLOPE THE SURFACE 2% MINIMUM TO OUTLET SIDE OF THE STRUCTURE.

Storm drain lines to be maintained by Public Works, LA Sanitation

1 BMP PRETREATMENT STRUCTURE TYPE 1

NTS REFERENCE SHEET CD-401, CD-402, CD-404, CD-405, & CD-406



JENSEN DEFLECTIVE SEPARATOR, MODEL JDS48-2424

HYDRAULICS AND TREATMENT

STORMWATER QUALITY DESIGN FLOW (SQDF)	≤ 1.1 - CFS
STORM DRAIN DESIGN CONVEYANCE FLOW	XX-XX - CFS
RETURN FREQUENCY/PERIOD OF PEAK DESIGN CONVEYANCE FLOW	XXXX - YRS
SUGGEST MAXIMUM INTERNAL BYPASS FLOW	≤ 7.0 - CFS

STORMWATER TREATMENT UNIT EMPLOYING THE CONTINUOUS DEFLECTIVE SEPARATION TREATMENT PROCESS TO PRODUCE A NON-BLOCKING SCREENING SYSTEM WITH SWIRL CONCENTRATION. THIS HYDRODYNAMIC SEPARATION TREATMENT IS EQUIPPED WITH AN INTERNAL BYPASS THAT PROVIDES COMPLETE BYPASS OF STORM DRAIN PIPELINE CONVEYANCE FLOW WITHOUT SCOUR OF CAPTURED GROSS SOLIDS.

TREATMENT

- CERTIFIED FOR 100% CAPTURE FOR TRASH & DEBRIS BY CALIFORNIA STATE WATER RESOURCES CONTROL BOARD.
- CERTIFIED FOR 50% TOTAL SUSPENDED SOLIDS (TSS) REMOVAL BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- JENSEN DEFLECTIVE SEPARATOR IS A NON-BLOCKING SCREENING UNIT.
- JENSEN DEFLECTIVE SEPARATOR DESIGNED TO PROCESS ENTIRE SQDF.
- CAPTURE OF OTHER WATER QUALITY CONSTITUENTS INCLUDE:
 - TOTAL SUSPENDED SOLIDS (TSS)
 - HEAVY METALS
 - OIL & GREASE
 - NUTRIENTS
 - FECAL COLIFORM

GENERAL NOTES

- STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READILY AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS, www.jensenengineersystems.com.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
- FOUNDATION, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OTHERS.
- GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
- JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
- OUTLET INVERT ELEVATION TYPICALLY SET EQUAL TO INLET ELEVATION OR SET 1" LOWER THAN INLET.

INSTALLATION NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
- PRECAST CONCRETE JOINTS TO BE SEALED USING BUTYL RUBBER COMPOUND SUPPLIED BY JENSEN PRECAST.
- CONTRACTOR TO GROUT ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
- CONTRACTOR TO ADJUST ELEVATION OF FRAME AND COVER IN FIELD AS NECESSARY.

MATERIALS

- ALL DIMENSIONS ARE IN FOOT-INCH.
- PRECAST MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ASTM C-478, C-857 AND LACSD 5-A-206, WHEN IN LA COUNTY.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH $F_c = 5,000$ psi AT 28-DAYS.
- THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE I/IV HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM CLASS M C-150.
- MANHOLE COMPONENTS CONFORM TO CURRENT SPECIFICATIONS, ASTM, C-478 AND AASHTO M199.
- FLAT TOPS AND BASE SLABS ARE DESIGNED FOR AASHTO HS-20 WHEEL LOADING.
- ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN NFPA CERTIFIED PLANT.

QTY	COMPONENT DESCRIPTION	RESPONSIBLE PROVIDER	RESPONSIBLE INSTALLER
1	SEPARATION SCREEN AND INLET CYLINDER	JENSEN	CONTRACTOR
1	XX" Ø HOPE/PVC/RCP INLET PIPE	CONTRACTOR	JENSEN
1	XX" Ø HOPE/PVC/RCP OUTLET PIPE	CONTRACTOR	JENSEN
1	30" Ø CAST IRON FRAME AND COVER, H20 RATED	JENSEN	CONTRACTOR
X	3" TALL 36" Ø GRADE RINGS	JENSEN	CONTRACTOR
X	6" TALL 36" Ø GRADE RING	JENSEN	CONTRACTOR

(*) REGIONAL MANUFACTURING DIFFERENCE

THESE ARE TEMPLATE SITE DESIGN DRAWINGS. JOINTS ORIENTATIONS, AND FINAL SEPARATION AND BASE SLAB THICKNESS VARY ACROSS JENSEN'S REGIONAL MANUFACTURING FACILITIES. CONFIRM FINAL JOINT ORIENTATION AND THICKNESS PER CONSTRUCTION SUBMITTAL DRAWINGS. ADJUST FINAL DIMENSIONS TO EXTERIOR INVERT AND SUBGRADE ELEVATION PER REGION DIFFERENCES.

MODEL: JDS48-2424 JENSEN DEFLECTIVE SEPARATOR	PROJECT: PROJECT NAME PROJECT LOCATION	 121 DUNN CIRCLE, SPARKS, NV 89431-6312 (877) 440-0095 FAX (775) 440-2033 www.jensenengineersystems.com
HYDRODYNAMIC SEPARATOR (HDS), SWIRL CONCENTRATING, FULL CAPTURE, NON-BLOCKING SCREENING UNIT	ORL DWG. DATE XX/XX/XXXX	REV. DWG. DATE XX/XX/XXXX
	SCALE AS SHOWN	SHEET SIZE 11" X 17"
		DRAWN BY X.XXXX
		SHEET NUMBER JDS48-2424

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NOTE:

- HYDRODYNAMIC SEPARATOR SHALL BE JENSEN PRECAST MODEL JDS48-2424 OR APPROVED EQUAL.
- REFER TO THE PLANS FOR PIPE SIZES, PIPE TYPES, INVERT ELEVATIONS, RIM ELEVATIONS, ETC. FINAL PRECAST SECTION DIMENSIONS PER MANUFACTURER. RIM ELEVATION TO SUMP ELEVATION SHALL NOT EXCEED 25 FEET.
- SUMP OPENING SHALL BE 18" IN DIAMETER MINIMUM.
- STANDARD DETAIL SHALL BE MODIFIED SO THAT THE 30" Ø FRAME AND COVER IS CENTERED IN THE TOP SLAB.
- REFER TO DETAIL 3, THIS SHEET FOR SUBGRADE PREPARATION.
- PRIOR TO INSTALLING THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP, THE CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$ " MINIMUM THICKNESS) TO THE BASE OF THE SUMP STORAGE TO SLOPE THE SURFACE 2% MINIMUM TO THE CENTER OF THE STRUCTURE.
- CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$ " MINIMUM THICKNESS) TO THE TOP OF THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP TO SLOPE THE SURFACE 2% MINIMUM TO OUTLET SIDE OF THE STRUCTURE.

18" CRUSHED AGGREGATE BASE COMPACTED TO AT LEAST 95% MAX. DRY DENSITY

8" SUBGRADE SCARIFIED, MOISTURE CONDITIONED TO 3% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90% MAX. DRY DENSITY

2.5' OVEREXCAVATION, MOISTURE CONDITIONING TO 3% ABOVE OPTIMUM MOISTURE CONTENT, AND RECOMPACTION TO AT LEAST 95% MAX DRY DENSITY

2 BMP PRETREATMENT STRUCTURE TYPE 2

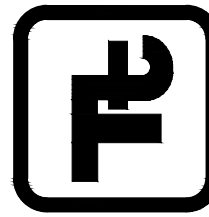
NTS REFERENCE SHEET CD-403

3 SUBGRADE PREPARATION

NTS REFERENCE SHEET CD-401 THRU CD-406

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD., 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866



ENGINEERING
CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

STRUCTURE NO.

INDEX NO.

BUREAU OF ENGINEERING

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
JUSTIN L. SMITH
No. 8516
Exp. 12-31-20
CIVIL
STATE OF CALIF.

DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E., ENV SP
DESIGN GROUP

DATE: 09/29/21
ENGINEER: JUSTIN SMITH
LIC. NO. 88736
DESIGNED BY: JUSTIN SMITH
09/29/21
DRAWN BY: JUSTIN SMITH
09/29/21
CHECKED BY: AARON YONKER
09/29/21
APPROVED BY: JASON L. FUSSELL
09/29/21

CIVIL DETAILS SHEET 2
PROJECT: SIXTH STREET VIADUCT REPLACEMENT
ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD)
LOS ANGELES, CA

VERT. CONTROL: BM 12-04070 - 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1981.35

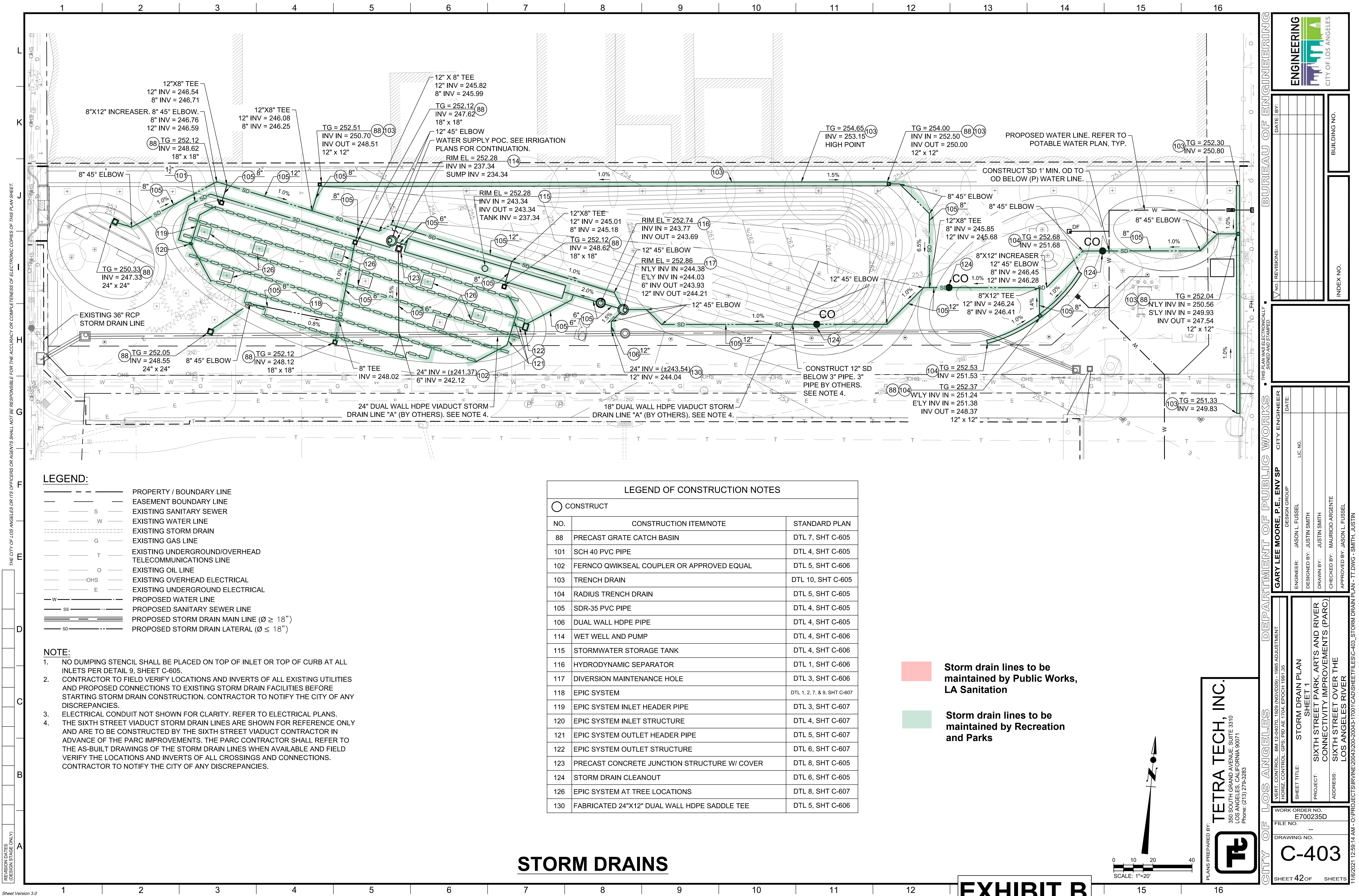
WORK ORDER NO. E700224F
FILE NO.

DRAWING NO.

CD-502

SHEET OF SHEETS

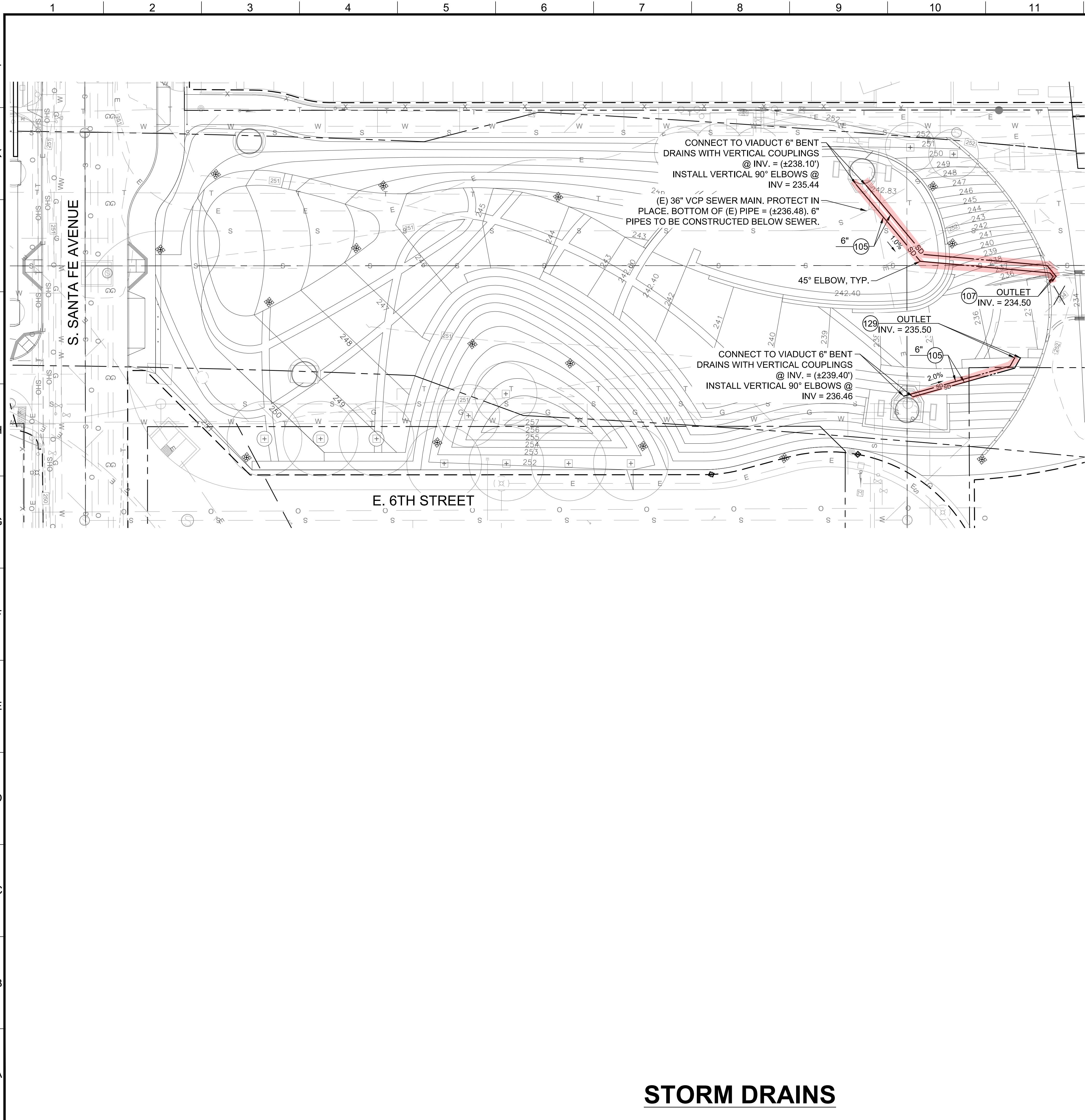
10/12/2021 12:54:56 PM - O:\PROJECTS\IIRVINE\2004\3200-2004\3-17001\CAD\SHEETFILES\VIADUCT STORM DRAIN PACKAGE\CD-502_CIVIL DETAILS - T.L.DWG - SMITH, JUSTIN



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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0



LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- S EXISTING SANITARY SEWER
- W EXISTING WATER LINE
- EXISTING STORM DRAIN
- G EXISTING GAS LINE
- T EXISTING UNDERGROUND/OVERHEAD
TELECOMMUNICATIONS LINE
- O EXISTING OIL LINE
- OHS EXISTING OVERHEAD ELECTRICAL
- E EXISTING UNDERGROUND ELECTRICAL
- W PROPOSED WATER LINE
- SS PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE ($\varnothing \geq 18"$)
- SD PROPOSED STORM DRAIN LATERAL ($\varnothing \leq 18"$)

LEGEND OF CONSTRUCTION NOTES

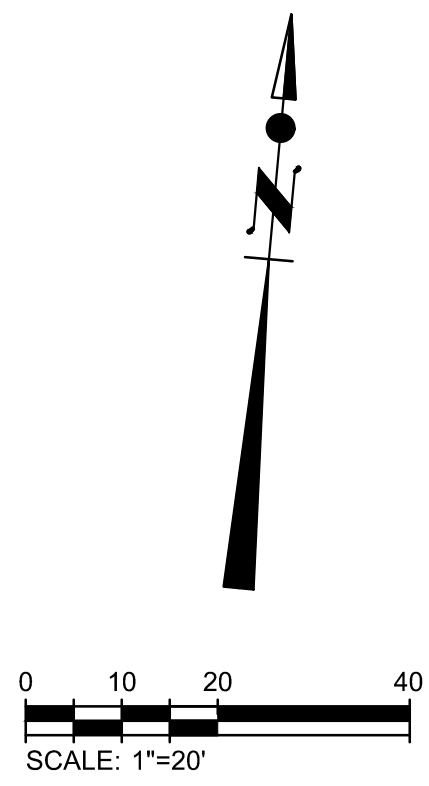
LEGEND OF CONSTRUCTION NOTES		
○ CONSTRUCT		
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
107	PIPE PENETRATION @ SLOUGH WALL	DTL 8, SHT C-611
129	PIPE PENETRATION @ TERRACE	DTL 1, SHT C-605

NOTE:

- NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
- CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
- ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS ONLY AND ARE TO BE CONSTRUCTED BY THE SIXTH STREET VIADUCT CONTRACTOR IN ADVANCE OF THE PARC IMPROVEMENTS. THE PARC CONTRACTOR SHALL REFER TO THE AS-BUILT DRAWINGS OF THE STORM DRAIN LINES WHEN AVAILABLE AND FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL CROSSINGS AND CONNECTIONS. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.

Storm drain lines to be
maintained by Public Works,
LA Sanitation

Storm drain lines to be
maintained by Recreation
and Parks



PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-5263



ENGINEERING
CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

BUILDING NO.

INDEX NO.

DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP
DESIGN GROUP

ENGINEER: JASON L. FUSSEL
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: MAURICIO ARGENTE
APPROVED BY: JASON L. FUSSEL

VERT. CONTROL: BM 12-04070 - 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PD AE 1704, EPOCH 1981.35

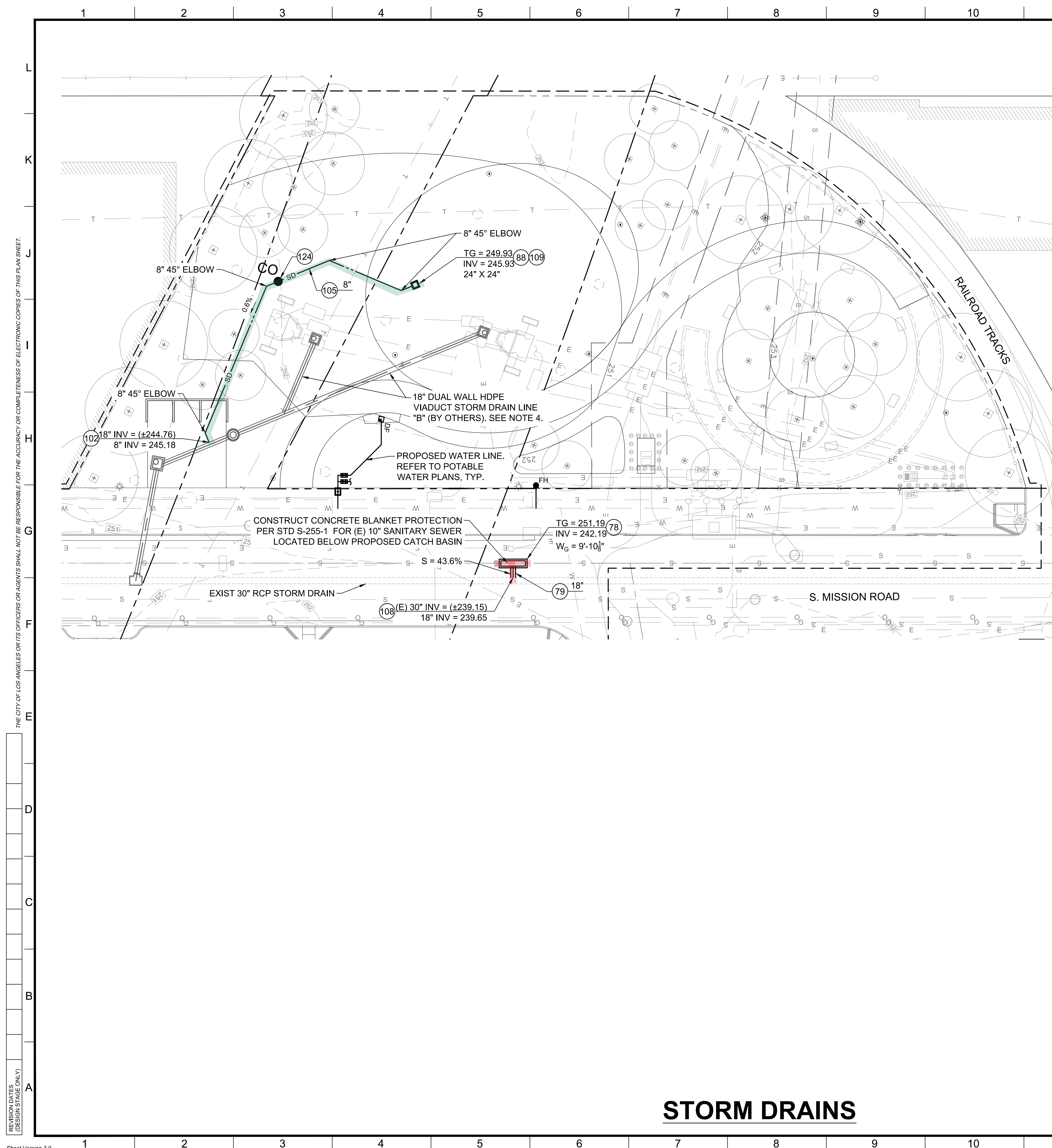
SHEET TITLE: STORM DRAIN PLAN
SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER
CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE
LOS ANGELES RIVER















WORK ORDER NO. E700235D
FILE NO. 1
DRAWING NO. C-404


SHEET 43 OF SHEETS

EXHIBIT B

95% DESIGN SUBMITTAL - 11/08/2021

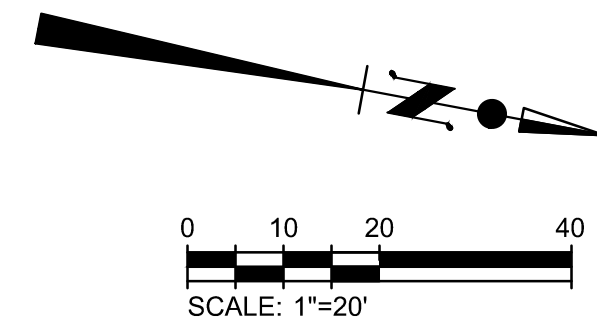


	PROPERTY / BOUNDARY LINE
	EASEMENT BOUNDARY LINE
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	EXISTING STORM DRAIN
	EXISTING GAS LINE
	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
	EXISTING OIL LINE
	EXISTING OVERHEAD ELECTRICAL
	EXISTING UNDERGROUND ELECTRICAL
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM DRAIN MAIN LINE ($\phi \geq 18"$)
	PROPOSED STORM DRAIN LATERAL ($\phi \leq 18"$)

LEGEND OF CONSTRUCTION NOTES		
<div>  CONSTRUCT </div>		
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
78	ALLEY GRATING BASIN (AGB)	SPPWC 304-4
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
102	FERNCO QWIKSEAL COUPLER OR APPROVED EQUAL	DTL 5, SHT C-606
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
108	JUNCTION STRUCTURE	SPPWC 331-3
109	CATCH BASIN FILTRATION INSERT	DTL 7, SHT C-605
124	STORM DRAIN CLEANOUT	DTL 6, SHT C-605

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS.
4. THE SIXTH STREET VIADUCT STORM DRAIN LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE CONSTRUCTED BY THE SIXTH STREET VIADUCT CONTRACTOR IN ADVANCE OF THE PARC IMPROVEMENTS. THE PARC CONTRACTOR SHALL REFER TO THE AS-BUILT DRAWINGS OF THE STORM DRAIN LINES WHEN AVAILABLE AND FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL CROSSINGS AND CONNECTIONS. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.

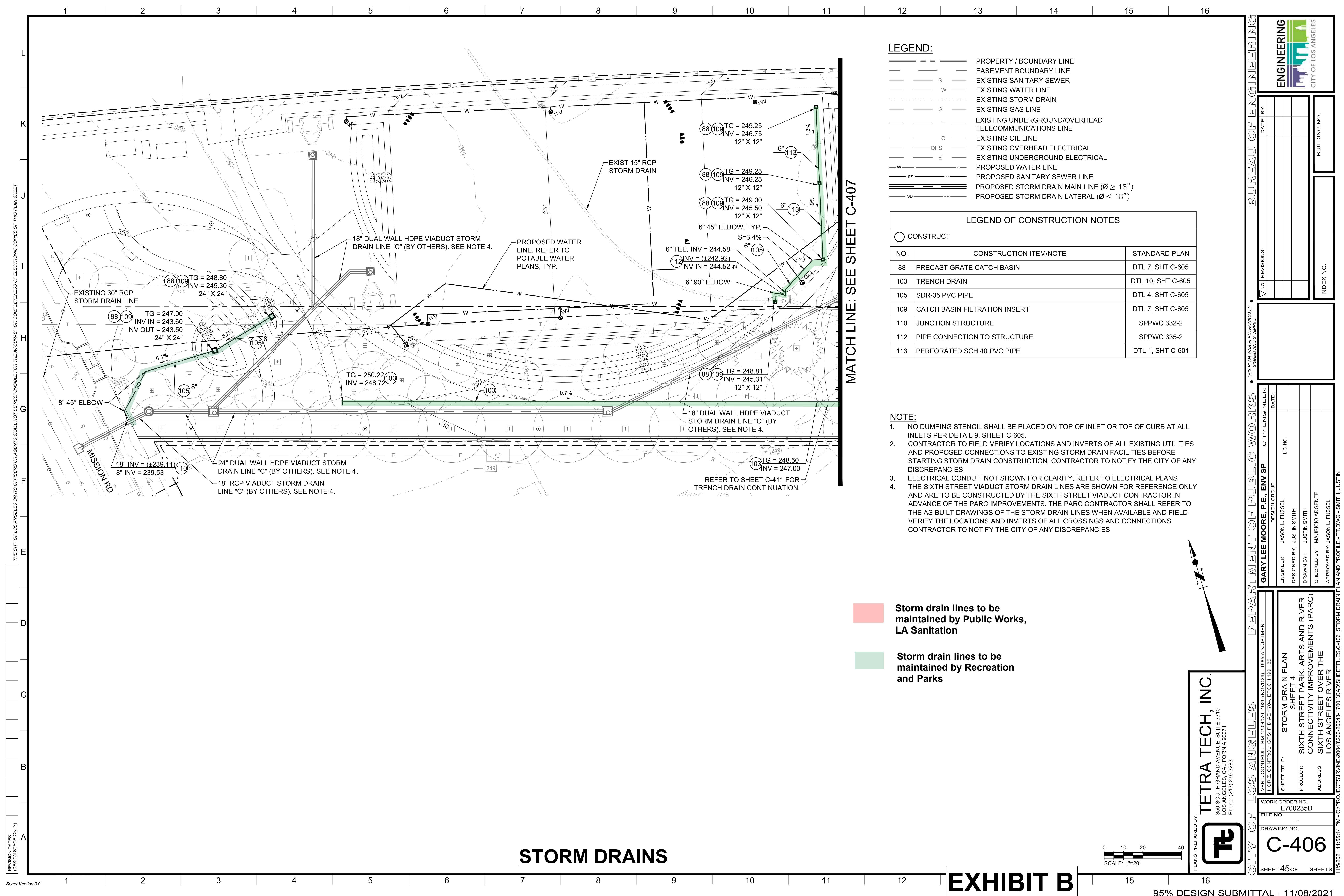
- Storm drain lines to be maintained by Public Works, LA Sanitation
- Storm drain lines to be maintained by Recreation and Parks

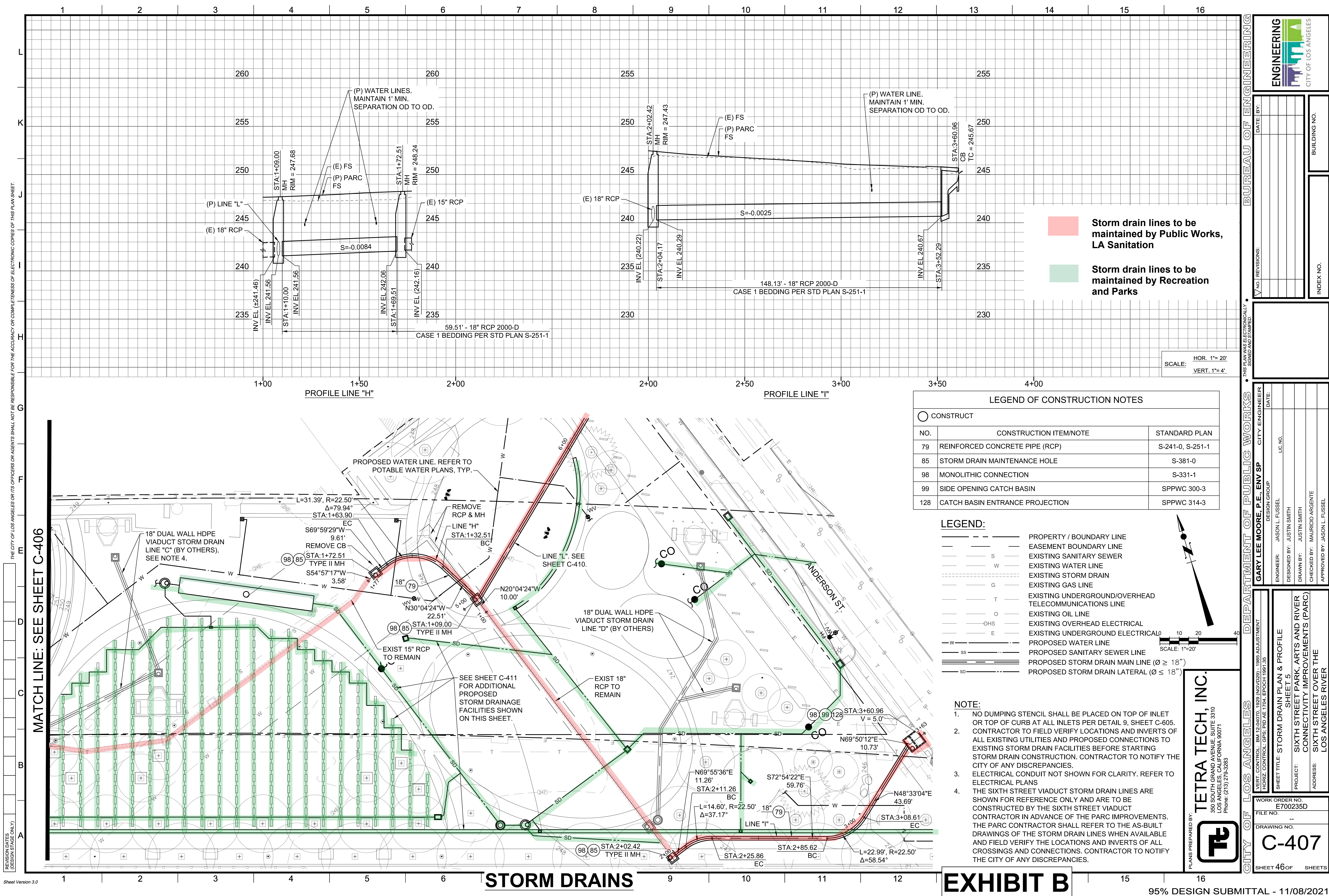


PLANS PREPARED BY:

 **TETRA TECH, INC.**
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES		DEPARTMENT OF PUBLIC WORKS		BUREAU OF ENGINEERING	
VERT. CONTROL: BM 1240070, 1929 NGVD(29) - 1985 ADJUSTMENT HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35		* THIS PLAN WAS ELECTRONICALLY SIGNED AND TIMESTAMPED.			
WORK ORDER NO. E700235D		DATE BY:			
FILE NO.		NO. REVISIONS:			
DRAWING NO.		BUILDING NO.			
C-405		INDEX NO.			
SHEET 44 OF SHEETS		CITY ENGINEER			
SHEET TITLE:		DESIGN GROUP		DATE:	
PROJECT:		ENGINEER:		LIC. NO.	
ADDRESS:		DESIGNED BY:		LIC. NO.	
SIXTH STREET OVER THE LOS ANGELES RIVER		CHECKED BY:		LIC. NO.	
		APPROVED BY:		LIC. NO.	
		JASON L. FUSSELL			
		JUSTIN SMITH			
		MAURICIO ARGENTE			
		JASON L. FUSSELL			





ENGINEERING
CITY OF LOS ANGELES

DATE:

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NO. REVISIONS:

--	--	--	--

INDEX NO.

--

BUILDING NO.

--

DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E., ENV SP

DESIGN GROUP

ENGINEER: JASON L. FUSSELL
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: MAURICIO ARGENTE
APPROVED BY: JASON L. FUSSELL

PLANS PREPARED BY: TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-5263

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PD AE 1704, EPOCH 1981.35

WORK ORDER NO. E700235D
FILE NO.

--

DRAWING NO.

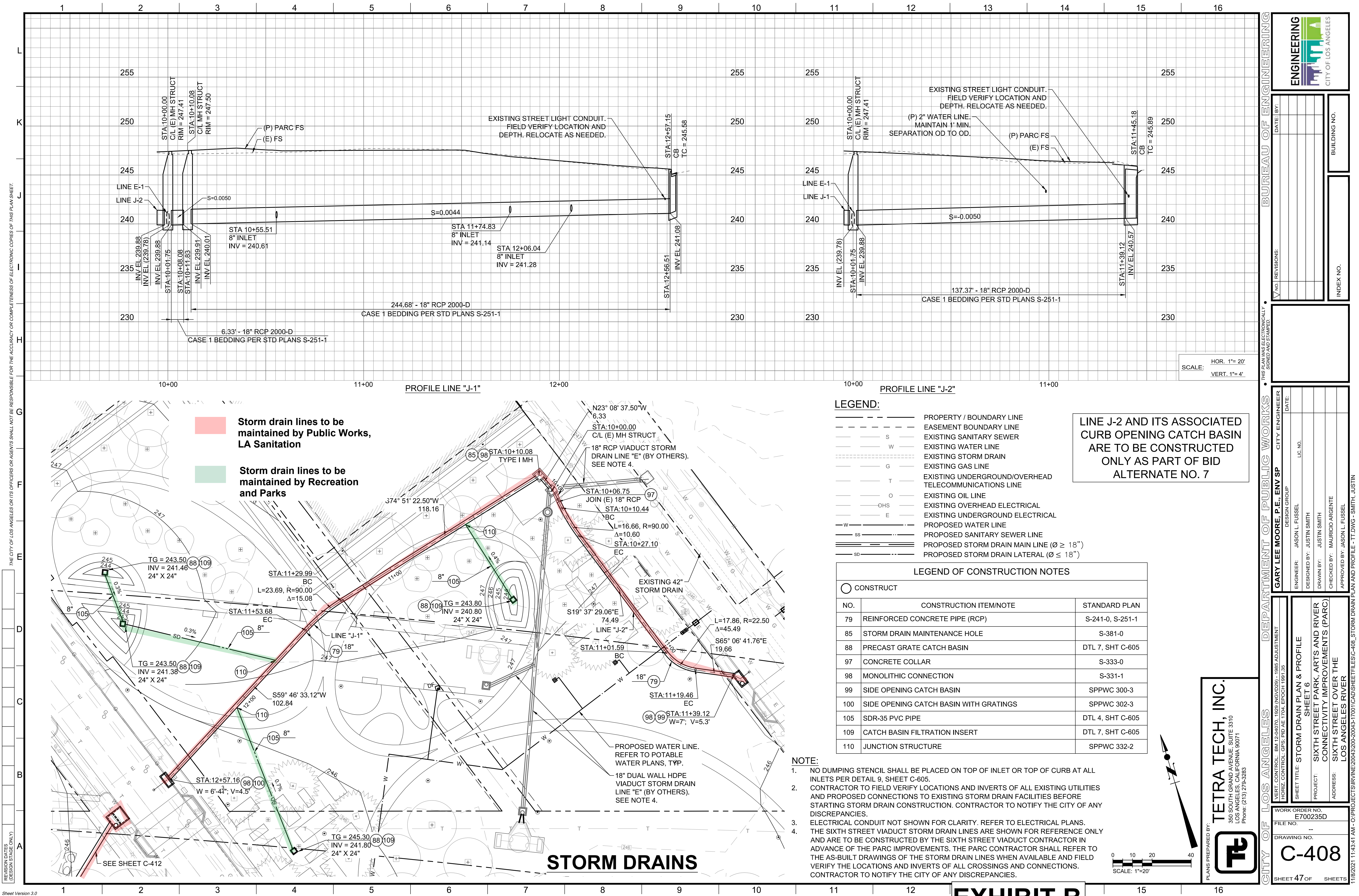
--

SHEET 46 OF SHEETS

CITY OF LOS ANGELES

STORM DRAIN PLAN & PROFILE
SHEET 5
SIXTH STREET PARK, ARTS AND RIVER
CONNECTIVITY IMPROVEMENTS (PARC)
SIXTH STREET OVER THE
LOS ANGELES RIVER

11/6/2021 12:25:38 AM - O:\PROJECTS\IN\20043\20043-17001\CAD\FILES\C-407_STORM DRAIN PLAN AND PROFILE - T.DWG - SMITH, JUSTIN



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

DESIGN DATES:
(DESIGN STAGE ONLY)

Sheet Version 3.0

ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

DATE: _____
NO. REVISIONS: _____

INDEX NO. _____
BUILDING NO. _____

DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E., ENV SP

ENGINEER: JASON L. FUSSELL
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: MAURICIO ARGENTE
APPROVED BY: JASON L. FUSSELL

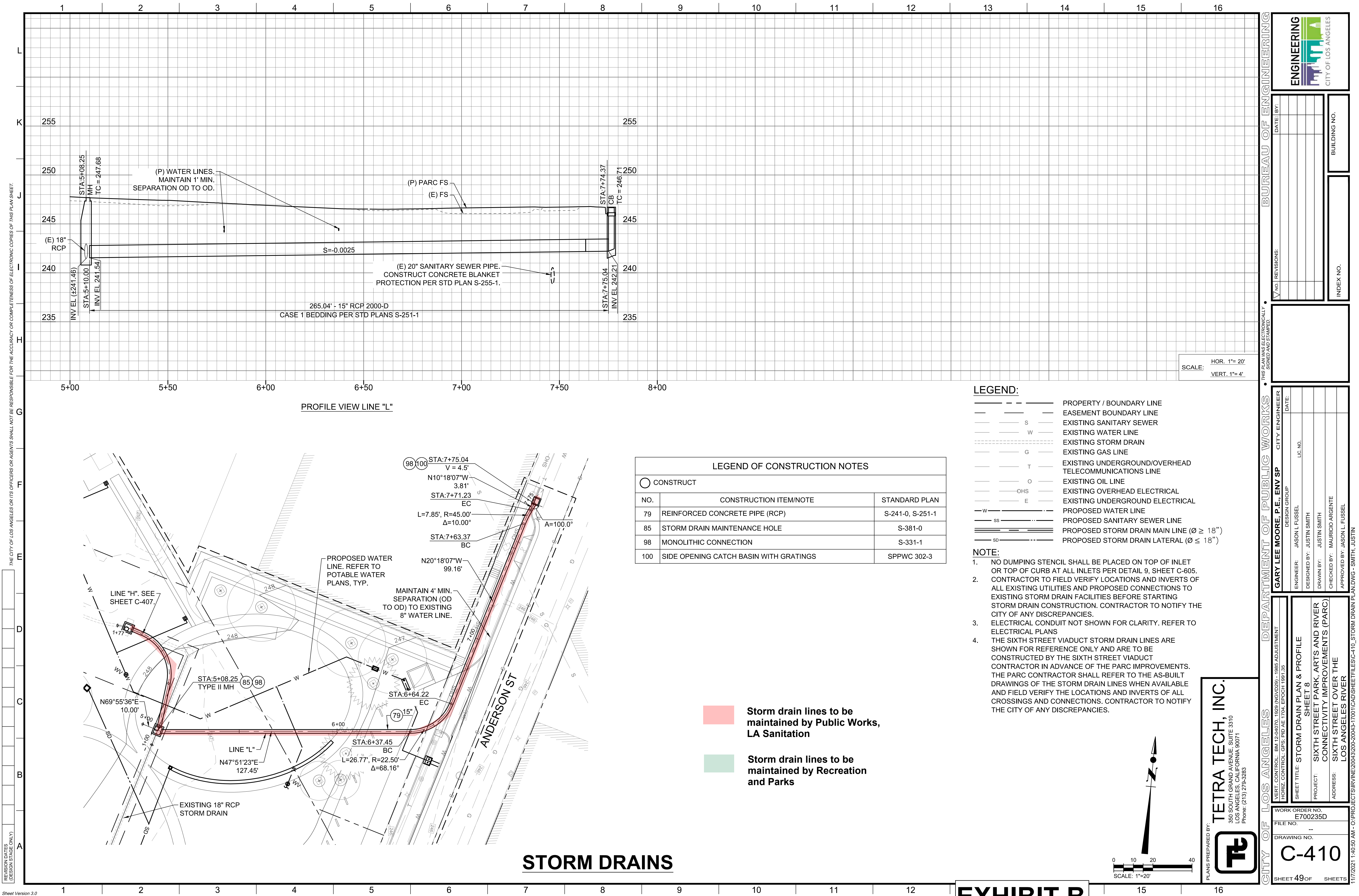
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-5263

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PD AE 1704, EPOCH 1981.35

WORK ORDER NO. E700235D
FILE NO. _____
DRAWING NO. _____
C-408

SHEET 47 OF SHEETS

11/8/2021 11:43:41 AM - O:\PROJECTS\Irvine\20043200-20043-17001\CAD\Sheets\FILES\C-408_STORM DRAIN PLAN AND PROFILE - T.T.DWG - SMITH, JUSTIN



_____ - - - _____	PROPERTY / BOUNDARY LINE
_____ _____	EASEMENT BOUNDARY LINE
_____ _____ S _____	EXISTING SANITARY SEWER
_____ _____ W _____	EXISTING WATER LINE
-----	EXISTING STORM DRAIN
_____ _____ G _____	EXISTING GAS LINE
_____ _____ T _____	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
_____ _____ O _____	EXISTING OIL LINE
_____ _____ OHS _____	EXISTING OVERHEAD ELECTRICAL
_____ _____ E _____	EXISTING UNDERGROUND ELECTRICAL
_____ - W _____	PROPOSED WATER LINE
_____ SS _____	PROPOSED SANITARY SEWER LINE
=====	PROPOSED STORM DRAIN MAIN LINE ($\varnothing \geq 18"$)
_____ SD _____	PROPOSED STORM DRAIN LATERAL ($\varnothing \leq 18"$)

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS.
4. THE SIXTH STREET VIADUCT STORM DRAIN LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE CONSTRUCTED BY THE SIXTH STREET VIADUCT CONTRACTOR IN ADVANCE OF THE PARC IMPROVEMENTS. THE PARC CONTRACTOR SHALL REFER TO THE AS-BUILT DRAWINGS OF THE STORM DRAIN LINES WHEN AVAILABLE AND FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL CROSSINGS AND CONNECTIONS. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.

LEGEND OF CONSTRUCTION NOTES		
<div> <div></div> CONSTRUCT </div>		
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
81	CURBSIDE GRATING BASIN (CGB)	SPPWC 303-3
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
101	SCH 40 PVC PIPE	DTL 4, SHT C-605
103	TRENCH DRAIN	DTL 10, SHT C-605
104	RADIUS TRENCH DRAIN	DTL 5, SHT C-605
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
106	DUAL WALL HDPE PIPE	DTL 4, SHT C-605
108	JUNCTION STRUCTURE	SPPWC 331-3
110	JUNCTION STRUCTURE	SPPWC 332-2
114	WET WELL AND PUMP	DTL 4, SHT C-606
115	STORMWATER STORAGE TANK	DTL 4, SHT C-606
116	HYDRODYNAMIC SEPARATOR	DTL 1, SHT C-606
117	DIVERSION MAINTENANCE HOLE	DTL 3, SHT C-606
118	EPIC SYSTEM	DTL 1, 2, 7, & 9, SHT C-607
119	EPIC SYSTEM INLET HEADER PIPE	DTL 3, SHT C-607
120	EPIC SYSTEM INLET STRUCTURE	DTL 4, SHT C-607
121	EPIC SYSTEM OUTLET HEADER PIPE	DTL 5, SHT C-607
122	EPIC SYSTEM OUTLET STRUCTURE	DTL 6, SHT C-607
123	PRECAST CONCRETE JUNCTION STRUCTURE W/ COVER	DTL 8, SHT C-605
124	STORM DRAIN CLEANOUT	DTL 6, SHT C-605
126	EPIC SYSTEM AT TREE LOCATIONS	DTL 8, SHT C-607



Storm drain lines to be maintained by Recreation and Parks

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283



<div style="display: flex; justify-content: space-between;"> CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING </div>																																																																																	
• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •																																																																																	
<div style="border: 1px solid black; padding: 5px;"> <p>WORK ORDER NO. E700235D</p> <p>FILE NO. I</p> <p>DRAWING NO. C-411</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT</p> <p>HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35</p> </div>																																																																																
<div style="display: flex; justify-content: space-around; font-weight: bold;"> GARY LEE MOORE, P.E., ENV SP CITY ENGINEER </div>																																																																																	
<div style="border: 1px solid black; padding: 5px;"> <p>DESIGN GROUP</p> <p>ENGINEER: JASON L. FUSSELL</p> <p>DESIGNED BY: JUSTIN SMITH</p> <p>DRAWN BY: JUSTIN SMITH</p> <p>CHECKED BY: MAURICIO ARGENTE</p> <p>APPROVED BY: JASON L. FUSSELL</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>DATE:</p> <p>LIC. NO.</p> </div>																																																																																
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>SHEET TITLE:</p> <p style="text-align: center; font-weight: bold;">STORM DRAIN PLAN SHEET 9</p> <p>PROJECT:</p> <p style="text-align: center;">SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)</p> <p>ADDRESS:</p> <p style="text-align: center;">SIXTH STREET OVER THE LOS ANGELES RIVER</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>NO. REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>DATE:</p> <p>INDEX NO.</p> <p>BUILDING NO.</p> </div> </div>																																																																																	
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>ENGINEERING</p> <p>CITY OF LOS ANGELES</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>INDEX NO.</p> <p>BUILDING NO.</p> </div> </div>																																																																																	



PLANS PREPARED BY:	HNTB	HNTB Corporation One Bunker Hill Bldg., 601 West 5th St., Ste 1000 Los Angeles, California 90071	
SIGNATURE		1/20/2017	DATE

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED: _____
DIRECTOR, BUREAU OF STREET LIGHTING

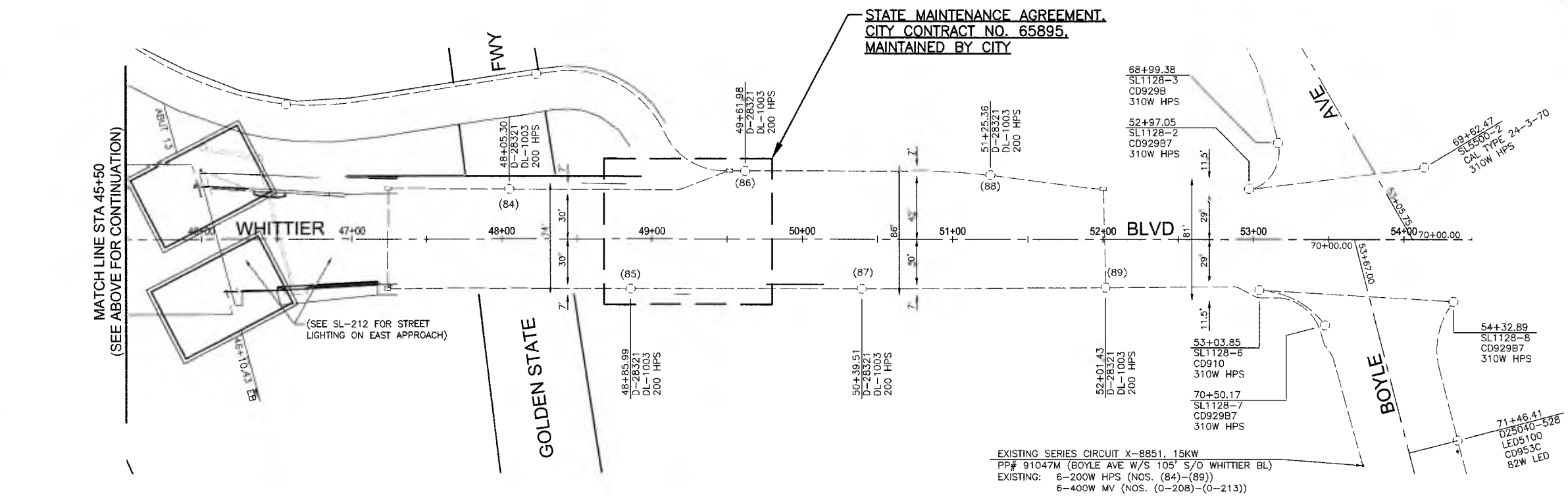
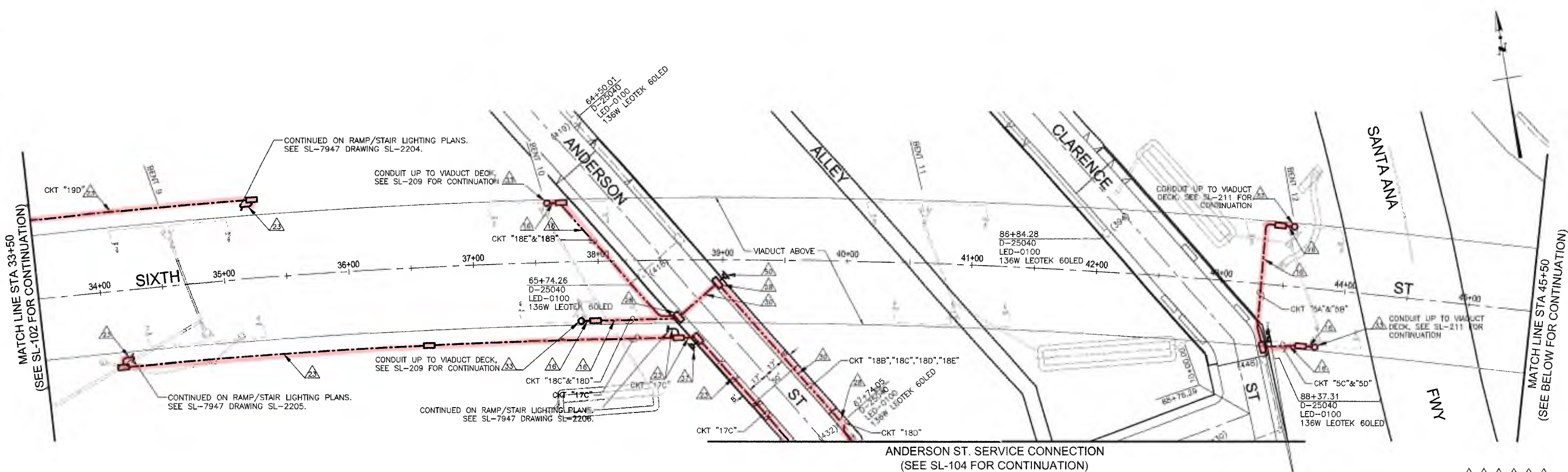
DRAWING NO.
SL-102

SCALE OF ORIGINAL PLAN: 1" = 40'

SHEET	OF	SHEETS	INDEX NUMBER
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EXHIBIT B

C:\cadd\la\pwwestcoast\greenlee\jms57861\SL-102.dwg 14, 2017 12:56pm THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



- NEW U.G. MULT. ST. LITG. SVC. NO. 5
- VL: 670 CLARENCE ST.
- INSTALL: CKT "5A": 58-40W LED PHILIPS eW GRAZE (NOS. (439A)-(496A))
58-20W LED PHILIPS eW GRAZE (NOS. (439B)-(496B))
CKT "5B": 43-40W LED PHILIPS eW GRAZE (NOS. (497A)-(539A))
43-20W LED PHILIPS eW GRAZE (NOS. (497B)-(539B))
2-108W LED SOLECITY (NOS. (1092)-(1093))
CKT "5C": 60-40W LED PHILIPS eW GRAZE (NOS. (974A)-(1033A))
60-20W LED PHILIPS eW GRAZE (NOS. (974B)-(1033B))
CKT "5D": 40-40W LED PHILIPS eW GRAZE (NOS. (1034A)-(1072A))
40-20W LED PHILIPS eW GRAZE (NOS. (1034B)-(1072B))
2-108W LED SOLECITY (NOS. (1094)-(1095))

GRADE LEVEL STREET LIGHTING PLAN 1
SCALE: 1" = 40'

DELTA No.	DESCRIPTION OF REVISION	DATE	BY
1	REVISED PER BSL REVIEW	4/7/2017	A. GOROVAYA

PLANS PREPARED BY:

HNTB HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

1/20/2017
DATE

REGISTERED PROFESSIONAL ENGINEER
No. 81994
Exp. 6/30/2018
ELECTRICAL
STATE OF CALIFORNIA

STREET LIGHTING PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7521

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED: *[Signature]* 3-22-17
DIRECTOR, BUREAU OF STREET LIGHTING

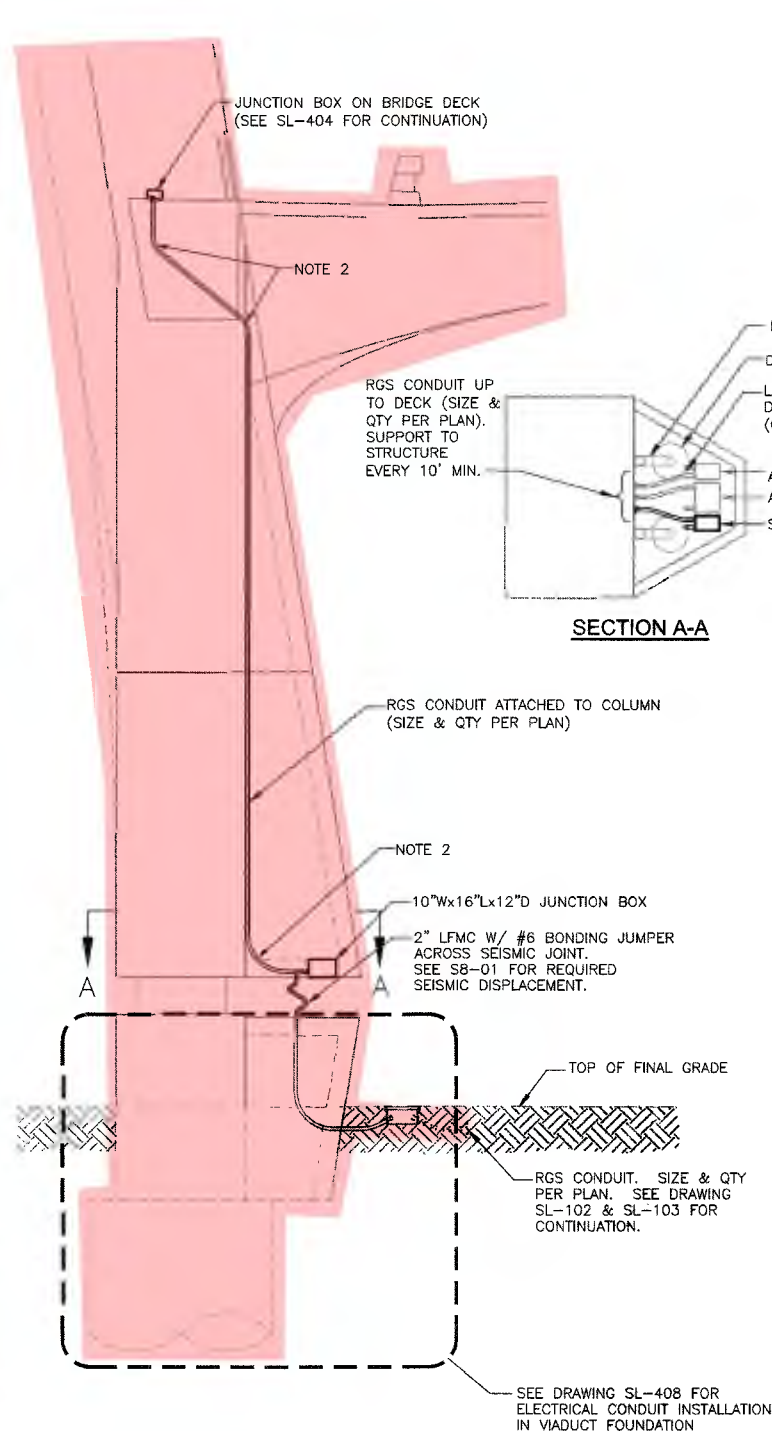
DRAWING NO.
SL-103

SCALE OF ORIGINAL PLAN: 1" = 40' SHEET OF SHEETS INDEX NUMBER

STREET LIGHTING

EXHIBIT B

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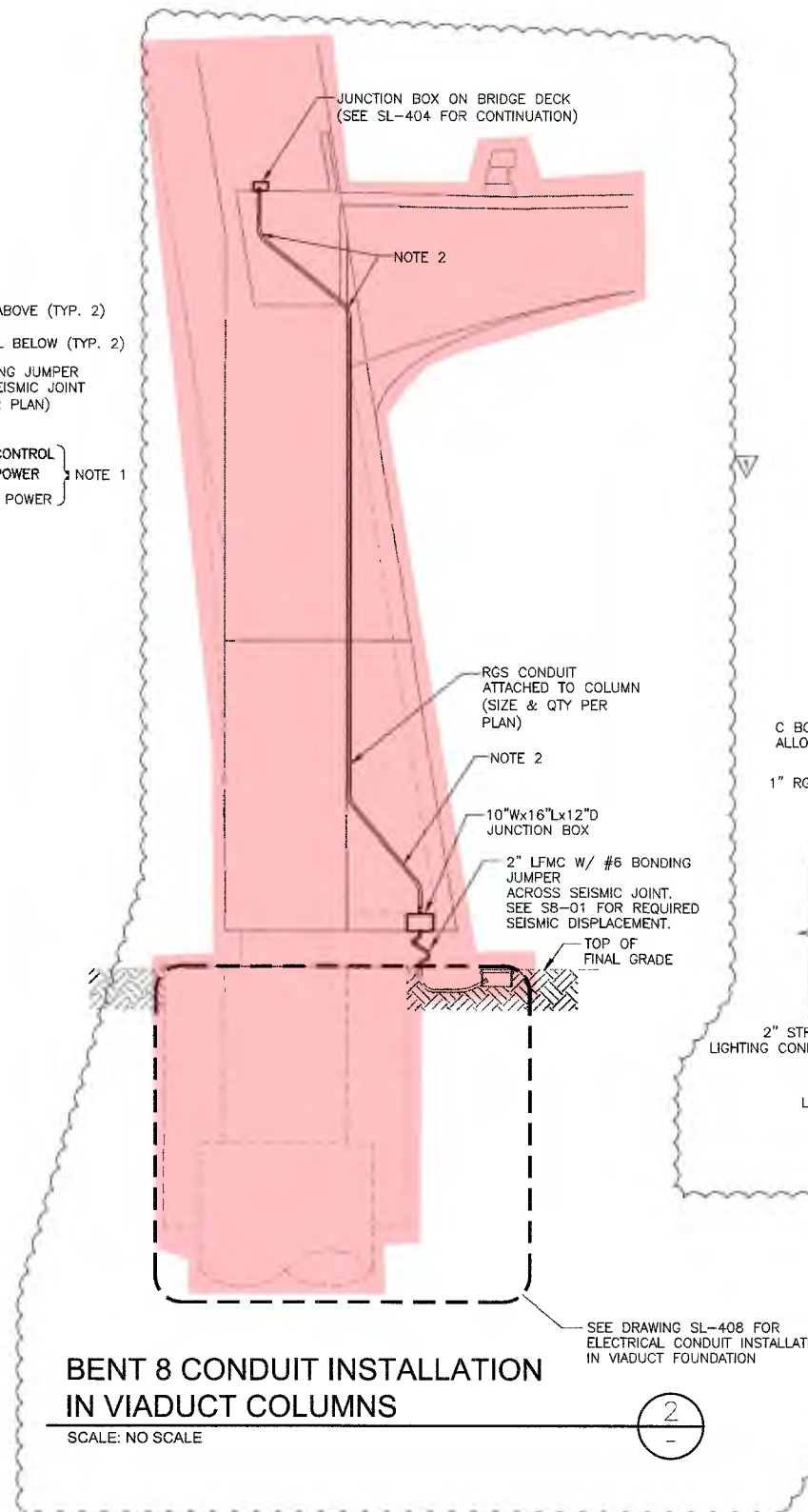


DETAIL NOTES:

1. PROVIDE J-BOXES AND CONDUIT AS REQUIRED FOR THE SYSTEMS BEING SERVED. NOT ALL J-BOXES AND CONDUIT ARE REQUIRED AT ALL COLUMN LOCATIONS. SEE STREET LIGHTING PLANS FOR CLARIFICATION. ARCH LIGHTING J-BOXES AND CONDUIT ARE SHOWN ON THE ARCH LIGHTING PLANS.
2. RGS CONDUIT BENDS SHALL BE PER GREENBOOK 307-12.2 (NOT LESS THAN 6X INTERNAL DIAMETER OF CONDUIT).

TYPICAL CONDUIT INSTALLATION
IN VIADUCT COLUMNS

SCALE: NO SCALE



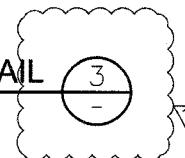
BENT 8 CONDUIT INSTALLATION
IN VIADUCT COLUMNS

SCALE: NO SCALE



TYPE 80 FUTURE ELECTROLIER FOUNDATION DETAIL

SCALE: NO SCALE



DELTA No.	DESCRIPTION OF REVISION	DATE	BY
1	REVISED PER BSL REVIEW	4/7/2017	A GOROVAYA

PLANS PREPARED BY:
HNTB HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071



STREET LIGHTING PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7521

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED: 3-22-17
DATE

DRAWING NO.
SL-405

SCALE OF ORIGINAL PLAN: NO SCALE

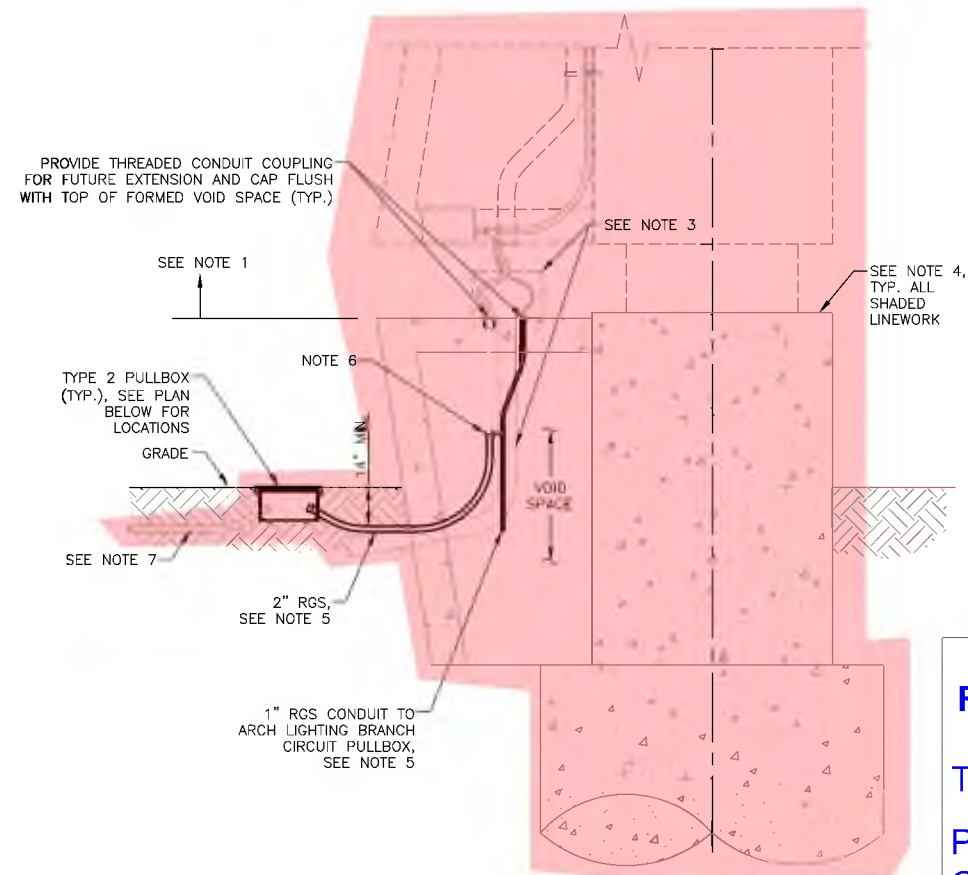
SHEET OF SHEETS INDEX NUMBER

STREET LIGHTING

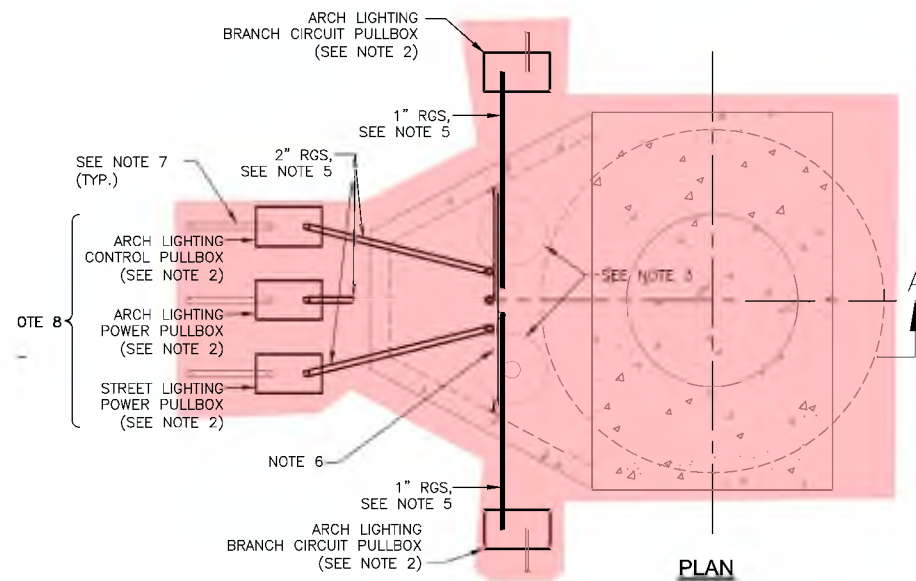
EXHIBIT B

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

C:\cadd\la\pm\westcoast\greenlee\lms57861\SL-408.dwg Feb 15, 2017 - 2:37pm



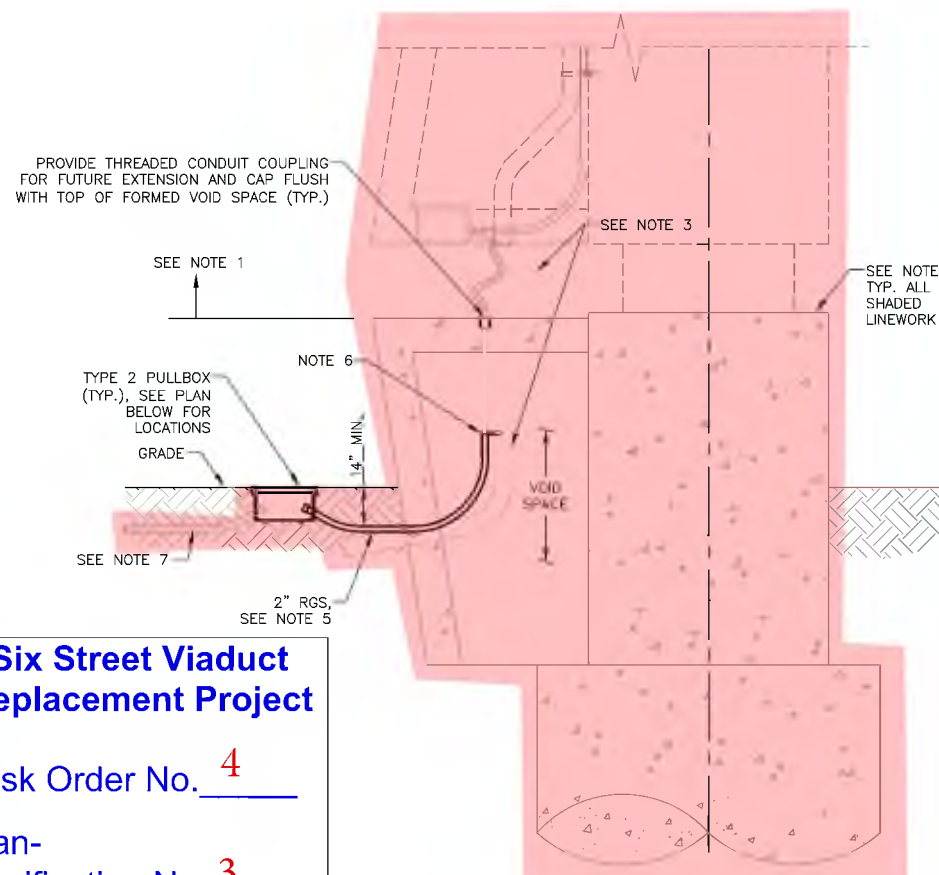
SECTION A-A



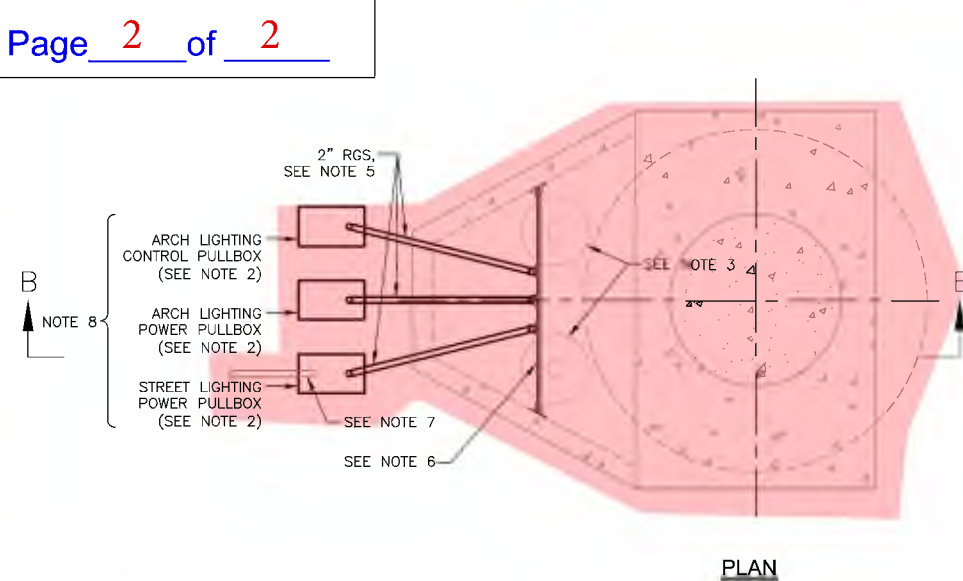
BENT 4, 7, 9 - 11 TYPICAL CONDUIT INSTALLATION IN VIADUCT FOUNDATION

SCALE: 3/8" = 1'-0"

1



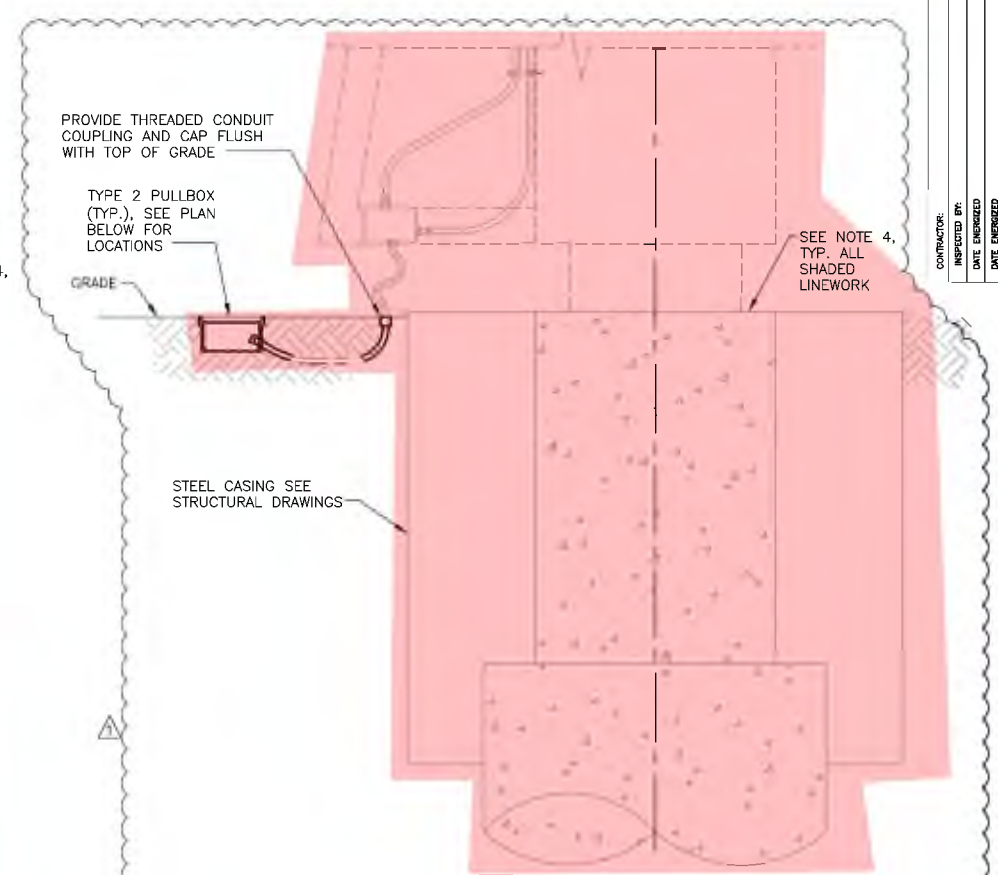
SECTION B-B



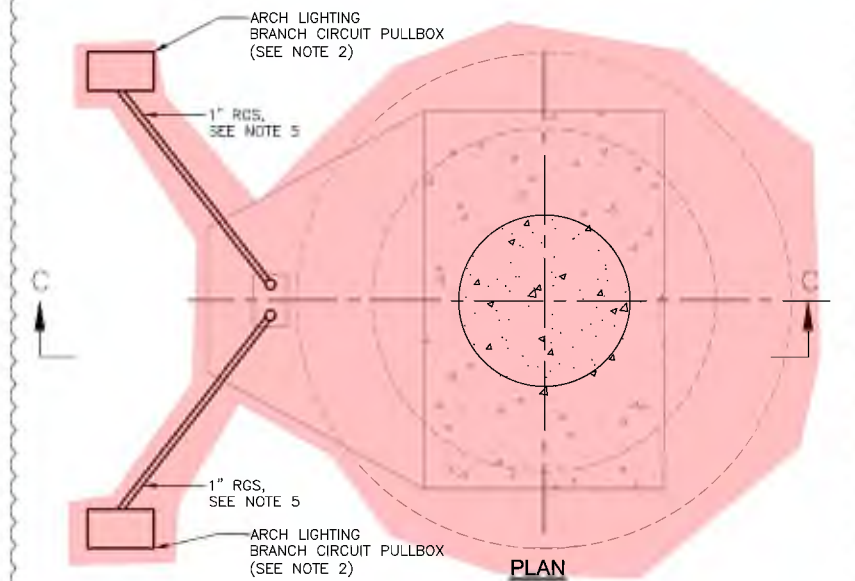
BENT 12 TYPICAL CONDUIT INSTALLATION IN VIADUCT FOUNDATION

SCALE: 3/8" = 1'-0"

2



SECTION C-C



BENT 8 TYPICAL CONDUIT INSTALLATION IN VIADUCT FOUNDATION

SCALE: 3/8" = 1'-0"

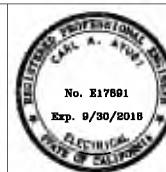
3

SHEET NOTES:

- SEE DRAWINGS SL-405 (STREET LIGHTING PLANS) AND SL-1402 (ARCH LIGHTING PLANS) FOR ELECTRICAL INSTALLATION DETAILS ABOVE FOUNDATION.
- ALL PULLBOXES SHALL BE LA BSL TYPE 2. PULLBOX LIDS SHALL BE LABELED ACCORDING TO THE SYSTEM THEY SERVE AND THE VOLTAGE WITHIN (I.E. "STREET LIGHTING 120/240V" OR "ARCH LIGHTING 480/277V"). EXACT PULLBOX LOCATIONS MAY BE ADJUSTED ACCORDING TO AVAILABLE SPACE NEAR THE VIADUCT FOUNDATION.
- COORDINATE CONDUIT INSTALLATION WITH DRAINAGE FUNNELS AND PIPES.
- EXACT DIMENSIONS AND CONFIGURATION OF FOUNDATION VARIES. COORDINATE ALL ELECTRICAL WORK WITH STRUCTURAL PLANS.
- CONDUIT WILL BE UTILIZED AS THE GROUND PATH. ALL CONDUIT SHALL BE RGS AND PROPERLY BONDED ACROSS ALL CONNECTING PARTS SUCH THAT IT IS ELECTRICALLY CONTINUOUS.
- PROVIDE BACK-TO-BACK 1-1/4" x 3/4" UNISTRUT WITH CONDUIT CLAMPS. HORIZONTAL LOCATION MAY BE ADJUSTED AS NEEDED TO SUPPORT CONDUIT. SUPPORTS SHALL BE INSTALLED EVERY 5' MAX. FOR VERTICAL CONDUIT INSTALLATIONS.
- FOR CONTINUATION OF CONDUIT SEE STREET LIGHTING PLANS AND ARCH LIGHTING PLANS. IN LOCATIONS WHERE SPARE PULLBOXES ARE INSTALLED THERE IS NO CONDUIT CONTINUATION.
- THE CONDUIT AND PULLBOX LAYOUT SHOWN IS TYPICAL FOR ALL FOUNDATIONS INDICATED. AT SOME LOCATIONS THE CONDUIT AND PULLBOXES ARE NOT UTILIZED AND SHALL BE INSTALLED AS SPARES. SEE STREET LIGHTING PLANS AND ARCH LIGHTING PLANS FOR PULLBOX AND CONDUIT UTILIZATION.

DELTA No.	DESCRIPTION OF REVISION	DATE	BY
1	RFI 49	2/15/2017	A. COROVAYA

PLANS PREPARED BY:
HNTB HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071



1/20/2017
DATE

SCALE OF ORIGINAL PLAN: AS SHOWN

STREET LIGHTING PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7521

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED: _____
DIRECTOR, BUREAU OF STREET LIGHTING

DRAWING NO.
SL-408

SHEET OF SHEETS INDEX NUMBER


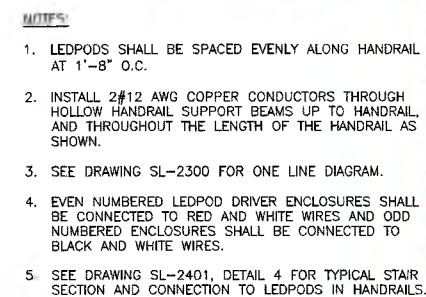
STREET LIGHTING

EXHIBIT B

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

BUREAU OF STREET LIGHTING



ACCEPTED: Ed Ebrub
DIRECTOR, BUREAU OF STREET LIGHTS

SCALE OF ORIGINAL PLAN: 1" = 5'

SHEET	OF	SHEETS	INDEX NUMBER
-------	----	--------	--------------

EXHIBIT B

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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EXIST U.G. MULT. ST. LTG. SVC. NO. 19
(TO BE CONNECTED FROM D.H. TO U.G.)
VL: 1600 E. SIXTH ST.
EXISTING: CKT "19A": 9-136W LEOTEK 60LED
CKT "19B": 10-136W LEOTEK 60LED
INSTALL: CKT "19C": 844-2W LEDPOD
CKT "19D": 150-2W LEDPOD
INSTALL ALL #6 WIRE THROUGHOUT

CONTINUED ON STREET LIGHTING
PLANS SL-7521, DRAWING SL-103

34+13.00
CKT "19D" 23

NOTE 4 (TYP.)
NOTE 2 24

EDGE OF VIADUCT

34+35.00

NOTE 2

LEDPOD HANDRAIL LIGHTS, NOTE 1

PLAN

NOTES:

1. LEDPODS SHALL BE SPACED EVENLY ALONG HANDRAIL AT 1'-8" O.C.
2. INSTALL 2#12 AWG COPPER CONDUCTORS THROUGH HOLLOW HANDRAIL SUPPORT BEAMS UP TO HANDRAIL, AND THROUGHOUT THE LENGTH OF THE HANDRAIL AS SHOWN.
3. SEE DRAWING SL-2300 FOR ONE LINE DIAGRAM.
4. EVEN NUMBERED LEDPOD DRIVER ENCLOSURES SHALL BE CONNECTED TO RED AND WHITE WIRES AND ODD NUMBERED ENCLOSURES SHALL BE CONNECTED TO BLACK AND WHITE WIRES.
5. SEE DRAWING SL-2401, DETAIL 4 FOR TYPICAL STAIR SECTION AND CONNECTION TO LEDPODS IN HANDRAILS.

COLUMN BENT 9

LEDPOD HANDRAIL LIGHTS, NOTE 1

NOTE 2

1" RGS, STUB OUT INTO HANDRAIL CONNECTOR PLATE

14"x8"x4"D STEEL NEMA 4X LOCKABLE J-BOX

NOTE 2 24

1-1/2" RGS 23 24

1" RGS, STUB OUT INTO HANDRAIL CONNECTOR PLATE.

14"x8"x4"D STEEL NEMA 4X
LOCKABLE J-BOX. NOTE 5

1-1/2" RGS 23

1-1/2" LFMC W/ #6 BONDING JUMPER ACROSS
SEISMIC JOINT. PROVIDE SUFFICIENT SLACK TO ALLOW
FOR UP TO 30" OF MOVEMENT IN ANY DIRECTION.

CONTINUED ON STREET LIGHTING
PLANS SL-7521, DRAWING SL-103

1-1/2" RGS 23

ELEVATION

BENT 9 NORTH ARCH STAIR LIGHTING

SCALE: 1" = 5'

1
SL-2100

T.O. 5 - Change Order Sketch No. 19 - page 6 of 12

5' 2.5' 0' 5' 10'
SCALE 1" = 5'-0"

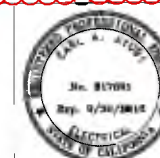
PLANS PREPARED BY:

HNTB

HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

SIGNATURE

9/13/2016
DATE



STAIR AND RAMP LIGHTING PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7947

CITY OF LOS ANGELES

ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED:

Ed Ebrahimi
BUREAU OF STREET LIGHTING

10-21-16

DRAWING NO.
SL-2204

SCALE OF ORIGINAL PLAN: 1" = 5'

SHEET OF SHEETS INDEX NUMBER

STREET LIGHTING

EXHIBIT B

BUREAU OF STREET LIGHTING

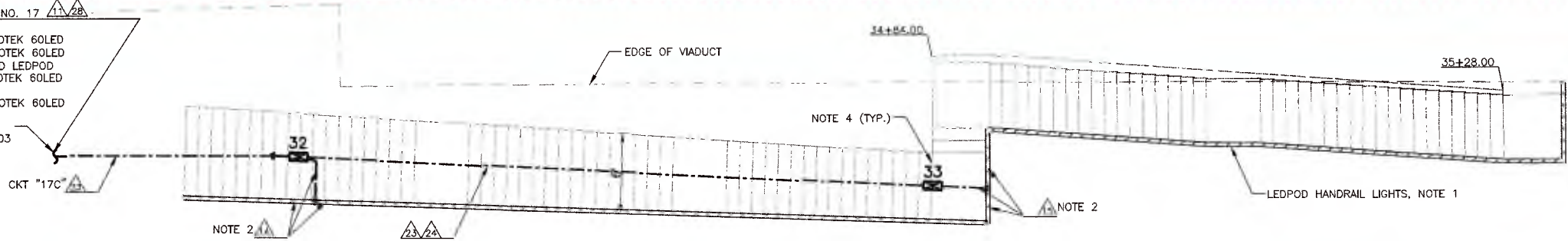
DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

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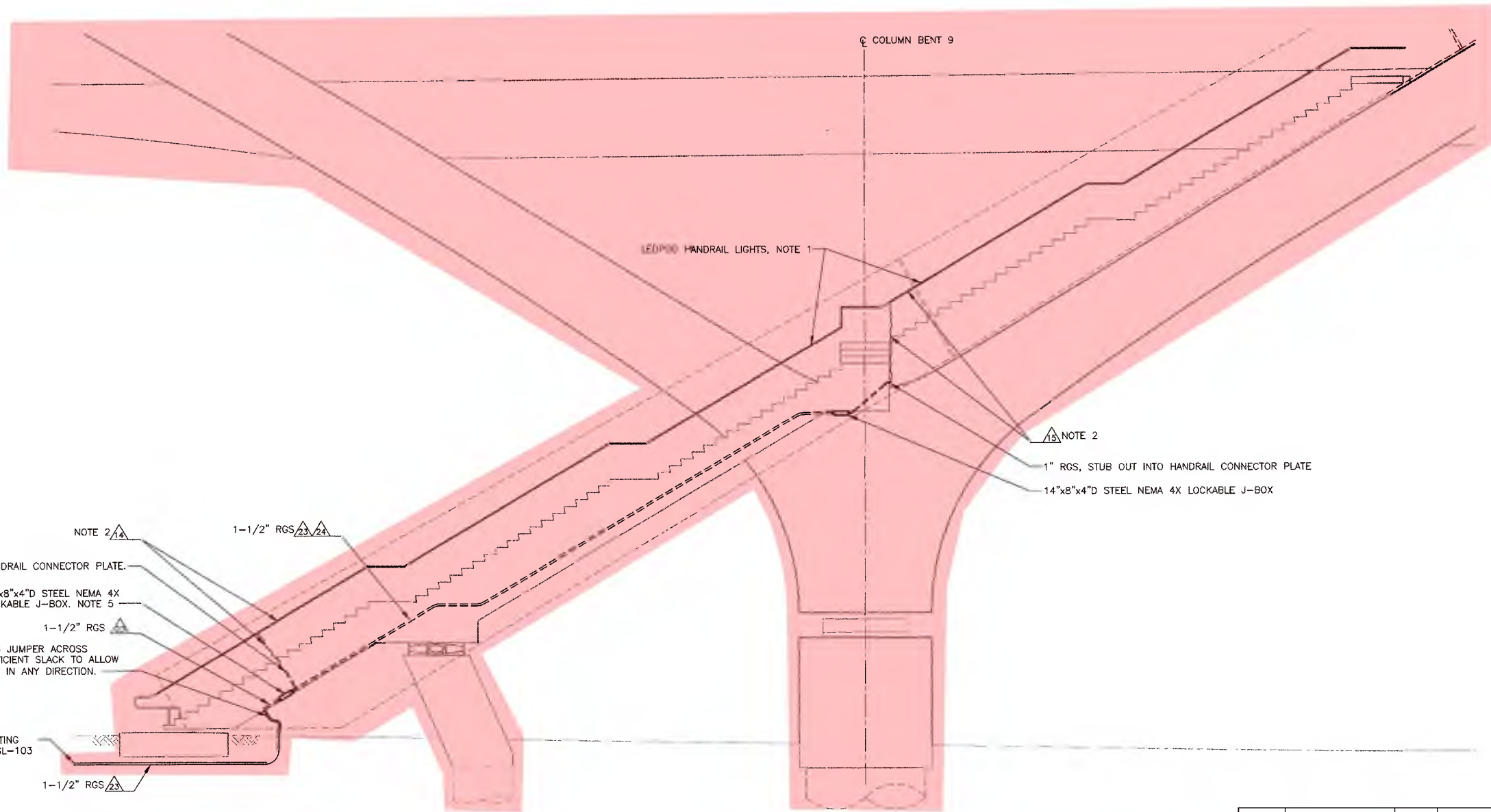
EXISTING MULTIPLE ST. LTG. SVC. NO. 17
PP #273578M
EXISTING: CKT "17A": 9-136W LEOTEK 60LED
CKT "17B": 3-136W LEOTEK 60LED
INSTALL: CKT "17C": 165-2W LED LEDPOD
9-136W LEOTEK 60LED
TRANSFER TO CKT NO. 17C:
CKT "17B": 2-136W LEOTEK 60LED
CONTINUED ON STREET LIGHTING
PLANS SL-7521, DRAWING SL-103



PLAN

NOTES:

1. LEDPODS SHALL BE SPACED EVENLY ALONG HANDRAIL AT 1'-8" O.C.
2. INSTALL 2#12 AWG COPPER CONDUCTORS THROUGH HOLLOW HANDRAIL SUPPORT BEAMS UP TO HANDRAIL AND THROUGHOUT THE LENGTH OF THE HANDRAIL AS SHOWN.
3. SEE DRAWING SL-2300 FOR ONE LINE DIAGRAM.
4. EVEN NUMBERED LEDPOD DRIVER ENCLOSURES SHALL BE CONNECTED TO RED AND WHITE WIRES AND ODD NUMBERED ENCLOSURES SHALL BE CONNECTED TO BLACK AND WHITE WIRES.
5. SEE DRAWING SL-2401, DETAIL 4 FOR TYPICAL STAIR SECTION AND CONNECTION TO LEDPODS IN HANDRAILS.



ELEVATION

BENT 9 SOUTH ARCH STAIR LIGHTING
SCALE: 1" = 5'

1
SL-2100

T.O. 5 - Change Order Sketch No. 19 - page 7 of 12

5' 2.5' 0' 5' 10'
SCALE 1" = 5'-0"

PLANS PREPARED BY:
HNTB HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

SIGNATURE: *[Signature]* DATE: 9/13/2016



STAIR AND RAMP LIGHTING PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7947

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED: *[Signature]* 10-21-16
DIRECTOR, BUREAU OF STREET LIGHTING

DRAWING NO.
SL-2205

SCALE OF ORIGINAL PLAN: 1" = 5'

SHEET OF SHEETS INDEX NUMBER

STREET LIGHTING

EXHIBIT B

BUREAU OF STREET LIGHTING

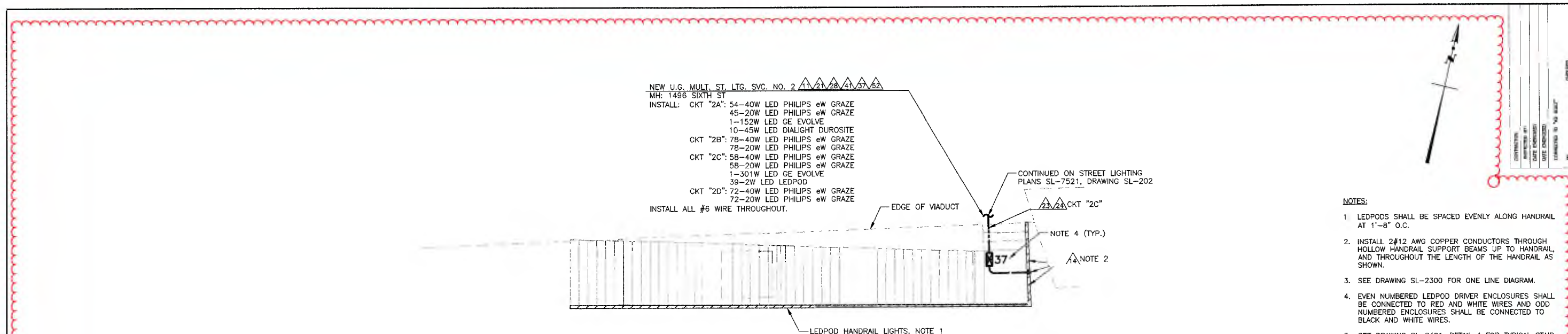
DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

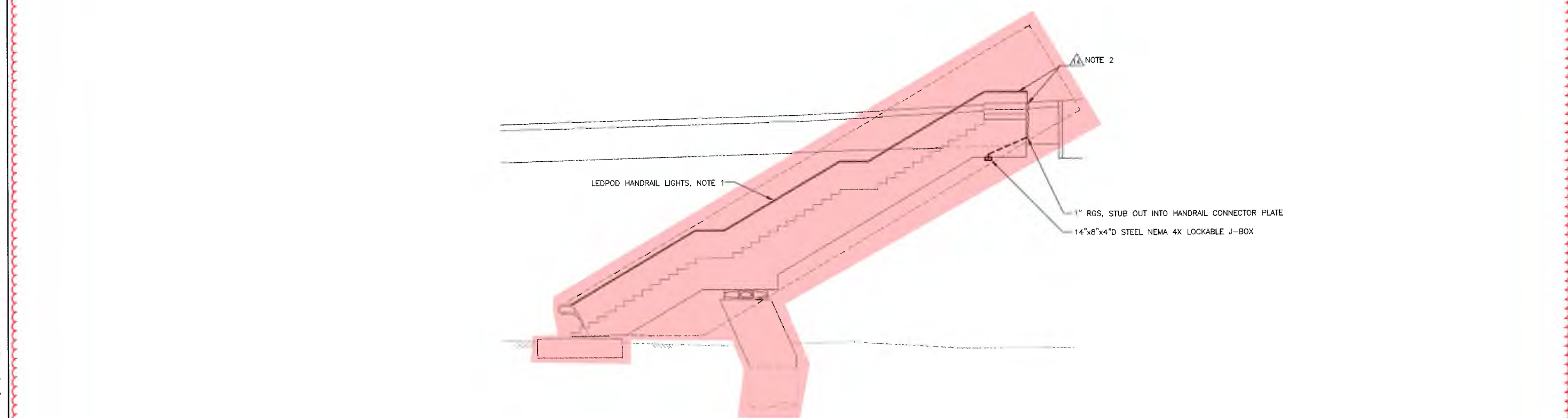


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WEST STAIR PLAN



ELEVATION

WEST STAIR LIGHTING
SCALE: 1" = 5'

1
SL-2100

5' 2.5' 0' 5' 10'
SCALE 1" = 5'-0"

PLANS PREPARED BY:
HNTB HNTB Corporation
One Bunker Hill Bldg.,
601 West 5th St., Ste 1000
Los Angeles, California 90071

SIGNATURE: *[Signature]* DATE: 9/13/2016



DELTA No.	DESCRIPTION OF REVISION	DATE	BY
1	REVISED PER BSL REVIEW	4/7/2017	A. GOROVAYA

STAIR AND RAMP LIGHTING PLANS
SIXTH STREET VIADUCT REPLACEMENT
W.O. E700224L (TASK 013) SL-7947

CITY OF LOS ANGELES
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

ACCEPTED: *[Signature]* DATE: 10-21-16
DIRECTOR BUREAU OF STREET LIGHTING

DRAWING NO.
SL-2207

SCALE OF ORIGINAL PLAN: 1" = 5' SHEET OF SHEETS INDEX NUMBER

T.O. 5 - Change Order Sketch No. 19 - page 9 of 12

STREET LIGHTING

EXHIBIT B

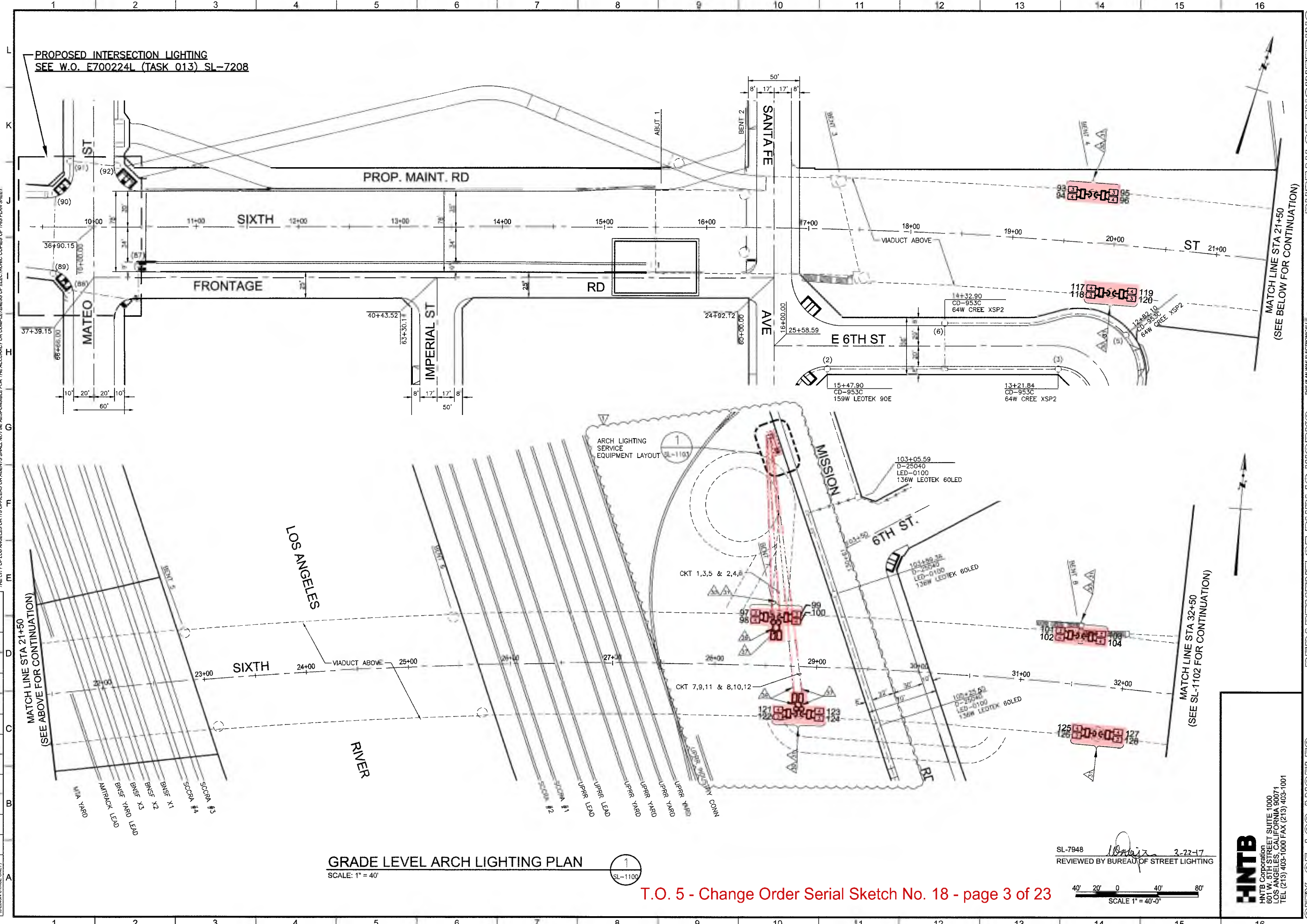
BUREAU OF STREET LIGHTING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0



GRADE LEVEL ARCH LIGHTING PLAN
SCALE: 1" = 40'

1
SL-1100

T.O. 5 - Change Order Serial Sketch No. 18 - page 3 of 23

SL-7948
REVIEWED BY BUREAU OF STREET LIGHTING

40' 20' 0 40' 80'
SCALE 1" = 40'-0"

HNTB
HNTB Corporation
601 W. 5TH STREET, SUITE 1000
LOS ANGELES, CA 90071
TEL (213) 403-1000 FAX (213) 403-1001

CITY OF LOS ANGELES		DEPARTMENT OF PUBLIC WORKS		BUREAU OF ENGINEERING	
VERTICAL CONTROL: BM 12+00.00, 1028 (NGVD 29) - 1885 ADJUSTMENT HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35		ENGINEER: GARY LEE MOORE, P.E. CITY ENGINEER DESIGN GROUP: ALEKSANDRA GOROVAYA LIC NO. 45318 DESIGNED BY: ALEKSANDRA GOROVAYA DRAWN BY: RON GREENLEE CHECKED BY: CARL AYIBI APPROVED BY:		DATE: 4/7/17 REVISIONS: 1 DESIGN CHANGES, CHANGE TO BOE APPROVAL INDEX NO. 530-2329 STRUCTURE NO. 530-2329	
SHEET TITLE: ARCH LIGHTING PLANS PROJECT: SIXTH STREET VIADUCT REPLACEMENT ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA		WORK ORDER NO. E700224L DRAWING NO. SL-1101		SHEET OF SHEETS	

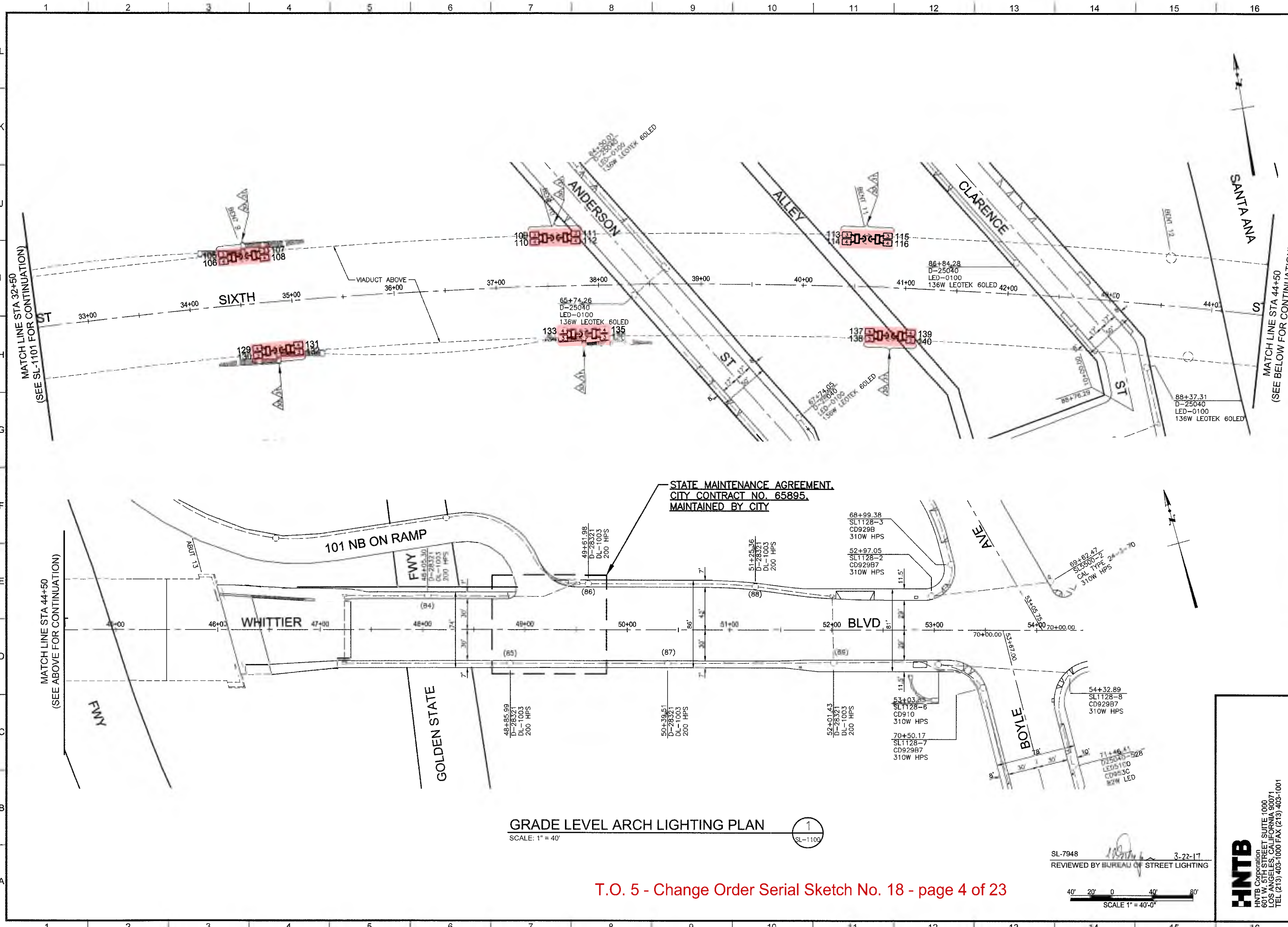
STREET LIGHTING

EXHIBIT B

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Sheet Version 3.0



GRADE LEVEL ARCH LIGHTING PLAN

SCALE: 1" = 40'

1
SL-1100

T.O. 5 - Change Order Serial Sketch No. 18 - page 4 of 23

SL-7948

3-22-17

REVIEWED BY BUREAU OF STREET LIGHTING

40' 20' 0 40' 80'
SCALE 1" = 40'-0"

HNTB
HNTB Corporation
601 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

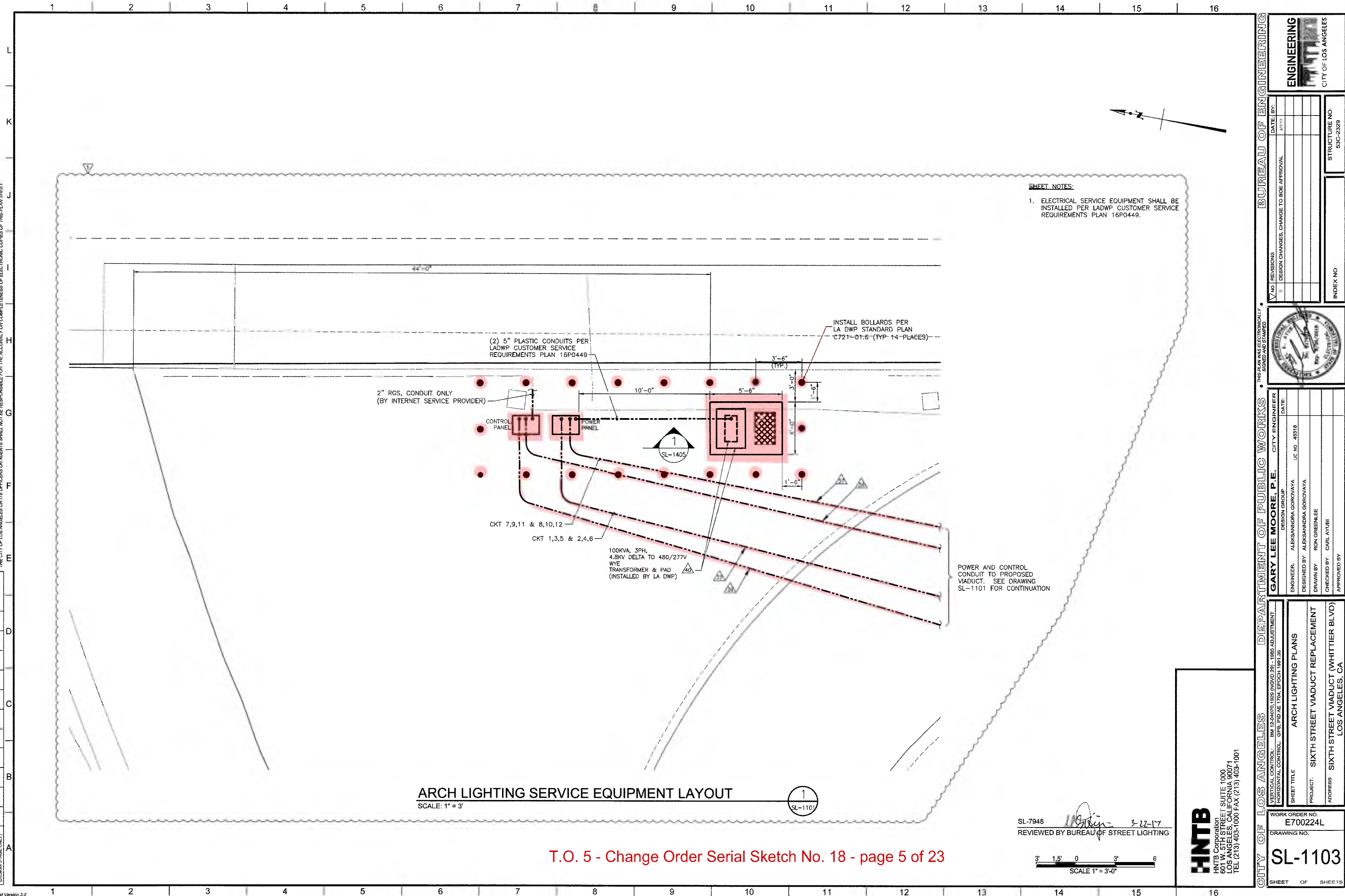
CITY OF LOS ANGELES		DEPARTMENT OF PUBLIC WORKS		BUREAU OF ENGINEERING	
VERTICAL CONTROL: BM 1240470, 1929 (NOV 20) - 1985 ADJUSTMENT		HORIZONTAL CONTROL: GPS: PID AE 1704, EPOCH 1981.35		DATE: 3/22/17	
SHEET TITLE: ARCH LIGHTING PLANS		DESIGN GROUP: ALEXANDRA GOROVAYA		DESIGNER: ALEXANDRA GOROVAYA	
PROJECT: SIXTH STREET VIADUCT REPLACEMENT		DRAWN BY: RON GREENLEE		CHECKED BY: CAR ANJUBI	
ADDRESS: SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA		APPROVED BY:		STRUCTURE NO: 53C-2320	
WORK ORDER NO. E700224L		DRAWING NO. SL-1102		INDEX NO.	
SHEET OF SHEETS					

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REVISIONS (DATE) (BY) (DESCRIPTION)

Sheet Version 3.0



T.O. 5 - Change Order Serial Sketch No. 18 - page 5 of 23

STREET LIGHTING

EXHIBIT B

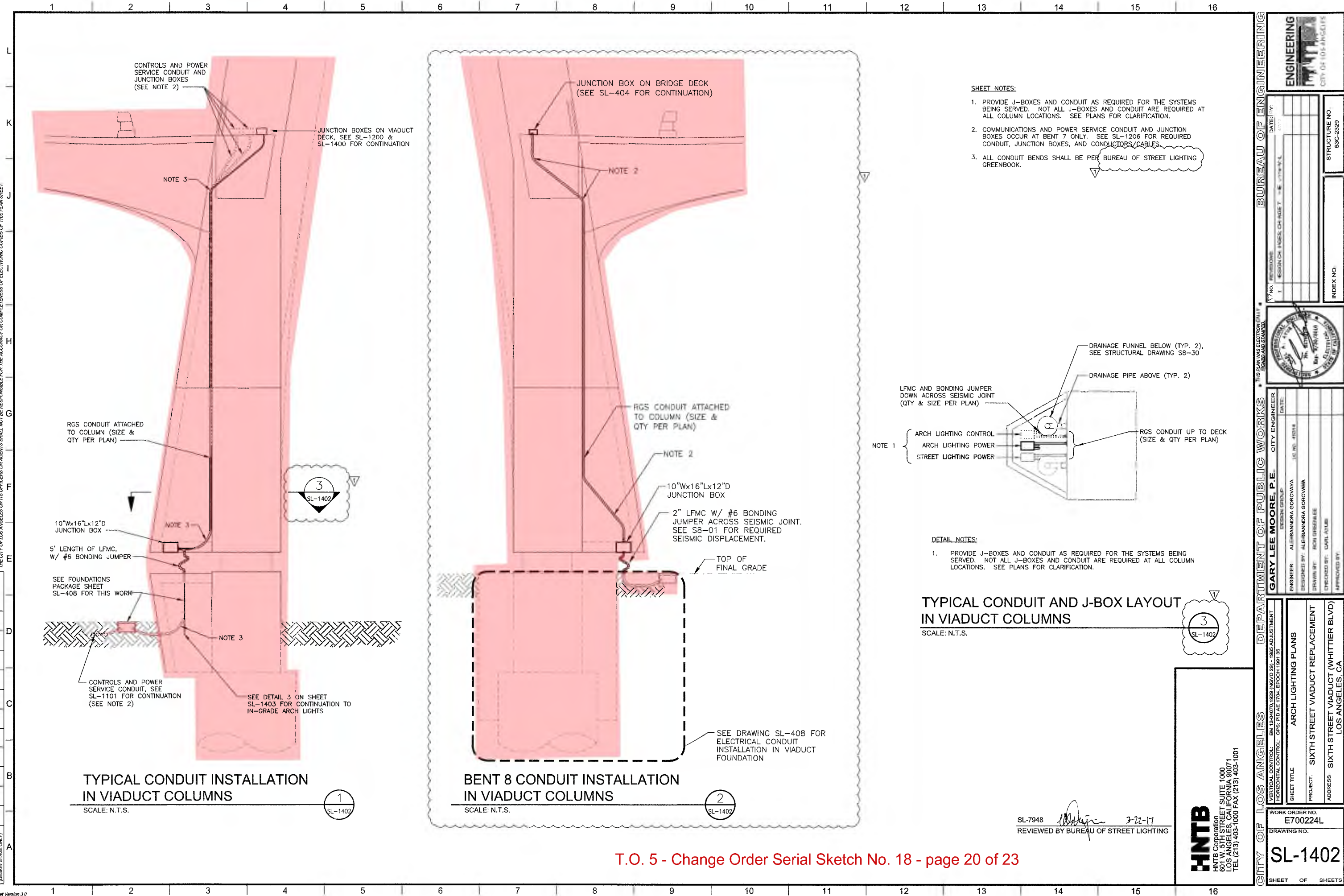
BUREAU OF ENGINEERING	
DATE BY: 4/17/17	INDEX NO. 53C-2329
DESIGN CHANGES, CHANGE TO BOE APPROVAL	
NO REVISIONS	
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED	
DEPARTMENT OF PUBLIC WORKS	
GARY LEE MOORE, P.E. CITY ENGINEER	
DESIGN GROUP: ALEKSANDRA GOROVAYA	DATE: 4/17/17
ENGINEER: ALEKSANDRA GOROVAYA	LIC NO. 48318
DESIGNED BY: ALEKSANDRA GOROVAYA	
DRAWN BY: RON GREENLEE	
CHECKED BY: CARL AYUBI	
APPROVED BY:	
SHEET TITLE	
ARCH LIGHTING PLANS	
PROJECT:	
SIXTH STREET VIADUCT REPLACEMENT	
ADDRESS	
SIXTH STREET VIADUCT (WHITTIER BLVD) LOS ANGELES, CA	
WORK ORDER NO.	
E700224L	
DRAWING NO.	
SL-1103	
SHEET OF SHEETS	

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DESIGN STAGE (DESIGN STAGE ONLY)

Sheet Version 3.0

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T.O. 5 - Change Order Serial Sketch No. 18 - page 20 of 23

STREET LIGHTING

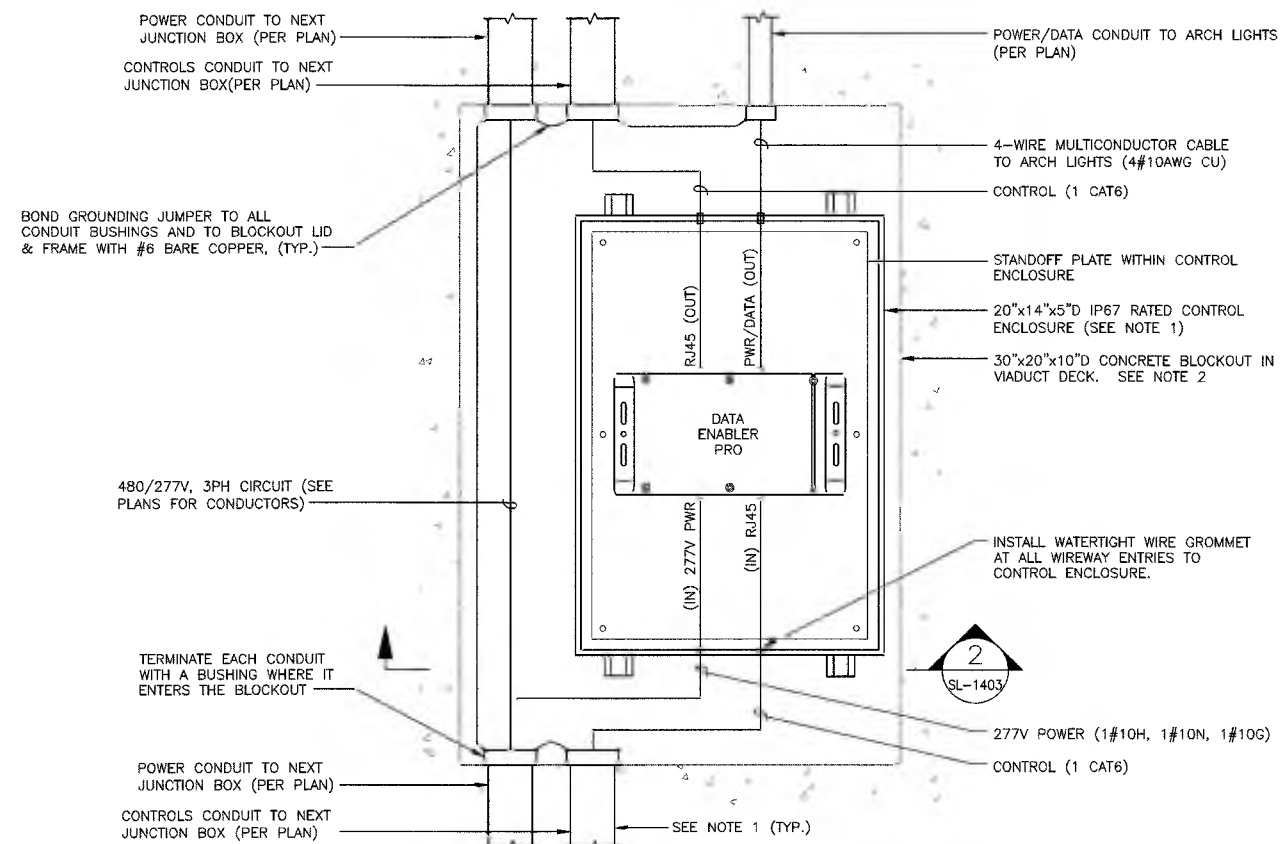
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REVISION DATES
(DESIGN STAGE ONLY)

Sheet Version 3.0

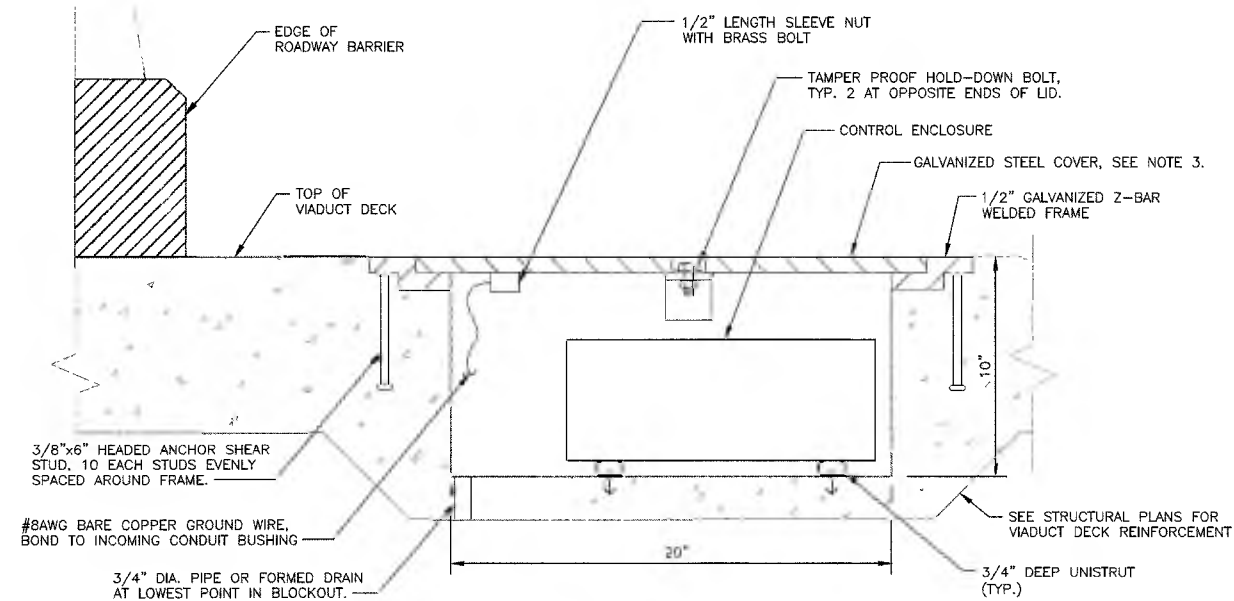
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PLAN - TYPICAL CONTROL ENCLOSURE BLOCKOUT

SCALE: 3"=1'-0"

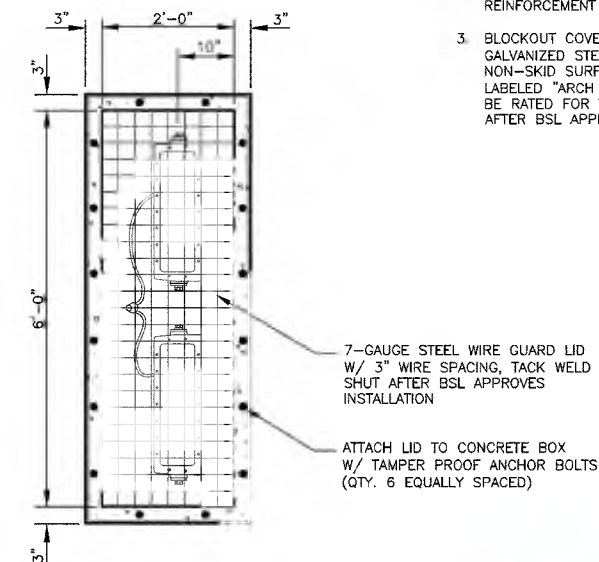
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SL-1403



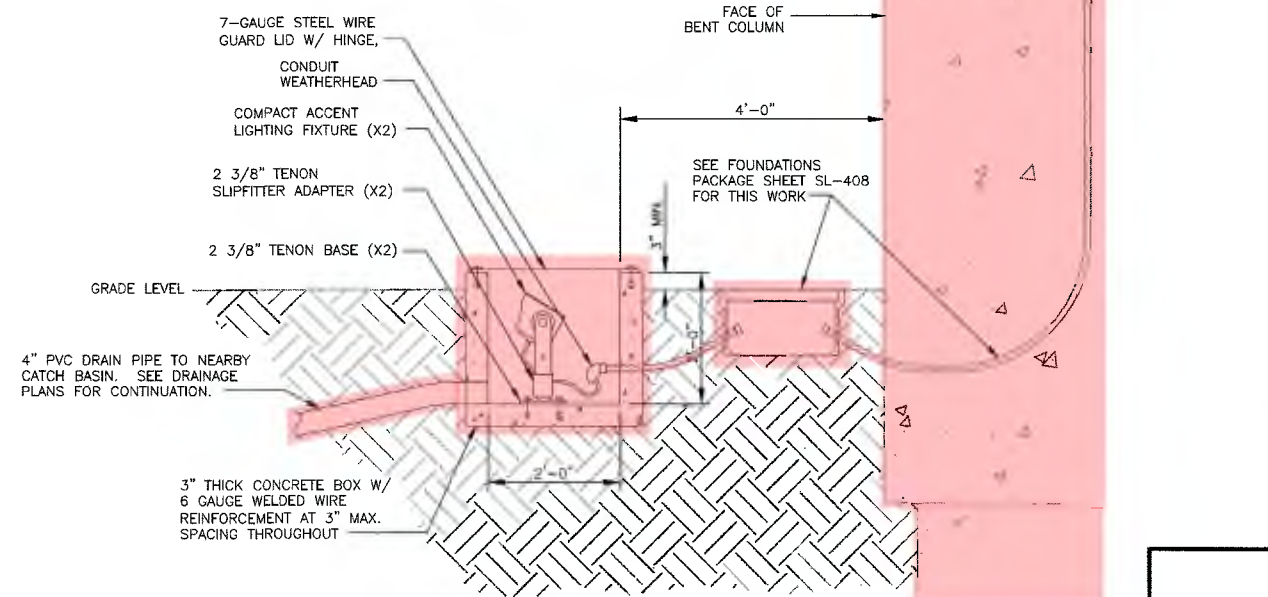
SECTION - TYPICAL CONTROL ENCLOSURE BLOCKOUT

SCALE: 3"=1'-0"

2
SL-1403



PLAN VIEW OF CONCRETE BOX



TYPICAL IN-GRADE ARCH LIGHT INSTALLATION

SCALE: 3/4"=1'-0"

3
SL-1403

SL-7948
REVIEWED BY BUREAU OF STREET LIGHTING
3-27-17

SHEET NOTES:

1. RELOCATE CONDUIT ENTRIES AND CONTROL ENCLOSURE POSITIONING WITHIN BLOCKOUT AS NEEDED TO ACCOMMODATE PLAN LAYOUT.
2. SEE STRUCTURAL PLAN S4-07 FOR BLOCKOUT REINFORCEMENT DETAILS.
3. BLOCKOUT COVER SHALL BE REINFORCED 1/2" MIN GALVANIZED STEEL W/ NEOPRENE SEAL AND NON-SKID SURFACE. COVER SHALL BE CLEARLY LABELED "ARCH LIGHTING 480/277V". COVER SHALL BE RATED FOR TRAFFIC-BEARING. TACK WELD SHUT AFTER BSL APPROVES INSTALLATION.

7-GAUGE STEEL WIRE GUARD LID W/ 3" WIRE SPACING, TACK WELD SHUT AFTER BSL APPROVES INSTALLATION
ATTACH LID TO CONCRETE BOX W/ TAMPER PROOF ANCHOR BOLTS (QTY. 6 EQUALLY SPACED)

SEE DETAIL 1 ON SHEET SL-1402 FOR CONTINUATION

HNTB
HNTB Corporation
801 W. 5TH STREET SUITE 1000
LOS ANGELES, CALIFORNIA 90071
TEL (213) 403-1000 FAX (213) 403-1001

BUREAU OF ENGINEERING	
DATE BY	DATE
1. 2017-03-27	3-27-17
STRUCTURE NO.	53C-2329
INDEX NO.	
DEPARTMENT OF PUBLIC WORKS	
CITY ENGINEER	DATE
GARY LEE MOORE, P.E.	3-27-17
DESIGN GROUP	LE NO. 4518
ENGINEER	ALE SAN DIA GOROVAYA
DESIGNED BY	ALE SAN DIA GOROVAYA
DRAWN BY	RON GREE LEE
CHECKED BY	CARL AYUBI
APPROVED BY	
CITY OF LOS ANGELES	
VERTICAL CONTROL: BM 12-04070.1020 (NSVD 29) - 1985 ADJUSTMENT	ARCH LIGHTING PLANS
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35	PROJECT
SHEET TITLE	SIXTH STREET VIADUCT REPLACEMENT
ADDRESS	SIXTH STREET VIADUCT (WHITTIER BLVD)
WORK ORDER NO.	E700224L
DRAWING NO.	SL-1403
SHEET	OF SHEETS