

AS-BUILT RECEIVED FROM:

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Know what's below.

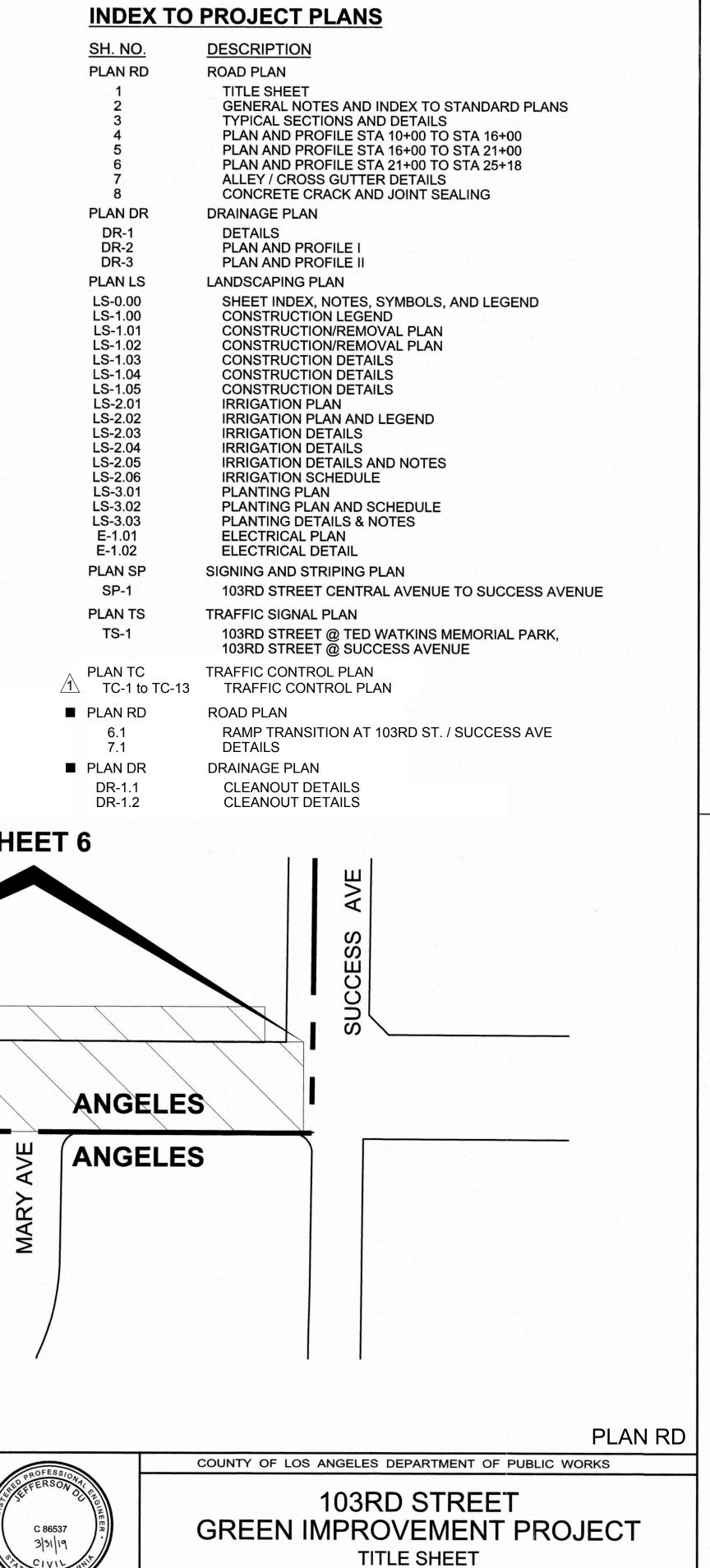
Call before you dig.

CON / PDD / RMD / OTHER

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

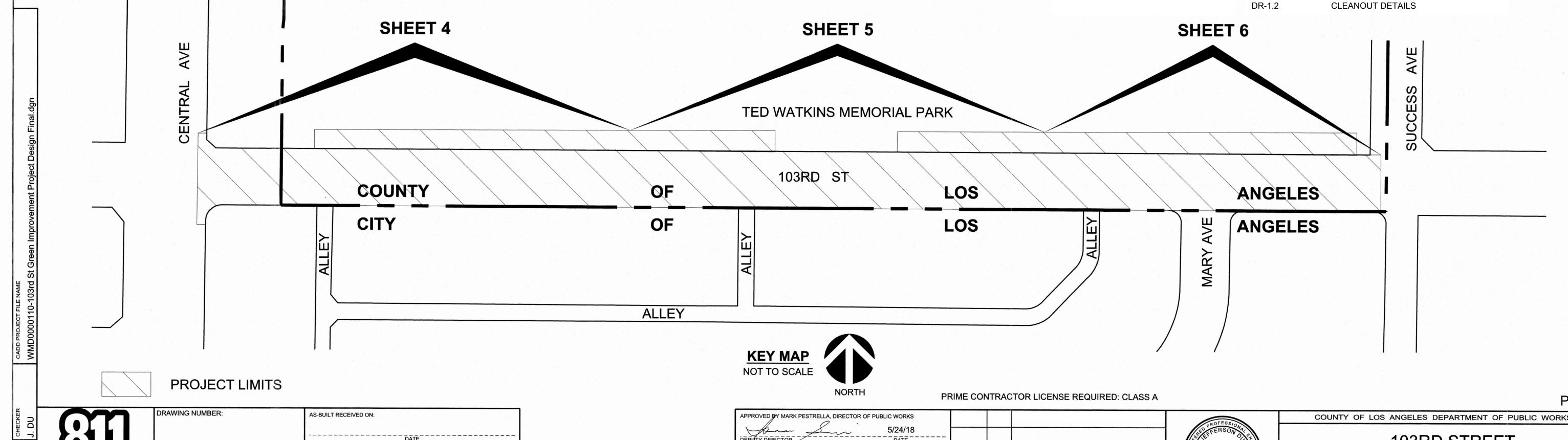
103RD STREET GREEN IMPROVEMENT PROJECT

CENTRAL AVENUE TO SUCCESS AVENUE PROJECT ID NO. WMD0000110



PROJECT ID NO. WMD0000110

SHEET



8 22/1 DATE 7/14/21 ■ AS BUILT REVISIONS

REVISED TRAFFIC CONTROL PLAN INDEX

CONSTRUCTION LEGEND PLAN RD AND PLAN DR 1) Portland Cement Concrete Curb and Gutter (on 6" CMB), Per STD Plan 120-2 (1A) Portland Cement Concrete Curb and Gutter (on 6" CMB), Per City of LA STD Plan S-410-2 2) Portland Cement Concrete Curb (on 6" CMB), Per STD Plan 120-2 5 Portland Cement Concrete Sidewalk, 4" Thick (on 6" CMB) Dortland Cement Concrete Sidewalk, 4" Thick (on 6" CMB), Per City of LA STD Plan S-444-0 7 Portland Cement Concrete Pavement on Existing Base Material, 520-A-2500 9 Asphalt Concrete Pavement (on 12" CMB) (14) Driveway, Type B unless otherwise shown (on 6" CMB), Per STD Plan 110-2 (15) Alley Intersection (on 6" CMB), Per STD Plan 130-2 (16) Cross Gutter, Per STD Plan 122-2 Curb Ramp (on 6" CMB), Per Caltrans STD Plan A88A Case B, unless otherwise shown Curb Ramp (on 6" CMB), Per City of LA STD Plan S-442-5 Case B, unless otherwise shown (21) Concrete Bus Pad, Per STD Plan 131-2 (22) Asphalt Rubber Hot Mix (ARHM-GG-C) (38) Pervious Concrete Gutter, 2' Wide, Per Detail A on Sheet 3 Pervious Concrete Longitudinal Gutter, 4' Wide, Per Detail B on Sheet 3 Concrete Unit Paver (Permeable), Per Detail B on Sheet 3 (41) HDPE Liner, 40 MIL 42) 1/4" to 3/8" Crushed Rock (43) 3/4" Crushed Rock Nonwoven Geotextile, Type 180N Local Depression, Case B (on 6" CMB), Per STD Plan 313-3 (46) Connection to Existing Catch Basin Per STD Plan 335-2 (47) 2 1/2" to 3" Crushed Rock (48) 8" Perforated SCH 80 PVC Pipe 49) 8" SCH 80 PVC Pipe 50) Detectable Warning Surface, Per Caltrans STD Plan A88A (51) 8" PVC Cleanout Per STD Plan 204-2 Per Cleanout Detail on Plan DR Sheet 1.1 and 1.2 ■ (52) Remove and Re-install Bike Rack (53) AC Pavement (Patchback) **CONSTRUCTION SYMBOLS** Indicates work per construction legend Curve data shown in table on plan Above Line: Indicates Standard Plan designation, thickness of surface material in inches, Standard Plan variables; curb ramp case, type, section and detail; or tree planting case Above Line: Indicates Standard Plan designation Below Line: L = length

Above Line: a = length parallel to curb

Utility to be adjusted by Owner

Left of Line: STA of the driveway apron

Right of Line: Driveway width "W" of apron, driveway depth "Y" of apron;

type of driveway apron (RES or COM)

Section A-A

RU Utility to be relocated by Owner

14

STA W, Y TYPE

b = length perdicular to curb

GENERAL NOTES

- Standard plans referenced are per the Standard Plans for Public Works Construction (SPPWC) unless otherwise noted.
- Elevations shown are in feet based on LA City 2000 adjustment, NAVD 1988 datum.
- Replace and vertically adjust traffic signal and street lighting pull boxes affected by curb ramp and sidewalk construction. Payment will be made at the contract unit price for No. 6 pull box incl PCC cover.
- All pipe in open trench shall be bedded according to LACDPW Standard Plan 3080-2, Case III, except bell and spigot pipe which shall be Case II bedding, unless otherwise shown. "W" values shall be as specified on Standard Plan 3080-2 for Case III bedding, notes (a) and (b), If the "W" value at the top of the pipe is exceeded, the bedding shall be modified, and/or pipe of additional strength shall be provided. The proposed modification shall be approved by the Agency.
- Within the project limits, the Contractor shall install a blue raised retroreflective pavement marker (RPM) on the finished surface at each fire hydrant location per California 2012 MUTCD Part 3 - Figure 3B-102 (CA), as described in the Special Provisions.

NOTICE TO CONTRACTORS

- 1. Contractor shall arrange and pay for the removal, storage, relocation, replacement, and/or re-installation of all transit shelters, public amenity kiosks (PAK's), newsstand vending kiosks (VK's), and/or automated public toilets (APT's) and their related appurtenances that may be affected by construction activities associated with these Plans whether shown and indicated on the Plans or not. There will be no cost to the Contractor for advertising based bus benches (ad bus benches) that are removed. stored, and reinstalled at the same location. Transit shelters, PAK's, VK's, APT's, and ad bus benches are the property of the City of Los Angeles and may only be removed, relocated, stored, replaced and/or reinstalled by the City's authorized vendors, Outfront/JC Decaux, LLC, (OutfrontDecaux) and Martin Outdoor Media, LLC (MOM).
 - A. Contractor shall contact Jovany Morales or Glenn Flutie of MOM at (310) 559-1600 a minimum of four (4) weeks prior to any required removal or relocation of any ad bus bench to arrange for its removal or relocation. Neither MOM nor the City of Los Angeles shall be responsible for any delays associated with the Contractor's failure to properly notify MOM as noted hereon.

STANDARD PLANS										
SPPWC, 20	12 Edition									
110-2 Driveway Approaches										
112-2	Curb and Sidewalk Joints									
120-2	Curb and Gutter - Barrier									
122-2	Cross and Longitudinal Gutters									
130-2	Alley Intersection									
131-2	Concrete Bus Pad									
204-2	Terminal Cleanout Structure									
225-2	Blanket Protection for Pipes									
313-3	Local Depressions at Catch Basins									
335-2	Pipe Connections to Existing Storm Drains									
CALTRANS	Standard Plans, 2015 Edition									
RSP A88A	Curb Ramp Details (July 21, 2017)									
	Curb Ramp and Island Passageway Details (July 21, 2017)									
LACDPW, 2	000 Edition									
3080-2	Pipe Bedding in Trenches									
City of Los A	angeles Bureau of Engineering									
S-410-2	Types of Curb and Gutter									
S-444-0	Sidewalks									
S-442-5	Curb Ramps									

UTILITIES

Cable:	XO Communications
Gas:	SoCal Gas
Oil:	Shell Pipeline Company LP & Torrance Pipeline Company LLC
Power:	Los Angeles Department of Water and Power &
	Southern California Edision
Sewer:	Sanitation District of Los Angeles County
Street Lights:	City of Los Angeles Bureau of Street Lighting &
o	Southern California Edison
Telephone:	AT&T
Water:	Los Angeles Department of Water and Power
	•

REFERENCES

Final Materials Test Report	Lab #37478, Dated 2/5/2018
Survey Field Notes:	PWFB 0921, Page 4590-4594

TOPOGRAPHY LEGEND

		topography	improvement
Curb			
Cuttor	•		
Gutter	Camarata		
Pavement	Concrete		
	Ac		
Curb Ramp			
Fence			
Driveway	- -		<u>X</u> <u>X</u>
Fire Hydrant		<u>_</u> -	
Guy Wire		\in	
Manhole			
Pipe Connecto Main Line		€ = = = = = = = = = = = = = = = = = = =	
Pole		\circ	
R/W Line			
Pull Box		PB	
Sidewalk			SHADED IF NO CONTINUOUS
Signal Control B	ox		CONTINUOUS
Signal	Traffic	Ø.	
Street Light			
Palm Tree		*	
Other Tree			
Valve		6	
Vault			
Brick (Block) Wa	all		
Curb Inlet			
Cleanout		©	

Proposed

	Existing Utilities
IS	G
	OIL
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ater	W

AC PAVEMENT CLASS & GRADE LEGEND

P2 - B-PG 64-10

NON-STANDARD ABBREVIATIONS

BBREVIATION	WORD OR WORDS
ARHM	Asphalt Rubber Hot Mix
ABND	Abandoned
BM	Bench Mark
BW	Back of Walk
CALTRANS	State of California Department
	of Transportation
COM	Commercial
C&G	Curb and Gutter
DWG	Drawing
E	Easting
EP	Edge of Pavement
FS	Finished Surface
HDPE	High Density Polyethylene
INT	Intersection
INV	Invert
L	Length
LACDPW	Los Angeles County
	Department of Public Works
LT	Left
MIL	1/1000 of an Inch
MOD	Modified
N	Northing
PIP	Protect in Place
PVC	Polyvinyl Chloride
PWFB	Public Works Field Book
RES	Residential
RT	Right
SF	Square Foot
STA	Station
SW	Sidewalk
TC	Top of Curb
VAR	Variable
W	Width

DRAWING NUMBER:				
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(MADICAG BUILT LIEDE)	5/30/19	2	ADDED NOTE PER CON	
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			REVISIONS	PRC

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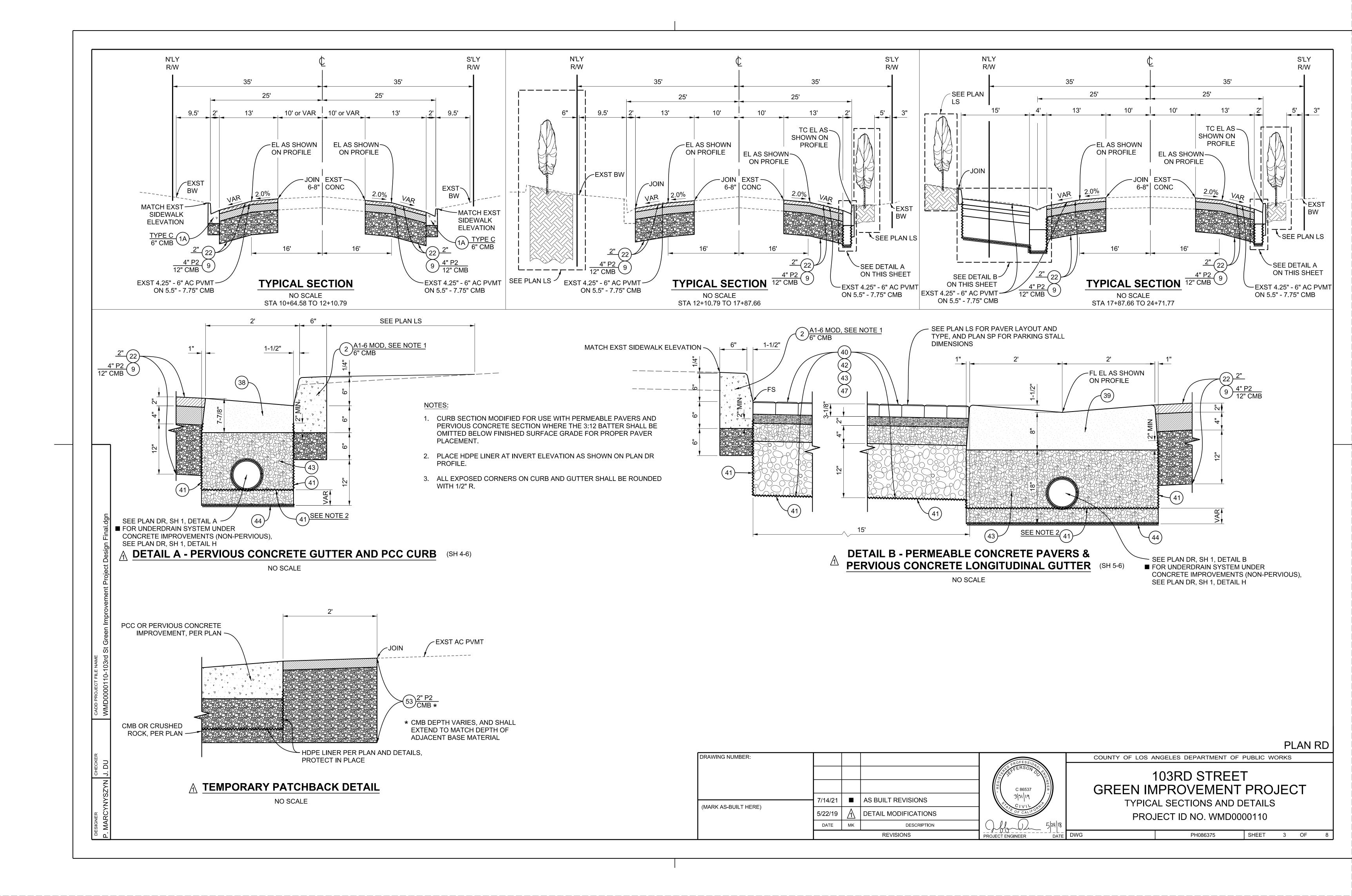
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

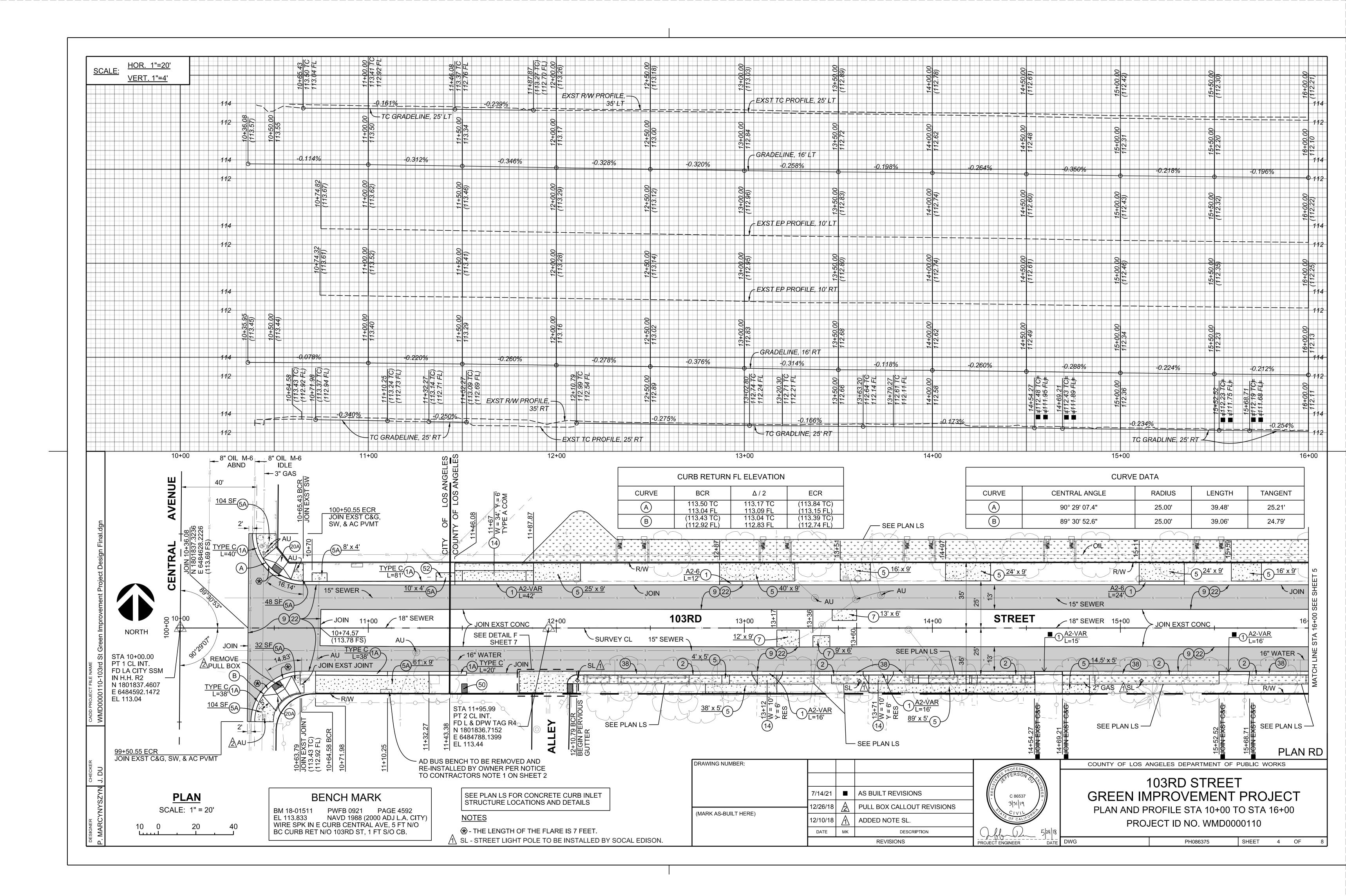
PLAN RD

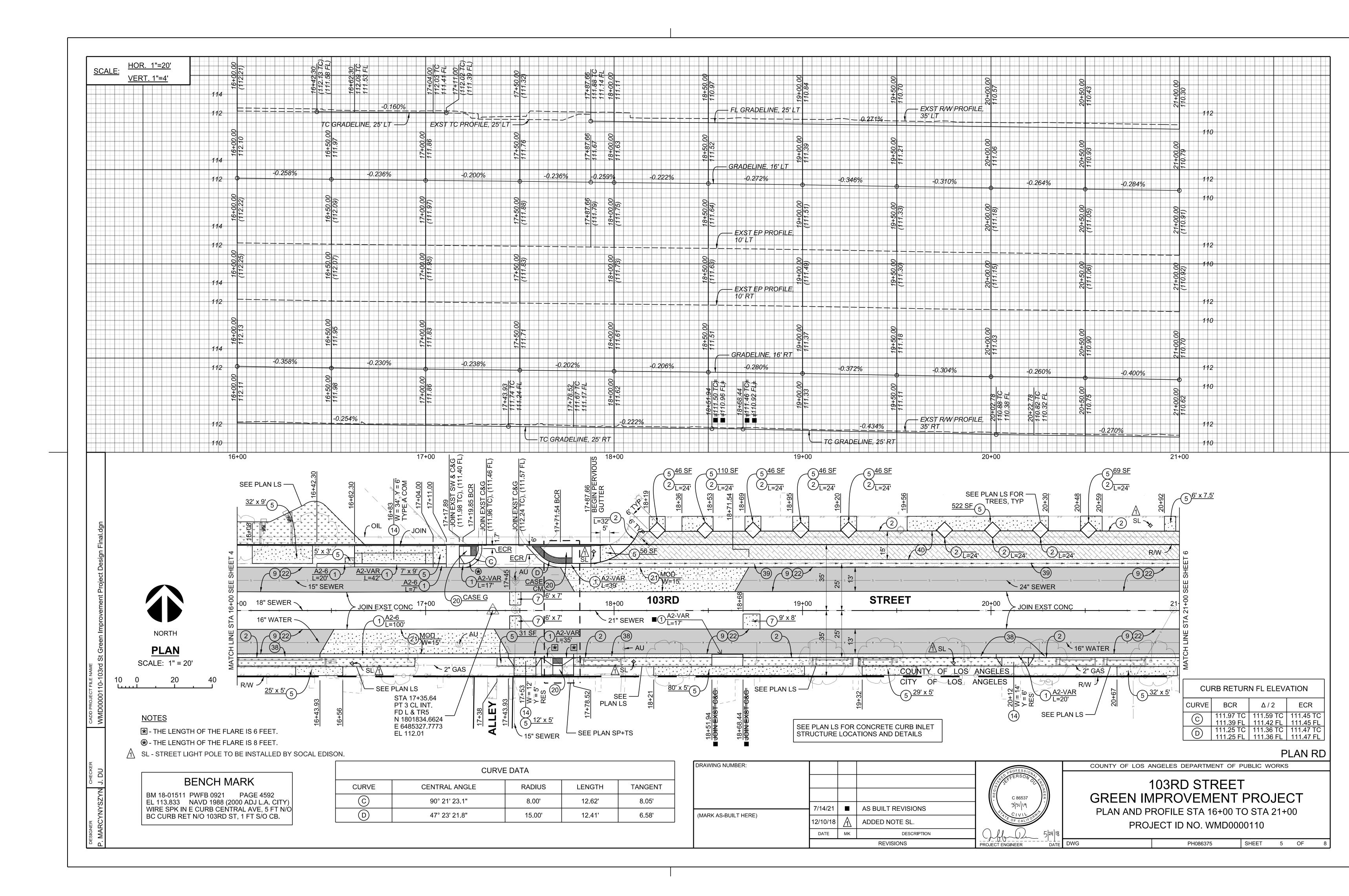
103RD STREET GREEN IMPROVEMENT PROJECT GENERAL NOTES AND INDEX TO STANDARD PLANS

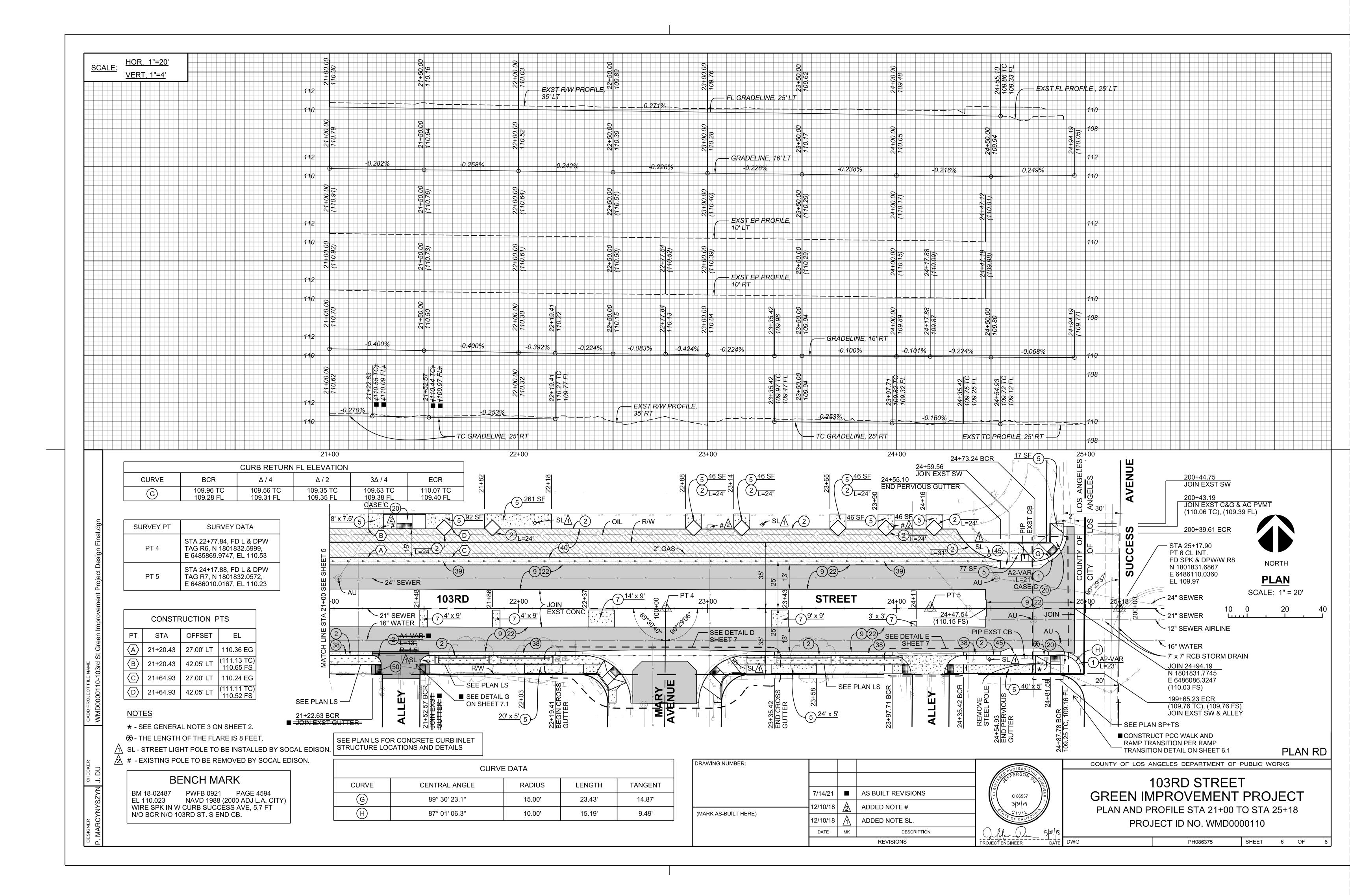
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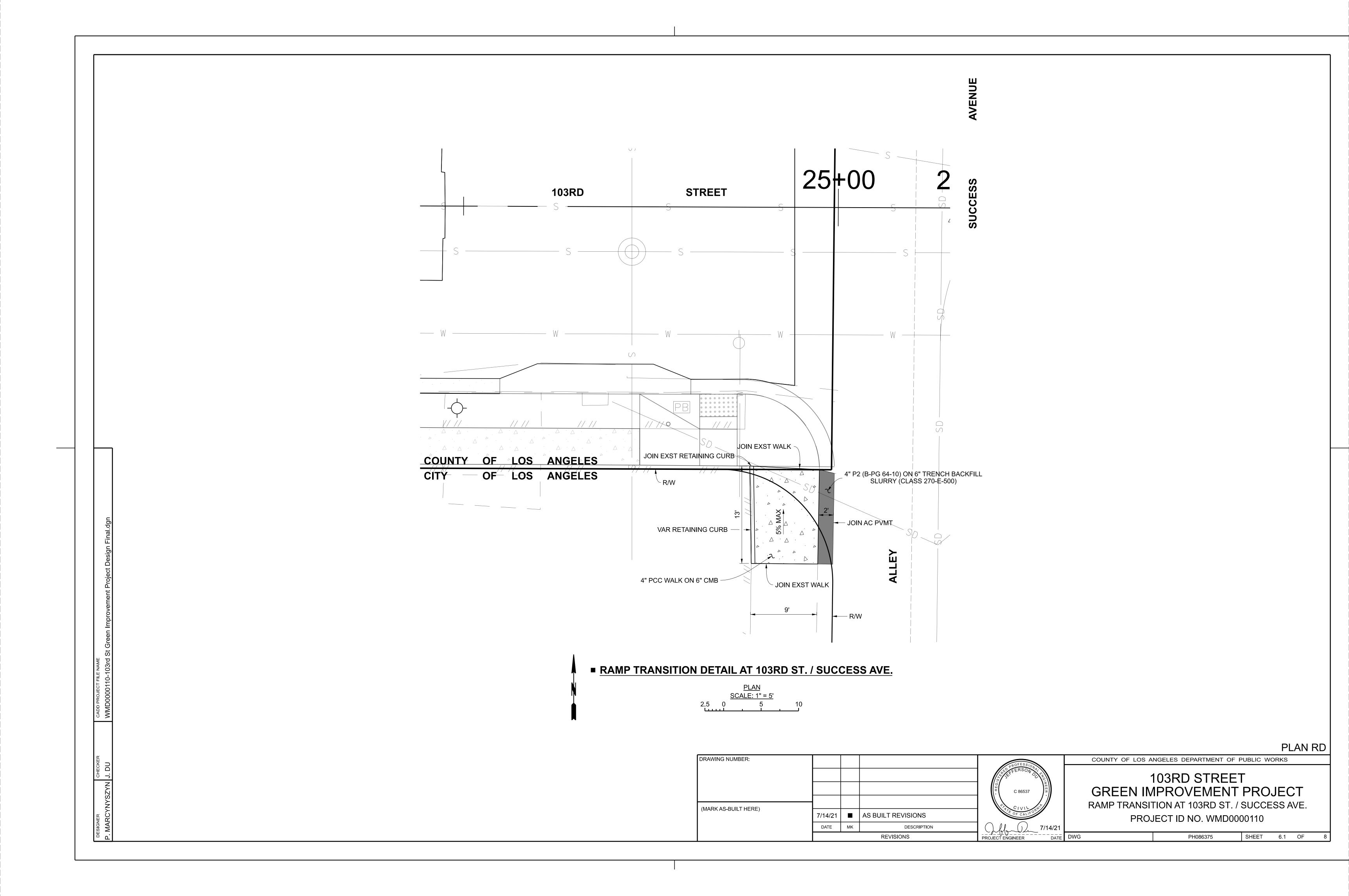
SHEET 2 OF DWG

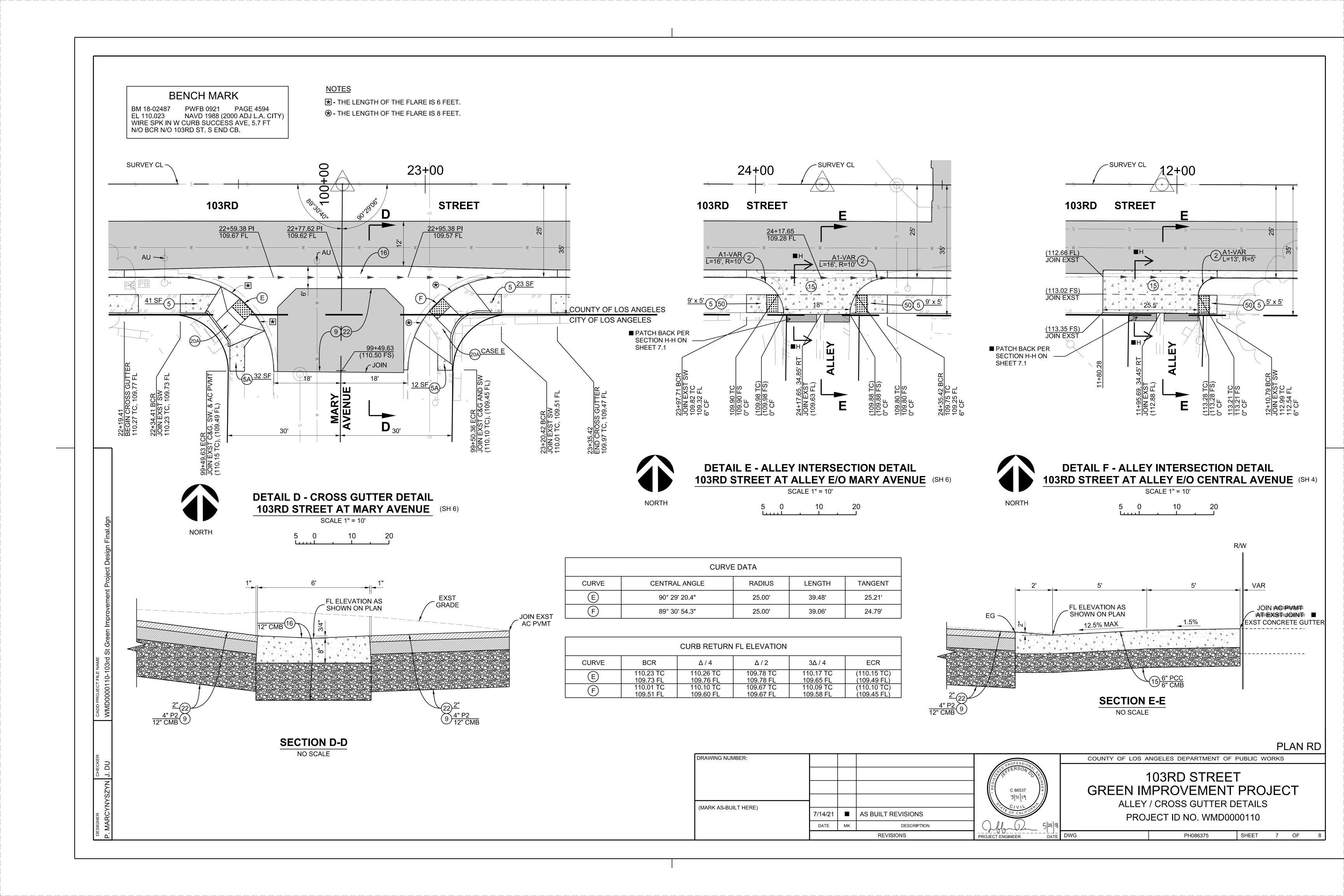


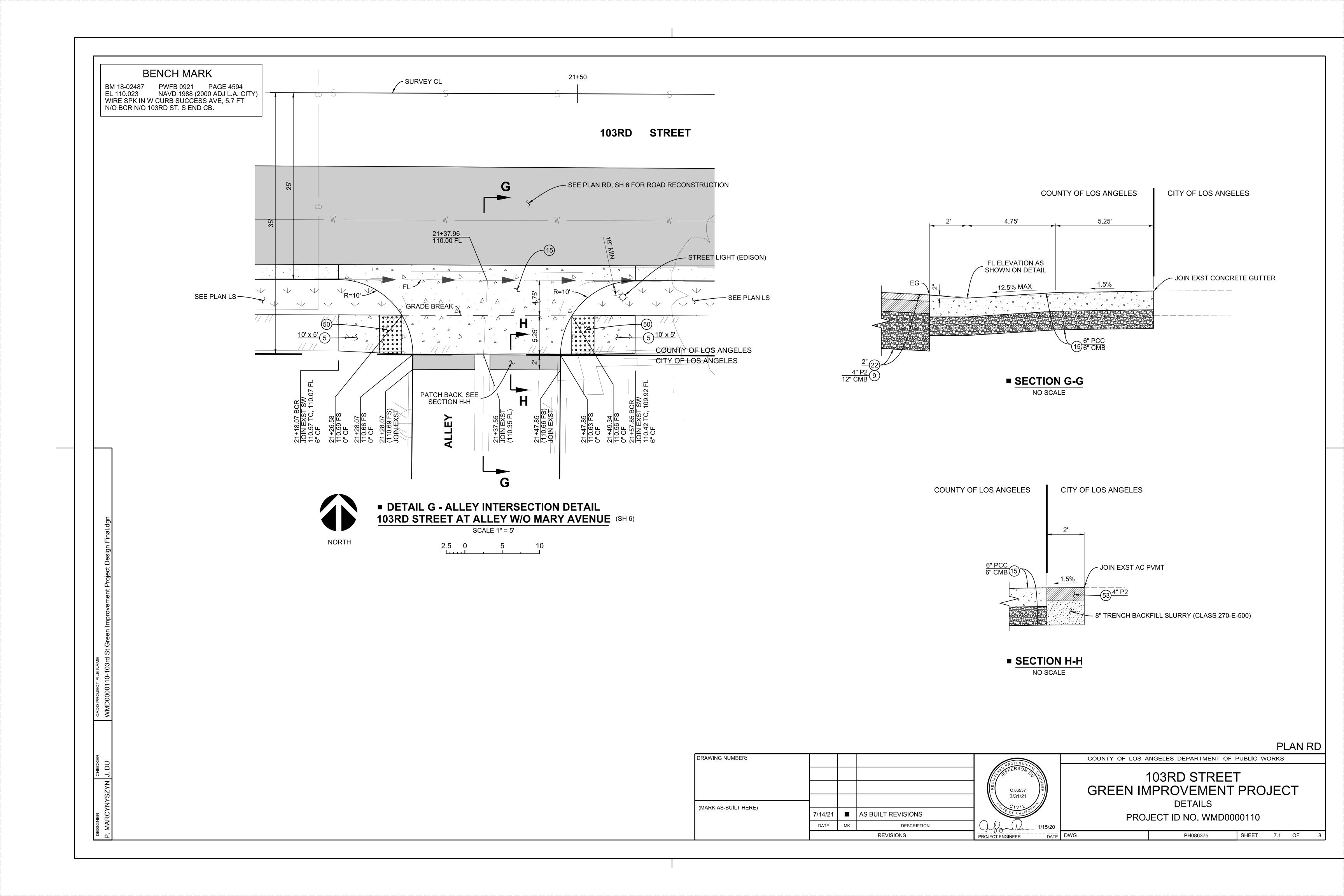






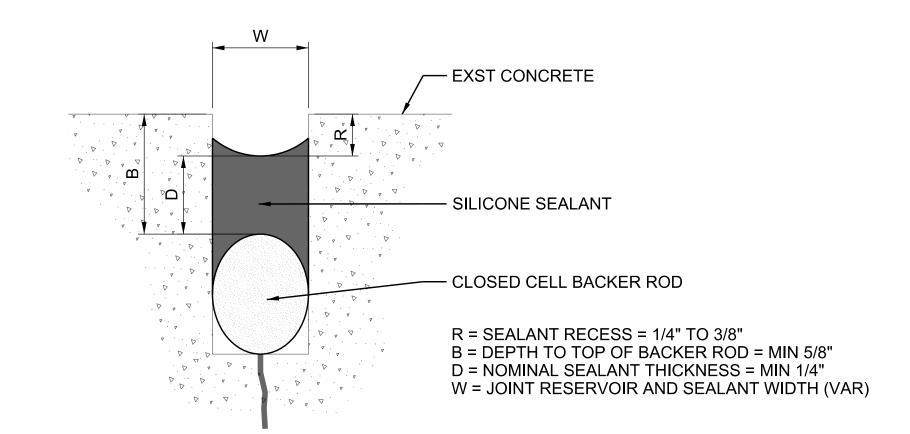






- THE DETAILS AND TABLE HEREON ONLY APPLY TO THE 20 FOOT WIDE CONCRETE SECTION IN THE CENTER OF 103RD STREET FROM CENTRAL AVENUE TO SUCCESS AVENUE.
- 2. EXACT LOCATIONS OF CRACK AND JOINT SEALING, AND CRACK FILLING WILL BE MARKED BY THE FIELD ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.

CONCRETE CRACK AND JOINT SEALING TABLE									
BEGIN STA	END STA	CRACK AND JOINT SEALING (LF)	CRACK FILLING (SF)						
10+74	11+43	60	15						
11+43	12+11	66	17						
12+11	11+00	63	16						
11+00	15+10	129	33						
15+10	16+60	60	15						
16+60	21+27	87	22						
21+27	22+60	30	8						
22+60	24+48	78	20						

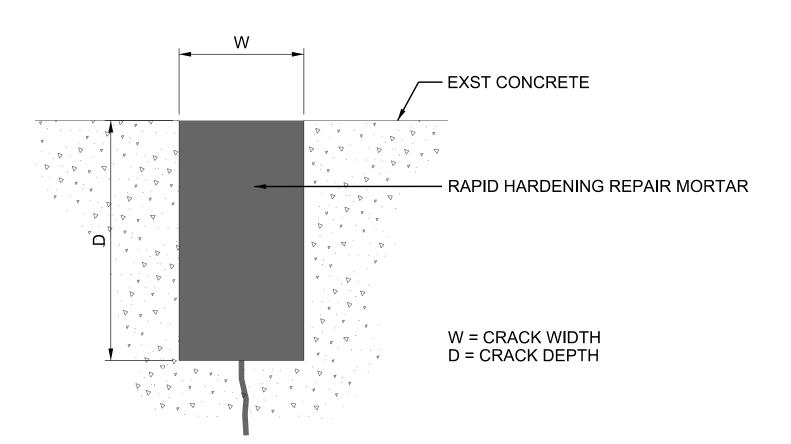


CRACK AND JOINT SEALING DETAIL

NO SCALE

CRACK FILLING DETAIL

NO SCALE



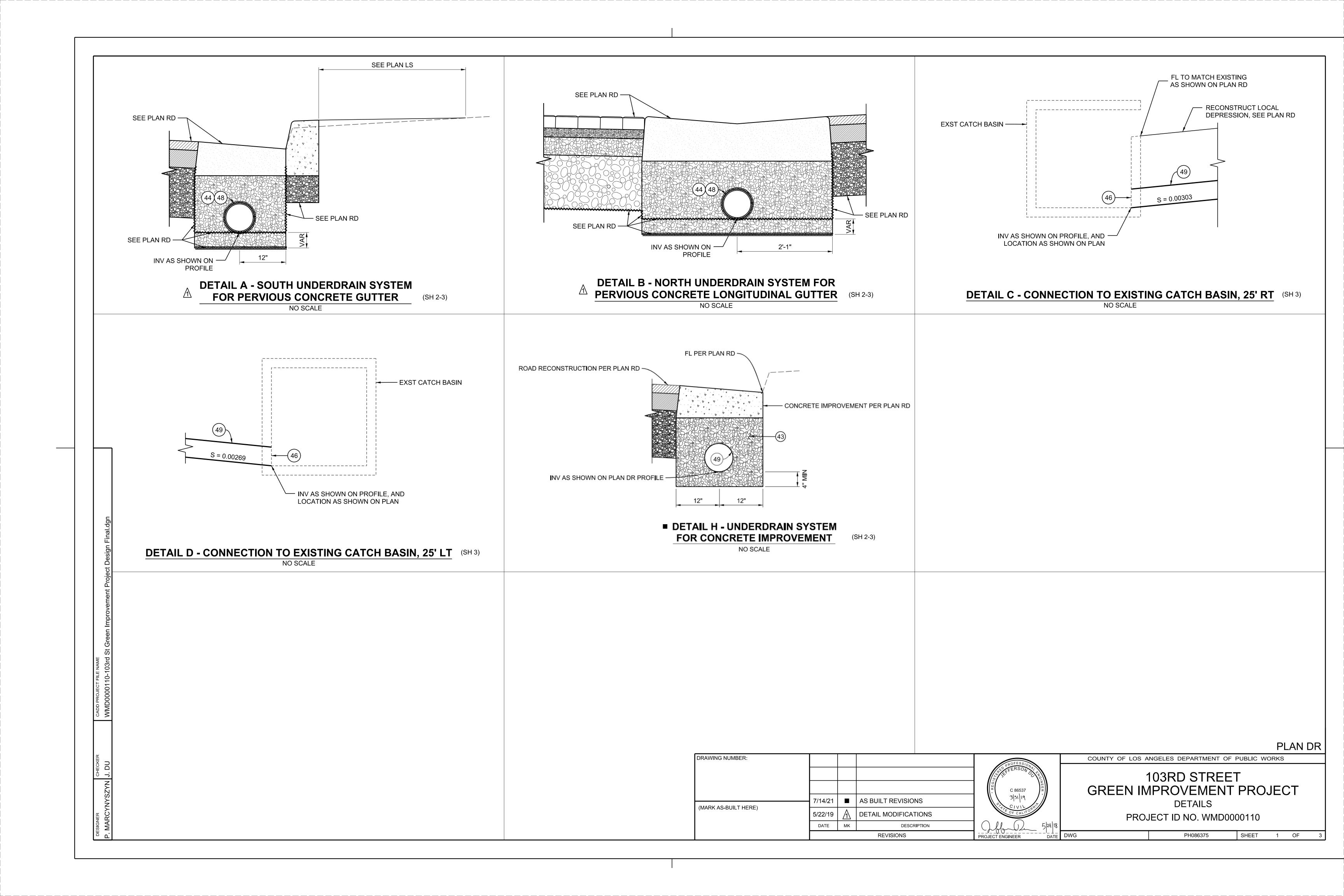
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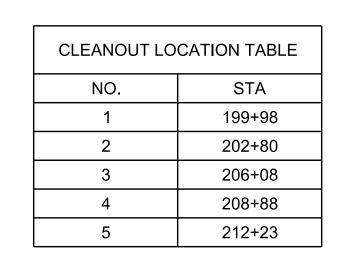
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MARK AS-BUILT HERE)				SACIVILAN	CONCRET	E CRACK AND JOIN	T SEALIN	١G	
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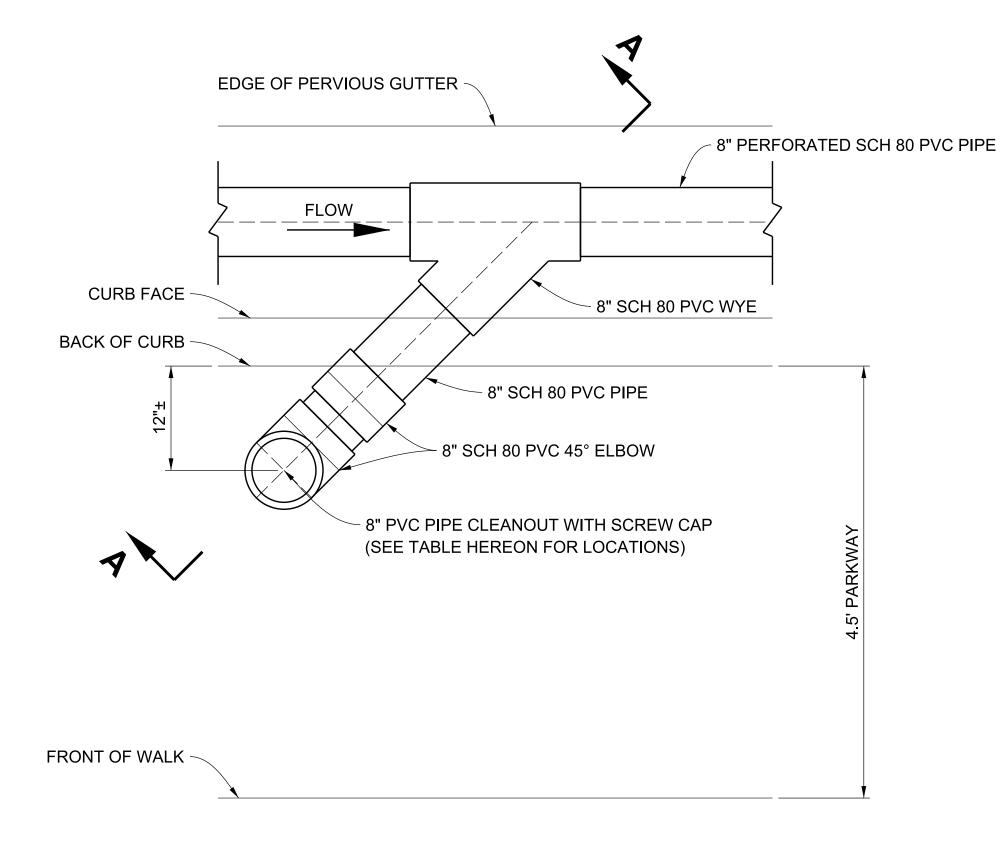
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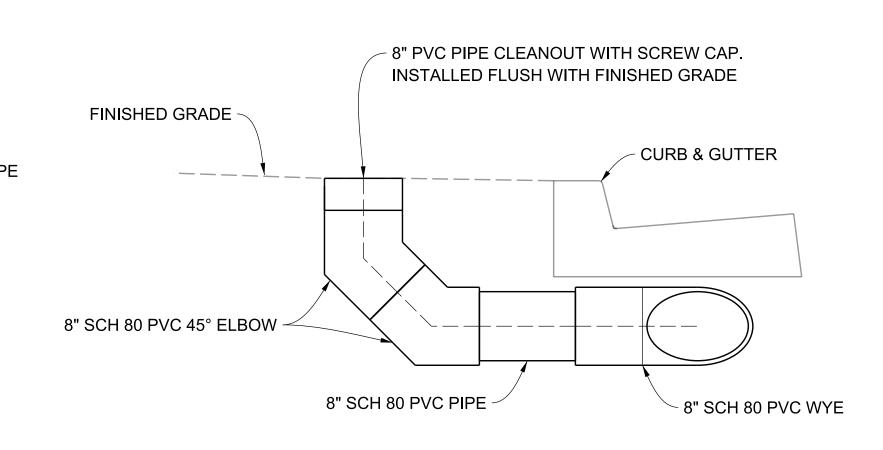


<u>NOTES</u>

1. IF THERE ARE ANY CONFLICTS WITH UTILITIES AND/OR OTHER OBSTRUCTIONS AT THESE CLEANOUT LOCATIONS, THE CONTRACTOR SHALL MOVE THE CLEANOUT UP TO 5 FEET TO AVOID THE CONFLICT. ANY PROPOSED RELOCATION GREATER THAN 5 FEET WILL NEED TO BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION.



■ CLEANOUT DETAIL (SOUTHSIDE OF 103RD ST.)
NO SCALE

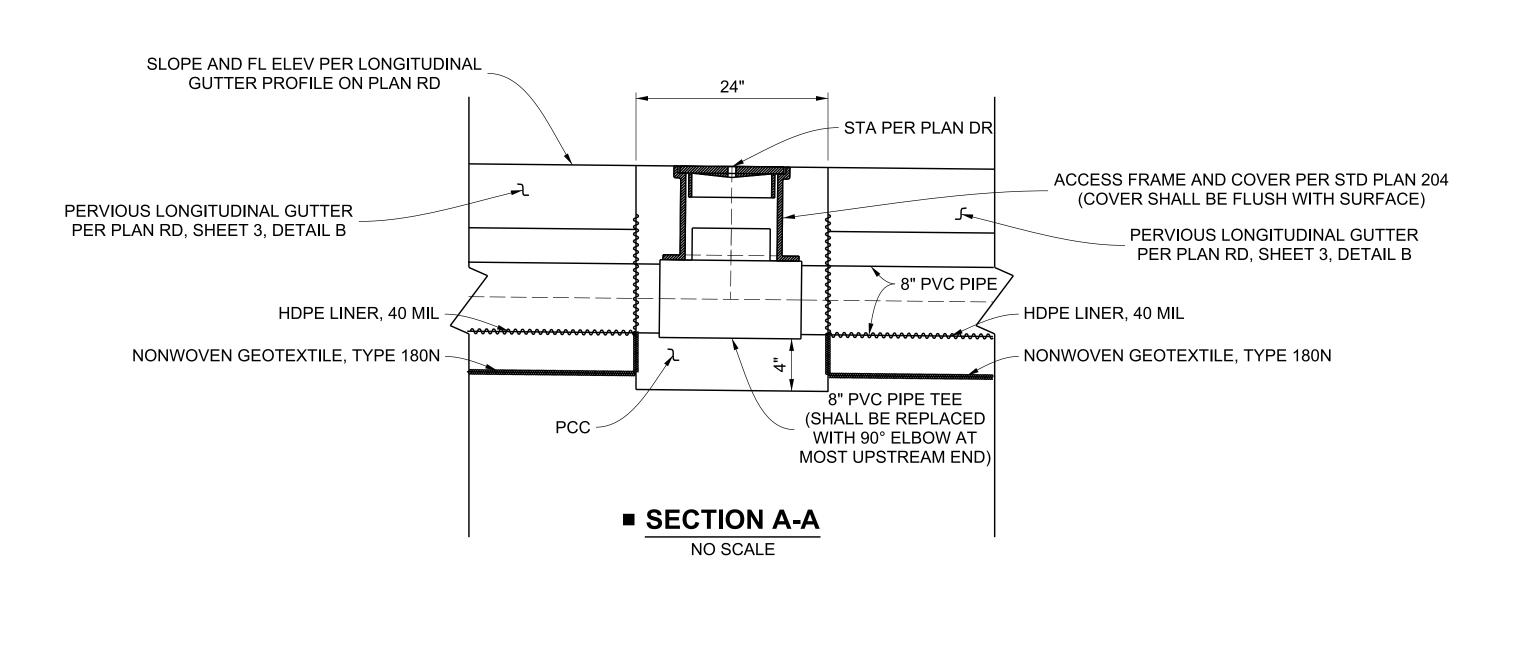


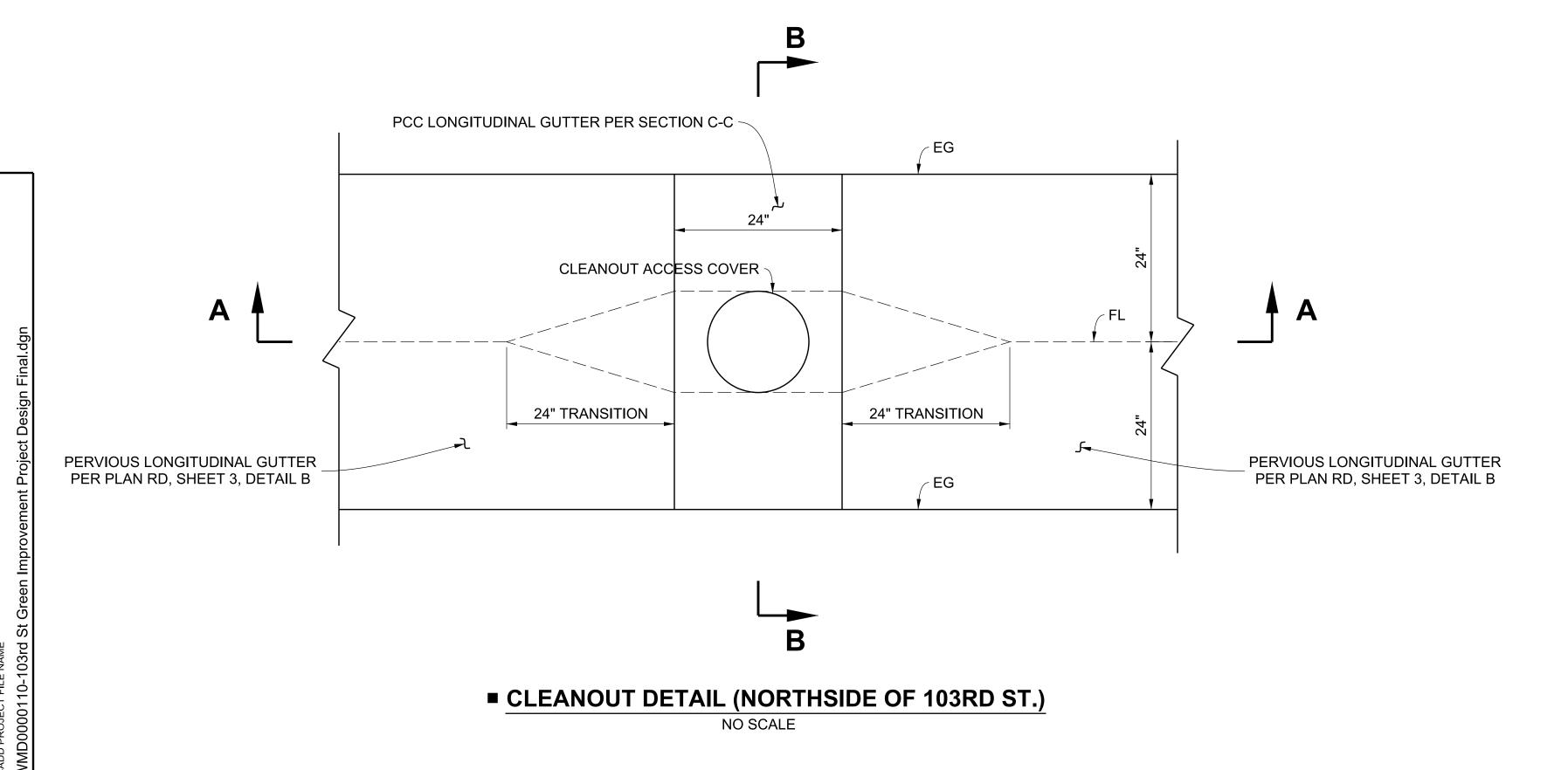
■ SECTION A-A

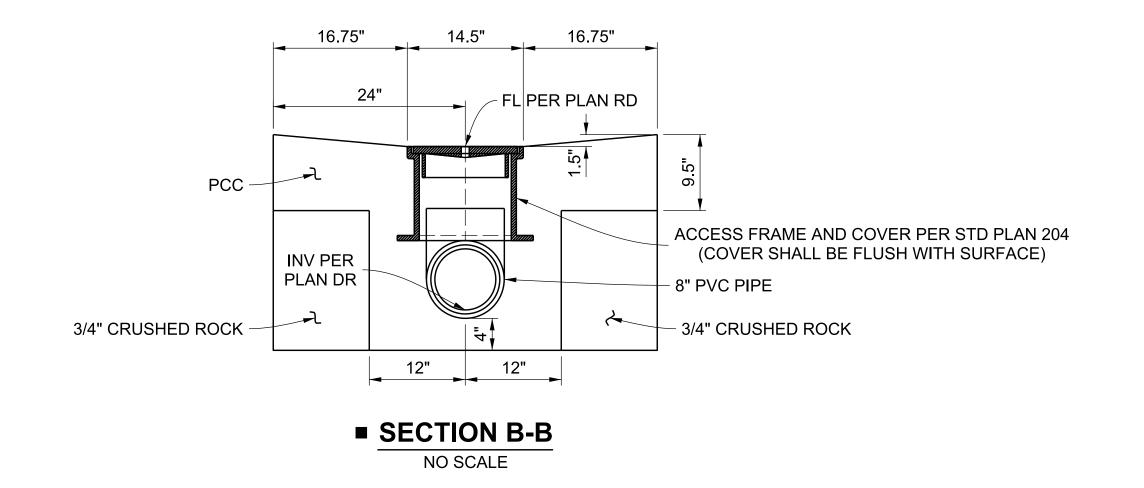
NO SCALE

PLAN DR

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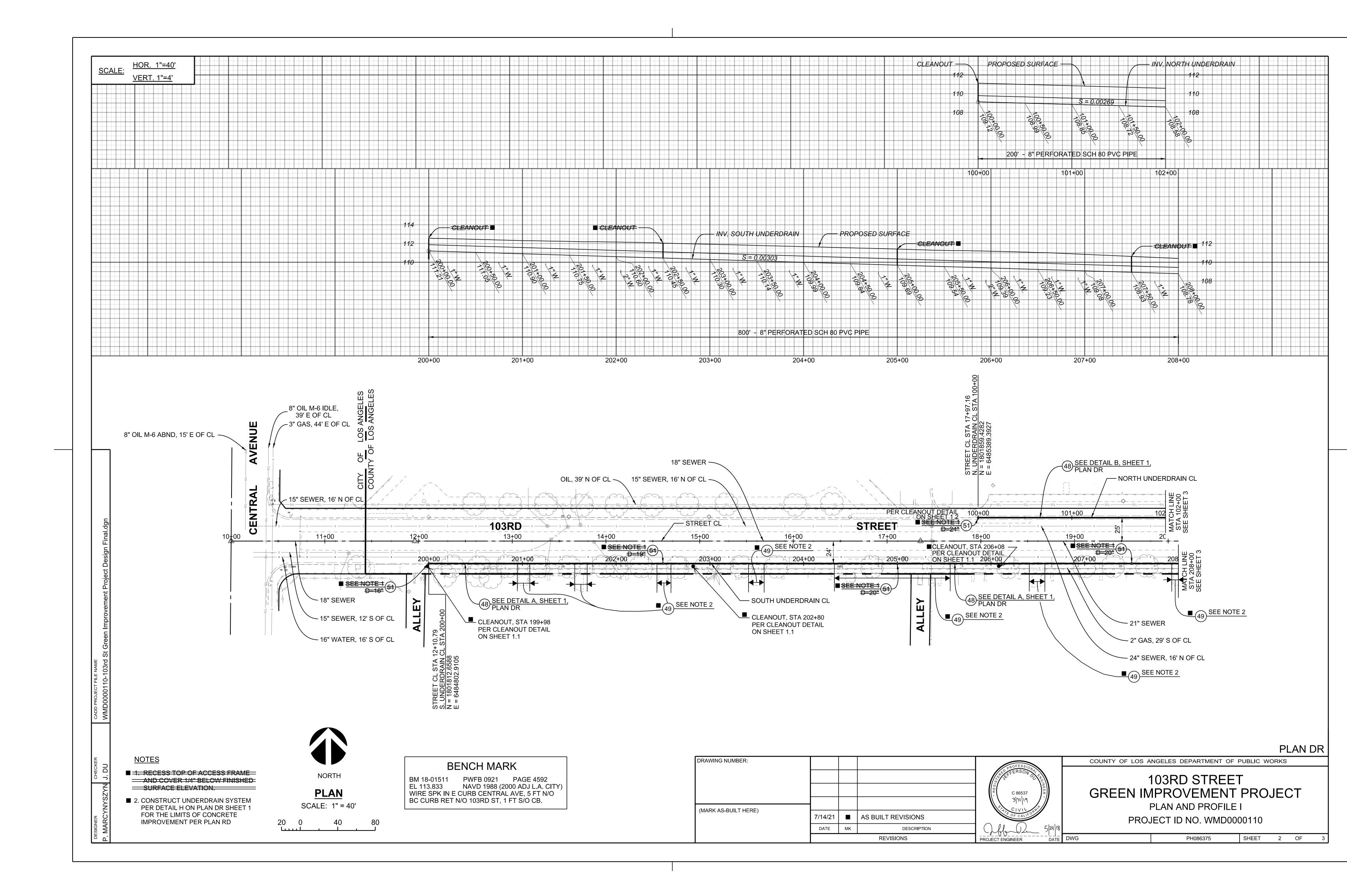


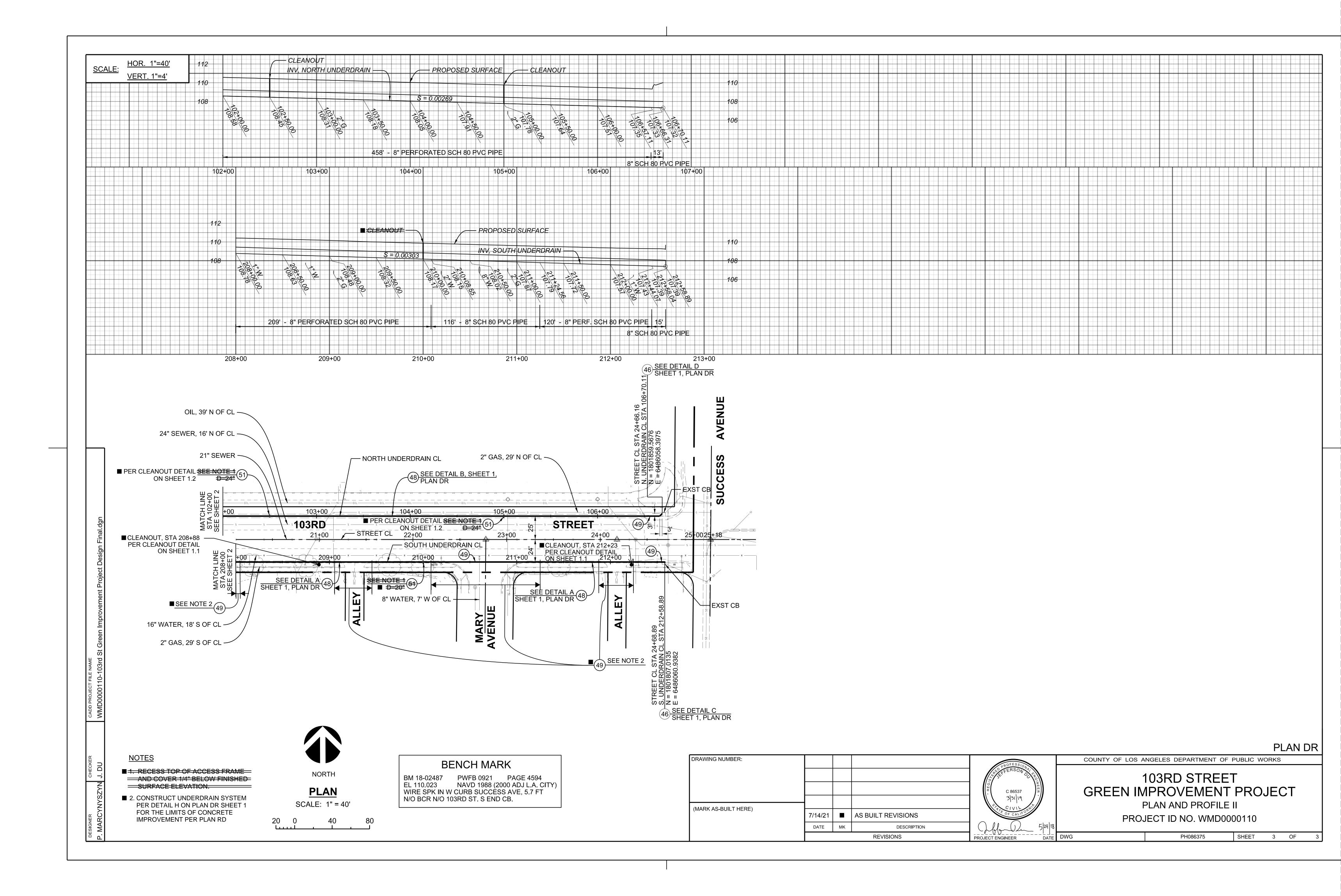


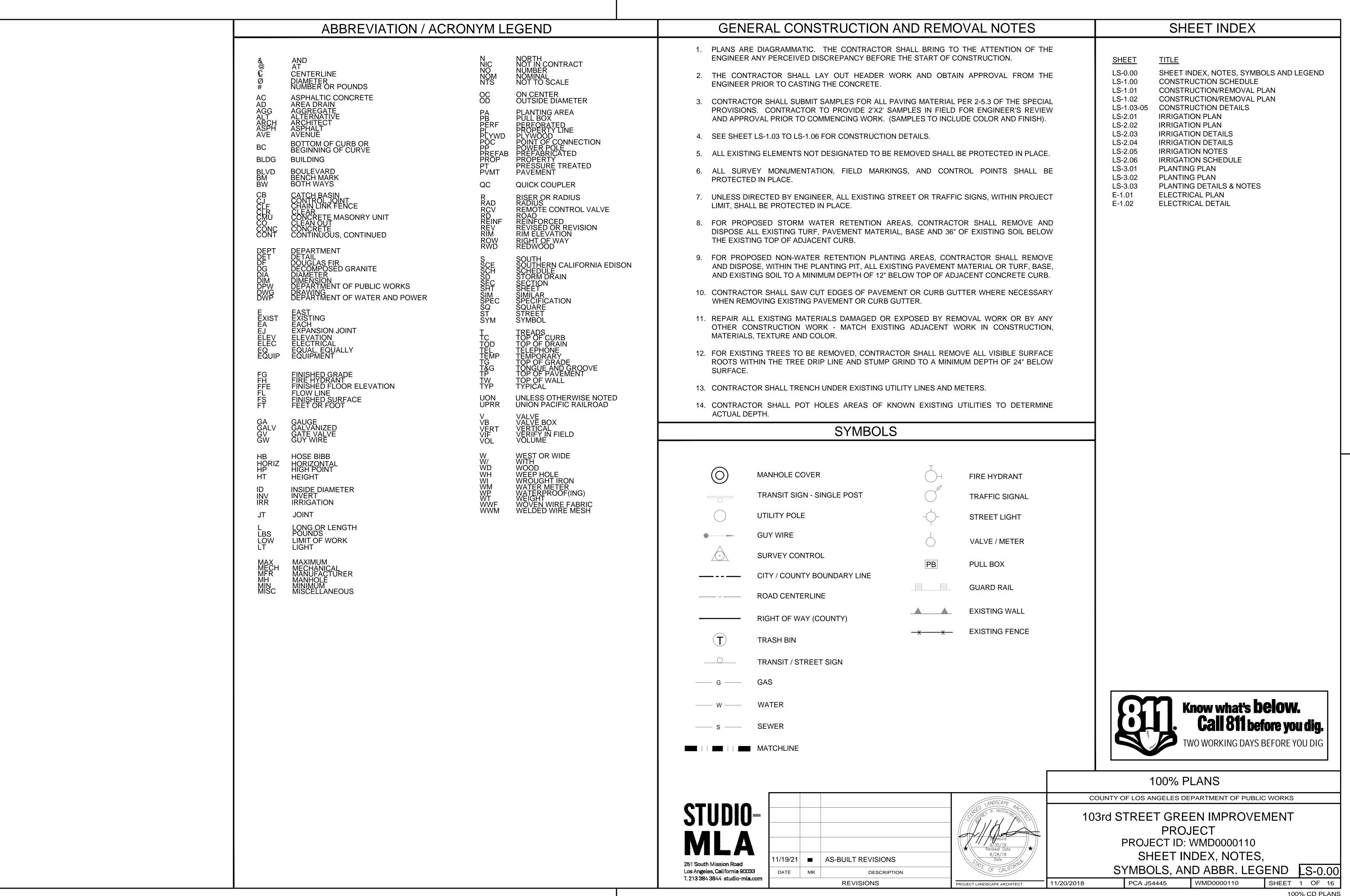


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			REVISIONS	PROJECT ENGINEER DATE	DWG	PH086375	SHEET	1.2	OF	3





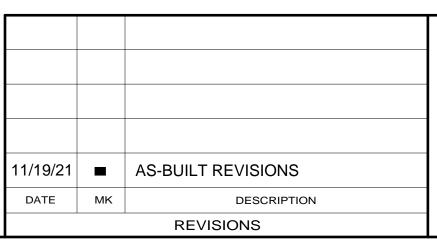


100% CD PLANS

REFE	RENCE NOTES SCHEDULE							ALTER	RNATE-MANUFACTU	IRERS	
CODE	DESCRIPTION	DETAIL									
1	BIKE RACK - EXISTING										
2	EXIST. TREE TO BE PROTECTED IN PLACE										
									1		
	AMENITIES										
CODE	DESCRIPTION	DETAIL	MODEL		COLOR	MANUFACTURER		MODEL POLA	FINISH	COLOR	MANUFACTURER
A-01	BIKE RACK - PROPOSED	3/LS-1.05	FU-202-SM-GF	GALVANIZED	NATURAL	BRP ENTERPRISE 800-438-5311		BRWS-101 / BOLA	GALVANIZED	NATURAL	VICTOR STANLEY / LANDSCAPE FORMS
A-02	BIKE REPAIR STATION	1/LS-1.05	REPAIR-STAN	POWDER COAT	FOREST GREEN	MADRAX 1-800-448-7931		FIX IT / PUBLIC WORK STAND	POWDER COAT	FOREST GREEN	DERO / BIKE FIXATION
A-03	TIRE PUMP	4/LS-1.05	PHIL-UP	POWDER COAT	FOREST GREEN	MADRAX 1-800-448-7931		AIR KIT 2 / OUTDOOR BIKE PUMP	POWDER COAT	FOREST GREEN	DERO / BIKE FIXATION
A-04	INTERPRETIVE SIGN AND PEDESTAL	2/LS-1.05									
A-05	BIG BELLY TRASH BIN			POWDER COAT	FOREST GREEN	BIG BELLY					
A-06	TRASH RECEPTACLE 1		TF1150	PER DPR	PER DPR	WAUSAU					
A-07	TRASH RECEPTACLE 2		84-32-FTO	POWDER COAT	BLACK	DUMOR, INC					
0005	DEMOLITION										
CODE	DESCRIPTION	DETAIL	REMARKS								
D-01	REMOVE EXIST. VEGETATION AND SOIL		TOP 6" OF SOIL TO BE REMOVED								
D-03	REMOVE EXIST. TREE AND GRIND STUMP										
E-01	SOLAR PANEL AND BATTERY UNIT										
CODE	DESCRIPTION	DETAIL						MODEL	FINISH	COLOR	MANUFACTURER
M-01	SS DEBRIS MESH	2/LS-1.04	SUBMIT SHOP DRAWINGS					SIDE WALL GRATES / CURB GUARD	STAINLESS STEEL	NATURAL	J.R. HOE / BIO CLEAN ENVIRONMENTAL
M-02	TREE GRATE AND FRAME	5/LS-1.05						JAMISON ADA GRATE / QUE GRATE	GREY IRON / GREY IRON	BLACK DIP / BLACK DIP	URBAN ACCESSORIES / IRON AGE DESIGNS
	EXISTING PAVING										
CODE	DESCRIPTION	DETAIL	MODEL / MATERIAL	FINISH	COLOR	MANUFACTURER	REMARKS	MODEL	MATERIAL	FINISH	MANUFACTURERS
P-01	METAL GRATE OVER CURB INLET/OUTLET STRUCTURE	4/LS-1.04	ANGLE / RECYCLED GREY IRON	RUST CONDITIONER		URBAN ACCESSORIES (877) 487-0488		BRIAR / REGULAR JOE	GREY IRON / DUCTILE IRON	NATURAL / RAW	IRONSMITH / IRONAGE DESIGNS
P-02	HANDICAP PAVING	1/LS-1.04	HANDICAP KIT	PER KIT	PER KIT	ORCO (951) 685-8498		HANDICAP KIT / ADA PARKING PAVER	PER KIT / PER KIT	PER KIT / PER KIT	ACKERSTONE / LOW COUNTRY PAVER
P-03	PARKING STRIPING	1/LS-1.04			TUSK WHITE =	ORCO (951) 685-8498		STRIPING / HOLLAND		PEWTER / CHARCOAL	ACKERSTONE / ANGELUS PAVING
					CO #4	Parking Striping changed from Solar Gray to	Tusk White.				
4	EXISTING PAVING										
CODE	DESCRIPTION	DETAIL	MATERIAL	FINISH	COLOR	MANUFACTURER	REMARKS			014	101/20020000000000000000000000000000000
P-03-1	ADA FIELD (BLUE)	1/LS-1.04			HANDICAP BLUE	ORCO (951) 685-8498		ADA PAVER / HOLLAND PAVER		SLATE / SLATE	ACKERSTONE / ANGELUS PAVING
P-04	CONCRETE PAVING		CONCRETE	LIGHT BROOM	NATURAL GRAY		520-C-2500 MIX				
P-05	PERMEABLE CONCRETE PAVERS		AQUA-BRIC	BEVEL EDGE	MANOR	ORCO (951) 685-8498	SEE PLAN RD	AQUA-VIA / PERMEABLE HOLLAND	BEVEL EDGE / HOLLAND	ANTIQUE GREY / GREY	ACKERSTONE / ANGELES PAVING
P-07	CURB INLET/OUTLET STRUCTURE	3/LS-1.04	CONCRETE	LIGHT BROOM	NATURAL GRAY						
	EXISTING WALL										
CODE	DESCRIPTION	DETAIL	MATERIAL	FINISH	COLOR	REMARKS					
W-01	CONCRETE RETAINING WALL TYPE 7		CONCRETE		NATURAL	SPPWC 616-3 REINFORCED CONCRETE RETAINING WALL TYPE	2/LS-1.03				
						7A					
W-02	6" WIDE REINFORCED CONCRETE PLANTER WALL	1/LS-1.03	CONCRETE	SMOOTH	NATURAL						









100% PLANS

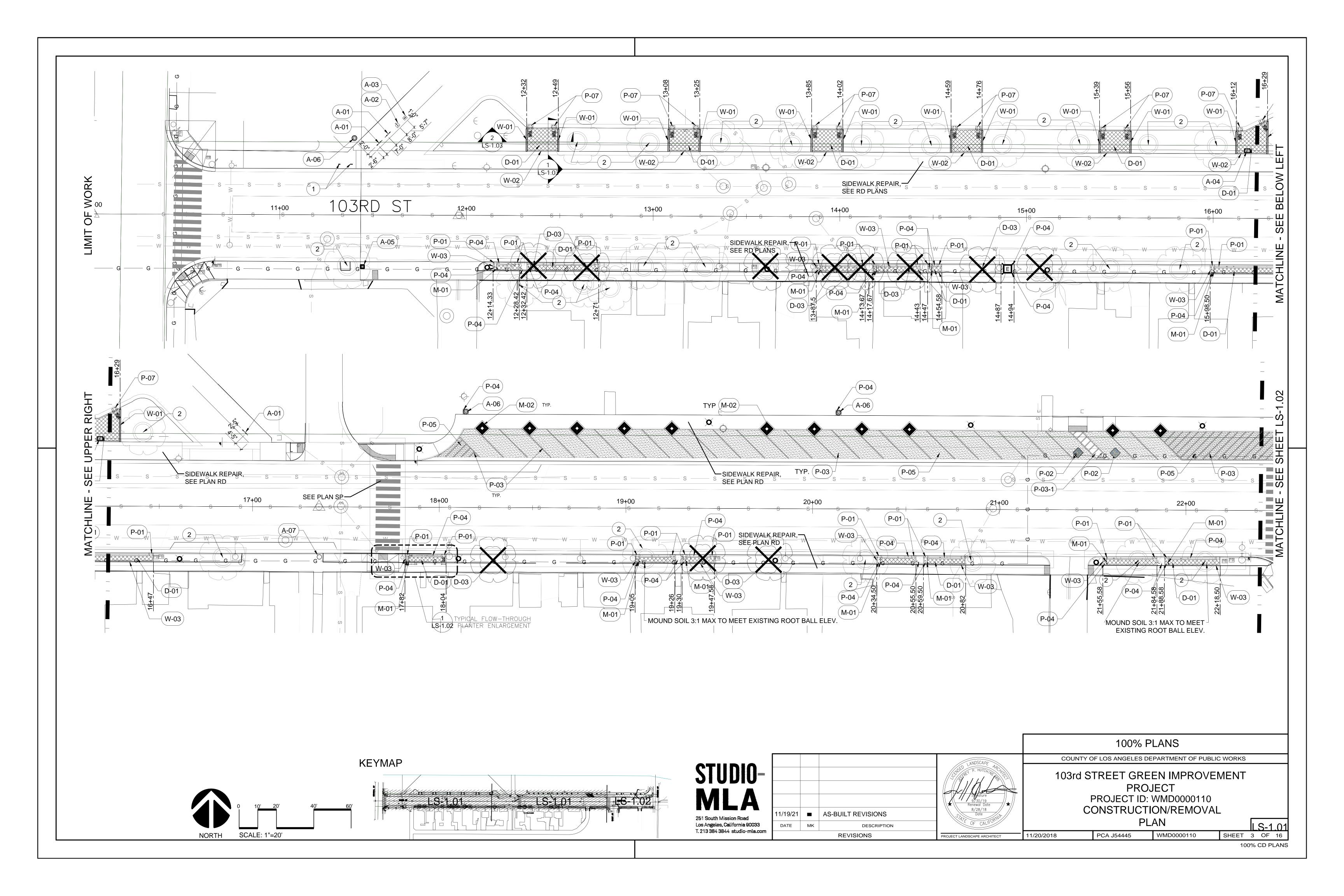
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

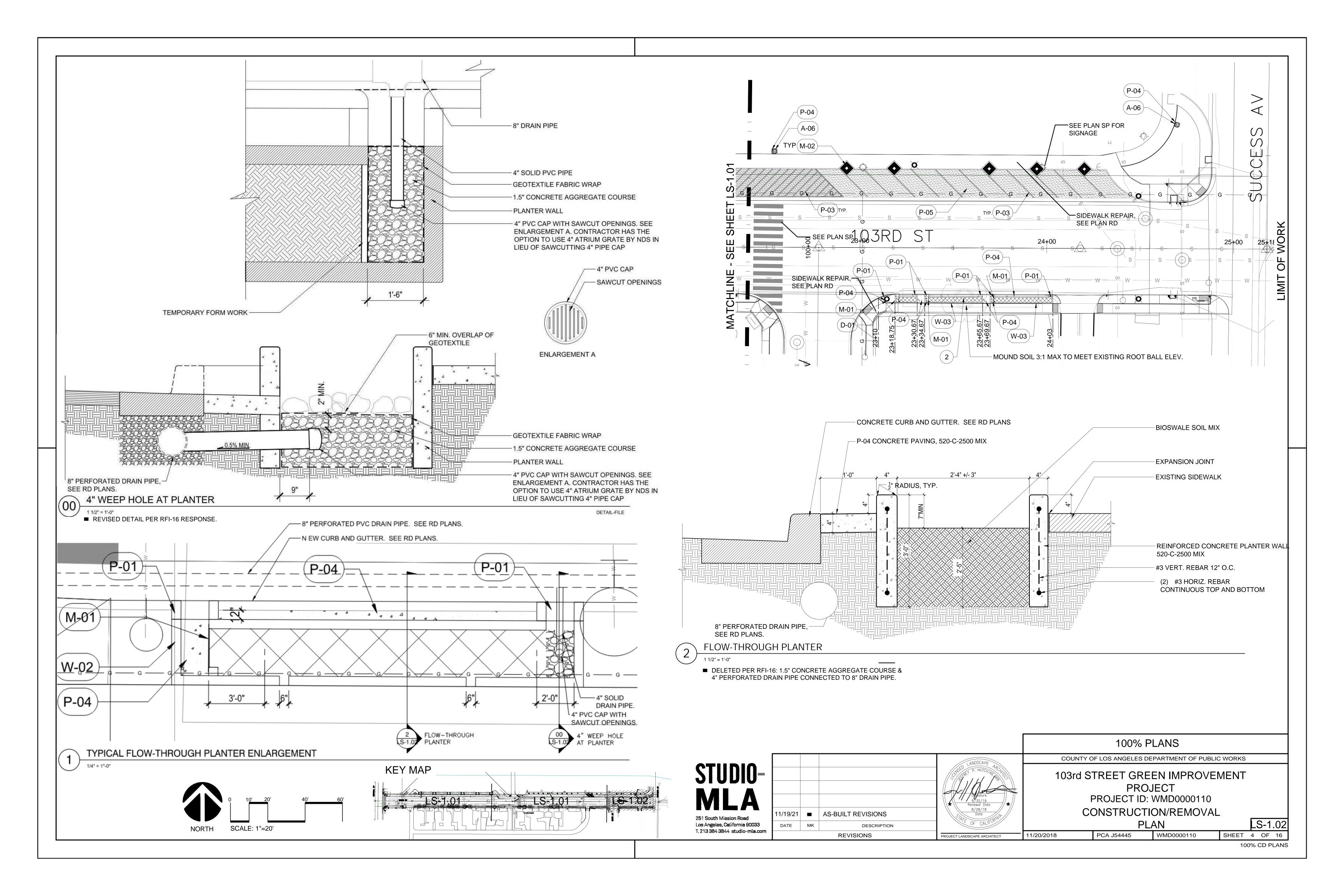
103rd STREET GREEN IMPROVEMENT PROJECT PROJECT ID: WMD0000110

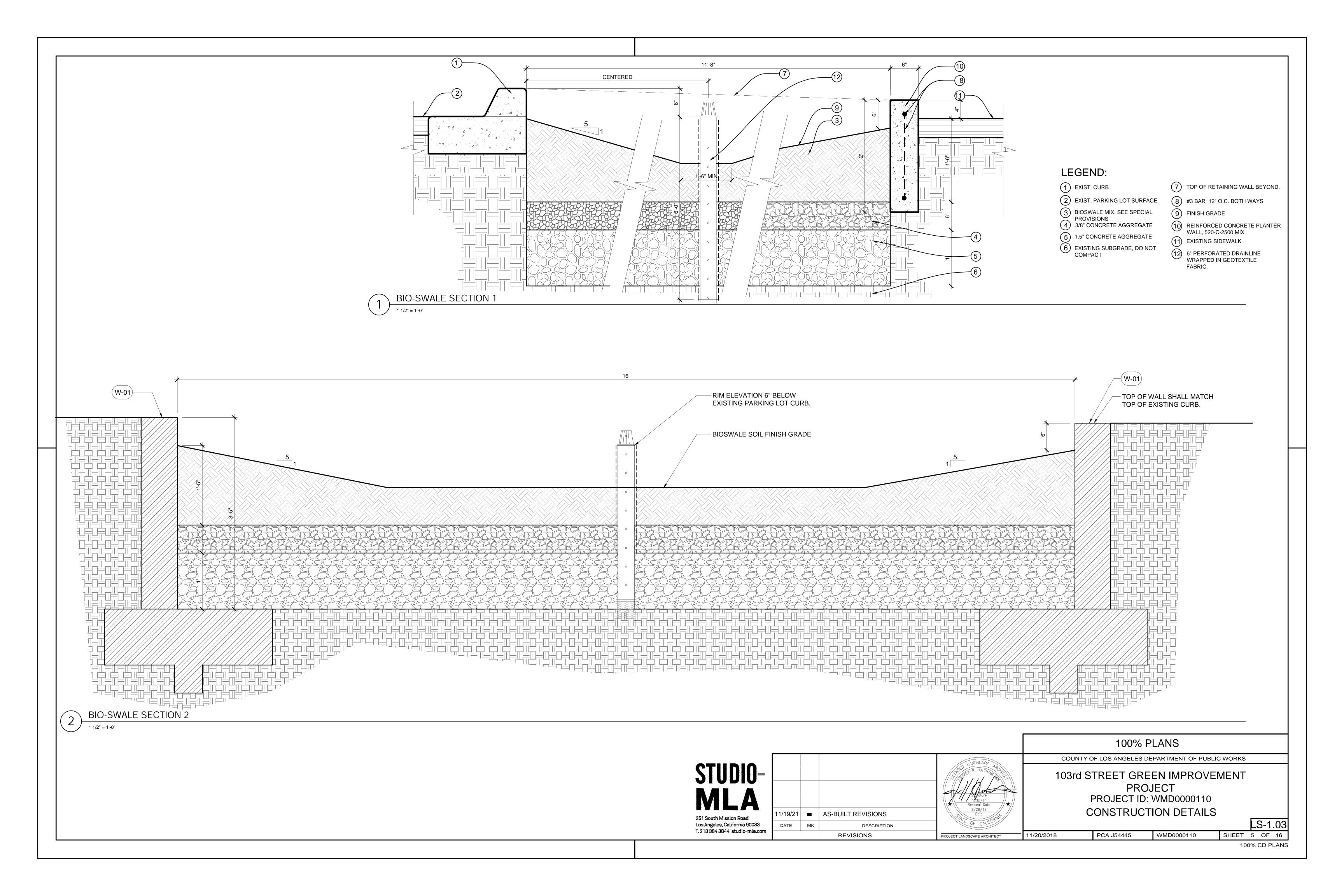
CONSTRUCTION LEGEND

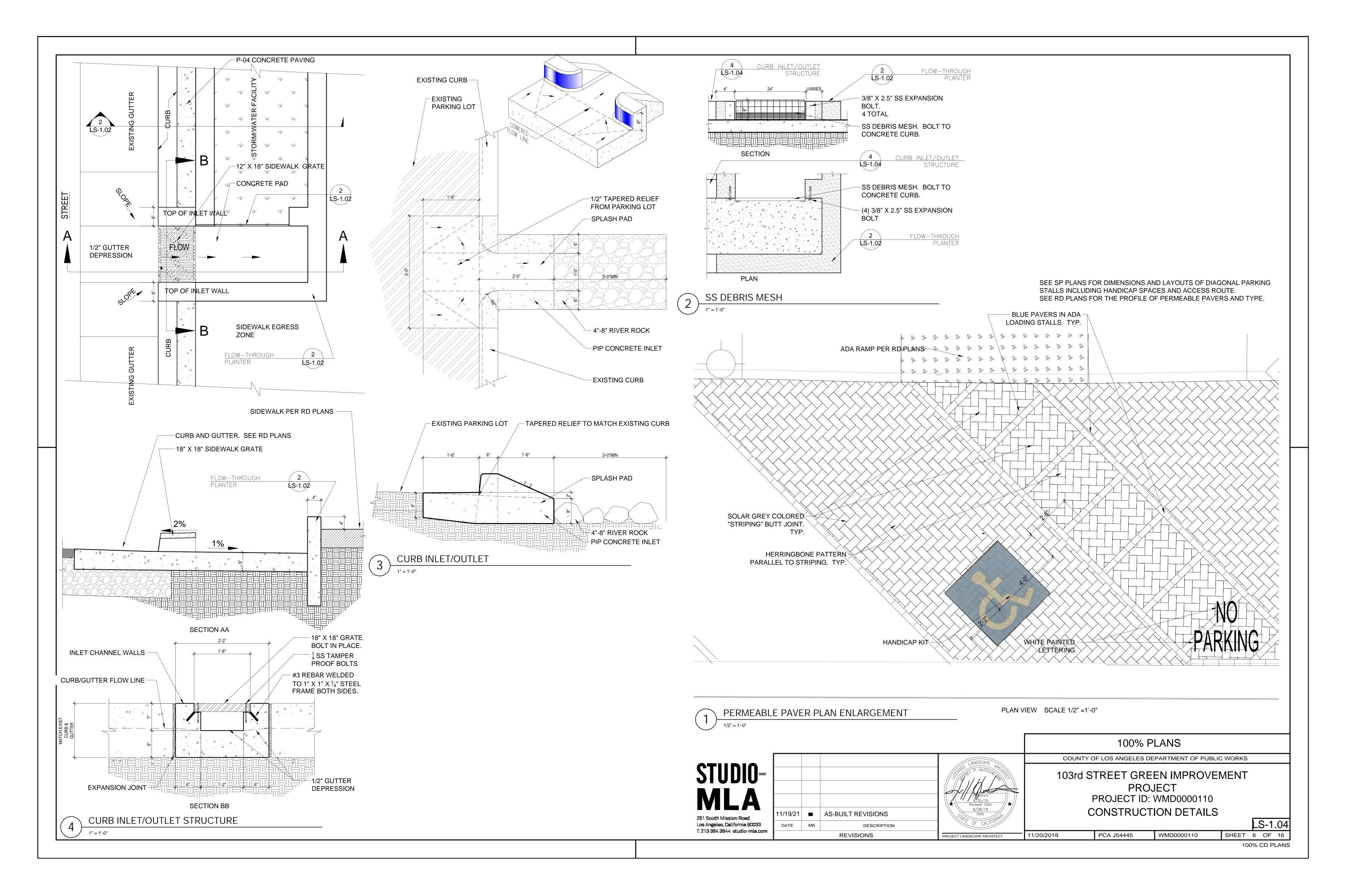
LS-1.00 SHEET 2 OF 16 PCA J54445 WMD0000110 11/20/2018

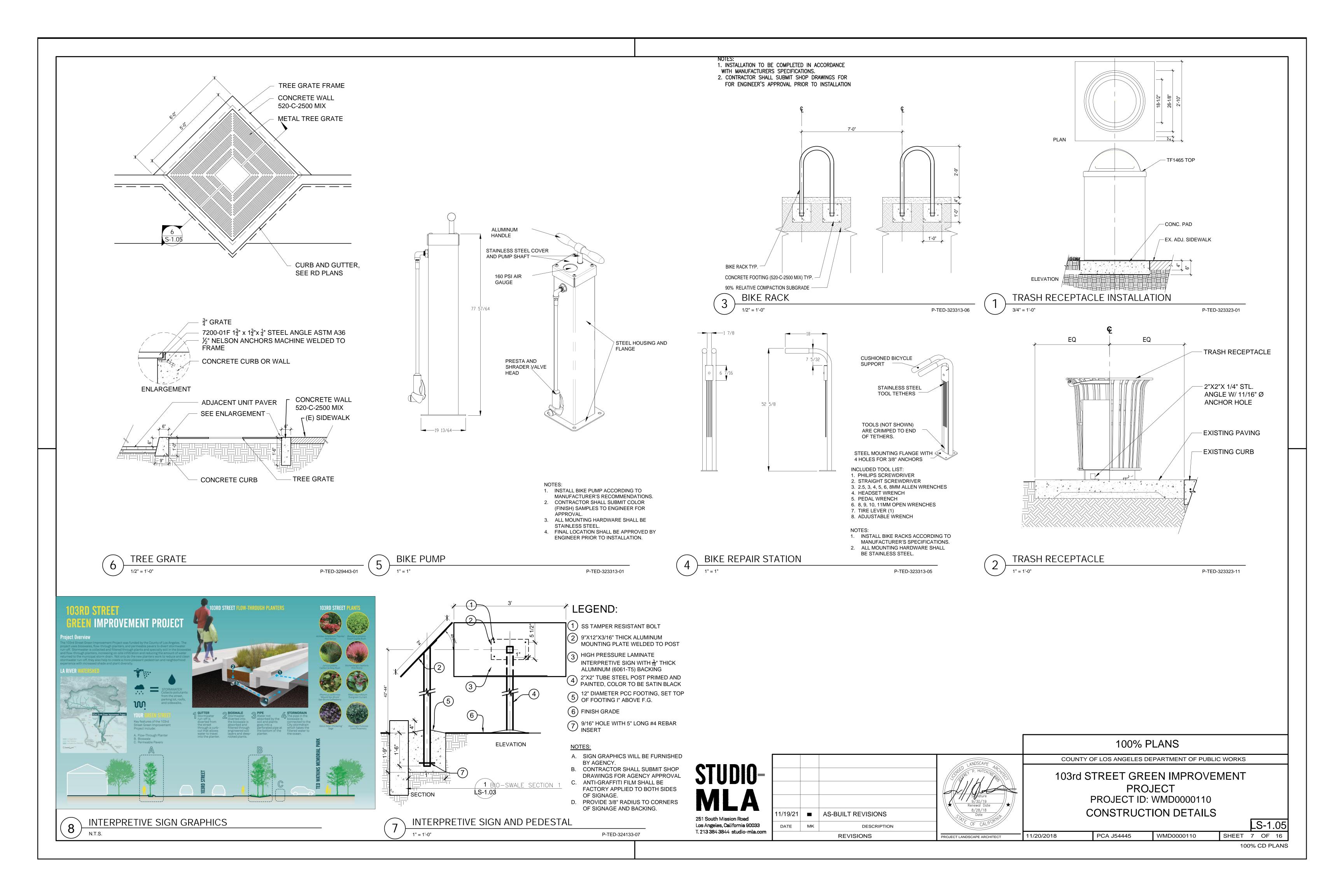
100% CD PLANS

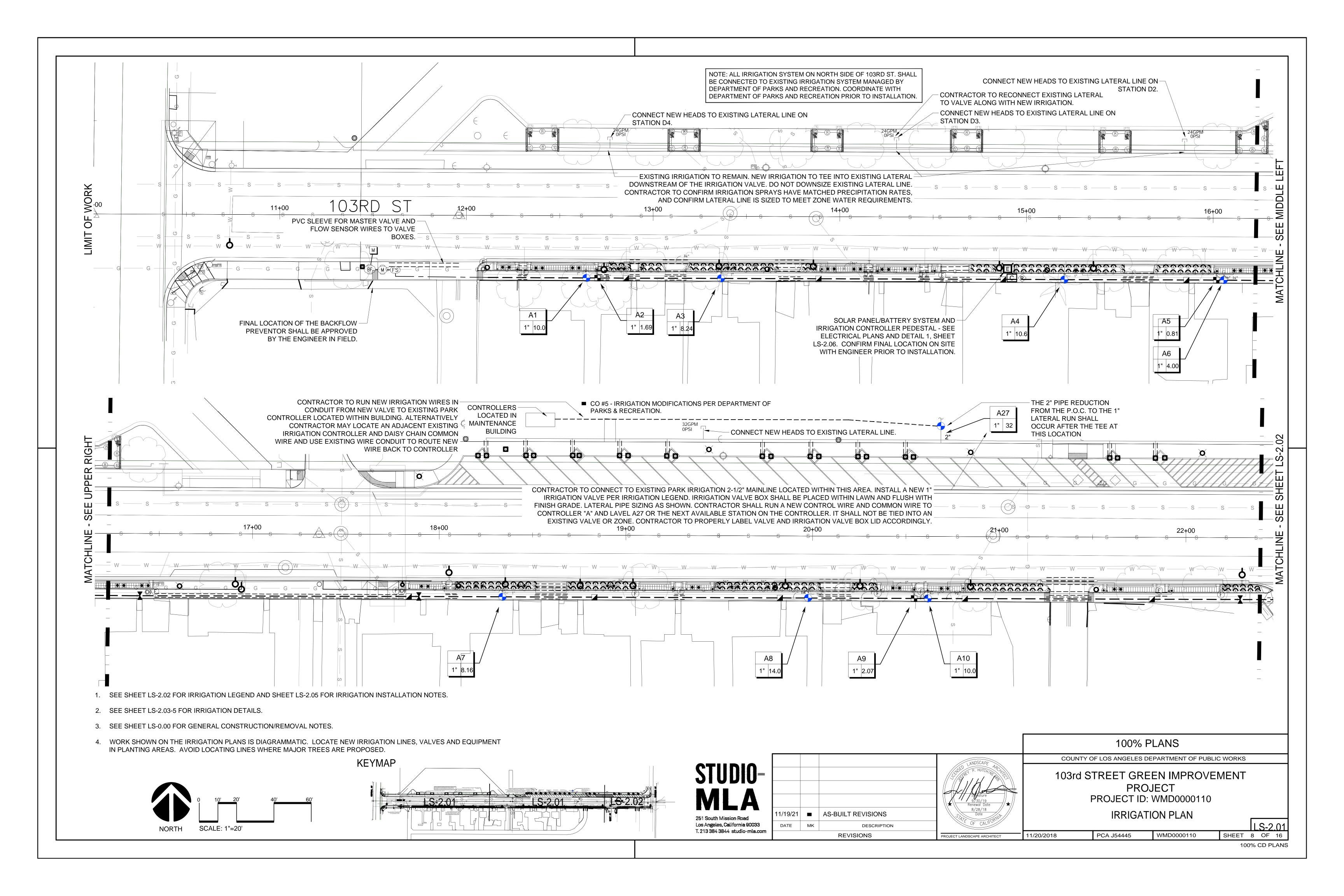






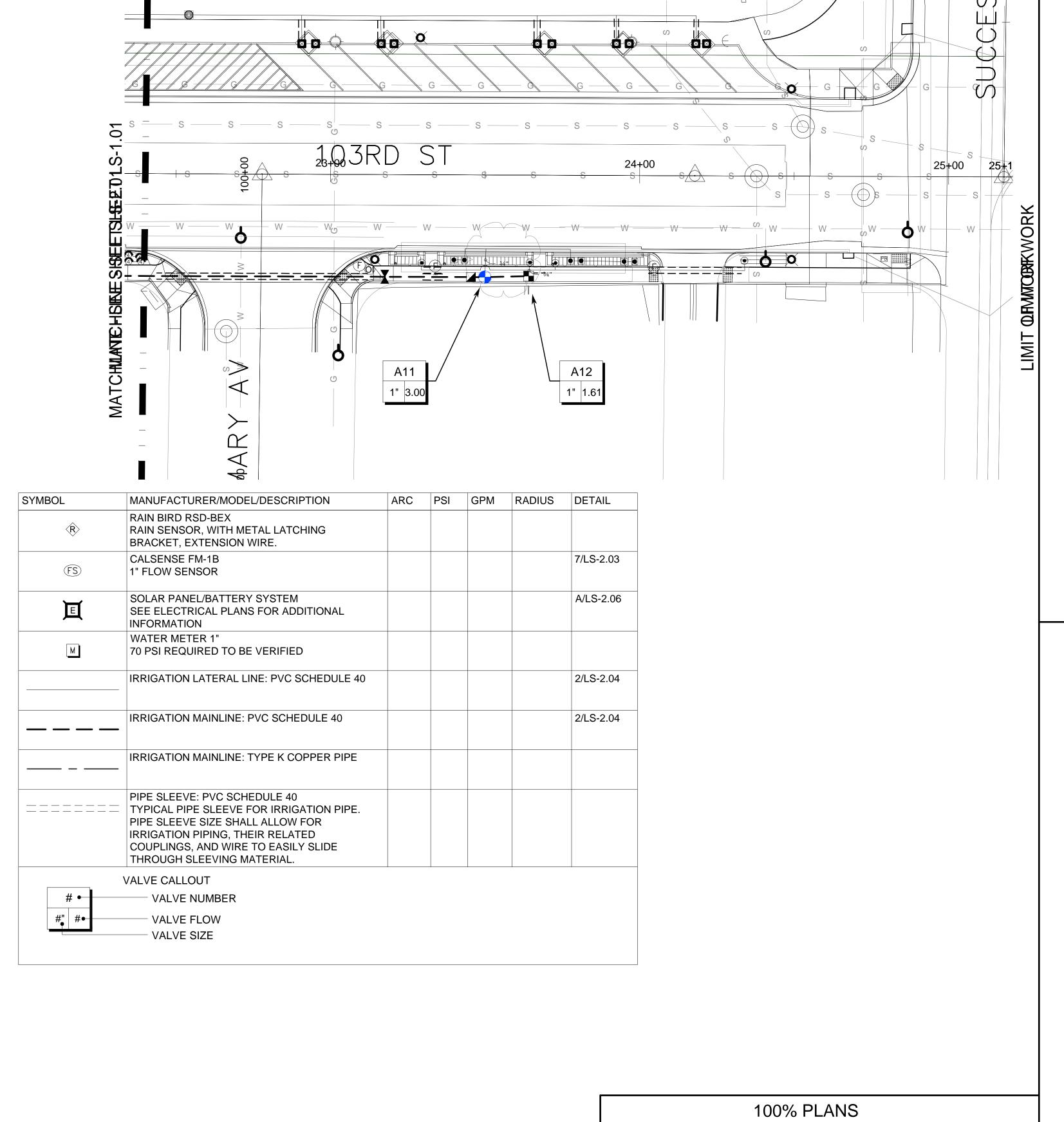




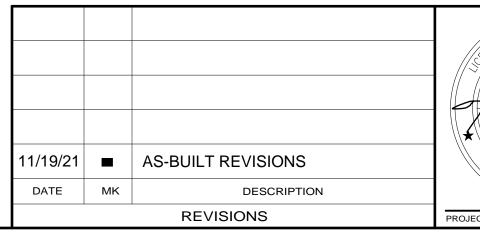


YMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL	ALTERNATE MANUFACTURER/MODEL
4	RAIN BIRD 1812-SAM-PRS-U SQ SERIES SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	180	30	0.20	1.2x2.4	1/LS-2.03	HUNTER PROS-12 WITH 4A NOZZLE TORO 570ZPRX-12 WITH O-T-4X15-H NOZZLE
4	RAIN BIRD 1812-SAM-PRS-U SQ SERIES SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	90	30	0.12	4'x4'	1/LS-2.03	HUNTER PROS-12 WITH 4A NOZZLE TORO 570ZPRX-12 WITH O-T-4X15-H NOZZLE
8	RAIN BIRD 1812-SAM-PRS-U HE-VAN SERIES SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	30		8'	1/LS-2.03	HUNTER PROS-12 WITH 8A NOZZLE TORO 570ZPRX-12 WITH 8-H NOZZLE
(10)	RAIN BIRD 1812-SAM-PRS-U HE-VAN SERIES SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	30	0.05	10'	1/LS-2.03	HUNTER PROS-12 WITH 10A NOZZLE TORO 570ZPRX-12 WITH 10-H NOZZLE
	RAIN BIRD RWS-B-C ROOT WATERING SYSTEM WITH 4.0" DIAMETER X 36.0" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE, AND CHECK VALVE. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	360	20	0.25	3'		HUNTER RZWS-36
YMBOL The state of the state o	MANUFACTURER/MODEL/DESCRIPTION RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM. PIPE TRANSITION POINT BELOW GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO					DETAIL 1/LS-2.05	MANUFACTURER/MODEL/DESCRIPTION HUNTER ICZ-101-LF TORO DZK-TPV-1-MF
Ę.	DRIP TUBING NETAFIM TL050MFV-1 AUTOMATIC FLUSH VALVE, 1/2" MALE PIPE THREAD.					4/LS-2.04	HUNTER AVF-B TORO T-FCH-H-FIPT
	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED. AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-04-12 XFS-CV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.3 PSI CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. GREAT FOR ELEVATION CHANGE. SPECIFY XF INSERT FITTINGS.					3/LS-2.03	HUNTER ECO-ID HUNTER PLD-04-12-CV TORO RGP-212-01
YMBOL	MANUFACTURER/MODEL/DESCRIPTION RAIN BIRD PESB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.					DETAIL 5/LS-2.03	MANUFACTURER/MODEL/DESCRIPTION HUNTER ICV G SERIES TORO P-220 SERIES
	RAIN BIRD 33-DLRC 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, DOUBLE TRACK KEY LUG, AND 2-PIECE BODY.					6/LS-2.03	HUNTER HQ-33 DLRC TORO 075-SLVLC
X	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"					2/LS-2.03	MATCO-NORCA 513T LASCO SLO-CLOSE TUBV-SC
M	GRISWOLD 2160KE 1-1/2" 1-1/2" SOLENOID, NORMALLY OPEN MASTER VALVE. EPOXY COATING. CAST IRON AND BRONZE MATERIAL. NPT END CONNECTION.					7/LS-2.03	SUPERIOR 3100 SERIES RAIN BIRD EFB-CP
BF	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER W/ GUARD SHACK MODEL CGS-4 ENCLOSURE					4/LS-2.03	ZURN 375 WATTS LF909
С	CALSENSE CONTROLLER CS3-16-S1/CS3-GR/GR-STUBBY/COMM-5YR/FM-1B CONTACT MARK HUNTZINGER (760) 580-1827					5/LS-2.04	WEATHER TRAK ET PRO3 RAIN BIRD ESP8LXME-LXMM-LXMMPED

SCALE: 1"=20'







11/20/2018 PROJECT LANDSCAPE ARCHITECT

103rd STREET GREEN IMPROVEMENT **PROJECT** PROJECT ID: WMD0000110

PCA J54445

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

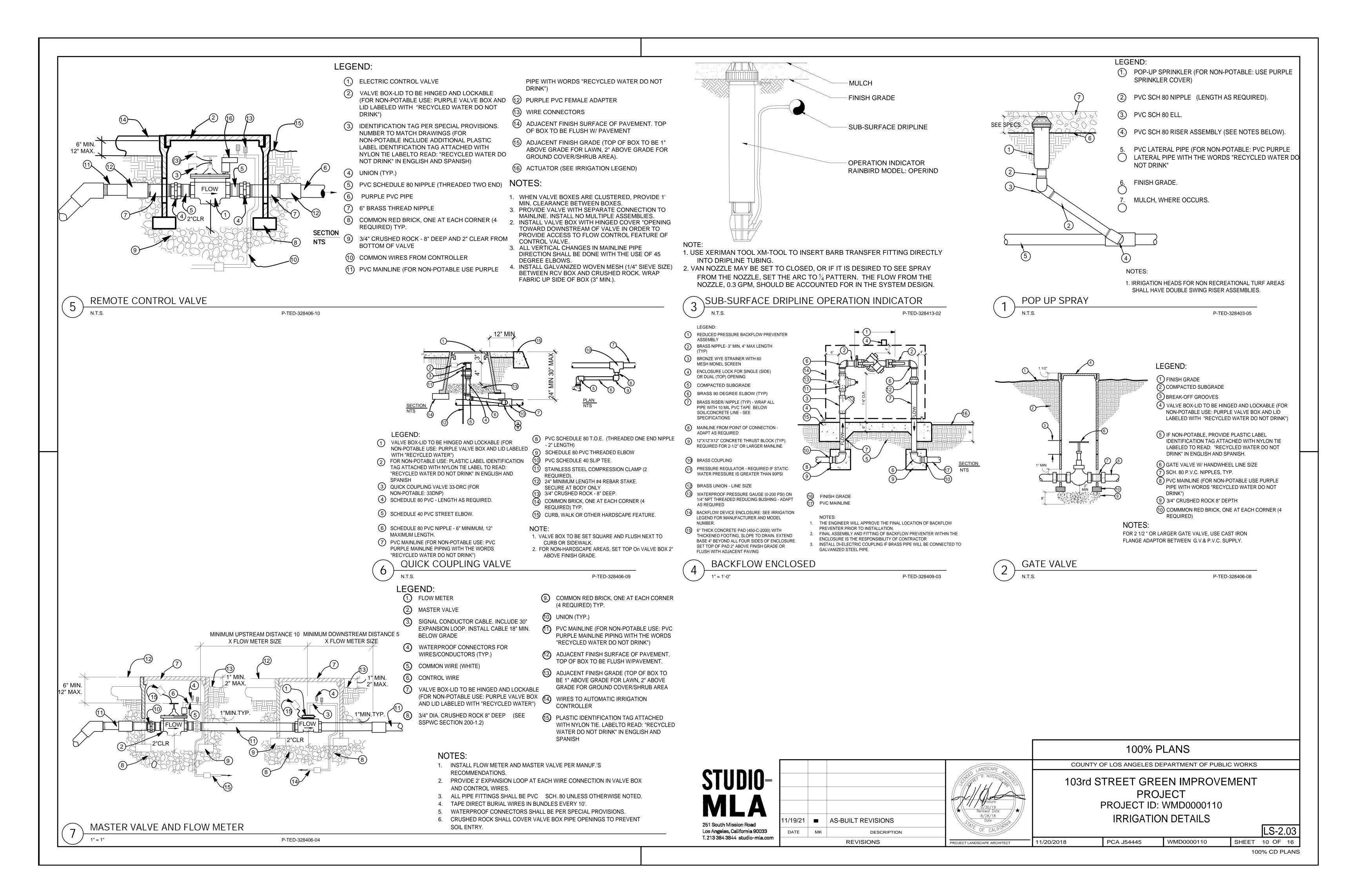
IRRIGATION PLAN AND LEGEND

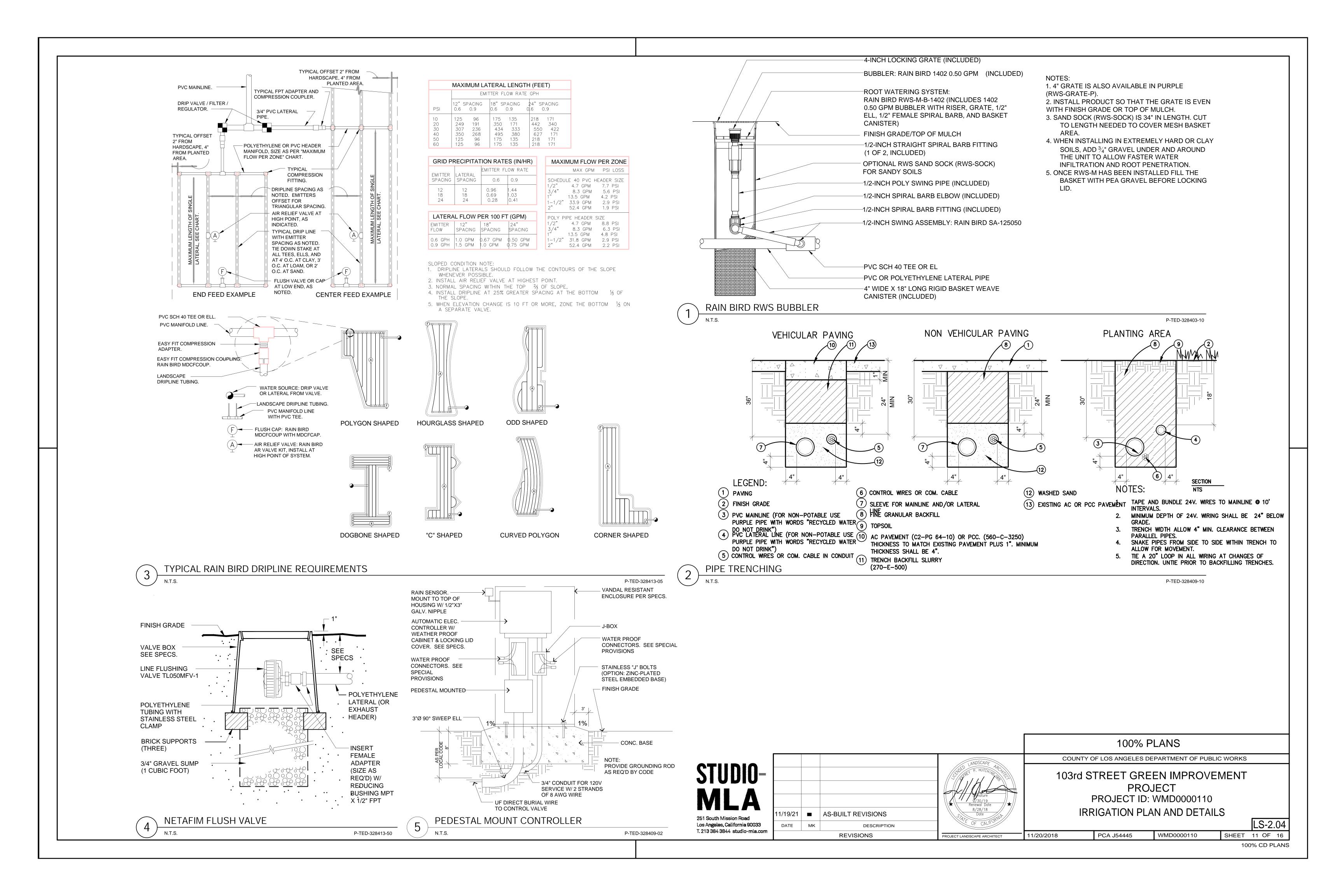
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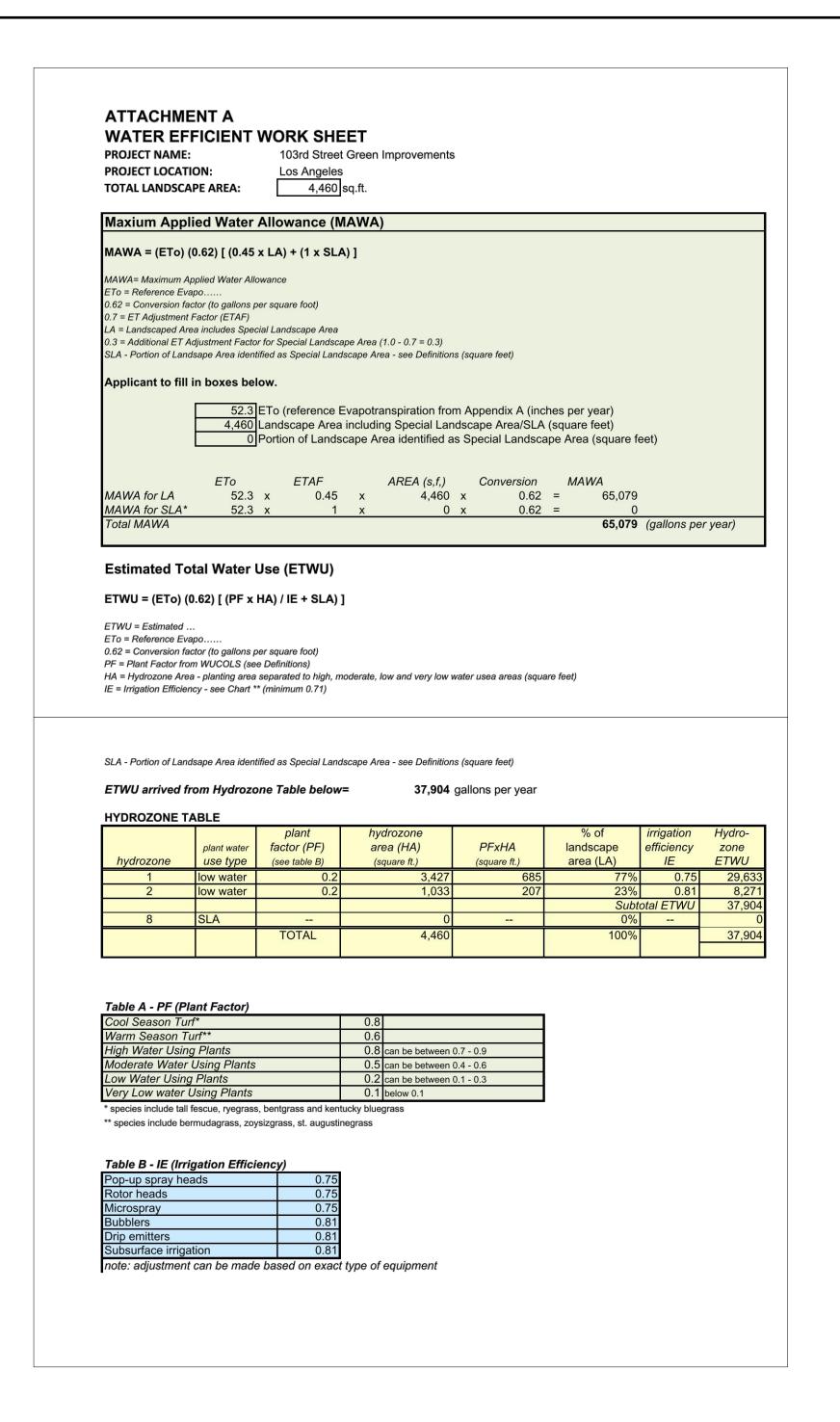
100% CD PLANS

LS-2.02

SHEET 9 OF 16







ATTATCHMENT B.1

PROJECT NAME:

PROJECT LOCATION:

TOTAL LANDSCAPE AREA:

IRRIGATION SCHEDULE (Peak Summer Schedule)

IRRIGATION SCHEDULE FOR SUMMER (JULY):

103rd Street Green Improvements

april may june july aug. sept. oct. nov. dec. **annual**

rate

tree 15.32

19 tree 15.32 0.2 7 8 266 tree 0.64 0.2 14 8

Total Runtime per day 1.4 Hours

runtime cycles

Total Montly ETWU 3871.

Los Angeles

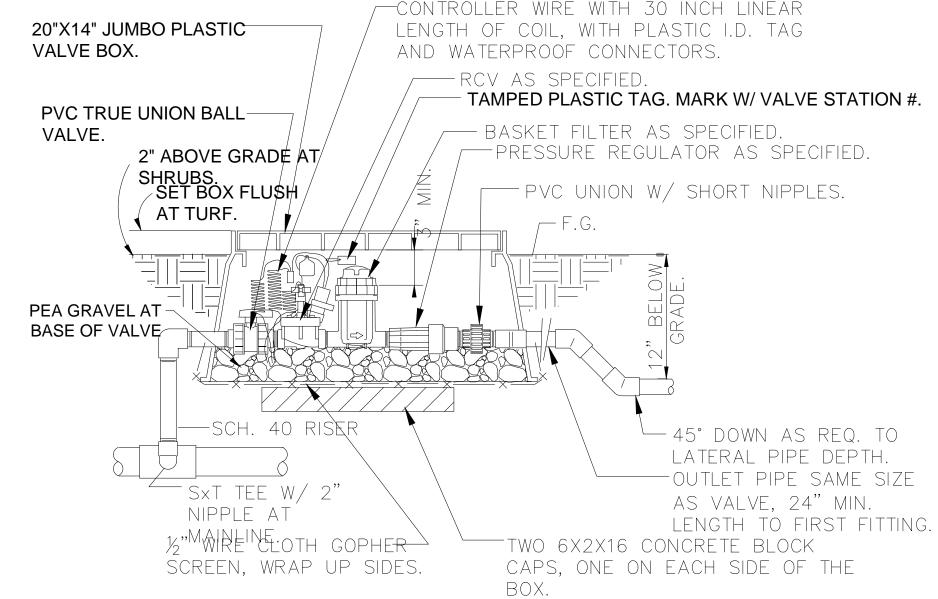
4,460 sq.ft.

0.75 spray 0.81 subsurface

0.81 bubbler

CRITICAL ANALYSIS

2018-05-11 16:37 Generated: P.O.C. NUMBER: 02 Water Source Information: 70 psi required to be verified FLOW AVAILABLE Water Meter Size: Flow Available: 37.50 gpm PRESSURE AVAILABLE Static Pressure at POC: 0.00 psi Elevation Change: 5.00 ft 1 1/2" Service Line Size: 20.00 ft Length of Service Line: Pressure Available: 0.00 psi DESIGN ANALYSIS Maximum Station Flow: 13.96 gpm Flow Available at POC: 37.50 gpm Residual Flow Available: 23.54 gpm **Critical Station:** 8A 30.00 psi Design Pressure: 4.57 psi Friction Loss: Fittings Loss: 0.46 psi **Elevation Loss:** 0.00 psi 2.24 psi Loss through Valve: Pressure Req. at Critical Station: 37.25 psi Loss for Fittings: 1.17 psi 11.69 psi Loss for Main Line: Loss for POC to Valve Elevation: 0.00 psi Loss for Backflow: 11.30 psi Loss for Master Valve: 1.30 psi Loss for Water Meter: 1.10 psi Critical Station Pressure at POC: 63.81 psi Pressure Available: 0.00 psi Residual Pressure Available: -63.81 psi



1" DRIP VALVE W/BASKET FILTER 1 1/2" = 1'-0" P-TED-328413-15

TRENCHING OPTION: CONTRAC

IRRIGATION INSTALLATION NOTES:

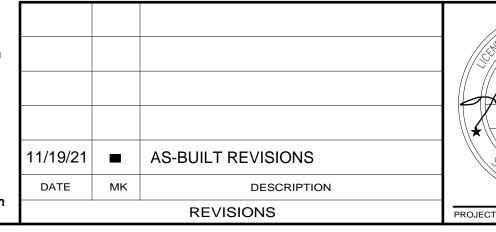
- 1. TRENCHING OPTION: CONTRACTOR HAS AS AN OPTION TO INSTALL LATERAL IRRIGATION LINES UTILIZING A TRENCHLESS TECHNIQUE (PULLED IN) WHERE POSSIBLE.
- 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING TREES AND OTHER PLANTS IN THE AREAS OF WORK PRIOR TO START OF CONSTRUCTION.
- 4. INSTALL PVC SCHEDULE 40 CONDUIT UNDER EXISTING PAVING WHEREVER NECESSARY TO "RUN" CONTROL WIRES. INSTALL CONTROL WIRES A MINIMUM 24" BELOW FINISH GRADE AND 36" UNDER VEHICULAR ROADWAY.
- 5. ALL VERTICAL CHANGES IN MAINLINE PIPE DIRECTION SHALL BE DONE WITH THE USE OF 45 DEGREE ELBOWS.
- 6. LATERAL SUPPLY LINES FROM THE VALVE TO THE FIRST HEAD SHALL BE ONE SIZE LARGER THAN THE VALVE, UNLESS OTHERWISE NOTED
- 7. THE AGENCY WILL APPLY FOR AND PAY ALL FEES FOR THE PROPOSED WATER METER(S). SEE PLANS FOR AVAILABLE WATER PRESSURE AT THE P.O.C. AND WATER PURVEYOR'S INFORMATION. NOTIFY THE ENGINEER IF THERE IS A DISCREPANCY WITH CONTRACTORS FINDING AND WHAT IS INDICATED ON THE PLANS.
- 8. REPAIR ALL EXISTING MATERIALS DAMAGED OR EXPOSED BY NEW IRRIGATION INSTALLATION WORK OR BY ANY OTHER CONSTRUCTION WORK, MATCH EXISTING ADJACENT WORK IN TEXTURE AND COLOR.
- 9. ALL QUICK COUPLING VALVES SHALL BE INSTALLED IN LOCK LID VALVE BOXES. MARK ALL BOXES Q.C.V. WITH EPOXY PAINT.
- 10. IRRIGATION HEADS SHALL BE PROPERLY POSITIONED TO ALLOW STANDARD OPERATION, RETRACTION, AND SHALL BE ADJUSTED SO THERE IS NO OVER-SPRAYING ONTO ADJACENT SIDEWALKS, PAVEMENT(S), AND ROADWAYS.
- 11. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO ENSURE THAT ALL COMPONENTS OF THE IRRIGATION SYSTEM PERFORM PROPERLY DURING CONSTRUCTION AND MAINTENANCE PERIODS.
- 12. CONTRACTOR SHALL PROVIDE AND INSTALL FLOW METER(S) AND MASTER CONTROL VALVE(S) FOR ALL PROPOSED AUTOMATIC IRRIGATION CONTROL SYSTEM(S) AS SHOWN ON PLANS. INSTALLATION SHALL BE PER DETAILS AND MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO PROGRAM THE AUTOMATIC IRRIGATION CONTROLLER(S) SO THE SYSTEM SHALL BE FULLY OPERATION TO DETECT MAIN AND LATERAL LINE BREAKAGE.
- 13. ADJUST LOCATION OF IRRIGATION HEADS AS NECESSARY TO MINIMIZE SPRAY INTERFERENCE AGAINST OBSTRUCTIONS (CONCRETE WALLS, TELEPHONE AND POWER POLES, TREES, ETC.).
- 14. ADJUST ALL ADJUSTABLE ARC NOZZLES AS NECESSARY TO AVOID UNDER-SPRAY OF PLANTING AREAS AND OVER-SPRAY OF WALLS AND SIDEWALKS.
- 15. FOLLOWING IRRIGATION HEAD INSTALLATION, ADJUST RADIUS THROW TO CONFORM TO SITE CONDITIONS.
- 16. INSTALL NEW ELECTRIC IRRIGATION CONTROLLERS IN STAINLESS STEEL IRRIGATION CONTROLLER ENCLOSURE WHERE SHOWN ON PLAN(S). MAKE ELECTRICAL CONNECTIONS AS NECESSARY TO PROVIDE AN OPERATIONAL ELECTRICAL AUTOMATIC IRRIGATION SYSTEMS. (SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.)
- 17. CONTRACTOR SHALL PROVIDE AND PAY FOR BACKFLOW DEVICE INSPECTION. INSPECTION TO BE PERFORMED BY AN INSPECTOR CERTIFIED BY LOS ANGELES COUNTY DEPARTMENT OF HEALTH SERVICES (LACDHS). THE INSPECTION CERTIFICATION SHALL BE COMPLETED AND SUBMITTED TO THE WATER PURVEYOR, AND A COPY SHALL BE SUBMITTED TO THE ENGINEER AND LACDHS.
- 18. CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS AND INSTALL ADDITIONAL IN-LINE CHECK VALVES WHEREVER NECESSARY TO PREVENT LOW-HEAD DRAINAGE.
- 19. ALL TREES ARE TO BE WATERED BY A SEPARATE BUBBLER SYSTEM. SEE IRRIGATION DETAIL FOR BUBBLER INSTALLATION.
- 20. INSTALL X-OVER SLEEVES (CLASS 315 PVC UNLESS NOTED OTHERWISE) WHERE SHOWN ON THE PLANS, AT INTERSECTIONS, AND WHEREVER PIPE CROSSES UNDER PAVEMENTS. ALL SLEEVES SHALL EXTEND 6" INTO PLANTING AREAS AT BOTH ENDS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SLEEVES PRIOR TO PAVING/PATH/ETC. BEING INSTALLED. NOT ALL SLEEVES MAY BE INDICATED ON PLANS.
- 21. "BORE" UNDER EXISTING PAVING WHEREVER POSSIBLE. SAWCUT EXISTING PAVING WHERE NECESSARY AS APPROVED TO INSTALL PIPING/SLEEVE. FOR TRENCH REPAIR INFORMATION (INSERT TRENCHING REPAIR DETAIL IN DETAIL SHEET), REFER TO DETAIL **/SHEET **
- 26. CONTRACTOR SHALL ADJUST EXACT LOCATIONS OF IRRIGATION PIPES AND TUBINGS TO AVOID CATCH BASINS AND OTHER SITE AMENITIES.
- 27. ALL HEADS WITH CHECK VALVES AND PRESSURE REGULATION DEVICES IN POP-UP STEM SHALL BE CONNECTED THOUGH BOTTOM INLET AND NOT SIDE INLET.
- 28. DRIP IRRIGATION SYSTEM:
 - A)FLUSH VALVES TO BE INSTALLED, WHERE INDICATED ON PLANS OR AT BOTH ENDS OF A DRIP SYSTEM. INSTALL VALVES IN VALVE BOXES AND LOCATE THEM IN PLANTING AREAS.

11/20/2018

B)DRIPLINE AND FLEXIBLE PVC SHALL NOT BE BENT BEYOND A RADIUS OF 3 FEET. CONTRACTOR SHALL USE ANGLE FITTINGS FOR ANY CHANGES TIGHTER THAN 3 FEET.

STUDIOMILA

251 South Mission Road
Los Angeles, California 90033
T. 213 384 3844 studio-mla.com





103rd STREET GREEN IMPROVEMENT
PROJECT
PROJECT ID: WMD0000110
IRRIGATION DETAILS AND

PCA J54445

100% PLANS

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

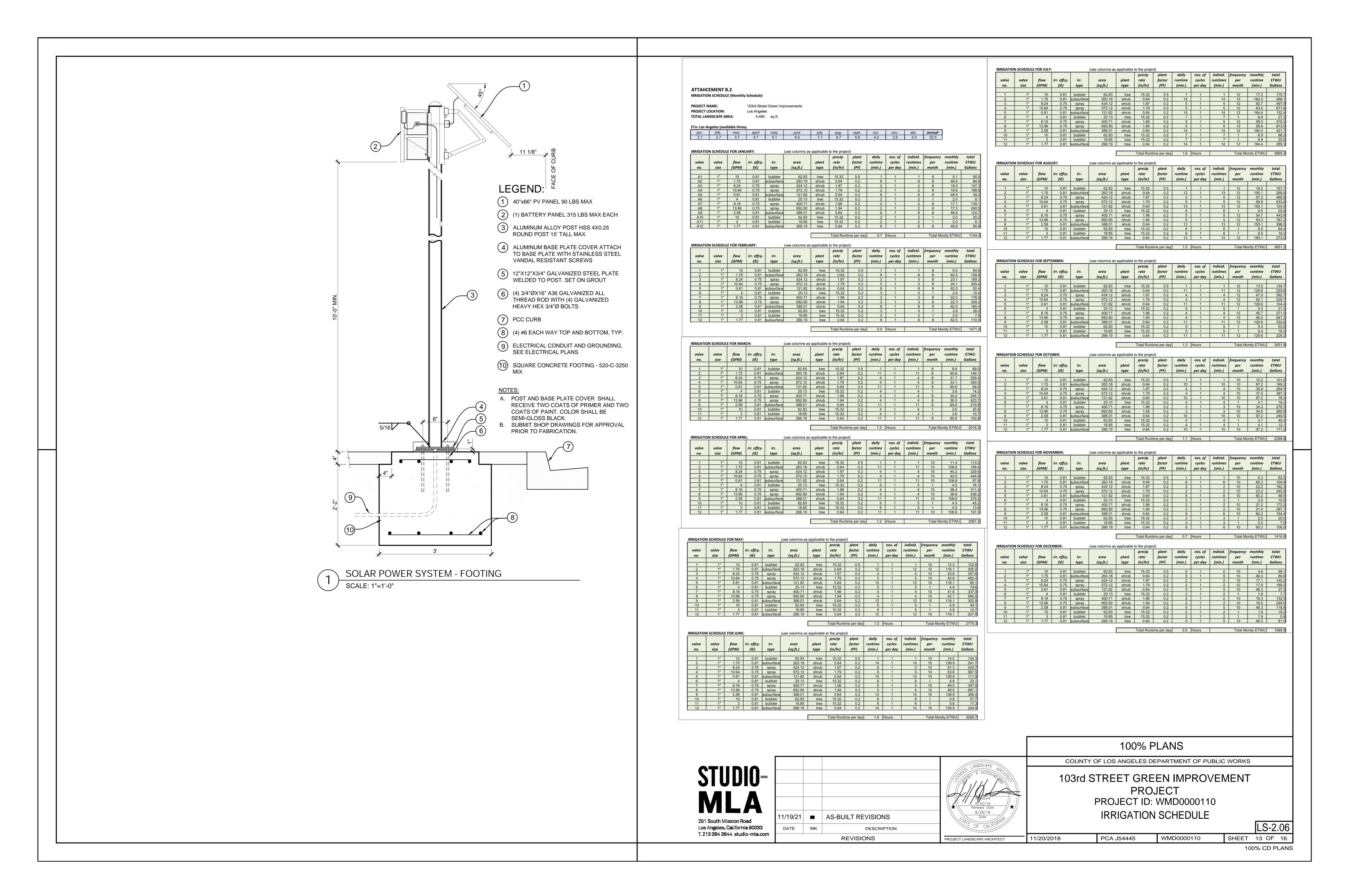
RIGATION DETAILS AND NOTES

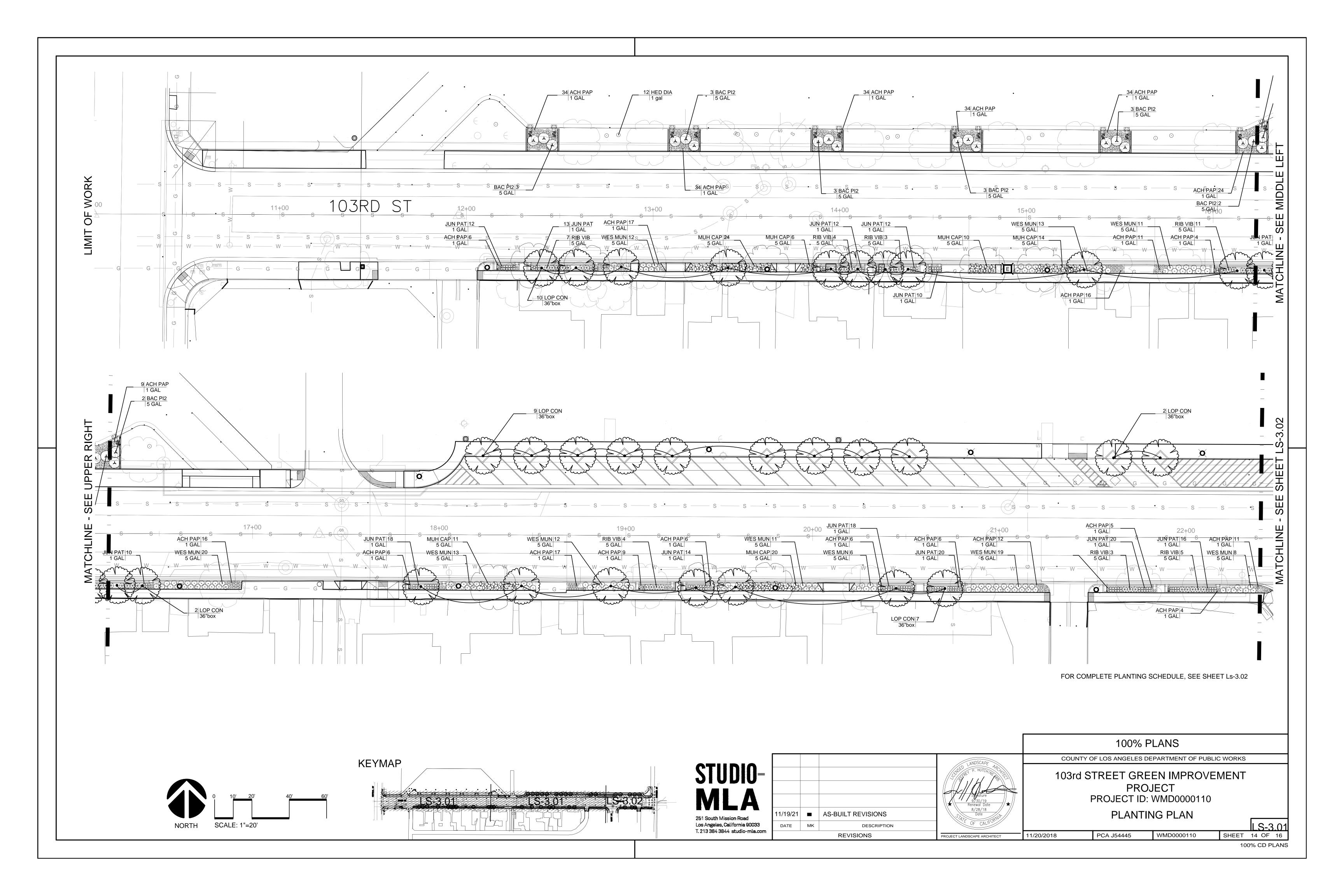
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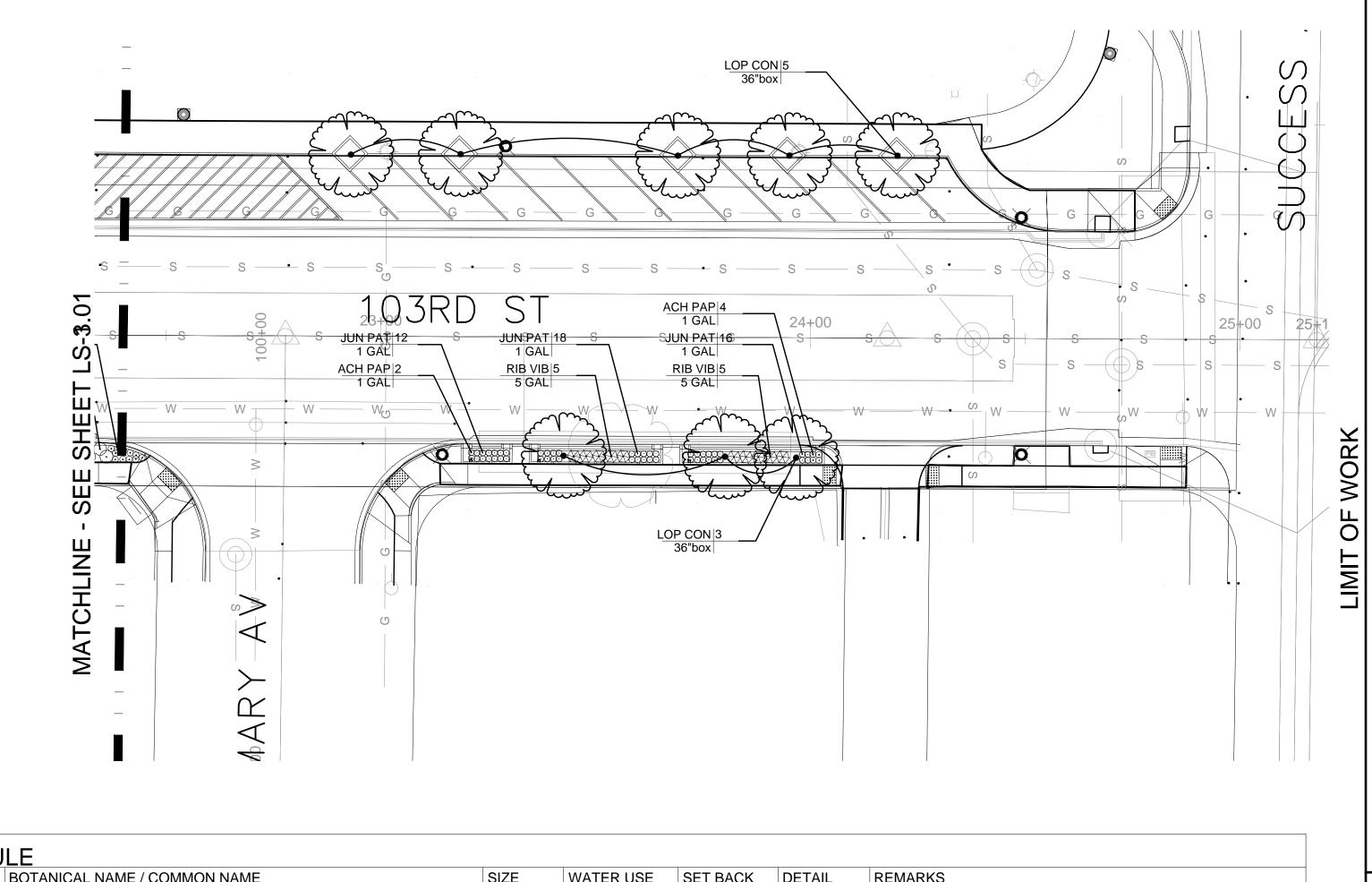
100% CD PLANS

SHEET 12 OF 16

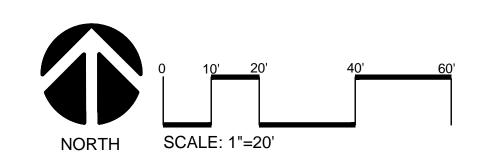
LS-2.05

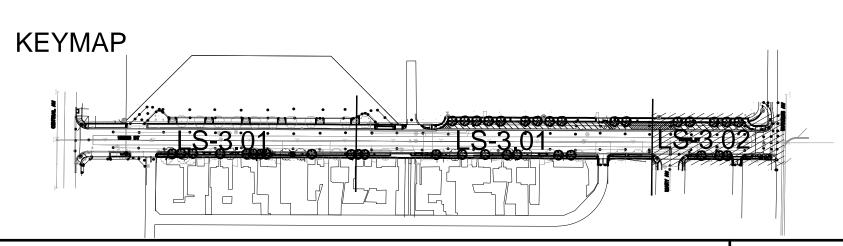






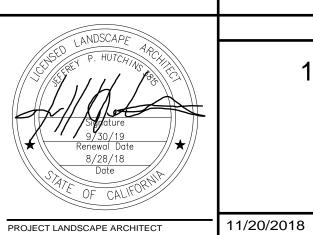
PLANT	SCHEDU	JLE					
TREES	CODE	BOTANICAL NAME / COMMON NAME	SIZE	WATER USE	SET BACK	DETAIL	REMARKS
	LOP CON	LOPHOSTEMON CONFERTUS / BRISBANE BOX	36"BOX	MODERATE	3`	2/LS-3.03	
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	WATER USE	SET BACK	DETAIL	REMARKS
\odot	ACH PAP	ACHILLEA MILLEFOLIUM `PAPRIKA` / RED YARROW	1 GAL	LOW	1`	1/LS-3.03	
A	BAC PI2	BACCHARIS PILULARIS `PIGEON POINT` / COYOTE BRUSH	5 GAL	LOW	2`	1/LS-3.03	
()	HED DIA	HEDERA HELIX / ENGLISH IVY	1 GAL	MODERATE	2`	1/LS-3.03	CONTRACTOR SHALL PROVIDE ON AS NEEDED BASIS TO REPLACE DAMAGED ENGLISH IVY DURING CONSTRUCTION.
\odot	JUN PAT	JUNCUS PATENS / CALIFORNIA GRAY RUSH	1 GAL	LOW	1`	1/LS-3.03	
\(\)	MUH CAP	MUHLENBERGIA CAPILLARIS / PINK MUHLY	5 GAL	LOW	1.5`	1/LS-3.03	
	RIB VIB	RIBES VIBURNIFOLIUM / EVERGREEN CURRANT	5 GAL	LOW	1.5`	1/LS-3.03	
\odot	WES MUN	WESTRINGIA FRUTICOSA `MUNDI` TM / LOW COAST ROSEMARY	5 GAL	LOW	1.5`	1/LS-3.03	







-				
	11/19/21	•	AS-BUILT REVISIONS	
	DATE	MK	DESCRIPTION	
om			REVISIONS	PROJI



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS 103rd STREET GREEN IMPROVEMENT PROJECT PROJECT ID: WMD0000110

100% PLANS

PLANTING PLAN AND NOTES

WMD0000110

PCA J54445

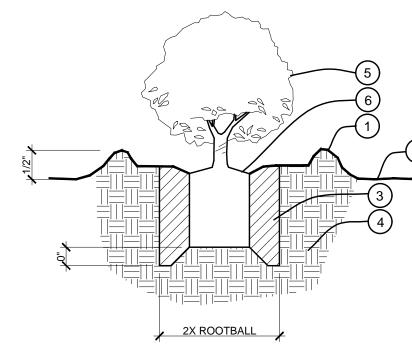
100% CD PLANS

LS-3.02

SHEET 15 OF 16

PLANTING NOTES

- 1. PLANT QUANTITIES IN LEGEND IS FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR SHALL FURNISH ALL PLANTS SHOWN ON PLANTING PLANS.
- 2. ALL TREES ARE TO BE PLANTED MIN. 20' FROM EXISTING POWER POLES (WHERE APPLICABLE).
- 3. CONTRACTOR SHALL PROVIDE 3" DEEP LAYER OF MEDIUM TO FINE TEXTURED (3/4" TO 2") GROUND WOOD BY-PRODUCT OR SHREDDED BARK MULCH TO ALL PLANTED AREAS EXCEPT RETENTION PLANTERS. COLOR OF MULCH SHALL BE DARK.
- 4. CONTRACTOR SHALL INSTALL AN EDGING MATERIAL SEPARATING PLANTING AND DECOMPOSED GRANITE AREAS.
- 5. PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY PERCEIVED DISCREPANCY BEFORE THE START OF CONSTRUCTION.
- 6. CONTRACTOR SHALL PROVIDE AND INSTALL IMPORTED TOP SOIL TO FILL IN AREAS WHERE PLANTINGS ARE PROPOSED. IMPORTED TOP SOIL SHALL BE CLASS "A" TOP SOIL. AN AGRONOMICAL SOIL'S REPORT SHALL BE SUBMITTED PER SECTION L, LANDSCAPE 1.02-2 OF SPECIAL PROVISIONS, REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE DELIVERY OF THE SOIL ON SITE.
- 7. CONTRACTOR SHALL CENTER ALL TREES IN THE PLANTING AREAS (BETWEEN CURB AND HARDSCAPE)
- 8. REFER TO SHEETS LS-1.01, L-1.02, AND LS-1.03 OF CONSTRUCTION PLAN FOR EXACT LOCATION OF EXISTING PLANT MATERIALS TO BE SAVED IN PLACE.
- 9. CONTRACTOR SHALL PRUNE AND REMOVE DEAD BRANCHES FROM ALL EXISTING TREES AND SHRUBS TO REMAIN. FOR ALL EXISTING TREES 12 FEET AND HIGHER, REMOVE ALL BRANCHES 7 FEET ABOVE ADJACENT GROUND (MEASURED AT UPPER SIDE OF SLOPE).
- 10. ALL SHRUBS ARE TO BE PLANTED AT A MINIMUM SETBACK AS SHOWN ON PLANT LEGEND.
- 11. ANY SOIL PREPARATION AND PLANTING WITHIN THE DRIP LINE OF THE EXISTING TREES SHALL BE DONE BY HAND.
- 12. DO NOT INSTALL MULCH IN BIO SWALE OR FLOW THROUGH PLANTERS.



LEGEND:

1) FORM 3" HIGH BERM AROUND BASIN

(2) FINISH GRADE

(3) BACKFILL MIX. REFER TO SPECIFICATIONS

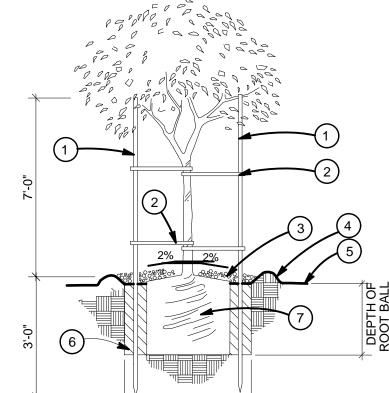
(4) NATIVE SOIL

(5) SHRUB/GROUND COVER

6 SET TOP OF ROOT BALL 1" ABOVE FINISH

SHRUB PLANTING

P-TED-329333-05



- LEGEND:
- (2) TWO 10'-0" X 2" DIA. PRESSURE TREATED LODGEPOLE TREE STAKES (REFER TO SPECIAL PROVISIONS).
- 2 FASTEN TREE TO STAKES W/ "WONDER TREE TIES" OR APPROVED EQUAL. TWO (2) AT EACH
- 3 BACKFILL WATER BASIN W/ 3" OF UNCOMPACTED MULCH. KEEP MULCH AWAY FROM CROWN.
- FORM 3" HIGH BERM AROUND BASIN. (3' DIA. FOR 15 GAL TREE, 4' DIA FOR 24" BOX TREE, AND 6' FOR 36" BOX TREE) DO NOT FORM BERM IF 5) FINISH GRADE
- 6 BACKFILL MIX. REFER TO SPECIAL PROVISIONS.
- (7) ROOT BALL. SET TOP OF ROOT BALL
 1" ABOVE FINISH GRADE
- AFTER TREE IS PLANTED, PRUNE AND SHAPE AS DIRECTED AND APPROVED BY THE AGENCY'S LANDSCAPE ARCHITECT.

TREE PLANTING

11/20/2018

P-TED-329343-04

Los Angeles, California 90033 T. 213 384 3844 studio-mla.com 11/19/21 ■ AS-BUILT REVISIONS DATE MK DESCRIPTION REVISIONS

PROJECT LANDSCAPE ARCHITECT

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS 103rd STREET GREEN IMPROVEMENT **PROJECT**

100% PLANS

PROJECT ID: WMD0000110 PLANTING DETAILS

LS-3.03 PCA J54445 WMD0000110 SHEET 16 OF 16

100% CD PLANS

APPLICABLE CODES AND STANDARDS:

ALL CONSTRUCTION SHALL COMPLY WITH LATEST APPROVED CODES LISTED BELOW AND ALL APPLICABLE CODES, STATUTES, REGULATIONS, ORDINANCES, ETC. CURRENTLY IN FORCE AND THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING

2017 LOS ANGELES COUNTY ELECTRICAL CODE BASED ON THE 2016 CEC (CALIFORNIA ELECTRICAL CODE) AND 2014 NEC (NATIONAL ELECTRICAL CODE).

SPPWC STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

SHEET INDEX

DESCRIPTION

SHT. No. PLAN E ELECTRICAL PLANS

E1.01 GENERAL NOTES, SYMBOLS, SHEET INDEX, SITE POWER PLAN

E1.02 DETAILS

GENERAL NOTES:

- A. WORK UNDER THIS CONTRACT SHALL INCLUDE, BUT NOT TO BE LIMITED TO, FURNISHING, INSTALLING AND CONNECTION OF ALL ELECTRICAL EQUIPMENT AND TESTING OF ALL SYSTEMS AND SUB-SYSTEMS WITHIN THE SCOPE OF WORK. BEFORE ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE, IN THE PRESENCE OF THE ENGINEER, THAT ALL PORTIONS OF THE ELECTRICAL WORK ARE OPERATING PROPERLY PER MANUFACTURER'S SPECIFICATION.
- B. COORDINATE ALL WORK WITH PLAN LS.
- C. ALL ITEMS ARE NEW.
- D. CONDUCTORS: ALL SHALL BE COPPER, RATED 600V, INSULATION TYPE XHHW OR THWN-2, 90°.
- E. CONDUITS: EXPOSED OUTDOOR CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS), EXTERIOR UNDERGROUND CONDUITS SHALL PVC SCHD80 (STRAIGHT RUNS) AND PVC SCHD80 (SWEEPS). SEE ELECTRICAL SITE PLAN FOR CONDUIT SIZE. ALL CONDUIT RUNS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER

ELECTRICAL SYMBOLS LIST:

SOLAR POWER ON STEEL POLE

———— UNDERGROUND CONDUIT

CALL OUT NOTE

———— CAPPED CONDUIT

IRRIGATION CONTROLLER PEDESTAL PER PLAN LS

CONDUIT TURNED DOWN

CONDUIT TURNED UP

ABBREVIATIONS LIST:

AFF ABOVE FINISH FLOOR AFG ABOVE FINISH GRADE

AWG AMERICAN WIRE GAUGE

A AMPERE AIC AMPERE INTERRUPTING CAPACITY (SYMMETRICAL)

AF AMPERE FRAME AT AMPERE TRIP

BKR BREAKER CCTV CLOSED-CIRCUIT TELEVISION

CKT CIRCUIT

CB CIRCUIT BREAKER

C CONDUIT CO CONDUIT ONLY

C.W.P. COLD WATER PIPE DIST. BD. DISTRIBUTION BOARD

DIA DIAMETER

DS DUCT SMOKE DETECTOR E.G. EQUIPMENT GROUND

EMT ELECTRICAL METALLIC TUBING (E) EXISTING

FACP FIRE ALARM CONTROL PANEL FLA FULL LOAD AMPS

G GROUND

G.D. GARBAGE DISPOSAL GFI GROUND FAULT INTERRUPTER

HH HAND HOLE I.G. ISOLATED GROUND

JB JUNCTION BOX

KVA KILO-VOLT AMPERES KW KILO-WATT

KWH KILO-WATT-HOUR LADWP L.A. DEPT OF WATER & POWER

LCL LONG CONTINUOUS LOAD LCP LIGHTING CONTROL PANEL

L LENGTH

LTG LIGHTING

MCR MAIN COMPUTER ROOM MCB MAIN CIRCUIT BREAKER

MLO MAIN LUGS ONLY

MCP MOTOR CIRCUIT PROTECTOR MTD MOUNTED

(N) NEW

N.I.C. NOT IN CONTRACT

ø PHASE P POLE

PA PUBLIC ADDRESS

PNL PANEL

PVC POLY-VINYL CHLORIDE RGS RIGID GALVANIZED STEEL

S.C.E. SOUTHERN CALIFORNIA EDISON SCHD SCHEDULE

SHT SHEET S/L STREET LIGHT

SWBD SWITCHBOARD

TYP TYPICAL

U.N.O. UNLESS NOTED OTHERWISE

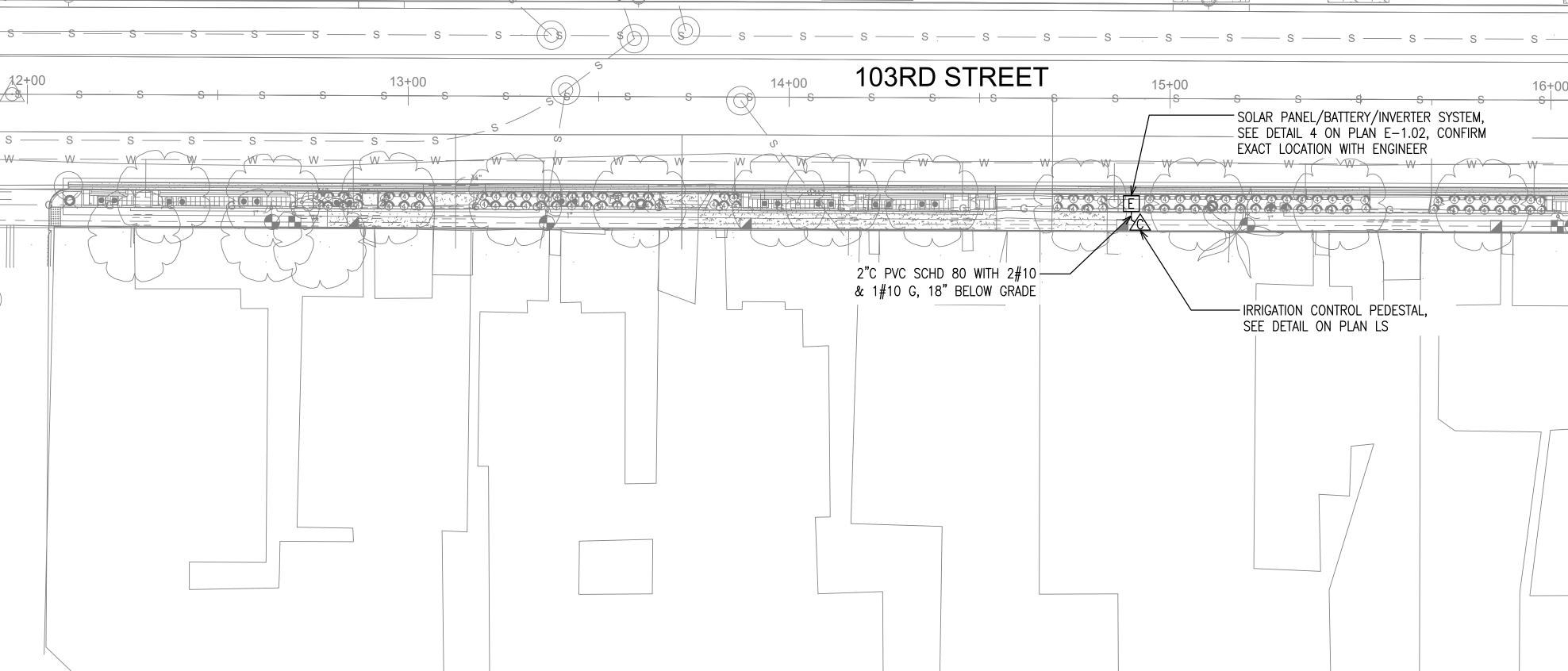
V VOLTS VA VOLT AMPERES

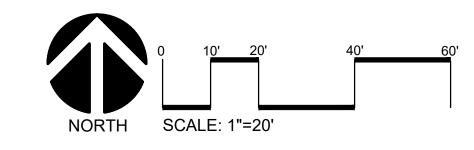
VD VOLTAGE DROP WP WEATHERPROOF

W WIRE

XFR TRANSFER

XFMR TRANSFORMER





PLAN E

KEYMAP

09/15/21 ■ AS BUILT REVISIONS DATE MK DESCRIPTION REVISIONS

E15357 alberts ZM COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

103rd ST. GREEN IMPROVEMENTS

GENERAL NOTES, SYMBOLS, SHEET INDEX, DETAILS, SITE POWER PLAN

E-1.01 9/15/2021 **DATE 9/15/2021** PCA EF20315002 WMD0000110 SHEET 1 OF 2

