

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC 2022) AND THE 2022 CALIFORNIA PLUMBING CODE (CPC 2022), INCLUDING REFERENCE STANDARDS, ADDENDA, APPENDICES, AND 2023 CITY OF LOS ANGELES CODE AMENDMENTS (LABC 2023).
- APPROVAL OF THESE PLANS BY THE AUTHORITY HAVING JURISDICTION (AHJ) DOES NOT GUARANTEE COMPLIANCE WITH ALL BUILDING REGULATIONS, NOR DOES IT JUSTIFY VIOLATION OF ANY LAWS, ORDINANCES, REGULATIONS, OR POLICIES BY THE OWNER OR CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN ACCORDANCE WITH THE GOVERNING REGULATIONS AND IS ENCOURAGED TO SEEK CLARIFICATION WHERE NECESSARY FROM THE INSPECTOR OR ENGINEER PRIOR TO COMPLETING ANY WORK.
- WHERE NO APPLICABLE PROJECT SPECIFICATION EXISTS, OR WHERE DIRECTLY REFERENCED BY THE PROJECT DRAWINGS OR SPECIFICATIONS, WORK SHOWN HEREIN SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), 2021 EDITION, AS MODIFIED BY THE CITY OF LOS ANGELES "BROWN BOOK," EIGHTH EDITION.
- THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS ARE INTENDED TO WORK WITH AND BE COMPLEMENTARY TO EACH OTHER, AND BOTH SHALL BE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. WHERE A DISCREPANCY IS FOUND, PROJECT DRAWINGS SHALL TAKE PRECEDENCE OVER PROJECT SPECIFICATIONS, AND PROJECT SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD SPECIFICATIONS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. IN THE EVENT THAT CERTAIN DETAILS ARE NOT FULLY SHOWN OR NOTED ON DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED, SUBJECT TO THE ENGINEER'S APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF ALL PROJECT DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT CANNOT BE RESOLVED THROUGH THE CLARIFICATIONS IN THESE NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED PRIOR TO RECEIPT OF SUCH CLARIFICATION WILL BE DONE AT THE SOLE RISK OF THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO COMMENCING WITH THE WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE INFORMATION SHOWN ON THE DRAWINGS.
- ANY DEVIATIONS FROM THESE PLANS, EXCEPT MINOR FIELD CHANGES REQUIRED TO JOIN EXISTING CONDITIONS AND APPROVED BY THE INSPECTOR, MUST BE REVIEWED AND APPROVED BY THE ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY UNAUTHORIZED CHANGES TO THE PLANS.
- THESE DRAWINGS WERE DEVELOPED SOLELY TO SUPPORT THE CONSTRUCTION OF THIS PROJECT AND SHALL NOT BE REPRODUCED NOR USED FOR ANY OTHER PROJECT WITHOUT WRITTEN PERMISSION OF THE ENGINEER. NEITHER ARIUP NOR THE ENGINEER STAMPING THESE PLANS SHALL BE RESPONSIBLE FOR, OR LIABLE FOR, ANY UNAUTHORIZED USE OF THESE PLANS.
- ALL IMPROVEMENTS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION OF THE PROJECT. ALL TEMPORARY WORK NECESSARY TO FACILITATE THE CONSTRUCTION OF THE APPROVED DRAWINGS IS CONSIDERED PART OF THE MEANS AND METHODS OF CONSTRUCTION AND SHALL BE DESIGNED, INSTALLED, AND CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GOVERNING CODE(S) AND THE AHJ, WHERE DEEMED NECESSARY BY THE AHJ. TEMPORARY WORK SHALL BE DESIGNED BY A QUALIFIED AND LICENSED ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- ALL ELEVATIONS AND DIMENSIONS ARE IN FEET AND DECIMALS THEREOF UNLESS NOTED OTHERWISE.
- NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DIMENSIONS ON PLANS SHALL BE ASSUMED TO BE HORIZONTAL MEASUREMENTS UNLESS NOTED OTHERWISE.
- ALL CURB DIMENSIONS AND RADII ARE TO TOP OF CURB.
- DIMENSIONS TO PIPELINES ARE TO CENTERLINES UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES AND OTHER IMPROVEMENTS IN AND AROUND THE AREA OF WORK UNLESS INDICATED HEREIN TO BE REMOVED. ANY DAMAGE TO EXISTING IMPROVEMENTS, INCLUDING THOSE COMPLETED BY THE CONTRACTOR, SHALL BE REPAIRED OR REPLACED AT NO COST AND TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR'S SAFETY PLAN SHALL BE DEVELOPED AND IMPLEMENTED IN ACCORDANCE WITH ALL SAFETY ORDERS OF THE CALIFORNIA TITLE 8 REGULATIONS.
- THE CONTRACTOR SHALL BE AWARE OF OVERHEAD STRUCTURES, INCLUDING POWER AND OTHER UTILITIES IF APPLICABLE, AT ALL TIMES.
- ALL FIXTURES, EQUIPMENT, PIPING, FITTINGS, AND MATERIALS SHALL BE LISTED AND LABELED FOR THEIR INTENDED PURPOSE BY A CITY OF LOS ANGELES APPROVED LISTING AGENCY.

## SURVEY NOTES

- THE ORIGINAL SOURCE OF THE EXISTING CONDITIONS, INCLUDING EXISTING IMPROVEMENTS AND TOPOGRAPHY, IS THE DESIGN SURVEY FOR CS COMPLETED BY KPFF DATED NOVEMBER 23-30 & DECEMBER 1-9, 2022 AND MARCH 28 & APRIL 19, 2023 (KPFF PROJECT NO. 2300156).
- BOUNDARY LINES SHOWN HEREIN ARE BASED UPON CITY AND COUNTY ASSESSOR MAPS AND ENGINEER MONUMENTS WHOSE CHARACTER AND SOURCE ARE SO NOTED ON THE SURVEY.
- HORIZONTAL CONTROL: THE BASIS OF BEARINGS IS THE MEASURED BEARING NORTH 89°43'41" WEST AS SHOWN AS BEVERLY BOULEVARD, BEING SHOWN AS NORTH 89°44'25" WEST ON TRACT NO. 5939, M.B. 6243-44 AND PER PWFB 1417/2427-2428.
- VERTICAL CONTROL: THE VERTICAL DATUM IS THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). THE BENCHMARK USED IS CS CAMPUS CONTROL, CS 8, ELEV. 169.95 FEET.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING MONUMENTS THROUGHOUT THE DURATION OF CONSTRUCTION. ANY MONUMENTS DISTURBED SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE, AND A SURVEY SHALL BE CONDUCTED WITH THE COUNTY OF LOS ANGELES.
- CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.

## EARTHWORK QUANTITIES

- EARTHWORK QUANTITIES: 7800 CU. YD. NET IMPORT 12900 CU. YD. NET EXPORT
- ESTIMATED EARTHWORK QUANTITIES ARE FOR PERMITTING PURPOSES ONLY AND DO NOT ACCOUNT FOR SITE PHASING, TEMPORARY DIVERSIONS, OR EXCAVATION METHODS, WHICH ARE PER THE CONTRACTOR'S MEANS AND METHODS. THE CONTRACTOR SHALL CALCULATE THEIR OWN QUANTITIES FOR PLANNING AND COSTING PURPOSES.
- CUT AND FILL QUANTITIES ARE CALCULATED BASED ON A COMPARISON OF THE FINAL PROPOSED SUBGRADE AND THE EXISTING SUBGRADE ELEVATIONS. THE EXISTING SUBGRADE OUTSIDE OF THE EXISTING BUILDING FOOTPRINT IS ASSUMED TO BE AN AVERAGE OF 6 INCHES BELOW THE EXISTING GROUND SURFACE, ACCOUNTING FOR PAVEMENT SECTIONS AND TOPSOIL, WHICH ARE NOT SUITABLE FOR USE AS FILL MATERIAL AND ARE ASSUMED TO BE INCLUDED IN SITE CLEARING AND DEMOLITION DISPOSAL.
- EXPORT INCLUDES REMOVAL OF EXISTING CLAYEY SOILS WITHIN UPPER 24 INCHES BELOW FLOOR SLABS, PAVING, AND AT-GRADE CONCRETE WALKS PER GEOTECHNICAL RECOMMENDATIONS.
- UNLESS NOTED OTHERWISE THE ESTIMATED VOLUMES DO NOT ACCOUNT FOR SUBSTRUCTURES SUCH AS BUILDING FOUNDATIONS, TANKS, AND UTILITIES.
- THE ESTIMATED VOLUMES ARE LOOSE SOIL VOLUMES, BASED ON AN ESTIMATED SHRINKAGE FACTOR OF 5% AND A SWELL FACTOR OF 35%.

## CONCRETE

- CONCRETE SPECIFIED BY COMPRESSIVE STRENGTH SHALL CONFORM TO DIVISION Q3 CAST-IN-PLACE CONCRETE SPECIFICATIONS, AND CONCRETE SPECIFIED BY CLASS (E.G. 60-0-3250) SHALL CONFORM TO SECTION 201-1.1.2 OF THE GREENBOOK. CONCRETE SHALL BE NORMAL WEIGHT, 150 PCF, AND COMPRESSIVE STRENGTH SHALL BE AT 28 DAYS UNLESS NOTED OTHERWISE.
- ALL CONCRETE MIXES SHALL COMPLY WITH THE REQUIREMENTS OF THE PROJECT GOVERNING CODE(S). PREPARE AND SUBMIT MIX DESIGNS FOR EACH TYPE AND STRENGTH. CONCRETE MIX DESIGNS SHALL BE SEALED AND SIGNED BY A CIVIL ENGINEER REGISTERED IN CALIFORNIA.
- CLEAR COVER OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE 3" FOR ALL FACES CAST AGAINST EARTH. FOR ALL OTHER FACES THE CLEAR COVER SHALL BE 2" FOR BARS #6 AND LARGER AND 1-1/2" FOR BARS #5 AND SMALLER.
- ALL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL CONSTRUCTION DETAILS.
- EXPOSED JOINTS, SUCH AS FORMED OR SAW-CUT CONTROL JOINTS OR ISOLATIONS JOINTS, SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS. PLANNED JOINT LOCATIONS SHALL COMPLY WITH THE MAXIMUM SPACINGS PER THE PLANS AND DETAILS AND BE SHOWN CLEARLY ON THE CONTRACTOR'S SHOP DRAWINGS.
- ALL PROJECTING CORNERS OF CONCRETE ELEMENTS SHALL BE FORMED WITH 3/4" CHAMFER UNLESS NOTED OTHERWISE.
- CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED CAST IS COMPLETED.
- CONTINUOUS INSPECTION IS REQUIRED FOR CONCRETE FC OVER 2,500 PSI.

## GRADING AND DRAINAGE

- ALL EARTH MOVING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED GEOTECHNICAL REPORT BY WSP DATED MAY 30, 2023, INCLUDING ANY APPROVED SUPPLEMENTAL REPORTS OR LETTERS.
- GRADING AND EARTHWORK OPERATIONS SHALL BE OVERSEEN BY AN EXPERIENCED PERSON, WITH QUALITY ASSURANCE TESTING PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS AND THE PROJECT SPECIFICATIONS. IF THE ENGINEER OR GEOLOGIST RESPONSIBLE FOR PROFESSIONAL INSPECTION IS TERMINATED FOR ANY REASON, ALL GRADING OPERATIONS SHALL CEASE UNTIL A NEW PROFESSIONAL IS APPROVED BY THE GRADING DEPARTMENT.
- UNLESS NOTED OTHERWISE PROPOSED ELEVATIONS ARE FINISHED ELEVATIONS. THE CONTRACTOR SHALL APPROPRIATELY SUBTRACT THE THICKNESS OF THE PAVED SECTION OR LANDSCAPE SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
- PROPOSED CONTOURS ARE APPROXIMATE AND ONLY FOR THE PURPOSE OF CONVEYING GENERAL DESIGN INTENT. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS NOTED OTHERWISE.
- DURING THE RAINY SEASON, DEFINED AS THE PERIOD BETWEEN OCTOBER 1 AND APRIL 15, NO GRADING WORK SHALL COMMENCE UNTIL EROSION CONTROL MEASURES ARE IMPLEMENTED TO THE SATISFACTION OF THE GRADING INSPECTOR.
- AREAS TO BE GRADED SHALL BE CLEARED OF ALL VEGETATION INCLUDING ROOTS, FOREIGN MATERIAL, TOPSOIL, AND ROCKS GREATER THAN 3 INCHES IN DIAMETER.
- EXCAVATED MATERIAL SHALL BE STOCK PILED IN LOCATION(S) APPROVED BY THE OWNER.
- NO EXCAVATED OR FILL MATERIAL SHALL BE PLACED IN ANY DRAINAGE PATH, WHETHER IT IS A PAVED FLOWLINE, SWALE, CREEK, OR FLOORPLAIN, UNLESS NOTED OTHERWISE.
- ALL DEBRIS, FOREIGN MATERIAL, AND EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
- UNDER ANY PROPOSED SLABS AND SITE PAVING, EXISTING CLAYEY SOILS SHALL BE EXCAVATED AND REPLACED WITH AT LEAST 24 INCHES OF RELATIVELY NON-EXPANSIVE SOILS.
- PRIOR TO PLACEMENT OF FILL, SCARIFY EXPOSED SOILS TO A DEPTH OF 6 INCHES AND COMPACT TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- FILL, INCLUDING BACKFILL, SHOULD BE PLACED IN LOOSE LIFTS NOT MORE THAN 8 INCHES THICK AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- UNDER ANY PROPOSED SLABS AND SITE PAVING, SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES AND COMPACTED TO 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- ALL IMPORTED FILL MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. MATERIAL SHOULD CONSIST OF RELATIVELY NON-EXPANSIVE SOILS WITH AN EXPANSION INDEX OF LESS THAN 25. THE IMPORTED MATERIALS SHOULD CONTAIN SUFFICIENT FINES (AT LEAST 15% PASSING THE NO. 200 SIEVE) SO AS TO BE RELATIVELY IMPERMEABLE AND RESULT IN A STABLE SUBGRADE WHEN COMPACTED.
- IF AT ANY TIME DURING GRADING OPERATIONS ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
- ALL TRENCHES SHALL BE BACKFILLED PER DETAILS AND SPECIFICATIONS WITH APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
- WATER SHALL BE PROVIDED ON SITE AND USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS, UNLESS OTHER DUST CONTROL MEASURES ARE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE SITE DRAINAGE AT ALL TIMES.

## UTILITIES

- THE EXISTENCE, LOCATION, AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE DATA, INCLUDING KPFF UTILITY SURVEYS COMPLETED ON 02/20/2023 AND 03/04/2023, NAVIGATE-LA, AND RECORD DRAWINGS PROVIDED BY THE OWNER. NO REPRESENTATION IS MADE AS TO THE ACCURACY NOR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- ALL EXISTING UTILITY AND DRAINAGE ACCESS POINTS (E.G. MANHOLES, CATCH BASINS, VALVE BOXES/VAULTS, PULL BOXES) WHICH ARE NOT SHOWN TO BE DEMOLISHED SHALL HAVE THEIR COVERS, FRAMES, AND/OR GRATES ADJUSTED TO FINISHED GRADE.
- THE CONTRACTOR SHALL CONTACT DIGALERT (811) A MINIMUM OF TWO WORKING DAYS BUT NOT MORE THAN FOURTEEN CALENDAR DAYS PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL POthOLE TO IDENTIFY ANY POTENTIAL UTILITY CONFLICTS WITH GRAVITY DRAINS, UTILITIES, OR FOUNDATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE CONTINGENCY FOR LOCALIZED RELOCATION OF PRESSURIZED OR DRY UTILITIES IF SUCH CLASHES EXIST. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY OWNER(S).
- UNLESS NOTED OR OTHERWISE AGREED WITH ENGINEER AND OWNER, ALL EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED IN WORKING ORDER. ANY PLANNED DISRUPTIONS SHALL COMPLY WITH OWNER'S PROCEDURES.
- INSTALLATION AND TESTING OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE CODES: AWWA C500 FOR DUCTILE IRON PIPING.
- PRIOR TO BACKFILLING, THE CONTRACTOR SHALL SURVEY THE LOCATION AND ELEVATION OF ANY SUBGRADE UTILITY IMPROVEMENTS AND SUBMIT RECORD(S) TO ENGINEER AND OWNER. THIS INCLUDES RECORDS OF UTILITY ABANDONMENT FOR THE PURPOSES OF ANTICIPATING AND IDENTIFYING ABANDONED UTILITIES IN THE FUTURE.
- IN ACCORDANCE WITH THE SAFE DRINKING WATER ACT, THE LEAD CONTENT IN PIPES, FITTINGS, AND FIXTURES CONVEYING POTABLE WATER SHALL NOT EXCEED 0.25 PERCENT.
- ALL UTILITY WORK PERFORMED BY THE CONTRACTOR, WHETHER ON THE SUPPLY-SIDE OR THE CUSTOMER-SIDE OF THE METERS(S), SHALL COMPLY WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE UTILITY PROVIDER(S). THIS MAY RESULT IN A CHANGE TO THE MATERIALS, LOCATIONS, OR DEPTHS OF THE UTILITIES SHOWN HEREIN. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDER(S) AND NOTIFY ENGINEER IF A DISCREPANCY EXISTS.
- DUCTILE IRON PIPE (DIP) FOR POTABLE WATER APPLICATIONS SHALL CONFORM TO AWWA C150 AND C151. PRESSURE CLASS 350 UNLESS NOTED OTHERWISE. FITTINGS SHALL CONFORM TO AWWA C110 OR AWWA C153. PUSH-ON JOINTS SHALL USE GASKETS CONFORMING TO AWWA C111, AND FLANGED JOINTS SHALL CONFORM TO AWWA C115. ALL PIPES SHALL HAVE FACTORY APPLIED DOUBLE THICKNESS CEMENT MORTAR LININGS CONFORMING TO AWWA C104 AND POLYETHYLENE ENCASEMENT CONFORMING TO AWWA C105.

## STORMWATER POLLUTION CONTROL

- THE CONTRACTOR SHALL PREPARE AND FILE THE NOTICE OF INTENT (NOI) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON THE CALIFORNIA STATE WATER BOARD'S SMARTS SYSTEM TO OBTAIN COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT, ORDER NO. 2009-0009-DWG AS AMENDED BY 2010-0014-DWG AND 2012-0006-DWG, UNTIL A NOTICE OF TERMINATION HAS BEEN FILED. THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH THE PROJECT SWPPP AND SHALL MAKE THE SWPPP AVAILABLE AT THE CONSTRUCTION SITE DURING WORK HOURS.
- ERODED SEDIMENTS AND POLLUTANTS SHALL BE RETAINED ON SITE AND SHALL NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS SHALL BE COVERED AND/OR PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY WIND OR WATER.
- FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND SHALL NOT CONTAMINATE THE SOIL NOR THE SURFACE WATERS. ALL APPROVED TOXIC STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY AND SHALL NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- NON-STORM WATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED ON THE PROJECT SITE.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON-SITE UNTIL IT CAN BE APPROPRIATELY DISPOSED OF OR RECYCLED.
- TRASH AND CONSTRUCTION -RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF STORM WATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE STREET/PUBLIC WAYS. ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR BY ANY OTHER MEANS.
- RETENTION BASINS OF SUFFICIENT SIZE SHALL BE PROVIDED TO RETAIN STORM WATER RUNOFF ON-SITE AND SHALL BE PROPERLY LOCATED TO COLLECT ALL TRIBUTARY SITE RUNOFF.
- WHERE RETENTION OF STORM WATER RUNOFF ON-SITE IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, RUNOFF MAY BE CONVEYED TO THE STREET AND THE STORM DRAIN SYSTEM PROVIDED THAT AN APPROVED FILTERING SYSTEM IS INSTALLED AND MAINTAINED ON-SITE DURING THE CONSTRUCTION DURATION.

## STORM AND SANITARY

- PIPE INTERIORS SHALL BE KEPT CLEAN AND FREE OF FOREIGN MATERIAL FOR THE DURATION OF CONSTRUCTION. OPEN ENDS OF PIPES, FITTINGS, AND APPURTENANCES SHALL BE COVERED WITH TIGHT FITTING CAPS OR PLUGS WHEN PIPE INSTALLATION IS NOT IN PROGRESS.
- GRAVITY STORM DRAINAGE AND SANITARY SEWER SHALL BE LAID TO THE LINES AND GRADES SHOWN ON THE PLANS. INSTALLATION SHALL BEGIN AT THE DOWNSTREAM RECEIVING DRAIN OR OUTFALL AND PROCEED IN THE UPSTREAM DIRECTION. ANY DISCREPANCIES OR CONCERNS WITH THE CONDITION, LOCATION, SIZE, OR ELEVATION OF THE DOWNSTREAM RECEIVING DRAIN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- MAINTAIN EXISTING STORM DRAIN AND SEWER SYSTEM(S) UNTIL THE PROPOSED SYSTEM(S) HAS BEEN ACCEPTED AND PUT IN SERVICE.
- ALL BRANCH CONNECTIONS TO MAIN LINES SHALL BE WYE CONNECTIONS UNLESS NOTED OTHERWISE. INVERT ELEVATIONS OF BRANCH LINES SHALL BE AS SHOWN ON THE PLAN BUT IN NO CASE SHALL THE CENTERLINE OF THE BRANCH LINE BE LOWER THAN THE CENTERLINE OF THE MAIN LINE.
- UNLESS NOTED OTHERWISE ALL BENDS INCLUDING WYES SHALL USE MANUFACTURED FITTINGS COMPLYING WITH THE PROJECT SPECIFICATIONS.
- MANUFACTURED ADAPTORS USED TO CONNECT PIPES OF DIFFERENT MATERIALS SHALL BE SELECTED SPECIFICALLY FOR THE PIPE MATERIALS BEING JOINED.
- ALL PIPE CONNECTIONS TO MANHOLES SHALL USE FLEXIBLE COUPLINGS CONFORMING TO ASTM C923.
- FOLLOWING PLACEMENT AND COMPACTION OF BACKFILL AND PRIOR TO PLACEMENT OF ANY PERMANENT PAVEMENT SURFACING, ALL PIPES SHALL BE CLEANED AND INSPECTED WITH CCTV.
- PRIOR TO ACCEPTANCE ALL PIPES MUST BE TESTED AND MEET THE ACCEPTANCE CRITERIA IN THE PROJECT SPECIFICATIONS.
- THIS PROJECT INCLUDES LOW IMPACT DEVELOPMENT PRACTICES IN COMPLIANCE WITH SECTION 64.72 OF THE LOS ANGELES MUNICIPAL CODE. ANY CHANGES (TYPE, SIZE, LOCATION) TO APPROVED STORMWATER BEST MANAGEMENT PRACTICE(S) (BMPs) MUST OBTAIN WRITTEN APPROVAL FROM LOS ANGELES, DEPARTMENT OF PUBLIC WORKS, BUREAU OF SANITATION PRIOR TO CONSTRUCTION OF BMP(S).
- THE CITY REQUIRES A STORMWATER OBSERVATION REPORT (SOR) TO BE SUBMITTED TO THE CITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY (C OF O). THE SOR MUST BE SUBMITTED WITH PHOTOS OF THE BMPs TAKEN DURING VARIOUS CONSTRUCTION PHASES. THE CONTRACTOR SHALL COORDINATE SITE VISITS WITH THE ENGINEER AT APPROPRIATE STAGE OF CONSTRUCTION OR SHALL ENSURE THAT SUFFICIENT DETAILED PHOTOS ARE PROVIDED TO THE ENGINEER.
- POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D2034, SDR 35 UNLESS NOTED OTHERWISE. JOINTS SHALL BE BELL AND SPIGOT CONFORMING TO ASTM D2122 WITH GASKETS CONFORMING TO ASTM F477. FITTINGS SHALL CONFORM TO ASTM F1336.

## REINFORCING STEEL

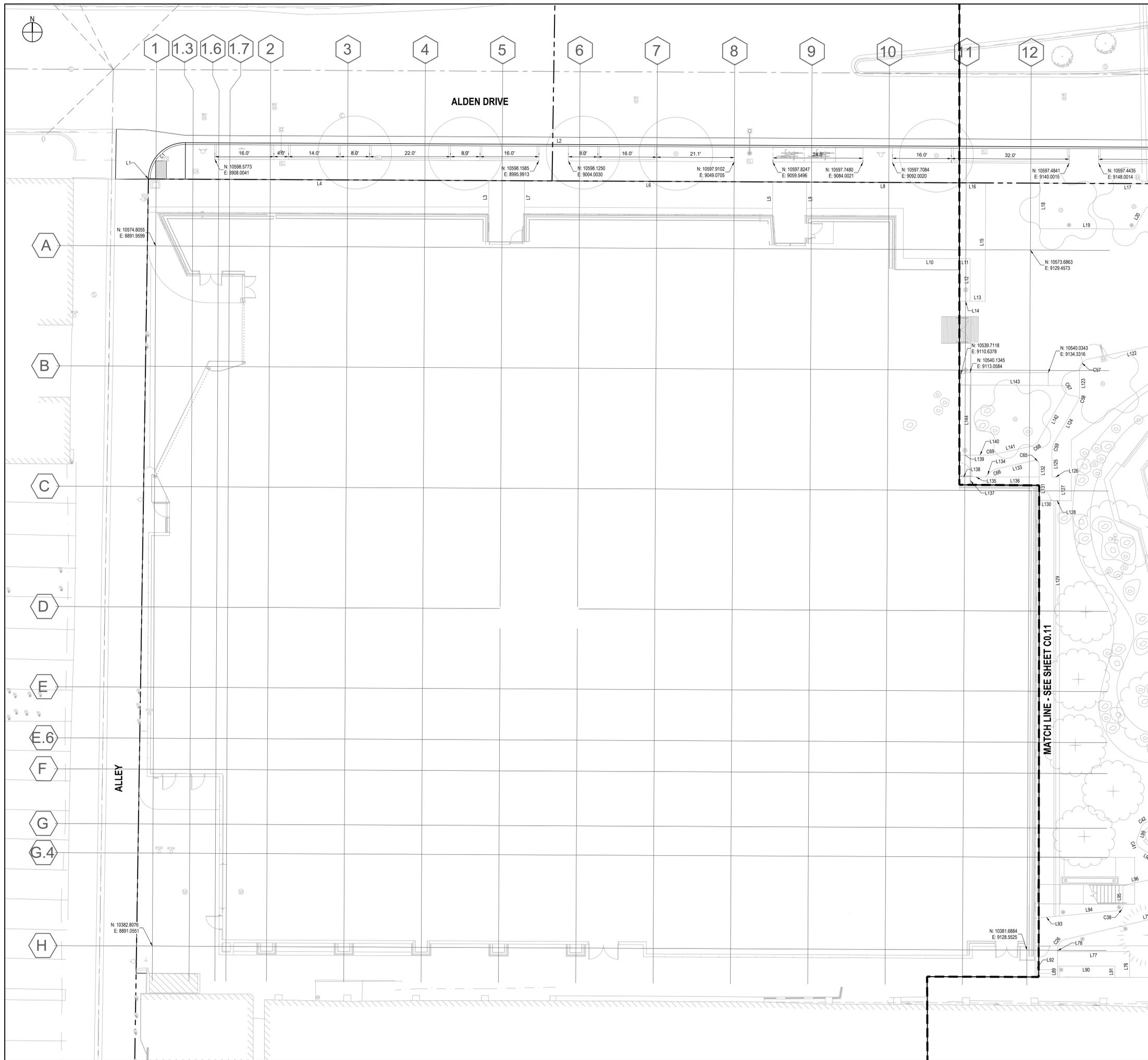
- DEFORMED BARS SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. DEFORMED BARS TO BE WELDED SHALL CONFORM TO ASTM A706 GRADE 60. WELDED WIRE REINFORCEMENT (WELDED WIRE FABRIC) SHALL CONFORM TO ASTM A1064.
- WELDED WIRE REINFORCEMENT (WWR) SHALL BE FLAT SHEETS UNLESS OTHERWISE APPROVED. MINIMUM LAP OF WWR SHALL BE 6" OR ONE FULL MESH PLUS 2", WHICHEVER IS GREATER.
- DEVELOPMENT LENGTH (Ld) OF REINFORCING BARS SHALL BE CALCULATED IN ACCORDANCE WITH ACI 318-14, TABLE 25.4.2.2.
- LAP SPLICES SHALL BE CLASS "B" UNO, WITH LAP SPICE LENGTH (LTB) BEING THE GREATER OF 12 INCHES AND 1.3 MULTIPLIED BY Ld. LAP SPLICES SHALL BE SECURELY TIED AT ALL SIDE AND END LAPS.
- REINFORCING BARS MARKED AS "CONTINUOUS" SHALL BE LAP SPLICED.
- REINFORCING BAR SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS. WHERE SPLICE LOCATIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SHOW THEIR PROPOSED SPLICE LOCATIONS ON THE SHOP DRAWINGS.
- ALL BARS AT NON-CONTINUOUS ENDS OF STRUCTURAL CONCRETE SHALL HAVE A STANDARD HOOK.
- WELDING OF REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH AWS D1.4. WELD REINFORCING BARS ONLY WHERE INDICATED ON THE DRAWINGS. TACK WELDING OR WELDING OF BARS TO PLATES, TEMPLATES, ETC. IS PROHIBITED, UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
- BARS SHALL NOT BE BENT OR TWISTED IN THE FIELD, UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.
- ALL REINFORCING BARS, INSERTS, EMBEDS, ETC. SHALL BE SECURELY HELD IN PLACE TO MAINTAIN THEIR POSITIONS WHILE CONCRETE IS POURED. PROVIDE SUITABLE CHAIRS, TIES, SPACERS, AND ADDITIONAL BARS AS REQUIRED.

## ABBREVIATIONS

AB	AGGREGATE BASE	DIA	DIAMETER	LAPC	LOS ANGELES PLUMBING CODE	SDMH	STORM DRAIN MAINTENANCE HOLE
AC	ACRES	DRN	DRAWN	LARWQOB	LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD	SF	SQUARE FEET
AC, ASPH	ASPHALT CONCRETE	DWG	DRAWING	LID	LOW IMPACT DEVELOPMENT	SHT	SHEET
ADA	AMERICANS WITH DISABILITIES ACT	DWY	DRIVEWAY	LP	LOW POINT	SL	STREET LIGHT
ADJ	ADJUST	E	EAST, EASTING	LT	LEFT	SPEC	SPECIFICATION
AHU	AIR HANDLING UNIT	EC	END OF CURVE	MAX	MAXIMUM	SPPPW	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
ALT	ALTERNATE/ALTERNATIVE	ECR	END OF CURVE RETURN	MECH	MECHANICAL	SS	SQUARE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	EAF	EACH FACE	MH	MAINTENANCE HOLE, MANHOLE	SQ	SANITARY SEWER
APP	APPROVE	EG	EXISTING GRADE, EXISTING GROUND, EDGE OF GUTTER	MIN	MINIMUM	SSCO	SANITARY SEWER CLEANOUT
APR	APRON	EL, ELEV	ELEVATION	MISC	MISCELLANEOUS	SSMH	SANITARY SEWER MAINTENANCE HOLE
APPROX	APPROXIMATELY	ELEC, E	ELECTRICAL	N	NORTH, NORTHING	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
AWWA	AMERICAN WATER WORKS ASSOCIATION	ECC	EDGE OF CONCRETE	N/A	NOT APPLICABLE	STA	STATION
BC	BEGINNING OF CURVE	EP	EDGE OF PAVEMENT	NAD	NORTH AMERICAN DATUM	STD	STANDARD
BCR	BEGINNING OF CURVE RETURN	EVC	END OF VERTICAL CURVE	NAVD	NORTH AMERICAN VERTICAL DATUM	STL	STEEL
BL	BOLLARD	EVG	EDGE OF V-GUTTER	NG	NATURAL GROUND, NATURAL GRADE	STRU	STRUCTURE
BLD	BUILDING	EX, EXIST. (E)	EXISTING	NIC	NOT IN CONTRACT	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
BM	BENCHMARK	fc	COMPRESSIVE STRENGTH OF CONCRETE	NO	NUMBER	T.TEL	TELEPHONE/COMMUNICATIONS
BMP	BEST MANAGEMENT PRACTICE	FF	FINISHED FLOOR ELEVATION	NPODES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	T&B	TOP AND BOTTOM
BOP	BOTTOM OF PIPE	FG	FINISHED GRADE, FINISHED GROUND	NTS	NOT TO SCALE	TC	TOP OF CURB
BOT	BOTTOM	FH	FIRE HYDRANT	OC	ON CENTER	TG	TOP OF GRATE
BRK	BRICK	FL	FLOWLINE	OD	OUTSIDE DIAMETER	THK	THICK
BS	BOTTOM OF STEP, BOTTOM OF STAIRS	FS	FINISHED SURFACE	OH	OVERHANG	TMH	TELECOMMUNICATIONS MAINTENANCE HOLE
EVC	BEGINNING OF VERTICAL CURVE	FSA	FINISHED SURFACE ASPHALT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	TOC	TOP OF CONCRETE
BW	BACK OF WALK	FSC	FINISHED SURFACE CONCRETE	(P), PROP	PROPOSED	TOP	TOP OF FOOTING
BX	BOTTOM OF TRANSITION	FT	FOOT	PCC	PORTLAND CEMENT CONCRETE	TOP	TOP OF PIPE
C/C	CENTER TO CENTER	FW	FIRE WATER	PE	POLYETHYLENE	TS	TOP OF STEP, TOP OF STAIR
CAB	CRUSHED AGGREGATE BASE	GB	GRADE BREAK	PL	PROPERTY LINE	TW	TOP OF WALL
CB	CATCH BASIN	GIS	GEOGRAPHICAL INFORMATION SYSTEM	POC	POINT OF CONNECTION	TX	TOP OF TRANSITION
CBC	CALIFORNIA BUILDING CODE	GL	GROUND LIGHT	PP	POLYPROPYLENE	TY	TYPICAL
CCTV	CLOSED CIRCUIT TELEVISION	GPM	GALLONS PER MINUTE	PRC	PRESSURE REGULATING VALVE	U, UNK	UNKNOWN
C, CDT	CONDUIT	HDPE	HIGH DENSITY POLYETHYLENE	PRV	PRESSURE REGULATING VALVE	UG, UNDR	UNDERGROUND
CF	CURB FACE	HP	HIGH POINT, HINGE POINT	PSI	POUNDS PER SQUARE INCH	UNO	UNKNOWN NOTED OTHERWISE
CFS	CUBIC FEET PER SECOND	HT	HEIGHT	PT	POINT OF TANGENCY	UVT	UNKNOWN VAULT
CHK	CHECKED	ID	INSIDE DIAMETER	PVC	POLYVINYL CHLORIDE	VAR	VARIABLE
CJ	CONTRACTION JOINT, CONTROL JOINT	IE	INVERT ELEVATION	PVI	POINT OF VERTICAL INTERSECTION	VIF	VERIFY IN FIELD
CL	CENTERLINE	J	ISOLATION JOINT	R	RADIUS	VOL	VOLUME
CLF	CHAIN LINK FENCE	INV	INVERT	R/W	RIGHT OF WAY	WC	WEST, DOMESTIC WATER
CMB	CRUSHED MISCELLANEOUS BASE	IR	IRRIGATION	RC	REINFORCED CONCRETE	W	WITH
COL	COLUMN	L	LENGTH	RCP	REINFORCED CONCRETE PIPE	W/	WITHOUT
COMM, C	COMMUNICATIONS	LA	LANDSCAPE AREA	RET	RETAINING	WM	WATER METER
CONC	CONCRETE	LABC	LOS ANGELES BUILDING CODE	REV	REVISION	WTR	WATER
CPC	CALIFORNIA PLUMBING CODE	LACDPW	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	RSR	RISER	WV	WATER VALVE
CW	COLD WATER, DOMESTIC WATER	LADBS	LOS ANGELES BUILDING DEPARTMENT OF BUILDING AND SAFETY	S	SOUTH	WWR	WELDED WIRE REINFORCEMENT
CY	CUBIC YARDS	DEMO	DEMOLISH, DEMOLITION	SAD	SEE ARCHITECTURAL DRAWINGS	YR	YEAR
DEPT	DEPARTMENT	LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER	SCH	SCHEDULE		
DET	DETAIL	LAFD	LOS ANGELES FIRE DEPARTMENT	SD	STORM DRAIN		
				SDCO	STORM DRAIN CLEANOUT		

## CIVIL DRAWING LIST

DWG No.	DRAWING TITLE
C0.01	GENERAL NOTES INDEX AND VICINITY MAP
C0.10	HORIZONTAL CONTROL PLAN
C0.11	HORIZONTAL CONTROL PLAN
C0.12	LINE AND CURVE TABLES
C1.00	EXISTING CONDITIONS PLAN
C1.10	EROSION AND SEDIMENT CONTROL PLAN
C2.00	OVERALL SITE GRADING AND DRAINAGE PLAN
C2.01	ENLARGED GRADING AND DRAINAGE PLAN
C2.02	ENLARGED GRADING AND DRAINAGE PLAN
C2.10	LID FORMS
C3.00	COMPOSITE UTILITIES PLAN
C5.00	TYPICAL DETAILS
C5.01	TYPICAL DETAILS

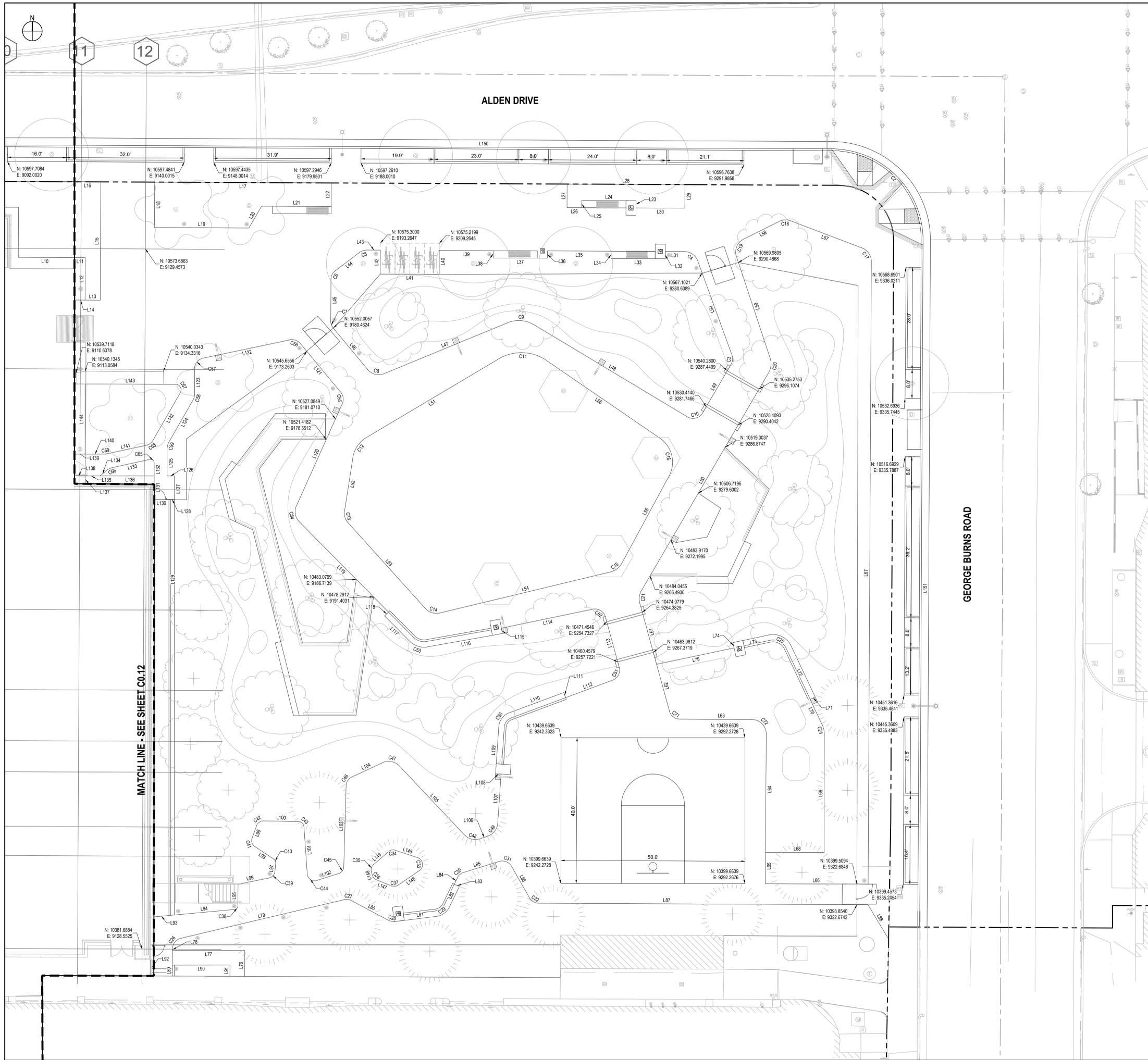


**GENERAL NOTES:**

1. REFER TO SHEET C0.13 FOR LINE AND CURVE TABLES.

**LEGEND:**





**GENERAL NOTES:**

- REFER TO SHEET C0.13 FOR LINE AND CURVE TABLES.

**LEGEND:**



## LINE TABLE

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L1	10593.27	8889.98	10593.16	8889.98
L2	10602.12	9110.20	10603.12	8900.03
L3	10583.53	8982.38	10592.72	8982.43
L4	10592.72	8982.43	10593.16	8990.48
L5	10593.16	9059.48	10592.36	9059.52
L6	10592.36	9059.52	10592.68	8992.10
L7	10592.68	8992.10	10593.48	8992.05
L8	10592.12	9110.20	10592.32	9068.71
L9	10592.32	9068.71	10593.12	9068.67
L10	10571.32	9110.20	10571.40	9062.97
L11	10571.30	9113.14	10571.32	9110.20
L12	10569.65	9113.08	10571.30	9113.14
L13	10569.65	9113.08	10569.63	9117.18
L14	10569.67	9110.58	10569.65	9113.08
L15	10569.63	9117.18	10562.09	9117.30
L16	10562.09	9117.34	10562.12	9110.20
L17	10591.79	9179.93	10592.02	9131.96
L18	10592.02	9131.96	10579.56	9131.92
L19	10579.56	9131.92	10579.44	9157.59
L20	10579.44	9157.59	10585.41	9161.01

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L21	10585.41	9161.01	10585.41	9179.91
L22	10585.41	9179.91	10591.79	9179.94
L23	10584.95	9262.69	10586.94	9262.70
L24	10586.94	9262.70	10587.02	9247.95
L25	10587.02	9247.95	10585.02	9247.94
L26	10585.02	9247.94	10585.04	9243.94
L27	10585.04	9243.94	10591.49	9243.97
L28	10591.49	9243.97	10591.34	9275.97
L29	10591.34	9275.97	10584.89	9275.94
L30	10584.89	9275.94	10584.95	9262.69
L31	10572.98	9275.73	10573.01	9270.64
L32	10573.01	9270.64	10571.00	9270.63
L33	10571.00	9270.63	10571.07	9255.88
L34	10571.07	9255.88	10573.07	9255.89
L35	10573.07	9255.89	10573.15	9238.64
L36	10573.15	9238.64	10571.15	9238.63
L37	10571.15	9238.63	10571.22	9223.88
L38	10571.22	9223.88	10573.24	9223.89
L39	10573.24	9223.89	10573.31	9209.25
L40	10573.31	9209.25	10566.72	9209.24

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L41	10566.72	9209.24	10566.80	9193.22
L42	10566.80	9193.22	10573.37	9193.26
L43	10573.37	9193.26	10573.39	9189.81
L44	10572.56	9187.36	10567.72	9181.03
L45	10565.35	9179.85	10563.90	9179.80
L46	10561.99	9180.48	10540.68	9189.76
L47	10539.63	9194.61	10533.44	9227.76
L48	10532.90	9234.99	10527.66	9276.62
L49	10528.73	9280.77	10542.10	9288.50
L50	10544.62	9288.73	10570.33	9279.48
L51	10543.53	9225.38	10522.05	9189.58
L52	10516.41	9185.79	10511.86	9183.54
L53	10498.59	9184.51	10474.94	9205.63
L54	10473.89	9209.48	10465.09	9255.65
L55	10467.59	9258.88	10511.44	9271.66
L56	10573.80	9288.16	10543.11	9238.38
L57	10573.97	9324.02	10581.39	9304.74
L58	10581.23	9301.51	10576.42	9291.96
L59	10571.59	9289.96	10543.78	9299.10
L60	10539.72	9298.68	10479.85	9264.07

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L61	10476.39	9263.76	10459.80	9268.26
L62	10459.80	9268.26	10446.97	9271.75
L63	10444.75	9274.63	10444.66	9294.07
L64	10440.64	9298.05	10399.64	9297.76
L65	10440.64	9298.05	10399.64	9297.76
L66	10399.64	9297.76	10399.49	9325.70
L67	10399.49	9325.70	10570.26	9326.58
L68	10408.21	9297.83	10408.17	9313.76
L69	10408.17	9313.76	10440.61	9313.82
L70	10443.16	9313.26	10450.19	9309.98
L71	10450.19	9309.98	10450.83	9311.34
L72	10450.83	9311.34	10464.77	9304.83
L73	10467.82	9298.70	10465.76	9289.00
L74	10464.28	9289.31	10465.76	9289.00
L75	10459.80	9268.26	10464.28	9289.31
L76	10374.21	9156.42	10381.31	9156.45
L77	10381.31	9156.45	10381.29	9136.83
L78	10381.29	9136.83	10381.75	9136.83
L79	10384.66	9139.13	10395.21	9183.37
L80	10394.94	9185.48	10389.60	9195.45

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L81	10389.26	9197.22	10390.66	9208.49
L82	10393.18	9211.99	10398.83	9214.69
L83	10398.83	9214.69	10399.48	9213.34
L84	10399.48	9213.34	10401.17	9214.15
L85	10402.74	9215.96	10405.70	9226.42
L86	10404.31	9228.94	10395.79	9233.73
L87	10394.26	9236.33	10393.84	9325.67
L88	10393.84	9325.67	10384.21	9331.40
L89	10374.29	9136.83	10377.29	9136.83
L90	10377.29	9136.83	10377.31	9152.43
L91	10377.31	9152.43	10374.23	9152.42
L92	10379.01	9131.26	10374.31	9131.24
L93	10390.42	9130.50	10390.91	9135.85
L94	10390.91	9135.85	10392.54	9153.67
L95	10393.54	9154.68	10399.48	9154.61
L96	10399.48	9154.61	10401.20	9163.03
L97	10402.96	9164.62	10405.06	9164.84
L98	10406.46	9164.18	10409.79	9159.21
L99	10412.13	9168.44	10415.54	9159.66
L100	10416.86	9161.59	10416.64	9171.06

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L101	10415.24	9172.52	10402.29	9173.42
L102	10400.53	9176.02	10402.42	9181.94
L103	10404.27	9183.33	10426.53	9183.97
L104	10426.54	9185.67	10432.85	9193.96
L105	10431.98	9198.39	10412.91	9216.17
L106	10411.95	9220.37	10412.71	9222.49
L107	10416.21	9225.13	10429.66	9226.04
L108	10429.66	9226.04	10429.77	9224.54
L109	10429.77	9224.54	10442.61	9225.42
L110	10446.52	9228.32	10452.05	9243.06
L111	10452.05	9243.06	10450.65	9243.58
L112	10450.65	9243.58	10455.41	9256.28
L113	10459.00	9258.12	10472.74	9254.38
L114	10474.90	9250.94	10469.69	9226.14
L115	10469.69	9226.14	10468.22	9226.40
L116	10468.22	9226.40	10464.63	9236.31
L117	10466.15	9201.20	10473.08	9194.41
L118	10473.08	9194.41	10474.13	9195.48
L119	10474.13	9195.48	10498.86	9171.27
L120	10502.99	9170.36	10512.27	9182.93

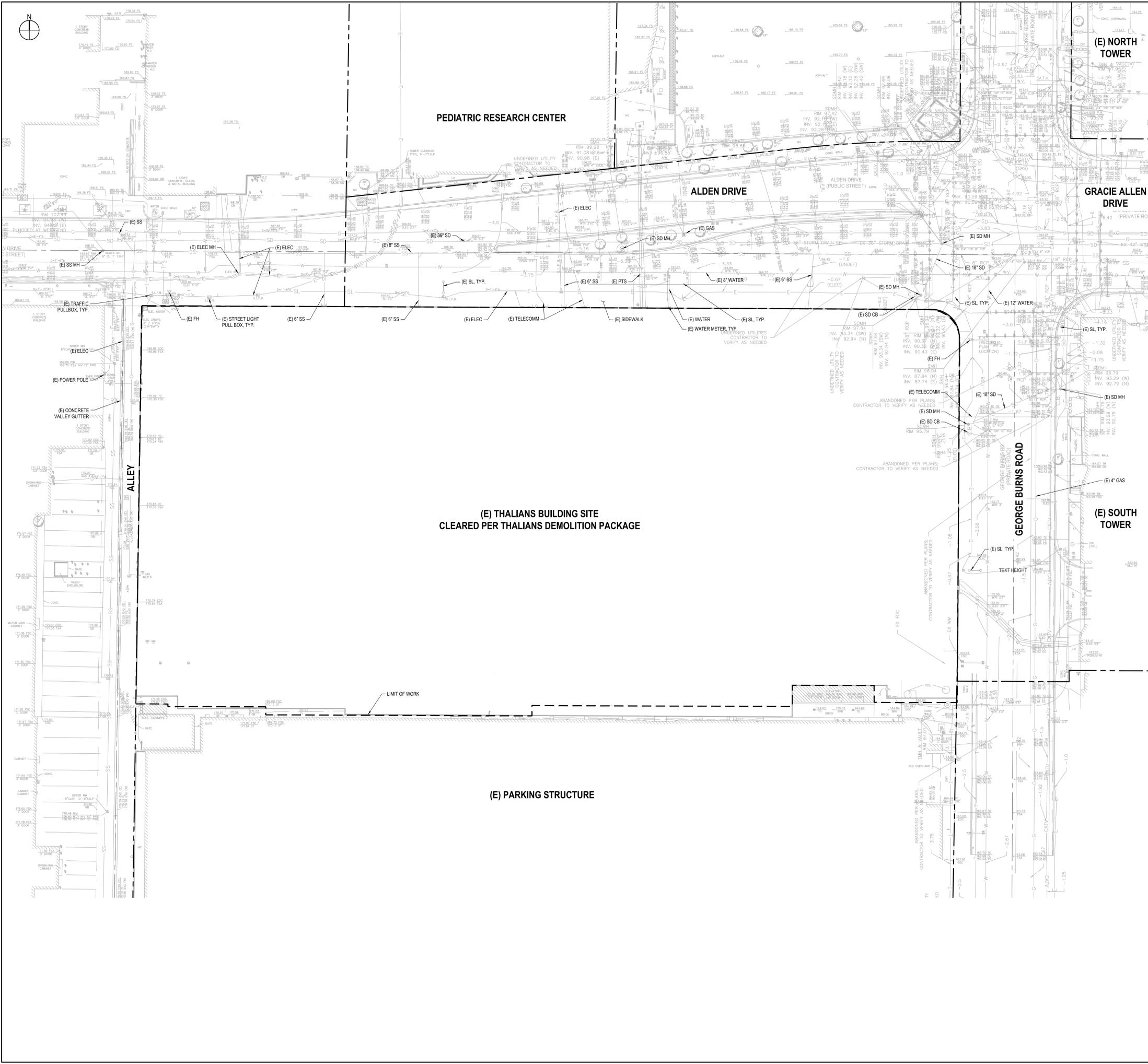
LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L121	10534.39	9182.51	10547.72	9171.56
L122	10548.72	9188.51	10543.75	9145.20
L123	10540.81	9142.82	10533.83	9142.82
L124	10532.34	9142.43	10521.03	9136.01
L125	10518.56	9135.36	10511.44	9135.36
L126	10511.44	9135.36	10511.38	9137.36
L127	10511.38	9137.36	10505.01	9137.36
L128	10505.01	9137.36	10505.01	9135.85
L129	10390.91	9135.85	10505.01	9135.85
L130	10505.01	9135.85	10505.03	9131.85
L131	10505.03	9131.85	10511.44	9131.85
L132	10511.44	9131.85	10514.99	9131.85
L133	10515.97	9130.64	10513.81	9120.81
L134	10512.73	9118.63	10511.44	9117.13
L135	10511.44	9117.13	10511.44	9112.37
L136	10511.44	9117.13	10511.44	9131.85
L137	10511.44	9113.21	10509.30	9113.19
L138	10511.44	9112.37	10511.46	9109.52
L139	10517.46	9110.33	10517.45	9113.08
L140	10517.45	9118.56	10517.45	9113.08

LINE TABLE				
LINE#	START NORTHING	START EASTING	END NORTHING	END EASTING
L141	10519.83	9129.58	10517.48	9118.88
L142	10534.33	9138.96	10521.28	9131.55
L143	10536.64	9113.08	10536.57	9137.65
L144	10517.45	9113.08	10536.64	9113.08
L145	10406.77	9203.34	10408.78	9197.32
L146	10399.25	9198.12	10403.23	9203.85
L147	10400.69	9192.23	10399.04	9196.22
L148	10402.86	9190.83	10402.00	9191.07
L149	10409.71	9195.87	10404.91	9191.45
L150	10601.15	9315.74	10602.13	9110.20
L151	10387.74	9339.71	10576.03	9340.62

## CURVE TABLE

CURVE TABLE						
CURVE#	START NORTHING	START EASTING	END NORTHING	END EASTING	RADIUS	DELTA
C1	10603.12	8900.03	10593.27	8889.98	10.00	89°23'34"
C2	10576.03	9340.62	10601.15	9316.74	25.00	90°00'38"
C3	10542.10	9298.58	10544.62	9288.73	3.00	49°49'34"
C4	10570.33	9279.48	10572.96	9276.73	4.00	69°56'00"
C5	10573.39	9189.81	10572.56	9187.36	4.00	37°40'45"
C6	10567.72	9181.03	10565.35	9179.85	3.00	52°19'15"
C7	10553.90	9179.80	10551.99	9180.48	3.00	39°39'51"
C8	10540.68	9189.76	10539.63	9194.61	4.00	76°44'44"
C9	10553.44	9227.76	10552.90	9234.99	8.00	53°50'19"
C10	10527.66	9276.62	10528.73	9280.77	3.00	91°11'29"
C11	10543.11	9238.38	10543.53	9238.38	12.00	65°39'32"
C12	10522.05	9189.58	10516.41	9185.79	8.00	50°15'13"
C13	10501.86	9183.54	10498.59	9184.51	4.00	50°32'50"
C14	10474.94	9205.63	10473.89	9200.48	4.00	60°00'04"
C15	10485.09	9255.65	10481.59	9258.88	5.00	48°10'40"
C16	10511.44	9271.66	10521.80	9269.16	8.00	83°29'10"
C17	10570.22	9326.58	10573.97	9324.02	4.00	69°14'16"
C18	10581.39	9304.74	10581.23	9301.51	4.00	47°46'21"
C19	10576.42	9291.96	10571.59	9289.96	4.00	81°27'20"
C20	10543.78	9299.10	10539.72	9298.68	5.00	48°13'21"

CURVE TABLE						
CURVE#						



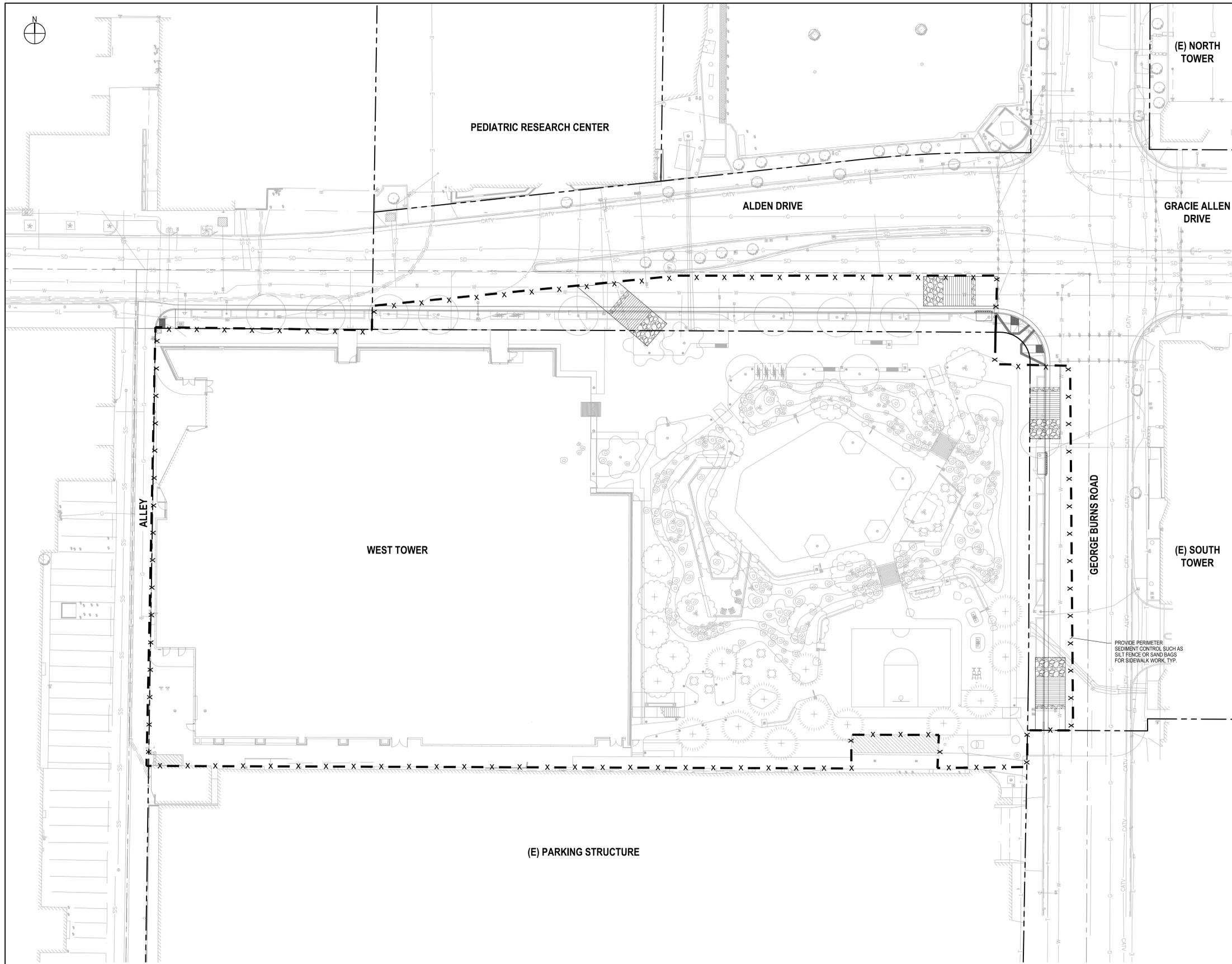
**GENERAL NOTES:**

1. REFER TO SURVEY AND UTILITY NOTES ON SHEET C0.01 FOR THE SOURCE OF EXISTING TOPOGRAPHIC AND UTILITY INFORMATION SHOWN ON THIS PLAN.
2. ALL DESIGN COORDINATES AND ELEVATIONS ARE PER THE HORIZONTAL AND VERTICAL DATUM AS STATED IN THE SURVEY NOTES ON SHEET C0.01.
3. LIMIT OF WORK LINE IS APPROXIMATE FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR WORK OUTSIDE THE LIMIT LINE.

**LEGEND:**

- PROPERTY LINE
- - - LIMIT OF SITE WORK
- T TELECOMMS LINE
- E ELECTRICAL LINE
- SS SANITARY SEWER LINE
- SD STORM DRAIN LINE
- G NATURAL GAS LINE
- W WATER LINE





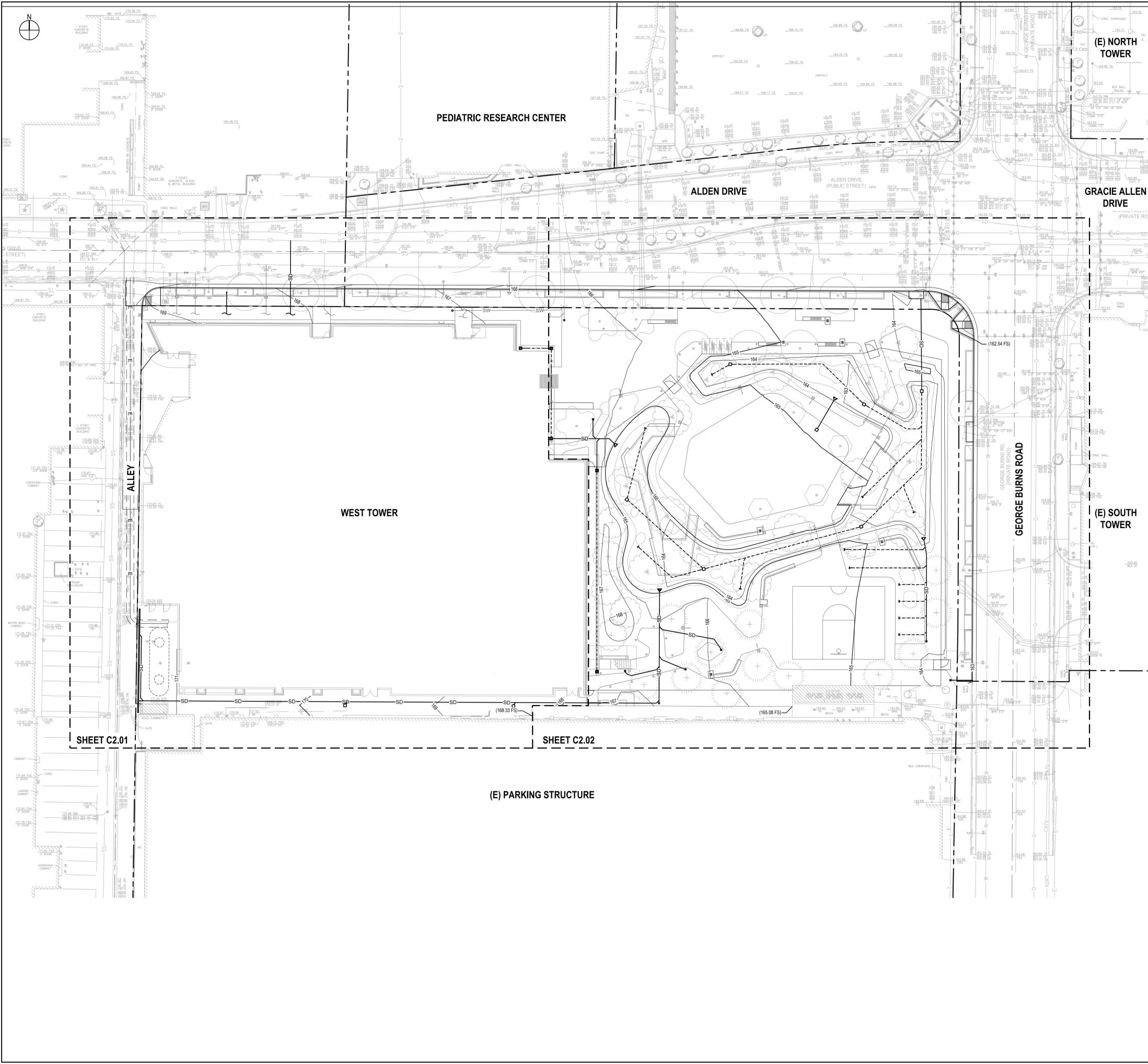
**GENERAL NOTES:**

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITIES TO PROTECT ADJACENT AND DOWNSTREAM PROPERTIES FROM SEDIMENT RUNOFF. MEASURES INCLUDE, BUT ARE NOT LIMITED TO, STABILIZED CONSTRUCTION ACCESS, SILT FENCES, TEMPORARY SEDIMENT BASINS, FIBER ROLLS, AND INLET PROTECTION. REFER TO PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) (BY OTHERS) FOR SITE SPECIFIC DETAILS. THIS PLAN DEPICTS THE MINIMUM TESC MEASURES AND IS FOR PERMITTING PURPOSES ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TESC MEASURES THAT PROVIDE ADEQUATE PROTECTION TO OFF-SITE DRAINAGE SYSTEMS AND DOWNSTREAM WATER BODIES DURING DEMOLITION AND ALL SUBSEQUENT CONSTRUCTION PHASES, IN CONFORMANCE WITH THE CONSTRUCTION GENERAL PERMIT AND PROJECT SWPPP.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE PROJECT SWPPP AND ASSOCIATED TESC PLANS IN ACCORDANCE WITH THEIR PROPOSED PHASING STRATEGY.
4. THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STORMWATER CONSTRUCTION BEST MANAGEMENT PRACTICE HANDBOOK, PUBLISHED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA).
5. THE CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES OR PROTECTED AREAS.
6. THE CONTRACTOR SHALL CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
7. THE CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE, AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS, AND CORRECTIVE ACTION IF SUCH OCCURS. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT AND OTHER SUBSTANCES ARE NOT TRACKED OFF-SITE OR ONTO AREAS WHICH DRAIN TO SWALES, DITCHES, WATERWAYS, ETC.
8. THE CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION. ALL STOCKPILES NOT ACTIVELY BEING USED SHALL BE COVERED.
9. AT MINIMUM, THE FOLLOWING SOIL STABILIZATION MEASURES SHALL BE PROVIDED DURING CONSTRUCTION AS REQUIRED TO MINIMIZE SOIL EROSION AT CONSTRUCTION ACCESS POINT(S):
  - 9.1. TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, INSTALLED AT LOCATIONS DESIGNATED BY CONTRACTOR TO REDUCE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION EQUIPMENT;
  - 9.2. TEMPORARY STABILIZED CONSTRUCTION ROADWAYS IN LOCATIONS DESIGNATED BY CONTRACTOR TO PREVENT EROSION AND TO CONTROL TRACKING OF MUD AND SOIL MATERIALS ONTO PUBLIC ROADS;
  - 9.3. TEMPORARY STABILIZED CONSTRUCTION EXIT TIRE WASH LOCATED AT EGRESS POINT TO REMOVE SEDIMENTS FROM UNDER CARRIAGES AND TO PREVENT SEDIMENTS FROM BEING TRANSPORTED ONTO PUBLIC ROADS.
10. THE NEXT DOWNSTREAM CATCH BASIN / DRAINAGE INLET SHALL BE PROTECTED.

**LEGEND:**

- PROPERTY LINE
- X — SILT FENCE (SE-1)
- ▨ INLET PROTECTION (SE-10)
- ▧ STABILIZED CONSTRUCTION ENTRANCE (TC-1)





- GENERAL NOTES:**
- REFER TO SHEET C0.01 FOR GENERAL NOTES INCLUDING GRADING, EARTHWORK, CONCRETE, AND STORM DRAINAGE.
  - REFER TO C5.00 SERIES FOR TYPICAL DETAILS.
  - CURB RAMP SHALL COMPLY WITH THE CITY OF LOS ANGELES STANDARD PLAN NO. S442.6. SEE SHEET C5.00 FOR GROOVED BORDER AND DETECTABLE WARNING SURFACE DETAILS.
  - REFER TO LANDSCAPE DRAWINGS FOR CONCRETE PAVEMENT JOINT LAYOUT.
  - FINISHED GROUND OF LANDSCAPING SHALL BE 1" MIN. BELOW HARDSCAPE AT JOINT LOCATIONS.

**CONSTRUCTION NOTES:**

**LEGEND:**

—	PROPERTY LINE
SD	(P) STORM DRAIN LINE
---	(P) 4" PERFORATED PIPE
W	(P) DOMESTIC WATER LINE
FW	(P) FIREWATER LINE
SS	(P) SANITARY SEWER LINE
E	(P) ELECTRICAL LINE
SS	(E) SANITARY SEWER LINE
T	(E) TELECOMMS
W	(E) DOMESTIC WATER LINE
FW	(E) FIREWATER LINE
SD	(E) STORM DRAIN LINE
E	(E) ELECTRICAL LINE
G	(E) GAS LINE



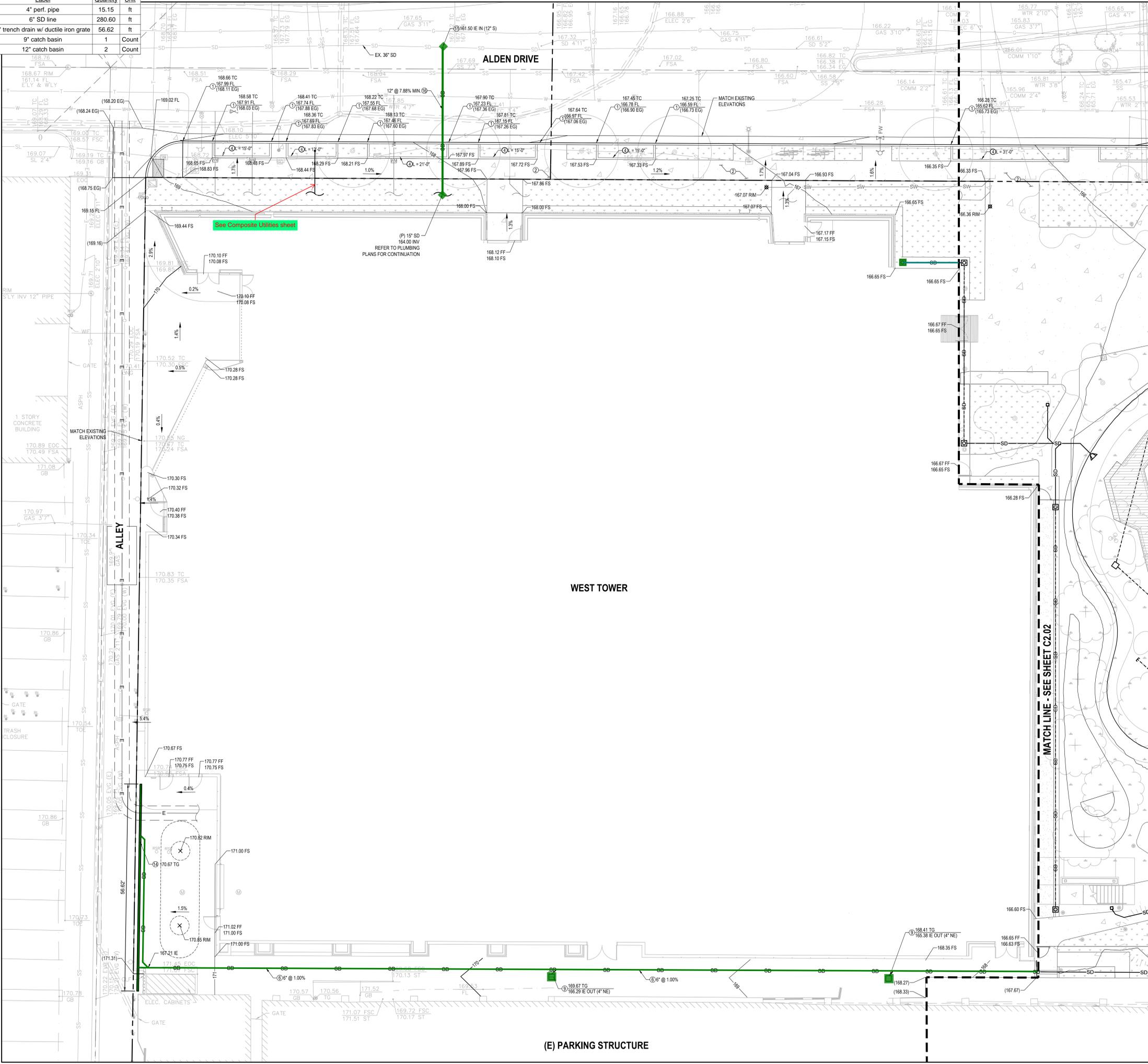
Description	Label	Quantity	Unit
Site Utilities	4" perf. pipe	15.15	ft
Site Utilities	6" SD line	280.60	ft
Site Utilities	6" trench drain w/ ductile iron grate	56.62	ft
Site Utilities	9" catch basin	1	Count
Site Utilities	12" catch basin	2	Count

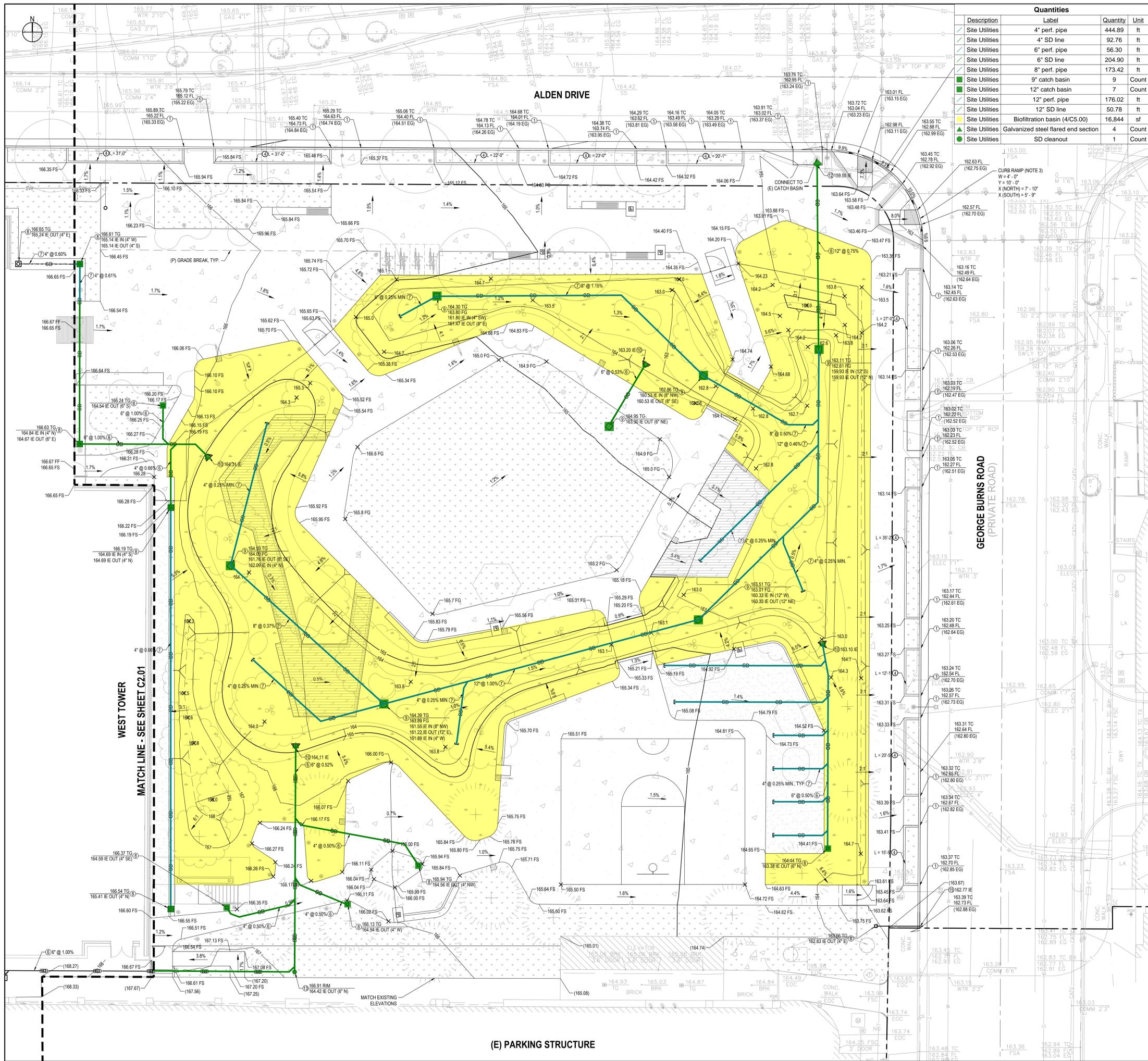
- GENERAL NOTES:**
- REFER TO SHEET C0.01 FOR GENERAL NOTES INCLUDING GRADING, EARTHWORK, CONCRETE, AND STORM DRAINAGE.
  - REFER TO C0.00 SERIES FOR TYPICAL DETAILS.
  - CURB RAMPS SHALL COMPLY WITH THE CITY OF LOS ANGELES STANDARD PLAN NO. S442.6. SEE SHEET C5.00 FOR GROOVED BORDER AND DETECTABLE WARNING SURFACE DETAILS.
  - REFER TO LANDSCAPE DRAWINGS FOR CONCRETE PAVEMENT JOINT LAYOUT.
  - FINISHED GROUND OF LANDSCAPING SHALL BE 1" MIN. BELOW HARDSCAPE JOINT LOCATIONS.

- CONSTRUCTION NOTES:**
- CONCRETE CURB AND GUTTER PER DETAIL 1/C5.00
  - CONCRETE PAVEMENT PER DETAIL 3/C5.00
  - RESILIENT SURFACING PER DETAIL 8/C5.00
  - PARKWAY BIOFILTRATION SWALE PER DETAIL 9/C5.00
  - BIOFILTRATION BASIN PER DETAIL 4/C5.00
  - SDR 35 PVC STORM DRAIN, SIZE AND SLOPE PER PLAN, TRENCHING PER DETAIL 2/C5.01
  - PERFORATED PVC SEWER AND DRAIN PIPE, ASTM D2729, SIZE AND SLOPE PER PLAN
  - 9" SQ CATCH BASIN WITH ATRIUM GRATE AND FILTER, NDS 900 OR APPROVED EQUAL
  - 12" SQ CATCH BASIN WITH STEEL PARKWAY GRATE AND FILTER, OLDCASTLE 1212CB OR APPROVED EQUAL
  - GALVANIZED STEEL FLARED END SECTION
  - JUNCTION STRUCTURE "B" PER CITY OF LOS ANGELES STANDARD PLAN S-302-1
  - CONNECTION TO EX. CATCH BASIN PER SPPWC STANDARD PLAN 208-3
  - CLEANOUT PER DETAIL 4/C5.01
  - 6" TRENCH DRAIN WITH DUCTILE IRON GRATE, LOAD CLASS E, ABT POLYDRAIN OR APPROVED EQUAL, PER DETAIL 5/C5.01
  - 3" x 5" CURB DRAIN, CURB-OLET TCD 35 OR APPROVED EQUAL
  - TYPE S HDPE STORM DRAIN, SIZE AND SLOPE PER PLAN, TRENCHING PER DETAIL 2/C5.01

- LEGEND:**
- PROPERTY LINE
  - (P) GRADE BREAK
  - SD STORM DRAIN LINE
  - (P) 4" PERFORATED PIPE
  - (P) DOMESTIC WATER LINE
  - (P) FIREWATER LINE
  - (P) SANITARY SEWER LINE
  - (P) ELECTRICAL LINE
  - (E) SANITARY SEWER LINE
  - (E) TELECOMMS
  - (E) DOMESTIC WATER LINE
  - (E) FIREWATER LINE
  - (E) STORM DRAIN LINE
  - (E) ELECTRICAL LINE
  - (E) GAS LINE

- PAVEMENT AND LANDSCAPING**
- CONCRETE CURB, GUTTER OR WALK
  - DECOMPOSED GRANITE, SEE LANDSCAPING PLANS
  - WOOD DECK, SEE LANDSCAPING PLANS
  - PLANTING AREA, SEE LANDSCAPING PLANS
  - BIORETENTION BASIN





Quantities			
Description	Label	Quantity	Unit
Site Utilities	4" perf. pipe	444.89	ft
Site Utilities	4" SD line	92.76	ft
Site Utilities	6" perf. pipe	56.30	ft
Site Utilities	6" SD line	204.90	ft
Site Utilities	8" perf. pipe	173.42	ft
Site Utilities	9" catch basin	9	Count
Site Utilities	12" catch basin	7	Count
Site Utilities	12" perf. pipe	176.02	ft
Site Utilities	12" SD line	50.78	ft
Site Utilities	Biofiltration basin (4/C5.0)	16,844	sf
Site Utilities	Galvanized steel flared end section	4	Count
Site Utilities	SD cleanout	1	Count

- GENERAL NOTES:**
- REFER TO SHEET C0.01 FOR GENERAL NOTES INCLUDING GRADING, EARTHWORK, CONCRETE, AND STORM DRAINAGE.
  - REFER TO C5.00 SERIES FOR TYPICAL DETAILS.
  - CURB RAMP SHALL COMPLY WITH THE CITY OF LOS ANGELES STANDARD PLAN NO. S442.6. SEE SHEET C5.00 FOR GROOVED BORDER AND DETECTABLE WARNING SURFACE DETAILS.
  - REFER TO LANDSCAPE DRAWINGS FOR CONCRETE PAVEMENT JOINT LAYOUT.
  - FINISHED GROUND OF LANDSCAPING SHALL BE 1" MIN. BELOW HARDSCAPE AT JOINT LOCATIONS.

- CONSTRUCTION NOTES:**
- CONCRETE CURB AND GUTTER PER DETAIL 1/C5.00
  - CONCRETE PAVEMENT PER DETAIL 3/C5.00
  - RESILIENT SURFACING PER DETAIL 8/C5.00
  - PARKWAY BIOFILTRATION SWALE PER DETAIL 9/C5.00
  - BIOFILTRATION BASIN PER DETAIL 4/C5.00
  - SDR 35 PVC STORM DRAIN, SIZE AND SLOPE PER PLAN, TRENCHING PER DETAIL 2/C5.01
  - PERFORATED PVC SEWER AND DRAIN PIPE, ASTM D2729, SIZE AND SLOPE PER PLAN
  - 9" SD CATCH BASIN WITH ATRIUM GRATE AND FILTER, NDS 900 OR APPROVED EQUAL
  - 12" SD CATCH BASIN WITH STEEL PARKWAY GRATE AND FILTER, OLDCASTLE 1212CB OR APPROVED EQUAL
  - GALVANIZED STEEL FLARED END SECTION
  - JUNCTION STRUCTURE "B" PER CITY OF LOS ANGELES STANDARD PLAN S-302-1
  - CONNECTION TO EX. CATCH BASIN PER SPPWC STANDARD PLAN 208-3
  - CLEANOUT PER DETAIL 4/C5.01
  - 6" TRENCH DRAIN WITH DUCTILE IRON GRATE, LOAD CLASS E, ABT POLYDRAM OR APPROVED EQUAL, PER DETAIL 5/C5.01
  - 3" x 5" CURB DRAIN, CURB-O-LET TCD 35 OR APPROVED EQUAL
  - TYPE S HDPE STORM DRAIN, SIZE AND SLOPE PER PLAN, TRENCHING PER DETAIL 2/C5.01

**LEGEND:**

---	PROPERTY LINE
- - - -	(P) GRADE BREAK
SD	(P) STORM DRAIN LINE
- - - -	(P) 4" PERFORATED PIPE
W	(P) DOMESTIC WATER LINE
FW	(P) FIREWATER LINE
SS	(P) SANITARY SEWER LINE
E	(P) ELECTRICAL LINE
SS	(E) SANITARY SEWER LINE
T	(E) TELECOMM
W	(E) DOMESTIC WATER LINE
FW	(E) FIREWATER LINE
SD	(E) STORM DRAIN LINE
E	(E) ELECTRICAL LINE
G	(E) GAS LINE

**PAVEMENT AND LANDSCAPING**

[Symbol]	CONCRETE CURB, GUTTER OR WALK
[Symbol]	DECOMPOSED GRANITE, SEE LANDSCAPING PLANS
[Symbol]	WOOD DECK, SEE LANDSCAPING PLANS
[Symbol]	PLANTING AREA, SEE LANDSCAPING PLANS
[Symbol]	BIORETENTION BASIN



ALDEN DRIVE

GEORGE BURRIS ROAD  
(PRIVATE ROAD)

WEST TOWER  
MATCH LINE - SEE SHEET C2.01

(E) PARKING STRUCTURE

**STORMWATER OBSERVATION REPORT FORM**  
(Residential ≥ 5 units & All other Development)



**LOW IMPACT DEVELOPMENT**

**IN THE EVENT THAT THE APPROVED STORMWATER BMP CANNOT BE BUILT PER PLANS (OR ANY MODIFICATION), CONSULT WITH BUREAU OF SANITATION STAFF PRIOR TO ANY PLAN MODIFICATIONS. FAILURE TO DO SO MAY DELAY OBTAINING A FINAL APPROVAL AND CERTIFICATE OF OCCUPANCY (C OF O).**

**STORMWATER OBSERVATION** means the visual observation of the stormwater related Best Management Practices (BMPs) for conformance with the approved LID Plan at significant construction stages and at completion of the project. Stormwater observation does not include or waive the responsibility for the inspections required by Section 108 or other sections of the City of Los Angeles Building Code.

**STORMWATER OBSERVATION** must be performed by the engineer or architect responsible for the approved LID Plan or designated staff in their employment. **As part of the observation, provide photos of the BMPs taken during various construction phases.**

**STORMWATER OBSERVATION REPORT** must be signed and stamped (see below) by the engineer or architect responsible for the approved LID Plan and submitted to the city prior to the issuance to the certificate of occupancy. **PRIOR TO CERTIFICATE OF OCCUPANCY (C OF O), SOR FORM, PRINTED PHOTOS OF THE BMPs TAKEN DURING VARIOUS CONSTRUCTION PHASES AND APPROVED STAMPED PLANS BY THE BUREAU OF SANITATION MUST BE SUBMITTED TO THE PUBLIC COUNTER FOR STAFF APPROVAL.**

Project Address:	Building Permit No.: 24010-10000-03819
Name of Engineer/Architect responsible for the approved LID Plan:	Phone Number:

**List all BMPs installed as part of the project: Coordinates of the most significant (or typical) BMPs:**

BMP Type: ALDEN DRIVE BIOFILTRATION SWALES # of units: 10 Lat: 34.07518 ; Long: -118.38255 Ex: Lat: 34.04152; Long: -118.25962 (5 sig digits)	BMP Type: GEORGE BURNS ROAD BIOFILTRATION SWALES # of units: 5 Lat: 34.07490 ; Long: -118.38177
BMP Type: UNDERGROUND CISTERN, CAPTURE AND USE # of units: 1 Lat: 34.07511 ; Long: -118.38301	BMP Type: BIOFILTRATION BASIN # of units: 1 Lat: 34.07498 ; Long: -118.38194

I DECLARE THAT THE FOLLOWING STATEMENTS ARE TRUE TO THE BEST OF MY KNOWLEDGE:

- I am the engineer or architect responsible for the approved LID Plan, and;
- I, or designated staff under my responsible charge, has performed the required site visits at each significant construction stage and at the completion to verify that the Best Management Practices (BMPs) as shown on approved plans have been constructed and installed in accordance with the approved LID Plan.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Wet Stamp of Engineer or Architect**

Low Impact Development (LID)  
Post Construction Stormwater Mitigation  
Best Management Practices (BMPs)



**STORMWATER BMP(s) VERIFICATION**

Upon installation of the approved stormwater BMPs, a Stormwater Observation Report (SOR) Form shall be submitted to Department of Public Works, Bureau of Sanitation, 201 N. Figueroa, 3<sup>rd</sup> floor, station 18. The SOR Form must be with filed and approved by the Bureau of Sanitation prior to the issuance of a Certificate of Occupancy.

Project Address: \_\_\_\_\_

**RESIDENTIAL (4 UNITS OR LESS, <10,000SF, <2,500 SF within a ESA)**

Item #	Stormwater BMP	Description (Units, total)	Reference Sheet(s)* (Sheet #)
1	Rain Tank(s) – 55 to 130 gal each		
2	Rain Tank(s) – > 130 gal min		
3	Shade Tree - min 15 gal		
4	Flow thru Planter(s)		
5	Permeable pavers / Porous concrete (min 10% open space)	<input type="checkbox"/> Incidental: _____ total SF	
		<input type="checkbox"/> Infiltration: _____ total SF	
6	Rain Garden	<input type="checkbox"/> # _____ - Lined; _____ total SF	
		<input type="checkbox"/> # _____ - Unlined; _____ total SF	
7	Dry Well		
8	SUMP Pump (modification was not required)		

**ALL OTHER DEVELOPMENT (Residential: 5 ≥ units, 10,000 ≥ SF, within a ESA and ≥2,500SF)**

Item #	Stormwater BMP	Description (Units, total)	Reference Sheet(s)* (Sheet #)	
Infiltration	1	Infiltration Basin / Trench		
	2	Dry Well		
	3	Permeable pavers / Porous concrete (min 10% open space)	<input type="checkbox"/> Incidental: _____ total SF <input type="checkbox"/> Infiltration: _____ total SF	
Capture & Use	4	Rain Tank(s) – 530 gal min		
	5	Cistern	<input type="checkbox"/> Above Grade <input checked="" type="checkbox"/> Below Grade	P6.05, P6.15
Treat & Discharge	6	Flow thru Planter(s)	(15) Planters, 228-LF cumulative length <input type="checkbox"/> # _____ - Lined; _____ total SF	C2.01, C2.02
	7	Biofiltration	<input checked="" type="checkbox"/> # 1 - Unlined; 6,000 total SF	C2.01, C2.02
	8	Vegetative Swale / Filter Strip		
	9	Catch Basin Filter(s)		
	10	Trench Drain Filter(s)		
	11	Down Spout Filter(s)		
	12	SUMP Pump (modification was not required)		

\* At a minimum: Site Plan, Architectural Elevations, Roof Plan, Civil Sheets and Detail

Quantities			
Description	Label	Quantity	Unit
LADWP	6" FW line	16.79	ft
LADWP	8" FW line	25.33	ft
LADWP	DW meters	1	Count
LADWP	FW meters	2	Count
Site Utilities	6" DW line	9.09	ft
Site Utilities	6" FW line	11.46	ft
Site Utilities	6" SS line	88.13	ft
Site Utilities	8" FW line	17.33	ft
Site Utilities	12" SD line (overflow)	11.87	ft
Site Utilities	Bubbler	1	Count
Site Utilities	FDC POC	2	Count
Site Utilities	Fire hydrants	1	Count
Site Utilities	FW isolation valve	1	Count
Site Utilities	FW POC to (E) 8" W	1	Count
Site Utilities	FW POC to Bldg	2	Count
Site Utilities	SS cleanout	2	Count
Site Utilities	SS POC to (E) 6" capped lateral	1	Count
Site Utilities	SS POC to (E) 8" capped lateral	1	Count
Site Utilities	SS POC to Bldg	3	Count

PEDIATRIC RESEARCH CENTER

ALDEN DRIVE

(E) NORTH TOWER

GRACIE ALLEN DRIVE

WEST TOWER

(E) SOUTH TOWER

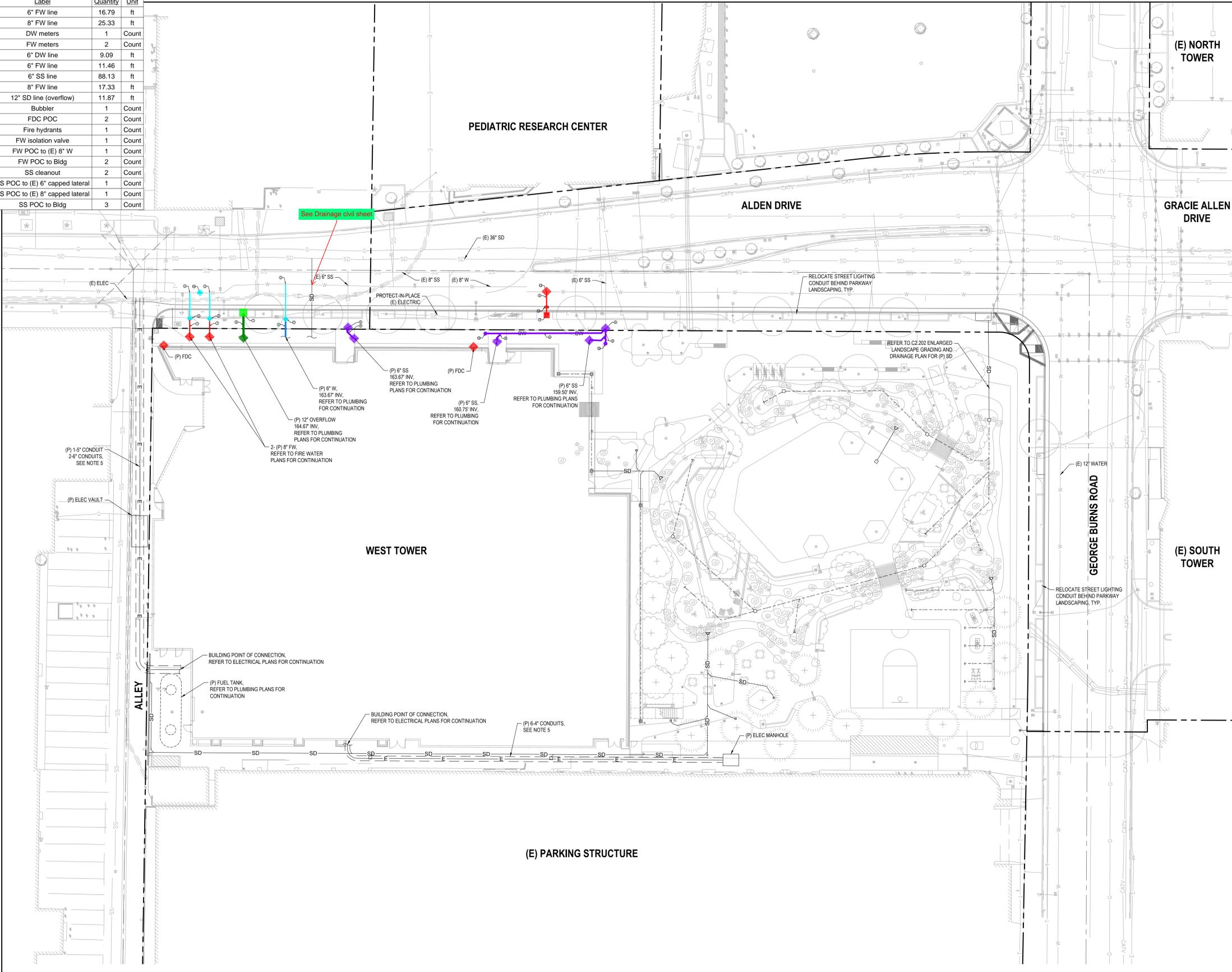
(E) PARKING STRUCTURE

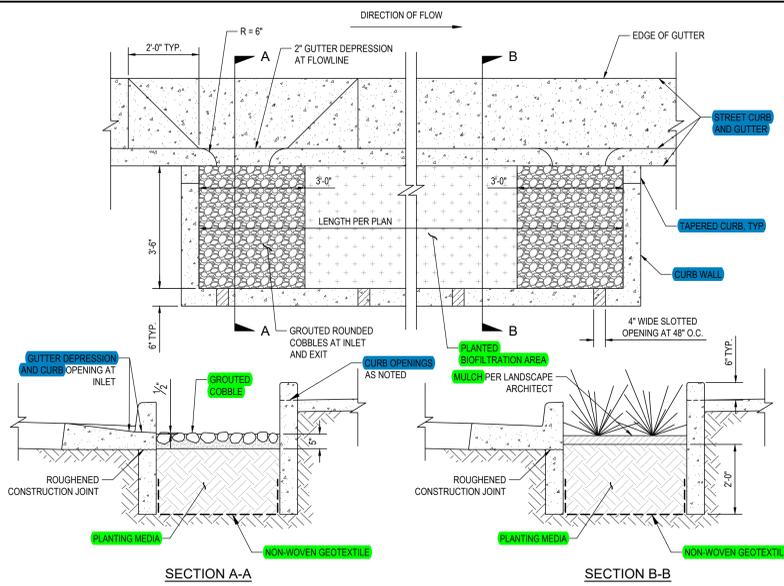
- GENERAL NOTES:**
- EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL VERIFY LOCATION, DEPTH, SIZE, AND TYPE OF ALL PERTINENT UTILITY CONNECTION POINTS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE SHOULD EXISTING CONDITIONS NECESSITATE DESIGN AMENDMENTS.
  - REFER TO UTILITIES AND STORM AND SANITARY NOTES ON SHEET C0.01.
  - REFER TO DETAIL 2/C5.01 FOR UTILITY TRENCHING.
  - ALL ELECTRICAL CONDUITS, DUCTBANKS, AND MANHOLES SHALL BE INSTALLED PER LADWP PLANS, DETAILS, AND SPECIFICATIONS. UNDERGROUND ROUTING IS SHOWN FOR REFERENCE ONLY.

- CONSTRUCTION NOTES:**
- INSTALL 8" DIP FIRE WATER LATERAL.
  - INSTALLATION OF WATER METER BY LADWP. SHOWN FOR COORDINATION PURPOSES.
  - CONNECTION OF (P) 6" FW TO (E) 8" W BY LADWP. SHOWN FOR COORDINATION PURPOSES.
  - INSTALL 6" DIP WATER LATERAL.
  - CONNECTION OF (P) 6" W TO (E) 8" W BY LADWP. SHOWN FOR COORDINATION PURPOSES.
  - INSTALL 12" SDR 35 PVC OVERFLOW PIPE.
  - INSTALL BUBBLER.
  - INSTALL 6" SDR 35 PVC SANITARY SEWER LATERAL.
  - CONNECT (P) 6" SS TO (E) 6" SS LATERAL.
  - CLEANOUT PER DETAIL 4/C5.01.
  - INSTALL FIRE HYDRANT PER DETAIL 3/C5.01.
  - INSTALL ISOLATION VALVE PER DETAIL 3/C5.01.
  - CONNECT (P) 6" FW TO (E) 8" W.
  - ISOLATION VALVE ON (E) 8" W BY LADWP. SHOWN FOR COORDINATION PURPOSES.

**LEGEND:**

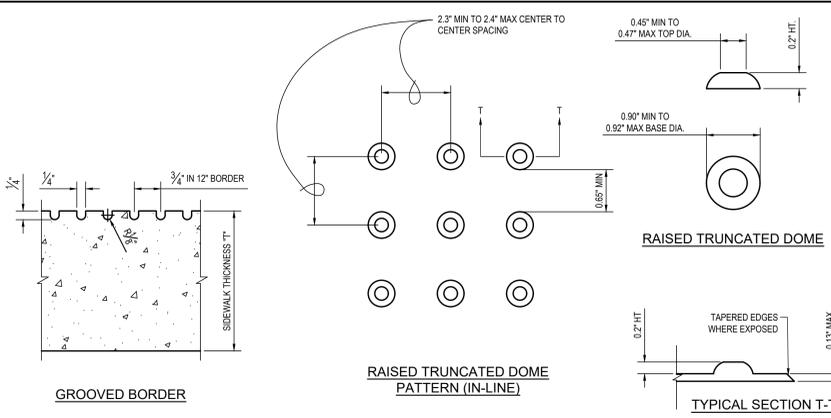
———	PROPERTY LINE
——— SS	(P) SANITARY SEWER LINE
——— W	(P) DOMESTIC WATER LINE
——— FW	(P) FIREWATER LINE
——— SD	(P) STORM DRAIN LINE
———	(P) PERFORATED PIPE
——— E	(P) ELECTRICAL LINE
——— SS	(E) SANITARY SEWER LINE
——— T	(E) TELECOMMS
——— W	(E) DOMESTIC WATER LINE
——— FW	(E) FIREWATER LINE
——— SD	(E) STORM DRAIN LINE
——— E	(E) ELECTRICAL LINE
——— G	(E) GAS LINE





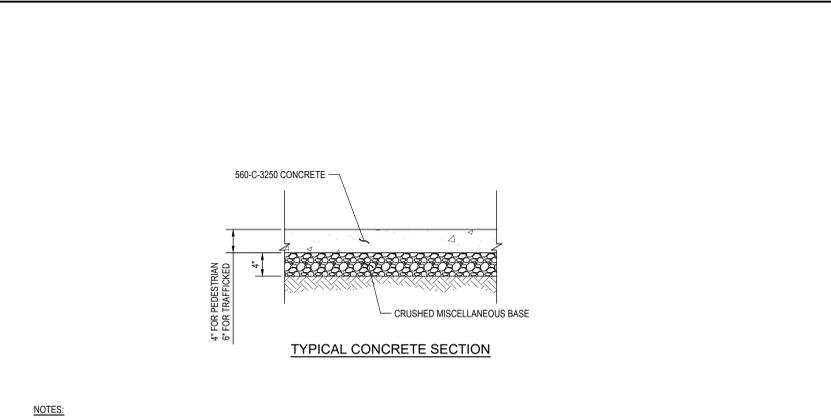
**NOTES:**

1. PLANTING MEDIA SHALL HAVE A MINIMUM LONG-TERM, IN-PLACE INFILTRATION RATE OF 5 INCHES PER HOUR BUT SHALL NOT EXCEED 12 INCHES PER HOUR. IT SHALL BE A MIX OF SAND AND ORGANIC MATERIAL COMPLYING WITH THE SPECIFICATIONS OF BIO-1 IN APPENDIX E OF THE LOS ANGELES COUNTY LID MANUAL. MATERIAL SUBMITTAL SHALL INCLUDE CERTIFICATION OF INFILTRATION RATE.
2. GEOTEXTILE SHALL MEET THE SPECIFICATIONS OF CITY OF LOS ANGELES STANDARD PLAN S-480-D.
3. CURBS AND CURB WALLS SHALL COMPLY WITH THE REQUIREMENTS OF DETAIL 11C5.00.
4. CURB WALLS SHALL BE POURED MONOLITHIC. JOINTS SHALL BE SEALED PER SSPWC 303-1.8.7.
5. CURB WALLS TO HAVE 3/4" RADIUS ROUNDED CORNERS AT TOP EDGES.
6. CEMENT GROUT SHALL BE COMPOSED OF ONE PART CEMENT, THREE PARTS SAND AND THE MINIMUM AMOUNT OF WATER NECESSARY FOR THE MIXTURE TO FLOW UNDER ITS OWN WEIGHT.
7. COBBLE STONES TO BE ROUNDED AND 2" TO 4" IN DIAMETER AND SHALL BE EMBEDDED 1" MIN. INTO 2" THICK CEMENT GROUT.



**NOTES:**

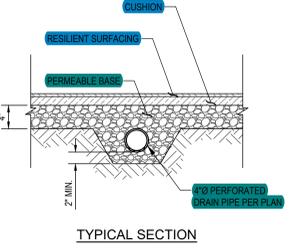
1. CURB RAMP DIMENSION VARIABLES SHOWN ON PLANS AND DETAILS SHALL REFER TO CITY OF LOS ANGELES STD PLAN S-422.6 UNO
2. FINAL SURFACE OF CURB RAMP WITHIN THE GROOVED BORDER SHALL BE DONE BY HAND WITH A WOOD FLOAT AND SHALL BE GIVEN A ROTARY SURFACE TEXTURE.
3. A 1/2" WIDE GROOVED BORDER SHALL BE PROVIDED AT THE TOP OF ALL CURB RAMP. THE SURFACE OF THE GROOVED BORDER SHALL HAVE A FINE HAIR BROOMED FINISH.
4. A DETECTABLE WARNING SURFACE (DWS) SHALL BE PROVIDED ON EACH CURB RAMP AND AT OTHER LOCATIONS SHOWN ON PLANS WHERE PEDESTRIAN PATHS JOIN VEHICULAR AREAS.
5. THE DWS COLOR SHALL CONFORM TO FEDERAL STANDARD 595C COLOR NUMBER 3338 (YELLOW) AND SHALL BE INTEGRAL WITH THE DWS. SURFACE COATINGS SUCH AS PAINT SHALL NOT BE ALLOWED TO BE APPLIED ON THE DWS.
6. THE TRUNCATED DOMES OF THE DWS SHALL BE PART OF A PREFABRICATED PANEL UNLESS NOTED OTHERWISE THE DWS SHALL HAVE AN IN-LINE PATTERN. WHERE INSTALLED IN A RADIAL PATTERN, TRUNCATED DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 2.3 INCHES MINIMUM TO 2.4 INCHES MAXIMUM AND A BASE TO BASE SPACING OF 0.65 INCHES MINIMUM.
7. WHEN A DWS EDGE IS CUT AND THE RESULTING EDGE IS NOT FLUSH WITH THE SURFACE OF THE ADJACENT PAVEMENT, THE EDGE SHALL BE BEVELED AT A SLOPE NOT STEEPER THAN 2 (HORIZONTAL) : 1 (VERTICAL) AND ALL REMAINING PARTIALLY CUT RAISED TRUNCATED DOMES SHALL BE GROUND FLUSH WITH THE DETECTABLE WARNING SURFACE.



**NOTES:**

1. REFER TO GENERAL NOTES SHEET FOR CONCRETE NOTES.
2. CONCRETE CLASS SHALL CONFORM TO GREENBOOK SECTION 201-1.1.2.
3. CMB SHALL COMPLY WITH SECTION 200-2.4. PLACEMENT SHALL CONFORM TO GREENBOOK SECTION 301-2.
4. SUBGRADE PREPARATION SHALL CONFORM TO THE DIVISION 31 PROJECT SPECIFICATIONS.
5. MAXIMUM CONTROL JOINT SPACING FOR SIDEWALK SHALL BE 8 FEET. CONCRETE PANELS SHALL BE AS NEAR TO SQUARE AS POSSIBLE AND SHALL NOT EXCEED 1.25:1 (LENGTH:WIDTH OR VICE VERSA). IF PANEL SHAPE OR SIZE DOES NOT COMPLY WITH THESE REQUIREMENTS, PROVIDE WELDED WIRE REINFORCEMENT (WWR) SHALL BE 4X4-W4@XW4.0 AND SHALL BE PLACED WITH 1.5" CLEAR COVER TO TOP OF SLAB. ALIGN JOINTS WITH TOPPING SLAB JOINTS AT JOIN CONDITIONS WHERE POSSIBLE.
6. CONTROL JOINTS FOR DRIVEWAYS SHALL BE INSTALLED ALONG BOTH SIDES OF APPROACH APRON AND AT APPROXIMATELY 10 FEET INTERVALS WITHIN THE DRIVEWAY. WHERE THE DISTANCE BETWEEN THE SIDES OF THE DRIVEWAY APPROACH APRON DOES NOT EXCEED 15 FEET, INTERMEDIATE CONTROL JOINT IS OPTIONAL.
7. PROVIDE (2) #5 BARS AT ALL SLAB OPENINGS AND RE-ENTRANT CORNERS. BARS SHALL EXTEND 2'-0" MIN. BEYOND CORNER BUT SHALL NOT EXTEND ACROSS ANY JOINT. WHERE BAR LENGTH WOULD OTHERWISE CONFLICT WITH SLAB EDGE OR JOINT, BEND OR HOOK BAR TO PROVIDE MINIMUM CLEAR COVER.
8. PROVIDE ISOLATION JOINT AT ALL INTERFACES WITH RIGID ELEMENTS SUCH AS MAINTENANCE HOLES, BUILDING SLABS, EQUIPMENT PADS, ETC.

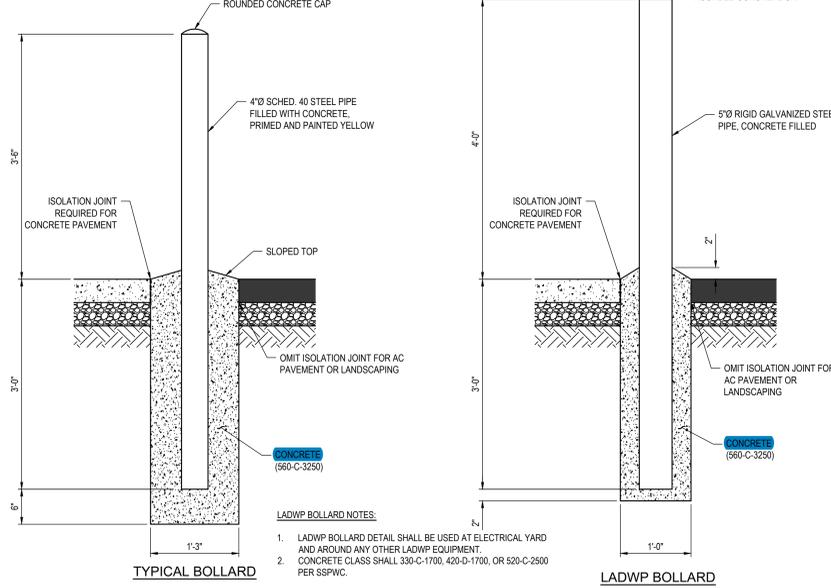
**9 BIOFILTRATION SWALE**  
SCALE: NTS



**NOTES:**

1. REFER TO LANDSCAPE PLANS FOR RESILIENT SURFACING AND CUSHION LAYER.
2. FILTER FABRIC ABOVE PERMEABLE BASE, IF REQUIRED BY MANUFACTURER, SHALL BE NON-WOVEN GEOTEXTILE.
3. PERMEABLE BASE SHALL BE UNIFORM 3/4" WASHED GRAVEL.

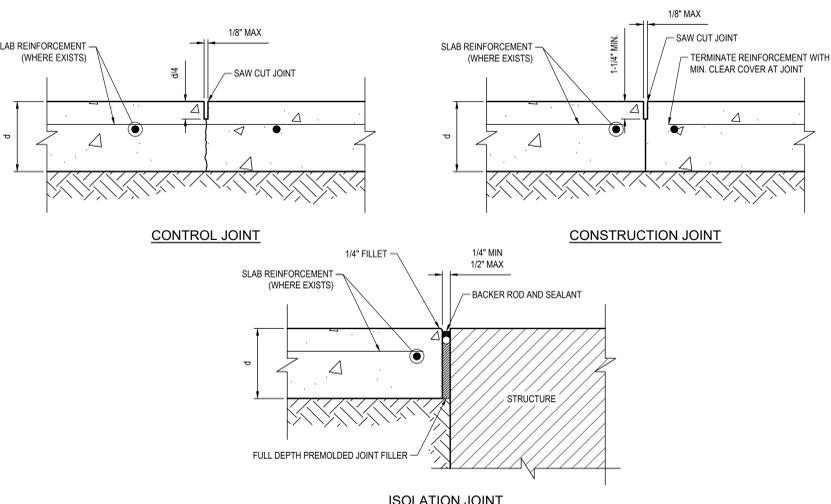
**6 CURB RAMPS**  
SCALE: NTS



**LADWP BOLLARD NOTES:**

1. LADWP BOLLARD DETAIL SHALL BE USED AT ELECTRICAL YARD AND AROUND ANY OTHER LADWP EQUIPMENT.
2. CONCRETE CLASS SHALL 330-C-1700, 420-D-1700, OR 520-C-2500 PER SSPWC.

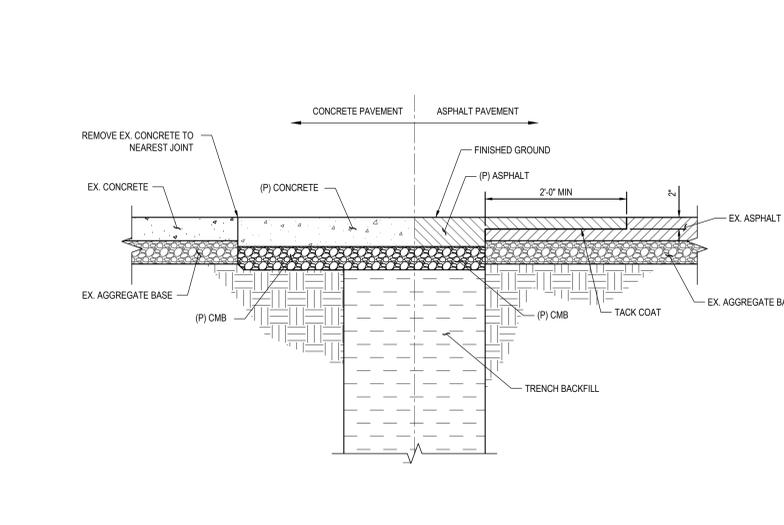
**3 CONCRETE PAVEMENT**  
SCALE: NTS



**NOTES:**

1. SAW CUTS SHALL OCCUR AS SOON AS THE CONCRETE HAS HARDENED ENOUGH TO SUPPORT THE SAW BUT IN NO CASE SHALL BE MORE THAN 24 HOURS AFTER SLAB IS POURED. IF EARLY ENTRY SAWS ARE USED, THE DEPTH OF SAW CUT SHALL BE THE GREATER OF 1" OR 0.6" SAW CUTTING SHALL NOT DAMAGE REINFORCEMENT.
2. THE CONTRACTOR SHALL HAVE THE OPTION TO USE A GROOVING TOOL OR PREMOLDED FILLER STRIP IN LIEU OF SAW CUTTING TO FORM CONTROL JOINTS.
3. WHERE NEW CONCRETE JOINS EXISTING, JOINT SPACING SHALL BE ALIGNED WITH EXISTING.
4. CONSTRUCTION JOINTS SHALL OCCUR AT PLANNED CONTROL JOINTS.

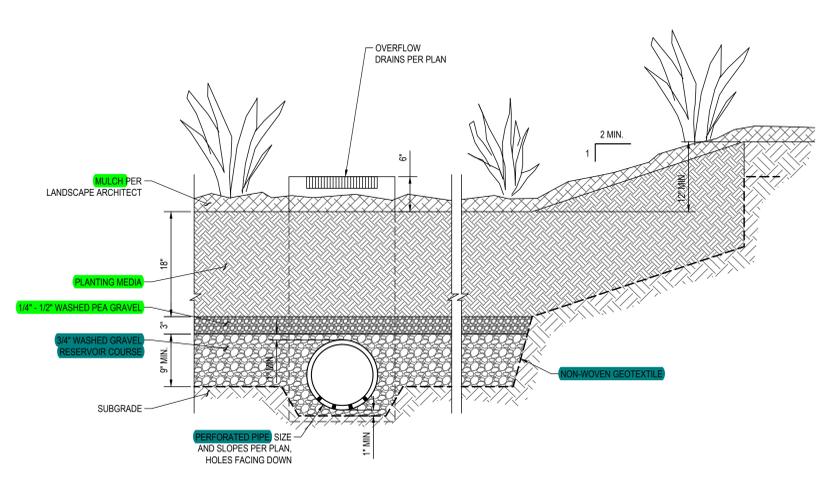
**8 RESILIENT SURFACING**  
SCALE: NTS



**NOTES:**

1. CONCRETE CLASS SHALL BE 560-C-3250. THICKNESS SHALL BE 1" GREATER THAN THE EXISTING CONCRETE THICKNESS.
2. NEW ASPHALT THICKNESS SHALL BE 1" GREATER THAN THE EXISTING ASPHALT THICKNESS.
3. BASE COURSE THICKNESS SHALL BE THE GREATER OF 4" AND THE EXISTING BASE COURSE THICKNESS.

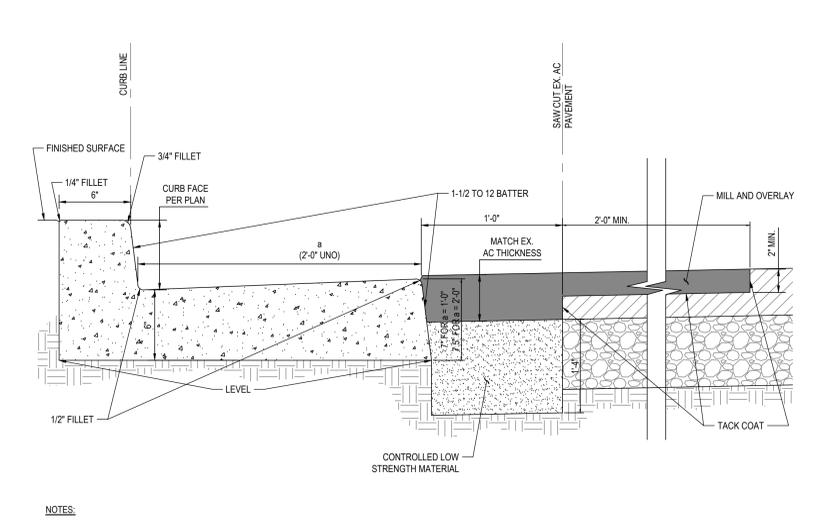
**5 BOLLARD**  
SCALE: 1" = 1'-0"



**NOTES:**

1. PLANTING MEDIA SHALL HAVE A MINIMUM LONG-TERM, IN-PLACE INFILTRATION RATE OF 5 INCHES PER HOUR BUT SHALL NOT EXCEED 12 INCHES PER HOUR. IT SHALL BE A MIX OF SAND AND ORGANIC MATERIAL COMPLYING WITH THE SPECIFICATIONS OF BIO-1 IN APPENDIX E OF THE LOS ANGELES COUNTY LID MANUAL. MATERIAL SUBMITTAL SHALL INCLUDE CERTIFICATION OF INFILTRATION RATE.
2. GEOTEXTILE SHALL MEET THE SPECIFICATIONS OF CITY OF LOS ANGELES STANDARD PLAN S-480-D.
3. REFER TO LANDSCAPE PLANS FOR PLACEMENT OF BOLLARDS, COBBLES, ETC. LANDSCAPE ARCHITECT SHALL APPROVE PLACEMENT OF ALL BOLLARDS.
4. EROSION CONTROL MEASURES, SUCH AS COBBLE RIP RAP, SHALL BE PROVIDED AT ALL PIPE OUTLETS INTO THE BIOFILTRATION BASIN. REFER TO LANDSCAPE PLANS FOR DETAILS.

**2 CONCRETE JOINTS**  
SCALE: NTS



**NOTES:**

1. CONCRETE FOR CURBS SHALL BE 520-C-2500.
2. TRANSVERSE JOINTS SHALL BE PROVIDED AT ALL BC/EC POINTS AND WITHIN 3'-0" OF ALL CORNERS. BETWEEN RETURNS THEY SHALL BE AT REGULAR SPACING NOT EXCEEDING 15'-0". ALIGN WITH ADJACENT SIDEWALK JOINTS WHERE PRACTICABLE.
3. ASPHALT SHALL BE C2-PG 64-10.

**7 TRENCH RESURFACING**  
SCALE: 1" = 1'-0"

**4 BIOFILTRATION BASIN**  
SCALE: 1" = 1'-0"

**1 CONCRETE CURB AND GUTTER**  
SCALE: 1" = 6"

