NOTE
CUT PANEL AND PANEL SIZE CONFIGURATION SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY.
(SEE SHEET 3 FOR PANEL SIZES AND PANEL CUT LIMITS.)

PLAN - GENERAL

PLAN - GENERAL (ALT)

NOT TO SCALE
PLAN - RESIDENTIAL WITH PLANTED PARKWAY

NOTE
CUT PANEL AND PANEL SIZE CONFIGURATION SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY.
(SEE SHEET 3 FOR PANEL SIZES AND PANEL CUT LIMITS.)

STANDARD PLAN NO.  S-490-0  VAULT INDEX NUMBER  B-4771  SHEET 2 OF 8 SHEETS
TABLE No. 1

<table>
<thead>
<tr>
<th>TYPICAL SIZES</th>
<th>MINIMUM LIFTING POINTS</th>
<th>EDGE DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>X</td>
</tr>
<tr>
<td>5'</td>
<td>4'-6'</td>
<td>W/4</td>
</tr>
<tr>
<td>2'</td>
<td>2'-6'</td>
<td>W/2</td>
</tr>
<tr>
<td>1'-6&quot;</td>
<td>2'-6'</td>
<td>W/2</td>
</tr>
</tbody>
</table>

NOTES:
1. PRECAST PERVIOUS CONCRETE PANEL DENSITY SHALL NOT EXCEED 130 LB/CF.
2. LIFTING POINTS SHALL BE SYMMETRICAL PLACED WITHIN THE PANEL.
3. THE MINIMUM LIFTING WORKING CAPACITY OF EACH ANCHOR SHALL BE 2.5 TIMES ITS TRIBUTARY PANEL WEIGHT.
4. ONLY 5'X4' PANELS SHALL BE PERMITTED ALONG ALLEY WAYS.

PLAN - PANELS WITH OPTIONAL CUTS
(VERIFY PANEL SIZE SELECTED CAN ACCOMMODATE CUTS)
TABLE No.1

<table>
<thead>
<tr>
<th>Layer</th>
<th>Material</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PRECAST PERVIOUS CONCRETE PANEL TYP.</td>
<td>PARKWAY</td>
</tr>
<tr>
<td>A</td>
<td></td>
<td>6&quot;</td>
</tr>
<tr>
<td>B</td>
<td>BEDDING/LEVELING COURSE (ASTM No.8). SEE NOTE 4 HEREON BELOW.</td>
<td>2&quot;</td>
</tr>
<tr>
<td>C</td>
<td>AGGREGATE BASE COURSE (ASTM No.6).</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>

NOTES:
1. AGGREGATE SHALL BE OPEN- GRADED (WASHED) AND CONFORMING TO ASTM D488.
2. THICKER GRAVEL RESERVOIR MAY BE PERMITTED, PROVIDED LONG-TERM STABILITY OF ADJACENT STREET AND ROADWAY ELEMENTS, INCLUDING ABUTTING STRUCTURES, CAN BE ASSURED TO THE SATISFACTION OF THE ENGINEER.
3. SUBGRADE SLOPE TO MATCH STREET & SIDEWALK GRADES (SEE NOTE 15).
4. SEE PRODUCT APPROVAL FOR BEDDING/LEVELING COURSE COMPACTION REQUIREMENTS.

SECTION A - TYPICAL
SEE TABLE No.1

SECTION B
(ALT 1)

SECTION B
(ALT 2)

SECTION C
(ALT1)

SECTION C
(ALT 2)

NOT TO SCALE
JOINT DETAIL 1

VAULT/BOX
CAST IN PLACE
CONCRETE
COLLAR
PANEL CUT
ON-SITE
4" MIN.
TYP.

IMPERMEABLE LINER
(TRIM AS SHOWN)

ADJACENT CONCRETE
EDGER/ COLLAR

BACKER ROD
PRECAST PERVIOUS
CONC. PANEL

No.4 WASHED
AGGREGATE
JOINT FILLER

NOTE:
FOR CASES WHERE VAULT
SIZE CANNOT ACCOMODATE
ALLOWABLE PANEL CUTS
OR AVAILABLE SIZES.

SEE NOTE 5

STREET CURB
SIDEWALK
2 PLY
BUILDING PAPER ALL AROUND
BOX & BACK OF CURB
(BOND BREAKER)

SECTION H

PERMANENT LIFTING POINT
IMPERMEABLE LINER

4" MIN.
TYP.

TYP. PRECAST
PERVIOUS CONC. PANEL

GRATE AND FRAME/LID
#4 REBAR, 2" (MIN.)
COVER, ALL SIDES
8" DEEP
REINF.
CONCRETE COLLAR
CONC. MANHOLE/ VAULT/CATCH BASIN

SEE SECTION "A"

DETAIL 2

IMPERMEABLE LINER
(TRIM FLUSH WITH
ADJACENT SURFACE)

3/8" MAX ALONG
SIDEWALKS

1/8" MAX

PRECAST PERVIOUS
CONC. PANEL

JOINT DETAIL 2

DETAIL 3

(ALT 1)

H S-6

4" MIN.

VAULT/BOX

PANEL CUT LINE

CAST IN PLACE
CONCRETE COLLAR

2 PLY BUILDING PAPER ALL AROUND BOX & BACK OF CURB (BOND BREAKER)

IMPERMEABLE LINER (TRIM AS SHOWN)

SIDEWALK

IMPERMEABLE LINER

4" MIN.
TYP.

NO.4 WASHED
AGGREGATE

PERMABOND LINER

SEE NOTE 5

STREET CURB

CAST IN PLACE
CONCRETE COLLAR

4" MIN.

JOINT DETAIL 4

NOTE:
FOR CASES WHERE VAULT SIZE CANNOT ACCOMODATE ALLOWABLE PANEL CUTS OR AVAILABLE SIZES.
NEW OR EXISTING CONCRETE OR AC PAVEMENT

6" UNIFORM CAST-IN-PLACE CONCRETE EDGER (ALL AROUND)

PRECAST PERVIOUS CONC. PANEL, TYP.
IMPERMEABLE LINER WITH A 4-IN RETURN

SOIL SUBGRADE

5"X4" PRECAST PERVIOUS CONCRETE PANEL TYP. (MIN CUT SIZE 5'X2')

FOR TRANSITION & DRAINAGE DETAILS SEE PROJECT PLANS

PROPERTY LINE

ALLEY PLAN
NEW OR EXISTING PAVEMENT

ALLEY C OR PANEL 1

4 FT FULL PANEL WIDTH
(1/2 PANEL SHOWN)

PRECAST PERVIOUS CONC. PANEL, TYP.

NEW OR EXISTING CONCRETE OR AC PAVEMENT

6" UNIFORM CAST-IN-PLACE CONCRETE EDGER (ALL AROUND)

IMPERMEABLE LINER WITH A 4-IN RETURN

EXTEND LINER 4IN ALL AROUND

SEE SECTION "A"

TYPICAL SECTION J
AT CONCRETE EDGER

NOT TO SCALE

STANDARD PLAN NO. S-490-0
VAULT INDEX NUMBER B-4771
SHEET 7 OF 8 SHEETS
NOTES

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) ADOPTED BY THE BOARD OF PUBLIC WORKS AS AMENDED BY THE LATEST CORRESPONDING CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BROWN BOOK.

GENERAL NOTES:


2. ALL SITES SHALL CONFORM WITH SITE AND SOIL CONDITIONS AS WELL AS CLEARANCE REQUIREMENTS AS SPECIFIED IN S-480 OR AS REQUIRED BY LOCAL AUTHORIZED AGENCIES WHICHEVER IS MORE RESTRICTIVE.

3. PRE-APPROVAL OF THE USE OF PRECAST PERVIOUS CONCRETE PANELS INTENDED TO MEET LOW IMPACT DEVELOPMENT (LID) REQUIREMENTS SHALL BE OBTAINED FROM THE BUREAU OF SANITATION WATERSHED PROTECTION DIVISION. WHERE TREES EXIST OR ARE BEING PROPOSED OR EXISTING SHALLOW TREE ROOTS OCCUR WITHIN THE PARKWAY, PRE-APPROVAL SHALL BE REQUIRED FROM THE BUREAU OF STREET SERVICES (BSS), URBAN FORESTRY DIVISION (1149 SOUTH BROADWAY, SUITE 400 LOS ANGELES, CA 90015 - (800) 996-2489) TO SECURE CLEARANCE AND OBTAIN SET-BACK AND/OR PRUNING REQUIREMENTS.

4. ALL MATERIALS AND INSTALLATIONS SHALL BE PROVIDED WITH SITE SPECIFIC PANELS LAYOUT AND DETAILS, PRODUCT DATA, GEOTECHNICAL INVESTIGATION, UTILITY RELOCATION AND/OR PROTECTION PLAN, MAINTENANCE AND OPERATION PLANS, FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. EXISTING BOUNDARIES OF PERVIOUS PANELS SUCH AS CURB & GUTTER AND SIDEWALK MUST BE IN GOOD CONDITION AND FREE OF DISCONTINUOUS SLOPES DUE TO SETTLEMENTS OR UPLIFTING.

5. CONCRETE EDGERS, COLLARS, PANEL BANDS AND FILLER SHALL HAVE CONTROL JOINTS SPACED AT 15'-0" ON CENTER. CONCRETE USED SHALL BE CLASS 520-C-2500.

6. ONLY PANELS MATERIALS AND PRODUCTS APPROVED IN ACCORDANCE WITH S-601 AND S-480 MAY BE IMPLEMENTED IN THE PARKWAY AS SPECIFIED HEREIN. STAGGER PANEL JOINTS (RUNNING BOND PATTERN) TO THE EXTENT POSSIBLE. SEE SHEET 3 FOR TYPICAL PANEL DIMENSIONS, NUMBER OF ANCHORS REQUIRED, AND PERMISSIBLE CUT LOCATIONS.

7. COMPACT SUBGRADE TO 95% OF MAXIMUM DENSITY PER STANDARD PROCTOR TEST (ASTM D557) OR PER GEOTECHNICAL RECOMMENDATIONS. AFTER COMPACTION, SCARIFY SUBGRADE 1/4 IN TO 1/2 IN DEEP. AGGREGATE BASE LAYER, EXCEPT THE BEDDING/ LEVELING LAYER, SHALL BE COMPACTED IN MAXIMUM 6 INCH THICK LiftS WITH A 1 TO 3 TONS SMOOTH, SINGLE OR DOUBLE DRUM ROLLER. FOUR COMPLETE COVERAGEs IS REQUIRED FOR EACH LIFT AND SHALL BE MADE WITH TWO PASSES IN TWO PERPENDICULAR DIRECTIONS IN VIBRATORY MODE FOLLOWED BY TWO PASSES IN TWO PERPENDICULAR DIRECTIONS IN STATIC MODE. IN AREAS TOO SMALL TO PERMIT THE USE OF DRUM ROLLER A MINIMUM 13,500 LBF PLATE COMPACTOR SHALL BE USED.

8. WELL DRAINING SOILS SHALL HAVE A MINIMUM SITE SOIL INFILTRATION RATE OF 1/2 INCH PER HOUR AND THE PANEL AGGREGATE BASE SHALL FULLY DRAIN WITHIN 24 HOURS. IF ADDITIONAL RESERVOIR IS PROVIDED, IT SHOULD FULLY DRAIN WITHIN 48 HOURS. POOR DRAINING SOILS ARE THOSE WITH AN INFILTRATION RATE BETWEEN 1/4 TO 1/2 INCH PER HOUR. PANEL INSTALLATION IS NOT PERMITTED WHERE INFILTRATION RATE IS BELOW 0.25 FOR RESIDENTIAL INSTALLATIONS, SIMPLIFIED TESTING OF SOIL PERMEABILITY IS PERMITTED AS FOLLOWS: DIG A HOLE 1 FT WIDE BY 1 FT DEEP. COMPACT AGGREGATE BASE LAYER, EXCEPT THE EXPOSED BEDDING/ LEVELING LAYER, SHALL BE COMPACTED IN MAXIMUM 6 INCH THICK LiftS WITH A 1 TO 3 TONS SMOOTH, SINGLE OR DOUBLE DRUM ROLLER. FOUR COMPLETE COVERAGEs IS REQUIRED FOR EACH LIFT AND SHALL BE MADE WITH TWO PASSES IN TWO PERPENDICULAR DIRECTIONS IN VIBRATORY MODE FOLLOWED BY TWO PASSES IN TWO PERPENDICULAR DIRECTIONS IN STATIC MODE. IN AREAS TOO SMALL TO PERMIT THE USE OF DRUM ROLLER A MINIMUM 13,500 LBF PLATE COMPACTOR SHALL BE USED.

9. BOTTOM OF AGGREGATE LAYER SHALL BE AT LEAST 10 FEET ABOVE THE SEASONAL HIGH WATER TABLE PER S-480 OR 2 FEET ABOVE BEDROCK, AS DETERMINED BY THE GEOTECHNICAL INVESTIGATION.

10. IMPERMEABLE LINERS AND GEOTEXTILES SHALL CONFORM TO STANDARD PLAN S-480.

11. PANEL LAYOUT SHALL BE UNIFORM IN ALIGNMENT, GAP WIDTH, CONFIGURATION, AND APPROVED UNIFORM COLOR. THERE SHALL BE NO ISOLATED LOW SPOT, MISALIGNMENT, ERRANT GAPS, BROKEN OR CRACKED PANELS. THE FINISHED SURFACE SHALL NEITHER HAVE VERTICAL UNEVENESS NOR A HORIZONTAL JOINT VARIATION GREATER THAN 1/8 INCH OVER A 10 FEET DISTANCE ANY DIRECTIONS.

12. 18" DEEP ROOT CONTROL BARRIER SHALL BE 10 FT LONG OR LENGTH OF TREE WELL ON SIDEWALK SIDE PER STD. PLAN S-456. ON THE REMAINING PERIMETER OF TREE WELL, PROVIDE 18 INCH DEEP ROOT CONTROL BARRIER AND FOLD IN AS SHOWN IN PLAN VIEW.

13. PRECAST PERVIOUS CONCRETE PANELS MAY BE CUT PER DETAILS SHOWN ON SHEET 3 IN ORDER TO ACCOMODATE APPURTENANCES, SUCH AS VAULTS, TREEWEEVS, AND LIGHT POLES. PANELS SHALL ONLY BE CUT WITH A DIAMOND BLADE MASONRY SAW.

14. BUREAU OF ENGINEERING

15. FOR INfiltrATION AND DRAINAGE PURPOSES, PERVIOUS CONCRETE PANELS SHALL BE PLACED SO AS THE TOP SURFACE ACHIEVE A MINIMUM CONTINUOUS CROSS SLOPE OF 1% AND MAXIMUM OF 2% RESPECTIVELY. PERMEABLE PAVERS SHALL NOT BE CONSTRUCTED IN LOCATIONS WHERE THE LONGITUDINAL STREET SLOPE IS GREATER THAN FIVE (5) PERCENT.

16. ALL CONCRETE EDGERS, COLLARS, PAVER BANDS AND FILLER SHALL HAVE A CONTINUOUS SLOPE WITH ADJACENT SURFACES TO AVOID ANY DIVERSION OF FLOW.

17. PROVIDE EROSION CONTROL MEASURES ADJACENT TO SIDEWALKS TO PROTECT THE PERVIOUS PANELS AREA FROM SEDIMENTATION BUILD-UP. SIDEWALK WIDTH TO PARKAWAY WIDTH RATIO SHALL NOT EXCEED 3:1.

18. CONVENIENCE STRIP IS REQUIRED WHEN ON-STREET PARKING IS PERMITTED AND TREE WELLS/ VEGETATED PARKWAY EXCEED 6 FEET IN LENGTH.

19. UPON COMPLETION OF INSTALLATION, PERVIOUS PANELS SURFACE INFILTRATION RATE SHALL BE TESTED PER ASTM C1781 AT ANY LOCATION WITHIN THE PANELS AS DETERMINED BY THE ENGINEER. THE MINIMUM INFILTRATION RATE SHALL BE 100 INCHES PER HOUR.

20. NO TRAFFIC SIGN, PARKING METER, BUS SHELTER, AND OTHER INSTALLATIONS SHALL BE DIRECTLY INSTALLED OVER THE PANEL.

21. PROVIDE A MINIMUM CLEAR UNOBSTRUCTED 4 FT WIDE HOUSE WALK FROM CURB FACE TO SIDEWALK SPACED AT 50 FEET ON CENTER PER THE RESIDENTIAL PARKWAY LANDSCAPING GUIDELINES.