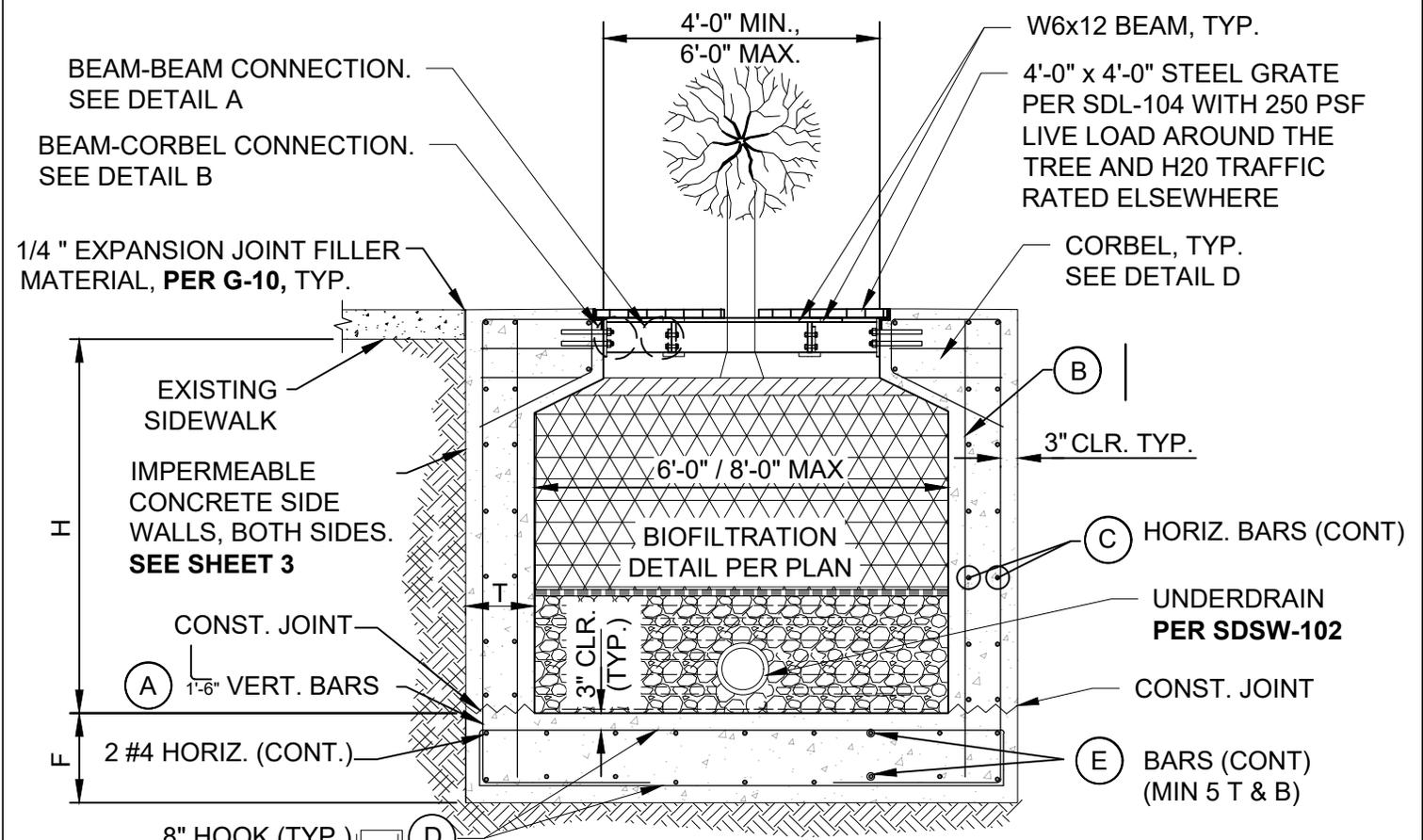


PLAN VIEW



SECTION A - A

SHEET 1 OF 6

REVISION	BY	APPROVED	DATE
ORIGINAL	RC	R. AMEN	02/26

CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

SUSPENDED TREE GRATE

Alaine James 2/18/2026
COORDINATOR R.C.E. 81047 DATE

DRAWING NUMBER **SDSW-130**

MATERIAL PROPERTIES

CONCRETE: $f_c = 4,000$ PSI MINIMUM (660-CW-4000)
REINFORCING STEEL: $F_y = 60$ KSI
BOLTS AND FASTENERS: ASTM F3125 A325
EPOXY ANCHORS ASTM F1554 Gr. 55
STRUCTURAL STEEL: $F_y = 50$ KSI

SOIL PROPERTIES

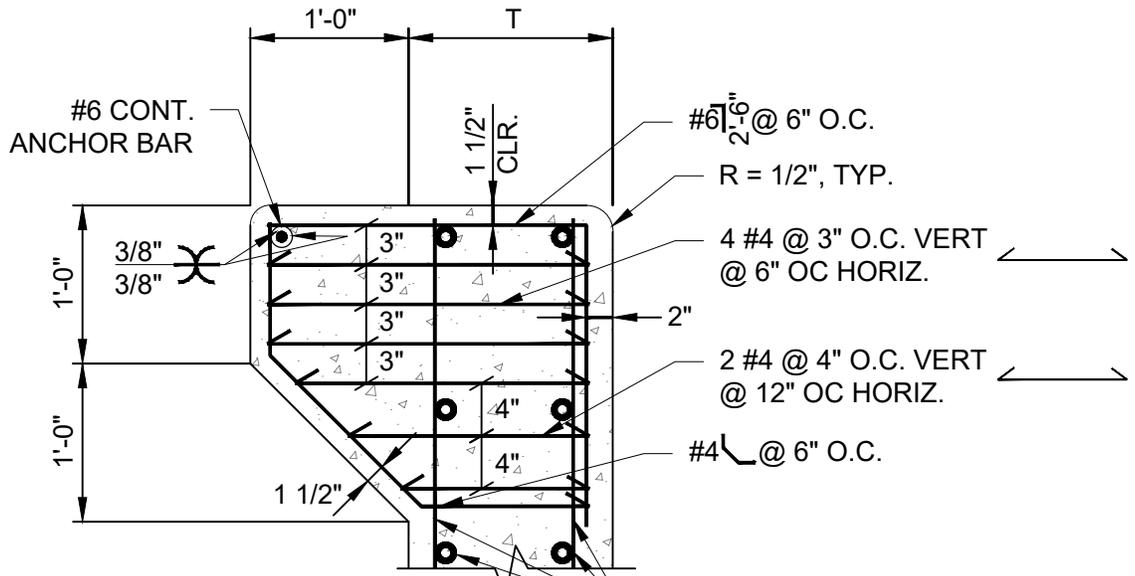
ALLOWABLE BEARING PRESSURE = 2000 PSF
AT REST EARTH PRESSURE = 66 PSF/FT
PASSIVE EARTH PRESSURE = 320 PSF/FT
LIVE LOAD SURCHARGE = 90 PSF (UNIFORM)
FRICTION COEFFICIENT = 0.35
GROUNDWATER TABLE BELOW MAT FOUNDATION
OTHERWISE SPECIAL DESIGN REQUIRED

NOTES

1. DESIGN OF STORMWATER INFRASTRUCTURE SHALL CONFORM TO THE STORMWATER STANDARDS MANUAL AND DRAINAGE DESIGN MANUAL, AND SHALL BE SUBJECT TO REVIEW. USE OF THIS DETAIL DOES NOT PRECLUDE SUCH REQUIREMENTS.
2. MINIMUM OPEN TREE PLANTING SPACE DIMENSION 4'-0" x 4'-0".
3. MINIMUM SPACING BETWEEN TREE WELLS IS 20' ON CENTER.
4. STREET SLOPE MUST BE LESS THAN 5% FOR TREE WELL TO BE USED.
5. PROVIDE 18" DEEP ROOT BARRIER ON STREET SIDE OF TREE WELL AS NECESSARY.
6. PROVIDE PVC LINER WHERE CONCRETE WILL BE PLACED ON TOP OF STRUCTURAL SOIL PER STANDARD SPECIFICATION.
7. STRUCTURAL SOIL TO BE C4-STRUCTURAL SOIL OR EQUIVALENT.
8. IF THE DETAIL IS USED FOR PERMIT COMPLIANCE, A CONCRETE LINER & BIORETENTION SOIL MEDIA SHALL BE USED.
9. GRATING BEAMS AND ANCHORAGE HAVE BEEN DESIGNED FOR H2O VEHICLE LOADING. AND A GRATE WEIGHING 20 PSF. HEAVIER LOADING WILL REQUIRE SPECIAL DESIGN

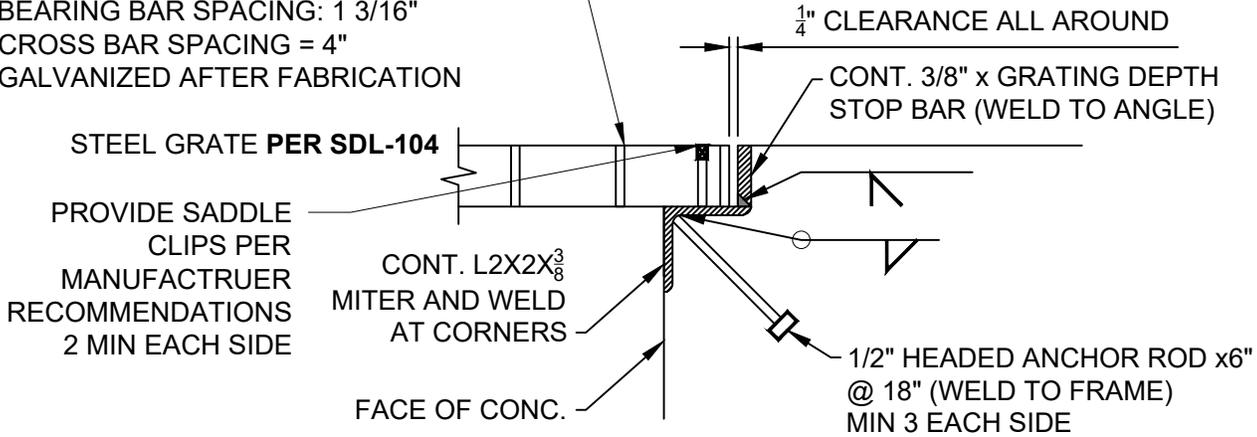
SHEET 2 OF 6

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	RC	R. AMEN	02/26		<i>Alaine James 2/18/2026</i> COORDINATOR R.C.E. 81047 DATE
				SUSPENDED TREE GRATE	DRAWING NUMBER SDSW-130



**CORBEL DETAIL
DETAIL D**

HEAVY DUTY WELDED RECTANGULAR
BAR GRATING
BEARING BAR HEIGHT: 1 3/4"
BEARING BAR THICKNESS: 1/4"
BEARING BAR SPACING: 1 3/16"
CROSS BAR SPACING = 4"
GALVANIZED AFTER FABRICATION



**DETAIL E
GRATING SEAT CONNECTION**

DIMENSIONS AND REINFORCING SCHEDULE			
HEAVY TRAFFIC LOADING 90 PSF			
HEIGHT H (MAX)	3'-0"	5'-0"	7'-0"
THICKNESS T (MIN)	0'-10"	0'-10"	1'-0"
THICKNESS F (MIN)	1'-4"	1'-4"	1'-4"
(A) BARS	#4 @ 6"	#5 @ 7"	#5 @ 7"
(B) BARS	#4 @ 12"	#4 @ 12"	#4 @ 7"
(C) BARS	#4 @ 12" EF	#4 @ 12" EF	#4 @ 12" EF
(D) BARS	#5 @ 8"	#5 @ 8"	#5 @ 6"
(E) BARS	#4 @ 12" T&B	#4 @ 12" T&B	#4 @ 12" T&B
MAX. SOIL PRESSURE	1910 PSF	1870 PSF	1990 PSF

SHEET 3 OF 6

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CITY OF SAN DIEGO – STANDARD DRAWING

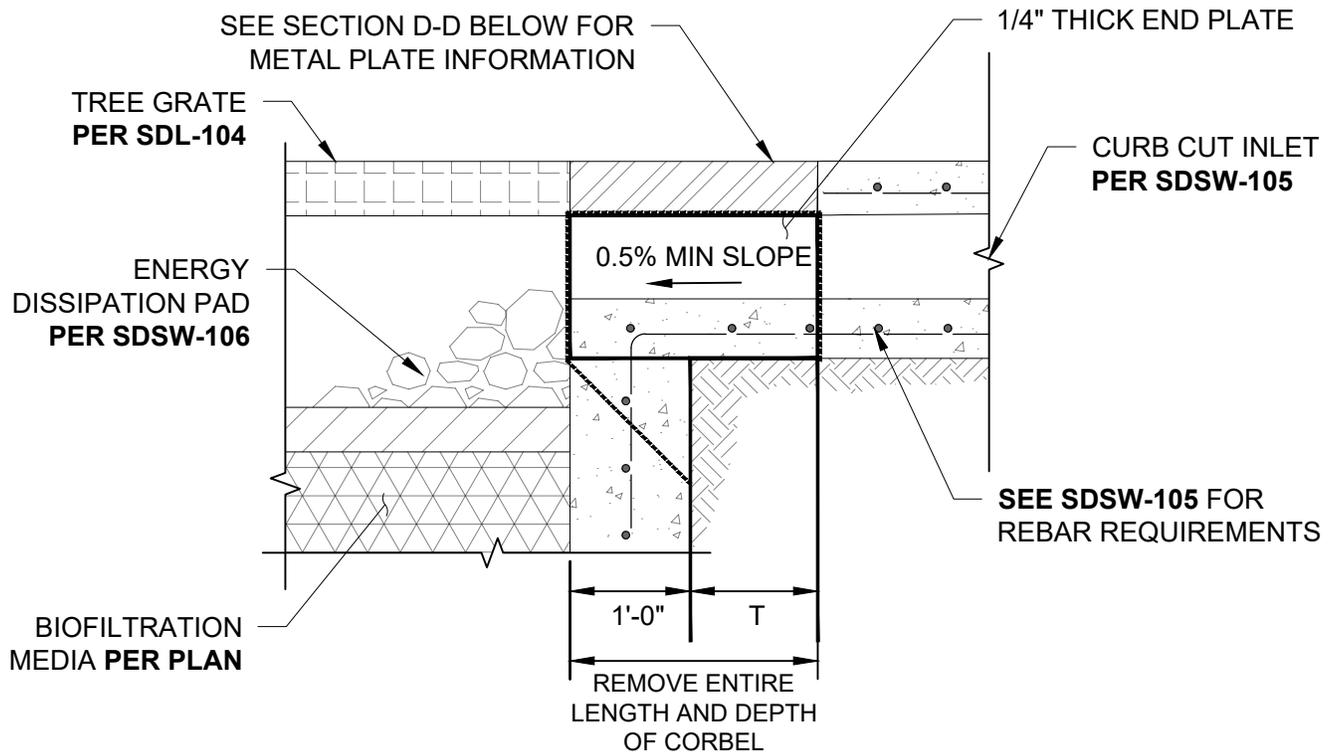
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SUSPENDED TREE GRATE

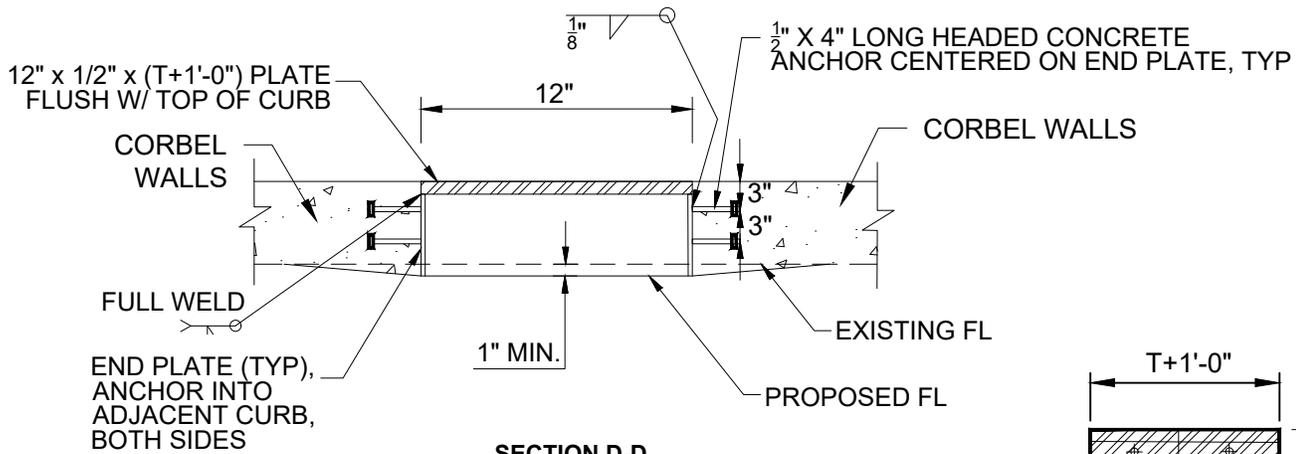
Alaine James 2/18/2026
COORDINATOR R.C.E. 81047 DATE

DRAWING
NUMBER

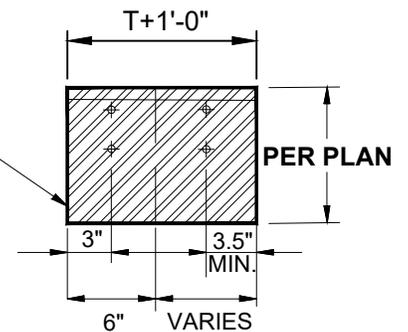
SDSW-130



**SECTION C-C
CURB CUT INLET DETAIL**



**SECTION D-D
METAL PLATE DETAIL**



END PLATE ELEVATION

REVISION	BY	APPROVED	DATE
ORIGINAL	RC	R. AMEN	02/26

CITY OF SAN DIEGO – STANDARD DRAWING

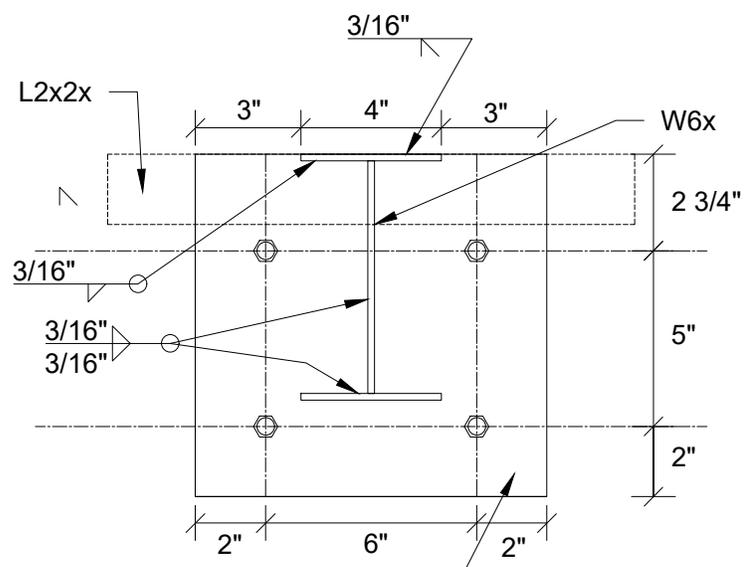
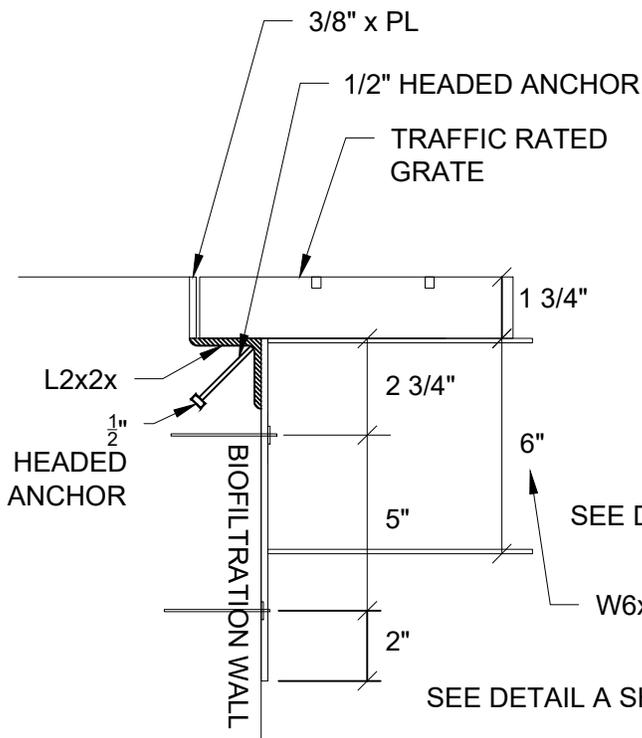
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Alaine James 2/18/2026
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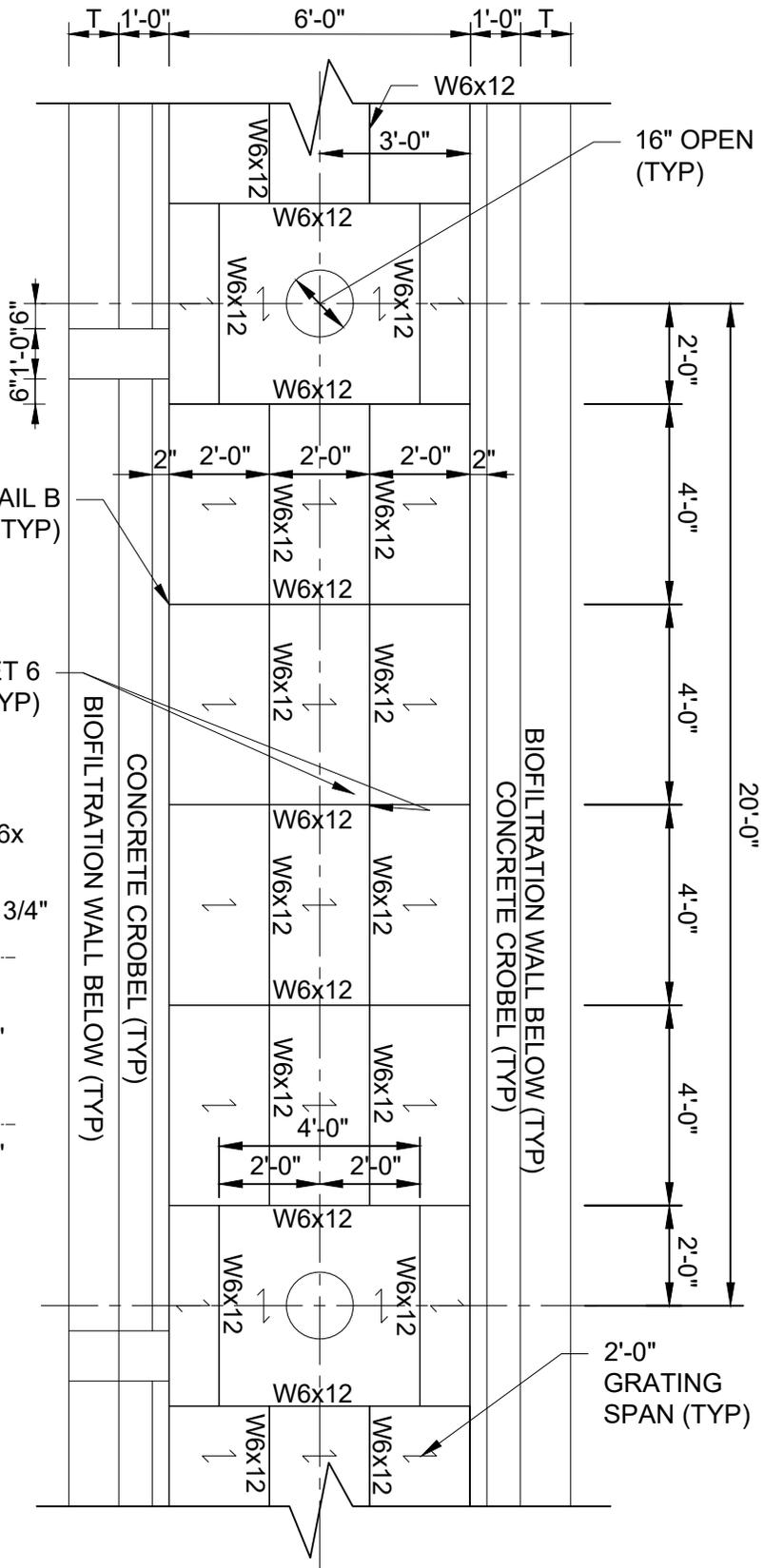
DRAWING NUMBER

SDSW-130



1/2" PL Fy=50ksi W/ 4-3/4" DIA
 ASTM F1554 Gr 55 SIMPSON
 STRONG TIE SET 3G
 MIN 12" EMBEDMENT

**DETAIL B
 BEAM-CORBEL CONNECTION**



SHEET 5 OF 6

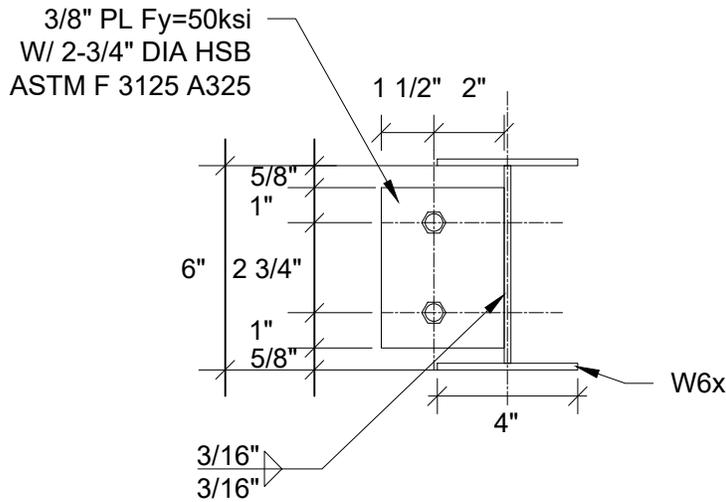
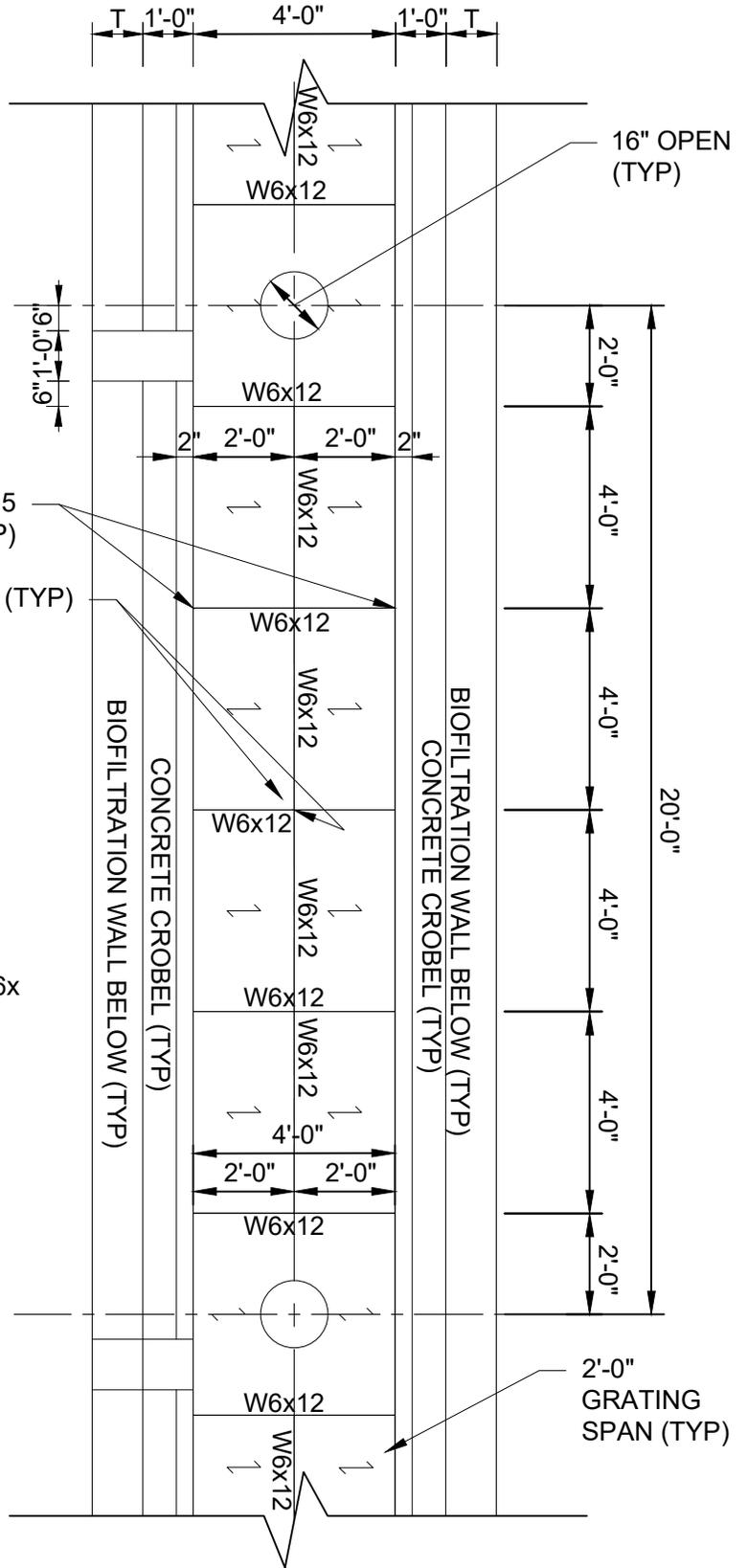
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CITY OF SAN DIEGO – STANDARD DRAWING

RECOMMENDED BY THE CITY
 OF SAN DIEGO STANDARDS COMMITTEE
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SUSPENDED TREE GRATE

DRAWING NUMBER **SDSW-130**



DETAIL A
BEAM-BEAM CONNECTION
 SEE DETAIL B (SHEET 5)

SEE DETAIL B SHEET 5 (TYP)

SEE DETAIL A (TYP)

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CITY OF SAN DIEGO – STANDARD DRAWING

SUSPENDED TREE GRATE

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

Alaine James 2/18/2026
 COORDINATOR R.C.E. 81047 DATE

DRAWING NUMBER **SDSW-130**