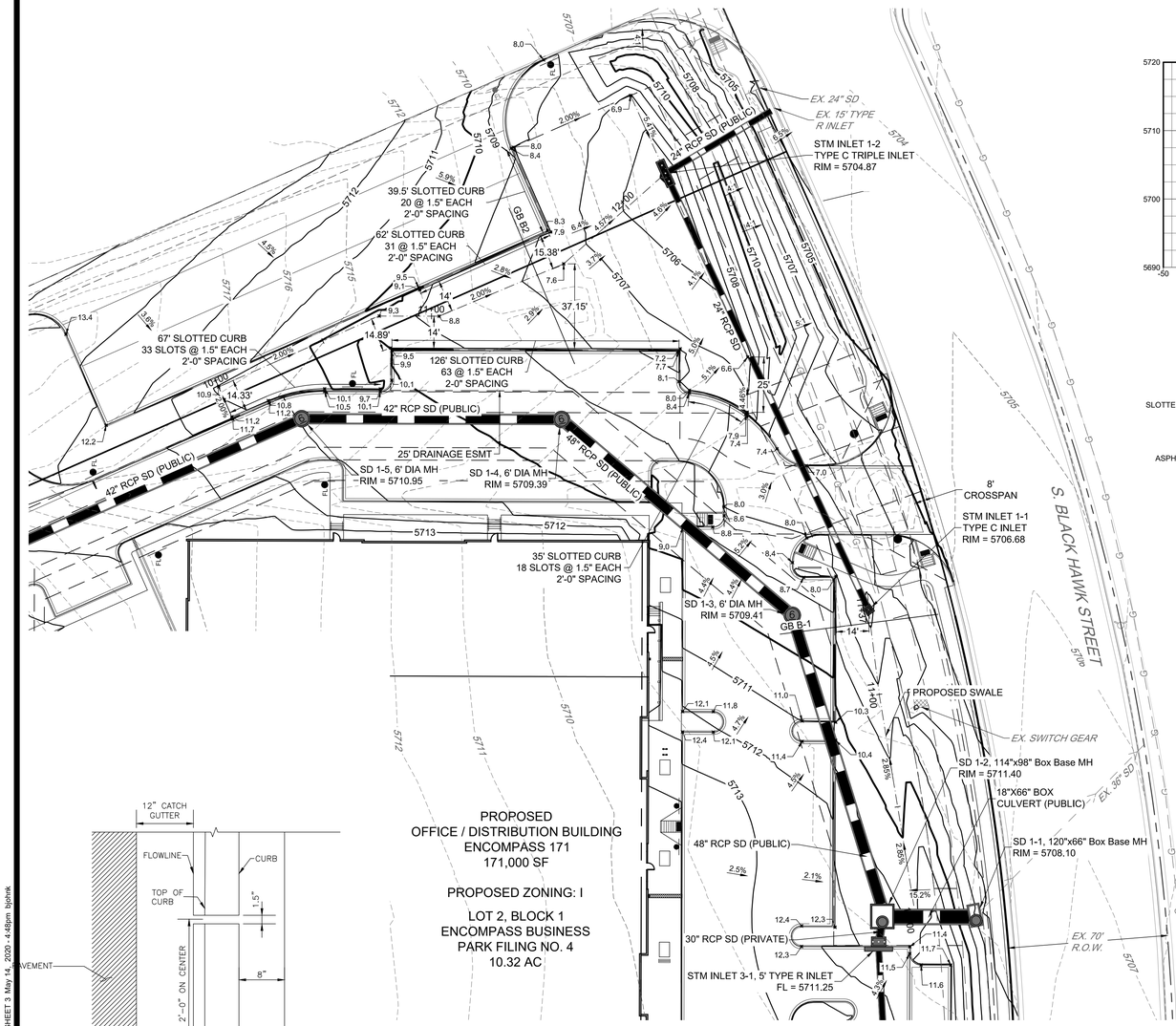
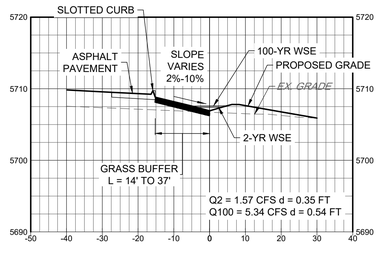
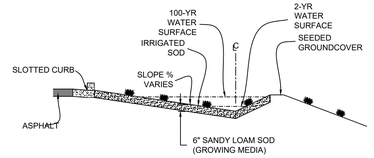


SWALE AREA DETAIL
SCALE: 1" = 30'

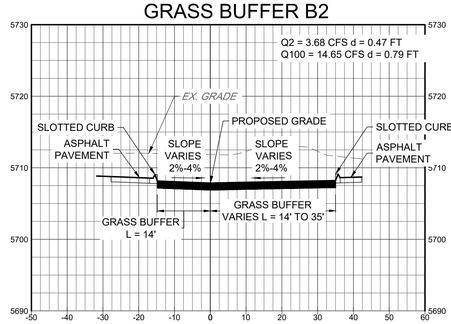
GRASS BUFFER B1

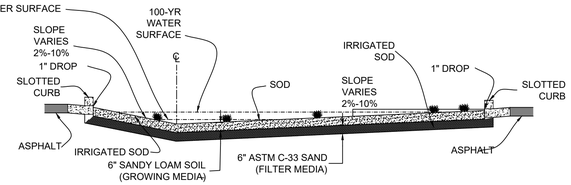




WATER QUALITY BUFFER TYPICAL SECTION (B1)
N.T.S.

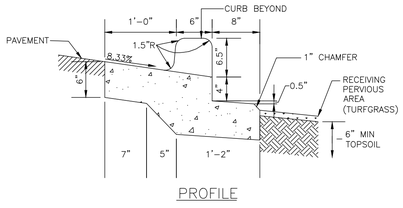
GRASS BUFFER B2





NOTES:
1. IRRIGATION HEADS WILL NOT BE PLACED BELOW THE 2-YEAR SURFACE ELEVATION.
2. SEE CALCULATIONS TO SHOW CAPACITY. ENTIRE SYSTEM IS PART OF WATER QUALITY SYSTEM.

WATER QUALITY BUFFER TYPICAL SECTION (B2)
N.T.S.



MHFD SLOTTED CURB DETAIL

LEGEND

GRASS BUFFER AREA B1 = 3,572 SF
GRASS BUFFER AREA B2 = 11,241 SF
TOTAL GRASS BUFFER AREA = 14,813 SF

NOTES:

1. IRRIGATION SYSTEMS SHALL BE INSTALLED IN CONJUNCTION WITH THE FINISHED GRADING OF GRASS BUFFER. IF IRRIGATION INSTALLATIONS WILL LAG, BUFFER SHALL BE RESTORED TO ORIGINAL CONDITION FOLLOWING INSTALLATION. DISTURBED LAYERS OF GRANULAR MATERIAL, GEOTEXTILES, EROSION CONTROL BLANKETS, ETC SHALL BE RESTORED.
2. IRRIGATION HEADS SHALL NOT BE PLACED IN FILTER MEDIA AREA OR BELOW THE 2-YR WATER SURFACE ELEVATION OF THE SWALE.
3. VEGETATION SHALL BE IRRIGATED SOD
4. EROSION CONTROL BLANKET IS REQUIRED ON NATIVE GRASS BUFFERS FOR ESTABLISHMENT OF GRASS COVER. BLANKET SELECTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE SEMSWA GESC MANUAL.
5. FERTILIZERS SHALL NOT BE APPLIED WHEN HEAVY PRECIPITATION IS ANTICIPATED. APPLICATION SHALL BE IN ACCORDANCE WITH THE SITE'S STANDARD OPERATION PROCEDURES AND THE MANUFACTURER'S RECOMMENDATIONS.

SANDY LOAM

SANDY LOAM SHALL CONSIST OF NATIVE TOPSOIL (SURFACE O- AND A-HORIZONS HAVING MAXIMUM ROOT MASS, ORGANIC MATTER, AND BIOLOGICAL ACTIVITY) STRIPPED FROM GRASSY AREAS OF THE SITE OR A NEARBY SITE AND SHALL MEET THE FOLLOWING PROPERTIES:

ORGANIC MATTER: 2.0% OR GREATER

SOIL TEXTURE: SANDY LOAM OR SANDY CLAY LOAM MEETING THE FOLLOWING COMPONENT RANGES:

SAND OR COARSER	50 - 80 %
SILT	5 - 40 %
CLAY	5 - 25 %
COARSE PARTICLES > 2MM	0 - 20 %

SALTS, SALINITY (ELECTRICAL CONDUCTIVITY, EC): 0 TO 2 MILLI-MHOS PER CENTIMETER (MMHOS/CM) OR DECI-SIEMENS PER METER (DS/M) (MMHOS/CM ARE EQUIVALENT TO DS/M)

SODIUM (SODIUM ADSORPTION RATIO, SAR): 0 TO 4

ACIDITY, ALKALINITY (PH): 6.5 TO 7.5

TO DETERMINE ADEQUACY OF SANDY LOAM, AT LEAST THREE REPRESENTATIVE SAMPLES OF THE NATIVE TOPSOIL SHALL RECEIVE A TEXTURAL ANALYSIS AND STANDARD AGRONOMIC TEST BY A QUALIFIED SOIL LAB. IF ORGANIC MATTER OR PH IS OUTSIDE OF THE SPECIFIED RANGE, AMENDMENTS MAY BE RECOMMENDED FOR REVIEW AND APPROVAL OF SEMSWA. ANY RECOMMENDATION FOR AMENDMENTS SHALL INCLUDE DOCUMENTATION OF AMENDMENT PROPERTIES, RATE OF APPLICATION, AND METHOD OF INCORPORATION. THE USE OF CHEMICAL FERTILIZERS OTHER THAN AN ORGANIC SLOW-RELEASE TYPE SUCH AS BIOSOL BY ROCKY MOUNTAIN BIO PRODUCTS IS NOT PERMITTED. THE USE OF ORGANIC MATTER THAT WOULD SIGNIFICANTLY INCREASE SOIL SALINITY IS NOT PERMITTED.

GRASS SWALE DESIGN CRITERIA

	MIN. SLOPE	MAX. SLOPE	MAX. 2-YEAR VELOCITY (FPS)
IRRIGATED BLUEGRASS SOD	0.5%	4.0%	4.0
IRRIGATED TURF-FORMING NATIVE GRASSES	0.5%	2.5%	3.0

CENTENNIAL CD CASE NUMBER: CD-XX-XXXXX

Redland
WHERE GREAT PLACES BEGIN
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REDLAND.COM

DRAWN	BTJ
CHECKED	DTW
APPROVED	MDC
PROJECT NO.	16004.06
HORZ. SCALE	N/A
VERT. SCALE	N/A

NO.	DATE	NOTES
1	05.13.2020	1ST CD SUBMITTAL TO INTERGROUP

ENCOMPASS BUSINESS PARK
ENCOMPASS 171

GRASS BUFFER DETAILS

SHEET
C1001