N

30 15 0 30 60

SCALE IN FEET

KEY NOTES

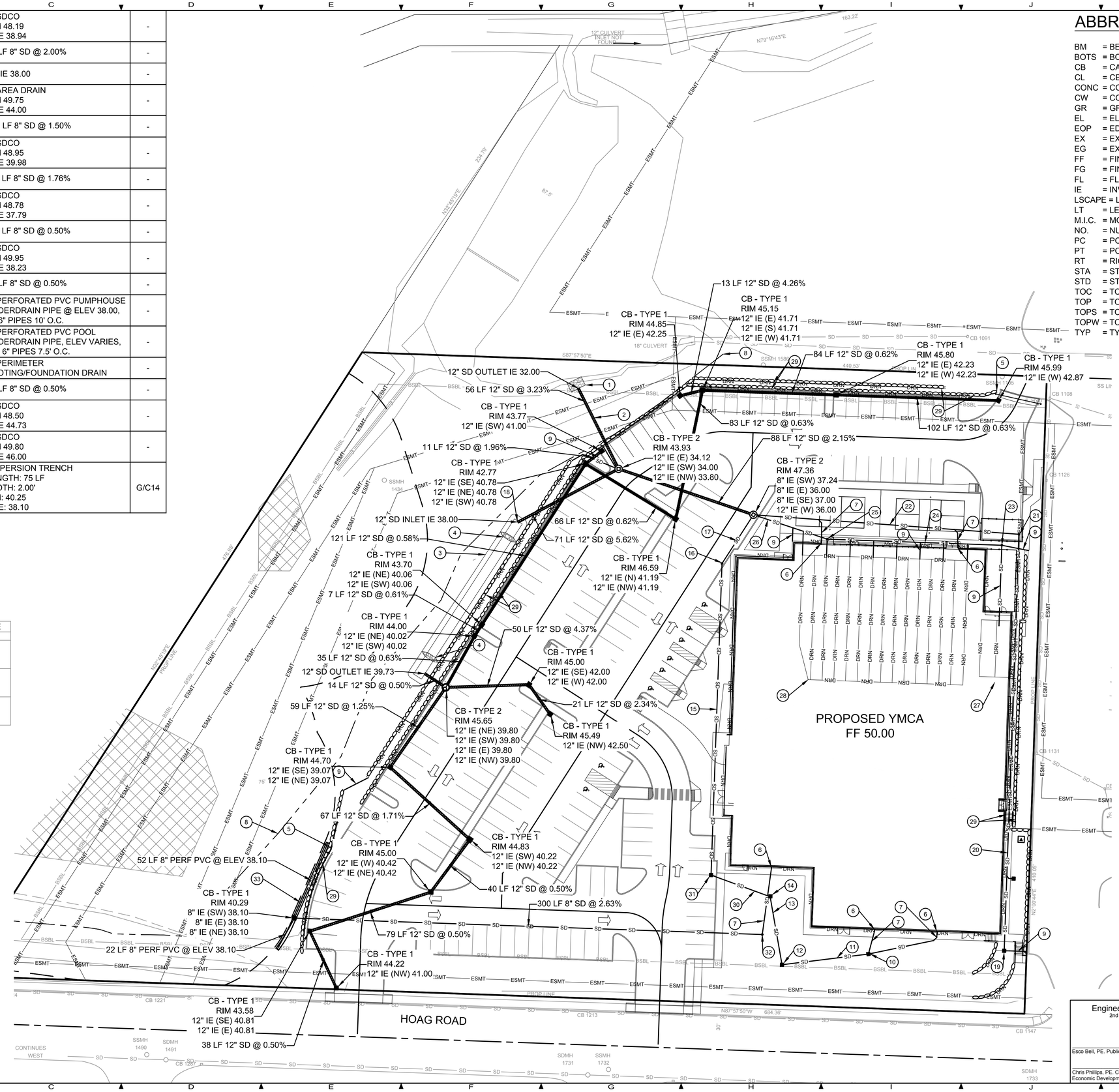
KEY	DESCRIPTION	DETAIL/ SHEET
1	10'Wx6'Lx12"D ENERGY DISSIPATING RIPRAP PAD	-
2	CONTRACTOR SHALL REPLACE & RESTORE ALL DISTURBED EXISTING LANDSCAPING	-
3	BIOFILTRATION SWALE: W/ 6" PERFORATED PVC UNDERDRAINS: LENGTH: 119 LF TOP WIDTH: 11.00' BOTTOM WIDTH: 6.00' SIDE SLOPES: 3:1 LONGITUDINAL SLOPE: 1.50%	-
4	ROCK CHECK DAM (TYP)	-
5	SITE WALL/ROCKERY MAX HEIGHT: 9.00' MIN HEIGHT: 1.00'	-
6	6" DOWNSPOUT LOCATION TBD (TYP)	-
7	6" DOWNSPOUT TIGHTLINE CONNECTION @ 2.00% MIN SLOPE & 2.00' MIN COVER	-
8	FEMA FLOOD PLAIN LIMIT ELEVATION: 36.70	-
9	6" FOUNDATION, FOOTING & UNDERDRAIN TIGHTLINE CONNECTION @ 2% MIN SLOPE & 2.00' MIN COVER	-
10	8" PLAY AREA DRAIN RIM 49.60 (1' BELOW FG) 8" IE 47.00	-
11	55 LF 8" SD @ 2.00%	-
12	8" PLAY AREA DRAIN RIM 49.75 (1' BELOW FG) 8" IE 45.90	-
13	49 LF 8" SD @ 2.00%	-
14	8" AREA DRAIN RIM 49.75 8" IE 44.92	-
15	200 LF 8" SD @ 2.90%	-
16	8" SDCO RIM 48.19 8" IE 38.94	-
17	35 LF 8" SD @ 2.00%	-
18	12" IE 38.00	-
19	8" AREA DRAIN RIM 49.75 8" IE 44.00	-
20	268 LF 8" SD @ 1.50%	-
21	8" SDCO RIM 48.95 8" IE 39.98	-
22	169 LF 8" SD @ 1.76%	-
23	8" SDCO RIM 48.78 8" IE 37.79	-
24	112 LF 8" SD @ 0.50%	-
25	8" SDCO RIM 49.95 8" IE 38.23	-
26	47 LF 8" SD @ 0.50%	-
27	6" PERFORATED PVC PUMPHOUSE UNDERDRAIN PIPE @ ELEV 38.00, 3 - 6" PIPES 10' O.C.	-
28	6" PERFORATED PVC POOL UNDERDRAIN PIPE, ELEV VARIES, 15 - 6" PIPES 7.5' O.C.	-
29	6" PERIMETER FOOTING/FOUNDATION DRAIN	-
30	39 LF 8" SD @ 0.50%	-
31	8" SDCO RIM 48.50 8" IE 44.73	-
32	8" SDCO RIM 49.80 8" IE 46.00	-
33	DISPERSION TRENCH LENGTH: 75 LF WIDTH: 2.00' RIM: 40.25 8" IE: 38.10	G/C14

EX SDCB INVERT TABLE

CB	DATA
1002	LID ELV = 64.6' 12" PVC E. IE = 57.6' 12" PVC W. IE = 57.5'
1089	LID ELV = 59.9' 6" PVC N. IE = 57.3'
1090	LID ELV = 56.4' 12" PVC E. IE = 52.3' 12" PVC NW. IE = 52.2' 6" PVC S. IE = 52.9' (E. CONNECTION UNKNOWN)
1091	LID ELV = 42.3' 8" PVC NE IE = 36.5' 8" PVC W. IE = 36.4' (NE CONNECTION UNKNOWN)
1108	LID ELV = 45.6' 12" PVC N. IE = 43.2' 12" PVC E. IE = 43.1' 12" PVC S. IE = 43.2'
1109	LID ELV = 45.2' 18" PVC E. IE = 42.3' 18" PVC W. IE = 42.3' 12" PVC S. IE = 42.7'
1126	LID ELV = 48.4' 12" PVC N. IE = 45.9' 12" PVC S. IE = 46.0'
1131	LID ELV = 54.3' 12" PVC N. IE = 51.3' 12" PVC SE. IE = 51.3'
1147	LID ELV = 60.5' 12" PVC E. IE = 57.1' 12" PVC W. IE = 57.1'
1213	LID ELV = 50.2' 12" PVC E. IE = 46.3' 12" PVC W. IE = 46.3'
1221	LID ELV = 38.9' 12" PVC E. IE = 35.0' 12" PVC W. IE = 35.0'
1228	LID ELV = 35.1' 12" PVC E. IE = 31.5' 12" PVC W. IE = 31.5' 12" PVC N. = CAPPED
1277	LID ELV = 35.0' 8" CMP N. IE = 29.7' 8" CMP S. IE = 30.2' (N. CONNECTION UNKNOWN) (S. CONNECTION UNKNOWN)
1287	LID ELV = 39.9' 8" CMP E. IE = 36.7' (E. CONNECTION UNKNOWN)
1299	LID ELV = 52.4' 8" CMP W. IE = 50.5' (W. CONNECTION UNKNOWN)
1309	LID ELV = 63.1' 8" CMP W. IE = 61.3' (W. CONNECTION UNKNOWN)
1553	LID ELV = 50.0' 12" PVC W. IE = 47.8' 6" PVC E. IE = 48.0' (E. CONNECTION UNKNOWN)

EX SDMH INVERT TABLE

CB	DATA
1491	LID ELV = 39.3' 24" CMP S. IE = 31.4' 24" CMP W. IE = 31.4' 18" CMP E. IE = 31.8'
1731	LID ELV = 50.5' 18" CMP E. IE = 44.7' 18" CMP W. IE = 44.5' 12" CMP S. IE = 44.7'
1733	LID ELV = 61.2' 18" CMP E. IE = 54.6' 18" CMP W. IE = 54.4' 12" CMP S. IE = 54.8'



ABBREVIATIONS:

BM	= BENCHMARK
BOTS	= BOTTOM OF STAIR
CB	= CATCH BASIN
CL	= CENTER LINE
CONC	= CONCRETE
CW	= CONCRETE WALK
GR	= GRADE
EL	= ELEVATION
EOP	= EDGE OF PAVEMENT
EX	= EXISTING
EG	= EXISTING GRADE
FF	= FINISHED FLOOR
FG	= FINISHED GRADE
FL	= FLOWLINE
IE	= INVERT ELEVATION
LSCAPE	= LANDSCAPING
LT	= LEFT
M.I.C.	= MONUMENT IN CASE
NO.	= NUMBER
PC	= POINT OF CURVE
PT	= POINT OF TANGENT
RT	= RIGHT
STA	= STATION
STD	= STANDARD
TOC	= TOP OF CURB
TOP	= TOP OF PAVEMENT
TOPS	= TOP OF STAIR
TOPW	= TOP OF WALL
TYP	= TYPICAL

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DANILO S. OCHOA
STATE OF WASHINGTON
DRAFT
48870
REGISTERED PROFESSIONAL ENGINEER

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OWNER: SKAGIT VALLEY FAMILY YMCA
215 EAST FULTON STREET
MOUNT VERNON, WA 98273

PROJECT: 1901 HOAG ROAD
MOUNT VERNON, WA 98273
DRAINAGE PLAN

PROJ. MANAGER:	DO
DESIGNED BY:	ND, DO, NA
DRAWN BY:	ND, NA
CHECKED BY:	DO
SCALE:	AS NOTED
DATE: 8/24/2017	REV: A
SHEET	OF 16
SHEET NUMBER	C11

Engineering Standards
2nd Edition May 2016
APPROVED BY:
Esco Bell, PE. Public Works Director — Date
Chris Phillips, PE. Community and Economic Development Director — Date

CAD FILE NUMBER: P:\CLIENTS\YMCA SKAGIT\NEW YMCA MV FACILITY\DWG\DRAWING\C11 DRAINAGE PLAN.DWG
LAST MODIFIED BY: NDAVIS - SAVE DATE: 8/24/2017 1:58 PM - SHEET SET: 215 E FULTON ST - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00 INCHES)
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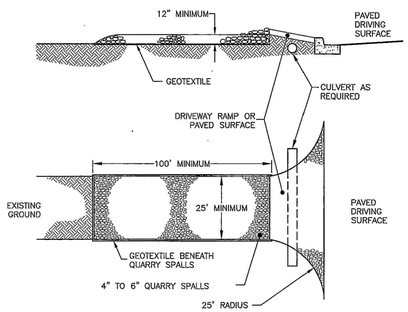


PLAN
NTS

NOTES:

1. PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE CITY.
2. PAD SHALL BE INSTALLED IN PLANTING STRIP AS APPROPRIATE.
3. PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE CITY.
4. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF THE CITY.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT (A / C04)
NTS

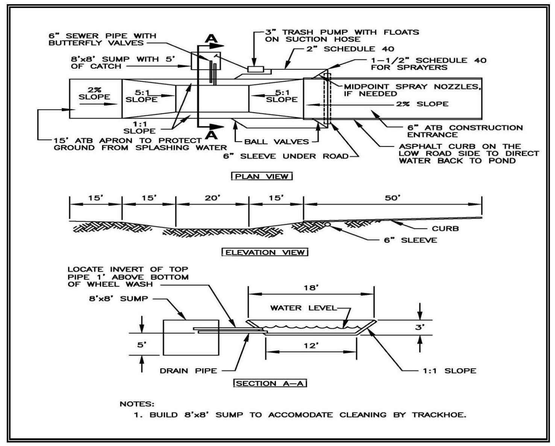
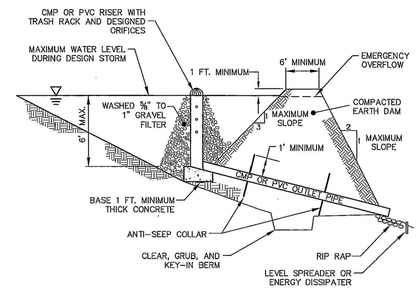


Figure 4.1.2 – Wheel Wash

Notes:

1. Asphalt construction entrance 6 in. asphalt treated base (ATB).
2. 3-inch trash pump with floats on the suction hose.
3. Midpoint spray nozzles, if needed.
4. 6-inch sewer pipe with butterfly valves. Bottom one is a drain. Locate top pipe's invert 1 foot above bottom of wheel wash.
5. 8 foot x 8 foot sump with 5 feet of catch. Build so the sump can be cleaned with a trackhoe.
6. Asphalt curb on the low road side to direct water back to pond.
7. 6-inch sleeve under road.
8. Ball valves.
9. 15 foot. ATB apron to protect ground from splashing water.

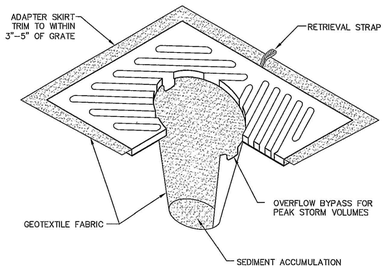
WHEEL WASH & SUMP DETAIL (B / C04)
NTS



NOTES:

1. POND WATER VOLUME SHALL BE DETERMINED IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL FOR THE PUGET SOUND BASIN.
2. SEDIMENT SHALL BE REMOVED WHEN IT FILLS HALF THE POND.
3. POND LENGTH SHALL BE 6 TIMES GREATER THAN THE WIDTH AND MAY INCORPORATE BAFFLES.
4. THE DESIGN SHALL BE PER CURRENT DOE TECHNICAL MANUAL.
5. WASHED GRAVEL FILTER MAY BE HELD IN PLACE WITH WIRE MESH.

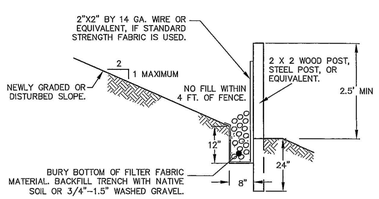
TEMPORARY SEDIMENT POND (C / C04)
NTS



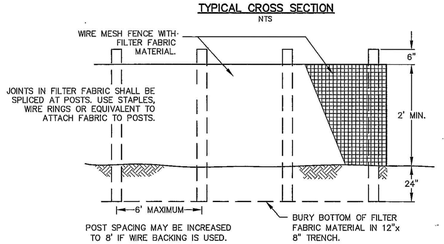
NOTES:

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

TEMPORARY CATCH BASIN INLET PROTECTION (D / C04)
NTS



TYPICAL CROSS SECTION
NTS

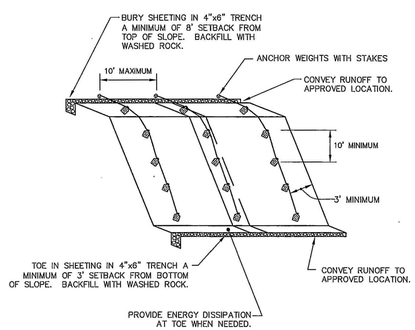


ELEVATION
NTS

NOTES:

1. FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2:1.
2. JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
3. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO WIRE FENCE.
4. REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.

REINFORCED FILTER FABRIC SILT FENCE (E / C04)
NTS



NOTES:

1. TIRES, SANDBAGS, OR EQUIVALENT MAY BE USED TO WEIGH DOWN PLASTIC SHEETING.
2. SEAMS BETWEEN SHEETS MUST OVERLAP A MINIMUM OF 12" AND BE WEIGHTED OR TAPED.
3. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MIL.
4. DUE TO RAPID RUNOFF CAUSED BY PLASTIC SHEETING, THIS METHOD SHALL NOT BE USED UPSLOPE OF AREAS THAT MIGHT BE ADVERSELY IMPACTED BY CONCENTRATED RUNOFF.
5. CONSTRUCT BERM OR SWALE AT TOP OF SLOPE AS DIRECTED BY THE CLEARING AND GRADING INSPECTOR.
6. CONSTRUCT DITCH AT BASE OF SLOPE AS REQUIRED BY CITY, AND DISCHARGE TO APPROVED LOCATION.

PLASTIC COVERING (F / C04)
NTS

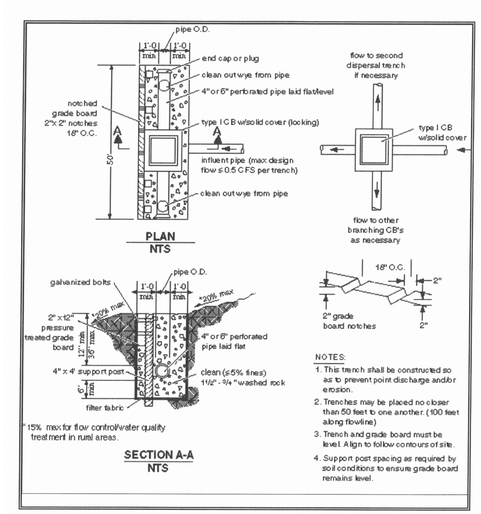


Figure 3.1.6 - Standard Dispersion Trench with Notched Grade Board

DISPERSION TRENCH W/ NOTCHED GRADE BOARD (G / C11)
NTS

NOT USED (H / C04)
NTS

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SHEET 14 OF 16	
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