**GENERAL SITE WORK NOTES**

- Ensure all present drawings are correct. Where a connect to existing structure is required, the required location and size has been reviewed by Emmons & Olivier Resources, Inc. (EOR).
- All information contained within the drawings are for EOR’s use only and may not be distributed to the customer or any third party without the written consent of EOR.
- A阿拉伯文 on the drawings indicates the number and location of the different grades in the area.
- Where the information is updated, the drawing number will be corrected.
- Use of the drawings is subject to amendment at any time, without prior notice. EOR reserves the right to change the drawings at any time.

**GENERAL UTILITY NOTES**

- Contractor shall contact KDC and/or Emmons & Olivier Resources, Inc. (EOR) for any questions regarding the drawings.
- All field measurements and survey will be done by EOR. Any discrepancy found must be reported to EOR in writing.
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**SITE SCHEDULE OF ESTIMATE QUANTITIES**

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**WASHINGTON PARK INFILTRATION GALLERY SCHEDULE OF ESTIMATE QUANTITIES**

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**LILY LAKE INFILTRATION BASIN SCHEDULE OF ESTIMATE QUANTITIES**

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**LILY LAKE FINAL 45 BMP’S**

- Stillwater, Washington County, Minnesota
- Design by Drawn by KDCDEM
- Project No. 0405-0009
- Sheet 02 of 12 Sheets
- Submission Date: 06/30/2018
- State Project No. --- City Project No. Emmons & Olivier Resources, Inc.
- Water Ecology Community
- 7030 6th Street North
- Oakdale, MN 55128
- Tele: 651.770.8448
- www.eorinc.com

- General Site Work Notes
- General Utility Notes
- Site Demolition & Removal Notes
- General Grading & Erosion Control Notes
- Contractor shall be responsible for maintaining the site during construction.
- General Landscaping Notes
- General Notes
- General Notes
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LILY LAKE

WASHINGTON PARK

LILY LAKE PARK

LILY LAKE FINAL 45 BMP’S

STILLWATER, WASHINGTON COUNTY, MINNESOTA

DESIGN BY KDCDEM

EOR PROJECT NO. 0405-0009

SUBMISSION DATE: 06/30/2018

STATE PROJECT NO. --- CITY PROJECT NO. Emmons & Olivier Resources, Inc.

7330 6th Street North
Oakdale, MN 55128

Tele: 651.770.8448

www.eorinc.com

LILY LAKE PARK

WASHINGTON PARK

LAKE ST

CHURCHILL ST W

ABOTT ST W

WILLARD ST W

ADOBE ST W

SURREY LN

ORLEANS ST W

MARSH ST W

LAKE ST

CHURCHILL ST W

ABOTT ST W

WILLARD ST W

ADOBE ST W

SURREY LN

ORLEANS ST W

MARSH ST W

SITE OVERVIEW

NOT FOR CONSTRUCTION

SHEET 03 OF 12 SHEETS

Emmons & Olivier Resources, Inc.

7330 6th Street North
Oakdale, MN 55128

Tele: 651.770.8448

www.eorinc.com

LILY LAKE FINAL 45 BMP’S

STILLWATER, WASHINGTON COUNTY, MINNESOTA

DESIGN BY KDCDEM

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Tele: 651.770.8448

www.eorinc.com
NOTES:

1. CONTRACTOR SHALL REFER TO SOIL BORING LOGS BY AMERICAN ENGINEERING TESTING FOR EXISTING SOIL CONDITIONS.
INK PROTECTION

SPECIFICATIONS

TYPE A: INLET PROTECTION TO BE UTILIZED AROUND FIELD INLETS UNTIL PERMANENT STABILIZATION METHODS HAVE BEEN ESTABLISHED.

TYPE B: INLET PROTECTION WILL BE UTILIZED ON STREET INLETS WITHOUT CURB HEADS.

TYPE C: INLET PROTECTION WILL BE UTILIZED ON STREET INLETS WITH CURB HEADS.

TYPE D: INLET PROTECTION TO BE UTILIZED AT CULVERT INLETS UNTIL PERMANENT STABILIZATION METHODS HAVE BEEN ESTABLISHED.

APPROVED PRODUCTS FOR INLET PROTECTION:

TYPE A: ALDINE PROPERTY MODEL#CG23 HIGH-FLOW FABRIC 10" FILTER ASSEMBLY OVERFLOW 2 - TOP OF CURB BOX DEFLECTOR PLATE STREAM GUARD - SEDIMENT ONLY- FOSS ENVIRONMENTAL - SEATTLE, WA STREAM GUARDEXERT - FOSS EXPERIMENTAL - SEATTLE, WA ROAD DRAIN - WIMCO, LLC-799 THEIS DRIVE, SHAKOPEE, MN

TYPE B: BAG SCREEN - ALPINE STORMWATER MGT. - GROVE CITY, OH DANDYBAG - DANDY PRODUCTS - GROVE CITY, OH ROAD DRAIN CURB AND GUTTER-WIMCO, LLC 799 THEIS DR.-SHAKOPEE, MN

TYPE C: STREAM SCREEN - ALPINE STORMWATER MGT. - GROVE CITY, OH WIMCO,LLC.SHAKOPEE, MN.

TYPE D: CONCRETE PAVEMENT (MIX 3Y32C); UNDISTURBED SUBGRADE 8" 12" MIN. (TYP.) 80% HOMOGENOUS CONSTRUCTION SAND 20% ORGANIC LEAF COMPOST INLET PROTECTION SHALL BE IN ACCORDANCE WITH MN/ DOT 3891.

INLET PROTECTION TYPE A MAY ALSO BE UTILIZED ON PAVEMENT INLETS PRIOR TO INSTALLATION OF CURB AND GUTTER OR PAVEMENT.

INLET PROTECTION WILL BE CLASSIFIED BY TYPE ACCORDING TO USE. INLET PROTECTION WILL BE UTILIZED AS INDICATED HEREIN:

1) CLEAN FILTER MEDIA AFTER EACH 1/2" OR GREATER RAIN EVENT AND REPLACE IF FILTER IS CLOGGED WITH 1-1/2" CLEAR CRUSHED ROCK REFER TO LANDSCAPE PLAN APPROVED PRODUCTS FOR INLET PROTECTION:
8" Dia PVC or CMP Skimmer/Connector. Penetrate manifold and distribution pipes at elevations shown and extend several inches into pipes. Top of pipe at manifold springline. Invert of pipe at center of end cap. 871.5 871.5 866.0 Bot of Rock 866.5 Pipe Gallery Invert 877.0 Top of Rock 24 in 120 in 12 in 0.5:1

Geotextile separator on top and sides of rock bed, MNDOT 3733 Type V

PERFORATED PIPE GALLERY. FOUR (4) 120 INCH DIA ALUMINIZED STEEL PERFORATED PIPES SPACED 96 INCHES APART, 110 LF EACH W/END CAPS AND CLEANOUTS. TWO (2) 64 LF ALUMINIZED STEEL PERFORATED MANIFOLD PIPE

1. CONTRACTOR SHALL USE 1.5 - 3 INCH OR 3/4 - 1.5 INCH WASHED, CRUSHED QUARRY OR MINE TRAP ROCK (BASALT, DIABASE, GABBRO OR OTHER RELATED IGNEOUS ROCK TYPES), QUARTZITE OR GRANITE.

2. ROCK BED SIDES AND TOP SHALL BE WRAPPED IN MNDOT 3733 TYPE V GEOTEXTILE (NOT ON BOTTOM).

3. ROCK SHALL NOT CONTAIN ANY MATERIAL SOLUBLE OR REACTIVE IN WATER (E.G., CARBONACEOUS LIMESTONE).

ROCK BED REQ'TS AA

SECTION A - A INFILTRATION BED INFILTRATION ROCK BED 36" ACCESS COVER W/ NEENAH CAST-IRON GRATE R-5901-H - RIM ELEV. TO MATCH FINISHED GRADE 36" ACCESS COVER W/ NEENAH CAST-IRON GRATE R-5901-H - RIM ELEV. TO MATCH FINISHED GRADE

BITUMASTIC RUBBERIZED SEALER MINIMUM OF 2 AND MAXIMUM OF 6 CONCRETE ADJUSTING RINGS. EACH SET IN A FULL BED OF MORTAR-GROUT ON OUTSIDE AND SCORE ON INSIDE OF RINGS NEENAH R-1733 COVER LABELED "STORM SEWER" ELEV 868.4 INV: 863.0 TOP WEIR ELEV: 863.8

8 IN THICK REINF CONCRETE BOTTOM SLAB 8 IN THICK REINF CONCRETE TOP SLAB Ex. 15" RCP IN 48" DIA. M.H. INV: 863.0 Ex. 15" RCP OUT 15" RCP OUTLET TO INFILTRATION BASIN INV: 863.0 12" RCP INLET FROM CATCH BASIN INV: 863.5 16" O.C. STEEL REINFORCED POLYPROPYLENE STEPS (TYP.) - MIN. 2' HORIZONTAL SEPARATION FROM PIPES 2' SUMP

12" RCP INLET FROM CATCH BASIN INV: 864.5 16" O.C. STEEL REINFORCED POLYPROPYLENE STEPS (TYP.) - MIN. 2' HORIZONTAL SEPARATION FROM PIPES 2' SUMP

8 IN THICK REINF CONCRETE BOTTOM SLAB 8 IN THICK REINF CONCRETE TOP SLAB Ex. 24" RCP OUT 24" RCP TO INFILTRATION GALLERY Ex. 21" RCP IN INV: 874.39 Ex. 18" RCP IN INV: 874.09 16" O.C. STEEL REINFORCED POLYPROPYLENE STEPS (TYP.) - MIN. 2' HORIZONTAL SEPARATION FROM PIPES 2' SUMP

15" RCP TO GREELEY STORM SEWER 6" PRECAST REINFORCED CONCRETE BASE 5" 8 IN THICK REINF CONCRETE BOTTOM SLAB 8 IN THICK REINF CONCRETE TOP SLAB Ex. 24" RCP OUT 24" RCP TO INFILTRATION GALLERY Ex. 21" RCP IN INV: 874.39 Ex. 18" RCP IN INV: 874.09 16" O.C. STEEL REINFORCED POLYPROPYLENE STEPS (TYP.) - MIN. 2' HORIZONTAL SEPARATION FROM PIPES 2' SUMP

48" HAALA PS24-30S STAINLESS STEEL OVERFLOW GRATE OR APPROVED EQUAL - GRATE SHALL BE SECURED WITH STAINLESS STEEL BOLTS PER MANUFACTURER

CATCH BASIN INSTALLATION

CATCH BASIN TYPE 'X'

CATCH BASIN TYPE 'Y'

FLARED END SECTION
2 x ROOT BALL WIDTH
Crown drip line or other limit of Tree Protection area. See tree preservation plan for fence alignment.

4'-0"
Maintain existing grade with the tree protection fence unless otherwise indicated on the plans.

2" x 6' steel posts or approved equal.
Tree Protection fence: High density polyethylene fencing with 3.5" x 1.5" openings; Color-orange. Steel posts installed at 8' o.c.

5" thick layer of mulch.

Notes:
1- See specifications for additional tree protection requirements.
2- If there is no existing irrigation, see specifications for watering requirements.
3- No pruning shall be performed except by approved arborist.
4- No equipment shall operate inside the protective fencing including during fence installation and removal.
5- See site preparation plan for any modifications with the Tree Protection Area.

SECTION VIEW

8.5" x 11" sign laminated in plastic spaced every 50' along the fence.

NOT FOR CONSTRUCTION

LILY LAKE FINAL 45 BMP'S
STILLWATER, WASHINGTON COUNTY, MINNESOTA

DESIGN BY DRAWN BY

KDCDEM

EOR PROJECT NO.
0405-0009

SHEET 12 OF 12 SHEETS

STATE PROJECT NO. --- CITY PROJECT NO.

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7330 6th Street North
Oakdale, MN 55128
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LANDSCAPE DETAILS