

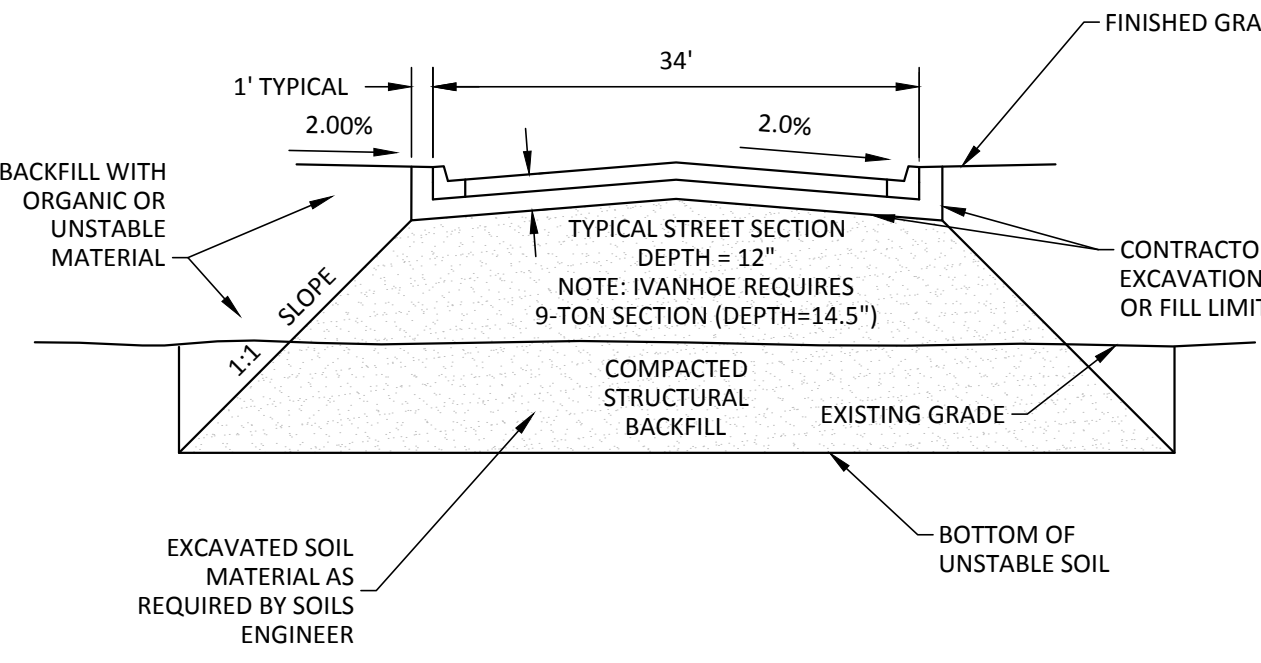
GRADING NOTES

- 1. PROPOSED CONTOURS ARE TO FINISHED SURFACE ELEVATION... 2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE... 3. SAFETY NOTICE TO CONTRACTORS... 4. CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION... TWO GEOTECHNICAL ENGINEERING SOILS REPORTS HAVE BEEN COMPLETED BY: COMPANY: NORTHERN TECHNOLOGIES, INC. ADDRESS: 14000 SUNFISH LAKE BLVD, SUITE M RAMSEY, MN 55303... 5. CONTRACTOR SHALL COMPLETE DEWATERING AS REQUIRED... 6. PRIOR TO PLACEMENT OF THE AGGREGATE BASE... 7. REPLACE ALL SUBGRADE SOIL DISTURBED... 8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING... 9. EXISTING TREES AND OTHER NATURAL VEGETATION... 9.a. RESTRICTED AREAS SHALL INCLUDE... 9.b. CONTRACTOR SHALL RESTRICT ALL GRADING... 9.c. ALL RESTRICTED AREAS SHALL BE FENCED... 10. EXCAVATE TOPSOIL FROM AREAS... 11. TRENCH BORROW CONSTRUCTION... 12. FINISHED GRADING SHALL BE COMPLETED... 13. TOLERANCES 13.a. THE RESIDENTIAL BUILDING SUBGRADE... 13.b. THE STREET AREA SUBGRADE... 13.c. AREAS WHICH ARE TO RECEIVE TOPSOIL... 13.d. TOPSOIL SHALL BE GRADED... 14. LOCATION OF HAUL ROADS... 15. DISTURBED AREAS WITHIN WETLAND... 16. FILL PLACED WITHIN THE BUILDING PAD... 17. GRADING PAD TYPE DESIGNATION...

INFILTRATION BASIN CONSTRUCTION NOTES

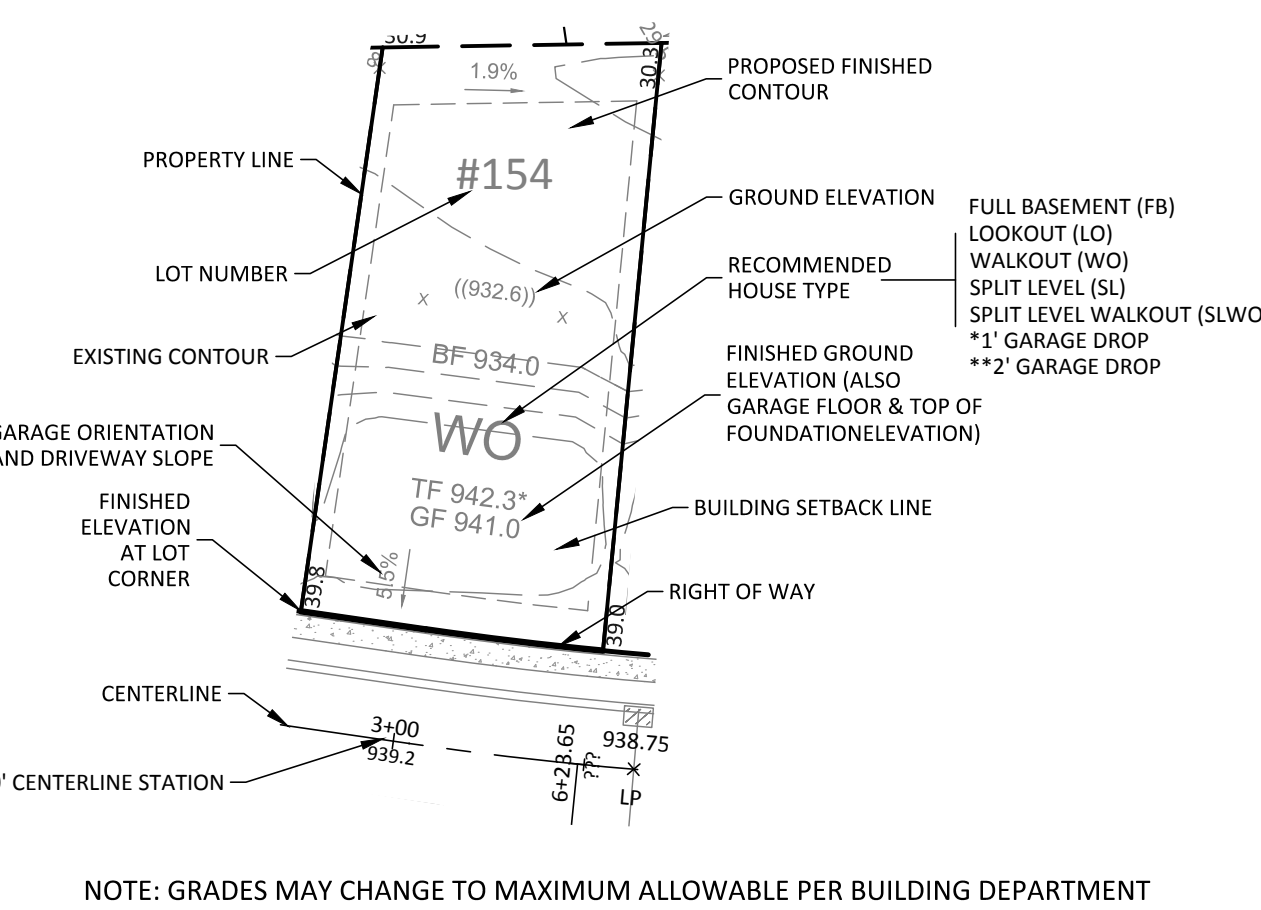
- 1. INFILTRATION BASIN CONSTRUCTION REQUIREMENTS: INCLUDES ALL DEVICES USING FILTRATION THROUGH A SOIL MEDIUM TO CAPTURE STORM WATER... 1.a. THE INFILTRATION BASIN SHALL BE EXCAVATED... 1.b. HEAVY EQUIPMENT SHALL NOT TRAVEL... 1.c. INFILTRATION BASIN SHALL BE PROTECTED... 1.d. ALL FLARED END SECTION INLETS... 1.e. ABOVE THE INFILTRATION BASIN OUTLET... SEED APPLICATION PROCEDURE: MIXTURE APPLICATION PROCEDURES SHALL FOLLOW... ABSENT A SOIL TEST, FERTILIZER MEETING ANALYSIS... 1.f. BELOW THE INFILTRATION BASIN OUTLET... NOTE: INFILTRATION BASIN FLOOR EXCAVATING... 1.g. CONTRACTOR SHALL RESEED OR REPLANT... 1.h. IF ALTERNATIVE METHODS... 1.i. COSTS FOR REMOBILIZATION...

SEED APPLICATION PROCEDURE: MIXTURE APPLICATION PROCEDURES SHALL FOLLOW (MN/DOT) SPECIFICATION 2575.3. SEED SHALL BE SECURED BY USE OF (MN/DOT) SPECIFICATION 3885 CATEGORY 1 EROSION BLANKET. ABSENT A SOIL TEST, FERTILIZER MEETING ANALYSIS 22-5-10 (NPK) 80% W.I.N. SHALL BE APPLIED AT A RATE OF 350 LBS/ACRE FOR SEED MIXTURE 25-131, OR FERTILIZER WITH AN ANALYSIS OF 18-1-8 (NPK) FOR LOAMS, CLAY LOAM SOIL, OR 17-10-7 (NPK) FOR SANDS WITH LESS THAN 30% ORGANIC AND CLAY MATTER...



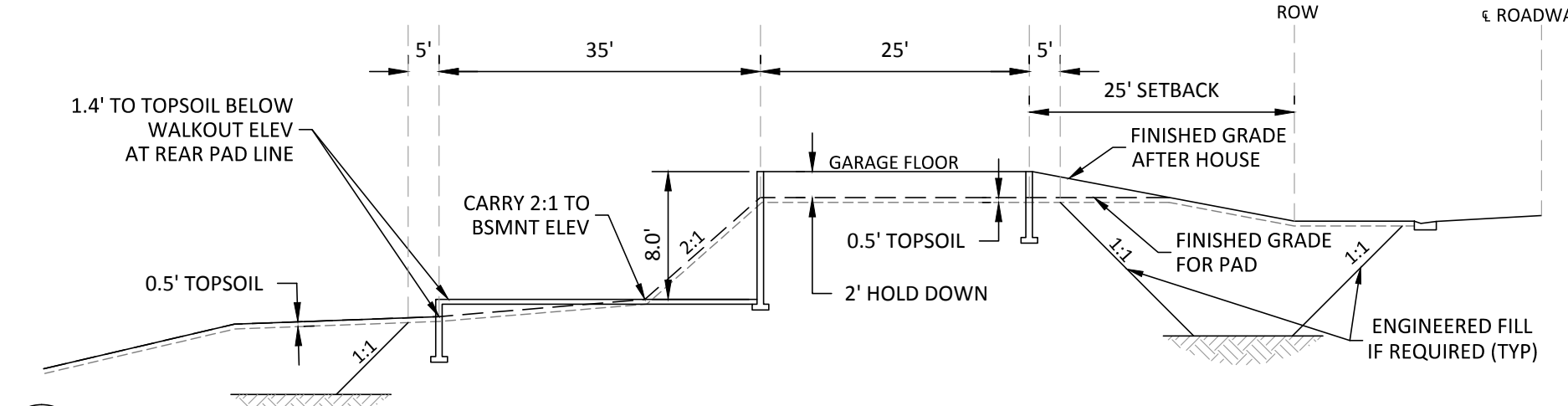
TYPICAL STREET GRADING DETAIL

N.T.S.



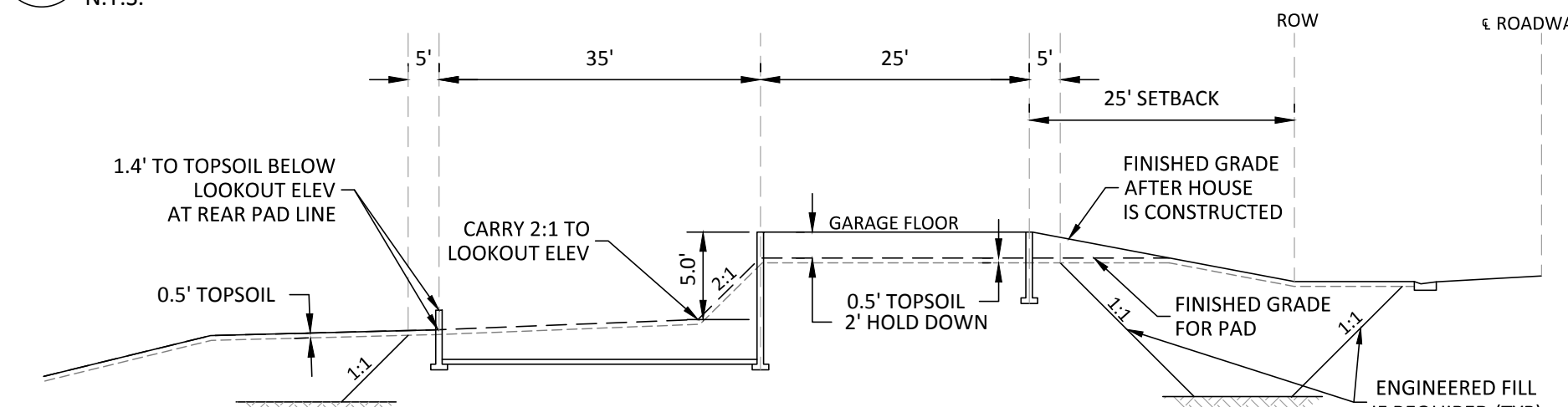
TYPICAL SINGLE FAMILY LOT GRADING DETAIL

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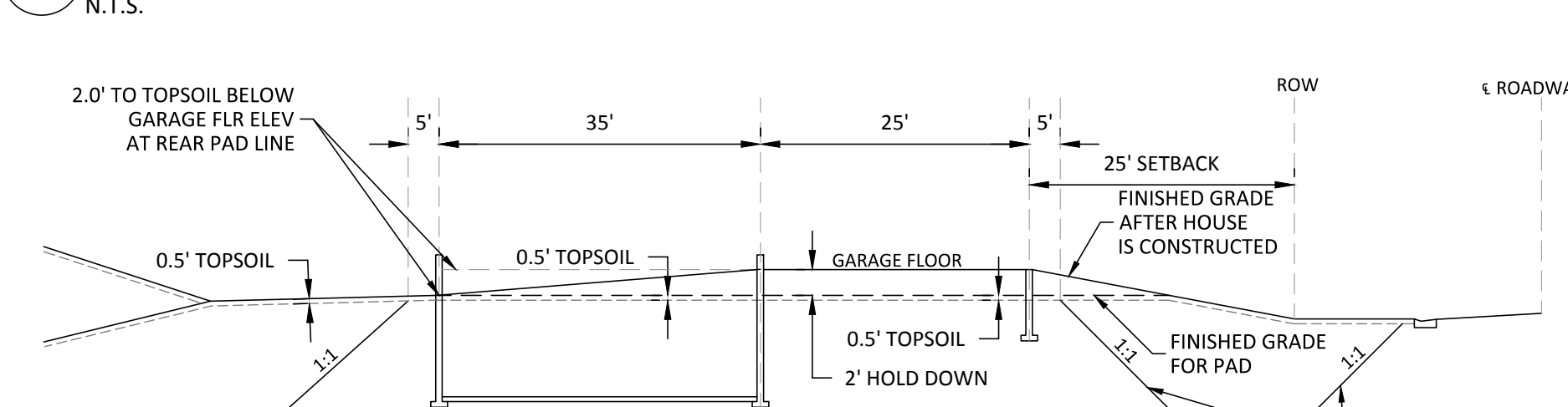
TYPICAL SINGLE FAMILY WALKOUT (WO) BUILDING PAD GRADING DETAIL

N.T.S.



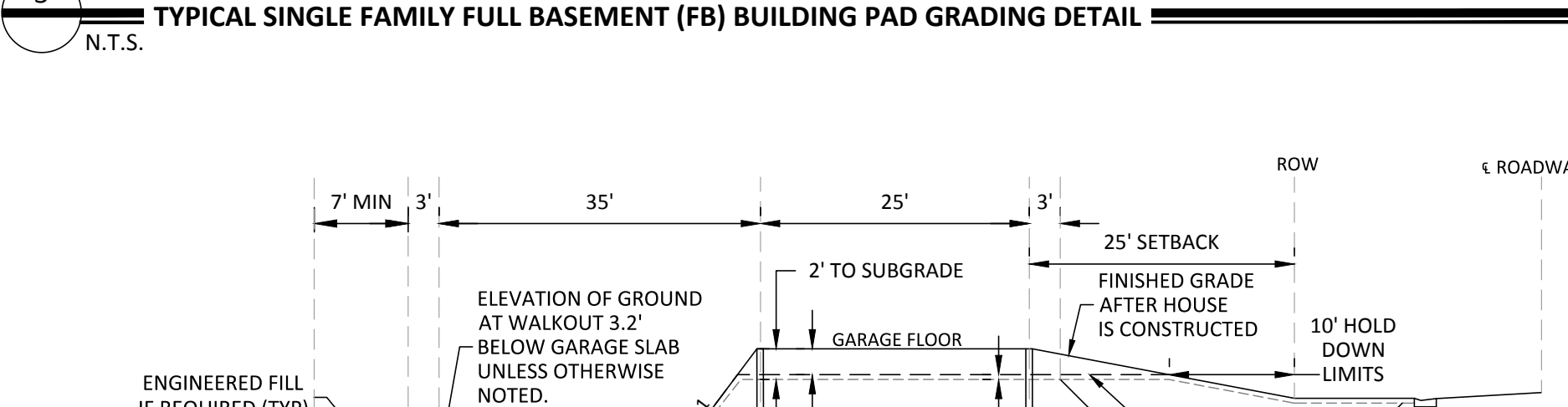
TYPICAL SINGLE FAMILY LOOKOUT (LO) BUILDING PAD GRADING DETAIL

N.T.S.



TYPICAL SINGLE FAMILY FULL BASEMENT (FB) BUILDING PAD GRADING DETAIL

N.T.S.



TYPICAL SINGLE FAMILY SPLIT ENTRY WALKOUT (SEWO) BUILDING PAD GRADING DETAIL

N.T.S.

NOTES:

- 1. PROVIDE SEPARATION FROM WALKOUT ELEVATION OR EXPOSED OPENING TO FINISHED GRADE AS SHOWN IN EACH DETAIL. 2. THE DESIGNATED HOLD DOWN SHALL BE COMPLETED ACROSS THE ENTIRE WIDTH OF THE LOT (SIDE LOT LINE TO SIDE LOT LINE). 3. SOIL CORRECTION FOR EACH BUILDING PAD SHALL AS A MINIMUM BE COMPLETED THE FULL WIDTH OF THE LOT (SIDE LOT LINE TO SIDE LOT LINE). 4. FOR PAD TYPES CONTAINING TWO HOUSE TYPES, THE PAD SHOULD BE HELD DOWN ACCORDING TO THE FIRST LISTED. 5. FINISHED GRADE SHALL BE ESTABLISHED TO THE 10' FRONT EASEMENT LINE BEFORE STARTING THE PAD HOLD DOWN FOR ALL LOTS. 6. PROVIDE DRAINAGE FOR ALL PADS. IF NECESSARY, CUT TRENCH TO DRAIN PAD TO THE FRONT OR REAR YARD.



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Client PAXMAR, LLC.

3495 NORTHDAL BLVD. NW SUITE 210 COON RAPIDS, MN 55448

Project MISKE MEADOWS FIFTH ADDITION

Location ELK RIVER, MN

Certification

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of Minnesota.

Eric T. Luth Registration No. 50475 Date: 03/26/2018 If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's, Minnetonka, MN office.

Summary

Designed: ETL Drawn: MMQ Approved: ETL Initial Issue: 3/26/2018 Phase: CD'S

Revision History

No. Date By Submittal / Revision 06/14/18 MMQ CONSTRUCTION DOCUMENTS

Sheet Title GRADING DETAILS (FOR REFERENCE)

Sheet No. Revision C4.02

Project No. 20460.06