

1. THE CONTRACTOR SHALL SELECT ONE OF THE FOLLOWING SEAMLESS, JOINTLESS, TIGHT FITTING LINER SYSTEMS LISTED BELOW FOR THE REHABILITATION OF THE EXISTING SEWER LINE.

LINER SYSTEMS ALLOWED:

TRADE NAME	GREENBOOK SECTION*	PROCESS
INSITUFORM, WESCO	500-1.4 TYPE A	CURED-IN-PLACE LINER (CIPP LINER)
INSITUFORM, INLINER, WESCO	500-1.4 TYPE B	CURED-IN-PLACE LINER (CIPP LINER)
NUPIPE, EX PIPE	500-1.10 TYPE A	FOLDED AND RE-FORMED PVC PIPE LINER
AM-LINER	500-1.10 TYPE B	FOLDED AND RE-FORMED PVC PIPE LINER

*SHALL COMPLY WITH THE GREENBOOK.

2. INSTALLATION OF THE SEWER LINING SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE MANUFACTURER/OWNER OF THE PROCESS. CONTRACTORS ARE REQUIRED TO SUBMIT COPIES OF SUCH LICENSES WHEN OBTAINING A PERMIT FOR RIGHT-OF-WAY ENCROACHMENT.

TABLE A: MINIMUM PIPE LINER WALL THICKNESS:

NOMINAL ID OF ORIGINAL/ HOST PIPE* (INCHES)	8	10	12	15
DIMENSION RATIO (DR)	35	35	35	35
LINER THICKNESS (INCHES)	0.225	0.280	0.336	0.420

*ID'S NOT LISTED REQUIRE CITY ENGINEER'S APPROVAL.

3. CURED-IN-PLACE LINER (CIPP) DESIGNS SHALL USE MINIMUM OF 15% EXTRA THICKNESS TO COMPENSATE FOR RESIN MIGRATION/SEAL FACTOR TO FILL JOINTS, CRACKED OR DETERIORATED PIPELINES UNLESS A HIGHER % IS REQUIRED BY THE MANUFACTURER TO MAINTAIN THE MINIMUM WALL THICKNESS SPECIFIED IN TABLE A.
4. THE CONTRACTOR SHALL FIELD VERIFY THE PIPE DIAMETER AT THE MANHOLES AND LENGTHS PRIOR TO ORDERING LINER MATERIALS.
5. THE CONTRACTOR SHALL USE HIGH-VELOCITY HYDRAULIC (HYDRO-CLEANING) EQUIPMENT TO CLEAN THE PIPELINES BEFORE THE PRE-LINING VIDEO INSPECTION.
6. THE CONTRACTOR SHALL USE A VACUUM TRUCK TO PICK-UP ALL DEBRIS BEFORE IT CONTINUES DOWN STREAM AND INTO SEWER MAINS WHICH ARE NOT INTEND TO BE REHABILITATED.
7. THE CONTRACTOR SHALL UTILIZE A TEMPORARY BYPASS SYSTEM FOR THE SEWER FLOW DURING THE LINING PROCESS.
8. CCTV INSPECTION SHALL BE PERFORMED UTILIZING A ROTATING-LENS VIDEO CAMERA SYSTEM.
9. ALL ORIGINAL VIDEO MEDIA SHALL BE SUBMITTED TO AND BECOME THE PROPERTY OF THE CITY.

APPROVED:



CITY ENGINEER

CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



REVISION DATE: MAY 2008

TRENCHLESS PIPELINE REHABILITATION
DESIGN CRITERIA

STANDARD PLAN
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