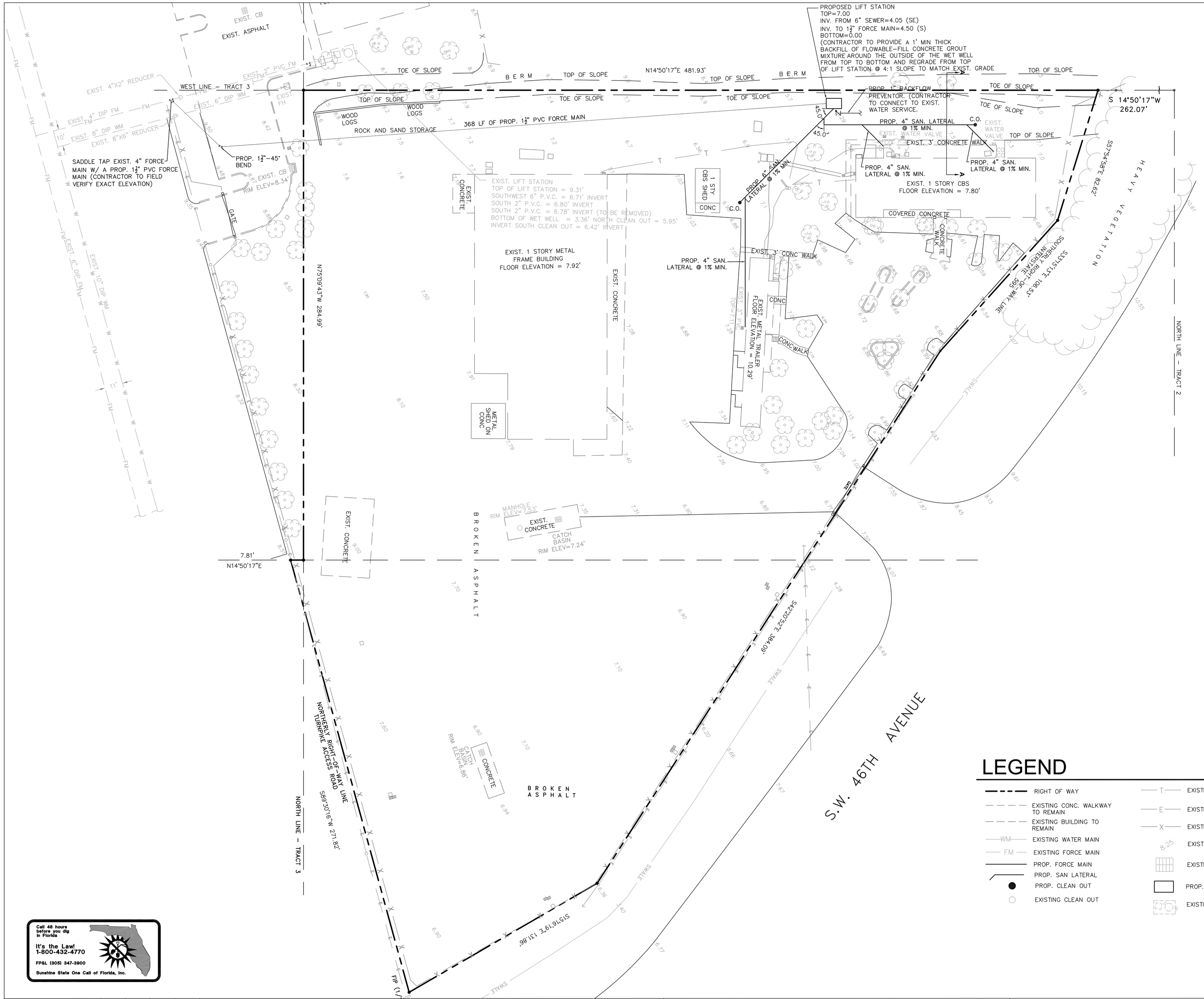
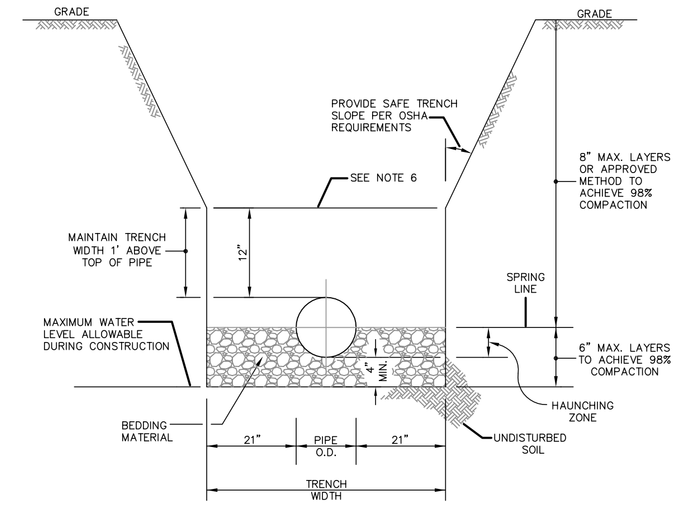
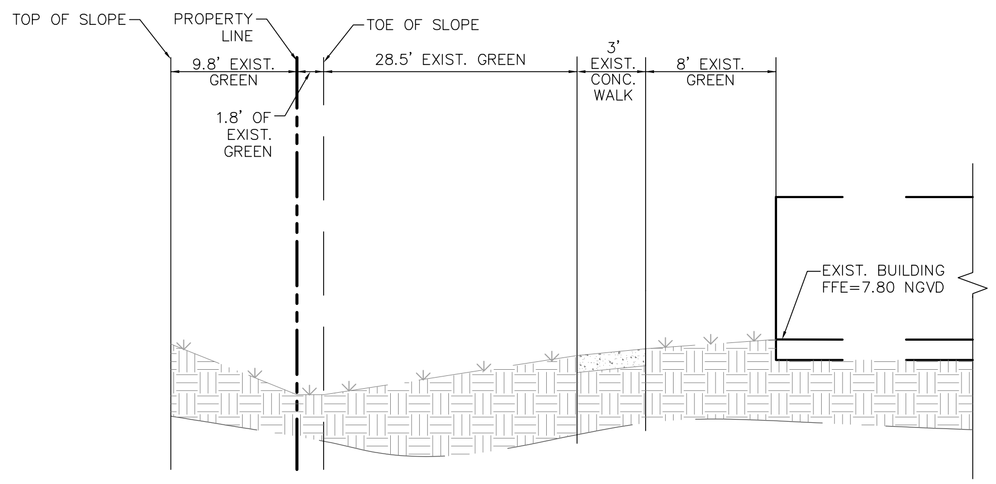




NOTES:

1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
2. BEDDING MATERIAL SHALL CONSIST OF WELL GRADED ASTM C33 #67 ROCK (3/4" TO No.4) AND BE PLACED TO SPRING LINE OF PIPE.
3. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
4. REFER TO SPECIFICATIONS FOR EXCAVATION IN MUCK OR OTHER UNSUITABLE MATERIAL.
5. COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180.
6. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL (WITHIN 12" OF TOP OF PIPE).
7. THOROUGHLY WORK IN AND TAMP THE BEDDING MATERIAL IN THE HAUNCHING ZONE BEFORE PLACING AND COMPACTING REMAINDER OF BACKFILL.

TRENCH DETAIL
NTS



SECTION A-A
NTS

LEGEND

- RIGHT OF WAY
- EXISTING CONC. WALKWAY TO REMAIN
- EXISTING BUILDING TO REMAIN
- WM — EXISTING WATER MAIN
- FM — EXISTING FORCE MAIN
- PROP. FORCE MAIN
- PROP. SAN LATERAL
- PROP. CLEAN OUT
- EXISTING CLEAN OUT
- T — EXISTING TELEPHONE LINE
- E — EXISTING ELECTRICAL LINE
- X — EXISTING FENCE
- 8.25 EXISTING GRADE
- EXISTING CATCH BASIN
- PROP. LIFT STATION
- EXISTING LIFT STATION

NOTES:

1.) CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

2.) VERTICAL CROSSINGS
SANITARY SEWER SYSTEMS AND/OR RECLAIMED WATER MAINS SHALL CROSS UNDER POTABLE WATER MAINS WHENEVER PHYSICALLY POSSIBLE. SANITARY SEWER SYSTEMS AND/OR RECLAIMED WATER MAINSCROSSING BELOW POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A PREFERRED VERTICAL SEPARATION DISTANCE OF 12 INCHES (MINIMUM 6" FOR GRAVITY/RECLAIMED MAIN) BETWEEN THE INVERT OF THE POTABLE WATER MAIN AND THE CROWN OF THE LOWER PIPE.

3.) HORIZONTAL SEPARATIONS
WHEREVER IT IS PHYSICALLY POSSIBLE:

SANITARY SEWER SYSTEMS REQUIRE A PREFERRED 10-FOOT HORIZONTAL SEPARATION DISTANCE (MINIMUM 6-FOOT) OUTSIDE TO OUTSIDE OF PIPE BETWEEN ANY POTABLE WATER MAIN PARALLEL INSTALLATIONS.

RECLAIMED WATER MAINS REQUIRE A MINIMUM OF A 3 FOOT OUTSIDE TO OUTSIDE OF PIPE HORIZONTAL SEPARATION DISTANCE BETWEEN ANY POTABLE WATER MAIN AND/OR A SANITARY SEWER SYSTEM PARALLEL INSTALLATIONS.

WHEREVER EITHER ARE NOT PHYSICALLY POSSIBLE, THEN THE POTABLE WATER MAIN SHALL BE LAID AT THE MAXIMUM PHYSICAL HORIZONTAL SEPARATION DISTANCE POSSIBLE, AND EITHER LAID:
A) IN A SEPARATE TRENCH;
B) ON AN UNDISTURBED EARTH SHELF; AND CONFORMING TO THE MINIMUM VERTICAL CROSSINGS IN PARAGRAPH 1).

4.) CONFLICTS
WHEREVER IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM STANDARDS IN 1) AND 2), THEN ALL PIPING MATERIAL SHALL BE DUCTILE IRON PIPE (DIP). ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN AND SITE CONDITIONS. ADDITIONALLY, THE POTABLE WATER MAIN SHALL A FULL JOINT CENTERED ON THE CONFLICT AND MECHANICALLY RESTRAINED. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF 6 INCHES SHALL BE PROVIDED BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.

5.) THE BOTTOM OF THE CONTROL PANEL NEEDS TO BE ABOVE THE 100 YEAR FLOOD PLAN, AND THE TOP SLAB OF THE LIFT STATION NEEDS TO BE ABOVE THE 25 YEAR FLOOD PLAN.

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RR 06/04/07					
CHECKED BY DATE					
RR 06/04/07					
APPROVED BY DATE	No.	DATE	BY	APP.	REVISIONS

MASTEC
LIFT STATION
DESIGN

DAVIE , FLORIDA

ROSS ENGINEERING, INC.
3325 S. UNIVERSITY DRIVE, SUITE 111
DAVIE, FLORIDA 33328
(954)318-0624 (954)358-0190 FAX
CERTIFICATE OF AUTHORIZATION No. 9808

ROBERT J. ROSS, P.E.
FLORIDA P.E. No. 59485
DATE: 02/25/2009

LIFT STATION PLAN

SCALE: 1"=30' | SHEET No. C-3