

SANITARY SEWER STRUCTURE SCHEDULE

- (S-1) EX. SCO TIE INTO EX. 4" SAN LATER. AT INV. ±9.50 RIM 12.10
- (S-2) SCO CITY STD RIM 12.10 INV. 9.72
- (S-3) SCO CITY STD RIM 12.20 INV. 10.11

SANITARY SEWER PIPE SCHEDULE

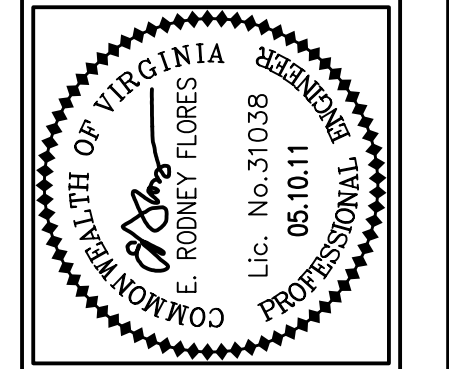
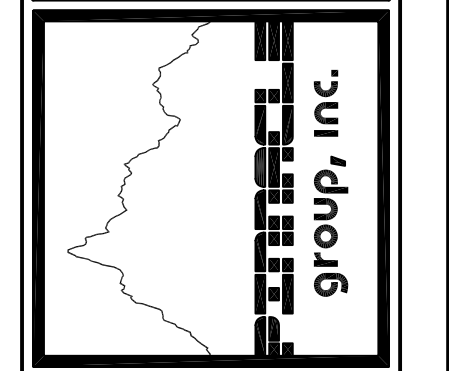
- (S-1) TO (S-2) 35'-4" SAN PVC @ 1.04% MIN. SLOPE INV. UP= 10.11 INV. OUT= 9.72
- (S-2) TO (S-3) 20'-4" SAN PVC @ 1.04% MIN. SLOPE INV. UP= 9.72 INV. OUT= 9.50

DESIGN NOTES

1. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND PERMISSION PRIOR TO COMMENCING CONSTRUCTION. IF CONFLICTS EXIST NOTIFY ENGINEER.
2. BUILDING ADDITION. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS
3. HANDICAP RAMP WITH RAILING 1:12 MAX. SLOPE.
4. AIR CONDITIONER PAD WITH PVC FENCE SCREENING. HEIGHT OF FENCE SHALL BE GREATER THAN A/C/ UNITS.
5. TOPSOIL, SEED, AND STRAW MULCH TO STABILIZE ALL DISTURBED AREAS PER VESCH. (TO) (PS) (MU)
6. HANDICAP PARKING SPACE WITH SIGNAGE. SEE DETAIL.
7. EXISTING INTERNAL PROPERTY LINES SHALL BE VACATED BY PLAT BY OTHERS.
8. UTILIZE EXISTING GRAVEL ENTRANCE AS CONSTRUCTION ENTRANCE (CE) SEE DETAIL.
9. PROPOSED CONSTRUCTION LIMITS.
10. SILT FENCE (SF) SEE DETAIL.
11. 5' WIDE 4" THICK CONCRETE WALK. SEE DETAILS.
12. TIE INTO EXISTING SIDEWALK AND MATCH GRADE.
13. STEPS. SEE ARCHITECTURAL PLANS FOR DETAILS. R/W ENCROACHMENT REQUEST SUBMITTED THROUGH ENGINEERING DEPT. AND CITY ATTORNEY'S OFFICE FOR APPROVAL.
14. PROPOSED BUILDING ADDITION WILL CONNECT TO EXISTING BUILDING WATER AND SEWER SERVICES. SEE ARCHITECTURAL PLANS FOR EXACT PLUMBING LOCATIONS.
15. EXISTING 5/8" METER SHALL BE REPLACED WITH 3/4" METER BY CITY FORCES AT OWNER'S EXPENSE.
16. 1 S.Y. RIP RAP.
17. BIORETENTION FILTER. SEE DETAIL.
18. EARTHEN BERM 0.5'H, 3'W, 3:1 SIDE SLOPE. SEE DETAIL.
19. GRASS SWALE. SEE DETAIL.
20. ROOF DRAINS SHALL BE DIRECTED TO REAR OF PROPERTY.
21. 2" PVC PIPE OBSERVATION WELL WITH CAP. SEE SECTION DETAIL.
22. SCREEN FENCE AROUND MECHANICAL UNITS.
23. PARALLEL PARKING SPACE 9'X22' LINES ARE FOR ILLUSTRATION ONLY.
24. 9'X18' PARKING SPACE WITH 4" WHITE LINES.
25. 4' WIDE SIDEWALK. CITY STANDARD. SEE DETAIL.
26. 3/4" BACKFLOW PREVENTER IN HOT BOX.
27. SILT BLANKET ROLL (SB)
28. PERVIOUS PAVERS PAVEMENT FOR PARKING LOT.
29. CONCRETE WHEEL STOP. SEE DETAIL.
30. 15% ENCROACHMENT INTO 10' BSL. ADMINISTRATIVE REQUEST FROM PLANNING DIRECTOR.
31. POLE MOUNTED LIGHT WITH FULL CUT OFF LENSES OR HOOD. SEE SPECIFICATIONS ON LIGHTING PLAN.
32. 3/4" GATE VALVE.
33. 3/4" WATER SERVICE PIPE COPPER "TYPE K", 36" COVER MINIMUM
34. 4" SANITARY LATERAL. CONNECT TO EX. SAN LATER OF EX. CHURCH OFFICE. ENSURE THAT EX. LATERAL HAS AN INVERT OF AT LEAST 36" DEEP. CONTRACTOR SHALL LOCATE LATERAL AND DETERMINE DEPTH IS ADEQUATE TO CONNECT PROPOSED BUILDING. NOTIFY ENGINEER IF CONFLICTS EXIST.
35. SANITARY CLEANOUT. SEE DETAIL.

NO.	DATE	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	BY
1	5.10.11			
1	3.16.11			

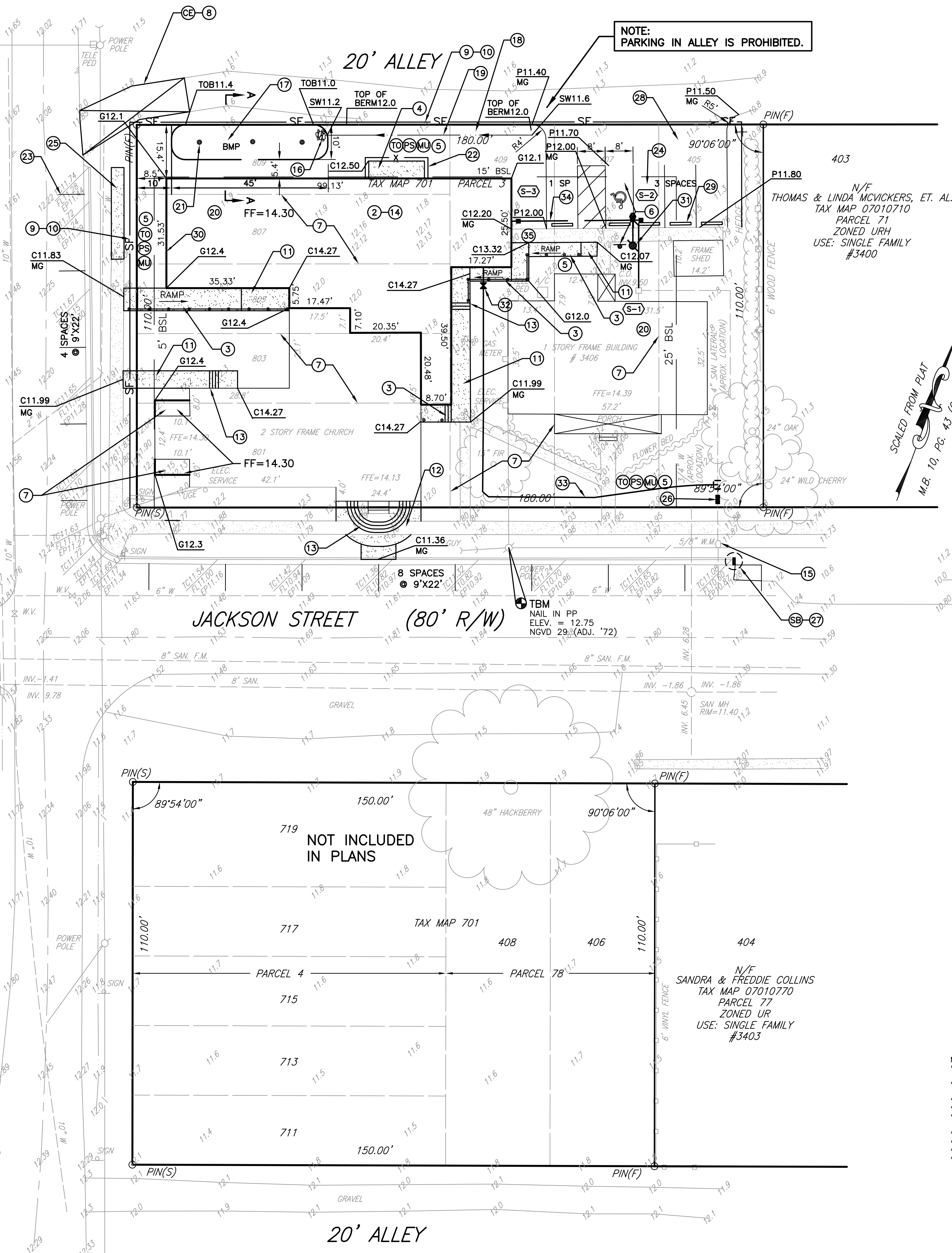
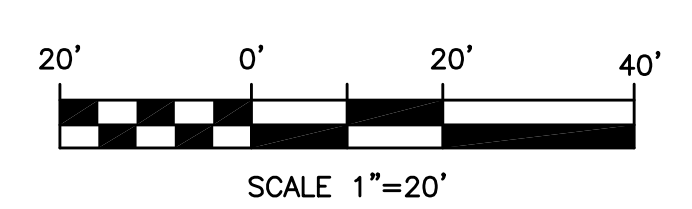
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LIBERTY CHRISTIAN FELLOWSHIP CHURCH
 3406 JACKSON STREET
 PORTSMOUTH, VIRGINIA
 TP#07010030

SITE PLAN

PROJECT NO.	2010-025
SCALE	1"=20'
DATE	1.16.10
DRAWN BY	PGE
CHECKED BY	ERF
DRAWING NO.	C3
	3 OF 6 SHTS



NOTE: PARKING IN ALLEY IS PROHIBITED.



WATER QUALITY VOLUME REQUIREMENTS:

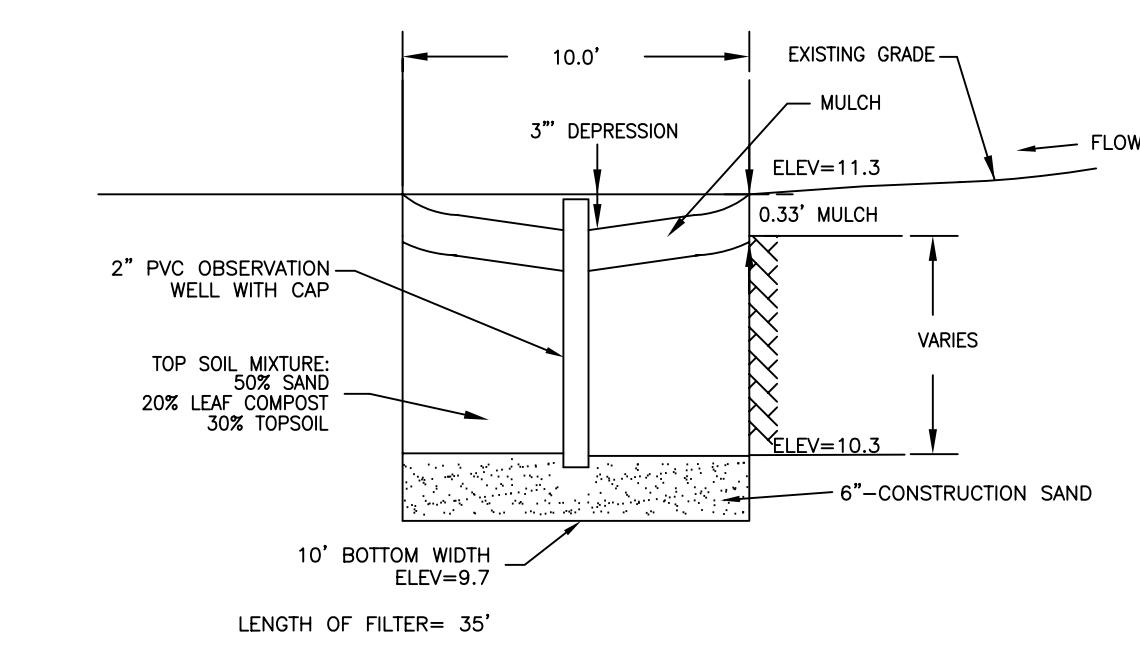
WATER QUALITY VOLUME REQUIRED:
 0.50" PER IMPERVIOUS AREA
 $WQV = (0.0417) \times (5,943 \text{ SF}) = 248 \text{ CF}$

WATER QUALITY VOLUME PROVIDED:
 $\text{VOLUME OF MULCH BED} = \text{LENGTH} \times \text{WIDTH} \times \text{DEPTH} \times \text{VOID RATIO}$
 $\text{VOLUME} = (45') \times (10') \times (1.5') \times (0.40) = 270 \text{ CF}$

THEREFORE WQV PROVIDED IS ADEQUATE

FLOOR AREA REQUIRED = 2.5% X IMPERVIOUS AREA
 = 0.025 X 5,943 SF = 149 S.F.

FLOOR AREA PROVIDED = 10' X 45' = 450 S.F. OK



- NOTES:**
- * DEPTHS DEPENDENT ON DEPTH TO SEASONAL HIGH GROUND WATER TABLE AND ON THE TYPE OF VEGETATION DESIRED.
 - * THE SLOPE INTO THE BED FROM THE SIDE SHOULD BE BETWEEN 2% AND 7% TO ENSURE POSITIVE DRAINAGE TO MAINTAIN SHEET FLOW.
 - * AN EMERGENCY OVERFLOW BERM MUST BE PLACED DOWNSLOPE OF THE BED.
 - * MAINTENANCE OF THE BED IS THE SOLE RESPONSIBILITY OF THE OWNER.
 - * THE BED SHOULD NOT BE INSTALLED UNTIL OR DURING FINAL LOT GRADING, OTHERWISE IT CAN BECOME CLOGGED OR COMPACTED.
 - * BED SHOULD BE 3" HIGHER ON ENDS TO PREVENT WATER RUNNING AROUND THE ENDS.
 - * 3" DEPRESSION MUST BE MAINTAINED BY THE OWNER.
 - * SEE LANDSCAPE PLAN FOR A LIST OF GROUNDCOVER, PERENNIALS AND NATIVE SHRUBS.
 - * DURING THE INSTALLATION OF THE PLANTING BED, WHEN ENCOUNTERING IMPERVIOUS SOILS, EXCAVATE TO SAND LAYER SUITED FOR INFILTRATION AND BACKFILL WITH COARSE, CLEAN SAND OR WASHED STONE TO THE BOTTOM OF THE DESIGN ELEVATION OF THE BED.

- NOTES:**
1. EXCAVATION MATERIAL FROM CONSTRUCTION SHALL BE DISPOSED OF IN A LAWFUL MANNER.
 2. PINNACLE GROUP ENGINEERING, INC.:
 - A. HAS NO AUTHORITY OVER CONTRACTOR AND ASSUMES NO RESPONSIBILITY FOR ANY ENVIRONMENTAL INFRACTIONS CONTRACTOR MAY MAKE.
 - B. HAS NOT CONDUCTED A WETLANDS INVENTORY OR WETLANDS SURVEY FOR THIS SITE.
 - C. MAKES NO GUARANTEE AS TO THE ACCURACY OF THE EXISTING SURVEY WHICH WAS CONDUCTED BY STEPHEN BOONE & ASSOCIATES INC.
 3. ALL PROPOSED FINISHED FLOOR ELEVATIONS ARE A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR FLOOD PLAIN ELEVATION.
 4. ANY AND ALL MATERIAL OR DEBRIS TRACKED ONTO A PRIVATE OR PUBLIC ROAD SURFACE WILL BE REMOVED AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A SEDIMENT CONTROLLED DISPOSAL AREA.

NOTES:

THIS PLAN DOES NOT GUARANTEE THE LOCATION OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO DETERMINE ACTUAL LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO MOBILIZATION. IF CONFLICTS EXIST, NOTIFY ENGINEER.

BEFORE DIGGING CONTACT "MISS UTILITY" AT 811.