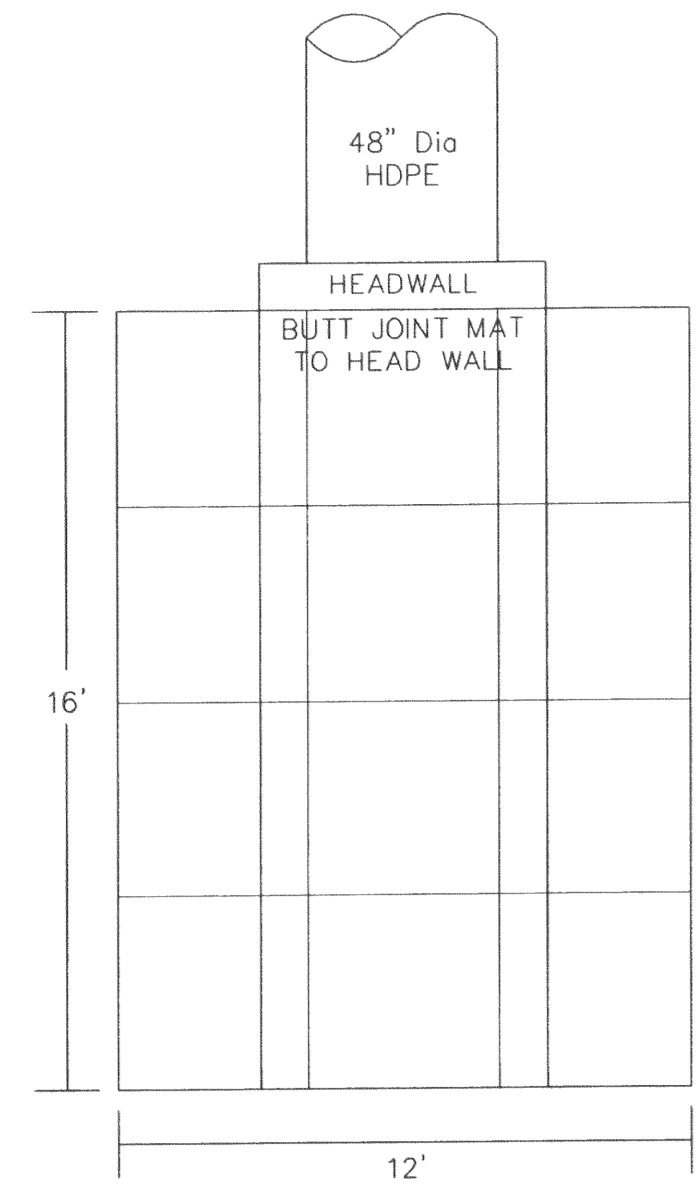
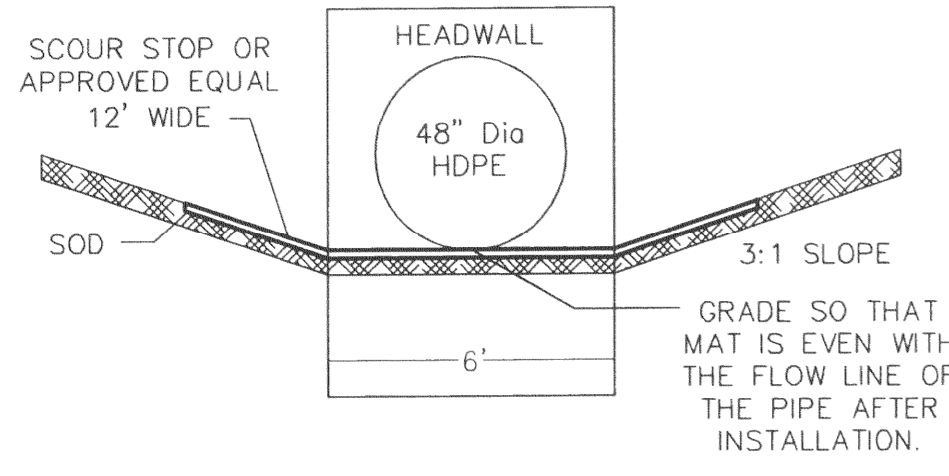


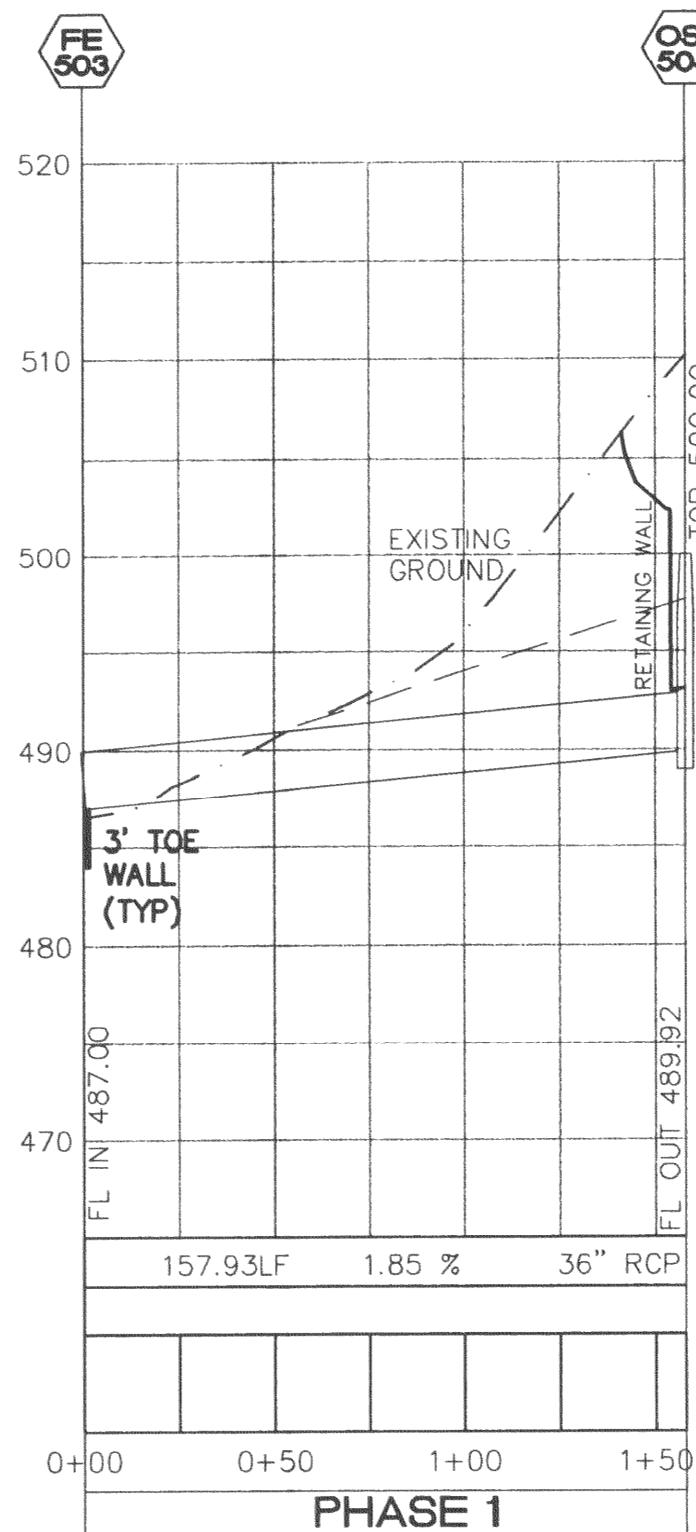
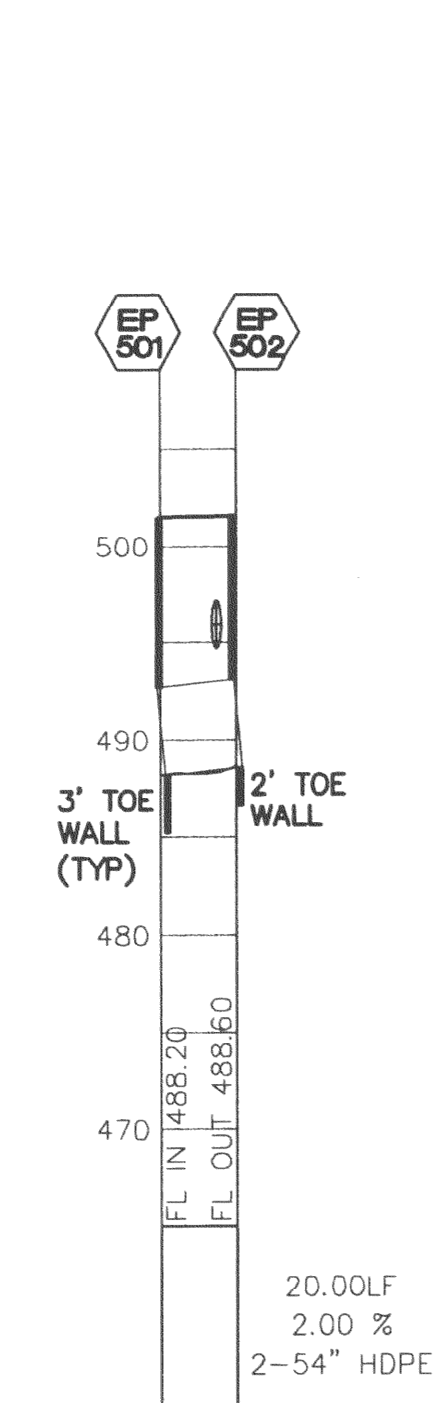
HEADWALL DETAIL



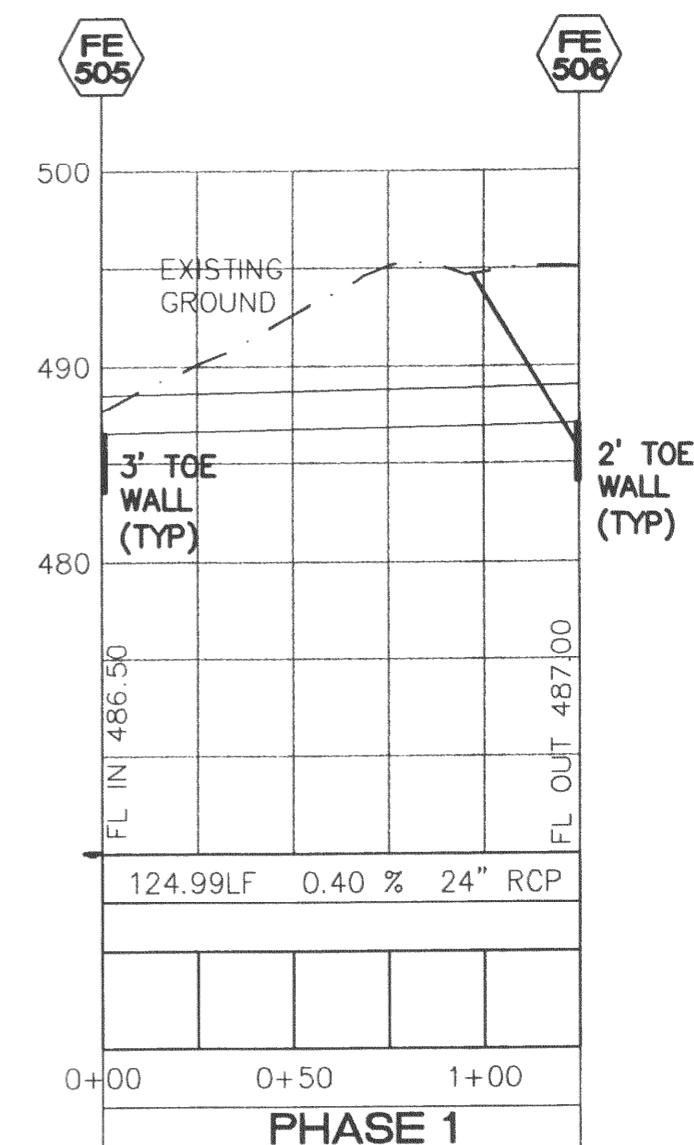
SCOUR STOP DETAIL



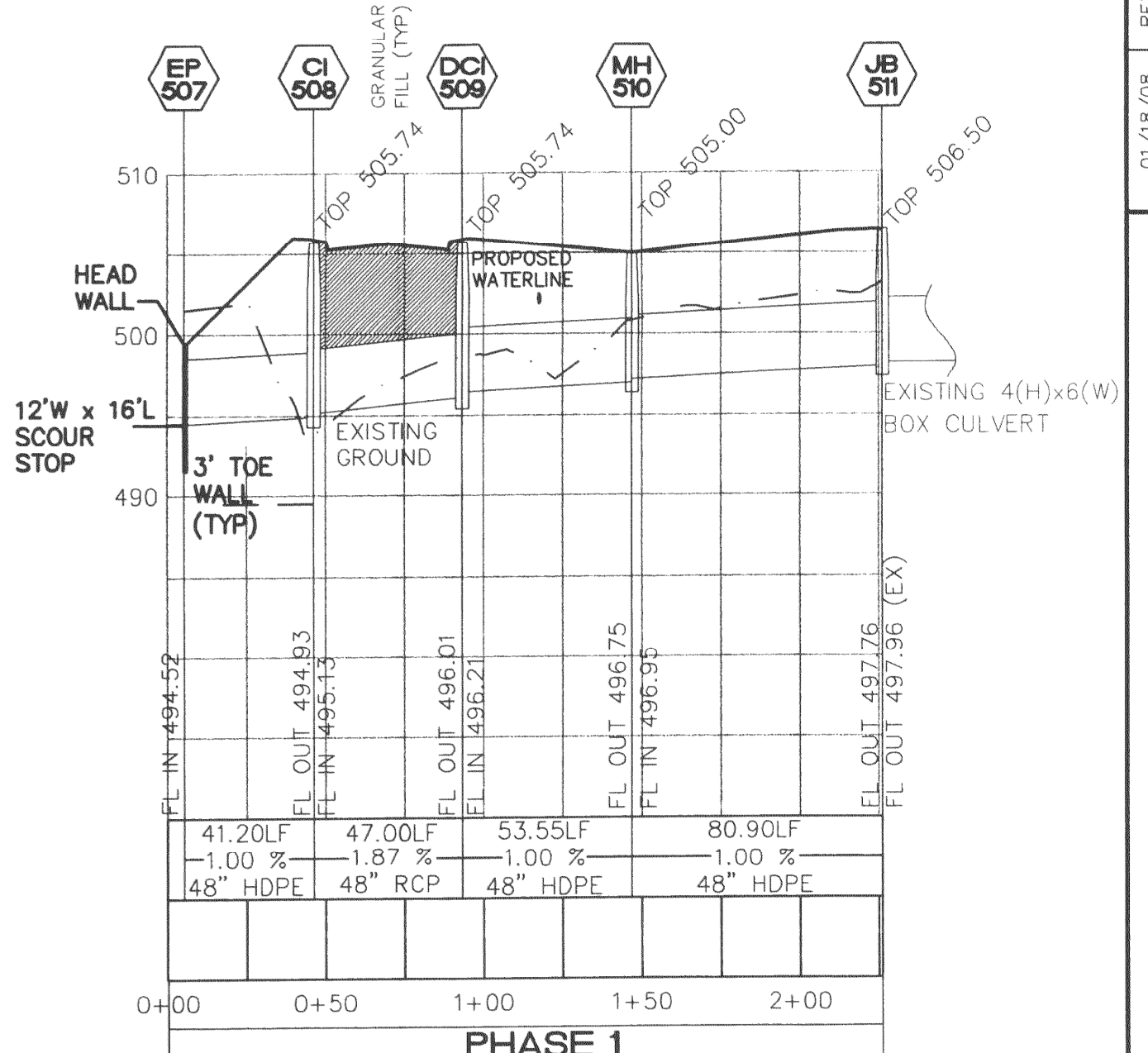
PHASE 1



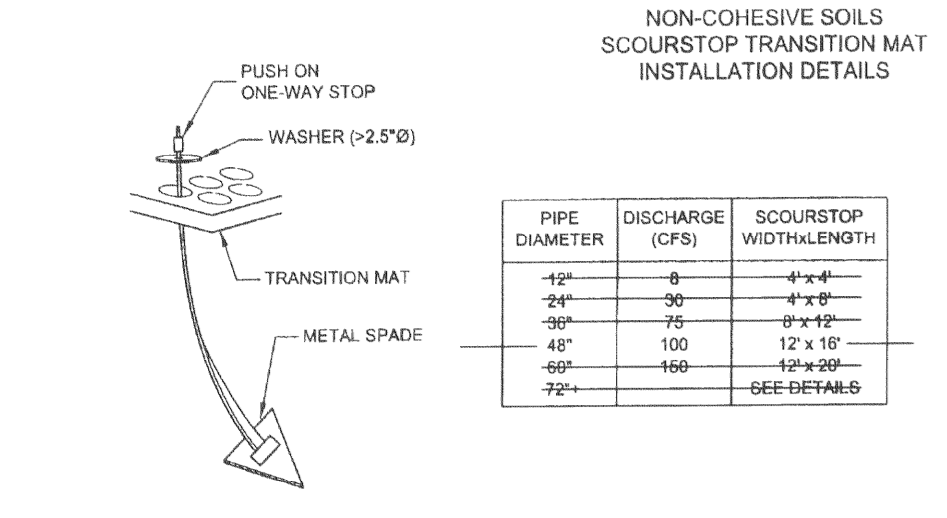
PHASE 1



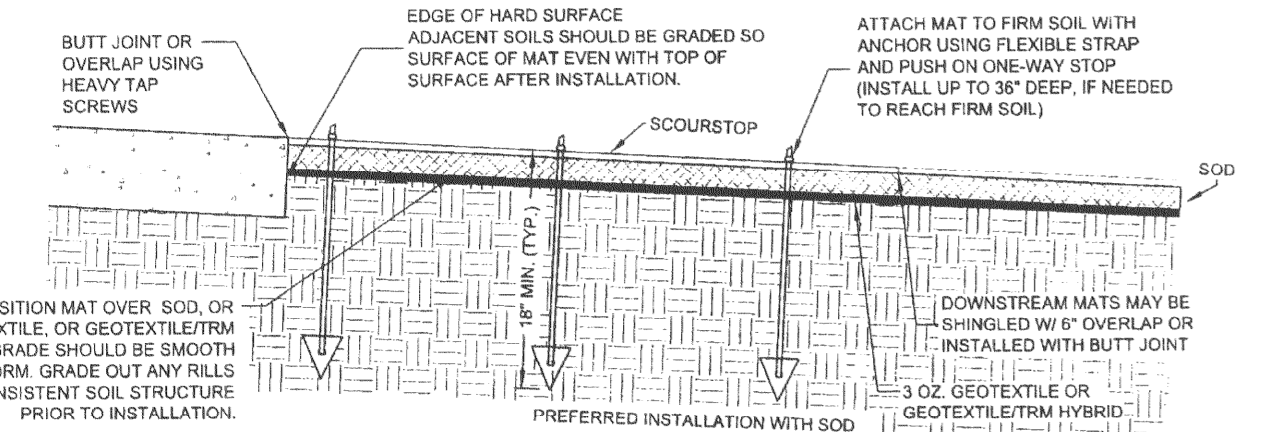
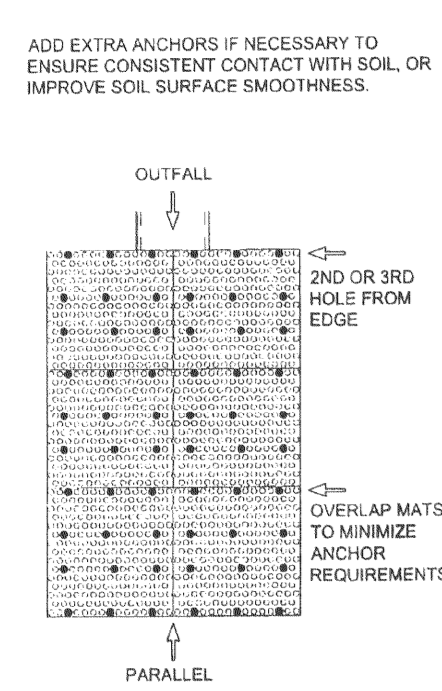
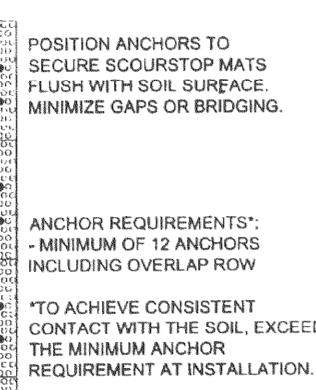
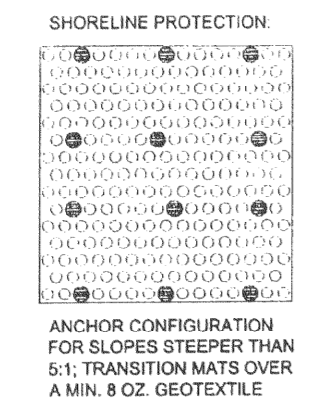
PHASE 1



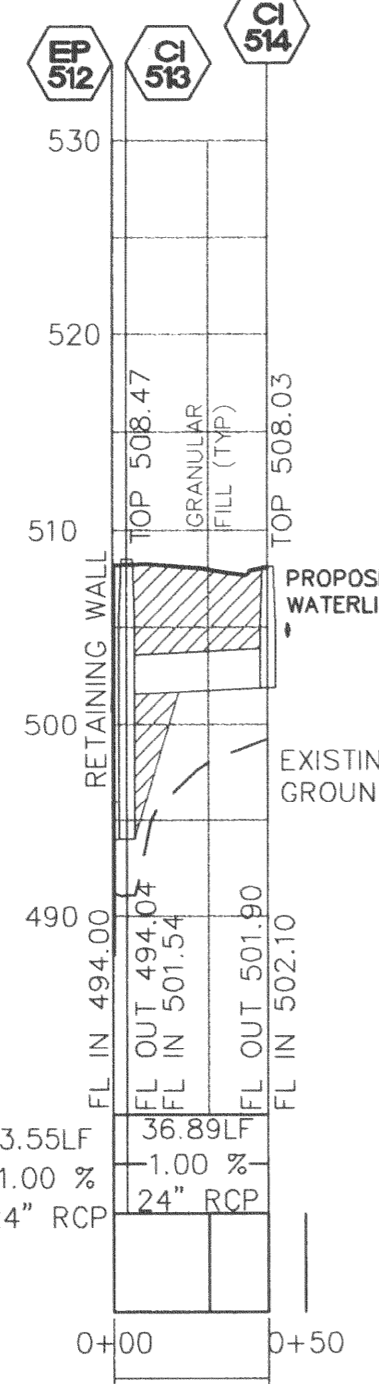
REVISED 03-03-09



PIPE DIAMETER	DISCHARGE (CFS)	SCOURSTOP WIDTH x LENGTH
24"	0	4' x 4'
30"	30	4' x 6'
36"	75	8' x 12'
48"	100	12' x 16'
60"	160	12' x 20'
72"		SEE DETAILS

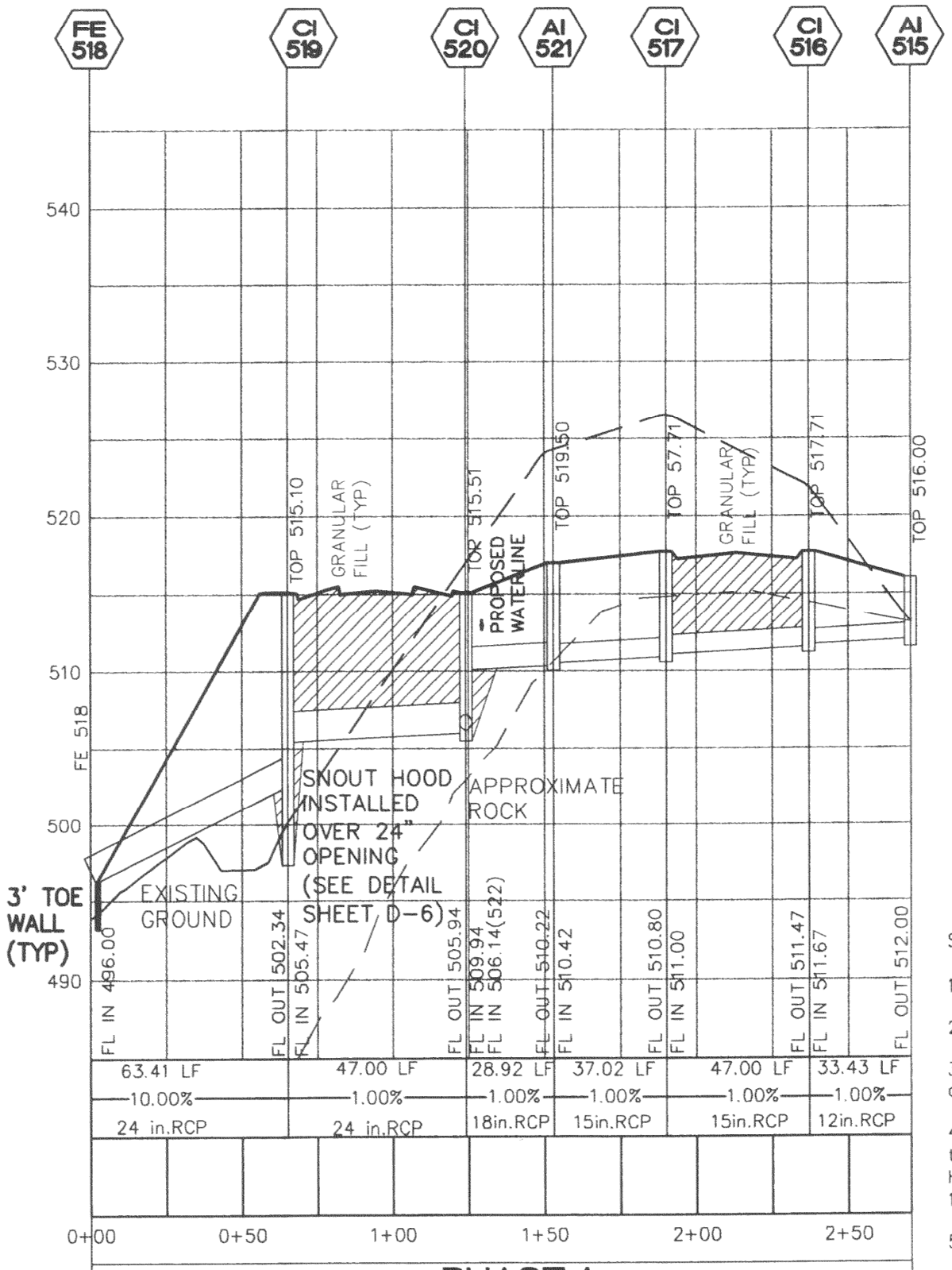


REVISED 7/17/08



PHASE 1

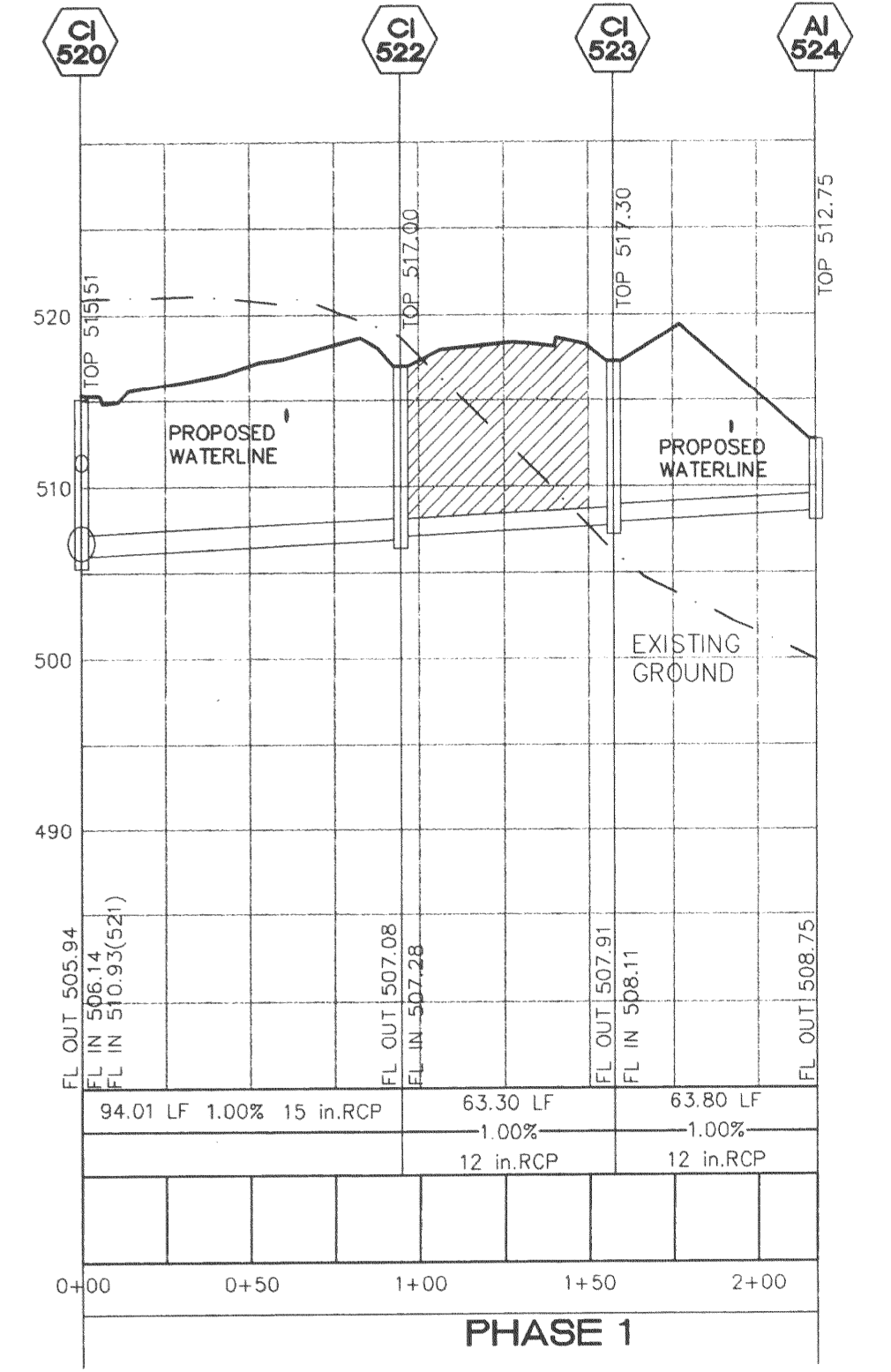
REVISED 03-03-09



PHASE 1

REVISED 08/06/08

- STORM NOTES:
- All structures are to have a minimum 0.20% drop across the structure.
  - All floored ends shall be concrete.
  - For drop structures, compacted rock backfill is required in the disturbed ground around the structure.
  - Concrete encase both storm and sanitary sewers if crossing is less than 18" of separation. A concrete cradle for RCP and encasement for HDPE will be required for all storm sewer lines when crossing more than 18" above the sanitary lines.
  - Structures shall be sized to handle incoming and outgoing pipes.
    - 42" Structure - 12"-18" Pipe with A-Lock
    - 48" Structure - 21"-24" Pipe with A-Lock
    - 60" Structure - 27"-30" Pipe with A-Lock
    - 72" Structure - 36" Pipe with A-Lock
 Angle of incoming and outgoing pipe may require a larger structure. (see Shop Drawings)



PHASE 1

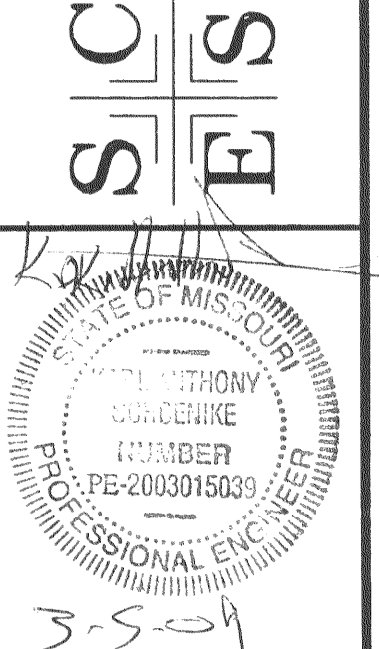
O'FALLON P+Z NO. 3805.05  
APPROVED AUGUST 16, 2007

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REVISED BID SET  
01/18/08  
REVISED PER CITY COMMENTS  
02/18/08  
REVISED STORM SEWERS  
08/06/08

**BELLEAU  
CROSSING  
STORM**

ST. CHARLES ENGINEERING & SURVEYING, INC.  
801 S. FIFTH STREET, SUITE 202  
ST. CHARLES, MO 63301  
TEL: (636) 947-0607 FAX: (636) 947-9448



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