

VICINITY MAP
SCALE 1"=200'

- SEQUENCE OF OPERATION**
- 1 OBTAIN A GRADING PERMIT
 - 2 CLEAR & GRUB FOR THE INSTALLATION OF PERIMETER CONTROLS
 - 3 INSTALL SILT FENCE AS SHOWN ON THIS SHEET
 - 4 CLEAR & GRUB THE REMAINDER OF THE SITE
 - 5 ROUGH GRADE SITE & INSTALL 6" STORM DRAIN.
 - 6 INSTALL SILT FENCE AS SHOWN ON STONE TRENCH PLAN ON SHEET 2
 - 7 INSTALL STONE TRENCH
 - 8 INSTALL PAVING
 - 9 FINE GRADE & STABILIZE AS REQUIRED.
 - 10 AFTER ALL AREAS ARE STABILIZED & WITH THE INSPECTOR'S APPROVAL ALL PERIMETER CONTROLS MAY BE REMOVED & STABILIZED

SITE ANALYSIS

- 1) TAX MAP 43, PARCEL 30
- 2) DEED REFERENCE 1179/048
- 3) EX ZONING M-2
- 4) SITE USE REPAIR SHOP / OFFICE
- 5) TOTAL AREA OF SITE 1.8 AC OR 78,408 SF
- 6) BUILDING COVERAGE 7,740 SF OR 9.9%
- 7) OPEN SPACE PROVIDED 1,340 SF OR 1.7%
- 8) ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL IV
- 9) CONTRACTOR TO NOTIFY MISS UTILITY AT 1-555-0100, 48 HOURS PRIOR TO BEGINNING WORK
- 10) CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK
- 11) NO EMPLOYEES 10
- 12) PARKING REQUIRED USE EMP SPACES REQ.

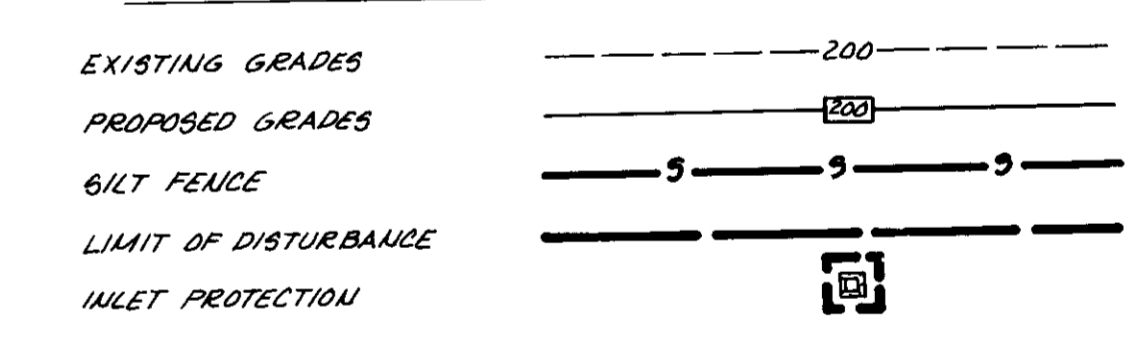
| | | |
|--------|-------|------------------|
| OFFICE | 540 | 3 |
| SHOP | 7,200 | 1 PARKING/500 SF |
| TOTAL | 7,740 | 15 |
- 13) PARKING PROVIDED: 15 SPACES (HANDICAPPED PARKING REQUIREMENTS HAVE BEEN WAIVED)
- 14) LAND SCAPED / LANDS REQ'D: 5% AREA OF PARKING LOT: 19,731 SF REQ'D / ISLAND AREA: 987 SF / ISLAND AREA PROVIDED: 2170 SF = 11% PERPENDICULAR 9'x18' (TYP) PARALLEL 8'x22' (TYP)
- 15) PARKING SPACES

LANDSCAPING SCHEDULE

| QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | SYMBOL |
|----------|-------------------------|----------------|-----------|----------|
| 1 | PIRUS BEEBULATA KNAUZAN | KNAUZAN CHERRY | 6"-8" HGT | (Symbol) |

NOTE: THIS SITE PLAN IS AN UPDATE TO THE APPROVED S.D.P. NO. 86-178 AND IS INTENDED TO REFLECT THE TYPES AND LIMITS OF PAVING ALONG WITH THE REQUIRED GRADING AND SEDIMENT CONTROL MEASURES ONLY

SEDIMENT CONTROL LEGEND



PARKING & DRAINAGE REVISIONS TO S.D.P. 86-178

SEE APPROVED S.D.P. NO. 86-178

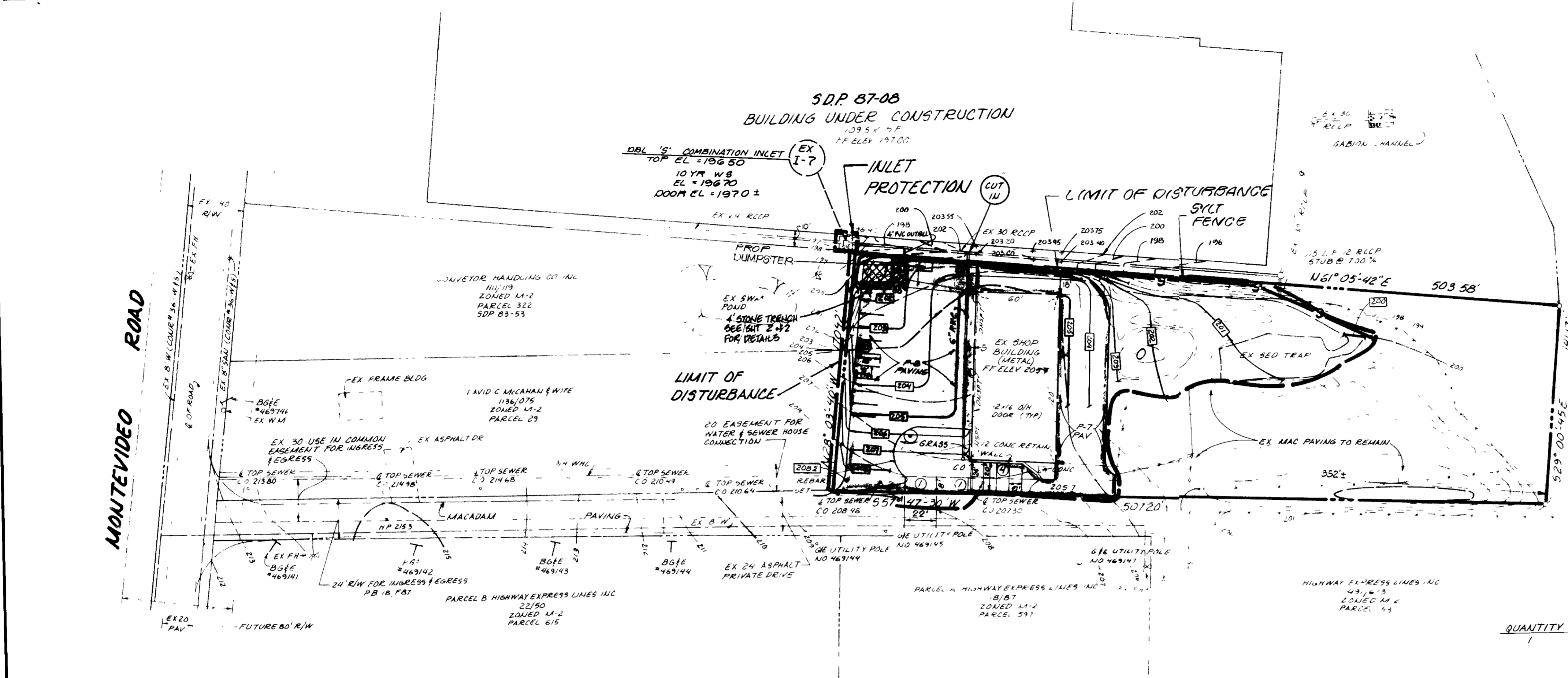
| SUBDIVISION NAME | SECTION/AREA | TAX MAP PARCEL NO. | | | |
|------------------|--------------|--------------------|--------------|----------|--------|
| MCCAHAN PROPERTY | | 30 | | | |
| PLAT N° OR LIF | BLOCK N° | ZONE | TAX/ZONE MAP | ELECT DT | GEN TR |
| 1179/048 | 10 | M-2 | 43 | 1 | 6012 |
| WATER CODE | SEWER CODE | | | | |
| 501 | 2400000 | | | | |

ADDRESS CHART

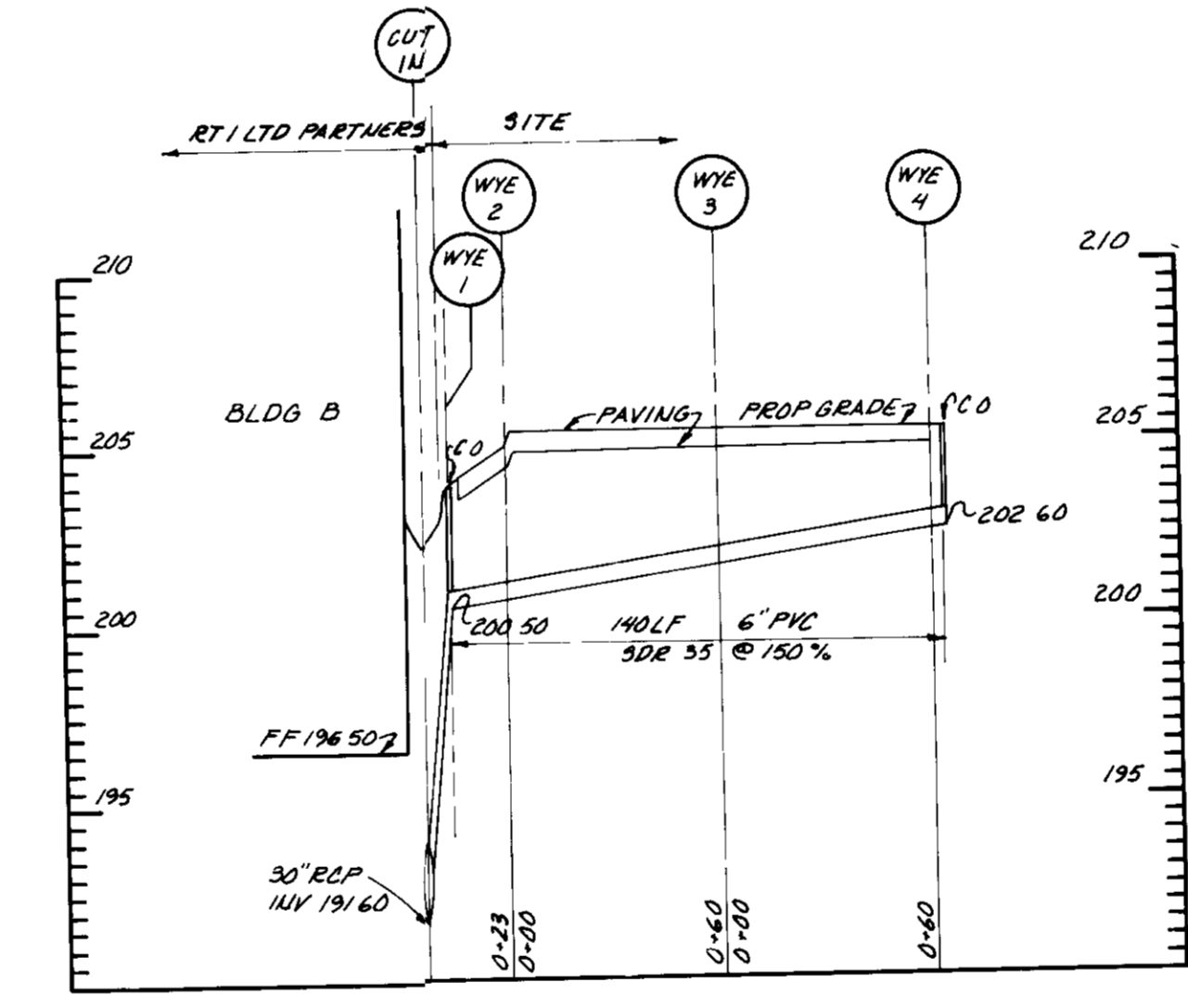
| LOT NUMBER | STREET ADDRESS |
|------------|--|
| PARCEL 30 | 7189 MONTEVIDEO ROAD WATERLOO, MD. 21227 |

SDP 88-104

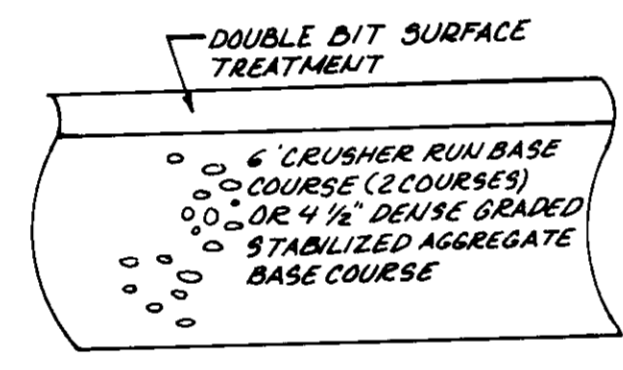
| | | | |
|----------------------------|---------------------|--|--|
| DRAWING NO. 8065-59-003 | SHEET NO. 1 of 2 | SITE DEVELOPMENT PLAN | |
| | | McCAHAN TRUCK EQUIPMENT SALES TAX MAP 43 PARCEL 30 7189 MONTEVIDEO ROAD 1ST ELECTION DISTRICT HOWARD CO., MD. | |



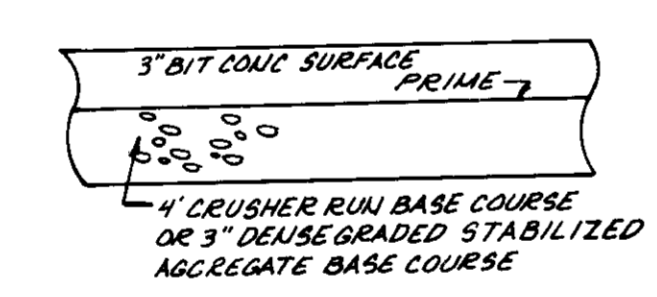
PLAN
SCALE 1"=50'



ROOF DRAIN PROFILE
SCALE: 1/8" = 1' VERT
1" = 50' HOR



P-7 PAVING SECTION
NO SCALE



P-8 PAVING SECTION
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPT.
James M. Boyd 7/26/88
DATE

APPROVED HOWARD COUNTY OFFICE
PLANNING AND ZONING
[Signature] 12.8.88
DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE
SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. [Signature] 12/28/88
DATE

REVIEWED FOR TOWNSHIP S.D.P. AND MEETS TECHNICAL REQUIREMENTS
OF SOIL CONSERVATION SERVICE
[Signature] 7/19/88
DATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS
A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE
CONDITION AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE
HOWARD COUNTY SOIL CONSERVATION DISTRICT.
[Signature] 10/26/87
DATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE
ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED
IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A
DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE
CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
I ALSO AUTHORIZES PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL
CONSERVATION DISTRICT.
[Signature] 10/27/87
DATE

APPROVED
DIVISION OF LAND USE
[Signature]
DATE 4-13-88

STV / LYON ASSOCIATES
Engineers Surveyors Planners
21 Governor's Court Baltimore, Maryland 21207
Telephone . 301-944-9112

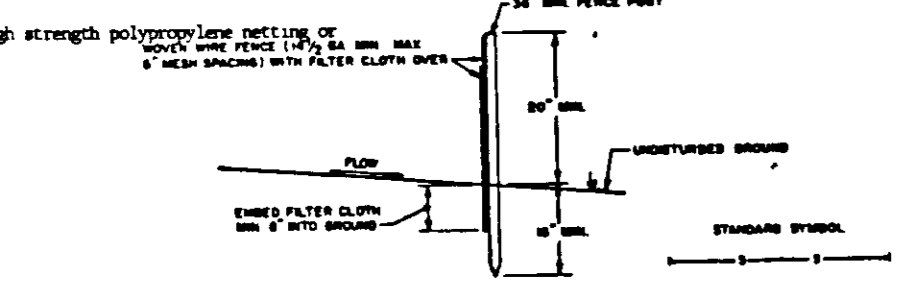
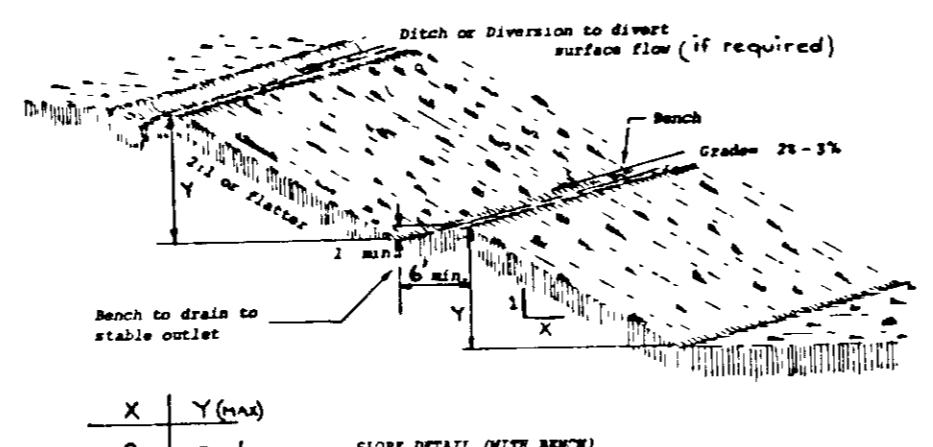
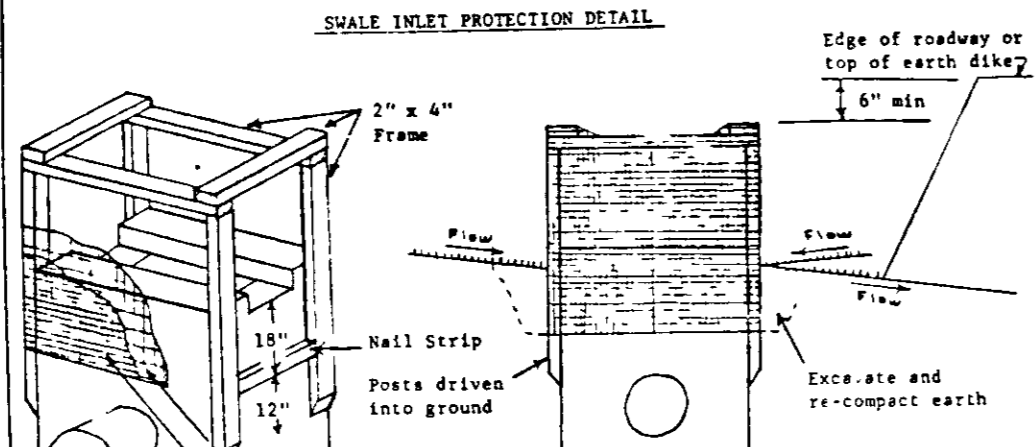
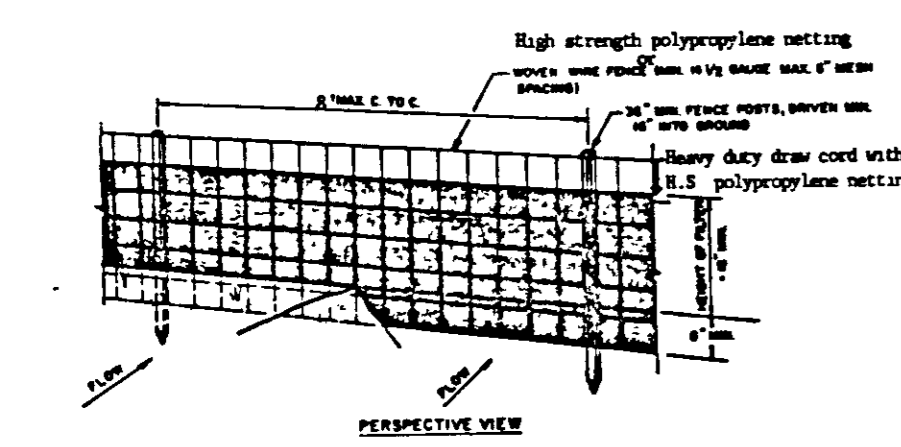
REVISIONS

| NO | DATE | DESCRIPTION |
|----|---------|---|
| 1 | 2-4-88 | PER COUNTY COMMENTS OF JAN. 11, 1988 |
| 2 | 3-11-88 | PROP DUMPSTER RELOCATION, PARKING SPACE ADDITIONS |
| 3 | 5-13-88 | PER COUNTY COMMENTS OF APRIL 26, 1988 |
| 4 | 7-18-88 | PER SDC COMMENTS |

OWNER / DEVELOPER
McCAHAN TRUCK EQUIPMENT SALES
C/O R.C. McCAHAN
7189 MONTEVIDEO RD.
JESSUP, MARYLAND 20794

PLAN PREPARATION

| | |
|-------------|----------|
| DRAWN BY | DATE |
| KEB | 11/6/87 |
| DESIGNED BY | SCALE |
| PCR | As Shown |
| CHECKED BY | |
| awr | |



CONSTRUCTION NOTES FOR PREPARED SILT FENCE

- High strength polypropylene netting of 100 mesh size to be fastened securely to fence posts with wire ties or staples.
- Use cloth to be fastened securely to fence posts with wire ties or staples.
- Keep the bottom of filter cloth above the silt fence to prevent mud from being carried by the silt fence.
- Maintenance shall be performed as needed to prevent mud from being carried by the silt fence.

II Procedure

- A. Silt Inlet Protection**
 - Excavate completely around inlet to a depth of 18" below notch elevation.
 - Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh. The cloth must extend from top of frame to 18" below inlet notch -1/4". Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
 - Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct a connected earth dike to the ditchline below it. The top of this dike to be at least 6" higher than the top of frame (weir).
 - This structure must be inspected frequently and the filter fabric replaced when clogged.
- B. Curb Inlet Protection**
 - Attach a continuous piece of wire mesh (30" min width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the drawing.
 - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to 9" long vertical stakes to be located between the weir and inlet face (max 6" apart).
 - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spaced locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.

| X | Y (ft) |
|---|--------|
| 2 | 20' |
| 3 | 30' |
| 4 | 40' |

Construction Specifications

- All graded or disturbed areas including slopes shall be protected during clearing and construction in accordance with the approved sediment control plan until they are permanently stabilized.
- All sediment control practices and measures shall be constructed, applied and maintained in accordance with the approved sediment control plan and the Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas.
- Topsoil required for the establishment of vegetation shall be stockpiled in amount necessary to complete finished grading of all exposed areas.
- Areas to be filled shall be cleared, grubbed and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
- Areas which are to be stockpiled shall be sacrificed to a minimum depth of three inches prior to placement of topsoil.
- All fills shall be compacted as required to reduce erosion, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or codes.
- All fill shall be placed and compacted in layers not to exceed 8 inches in thickness.
- Except for approved landfills or nonstructural fills, fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fills.
- Frozen material or soft, mucky or highly compressible materials shall not be incorporated into fill slopes or structural fills.
- Fill shall not be placed on a frozen foundation.
- All benches shall be kept free of sediment during all phases of development.
- Seeps or springs encountered during construction shall be handled in accordance with the Standard and Specification for Subsurface Drain or other approved methods.
- All graded areas shall be permanently stabilized immediately following finished grading.
- Stockpiles, borrow areas, and spoil areas shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.

SILT FENCE

LANDGRADING

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-13-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD CO HEALTH DEPT
James M. Bond, MD. 7/26/88
COUNTY HEALTH OFFICER DATE

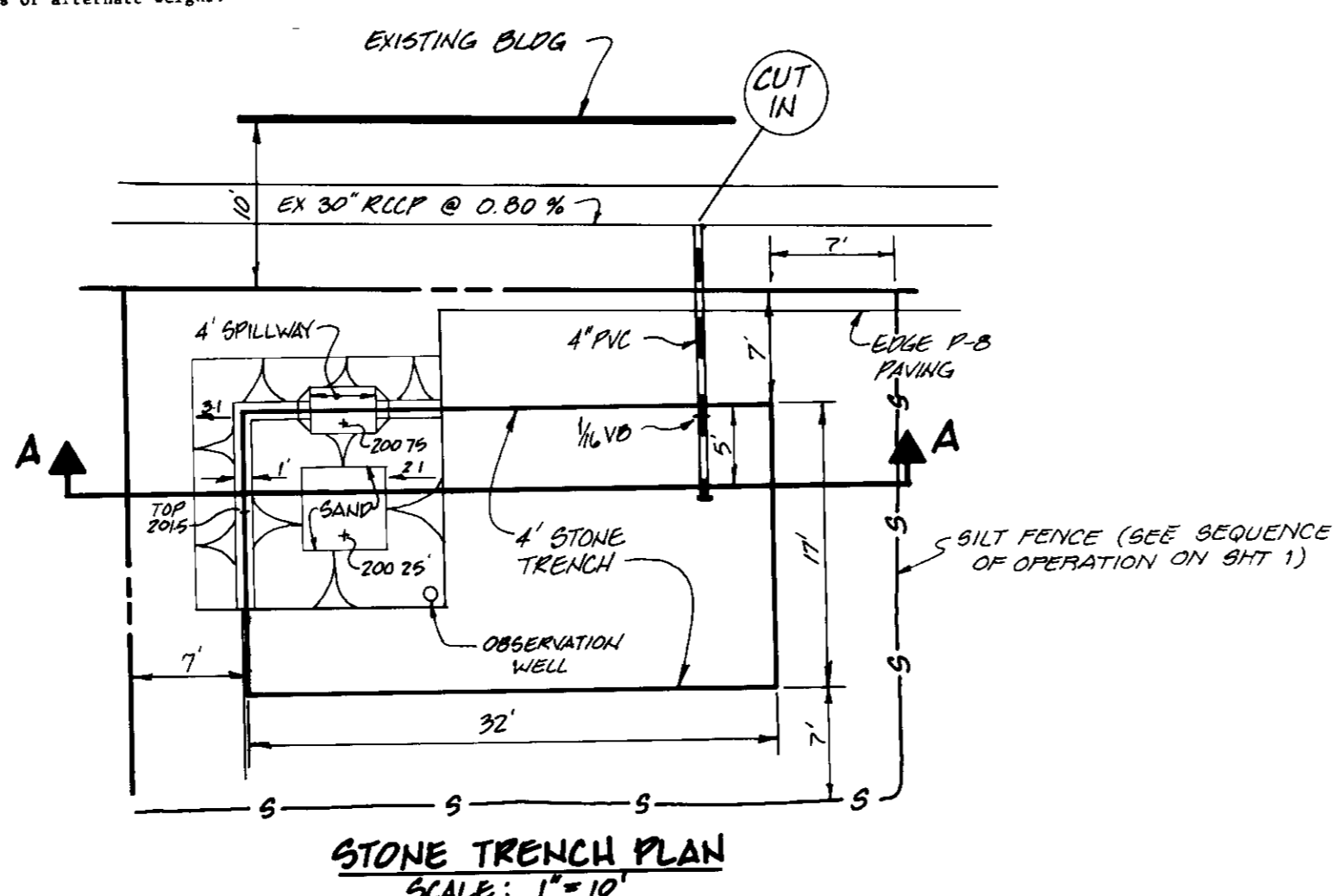
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR 8-3-88
Date
Marilyn J. J. 2-12-88
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPT. OF PUBLIC WORKS
2/22/88
DATE
2/22/88
DATE
CHIEF, BUREAU OF ENGINEERING DATE

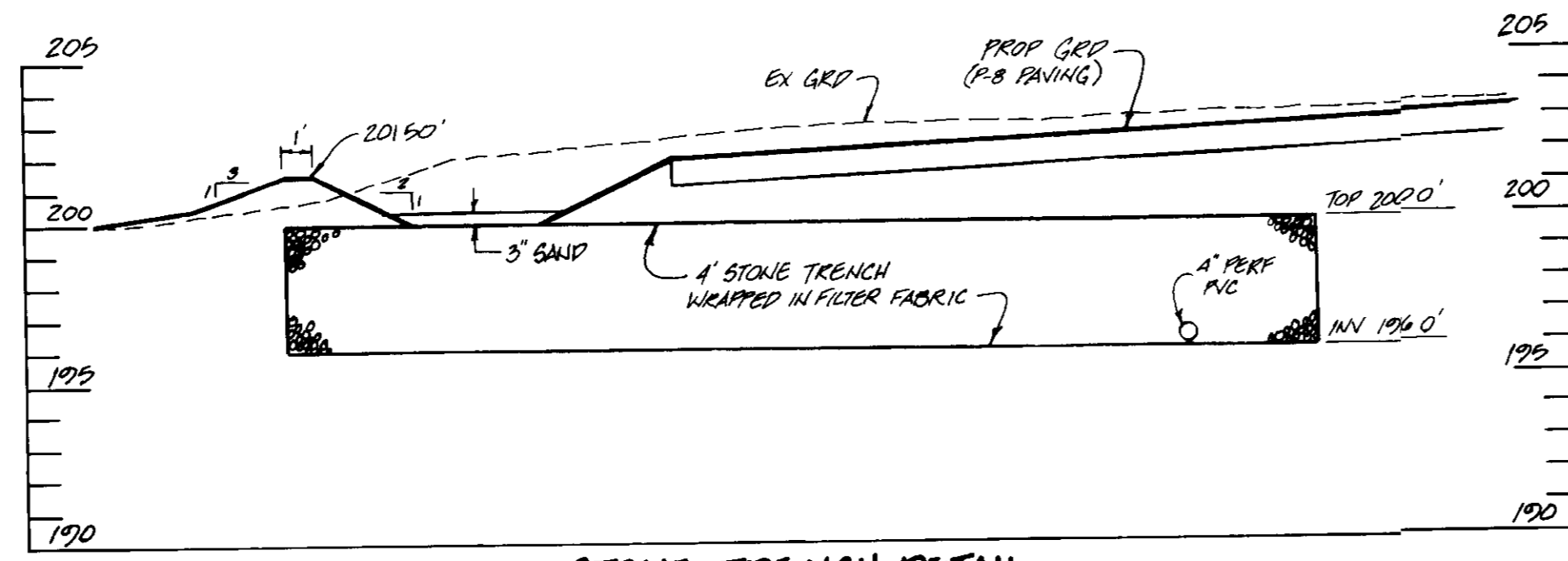
REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
US SOIL CONSERVATION SERVICE
7/19/88
DATE
THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
7/19/88
DATE
SOIL CONSERVATION DISTRICT

ENGINEERS CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITION AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
11/6/87
DATE
ENGINEER

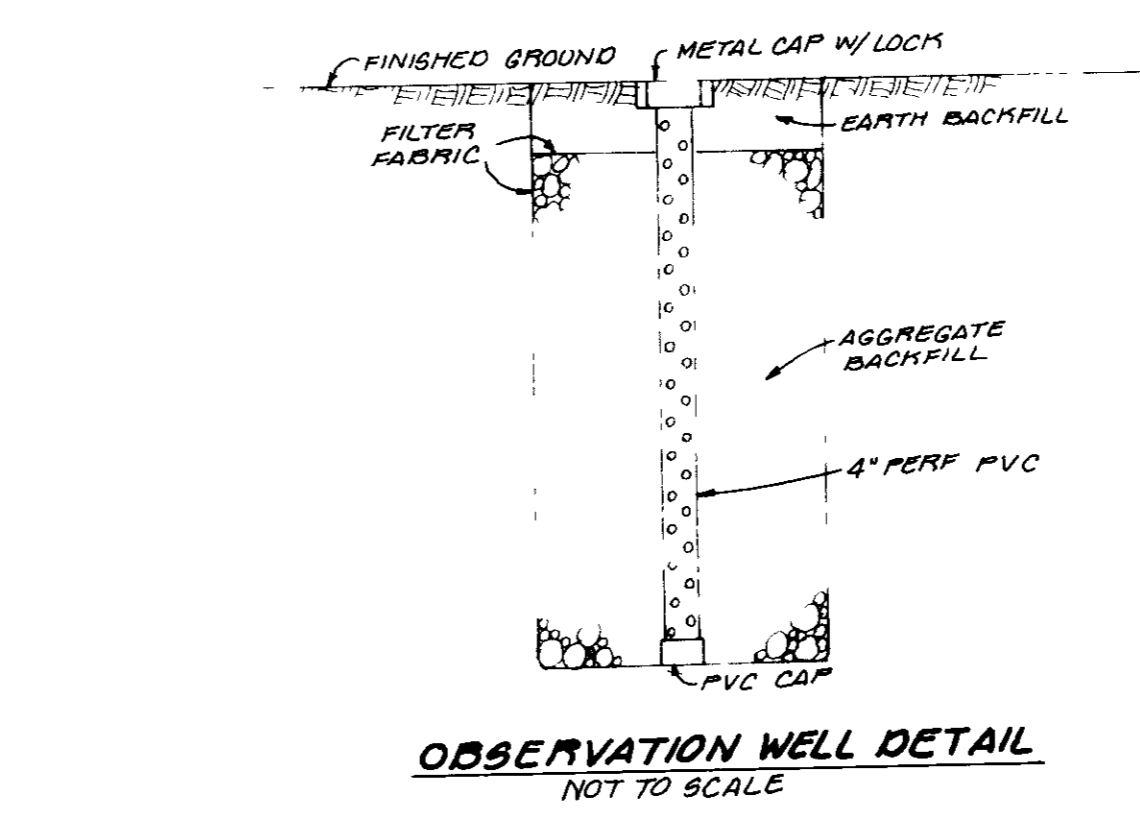
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
11/6/87
DATE
SIGNATURE OF DEVELOPER



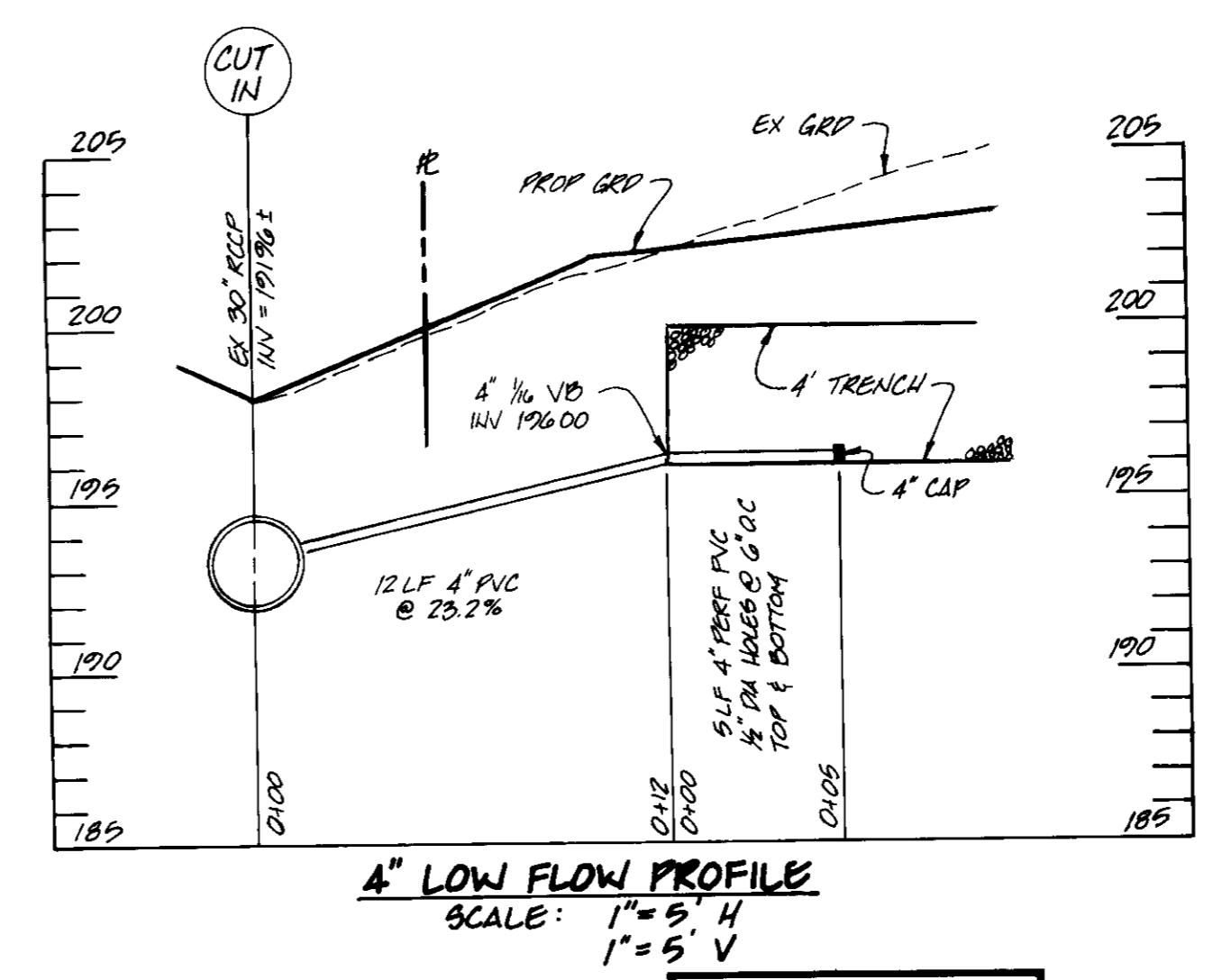
STONE TRENCH PLAN
SCALE: 1" = 10'



STONE TRENCH DETAIL
SECTION A-A
SCALE: 1" = 5', 1" = 5' V



OBSERVATION WELL DETAIL
NOT TO SCALE



SDP 88-104

CONSTRUCTION SPECIFICATIONS

TRENCH PREPARATION
EXCAVATE THE TRENCH TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE TRENCH SURFACE TO ENHANCE TRENCH WALL STABILITY. LARGE TREE ROOTS MUST BE REMOVED FROM THE TRENCH SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS OF THE TRENCH SHALL BE REINFORCED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT BACKFILL MATERIAL.

AGGREGATE BACKFILL
THE AGGREGATE MATERIAL FOR THE INFILTRATION TRENCH SHALL CONSIST OF A CLEAN AGGREGATE WITH A MAXIMUM SIZE OF 1/2". THE AGGREGATE SHOULD BE PLACED SUCH THAT THERE WILL BE FEW AGGREGATES SMALLER THAN THE SELECTED SIZE VOID SPACE FOR THESE AGGREGATES ARE ASSUMED TO BE BETWEEN THE RANGE OF 30 TO 40 PERCENT.

FILTER FABRIC
THE FILTER FABRIC SHALL BE COMPLETELY SURROUNDED AS SHOWN WITH AN ENGINEERING FILTER FABRIC IN THE CASE OF AN AGGREGATE SURFACE. FILTER FABRIC SHOULD SURROUND ALL OF THE AGGREGATE FILL MATERIAL EXCEPT FOR THE TOP ONE FOOT FABRIC LAYDOWN.

FABRIC CUTTING
THE FILTER FABRIC ROLL MUST BE CUT TO THE PROPER WIDTH PRIOR TO INSTALLATION. THE CUT WIDTH MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO TRENCH PERIMETER IRREGULARITIES AND FOR A 6-INCH MINIMUM TOP OVERLAP. PLACE THE FABRIC ROLL OVER THE TRENCH AND UNROLL A SUFFICIENT LENGTH TO ALLOW PLACEMENT OF THE FABRIC DOWN INTO THE TRENCH STONES OR OTHER ANCHORING OBJECTS SHOULD BE PLACED ALONG THE FABRIC AT THE EDGE OF THE TRENCH TO KEEP THE LINED TRENCH OPEN DURING WINDY PERIODS. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS, THE UPSTREAM ROLL SHOULD BE A MINIMUM OF 2 FEET OVER THE DOWNSTREAM ROLL IN ORDER TO PROVIDE A SHINGLED EFFECT. THE OVERLAP ENSURES FABRIC CONTINUITY OR TO ENSURE THAT THE FABRIC CONFORMS TO THE EXCAVATION SURFACE DURING AGGREGATE PLACEMENT AND COMPACTION.

OVERLAPPING AND COVERING
FOLLOWING THE STONE AGGREGATE PLACEMENT, THE FILTER FABRIC SHALL BE FOLDED OVER THE STONE AGGREGATE TO FORM A MINIMUM LONGITUDINAL LAP. THE DESIRED FILL SIDE OF STONE AGGREGATE SHALL BE PLACED OVER THE LAP AT SUFFICIENT INTERVALS TO MAINTAIN THE LAP DURING SUBSEQUENT BACKFILLING.

VOIDS
VOIDS CAN BE CREATED BETWEEN THE FABRIC AND EXCAVATION SIDES AND SHALL BE AVOIDED. REMOVING BOULDERS OR OTHER OBSTACLES FROM THE TRENCH WALLS IS ONE SOURCE OF SUCH VOIDS. NATURAL SOILS SHOULD BE PLACED IN THESE VOIDS AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES. SOIL PILING, FABRIC CLOGGING, AND POSSIBLE SURFACE SUBSIDENCE WILL BE AVOIDED BY THIS REMEDIAL PROCESS.

STONE AGGREGATE PLACEMENT AND COMPACTION
THE STONE AGGREGATE SHOULD BE PLACED IN LIFTS AND COMPACTED USING PLATE COMPACTORS AS A RULE OF THUMB, A MAXIMUM LOOSE LIFT THICKNESS OF 12 INCHES IS RECOMMENDED. THE COMPACTION PROCESS ENSURES FABRIC CONFORMITY TO THE EXCAVATION SIDES, THEREBY RESOLVING THE POTENTIAL FOR SOIL PILING, FABRIC CLOGGING, AND SETTLEMENT PROBLEMS.

OBSERVATION WELL
THE DEPTH OF THE WELL AT THE TIME OF INSTALLATION WILL BE CLEARLY MARKED ON THE WELL CAP.

Site Analysis

| | |
|------------------------------------|-------------|
| Total Area of Site | 1.8 Acres |
| Area Disturbed | 1.15 Acres |
| Area to be roofed or paved | 1.15 Acres |
| Area to be vegetatively stabilized | 0.65 Acres |
| Total Cut | 0.7 Cu. Yds |
| Total Fill | 0.7 Cu. Yds |
| Offsite waste/borrow area location | N/A |

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Maintenance prior to the start of any construction. (892-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Topsoil required for the establishment of vegetation shall be stockpiled in amount necessary to complete finished grading of all exposed areas.
- Areas to be filled shall be cleared, grubbed and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
- Areas which are to be stockpiled shall be sacrificed to a minimum depth of three inches prior to placement of topsoil.
- All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or codes.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Inspector.
- Site Analysis:

| | |
|------------------------------------|-------------|
| Total Area of Site | 1.8 Acres |
| Area Disturbed | 1.15 Acres |
| Area to be roofed or paved | 1.15 Acres |
| Area to be vegetatively stabilized | 0.65 Acres |
| Total Cut | 0.7 Cu. Yds |
| Total Fill | 0.7 Cu. Yds |
| Offsite waste/borrow area location | N/A |
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

STV / LYON ASSOCIATES
Engineers Surveyors Planners
21 Governor's Court Baltimore, Maryland 21207
Telephone : 301-944-9112

REVISIONS

| NO | DATE | DESCRIPTION |
|----|---------|---------------------------------------|
| 1 | 2-4-88 | PER COUNTY COMMENTS OF JAN 11, 1988 |
| 2 | 5-13-88 | PER COUNTY COMMENTS OF APRIL 26, 1988 |

OWNER DEVELOPER
McCAHAN TRUCK EQUIPMENT SALES
C/O DC McCAHAN
7189 MONTEVIDEO RD
JESSUP, MD 20794

PLAN PREPARATION
DRAWN BY K.E.B. DATE 11-6-87
DESIGNED BY PCR SCALE AS SHOWN
CHECKED BY AWK

SITE DEVELOPMENT PLAN
McCAHAN TRUCK EQUIPMENT SALES
TAX MAP 43 7189 MONTEVIDEO ROAD PARCEL 30
IST ELECTION DISTRICT HOWARD CO, MD

DRAWING NO.
8065-59-003
SHEET NO.
2 of 2
SDP-88-104