

REVIEWED NO FACILITIES REQUIRED

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
JAMES M. BOYD, COUNTY HEALTH OFFICER, 1/24/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

JAMES S. BATTEN, DIRECTOR, 1/27/92
SHARMA H. HANMUT, CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT, 1/27/92

APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
JAMES M. BOYD, DIRECTOR, 1/24/92
JAMES S. BATTEN, CHIEF, BUREAU OF ENGINEERING, 1/24/92

APPROVAL STAMP

Added note to see sheets 16 & 17 crossed out on DA Map Revised sheet #s 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF: LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER: NONE
SEWER: NONE

JANUARY 24, 1992

REVISION 01/17/00 PROPOSED IN-LINE SKATE RINK

J. CHRISTOPHER BATTEN, INC. Land Planning & Design Consultant
8 North Church Street Westminister, Maryland 21157 301-876-3383
SHEET S-8 SDP 20 of 38 of 20 SDP 9-2-92

MANHOLE SCHEDULE

Table with columns: No., Type, Size, Inv., Out, Rim Elev. Includes entries M-1 through M-3.

INLET SCHEDULE

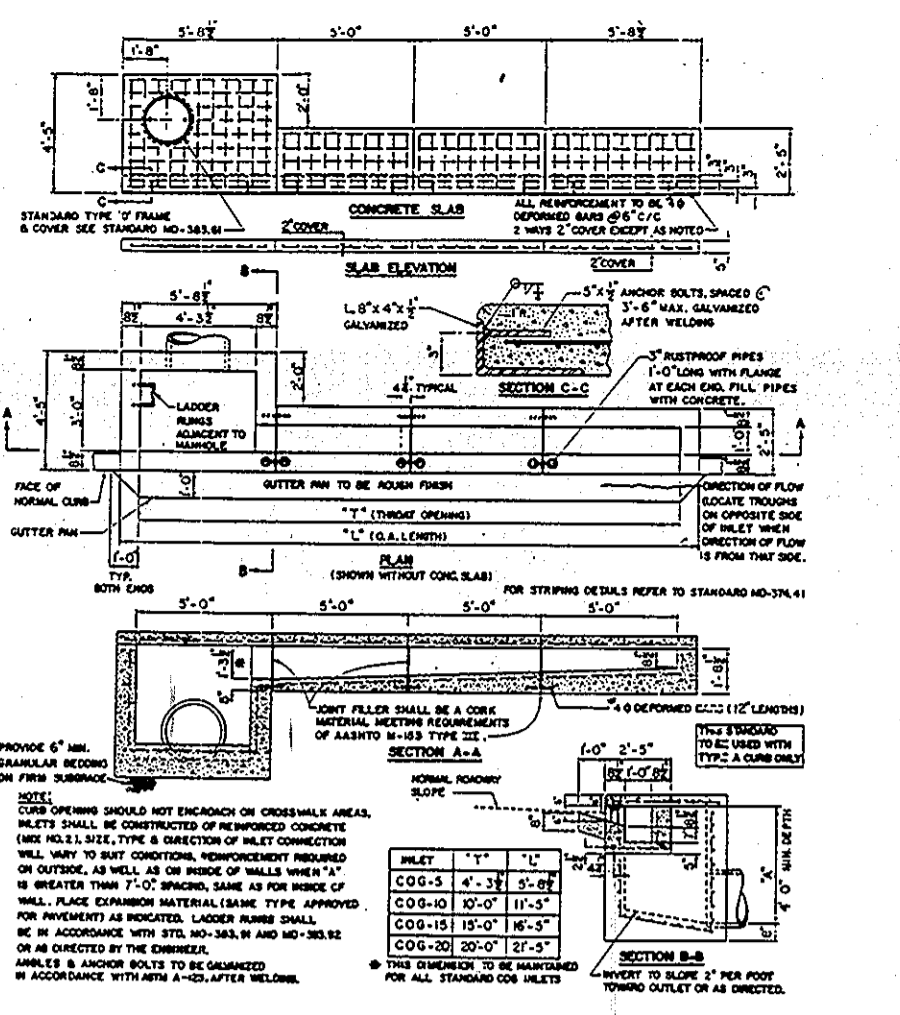
Table with columns: No., Type, Q cfs, Inv., Out, Rim Elev. Includes entries I-1 through I-15.

OUTLET SCHEDULE

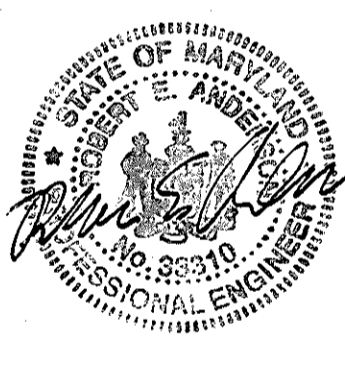
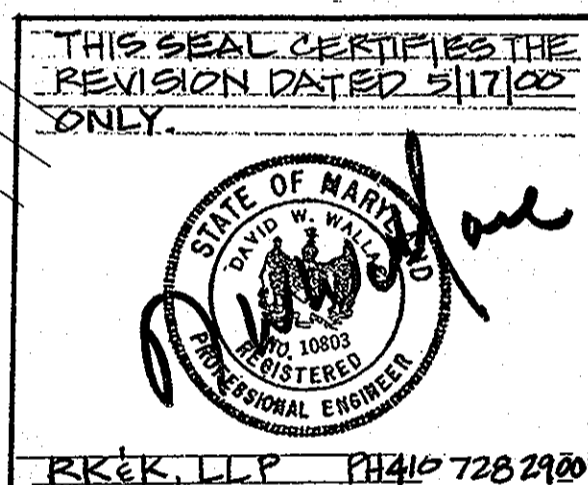
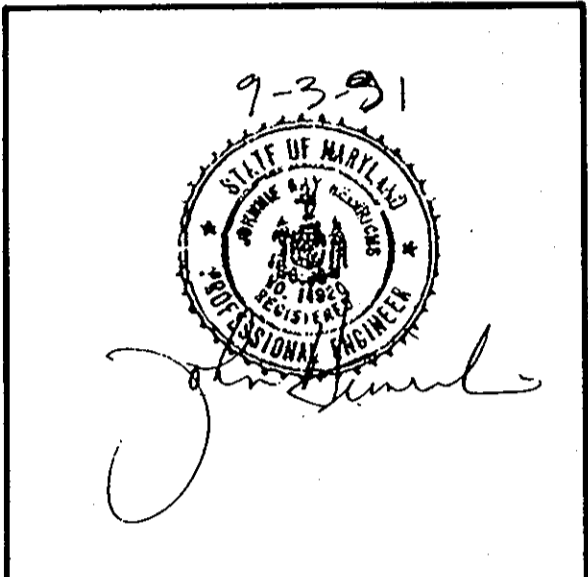
Table with columns: Struct. No., Disch. CFS, Pipe Dia., Length of Apron, Width of Apron, Stone Size. Includes entries S-1 through S-8.

DRAINAGE AREA RUNOFF DATA

Table with columns: STRUCTURE, AREA (acres), C, Q (CFS). Includes entries I-1 through I-15 and S-10, S-2, C-2.



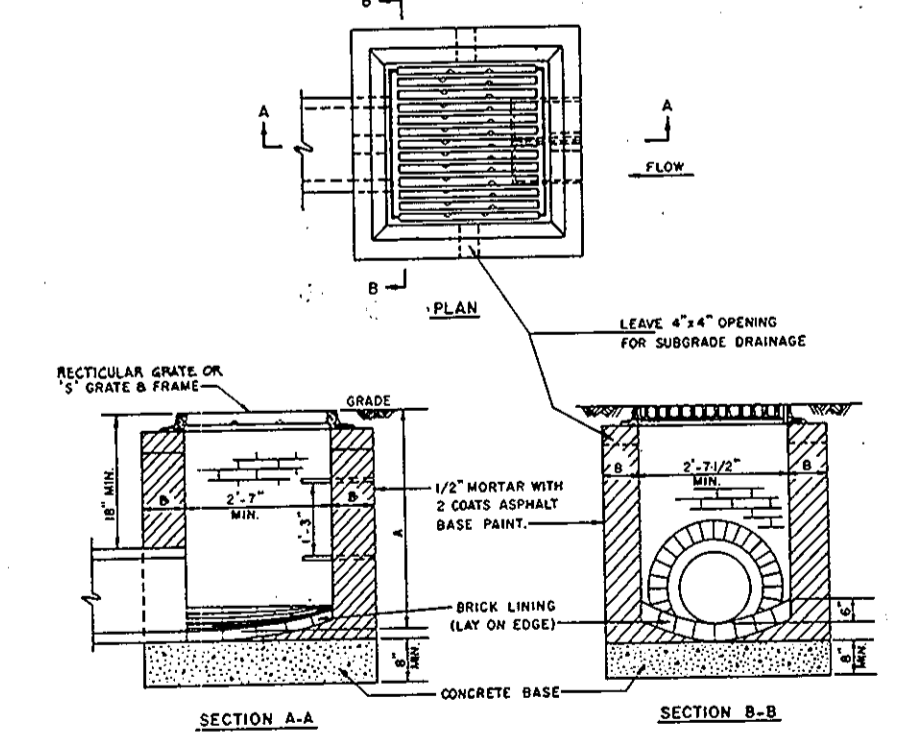
STANDARD 10" COG INLET NTS MARYLAND S.H.A. STD. NO. MD-374.31



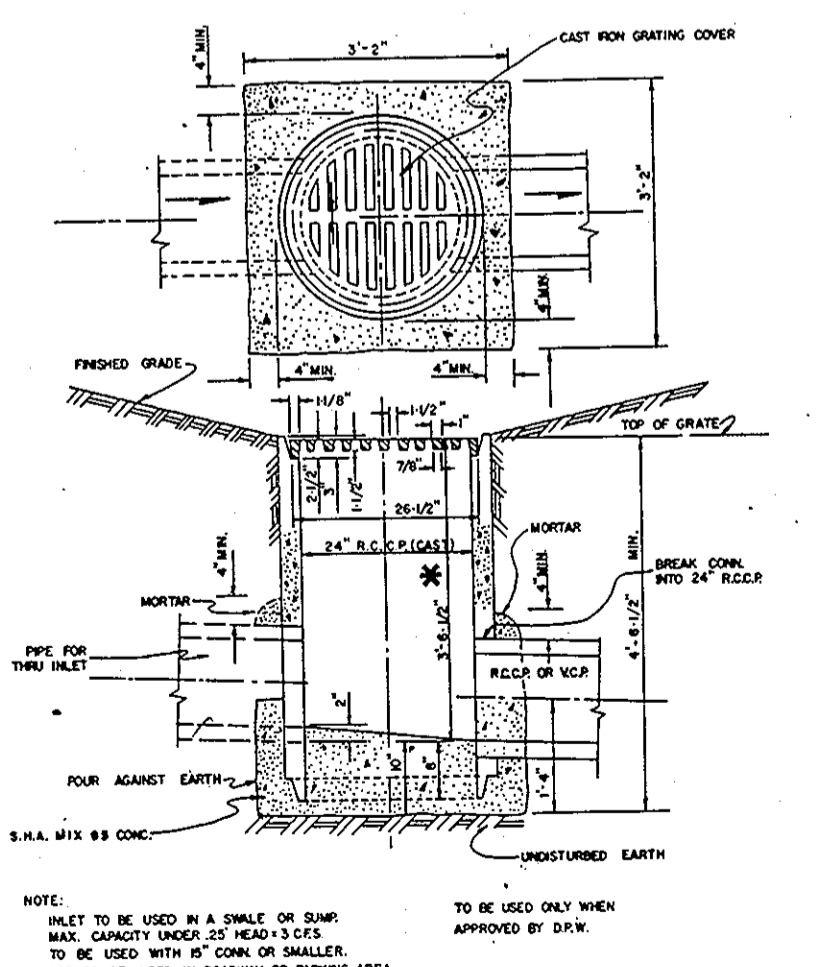
THIS SEAL CERTIFIES THE REVISION DATED 5-29-2012 ONLY
Professional Certification I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland License No. 33310 Expiration Date 7-2-2012

* EXTENDED DEPTH INLETS WILL REQUIRE 24" RCCP LONGER THAN 4 FEET.

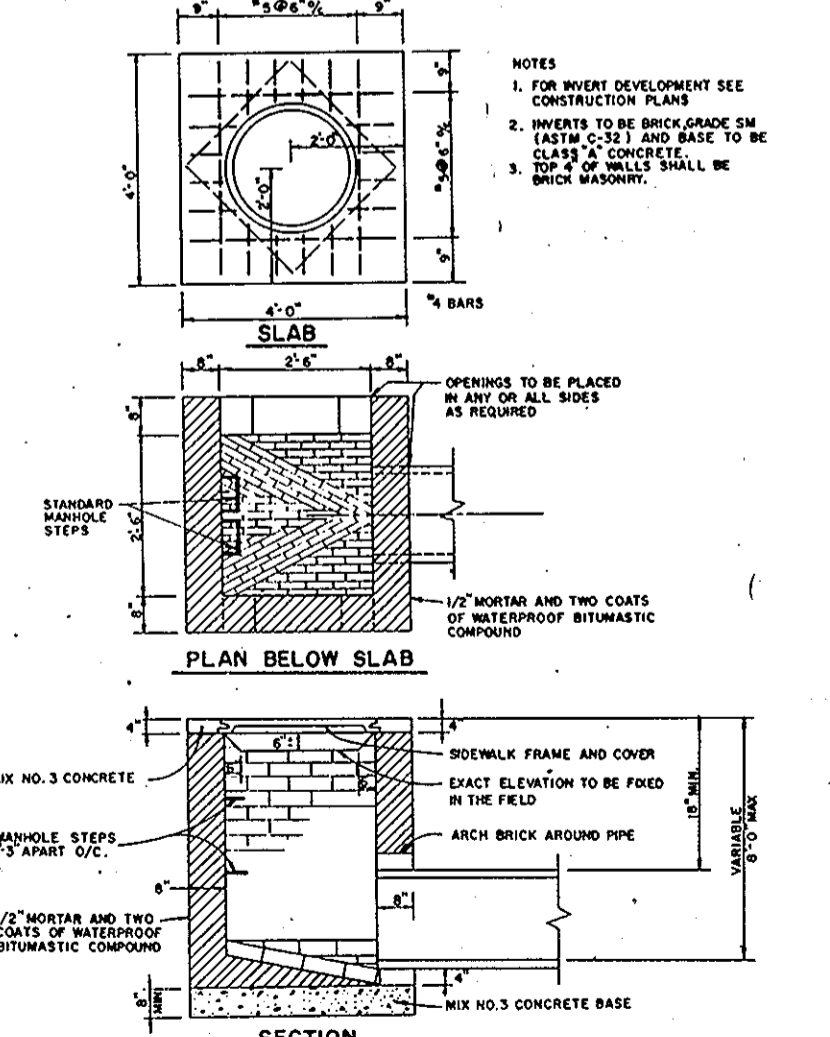
FOR DRAINAGE AREA SEE SHEETS 16 & 17



TYPE "S" INLET NTS



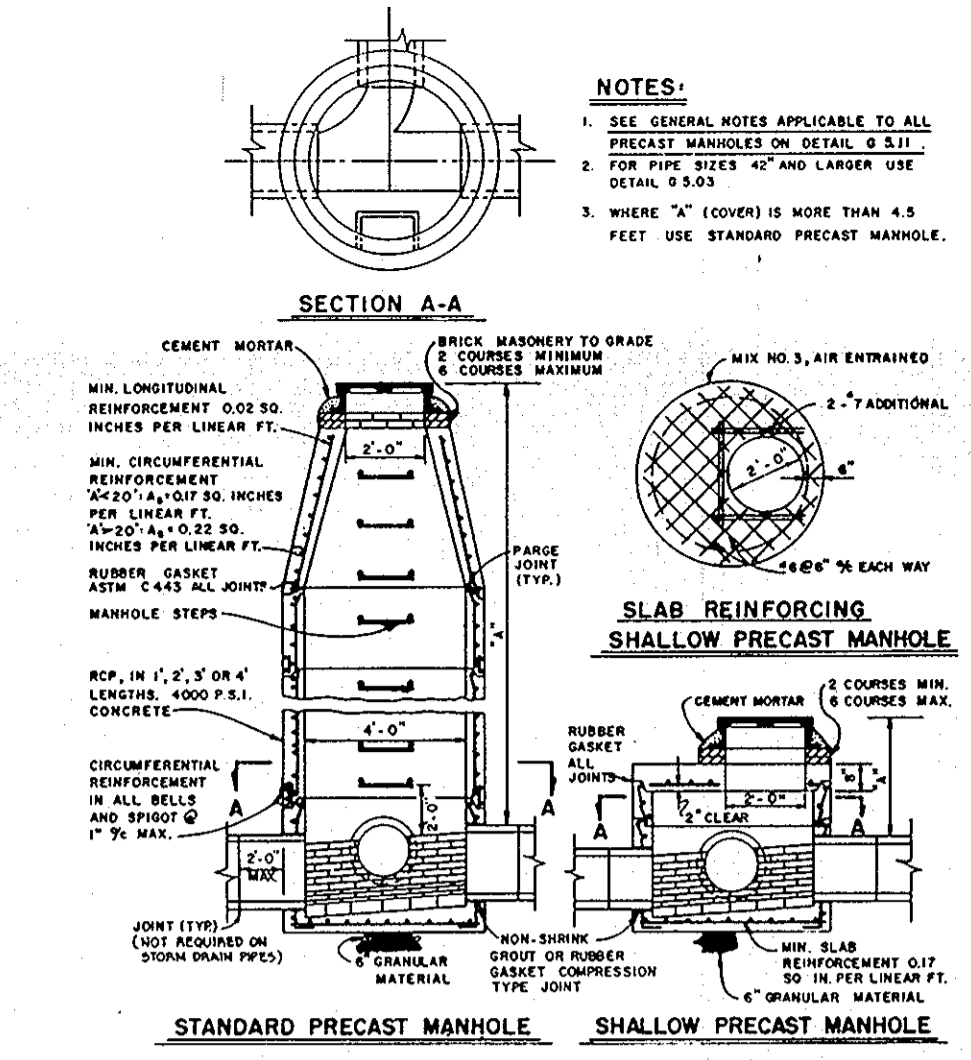
YARD INLET NTS



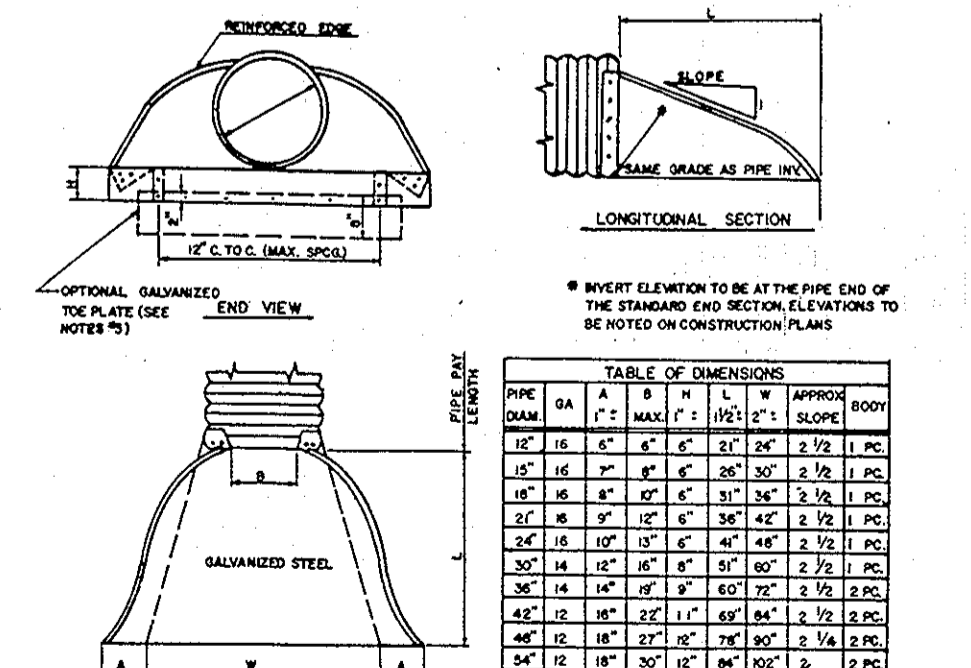
TYPE "D" INLET GRATE NTS

STORM DRAIN COORDINATES

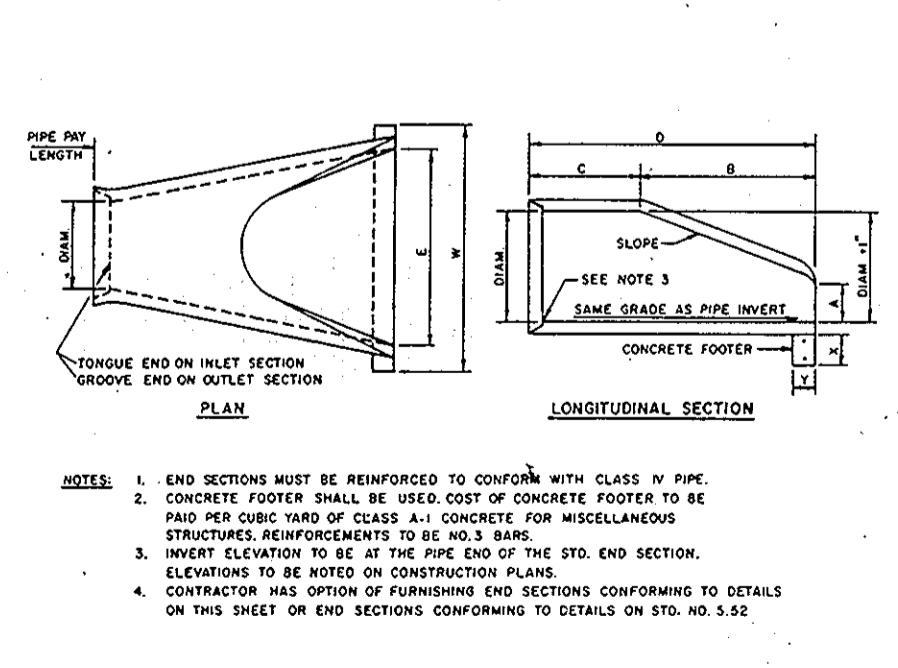
Table with columns: POINT NO., STRUCTURE, NORTH, EAST. Lists coordinates for structures I-1 through I-15 and S-1 through S-10.



PRECAST MANHOLE NTS



METAL END SECTION NTS



CONC. END SECTION NTS

METAL END SECTION

CONC. END SECTION

NTS

NTS

STORM DRAIN AREAS, DATA, DETAILS AND STRUCTURE SCHEDULE

SCALE: 1" = 100'

XXAL-92-5008

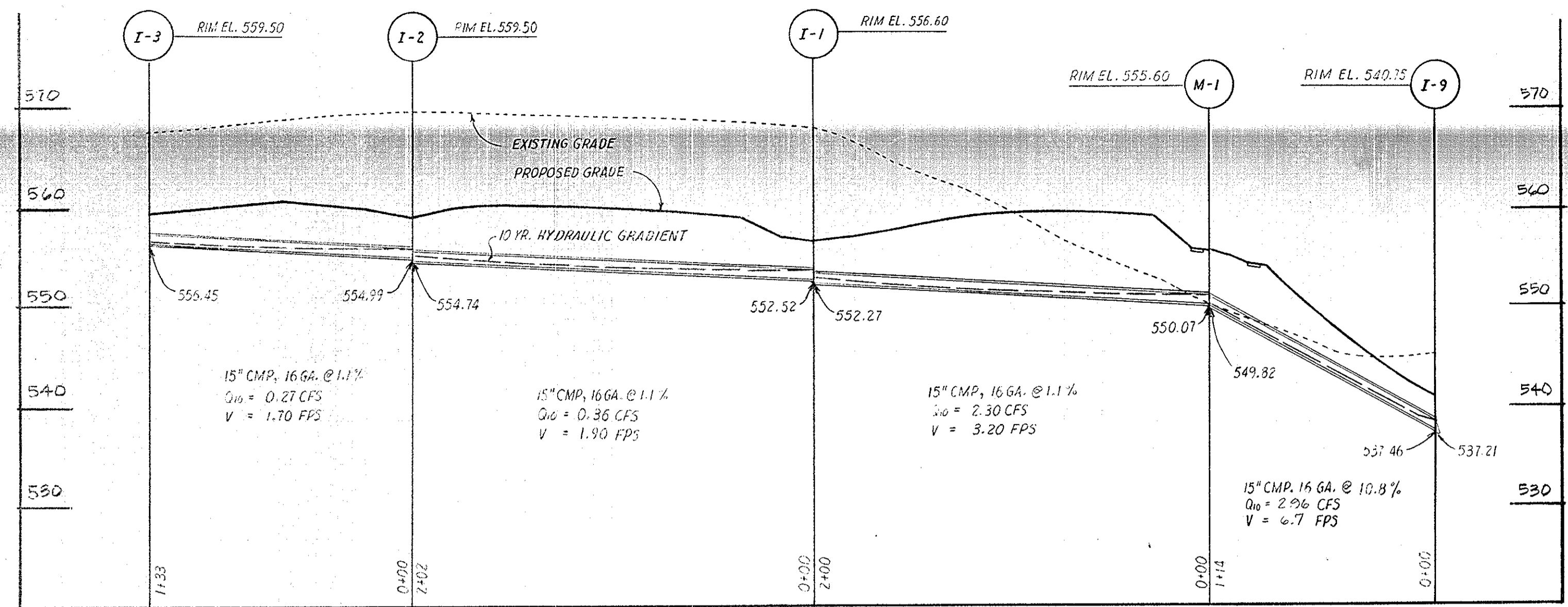
SDP-90-18

REVIEWED NO FACILITIES REQUIRED

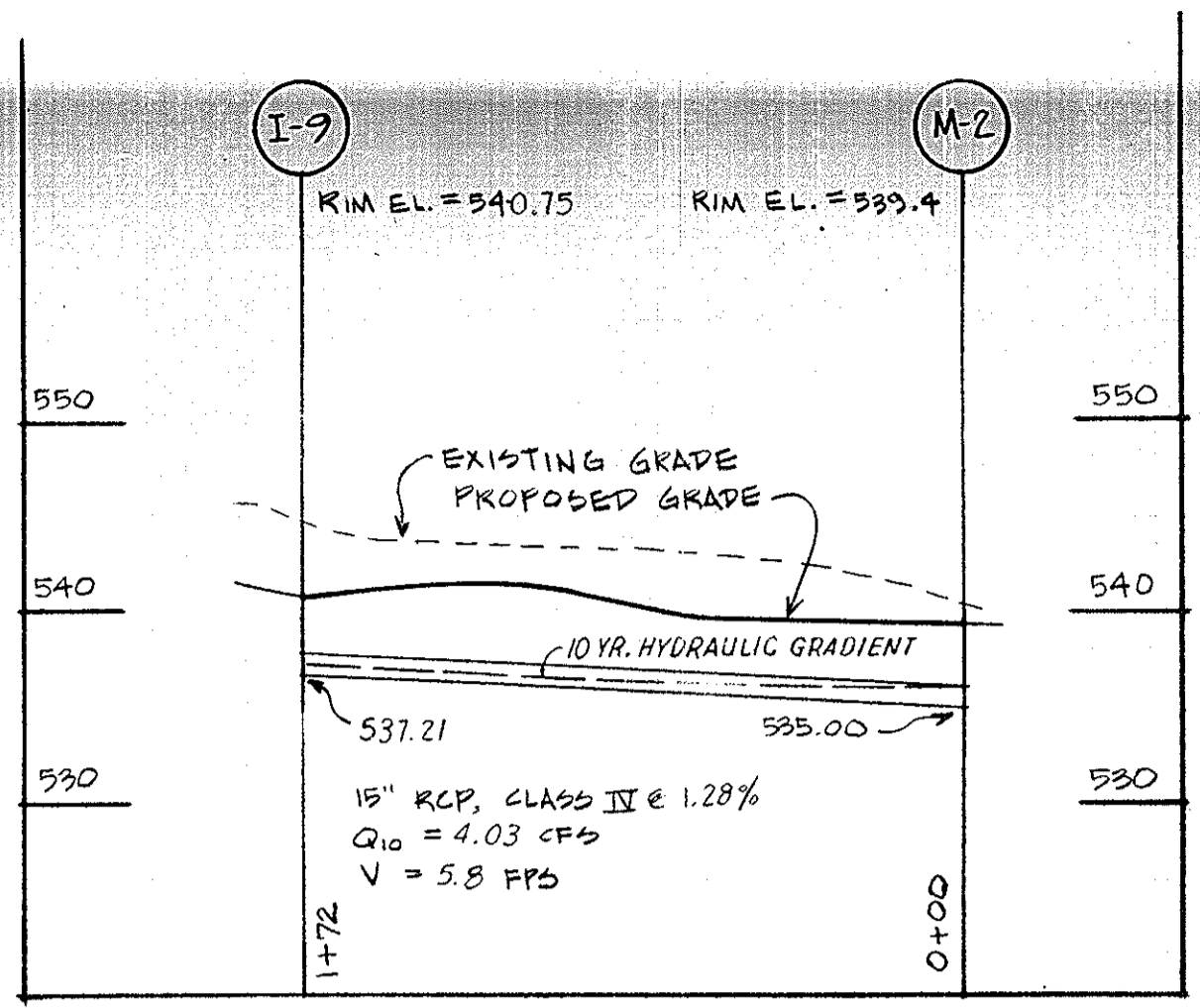
HOWARD COUNTY HEALTH DEPARTMENT
Jorge M. Rodriguez 1/24/12
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR
James G. Smith 1/27/12
DATE
Emma Helms 1/21/12
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

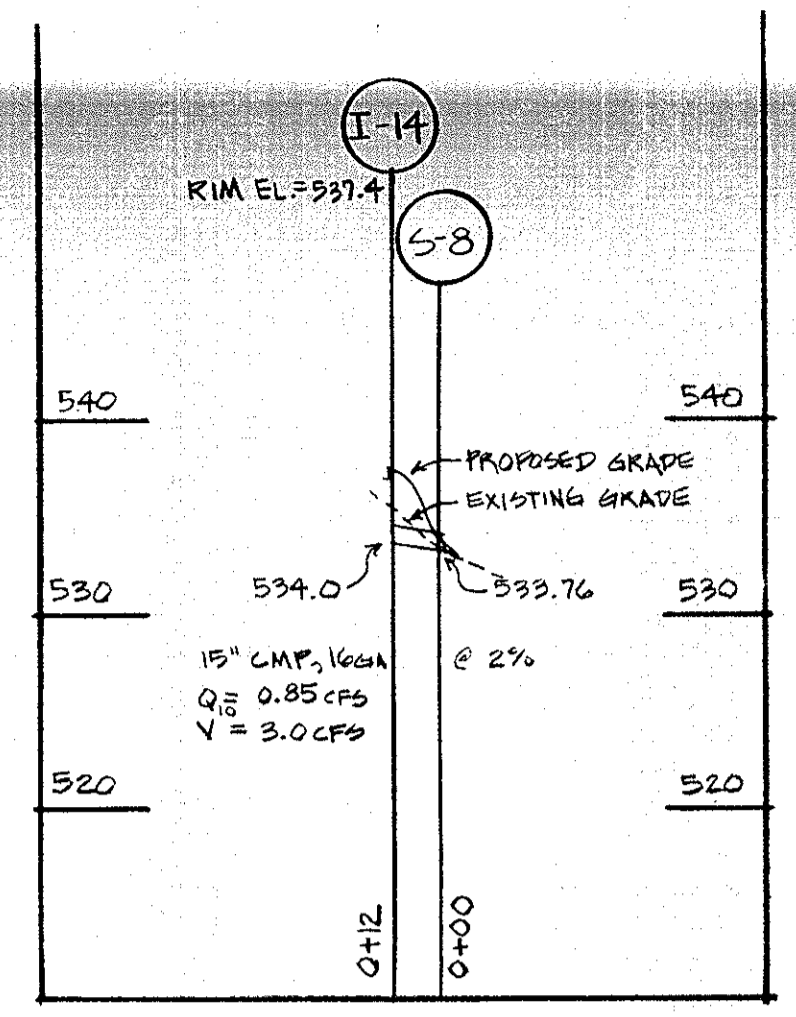
APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
James G. Smith 1/24/12
DATE
Russell S. Tracy 1/24/12
CHIEF, BUREAU OF ENGINEERING DATE



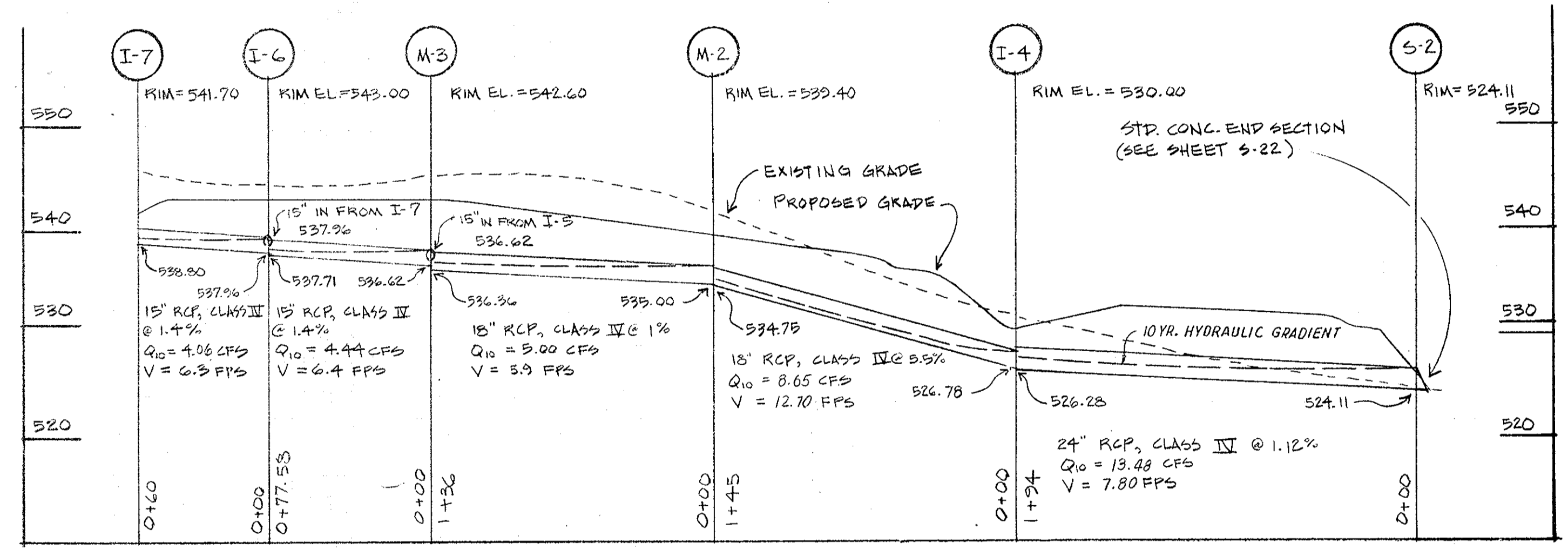
INLET 3 to INLET 9



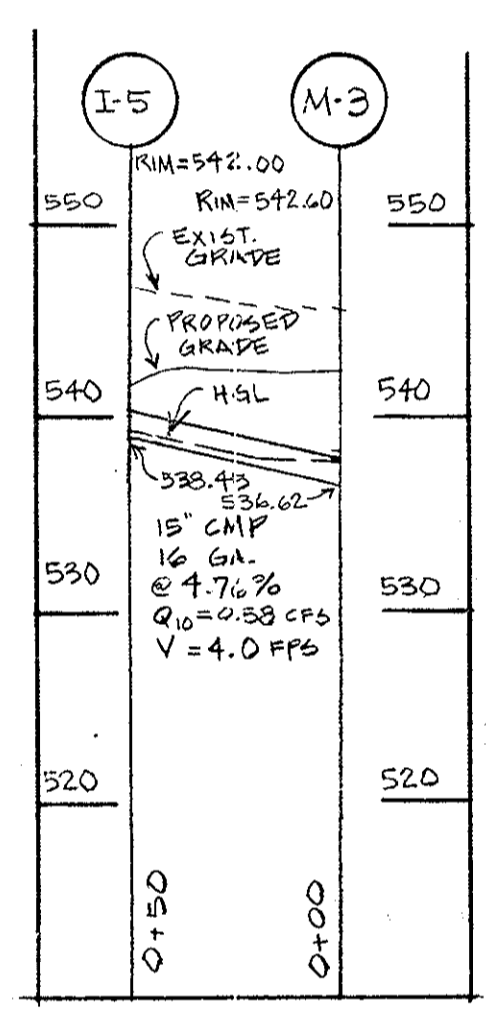
INLET 9 to MANHOLE 2



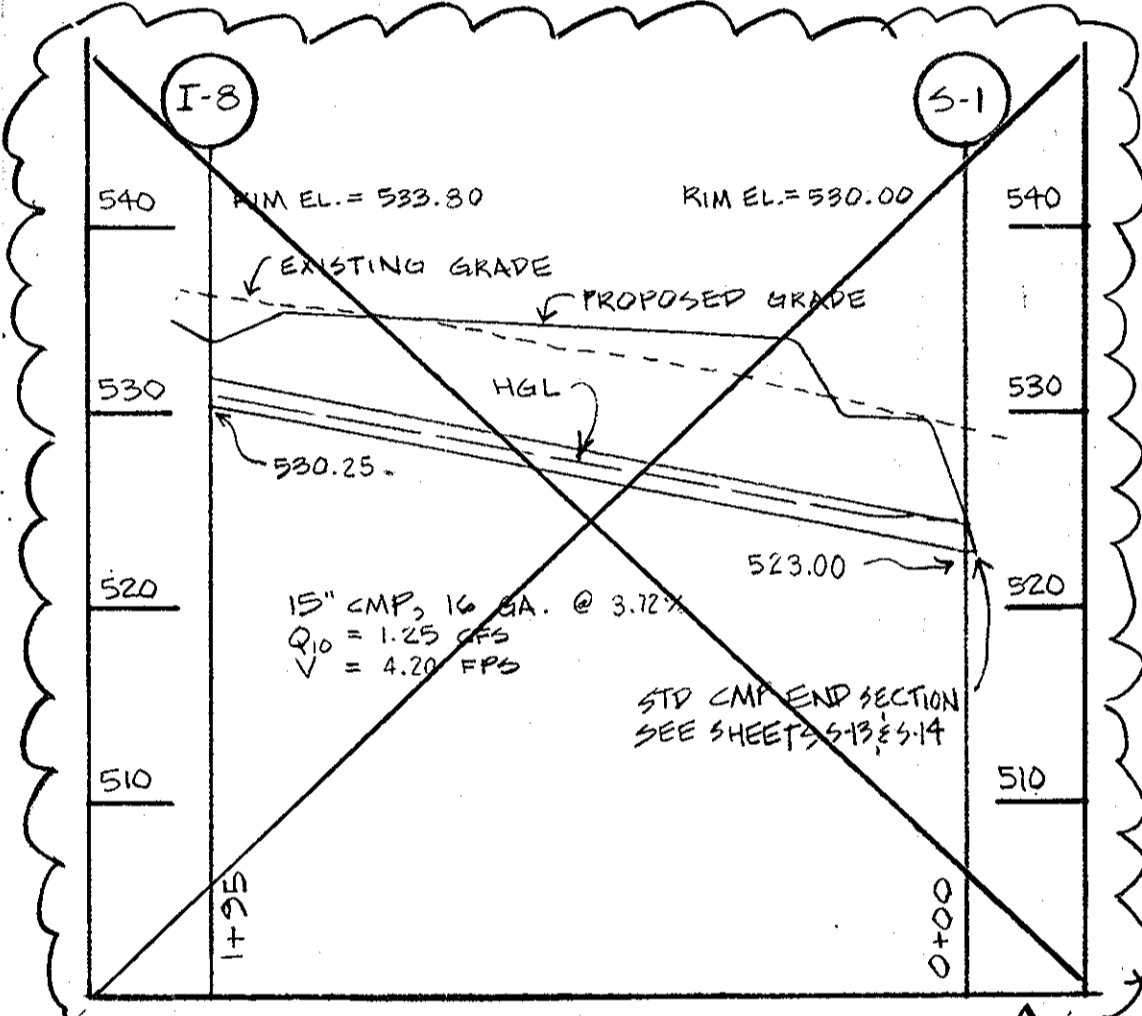
INLET 14 to STRUCTURE 8



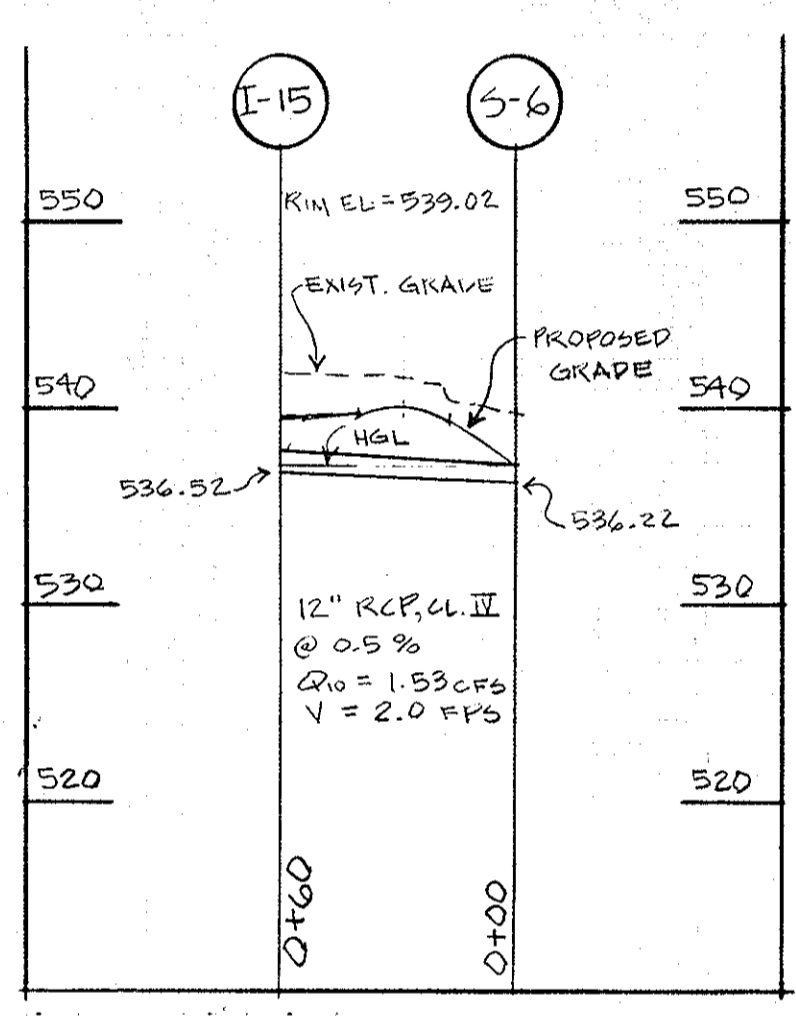
INLET 7 to STRUCTURE 2



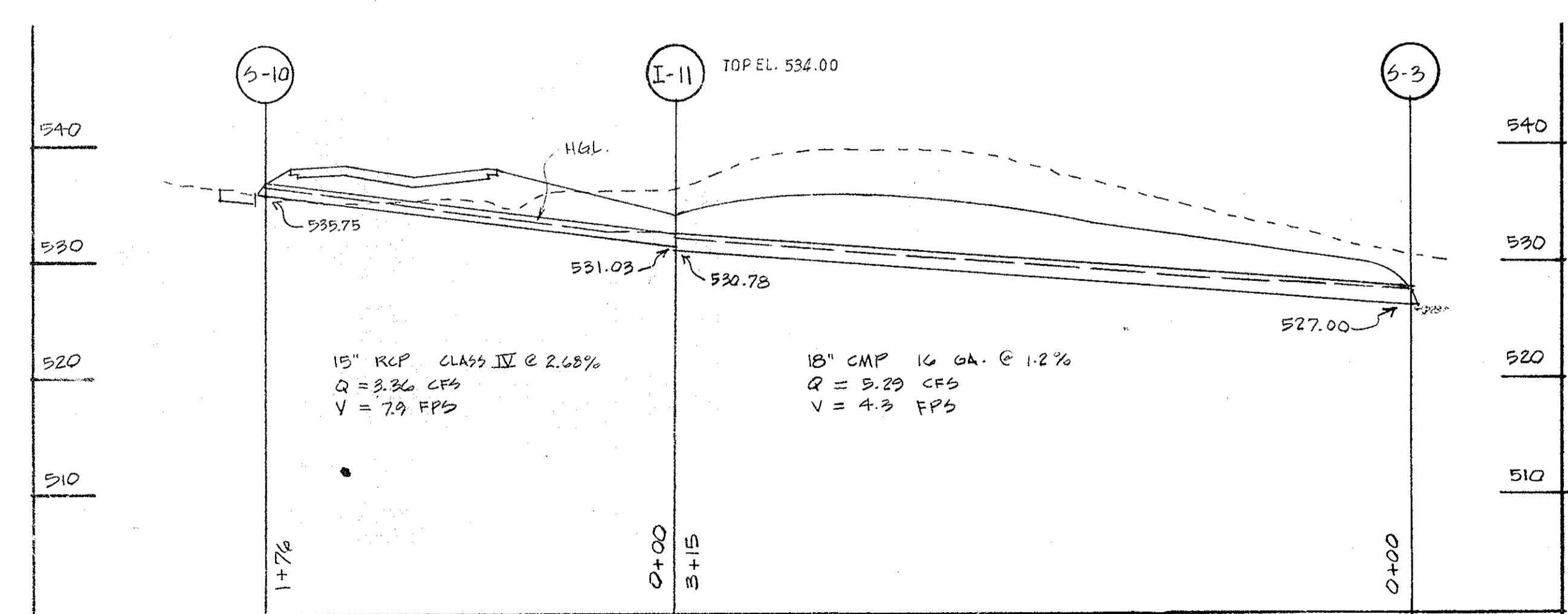
I-5 to M-3



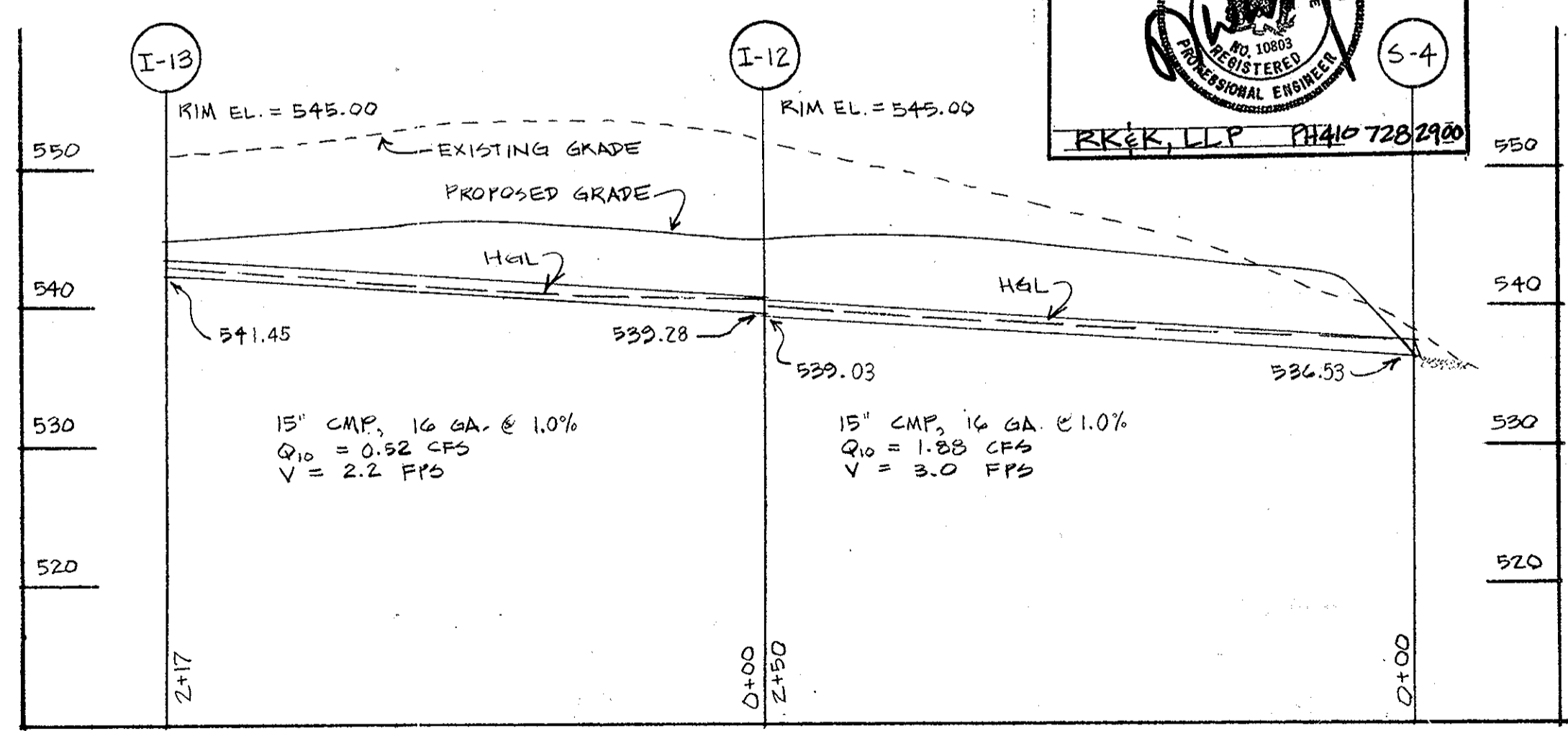
INLET 8 to S-1



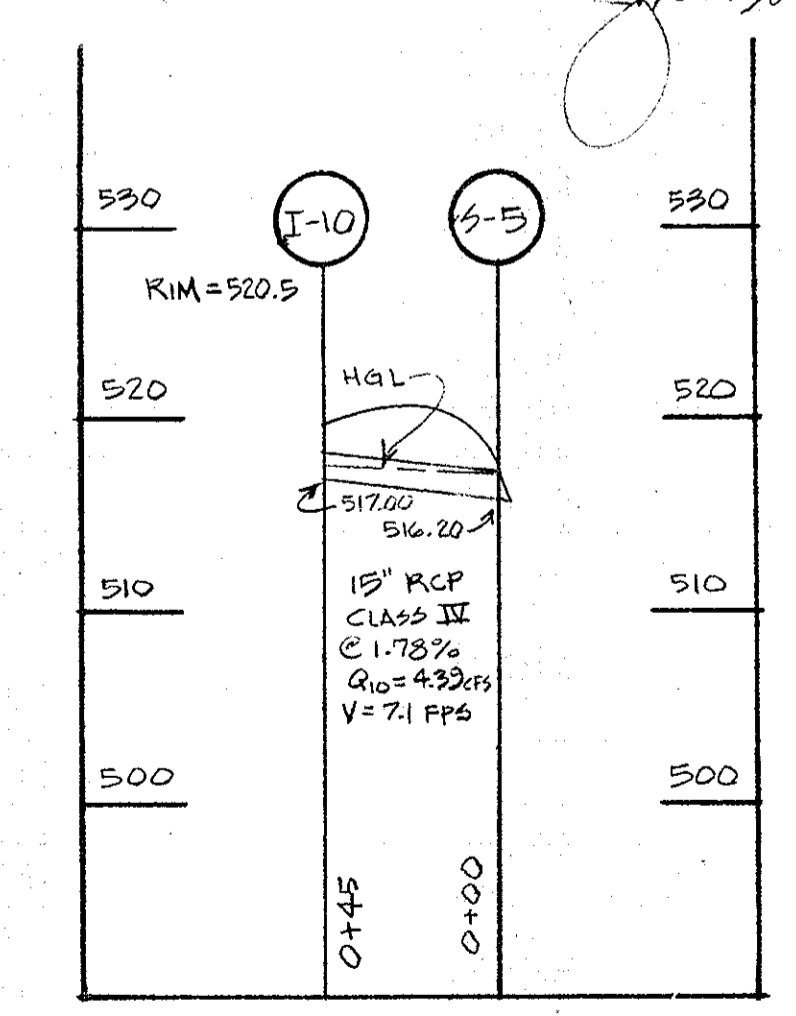
INLET 15 to S-6



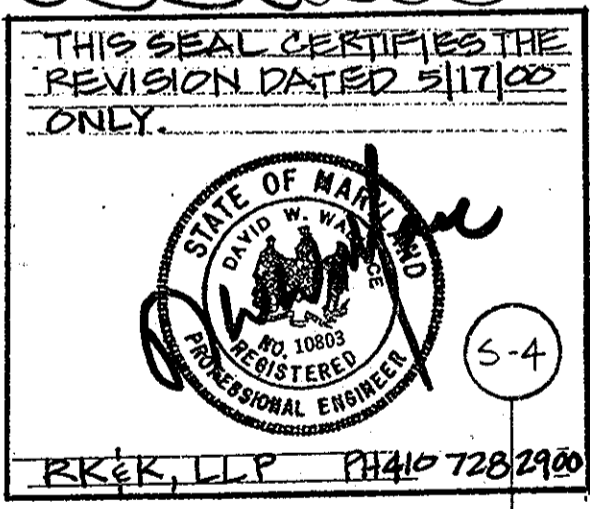
STRUCTURE 10 to STRUCTURE 3



INLET 13 to STRUCTURE 4



INLET 10 to STRUCTURE 5



NOTE: FOR OUTLET STRUCTURES & APRONS, SEE SHEETS S-8 & S-15

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310 Expiration Date: 7-2-2012

STORM DRAIN PROFILES

SCALES: Vertical 1" = 10' Horizontal 1" = 50'

APPROVAL STAMP

Revised Sheet Numbers 5-29-2012

SITE DATA
OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #29
ELECTION DISTRICT #3
CENSUS TRACT 8030
WATER:
SEWER: NONE

JANUARY 24, 1992

REVISION 5/17/12 PROPOSED IN-LINE SKATE RINK, REMOVE S-10 & S-11

J. CHRISTOPHER BATTEN, INC. Land Planning & Design Consultant
9 North Church Street Westminister, Maryland 21157 301-876-3383

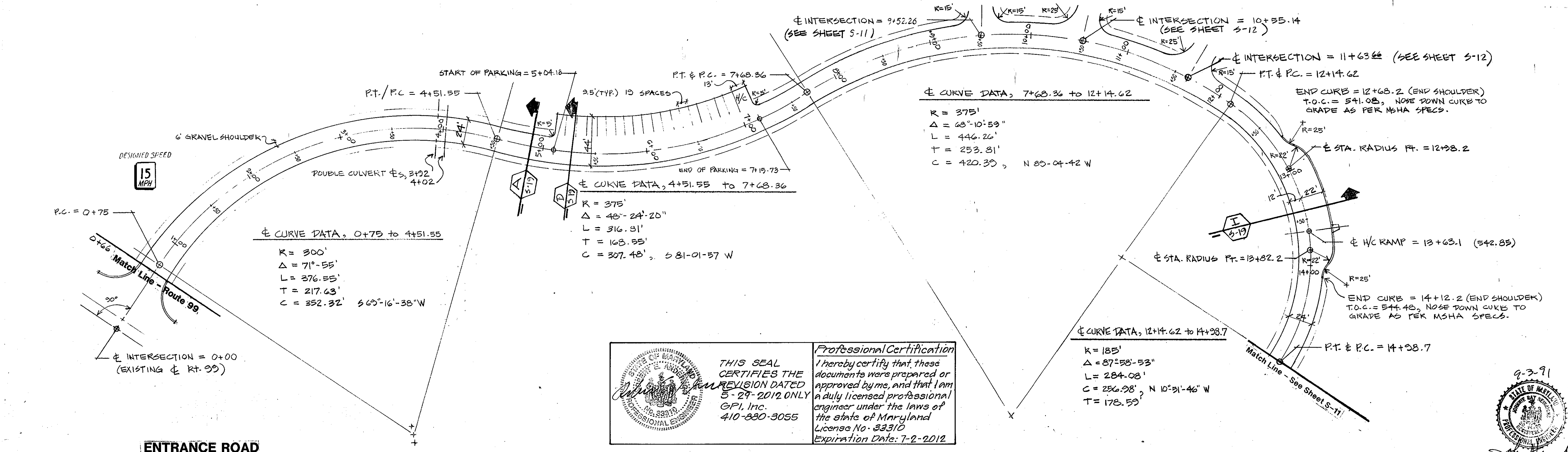
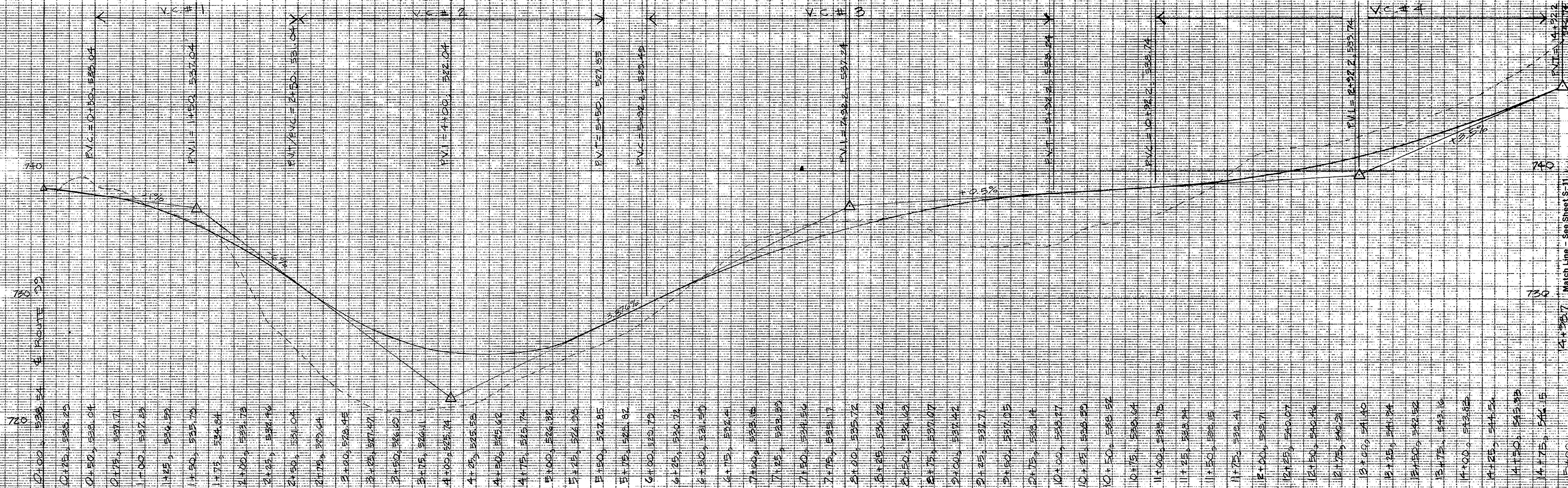
SHEET S-9 SDP 27 of 38 of 20

REVIEWED NO FACILITIES REQUIRED
 HOWARD COUNTY HEALTH DEPARTMENT

James M. [Signature] 1/24/92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 1/27/92
 DIRECTOR DATE
 [Signature] 1/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 1/28/92
 DIRECTOR DATE
 [Signature] 1-24-92
 CHIEF, BUREAU OF ENGINEERING DATE



Professional Certification
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310 Expiration Date: 7-2-2012

THIS SEAL CERTIFIES THE REVISION DATED 5-27-2012 ONLY
 [Signature] 410-880-3055

APPROVAL STAMP

Revised Sheet Numbers
 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK DEED REF. LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: [Blank]
 SEWER: NONE

JANUARY 24, 1992

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 8 North Church Street
 Westminster, Maryland 21157
 301-476-3383

S-10
 SDP 28 of 38
 of 20

NOTES:
 1) PAVING SECTIONS - SEE SHEET D-2
 2) ALL EXISTING PAVING MARKINGS MUST BE ELIMINATED BY CONTRACTOR AS DIRECTED BY S.H.A. REPRESENTATIVE

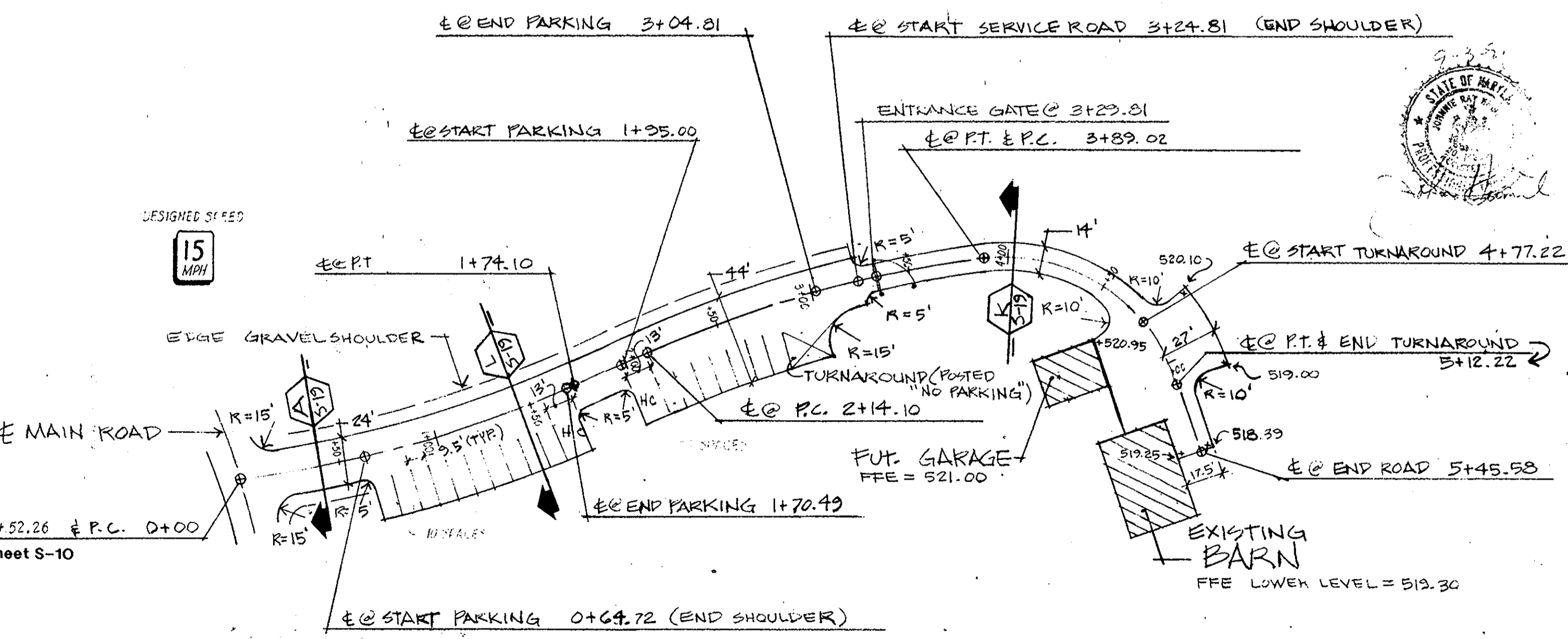
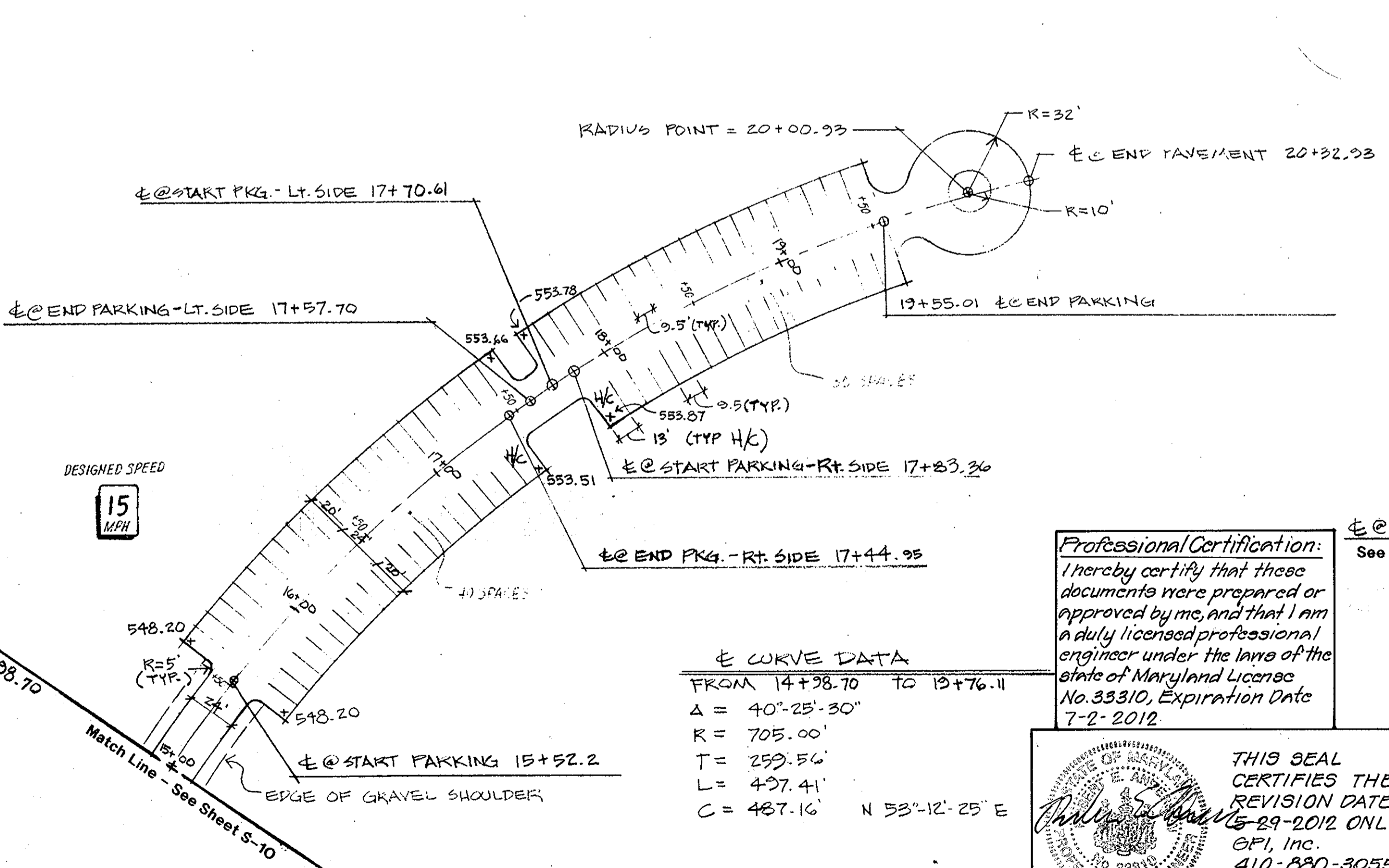
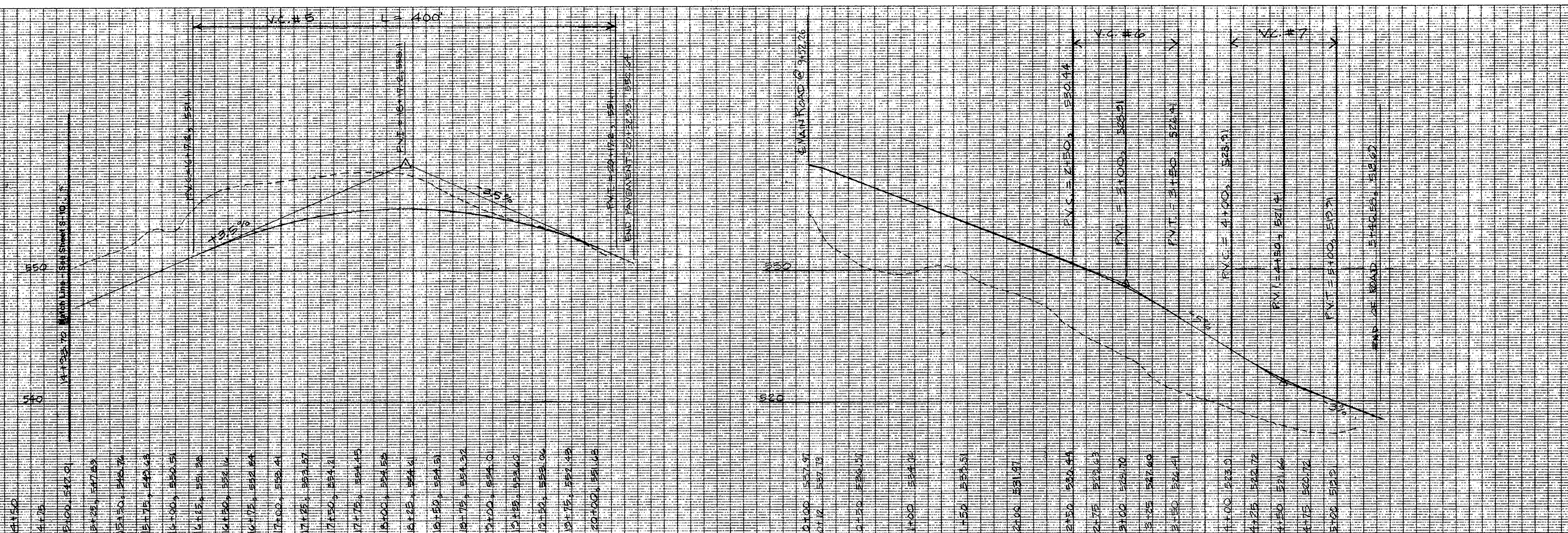
REVIEWED NO FACILITIES REQUIRED

HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd, Health Officer
1/24/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
James R. Smith, Director
1/27/92
Anna H. Henshaw, Chief, Division of Community Planning and Land Development
1/27/92

APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James P. Lu, Director
1/24/92
D. S. ... Chief, Bureau of Engineering
1/24/92

APPROVAL STAMP



☒ CURVE DATA

| | | | |
|------|-------------------------|----|----------|
| FROM | 14+38.70 | TO | 19+76.11 |
| Δ | 40°-25'-30" | | |
| R | 705.00' | | |
| T | 259.56' | | |
| L | 427.41' | | |
| C | 487.16' N 53°-12'-25" E | | |

☒ CURVE DATA

| | | | |
|------|-------------------------|----|---------|
| FROM | 0+00 | TO | 1+74.10 |
| Δ | 17°-30'-06" | | |
| R | 570.00' | | |
| T | 87.72' | | |
| L | 174.92' | | |
| C | 174.23' S 01°-52'-13" E | | |

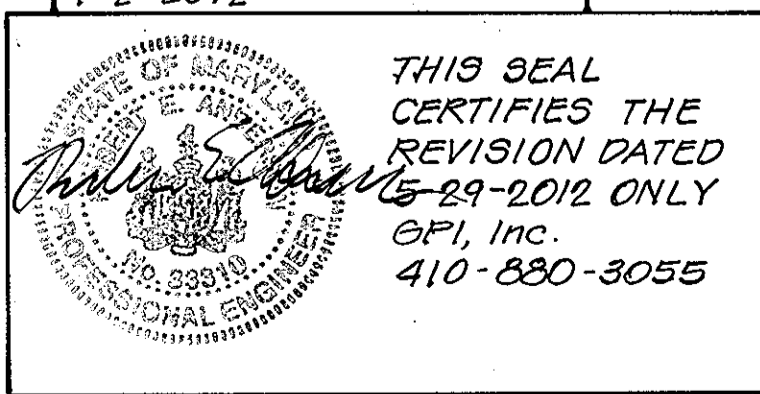
☒ CURVE DATA

| | | | |
|------|-------------------------|----|---------|
| FROM | 2+14.10 | TO | 3+89.02 |
| Δ | 17°-34'-58" | | |
| R | 570.00' | | |
| T | 88.15' | | |
| L | 174.92' | | |
| C | 174.23' S 01°-52'-13" E | | |

☒ CURVE DATA

| | | | |
|------|-------------------------|----|---------|
| FROM | 3+29.02 | TO | 5+12.22 |
| Δ | 78°-26'-02" | | |
| R | 90.00' | | |
| T | 73.45' | | |
| L | 123.20' | | |
| C | 113.81' S 46°-08'-15" W | | |

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310, Expiration Date 7-2-2012



Notes: 1) PAVING SECTIONS - SEE SHEET P-2

☒ MAIN ROAD 14-98.17 & ROAD TO MAINTENANCE GARAGE ROAD PROFILE

SCALES: Horiz. 1"=50' Vert. 1"=4'

Revised Sheet Numbers 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER: NONE
SEWER: NONE

JANUARY 24, 1992

J. CHRISTOPHER BATTEN, INC.
Land Planning & Design Consultant
8 North Church Street
Westminster, Maryland 21157
301-876-3383

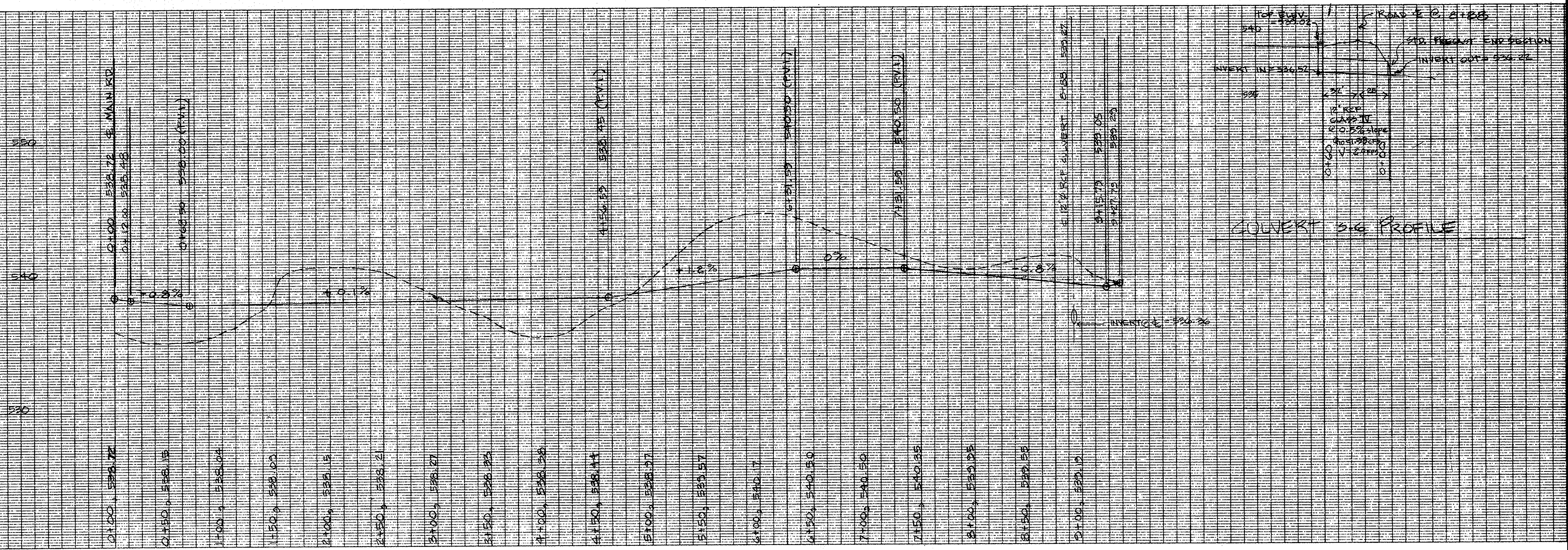
SHEET
S-11
SDP 29 of 38
of 20
SDP 12 of 21

REVIEWED NO FACILITIES REQUIRED

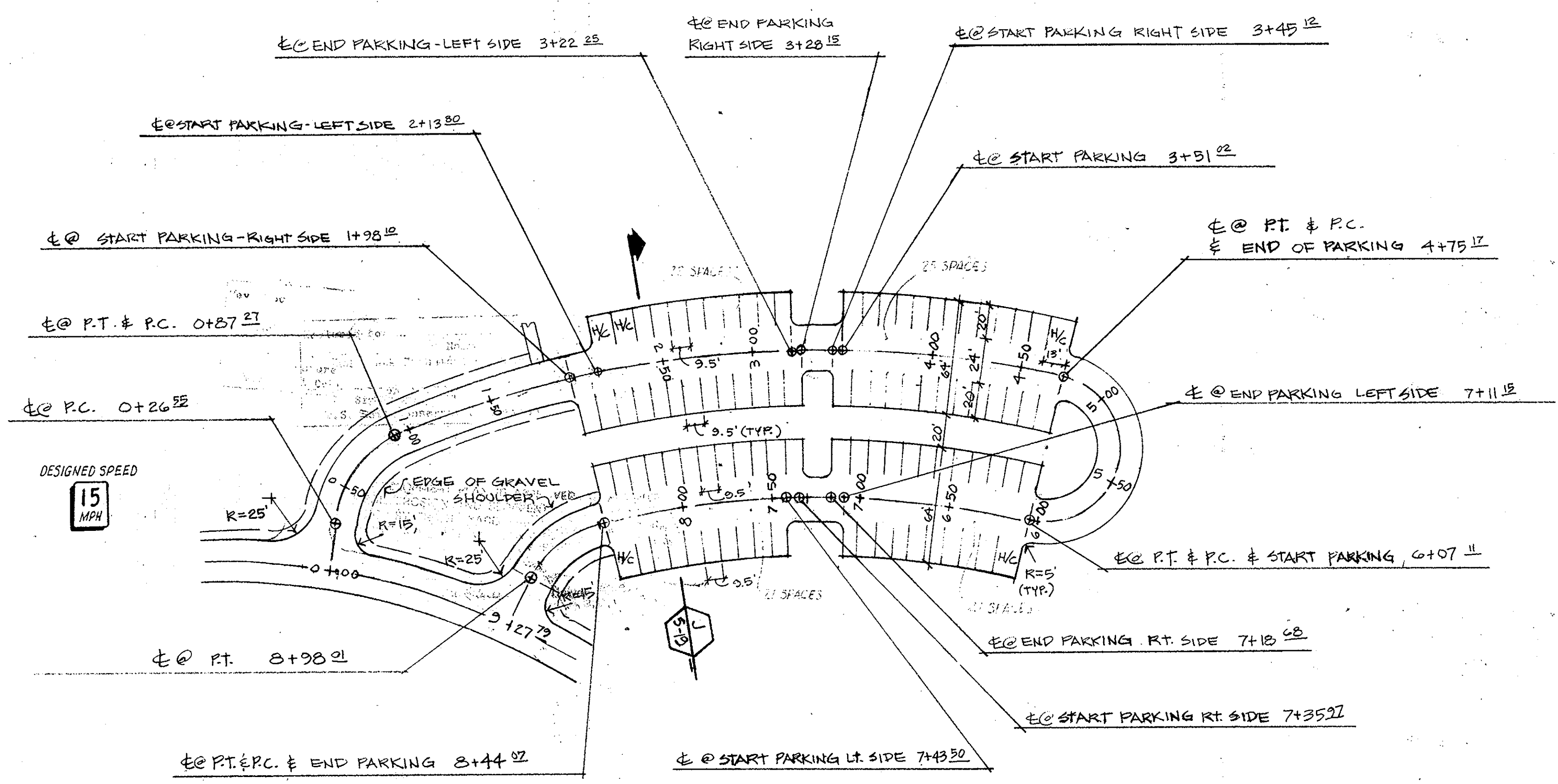
HOWARD COUNTY HEALTH DEPARTMENT
Joseph M. Bagnall, Jr. 1/24/92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Joseph B. Batten 1/27/92
DIRECTOR DATE
Emma Holmstedt 1/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PRIVATE WATER AND NO REVENUE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph B. Batten 1/24/92
DIRECTOR DATE
William S. Papp 1-24-92
CHIEF, BUREAU OF ENGINEERING DATE



CONVERT SIG PROFILE

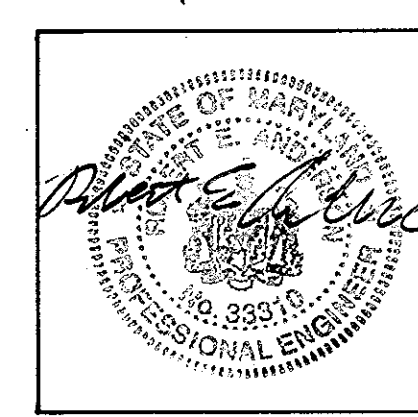


NOTE:

NO VERTICAL CURVE COMPUTATIONS HAVE BEEN PREPARED FOR THIS SECTION OF ROAD DUE TO THE LIMITED SLOPES. ALSO THIS IS A LOW SPEED TRAVEL AREA THROUGH THE PARKING LOT.

HORIZONTAL CURVE DATA

| STATIONS | DELTA | RADIUS | ARC | TANGENT | CHORD BEARING & DISTANCE |
|--------------------|-------------|---------|---------|---------|--------------------------|
| 0+26.52 to 0+87.21 | 57°59'-13" | 60.00' | 40.72' | 33.25' | S 40°-01'-57" W 58.17' |
| 0+87.21 to 4+75.12 | 35°00'-00" | 65.00' | 387.90' | 200.21' | S 86°-31'-33" W 381.90' |
| 4+75.12 to 6+07.12 | 180°00'-00" | 42.00' | 131.94' | NONE | N 14°-01'-33" E 84.00' |
| 6+07.12 to 8+44.92 | 24°38'-27" | 551.00' | 236.96' | 120.34' | N 88°-36'-13" E 235.14' |
| 8+44.92 to 8+98.02 | 50°-39'-54" | 61.00' | 53.94' | 28.88' | N 53°-41'-38" E 52.20' |



THIS SEAL CERTIFIES THE REVISION DATED 5-29-2012 ONLY GPI, Inc. 410-880-3055

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310, Expiration Date: 7-2-2012

NOTES:

1.) PAVING SECTIONS - SEE SHEET D-2

PARKING LOT LOOP

ROAD PROFILE

SCALE: Profile Horiz. 1"=50' Vert. 1"=4' Plan 1"=60'

Revised Sheet Numbers 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER: NONE
SEWER: NONE

JANUARY 24, 1992



SHEET S-12 of 20
SDP 30 of 38
SDP 13 of 24
SDP 90-18

REVIEWED NO FACILITIES REQUIRED

HOWARD COUNTY HEALTH DEPARTMENT
 Director: *James M. [Signature]* Date: 1/24/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Director: *James R. [Signature]* Date: 1/27/92
 Director: *James H. [Signature]* Date: 1/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PRIVATE WATER AND NO REVENUE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James P. [Signature]* Date: 1/24/92
 Director: *James P. [Signature]* Date: 1-24-92
 CHIEF, BUREAU OF ENGINEERING

APPROVAL STAMP

Revised Sheet Numbers
 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF. LIBER 847, FOLIO 006
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6090
 WATER:
 SEWER: NONE

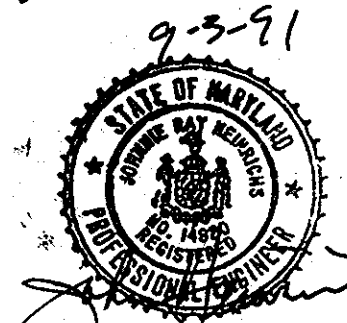
JANUARY 24, 1992

REVISION DATED 5/17/00
 PROPOSED IN-LINE SKATE RINK

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 14 North Church Street
 Westminister, Maryland 21157
 301-576-3383

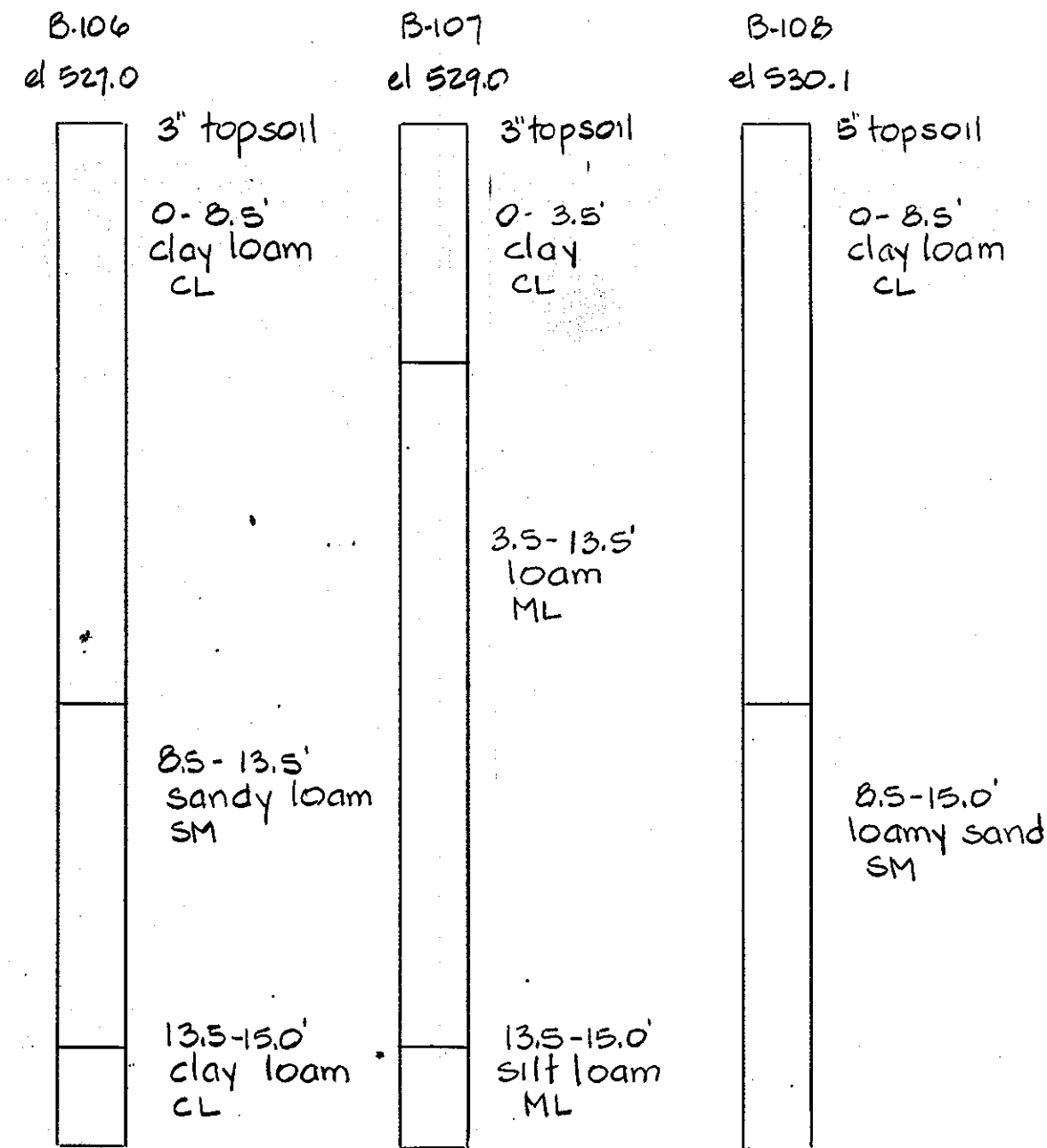
SHEET

S-13
 SDP 31 of 38
 of 20

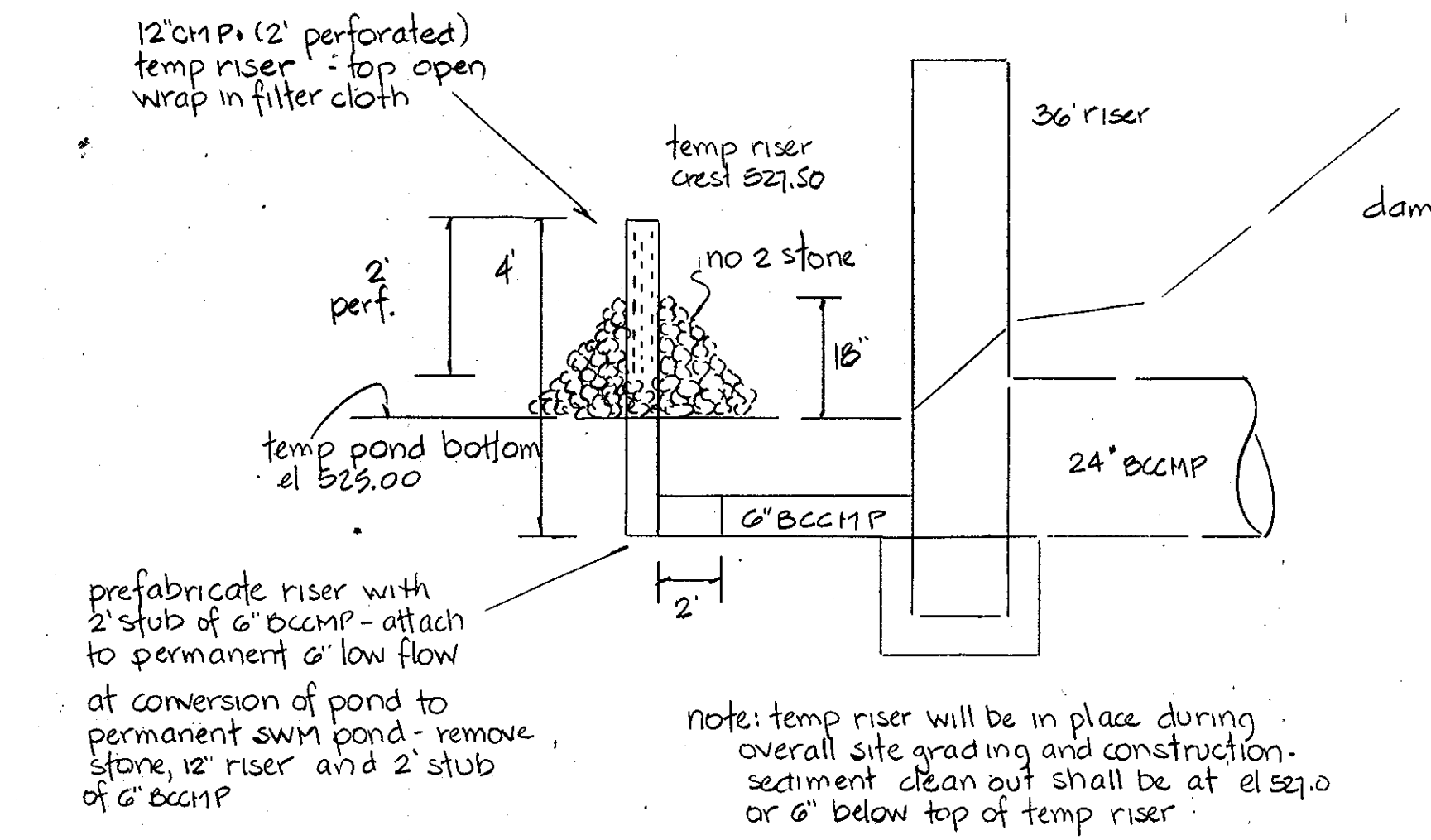


Stormwater Management
 Pond #1
 Plan
 1'-20'

- SEQUENCE OF CONSTRUCTION - SWM POND # 1
- Note: Minimum sediment control measures to be in place prior to pond construction include: trap #2.
1. Clear and grub pond area.
 2. Install silt fence along outside toe of dam (see plan).
 3. Dig and install core trench.
 4. Install [36"] riser and barrel, outfall protection, and temporary riser with stone. Install a temporary outfall channel to existing grade @ 0.5% (approx 170 LF).
 5. Place dam fill and excavate storage area.
 6. Grade diversion and stabilize.
 7. Stabilize disturbed areas.
- During site grading and construction - clean out sediment when it reaches elevation 527.0, or 6" below top of temporary riser.
- a. Clean out sediment.
 - b. Remove temporary riser and stone.
 - c. Grade bottom and side of pond to final configuration.
 - d. Excavate for stone infiltration trench.
 - e. Lay fabric, place stone, and install observation well as indicated in specifications, sheet
 - f. Remove trash rack, cut [36"] riser, replace trash rack.
 - g. Stabilize disturbed areas.
- Note: When trap #2 is removed and stilling basins 1-a & b are installed, remove temporary outfall channel and adjust outfall protection as necessary to blend into basin 1-b.



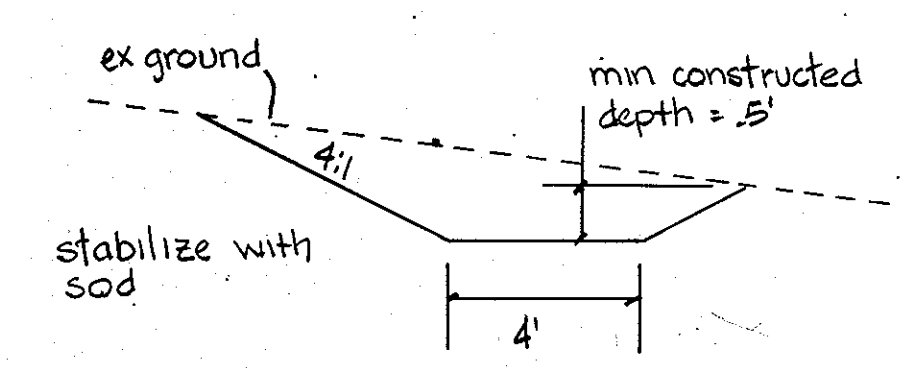
Soil boring logs
 no scale



Temporary Riser Detail
 no scale

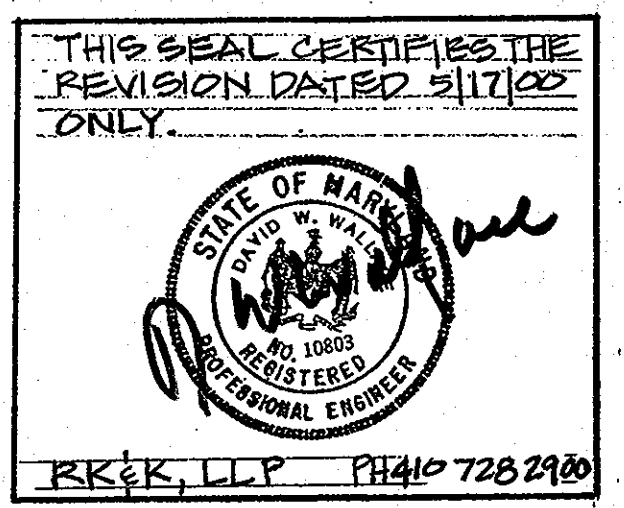
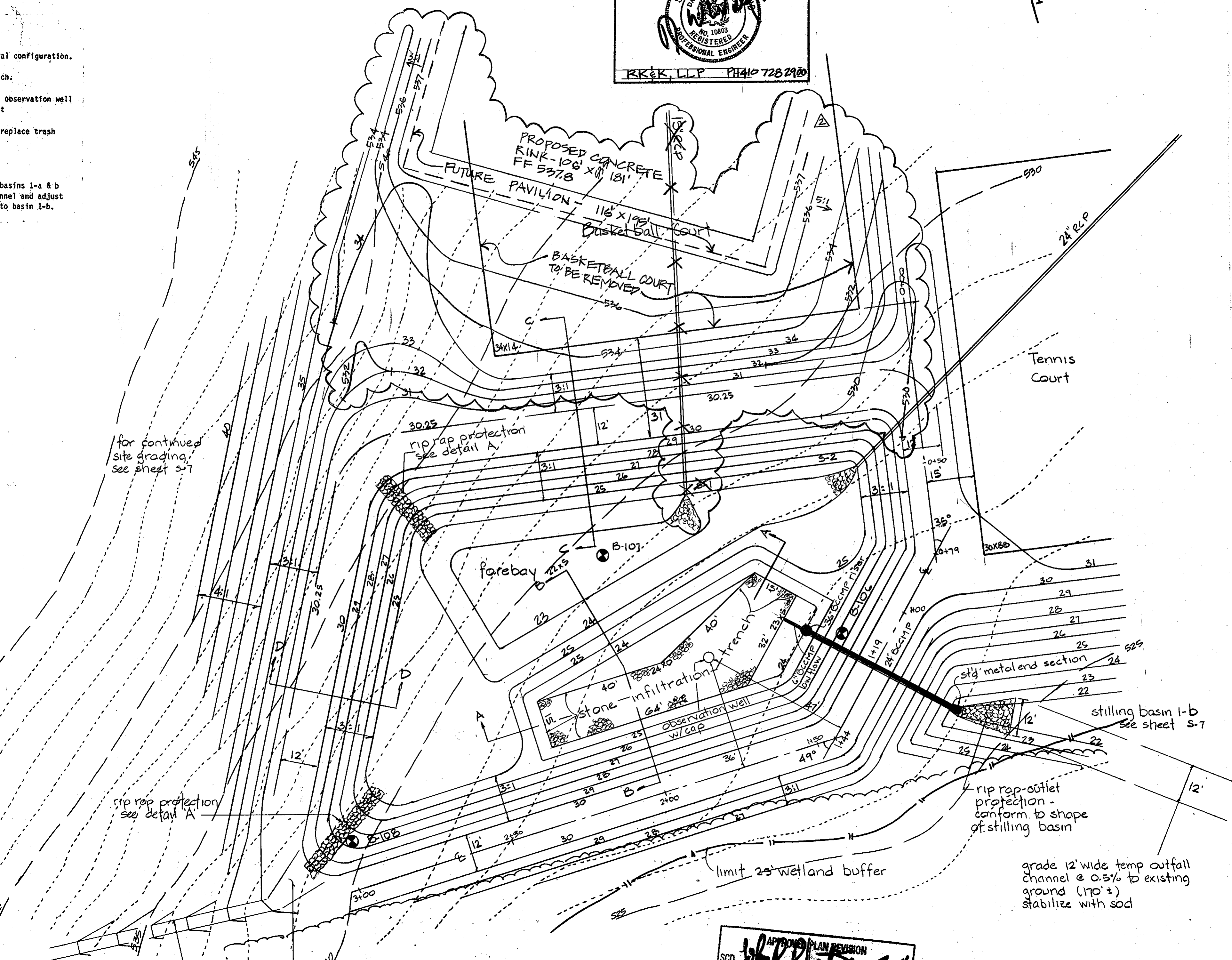
Requested for **HOWARD** S.O.D.
 Name: *[Signature]*
 Date: 1/27/92
 Signature: *[Signature]*
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: *[Signature]* Date: 1/27/92
 Howard S.O.D.



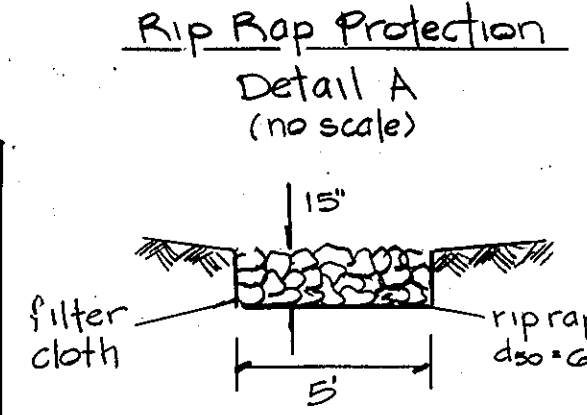
Diversion Channel Detail
 no scale

construct channel to match existing slope - minimum construction depth = 0.5' channel grade will vary stabilize entire cut area with sod



THIS SEAL CERTIFIES THE REVISION DATED 5-29-2012 ONLY
 G.P.I., Inc.
 410-880-3055

Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310, Expiration Date: 7-2-2012

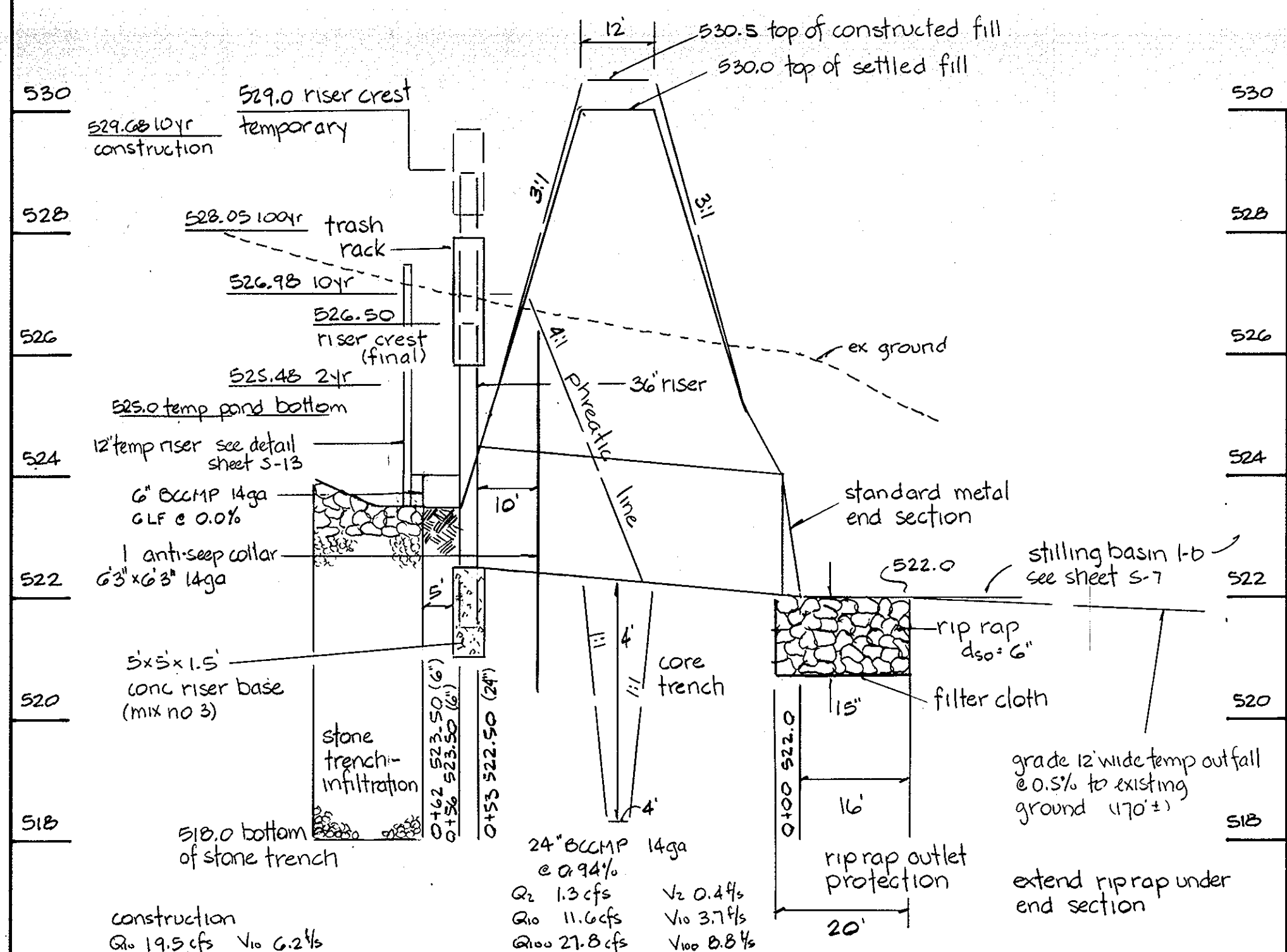


Rip Rap Protection Detail A
 (no scale)

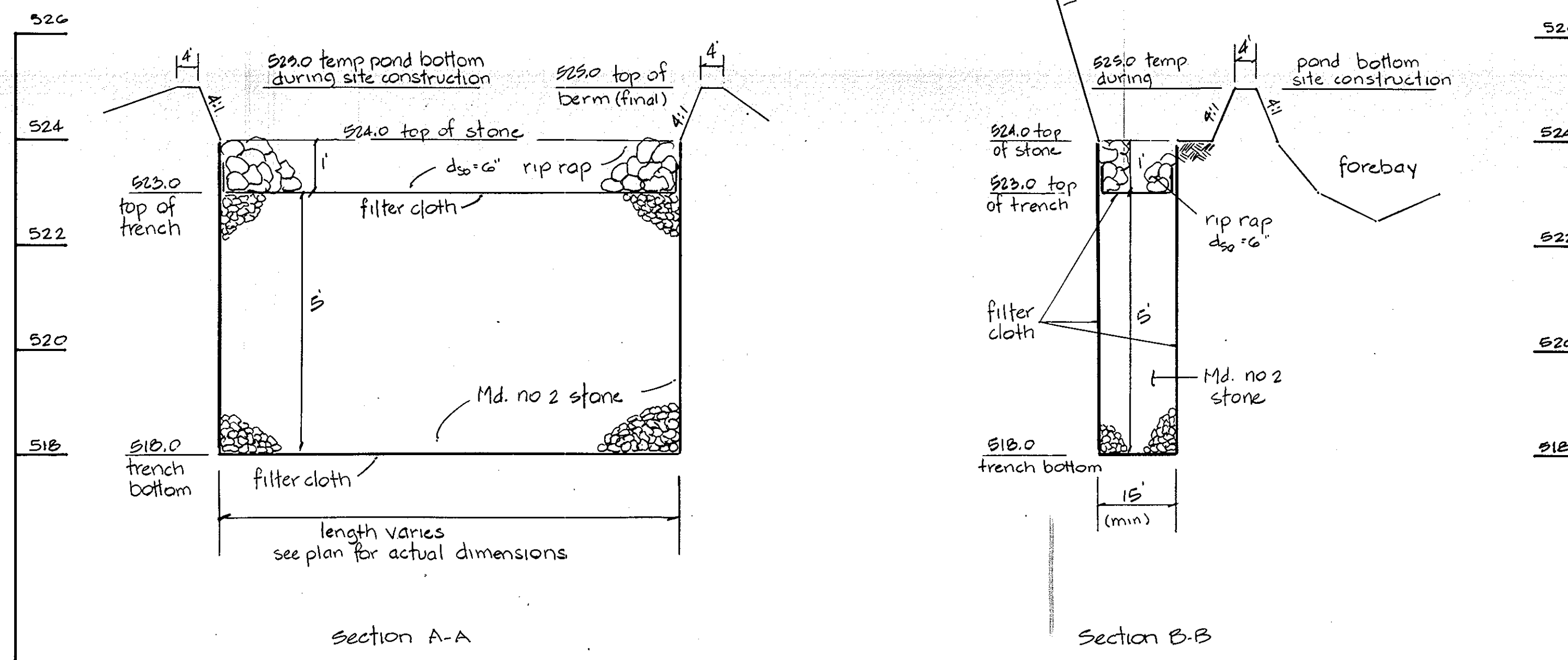
APPROVED PLAN REVISION
 SCD
 INRCS
[Signature]
 Date: 1/27/92

880

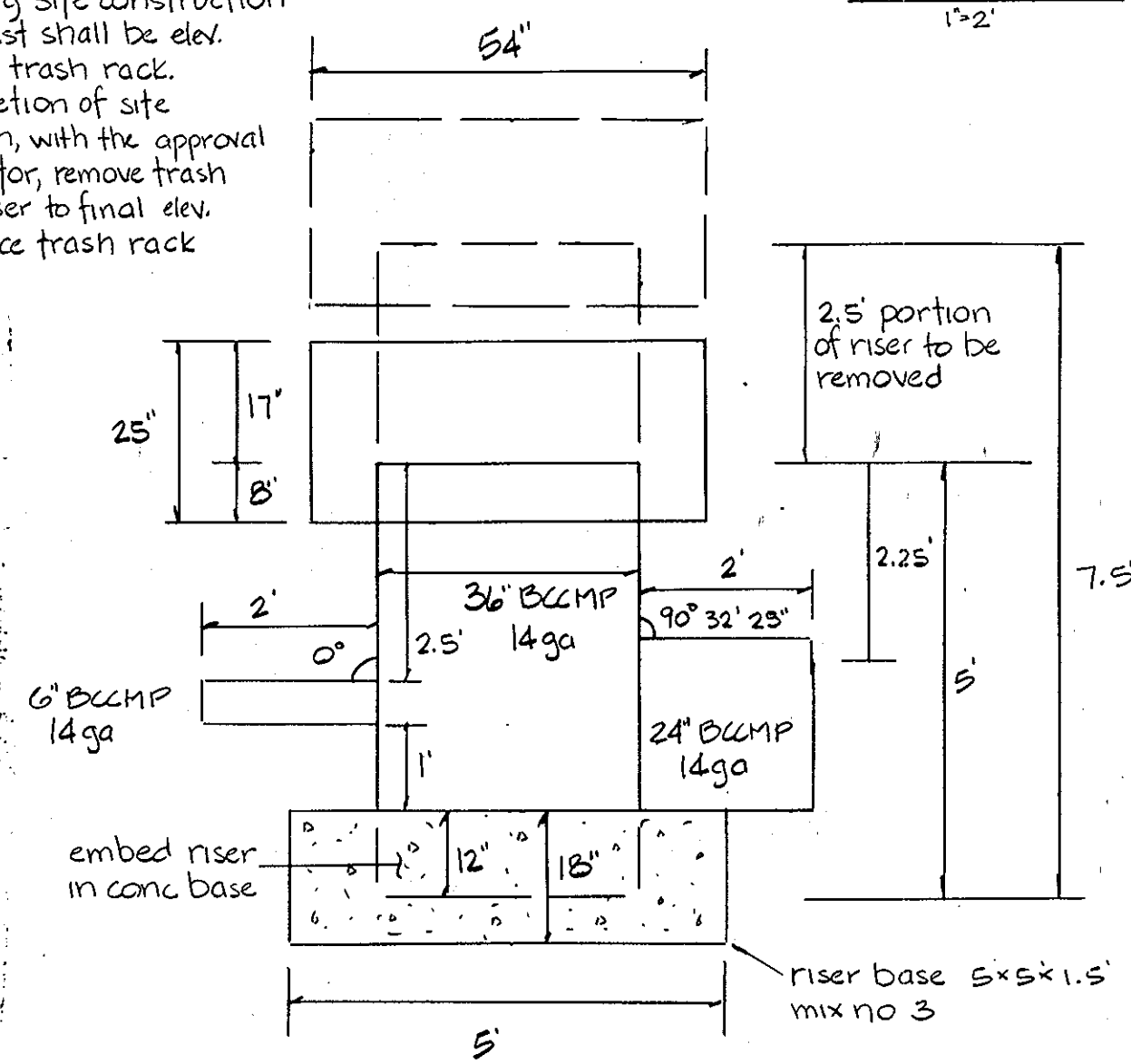
**Profile - Principal Spillway
and
Cross Section of Dam**
scale vert 1/2" = 1' hor 1/2" = 10'



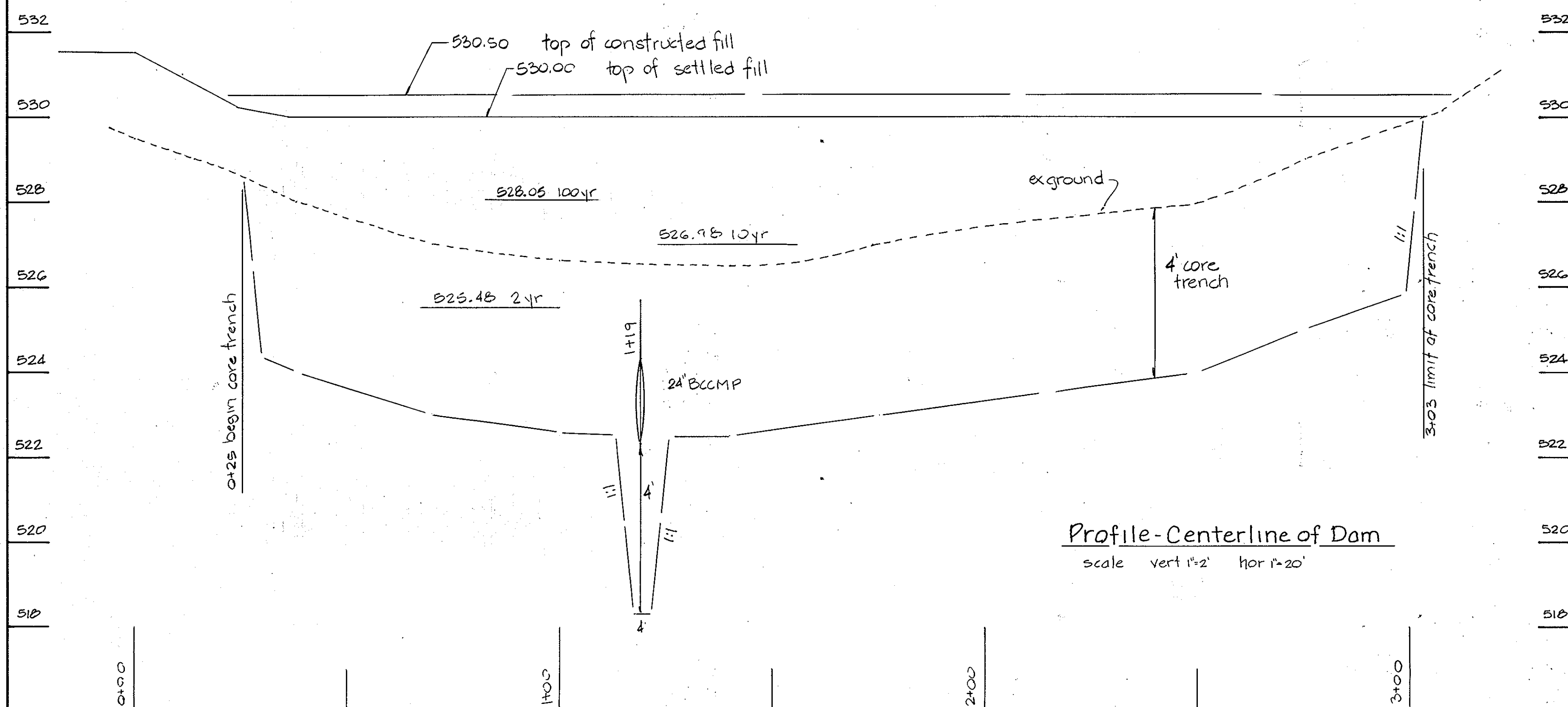
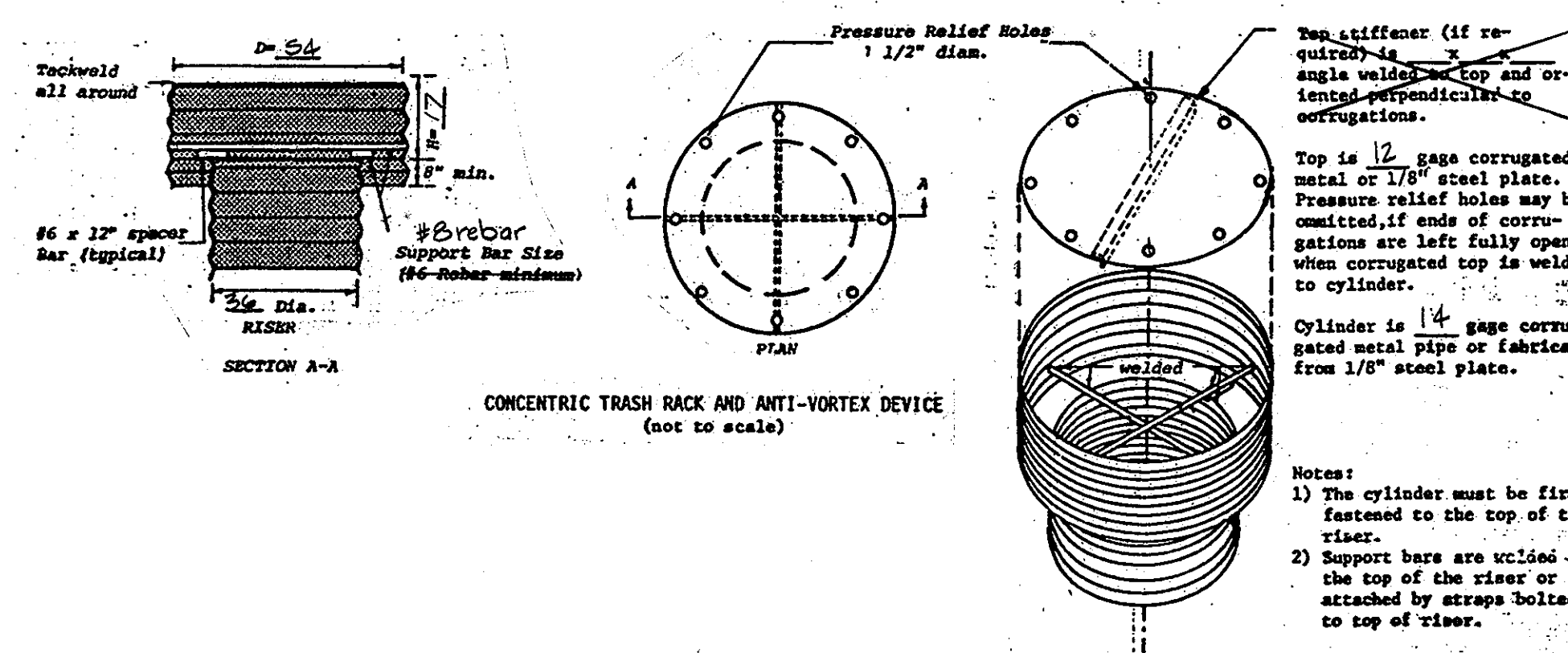
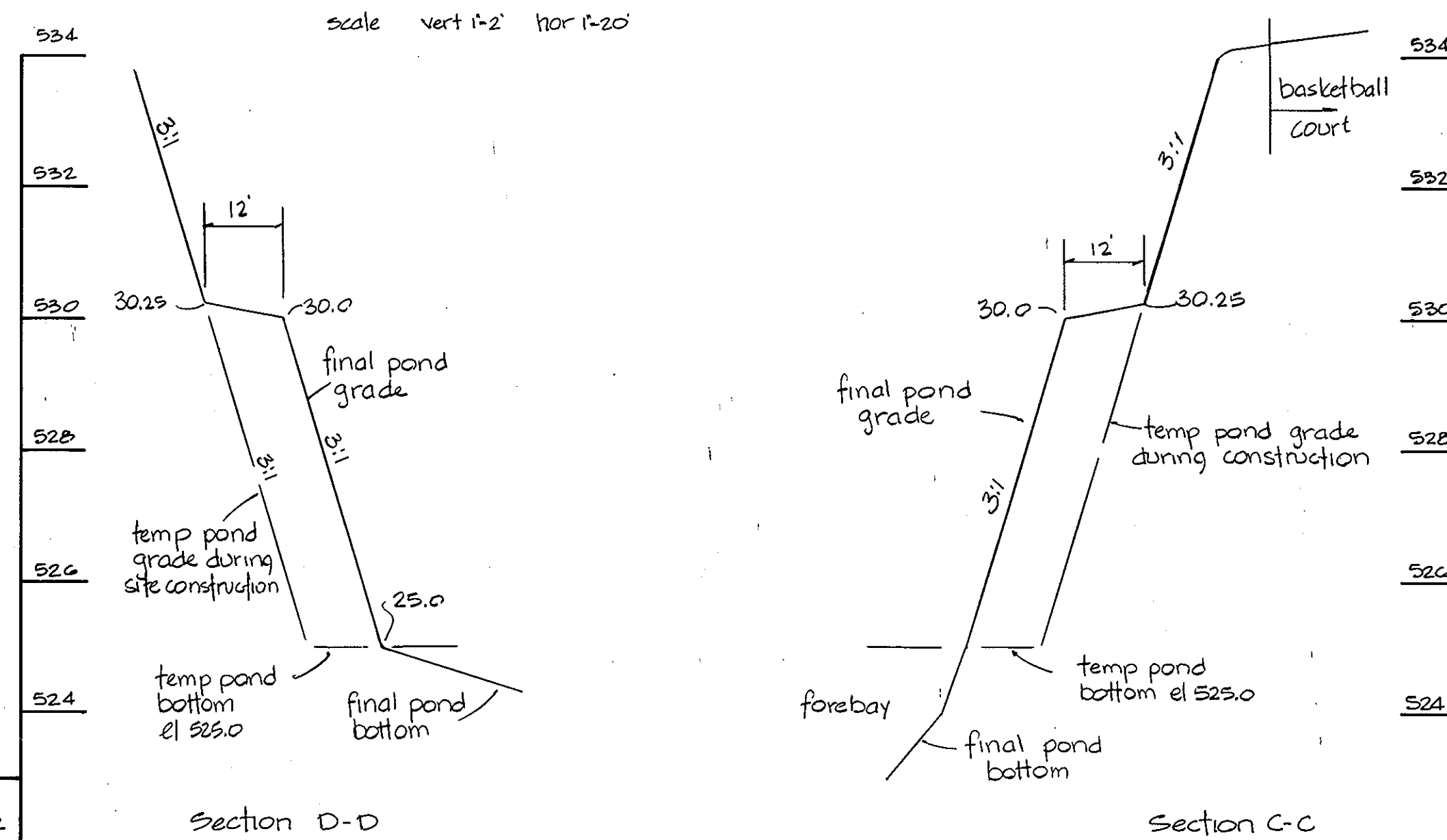
Sections - Infiltration Trench
scale vert 1/2" = 1' hor 1/2" = 10'



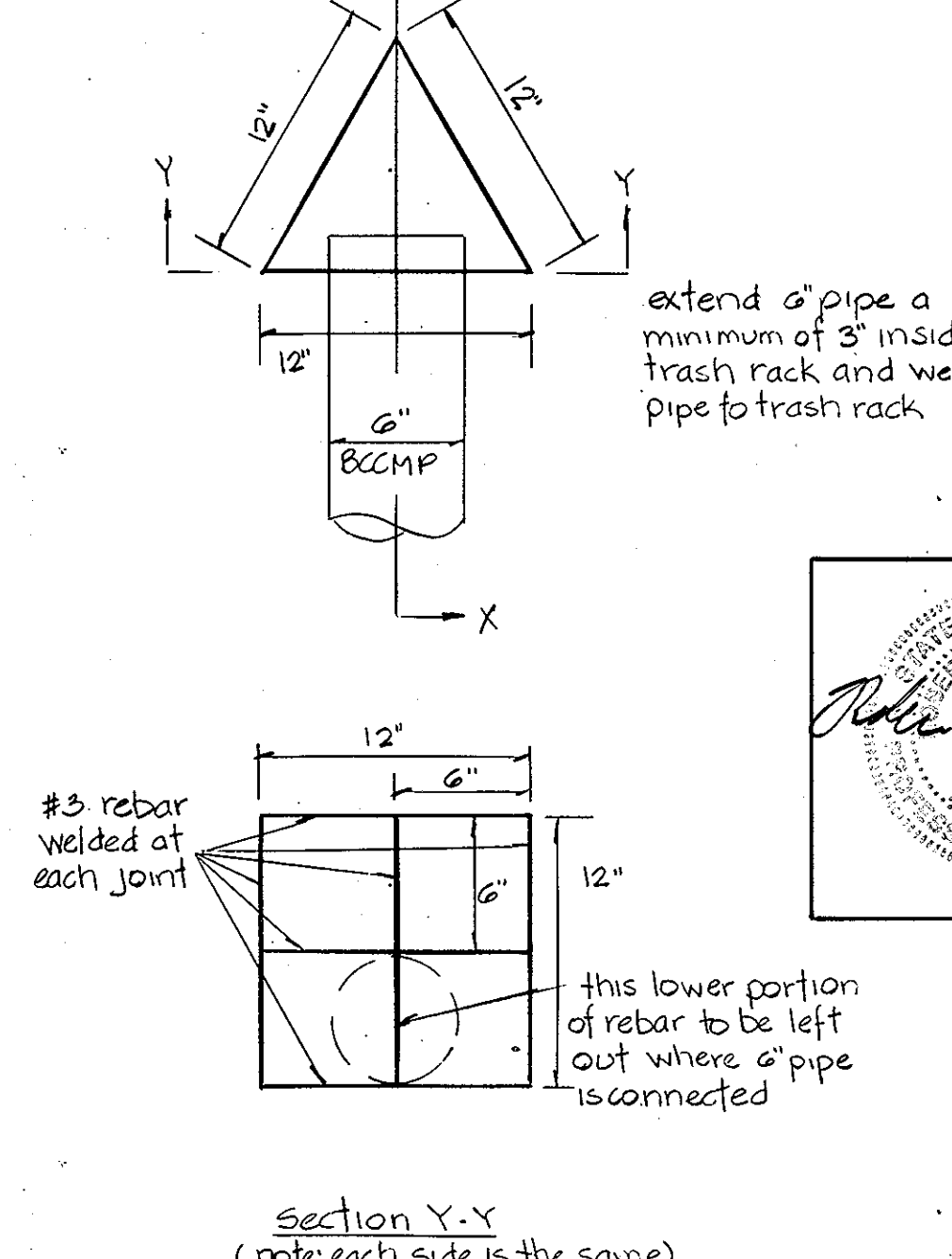
Riser Detail
1/2" = 1'



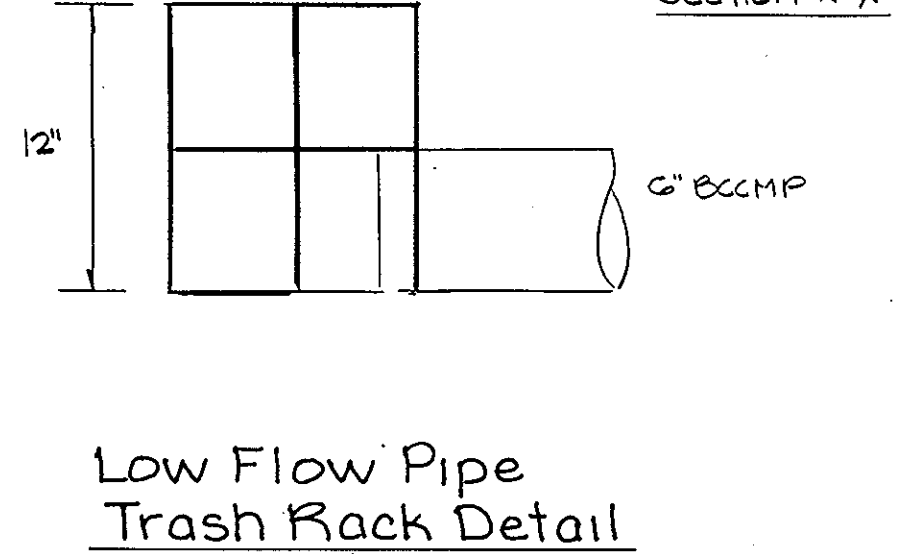
Sections - Pond Sides
scale vert 1/2" = 1' hor 1/2" = 10'



Plan View



Section X-X

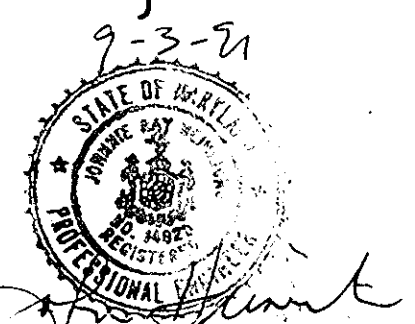


Low Flow Pipe Trash Rack Detail
no scale

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310 Expiration Date: 7-2-2012

THIS SEAL CERTIFIES THE REVISION DATED 5-29-2012
GPI, Inc.
410-880-3055

**Stormwater Management
Pond #1
Profiles**



REVIEWED NO FACILITIES REQUIRED
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
James M. [Signature] 1/24/92
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR
James R. [Signature] 1/27/92
DATE

APPROVED: DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
CHIEF
James [Signature] 1/24/92
DATE

APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
James [Signature] 1/24/92
DATE

APPROVED: CHIEF, BUREAU OF ENGINEERING
James [Signature] 1/24/92
DATE

APPROVAL STAMP

1988 DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT
APPROVED: [Signature] 1/27/92
HOWARD R. O. D.

Approved for: [Signature] 1/27/92
Name: [Signature] S. O. [Signature]
Signature: [Signature] Date: 1/27/92
U.S. Soil Conservation Service

Revised Sheet Numbers
5-29-2012

SITE DATA
OWNER: HOWARD COUNTY
DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF.: LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER:
SEWER: NONE

JANUARY 24, 1992

J. CHRISTOPHER BATTEN, INC.
Land Planning & Design Consultant
8 North Church Street
Westminster, Maryland 21157
301-576-3383

SHEET
S-14
SDP 32 of 38
of 20

880

REVIEWED NO FACILITIES REQUIRED

HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer: *James M. [Signature]* Date: 1/24/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Director: *James [Signature]* Date: 1/27/92
Chief, Division of Community Planning and Land Development: *Emmanuel [Signature]* Date: 1/27/92

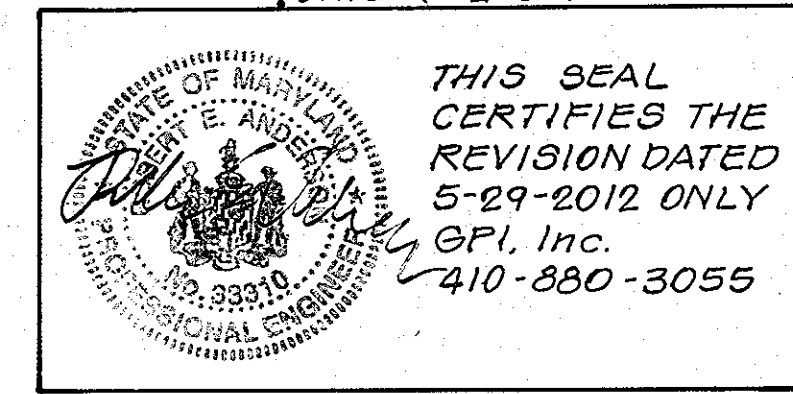
APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Director: *James [Signature]* Date: 1/24/92
Chief, Bureau of Engineering: *[Signature]* Date: 1-24-92

APPROVAL STAMP

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved: *[Signature]* Date: 1/27/92
Howard S.C.D.

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310, Expiration Date 7-2-2012



Reviewed for: *[Signature]* Date: 1/27/92
Signature: *[Signature]*
V.S. Soil Conservation Service

Revised Sheet Numbers
5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF., LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER: NONE
SEWER: NONE

JANUARY 24, 1992



SHEET

S-15

SDP 33 of 38 of 20



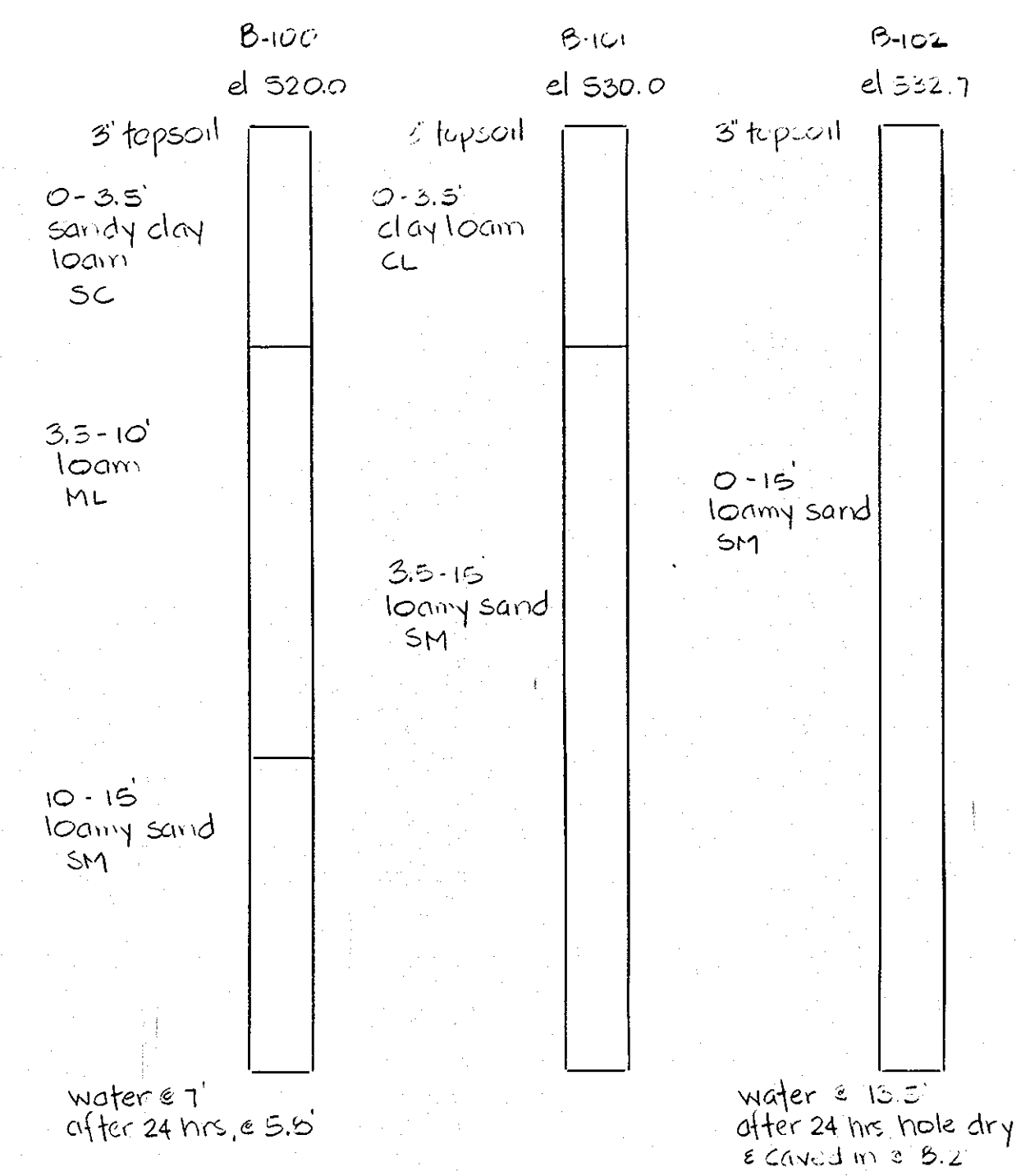
Stormwater Management Pond #3 Plan 1'-20'

XXAL-92-S015

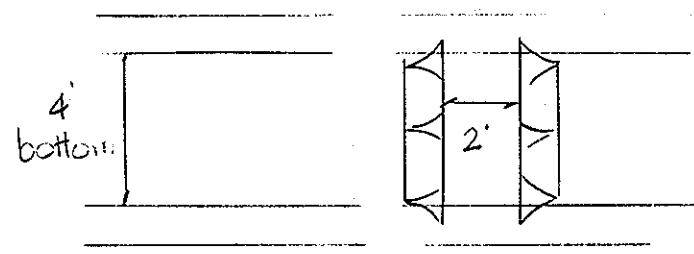
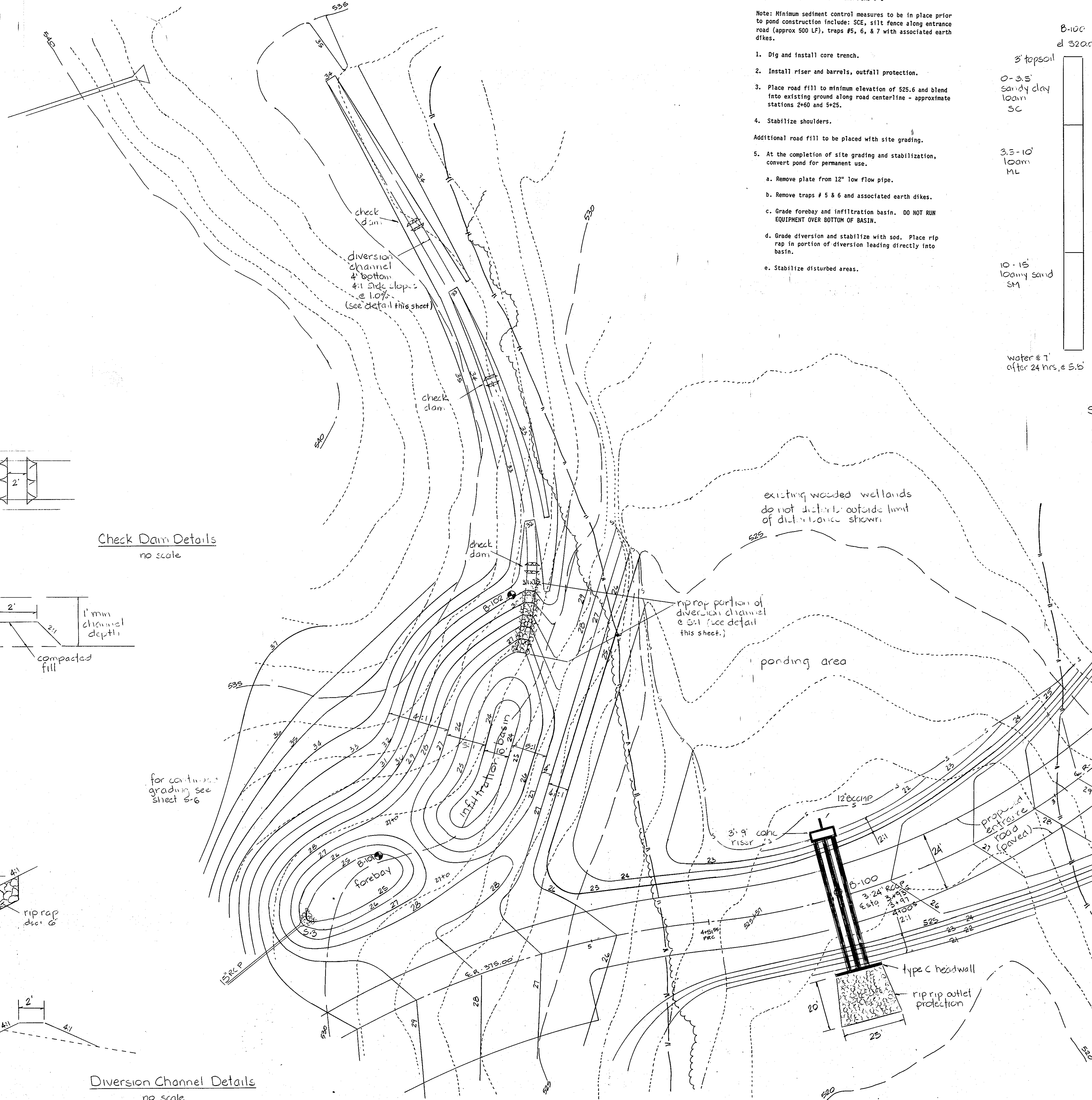
SEQUENCE OF CONSTRUCTION - SWM POND # 3

Note: Minimum sediment control measures to be in place prior to pond construction include: SCE, silt fence along entrance road (approx 500 LF), traps #5, 6, & 7 with associated earth dikes.

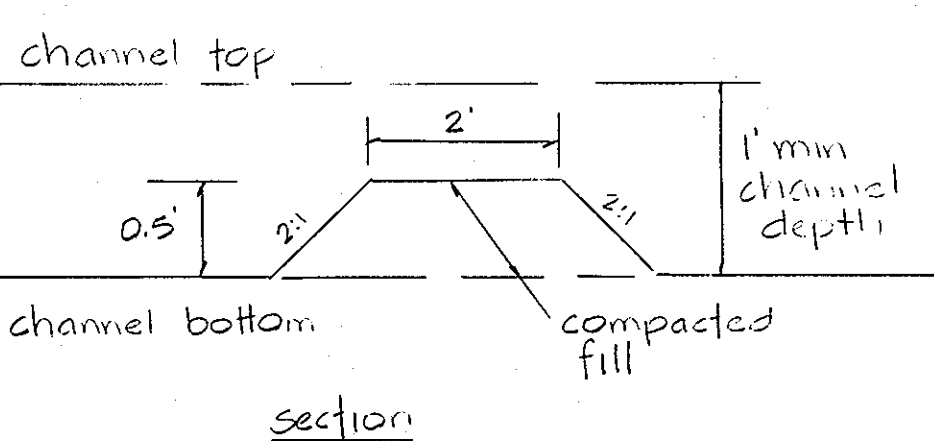
1. Dig and install core trench.
 2. Install riser and barrels, outfall protection.
 3. Place road fill to minimum elevation of 525.6 and blend into existing ground along road centerline - approximate stations 2+60 and 5+25.
 4. Stabilize shoulders.
- Additional road fill to be placed with site grading.
5. At the completion of site grading and stabilization, convert pond for permanent use.
 - a. Remove plate from 12" low flow pipe.
 - b. Remove traps # 5 & 6 and associated earth dikes.
 - c. Grade forebay and infiltration basin. DO NOT RUN EQUIPMENT OVER BOTTOM OF BASIN.
 - d. Grade diversion and stabilize with sod. Place rip rap in portion of diversion leading directly into basin.
 - e. Stabilize disturbed areas.



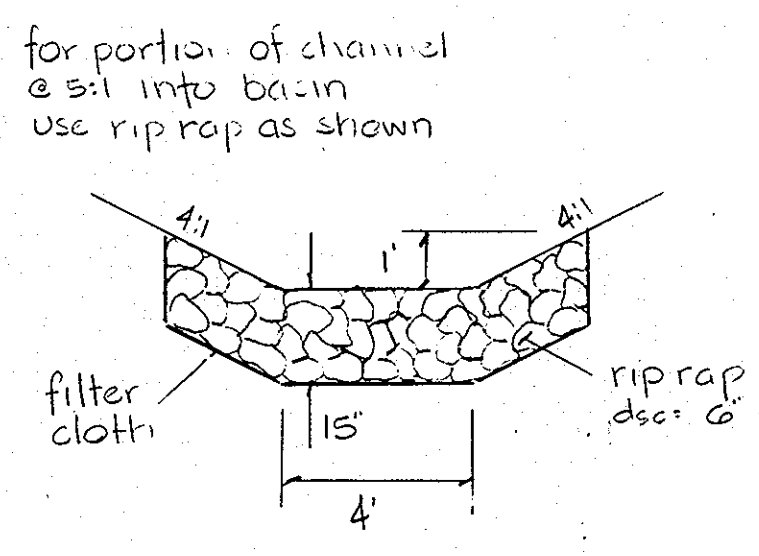
Soil Boring Logs no scale



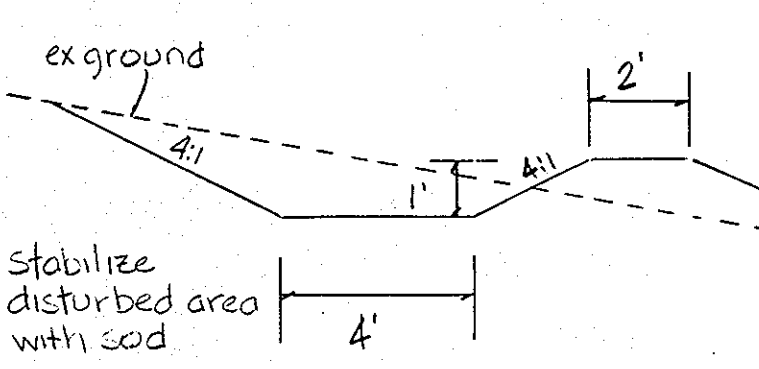
Check Dam Details no scale



section



Diversion Channel Details no scale



no scale

880

REVIEWED NO FACILITIES REQUIRED

HOWARD COUNTY HEALTH DEPARTMENT

James M. Boyd *Signature* 1/24/92
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James R. Rutter *Signature* 1/27/92
DATE

Annmarie Helmuth *Signature* 1/28/92
DATE

APPROVED: FOR PRIVATE WATER AND NO GENERATE, FOR STORM DRAINAGE SYSTEMS

AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

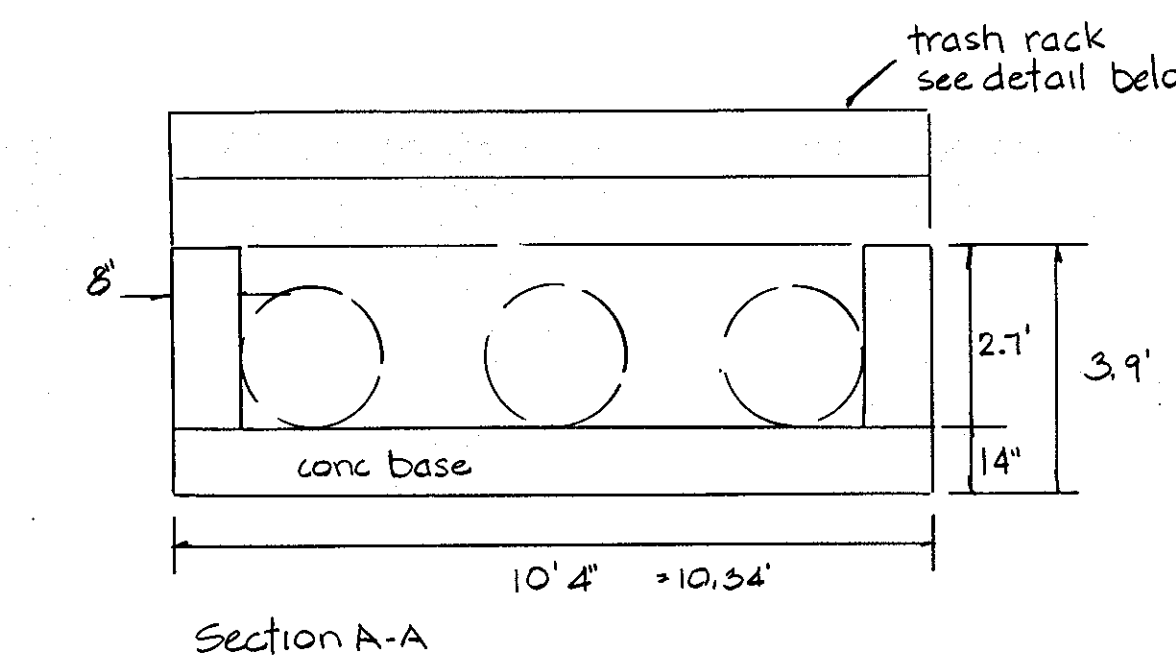
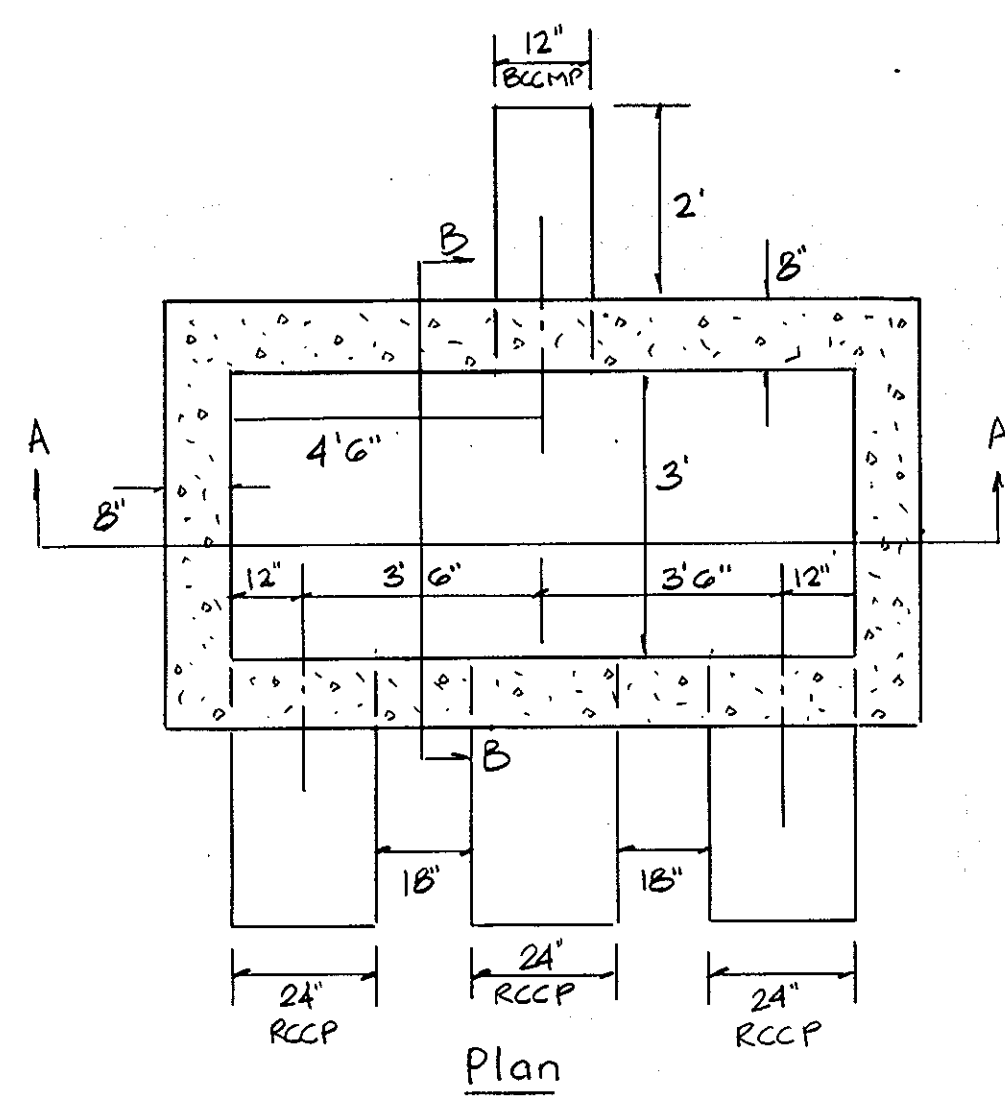
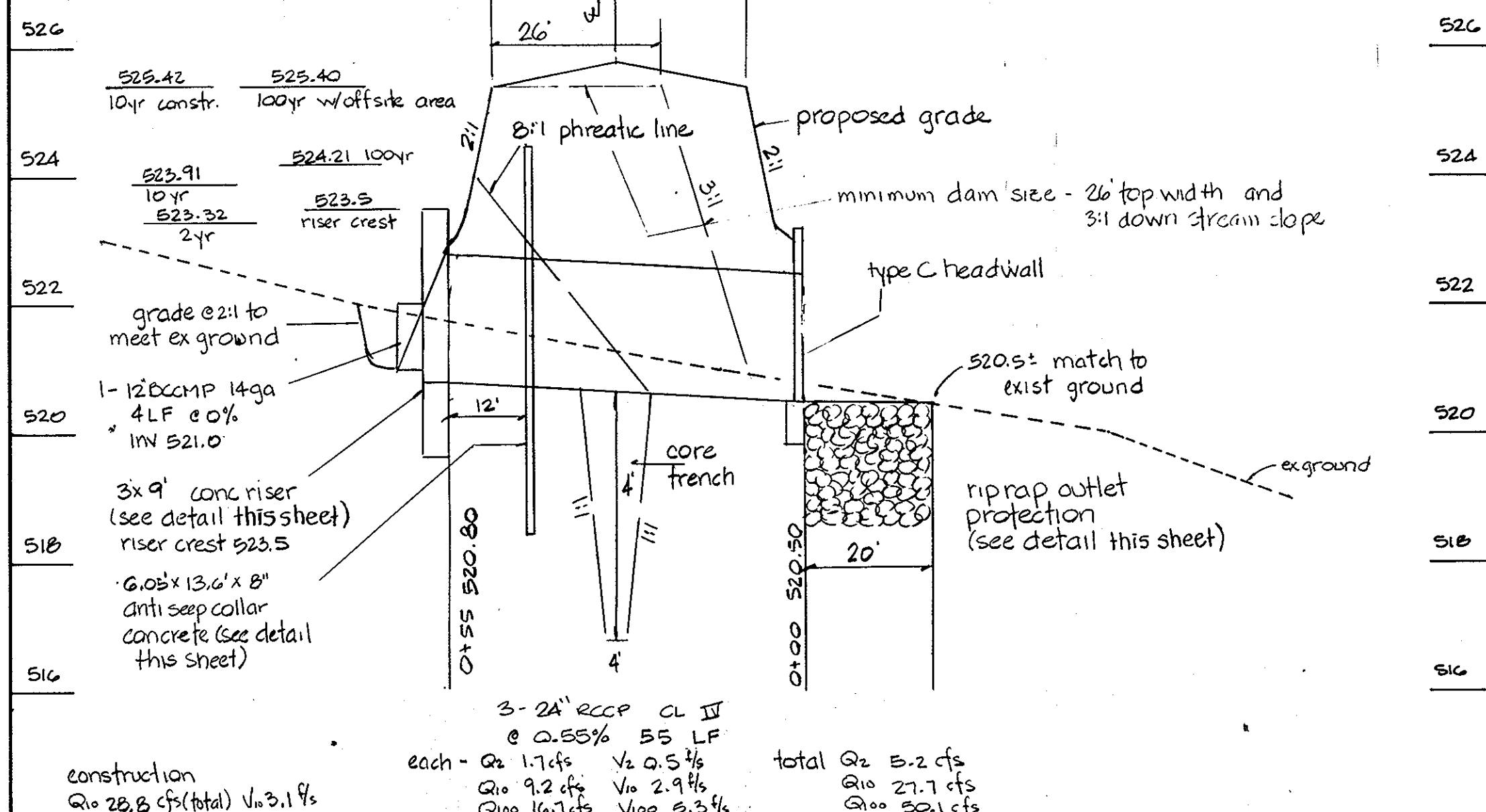
James P. *Signature* 1/28/92
DATE

DATE 1-24-92

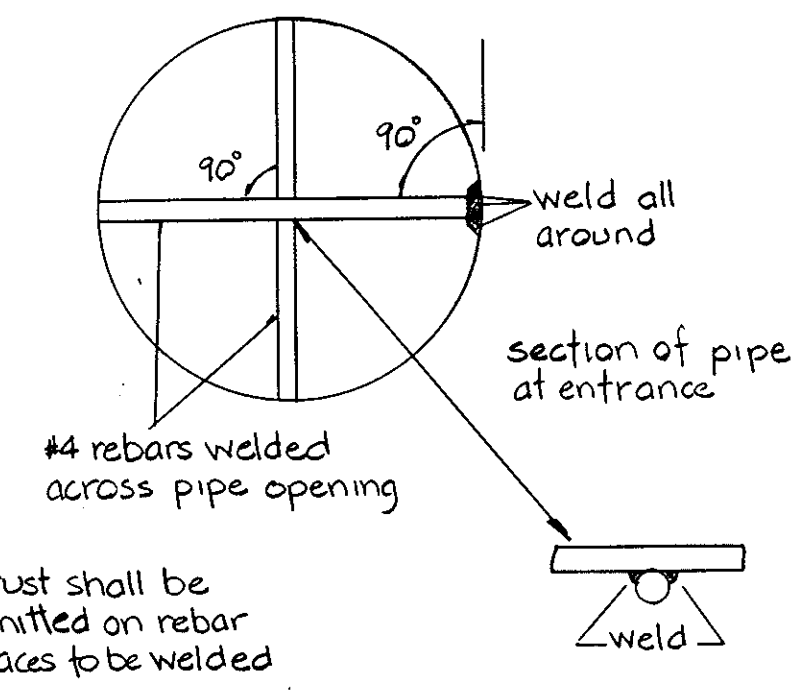
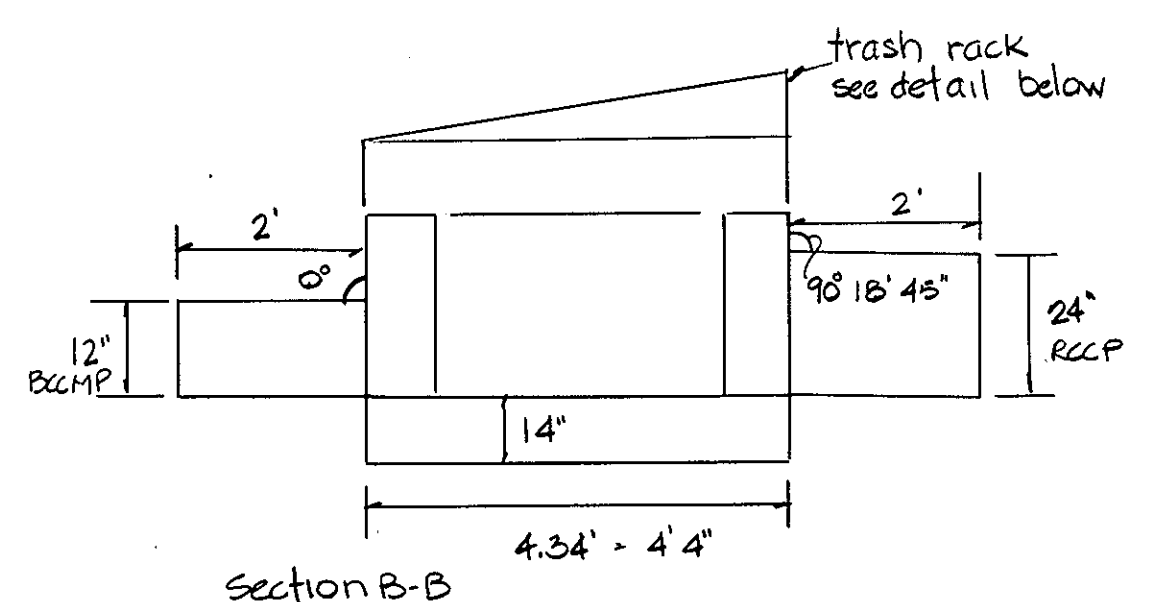
DATE

Profile-Principal Spillway
and
Cross Section of Dam

scale vert 1"=2' hor 1"=20'



- Notes: 1. Slab - concrete base - shall be mix no 3 concrete. 2. Walls shall be reinforced mix no 3 concrete. 3. Reinforcing shall be #4 @ 10' o.c. each way in E of walls. Reinforcing continuous at corners. All lops 1'4".



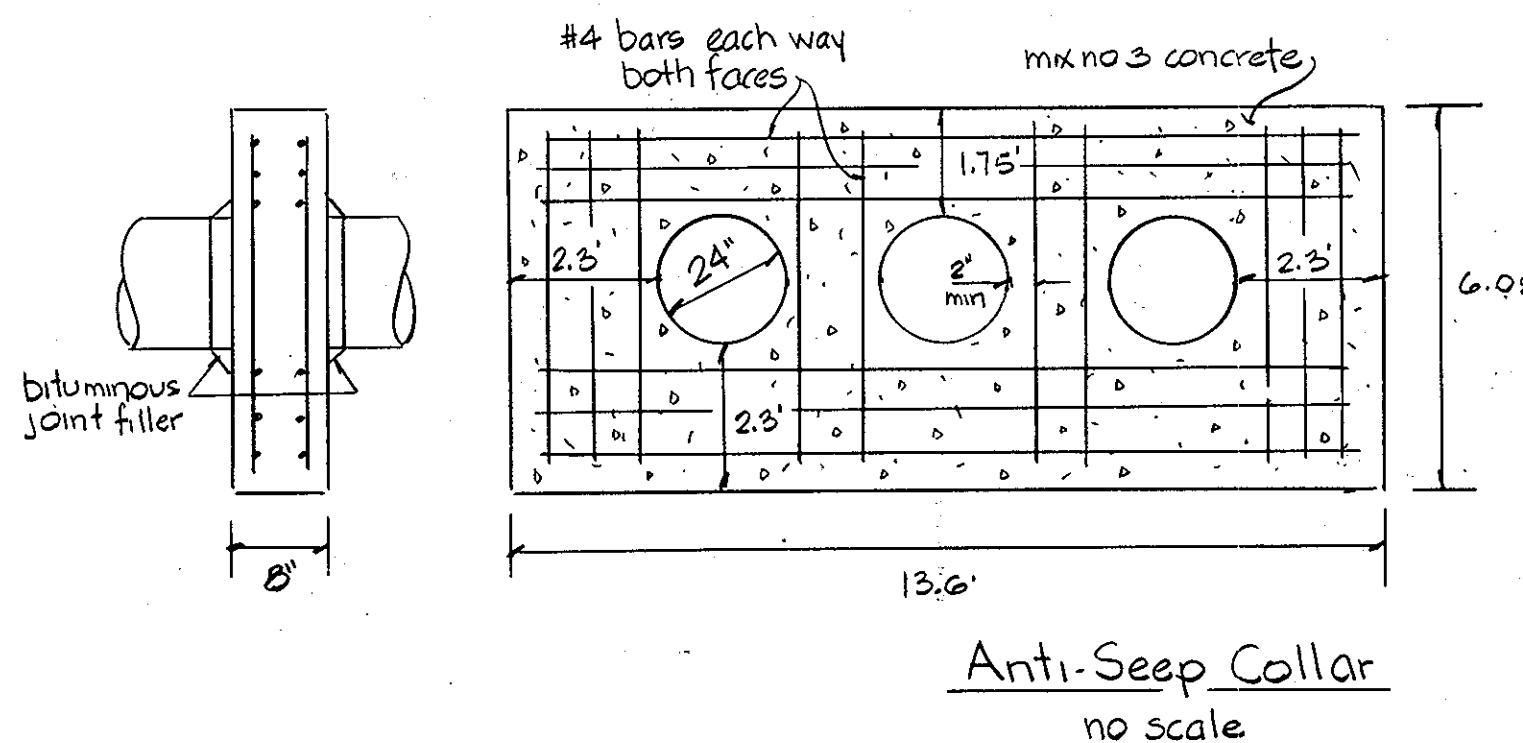
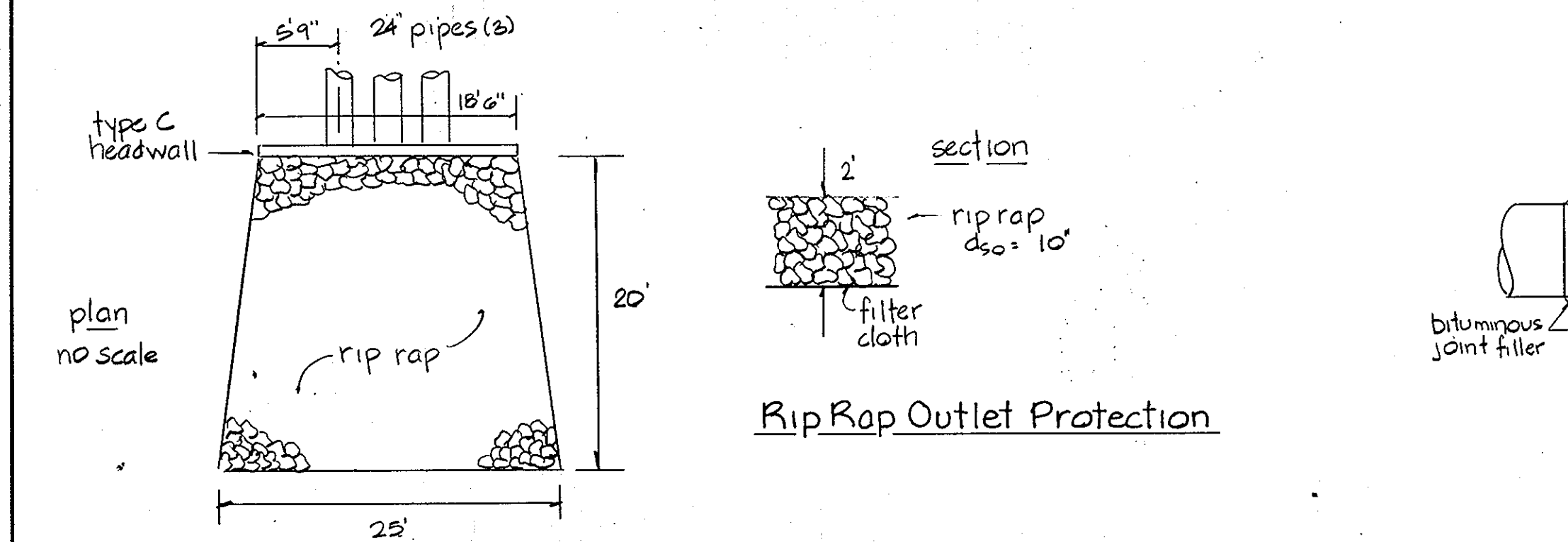
no rust shall be permitted on rebar surfaces to be welded

Riser Details

no scale

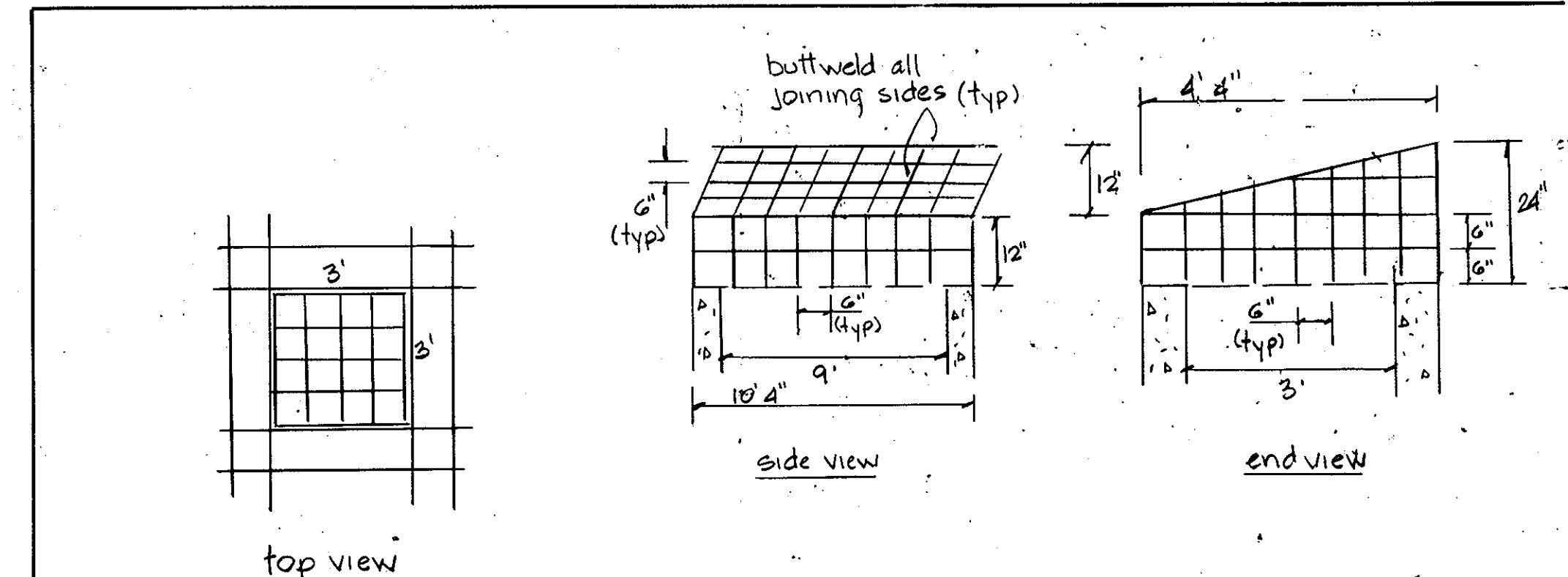
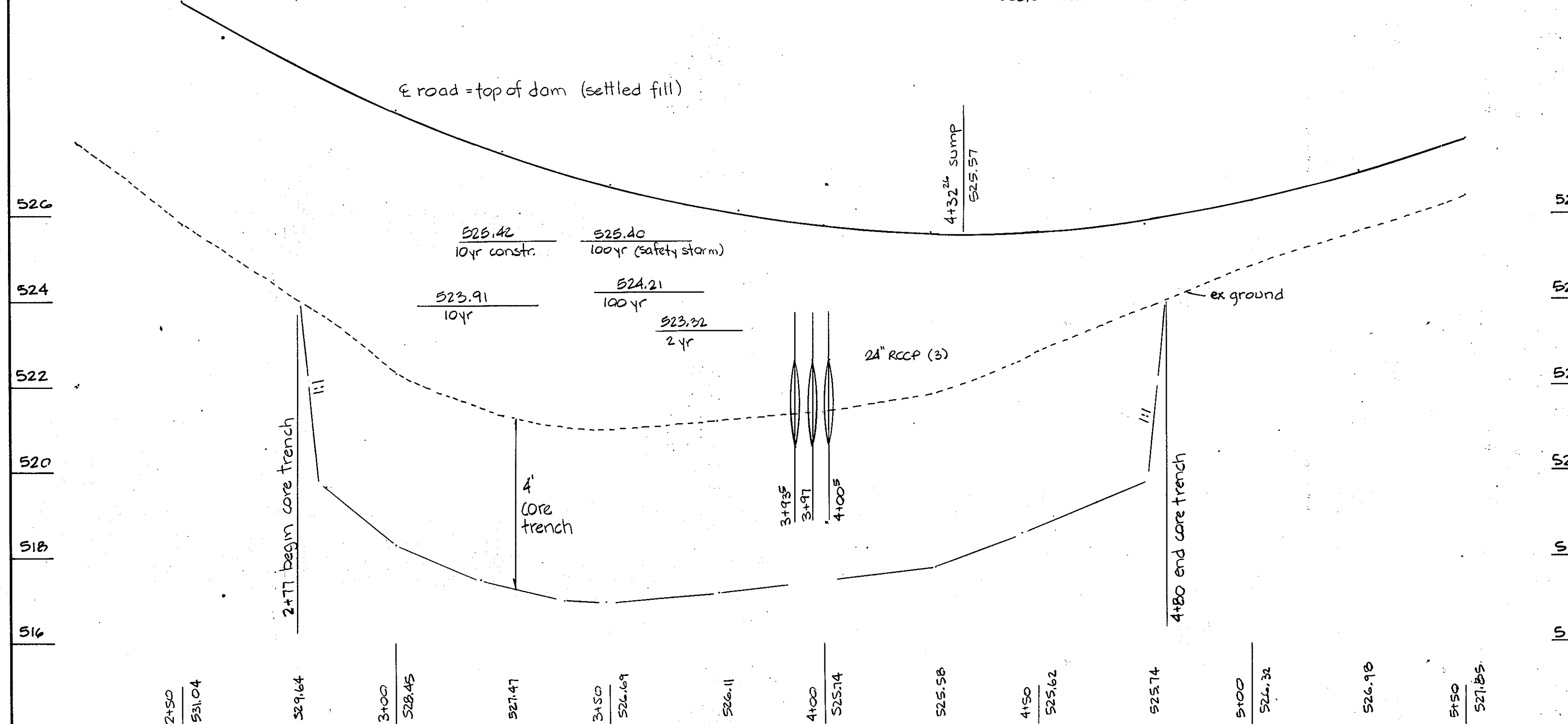
Trash Rack for LowFlow Pipe

no scale



Profile - Centerline of Dam

scale vert 1"=2' hor 1"=20'



on top - leave a 3'x3' opening. fabricate separate grid with the tubing to fit inside 3'x3' opening. bolt over the opening using 2x2x1/8 angles on all 4 sides (Use removable bolts so that grid may be removed for access into riser).

Contractor shall field measure the riser dimensions for exact fitting of trash rack. The entire trash rack shall be galvanized after fabrication.

Riser Trash Rack Details

no scale

Professional Cert. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the Maryland License No. 35310 Expiration Date: 7-2-2012. Includes seal of J. Christopher Batten, Inc.

Stormwater Management Pond #3 Profiles and Details



APPROVAL STAMP

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Approved: [Signature] 1/27/92

Reviewed for HOWARD S.C.D. Name: [Signature] Date: 1/27/92 U.S. Soil Conservation Service

Revised Sheet Numbers 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER: J
SEWER: NONE

JANUARY 24, 1992

J. CHRISTOPHER BATTEN, INC. Land Planning & Design Consultant. 8 North Church Street, Westminster, Maryland 21157, 301-476-3383. SHEET S-16 SDP 34 of 38 of 20

880

REVIEWED NO FACILITIES REQUIRED

HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd
1/27/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James A. Smith
1/27/92

APPROVED: DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
Annual Belmont
1/27/92

APPROVED: FOR PRIVATE WATER AND NO GENERATE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James A. Smith
1/27/92

APPROVED: CHIEF, BUREAU OF ENGINEERING
James A. Smith
1/27/92

APPROVAL STAMP

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved: [Signature]
1/27/92

Reviewed for: HOWARD S.C.D.

Name: [Signature]
Signature: [Signature]
U.S. Soil Conservation Service

Crossed out Sediment Control notes Revised Sheet Numbers 5-29-2012

SITE DATA

OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS

PROPOSED IMPROVEMENT: PARK DEED REF. LIBER 847, FOLIO 006

TAX MAP #10, PARCEL #23

ELECTION DISTRICT #3

CENSUS TRACT: 0030

SEWER: NONE

JANUARY 24, 1992

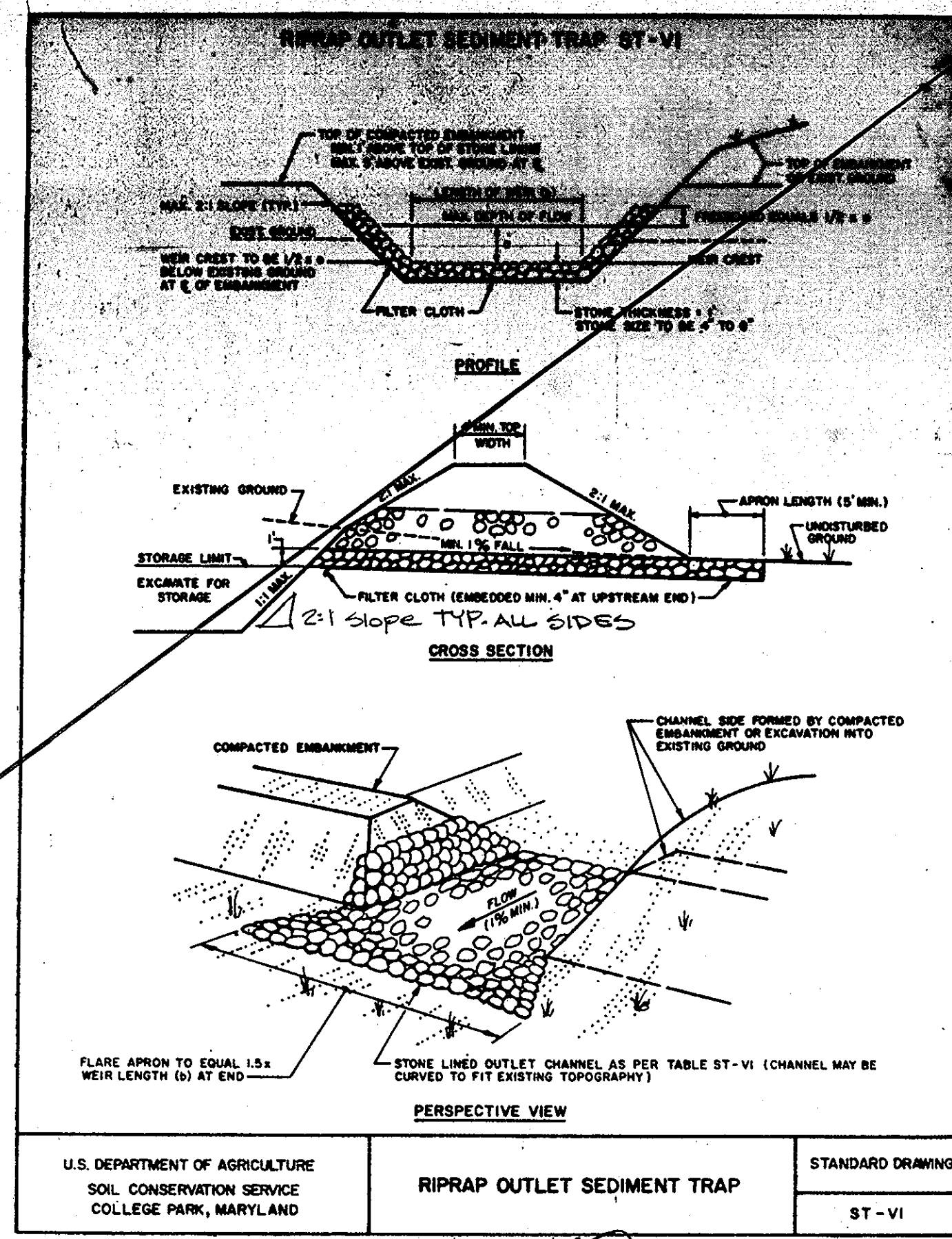
REVISOR: IN-LINE SKATE RINK SEDIMENT CONTROL MEASURES

J. CHRISTOPHER BATTEN, INC. Land Planning & Design Consultant

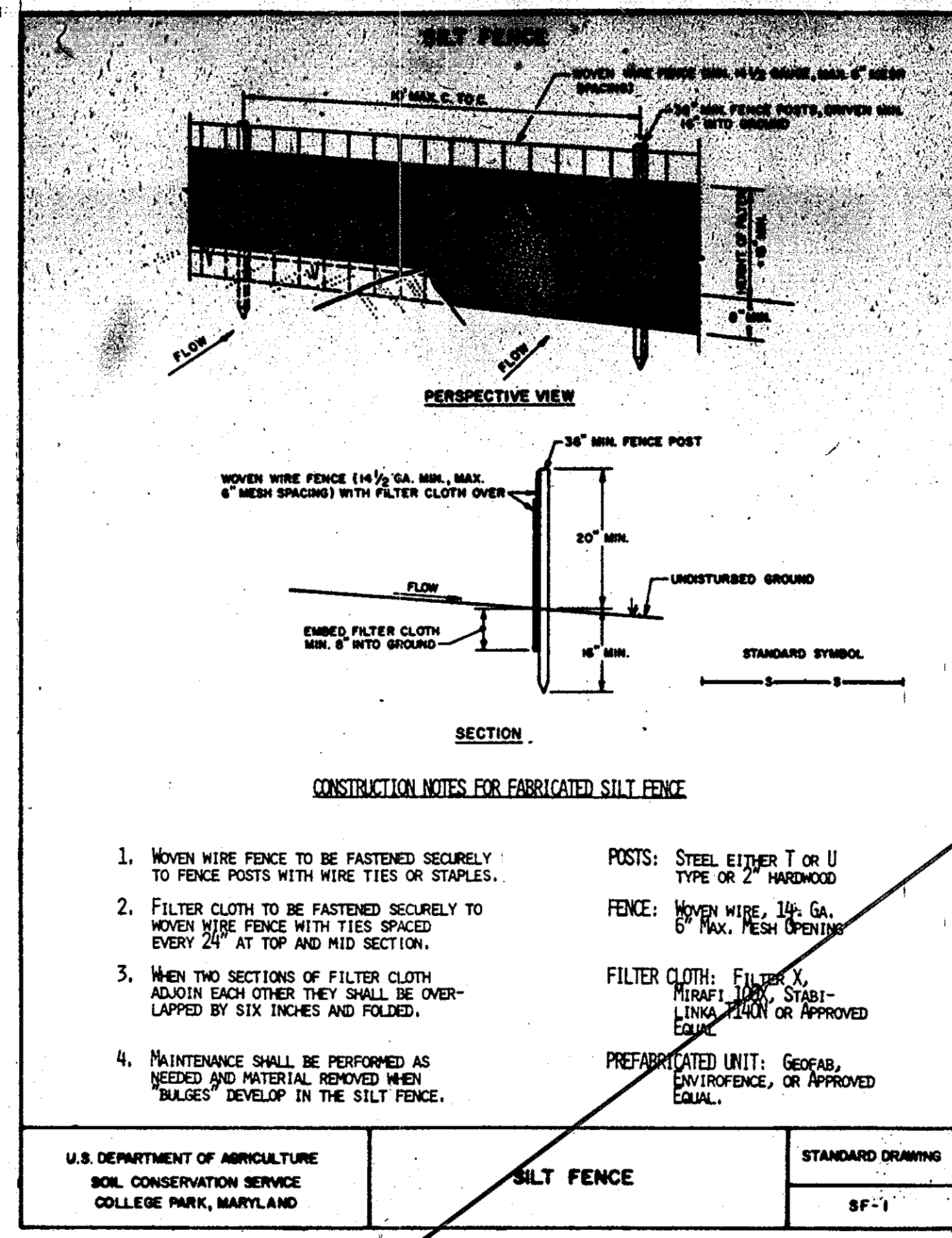
8 North Church Street Westminister, Maryland 21157 301-876-3383

SHEET S-18 SDP 30 of 38 of 20

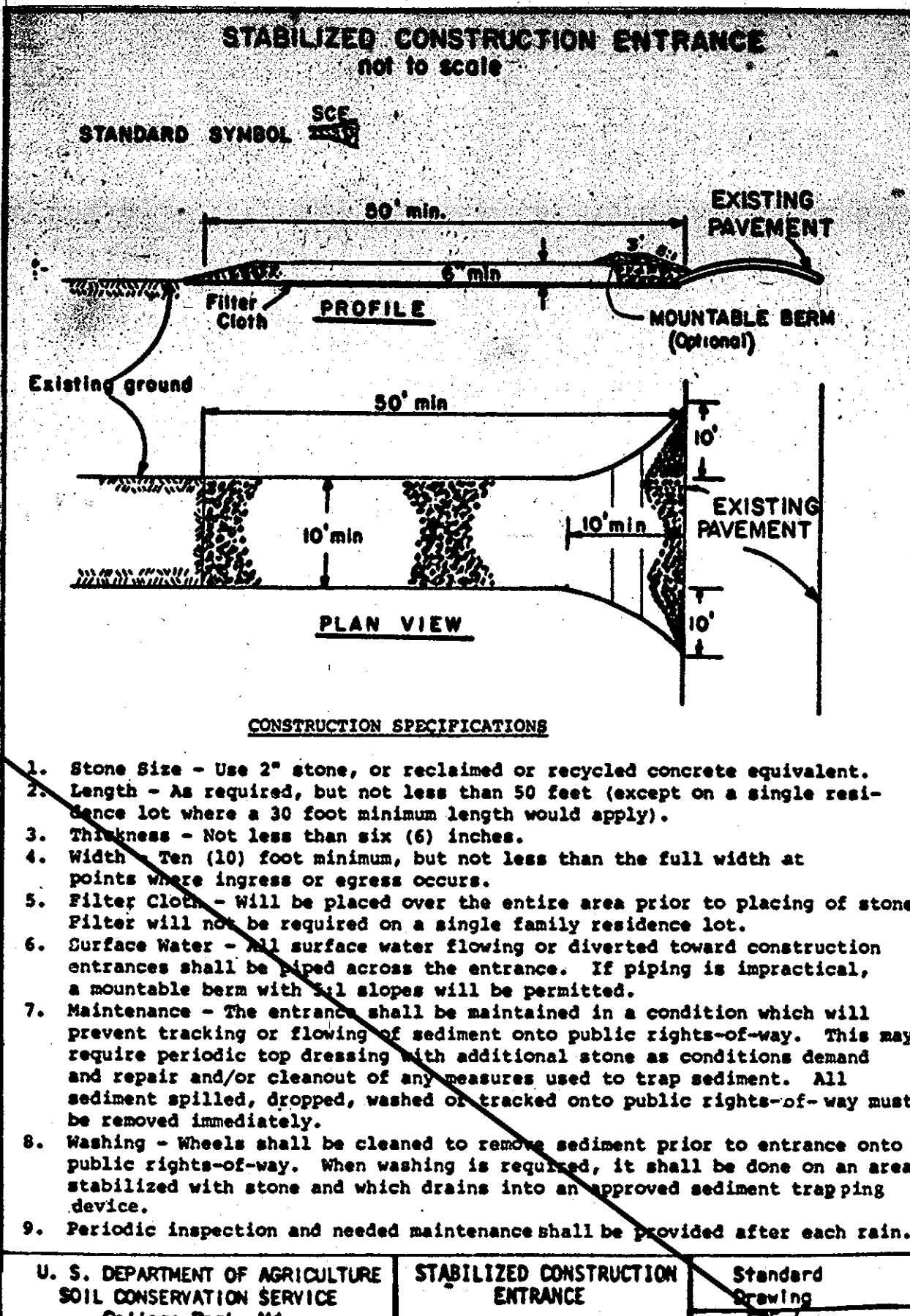
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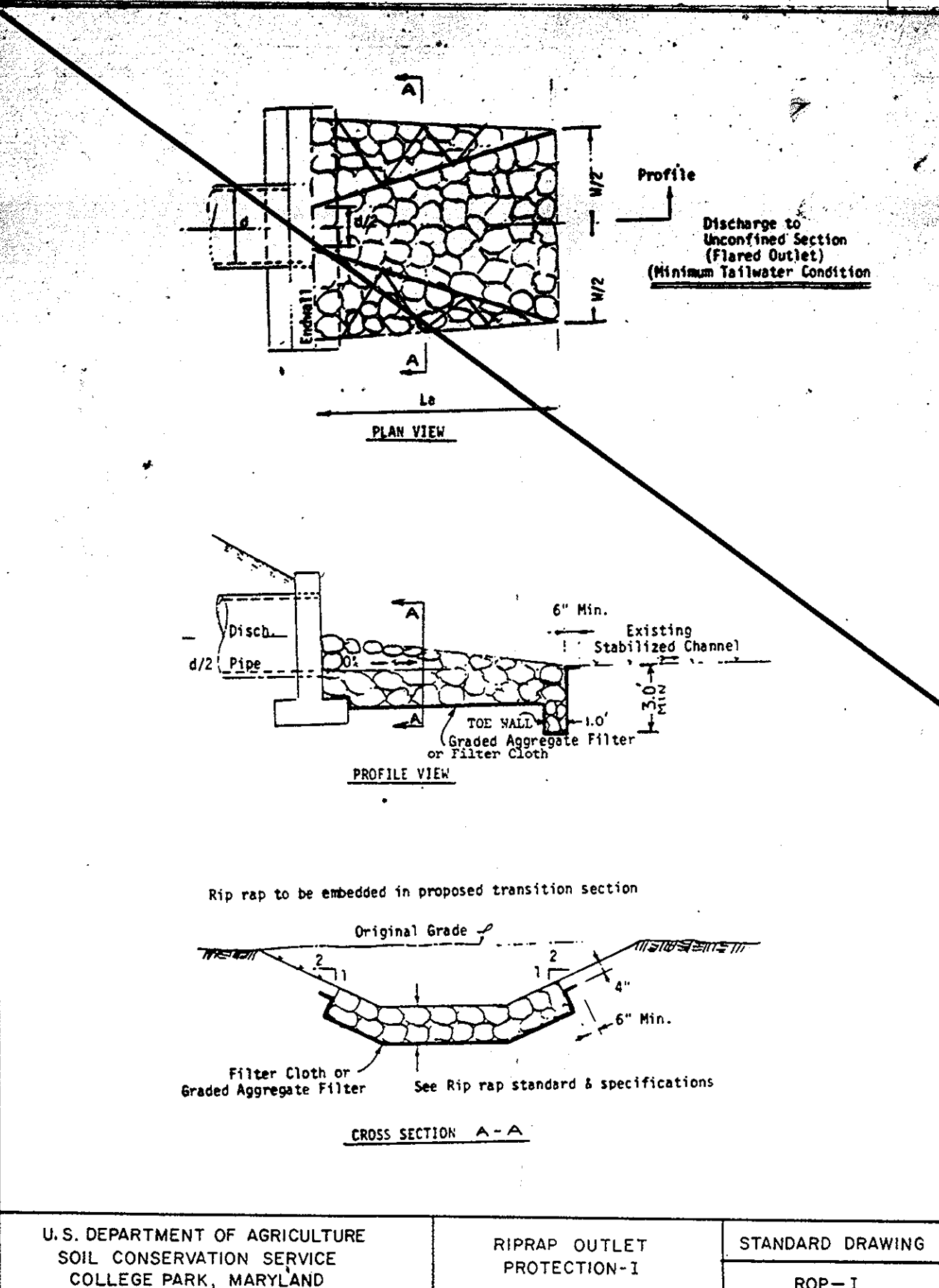
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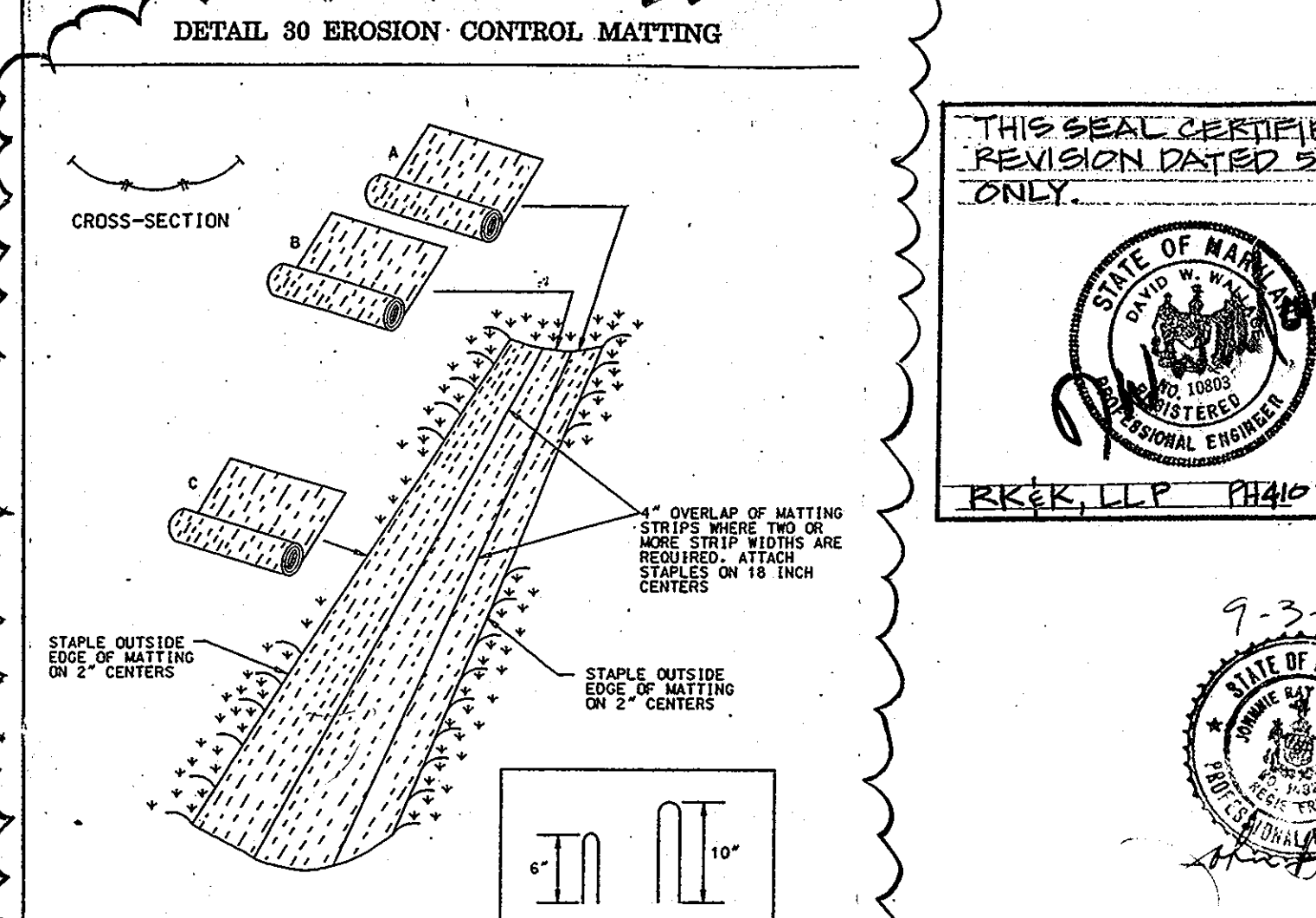
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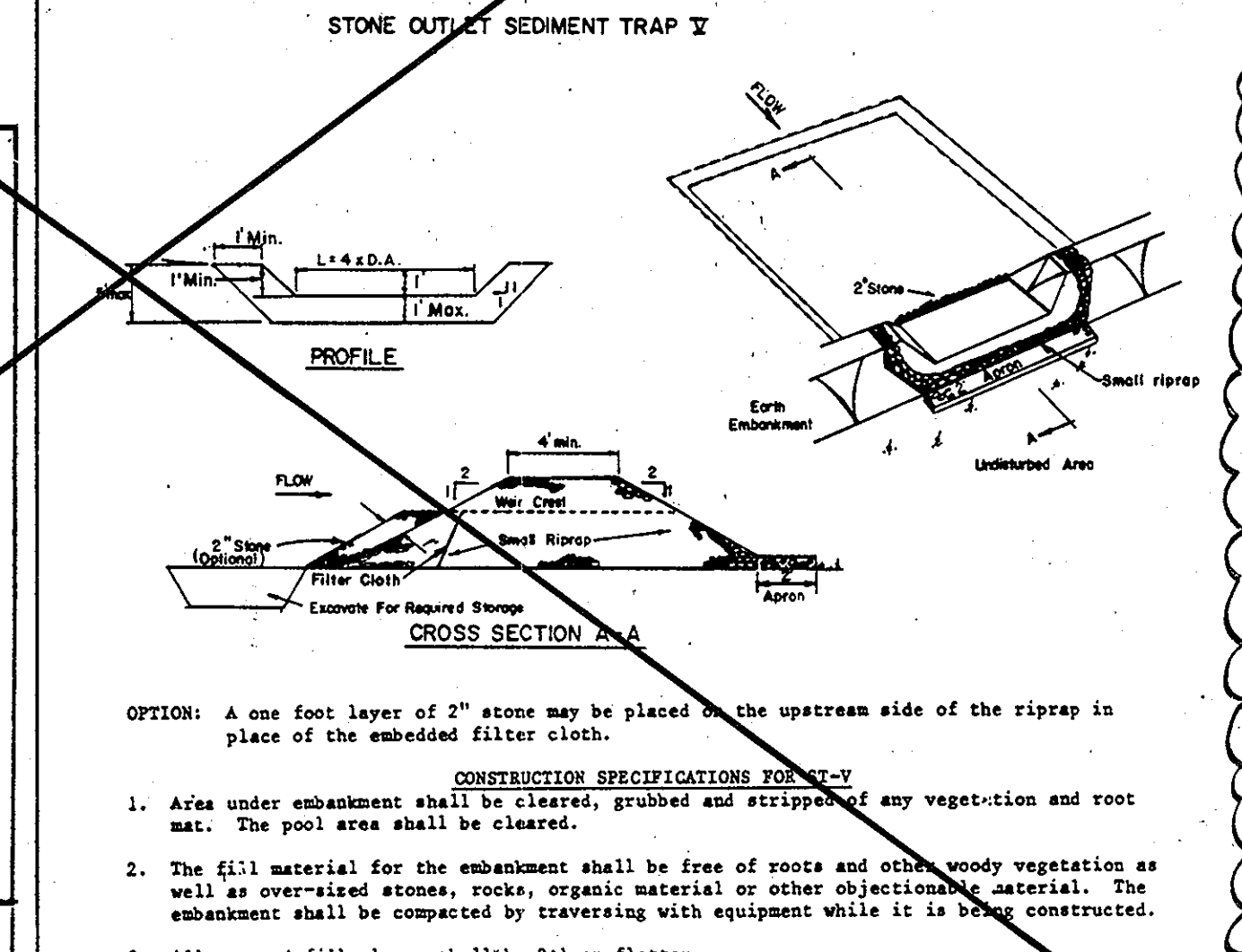
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD. STABILIZED CONSTRUCTION ENTRANCE Standard Drawing SCE-1



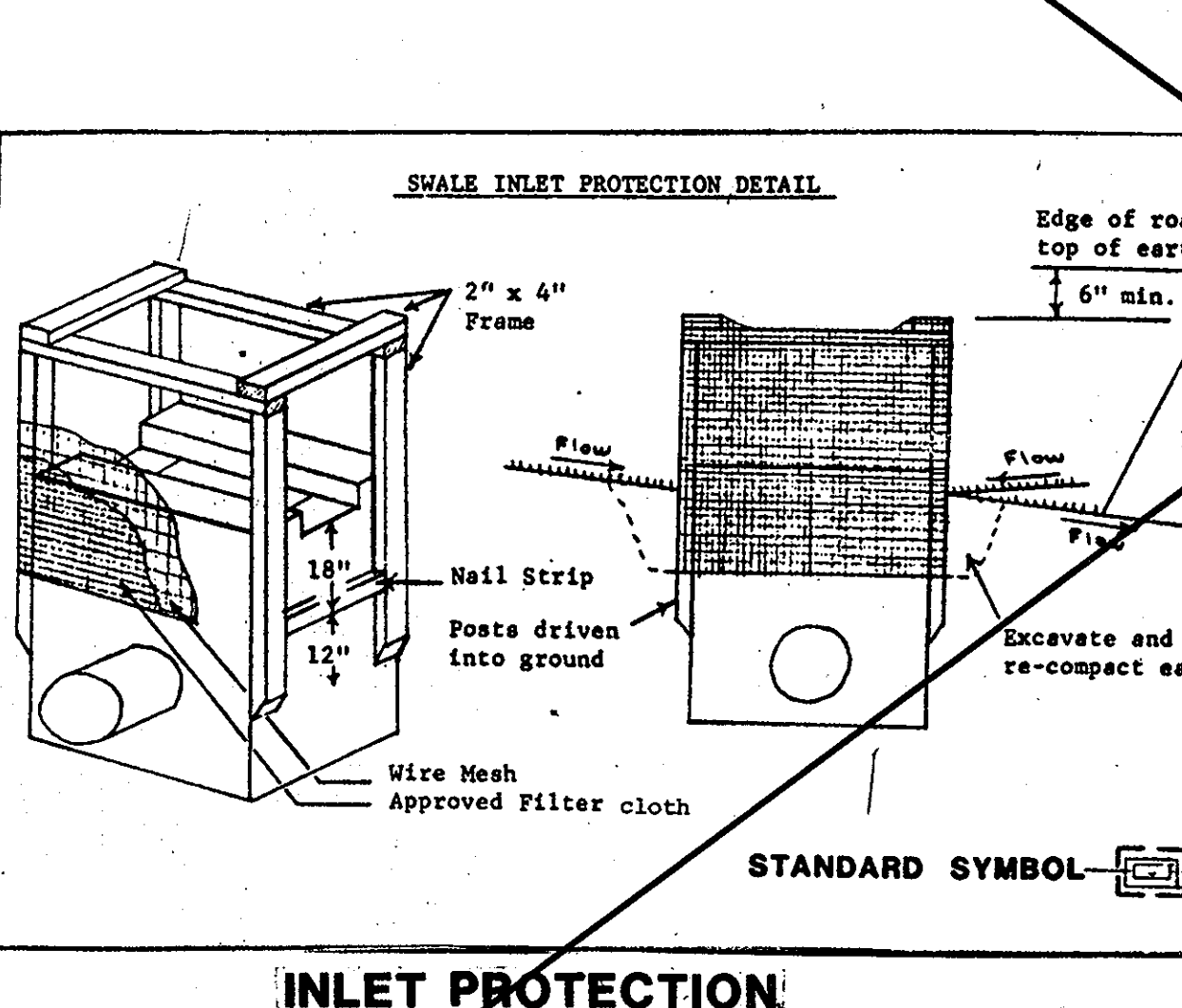
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND RIPRAP OUTLET PROTECTION-I STANDARD DRAWING ROP-I



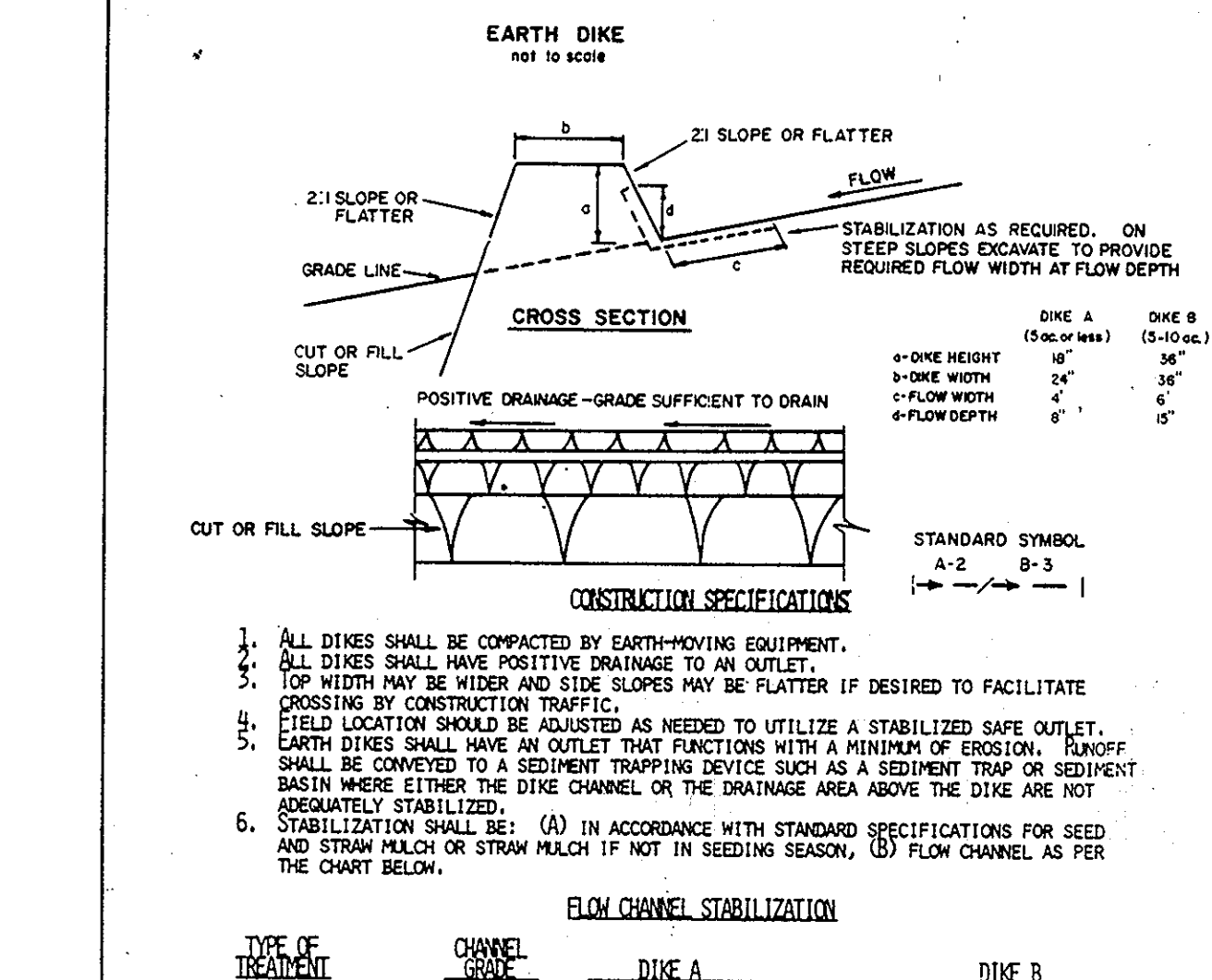
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND DETAIL 30 EROSION CONTROL MATTING STANDARD DRAWING ST-30



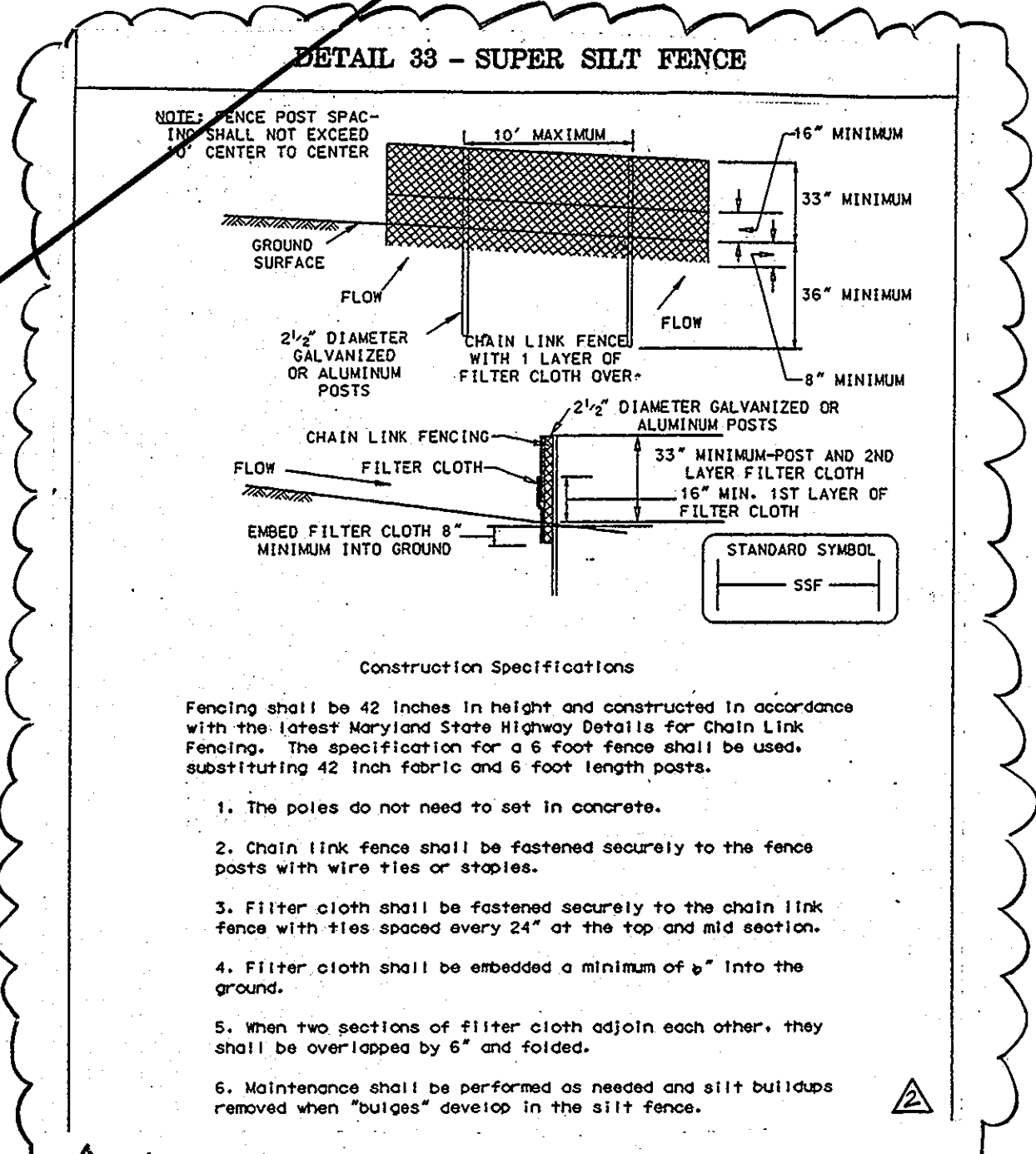
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND STONE OUTLET SEDIMENT TRAP STANDARD DRAWING ST-X



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD. INLET PROTECTION STANDARD DRAWING IP-1



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND EARTH DIKE STANDARD DRAWING ED-1



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD. DETAIL 33 - SUPER SILT FENCE STANDARD DRAWING SSF-1

CERTIFICATION: 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 authorize periodic on-site inspection by the Howard Soil Conservation District.

Reviewed for HOWARD SCD and meets Technical Requirements. Clean Summary 5/15/00 USDA Natural Resources Conservation Service. This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

THIS SEAL CERTIFIES THE REVISION DATED 5-29-2012, ONLY GRI, Inc. 410-880-3055 Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 33310, Expiration Date: 7-2-2012

SEDIMENT CONTROL DETAILS

9-3-91

REVIEWED NO FACILITIES REQUIRED
HOWARD COUNTY HEALTH DEPARTMENT

Joseph M. Boydinger, Esq. 1/24/92
COUNTY HEALTH OFFICER DATE

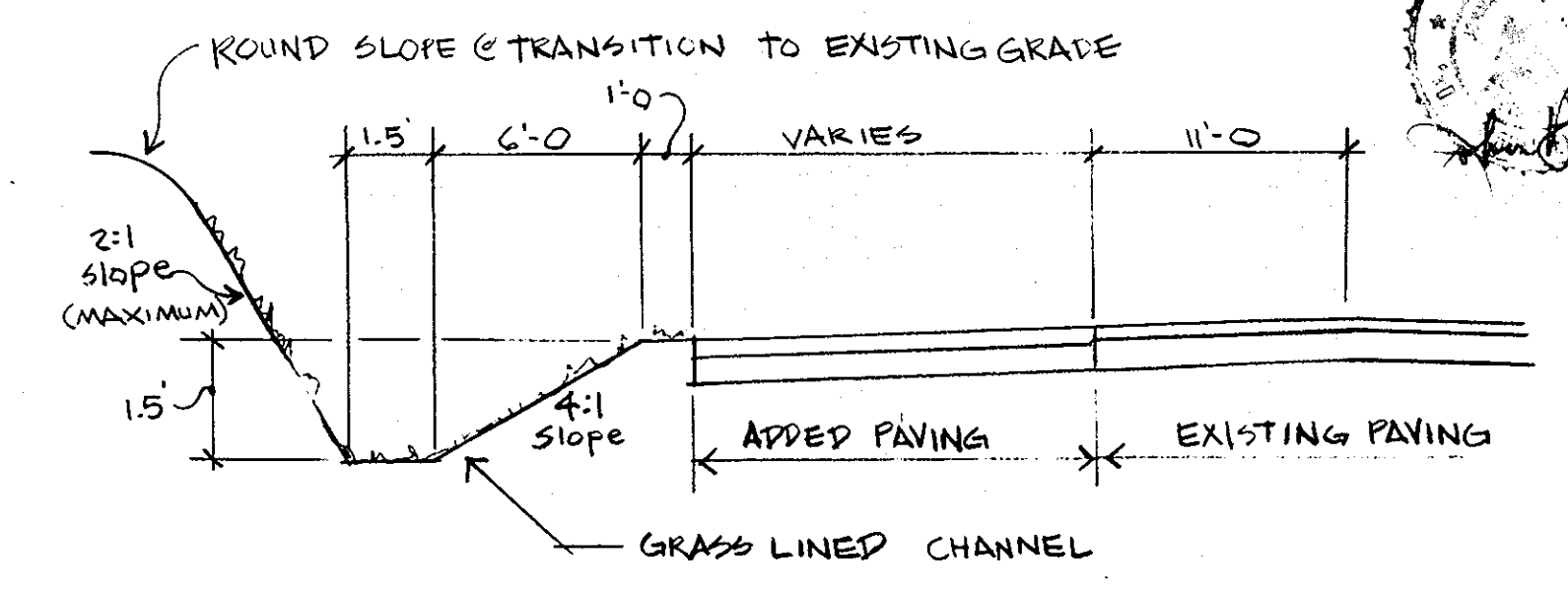
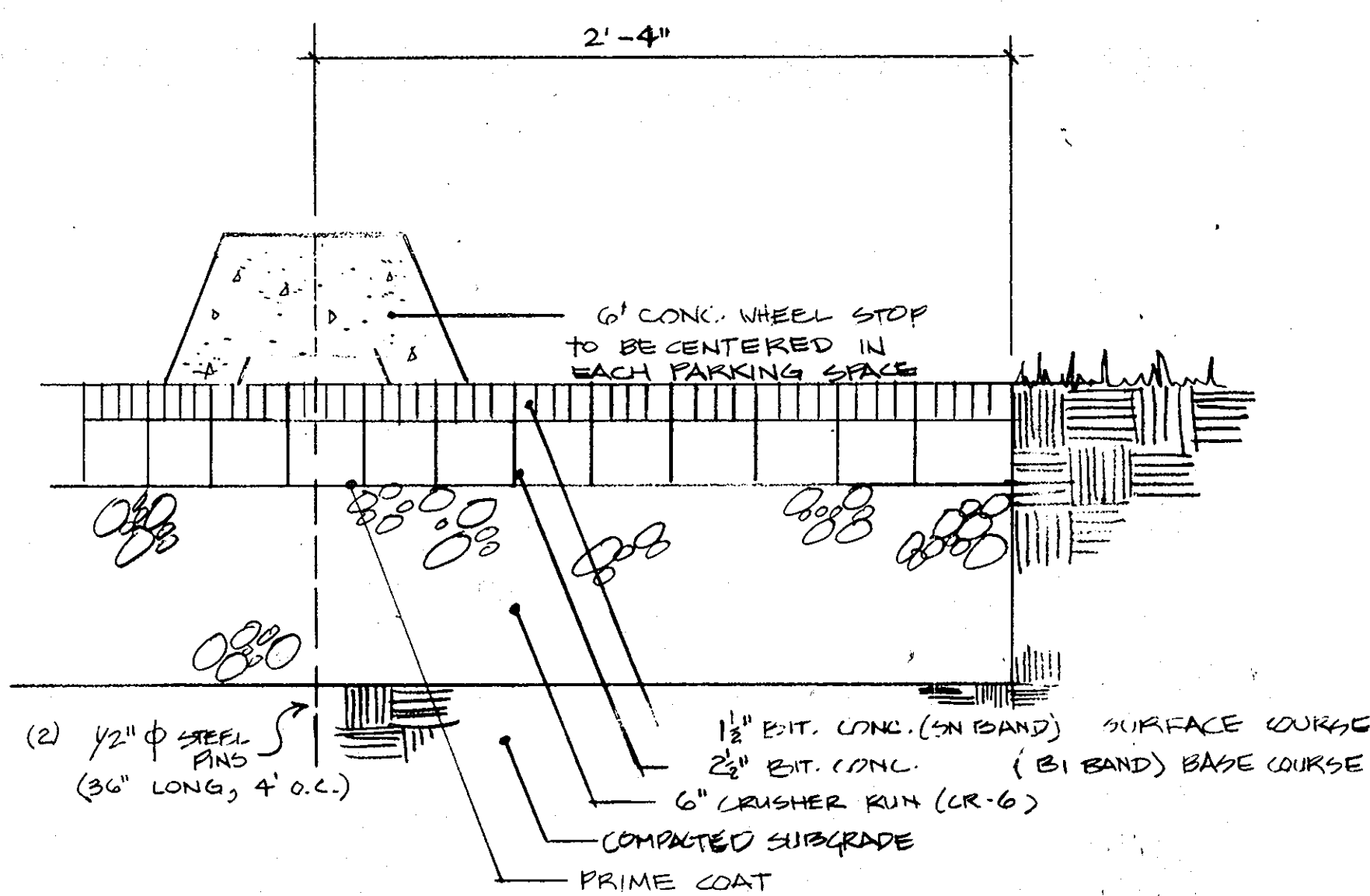
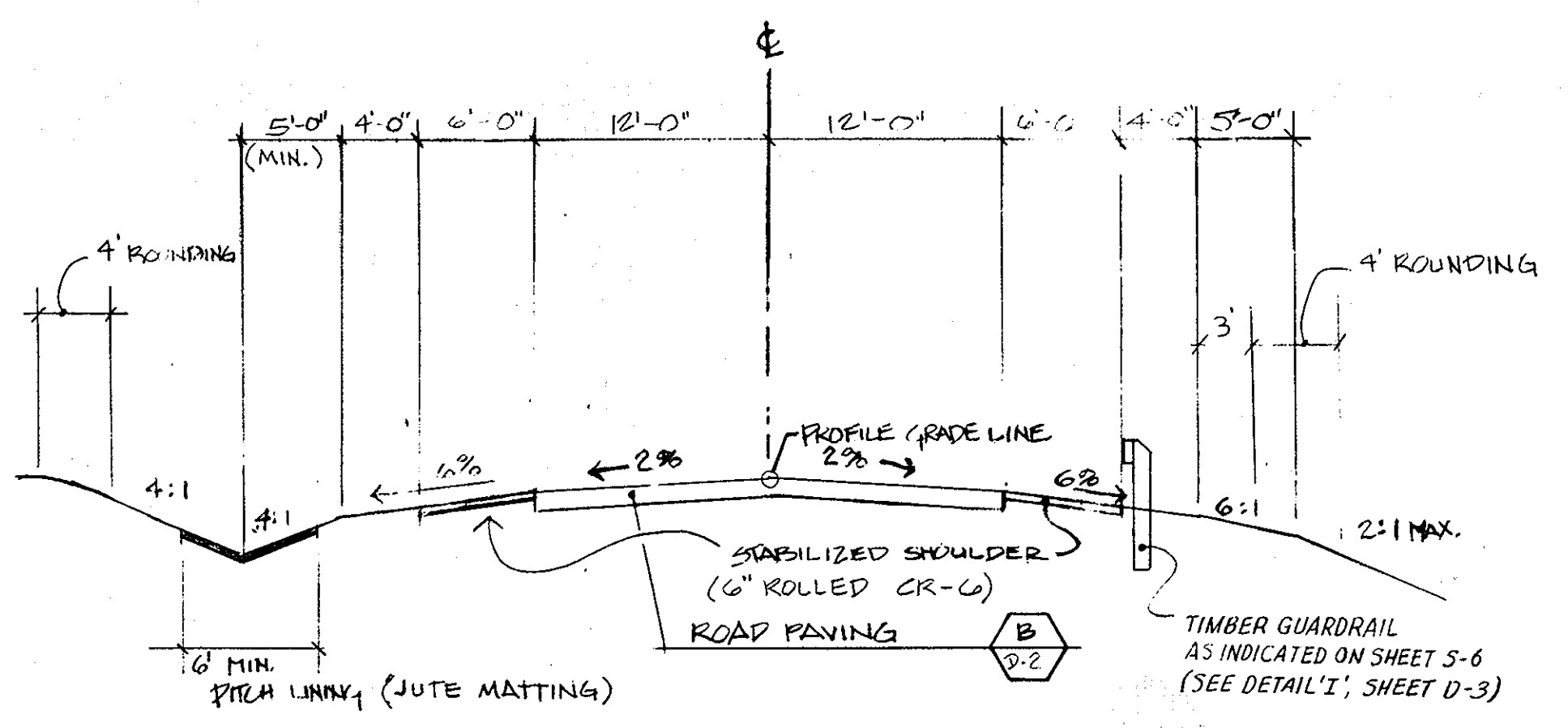
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR 1/27/92

Edward Holmstedt 1/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. ... 1/24/92
DIRECTOR DATE

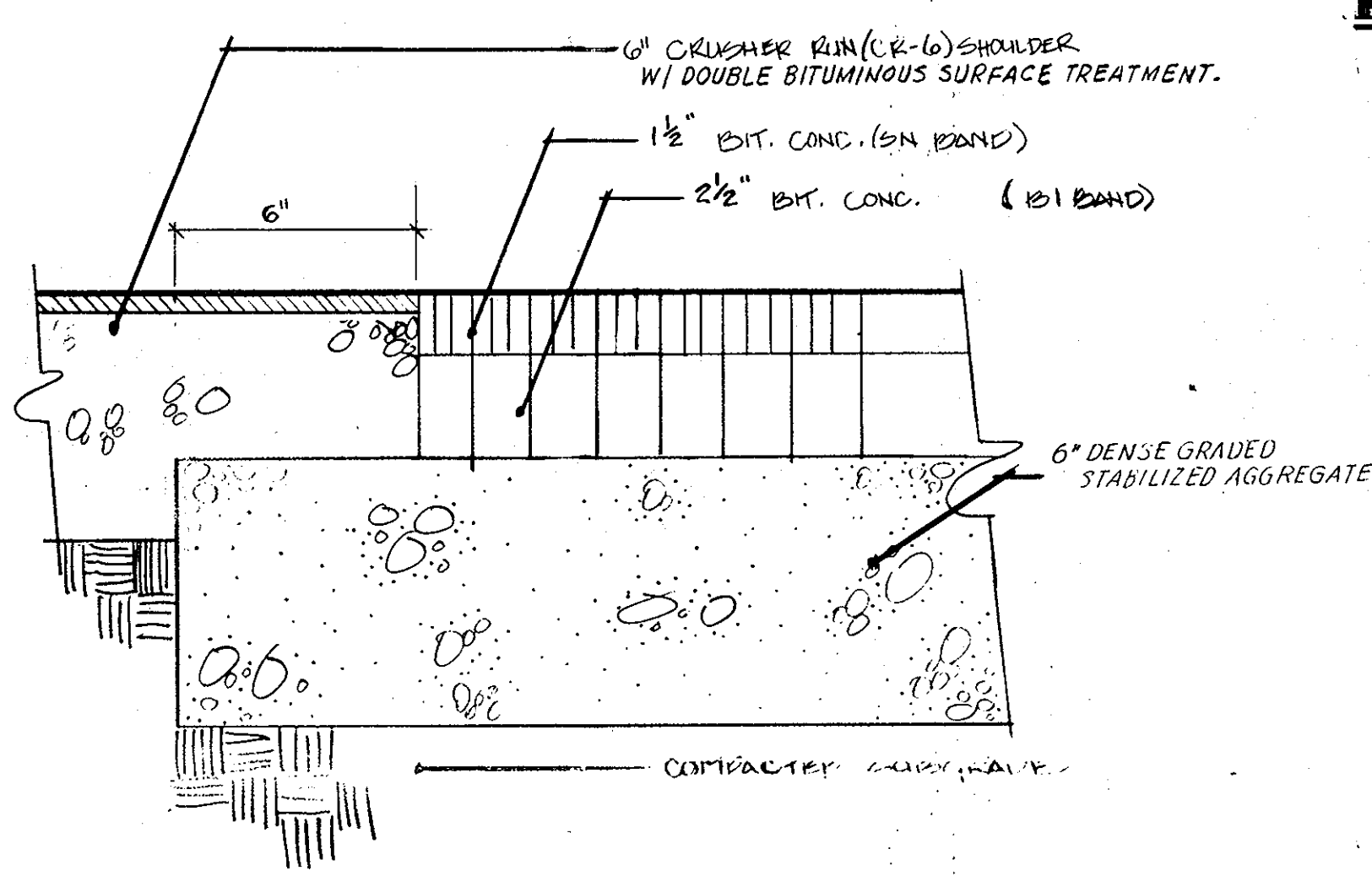
... 1-24-92
CHIEF, BUREAU OF ENGINEERING DATE



ROUTE 99 - CHANGE OF SPEED LANE (WEST) NTS

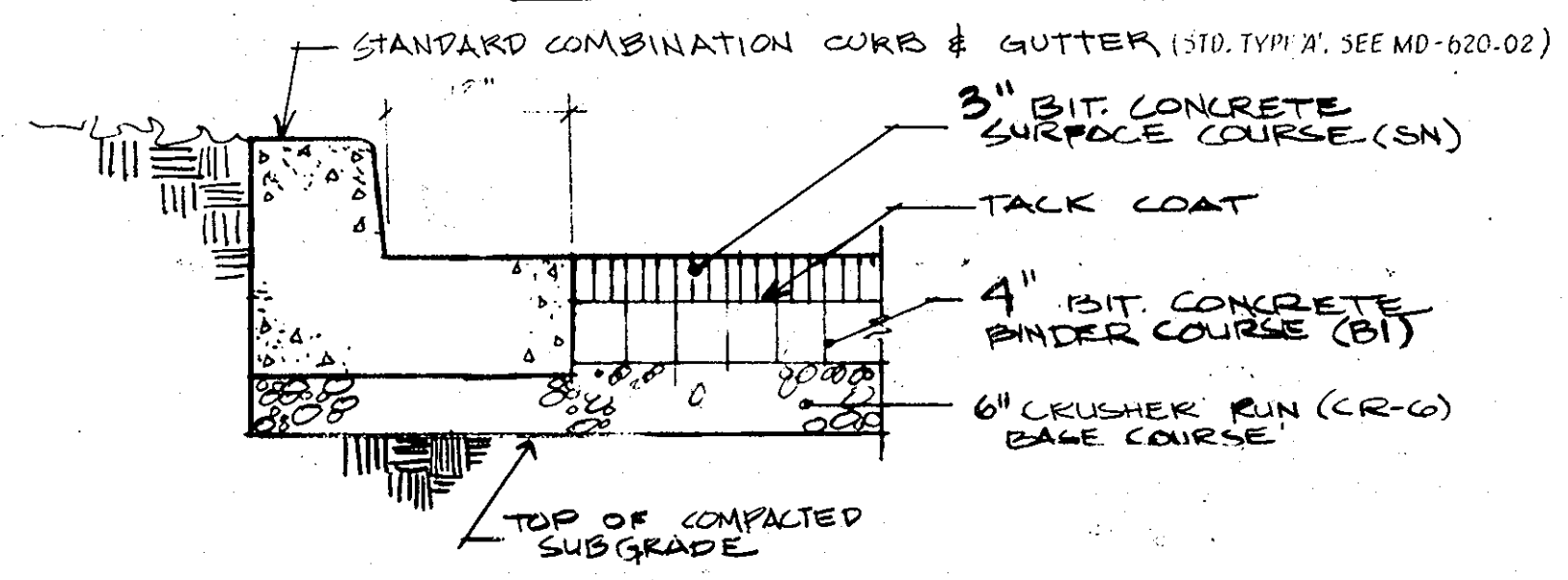
TYPICAL ROAD SECTION NTS

PARKING LOT PAVING & WHEEL STOPS NTS

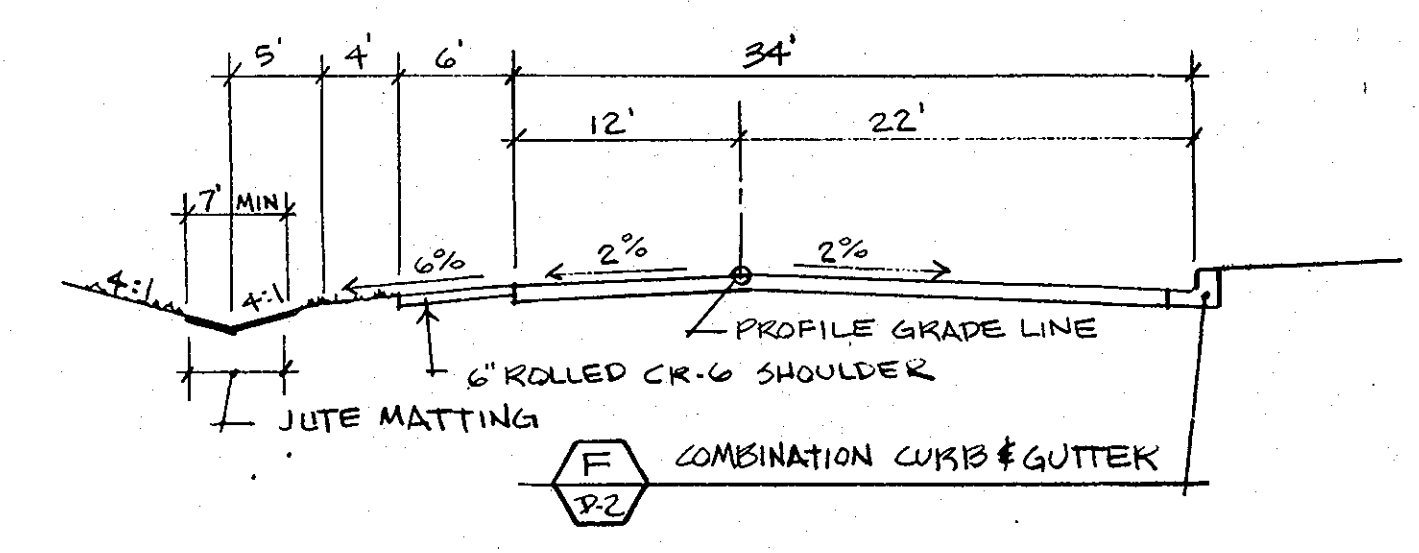


ROAD PAVING #1 (FOR PARK ROADS & PARKING) NTS

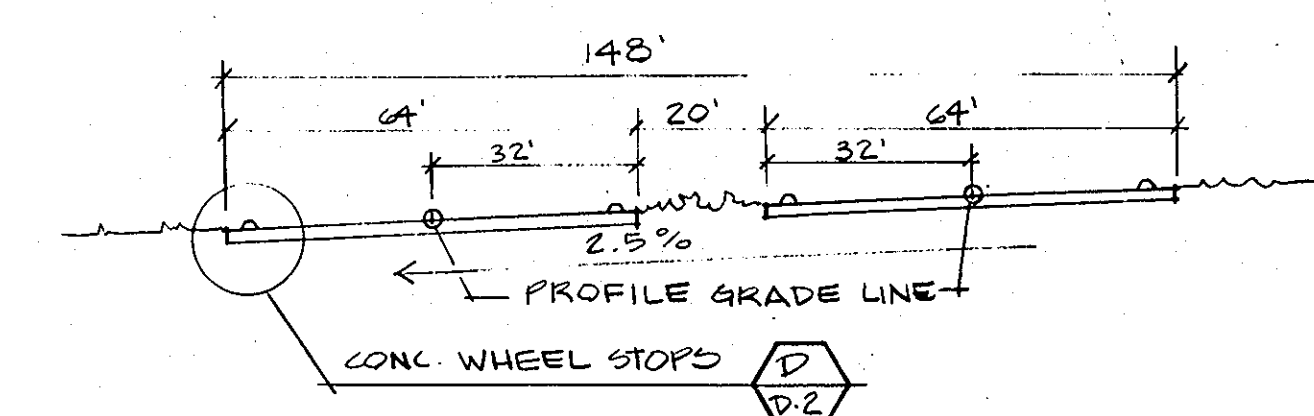
Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland License No. 83310, Expiration Date: 7-2-2012.



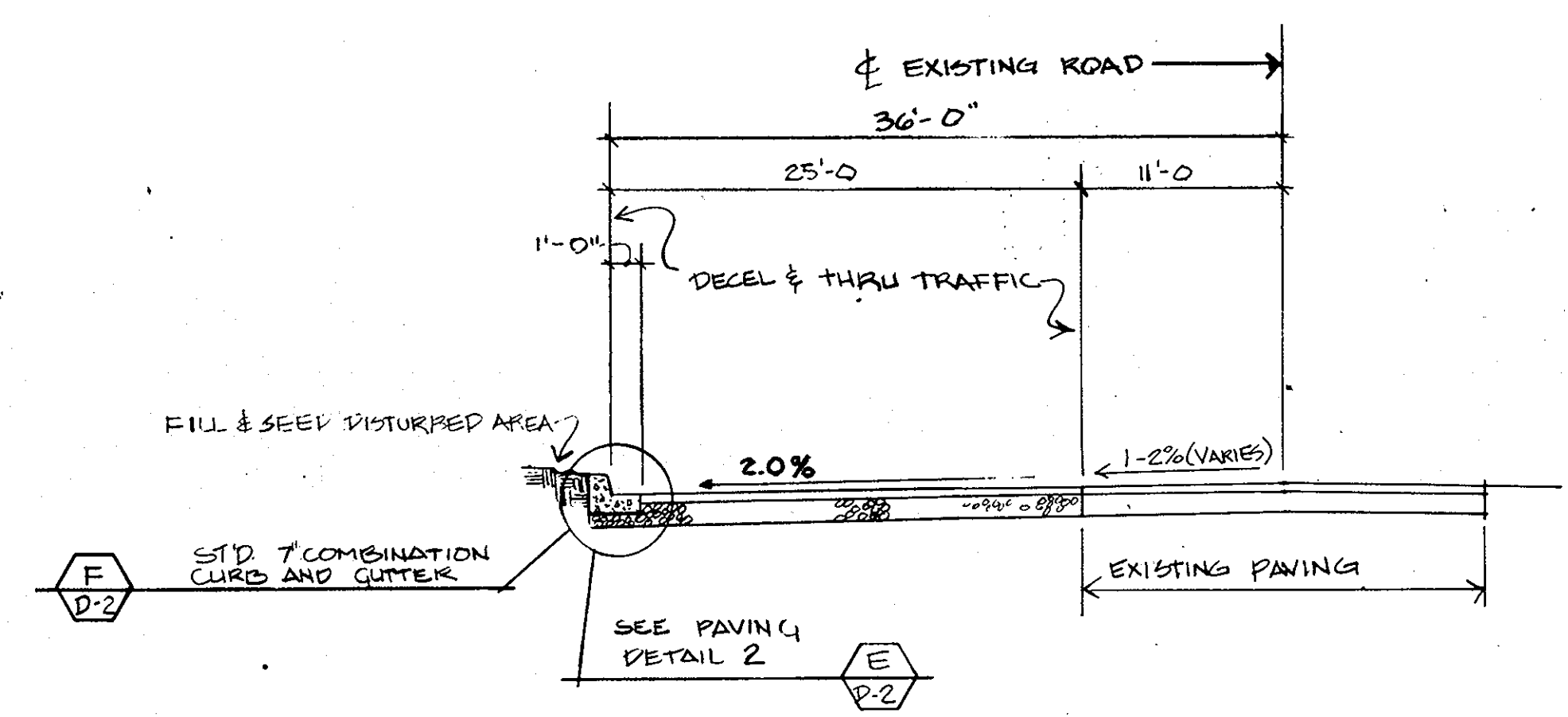
ROAD PAVING #2 (For State Highway) WITH MD. STATE HIGHWAY ADMIN. STD. TYPE 'A' COMBINATION CURB & GUTTER (MD-620.02) NTS



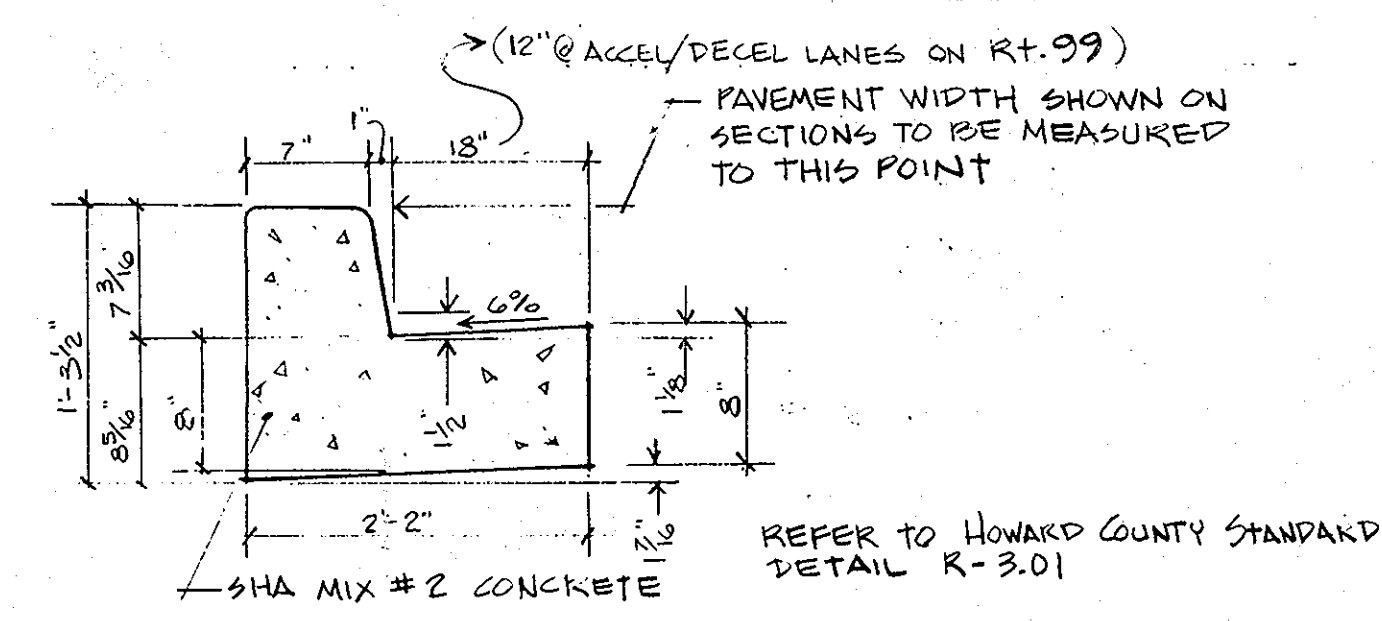
ROAD at DROP OFF/PICK UP NTS



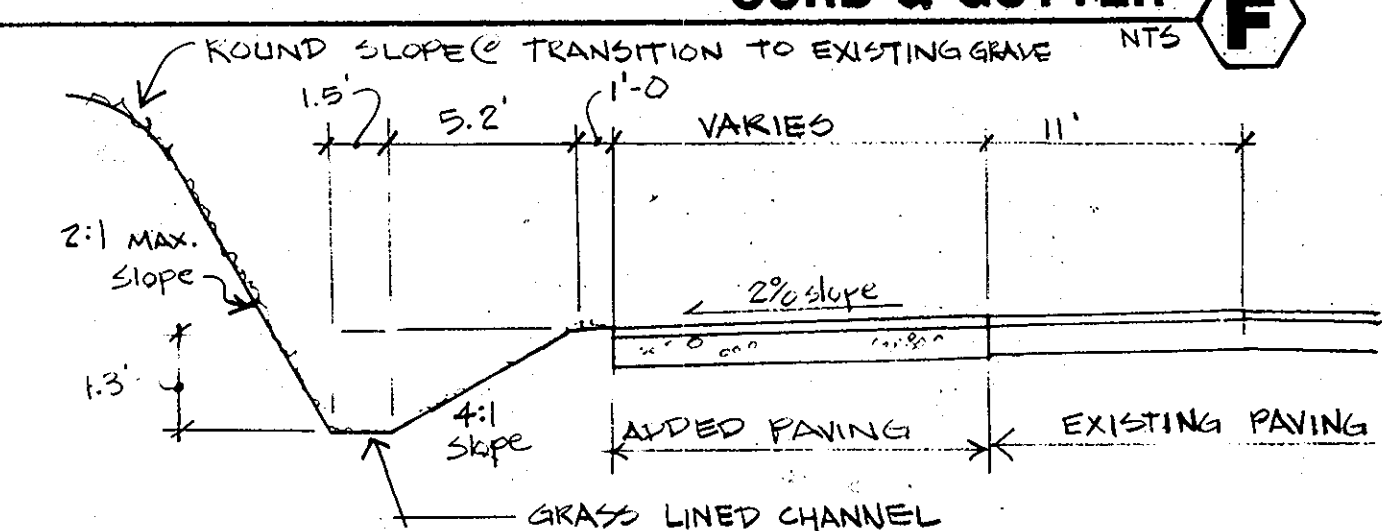
MAIN PARKING LOT NTS



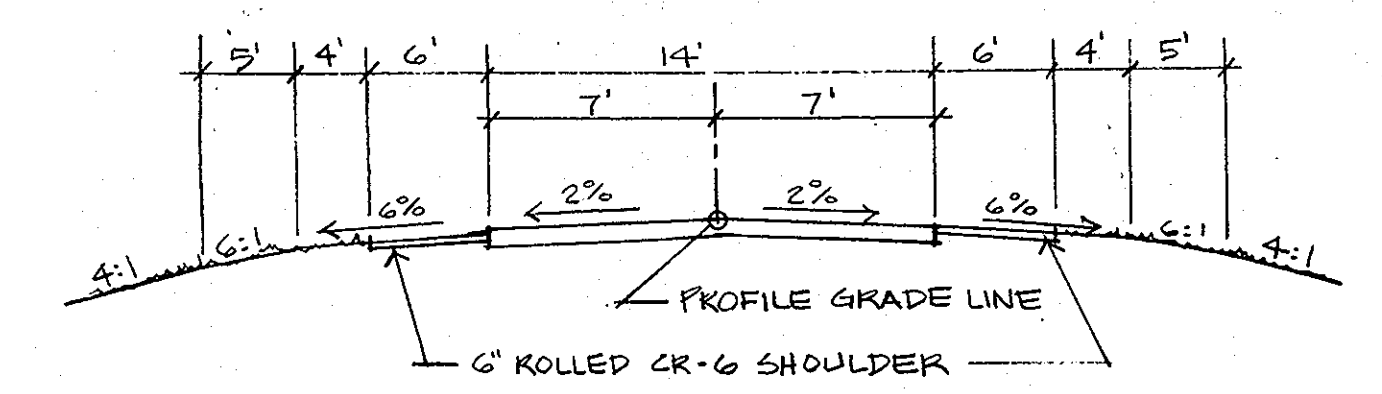
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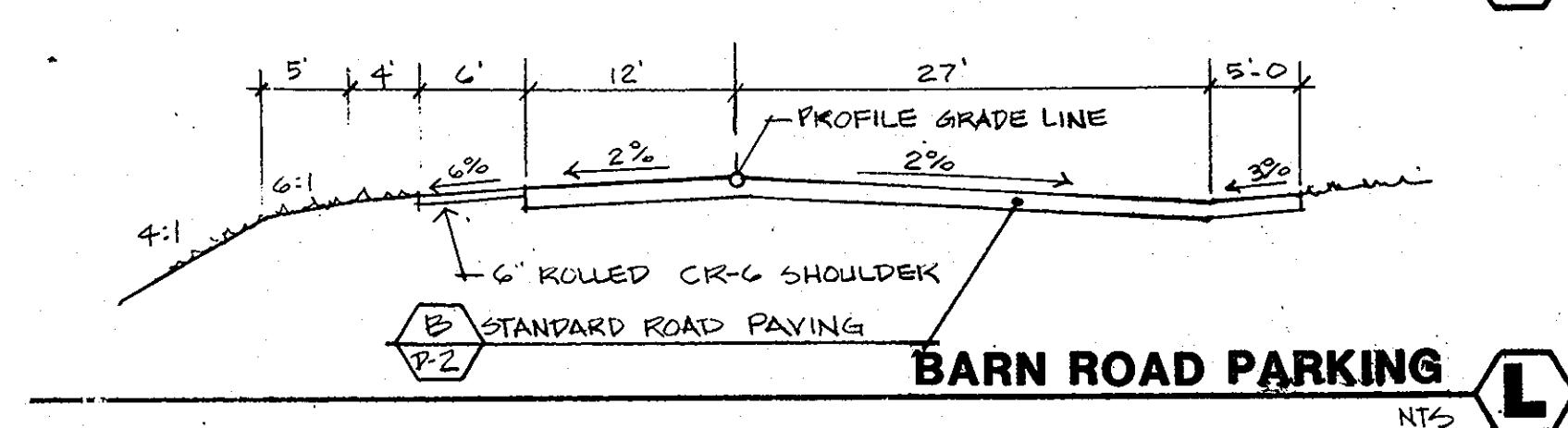
CURB & GUTTER NTS



ROUTE 99 - CHANGE OF SPEED LANE (EAST) NTS



BARN/SERVICE ROAD NTS



BARN ROAD PARKING NTS

ROAD SECTIONS & DETAILS

Revised Sheet Numbers 5-29-2012

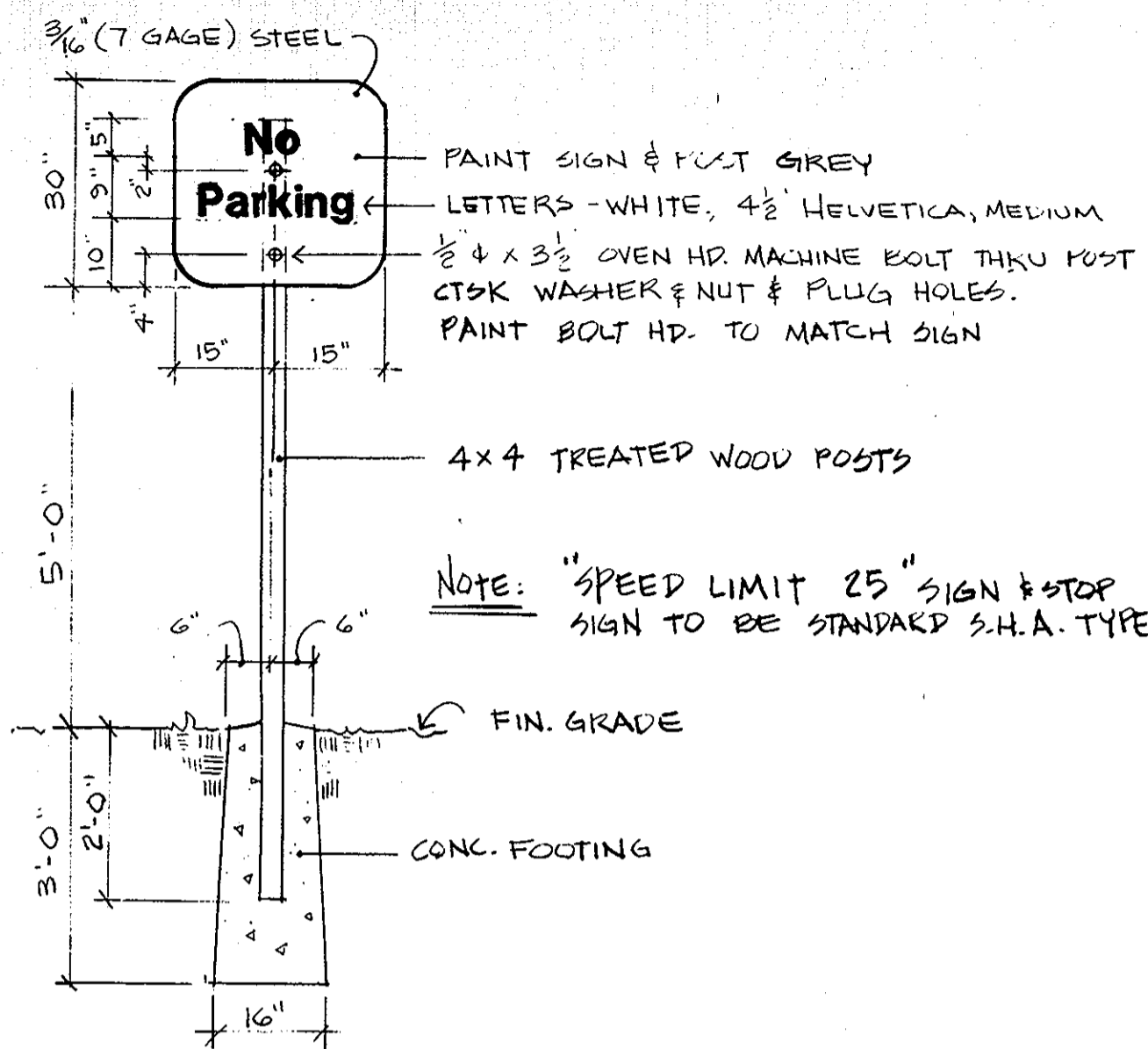
SITE DATA
OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER:
SEWER: NONE

JANUARY 24, 1992

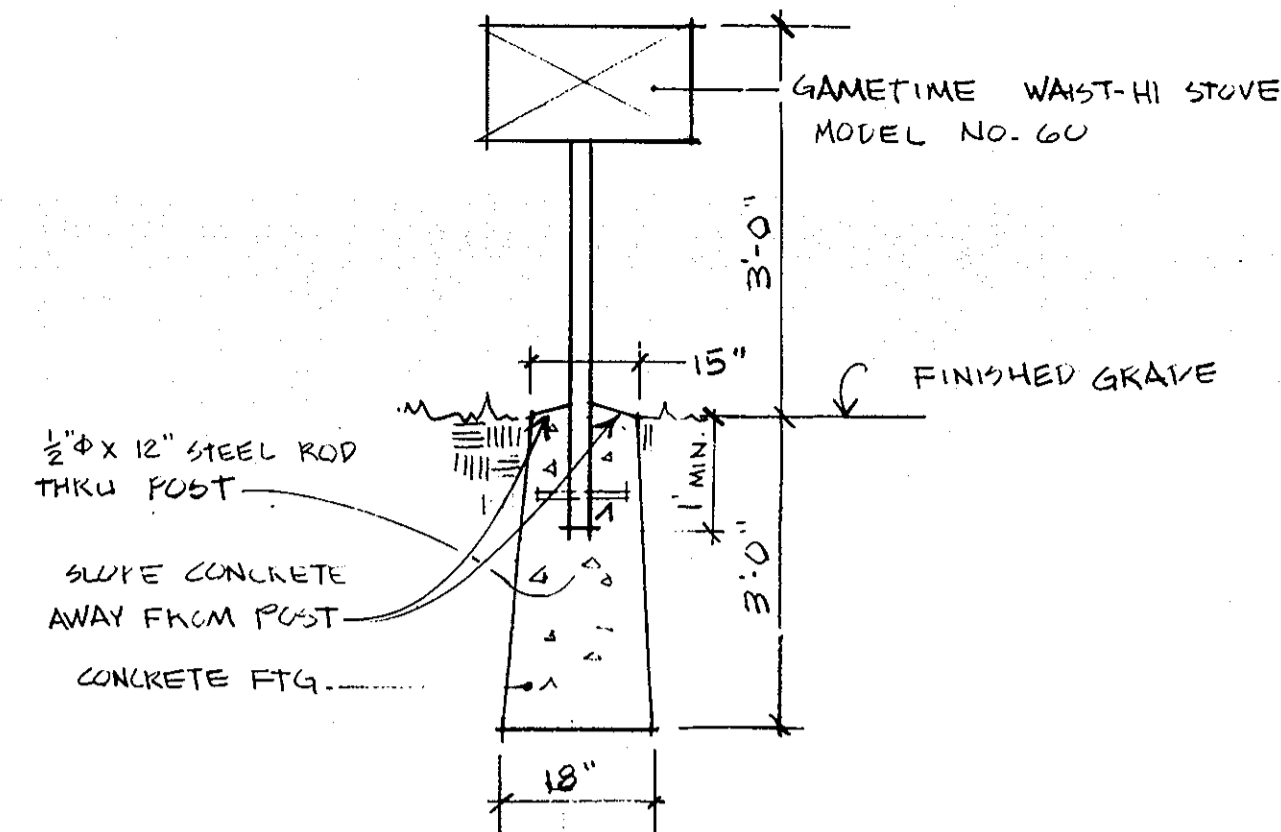
J. CHRISTOPHER BATTEN, INC.
Land Planning & Design Consultant
8 North Church Street
Westminster, Maryland 21157
301-876-3383

SHEET
S-19
SDP 37 of 38
of 20
SDP 20 of 21
SDP 90-18

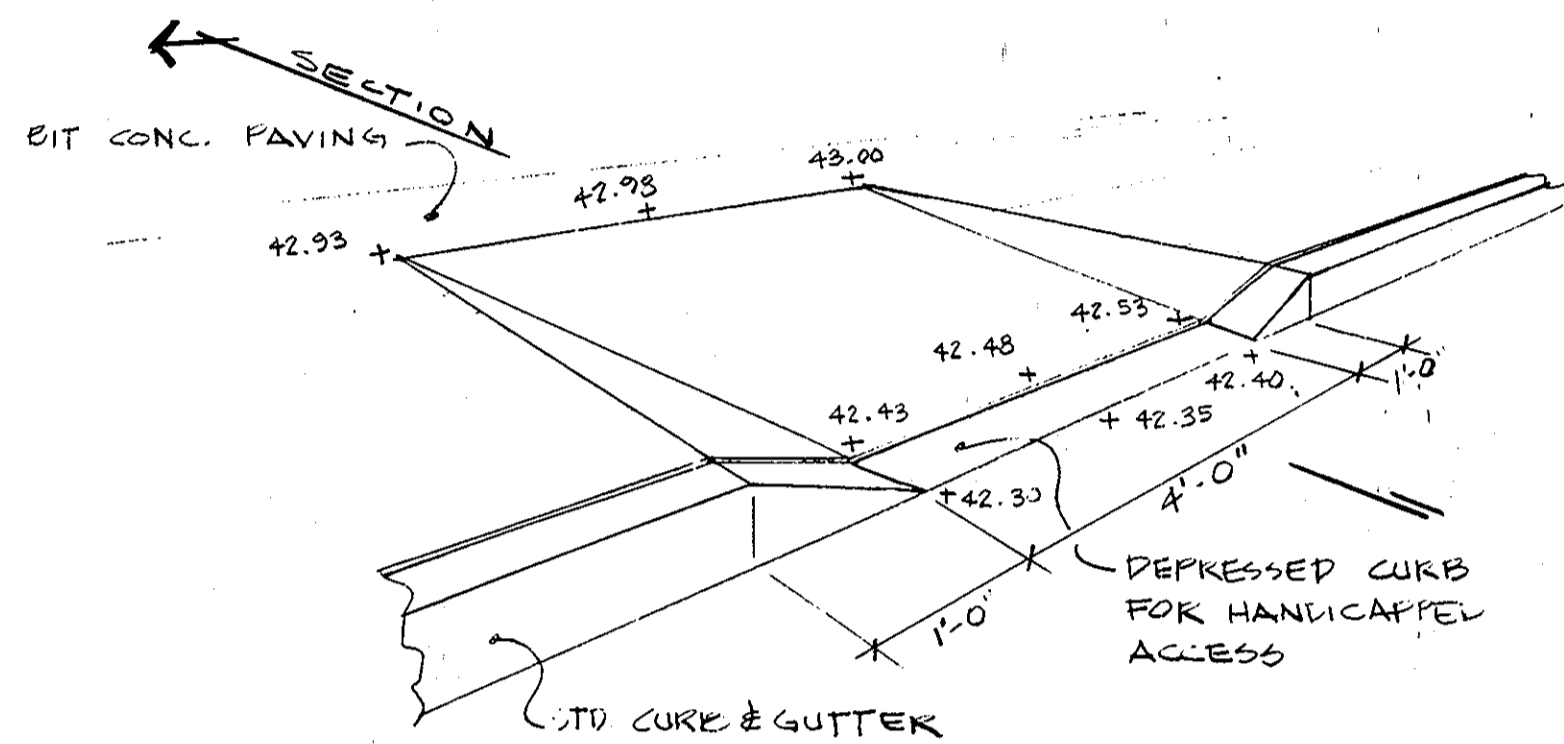
880



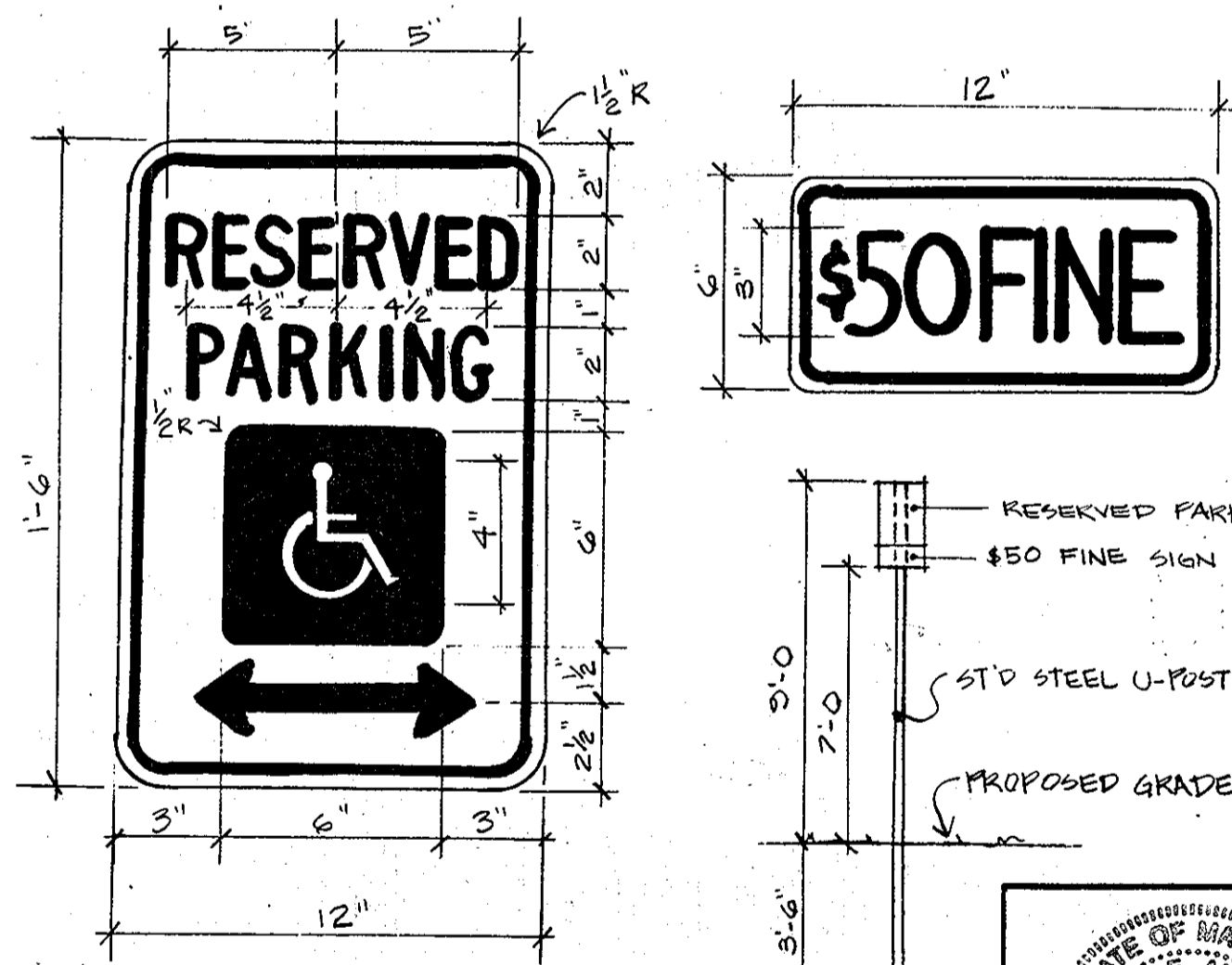
TRAFFIC SIGNS A
1/2" = 1'



BARBEQUE GRILL not to scale D



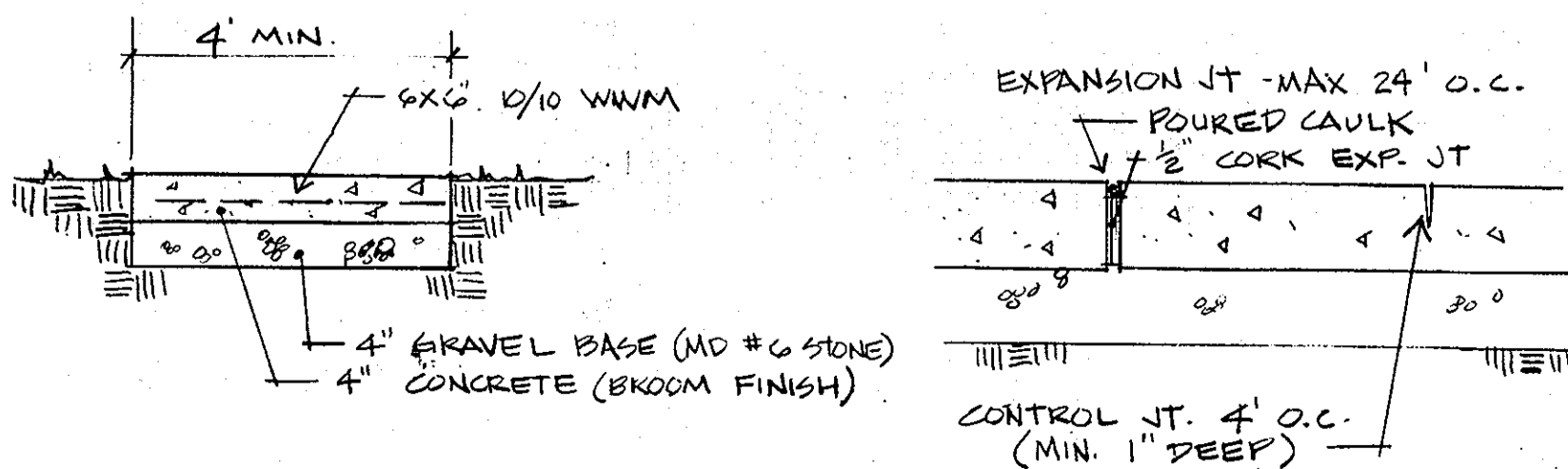
HANDICAPPED RAMP not to scale E



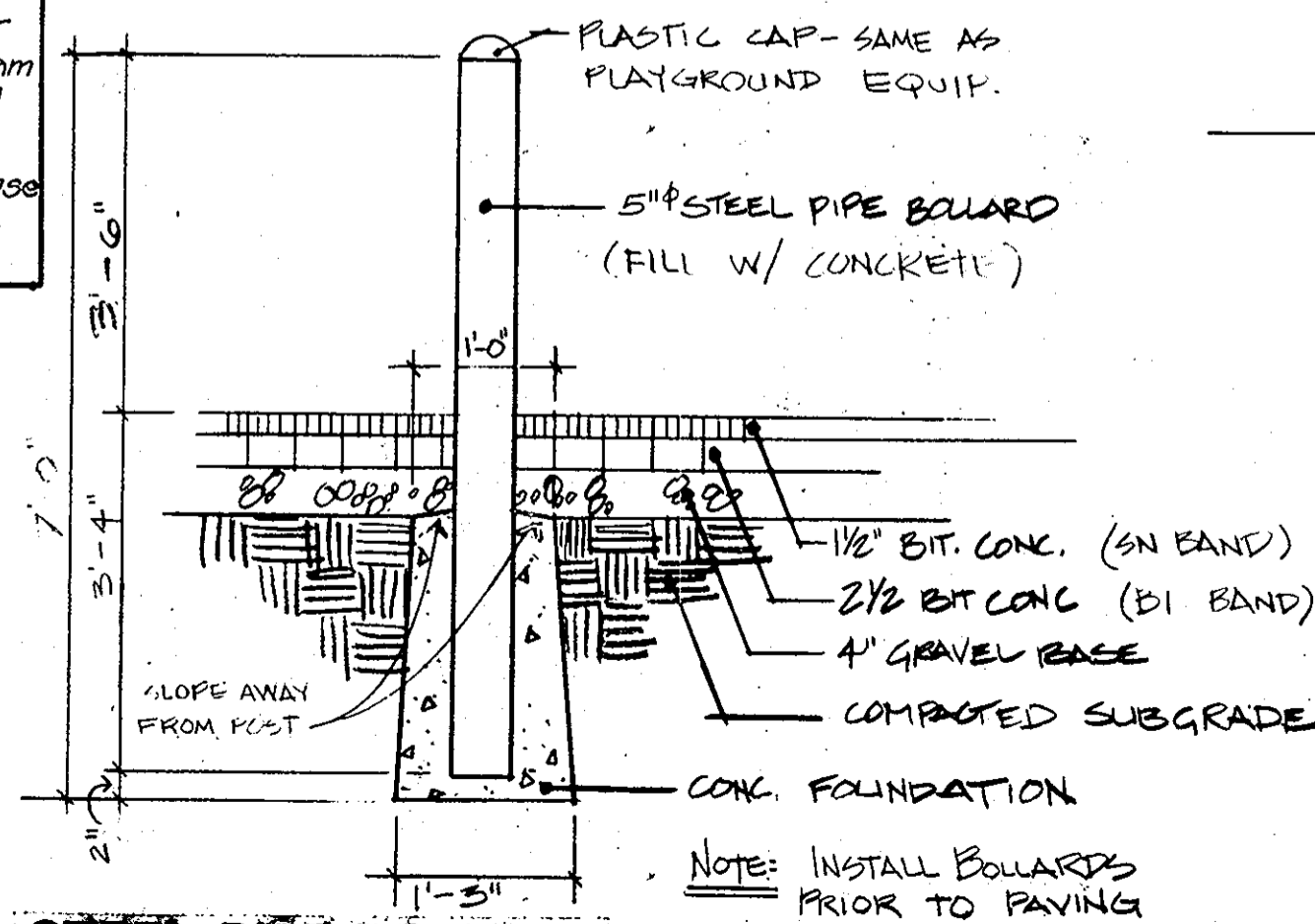
COLORS: LETTERS & BORDER & ARROW - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
WHITE BACKGROUND

NOTE: LOCATE SIGN IN FRONT OF EACH H/C PARKING SPACE - 4' FROM EDGE OF PAVING

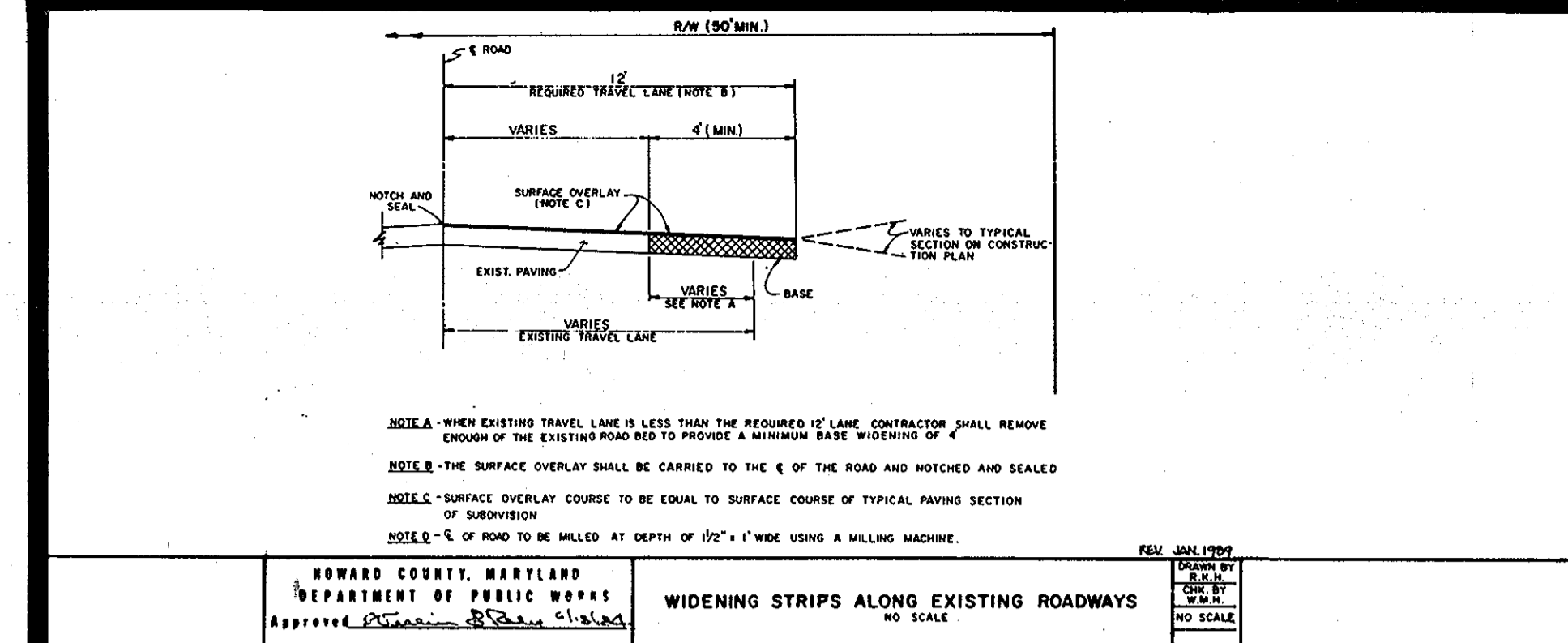
HANDICAPPED PARKING SIGN B
nts



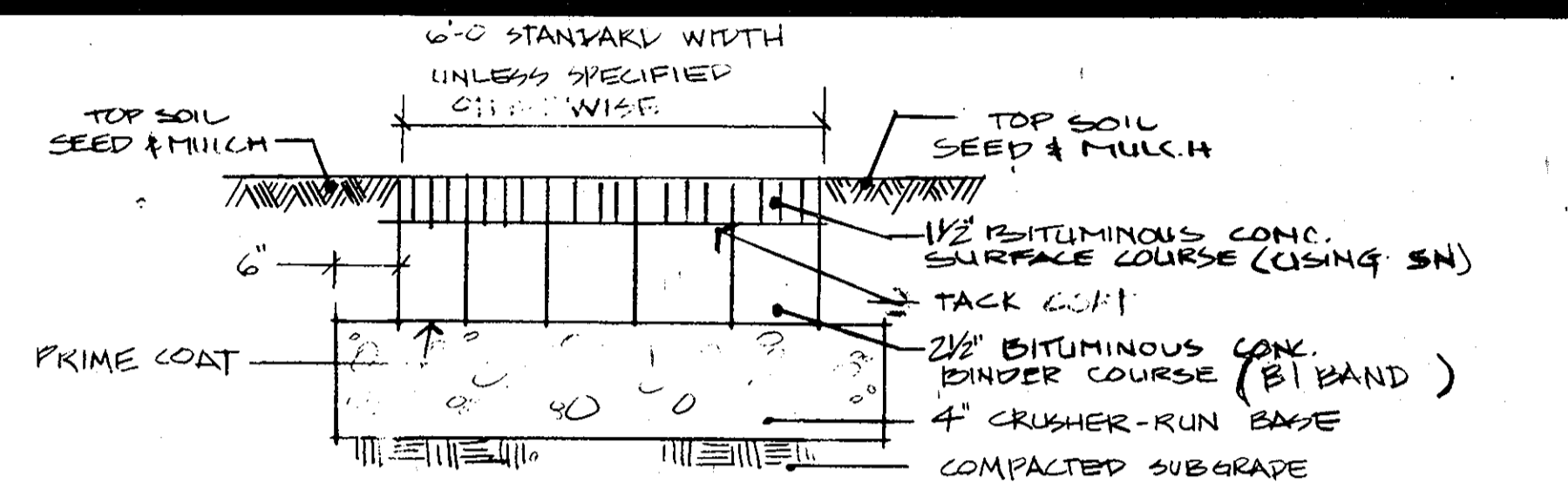
CONCRETE SIDEWALK C
nts



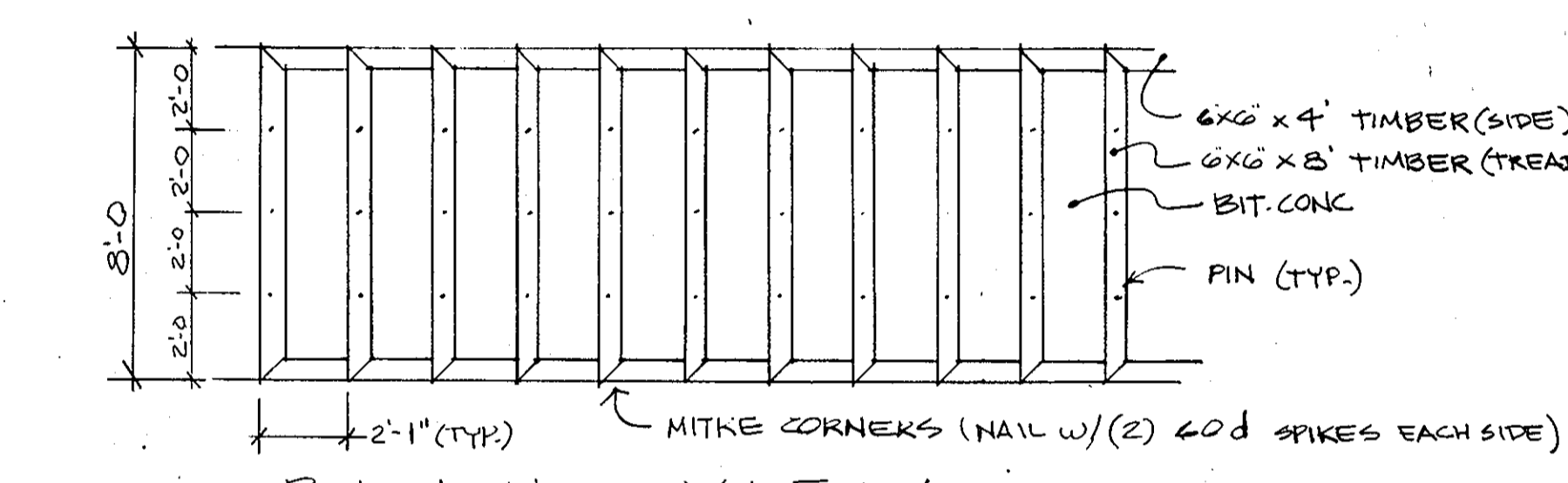
STEEL PIPE BOLLARD F
nts



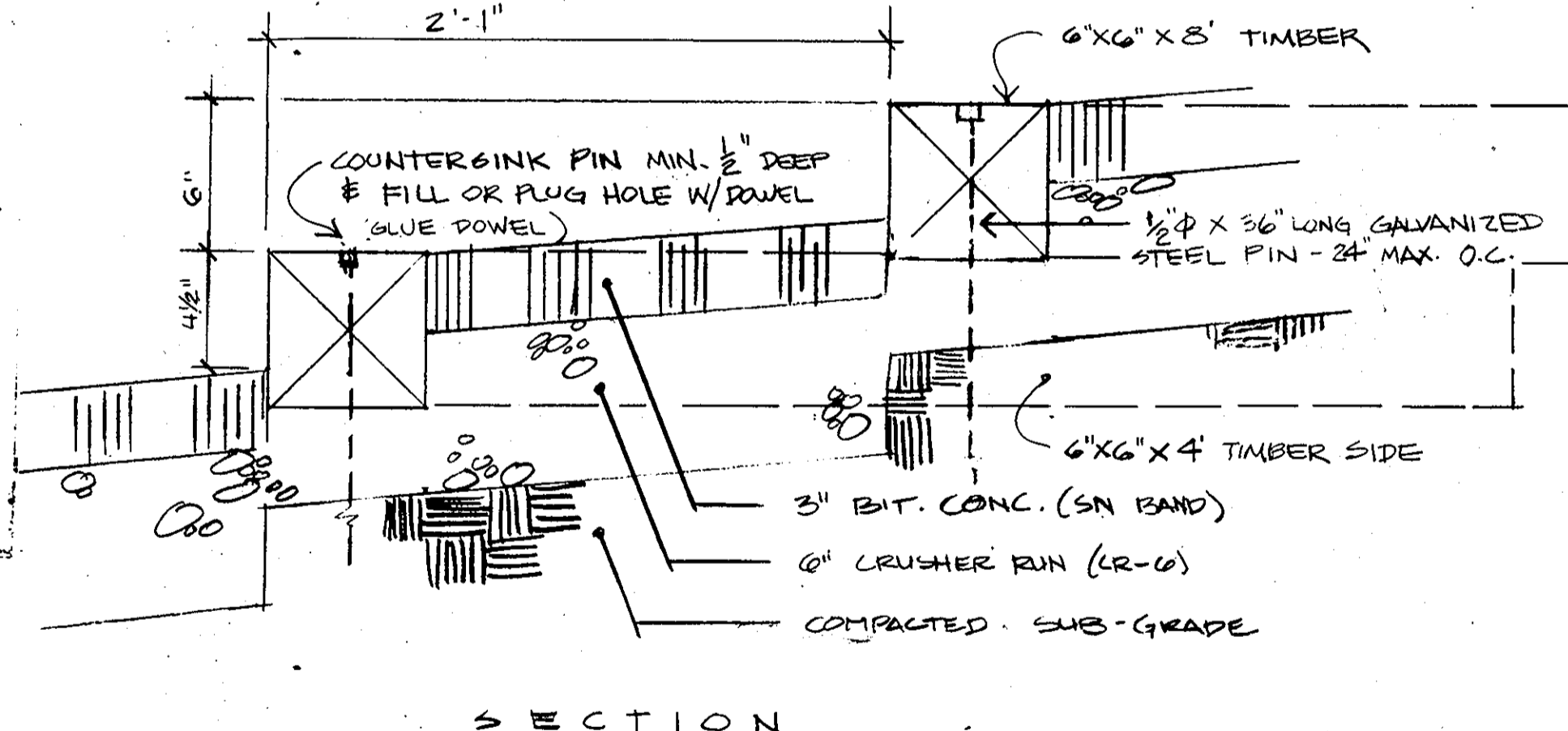
WIDENING STRIPS ALONG EXISTING ROADWAYS D-2 M
Howard County Std. Detail #R-10.01 Not To Scale



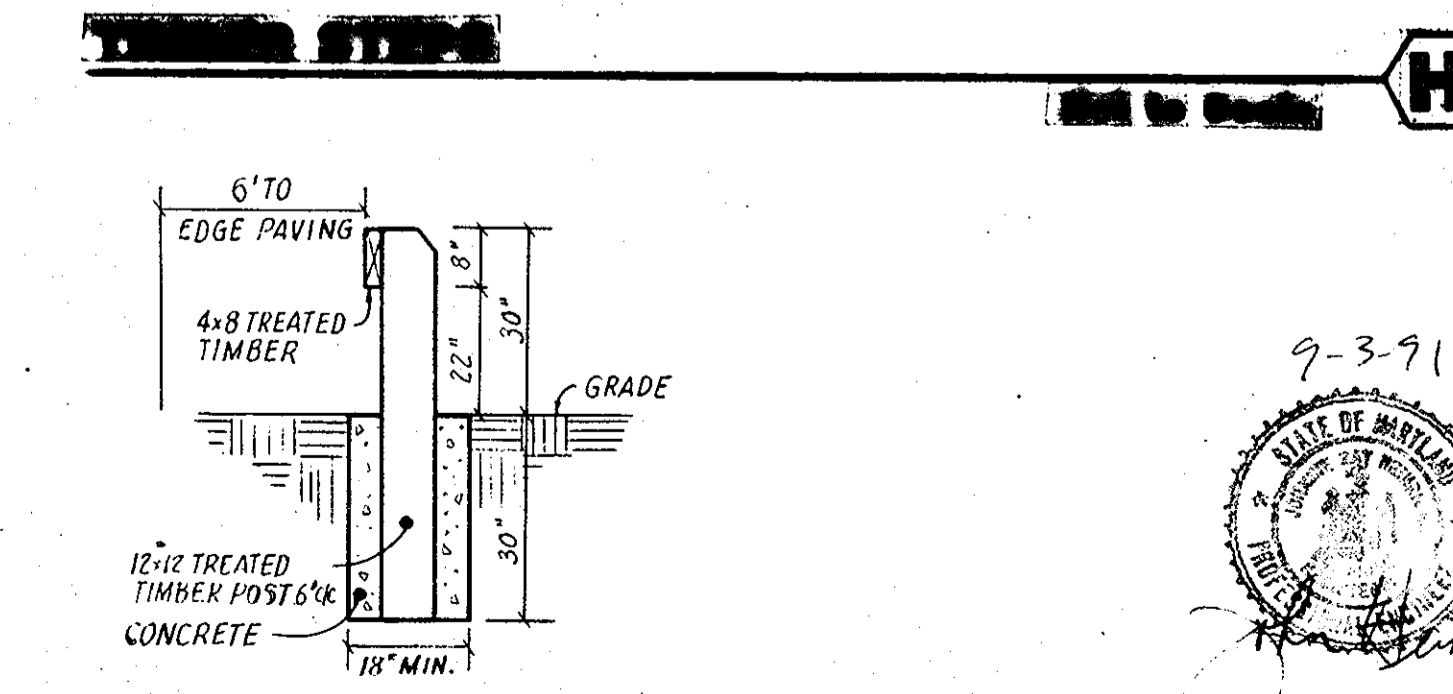
BITUMINOUS CONCRETE PATHWAY G
Not to Scale



TIMBER GUARD RAIL H
Not to Scale



TIMBER GUARD RAIL I
nts



TIMBER GUARD RAIL I
nts

SITE DETAILS

SDP #90-18
ALPHA RIDGE PARK
REVIEWED NO FACILITIES REQUIRED
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd, Health Officer, 1/24/92
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
James H. Batten, Director, 1/27/92
Stewart Holmatt, Chief, 1/27/92

APPROVED: FOR PRIVATE WATER AND NO SEWERAGE, FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James G. Stovani, Director, 1/24/92
B. Ray, Chief, Bureau of Engineering, 1-24-92

APPROVAL STAMP

Revised Sheet Numbers
5-29-2012

SITE DATA
OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
CENSUS TRACT 6030
WATER: SEWER: NONE

JANUARY 24, 1992

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SHEET
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of 20
SDP-90-18