

# STORM WATER DRAIN No. 185

to serve

## THE FAIRMONT - PHASE I

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

Project Number

**468-83403**

O.C.A. Number

**751312**

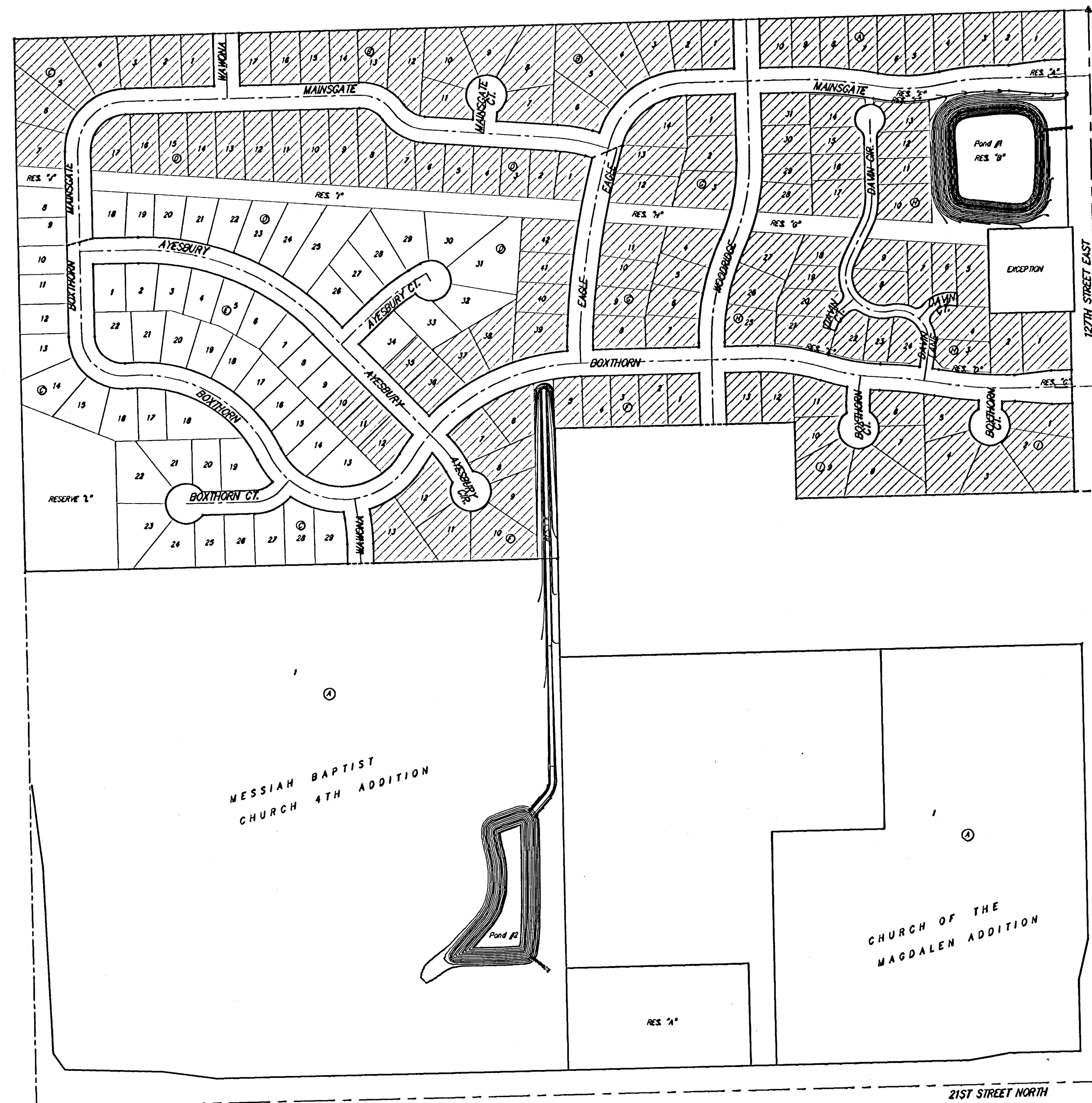
### GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:  

Kansas One-Call	687-2470
-----------------	----------

The Contractor must notify the following in case of an emergency:

Cox Communications	262-4270
Kansas Gas Service	1-888-482-4950
Westor Energy	383-8600
Aquila Energy	942-7600
Southwestern Bell Telephone Company	1-800-344-7233
City of Wichita Water Dept.	268-4908
City of Wichita Sewer Maintenance	268-4071
City of Wichita Traffic Engineering	269-4446
- Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- All areas disturbed by construction shall be seeded as indicated on the Mass Grading Plan.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state law.



Scale: 1" = 150'

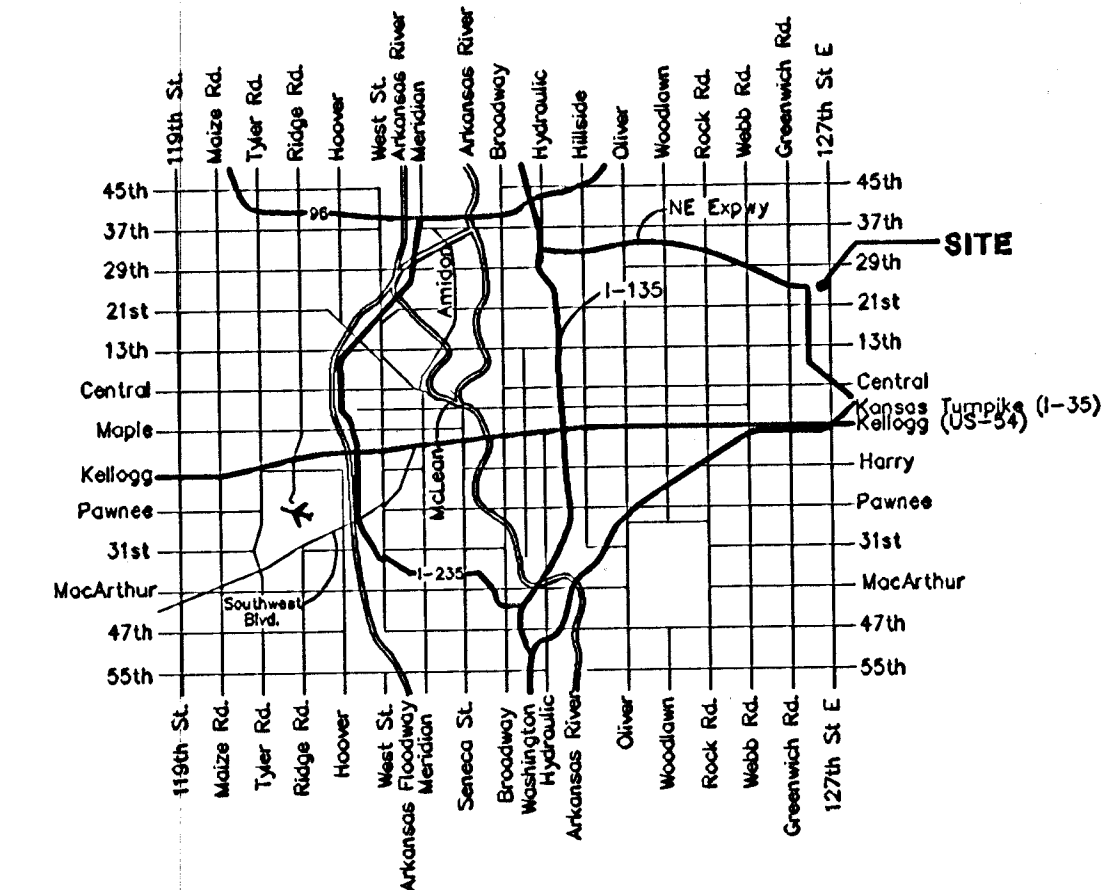
BOOKED  
1-15-03  
C-MES-03  
C-239

### Sheet Index

Title Sheet	1
Mass Grading Plan	2
Pond Plan (1)	3
Pond Plan (2)	4
Ditch Plan	5
Soil Erosion BMPs	6
Pond Cross Sections (1)	7-8
Pond Cross Sections (2)	9-11
Copy of Plat	12

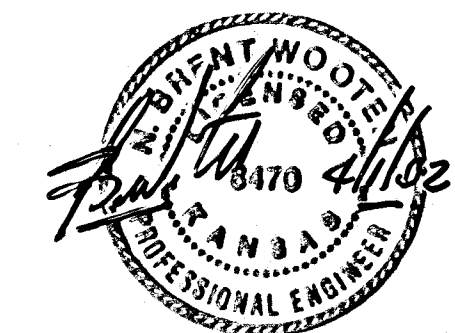
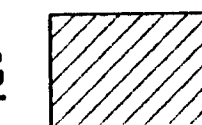
### Benchmarks

- BM #1: "□" Cut on T.C., 12' west of east end of N curb return on the north drive entrance of the Church of the Magdalen.  
Elev. = 190.48 (City Datum)
- BM #2: RR spike on the west face of PP on the east side of 127th Street East, adjacent to the south line of The Fairmont Addition.  
Elev. = 187.25 (City Datum)
- BM #3: RR spike on the east face of PP on the west side of 127th Street East, 37' N and 13' E of the NE corner of Lot 1, Block H, The Fairmont Addition.  
Elev. = 189.19 (City Datum)



Vicinity Map

Benefit District



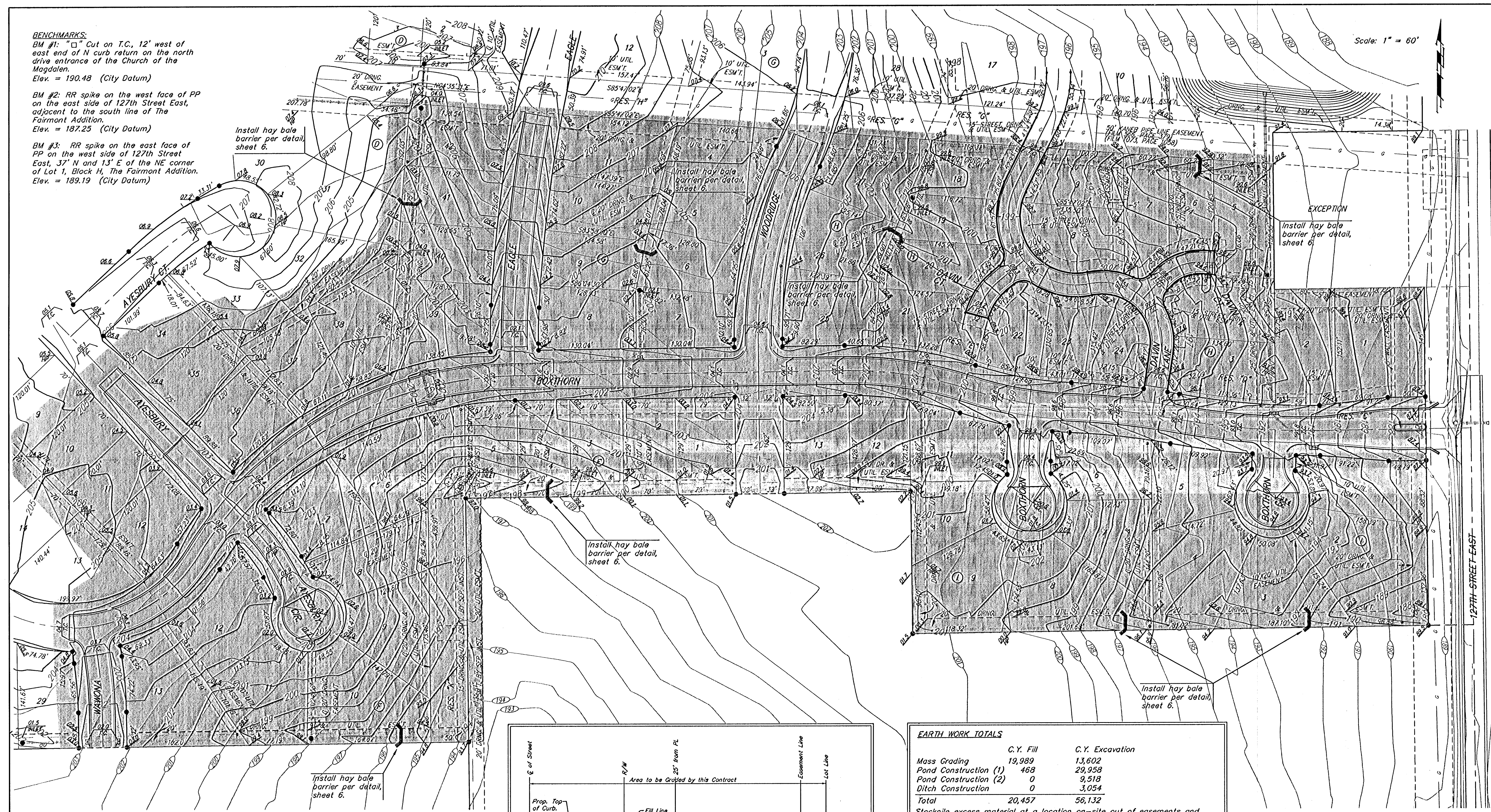
**BAUGHMAN COMPANY P.A.**  
ENGINEERING, SURVEYING, & PLANNING  
316-292-7271 • 315 ELLIS • WICHITA, KANSAS 67211



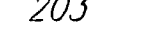
**BENCHMARKS:**  
 BM #1: "Cut on T.C., 12' west of east end of N curb return on the north drive entrance of the Church of the Magdalen.  
 Elev. = 190.48 (City Datum)

BM #2: RR spike on the west face of PP on the east side of 127th Street East, adjacent to the south line of The Fairmont Addition.  
 Elev. = 187.25 (City Datum)

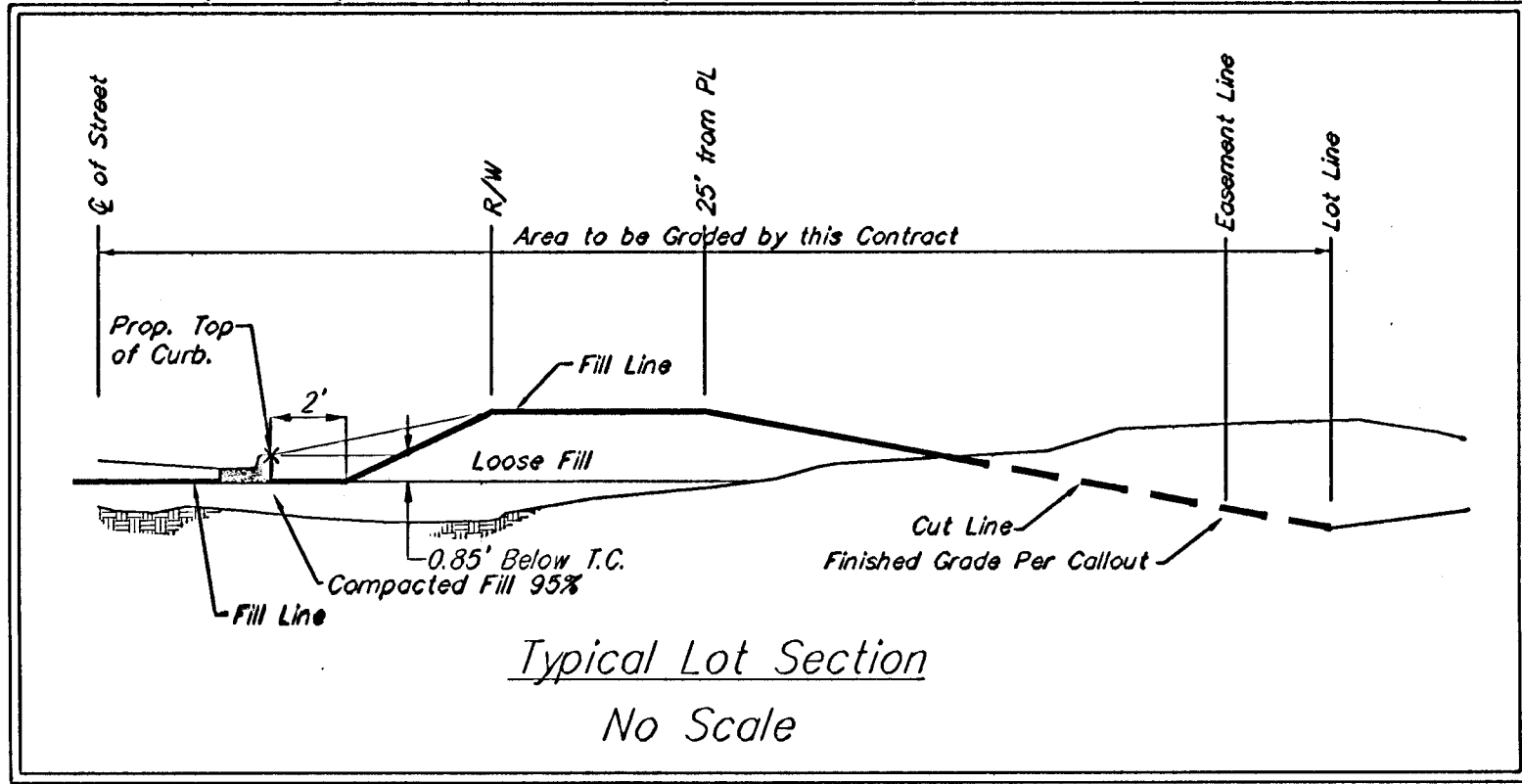
BM #3: RR spike on the east face of PP on the west side of 127th Street East, 37' N and 13' E of the NE corner of Lot 1, Block H, The Fairmont Addition.  
 Elev. = 189.19 (City Datum)

Scale: 1" = 60'



 Area to be graded  
 Existing Grade  
 Proposed Grade

All areas disturbed during construction not under proposed pavement are to be seeded, mulched and fertilized as follows:  
 Seed: - Rye Grass (PLS) - 3#/1000 Sq. Ft. and Kansas Premium Fescue Blend - 3#/1000 Sq. Ft.  
 Mulch: - 2 tons prairie hay/acre.  
 Fertilizer: - 16-26-16 ratio - 350 lbs./acre  
 Cost of seeding, fertilizing, and mulching shall be incidental to "Project Seeding".



**EARTH WORK TOTALS**

	C.Y. Fill	C.Y. Excavation
Mass Grading	19,989	13,602
Pond Construction (1)	468	29,958
Pond Construction (2)	0	9,518
Ditch Construction	0	3,054
<b>Total</b>	<b>20,457</b>	<b>56,132</b>

Stockpile excess material at a location on-site out of easements and right-of-way. Engineer shall determine location of stockpile. Earthwork quantities are for reference only. All cost associated with mass grading shall be incidental to lump sum bid item "Mass Grading".

- Contractor to strip top 3" of soil before mass grading and stockpile. Top soil stockpile to be redistributed over entire disturbed area excluding street right-of-way to achieve planned grade.
- Compaction of 95% shall be obtained in street R/W, and 90% compaction shall be obtained in all other fill areas.
- It shall be the Contractor's responsibility to protect the sanitary sewer and water distribution system during mass grading. Any damage done to these systems by Contractor or subcontractor shall be repaired at no additional cost to the project.

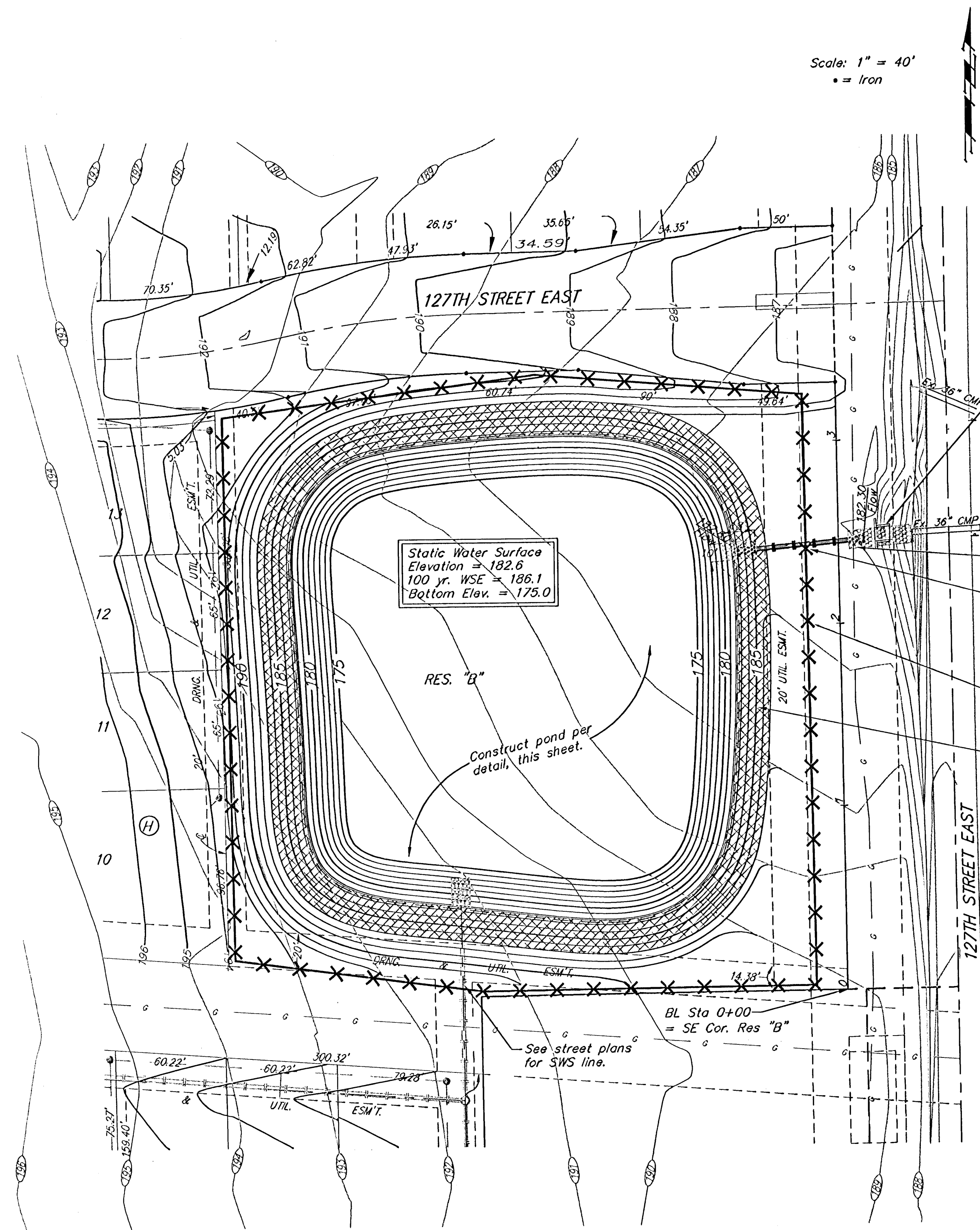
THE FAIRMONT  
**MASS GRADING PLAN**  
 WICHITA, KANSAS

**BAUGHMAN COMPANY P.A.**  
 ENGINEERING, SURVEYING, & PLANNING  
 318-282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER  
**488-83403**

DESIGN: NEW    DRAWN: TMS    APPROVED:    DATE: 4/1/02    SCALE: 1"=60'

SHEET **2** OF **12**



Scale: 1" = 40'  
 • = Iron

**NOTES:**

1. Pond bottom and sideslopes below static pool elevation shall be over-excavated 1' and a 1' clay liner shall be compacted to 95% std. density. The plasticity index (P.I.) shall be at least 30. The compaction and P.I. shall be verified during construction. P.I. determination and compaction testing shall be arranged by the contractor at the request of the inspector. Cost shall be incidental to "Site Clearing & Restoration".
  2. Any excess excavation shall be stored on site, out of easements and R/W. Contact Engineer for location. Area will be staked by Engineer. Additional area will be staked out if needed.
  3. All of Reserve "B" above the static water surface shall be seeded and mulched as follows: (Permanent Seeding)  
 SEED -- Kansas Premium Fescue Blend; 8#/1000 Sq. Ft.  
 FERTILIZER -- 16-26-16 Ratio at 350 Lbs./Ac.  
 MULCH -- 2 Tons Prairie Hay / Acre
- All other disturbed areas not in street R/W are to be seeded and mulched as follows: (Temporary seeding)  
 SEED -- Rye grass (PLS)--3#/1000 Sq. Ft. and Kansas Premium Fescue Blend; 3#/1000 Sq. Ft.  
 FERTILIZER -- 16-26-16 Ratio at 350 Lbs./Ac.  
 MULCH -- 2 Tons Prairie Hay / Acre
4. Install Erosion Control Mat from 1' below the water surface to 18' up the bank.
  5. Baughman Company will provide staking information at the time of construction.
  6. Contractor to strip top 3" of soil before mass grading and stockpile. Top soil stockpile to be redistributed over entire disturbed area excluding street right-of-way to achieve planned grade.
  7. Compaction of 95% shall be obtained in Street R/W. Compaction of 90% shall be obtained in all fill areas.

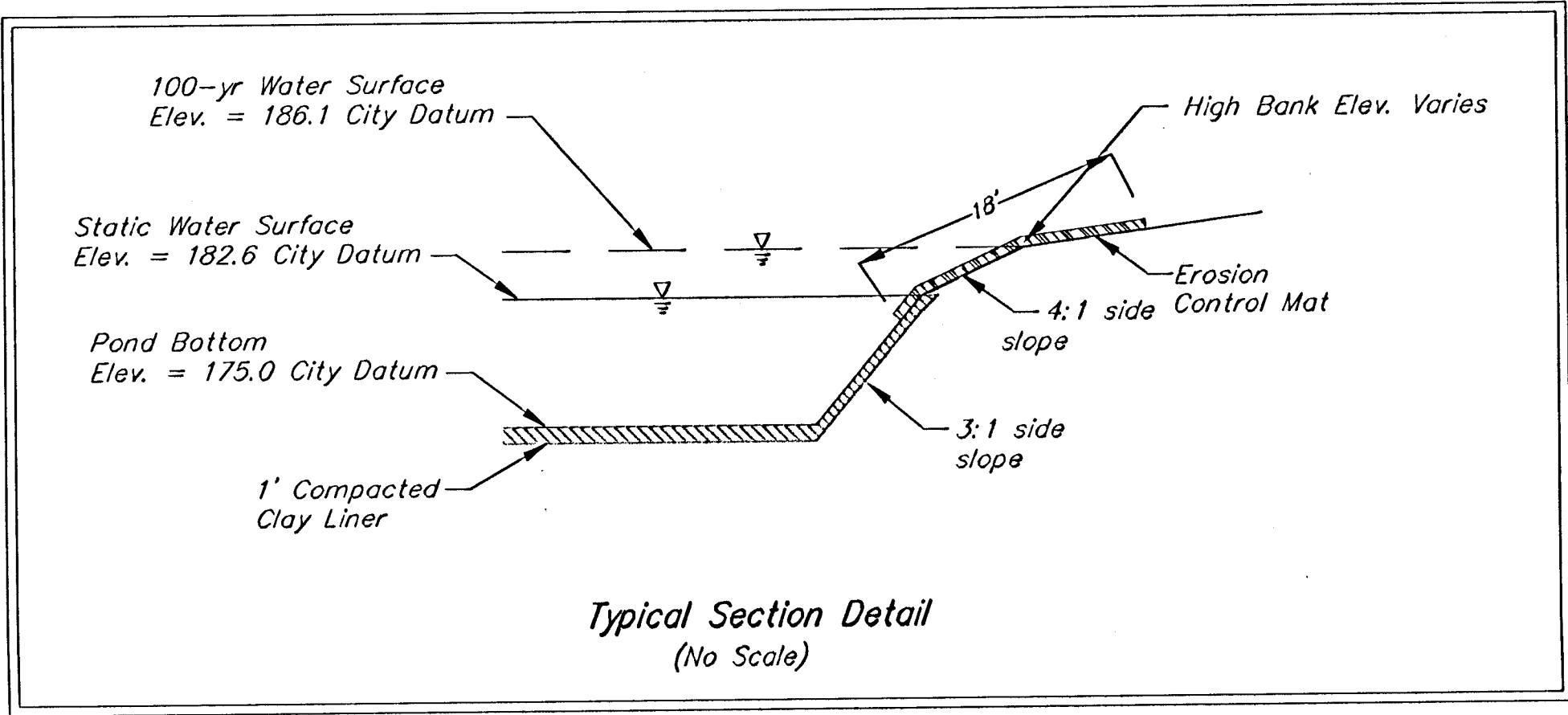
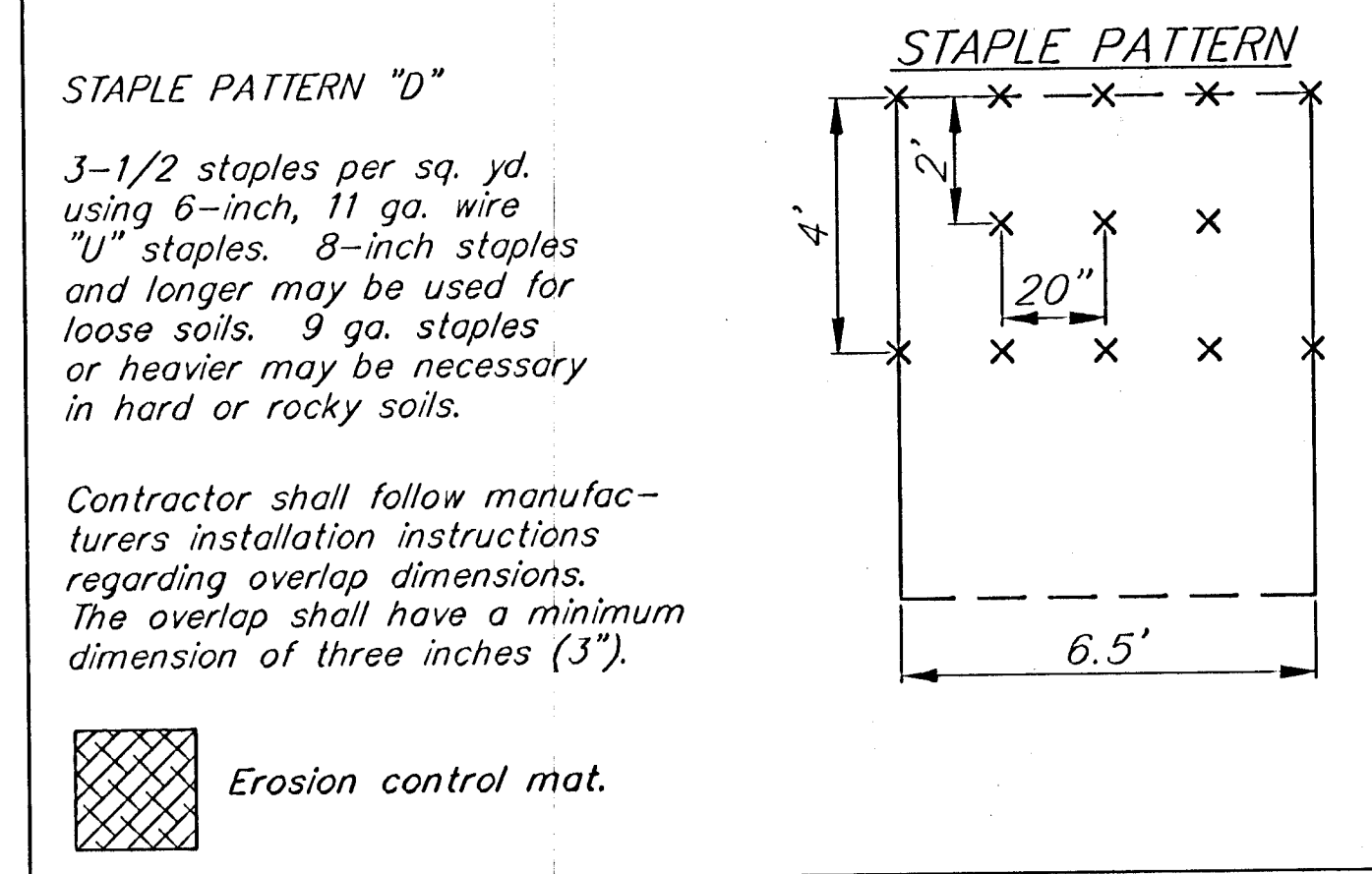
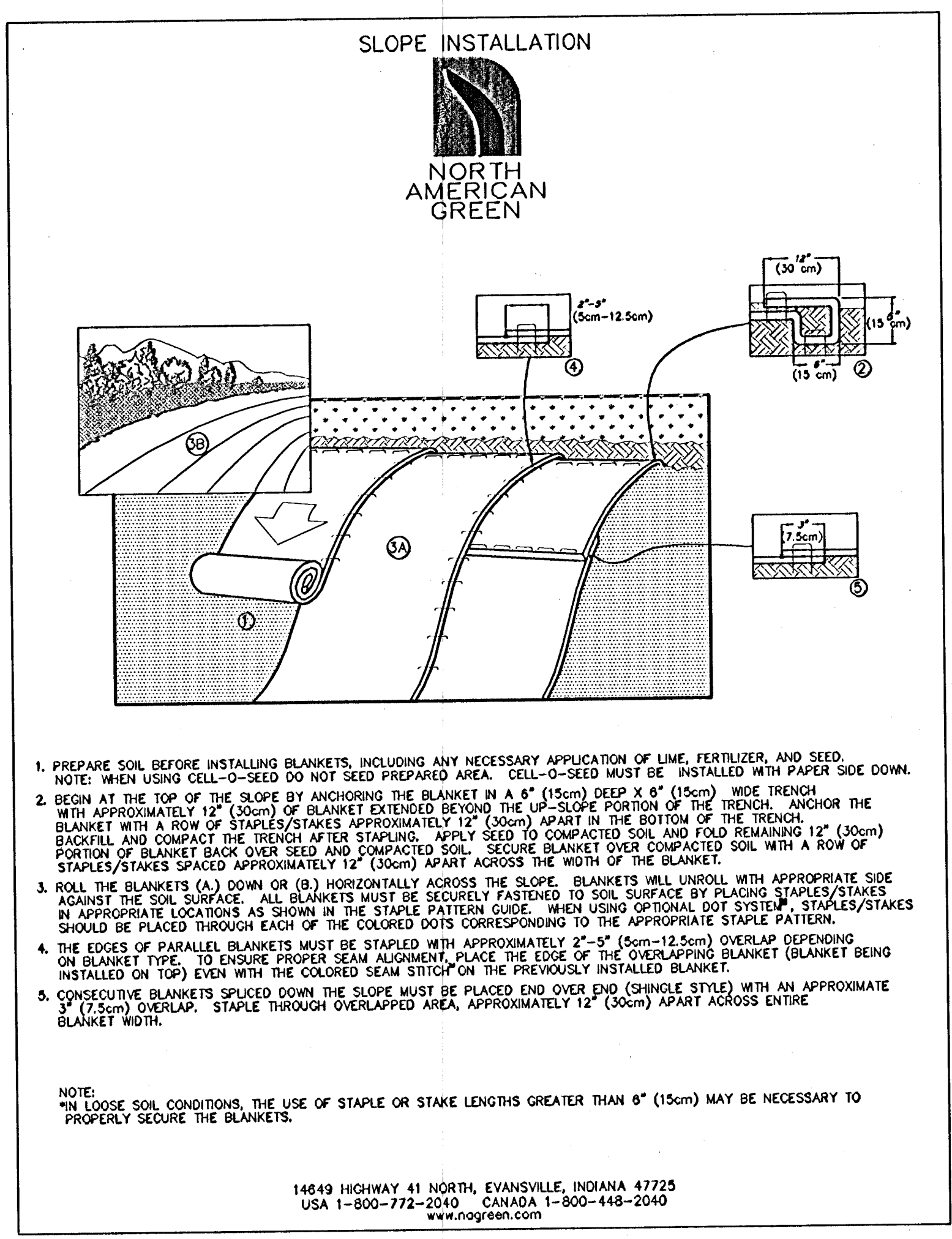
Contractor to remove existing concrete weir structure. Cost to be included in "Site Clearing & Restoration."

**CAUTION!**  
 Ex. 6" Conoco Gas Line Crossing. Contractor to contact Steve Brunton with Conoco (681-2081) at least one week prior to construction

Install 68.0 L.F. 24" RCP w/ end sections and 39 S.Y. light stone riprap, both sides.

Install 1,253 L.F. Silt Fence per detail, sheet 5.

Install 1,883 S.Y. North American Green Erosion Control Mat SC150, or approved equal. Erosion control mat shall be installed and anchored per details, this sheet. Note: This quantity does not include excess material necessary for overlap and anchoring.



EARTH WORK TOTALS		
	C.Y. Fill	C.Y. Cut
Mass Grading	19,989	13,602
Pond Construction (1)	468	29,958
Pond Construction (2)	0	9,518
Ditch Construction	0	3,054
<b>Total Earthwork</b>	<b>20,457</b>	<b>56,132</b>

Earthwork quantities do not include correction factors and are for reference only. All cost associated with mass grading shall be included in the bid item "Mass Grading". All cost associated with ditch construction shall be included in the bid item L.F. "Ditching". Pond construction shall be bid as C.Y. Excavation and C.Y. Compacted Fill.

Existing Grade  
 Proposed Grade  
 Silt Fence

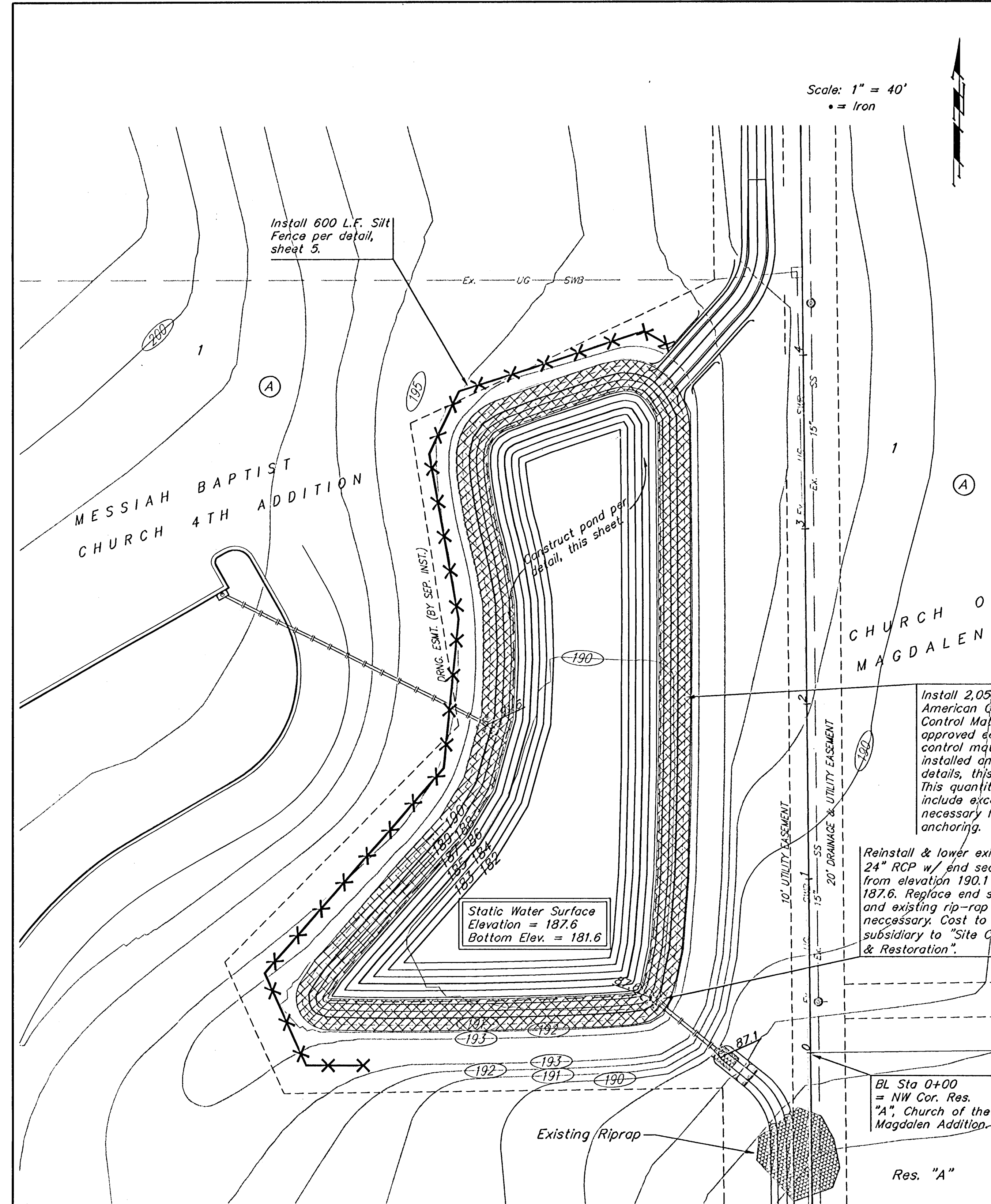
THE FAIRMONT  
**POND PLAN (1)**  
 WICHITA, KANSAS

**BAUGHMAN COMPANY P.A.**  
 ENGINEERING, SURVEYING, & PLANNING  
 318-282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER  
**488-83403**

DESIGN: NBW DRAWN: TMS APPROVED: DATE: SCALE: 1"=40'

SHEET **3** OF **12**

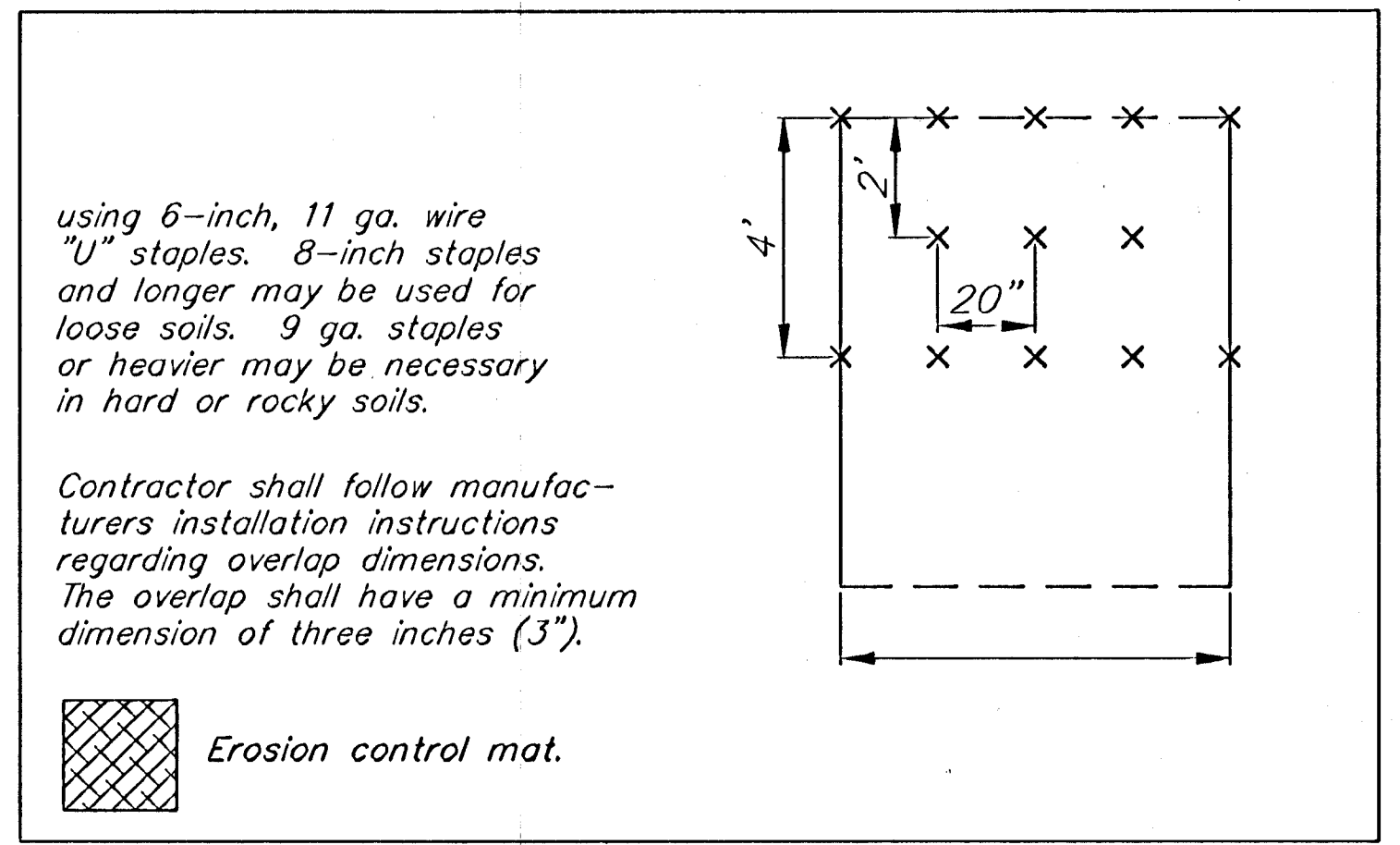
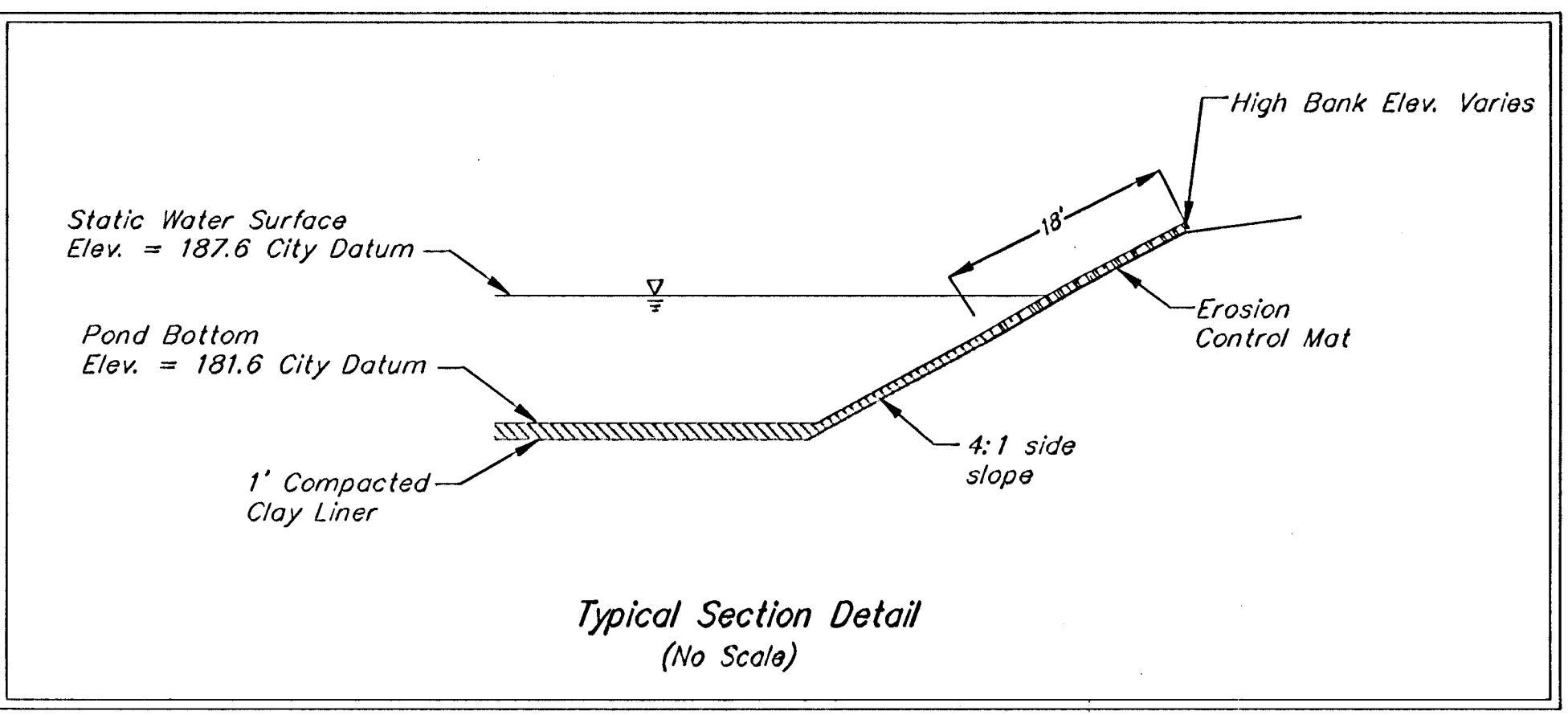
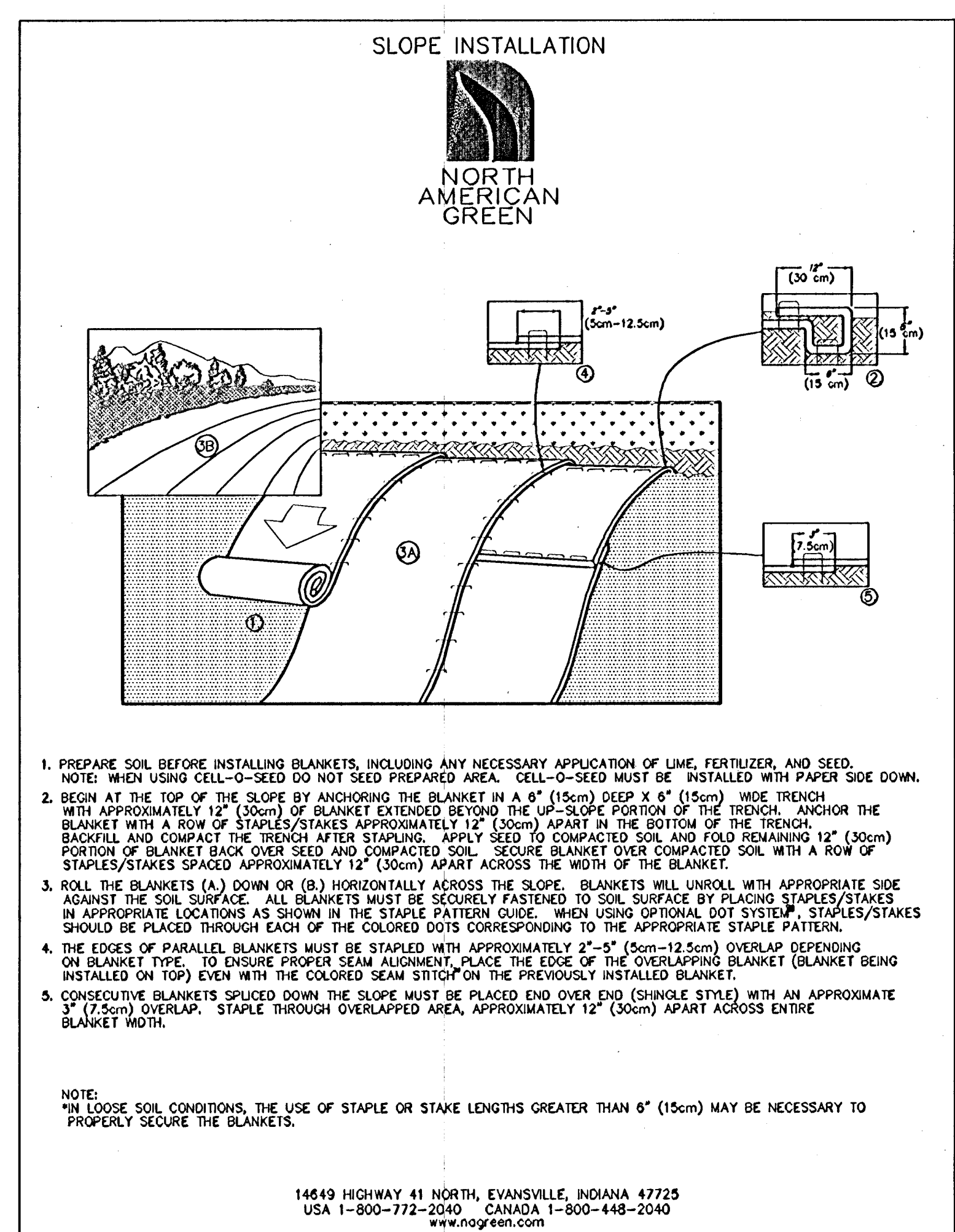


**EARTH WORK TOTALS**

	C.Y. Fill	C.Y. Cut
Mass Grading	19,989	13,602
Pond Construction (1)	468	29,958
Pond Construction (2)	0	9,518
Ditch Construction	0	3,054
Total Earthwork	20,457	56,132

Earthwork quantities do not include correction factors and are for reference only. All cost associated with mass grading shall be included in the bid item "Mass Grading". All cost associated with ditch construction shall be included in the bid item L.F. "Ditching". Pond construction shall be bid as C.Y. Excavation and C.Y. Compacted Fill.

- NOTES:**
- Pond bottom and sideslopes below static pool elevation shall be over-excavated 1' and a 1" clay liner shall be compacted to 95% std. density. The plasticity index (P.I.) shall be at least 30. The compaction and P.I. shall be verified during construction. P.I. determination and compaction testing shall be arranged by the contractor at the request of the inspector. Cost shall be incidental to "Site Clearing & Restoration".
  - Any excess excavation shall be stored on site, out of easements and R/W. Contact Engineer for location. Area will be staked by Engineer. Additional area will be staked out if needed.
  - All of pond area above the static water surface shall be seeded and mulched as follows: (Permanent Seeding)  
SEED -- Kansas Premium Fescue Blend; 8#/1000 Sq. Ft.  
FERTILIZER -- 16-26-16 Ratio at 350 Lbs./Ac.  
MULCH -- 2 Tons Prairie Hay / Acre
- All other disturbed areas not in street R/W are to be seeded and mulched as follows: (Temporary seeding)  
SEED -- Rye grass (PLS)--3#/1000 Sq. Ft. and Kansas Premium Fescue Blend; 3#/1000 Sq. Ft.  
FERTILIZER -- 16-26-16 Ratio at 350 Lbs./Ac.  
MULCH -- 2 Tons Prairie Hay / Acre
- Install Erosion Control Mat from 1' below the water surface to 18' up the bank.
  - Baughman Company will provide staking information at the time of construction.
  - Contractor to strip top 3" of soil before mass grading and stockpile. Top soil stockpile to be redistributed over entire disturbed area excluding street right-of-way to achieve planned grade.
  - Compaction of 95% shall be obtained in Street R/W. Compaction of 90% shall be obtained in all fill areas.



THE FAIRMONT  
**POND PLAN (2)**  
WICHITA, KANSAS

**BAUGHMAN COMPANY P.A.**  
ENGINEERING, SURVEYING, & PLANNING

318-282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER  
**488-83403**

DESIGN NEW DRAWN TMS APPROVED DATE SCALE 1"=40' SHEET **4** OF **12**

**BENCHMARKS:**

BM #1: "□" Cut on T.C., 12' west of east end of N curb return on the north drive entrance of the Church of the Magdalen.  
Elev. = 190.48 (City Datum)

BM #2: RR spike on the west face of PP on the east side of 127th Street East, adjacent to the south line of The Fairmont Addition.  
Elev. = 187.25 (City Datum)

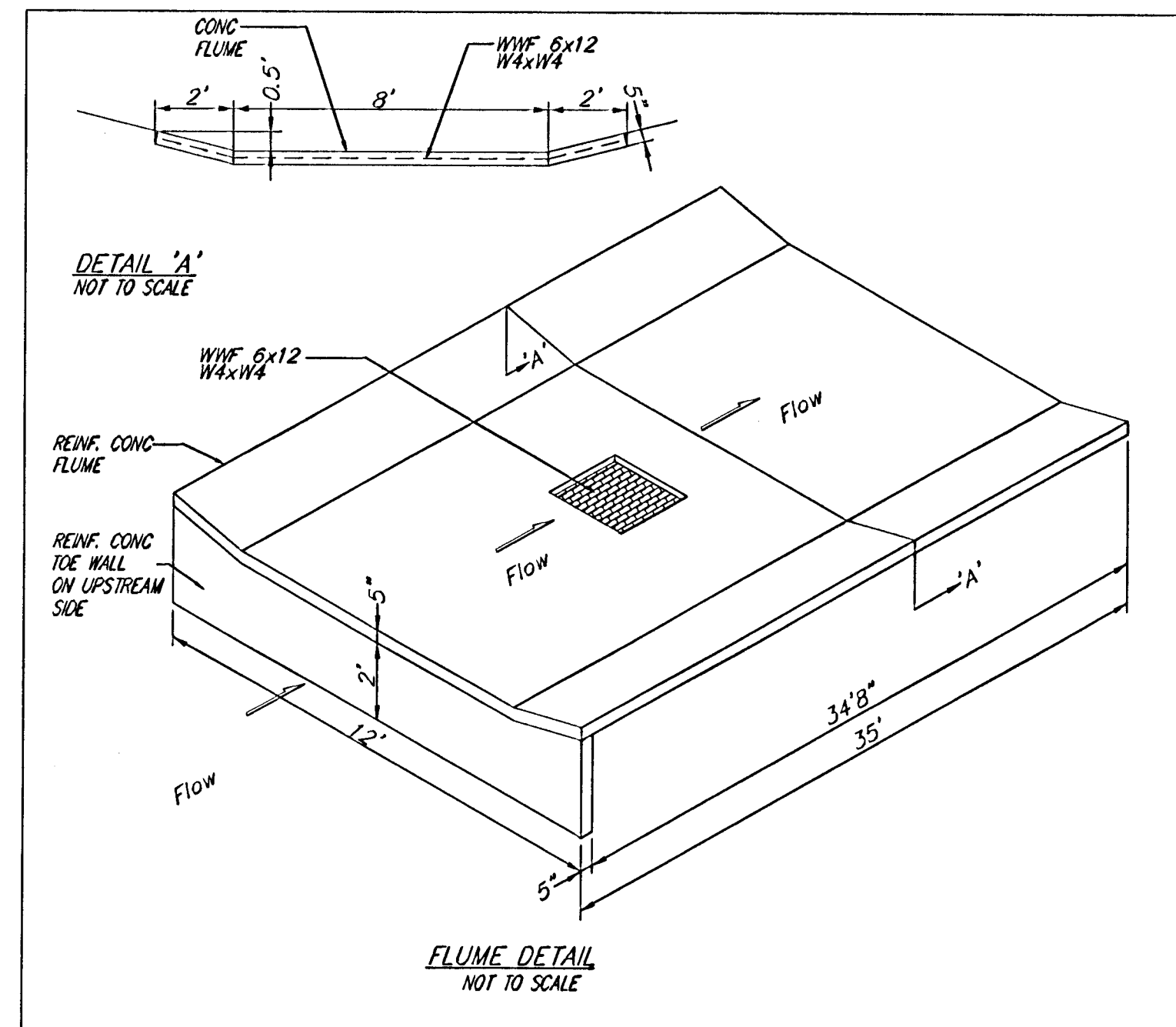
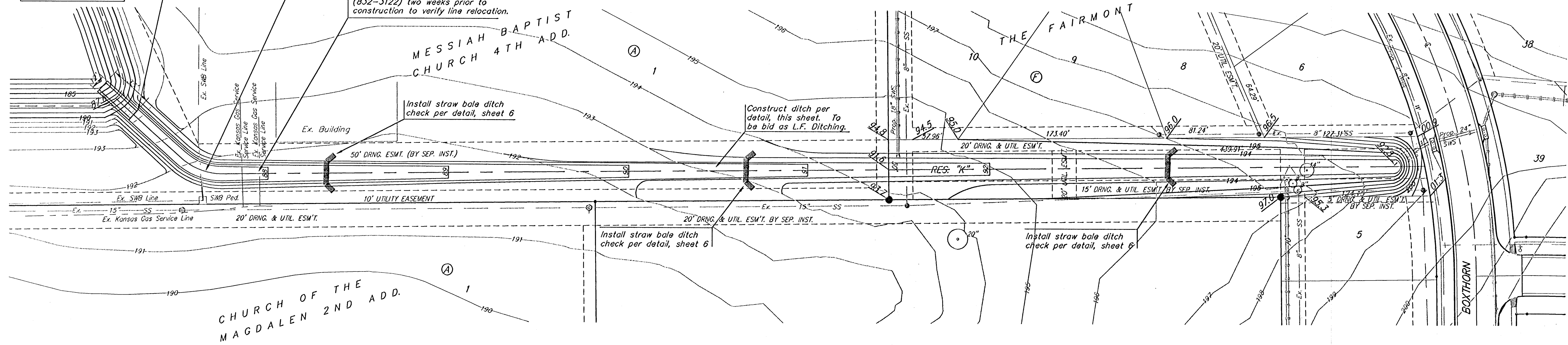
BM #3: RR spike on the east face of PP on the west side of 127th Street East, 37' N and 13' E of the NE corner of Lot 1, Block H, The Fairmont Addition.  
Elev. = 189.19 (City Datum)

Static Water Surface  
Elevation = 187.6  
Bottom Elev. = 181.6

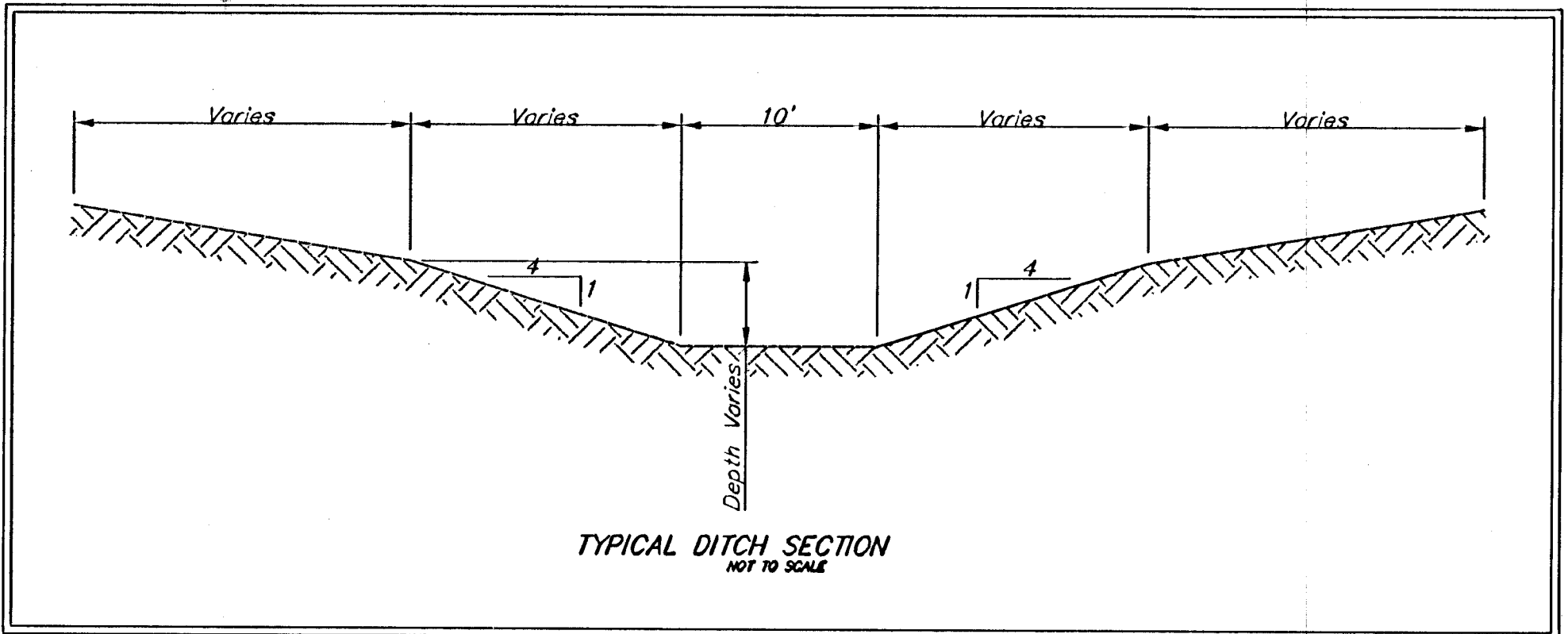
Construct concrete flume, see detail, this sheet.

CAUTION! SWB Crossing. SWB Line to be lowered prior to construction. Contractor to contact Bob Alley, SWB (288-2245) two weeks prior to construction to verify line relocation.

CAUTION! Kansas Gas Service Crossing. Kansas Gas Service Lines to be lowered prior to construction. Contractor to contact Jim Stoltz, Kansas Gas Service (832-3122) two weeks prior to construction to verify line relocation.



All areas disturbed during construction not under proposed pavement are to be seeded, mulched and fertilized as follows:  
Seeds: - Rye Grass (PLS) - 3#/1000 Sq. Ft. and Kansas Premium Fescue Blend - 3#/1000 Sq. Ft.  
Mulch: - 2 tons prairie hay/acre.  
Fertilizer: - 16-26-16 ratio - 350 lbs./acre  
Cost of seeding, fertilizing, and mulching shall be incidental to "Project Seeding".



THE FAIRMONT  
**DITCH PLAN**  
WICHITA, KANSAS

**BAUGHMAN COMPANY P.A.**  
ENGINEERING, SURVEYING, & PLANNING  
318-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

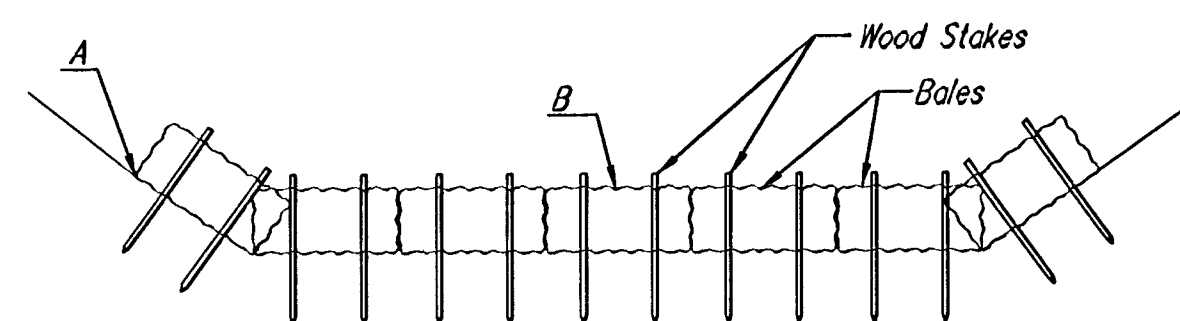
PROJECT NUMBER  
**488-63403**

DESIGN TMS DRAWN TMS APPROVED DATE SCALE Noted

SHEET **5** OF **12**

Fairmont Ditch 01-04-1998

NOTE: Point A must be higher than Point B so that water flows over the bales and not around them.



**STRAW BALE DITCH CHECKS**

**Material Specification:**

Bale ditch checks may be constructed of wheat straw, oat straw, prairie hay, or bromegrass hay that is free of weeds declared noxious by the Kansas State Board of Agriculture. The stakes used to anchor the bales should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long. Optional: The downstream scour apron should be constructed of a double-netted straw erosion-control blanket at least 6' wide. Optional: The metal landscape staples used to anchor the erosion-control blanket should be at least 8" long.

**Placement:**

Bale ditch checks should be placed perpendicular to the flowline of the ditch. The ditch check should extend far enough so that the ground level at the ends of the check is higher than the top of the lowest center bale. This prevents water from flowing around the check. Checks should not be placed in ditches where high flows are expected. Rock checks should be used instead. Bales should be placed in ditches with slopes of 6% or less. For slopes steeper than 6%, rock checks should be used. The following table provides check spacing for a given ditch grade:

Ditch grade (%)	Check Spacing (feet)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

**Proper installation method:**

Excavate a trench perpendicular to the ditch flowline that is 4" deep and a bale's width wide. Extend the trench in a straight line along the entire length of the proposed ditch check. Place the soil on the upstream side of the trench—it will be used later. Optional: On the downstream side of the trench, roll out a length of erosion-control blanket (scour apron) equal to the length of the trench. Place the upstream edge of the erosion-control blanket along the bottom upstream edge of the trench. The erosion control blanket should be anchored in the trench with one row of 8" landscape staples placed on 18" centers. The remainder of the erosion-control blanket (the portion that is not lying in the trench) will serve as the downstream scour apron. This section of the blanket should be anchored to the ground with 8" landscape staples placed around the perimeter of the blanket on 18" centers. The remainder of the blanket should be anchored using two evenly spaced rows of 8" landscape staples on 18" centers placed perpendicular to the flowline of the ditch. Place the bales in the trench, making sure that they are butted tightly. Two stakes should be driven through each bale along the centerline of the ditch check, approximately 6" to 8" in from the bale ends. Stakes should be driven at least 12" into the ground. Once all the bales have been installed and anchored, place the excavated soil against the upstream side of the check and compact it. The compacted soil should be no more than 3" to 4" deep and extend upstream no more than 24".

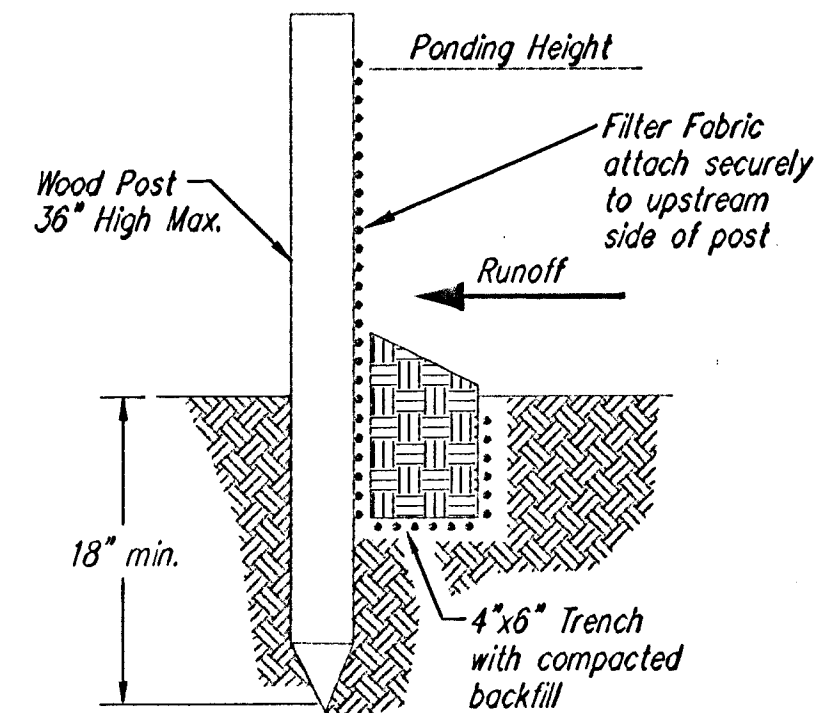
**List of common placement/installation mistakes to avoid:**

Do not place a bale ditch check directly in front of a culvert outlet. It will not stand up to the concentrated flow. Do not place bale ditch checks in ditches that will likely experience high flows. They will not stand up to concentrated flow. Follow prescribed ditch-check spacing guidelines. If spacing guidelines are exceeded, erosion will occur between the ditch checks. Do not allow water to flow around the ditch check. Make sure that the ditch check is long enough so that the ground level at the ends of the check is higher than the top of the lowest center bale. Do not place bale ditch checks in channels with shallow soils underlain by rock. If the check is not anchored sufficiently, it will wash out. Bale ditch checks must be dug into the ground. Bales at ground level do not work because they allow water to flow under the check.

**Inspection and Maintenance:**

Bale ditch checks should be inspected every 7 days and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

- Does water flow around the ditch check?
- Does water flow under the ditch check?
- Does water flow through spaces between abutting bales?
- Are any bales and/or scour aprons (optional) dislodged?
- Are bales decomposing due to age and/or water damage?
- Does sediment need to be removed from behind the ditch check?



**SILT FENCE BARRIERS**

**SILT FENCE BARRIERS**

**Material Specification:**

Silt fence fabric should conform to the AASHTO M288 96 silt fence specification. The posts used to support the silt fence fabric should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long. Silt fence fabric should be attached to the wooden posts with staples, wire, zip ties, or nails.

**Placement:**

A slope barrier should be used at the toe of a slope when a ditch does not exist. The slope barrier should be placed on nearly level ground 5' to 10' away from the toe of a slope. The barrier is placed away from the toe of the slope to provide adequate storage for settling out sediment. When practicable, silt fence slope barriers should be placed along contours to avoid a concentration of flow. Silt fence slope barriers can also be placed along right-of-way fence lines to keep sediment from crossing onto adjacent property. When placed in this manner, the slope barrier will not likely follow contours.

**Proper installation method:**

Excavate a trench the length of the planned slope barrier that is 6" deep by 4" wide. Make sure that the trench is excavated along a single contour. When practicable, slope barriers should be placed along contours to avoid a concentration of flow. Place the soil on the upslope side of the trench for later use. Roll out a continuous length of silt fence fabric on the downslope side of the trench. Place the edge of the fabric in the trench starting at the top upslope edge. Line all three sides of the trench with the fabric. Backfill over the fabric in the trench with the excavated soil and compact. After filling the trench, approximately 24" to 36" of silt-fence fabric should remain exposed. Lay the exposed silt fence upslope of the trench to clear an area for driving in the posts. Just downslope of the trench, drive posts into the ground to a depth of at least 18". Place posts no more than 4' apart. Attach the silt fence to the anchored post with staples, wire, zip ties, or nails.

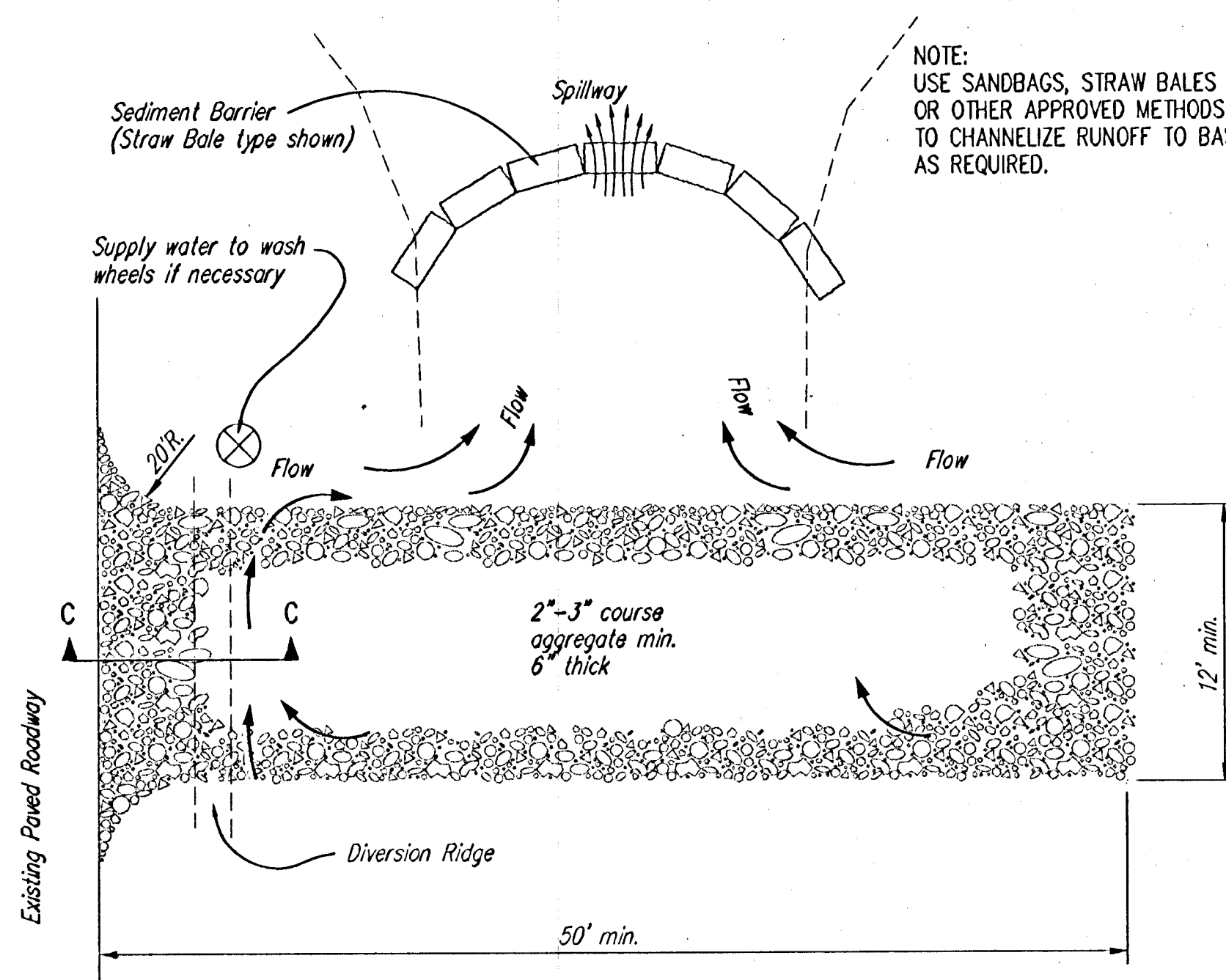
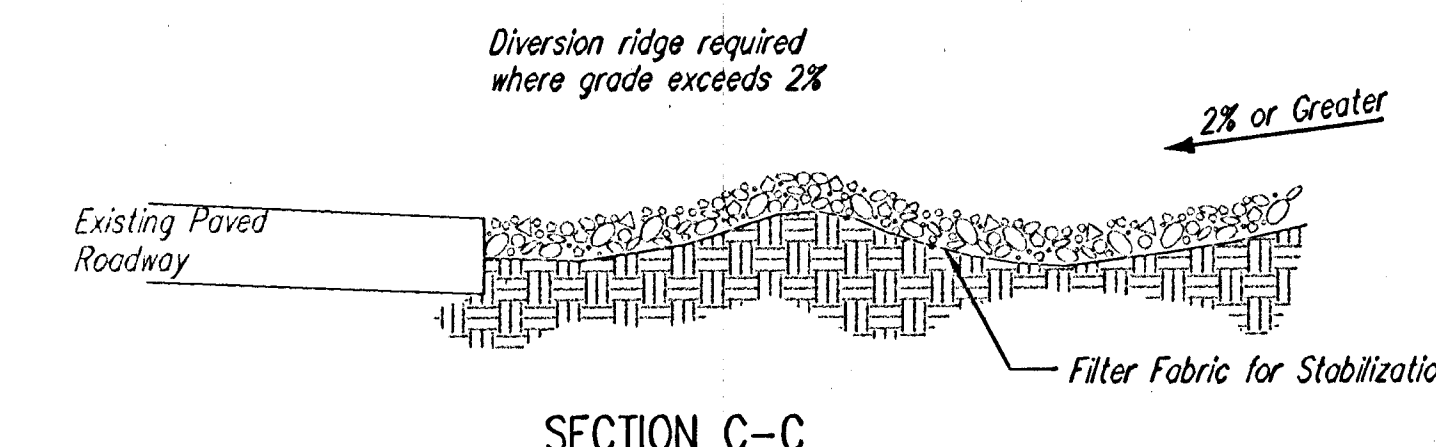
**List of common placement/installation mistakes to avoid:**

When practicable, do not place silt fence slope barriers across contours. Slope barriers should be placed along contours to avoid a concentration of flow. When the flow concentrates, it overtops the barrier and the silt fence slope barrier quickly deteriorates. Do not place silt-fence posts on the upslope side of the silt fence fabric. In this configuration, the force of the water is not restricted by the posts, but only by the staples (wire, zip ties, nails, etc.). The silt fence will rip and fail. Do not place silt fence slope barriers in areas with shallow soils underlain by rock. If the barrier is not sufficiently anchored, it will wash out. Silt fence slope barriers must be dug into the ground—silt fence at ground level does not work because water will flow underneath.

**Inspection and Maintenance:**

Silt fence slope barriers should be inspected every 7 days and within 24 hours of a rainfall of 1/2" or more. The following is a list of questions that should be addressed during each inspection:

- Are there any points along the slope barrier where water is concentrating?
- Does water flow under the slope barrier?
- Do the silt fences sag excessively?
- Has the silt fence torn or become detached from the posts?
- Does sediment need to be removed from behind the slope barrier?



**STABILIZED CONSTRUCTION ENTRANCE**

**NOTES:**

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

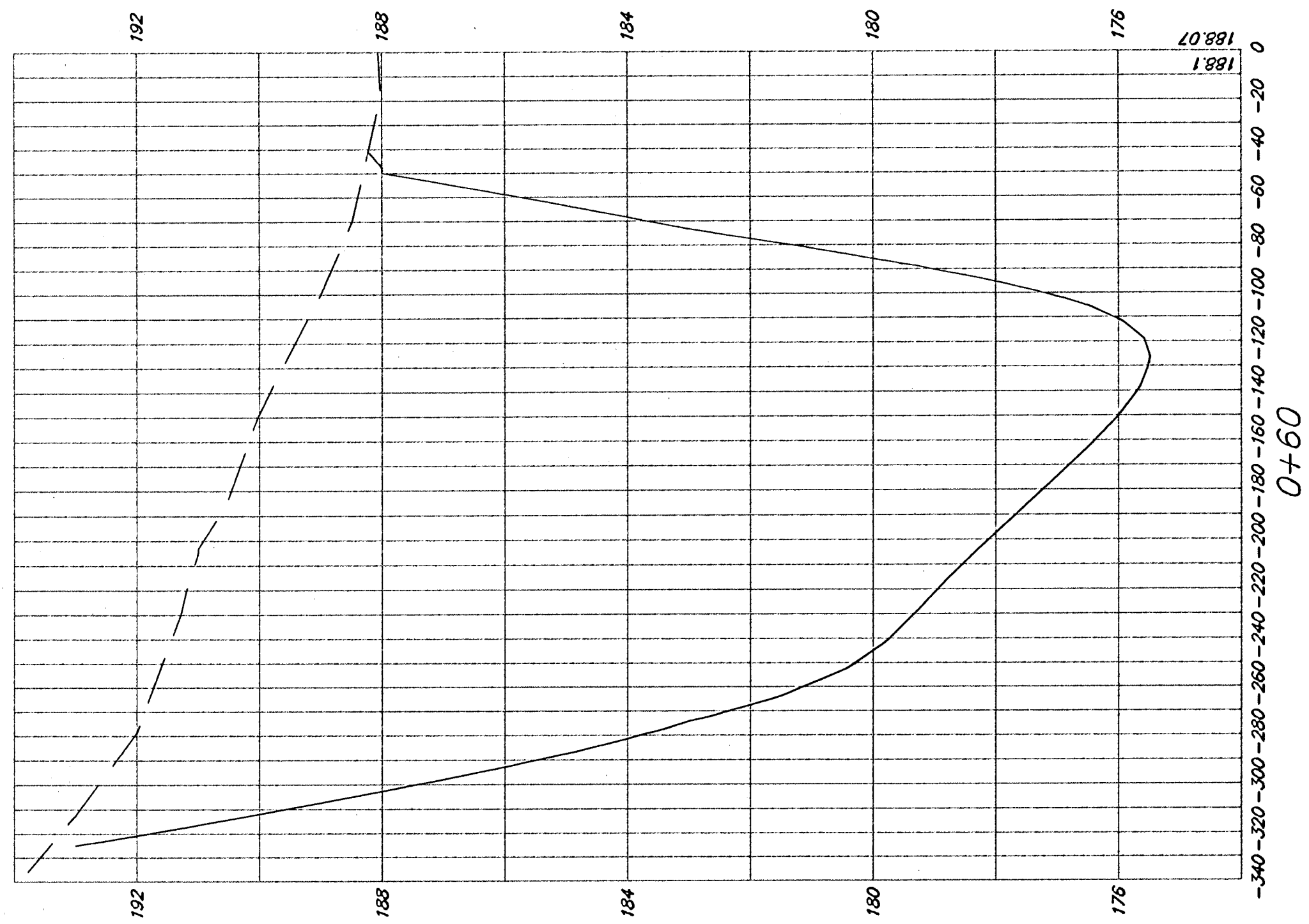
**\* FOR INFORMATION ONLY**

3,936 SY EROSION CONTROL MAT  
 11 EA. STRAW BALE DITCH CHECKS  
 1,853 LF SILT FENCE  
 1 EA. STABILIZED CONSTRUCTION ENTRANCE

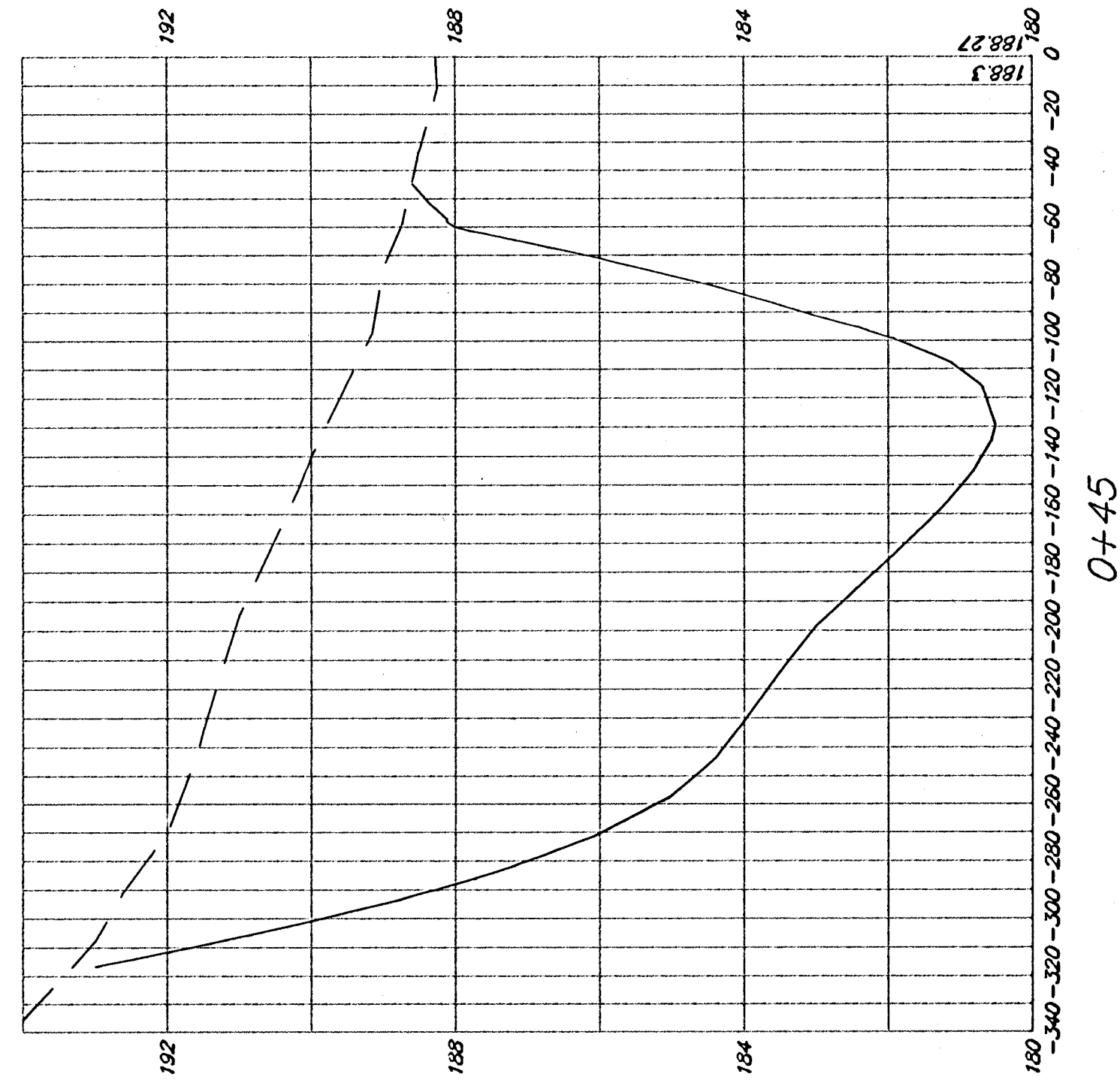
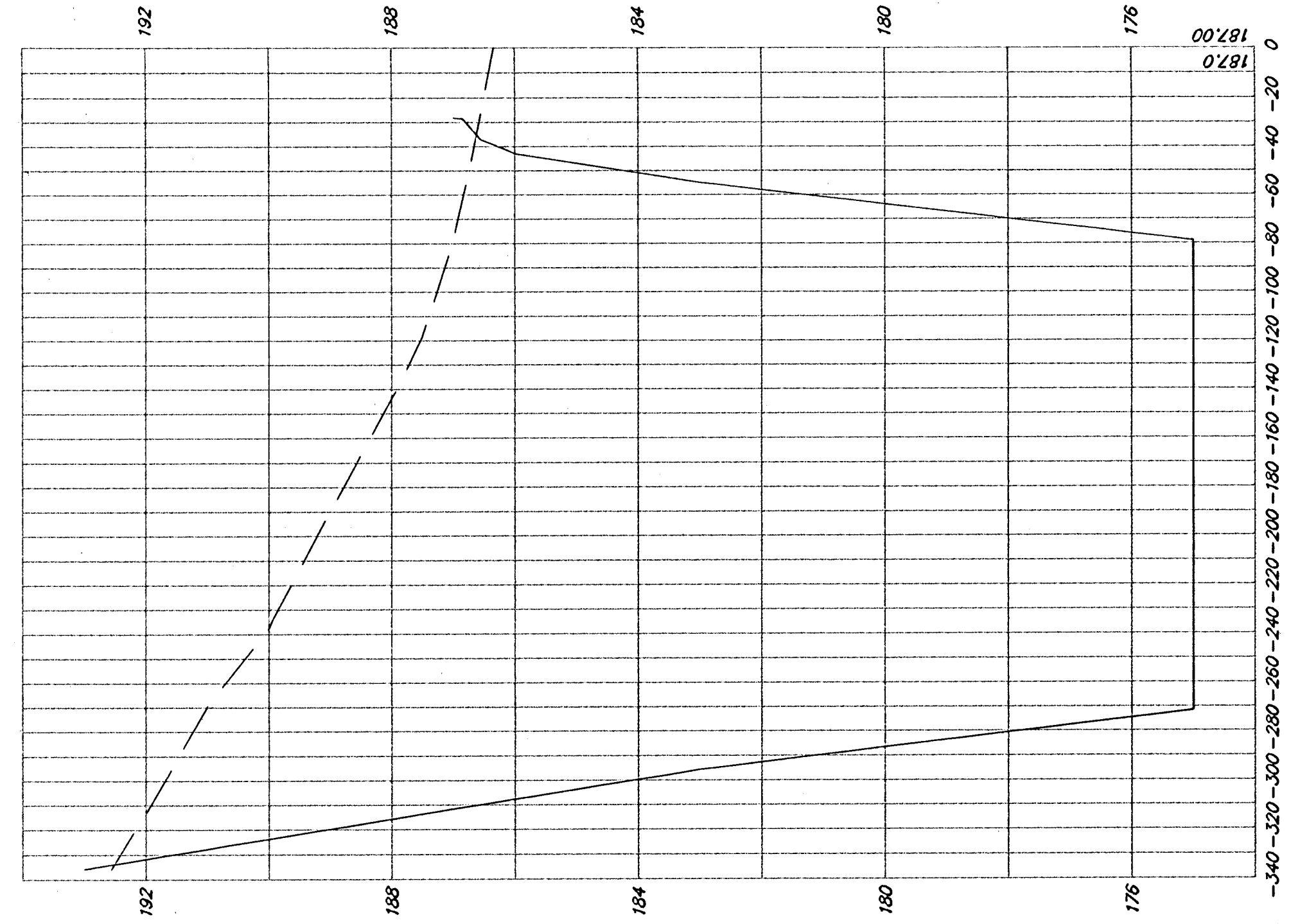
**\* TO BE PAID FOR AS THE LUMP SUM BID ITEM "EROSION CONTROL BMP'S"**



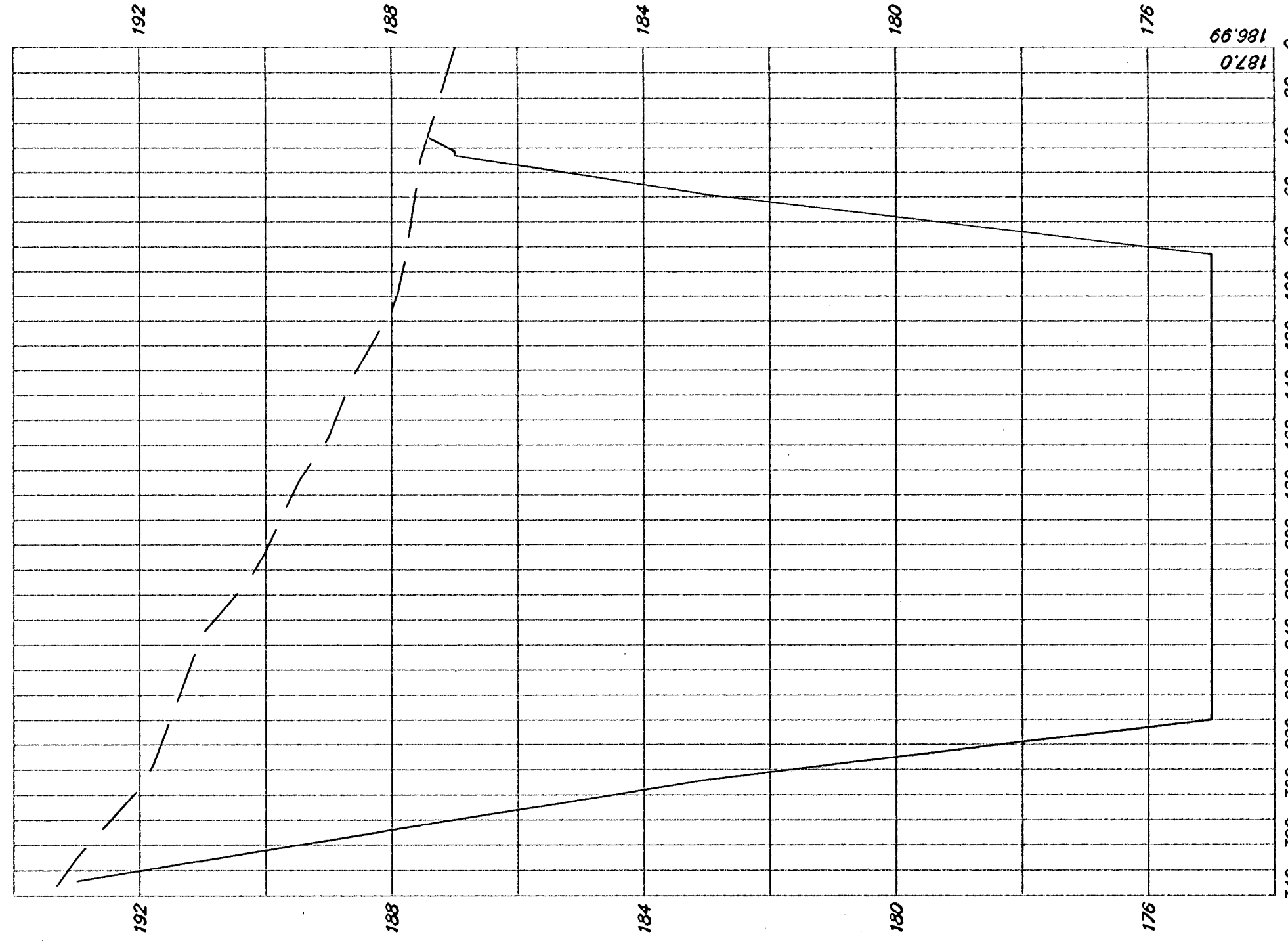
<b>SOIL EROSION BMP DETAILS</b>	
CHRISTOPHER M. CARRIER, P.E. STORM WATER ENGINEER	
PROJECT NUMBER 468-83403	QCA NO. 751312
DATE	SHEET 6 OF 12



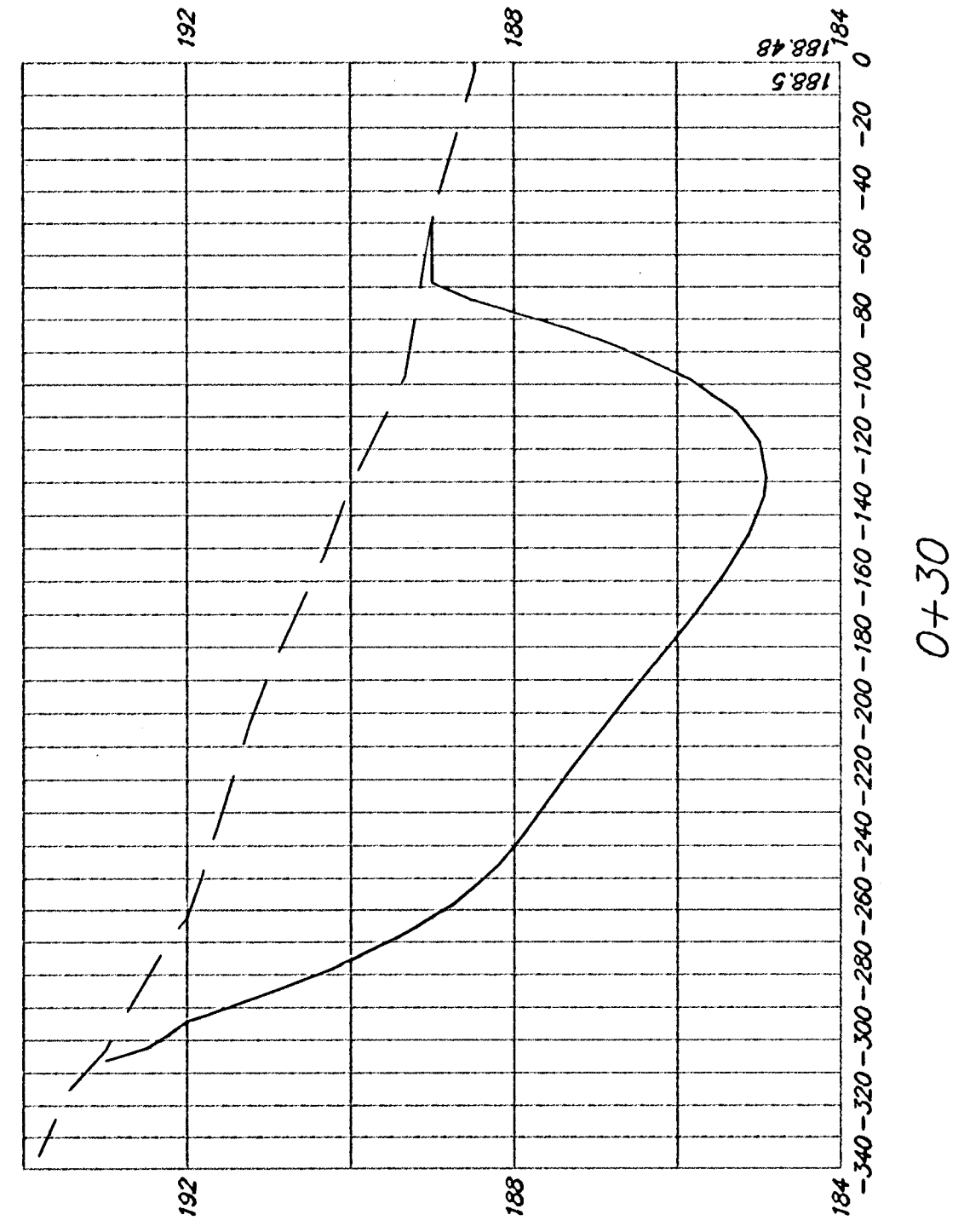
1+50



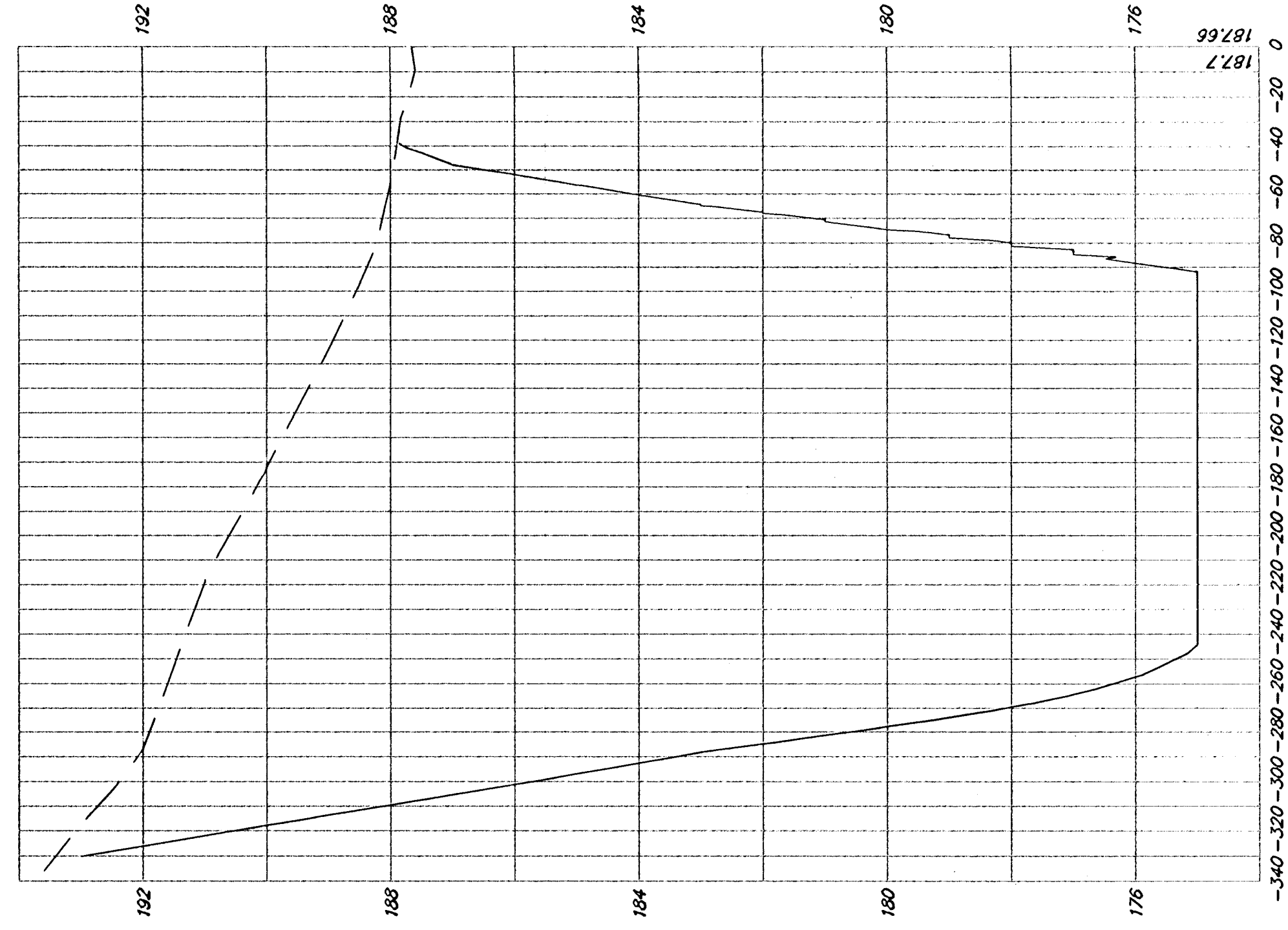
0+45



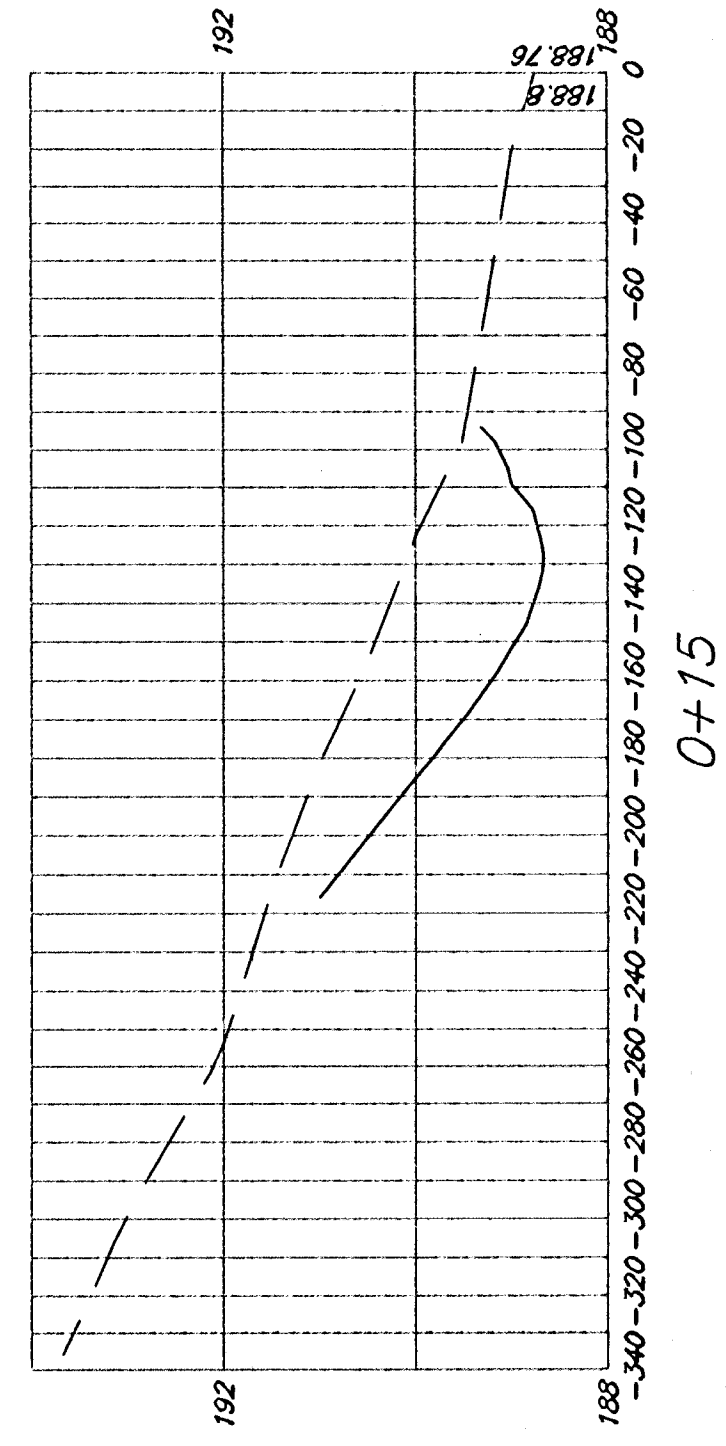
1+00



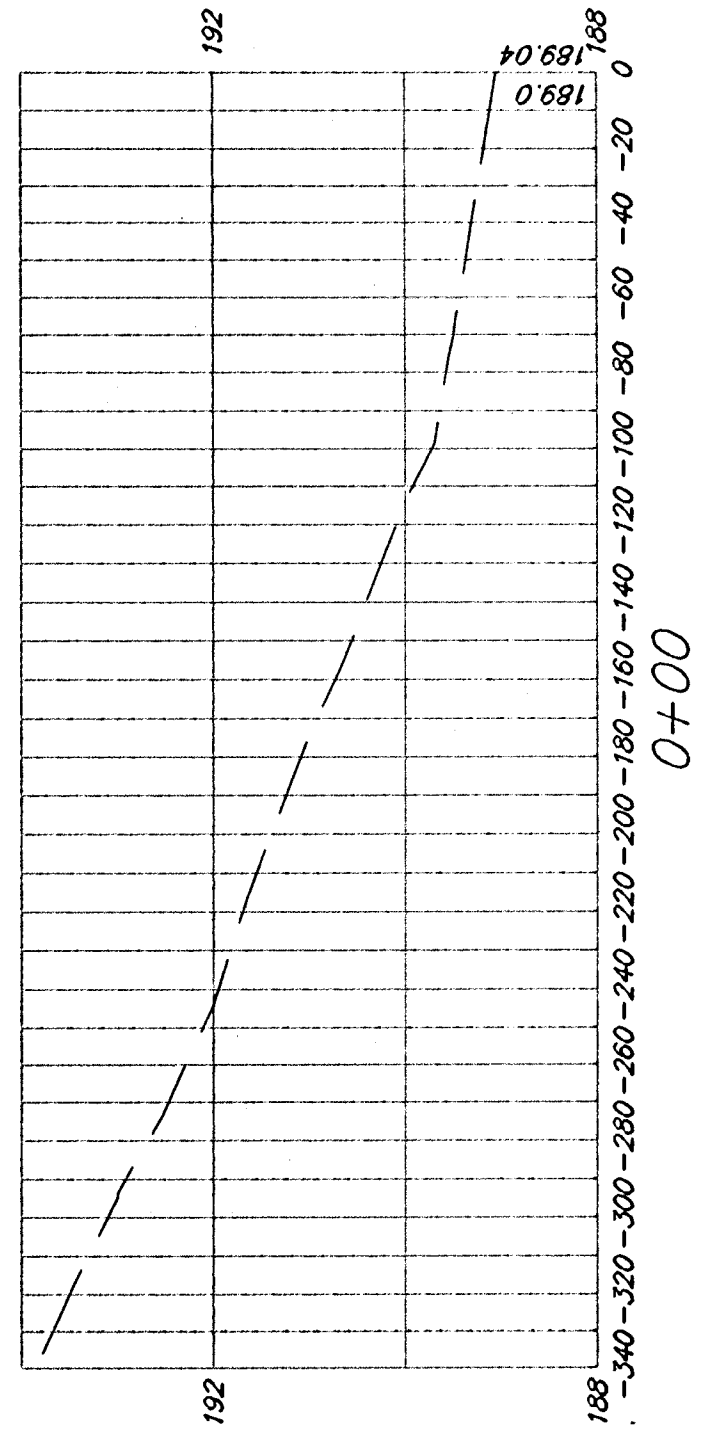
0+30



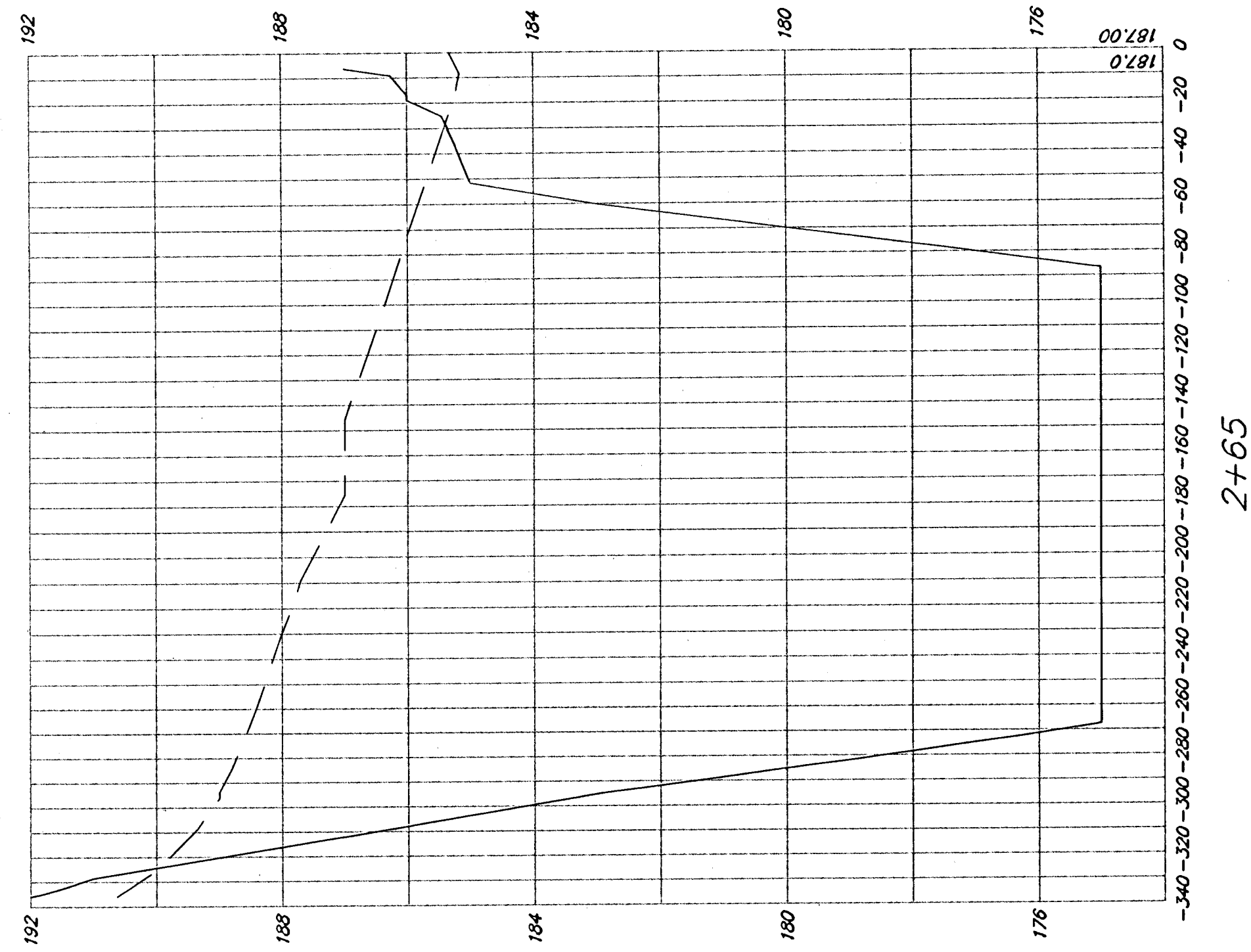
0+75



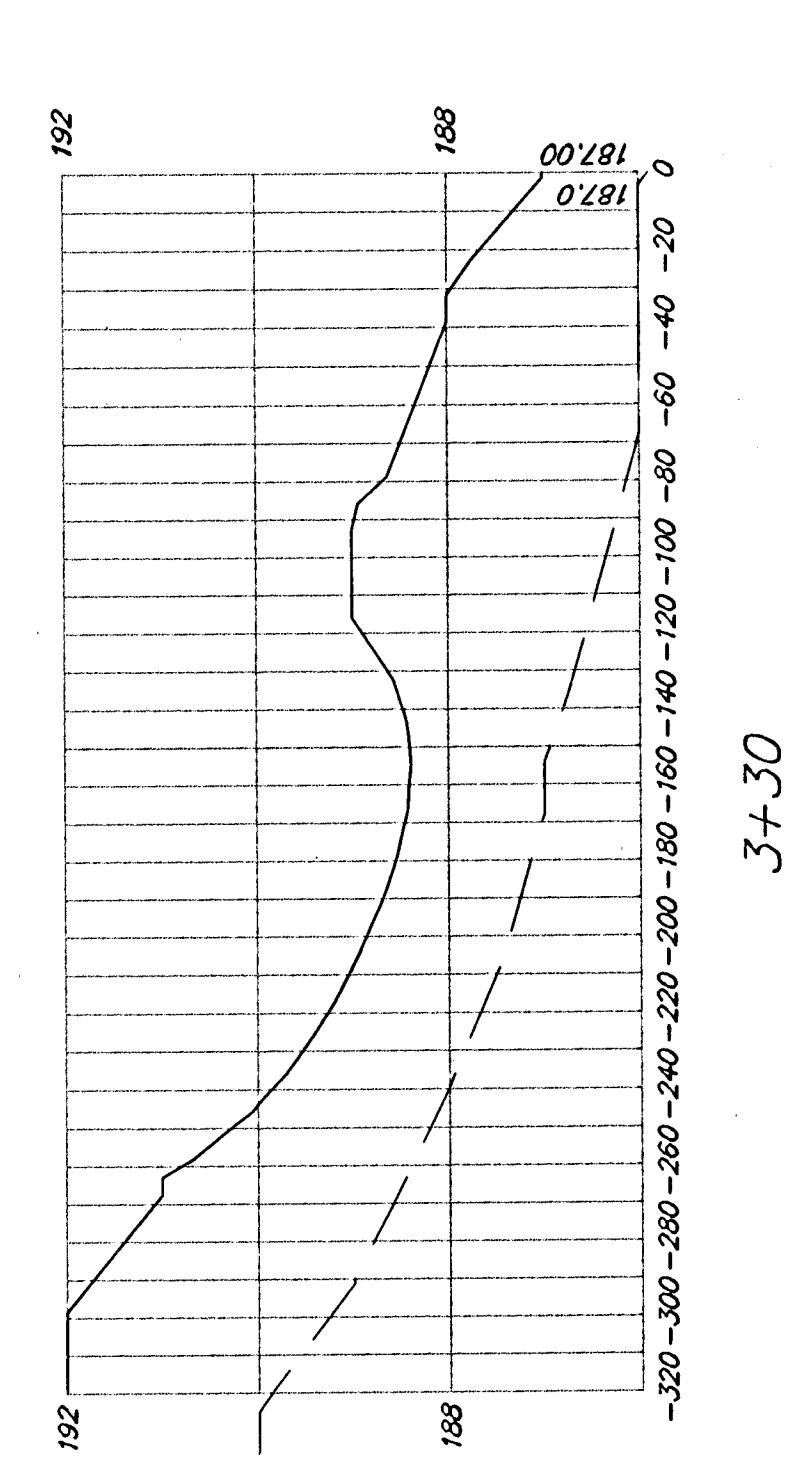
0+15



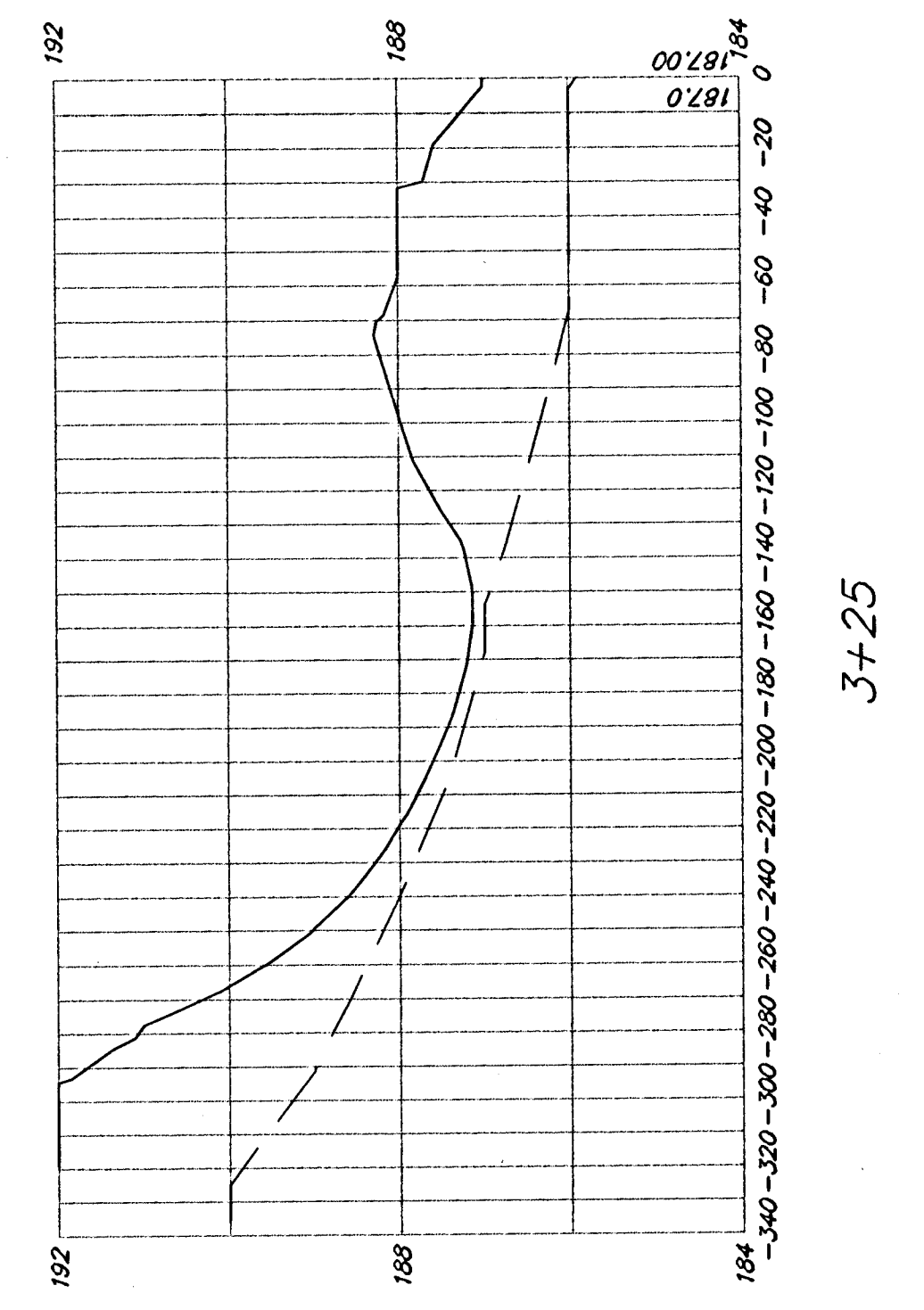
0+00



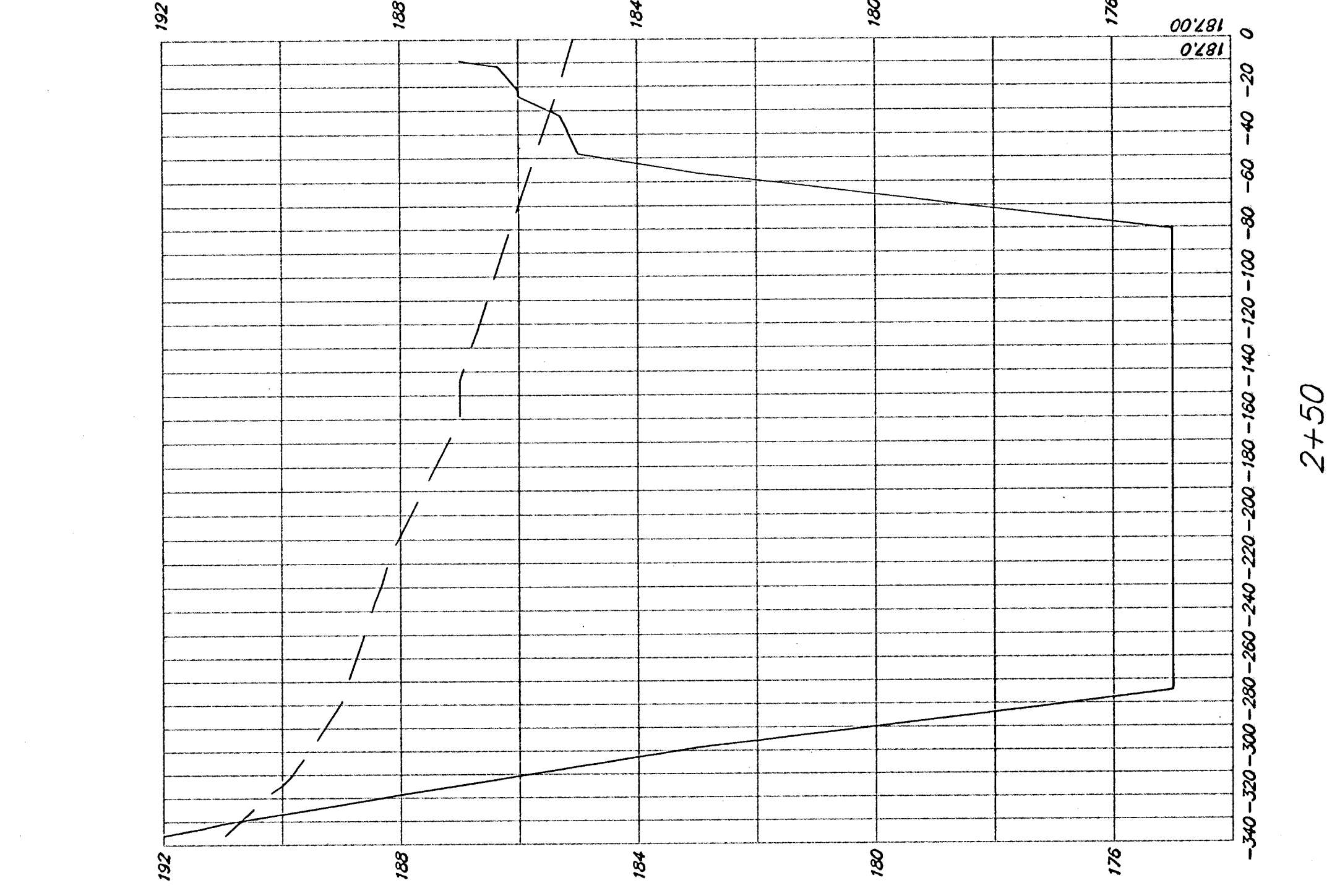
2+65



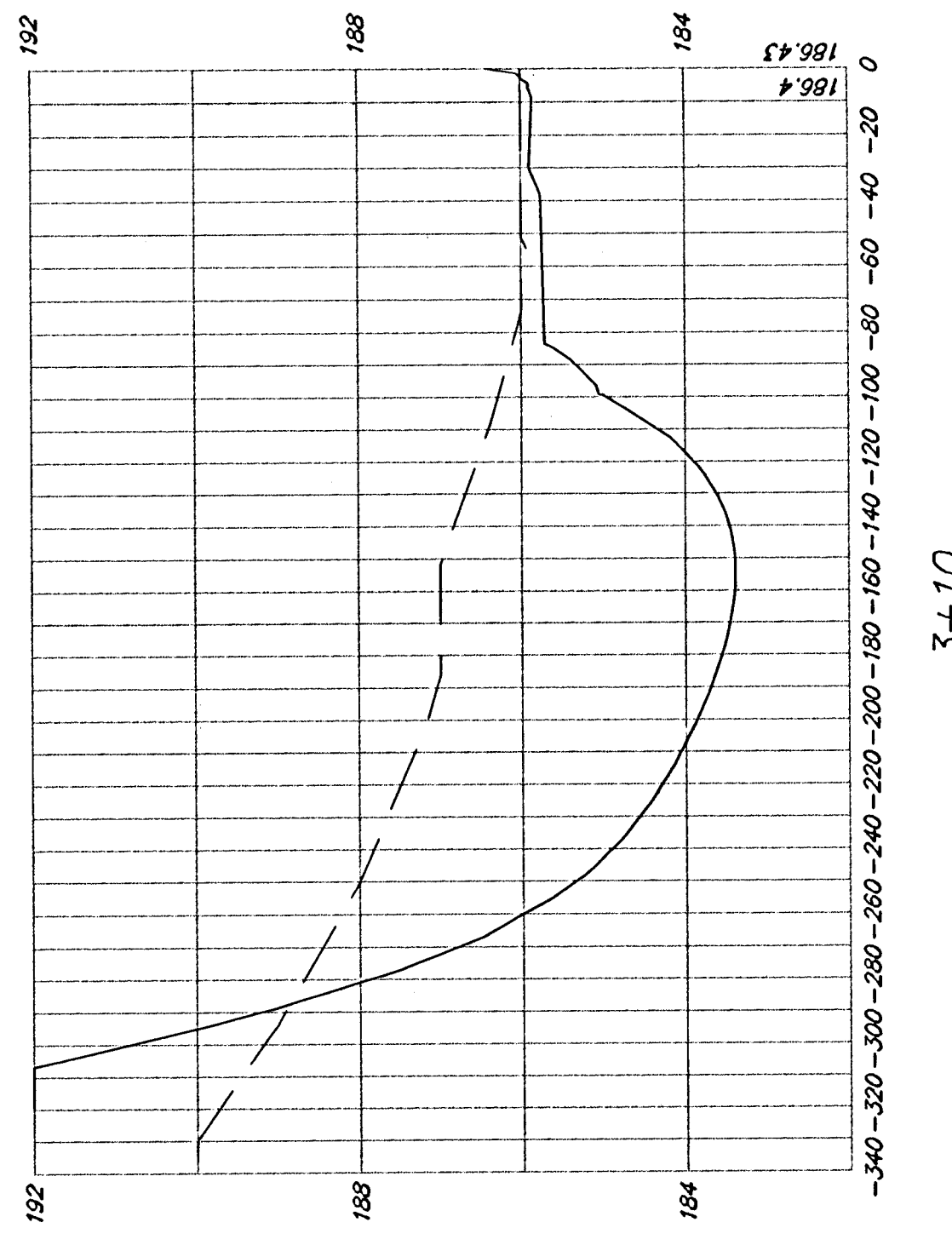
3+30



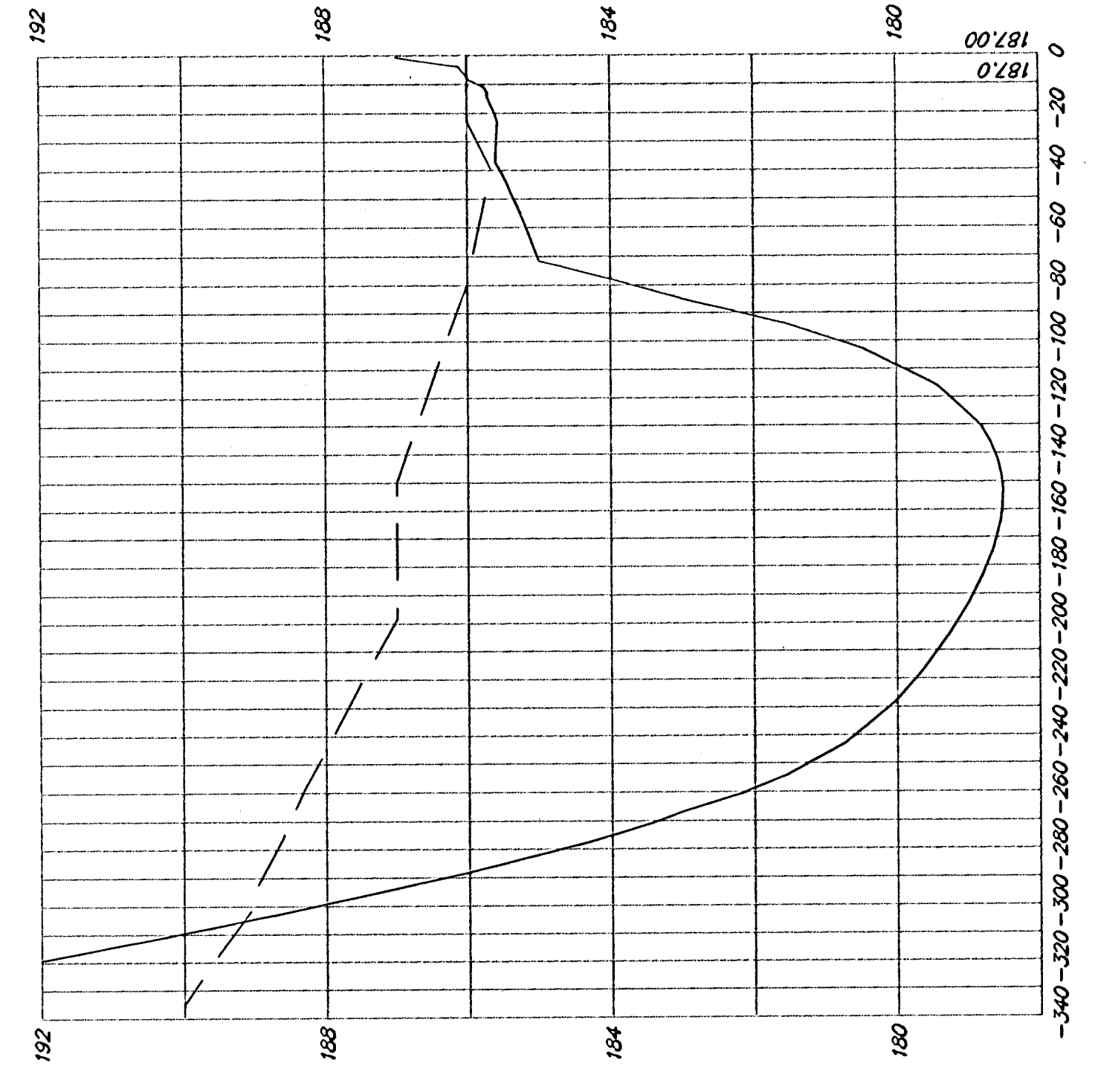
3+25



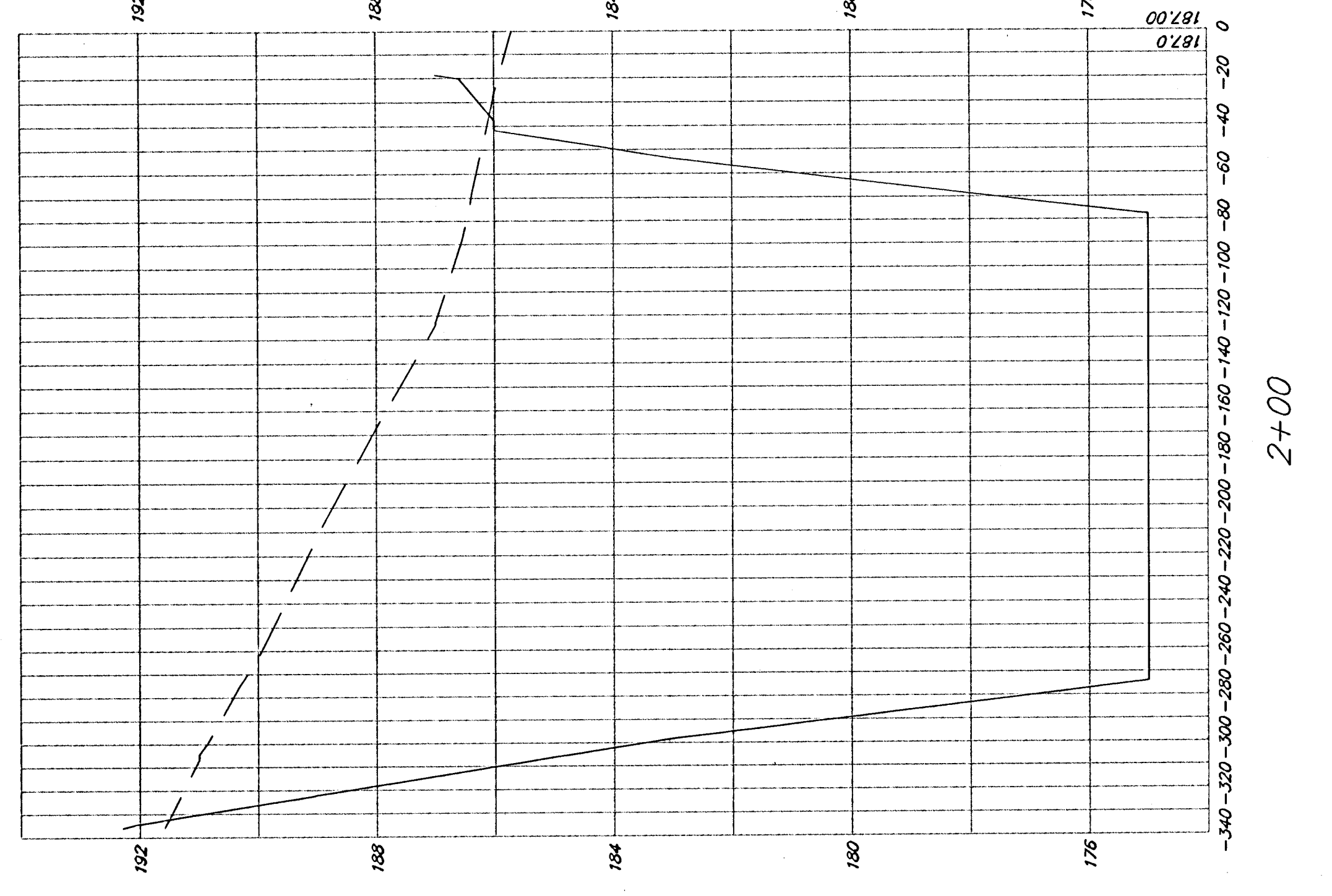
2+50



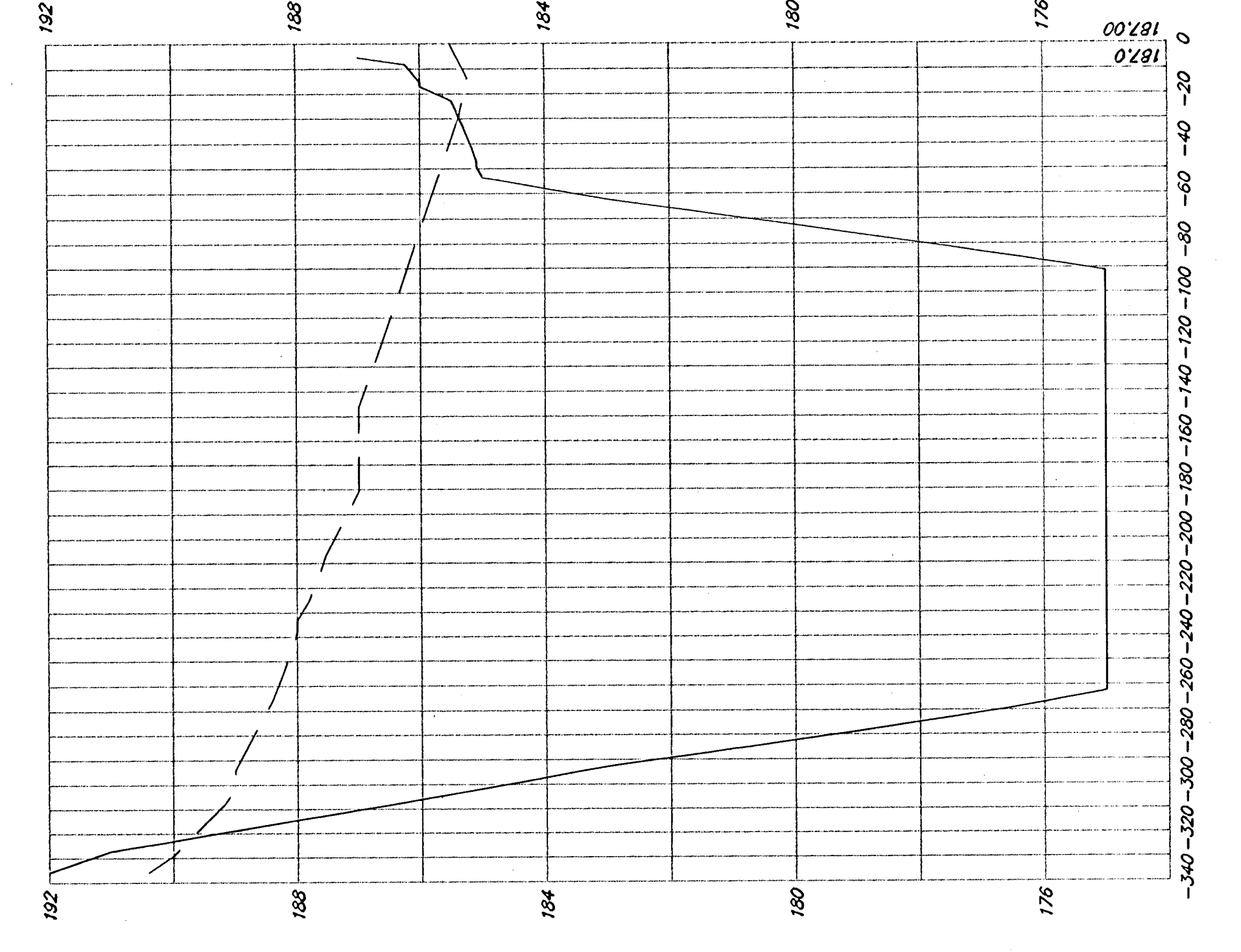
3+10



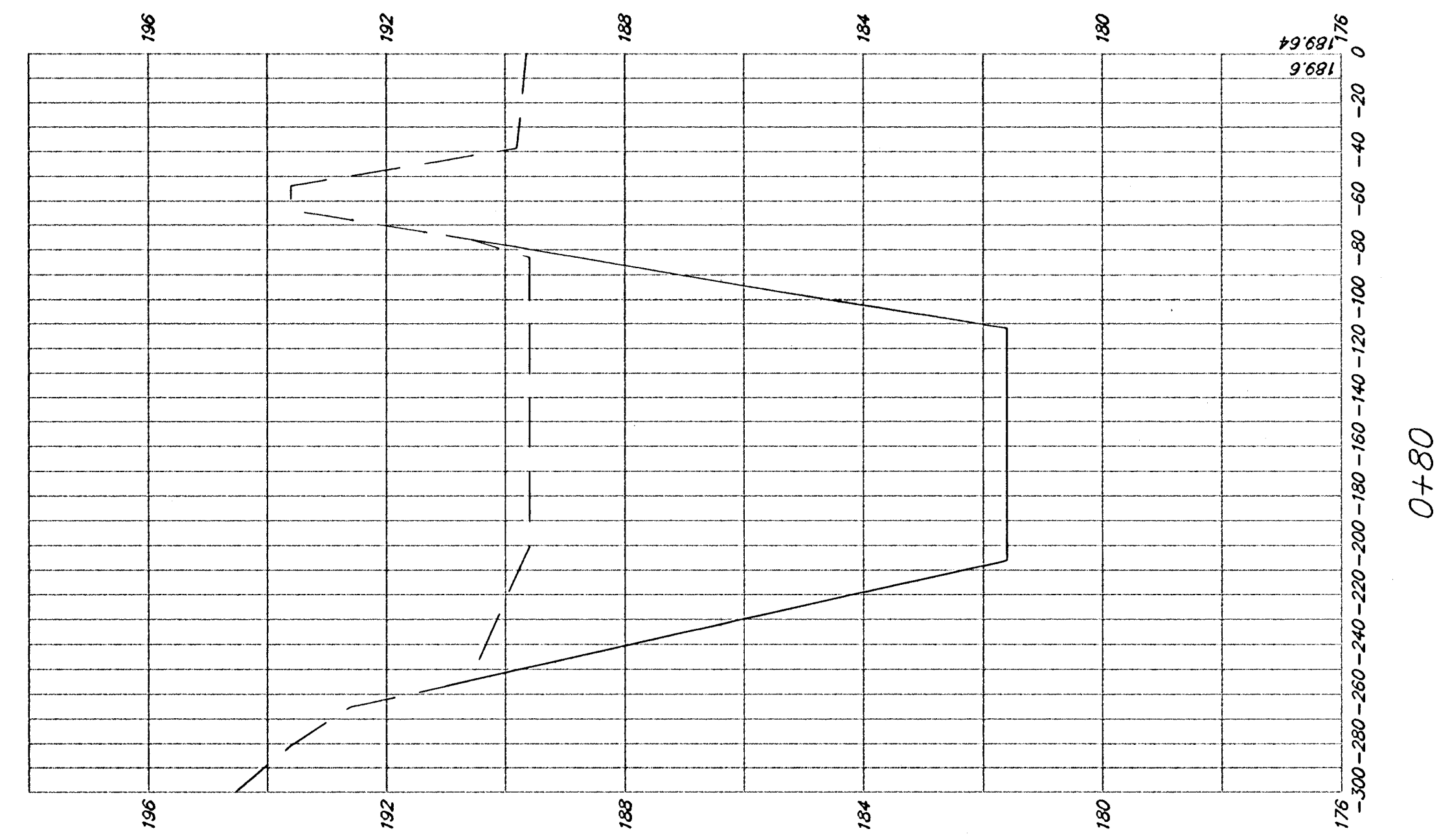
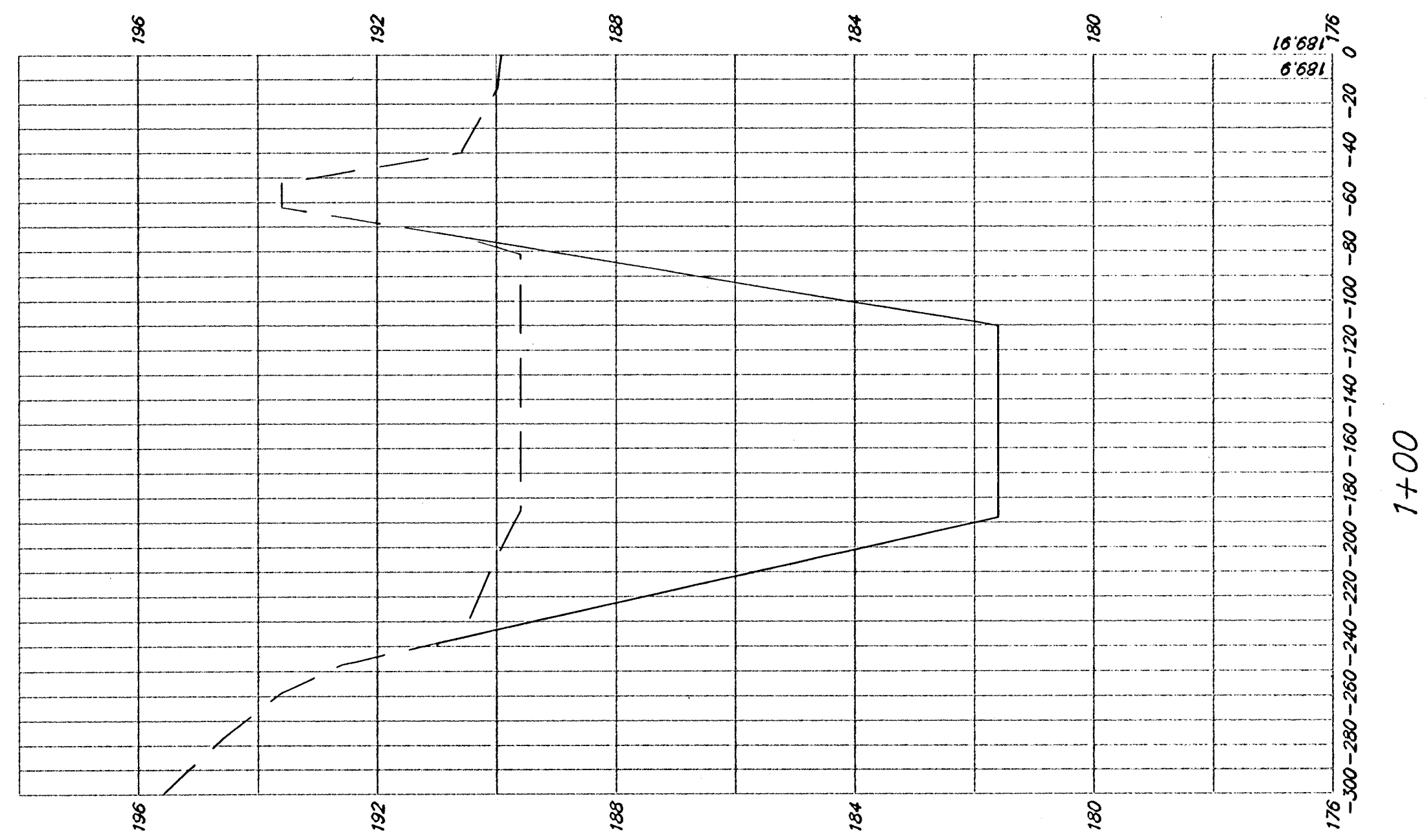
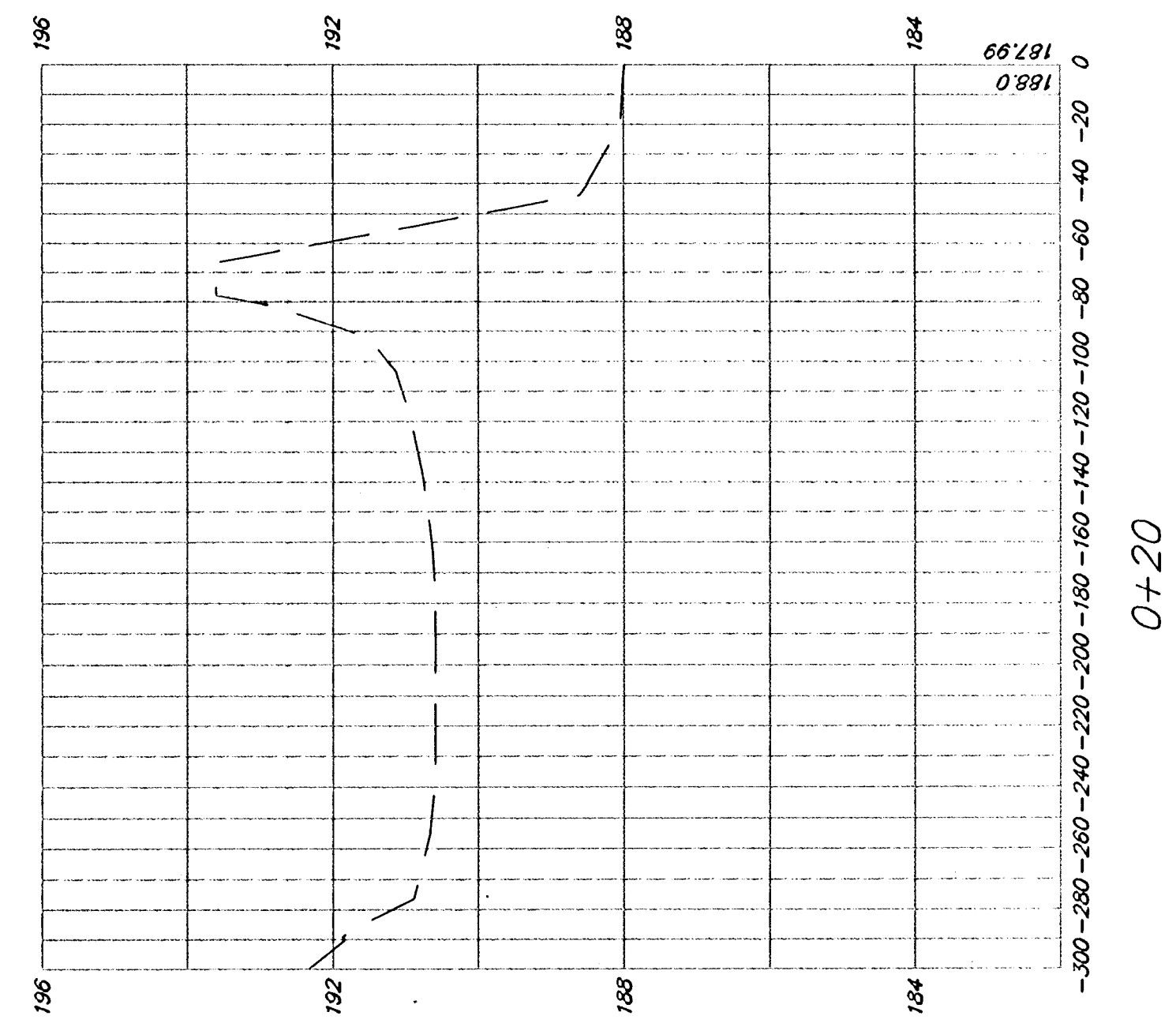
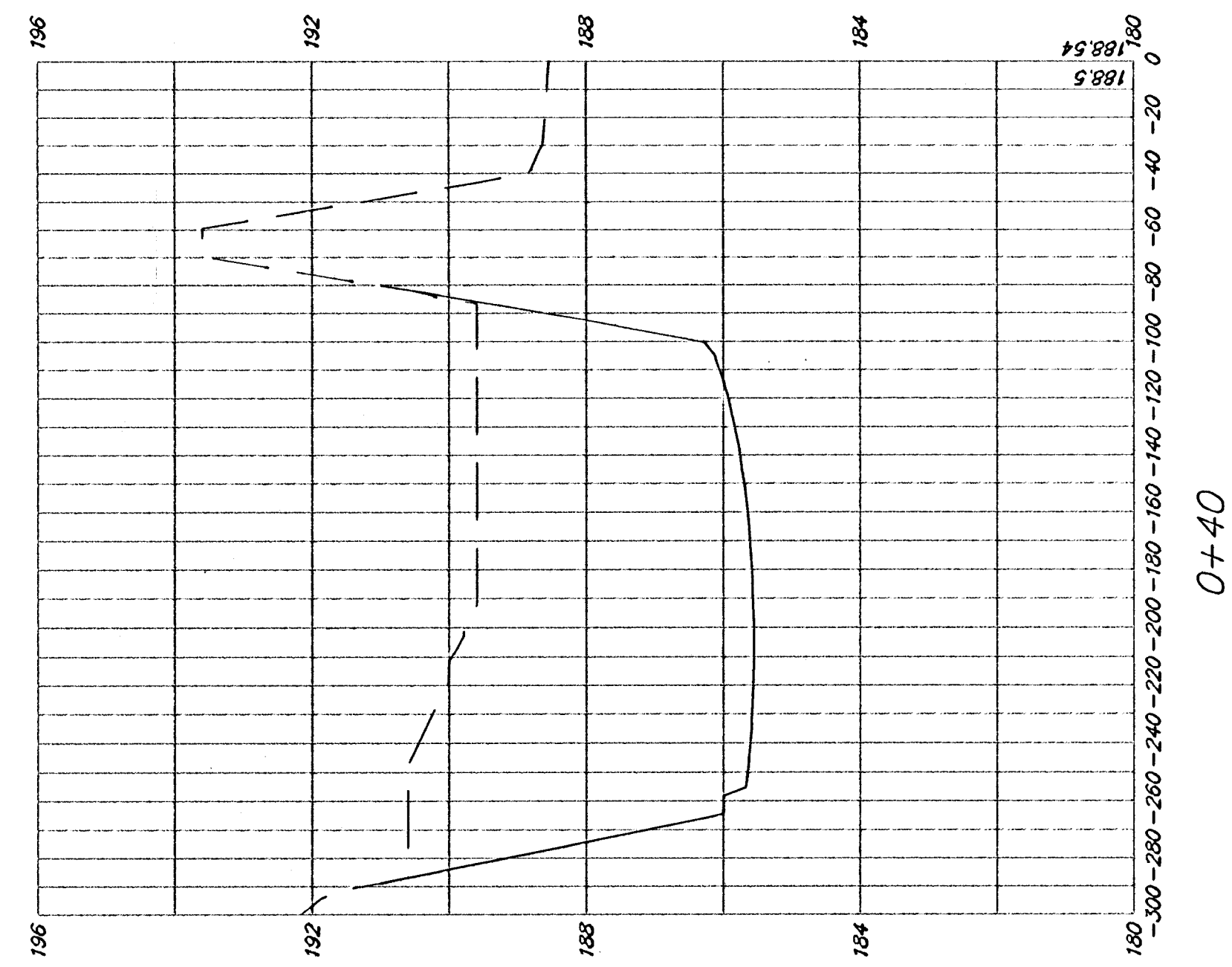
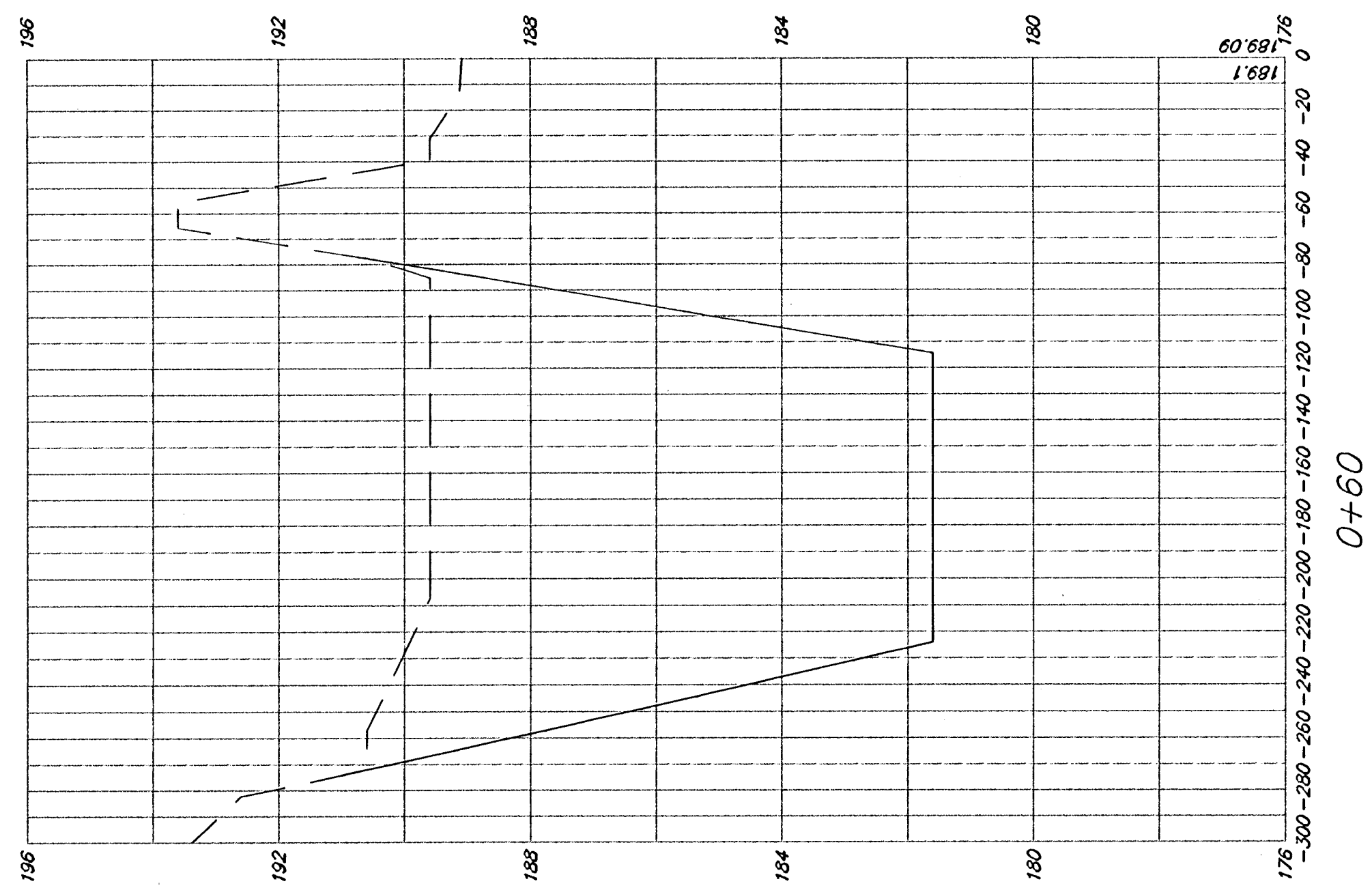
2+95

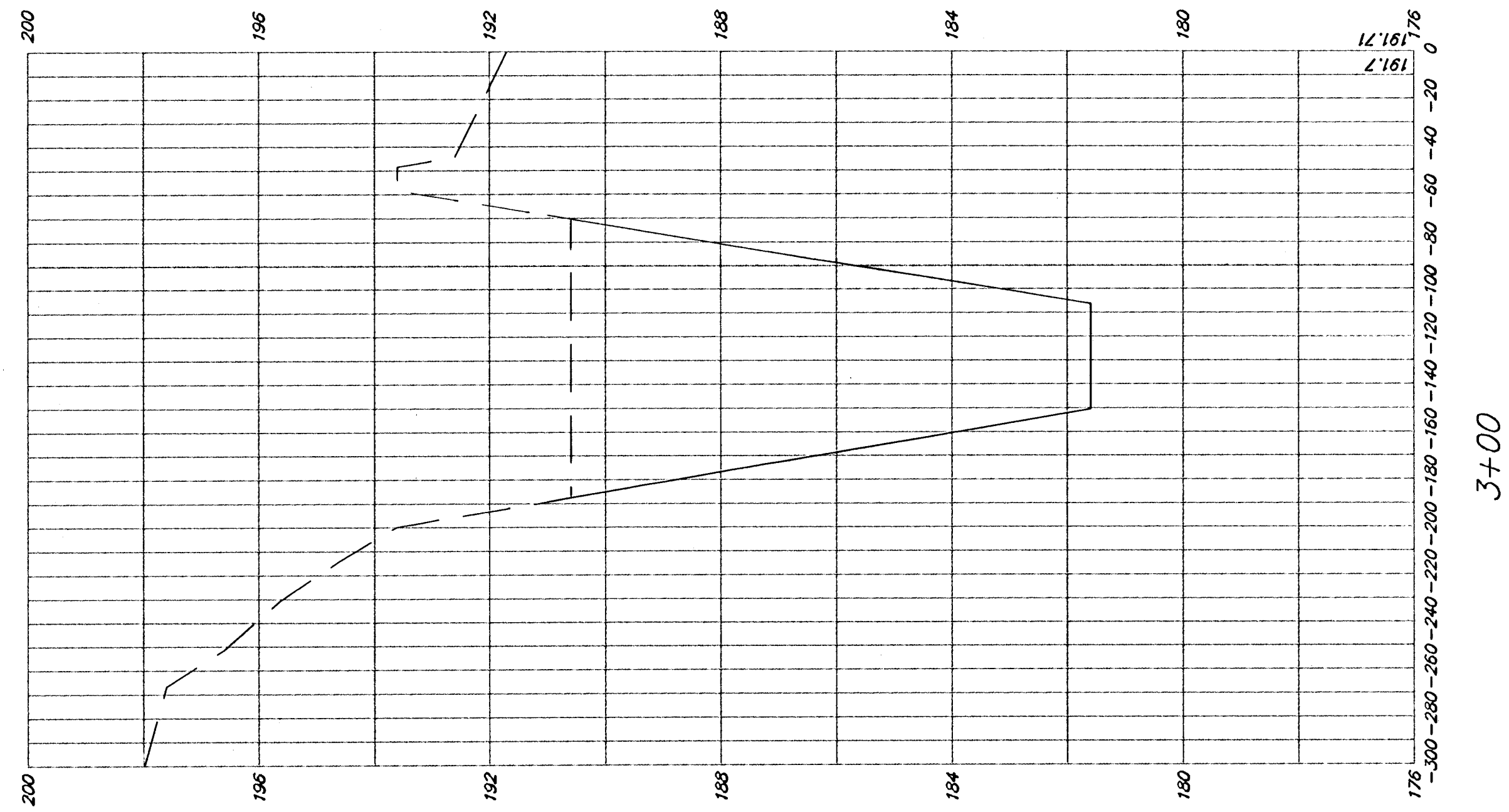


2+00

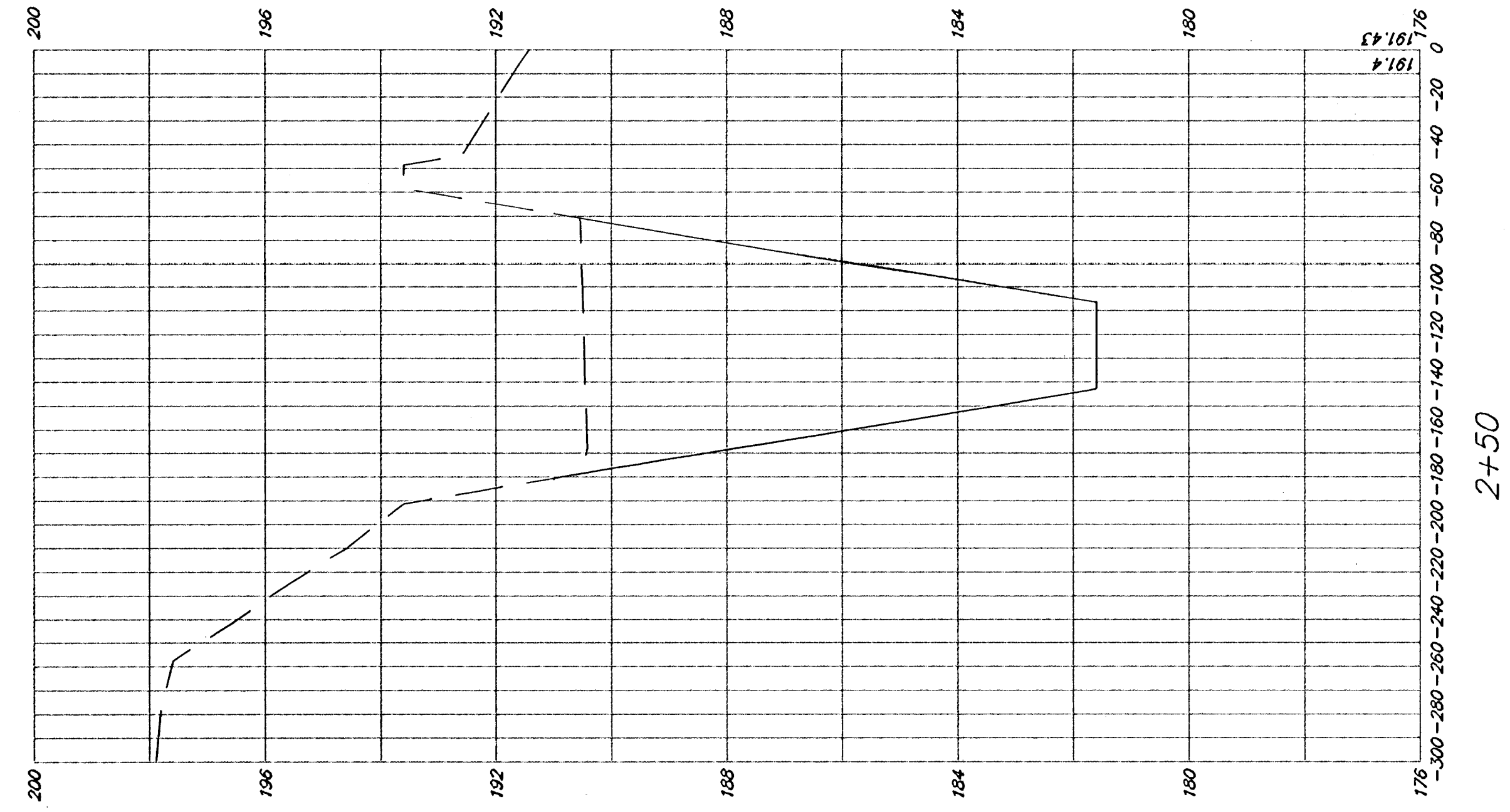


2+70

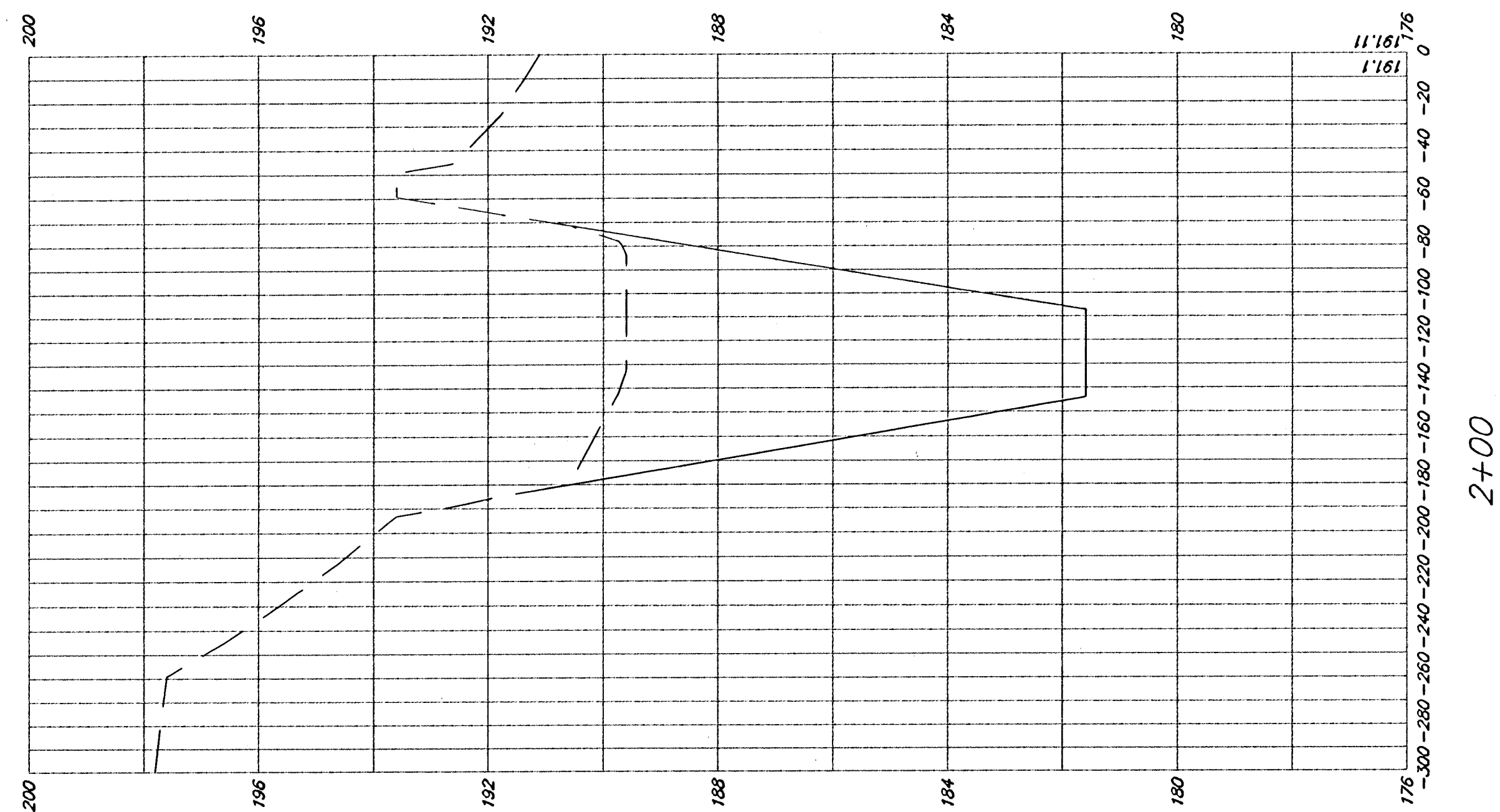




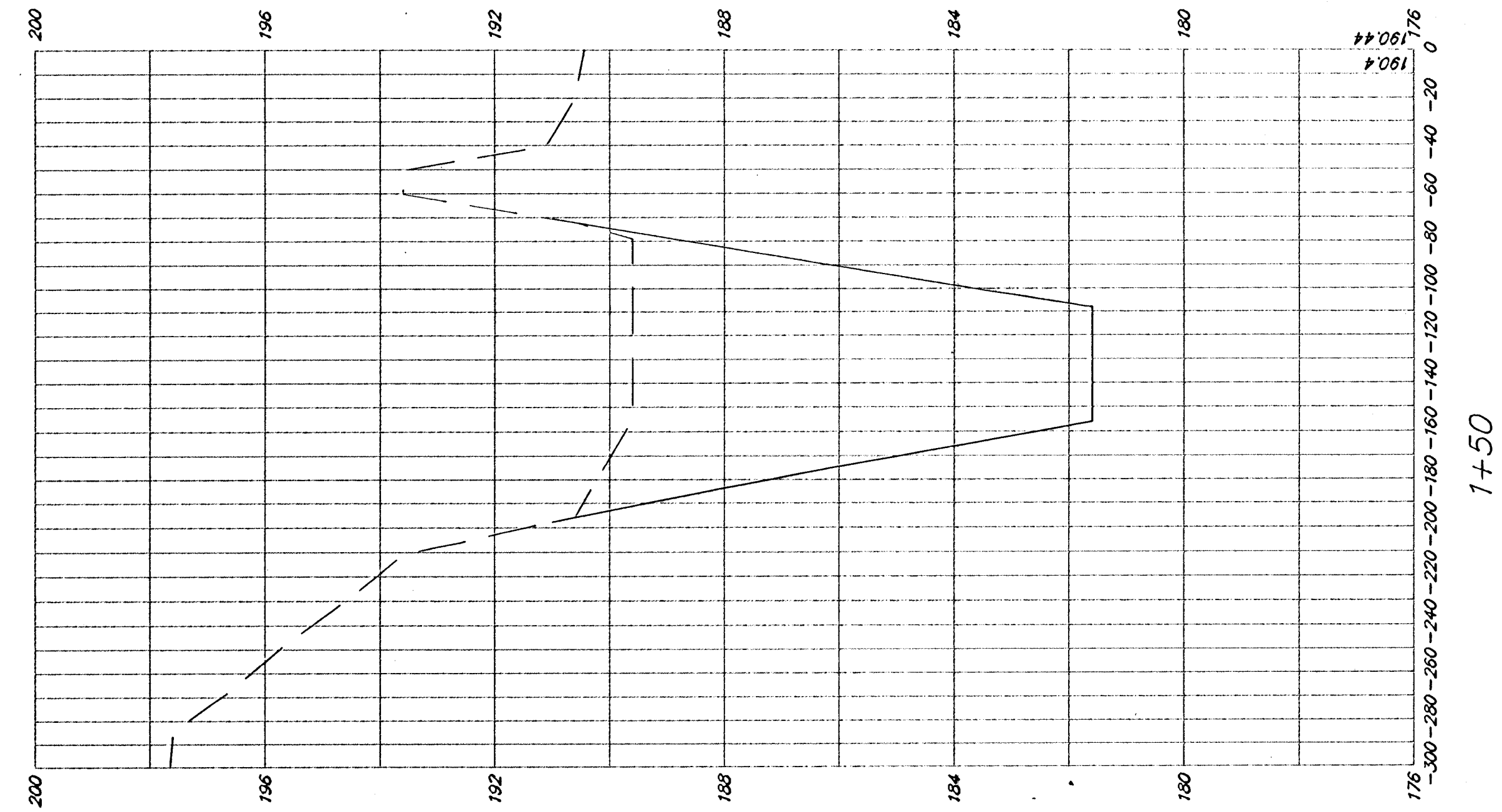
3+00



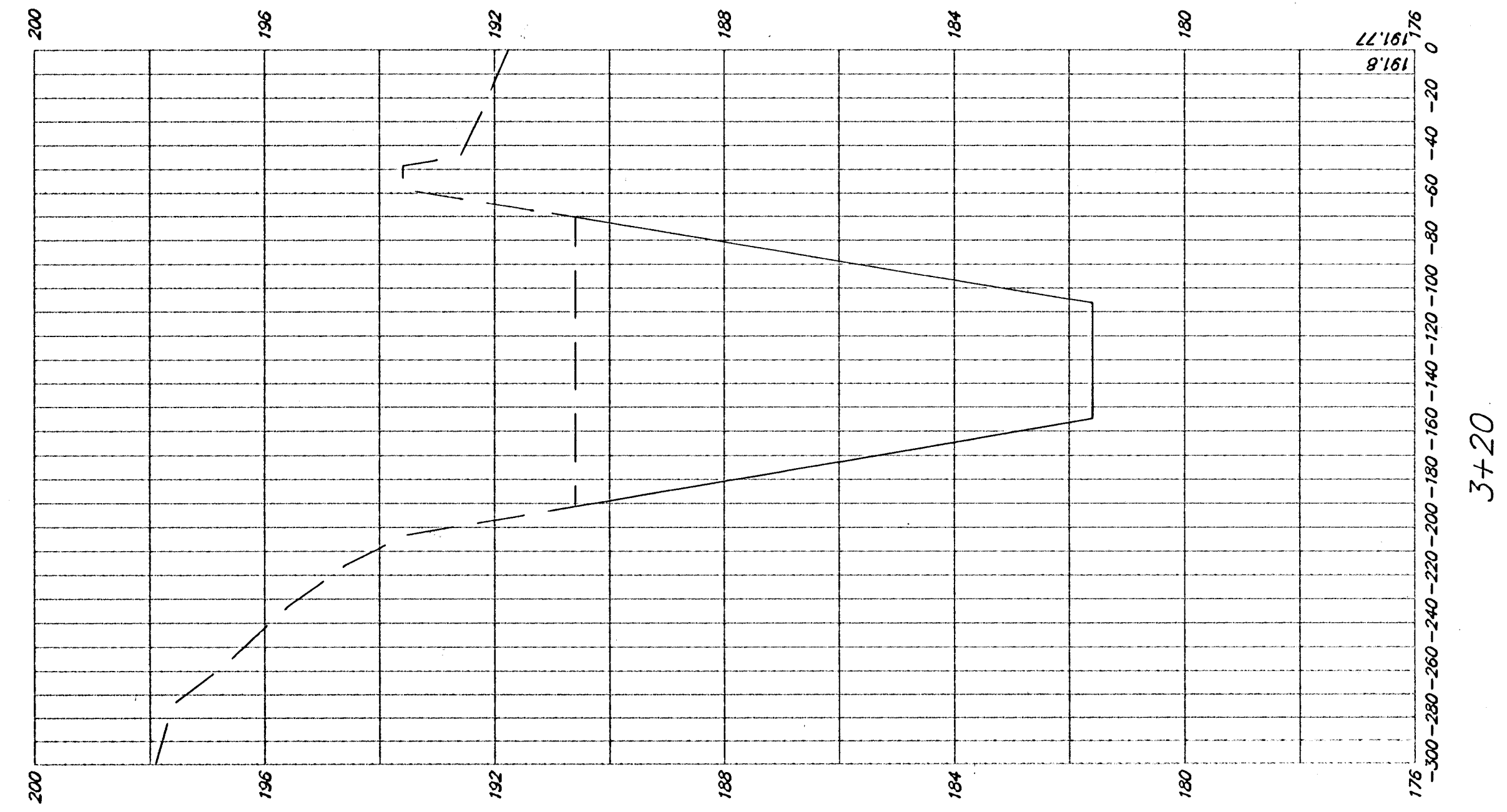
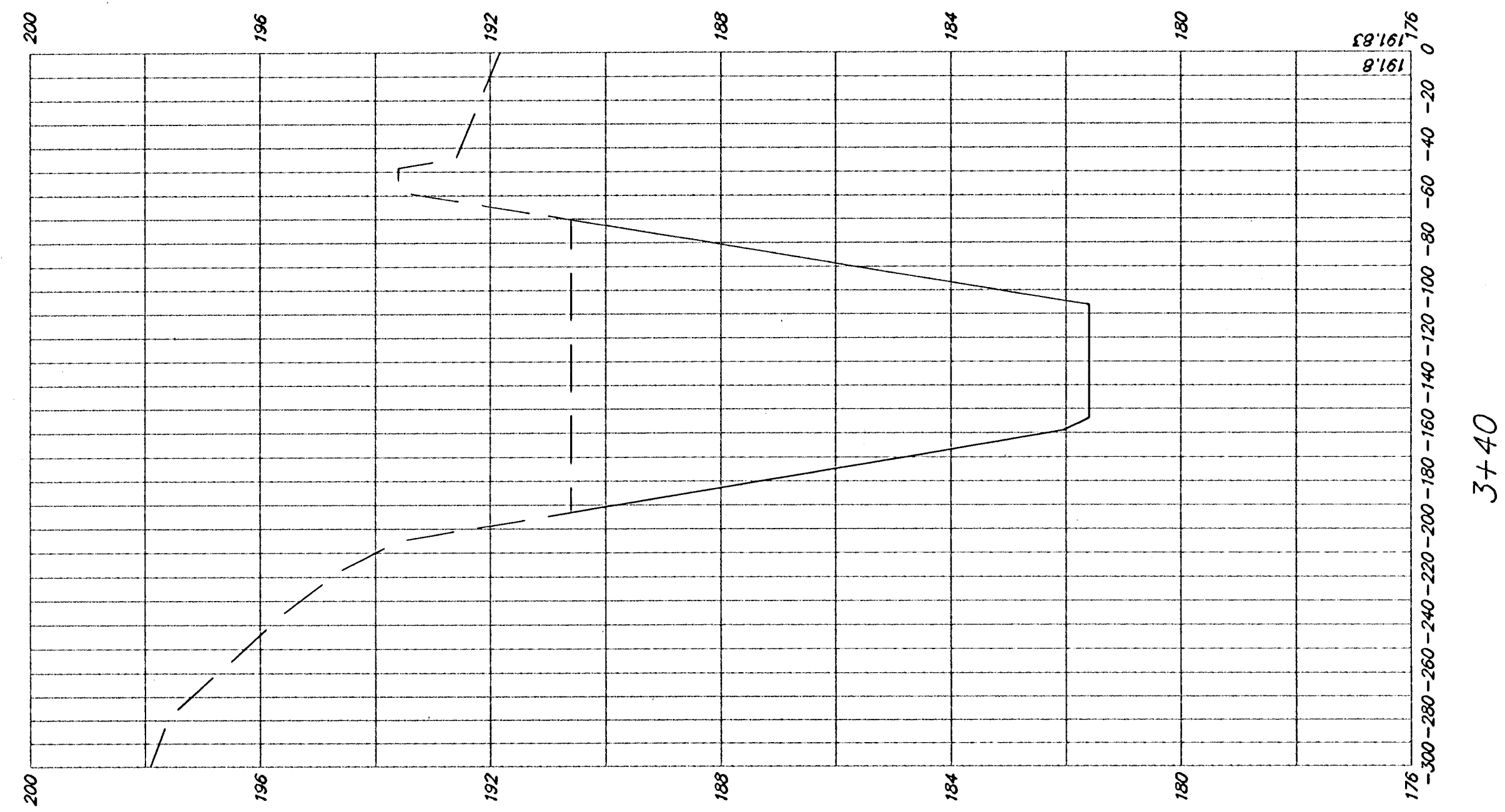
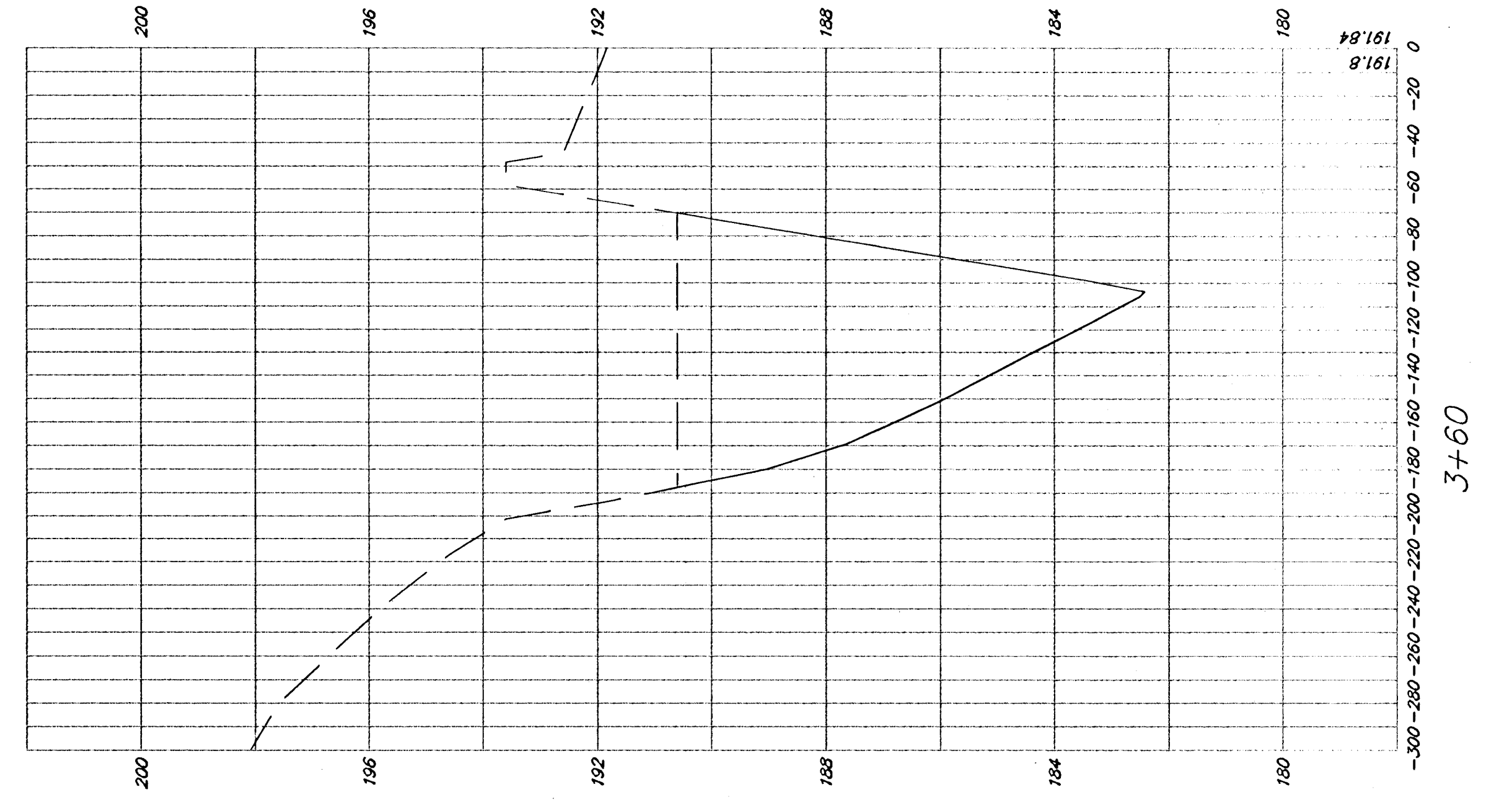
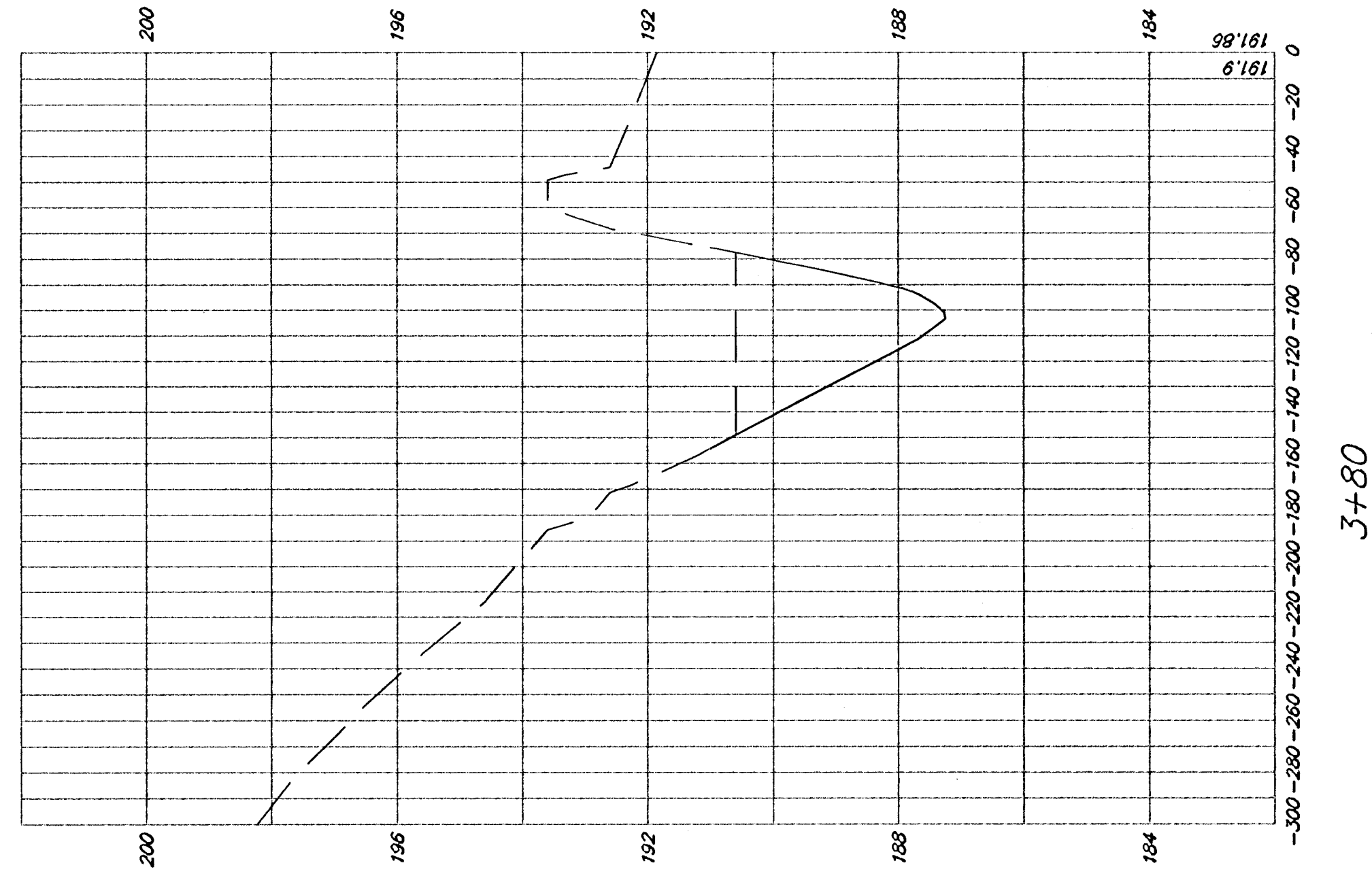
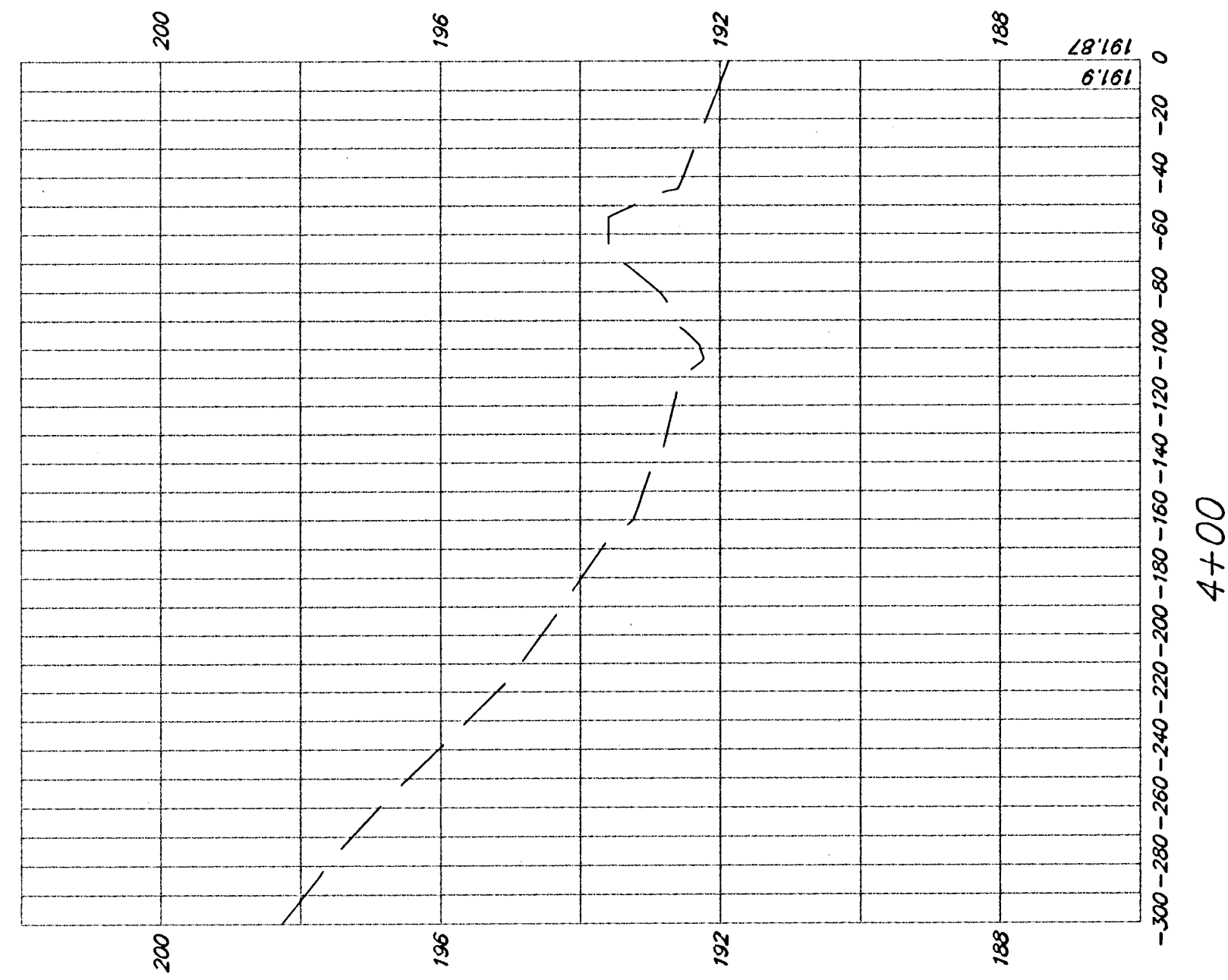
2+50



2+00

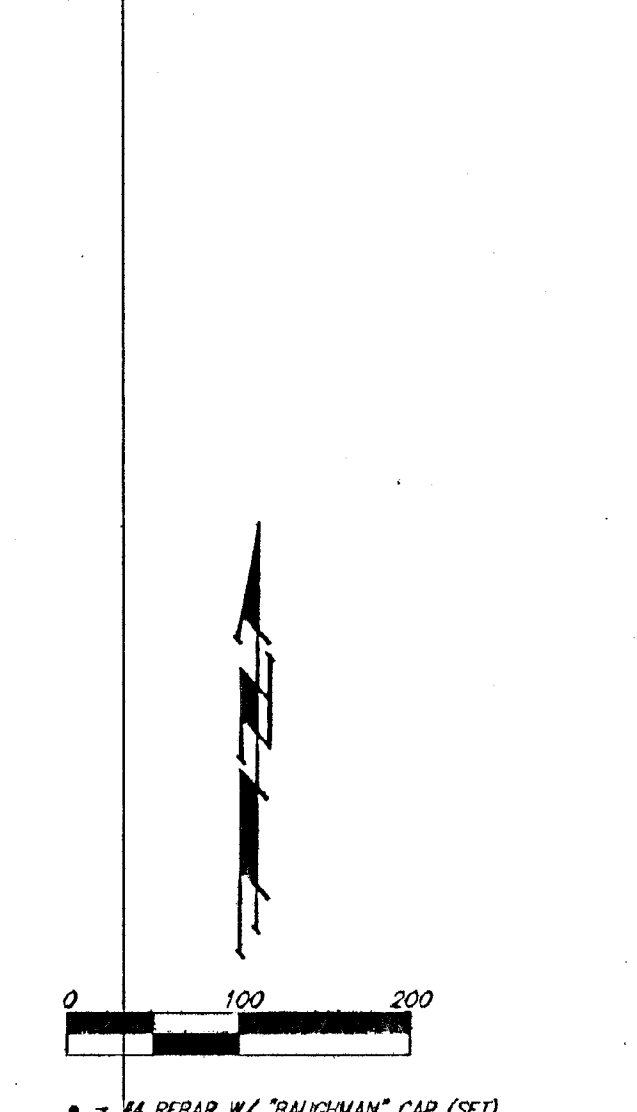
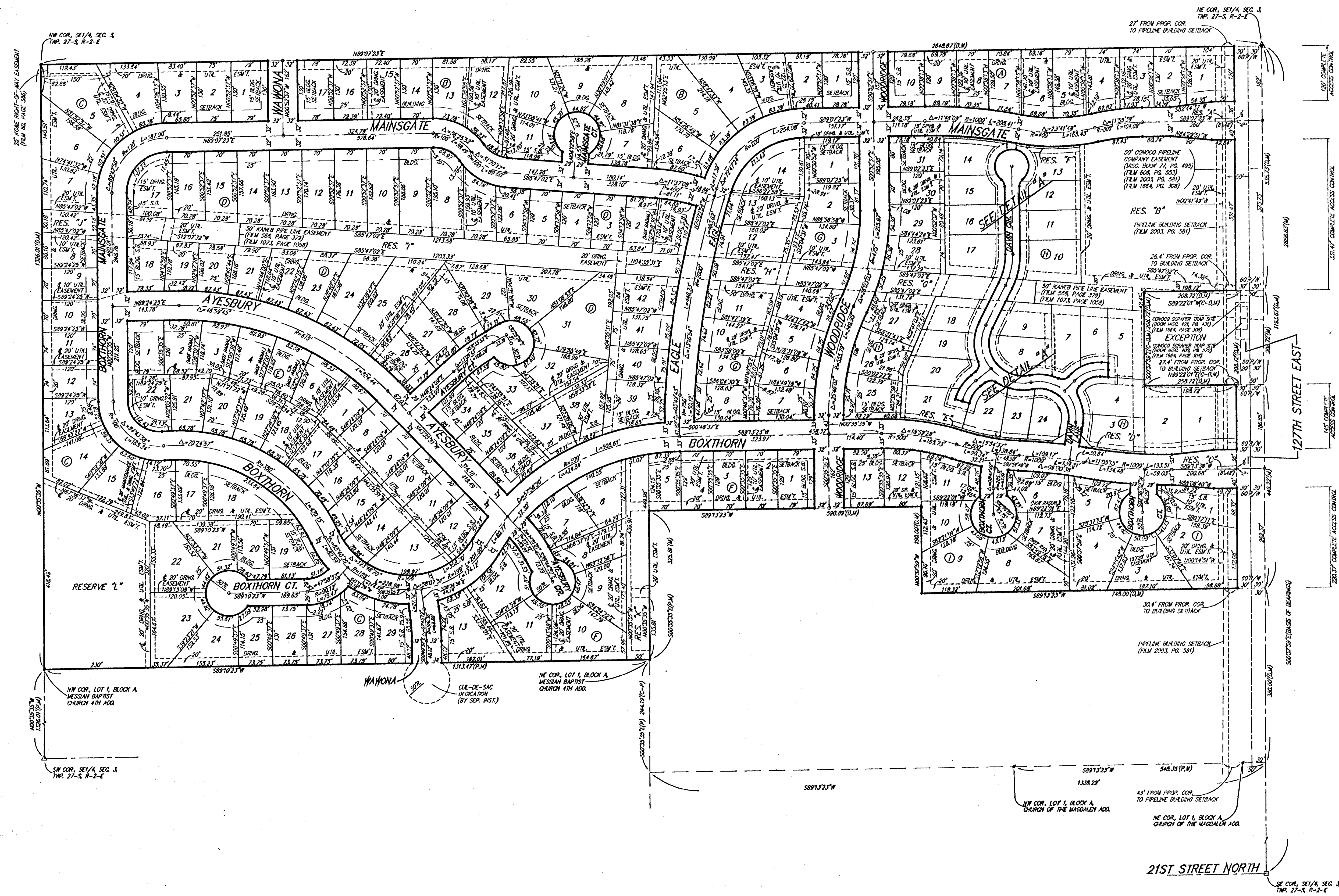


1+50



# THE FAIRMONT

## AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



\* 1/4" REBAR W/ "BALCONY" CAP (SET)  
 \* 1/4" REBAR W/ "BALCONY" CAP (FOUND)  
 \* 1/4" IRON (FOUND)  
 \* 1/4" REBAR W/ "TOWER" CAP (FOUND)  
 \* 1/4" REBAR OVER STONE (FOUND)  
 \* 1" NOTCH (SET)  
 \* 1" STEEL BRIDGE POST (FOUND)  
 \* 1/4" REBAR W/ "SP" CAP (FOUND)

(M) = MEASURED  
 (P) = PLATTED  
 (D) = DESIGNED  
 (C-D) = CALCULATED PER DESIGNED INFO.  
 (C-P) = CALCULATED PER PLATTED INFO.

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOTS	BLOCK	ELEVATION
14, 15, 16, 22, 23	C	198.5 1583.9
5-10	F	198.5 1583.9
5-7, 9-13	H	198.0 1573.4

**RECORDING:**  
 GREENWICH AND 21ST NORTH  
 CITY OF WICHITA BENCHMARK DISC  
 #1 SOUTH AND 50' WEST OF IRON CUR. LINE BOTH  
 17'W SW OF ASPHALT, 14.2' EAST OF FACE P.P.  
 17'W WEST OF FACE P.P.  
 ELEVATION = 153.58 (CITY DATUM), 1561.38 NGVD

**COUNTY "13" CUT SOUTH HEADWALL**  
 1/2 MILE WEST OF 127TH ST. EAST  
 ON 37TH STREET NORTH  
 24.4' = 198.64 (CITY DATUM), 1573.23 NGVD

**TOP OF IRON - SE COR., SE 1/4, SEC. 3,  
 TWP. 27-S, R-2-E, (127TH ST. EAST &  
 21ST ST. NORTH)**  
 23.6' = 198.01 (CITY DATUM), 1585.41 NGVD

**NOTE:**  
 A master grading plan for drainage has been developed for this subdivision and is on file with the City of Wichita, Kansas. All drainage easements, rights-of-way, or reserves shall remain as established prior to or as modified with the approval of the City Engineer of the City of Wichita, Kansas. No obstructions which impede the flow of this drainage system be allowed.

18/23/92-04