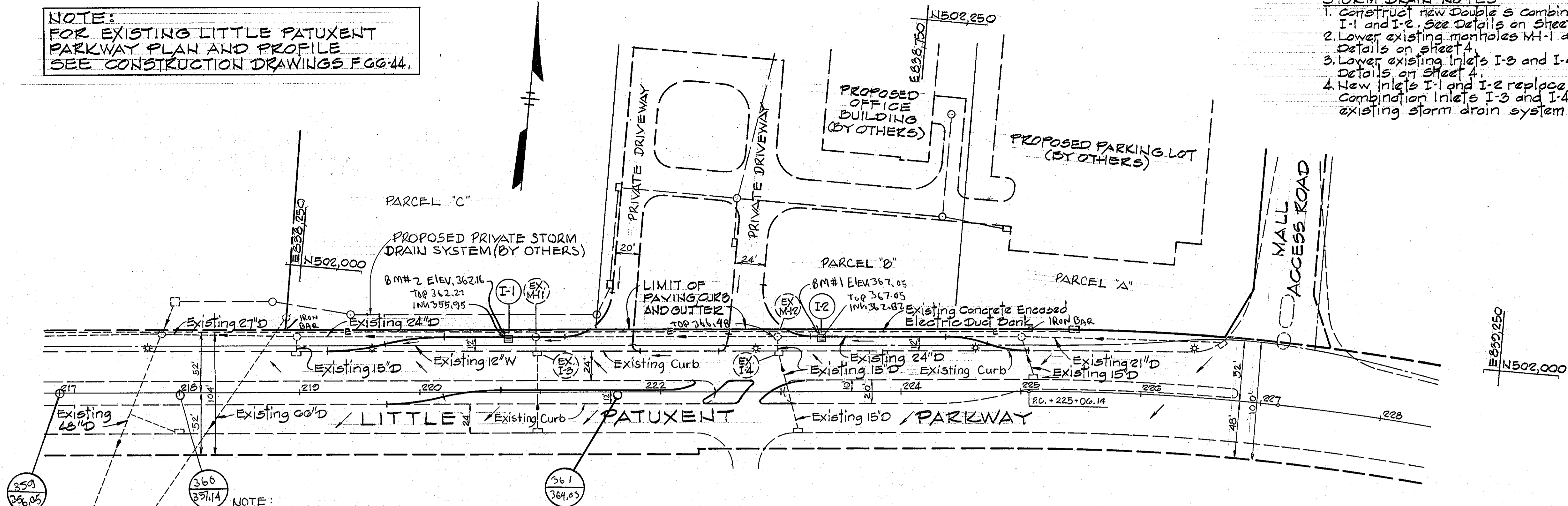


NOTE:
FOR EXISTING LITTLE PATUXENT
PARKWAY PLAN AND PROFILE
SEE CONSTRUCTION DRAWINGS FGG-44.

STORM DRAIN NOTES
 1. Construct new Double S combination Inlets I-1 and I-2. See Details on Sheet 4.
 2. Lower existing manholes MH-1 and MH-2. See Details on sheet 4.
 3. Lower existing Inlets I-3 and I-4. See Details on sheet 4.
 4. New Inlets I-1 and I-2 replace the Double S combination Inlets I-3 and I-4 in the existing storm drain system.

DEPARTMENT OF PUBLIC WORKS
James E. Rice 8-1-85
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING & ZONING
Shirley M. Muehlen 7-31-85
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND ZONING ADMINISTRATION



NOTE:
1. Remove existing curb and paving as required.
2. Relocate 3 street lights as required. *

NOTE:
PAVING WIDTH = 12' (STORAGE LANE)
LENGTH OF STORAGE LANES = 800'±
3 NEW SEWER MHS IN ROAD R/W

PLAN
Scale: 1" = 50'

NOTE:
SEE SHEET 3 FOR 30 SCALE
STAKEOUT PLAN FOR ACCELERATION LANE,
DECELERATION LANES AND CROSS-OVER

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-1	Double S Comb. S.D. 434	361.20	356.1	350.0	Opposite Sta. 220+74 *
I-2	Double S Comb. S.D. 434	367.00	362.7	352.0	Opposite Sta. 223+34 *

* See Details I-1 and I-2 Sheet 4.

DATE	NO.	REVISION DESCRIPTION
6/14/85	1	As Per D.P.W. and Planning Comments

COLUMBIA
5TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

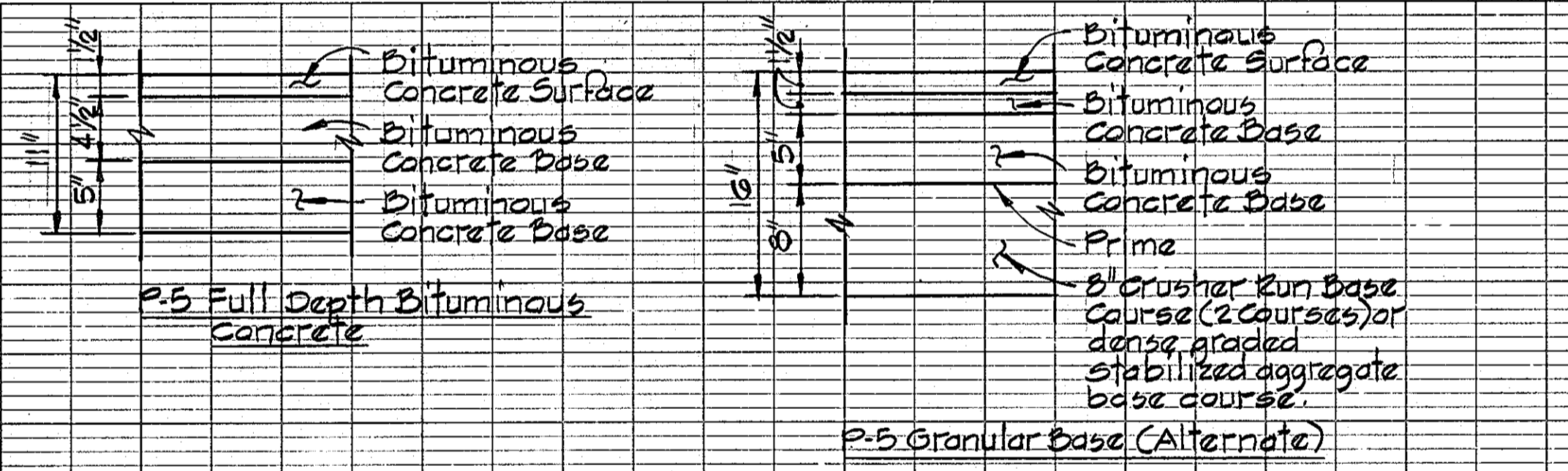
OWNER AND DEVELOPER
COLUMBIA MALL, INC.

PROJECT AREA
TOWN CENTER
SECTION 2 AREA 1 - SECTION 2 AREA 5
RESUB. OF LOT 32 PARCELS 'A', 'B' AND 'C'

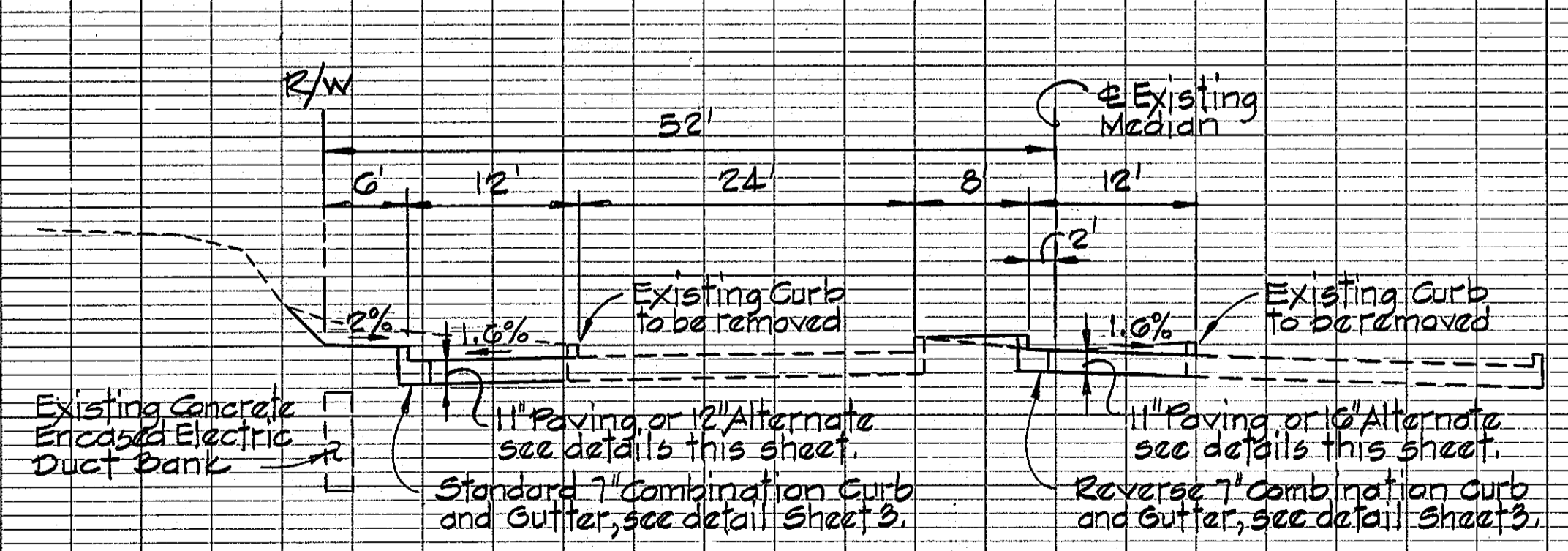
PROJECT TITLE
PLAN AND PROFILE
LITTLE PATUXENT PARKWAY
STA. 219+22.03 TO STA. 225+06.14

SCALE: AS SHOWN DATE:
WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

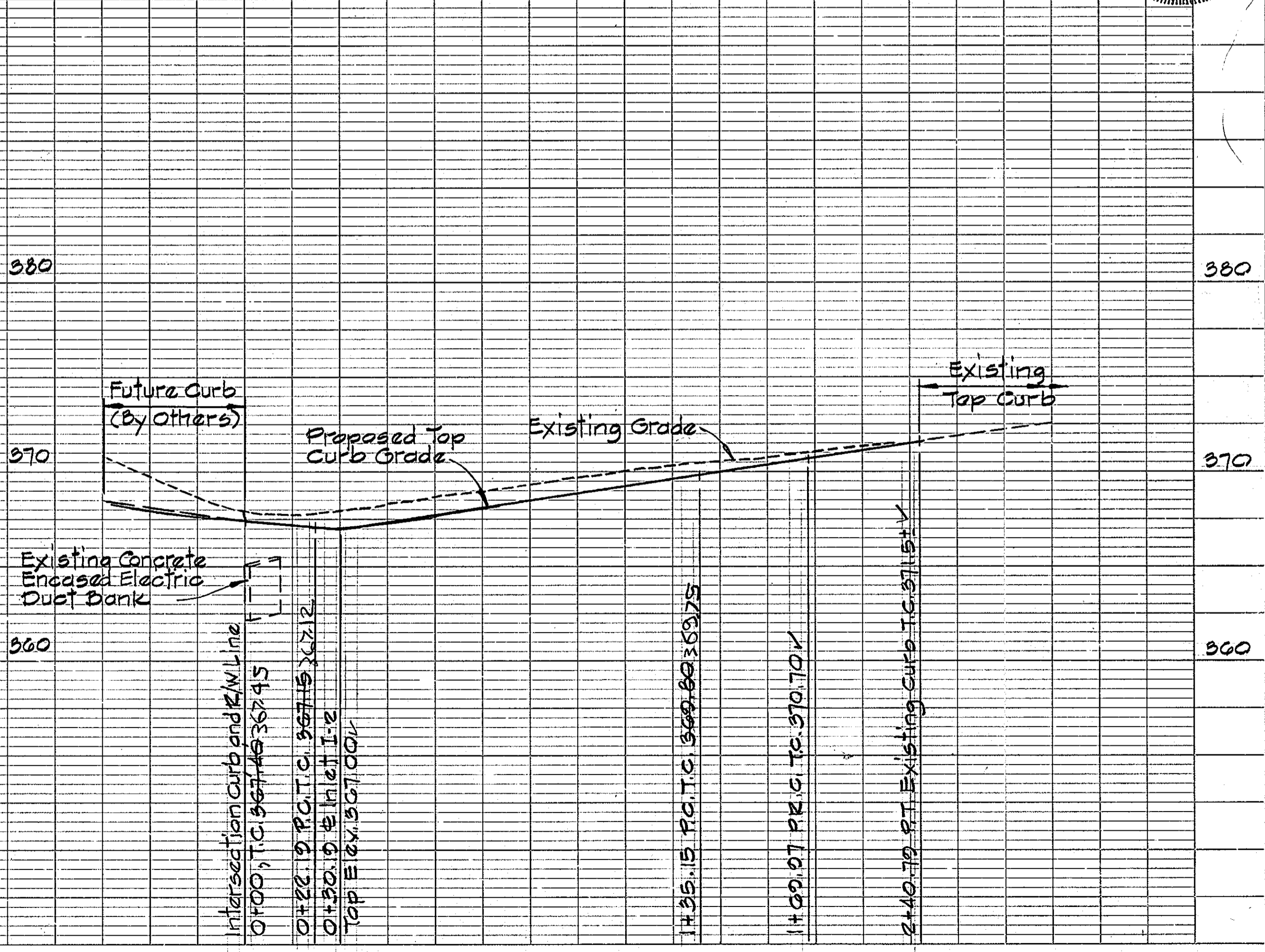
Kenneth A. McCord
KENNETH A. MCCORD
Registered Engineer
No. 1274



TYPICAL PAVING SECTION
No Scale



TYPICAL ROAD SECTION
No Scale
STA. 220+07.54 TO STA. 222+07.54



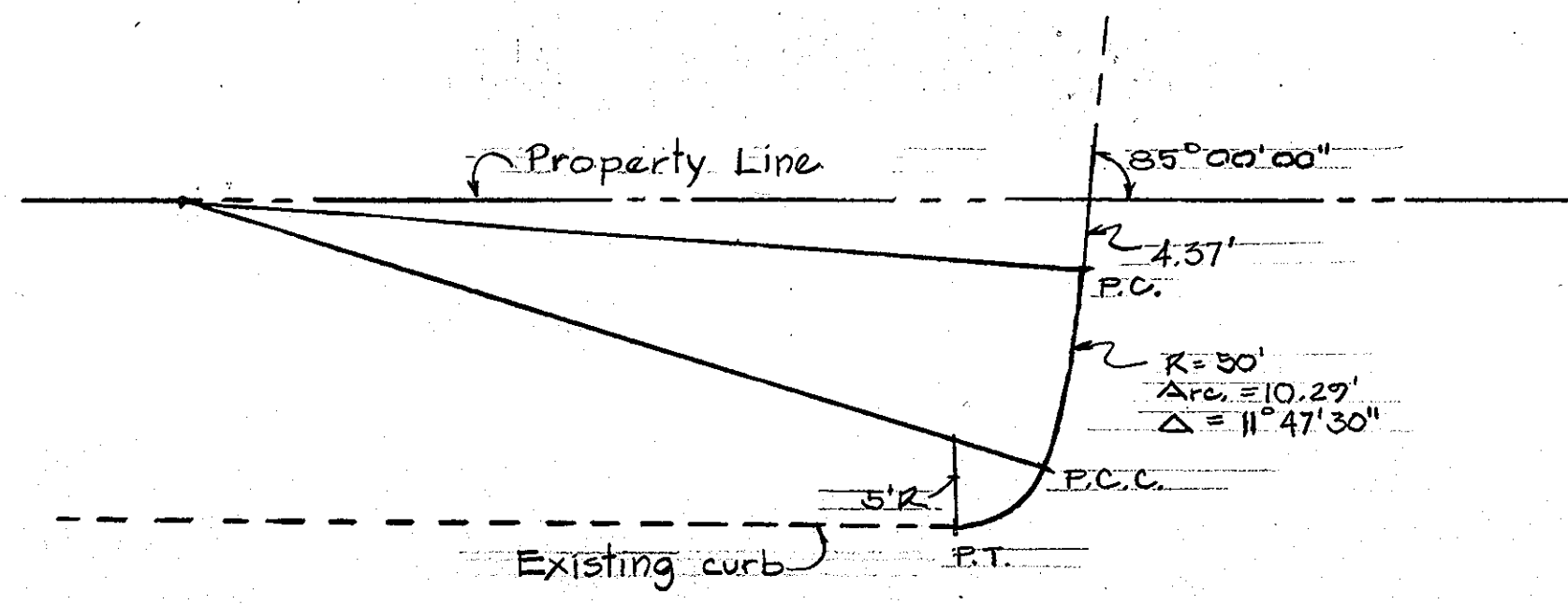
DATE: _____
BY: _____
CHECKED: _____
DATE: _____

PLAN
NOTE BOOK NO. _____

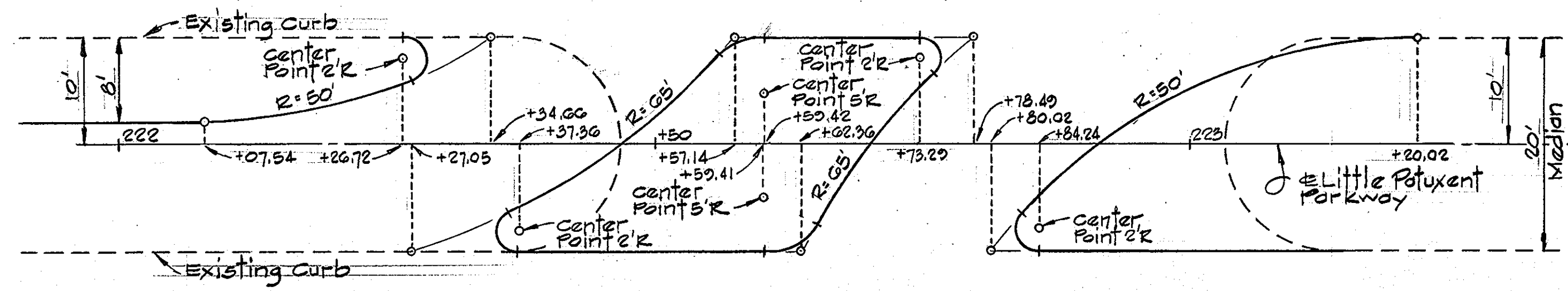
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BY: _____
CHECKED: _____
DATE: _____

PROFILE
NOTE BOOK NO. _____

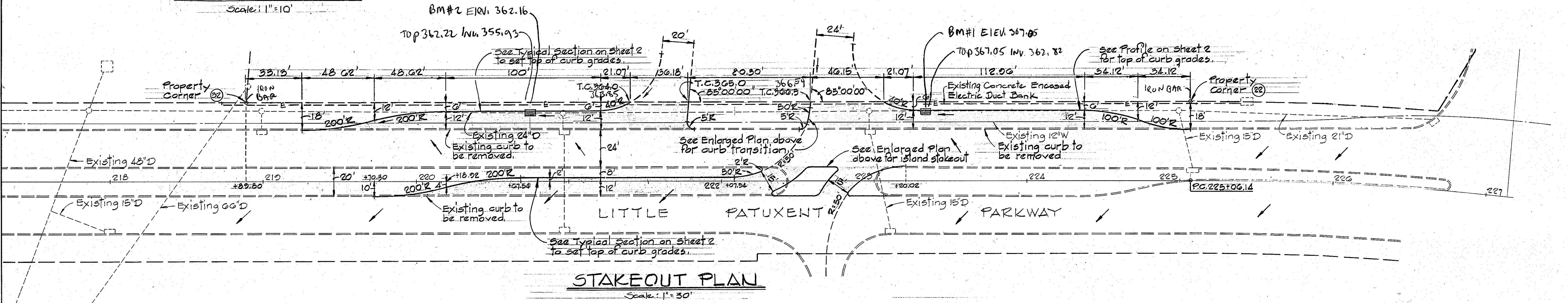
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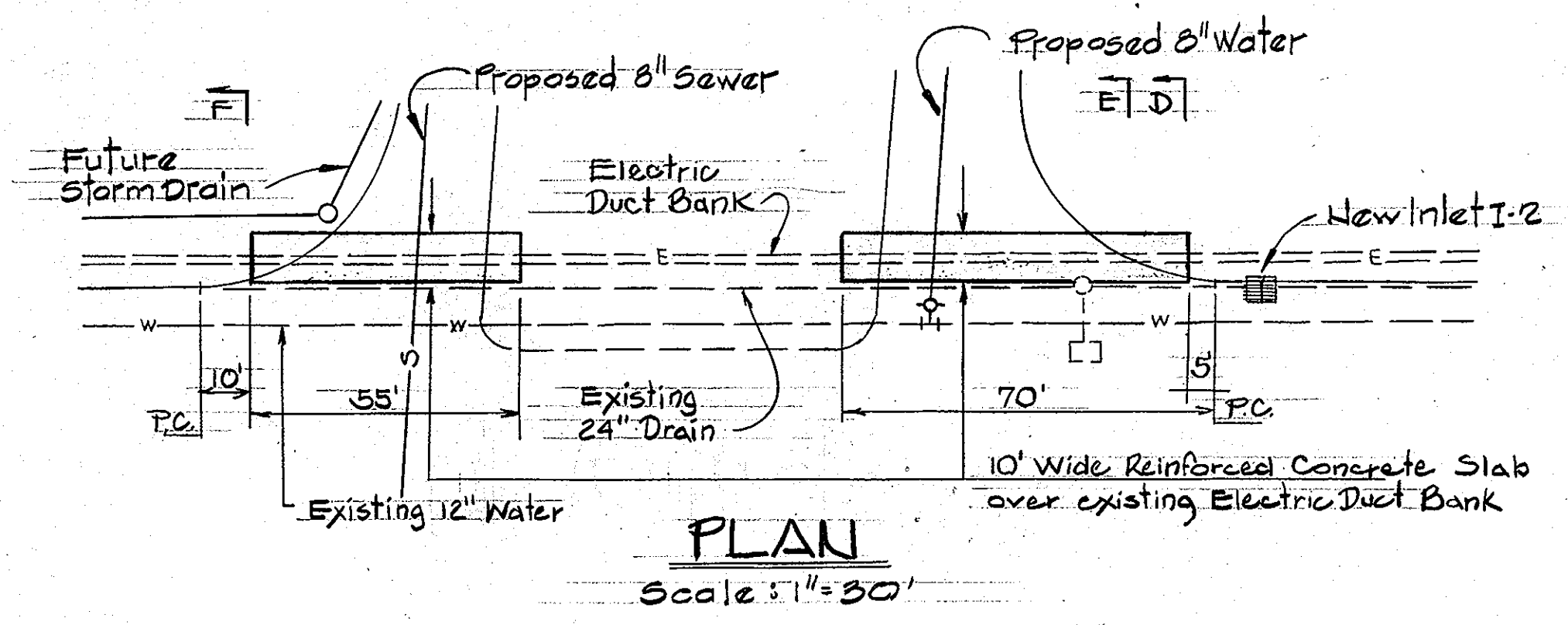
CURB TRANSITION
 Scale: 1" = 10'



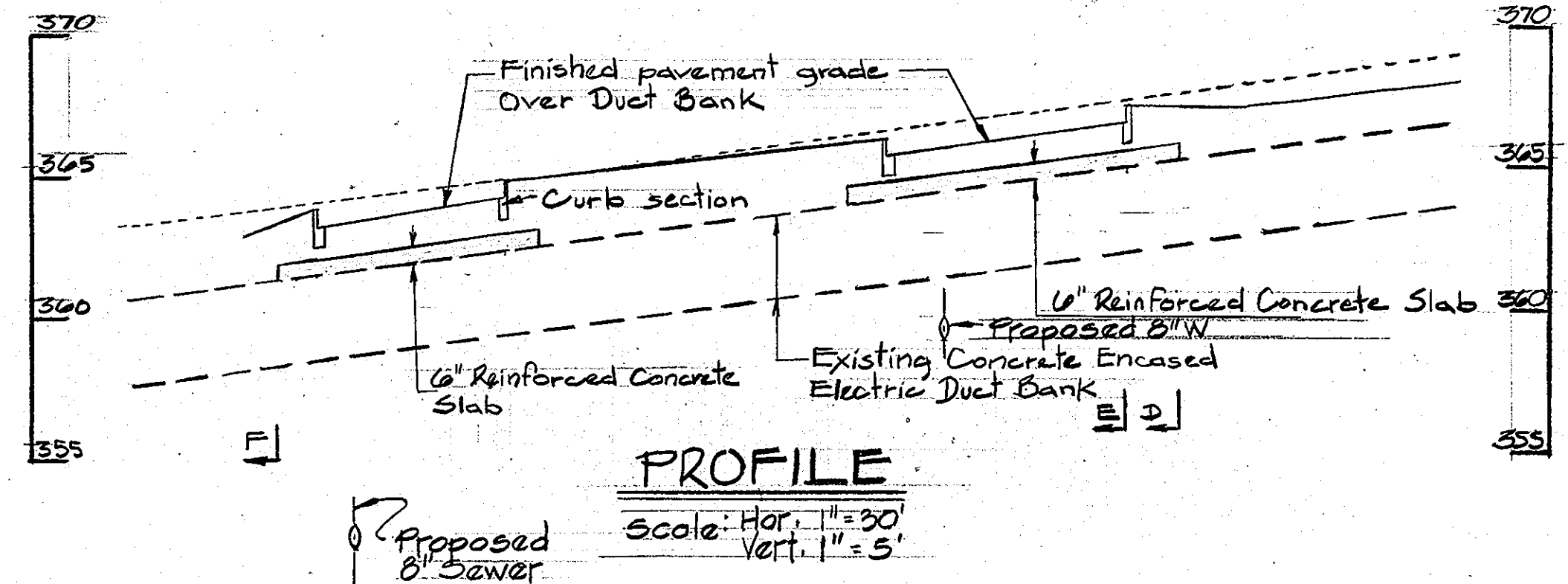
ISLAND STAKEOUT PLAN
 Scale: 1" = 10'



STAKEOUT PLAN
 Scale: 1" = 30'

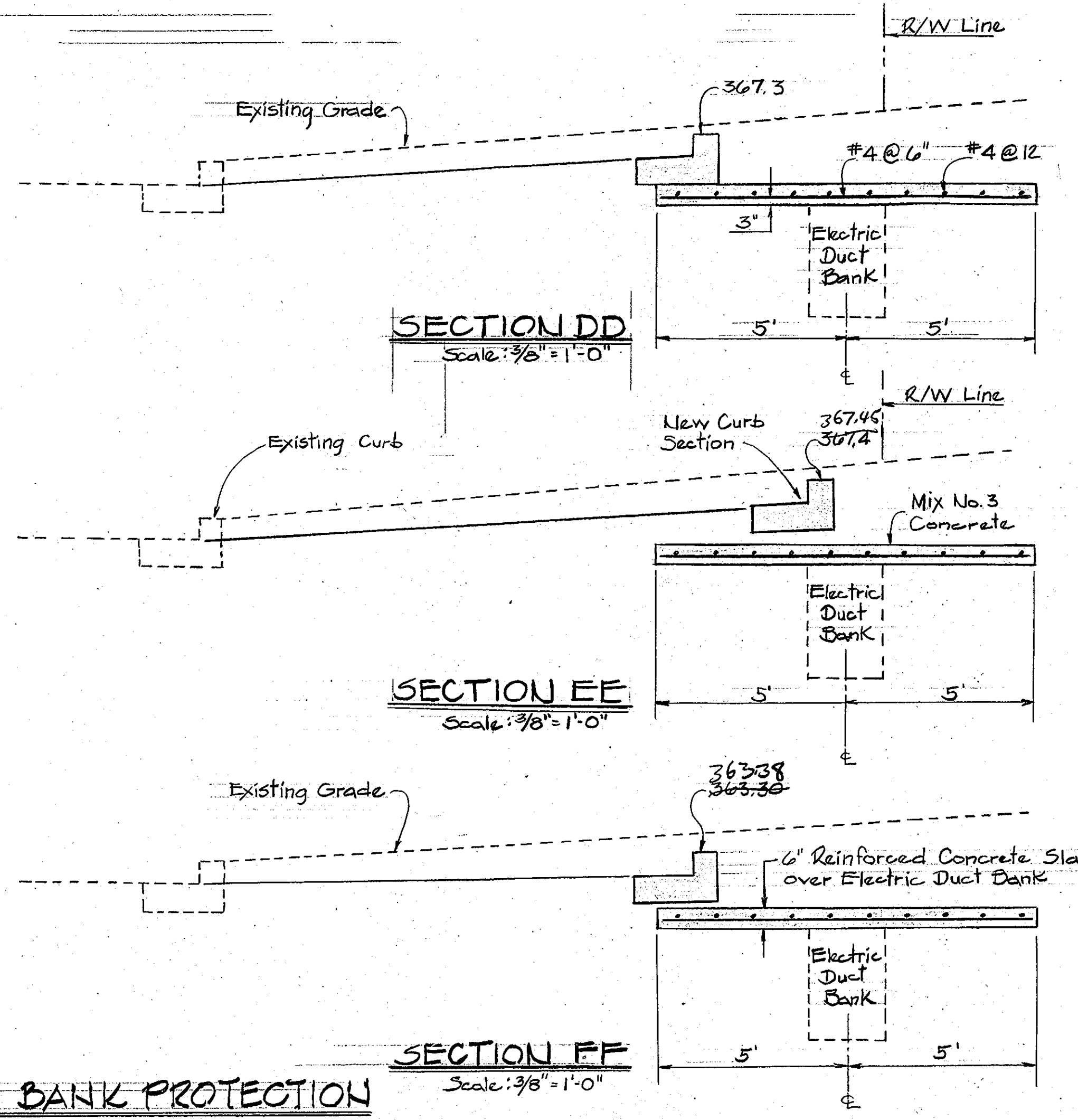


PLAN
 Scale: 1" = 30'



PROFILE
 Scale: Hor. 1" = 30', Vert. 1" = 5'

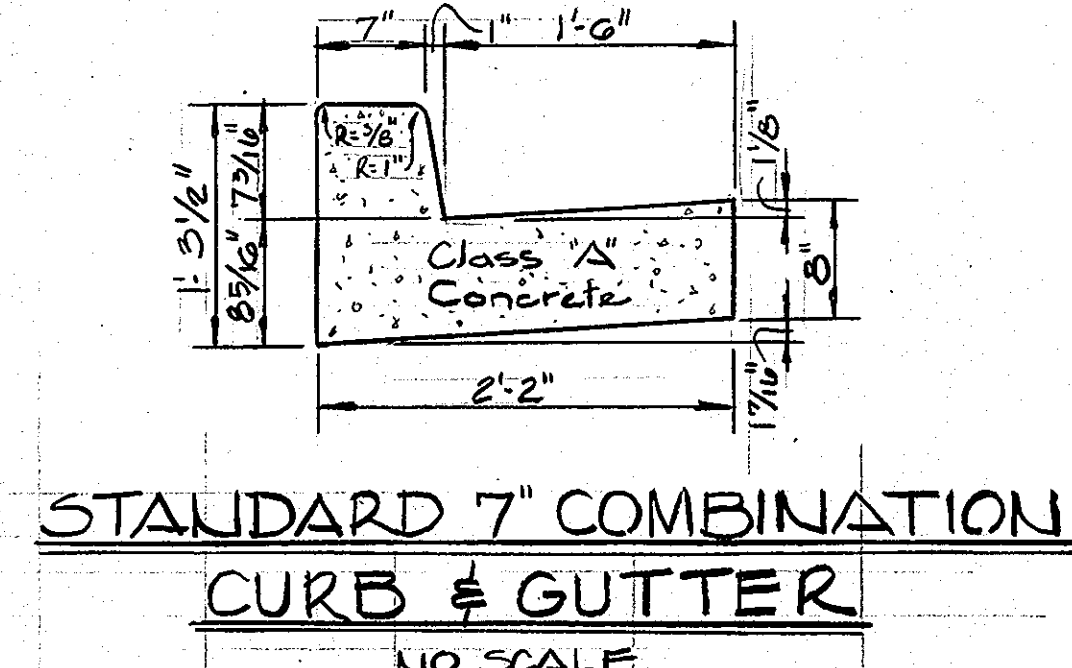
DETAILS-ELECTRIC DUCT BANK PROTECTION



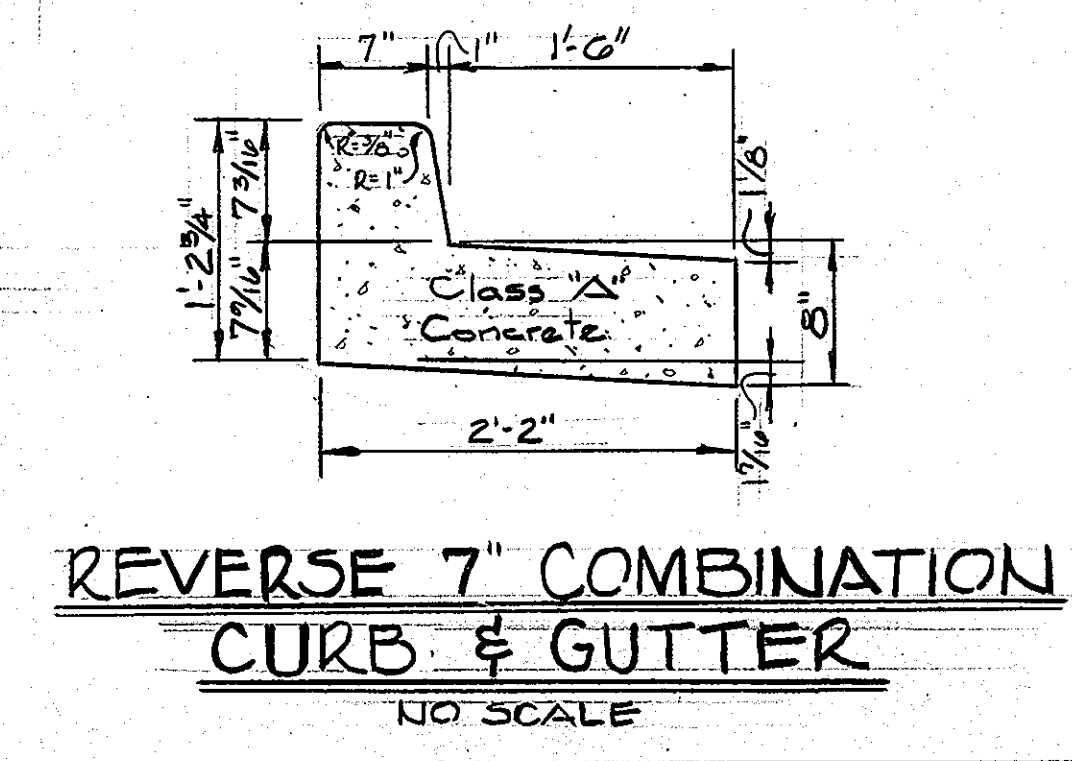
SECTION DD
 Scale: 3/8" = 1'-0"

SECTION EE
 Scale: 3/8" = 1'-0"

SECTION FF
 Scale: 3/8" = 1'-0"

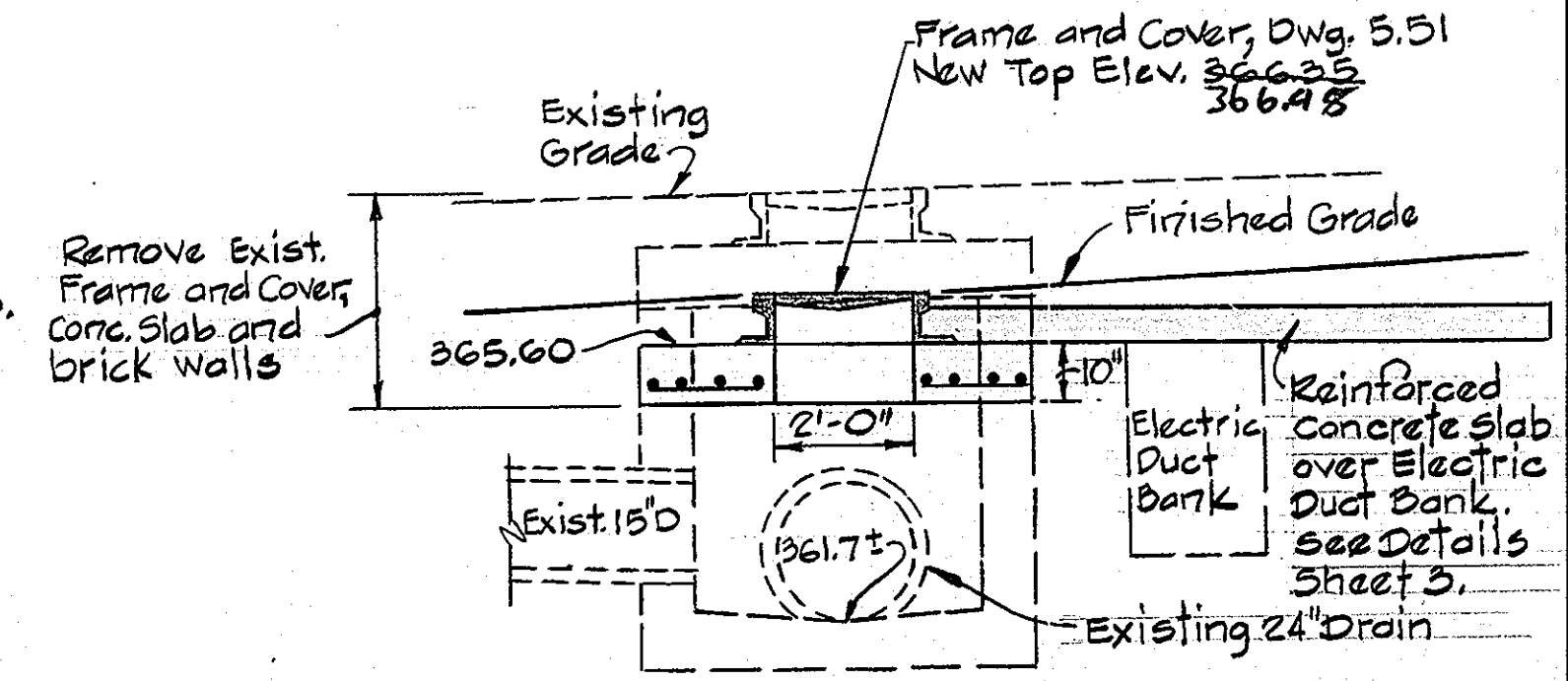
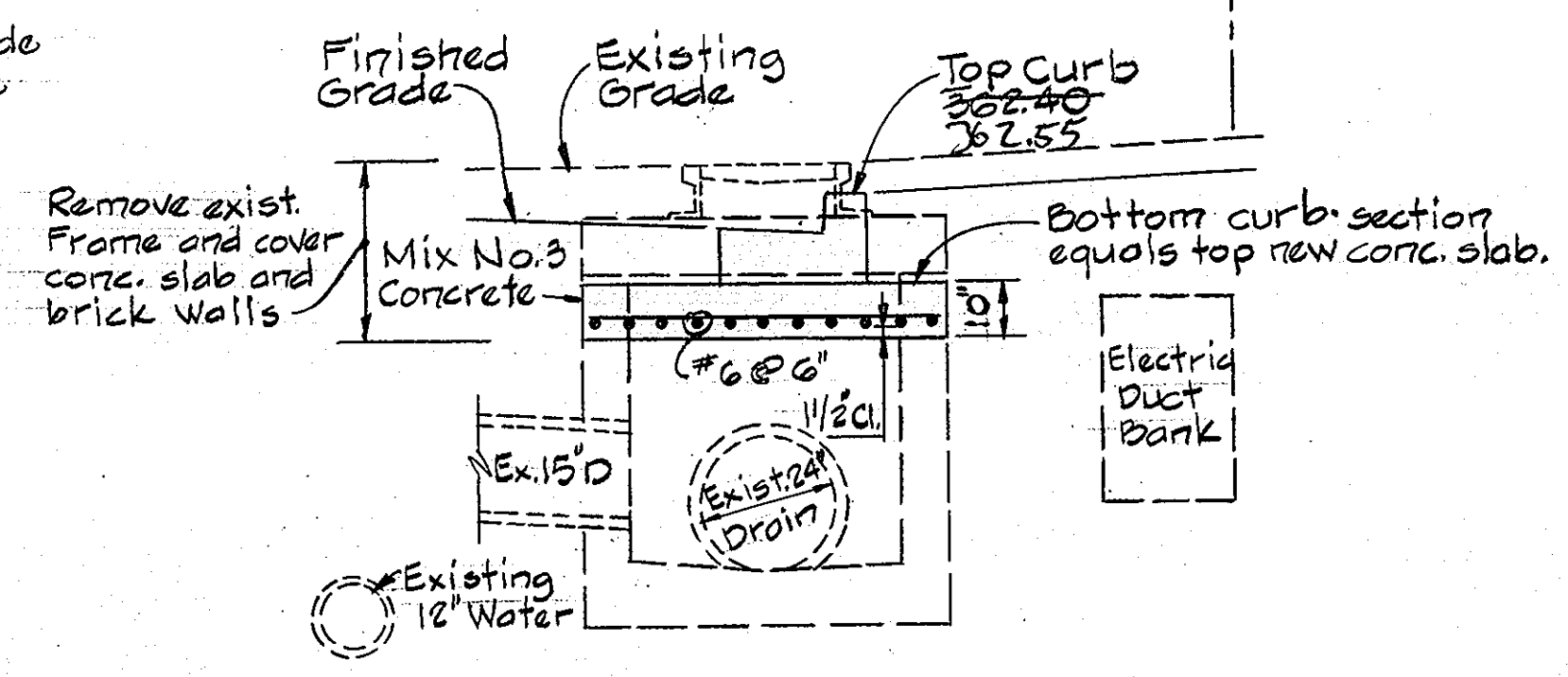
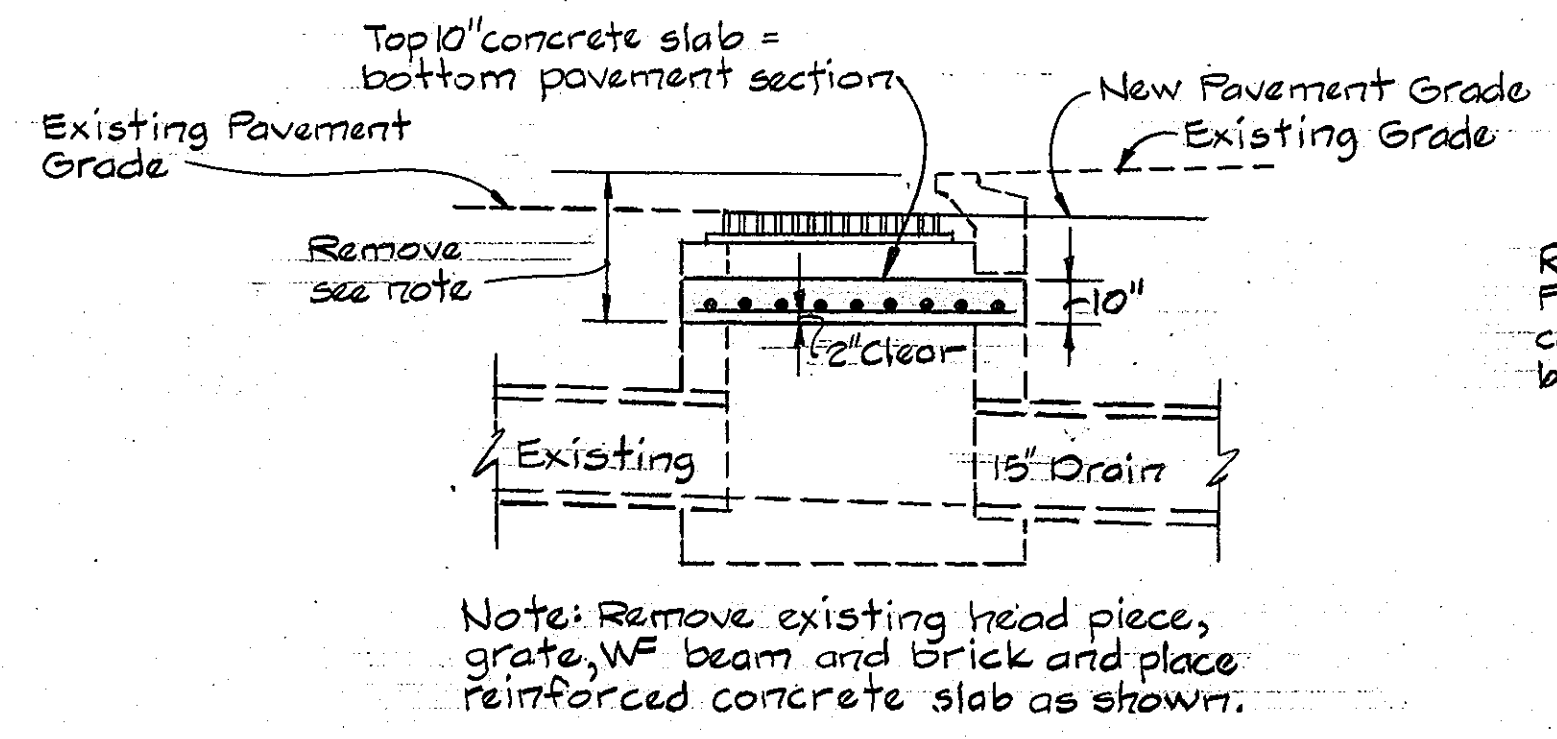
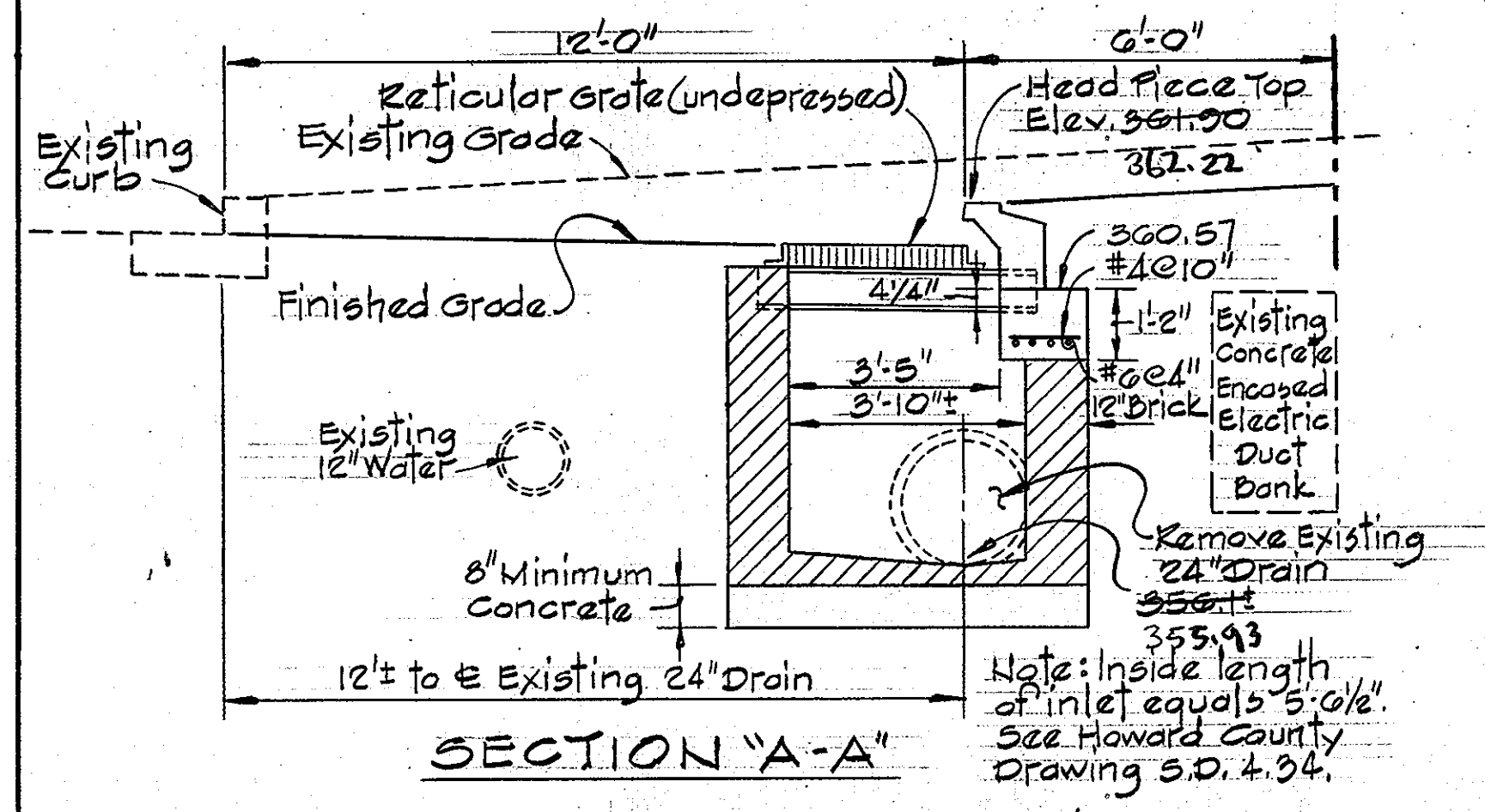
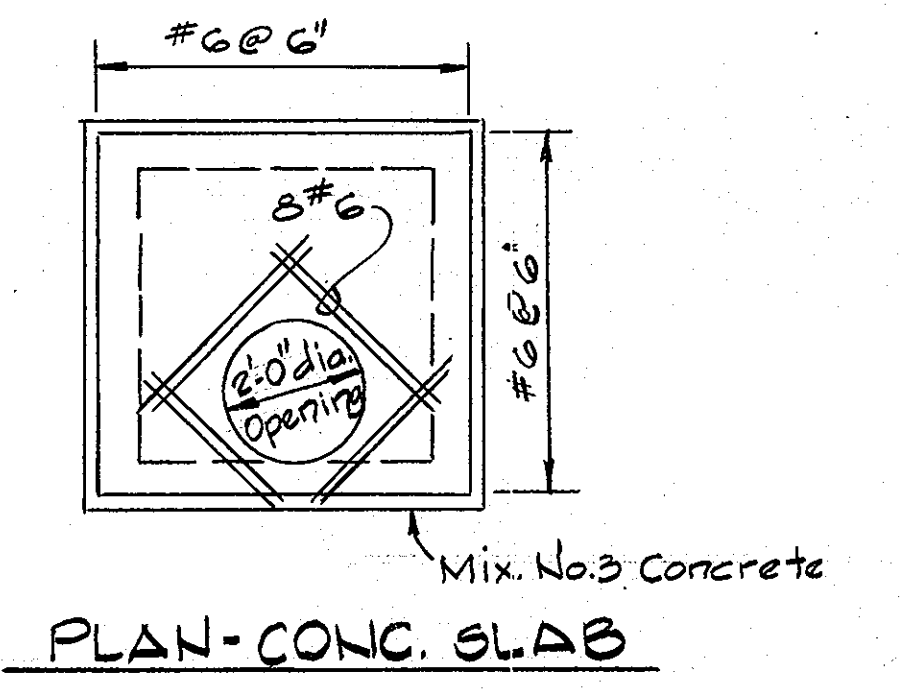
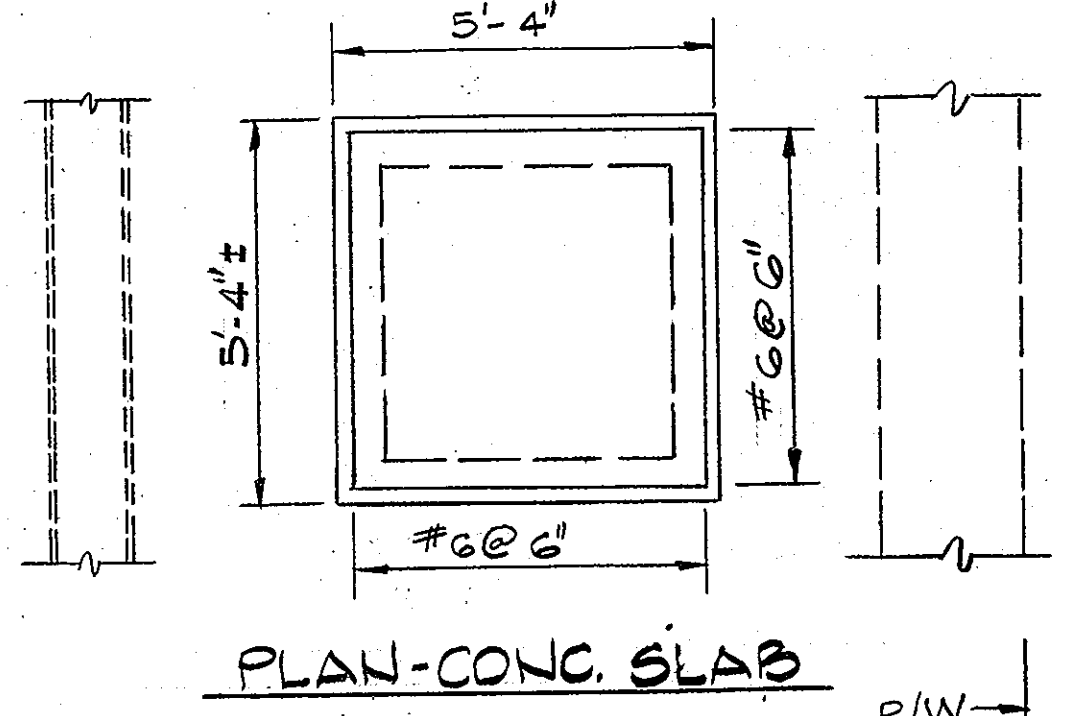
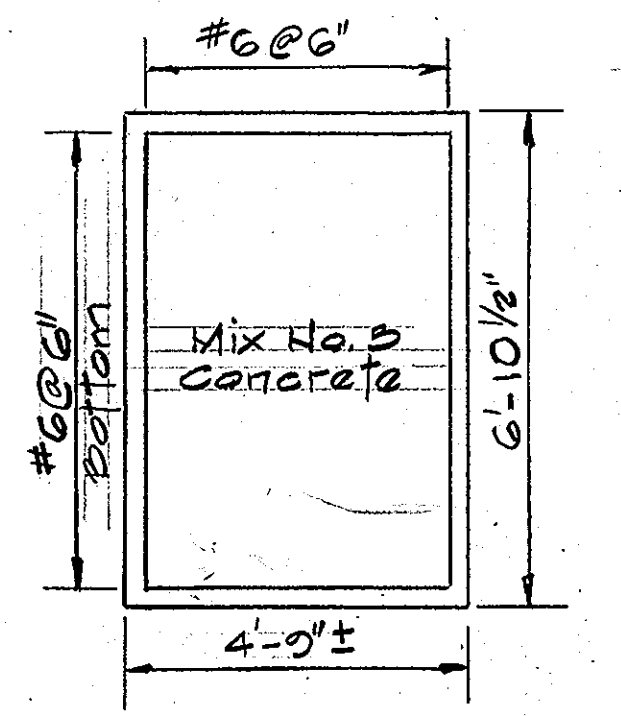
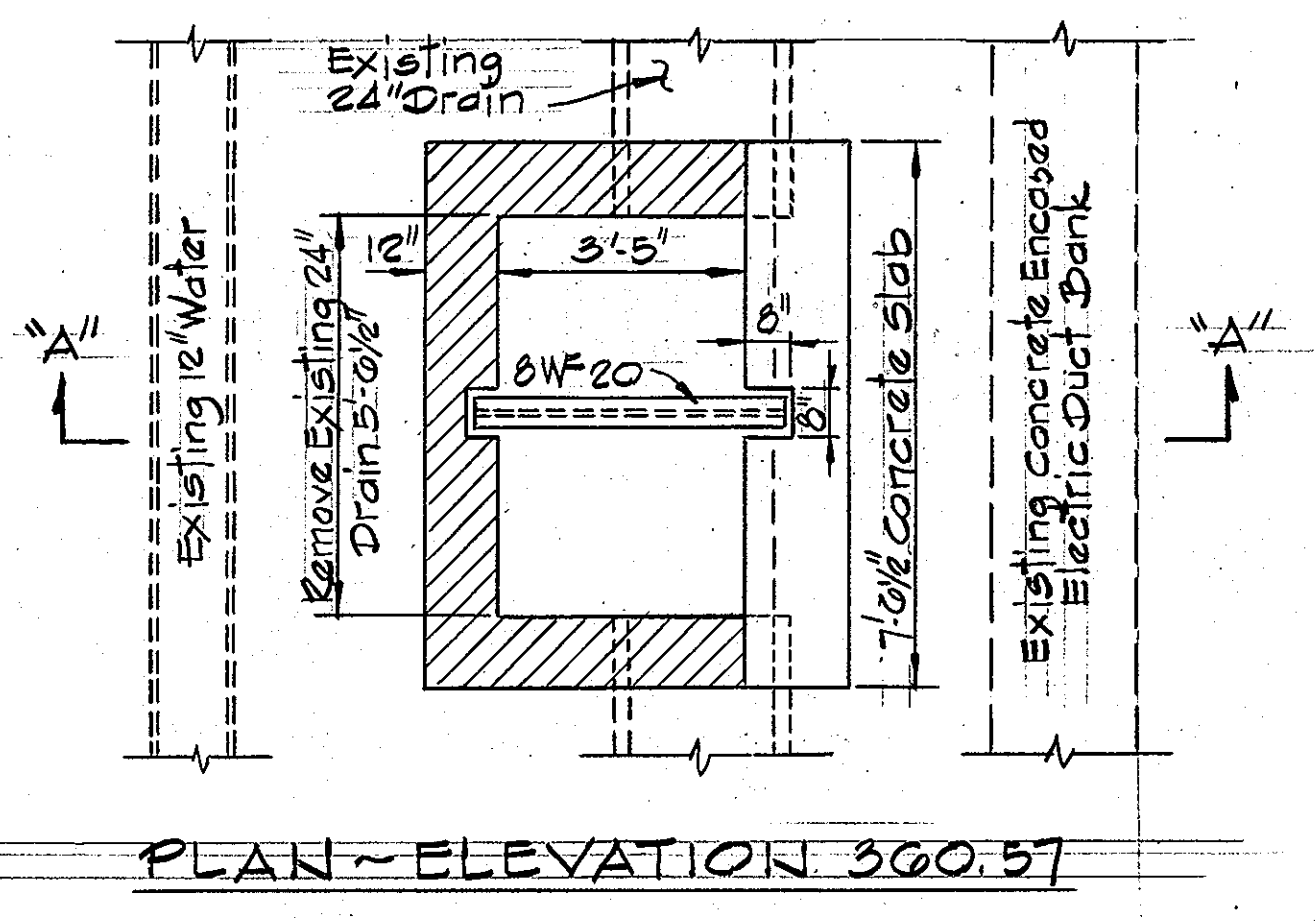


STANDARD 7" COMBINATION CURB & GUTTER
 NO SCALE



REVERSE 7" COMBINATION CURB & GUTTER
 NO SCALE

DATE	NO.	REVISION DESCRIPTION
		COLUMBIA 5th ELECTION DISTRICT HOWARD COUNTY MARYLAND
		OWNER AND DEVELOPER COLUMBIA MALL, INC.
		PROJECT AREA TOWN CENTER SECTION 2 AREA 1 - SECTION 2 AREA 5 RESUB. OF LOT 32 PARCELS 'A', 'B' AND 'C'
		PROJECT TITLE ROAD DETAILS AND SECTIONS
		SCALE: AS SHOWN DATE: / /
		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218
		Kenneth A. McCard Registered Engineer No. 1974

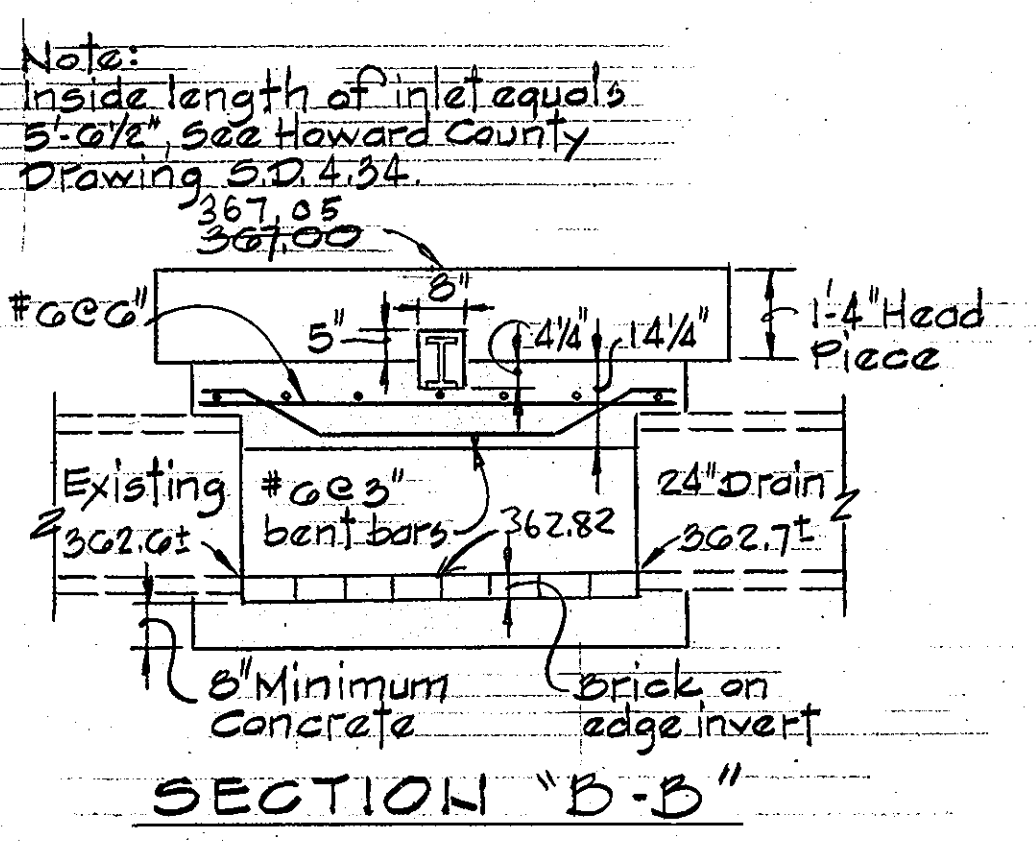
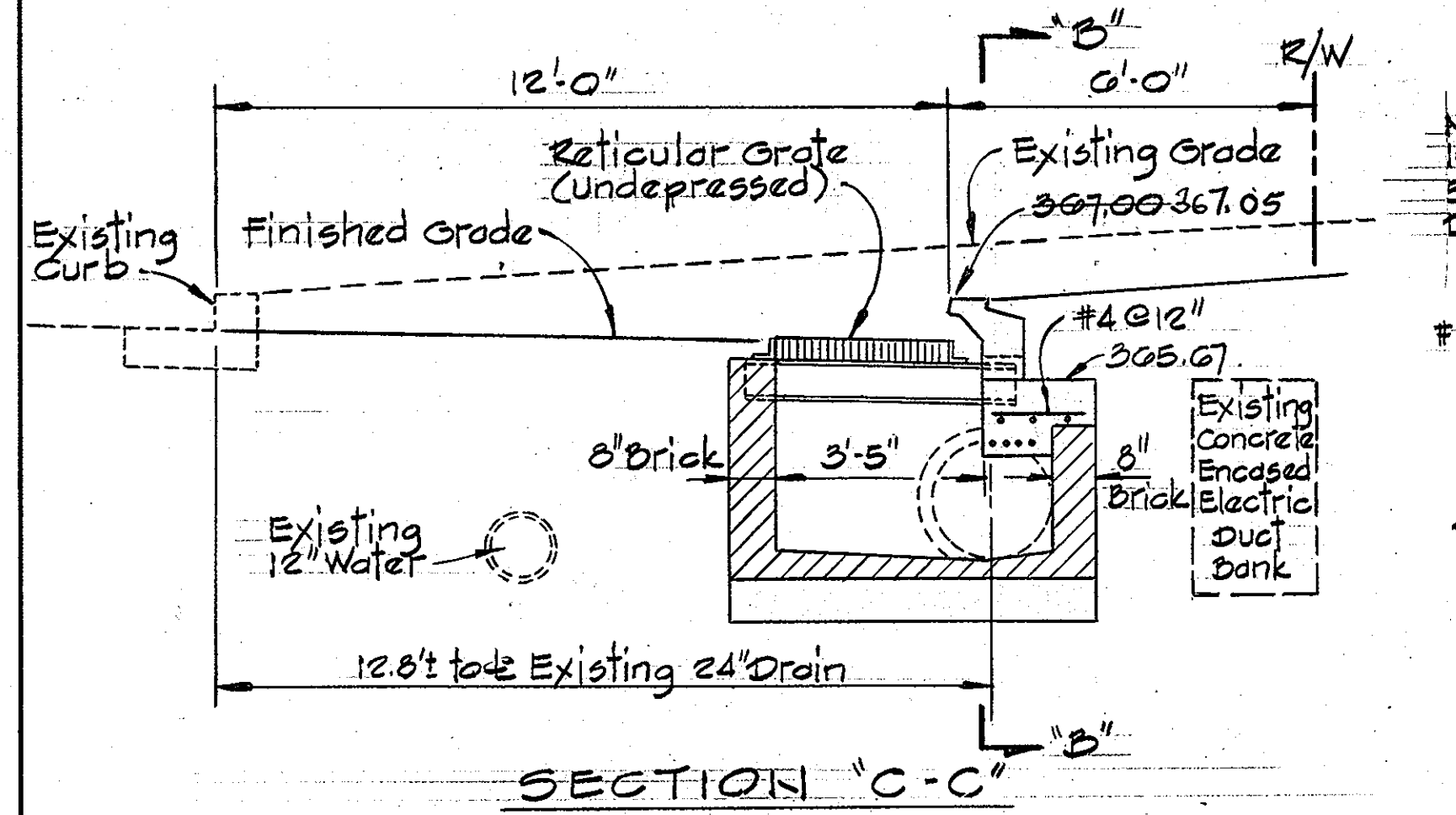
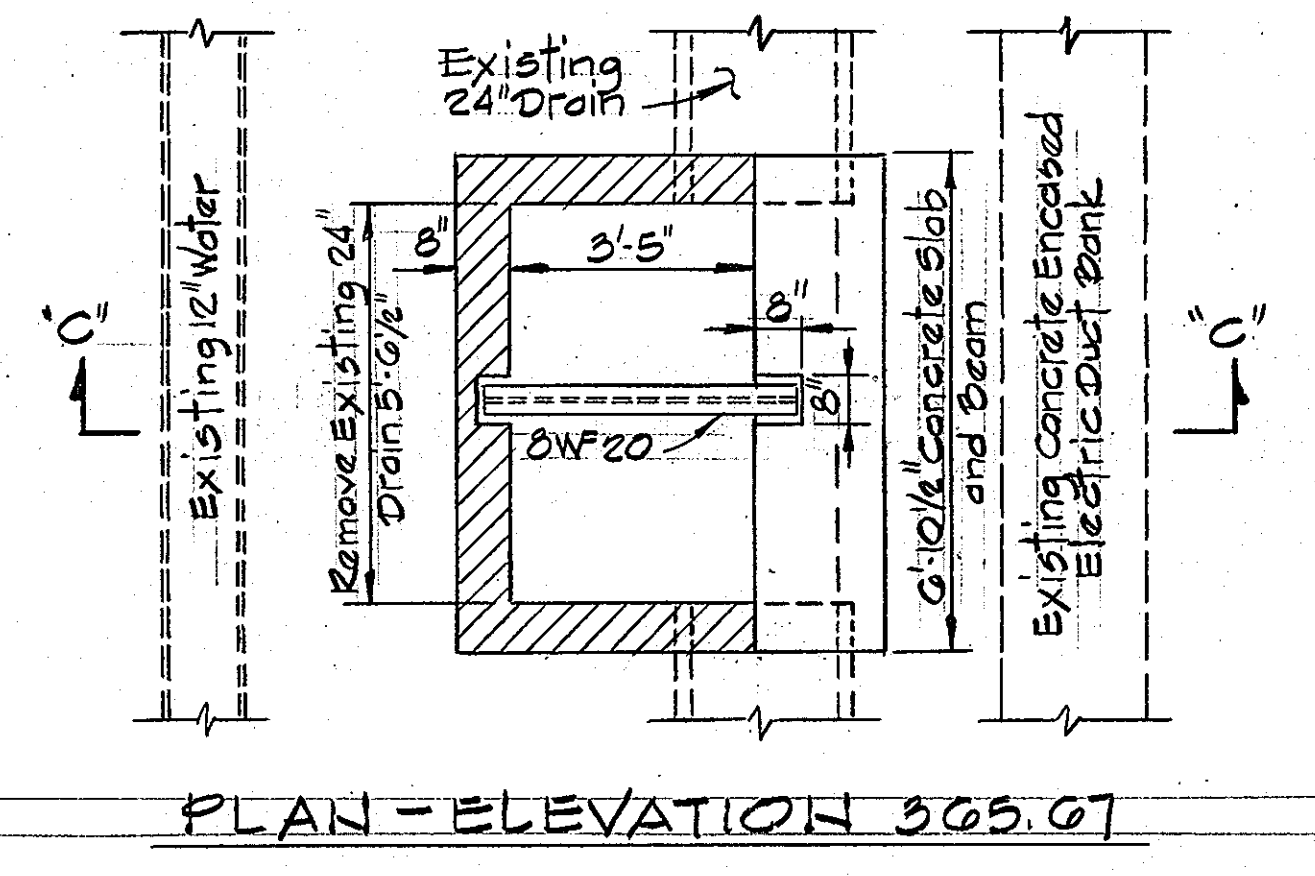


INLET I-1, DOUBLE 'S' COMBINATION INLET (PARALLEL TO CURB)
 Scale: 3/8"=1'-0"

DETAIL-EXISTING DOUBLE S COMBINATION INLETS I-3 AND I-4
 Scale: 3/8"=1'-0"

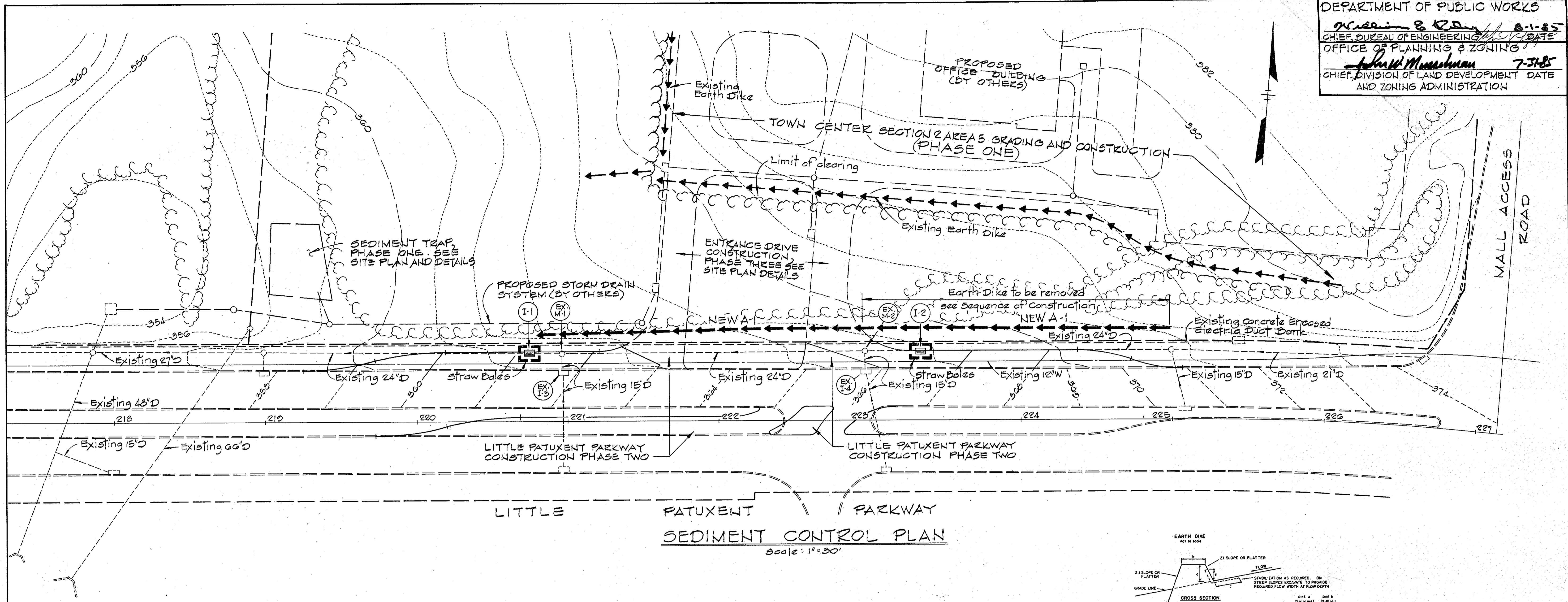
EXISTING MANHOLE - MH-1
 Scale: 3/8"=1'-0"

EXISTING MANHOLE - MH-2
 Scale: 3/8"=1'-0"



INLET I-2, DOUBLE 'S' COMBINATION INLET
 Scale: 3/8"=1'-0"

DATE	NO.	REVISION DESCRIPTION
COLUMBIA 5th ELECTION DISTRICT HOWARD COUNTY MARYLAND		
OWNER AND DEVELOPER COLUMBIA MALL, INC.		
PROJECT AREA TOWN CENTER SECTION 2 AREA 1 - SECTION 2 AREA 5 RESUB. OF LOT 32 PARCELS 'A', 'B' AND 'C'		
PROJECT TITLE STORM DRAIN DETAILS		
SCALE: AS SHOWN		DATE:
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218		
Kenneth A. MacORD Registered Engineer No. 1974		



LITTLE FATUXENT PARKWAY
 SEDIMENT CONTROL PLAN
 Scale: 1" = 30'

- SEDIMENT CONTROL NOTES**
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
 - 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.
 - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
 - All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - 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 (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seedings 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 Control Inspector.
 - Site Analysis:
 Total Area of Site: 0.4 Acres
 Area Disturbed: 0.4 Acres
 Area to be roofed or paved: 0.28 Acres
 Area to be vegetatively stabilized: 0.12 Acres
 Total Cut: 600 Cu. Yds
 Total Fill: 0 Cu. Yds
 Offsite waste/borrow area location: GP-25-70
 - 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 DPW 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.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

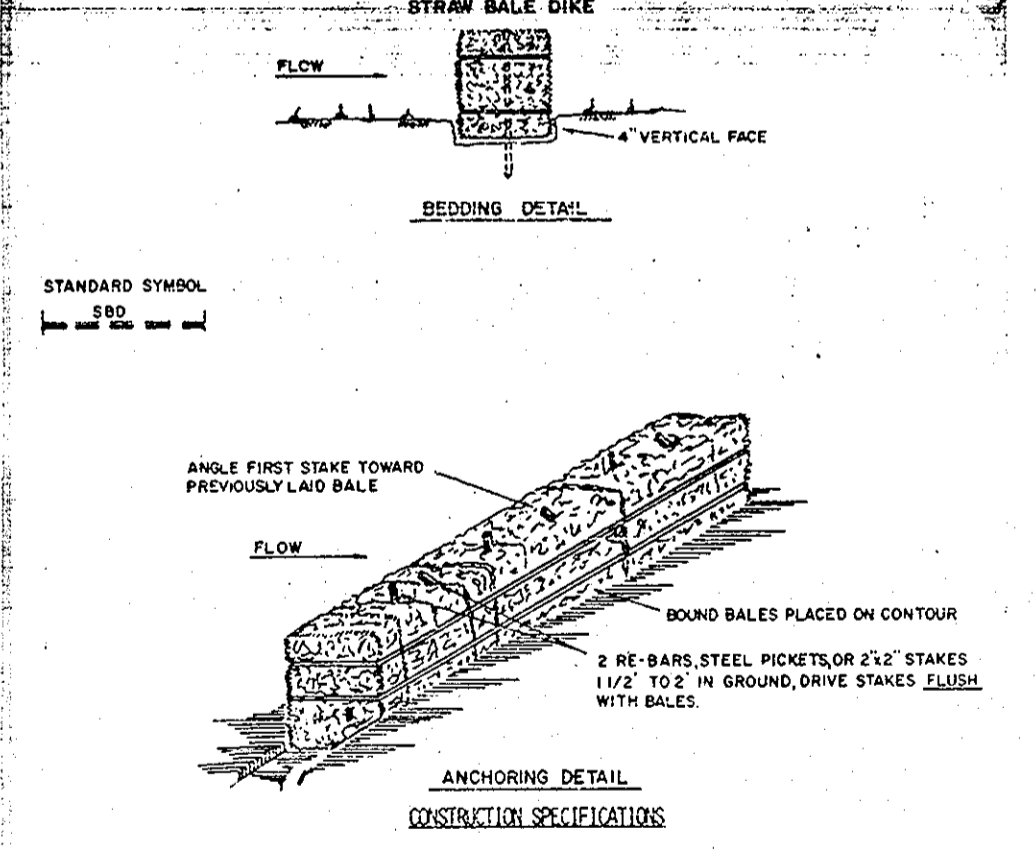
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 36 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 15, seed with 2 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring of use seed.

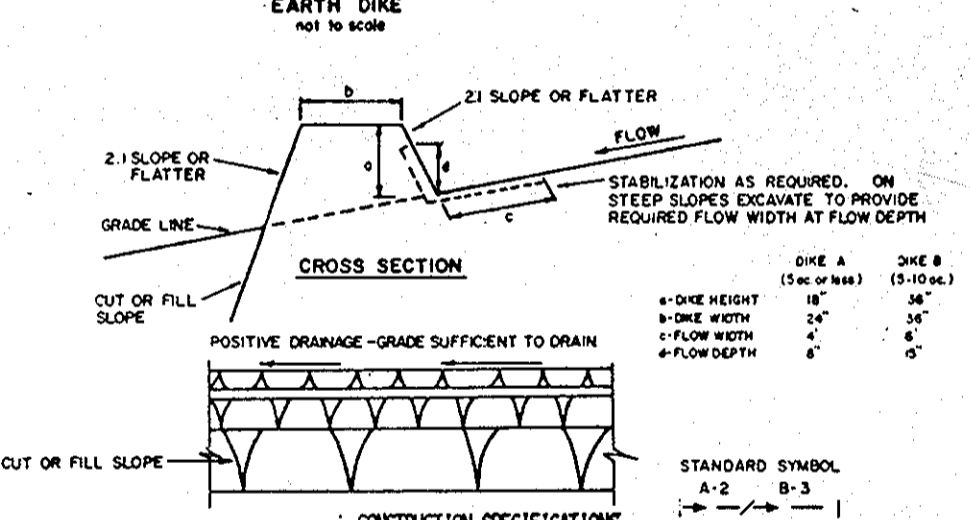
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



- CONSTRUCTION SPECIFICATIONS**
- Bales shall be placed at the toe of a slope or on the contour and in a row with each bally abutting the adjacent bally.
 - Each bale shall be depressed in the soil a minimum of (6) inches, and placed so the bindings are horizontal.
 - Bales shall be securely anchored in place by either two stakes or re-bars driven through the bale. The first stake in each bale shall be driven through the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
 - Inspection shall be provided and repair replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

- SEQUENCE OF CONSTRUCTION**
- Excavate proposed paving and curb areas and use excavated material to construct earth dike to the limits shown. Do not disturb existing trees. Provide temporary seeding, see specifications, (4 days).
 - Place straw bales around inlets I-1 and I-2 at the end of each construction day. (On going)
 - Complete all construction - Drainage structures, concrete slab for electric duct bank, curb, paving etc. (3 weeks)
 - Permanent seed disturbed areas. (1 day)
 - Remove earth dike in areas indicated. (1 day)
 - See Phase Three construction (By others) - Entrance Drive construction.



CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Kenneth A. McCord 4-12-85
 KENNETH A. MCCORD PE 1074 DATE

CERTIFICATION BY THE DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Walter E. Woodford 4-10-85
 WALTER E. WOODFORD DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

James M. Selas 7/30/85
 DATE
 U.S. SOIL CONSERVATION SERVICE

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

APPROVED: Stephen G. Kuhl 7/30/85
 HOWARD S.C.D. DATE

DATE	NO.	REVISION DESCRIPTION
		COLUMBIA 5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND
		OWNER AND DEVELOPER COLUMBIA MALL, INC.
		PROJECT AREA TOWN CENTER SECTION 2 AREA 1 - SECTION 2 AREAS B RESUB. OF LOT 32 PARCELS 'A', 'B' AND 'C'
		PROJECT TITLE SEDIMENT CONTROL PLAN AND DETAILS
		SCALE: AS SHOWN DATE:
		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218
		Kenneth A. McCord KENNETH A. MCCORD Registered Engineer No. 1074