PRESENTATION TO CITY COUNCIL

PAST SITUATION

A GROUP OF RESIDENTS OF MERRYWOOD SUBDIVISION AGREED ON NOVEMBER 5, 1984, TO A PROPOSAL BROUGHT FORWARD BY THE MAYOR AND CITY ENGINEER OF ONESBORO TO PROVIDE RELIEF FROM INADEQUATE SURFACE WATER DRAINAGE IN THE SUBDIVISION.

THE INADEQUATE DRAINAGE WAS CAUSED BY; (1) THE FAILURE OF THE DEVELOPER (JOHN MARCOM) TO INSTALL THE MAPC APPROVED, AND ORDINANCE REQUIRED, DRAINAGE SYSTEM; AND (2) THE CITY'S FAILURE TO PROPERLY INSPECT FOR COMPLIANCE DURING CONSTRUCTION.

THE ACCEPTED PROPOSAL WAS TO PROVIDE THE FOLLOWING:

- AN ADDITIONAL 28,000 FEET OF WATER RETENTION ON LOT 19, WHICH WAS INTENDED TO PROVIDE A BUFFERING EFFECT FOR THE 35 CU. FT./ SEC. EXCESS FLOW THAT THE NETTLETON AVENUE CONDUIT IS UNABLE TO ACCOMMODATE DURING HEAVY RAINS.

- STREET COLLECTORS AND SEWER LINES FOR TWO LOCATIONS ON MERRYWOOD, TO DRAIN INTO THE STORM DITCH OR RETENTION BASIN DIVERSION BOX TO ELIMINATE ACROSS LOT DRAINAGE.

- 36" CONDUIT EXTENDING FROM THE POINT AT LOT 15 AND 16 INTER-SECTION AND ENDING AT THE NORTH LINE OF LOT 17. THIS WORK IS NEAR COMPLETION EXCEPT FOR SOME DITCH REALIGNMENT.

- ALL PLANS WERE TO BE BASED ON CERTIFIED AND COMPETENT ENGINEER-ING WORK PROVIDED BY THE DEVELOPER.

COVERAGE OF WORK AND MATERIALS WAS PROVIDED IN THE CITY'S PROPOSAL AS FOLLOWS:

1. JOHN MARCOM WOULD DEED TO THE CITY AN ADEQUATE PARCEL OF LAND FOR CONSTRUCTION OF A RETENTION BASIN FOR THE ADDITIONAL 28,000 FT. HOLDUP VOLUME. WE BELIEVE THIS HAS BEEN DONE.

2. THE DEVELOPER WOULD PROVIDE NO LESS THAN $20,000 FOR PURCHASE OF MATERIALS FOR THE PROPOSAL. FROM WHAT WE UNDERSTAND, THIS HAS ALSO BEEN ACCOMPLISHED.

3. THE CITY OF JONESBORO WOULD PROVIDE THE LABOR AND EQUIPMENT TO PERFORM THE WORK.

CURRENT SITUATION

WORK HAS BEGUN IN EXCAVATING THE RETENTION BASIN ON THE PARCEL DEEDED TO THE CITY, BUT THE CITY'S INTENT HAS CHANGED FROM THE ORIGINAL AGREEMENT.

THE CITY ENGINEER AND MAYOR HAVE CHOSEN NOT TO TRANSPORT THE REQUIRED EARTH AWAY FROM THE RETENTION BASIN AREA, AND ARE PRESENTLY RAISING THE LEVEL OF LOT 19.

THE PROBLEM IS AS FOLLOWS:

LOT 19 HAS BEEN, IN THE PAST DURING HEAVY RAINS, APPROXIMATELY 1 1/2 TO 2 1/2 FEET UNDER WATER AND HAS ALWAYS BEEN A NATURAL RETENTION AREA FOR THE WATER FLOW THAT THE NETTLETON CONDUIT COULD NOT HANDLE.

OUR AND YOUR EFFORT IN PART LAST NOVEMBER WAS TO CORRECT THIS SITUATION. BUT TO TAKE EARTH FROM ONE POINT (THE BASIN) AND DISPOSIT IT IN AN ADJACENT AREA THAT FLOODS TO THE SAME LEVELS, DOES ABSOLUTELY NOTHING TO REDUCE THE FLOOD THREAT TO THE AREA HOMES, MUCH LESS INCREASE WATER RETENTION CAPABILITY.

ALSO, TO RAISE THE GROUND LEVEL FOR FUTURE HOUSES AT THE EXPENSE OF EXISTING HOMES IS NOT, WE DON'T BELIEVE, IN ANYONES BEST INTEREST.

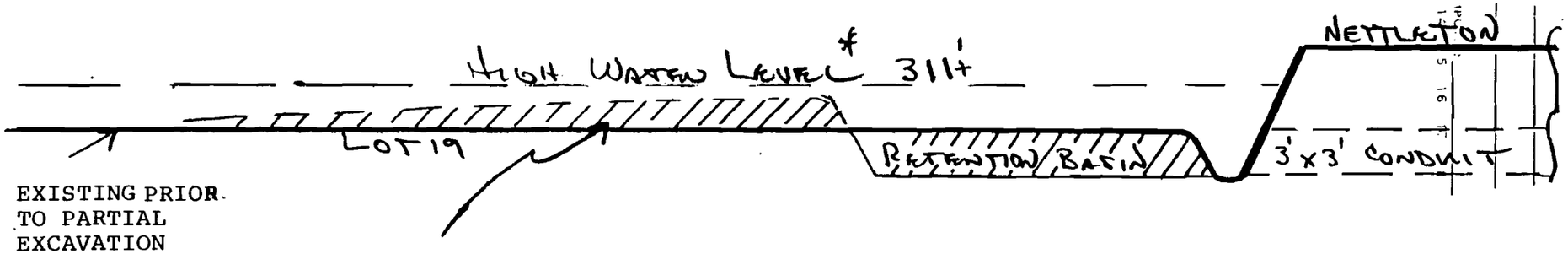
TO DO THIS IS INTERPRETED TO BE A VIOLATION OF CITY ORDINANCE 21-15 E II.

ATTACHED YOU WILL FIND AN ILLUSTRATION OF THE PROBLEM.

WE ASK THE CITY COUNCIL TO TAKE ACTION IN INSURING THE PAST AGREEMENT WITH THE CITY COUNCIL, MAYOR AND ENGINEER BE HONORED AND THAT THE ACTION HELPS CORRECT, ONCE AND FOR ALL, THE FAILURES OF THE DEVELOPER AND THE CITY IN ALLOWING THE INADEQUATE DRAINAGE SITUATION TO BE CREATED AND OBVIOUSLY PERPETUATED AS IT IS TODAY.

WE ALSO PROPOSE THAT THE CITY ESTABLISH A PROCEDURE OR VEHICLE BY WHICH SUBDIVISIONS UNDER DEVELOPMENT, NOW AND IN THE FUTURE, CAN BE AUDITED AND DIRECTED TOWARD COMPLIANCE WITH ALL ORDINANCE REQUIREMENTS, WITHOUT EXCEPTION.

* NEAREST HOUSE FINISHED FLOOR LEVEL - 310.53'

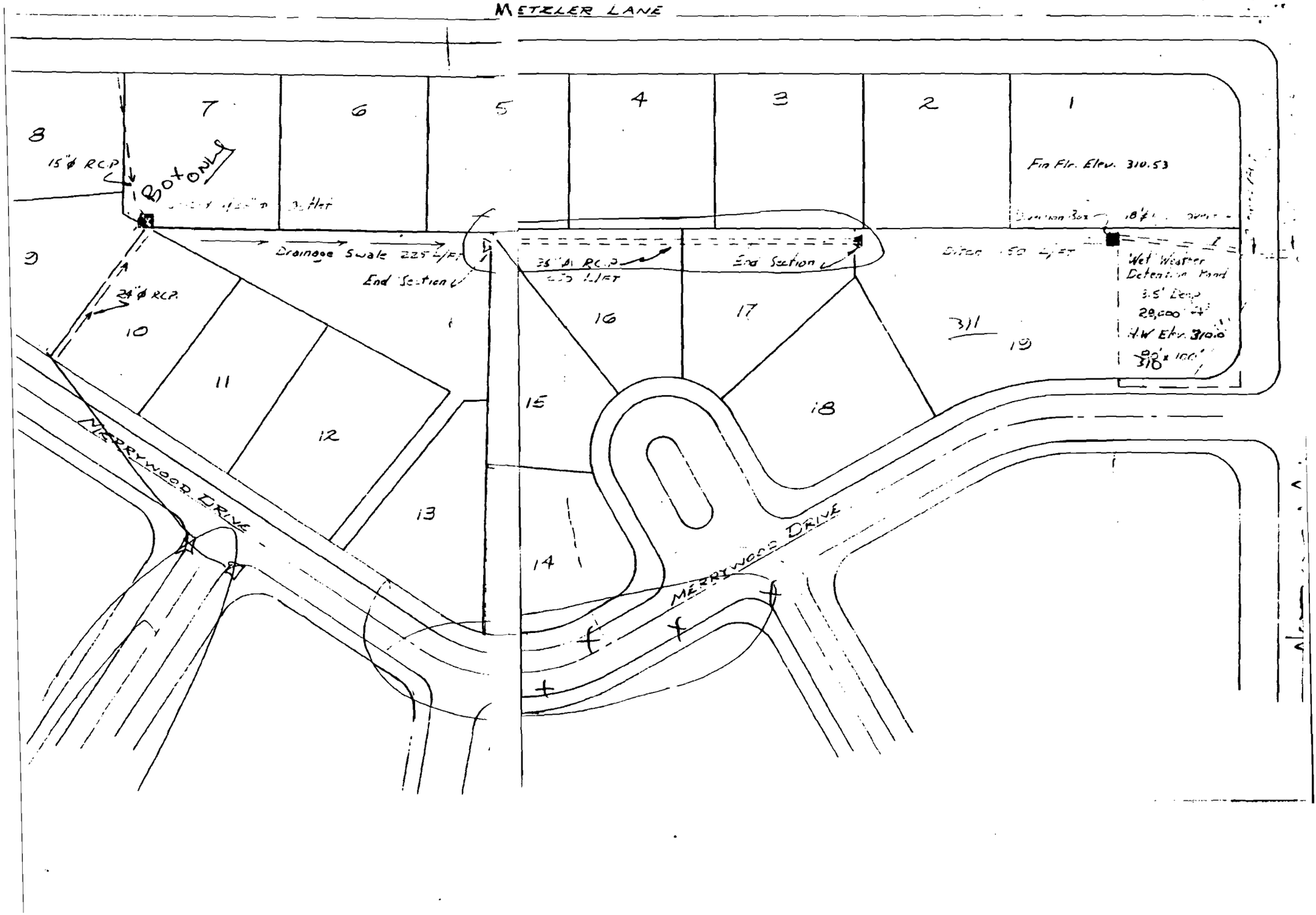


EXISTING PRIOR TO PARTIAL EXCAVATION

- FILL FROM RETENTION BASIN BEING USED TO RAISE LOT 19 LEVEL - EQUAL VOLUME OF EARTH

- NO IMPROVEMENT IN HOLD-UP TIME

THEREFORE: THE FILL DIRT PLUS POTENTIAL HOME FOUNDATIONS WILL WORSEN THREAT, NOT IMPROVE.


METZLER LANE
7
6
5
4
3
2
1
8
9
10
11
12
13
14
15
16
17
18
19
15" ø RCP
Fin Flr. Elev. 310.53
Drainage Swale 225 L/FT
End Section
24" ø RCP
Wet Weather Detention Pond
3.5' Deep
28,000 SF
HW Elev. 310.0
311
310
MERRYWOOD DRIVE
MERRYWOOD DRIVE

10-29-1984

MERRYWOOD DRAINAGE

3 x 3

35 Ac. Drainage Area
c = .6
i = 5
Q = 105 Total Estimated Flow

3 x 3 Box W.P. = 8.60 (Under Nettleton Ave)
a = 8.49
i = 1.013
r 2/3 = 1.0086
s = .005
$s^{1/2}$ = 0.0707

$$Q = 8.49 \times \frac{1.486}{0.015} \times 1.0086 \times 0.0707$$

Q = 60 Q under 1.5 head 70 CFS

Reqd. Q 45 Balance 35 " Balance

Proposed Wet Weather Retention Pond 28,000 Cu. Ft.

Volume of Water calculated fromx-section of the ground using

H. W. Elevation of 311.0 22,000 Cu Ft

Remainder of 1,009 - 22 M

- City Does not want 4x4?

35
60
2.1 cu/min

≈ 10 min