9-7-78 CHELWOOD PK

+101,5 + 108.2+ FLEV. ICIA 101.5 QUARUPLEX 151 FL. ELEV. 102.5 34.5 1.001 101.5 S CHEST STATE I V TEL MALK SHOPL MANCONY 1'010.B ELEV.101.E (6.101) (101.8) G SPACES -18 (101.3) (01.5) BLACKTOP & STRIPPINA 98,8 100.4 PER CITY OF ALRUA SPRICE 30 60.0 1 25 14 \$ 96,2910 97.9973 97.03

CHELWOOD PARK BUYD ME.

20VF:1,:30°C,

SITE PLAIN
LOT: "Z
REK: "IO
GRANDVIEW HEIGHTS

DRAWH BY: P.W. ROBINSON 8/6/18





138 Oldwood Park Blid 118

SITE DESCRIPTION LOT: 2 BLK: *10	
ADD: GDATE VIEW GGTS.	
DRAINAGE BUILDINGS 1574. BUILDINGS 1574. WALKS & ELACKTOP 3244. USING RATIONAL FOUNDLA GECIA TOP SOIL & PLANTING 4042- VHERE A = ACRE AREA C: 35 (.35)(7.0)(.1901) = .4657	T2, 0561 1
Q + (B5 X 7.0 XACRE) + CFS (UNDEY.)	
COMPOSITE FACTOR "C" BUILDINGS, BLACKTOR & YALKS = .95 x AC =	(8) = .012.4 (8) = .0225 .1249 .1701
DEVELOPED SITE G = (C'X7.0XACRE) = CFS (DEV) MINUS CFS (UNDEY) TOTAL CFS RETAINAGE .465 .472	ē
RETAINAGE AREA JISING 2.5" FOR A GHR-ICOYR STORM TOTAL YOUME OF RUNOFF : 8.5" X AREA FT 2 X RUNOFF COEF. XIZ = FT3 R	RETENTION
(2.5/.66)(\$280) = 13662 = 1138.5 ft 2 persone.	- 11 EIT
DPEN SPACE # PARKING REQ. TOTAL SITE AREA. BALCONY AREA CREDIT. TOTAL USABLE SPACE \$440 TOTAL DIACKTOP PA	AREA 1553
OPEN SPACE REQ PARKING REQ TOTAL COYERED NO TYPE FT3 FT3 PERPATH SPACES A ZBR 250 = 1000 C 11/2 = 6 FOND 4 S	264 C467
TOTAL CON TOTAL 6 SPACES	579
TOTAL EXCESS AREA	72 9 7

UKHFI by Bouns

STANDARD REQUIREMENTS FOR DRAINAGE PLANS

PURPOSE: The increasing volume of drainage plans submitted to this office makes it mandatory that such plans be standardized as much as possible in order to expedite reviews. This standardization is as much to the advantage of the developer and engineer as it is to the Hydrology Section which enforces the AMAFCA RES. 72-2. For parcels of land less than 20,000 sq. ft. in surface area no formal drainage report is required; the construction plans need only to include the (standard form attached herein and the site drainage plan. Developers for larger parcels of land will have to submit a formal drainage report as specified in the Resolution.

check list ?

(A)

RUNOFF PONDING: In most instances on site ponding is mandatory, with dispersal in the ground of the excess runoff arising from newly created impervious surfaces. The only exception allowed, is for those properties adjacent to a (3) deversion channel which was designed for higher standard than 100 years frequency storm (existing conditions). For detailed computations of the runoff before and after development the assumed runoff coefficient recommended are C = 0.4 for undeveloped, landscaped or similar open areas and C = 0.9 for all other impervious surfaces, including areas in southwesteren type landscaping with underlying polyethilene film and gravel covered parking areas where vehicular traffic will compact the soil and render it impervious. Due to the inadequacy of the existing drainage fecilities in the valley area and to the limited capabilities of the City for providing relief, ponding requirements in the valley are higher than

Volley A rel

COMPUTATION OF VOLUME OF RETENTION:

elsewhere.

1.0 $\times \frac{2.2}{12}$ " x Area (ft.) = 0.18 x A Valley Area

East and West Mesa = $(0.9 - 0.4) \times 2.4$ " x Area (ft.) = 0.1 X A

In order to fecilitate the design of drainage facilities, a checklist that will be followed in the review process is listed below glasskies.

CHECK LIST

- 1 Flooding potential adjacent water courses
- Mo Is property located in the flood plain? J22 FNBM 18,27

If so is the finished floor above the 100 yrs. flood level?

Is property adjacent to a natural or artificial water course?

If so what are the specific AMAFCA or City requirements?

- Are drainage R.O.W. or easements shown on, or in the proximity of property? If so are there drainage problems?
- 2 Relation of property to surroundings
- Per topo map, does property intercept other drainage upstream?

If so how is runoff conveyed across property?

- Me May there be erosion associated with offsite runoff conveyance?
- May erosion or siltation result from proposed construction
- Does development block drainage from adjacent property?
- 3.- Site grading
- Does site plan show contours before development (extending a minimum of 25 ft. beyond property lines)?
- Does site plan show proposed grading with adequate swale definition to convey water to pends?
- Is all runoff conveyed to ponding areas before it overflows to public facilities?
- Does the proposed grading plan indicate that under cutting or backfilling adjacent to property lines may require retention walls?

Is there continuity between proposed new contours on site match

" CHECK LIST Page 2.

old contours offsite?

Is elevation of property line at least 0.3 ft. above top of curb?

4 - Storm water retention

Is ponding volume adequate (supply detailed completion)?

Are ponds balanced with areas they drain (can area draining to each pond to easily identified and will actually water flow there)? The plot plan must outline each drainage area.

U+ a+ 150

Can pond volume be computed and verified?

Are ponds practical, can they be built as shown?

5 - Safety

Do the drainage provisions constitute an attractive nuisance, or safety hazard?

If the pond depth is greater than 18" are safety provisions supplied? (Minimum 3.0 ft. high chain link fence or similiar physical barrier of ponding areas are adjacent to public R.O.W.?

In general ponds of depth greater than 18" will not be accepted for both safety consideration and for long term effectiveness of the facilities. In those cases where limited space is available for ponding, the use of gravel pits under the parking areas is suggested. It must be pointed out that maintenance and effectivenes of these facilities is necessary and is the responisbility of the owner. Existing or planned City facilities (streets, channels, storm sewers) can accommodate the natural runoff volumes. Greater discharges would cause flooding downstream and need to be limited at the source.