

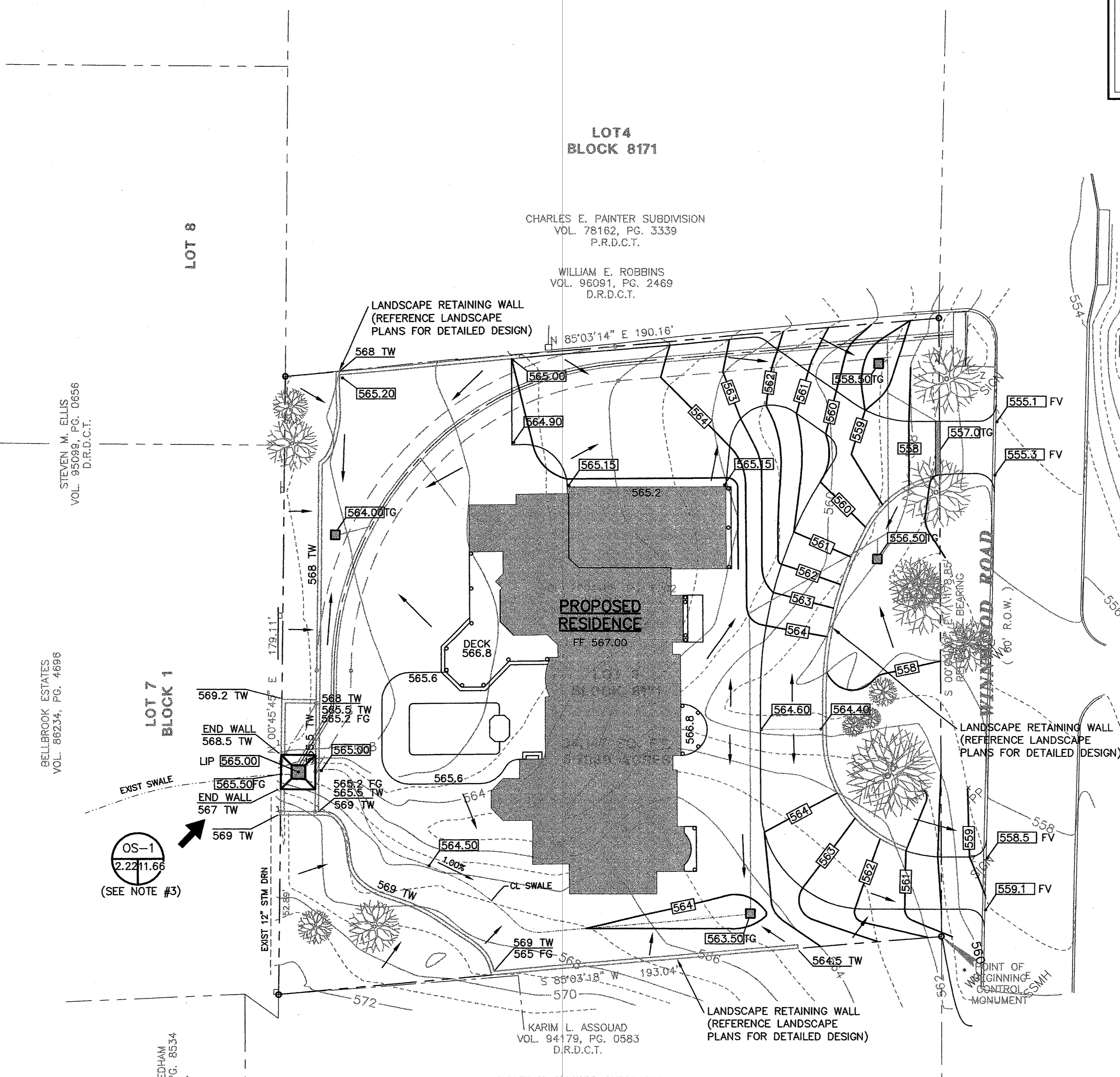
GENERAL NOTES

1. CAUTION!!! - UNDERGROUND UTILITIES: LOCATION OF EXISTING UTILITIES AND UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE BASED ON FIELD SURVEYS AND AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL ALIGNMENT OF ALL EXISTING IMPROVEMENTS, WHETHER SHOWN OR NOT, PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING WORK AFFECTED BY SAID UTILITIES, OF ANY AND ALL CONFLICTS BETWEEN THE EXISTING UTILITIES AND THE PROPOSED IMPROVEMENTS.
2. TOPOGRAPHIC SURVEY OF EXISTING CONDITIONS AND SURVEY CONTROL INFORMATION HAVE BEEN PROVIDED BY THE OWNER. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SURVEYOR TO IDENTIFY BENCHMARKS FOR THE PROJECT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING IMPROVEMENTS, INCLUDING UTILITIES, PAVEMENT, AND LANDSCAPING WITHIN OR ADJACENT TO THE AREA OF WORK DURING THE COURSE OF THE PROJECT. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED FACILITIES OR IMPROVEMENTS DAMAGED DURING THE COURSE OF THE PROJECT AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS FOR ALL PERMITS REQUIRED BY THE TOWN OF ADDISON PRIOR TO BEGINNING WORK.
5. CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES. PONDING OF WATER ONSITE OR ADJACENT TO THE PROJECT AREA WILL NOT BE ALLOWED.
6. ALL MATERIALS REMOVED AS PART OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR (EXCEPT AS NOTED ON THE PLANS) AND SHALL BE DISPOSED OF OFFSITE AT HIS EXPENSE. NO STORAGE OR STOCKPILING OF REMOVED MATERIALS WILL BE ALLOWED ONSITE.
7. ALL GRADES SHOWN ARE TO TOP OF PAVEMENT OR FINISHED GRADE. CONTRACTOR SHALL ADJUST SUBGRADE ELEVATION AS NEEDED TO ACCOMMODATE PAVEMENT THICKNESSES AND TOPSOIL REFERENCE PROJECT SPECIFICATIONS FOR TOPSOILING REQUIREMENTS.
8. CONTRACTOR SHALL INSTITUTE NECESSARY MEASURES TO CONTROL SEDIMENT RUNOFF DURING THE CONSTRUCTION OF THIS PROJECT. ALL EROSION CONTROL MEASURES AND NPDES NOTIFICATION/PERMITTING SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON REQUIREMENTS.

CAUTION !!!
EXISTING UTILITIES
 EXISTING PUBLIC AND FRANCHISE UTILITY LINE CROSSINGS IN THIS AREA. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING AND WORKING IN THIS AREA. EXISTING UTILITY CROSSINGS SHALL BE EXPOSED AND ALIGNMENTS VERIFIED PRIOR TO BEGINNING NEW UTILITY CONSTRUCTION. CONTRACTOR SHALL EMPLOY ANY NECESSARY METHOD OF EXCAVATION, INCLUDING HAND EXCAVATION AND/OR "AIR-VAC", WHICH MAY BE JUSTIFIED TO INSURE NO DAMAGE TO THESE FACILITIES. CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS WHILE WORKING IN THIS AREA.

LEGEND

- FLOW DIRECTION
- 640 --- EXISTING CONTOUR
- 640 — FINISHED GRADE CONTOUR
- 640.27 PROPOSED SPOT ELEVATION
- B-3
1.249.8 D.A. DESIGNATION AREA(ac.)/Q(100)
- --- PROPOSED MINOR DRAINAGE DIVIDE
- — — — PROPOSED MAJOR DRAINAGE DIVIDE
- ➔ PT OF CONCENTRATION



DRAINAGE CALCULATION

RATIONAL METHOD: $Q=C*I*A$

Q= DRAINAGE FLOW IN CUBIC FEET/SECOND
 C= 0.60 FOR RESIDENTIAL
 I= 8.74 IN/HR FOR 100 YR STORM INTENSITY
 A= ACREAGE OF DRAINAGE AREA
 t= 10 MINUTE TIME OF CONCENTRATION

NOTES:

1. PROPOSED STORM DRAIN IMPROVEMENTS ARE DESIGNED IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARDS.
2. TOPOGRAPHIC SURVEY OF EXISTING CONDITIONS AND SURVEY CONTROL INFORMATION HAS BEEN DEVELOPED AND PROVIDED BY THE OWNER FOR USE ON THIS PROJECT. DESIGN OF PROPOSED IMPROVEMENTS ARE BASED ON THIS INFORMATION.
3. OFFSITE DRAINAGE AREAS ARE BASED ON THE BELLBROOK ESTATES FINAL PLAT. AVAILABLE DRAINAGE PLANS FOR HAMPTON COURT AND BELLBROOK DRIVE, IN CONJUNCTION WITH FIELD OBSERVATIONS, WERE USED TO ESTIMATE THE DRAINAGE AREA CONTRIBUTING TO FLOWS ENTERING THE SUBJECT PROPERTY. THE PROPOSED DRAINAGE IMPROVEMENTS ACCOMMODATE SURFACE RUNOFF FROM BELLBROOK ESTATES, LOTS 6 AND 7, AND THE RESIDENTIAL LOTS LOCATED AT 5505, 5535, AND 5545 CELESTIAL RD. TOTAL DRAINAGE AREA IS 2.22 ACRES.

APPROVED
 SIGNED *Steve Chatham* DATE 4/19/05
 TITLE _____
 TOWN OF ADDISON
 PUBLIC WORKS DEPARTMENT

REV.	DESCRIPTION	DATE
1	INCORPORATE TOWN COMMENTS	19APR05

NKR ENGINEERING GROUP, INC.
 4004 BELT LINE RD
 SUITE 210
 ADDISON, TEXAS 75001
 PH: 972.818.6305
 FAX: 972.818.6306

V. MENON RESIDENCE
 14523 WINWOOD ROAD
 LOT 3, BLOCK 8171
 MENON ADDITION
 CITY OF ADDISON, DALLAS COUNTY, TEXAS

STATE OF TEXAS
 THOMAS J. KNICKER
 67731
 REGISTERED PROFESSIONAL ENGINEER
 4/19/05

CONSTRUCTION
DRAINAGE AREA MAP
GRADING PLAN

Issue Date: 07APR05
 Project No.: 8804
 Drawn By: TJK
 Reviewed By: TJK
 SHEET NUMBER:

C1.0
 SHEET 1 OF 2