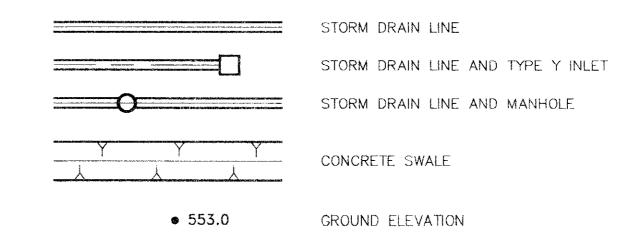
# LEGEND

# EASEMENT LINE - 12"W - WATER LINE (SIZE) SANITARY SEWER LINE AND MANHOLE (SIZE) SOUTHWESTERN BELL TELEPHONE CABLE LONE STAR GAS LINE OVERHEAD POWER LINE AND POLE CURB LINE TU ELECTRIC UNDERGROUND CABLE x 553.1 GROUND ELEVATION

## PROPOSED



DRAINAGE AREA NO.	DRAINAGE AREA (acres)	RUNOFF COEFFICIENT (C)	TIME OF CONCENTRATION (min)	RAINFALL INTENSITY (inches/hour)			RUNOFF (cfs)		
				15	25	100	Q5	Q 25	Q 100
1	6.8	0.45	15	5.0	7.3	8.9	15.3	22.3	27.3
2	1.0	0.45	15	5.0	7.3	8.9	2.2	3.3	4.0

# DRAINAGE NOTE

- 1. PHASE 2 DRAINAGE SYSTEM HAS BEEN DESIGNED TO COLLECT AND CONTAIN RUNOFF FROM THE 100-YEAR STORM.
- 2. PHASE 3 DRAINAGE SYSTEM HAS BEEN DESIGNED TO COLLECT AND CONTAIN RUNOFF UP TO A LEVEL BETWEEN THE 5-YEAR AND 25-YEAR STORM.

# LIST OF BENCHMARKS

CORNER, FIRST POLE EAST OF BELLBROOK DRIVE. ELEVATION = 603.83

BOX SET IN THE NORTH RIM OF A SANITARY SEWER MANHOLE 5' SOUTH OF THE SOUTH CURB LINE OF BELLBROOK WAY, NEAR THE NORTHEAST CORNER OF LOT 12 OF BELLBROOK ESTATES.

# EXISTING

SPRINKLER HEAD

# DRAINAGE CALCULATIONS

7 17 17 17 17 17 17 17 17 17 17 17 17 17	(acres)	(C)	(min)	(inches/hour)			(cfs)		
				15	25	100	Q5	Q 25	Q 100
1	6.8	0.45	15	5.0	7.3	8.9	15.3	22.3	27.3
2	1.0	0.45	15	5.0	7.3	8.9	2.2	3.3	4.0

RAILROAD SPIKE FOUND IN A POWER POLE ON THE SOUTH SIDE OF CELESTIAL ROAD 400'± EAST OF THE SOUTHWEST PROPERTY

RAILROAD SPIKE FOUND IN A POWER POLE 20'± WEST OF THE SOUTHEAST LOT CORNER OF NAN'S LITTLE ACRE ADDITION; SAME CORNER BEING 57'± SOUTH OF THE NORTHEAST CORNER OF LOT 9 OF BELLBROOK ESTATES. ELEVATION = 567.28

ELEVATION = 567.70

# GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF DALLAS 251-D STANDARDS AND SPECIFICATIONS AND NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1983 EDITION) INCLUDING ALL AMENDMENTS AND ADDITIONS. USE TOWN OF ADDISON STANDARD INLET FRAME & COVER ON ALL MANHOLES AND INLETS.
- 2. CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRI-VATE PROPERTY WITHOUT PRIOR WRITTEN AGREEMENT WITH THE PRO-PERTY OWNER. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPON-SIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND HE SHALL RE-MOVE THE MATERIAL AT HIS OWN COST IF THE TOWN SO DIRECTS.
- 3. NO TREES SHALL BE CUT EXCEPT ON SPECIFIC AUTHORITY OF THE
- 4. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.
- 5. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUP-PORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
- 6. THE CONTRACTOR SHALL NOTIFY THE DALLAS WATER UTILITIES DISTRIB-UTION DIVISION, 670-8543, AND THE WASTEWATER COLLECTION DIVISION, 670-7440, AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION THAT MIGHT AFFECT THEIR FACILITIES.
- 7. THE CONTRACTOR SHALL CONSTRUCT UTILITY SUPPORTS FOR EXISTING WATER MAINS AND SANITARY SEWERS WHERE DIRECTED BY THE ENGINEER. ALL SUCH UTILITY SUPPORTS SHALL BE INCIDENTAL ON THIS PROJECT. NO PAY ITEMS WILL BE PROVIDED.
- 8. STANDARD DEPTH OF INLETS IS 4.0 FEET, EXCEPT AS SHOWN OTHERWISE. DEPTH MAY BE VARIED TO CLEAR UTILITIES.
- 9. LOCATION OF ALL UNDERGROUND UTILITIES IN THE AREA OF SWALE, FRENCH DRAIN AND STORM DRAIN CONSTRUCTION AND OTHER AREAS OF POSSIBLE CONFLICT WILL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO START OF CONSTRUCTION.
- 10. ALL STORM DRAIN PIPE WILL BE INSTALLED ACCORDING TO THE RE-QUIREMENTS OF THE SPECIFICATIONS.
- 11. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC., FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CON-FORM TO THE INSTALLATION SHOWN IN THE 1980 TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS CURRENTLY AMENDED, TEXAS STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION ON A DAILY BASIS.
- 13. HAND FINISH OF CONCRETE PAVEMENT SHALL NOT BE A SEPERATE PAY ITEM ON THIS PROJECT.

14. ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS

- PROJECT MUST BE MAINTAINED FOR EMERGENCY TRAFFIC.
- 15. NO STOP OR YIELD SIGN IS TO BE RELOCATED OR REMOVED WITHOUT PRIOR APPROVAL BY THE TOWN.
- 16. ADJUSTMENT OF UNPAVED SURFACES TO GRADE AND RESTORATION OF THE SURFACE TO EQUAL OR BETTER THAN THE ORIGINAL WILL BE INCIDENTAL ON THIS PROJECT. NO PAY ITEMS WILL BE PROVIDED.
- 17. VERIFY LOCATIONS OF TU ELECTRIC COMPANY UNDERGROUND FACILITIES BEFORE BEGINNING EXCAVATION. CONTACT TU ELECTRIC AT 323-8910 48 HOURS PRIOR TO BEGINNING CONSTRUCTION SO THAT THE LOCATION OF UNDERGROUND LINES CAN BE MARKED.
- 18. PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF SOUTHWESTERN BELL TELEPHONE UNDERGROUND FACILITIES, CALL 998-4102 48 HOURS IN ADVANCE OF WORK. IF NECESSARY, TEST DITCHES WILL BE DUG TO VERIFY ACTUAL LOCATIONS AND CONDITIONS.
- 19. CONTACT STORER CABLE AT 840-2388 48 HOURS PRIOR TO BEGINNING CONSTRUCTION SO THAT THE LOCATION OF UNDERGROUND LINES CAN BE
- 20. CONTACT LONE STAR GAS COMPANY AT 263-DIGG 48 HOURS PRIOR TO BEGINNING CONSTRUCTION SO THAT THE LOCATION OF UNDERGROUND LINES CAN BE MARKED.
- 21. STREET NAME SIGNS WILL BE RELOCATED BY THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO GIVE 5 DAYS NOTICE IN ADVANCE OF THE TIME A STREET SIGN MUST BE RELOCATED TO CLEAR CONSTRUCTION
- 22. REMOVAL AND REPLACEMENT OF FENCE WILL BE INCIDENTAL ON THIS PROJECT. NO PAY ITEMS WILL BE PROVIDED. ANY DAMAGE TO EXISTING FENCING SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 23. THE CEMENT CONTENT FOR PAVEMENT WILL BE INCREASED TO 6 BAGS PER CUBIC YARD TO ENABLE EARLIER OPENING OF THE STREET TO TRAFFIC, IF NECESSARY. NO SEPARATE OR ADDITIONAL PAY WILL BE PROVIDED.
- 24. WHEN EXCAVATING NEAR POWER POLES, CONTRACTOR SHALL ARRANGE AND PAY FOR HAVING POLES SUPPORTED IN PLACE. NO SEPERATE OR ADDITIONAL PAY WILL BE PROVIDED.
- 25. LOCATION OF ALL UTILITIES IS APPROXIMATE. CONTRACTOR TO LOCATE, PROTECT AND REPAIR AT HIS EXPENSE ALL UTILITIES.
- 26. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION.
- 27. CONTRACTOR SHALL EXERCISE REASONABLE CARE TO PREVENT UNNECESSARY DAMAGE TO TREES AND SHRUBS. WHERE REQUIRED, REPLACEMENT OR RESTORATION OF TREES AND SHRUBS SHALL BE PERFORMED BY THE TOWN OF ADDISON.
- 28. CONTRACTOR SHALL CONFORM TO THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S STANDARDS FOR TRENCH SAFETY THAT ARE IN EFFECT DURING THE PERIOD OF CONSTRUCTION.
- 29. TREES SHALL BE TRIMMED PRIOR TO CONSTRUCTION TO PREVENT DAMAGE BY

DESIGNED BY J. WALDBAUER DRAWN BY CHECKED BY: B. GRAND IM REVISION

PROJECT LAYOUT

AND

DRAINAGE AREA MAP

SCALE: 1"=100'

WINNWOOD

PHASE 2

PHASE 3

ESPEY, HUSTON & ASSOCIATES, INC.

Engineering & Environmental Consultants 17811 Waterview Parkway Dallas, Texas 75252 (214) 669-9600

PROJECT LAYOUT/NOTES WINNWOOD/BELLBROOK DRAINAGE

THE TOWN OF ADDISON

PHASES 2 AND 3

6 SHEETS

SHEET NO

13404