

NOTES-PAVING AND GRADING

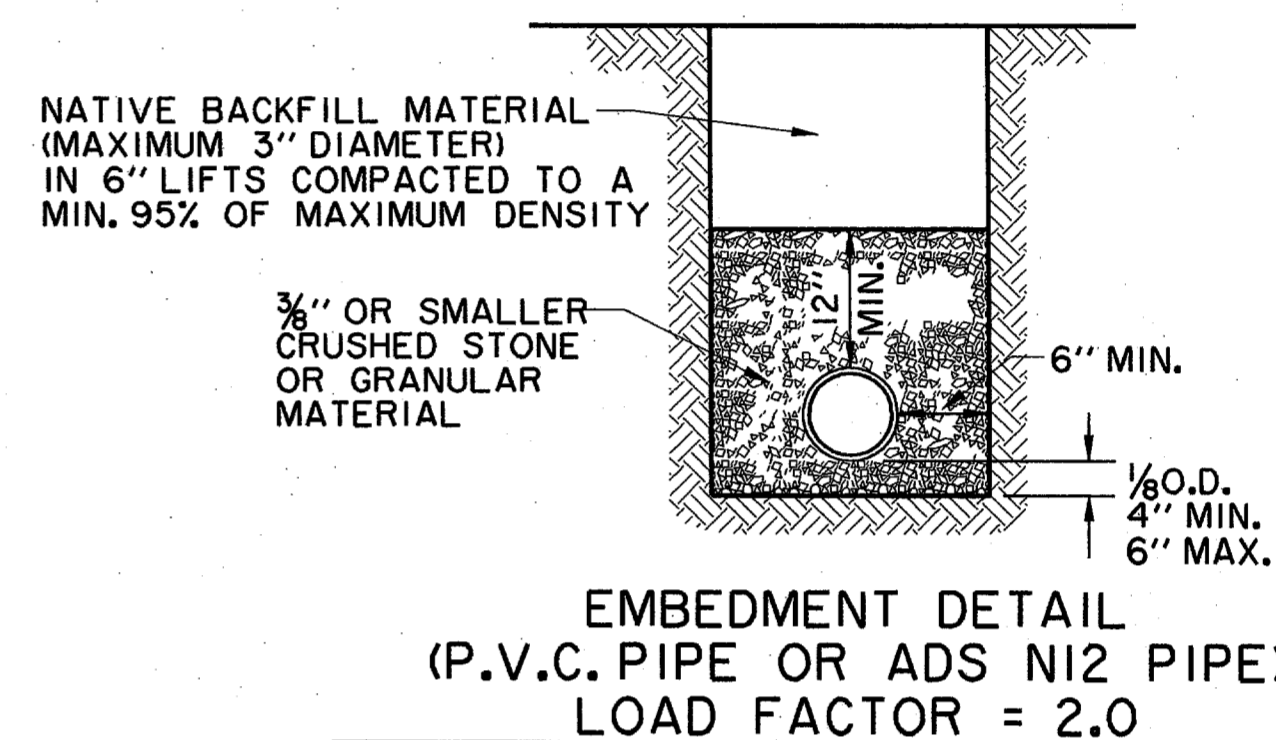
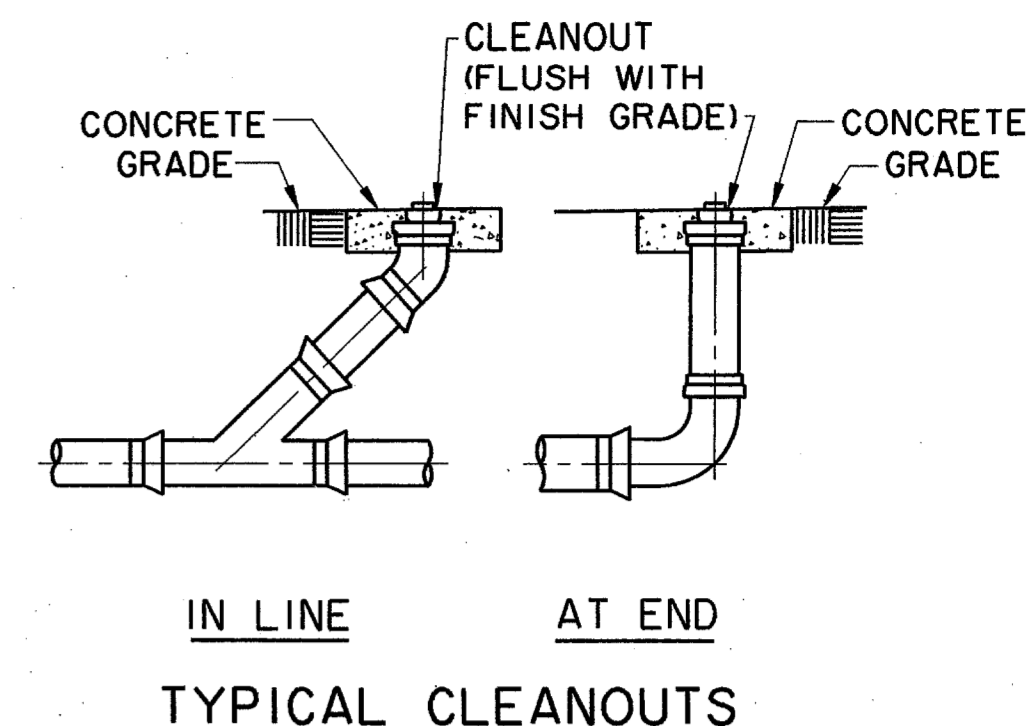
- UNLESS SPECIFICALLY STATED OTHERWISE IN PLANS OR CONTRACT DOCUMENTS, THE CONTROLLING SPECIFICATIONS FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY AND EASEMENTS SHALL BE THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECOND EDITION 1987, AS AMENDED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (THE "STANDARD SPECIFICATIONS"). COPIES OF THE STANDARD SPECIFICATIONS MAY BE PURCHASED BY MAIL OR OVER THE COUNTER FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, P.O. BOX DRAWER COG, ARLINGTON, TEXAS 76005-5888, PHONE METRO 817/640-3300. BULK DISCOUNTS ARE AVAILABLE. THIS DOCUMENT IS COPYRIGHTED.
- ROUGH GRADING SHALL BE ACCOMPLISHED TO WITHIN +/- 0.10 FEET OF PLAN ELEVATION (AFTER ADJUSTMENT FOR FINISH THICKNESS).
- ALL TRAFFIC CONTROL NECESSARY FOR THE WORK SHALL BE PROVIDED BY THE AFFECTED CONTRACTOR. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATIONS SHOWN IN THE LATEST ISSUE OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD)", AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF TRANSPORTATION.
- ALL FILL SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS COMPACTED TO 95% OF STANDARD PROCTOR DENSITY BETWEEN 0% AND +3% OF OPTIMUM MOISTURE CONTENT.
- ALL TREES, STUMPS, BRUSH, GRASSES AND SURFACE ORGANICS WITHIN PROPOSED GRADING AREA ARE TO BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE. TREE REMOVAL PERMITS, IF REQUIRED, WILL BE OBTAINED BY THE OWNER.
- EXISTING UTILITY POLES, IF ANY, WILL BE REMOVED OR RELOCATED BY THE UTILITY COMPANIES THROUGH COORDINATION BY THE OWNER. CONTRACTOR SHALL BRING TO THE OWNER'S ATTENTION ANY FACILITIES THAT APPEAR TO BE IN CONFLICT SO THAT THE OWNER HAS SUFFICIENT TIME TO ACCOMPLISH THE NECESSARY RELOCATIONS.
- TWO-WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON PUBLIC STREETS ADJACENT TO THIS PROJECT UNLESS SPECIFIED OTHERWISE IN THE PLANS AND SPECIFICATIONS. THE TRAVELWAY WIDTH SHALL NOT BE LESS THAN 11 FEET.

LIST OF ABBREVIATIONS

| | | | |
|----------|--------------------------------|----------|-------------------------------------|
| at | Area | PAR. | Parabolic |
| B-B | Back to Back | P.C. | Point of Curvature |
| BM | Bench Mark | P.F. | Partial Flow |
| BTM. | Bottom | P.I. | Point of Intersection |
| B.W. | Bottom of wall | P.R.C. | Point of Reverse Curvature |
| C. | Capacity or Runoff Coefficient | P.R.C. | Point of Reverse Curvature |
| C.C. | Center to Center | PAV. | Paving |
| C.R. | Curb Return | PP | Power Pole |
| CATV | Cable TV | PROP. | Proposed |
| CD | Chord Distance | P.T. | Point of Tangency |
| CL | Centerline | PB | Pull Box |
| CLR. | Clear | P.V.I. | Point of Vertical Intersection |
| Conc. | Concrete | P.V.C. | Point of Vertical Curvature |
| CONST. | Construct | P.V.R.C. | Point of Vertical Reverse Curvature |
| DIA. | Diameter | P.V.M.T. | Pavement |
| DB | Direct Bury | P.V.T. | Point of Vertical Tangency |
| E | East | Q100 | 100 year flow |
| E.P. | Edge of Pavement | R | Radius |
| EQ. | Equal | REINF. | Reinforced |
| EX. | Existing | REC. | Recessed |
| F.F. | Finished Floor | RCP | Reinforced Concrete Pipe |
| F.L. | Flowline | RCCP | Reinforced Concrete Cylinder Pipe |
| FH | Fire Hydrant | R.O.W. | Right of Way |
| GM | Gas Meter | RR | Railroad |
| HG | Hydraulic Gradient | RT. | Right |
| HV | Velocity Head | S | Slope or South |
| I.R. | Iron Rod | SCH. | Schedule |
| I.R.F. | Iron Rod Found | SS | Sanitary Sewer |
| I.R.S. | Iron Rod Set | STD. | Standard |
| I100 | 100 Year Intensity | STA. | Station |
| L | Length | STAB. | Stabilized |
| L.F. | Linear Feet | SW | Storm Water |
| LAT. | Lateral | SWBT | Southwestern Bell Telephone |
| LT. | Left | T | Tangent |
| m | Mid-ordinate | T.C. | Top of Curb |
| MAX. | Maximum | tc | Time of Concentration |
| M.J. | Mechanical Joint | T.P. | Top of Pavement |
| MH | Manhole or Metal Halide | T.W. | Top of Wall |
| MIN. | Minimum | Typ. | Typical |
| MOD. | Modified | V | Velocity |
| N | North | VP | Partial Flow Velocity |
| NA | Not Applicable | V.C. | Vertical Curve |
| N.T.S. | Not to Scale | W | West |
| O.C. | On Center | W/ | with |
| O.C.E.W. | On Center Each Way | WM | Water Meter |
| O.D. | Outside Diameter | W | Water |
| | | WW | Waste Water |
| | | Δ | Angle of Deflection |

GENERAL NOTES (ALL DISCIPLINES)

- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND PLANS INCLUDING ALL NOTES. THE TOWN OF ADDISON SPECIFICATIONS AND ANY OTHER APPLICABLE STANDARDS OR SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL HAVE IN HIS POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, ETC. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS AT ALL TIMES.
 - ALL WORK SHALL CONFORM TO THE TOWN OF ADDISON SPECIFICATIONS UNLESS OTHERWISE INDICATED ON APPROVED PLANS.
 - IN THE EVENT AN ITEM IS NOT COVERED IN THE TOWN OF ADDISON SPECIFICATIONS, THE CITY ENGINEER'S DECISION SHALL APPLY. IN CASE OF CONFLICT WITH TOWN OF ADDISON SPECIFICATIONS, THE DESIGN ENGINEER SHALL BE NOTIFIED TO PROVIDE CLARIFICATION.
 - CONSTRUCTION INSPECTION MAY BE PERFORMED BY REPRESENTATIVES OF THE OWNER, ENGINEER, GEOTECHNICAL ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS.
 - CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
 - IF UNFORESEEN PROBLEMS OR CONFLICTS ARE ENCOUNTERED IN THE CONSTRUCTION, FOR WHICH AN IMMEDIATE SOLUTION IS NOT APPARENT, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
 - OTHER CONSTRUCTION WILL BE UNDERWAY AT THE SAME TIME AND IN THE SAME GENERAL AREA WHICH IS ENCOMPASSED BY THIS CONTRACT. THIS CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS TO ESTABLISH A CONSTRUCTION SEQUENCE WHICH WILL CAUSE THE LEAST HINDRANCE TO ALL.
 - IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.
- TOWN OF ADDISON, WATER, SEWER & STORM 972-450-2886
 T.U. ELECTRIC 972-323-8913
 SOUTHWESTERN BELL TELEPHONE CO. 972-234-7085
 LONE STAR GAS COMPANY 972-235-4620
 TCI CABLEVISION OF DALLAS 214-320-7313
 HERRON CABLEVISION 972-938-0333
 MCI 972-918-7496
 EXPLORER PIPELINE 817-481-4040
 STORER CABLE
 PLANNED CABLE SYSTEMS
 SPRINT
 MFS
- ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS ONTO ADJACENT PROPERTIES WILL BE ALLOWED UNLESS SPECIFIED IN THE PLANS. ANY DAMAGE RESULTING THEREFROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
 - THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 - PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON:
 - THE OWNER SHALL PROVIDE 1 REPRODUCIBLE SET OF RECORD DRAWINGS (SEALED BY A TEXAS REGISTERED ENGINEER) AND 2 BLUELINE SETS.
 - A TEXAS REGISTERED PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE PROJECT WAS CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE TOWN OF ADDISON.
 - CONTRACTOR SHALL DEMONSTRATE THAT THE WATER AND SANITARY SEWER SYSTEMS MEET THE PROPER PRESSURE, BACTERIA, AND MANDREL TESTS. IN ADDITION, THE OWNER SHALL PROVIDE A VHS FORMAT VIDEOTAPE OF THE SANITARY SEWER.
 - PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE TOWN OF ADDISON, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES AND ANY OTHER AFFECTED PARTIES. NOTIFY DAVE WILDE AT (972) 450-2847 AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
 - ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
 - CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE TOWN OF ADDISON FOR WORKING WITHIN THE PUBLIC RIGHT-OF-WAY. CONTRACTOR SHALL ALSO OBTAIN AN EXCAVATION PERMIT FROM THE TOWN OF ADDISON.
 - THE UTILITY CONTRACTOR SHALL SUBMIT TO THE TOWN OF ADDISON FOR APPROVAL A TRENCH SAFETY PLAN SEALED BY A REGISTERED PROFESSIONAL ENGINEER FOR THE INSTALLATION OF UTILITIES GREATER THAN FIVE (5) FEET IN DEPTH.
 - A ONE YEAR 10% MAINTENANCE BOND IS REQUIRED FOR THE PUBLIC INFRASTRUCTURE.
 - CONTRACTOR SHALL DEMONSTRATE THAT THE WATER AND SANITARY SEWER SYSTEMS MEET THE PROPER PRESSURE, BACTERIA AND MANDREL TESTS. IN ADDITION, THE OWNER SHALL PROVIDE A VHS FORMAT VIDEO TAPE OF THE SANITARY SEWER.
 - DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM MATERIALS TESTING DURING THE CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT MATERIAL SHEETS TO THE TOWN OF ADDISON FOR APPROVAL PRIOR TO INCORPORATING MATERIALS INTO THE JOB.
 - ALL EXISTING AND PROPOSED IMPROVEMENTS (VALVES, MANHOLES, FIRE HYDRANTS, WATER METERS, ETC.) SHALL BE ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR.



TYPICAL NATIVE MATERIAL COMPACTED TO: 95% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE 0 TO +3% UNDER PAVEMENT 95% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE 0 TO +3% OUTSIDE CURB LINES JETTING IS NOT ALLOWED BACKFILL TO BE COMPACTED IN 6" +/- LIFTS TYPICAL NATIVE MATERIAL (MAX. 3" DIA.)

PVC DRAINS SHALL BE SDR 35 SIZED AS NOTED ON THE PLANS. ADS PIPE SHALL BE N12 SIZED AS NOTED ON THE PLANS.

BENCHMARKS:

BM#5
 "I" CUT ON 8" INLET ON NORTH CURB LINE OF GOODMAN AVE. 475' EAST OF PASCHAL PLACE. ELEV. 629.98

BM#6
 "I" CUT AT C/O 8" INLET AT THE SOUTHWEST CORNER OF MORRIS AVE. AND WITT PLACE. ELEV. 627.29

BM#7
 "I" CUT AT WEST CORNER OF ADDISON THEATRE CENTRE PARKING LOT, SECOND ENTRANCE NORTH OF ADDISON RD. ELEV. 637.66

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512 ON 7/16/99

STATE OF TEXAS
 DAVID E. MEYERS
 81512
 REGISTERED PROFESSIONAL ENGINEER

| DATE | DESCRIPTION | REF. NO. |
|---------|-------------------------|----------|
| 7/16/99 | ISSUED FOR CONSTRUCTION | N/A |
| 6/4/99 | ISSUED FOR BID | N/A |

MISC. DETAILS AND GENERAL NOTES

ADDISON CIRCLE
 PHASE 3 PRIVATE
 TOWN OF ADDISON, TEXAS

Hull - Collins, Inc.
 3131 McKinney Ave., Suite 600, Dallas, TX 75204
 Phone (214) 871-3311/Fax (214) 871-0757

| DESIGN | DRAWN | APPR. | SCALE | DATE | PROJECT NO. | NO. |
|--------|-------|-------|--------|--------|-------------|-----|
| HZ1 | HZ1 | DEM | N.T.S. | JUN 99 | 01-1932-30 | MI |