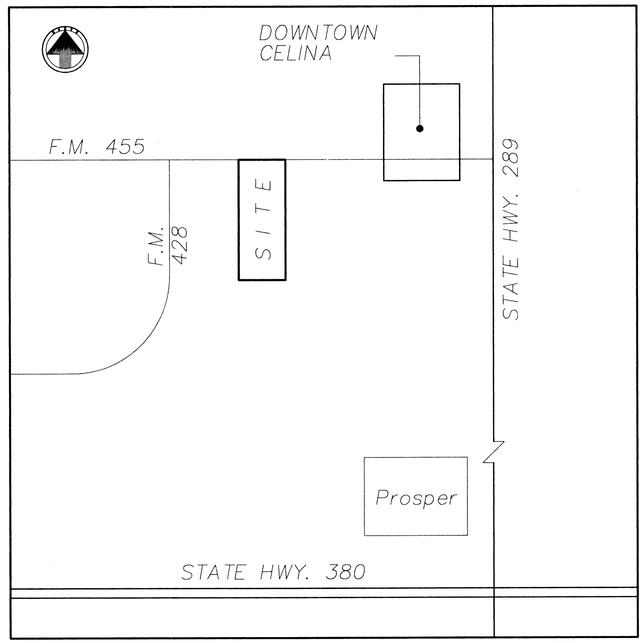
CONSTRUCTION PLANS FOR

TOLLESON ESTATES PHASE 2

AN ADDITION TO THE CITY OF CELINA, TEXAS



LOCATION MAP
(NOT TO SCALE)

DEVELOPED BY :
KB Developers, Ltd.
2653 Tama Drive
Dallas, Texas 75229
(972) 247-7180

PREPARED BY:
PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, SUITE 308
DALLAS, TEXAS 75247
(972) 877-3953

CONSTRUCTION DETAILS ARE SHOWN IN THE MOST CURRENT EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, OR AS SUPERSEDED BY CITY OF CELINA REQUIREMENTS (SUCH AS STREET PAVEMENT SECTION AS SHOWN ON THESE PLANS) THE CONTRACTOR SHALL KEEP A COPY OF APPLICABLE CONSTRUCTION DETAILS ON THE PROJECT SITE AT ALL TIMES.

AUGUST, 2001

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THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

Construction Plans

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_mprojects_tolleson2\TE2-COV.DWG jim

P-200108-01

Accepted this _____ day of _____, by the City Planning and Zoning Commission of the City of Celina.

_____ Chairman

_____ Secretary

Accepted by the City Council of the City of Celina:

_____
Mayor, City of Celina, Texas

100 50 0 100 200
1" = 100'

The undersigned, the City Secretary of the City of Celina, hereby certifies the the foregoing final plat of Tolleson Estates Phase 2 subdivision or addition to the City of Celina was submitted to the City Council on the _____ day of _____, 2000, and the City Council by formal action then and there accepted the dedication of streets, alley easements, easements and public places as shown and set forth in and upon said map or plat and said City Council further authorized the Mayor to note the acceptance thereof by signing his name as hereinabove subscribed.

Witness my hand this _____ day of _____, A.D., 2001.

_____
City Secretary, City of Celina, Texas

NOW THEREFORE KNOW ALL PERSONS BY THIS PRESENT:

THAT, KB Developers, LTD., does hereby adopt this plat designating the above described property as TOLLESON ESTATES PHASE TWO, an addition to the City of Celina, Collin County, Texas, and do hereby dedicate to the public's use forever the streets, roads, alleys and easements as shown hereon.

WITNESS UNDER MY HAND THIS THE _____ day of _____, 2001.

_____
Kenny Bounds, Owner

COUNTY OF DALLAS:

BEFORE ME, the undersigned authority, a notary public in and for said County and State, on this day personally appeared, Kenny Bounds, known to be the person whose name is subscribed to the forgoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE _____ day of _____, 2001.

_____
Notary Public - Dallas County, Texas

KNOWN ALL MEN BY THESE PRESENTS:

THAT I, Sepehr Parnian, R.P.L.S. do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the corner monuments shown theron were properly placed under my personal supervision, in accordance with the subdivision regulations of the City of Celina.

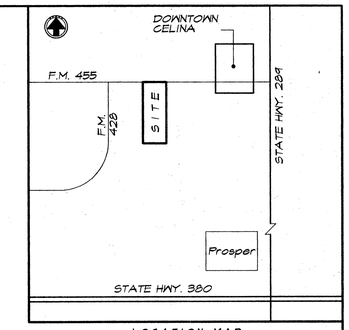
_____ Date: _____
Sepehr Parnian, R.P.L.S. #3466

STATE OF TEXAS:
COUNTY OF DALLAS:

BEFORE ME, the undersigned authority, a notary public in and for said County and State, on this day personally appeared, Sepehr Parnian, known to be the person whose name is subscribed to the forgoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE _____ day of _____, 2001.

_____
Notary Public - Dallas County, Texas



LOCATION MAP
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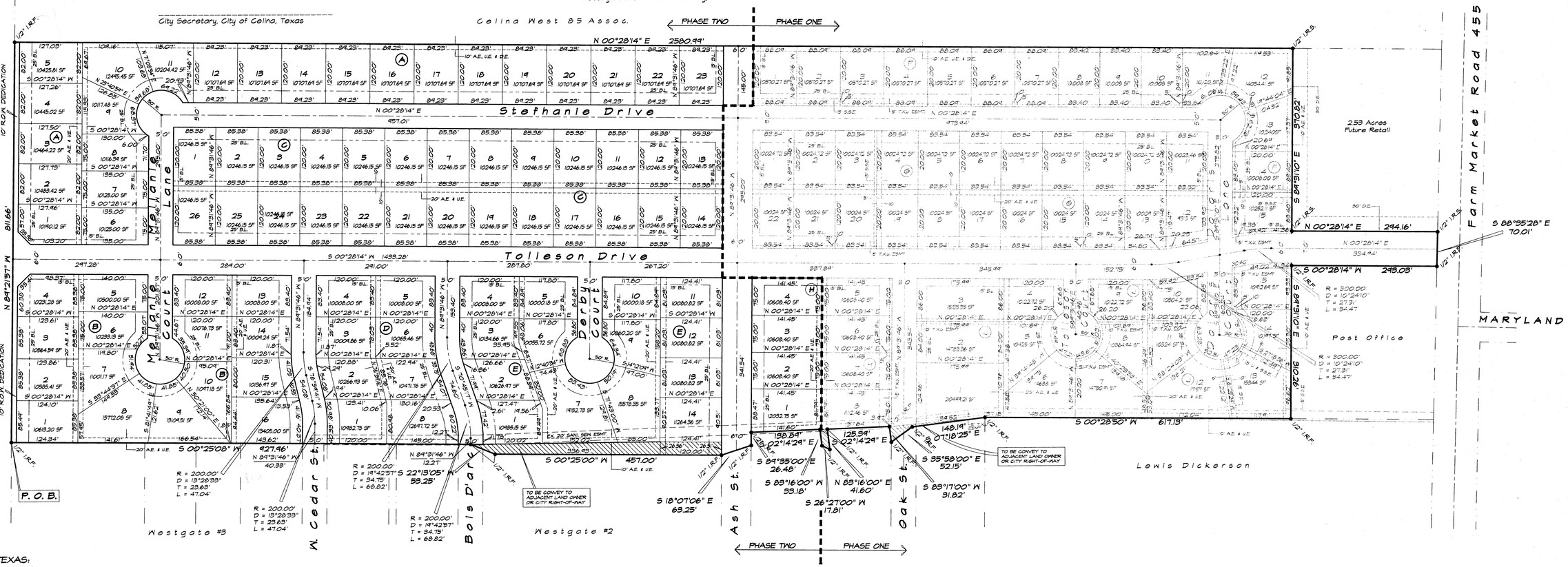


STATE OF TEXAS:
COUNTY OF COLLIN:

Being a 28.56 acre tract of land (91 Single family lots) out of the following described 47.526 acre tract:

Whereas, KB Group, LTD. is the owner of a tract of land out of the M.E.P. & P. RY. CO. Survey, Abstract No. 644, and being part of a certain 52.413 acre tract of land as recorded in Volume 2362, Page 545 as recorded in the deed records of Collin County, Texas and being more particularly described as follows:

Beginning at an iron rod located at the southeast corner of said 52.413 acre tract, said corner being the southwest of Westgate Addition No. 3, an addition to the City of Celina, Collin County, Texas, said corner lying lon the north right-of-way line of C. R. 56;

Thence N 84 deg 21' 57" W along said north right-of-way line, a distance of 811.66 feet to a 1/2" iron rod found for a corner, said corner being the southeast corner of a 85.612 acre tract as recorded in Volume 3128, Page 572 of the deed records of Collin County, Texas;

Thence N 00 deg 28' 14" E along east line of said 85.612 acre tract and west line of said 52.413 acre tract a distance of 2580.99 feet to a 1/2" iron rod set for a corner;

Thence S 84 deg 31' 10" E departing said west line of 52.413 acre tract, a distance of 370.82 feet to a point for a 1/2" iron rod set for a corner;

Thence N 00 deg 28' 14" E a distance of 244.16 feet to a 1/2" iron rod set for a corner, said point being on the south right-of-way line of F.M. 455;

Thence S 88 deg 35' 28" E along said south right-of-way line of F. M. 455, a distance of 70.01 feet to a 1/2" iron rod set for a corner;

Thence S 00 deg 28' 14" W departing said south right-of-way line, a distance of 293.03 feet to a 1/2" iron rod set for a corner;

Thence S 84 deg 31' 10" E a distance of 310.26 feet to a 1/2" iron rod set for a corner, said point being in the east line of said 52.413 acre tract;

Thence S 00 deg 28' 50" W along said east line, a distance of 617.13 feet to a 1/2" iron rod found for a corner;

Thence S 07 deg 18' 25" E continuing along the east line, same being the west line of said Westgate Addition No. 1, a distance of 148.19 feet to a 1/2" iron rod found for a corner;

Thence S 35 deg 58' 00" E a distance of 52.15 feet to a 1/2" iron rod found for a corner, said corner being the northeast corner of that certain 4588 s.f. tract as recorded in County Clerk #94-0080534 of the deed records of Collin County, Texas;

Thence S 83 deg 17' 00" W along the north line of said 4588 s.f. tract, a distance of 31.82 feet to a 1/2" iron rod found for a corner;

Thence S 02 deg 14' 29" E along the west line of said 4588 s.f. tract, a distance of 125.39 feet to 1/2" iron rod found for a corner;

Thence N 83 deg 16' 00" E along the south line of said 4588 s.f. tract, a distance of41.60 feet to a 1/2" iron rod found for a corner;

Thence S 26 deg 27' 00" W along east line of said 52.413 acre tract, a distance of 17.81 feet to a 1/2" iron rod found for a corner, said corner being the northeast corner of that certain 4188 s.f. tract as recorded in County Clerk # 94-0080533 of the deed records of Collin County, Texas;

Thence S 83 deg 16' 00" W along the north line of said 4188 s.f tract , a distance of 33.18 feet to a 1/2" iron rod set for a corner;
Thence S 02 deg 14' 29" E along the west line of said 4188 s.f. tract, a distance of 138.84 feet to a 1/2" iron rod found for a corner;

Thence S 84 deg 35' 00" E along the south line of said 4188 s.f. tract, a distance of 26.48 feet to a 1/2" iron rod found for a corner, said corner being in the said east line of 52.413 acre tract and west line of said Westgate Addition No. 2;

Thence S 18 deg 07' 06" E along said east line, a distance of 63.25 feet to a 1/2" iron rod found for a corner;

Thence S 00 deg 25' 00" W along said east line, a distance of 457.00 feet to a 1/2" iron rod found for a corner;

Thence S 22 deg 13' 05" W along said east line, a distance of 53.25 feet to a 1/2" iron rod found for a corner;

Thence S 00 deg 25' 08" W along said east line and said west line of Westgate Addition No. 3, a distance of 927.96 feet to the Point of Beginning and Containing 47.526 acres of land more or less.

BASIS OF BEARING IS N 84°21'57" W ALONG COUNTY ROAD 56, ALSO BEING THE SOUTH LINE OF SUBJECT TRACT.

LEGEND

A.E. ——— ALLEY EASEMENT

U.E. ——— UTILITY EASEMENT

D.E. ——— DRAINAGE EASMENT

S.S.E. ——— SANITARY SEWER EASEMENT

FINAL PLAT
of
PHASE TWO
TOLLESON ESTATES
(91 SINGLE FAMILY LOTS)

BEING 28.56 ACRES OUT OF THE
M.E.P. & P. RY. CO. SURVEY, ABSTRACT NO. 644
CITY OF CELINA, COLLIN COUNTY, TEXAS

OWNER/DEVELOPER
KB Developers, LTD
2653 Tarna Drive
Dallas, Texas 75229
(972) 247-7180

PREPARED BY:
PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, SUITE 308
DALLAS, TEXAS 75247
CONTACT : TOMMY CANSLER
(972) 877-3453

July 13, 2001 1 " = 100 '

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects=_ltolleson2\te2-fplat.dwg jim

P-200108-01

GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT MR. LARRY BARTLETT, CITY ADMINISTRATOR OF CELINA TO REQUEST A PRE-CONSTRUCTION CONFERENCE. CONSTRUCTION SHALL NOT BEGIN UNTIL AUTHORIZED BY MR. BARTLETT FOLLOWING THE CONFERENCE. IT IS RECOMMENDED THAT THE CONTRACTOR REQUEST THE CONFERENCE AT LEAST ONE WEEK BEFORE HE INTENDS TO BEGIN CONSTRUCTION. MR. BARTLETT'S TELEPHONE NUMBER IS (972) 382-2682. CONSTRUCTION SCHEDULES ARE SUBJECT TO CITY APPROVAL.

2. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE SCHEDULE. THE CONSTRUCTION SCHEDULE SHALL BE SUCH THAT THERE IS THE MINIMUM INTERFERENCE WITH TRAFFIC ALONG OR ADJACENT TO THE PROJECT.

3. CONSTRUCTION MAY NOT BE BEGUN EARLIER THAN 7:00 AM ON WEEKDAYS NOR CONTINUED AFTER 6:00 PM WITHOUT PERMISSION FROM THE DIRECTOR OF PUBLIC WORKS. CONSTRUCTION ON SATURDAY MAY NOR BE BEGUN BEFORE 8:00 AM AND WORK ON SUNDAY IS PROHIBITED WITHOUT SPECIAL PERMISSION.

4. UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM FIELD SURVEYS AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE COMPLETENESS AND THE ACCURACY OF THIS DATA IS NOT GUARANTEED. CONTACT THE FOLLOWING UTILITY COMPANIES BEFORE BEGINNING CONSTRUCTION:

   TXU ELECTRIC - (800) 242-9113
   TXU GAS - (800) 542-5543
   SOUTHWESTERN BELL TELEPHONE - (214) 548-5808
   COMMUNICATION SERVICES - (214) 570-0445

   THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND PROTECTING THEM FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF HE FINDS ANY DISCREPANCIES IN LOCATIONS AS SHOWN ON THE PLAN.

5. WORK MAY NOT BE BACK FILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE CITY OF CELINA, TEXAS.

6. MATERIALS TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE CONTRACTOR.

7. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.

8. REMOVE, SALVAGE, AND REPLACE ALL STREET AND TRAFFIC CONTROL SIGNS THAT MAY BE DAMAGED BY THE CONSTRUCTION OF THE PROJECT.

9. ALL TRENCH AND EXCAVATION SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.

10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS (IF ANY).

11. THE CONTRACTOR IS RESPONSIBLE FOR THE CONDITION AND QUALITY OF HIS WORK UNTIL THE CITY OF CELINA ACCEPTS IT FOR PERMANENT MAINTENANCE. THE CONTRACTOR SHALL PROVIDE A PERFORMANCE BOND ACCEPTABLE TO THE CITY BEFORE CONSTRUCTION IS AUTHORIZED.

GENERAL NOTES:
WATER & SANITARY SEWER

1. ALL CONSTRUCTION SHALL CONFORM TO N.C.T.C.O.G. STANDARD SPECIFICATIONS AND DETAILS..

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL (972) 877-3453 IF THERE ARE ANY CONFLICTS IN REGARDS TO LOCATION OF EXISTING UTILITIES.

3. ALL WATER MAINS SHALL BE SIZED AS SHOWN AND BE CONSTRUCTED OF P.V.C. AWW STANDARD C900 , CLASS 200 (SDR 14).

4. ALL WATER SERVICES SHALL BE 1" TYPE " K " COPPER.

5. SANITARY SEWER MAINS SHALL SIZED AS SHOWN AND SHALL BE CONSTRUCTED OF OF SDR 35 P.V.C. PIPE. SANITARY SEWER LATERAL SHALL BE 4" SCHEDULE 40 P.V.C. PIPE.

6. CONTRACTOR IS RESPONSIBLE FOR TESTING OF SANITARY SEWER LINE AND WATER LINE IN ACCORDANCE WITH THE CITY OF CELINA SPECIFICATIONS. CONTRACTOR WILL HAVE THE RESPONSIBILTY OF OBTAINING CITY ACCEPTANCE OF THE WATER AND SANITARY SEWER LINE.

7. UTILITY CONTRACTOR SHALL MARK ALL WATER TAPS AND WATER VALVES WITH A BLUE STAKE PRIOR TO PAVING.

8. UTILITY CONTRACTOR SHALL MARK ALL SANITARY SEWER TAPS WITH A RED STAKE PRIOR TO PAVING.

9. CONTRACTOR SHALL INPRINT INTO THE CONCRETE CURB THE LETTER "S" FOR SANITARY SEWER LATERAL AND THE LETTER "W" FOR WATER SERVICE LOCATIONS.

10. ALL PVC WATER AND SANITARY SEWER LINES SHALL BE INSTALLED WITH TRACER TAPE ABOVE PIPE. WATER LINES SHALL BE BLUE IN COLOR AND SANITARY SEWER LINES SHALL BE GREEN IN COLOR.

11. FIRE HYDRANTS SHALL BE COLOR CODED, BASED ON MAIN SIZE, AS DIRECTED BY THE CITY OF CELINA. BLUE REFLECTOR SHALL BE INSTALL IN THE STREET AT ALL FIRE HYDRANT LOCATIONS AS DIRECTED BY THE CITY OF CELINA.

11. CLASS B-1 EMBEDMENT SHALL BE UTILIZED ON ALL PVC WATER, SANITARY SEWER. CLASS C EMBEDMENT SHALL BE USED FOR DUCTILE IRON PIPE.

GENERAL NOTES:
PAVING AND DRAINAGE

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE N.T.C.O.G. STANDARDS AND SPECIFICATION.

2. BARRIER FREE CURBS SHALL BE CONSTRUCTED AT ALL STREET INTERSECTIONS .

3. ALL STREET RADII SHALL BE 20 FOOT UNLESS OTHERWISE NOTED ON THE PLANS.

4. ALL LOTS SHALL BE FILLED AND GRADED TO CONFORM TO STREET GRADES. (SEE GRADING PLAN)

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

6. ALL CORNER LOTS SHALL BE GRADED TO CONFORM WITH THE 45 FOOT SIGHT DISTANCE TRIANGLE.

7. ALL FILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY IN A MAXIMUM OF SIX INCH LIFTS.

8. ALL STORM SEWER HEADWALLS SHALL BE 3000 P.S.I. CONCRETE AT 28 DAYS.

9. MINIMUM CONCRETE STRENGTH ALLOWED IS 3000 P.S.I.

9. ALL STORM SEWER SYSTEMS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING OPTIONS WITH APPROVAL FROM CITY OF CELINA:

   - HDPE PIPE ~ SEE ATTACHED DETAIL SHEET
   - ALUMINIZED TYPE 2 ULTRA FLOW, 16 GAGE (FOR 18" THRU 48" DIA.) WITH 3/4"x 3/4"x 7 1/2" BOX RIB CORRUGATION, WITH "QUICK STAB" JOINTS AND GASKESTS AS MANUFACTYRED BY CONTECH CONSTRUCTION PRODUCTS, INC
     BACKFILL
     CRUSHED STONE TO SPRING LINE OF PIPE, WITH SAND TO 1.0' OVER TOP OF PIPE PER N.C.T.C.O.G. CLASS "B" EMBEDMENT.
   - CLASS III REINFORCED CONCRETE PIPE

HIGH DENSITY POLETHYLENE (HDPE) CORRUGATED AND SMOOTH LINED THERMOPLASTIC PIPE SPECIFICATION:
(FOR GRAVITY FLOW DRAINAGE PIPE APPLICATIONS)

DESCRIPTION:

THIS ITEM SHALL GOVERN FOR THE FURNISHING AND INSTALLING OF ALL HIGH DENSITY CORRUGATED POLYETHYLENE (HDPE) SMOOTH LINED PIPE AND / OR MATERIALS FOR CONSTRUCTING OF CULVERTS, SIDE ROAD PIPES, STORM SEWERS, STUBS, AND ALL RELATED CONNECTIONS AND FITTINGS, ALL OF WHICH SHALL CONFORM TO AASHTO M 294 AND AASHTO MP7, LATEST EDITION. THE PIPES SHALL BE OF THE SIZES, TYPES, AND DIMENSIONS SHOWN ON THE PLANS AND SHALL INCLUDE ALL CONNECTIONS AND JOINTS TO NEW OR EXISTING PIPES, STORM SEWER MANHOLES, INLETS, HEADWALLS, AND OTHER APPURTENANCES AS MAY BE REQUIRED TO COMPLETE THE WORK. HDPE PIPE SMOOTH LINED PIPE MAY BE UTILIZED WHEN SHOWN ON THE PLANS AND / OR SPECIFICATIONS OR AS AN ALTERNATE ITEM TO REINFORCED CONCRETE PIPE (RCP).

MATERIALS:

UNLESS OTHERWISE SPECIFIED ON THE PLANS OR HEREIN, THERMOPLASTIC PIPE AND JOINT FITTINGS SHALL CONFORM TO THE FOLLOWING:

A. HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED AND SMOOTH LINED PIPE & FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH REQUIREMENTS OF AASHTO M 294 AND AASHTO MP7, LATEST EDITION.

B. HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED AND SMOOTH LINED PIPE SHALL BE MANUFACTURED FROM VIRGIN PE COMPOUNDS WHICH CONFORM WITH THE REQUIREMENTS OF CELL CLASS 335420C AS DEFINED AND DESCRIBED IN ASTM D 3350.

C. MINIMUM PIPE STIFFNESS (PS) AT FIVE PERCENT DEFLECTION SHALL BE AS DESCRIBED IN AASHTO M 294, SECTION 7.4 AND AASHTO MP7, SECTION 7.4 WHEN TESTED IN ACCORDANCE WITH ASTM D 2412.

D. REPRESENTATIVE SAMPLES OF THE HDPE SMOOTH LINED PIPE SHALL BE SUBMITTED, TESTED, AND RECORDED BY THE MANUFACTURER THEN SUBMITTED TO THE AGENCY REPRESENTATIVE OR DESIGNEE STATING CONFORMANCE TO THE SPECIFICATION HEREIN. THE FOLLOWING DATA WILL BE CHECKED AND RECORDED:

   - WEIGHT
   - MATERIAL DISTRIBUTION
   - PIPE DIMENSIONS
   - WATER INLET AREA
   - PIPE STIFFNESS
   - PIPE FLATTENING
   - BRITTLENESS
   - ENVIRONMENTAL STRESS CRACK RESISTANCE
   - WORKMANSHIP
   - MARKINGS (PER AASHTO)
   - MANUFACTURING PLANT

TABLE 1:

TYPICAL NOMINAL DIMENSIONS OF CORRUGATED SMOOTH LINED POLYETHYLENE PIPE:

NOMINAL DIMENSIONS, IN.
12
15
18
24
30
36
42
48
*54
*60

NOTE: * AASHTO MP7

TYPE S: THIS PIPE SHALL HAVE A FULL CIRCULAR CROSS SECTION, WITH AN OUTER CORRUGATED PIPE WALL AND A SMOOTH INNER WALL.

TYPE D: THIS PIPE SHALL HAVE AN ESSENTIALLY SMOOTH WATERWAY BRACED CIRCUMFERENTIALLY OR SPIRALLY WITH PROJECTIONS OR RIBS JOINED TO AN ESSENTIALLY SMOOTH OUTER WALL. BOTH WALLS ARE FUSED TO, OR CONTINUOS WITH, THE INTERNAL SUPPORTS.

INSTALLATION:

INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D 2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS" AND / OR AASHTO SECTION 30, "THERMOPLASTIC PIPE" CONSTRUCTION AND INSTALLATION.

A. GENERAL INSTALLATION REQUIREMENTS:
THERMOPLASTIC PIPE SHALL BE UNLOADED AND HANDLED WITH REASONABLE CARE. PIPE SHALL BE PLACED IN THE BED STARTING AT THE DOWNSTREAM END.
TRENCHES MUST BE EXCAVATED IN SUCH A MANNER AS TO INSURE THAT THE SIDES WILL BE STABLE UNDER ALL WORKING CONDITIONS. TRENCH WALLS SHALL BE SLOPED OR SUPPORTED IN CONFORMANCE WITH ALL STANDARDS OF SAFETY. ONLY AS MUCH TRENCH AS CAN BE SAFELY MAINTAINED SHALL BE OPENED. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS PRACTICABLE, BUT NO LATTER THAN THE END OF EACH WORKING DAY.

TRENCH DETAILS, INCLUDING FOUNDATION, BEDDING, HAUNCHING, INITIAL BACKFILL, FINAL BACKFILL, PIPE ZONE, AND TRENCH WIDTH ARE SHOWN IN FIGURE 1.

B. TRENCH WIDTHS:
TRENCH WIDTH SHALL BE SUFFICIENT TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIALS. MINIMUM TRENCH WIDTH SHALL NOT BE LESS THAN 1.25 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES. (1.25 X O.D. + 12") NOTE: ON MULTIPLE PIPE BARREL RUNS THE CLEAR DISTANCE BETWEEN PIPES IS AS FOLLOWS:

12"-24" DIAMETERS: CLEAR SPAN =12"
24" & GREATER DIAMETER: CLEAR SPAN = ? X DIAMETER

C. FOUNDATION AND BEDDING:
FOUNDATION AND BEDDING SHALL MEET THE REQUIREMENTS OF AASHTO M 145, A-1, A-2-4, A-2-5, OR A-3. A STABLE AND UNIFORM BEDDING SHALL BE PROVIDED FOR THE PIPE AND ANY PROTRUDING FEATURES OF ITS JOINT AND / OR FITTINGS. THE MIDDLE OF THE BEDDING EQUAL TO 1/3RD OF THE PIPE O.D. MAY BE LOOSELY PLACED, WHILE THE REMAINDER SHALL BE COMPACTED TO A MINIMUM 90% OF MAXIMUM DENSITY PER AASHTO T99. A MINIMUM OF 4" OF BEDDING SHALL BE PROVIDED PRIOR TO PLACEMENT OF THE PIPE , UNLESS A UNYIELDING MATERIAL (ROCK CUTS) IS PRESENT IN THE TRENCH BOTTOM, THEN A 6" CUSHION OF BEDDING IS RECOMMENDED. BEDDING MATERIAL SIZE SHALL BE 1.25" MAXIMUM GRANULAR MATERIAL.

D. STRUCTURAL BACKFILL:
STRUCTURAL BACKFILL SHALL ALSO MEET THE REQUIREMENTS OF AASHTO M 145, A-1, A-2-4, A-2-5, OR A-3. STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS 8" LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY AND SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE TO AN ELEVATION NOT LESS THAN ONE (1') FOOT ABOVE THE TOP OF THE PIPE. STRUCTURAL BACKFILL MUST BE WORKED INTO THE HAUNCH AREA AND COMPACTED BY HAND. STRUCTURAL BACKFILL SHALL BE 1.25" MAXIMUM GRANULAR SIZE AND A MINIMUM COMPACTION LEVEL OF 90% STANDARD PROCTOR DENSITY PER AASHTO T99 SHALL BE ACHIEVED.

E. MINIMUM COVER:
THE MINIMUM COVER IS ONE FOOT (1.0') FOR HS-25 LIVE LOADS (4"-36" DIAMETERS) AND ONE AND ONE HALF FOOT FOR (1.5') FOR LARGER DIAMETER STRUCTURES (42"-60" DIAMETERS); HOWEVER, CARE SHOULD BE TAKEN WHEN HEAVY CONSTRUCTION EQUIPMENT LOADS CROSS THE PIPE TRENCH DURING CONSTRUCTION. IF THE PASSAGE OF CONSTRUCTION EQUIPMENT OVER AN INSTALLED PIPELINE IS NECESSARY DURING PROJECT CONSTRUCTION, COMPACTED FILL IN THE FORM OF A RAMP SHALL BE CONSTRUCTED TO A MINIMUM ELEVATION OF THREE (3.0') FEET OVER THE TOP OF THE PIPE. ANY DAMAGED PIPE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

HIGH DENSITY POLETHYLENE (HDPE) CORRUGATED AND SMOOTH LINED THERMOPLASTIC PIPE SPECIFICATION:
(FOR GRAVITY FLOW DRAINAGE PIPE APPLICATIONS)

E. JOINTS:
JOINTS SHALL BE INSTALLED THAT THE CONNECTION OF PIPE SECTIONS WILL FORM A CONTINUOUS LINE FREE FROM IRREGULARITIES IN THE FLOW LINE. JOINTS SHALL MEET THE SOILTIGHTNESS DEFINITION IN ACCORDANCE WITH AASHTO SECTION 26.4.2.4; SUITABLE JOINTS ARE THE FOLLOWING:

1.) INTEGRAL BELL-N-SPIGOT:
THE BELL SHALL OVERLAP A MINIMUM OF TWO (2) CORRUGATIONS OF THE SPIGOT END WHEN FULLY ENGAGED . THE SPIGOT END SHALL HAVE AN "O"-RING GASKET THAT MEETS ASTM F 477, "SPECIFICATION FOR ELASTOMERIC SEALS (GASKETS) FOR JOINING PLASTIC PIPE".

2.) EXTERIOR BELL-N-SPIGOT:
THE BELL SHALL BE FULLY WELDED TO THE EXTERIOR OF THE PIPE AND OVERLAP THE SPIGOT END SO THAT FLOW LINES AND ENDS MATCH WHEN FULLY ENGAGED. THE SPIGOT END SHALL HAVE AN "O"-RING GASKET THAT MEETS ASTM F 477, "SPECIFICATION FOR ELASTOMERIC SEALS (GASKETS) FOR JOINING PLASTIC PIPE".

MEASUREMENT AND PAYMENT:

THIS ITEM SHALL BE MEASURED FOR PAYMENT BY THE LINEAR FOOT. SUCH MEASUREMENTS SHALL BE MADE BETWEEN THE ENDS OF THE BARREL ALONG ITS FLOW LINE. FOR MULTIPLE PIPES, THE MEASURED LENGTH SHALL BE THE SUM OF THE LENGTHS OF THE BARRELS, MEASURED AS DESCRIBED ABOVE. PIPE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT, COMPLETE IN PLACE, AS PROVIDED BY THE PROPOSAL AND CONTRACT. THE CONTRACT PRICE PER LINEAR FOOT SHALL BE THE TOTAL COMPENSATION FOR THE FURNISHING OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK INCLUDING EXCAVATION, BACKFILL, AND DISPOSAL OF SURPLUS MATERIALS IN ACCORDANCE WITH THE PLANS AND THESE SPECIFICATIONS.

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

GENERAL NOTES

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCC1	08/01	1"=100'		TE-GNOTES	3

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects_Tolleson2\TE2-GNOTES.DWG 1:1m

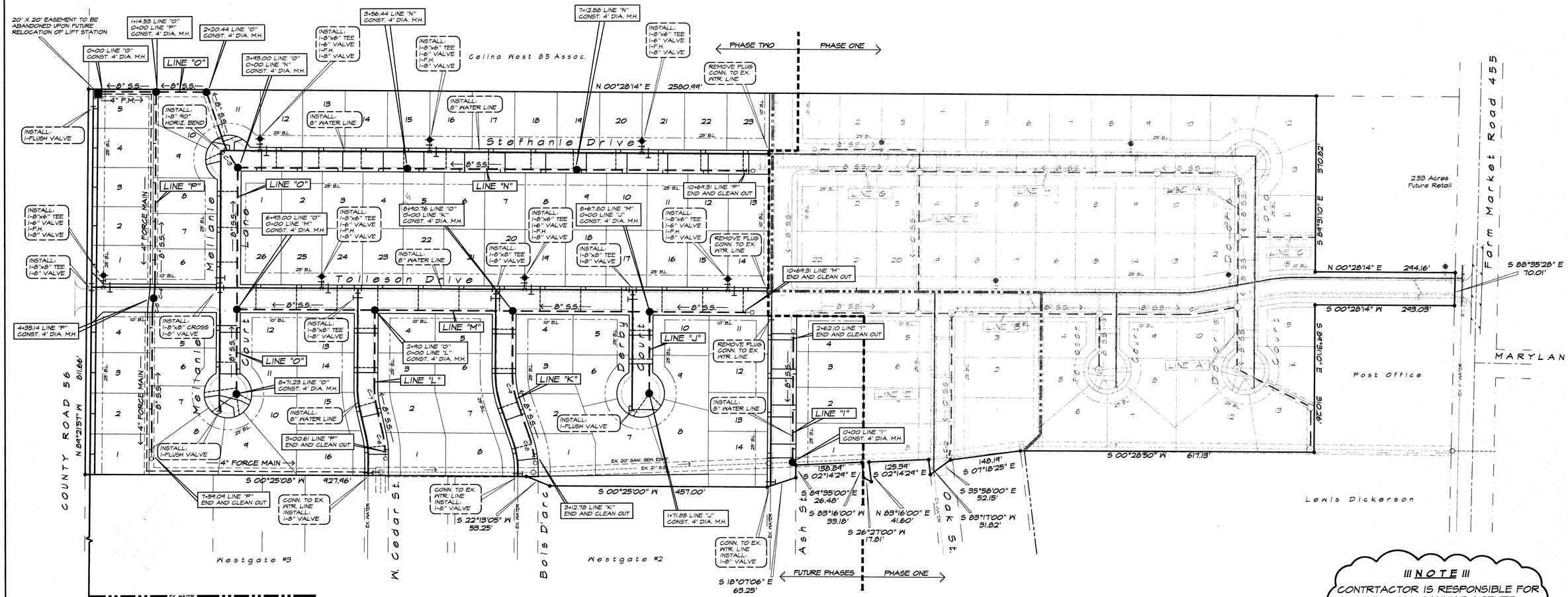
P-200108-01

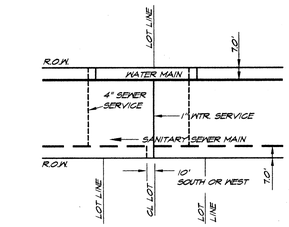
PHASE 2 - CELINA, TEXAS

TOLLESON ESTATES

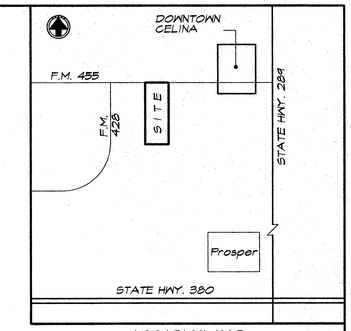
100 50 0 100 200

1" = 100'





UTILITY LOCATION DETAIL



LOCATION MAP
(NOT TO SCALE)

SANITARY SEWER LINE CURVE DATA						
CURVE	RADIUS	DELTA	TANGENT	LENGTH	P.C. STA.	P.T. STA.
C-1	323.00'	10°24'01"	29.40'	58.65'	0+61.94	1+20.59
C-2	200.00'	11°11'44"	19.80'	39.08'	0+00.00	0+39.08
C-3	200.00'	21°15'20"	37.53'	74.20'	3+18.80	3+93.00
C-4	200.00'	08°39'05"	15.10'	30.14'	4+05.00	4+35.14
C-5	200.00'	08°37'46"	15.04'	30.12'	4+35.14	4+65.26
C-6	200.00'	27°47'46"	49.44'	97.03'	0+00.00	0+97.03
C-7	182.00'	13°28'33"	21.50'	42.81'	1+38.33	1+81.14
C-8	200.00'	23°48'06"	42.15'	83.08'	0+00.00	0+83.08
C-9	182.00'	19°42'51"	31.63'	62.63'	1+52.72	2+15.35

NOTES:

1. ALL CONSTRUCTION PER N.T.C.O.G. STANDARD SPECIFICATIONS AND DETAILS
2. ALL WATER LINE AND SANI. SEW. MAINS 8" UNLESS NOTED OTHERWISE.

LEGEND

- 8" WATER LINE
- FIRE HYDRANT
- SANITARY SEWER LINE
- MANHOLE

!!! NOTE !!!

CONTRTACTOR IS RESPONSIBLE FOR ASSURING ALL SANITARY SEWER LATERALS ARE INSTALLED TO CLEAR PROPOSED STORM SEWER

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BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

WATER AND SANITARY SEWER PLAN

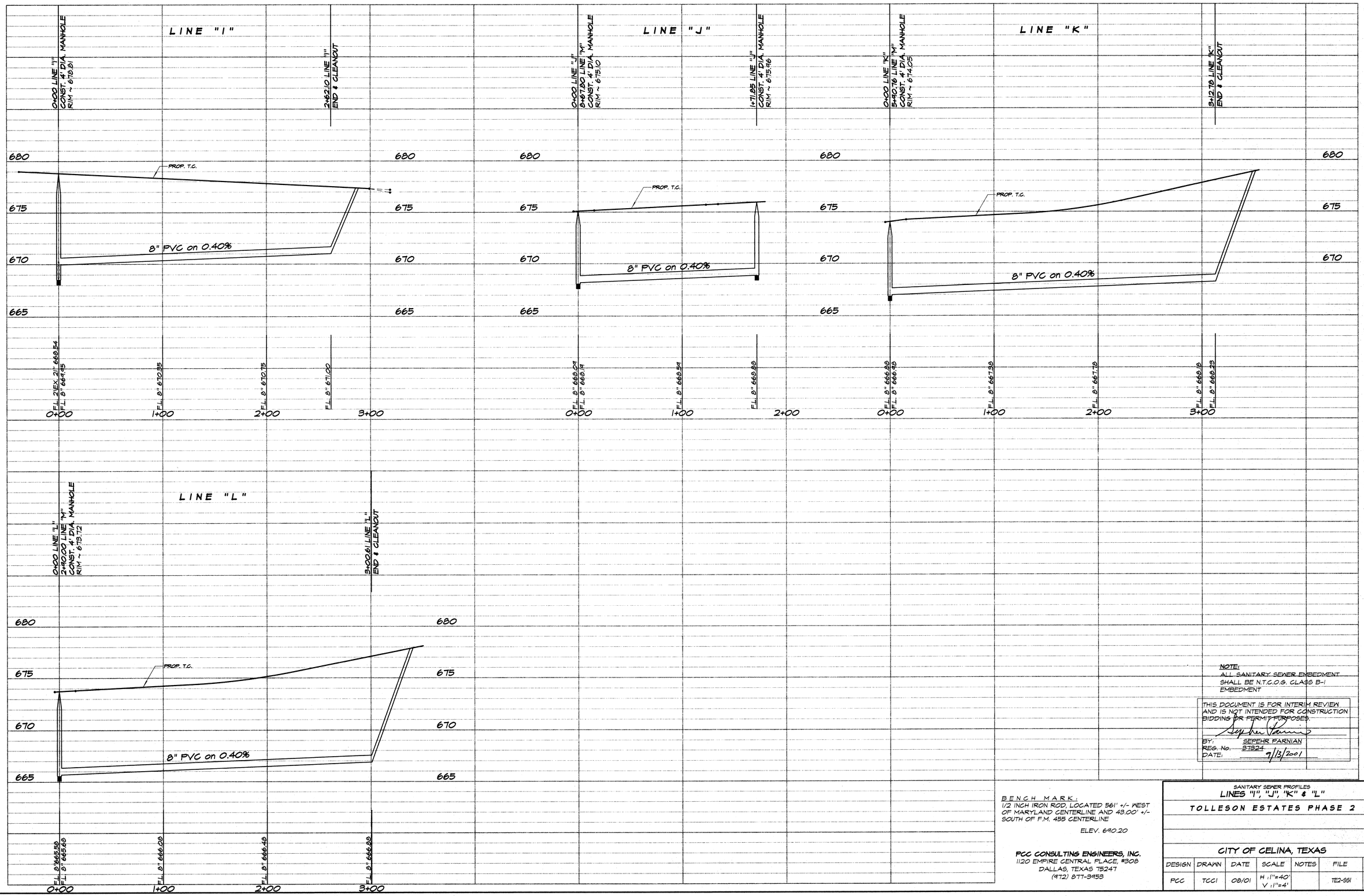
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	1"=100'		TE2-WSS	4

P-200108-01

C:_projects_Xtolleson2\Te2-wss.dwg jim



NOTE:
ALL SANITARY SEWER EMBEDMENT SHALL BE N.T.C.O.G. CLASS B-1 EMBEDMENT

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BY: SEPEHR PARNIAN
REG. No. 87824
DATE: 9/13/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

SANITARY SEWER PROFILES
LINES "I", "J", "K" & "L"

TOLLESON ESTATES PHASE 2

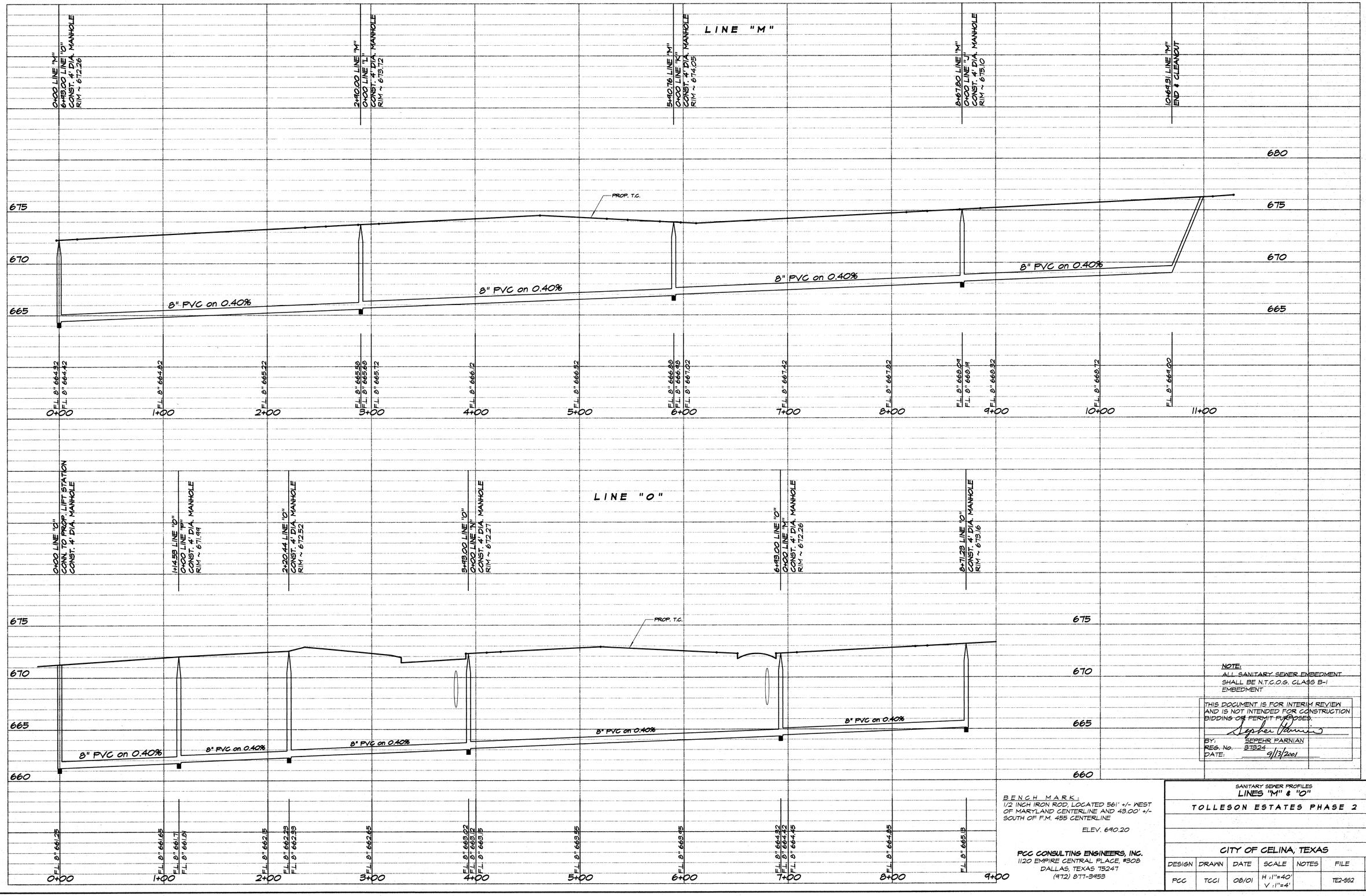
CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	H :1"=40' V :1"=4'		TE2-SS1	5

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_pmprojects-_\tolleson2\TE2-SS1.DWG jim

P-200108-01



NOTE:
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REG. No. 87824
DATE: 9/13/2001

BENCH MARK:
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ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

SANITARY SEWER PROFILES
LINES "M" & "O"

TOLLESON ESTATES PHASE 2

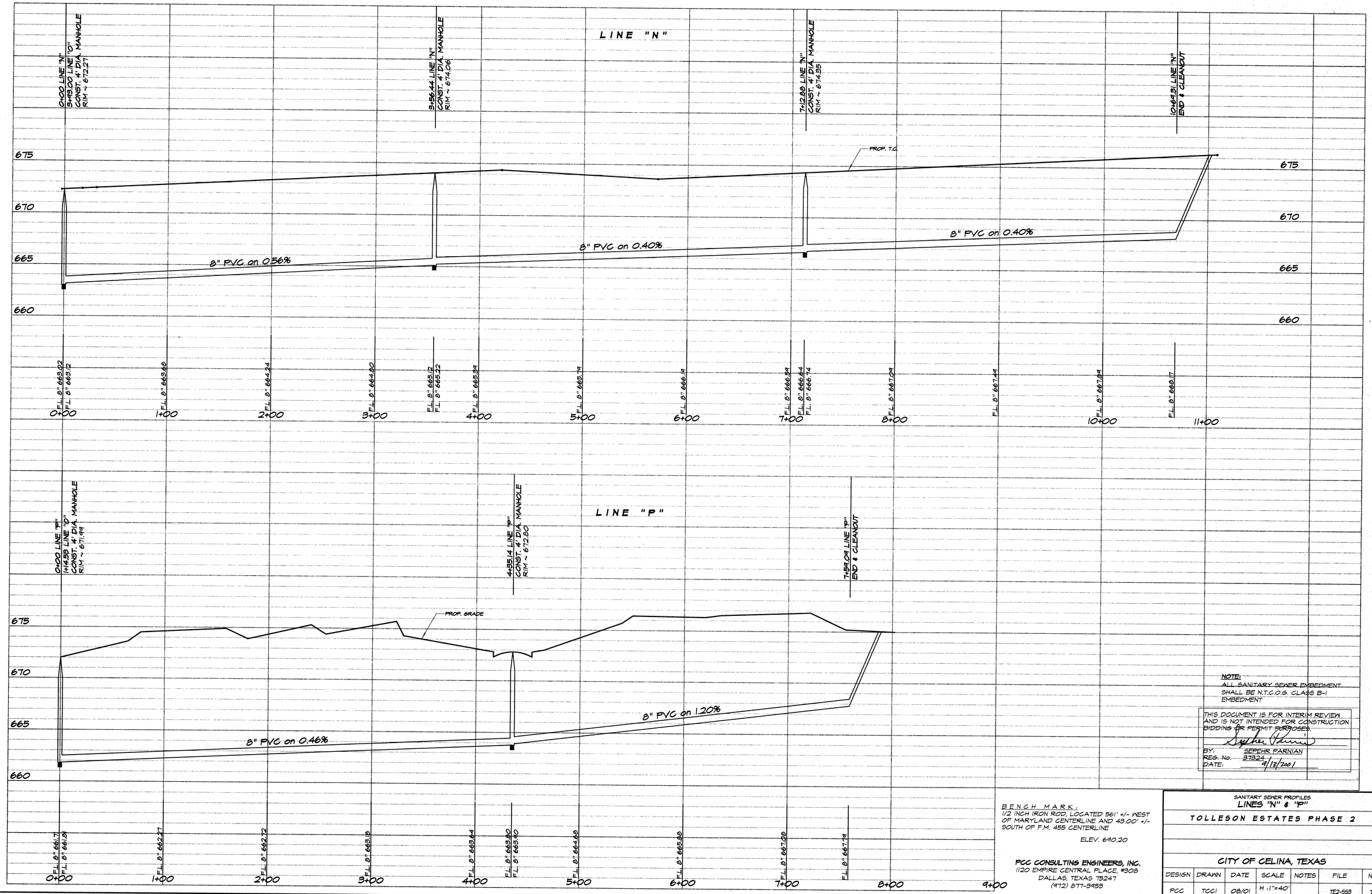
CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	H: 1"=40' V: 1"=4'		TE2-SS2	6

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects_tolleson2\TE2-SS2.dwg jim

P-200108-01



NOTE:
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BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3953

SANITARY SEWER PROFILES
LINES "N" & "P"

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	H :1"=40' V :1"=4'		TE2-SS3	7

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

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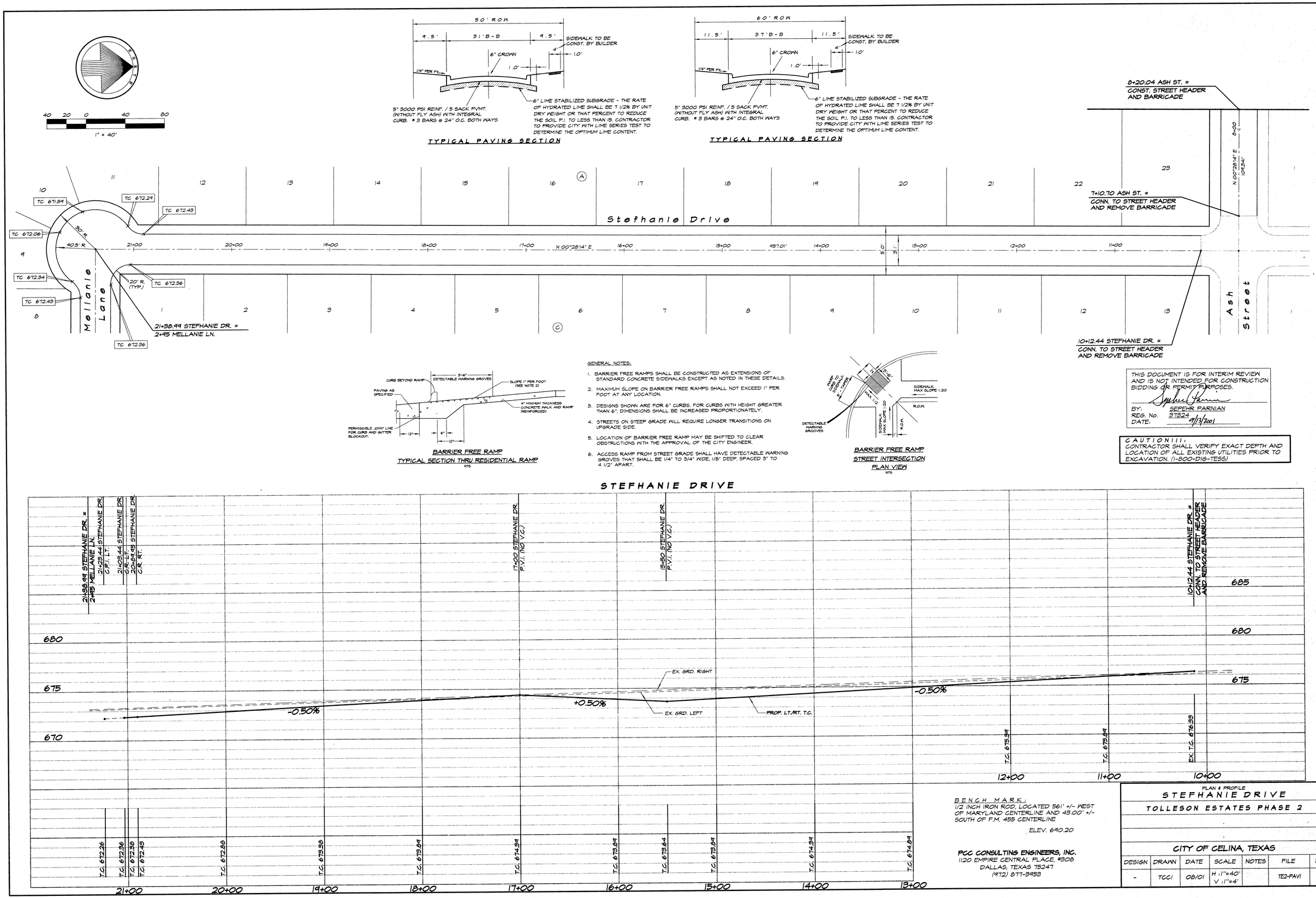
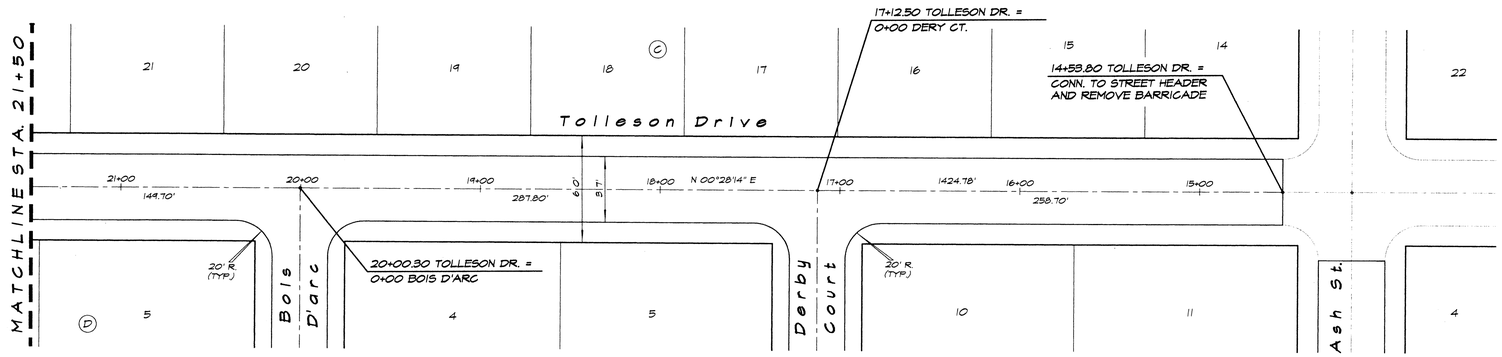
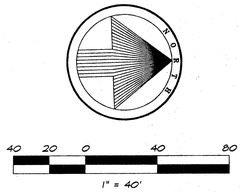
P-200108-01


NORTH
40 20 0 40 80
1" = 40'
50' ROW
9.5' 31'B-B 9.5'
SIDEWALK TO BE CONST. BY BUILDER
4' 1.0'
6" CROWN
1.0'
1/4" PER FT.
5" 3000 PSI REINF. / 5 SACK PVMT. (WITHOUT FLY ASH) WITH INTEGRAL CURB. # 3 BARS @ 24" O.C. BOTH WAYS
6" LIME STABILIZED SUBGRADE - THE RATE OF HYDRATED LIME SHALL BE 7 1/2% BY UNIT DRY WEIGHT OR THAT PERCENT TO REDUCE THE SOIL P.I. TO LESS THAN 15. CONTRACTOR TO PROVIDE CITY WITH LIME SERIES TEST TO DETERMINE THE OPTIMUM LIME CONTENT.
TYPICAL PAVING SECTION
60' ROW
11.5' 37'B-B 11.5'
SIDEWALK TO BE CONST. BY BUILDER
4' 1.0'
6" CROWN
1.0'
1/4" PER FT.
5" 3000 PSI REINF. / 5 SACK PVMT. (WITHOUT FLY ASH) WITH INTEGRAL CURB. # 3 BARS @ 24" O.C. BOTH WAYS
6" LIME STABILIZED SUBGRADE - THE RATE OF HYDRATED LIME SHALL BE 7 1/2% BY UNIT DRY WEIGHT OR THAT PERCENT TO REDUCE THE SOIL P.I. TO LESS THAN 15. CONTRACTOR TO PROVIDE CITY WITH LIME SERIES TEST TO DETERMINE THE OPTIMUM LIME CONTENT.
TYPICAL PAVING SECTION
8+20.04 ASH ST. = CONST. STREET HEADER AND BARRICADE
7+10.70 ASH ST. = CONN. TO STREET HEADER AND REMOVE BARRICADE
N 00°28'14" E 1043.41'
Stephanie Drive
TC 671.89
TC 672.29
TC 672.43
TC 672.06
50' R.
40.5' R.
N 00°28'14" E
457.01'
TC 672.34
TC 672.43
20' R. (TYP.)
TC 672.36
TC 672.36
Mellanie Lane
21+38.99 STEFANIE DR. = 2+45 MELLANIE LN.
10+12.44 STEFANIE DR. = CONN. TO STREET HEADER AND REMOVE BARRICADE
Ash Street
CURB BEYOND RAMP
DETECTABLE WARNING GROVES
SLOPE 1" PER FOOT (SEE NOTE 2)
PAVING AS SPECIFIED
4" MINIMUM THICKNESS CONCRETE WALK AND RAMP (REINFORCED)
PERMISSIBLE JOINT LINE FOR CURB AND GUTTER BLOCKOUT.
BARRIER FREE RAMP
TYPICAL SECTION THRU RESIDENTIAL RAMP
NTS
GENERAL NOTES:
1. BARRIER FREE RAMPS SHALL BE CONSTRUCTED AS EXTENSIONS OF STANDARD CONCRETE SIDEWALKS EXCEPT AS NOTED IN THESE DETAILS.
2. MAXIMUM SLOPE ON BARRIER FREE RAMPS SHALL NOT EXCEED 1" PER FOOT AT ANY LOCATION.
3. DESIGNS SHOWN ARE FOR 6" CURBS. FOR CURBS WITH HEIGHT GREATER THAN 6", DIMENSIONS SHALL BE INCREASED PROPORTIONATELY.
4. STREETS ON STEEP GRADE WILL REQUIRE LONGER TRANSITIONS ON UPGRADE SIDE.
5. LOCATION OF BARRIER FREE RAMP MAY BE SHIFTED TO CLEAR OBSTRUCTIONS WITH THE APPROVAL OF THE CITY ENGINEER.
6. ACCESS RAMP FROM STREET GRADE SHALL HAVE DETECTABLE WARNING GROVES THAT SHALL BE 1/4" TO 3/4" WIDE, 1/8" DEEP, SPACED 3" TO 4 1/2" APART.
RAMP CURB TO SIDEWALK 8-1 TAPER
SIDEWALK MAX SLOPE 1:20
R.O.W.
DETECTABLE WARNING GROVES
BARRIER FREE RAMP
STREET INTERSECTION
PLAN VIEW
NTS
THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.
BY: SEFEHR PARNIAN
REG. No. 91324
DATE: 9/13/2001
CAUTION!!!: CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. (1-800-DIG-TESS)
STEFANIE DRIVE
21+38.99 STEFANIE DR. = 2+45 MELLANIE LN.
21+23.44 STEFANIE DR. C.R. LT.
21+09.44 STEFANIE DR. C.R. LT.
20+84.93 STEFANIE DR. C.R. RT.
17+00 STEFANIE DR. P.V.I. (NO VC)
15+50 STEFANIE DR. P.V.I. (NO VC)
10+12.44 STEFANIE DR. = CONN. TO STREET HEADER AND REMOVE BARRICADE
685
680
675
670
EX. GRD. RIGHT
EX. GRD. LEFT
PROP. LT./RT. T.G.
-0.50%
+0.50%
-0.50%
T.G. 672.26
T.G. 672.36
T.G. 672.36
T.G. 672.43
T.G. 672.88
T.G. 673.88
T.G. 673.84
T.G. 674.94
T.G. 673.84
T.G. 673.64
T.G. 673.84
T.G. 674.94
T.G. 674.84
T.G. 675.94
T.G. 675.84
EX. T.G. 676.93
21+00 20+00 19+00 18+00 17+00 16+00 15+00 14+00 13+00 12+00 11+00 10+00
BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE
ELEV. 690.20
PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453
PLAN & PROFILE
STEFANIE DRIVE
TOLLESON ESTATES PHASE 2
CITY OF CELINA, TEXAS
DESIGN | DRAWN | DATE | SCALE | NOTES | FILE | NO.
- | TCCI | 08/01 | H :1"=40' V :1"=4' | | TE2-PAVI | 8
TOLLESON ESTATES PHASE 2
C:_projects_tolleson2\TE2-PAVI.dwg 1:1m
P-200108-01





CAUTION!!!
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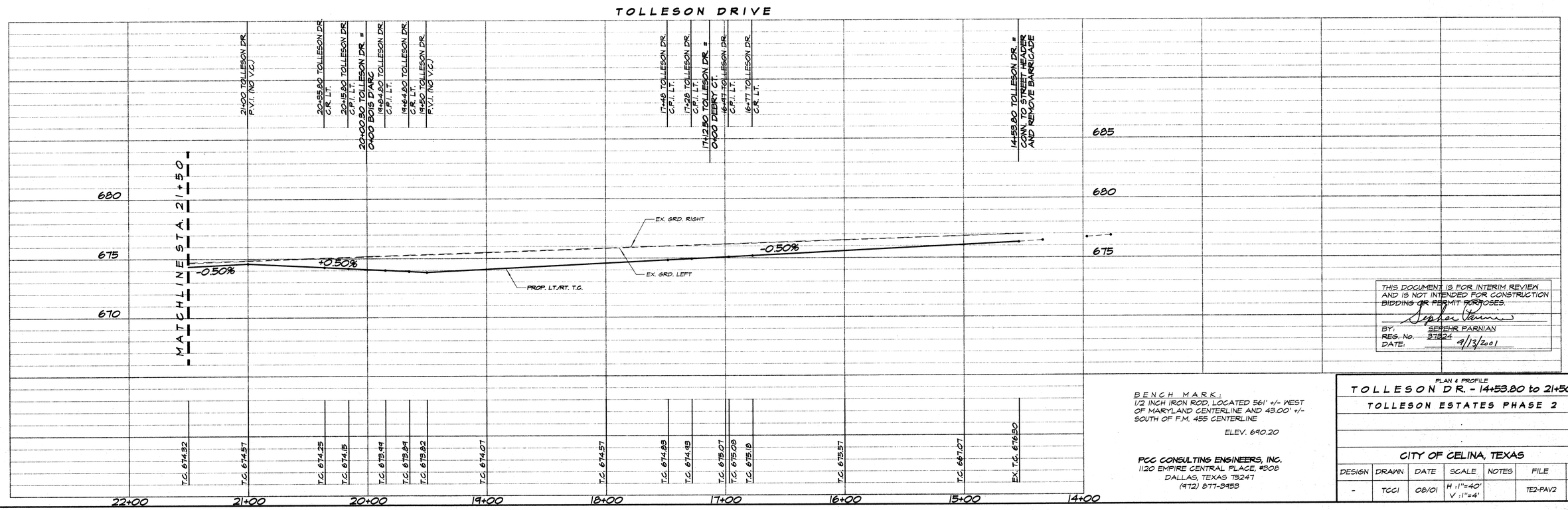

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BY: SEPEHR PARNIAN
REG. No. 37824
DATE. 9/13/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
TOLLESON DR. - 14+53.80 to 21+50

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-PAV2	9

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

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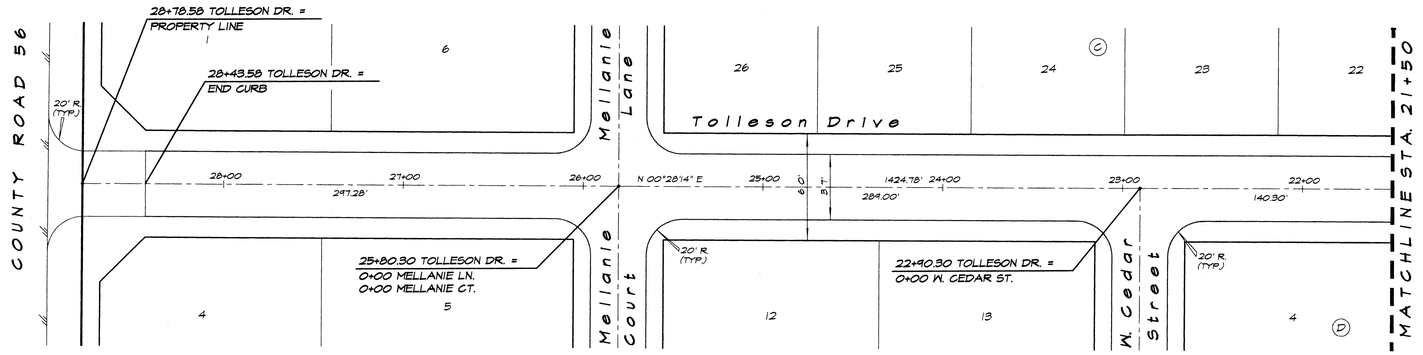
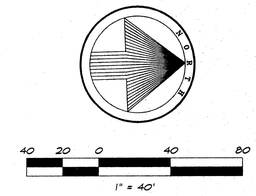
P-200108-01





CAUTION!!!:
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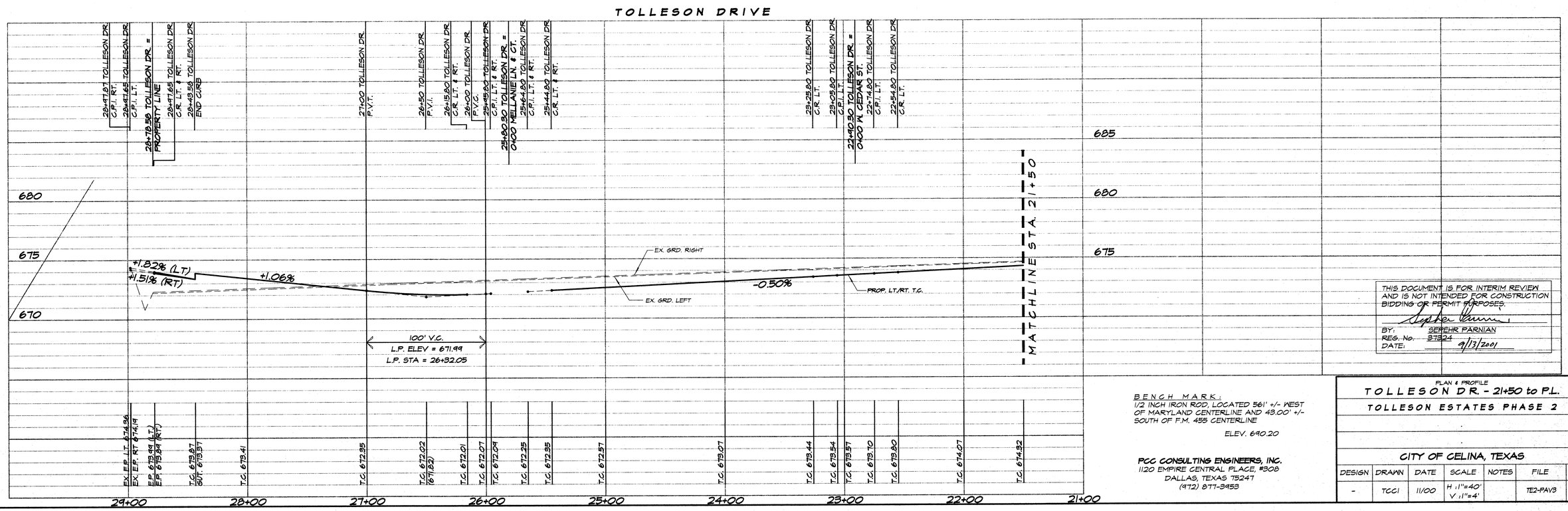

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BY: SEPEHR PARNIAN
REG. No. 87824
DATE: 9/13/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
TOLLESON DR. - 21+50 to P.L.
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

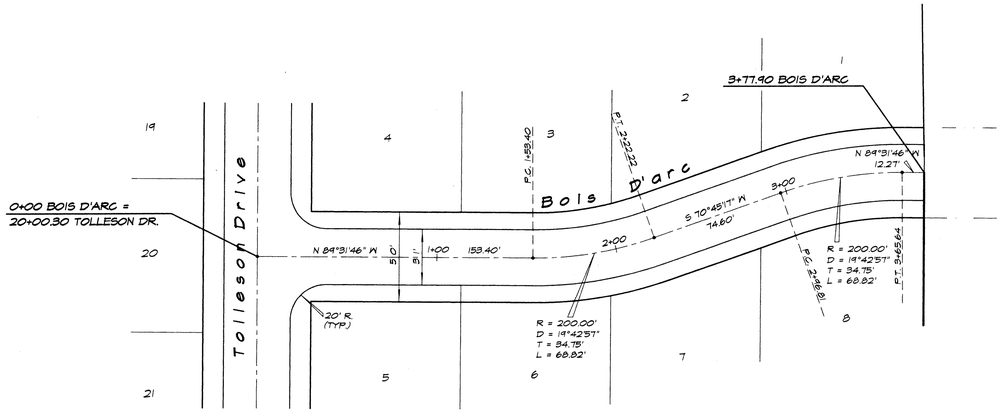
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	11/00	H :1"=40' V :1"=4'		TE2-PAV3	10

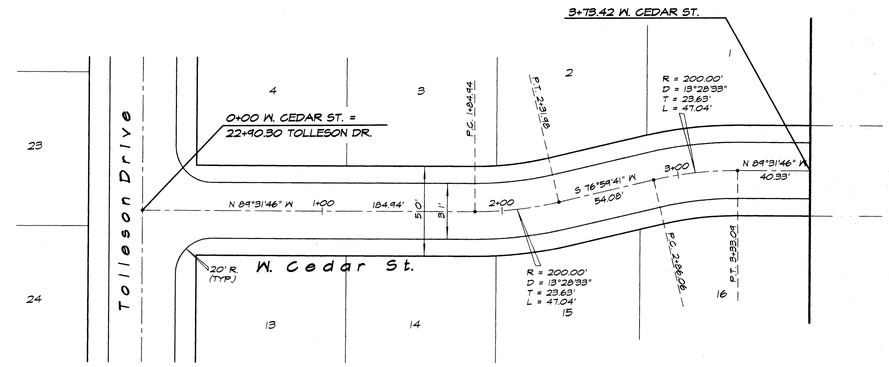
TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects_1\tolleson2\TE2-PAV3.dwg jim

P-200108-01

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

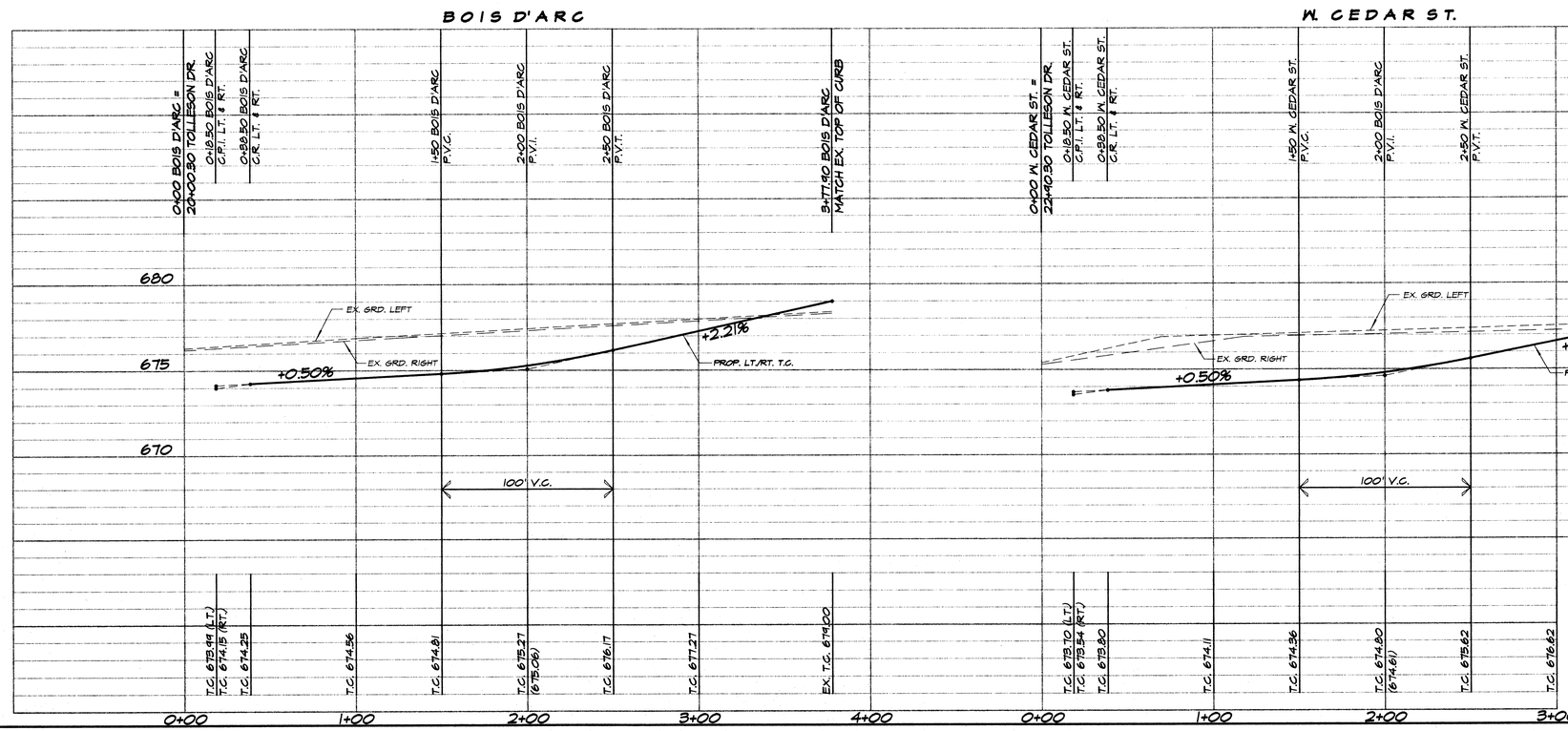


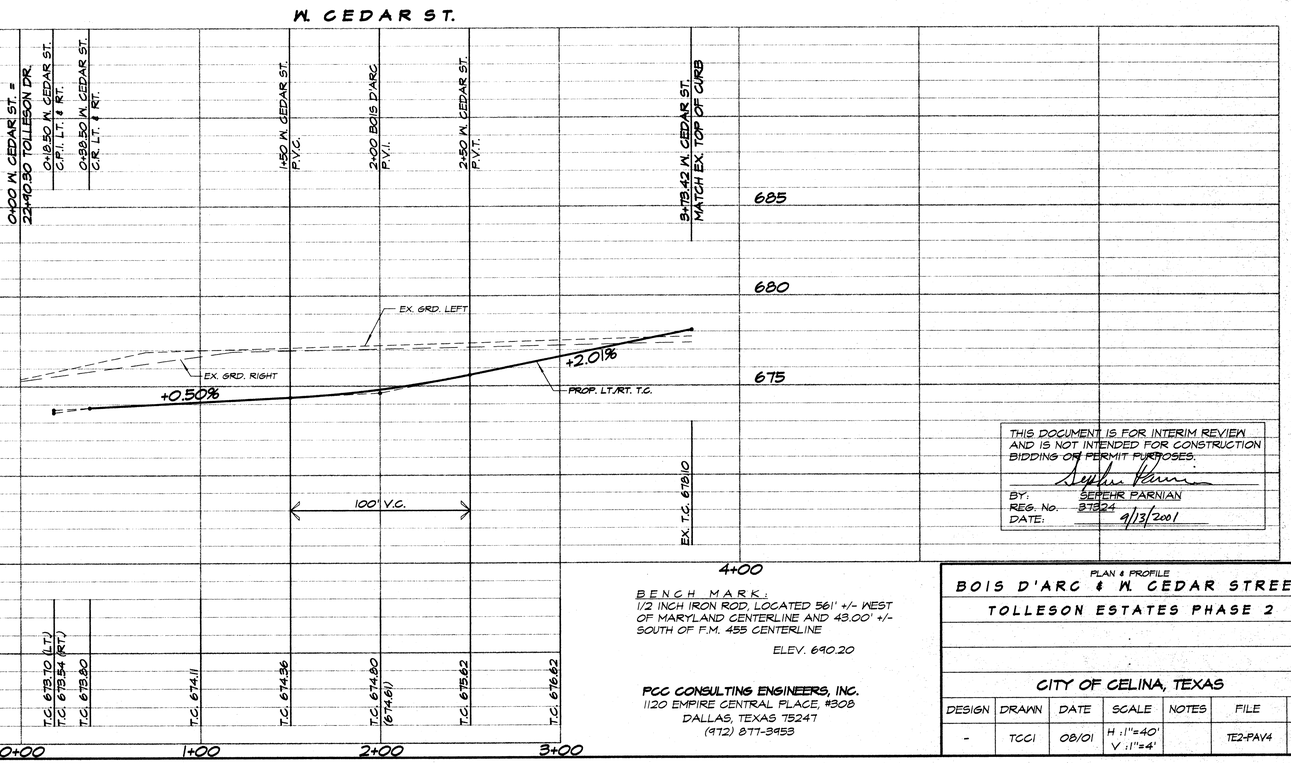


40 20 0 40 80

1" = 40'

CAUTION!!!:
CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. (1-800-DIG-TESS)





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BY: SEPEHR PARNIAN
REG. No. 87524
DATE: 9/13/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

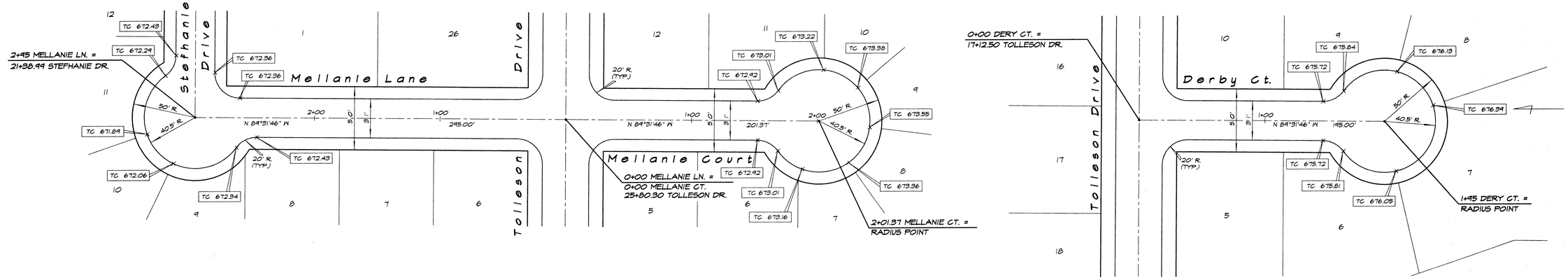
PLAN & PROFILE
BOIS D'ARC & W. CEDAR STREET
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-PAV4	11

C:_projects_\tolleson2\TE2-PAV4.dwg jim

P-200108-01



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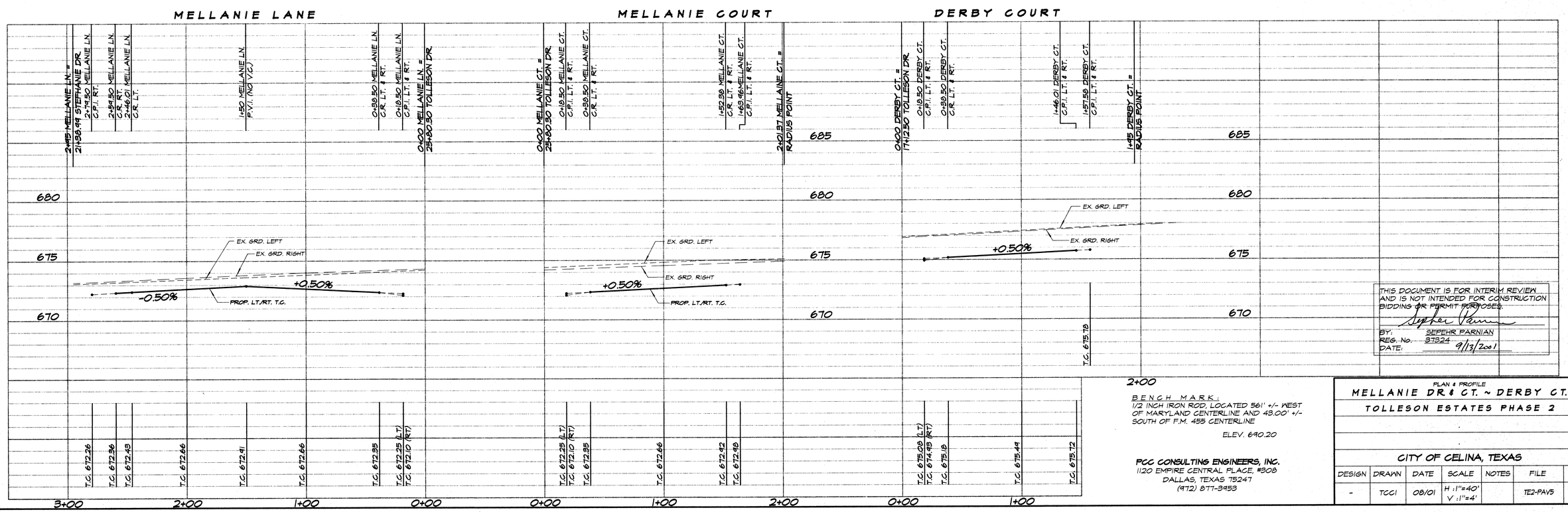

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BY: SEPEHR PARNIAN
REG. No. 87324
DATE: 9/13/2001

2+00

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
MELLANIE DR. & CT. ~ DERBY CT.
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

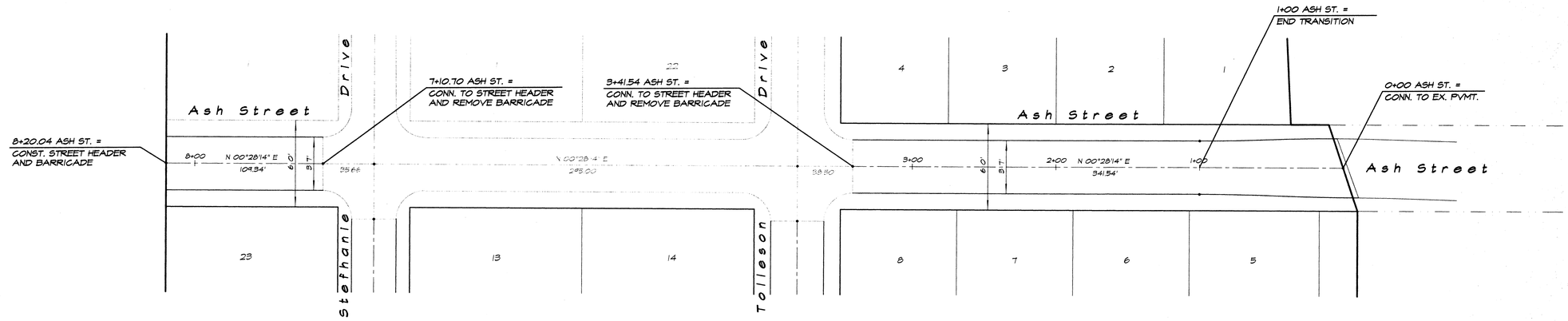
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-PAV5	12

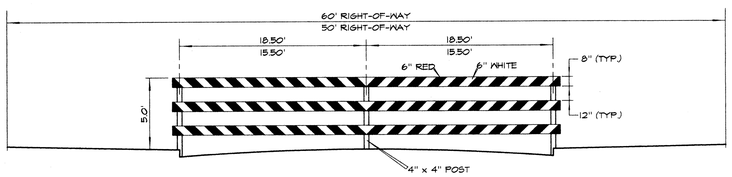
TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects=_\tolleson2\TE2-PAV5.dwg jim

P-200108-01

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

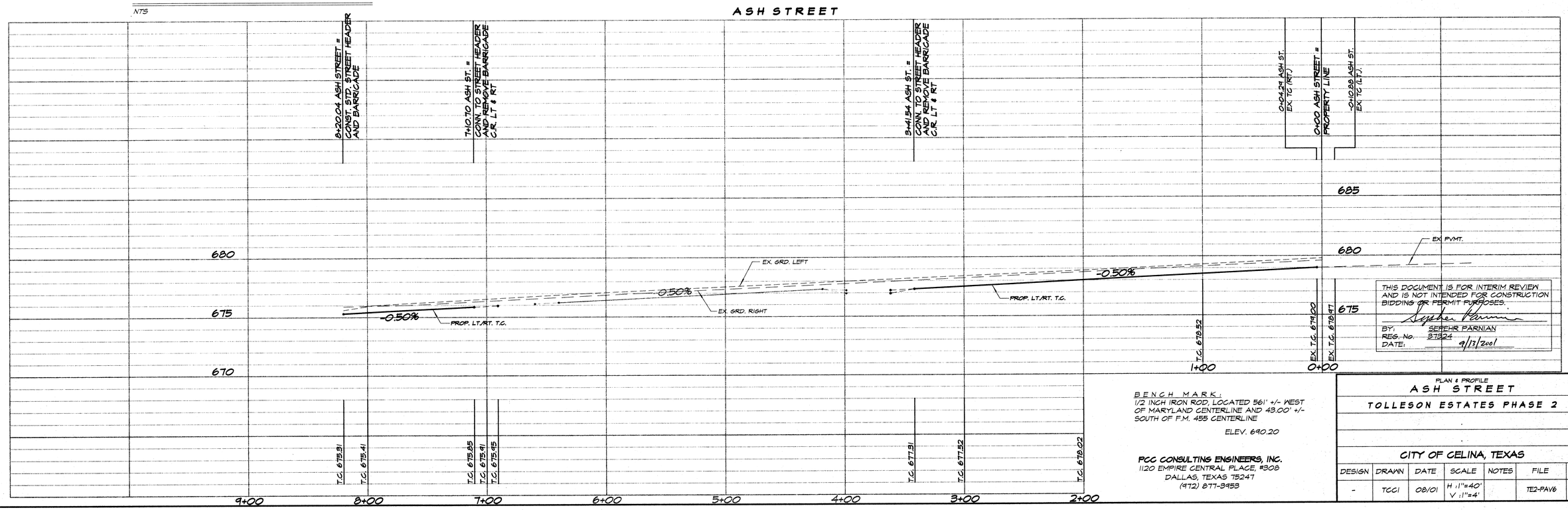




TYPE III BARRICADE DETAIL

NTS

CAUTION!!!
CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. (1-800-DIG-TESS)



THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 87324
DATE: 9/13/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
ASH STREET

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-PAV6	13

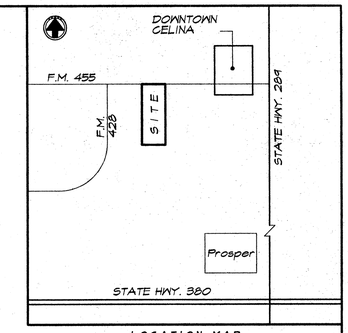
P-200108-01

C:_aprojects=_tolleson2\TE2-PAV6.dwg jim

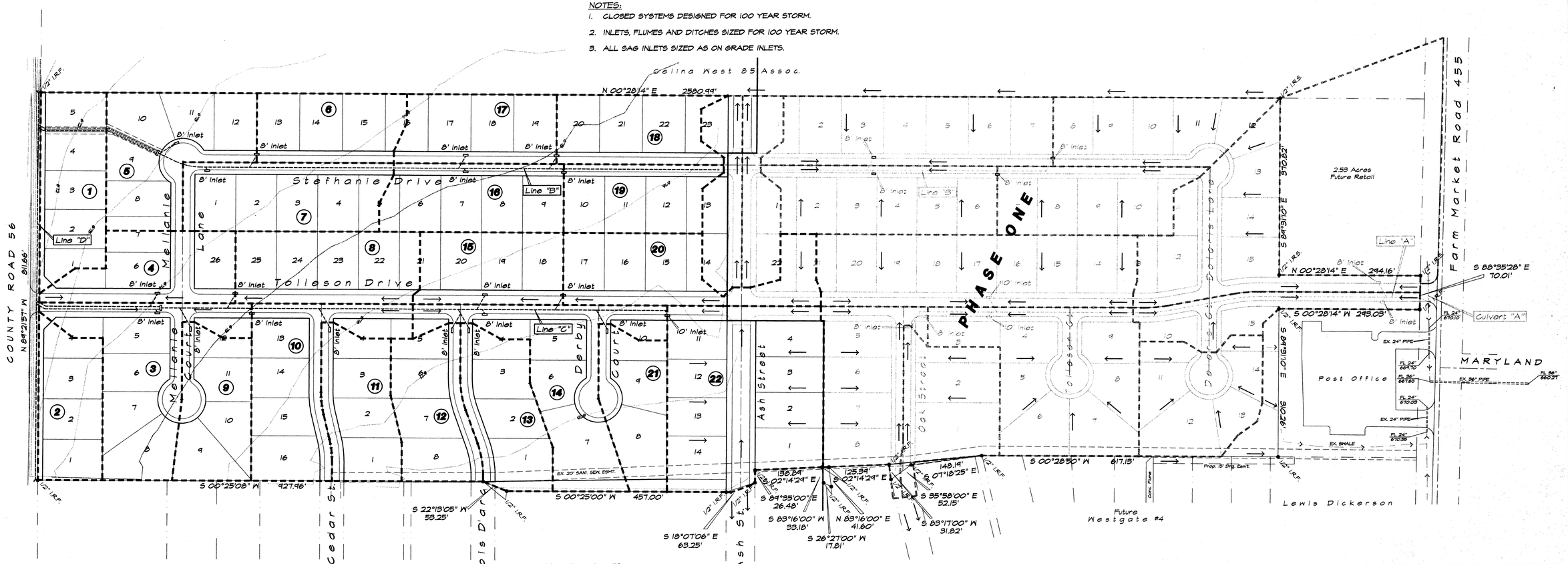
TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

DRAINAGE CALCULATIONS							
AREA NO.	AREA (AC.)	Tc	C	I_{25} IN/HR	Q_{25} C.F.S.	I_{100} IN/HR	Q_{100} C.F.S.
1	1.21	15	0.40	7.80	3.78	9.60	4.65
2	0.96	15	0.40	7.80	3.00	9.60	3.69
3	1.74	15	0.40	7.80	5.43	9.60	6.68
4	1.11	15	0.40	7.80	3.46	9.60	4.26
5	1.58	15	0.40	7.80	4.93	9.60	6.07
6	1.01	15	0.40	7.80	3.15	9.60	3.88
7	1.40	15	0.40	7.80	4.37	9.60	5.38
8	1.32	15	0.40	7.80	4.12	9.60	5.07
9	1.08	15	0.40	7.80	3.37	9.60	4.15
10	1.57	15	0.40	7.80	4.90	9.60	6.03
11	1.05	15	0.40	7.80	3.28	9.60	4.03
12	1.10	15	0.40	7.80	3.43	9.60	4.22
13	1.12	15	0.40	7.80	3.49	9.60	4.30
14	1.80	15	0.40	7.80	5.62	9.60	6.91
15	1.04	15	0.40	7.80	3.24	9.60	3.99
16	1.24	15	0.40	7.80	3.87	9.60	4.76
17	1.07	15	0.40	7.80	3.34	9.60	4.11
18	1.06	15	0.40	7.80	3.31	9.60	4.07
19	1.00	15	0.40	7.80	3.12	9.60	3.84
20	1.41	15	0.40	7.80	4.40	9.60	5.41
21	0.94	15	0.40	7.80	2.93	9.60	3.61
22	2.74	15	0.40	7.80	8.55	9.60	10.52

NOTES:
1. CLOSED SYSTEMS DESIGNED FOR 100 YEAR STORM.
2. INLETS, FLUMES AND DITCHES SIZED FOR 100 YEAR STORM.
3. ALL SAG INLETS SIZED AS ON GRADE INLETS.



LOCATION MAP (NOT TO SCALE)



DESIGN DATA

$Q = C \times I \times A$

$C = 0.40$

$I_{25} = 7.8$ $I_{100} = 9.6$

A = AREA IN ACRES

37' B-B RESIDENTIAL STREET CAPACITY

$n = 0.0175$

$A = 6.0$

$WP = 37.0$

$R = 0.16$

$C = 148 \times S^{1/2}$

$Q = \frac{1.486}{n} \times A \times R^{2/3} \times S^{1/2}$

$R = A/P = 0.16$

31' B-B RESIDENTIAL STREET CAPACITY

$n = 0.0175$

$A = 5.0$

$WP = 31.0$

$R = 0.16$

$C = 123 \times S^{1/2}$

$Q = \frac{1.486}{n} \times A \times R^{2/3} \times S^{1/2}$

$R = A/P = 0.16$

LEGEND

----520----	EXIST. CONTOUR
▬▬▬	DRAINAGE DIVIDE
→	DIRECTION OF FLOW
(1)	DRAINAGE AREA NO.

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3455

DRAINAGE AREA MAP

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	1"=100'		TE-DAM	14

P-200108-01

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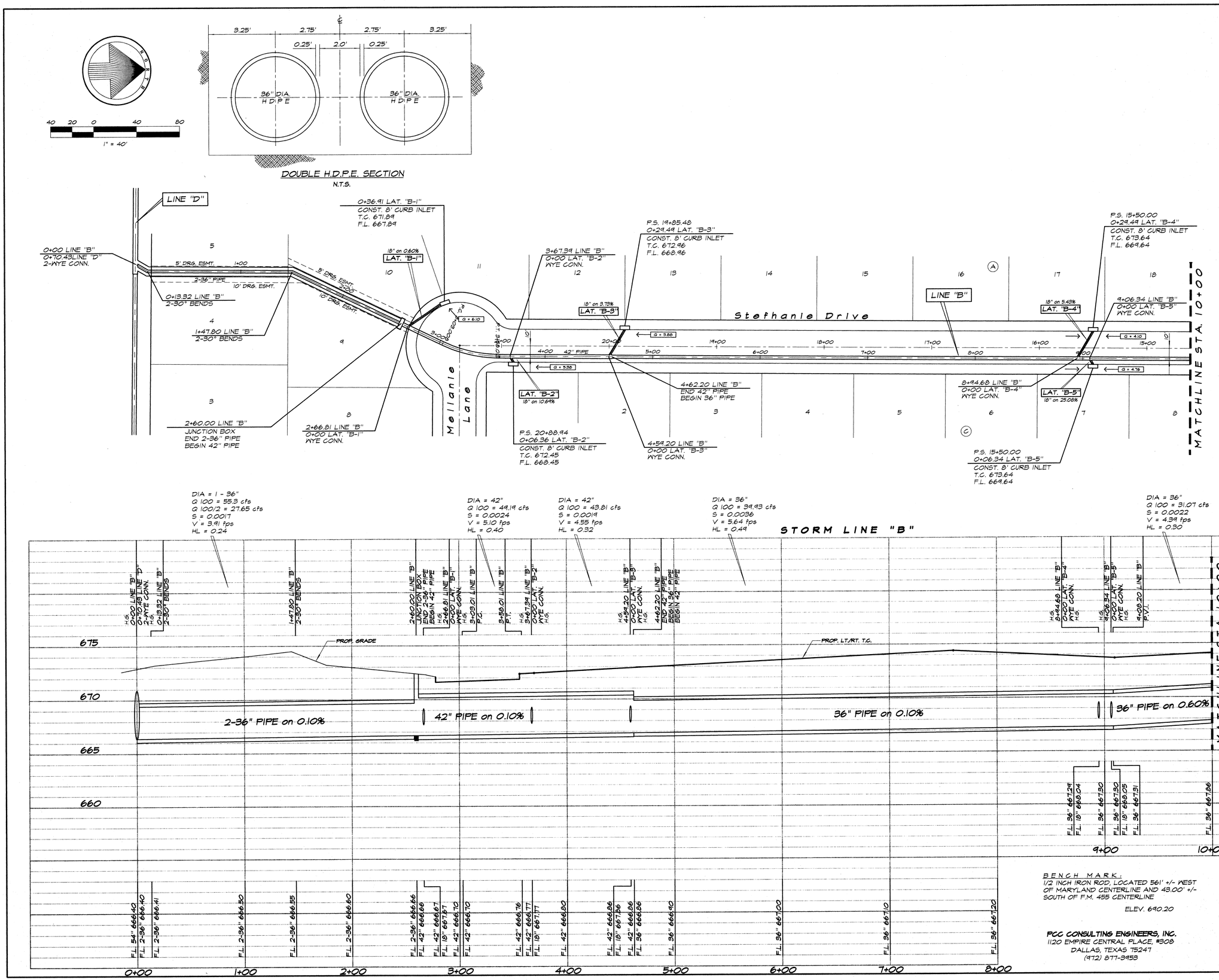

CAUTION!!!:
CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. (1-800-DIG-TESS)

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BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
STORM LINE "B"
TOLLESON ESTATES PHASE 2

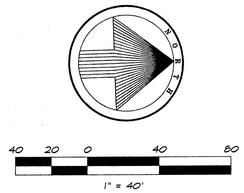
CITY OF CELINA, TEXAS

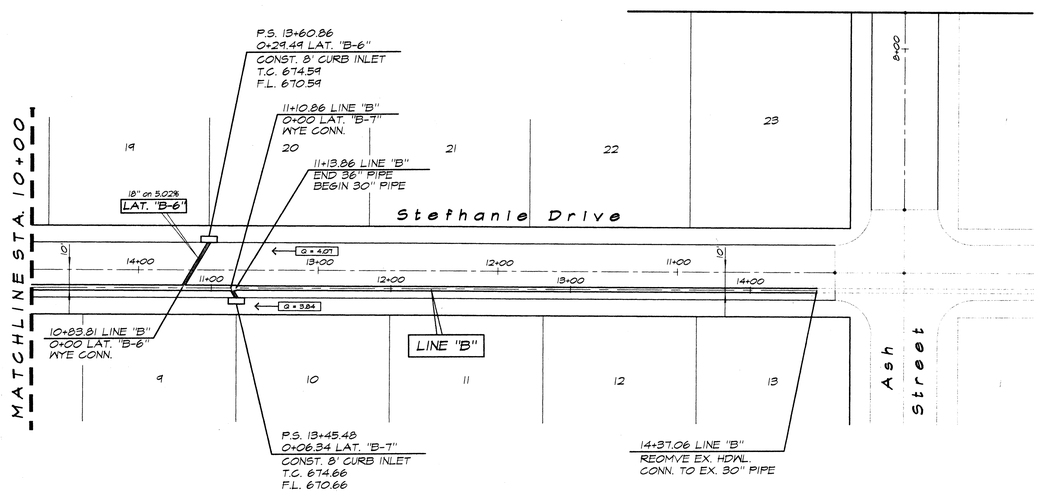
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-stml	15

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

P-200108-01

C:_projects_tolleson2\te2-stml.dwg jim





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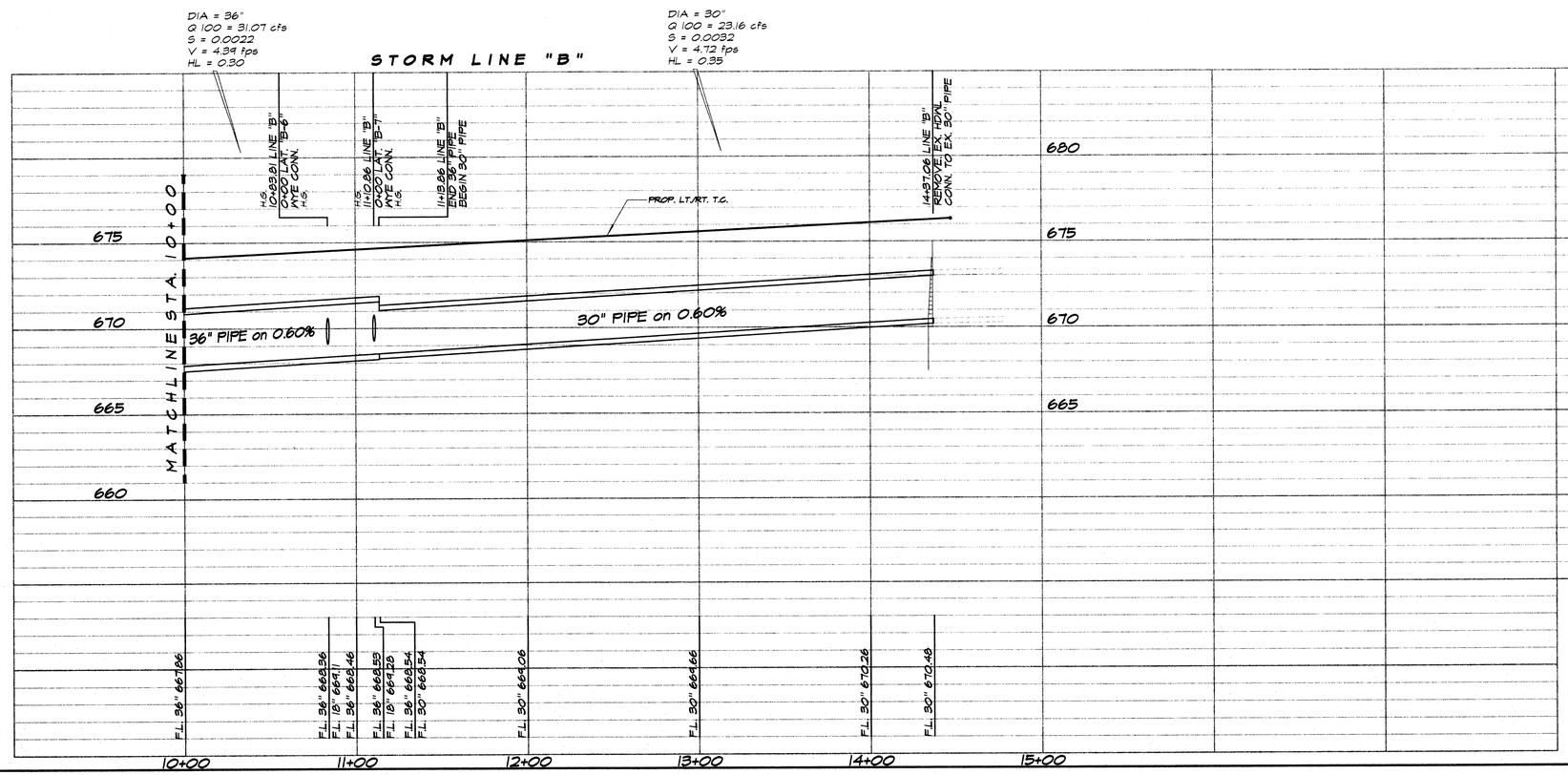

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REG. No: 97324
DATE: 9/13/2001

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ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3953

PLAN & PROFILE
STORM LINE "B"
TOLLESON ESTATES PHASE 2

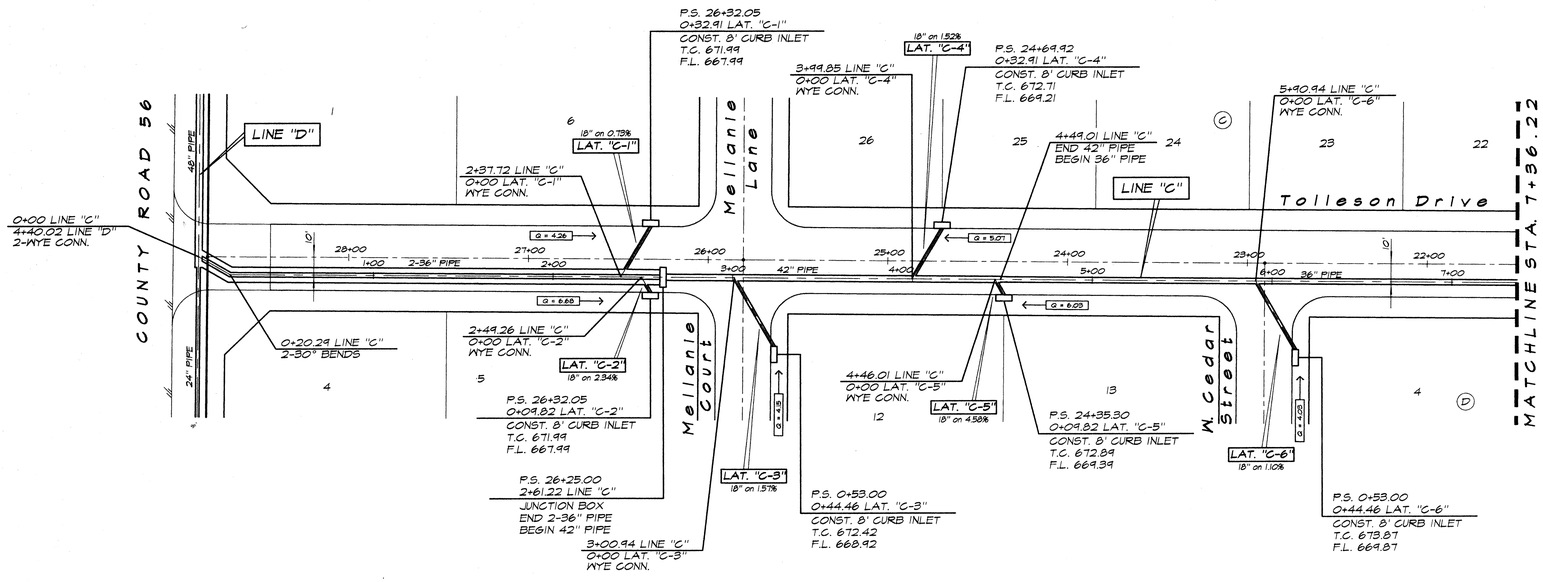
CITY OF CELINA, TEXAS

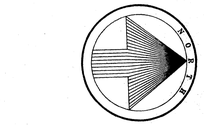
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-stm2	16

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects-_\tolleson2\te2-st#2.dwg jim

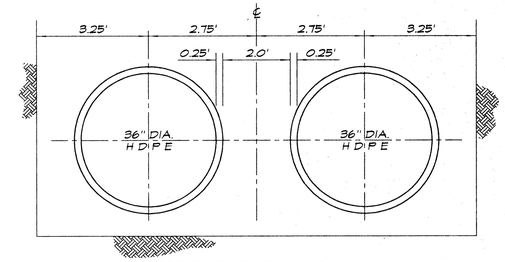
P-200108-01





40 20 0 40 80

1" = 40'



DOUBLE H.D.P.E. SECTION

N.T.S.

CAUTION!!!
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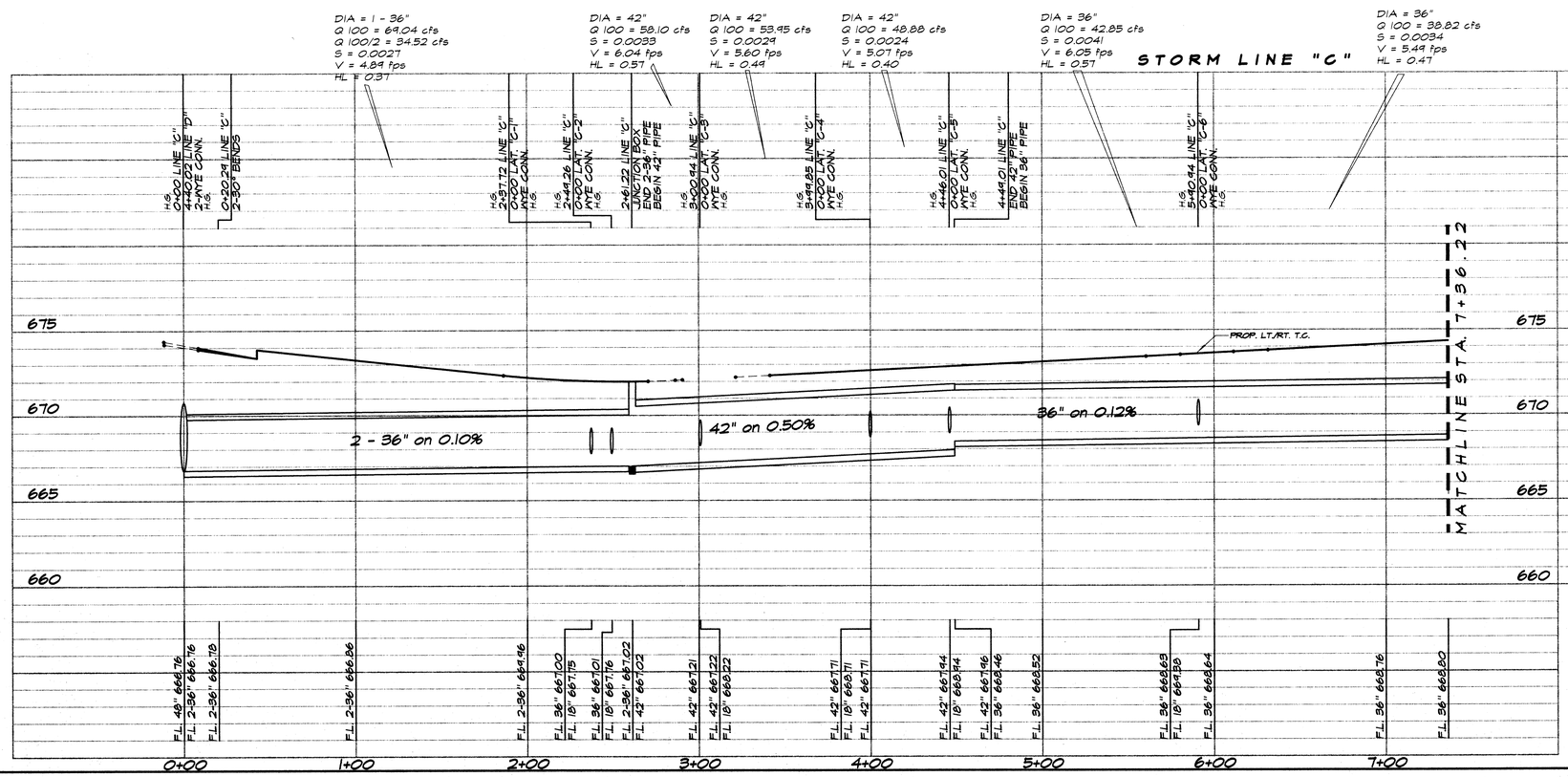

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BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/17/2001

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ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
STORM LINE "C"
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	11/00	H :1"=40' V :1"=4'		TE2-stm3	17

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

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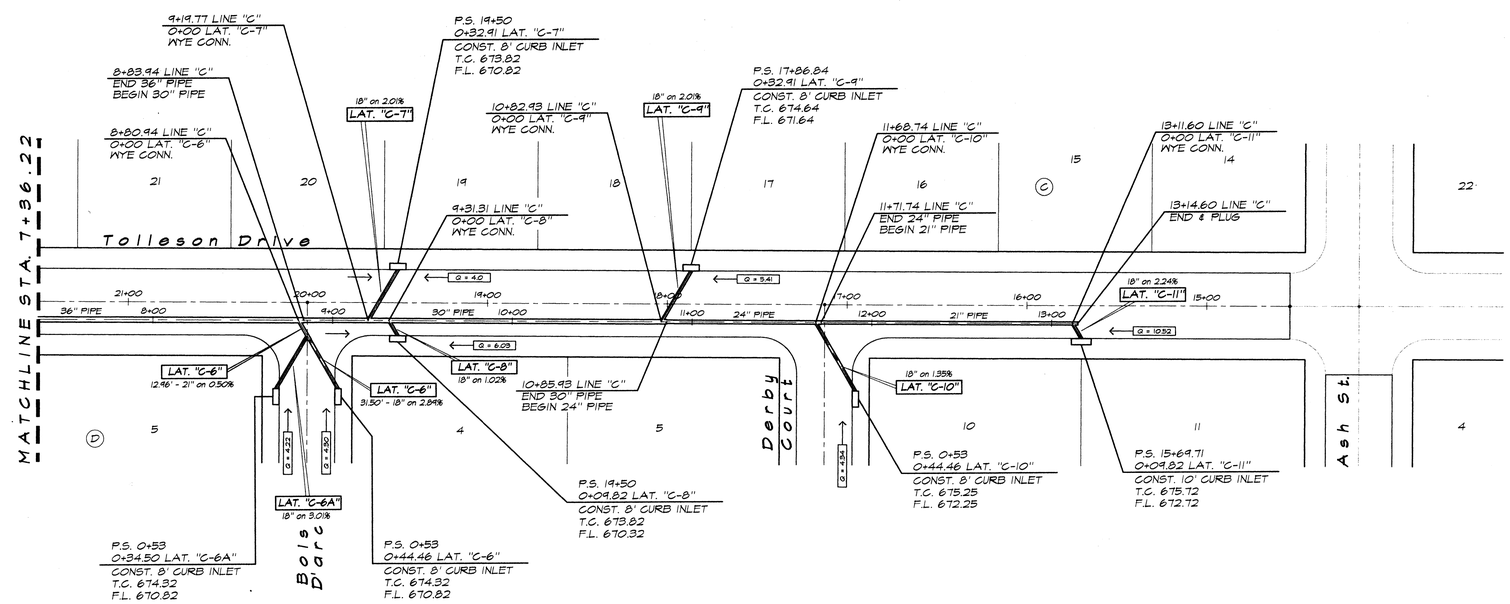
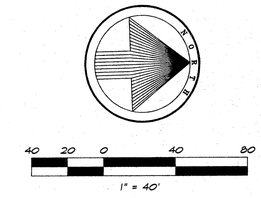
P-200108-01





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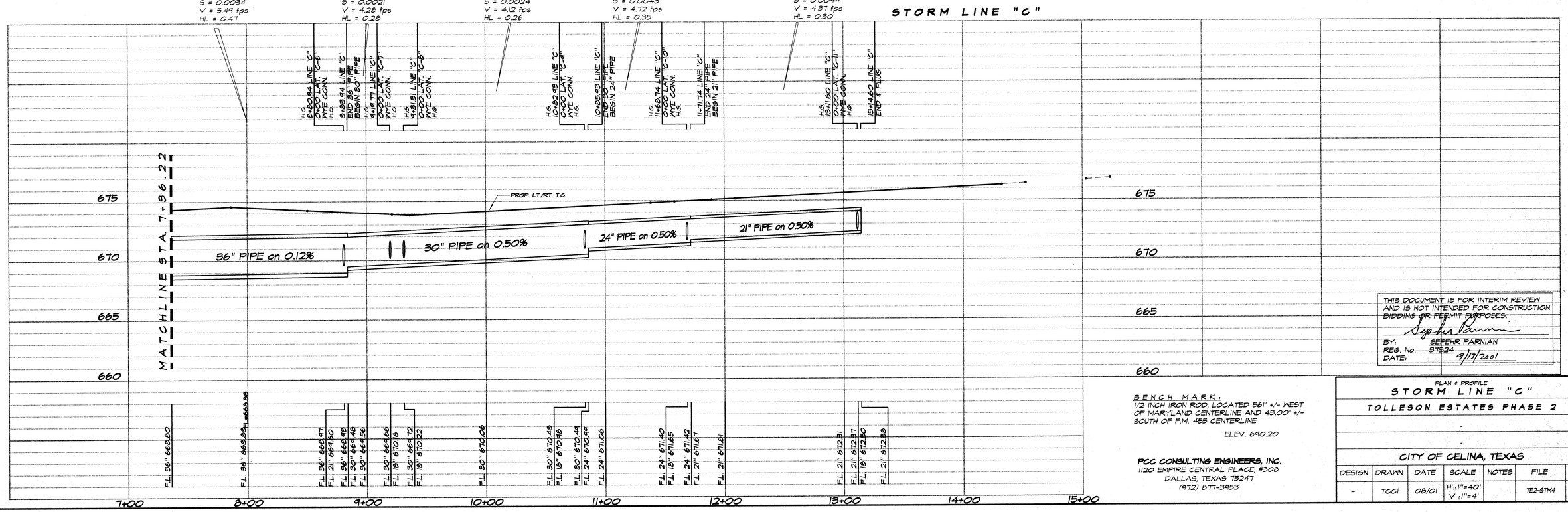

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REG. No. 37324
DATE: 9/17/2001

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ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
STORM LINE "C"
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-STM4	18

PROTOTYPE PLANS FOR TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

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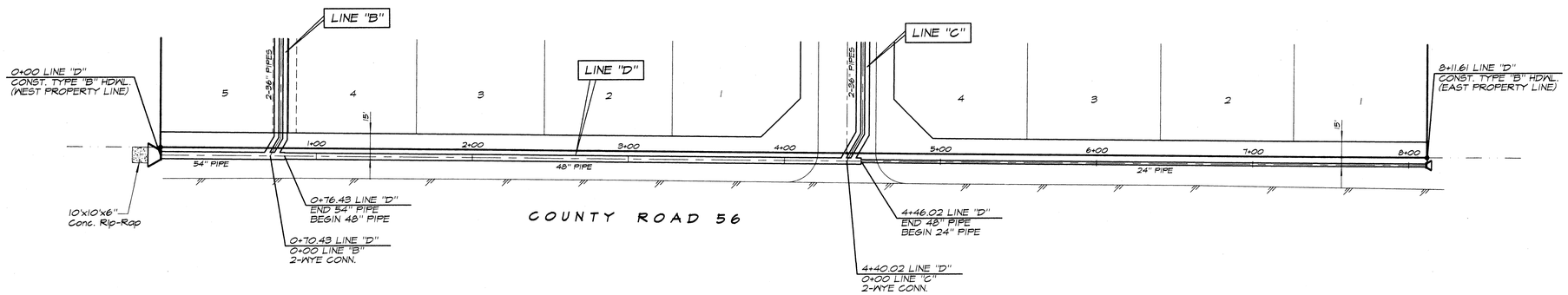
P-200108-01



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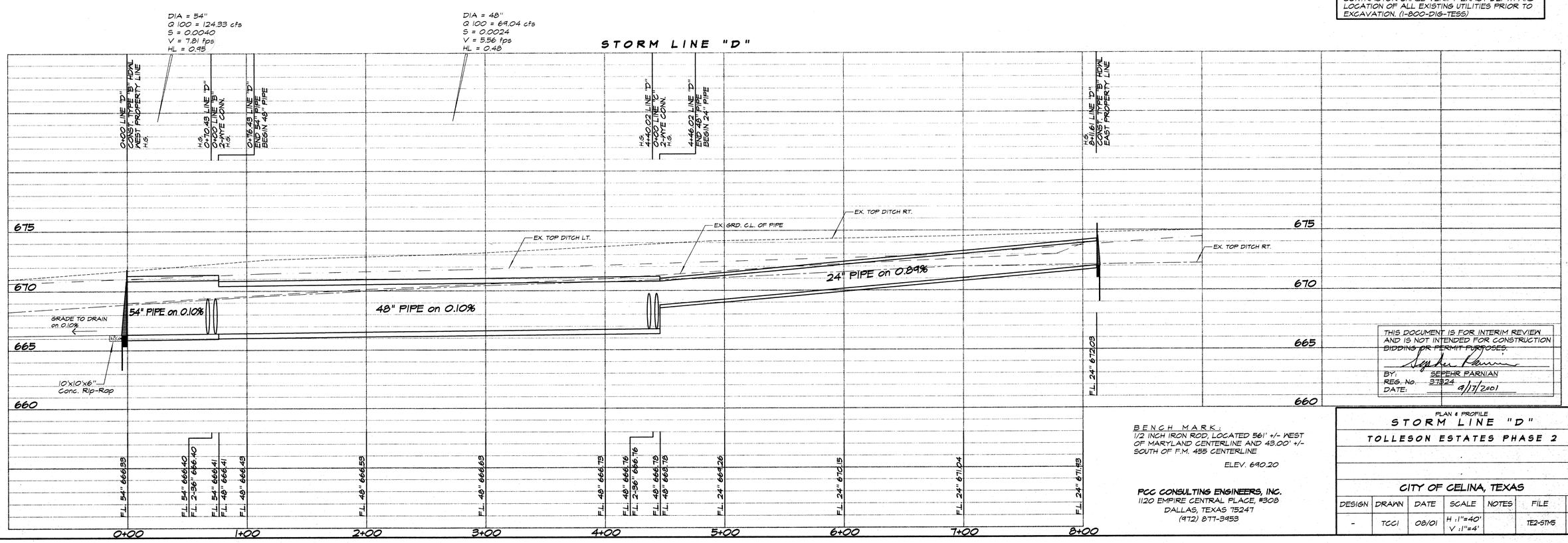

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BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 4/17/2001

BENCH MARK:
1/2 INCH IRON ROD, LOCATED 561' +/- WEST OF MARYLAND CENTERLINE AND 43.00' +/- SOUTH OF F.M. 455 CENTERLINE

ELEV. 690.20

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

PLAN & PROFILE
STORM LINE "D"
TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
-	TCCI	08/01	H :1"=40' V :1"=4'		TE2-STM5	19

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

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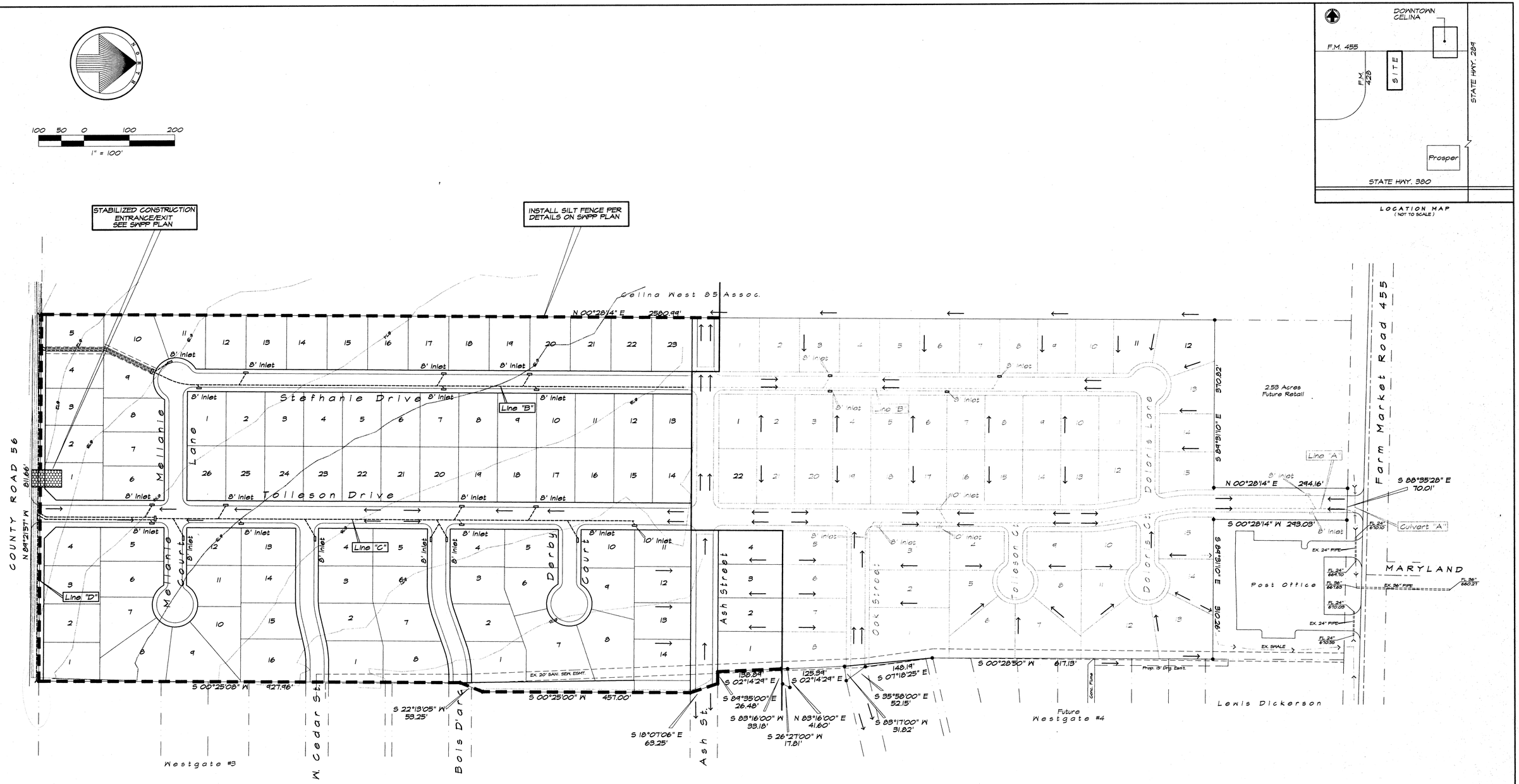
P-200108-01



NOTE:
INSTALL SEDIMENT BARRIER AT ALL STORM INLETS AS PER DETAIL ON SWPP PLAN.

NOTE:
SEE DETAILS ON STORM WATER POLLUTION PREVENTION PLAN.

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/17/2001

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

EROSION CONTROL PLAN

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	1"=100'		TE-ERO	20

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects_tolleson2\te2-ERO.dwg jim

P-200108-01

SITE DESCRIPTION

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for site development construction activities as shown on the following pages. The intent of this plan is to control storm water discharges and certain non-storm water discharges associated with site development construction. It is anticipated the following non-storm water discharges may be associated with the construction activities. Each of the following discharges are authorized by the Construction General Permit and are specified herein and made a part of this SWPPP.

1. Waters used to wash vehicles or control dust.
2. Waterline flushings.
3. Fire Hydrant flushings.
4. Irrigation drainage.
5. Routine pavement washdowns where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used.
6. Routine external building washdowns which do not use detergents.
7. Air conditioning condensates.
8. Foundation or footing drains where flows are not contaminated with process materials such as solvents.

If the Contractor anticipates or experiences any other non-storm water discharges, he shall contact the Engineer of Record to discuss the need for control measures and possible revisions to this SWPPP.

The runoff coefficient of the site after construction is complete is estimated as 0.40 per the City of Celina drainage design criteria. The soils at this site are generally _____, per the soils report prepared by _____, dated _____.
Storm water from this site discharges into ditch along County Road 56. There are no wetland areas in the disturbed areas covered by this plan according to the U.S. Army Corps of Engineers, Fort Worth office
The total site area is 47.53 acres. It is anticipated that 47.53 acres will be disturbed during the construction activities.

EROSION CONTROL GENERAL NOTES

1. Disturbed areas where construction has permanently or temporarily ceased must be stabilized within 14 days of the last disturbance. Area which will be redisturbed within 21 days need not be stabilized.

2. Erosion control measures will be actively maintained until final stabilization of the disturbed area. If erosion control measures are removed for construction or access purposes, Contractor shall replace all items at the end of each work day.

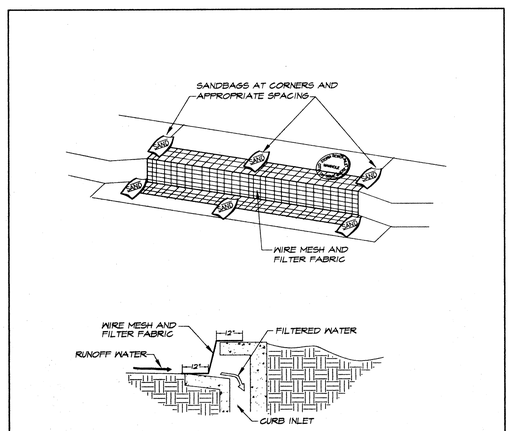
3. After installation of pavement, final lot benching and general cleanup, all disturbed areas shall be hydromulched or cultipack seeded. See seeding specifications this sheet.

4. Erosion control measures require maintenance, cleaning and replacement as required. Erosion control measures will be inspected at least once every seven days and within 24 hours of a rainfall one-half inch or greater by an Agent designated by the Operator and a written report shall be maintained.

5. Excavated trenches and utility spoils shall be backfilled or stockpiled at the end of each day.

6. Stockpiled materials shall be surrounded by silt barrier fence or hay bales per the attached details. Alternate: small stockpiled areas may be covered by a water repellent tarp or plastic as approved by the Operator.

7. Soils in parkways to be chain harrowed or chain dragged prior to seeding. After seeding, parkways to be maintained until a stand of grass has been accomplished and approved by the City.



SEDIMENT BARRIER AT INLETS OR APPROVED EQUAL
N.T.S.

OTHER NOTES

1. Solid non-hazardous construction waste shall be disposed of in trash dumpsters or approved equal, in a location approved by the operator. Potentially soluble or leachable solid waste shall be stored off the ground and in covered leak-proof containers. Solid waste shall be properly disposed of off-site on a regular basis.

2. Hazardous waste shall be segregated from non-hazardous construction site debris. Liquid or semi-liquid hazardous waste shall be stored in appropriate containers (closed drums or similar) and shall be kept under cover. Granular, soluble or leachable hazardous waste materials shall be stored off the ground and in covered leak-proof containers. Hazardous waste storage area locations shall be properly approved of by the Operator. Hazardous waste shall be properly disposed of off-site on a regular basis by a reputable, licensed hazardous waste hauler.

   Note: It is not the intent of this SWPPP to supersede or replace normal site assessment and remediation procedures concerning hazardous materials. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job site contamination should be immediately reported to regulatory authorities and protective actions taken.

3. Fresh concrete waste and concrete equipment washdowns shall be contained in an area approved by the operator. Contractor shall ensure that adequate vegetative buffer is present around concrete disposal areas.

4. All waste materials shall be stored away from drainage ditches, swales and drainage structures. Where appropriate, containment berms shall be placed around waste storage areas.

5. Contractor shall take appropriate measures to control dust generated during construction activities.

6. Contractor shall construct appropriate entryways to prohibit the tracking of dirt and debris off-site.

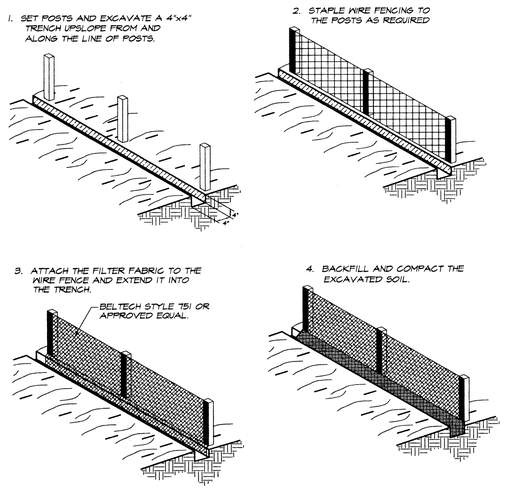
7. A centrally located port-a-pot shall be placed and maintained on the project site at all times during construction activities.

8. Equipment maintenance, repair and washdowns shall be performed off-site or in locations approved by Operator.

9. A copy of this SWPPP shall be kept on-site for the entire construction period. The NOI associated with this SWPPP shall be properly displayed on-site for the entire construction period.

10. A Notice of Termination (N.O.T.) shall be filed for this project upon City acceptance of the project and after final stabilization has been achieved and the responsibility for continued Storm Water Management/Erosion Control shall become that of the builder, city, or other appropriate entity responsible for any applicable construction activity in the future.

11. Complete inspection records pertaining to this NOI and SWPPP must be maintained by the Operator for a period of three (3) years following final stabilization.



NOTE: ACCUMULATED SEDIMENT SHALL BE GRADED AWAY FROM FENCE PERIODICALLY WHEN NECESSARY.

SILT FENCE DETAIL
N.T.S.

SEEDING SPECIFICATIONS

CULTIPACK SEEDING SPECIFICATIONS

Winter Rye Seed (Fall & Winter)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
Common Bermuda Seed (Spring & Summer)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
17/17/17 Fertilizer	380 lb/acre	(9 lbs/1000 sq. ft.)

HYDROMULCH SEEDING SPECIFICATIONS

Winter Rye Seed (Fall & Winter)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
Common Bermuda Seed (Spring & Summer)	65 lb/acre	(1.5 lbs/1000 sq. ft.)
17/17/17 Fertilizer	380 lb/acre	(9 lbs/1000 sq. ft.)
Wood Cellulose Mulch Fiber	2000 lb/acre	(50 lbs/1000 sq. ft.)
Biodegradable Tacifier	65 lb/acre	(1.5 lbs/1000 sq. ft.)

Note: Soil to be seeded shall be chain harrowed or chain dragged prior to seeding. After seeding, these areas shall be maintained until grass is established and approved by Operator.

INSTALLATION SEQUENCE

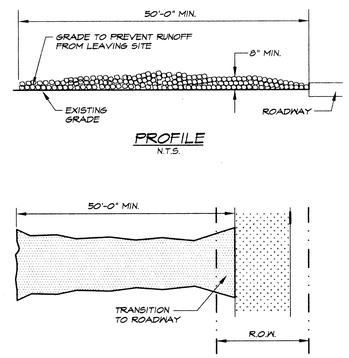
A. Initial installation of silt fence shall be installed prior to clearing the site for establishing rough grades. Installation of these storm water pollution prevention devices shall be installed by the excavation contractor or others and shall be preserved by the excavation contractor. If, during the course of clearing and excavation, the excavation contractor destroys or moves these facilities, then it shall be the responsibility of the excavation contractor to replace the facilities to the state in which he found them when he mobilized.

B. If required, installation of silt fence or other controls, as shown, shall be installed prior to the construction of any drainage facilities and after inlet bottoms are poured. It shall be the utility contractor's responsibility to preserve and/or replace any facilities installed during sequence "A" if destroyed.

C. Silt fence shall be installed after the paving contractor has backfilled all street curbs. The paving contractor shall be responsible for preserving and/or replacing any previously installed facilities which are destroyed as a result of constructing any and all paving facilities.

D. All disturbed areas shall be seeded by others after the excavation contractor has completed the final lot benching of each lot within this development.

* All proposed storm water pollution prevention devices shall be installed by a qualified contractor and shall be paid for per a unit price contract.



PROFILE
N.T.S.

PLAN VIEW
N.T.S.

GENERAL NOTES:

1. STONE SIZE- 4 TO 8 INCH OPEN GRADED ROCK.
2. LENGTH- AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS- NOT LESS THAN 8 INCHES.
4. WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING- WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE- ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

STABILIZED CONSTRUCTION ENTRANCE/EXIT
N.T.S.

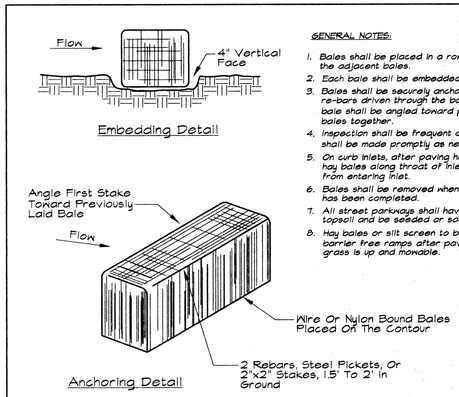
CERTIFICATION STATEMENT

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

I also certify that prior to mobilization I will submit a signed original copy of this SWPPP to the Operator. I will also notify the Operator, in writing, upon the completion of work, stating that I have complied with the directives of this SWPPP.

I also certify that I will make all subordinates and subcontractors aware of this plan and cause them to install, inspect, maintain and preserve the storm water pollution prevention devices as shown.

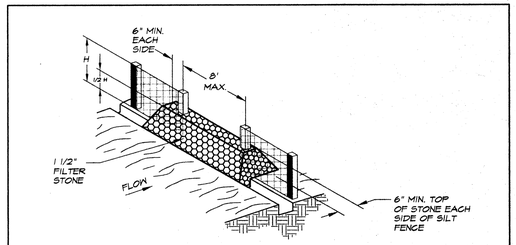
_____	Begin Date / End Date
_____	Begin Date / End Date
_____	Begin Date / End Date
_____	Begin Date / End Date
_____	Begin Date / End Date
_____	Begin Date / End Date
_____	Begin Date / End Date
_____	Begin Date / End Date



GENERAL NOTES:

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. On curb inlets, after paving has been completed, place hay bales along throat of inlet to keep trash & silt from entering inlet.
6. Bales shall be removed when permanent landscaping has been completed.
7. All street parkways shall have a minimum of 6" of topsoil and be seeded or sodded with seasonal grass.
8. Hay bales or silt screen to be placed along roads, at barrier free ramps after pavement is in place until grass is up and movable.

TEMPORARY - HAY BALE BARRIER
N.T.S.



STONE OVERFLOW STRUCTURE
N.T.S.

THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

STORM WATER POLLUTION PREVENTION PLAN

TOLLESON ESTATES PHASE 2

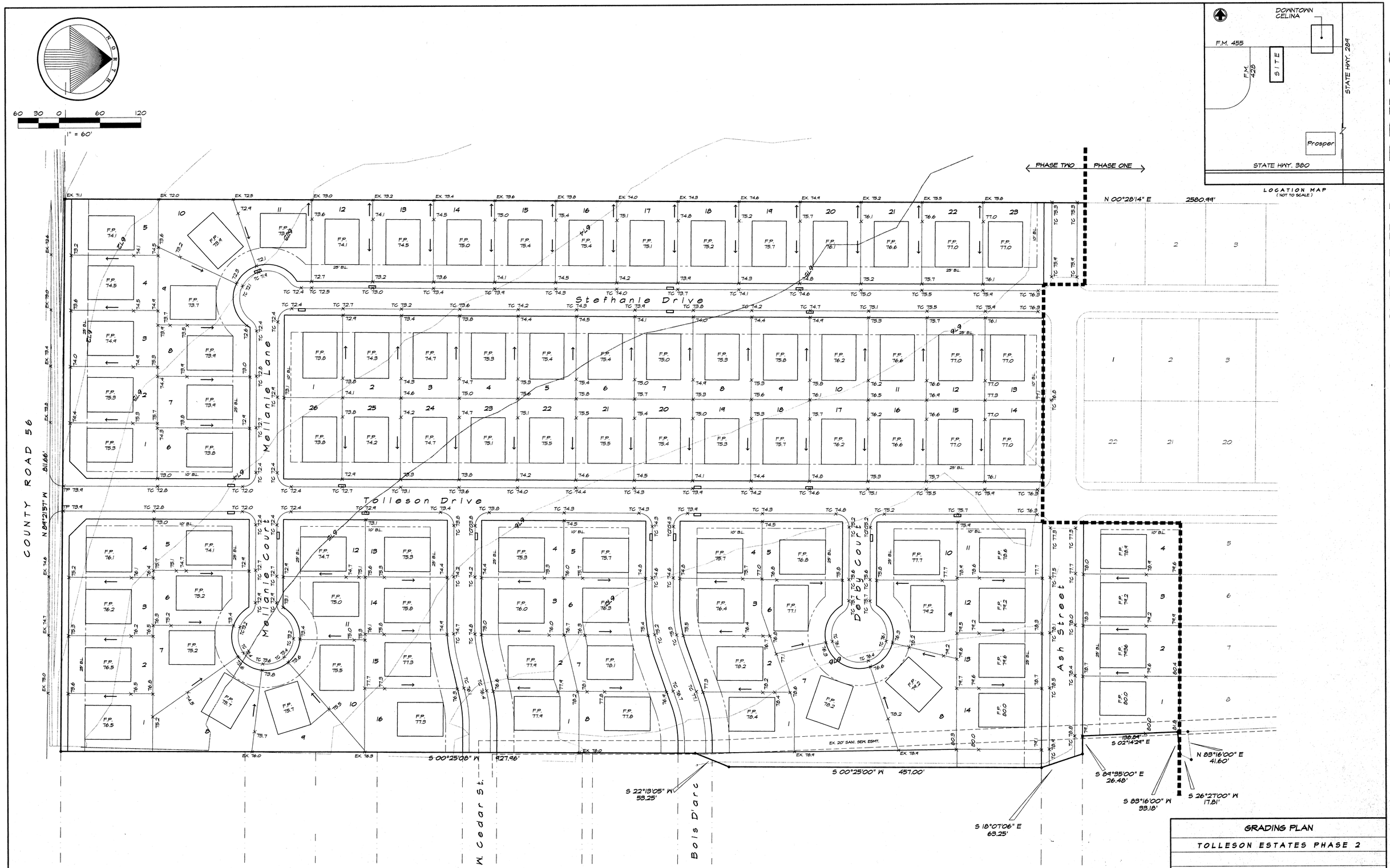
CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	1"=100'		TE-SWPP	21

TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

C:_projects_\tolleson2\TE2-SWPP.DWG jim

P-200108-01



THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES.

BY: SEPEHR PARNIAN
REG. No. 87824
DATE: 9/13/2001

PCC CONSULTING ENGINEERS, INC.
1120 EMPIRE CENTRAL PLACE, #308
DALLAS, TEXAS 75247
(972) 877-3453

GRADING PLAN						
TOLLESON ESTATES PHASE 2						
CITY OF CELINA, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCC1	08/01	1"=60'		TE2-GRD	22

PLAT TOLLESON ESTATES PHASE 2 - CELINA, TEXAS

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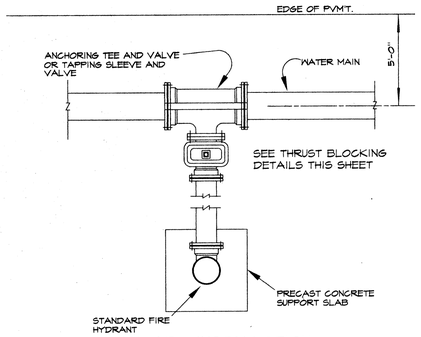
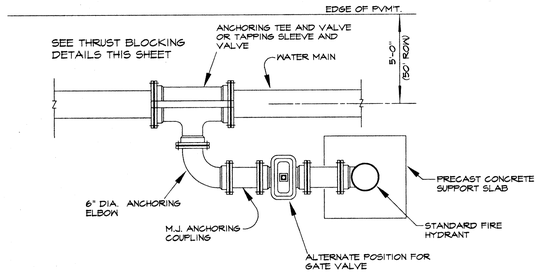


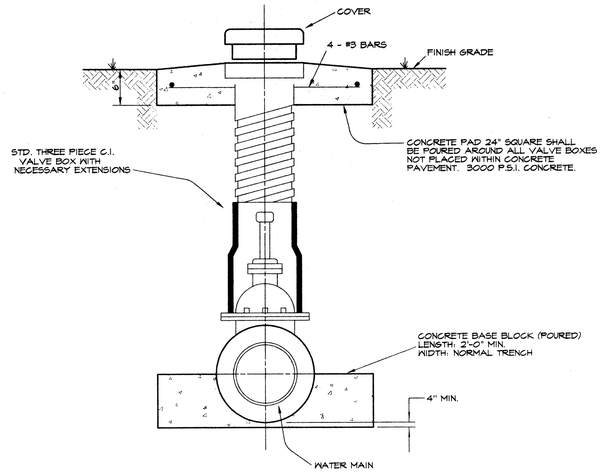
STANDARD INSTALLATION



ALTERNATE INSTALLATION

TYPICAL FIRE HYDRANT INSTALLATION

NTS



TYPICAL VALVE SETTING AND BOX

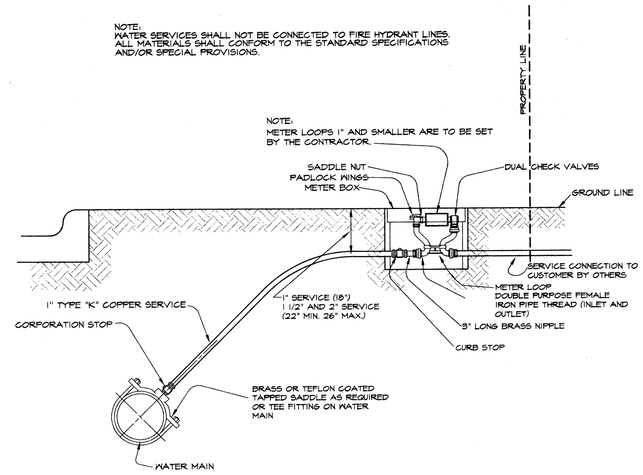
NOTE:

1. RESILIENT WEDGE VALVES 4" THRU 12" IN SIZE SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THATS OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4 FEET OF VALVE BOX LID.
3. DUCTILE IRON OR C-900 PVC PIPE SHALL BE USED FOR VALVE STACKS WITH ADJUSTABLE VALVE BOXES.
4. CUT A "V" SHAPED SYMBOL ON THE NEAREST CURB FACE WITH THE POINT OF THE "V" SYMBOL POINTING TOWARDS THE VALVE LOCATION.

TYPICAL GATE VALVE INSTALLATION

NTS

NOTE:
WATER SERVICES SHALL NOT BE CONNECTED TO FIRE HYDRANT LINES. ALL MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.



TYPICAL SERVICE CONNECTION WITH METER BOX

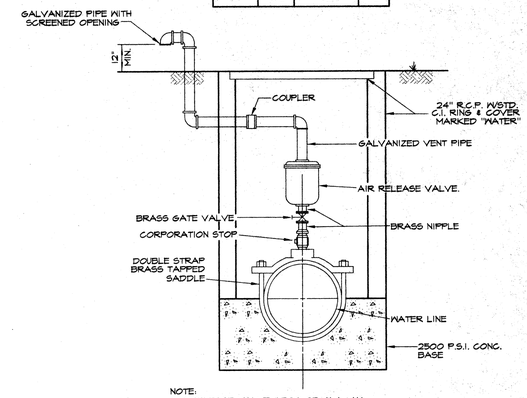
COPPER SERVICE CONNECTION WITH METER BOX DETAILS

*(SAMPLING POINT DETAIL)

NTS

* NOTE:
USE THIS DETAIL MINUS THE METER & METER BOX FOR SAMPLING POINT. EXTEND 1" SERVICE TWO (2) FEET ABOVE GROUND AND PLUG

I.D. OF MAIN	AIR VALVE	BRASS GATE VALVE	VENT PIPE
8"	1"	1"	1"
12"	1 1/2"	1 1/2"	1 1/2"

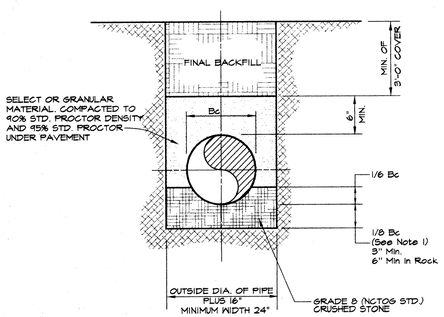


NOTE:
AIR RELEASE VALVE APCO OR CLA-VAL OR APPROVED EQUAL.

NOTE:
PIPING AND FITTINGS FOR AIR AND VACUM-AIR RELEASE VALVE SHALL BE 1" OR 1 1/2" DIA. TYPE "K" SOFT COPPER WITH FLARED CONNECTIONS OR THREADED BRASS PIPE AND FITTINGS.

AIR RELEASE VALVE ASSEMBLY

NTS



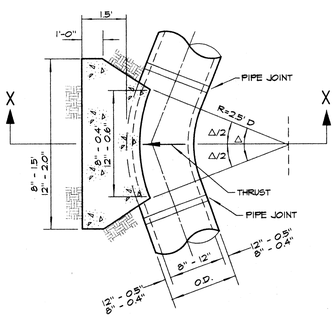
STANDARD EMBEDMENT
CLASS "C" EMBEDMENT

CLASS "C" EMBEDMENT NOTES:

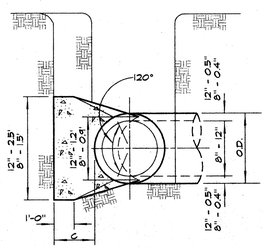
1. FOR MAINS 42" DIA. AND LARGER, 1/8 Bc SHALL BE TAKEN AS 6"
2. Bc = OUTSIDE DIA. OF PIPE

WATER MAIN PIPE EMBEDMENT & BACKFILL DETAILS

NTS



PLAN



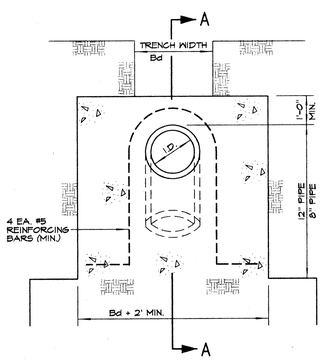
SECTION "X-X"

HORIZONTAL THRUST BLOCK DETAIL

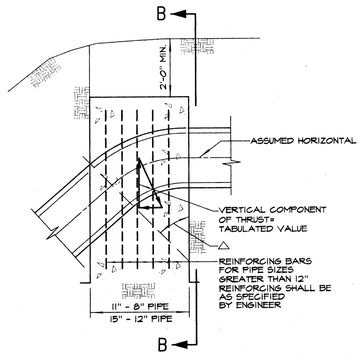
NTS

THRUST BLOCK GENERAL NOTES:

1. CONCRETE FOR BLOCKING SHALL BE CLASS "B".
2. ALL CALCULATIONS ARE BASE ON INTERNAL PRESSURE OF 200 P.S.I. FOR DUCTILE IRON, P.V.C. AND 150 P.S.I FOR CONCRETE PIPE.
3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
4. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES.
5. POUR CONCRETE FOR BLOCK AGAINST UNDISTURBED EARTH.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
7. THE SOIL BEARING PRESSURES ARE BASED ON 1000 LBS/S/FT/ IN SOIL AND 2000 LBS/S.F. IN ROCK.
8. USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND, TEE OR PLUG TO PREVENT THE CONCRETE FROM STICKING TO IT.
9. CONCRETE SHALL EXCEED BEYOND JOINTS.



SECTION "B-B"



SECTION "A-A"

VERTICAL THRUST BLOCK DETAIL

NTS

VOLUME OF CONCRETE IN BLOCK

8" PIPE - 2.3 C.Y.
12" PIPE - 3.2 C.Y.

	ANGLE = 11.25°		ANGLE = 22.50°		ANGLE = 30°		ANGLE = 45°		ANGLE = 61.3°		ANGLE = 90°	
I.D. (IN)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)
4,6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.3	5.2	11.3	5.7

NOTE:
ALL CONSTRUCTION SHALL CONFORM TO N.C.T.C.O.G. UPDATED STANDARD SPECIFICATIONS AND THE CITY OF CELINA'S SPECIAL PROVISIONS.

CAUTION!!!
CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. (1-800-DIG-TESS)

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BY: SEPEHR PARNIAN
REG. No. 37324
DATE: 9/13/2001

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DALLAS, TEXAS 75247
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STANDARD WATER DETAILS

TOLLESON ESTATES PHASE 2

CITY OF CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
PCC	TCCI	08/01	AS SHOWN		TE-DET	23

TOLLESON ESTATES PHASE 2 ~ CELINA, TEXAS

P-200108-01

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