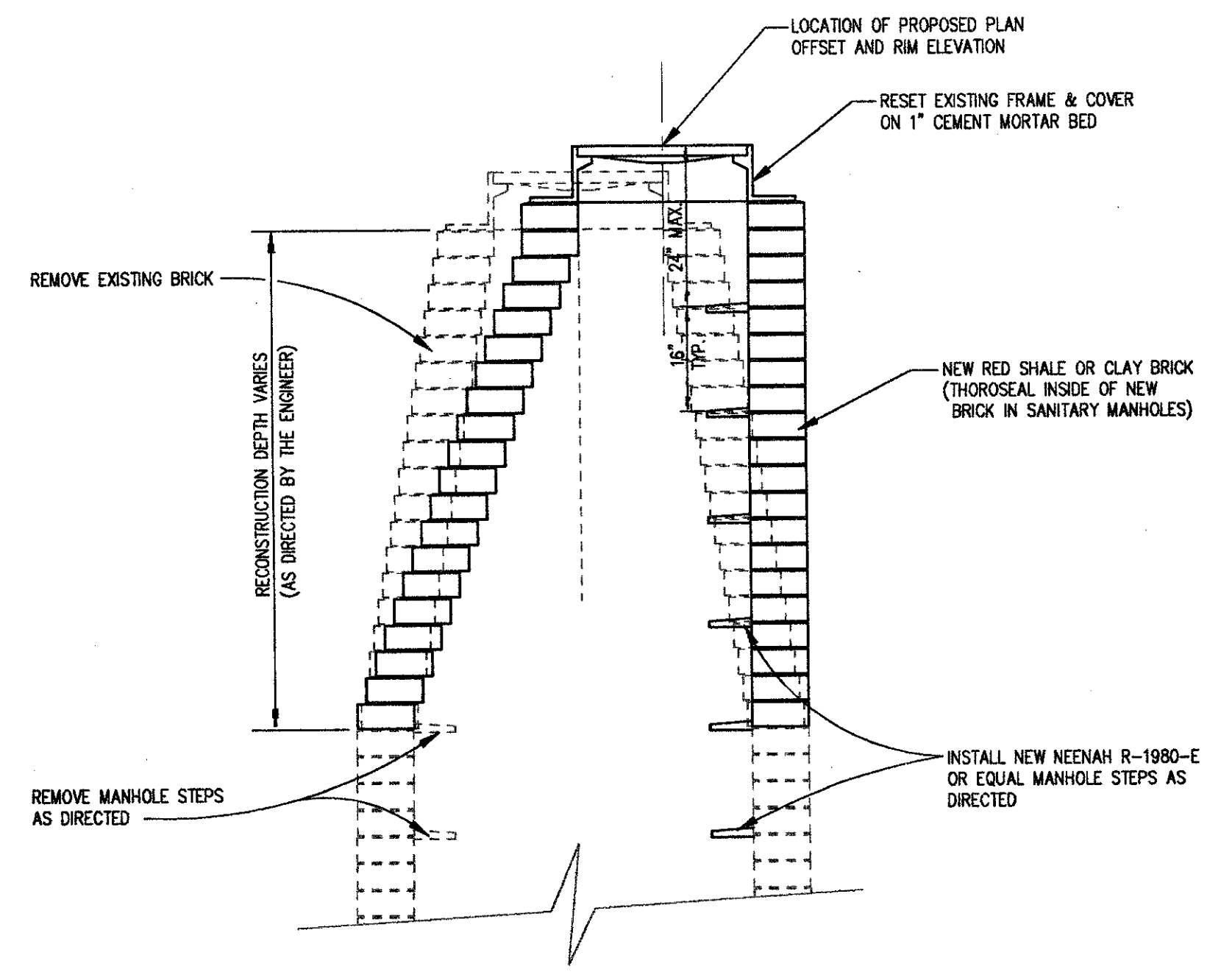


SUBMISSIONS / REVISIONS

**VINE STREET (S.R. 640) ROADWAY
WIDENING IMPROVEMENTS**
 CITIES OF WILLOWICK & EASTLAKE, LAKE COUNTY, OHIO
MISCELLANEOUS DETAILS

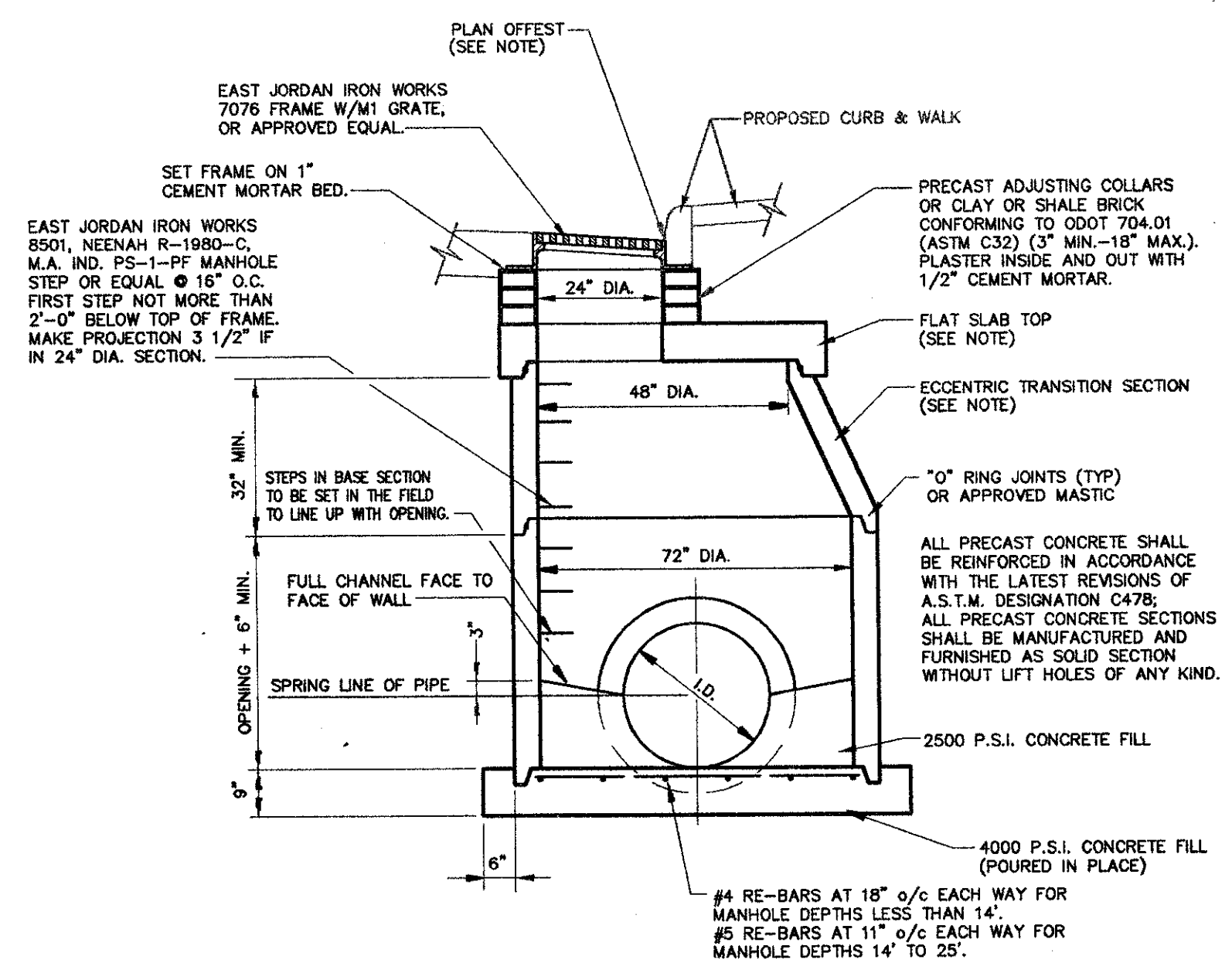
CT Consultants, Inc.
 Engineers • Architects • Planners
 Willoughby • Mentor • Columbus • North Canton • Youngstown

DATE:	JANUARY, 2000
DRAWN BY:	J.J.C.
CHECKED BY:	C.G.H.
APPROVED BY:	
SCALE:	
HOR.:	N.T.S.
VERT.:	
CONTRACT NO.:	9840624
SHEET NO.:	40
OF	52



- IT IS THE INTENTION FOR THIS ITEM TO RECONSTRUCT A PORTION OF THE MANHOLE SO AS TO RELOCATE THE MANHOLE FRAME AND COVER TO THE OFFSET CALLED FOR ON THE PLANS IN ORDER TO AVOID CONFLICT WITH THE LOCATION OF THE PROPOSED CURB. FOR ESTIMATION PURPOSES A QUANTITY OF SIX (6) VERTICAL FEET HAS BEEN USED FOR EACH MANHOLE DESIGNATED TO BE RECONSTRUCTED TO GRADE. HOWEVER, THE ACTUAL DEPTH MAY VARY WHEN, AS DIRECTED BY THE ENGINEER, FIELD CONDITIONS REQUIRE MORE OR LESS RECONSTRUCTION IN ORDER TO MEET THE DESIRED OFFSET CALLED FOR ON THE PLANS.
- WHEN DIRECTED TO DO SO BY THE ENGINEER, THE EXISTING STEPS SHALL BE REMOVED AND NEW STEPS INSTALLED BELOW THE RECONSTRUCTION PORTION OF THE EXISTING MANHOLE AT NO ADDITIONAL COST TO THE OWNER.
- THE INSIDE WALLS OF THE RECONSTRUCTED PORTION OF SANITARY MANHOLES SHALL BE THOROSEALED AS DIRECTED BY THE ENGINEER TO MATCH THE EXISTING WALLS AT NO ADDITIONAL COST TO THE OWNER.

ITEM SPEC. - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN



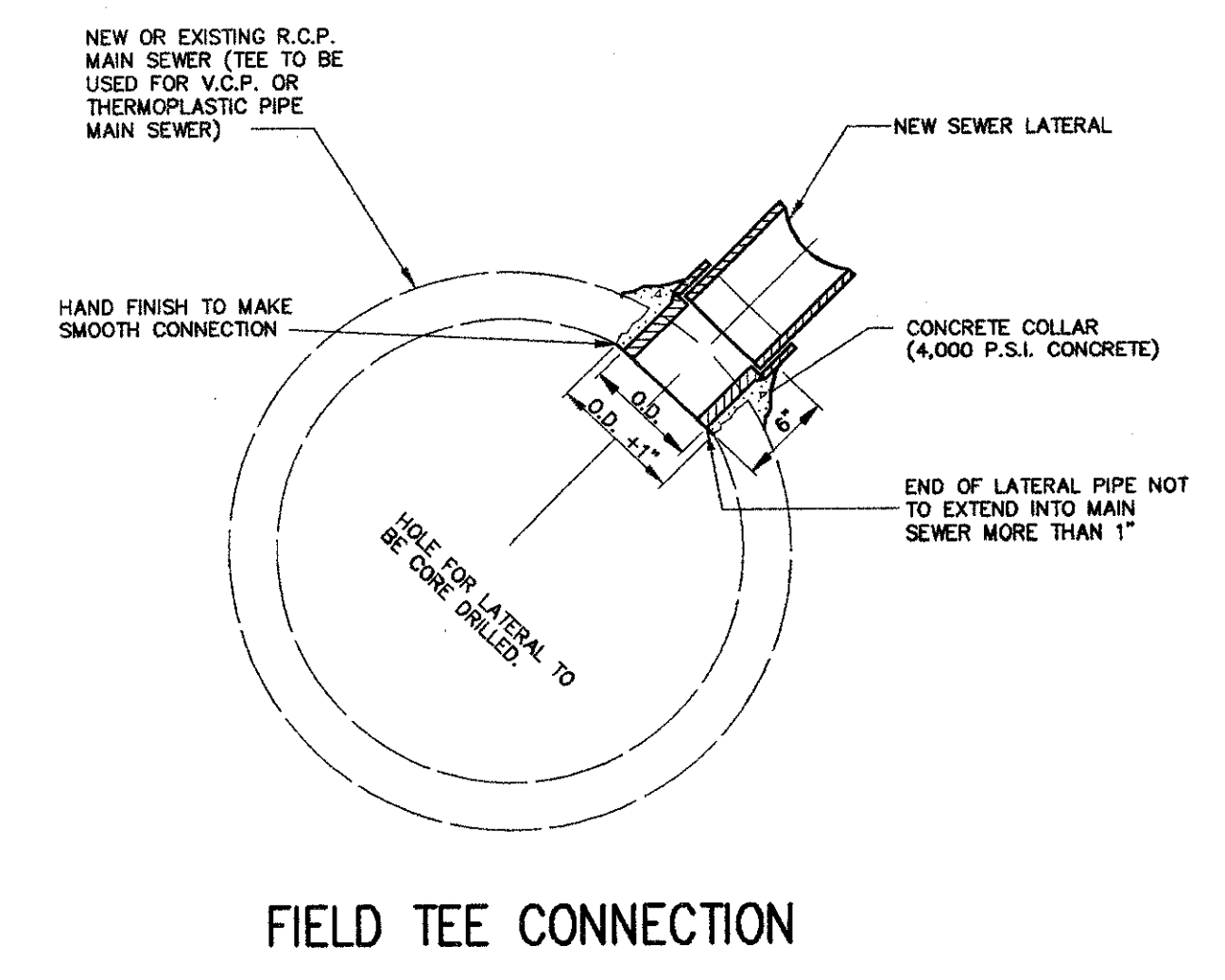
THE LOCATION OF THE EXISTING STORM SEWER ALIGNMENT SHOWN ON THE PLANS IS APPROXIMATE. THEREFORE, ADJUSTMENTS TO THE MANHOLE WILL BE REQUIRED IN THE FIELD SO THAT THE MANHOLE OPENING WILL LINE UP WITH THE FACE OF THE PROPOSED CURB. THE BASE SECTION OF MANHOLE SHALL BE CENTERED OVER THE EXISTING STORM SEWER ALIGNMENT. THE ECCENTRIC TRANSITION SECTION AND FLAT SLAB TOP SHALL BE ROTATED AS REQUIRED SO THAT THE OUTSIDE EDGE OF THE 24\"/>

IN THE EVENT THAT THE ACTUAL LOCATION OF THE EXISTING STORM SEWER DIFFERS FROM THE PLANS ENOUGH SO THAT ALIGNMENT OF THE MANHOLE OPENING WITH THE PROPOSED FACE OF CURB CANNOT BE ACCOMPLISHED, THE ECCENTRIC TRANSITION SECTION AND FLAT SLAB TOP SHALL BE ROTATED SO THAT THE OPENING DOES NOT CONFLICT WITH THE CURB LOCATION. AN EAST JORDAN IRON WORKS 1045 FRAME, OR APPROVED EQUAL, WITH A SOLID COVER SHALL THEN BE SUBSTITUTED IN PLACE OF THE FRAME AND COVER CALLED FOR ON THE DETAIL AT NO ADDITIONAL COSTS TO THE OWNERS. A TYPE 1 CURB INLET SHALL BE CONSTRUCTED AT A LOCATION AND ELEVATION AS DIRECTED IN THE FIELD AND CONNECTED INTO THE MANHOLE WITH 8 LIN. FT. OF 12\"/>

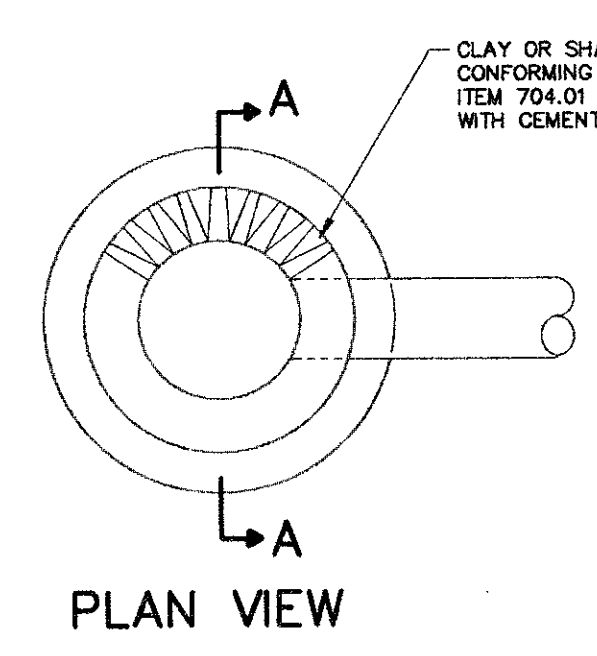
ITEM 603 - 12\"/>	
ITEM 604 - CURB INLET, TYPE 1	2 EACH

ALL OTHER COSTS ASSOCIATED WITH THE ABOVE NOTE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 604 - CURB INLET MANHOLE.

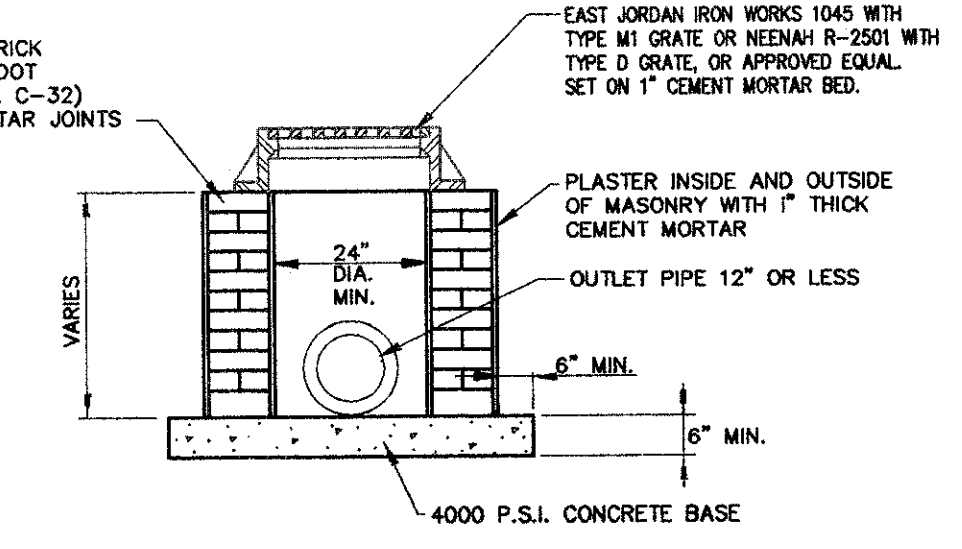
CURB INLET MANHOLE



FIELD TEE CONNECTION

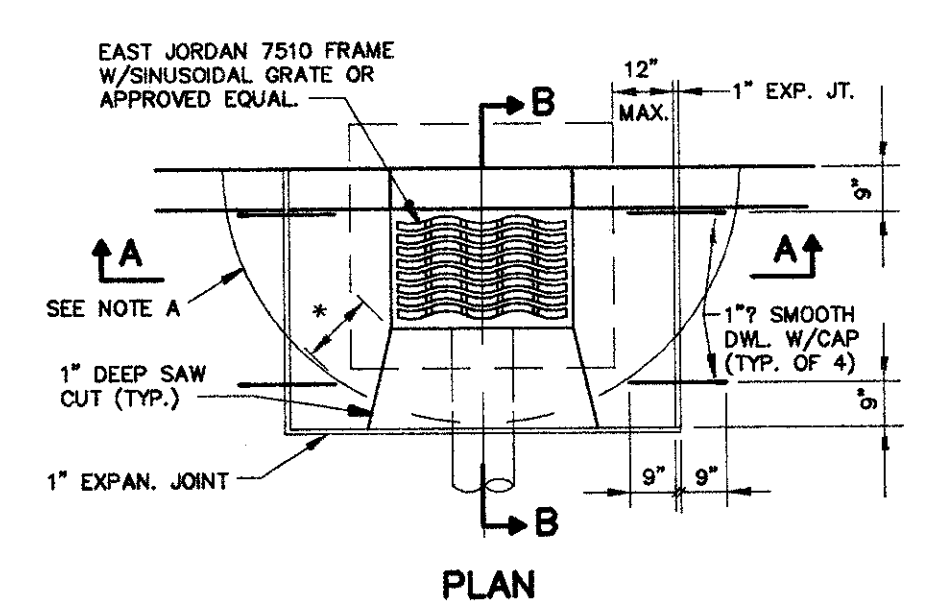


PLAN VIEW



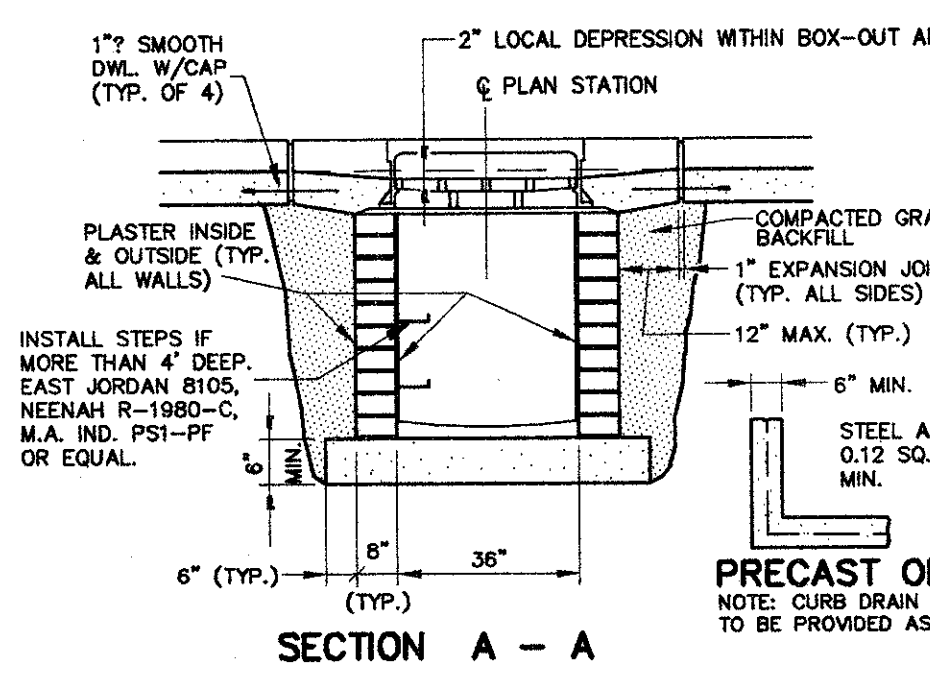
SECTION A-A

CATCH BASIN

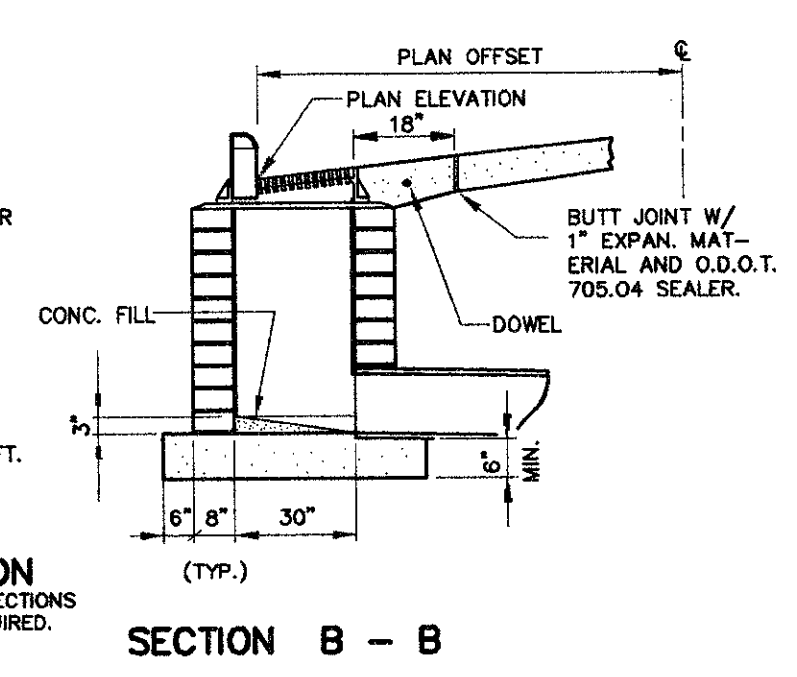


PLAN

- NOTE A**
ALTERNATE INLET BOX-OUT TO BE USED WHERE RECTANGULAR BOX-OUT DOES NOT FIT PAVEMENT JOINT PATTERN OR WHERE DIRECTED BY ENGINEER. JOINT TO BE A SMOOTH BUTT JOINT WITH 1\"/>
 - ALL WORK TO CONFORM TO O.D.O.T. ITEM 604.
 - ALL BRICK SHALL BE CLAY OR SHALE BRICK CONFORMING TO O.D.O.T. ITEM 704.01 (A.S.T.M. C32), UNLESS APPROVED IN WRITING BY THE ENGINEER.
 - IF PRECAST UNITS ARE USED, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRECAST UNITS SHALL CONFORM TO O.D.O.T. ITEM 706.13.
 - PAVEMENT CONCRETE WITHIN BOXOUT SHALL CONFORM TO O.D.O.T. 499, CLASS S 5000 P.S.I. WITH RETARDER. CONCRETE FOR BASE SHALL BE 4000 P.S.I.
 - THE ENTIRE AREA AROUND THE BASIN SHALL BE BACKFILLED WITH O.D.O.T. ITEM 310.02, MECHANICALLY COMPACTED IN 4\"/>
 - PRECAST UNITS SHALL BE SET ON 6\"/>

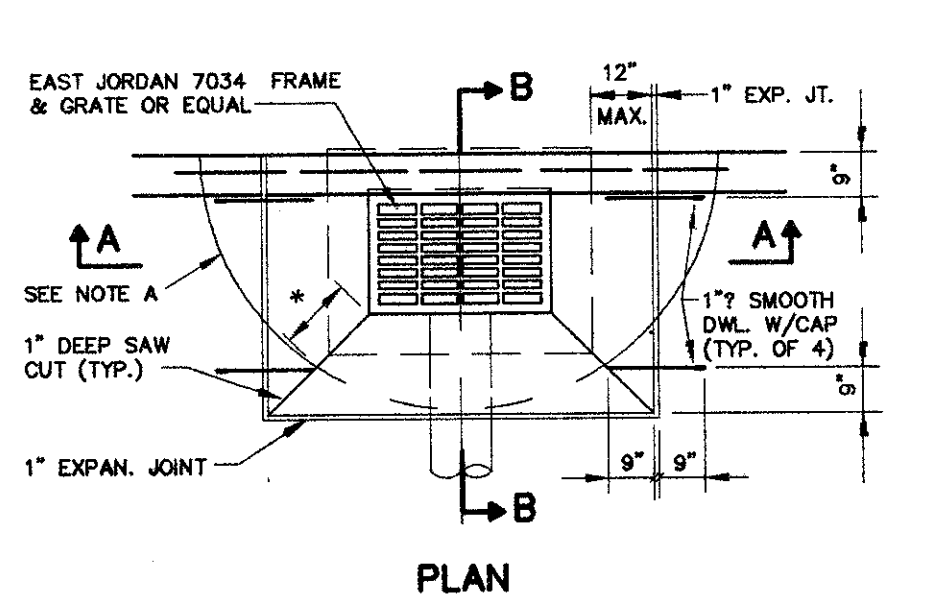


SECTION A - A



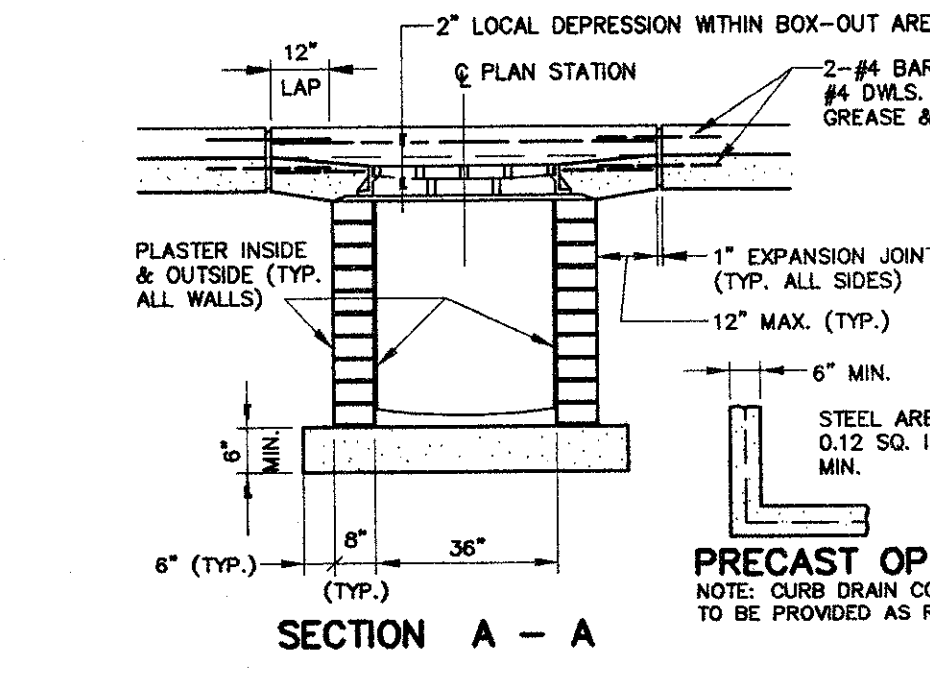
SECTION B - B

CURB INLET BASIN, TYPE 1

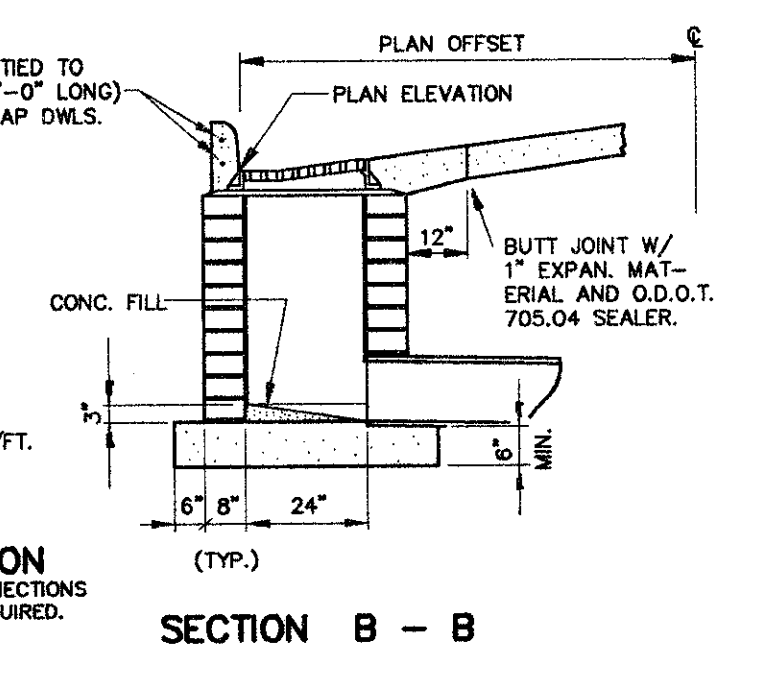


PLAN

- NOTE A**
ALTERNATE INLET BOX-OUT TO BE USED WHERE RECTANGULAR BOX-OUT DOES NOT FIT PAVEMENT JOINT PATTERN OR WHERE DIRECTED BY ENGINEER. JOINT TO BE A SMOOTH BUTT JOINT WITH 1\"/>
 - ALL WORK TO CONFORM TO O.D.O.T. ITEM 604.
 - ALL BRICK SHALL BE CLAY OR SHALE BRICK CONFORMING TO O.D.O.T. ITEM 704.01 (A.S.T.M. C32), UNLESS APPROVED IN WRITING BY THE ENGINEER.
 - IF PRECAST UNITS ARE USED, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRECAST UNITS SHALL CONFORM TO O.D.O.T. ITEM 706.13.
 - ALL CONCRETE SHALL CONFORM TO O.D.O.T. 499, CLASS C (4000 PSI).
 - THE ENTIRE AREA AROUND THE BASIN SHALL BE BACKFILLED WITH O.D.O.T. ITEM 310.02, MECHANICALLY COMPACTED IN 4\"/>
 - PRECAST UNITS SHALL BE SET ON 6\"/>

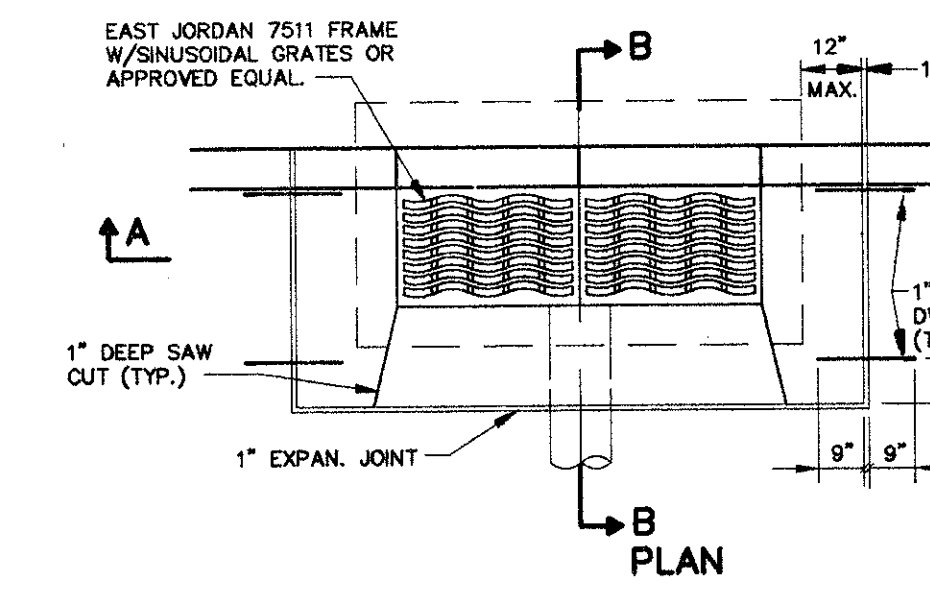


SECTION A - A



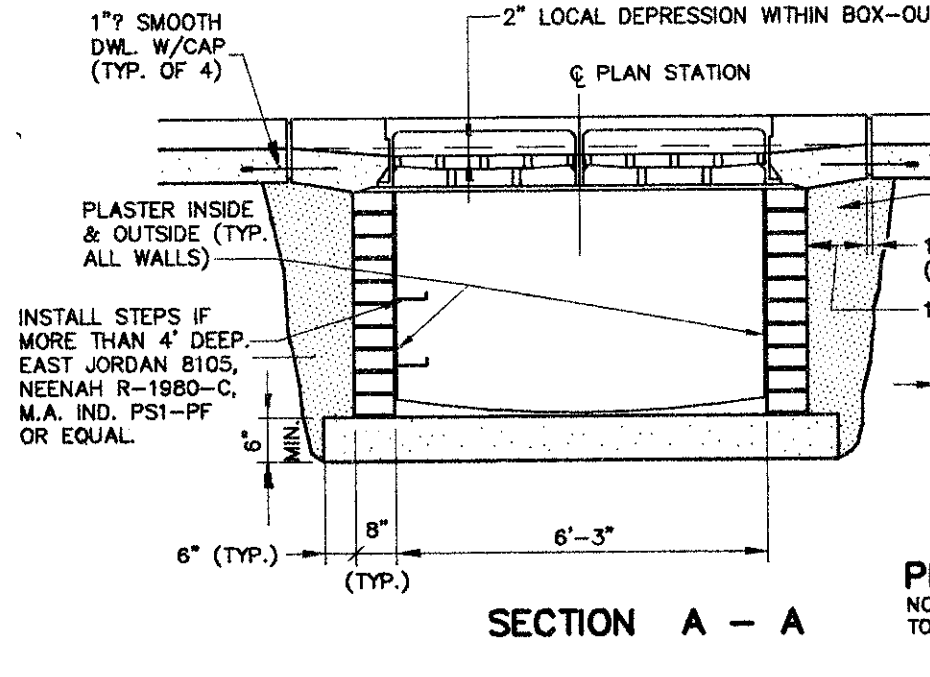
SECTION B - B

CURB INLET BASIN, TYPE 2

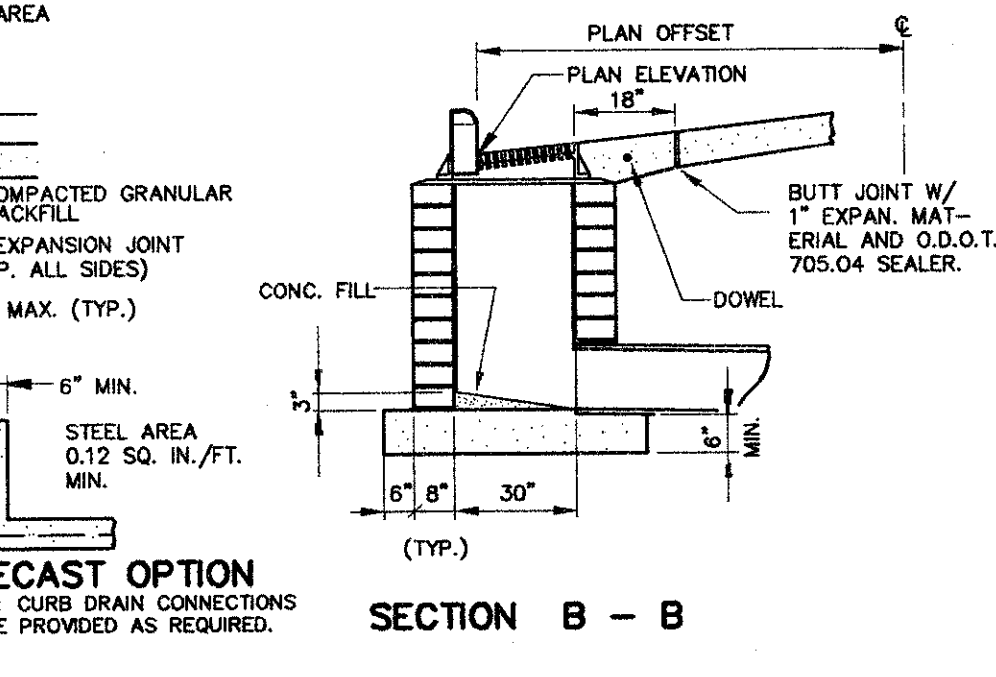


PLAN

- GENERAL NOTES:**
- ALL WORK TO CONFORM TO O.D.O.T. ITEM 604.
 - ALL BRICK SHALL BE CLAY OR SHALE BRICK CONFORMING TO O.D.O.T. ITEM 704.01 (A.S.T.M. C32), UNLESS APPROVED IN WRITING BY THE ENGINEER.
 - IF PRECAST UNITS ARE USED, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRECAST UNITS SHALL CONFORM TO O.D.O.T. ITEM 706.13.
 - PAVEMENT CONCRETE WITHIN BOXOUT SHALL CONFORM TO O.D.O.T. 499, CLASS S 5000 P.S.I. WITH RETARDER. CONCRETE FOR BASE SHALL BE 4000 P.S.I.
 - THE ENTIRE AREA AROUND THE BASIN SHALL BE BACKFILLED WITH O.D.O.T. ITEM 304.02, MECHANICALLY COMPACTED IN 4\"/>
 - PRECAST UNITS SHALL BE SET ON 6\"/>



SECTION A - A



SECTION B - B

CURB INLET BASIN, TYPE 3

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