

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	2

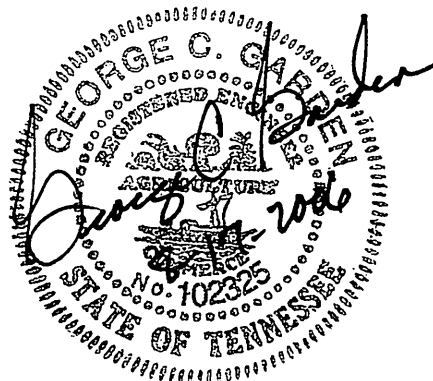
REV. 8-12-06: REVISED FOOTNOTE NO.3.

ESTIMATED ROADWAY QUANTITIES
SMITH COUNTY WELCOME CENTER

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
① 777-08.86	MODIFICATIONS TO UV & FLOW METER GRAVITY LINE	LS	1
② 777-08.87	EFFLUENT DOSING PUMP STATION	LS	1
③ 777-08.88	LAND APPLICATION SUPPLY & COLLECTION SYSTEM	LS	1
④ 777-08.89	SUBSURFACE LAND APPLICATION SYSTEM	LS	1
777-08.90	MONITORING WELL	EA	5
801-01	SEEDING (WITH MULCH)	UNIT	0.30

FOOTNOTES

- ① INCLUDES MODIFICATION OF LINE FROM EXISTING FLOW SPLITTER TO EXISTING UV AND FLOW METER VAULT TO GRADE INDICATED ON THE DWGS; CORING AND SEALING NEW PENETRATION OF VAULT WALL; PLUGGING OLD PENETRATION; RAISING FOUNDATIONS FOR UV AND FLOW METER; DISCONNECTING AND RECONNECTING UV AND FLOW METER; INSTALLING NEW LINE TO DOSING PUMP STATION AND SEALING PUMP STATION INLET; PROVIDING TEMPORARY DISCHARGE AND UV OPERATION DURING CONSTRUCTION; UV AND METER RELOCATION TO BE COMPLETE AND IN PLACE.
- ② INSTALL NEW EFFLUENT DOSING PUMP STATION COMPLETE AND IN PLACE INCLUDING: WETWELL WITH ACCESSES AND ACCESS RISERS; PUMPS AND FILTERED PUMP VAULTS; CONTROL FLOATS AND CONTROL PANEL; ELECTRICAL POWER; EXTERNAL VALVE VAULT WITH CHECK VALVES, PRESSURE GAUGES AND ASSOCIATED PIPING. REPLACE FENCE AS NEEDED
- ③ INCLUDES EFFLUENT DOSING DISCHARGE PIPING FROM EXTERNAL VALVE VAULT TO AND INCLUDING ALL DISTRIBUTING VALVES; FORWARD FLUSH COLLECTION PIPING FROM ZONE CONSOLIDATION POINT INDICATED ON THE DRAWINGS TO THE EFFLUENT DOSING PUMP STATION, COMPLETE AND IN PLACE. ITEM 777-08.88 INCLUDES ALL COSTS ASSOCIATED WITH THE PROPOSED CONSTRUCTION OF THE FILTER BUILDING COMPLETE AND IN PLACE.
- ④ INCLUDES ALL VALVES, PIPING, EMITTER HOSE, FLEXIBLE HOSE AND ASSOCIATED FITTINGS FROM THE ENTRY OF PIPING INTO THE IRRIGATION ZONES TO THE FORWARD FLUSH COLLECTION PIPING POINT INDICATED ON THE DRAWINGS, COMPLETE AND IN PLACE. ITEM INCLUDES EQUIPMENT NECESSARY FOR EMITTER HOSE INSTALLED ON 5 FOOT CENTERS.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

ESTIMATED
ROADWAY
QUANTITIES

I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	2A

GENERAL NOTES

1.0 GRADING

- 1.1 ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- 1.2 THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

2.0 SEEDING AND SODDING

- 2.1 ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED ON ALL DISTURBED AREAS.

3.0 UTILITIES

- 3.1 THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- 3.2 THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- 3.3 THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

4.0 MISCELLANEOUS

- 4.1 NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

5.0 EROSION CONTROL NOTES

- 5.01 CLEARING AND GRUBBING SHALL NOT BE INITIATED MORE THAN 20 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS TEMPORARILY SEEDDED AND MULCHED.
- 5.02 ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.
- 5.03 EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED CONCURRENT WITH CLEARING OPERATIONS, AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- 5.04 INSPECTION AND MAINTENANCE OF STRUCTURES IS TO BE PERFORMED IN A REGULAR BASIS AND SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.
- 5.05 THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC.
- 5.06 SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EROSION AND SEDIMENTATION CONTROL MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. HAY BALES AND/OR SILT FENCE MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- 5.07 PERMANENT EROSION CONTROL MEASURES SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING
- 5.08 THE CONTRACTOR SHALL INSTALL A RAIN GAUGE ON-SITE AND MAINTAIN IT IN GOOD WORKING CONDITION. THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION ON THE PROJECT AND PROVIDE THIS INFORMATION TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGE IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS.
- 5.09 INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS) AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, AND AT LEAST ONCE PER WEEK.
- 5.10 OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO SURROUNDING WATERS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 5.11 UPON CONCLUSION OF THE INSPECTIONS, EROSION AND SEDIMENT CONTROL MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONDITION IS IDENTIFIED.
- 5.12 THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN ON-SITE (OR AT A NEARBY OFFICE) AND SHALL PLACE COPIES OF ANY PROJECT-RELATED PERMITS ON THE PROJECT BULLETIN BOARD.
- 5.13 THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS FROM ENTERING WATERS OF THE STATE/U.S.
- 5.14 THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE UTILIZED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- 5.15 BORROW AND WASTE DISPOSAL AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.
- 5.16 HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EROSION AND SEDIMENT CONTROL PLANS.
- 5.17 WETLAND AREAS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.
- 5.18 ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED AND THE PERMIT OR PERMITS ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENVIRONMENTAL PLANNING AND PERMITS DIVISION SHALL DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

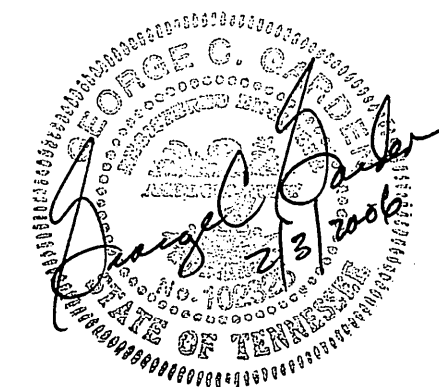
6.0 SPECIAL NOTES

- 6.1 THE CONTRACTOR WILL SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. THE TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." ALL COSTS FOR TRAFFIC CONTROL ITEMS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
- 6.2 THE CONTRACTOR WILL SUBMIT AN EROSION CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. ALL COSTS TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS. MATERIAL QUANTITIES REQUIRED TO MEET LEGAL AND REGULATORY STANDARDS ARE CONSIDERED TO BE INCIDENTAL TO THE PROJECT'S CONSTRUCTION WORK AND SHALL BE PROVIDED BY THE CONTRACTOR AS NECESSARY WITHOUT ADDITIONAL COST TO THE OWNER.
- 6.3 UPON COMPLETE REMOVAL OF EROSION AND SEDIMENT CONTROL STRUCTURES, THE AREA WHERE THEY WERE CONSTRUCTED IS TO BE TOPSOILED, SEEDDED AND MULCHED. COST TO BE INCLUDED IN PRICE BID FOR ITEM NO 801-01.
- 6.4 UNLESS SPECIFICALLY IDENTIFIED IN FOOTNOTE NO. 1 FOR "ESTIMATED ROADWAY QUANTITIES SMITH COUNTY WELCOME CENTER," ON SHEET NO. 2 EXCAVATION WILL BE CONSIDERED AS UNCLASSIFIED AND WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST BID FOR EACH RESPECTIVE ITEM.

SCOPE OF WORK

1. RAISE WASTEWATER TREATMENT PLANT DISCHARGE PIPING FROM FLOW SPLITTER TO EFFLUENT DOSING PUMP STATION KEEPING UV DISINFECTION IN OPERATION DURING CONSTRUCTION AND PLANT OPERATION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. PROVIDE AND INSTALL EFFLUENT DOSING PUMP STATION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. PROVIDE AND INSTALL DISTRIBUTION PIPING AND FORWARD-FLUSH COLLECTION PIPING TO AND FROM SUBSURFACE LAND APPLICATION DISPOSAL FIELD AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT SUBSURFACE LAND APPLICATION DISPOSAL FIELD UTILIZING PRESSURE COMPENSATING DRIP EMITTER HOSE AND ASSOCIATED FITTINGS AND APPURTENANCES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

NOTE:
ORIGINAL PLANS ARE FROM 1997 CONSTRUCTION PROJECT 80001-4195-04.

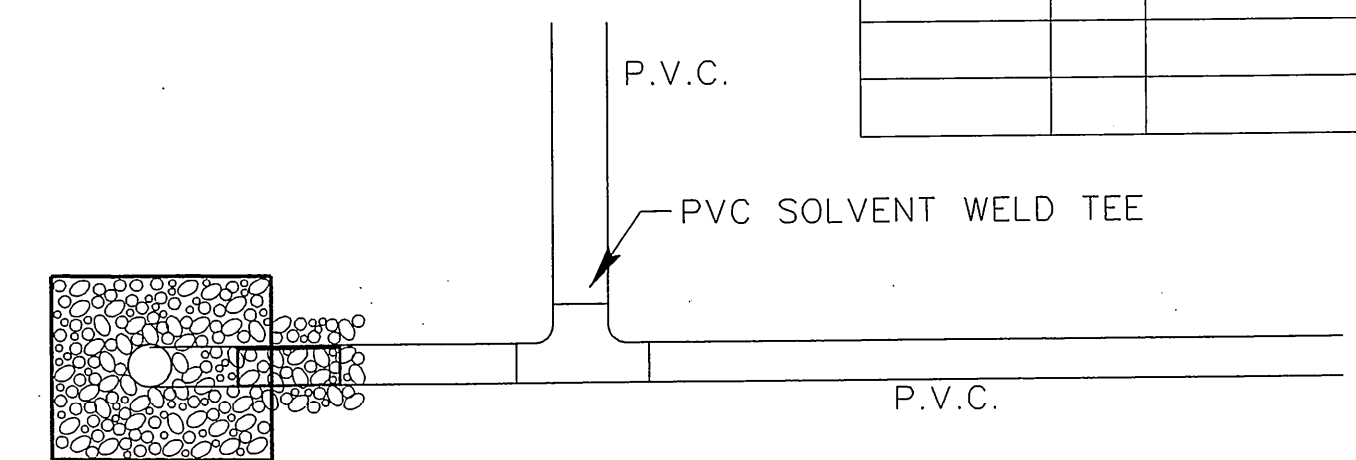


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

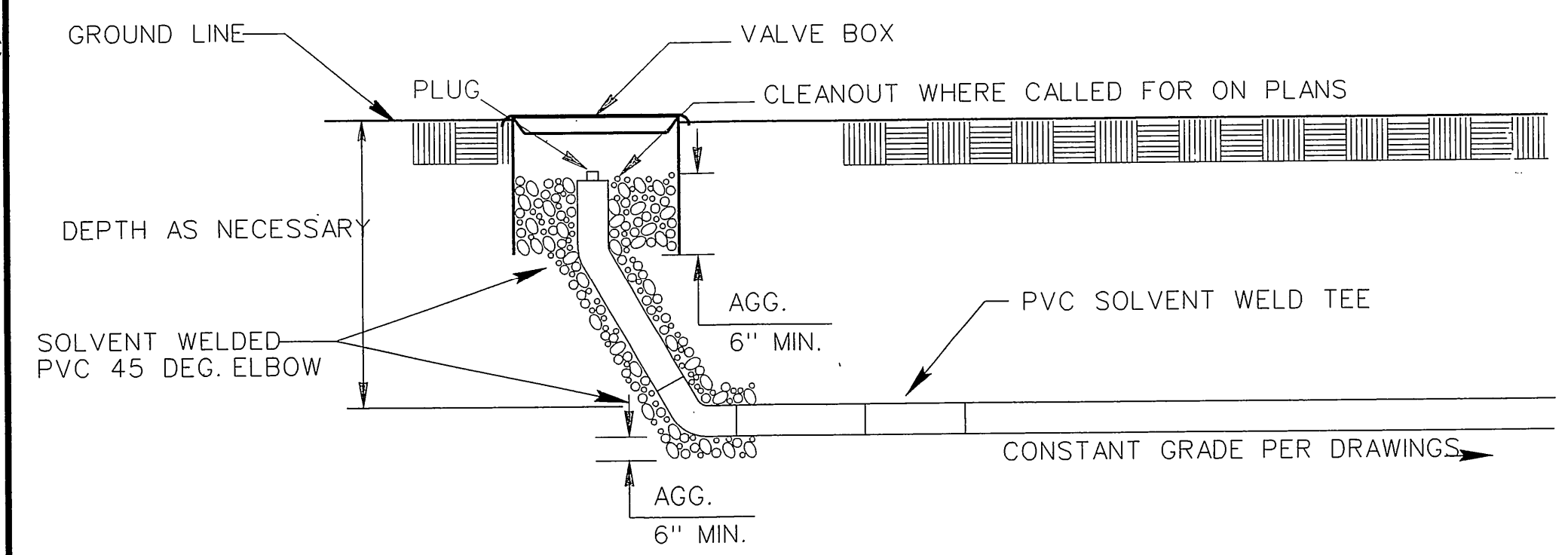
GENERAL NOTES AND SCOPE OF WORK

I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	2B



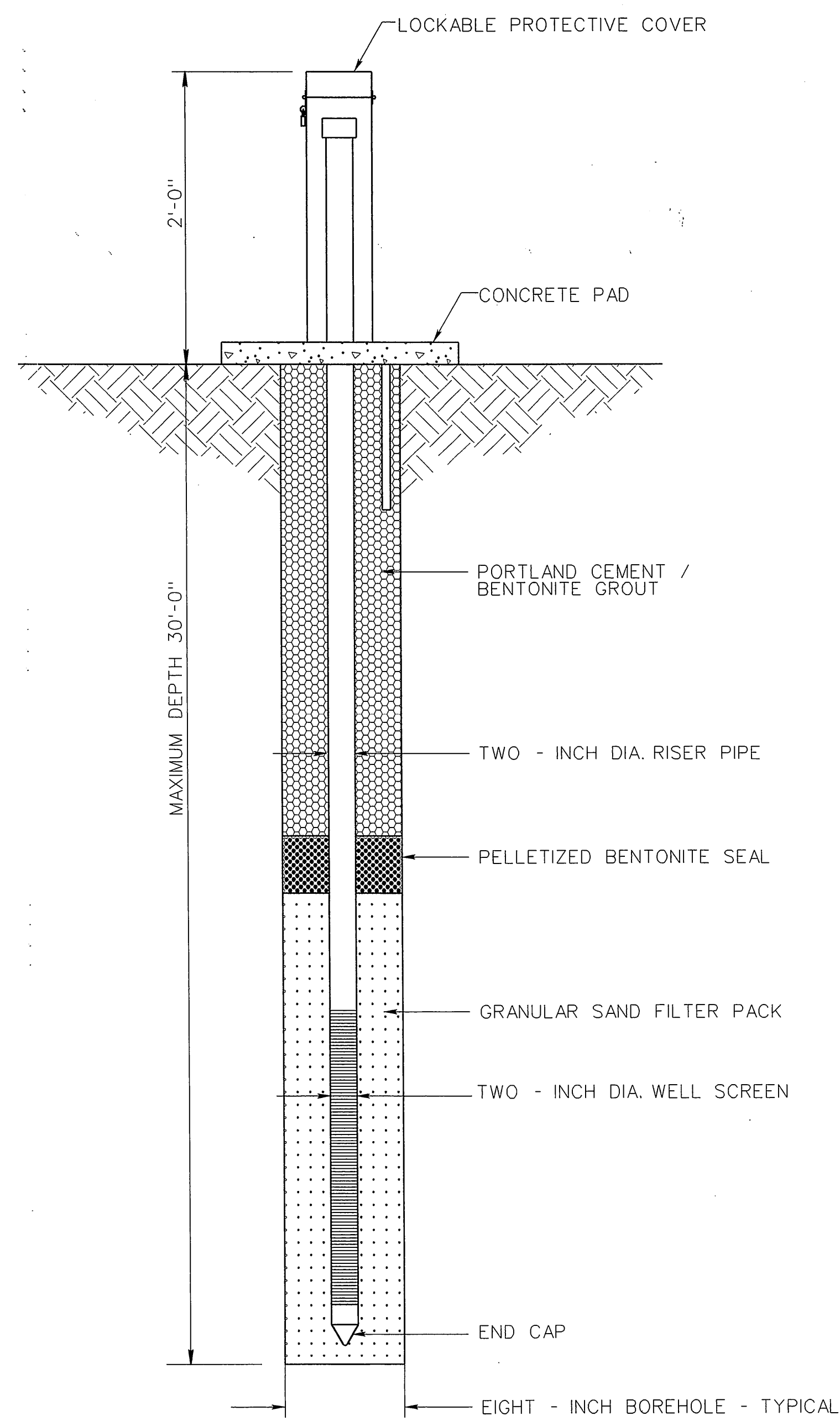
PLAN VIEW-N.T.S.



PROFILE VIEW-N.T.S.

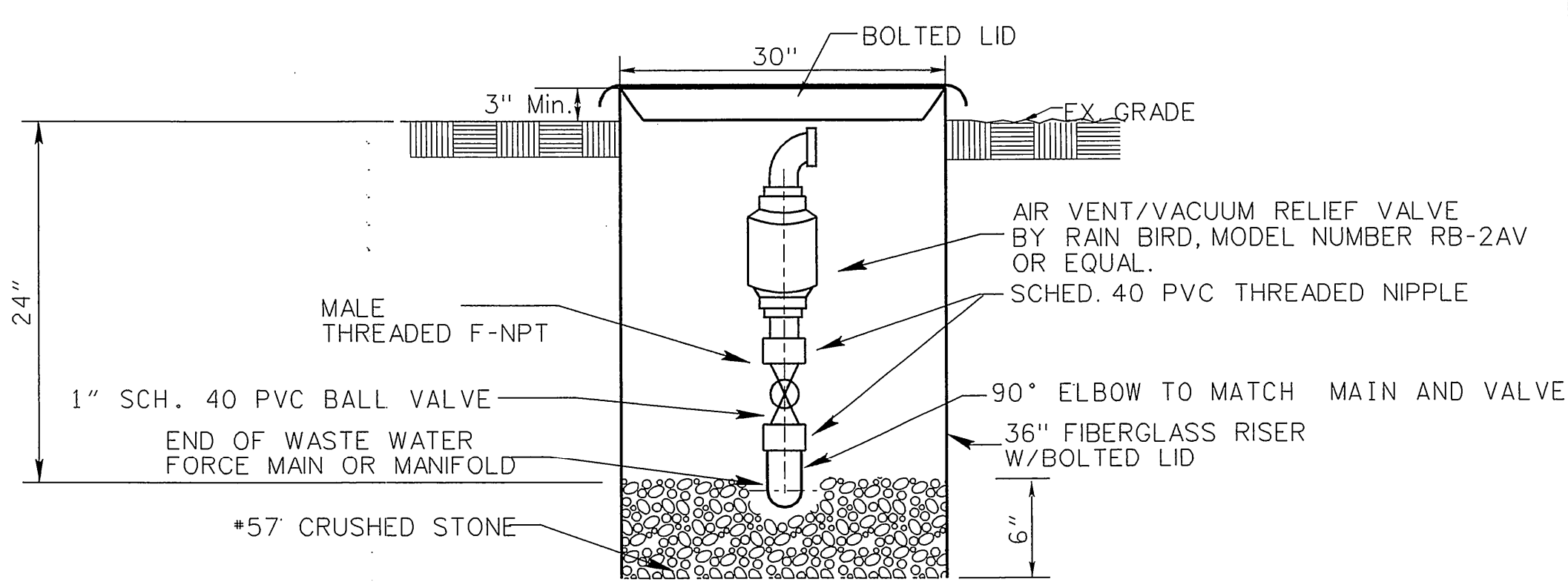
CLEANOUT AT GRAVITY SEWER TURNS

INCLUDED IN ITEM NO. 777-08.86



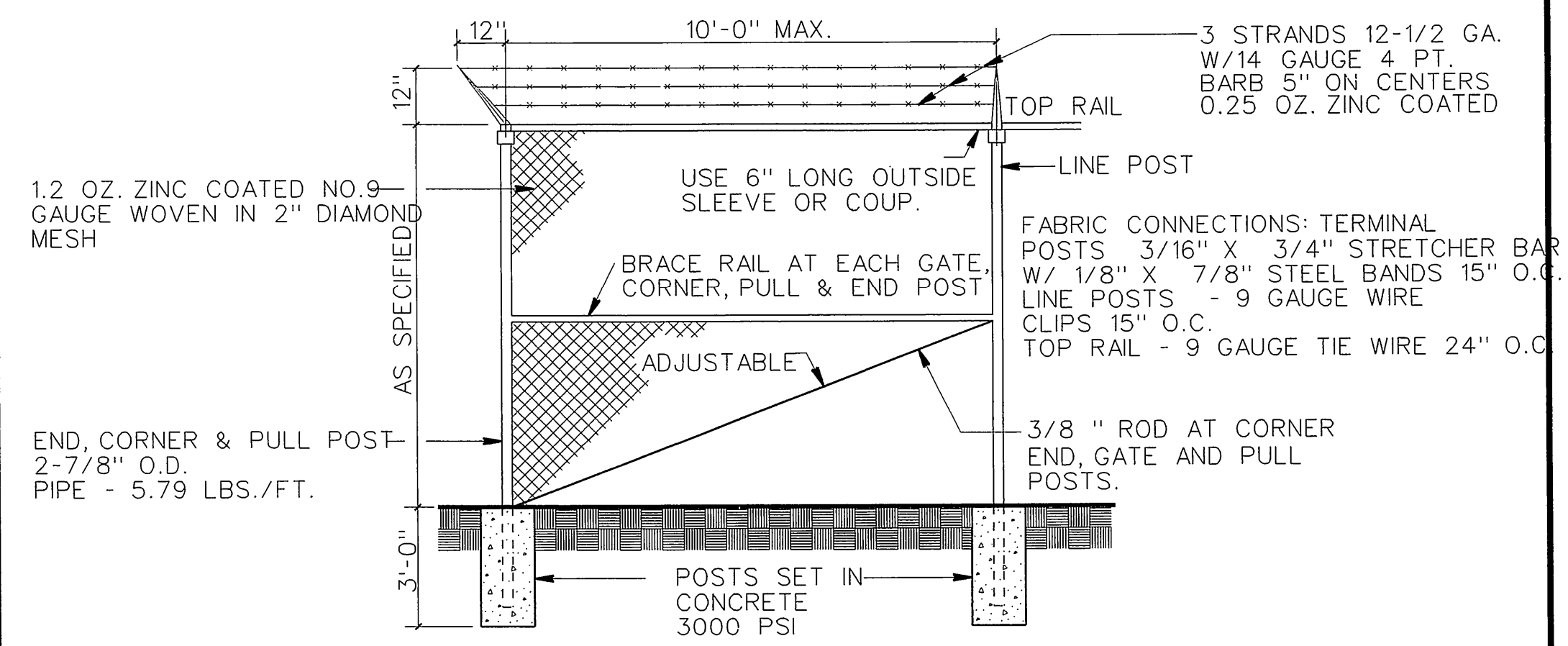
MONITORING WELL DETAIL (5) SIMILAR

INCLUDED IN ITEM NO. 777-08.90



COMBINATION AIR RELEASE VALVE MANHOLE DETAIL

INCLUDED IN ITEM NO. 777-08.89

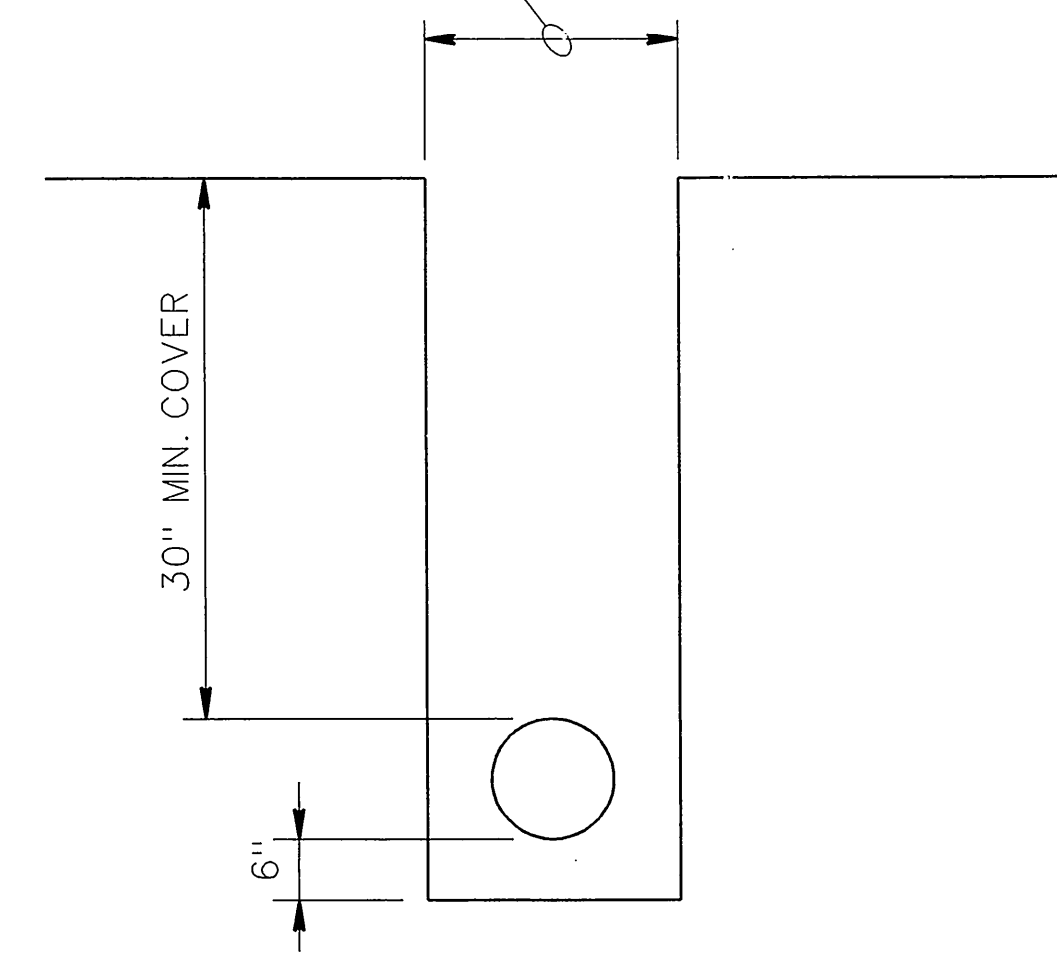


FENCE DETAIL

SCALE: N.T.S.
INCLUDED IN ITEM NO. 777-08.87

NOTE: MAINTAIN 30" OF COVER EXCEPT WHERE SHALLOWING WILL BE NECESSARY FOR ACCESS RISERS, VALVES AND VALVE BOXES, AND INDIVIDUAL ZONE SUPPLY LINES, ETC.

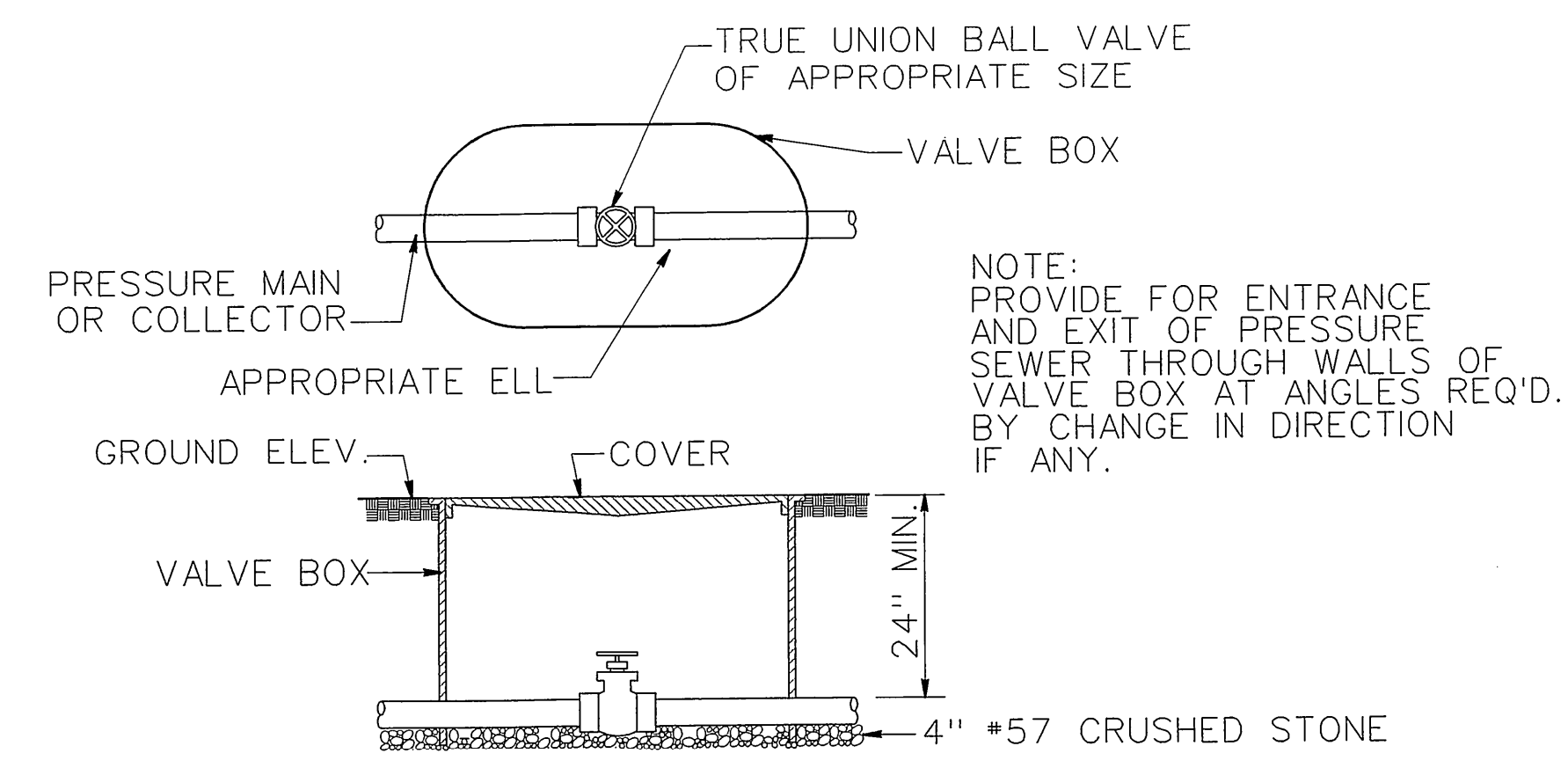
NO GREATER THAN $4/3 D + 15"$ WHERE D=INTERNAL PIPE DIAMETER



USE EXCAVATED SPOIL FROM TRENCH, FREE OF DEBRIS, AS BACKFILL.

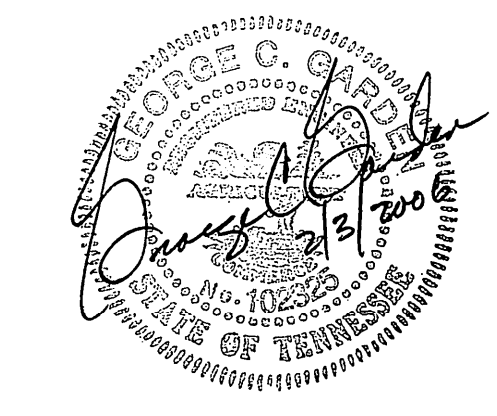
LAND APPLICATION SYSTEM FORCE MAIN TRENCH DETAIL

INCLUDED IN ITEM NO. 777-08.88 & 777-08.89



VALVE BOX ARRANGEMENT ALONG STRAIGHT RUNS

INCLUDED IN ITEM NO. 777-08.88



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT
MISCELLANEOUS DETAILS
I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

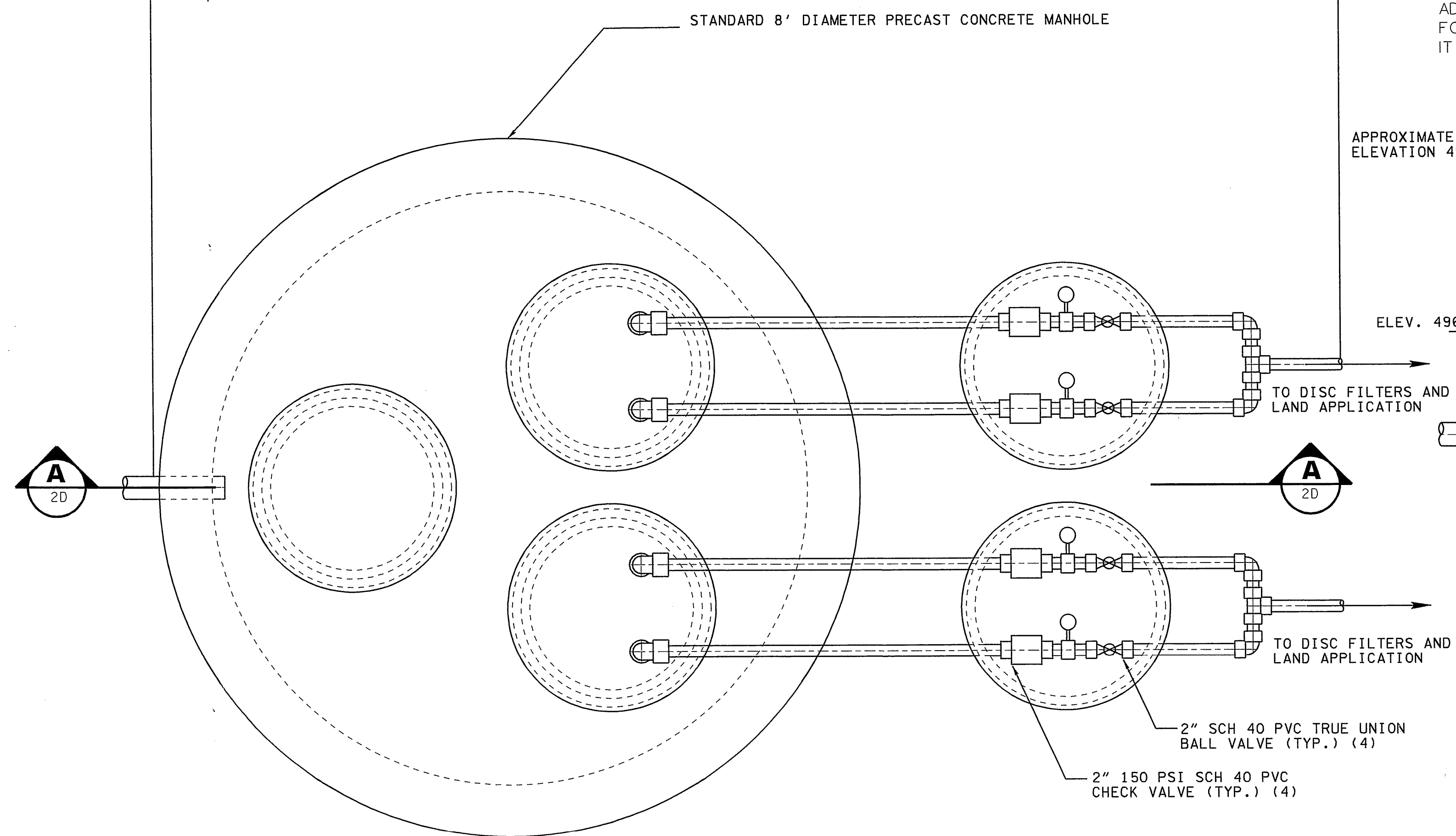
FILE NO. 31561-00
DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	2C

ITEM NO. 777-08.86

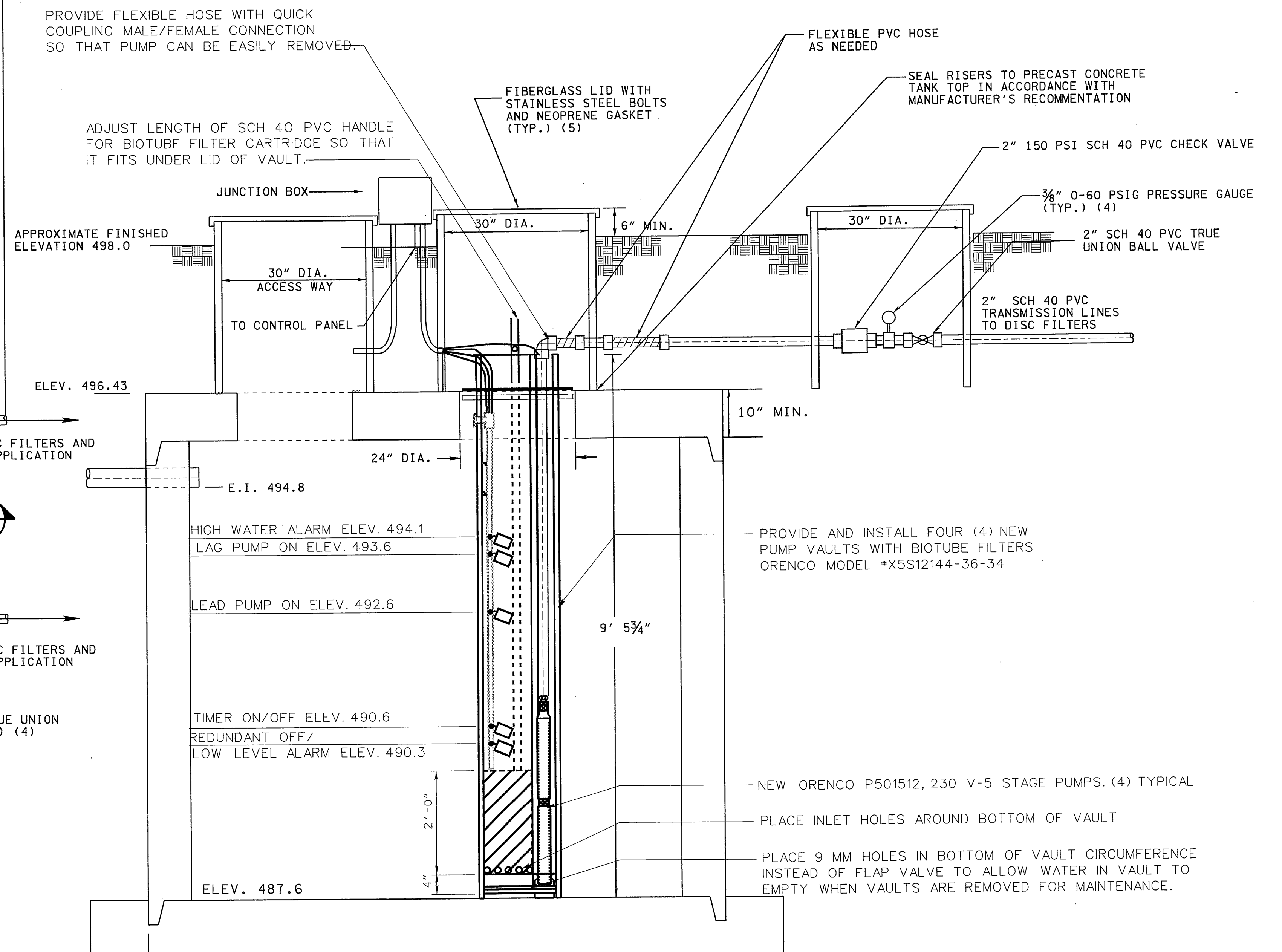
ITEM NO. 777-08.87

ITEM NO. 777-08.88



DOSING PUMP - PLAN

SCALE: 3/4" = 1' - 0"
ITEM NO. 777-08.87



DOSING PUMP TANK - SECTION

SCALE: 3/4" = 1' - 0"

ITEM NO. 777-08.87

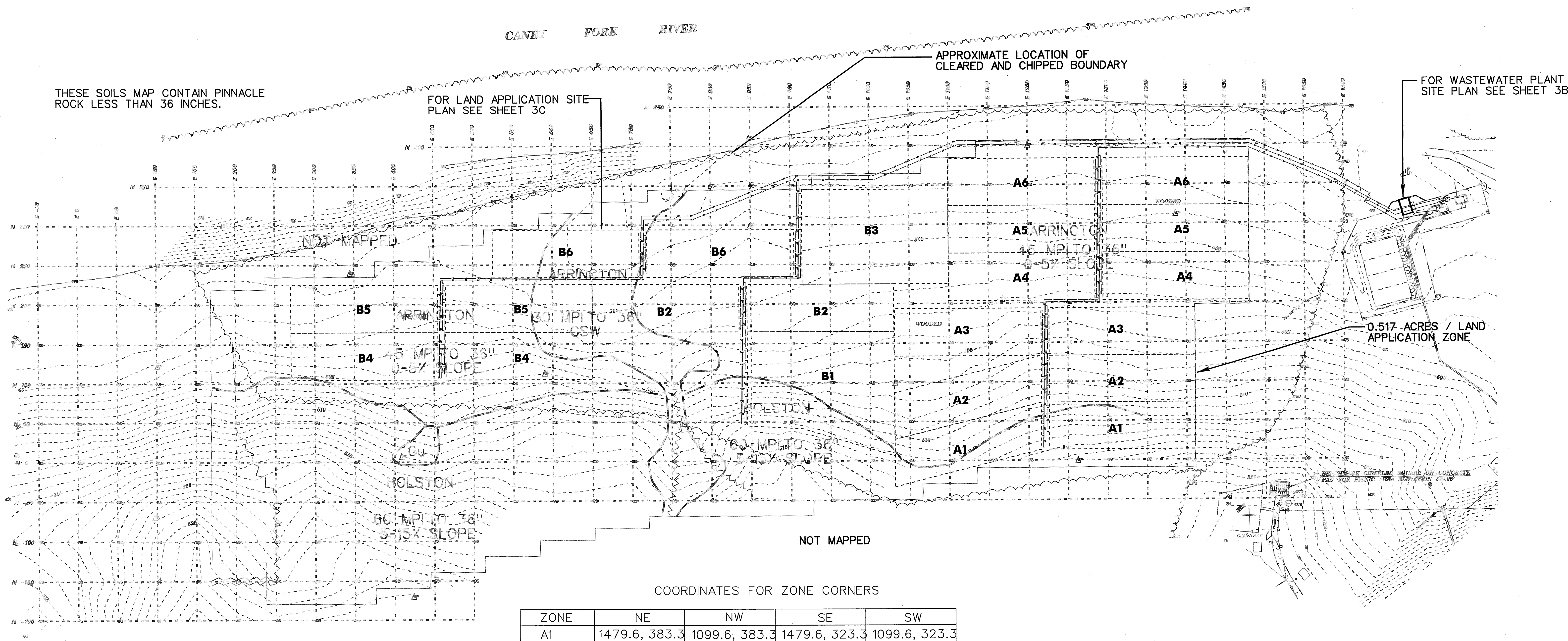


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**DOSING PUMP
STATION DETAIL**

1-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	3A



COORDINATES FOR ZONE CORNERS

ZONE	NE	NW	SE	SW
A1	1479.6, 383.3	1099.6, 383.3	1479.6, 323.3	1099.6, 323.3
A2	1479.6, 323.3	1099.6, 323.3	1479.6, 263.3	1099.6, 263.3
A3	1479.6, 263.3	1099.6, 263.3	1479.6, 203.3	1099.6, 203.3
A4	1411.0, 193.6	1031.0, 193.6	1411.0, 133.6	1031.0, 133.6
A5	1411.0, 133.6	1031.0, 87.2	1411.0, 73.6	1031.0, 27.2
A6	1411.0, 73.6	1031.0, 27.2	1411.0, 13.6	1031.0, -32.8
B1	1099.6, 344.9	914.6, 344.9	1099.6, 224.9	914.6, 224.9
B2	1030.1, 224.9	650.1, 224.9	1030.1, 164.9	650.1, 164.9
B3	1030.1, 164.9	845.1, 164.9	1031.0, 6.4	845.1, 44.9
B4	650.1, 164.9	270.1, 164.9	650.1, 104.9	270.1, 104.9
B5	650.1, 224.9	270.1, 224.9	650.1, 164.9	270.1, 164.9
B6	904.6, 293.9	524.6, 293.9	904.6, 233.9	524.6, 233.9

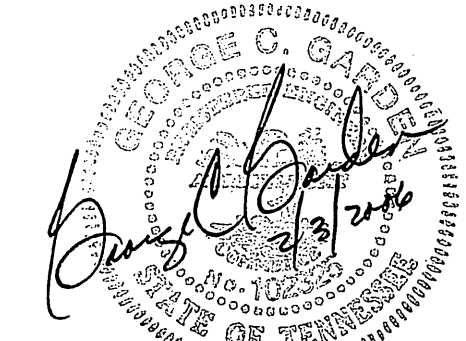
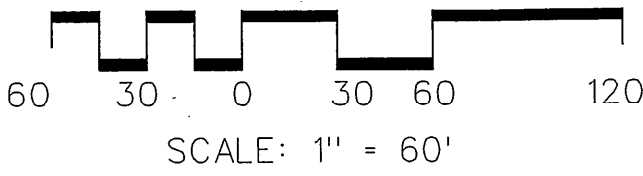
ALL COORDINATES ARE IN E/N

NOTES:

- THE SOIL SCIENTIST REPORT RELATES TO HYDRAULIC LOADING OF THE SOILS.
- THE DRIP IRRIGATION DESIGN AREA FOR THIS SYSTEM IS LIMITED BY NITROGEN RATHER THAN HYDRAULICS.
- DOSING ZONES HAVE BEEN CLEARED OF TREES.
- GRID IS BASED ON AN ASSUMED COORDINATE SYSTEM.
- DRIP IRRIGATION TUBING SHALL BE INSTALLED AT A DEPTH OF FOUR (4) TO SIX (6) INCHES BENEATH THE NATIVE SOIL SURFACE.

LEGEND

- CSW — CONTROL SURFACE WATER
- GULLEY (25' SETBACK RECOMMENDED)
- SMALL DRAIN (15' SETBACK RECOMMENDED)
- DRAIN ≥12" IN DEPTH (25' SETBACK RECOMMENDED)
- Gu — GULLIED/SEVERLY ERODED

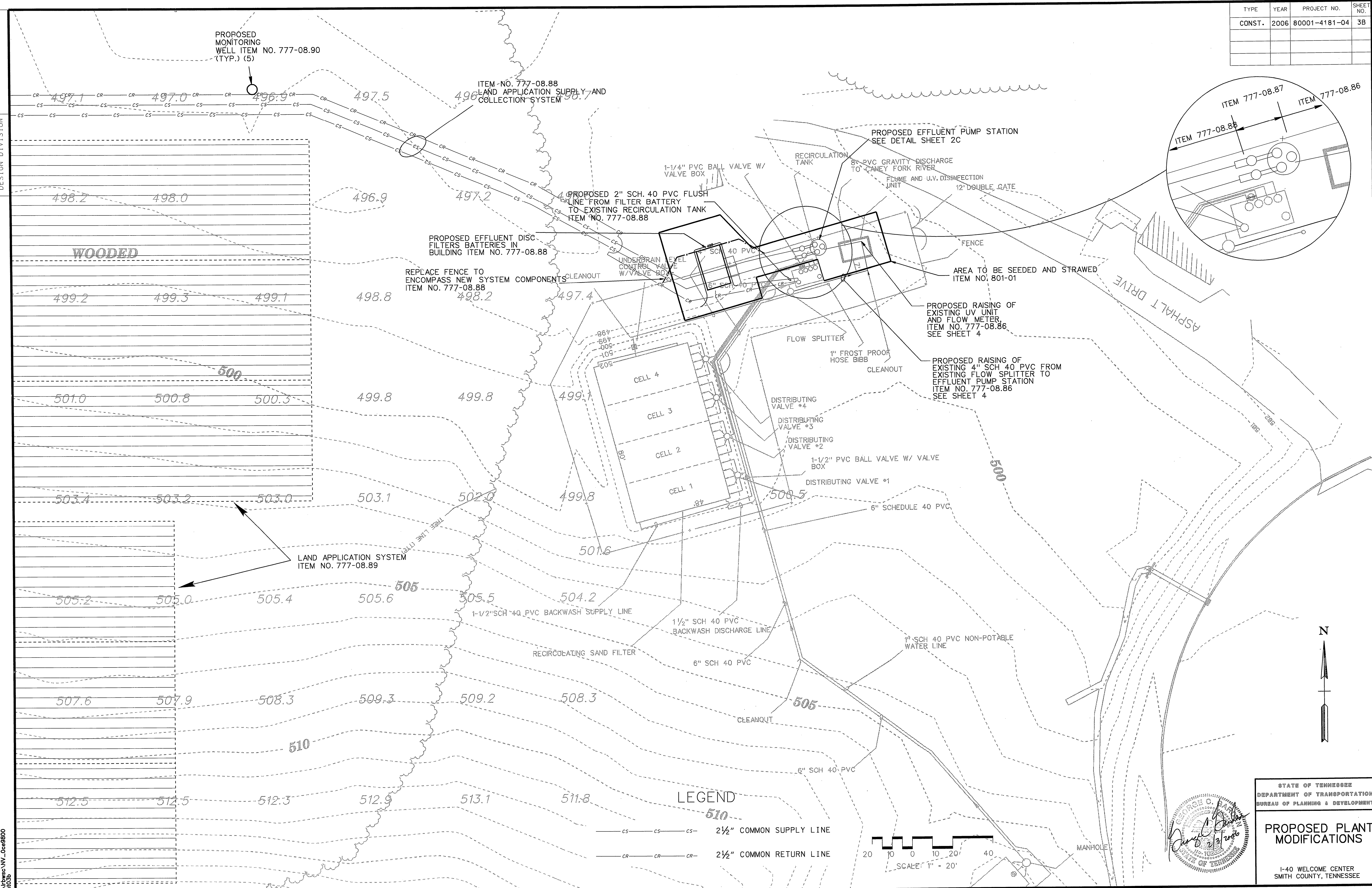


STATE OF TENNESSEE
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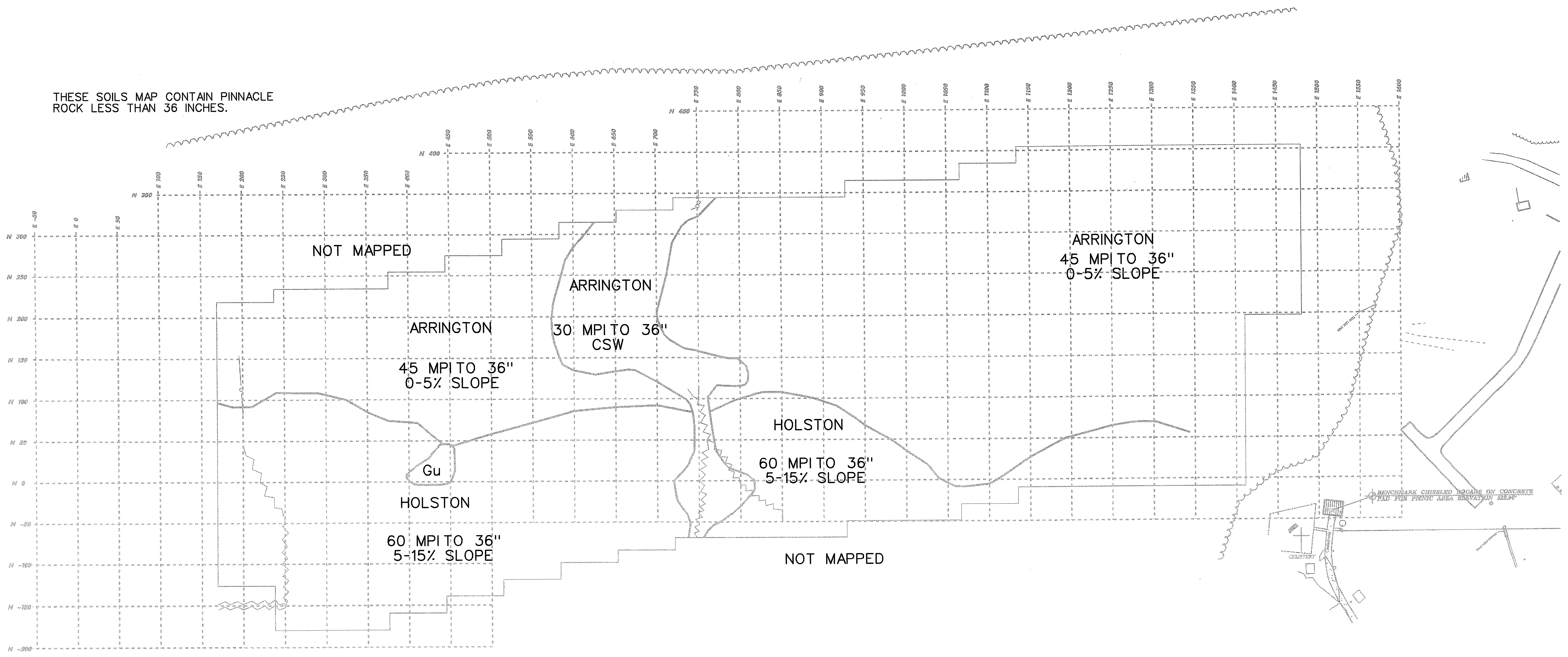
PROPOSED
OVERALL SITE PLAN

I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

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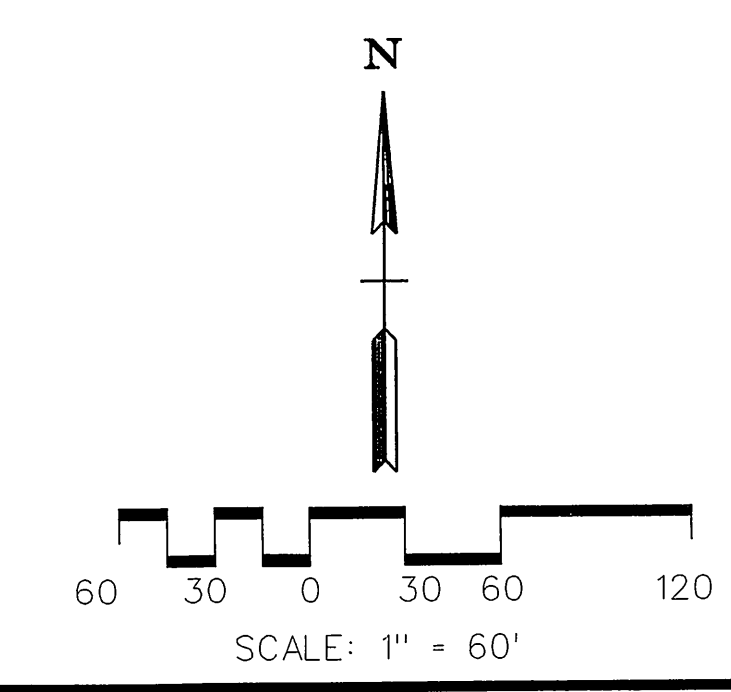
TYPE	YEAR	PROJECT NO.	SHEET NO.
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THESE SOILS MAP CONTAIN PINNACLE
ROCK LESS THAN 36 INCHES.

NOTE: THE SOIL SCIENTIST REPORT RELATES TO HYDRAULIC
LOADING OF THE SOILS. THE DRIP IRRIGATION DESIGN AREA FOR
THIS SYSTEM IS LIMITED BY NITROGEN RATHER THAN HYDRAULICS.
THE ACCEPTABLE ANNUAL HYDRAULIC LOADING IS 15 TIMES GREATER
THAN THE NITROGEN LOADING FOR THIS SYSTEM. THEREFORE, ALL
AREAS WERE USED FOR DRIP IRRIGATION.

- LEGEND**
- CSW — CONTROL SURFACE WATER
 - GULLEY (25' SETBACK RECOMMENDED)
 - SMALL DRAIN (15' SETBACK RECOMMENDED)
 - DRAIN ≥12" IN DEPTH (25' SETBACK RECOMMENDED)
 - Gu — GULLIED/SEVERLY ERODED

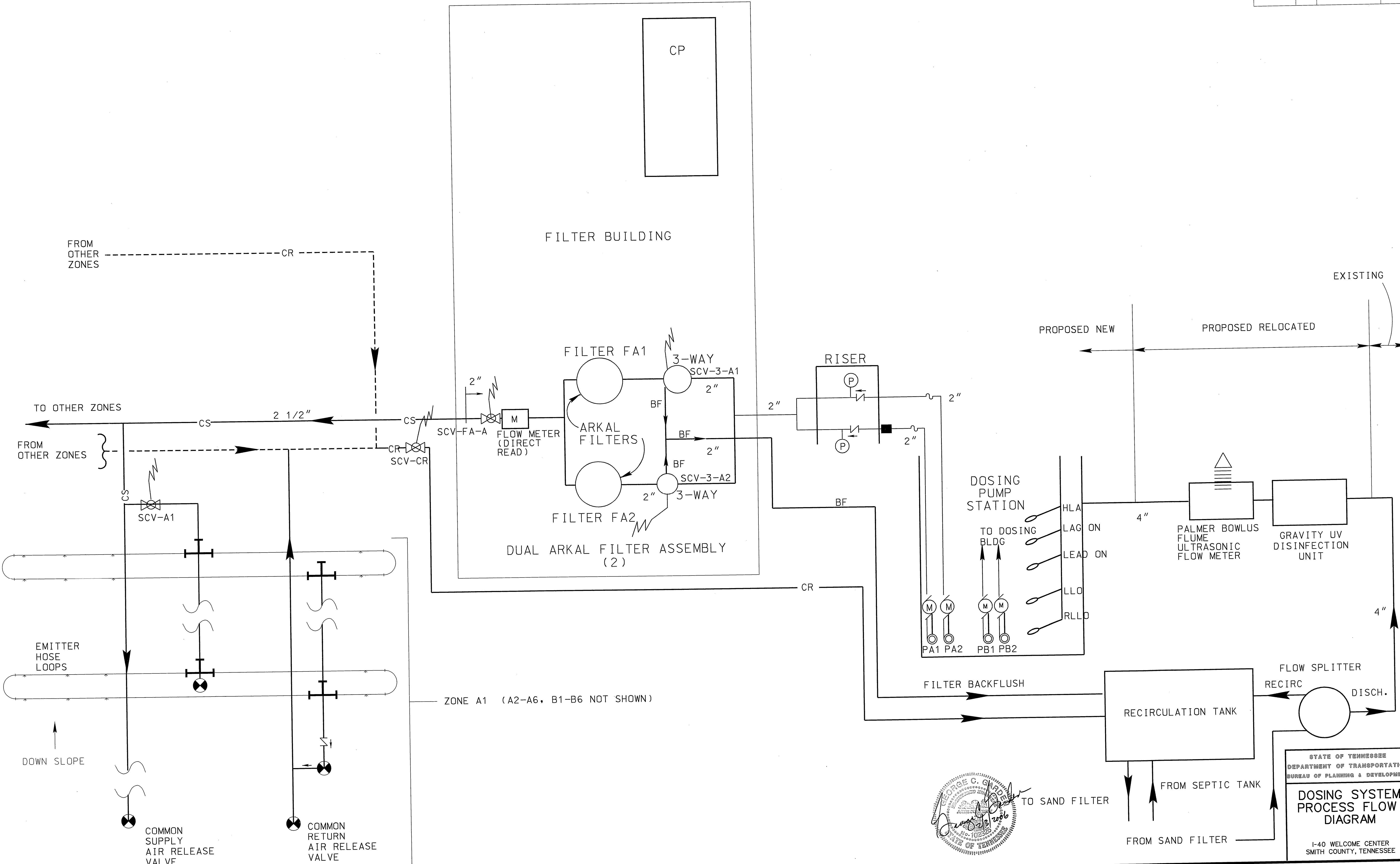


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**SOIL SCIENTIST
REPORT**

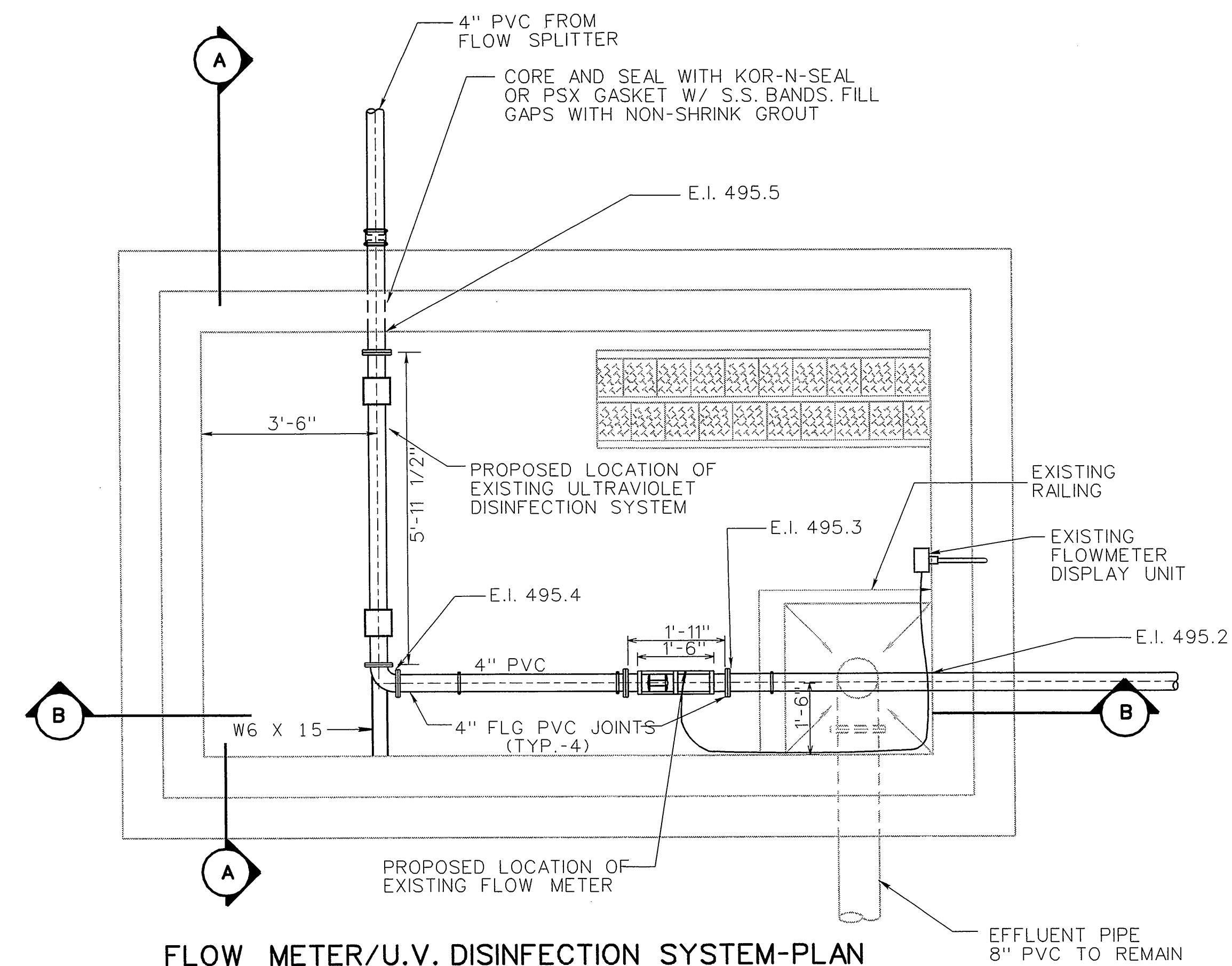
I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

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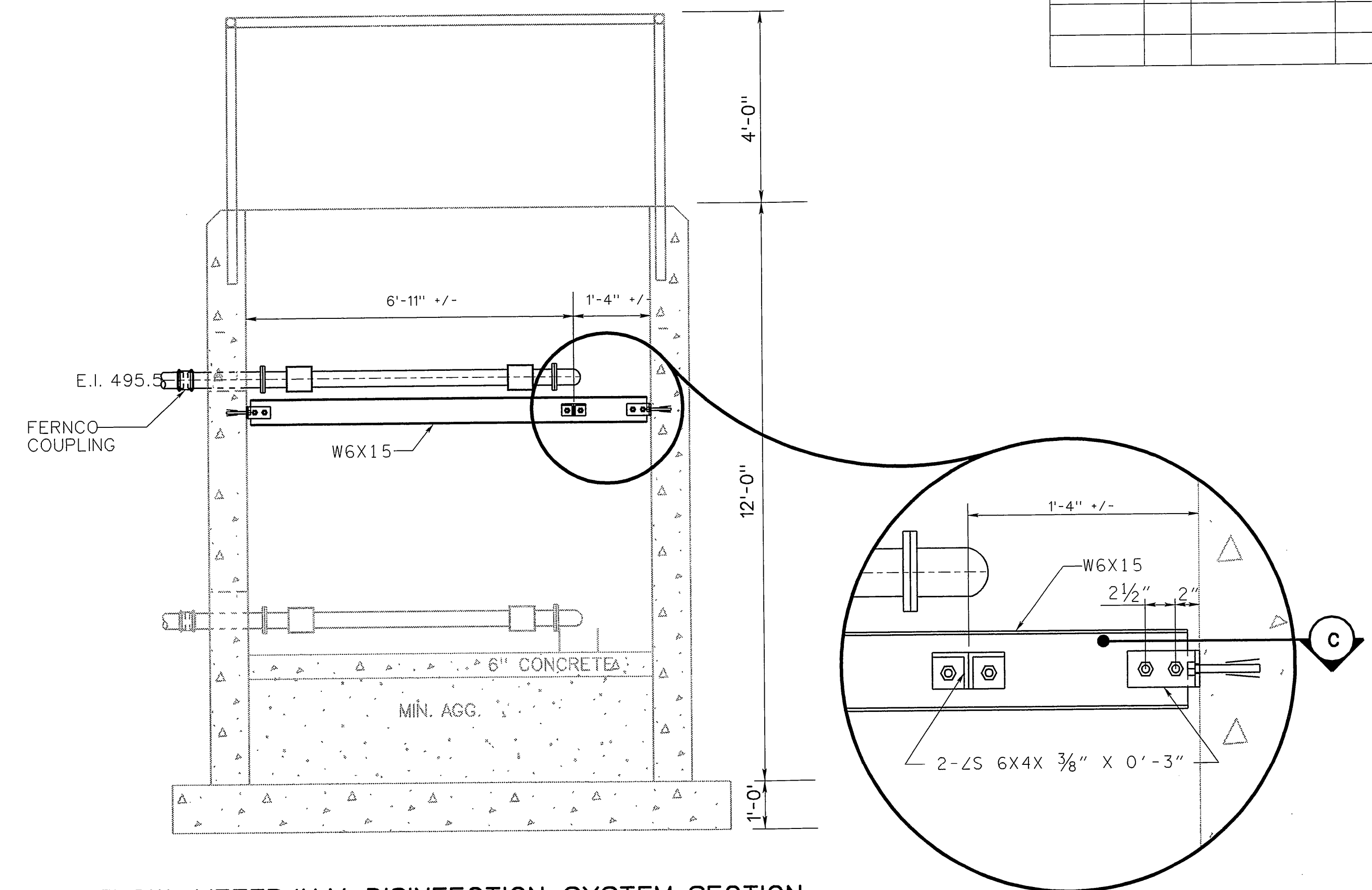


08/14/14
1-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

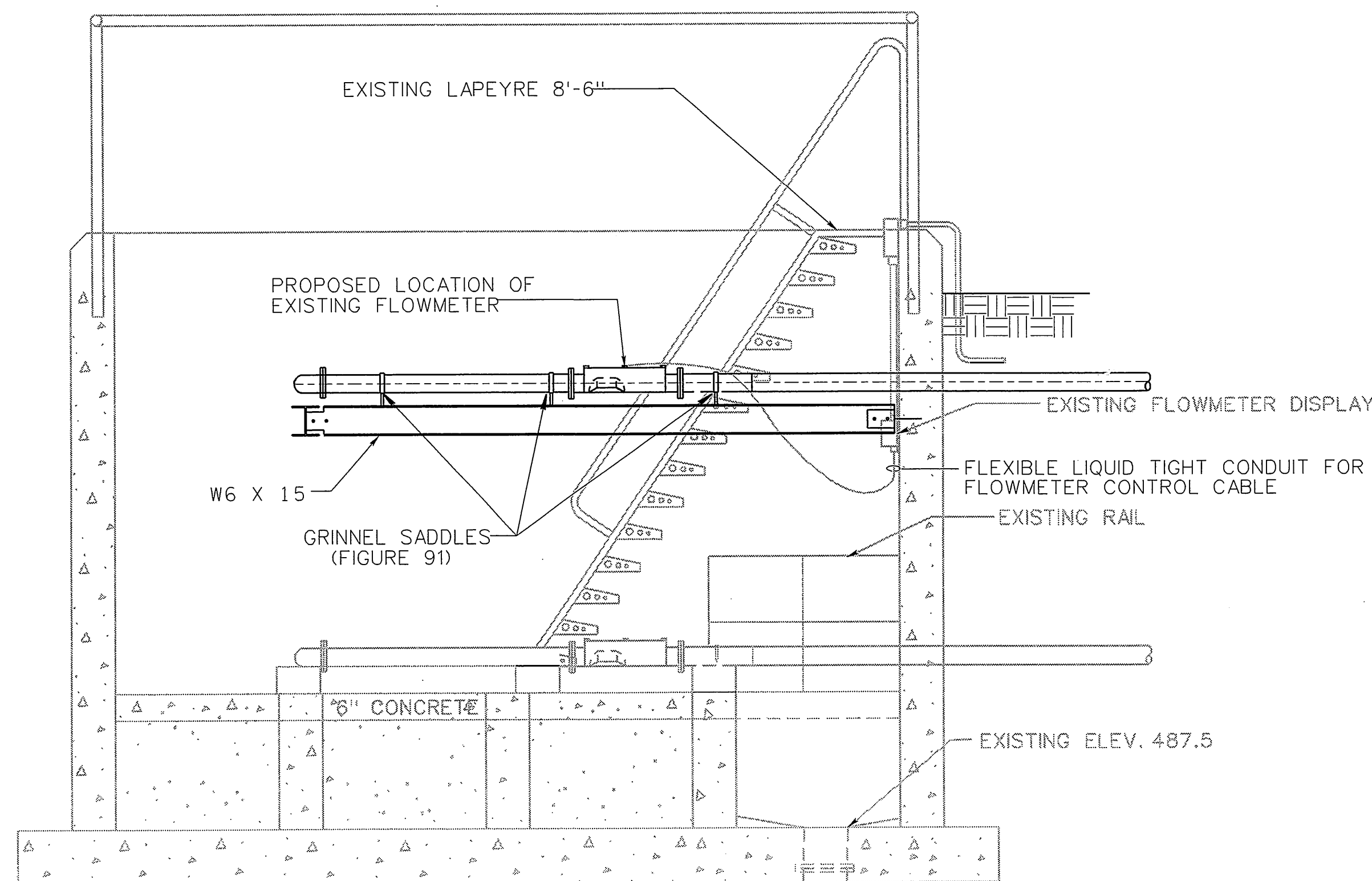
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4163-04	4



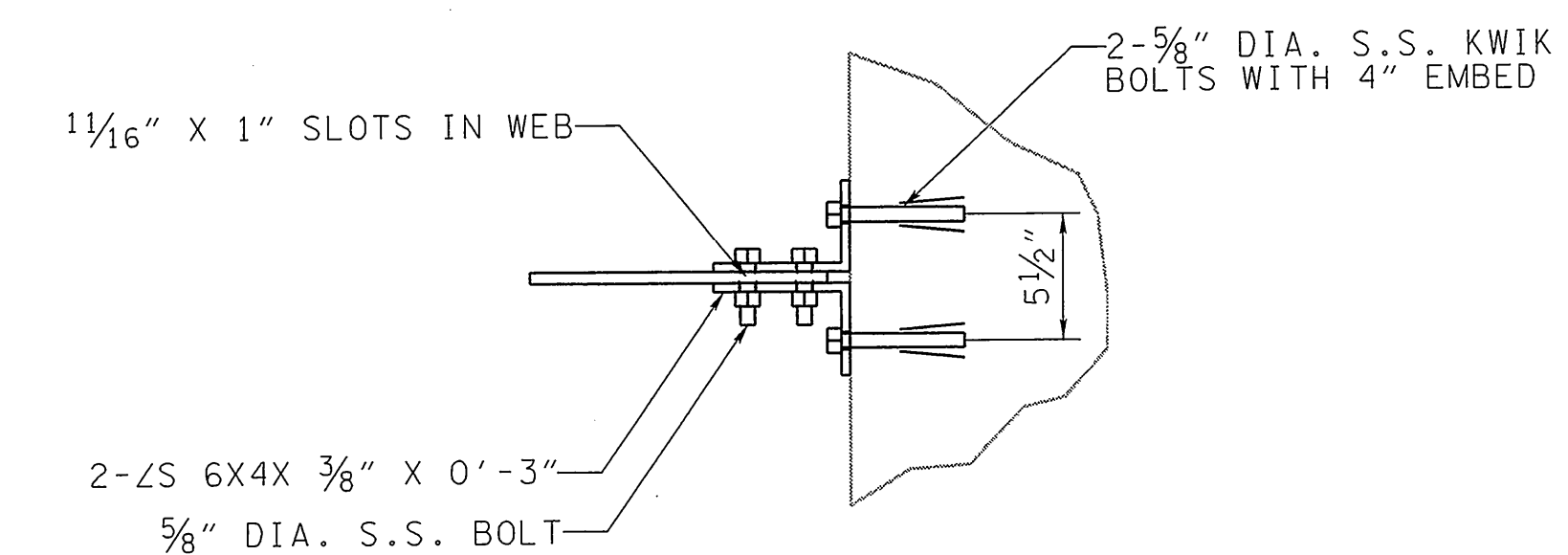
FLOW METER/U.V. DISINFECTION SYSTEM-PLAN



FLOW METER/U.V. DISINFECTION SYSTEM-SECTION A



FLOW METER/U.V. DISINFECTION SYSTEM-SECTION B



SECTION C

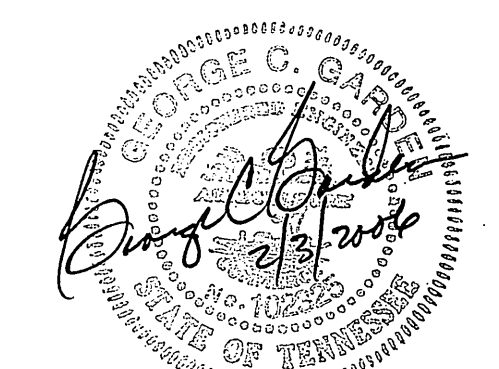
SCALE 1 1/2" = 1'-0"

NOTES:

- BEAMS SHALL BE ASTM A922., DOUBLE HOT DIPPED GALVANIZED AFTER FABRICATION
- ATTACH PIPES TO BEAMS WITH ANVIL / GRINNELL PIPE FITTINGS FIGURE 191. CUT BOTTOM LEG OF FITTING TO DESIRED LENGTH AND WELD TO BEAMS. (HEIGHT OF PIPE ABOVE BEAM SHALL BE FIELD DETERMINED TO SUIT EXISTING ULTRAVIOLET DISINFECTION SYSTEM.)
- CONTRACTOR SHALL SECURE EXISTING ULTRAVIOLET DISINFECTION SYSTEM TO BEAM IN ACCORDANCE WITH RECOMMENDATIONS OF SAID SYSTEM. (COORDINATE WITH OWNER AND EXISTING O & M MANUAL)

MODIFICATION OF EXISTING UV UNIT & FLOW METER

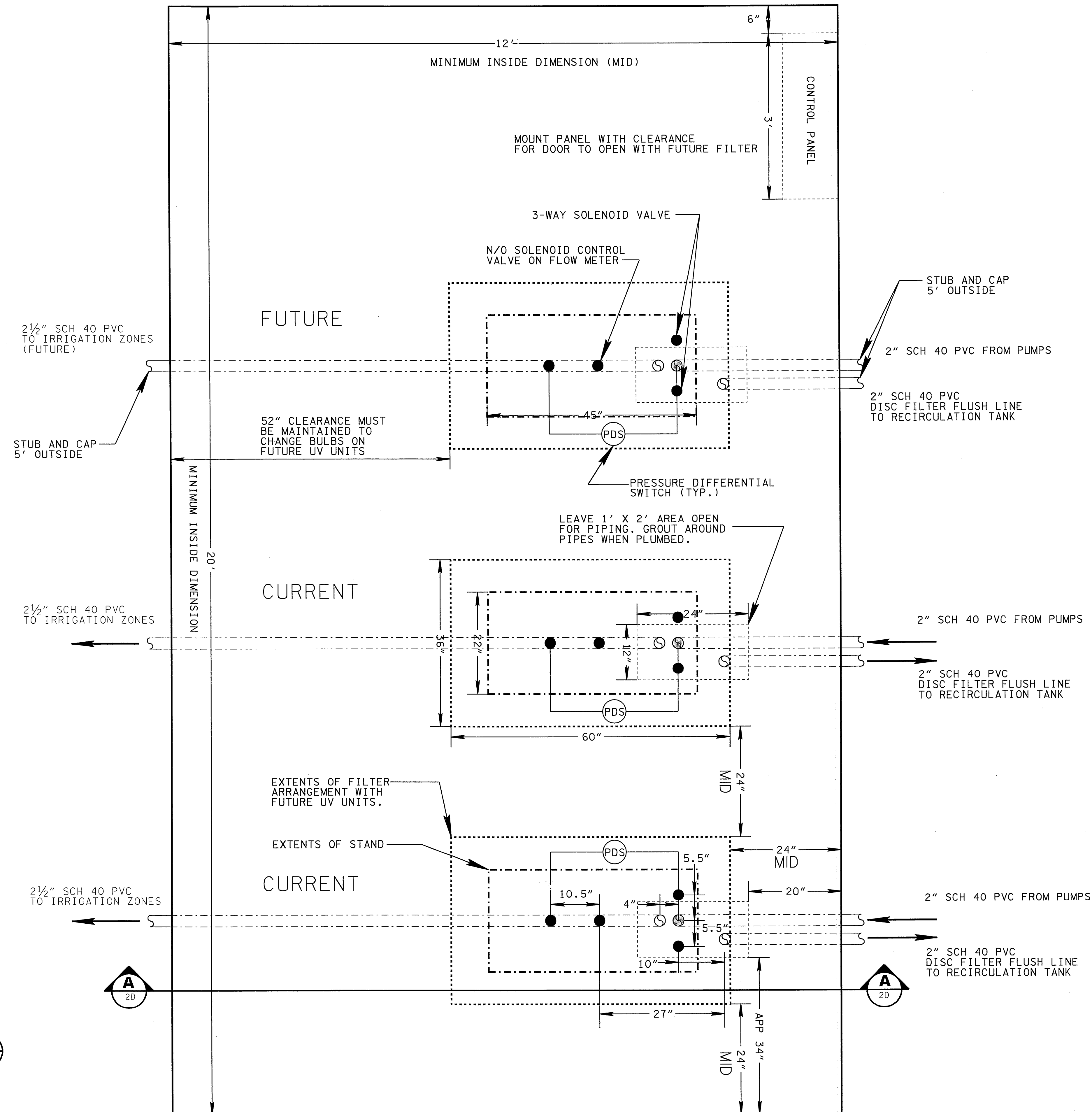
SCALE: 1/2"=1'-0" ITEM NO. 777-08.86



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED
FLOW METER/
U.V. DISINFECTION
SYSTEM
MODIFICATIONS
1-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

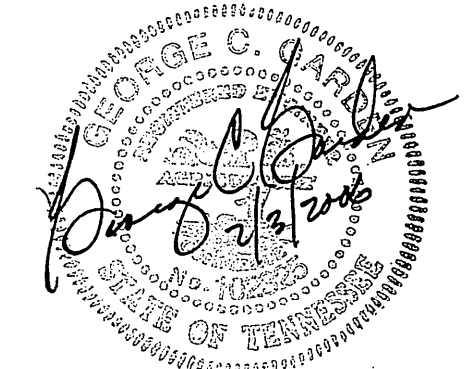
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	5



NOTE:
DIMENSIONS SHOWN ON THIS PAGE ARE
TO SHOW REQUIRED CLEARANCES.

COORDINATE WITH STRUCTURAL
AND ELECTRICAL

SCALE: 1" = 1'



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**PROPOSED
DISC FILTER
BUILDING LAYOUT**

I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

FINISH SCHEDULE															
NO.	ROOM NAME	FLOOR	BASE	WALLS								CEILING HEIGHT	CEILING		REMARKS
				MATERIAL				FINISH					MAT.	FIN.	
				N	S	E	W	N	S	E	W				
101	FILTER ROOM	FAS		CMU	CMU	CMU	CMU	EP	EP	EP	EP	8'-1"	PLWD	SG	

DOOR SCHEDULE																	
DOOR SYMBOL		DOOR						FRAME				FIRE RAT'G LABEL	HDW. SET NO.	REMARKS	DOOR NO		
		SIZE				MAT.	TYPE	GLASS	UNDER CUT	MAT.	TYPE					★ DETAILS	
		SPACE	MARK	WIDTH	HEIGHT											THICK	HEAD
101	101	3'-0"	7'-0"	1¾"	HM	F	-	-	HM	1	3/5C	2/5C	4/5C	-	1		101
101	102	PR3'-0"	7'-0"	1¾"	HM	F	-	-	HM	-	3/5C	2/5C	4/5C	-	2		102

DOOR TYPES & FRAMES

SEE SCHED.
2" SEE SCHED.
4" SEE SCHED.
1
2

LEGEND:

EP - EPOXY
HM - HOLLOW METAL
F - FLUSH DOOR
CMU - CONCRETE MASONRY UNIT
PLWD - PLYWOOD
FAS - FLUID APPLIED SEALER
SG - SEMI-GLOSS LATEX

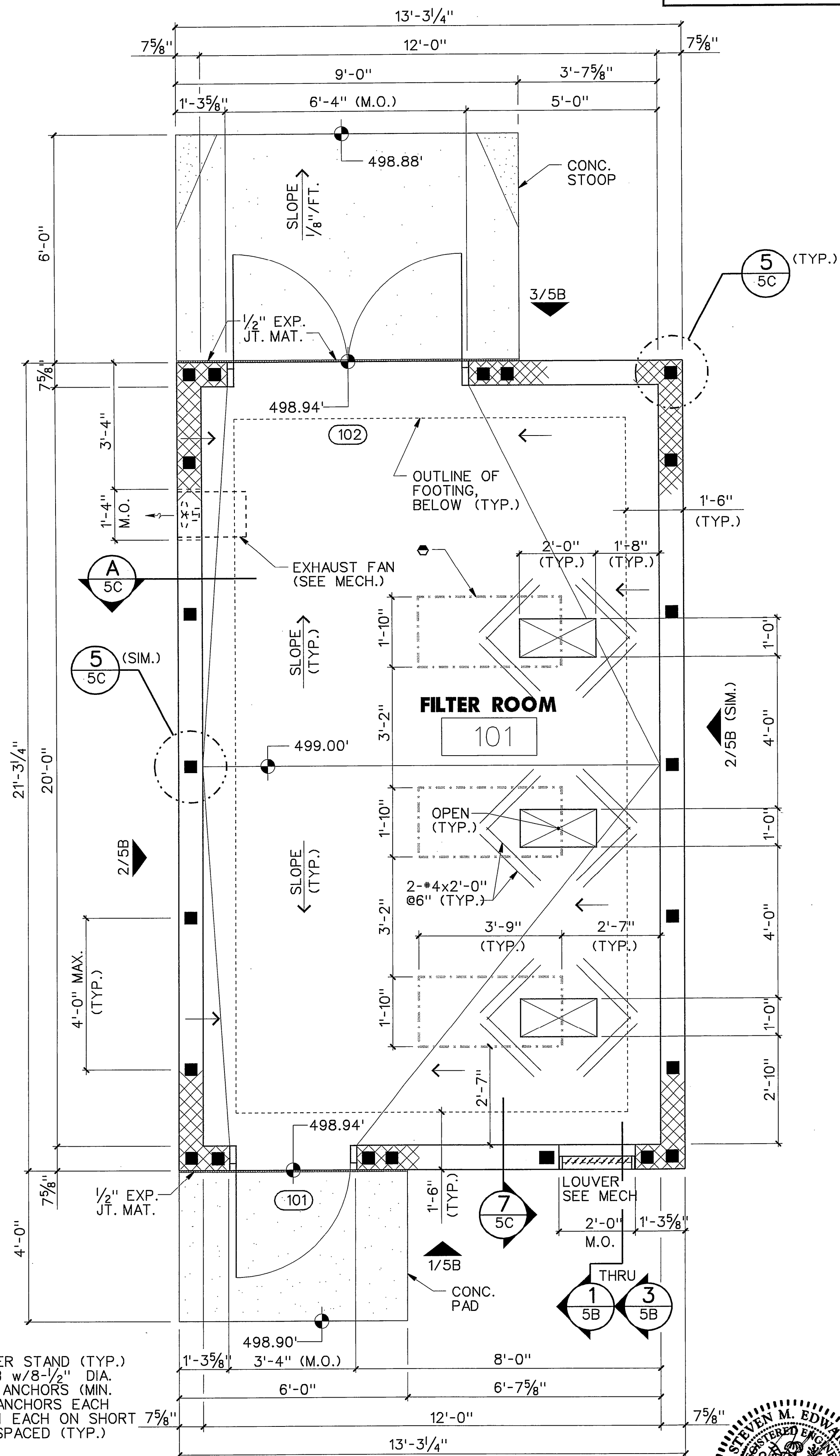
CODE DATA

2003 INTERNATIONAL BUILDING CODE
OCCUPANCY - FACTORY
INDUSTRIAL 1 BC 306.3, GROUP F-2
CONSTRUCTION TYPE - TYPE III
IBC SECTION 602

GENERAL NOTES AND DESIGN CRITERIA

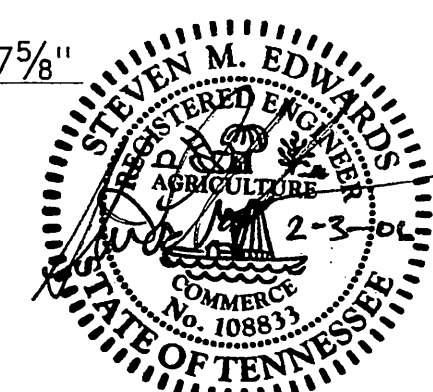
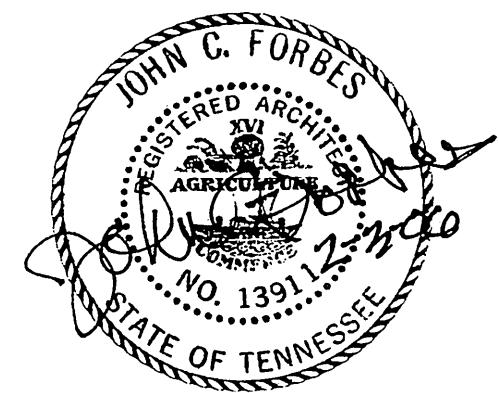
- DESIGN CRITERIA**
- 1.1 APPLICABLE CODE - 2003 INTERNATIONAL BUILDING CODE
- 1.2 DESIGN LOADS
- A. ROOF TRUSS LOADS:
TOP CHORD LIVE LOAD - 20 PSF
TOP CHORD DEAD LOAD - 10 PSF
BOTTOM CHORD DEAD LOAD - 10 PSF
- B. WINDS LOADS:
BASIC WIND SPEED - 90 MPH (3 SEC. GUST)
IMPORTANCE FACTOR - 1.0
EXPOSURE CATEGORY - C
INTERNAL PRESSURE COEFFICIENT - +/- 0.18
- C. SEISMIC LOADS:
SEISMIC USE GROUP - I
SDS - 0.28
SD1 - 0.20
SITE CLASS - D
BASIC SEISMIC RESISTING SYSTEM - REINF. MASONRY SHEAR WALLS
ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE
- D. SLAB-ON-GRADE LOADS
FILTER STANDS - 500 LB. / EA.
- FOUNDATIONS**
- 2.1 A SITE SPECIFIC SOILS EXPLORATION REPORT WAS NOT PERFORMED FOR THIS PROJECT. AS A RESULT, ALL FOUNDATIONS WERE DESIGNED BASED ON AN ALLOWABLE BEARING CAPACITY OF 1500 PSF. THE ALLOWABLE BEARING PRESSURES ARE BASED ON BEARING AGAINST FIRM, NON-EXPANSIVE, UNDISTURBED SOIL. WHERE UNACCEPTABLE MATERIAL OCCURS, EXCAVATE AND REPLACE WITH ENGINEERED FILL AS DIRECTED BY A LOCAL GEOTECHNICAL ENGINEER.
- 2.2. ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER PRIOR TO STEEL OR CONCRETE PLACEMENT TO ENSURE THE BEARING SURFACES ARE CONSISTENT WITH THE ALLOWABLE BEARING PRESSURES NOTED.
- REINFORCED CONCRETE**
- 3.1 MATERIALS:
- A. MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 4,000 psi
ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
- B. POST INSTALLED ANCHORS - KWIK BOLTS III BY HILTI OR EQUAL
- 3.2 CONTRACTOR SHALL EMPLOY A TESTING AGENCY ACCEPTABLE TO THE A/E TO PERFORM CONCRETE EVALUATION TESTS.
- 3.3 ALL CONCRETE SHALL BE MECHANICALLY VIBRATED IN ACCORDANCE WITH ACI 304 AND ACI 309.
- 3.4 CONCRETE STOOPS SHALL RECEIVE BROOM FINISH. SLAB-ON-GRADE TO RECEIVE STEEL TROWEL FINISH.
- MASONRY**
- 4.1 COMPRESSIVE STRENGTH OF CONCRETE MASONRY AS DEFINED IN THE ACI 530.1 SPECIFICATION SHALL BE f'm = 1,500 PSI MINIMUM AT 28 DAYS. CONTRACTOR SHALL SUBMIT CERTIFICATION TO STRUCTURAL ENGINEER INDICATING CONFORMANCE.
- 4.2 VERTICAL CORE REINFORCEMENT SHALL BE CONTINUOUS FOR FULL HEIGHT OF WALL AND DOWELED FROM FOOTING AND BE PLACED IN CENTER OF WALL.
- 4.3 ALL MASONRY CONSTRUCTION TO BE RUNNING BOND.
- 4.4 ALL GROUT SHALL HAVE A 2,500 PSI MINIMUM COMPRESSIVE STRENGTH. GROUT SHALL HAVE A SLUMP OF 8" TO 10".
- 4.5 MASONRY REINFORCEMENT SPLICES SHALL BE LAPPED 48 BAR DIAMETERS.

- WOOD TRUSSES**
- 5.1 ROOF TRUSSES SHOWN ON THE PLANS ARE ILLUSTRATIVE ONLY. THE DESIGN OF ALL WOOD TRUSSES SHALL BE DESIGNED AND ENGINEERED BY THE TRUSS MANUFACTURER/SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE PROJECT STATE.
- 5.2 ALL PERMANENT AND TEMPORARY TRUSS BRACING SHALL BE AS DIRECTED BY THE TRUSS DESIGNER.
- 5.3 STRUCTURAL ROOF SHEATHING SHALL BE FASTENED WITH, 6D COMMON NAILS, 6" O.C. AT EDGES AND 12" O.C. INTERMEDIATE AREA.
- 5.4 TRUSSES SHALL BE ANCHORED TO THE STRUCTURE AT EACH BEARING LOCATION IN ACCORDANCE WITH THE FRAMING PLANS AND DETAILS.
- MISCELLANEOUS**
- 6.1 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND JOBSITE CONDITIONS PRIOR TO BEGINNING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- 6.2 CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, AND TEMPORARY SUPPORTS OF THE STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE IS DESIGNED FOR A COMPLETED CONDITION ONLY AND THEREFORE MAY REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 6.3 FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS OPENINGS, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.



ALL ITEMS ON THIS SHEET ARE INCLUDED IN ITEM NO. 777-08.88

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	5A



FLOOR PLAN

FINISH FLOOR ELEV. 499.00'



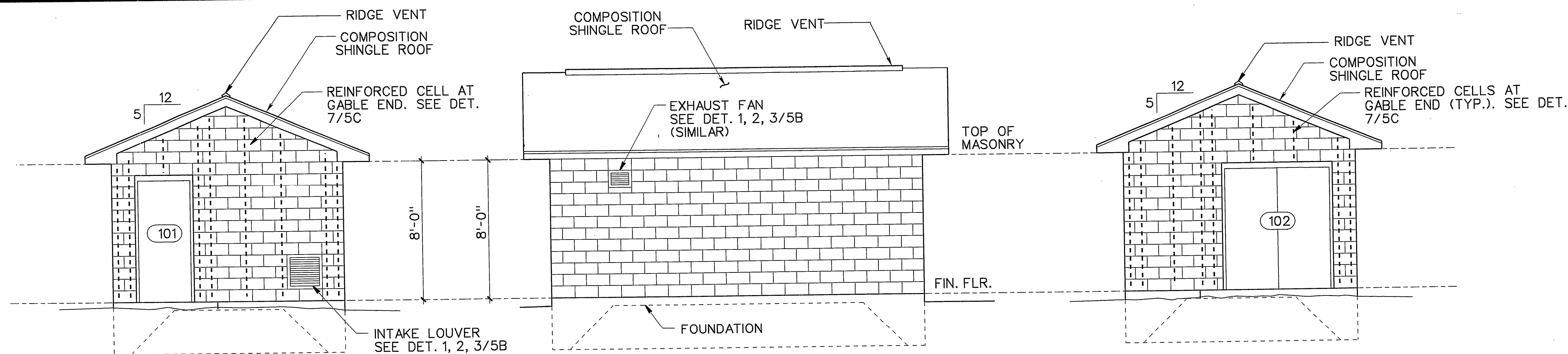
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

FLOOR PLAN,
SCHEDULES
AND DETAILS

I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

ALL ITEMS ON THIS SHEET ARE INCLUDED IN ITEM NO. 777-08.88

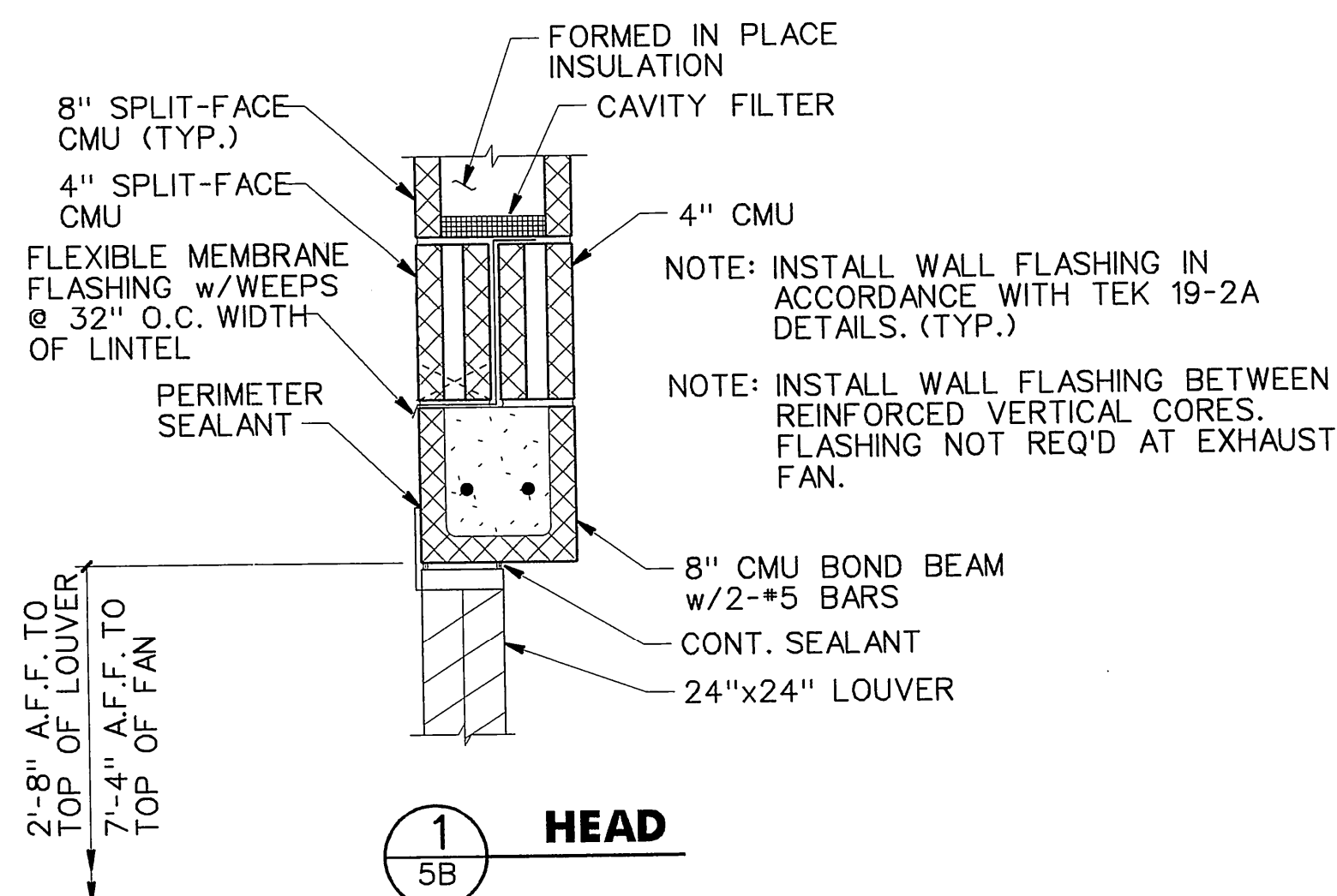
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	5B



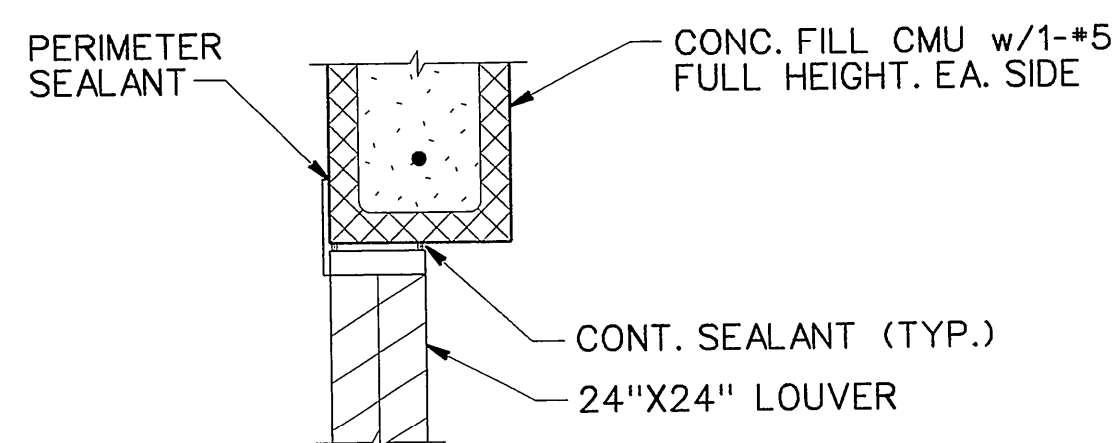
1 SOUTH ELEVATION
5B
0' 1' 2' 4' 6'

2 WEST ELEVATION (EAST SIM.)
5B
0' 1' 2' 4' 6'

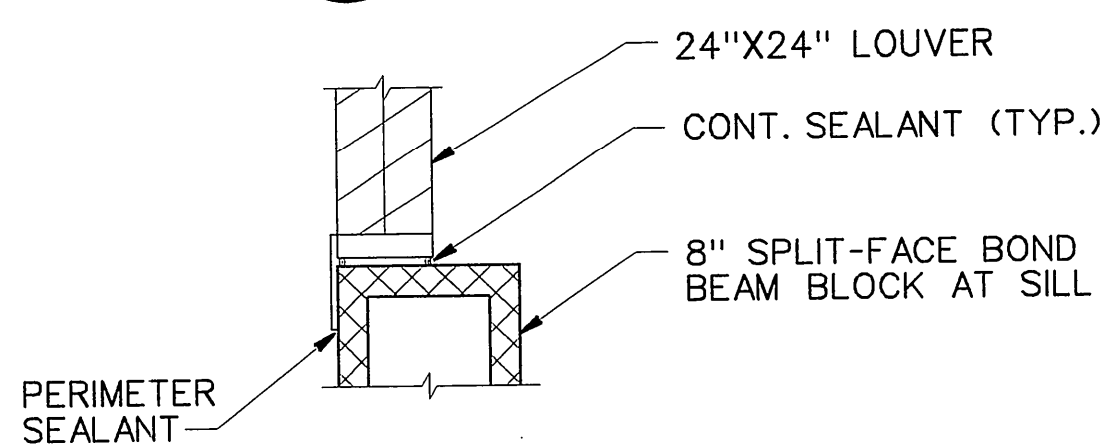
3 NORTH ELEVATION
5B
0' 1' 2' 4' 6'



1 HEAD
5B



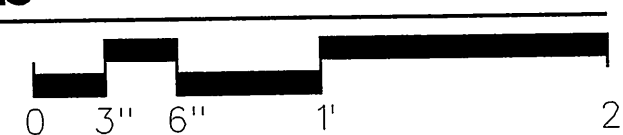
2 JAMB
5B



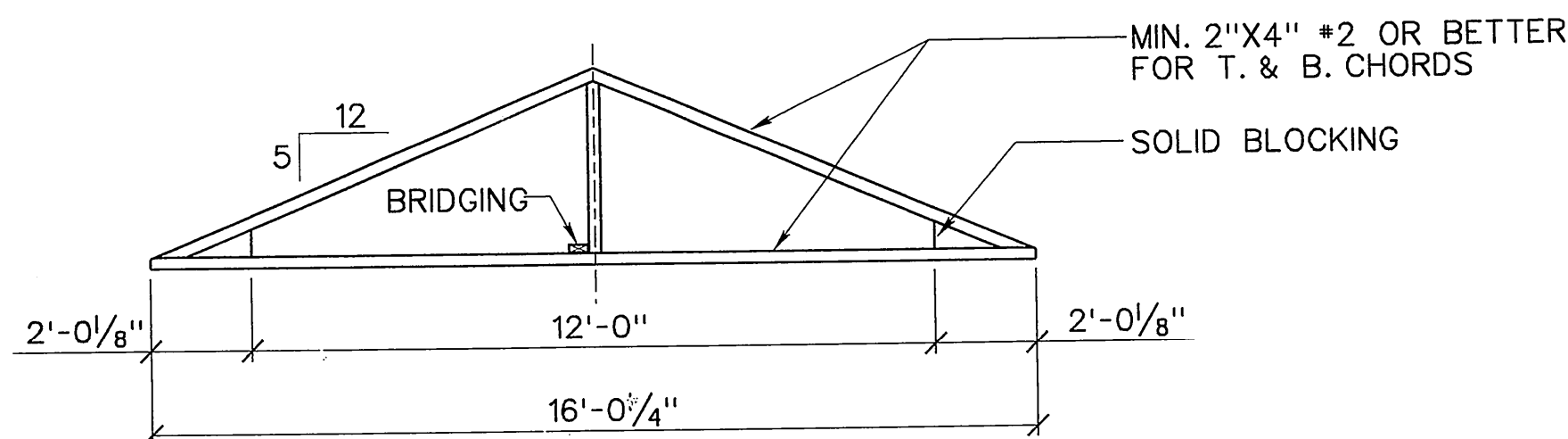
3 SILL
5B

NOTE: DETAIL SIMILAR FOR EXHAUST FAN.

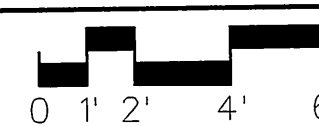
LOUVER DETAILS



NOTE: ALL ROOF CAPS, ROOF VENTS AND SIMILAR ITEMS ARE TO BE FIELD PAINTED TO MATCH ROOF COLOR.



TRUSS DIAGRAM



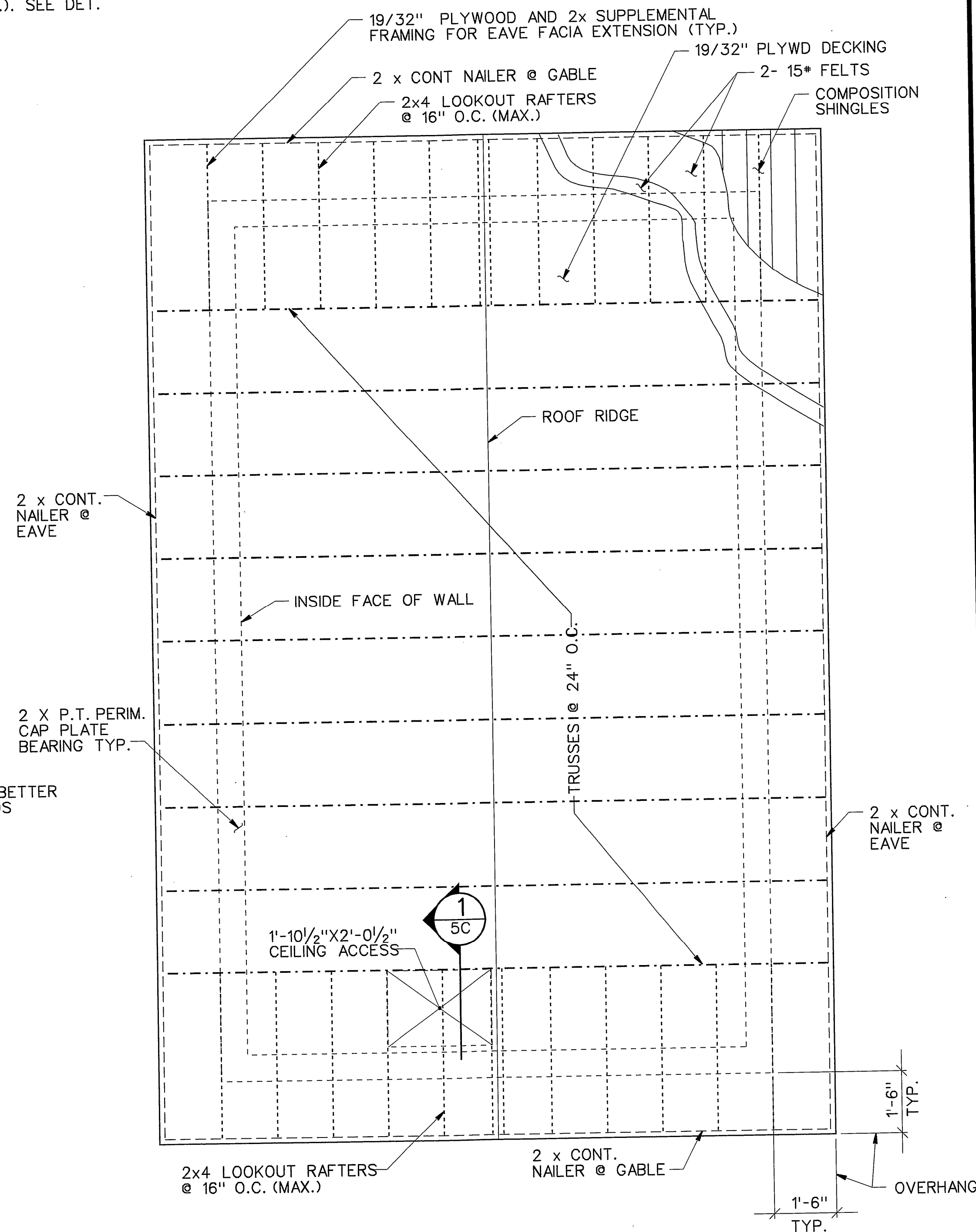
10 PSF D.L.
20 PSF L.L.

TOP CHORD

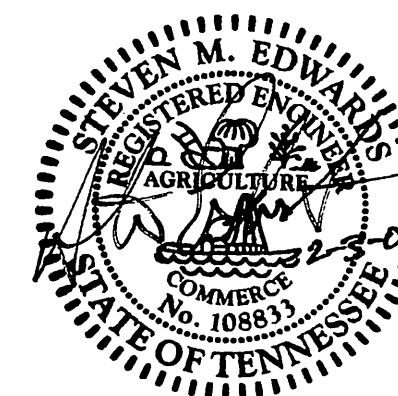
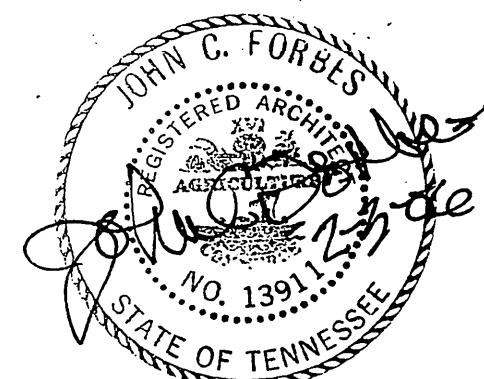
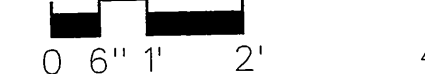
10 PSF D.L.

BOTTOM CHORD

TRUSS LOAD DIAGRAMS



ROOF FRAMING PLAN



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

BUILDING ELEVATIONS AND ROOF FRAMING PLAN

1-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

ALL ITEMS ON THIS
SHEET ARE INCLUDED
IN ITEM NO. 777-08.88

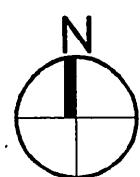
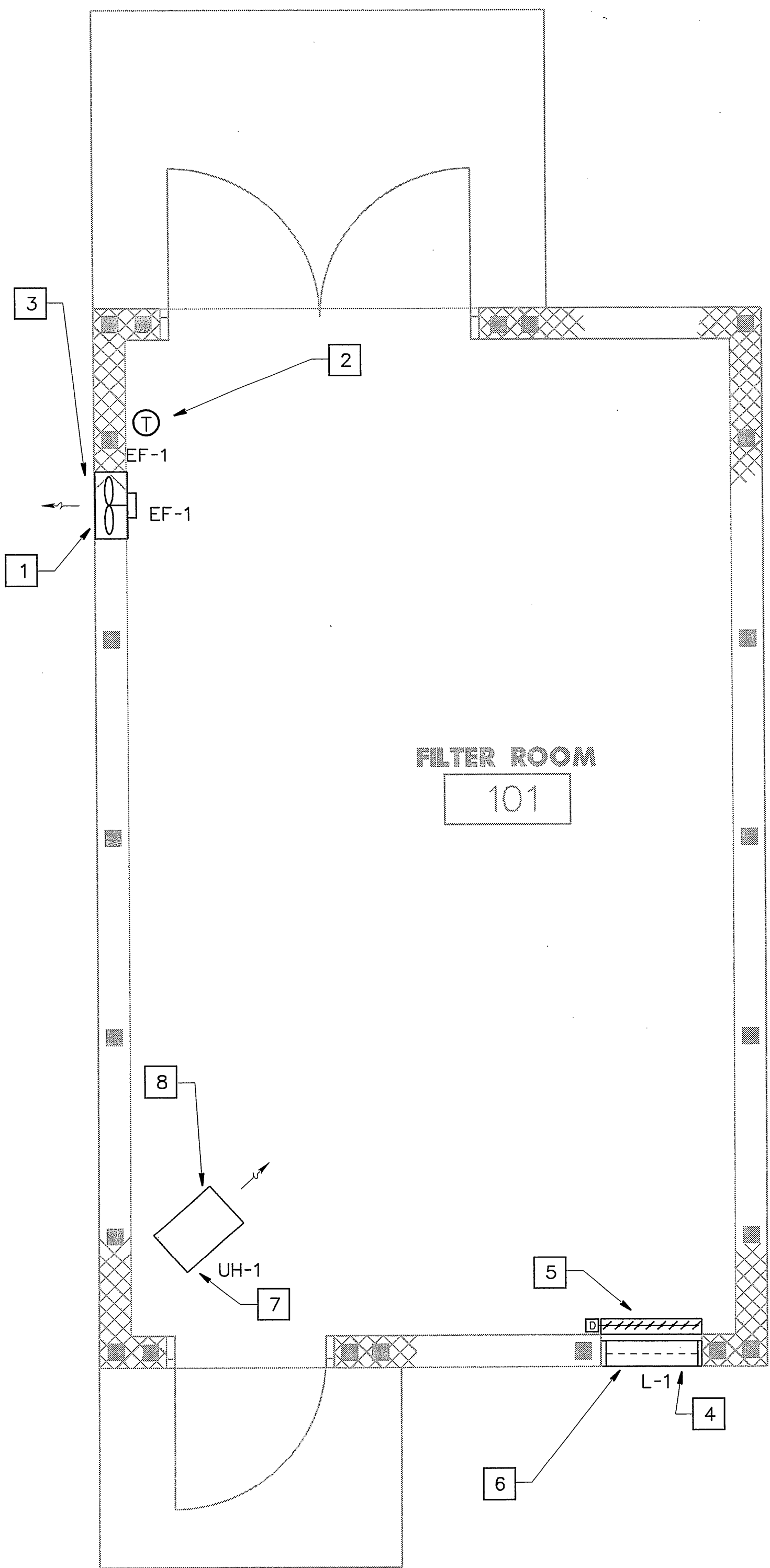
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	5D

MECHANICAL GENERAL NOTES:

- G1. PROVIDE MANUFACTURERS' RECOMMENDED CLEARANCE REQUIREMENTS ON ALL MECHANICAL EQUIPMENT.
- G2. ALL COMPONENTS MUST BE SUITABLE FOR THE TYPE OF ENVIRONMENT WHERE THEY ARE BEING USED.
- G3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.

MECHANICAL KEYED NOTES ☐ :

- 1 PROVIDE PROPELLER WALL EXHAUST FAN (EF-1) - LOREN COOK MODEL 10S15D (OR APPROVED EQUAL), DIRECT DRIVE, 700 CFM, 0.125 IN. WG STATIC PRESSURE, 1/20 HP ODP MOTOR, 115/1/60 ELECTRIC CONNECTION, DISCONNECT SWITCH, GRAVITY DISCHARGE SHUTTER, ALUMINUM PROPELLER BLADES, STEEL HUB, STEEL WIRE MOTOR GUARD, STEEL BASE AND WALL COLLAR, CORROSION RESISTANT FASTENERS.
- 2 PROVIDE LINE VOLTAGE COOLING THERMOSTAT (NEMA 4X) FOR EXHAUST FAN. WIRING BY ELECTRICAL.
- 3 MOUNT TOP OF FAN AT 7'-4" ABOVE FINISHED FLOOR.
- 4 PROVIDE 24" x 24" DRAINABLE EXTERIOR LOUVER (L-1) - RUSKIN ELF-6375DX (OR APPROVED EQUAL). ALUMINUM CONSTRUCTION, BIRDSCREEN, 6" DEPTH, KYNAR 500 FINISH (COLOR SELECTED BY ARCHITECT).
- 5 PROVIDE 120 VAC MOTORIZED PARALLEL BLADE INTAKE DAMPER (RUSKIN CD-35 OR APPROVED EQUAL) ATTACHED TO LOUVER, NORMALLY CLOSED, FOAM BLADE SEALS, INTERLOCK MOTORIZED DAMPER TO EXHAUST FAN BY ELECTRICAL.
- 6 MOUNT TOP OF LOUVER 2'-8" ABOVE FINISHED FLOOR.
- 7 PROVIDE ELECTRIC FAN FORCED WASHDOWN UNIT HEATER (UH-1) - MARKEL (OR APPROVED EQUAL). 3.3 KW, 240/3/60, 304 STAINLESS STEEL SHROUD, CORROSION-RESISTANT, BUILT-IN NEMA 4X THERMOSTAT/CONTROL PANEL, DISCONNECT SWITCH, AUTOMATIC RESET THERMAL CUTOUT, TOTALLY ENCLOSED MOTOR, CORROSION RESISTANT WALL MOUNT BRACKET.
- 8 MOUNT BOTTOM OF UNIT HEATER 7'-0" ABOVE FINISHED FLOOR.



MECHANICAL FLOOR PLAN

FINISH FLOOR ELEV. 499.00'



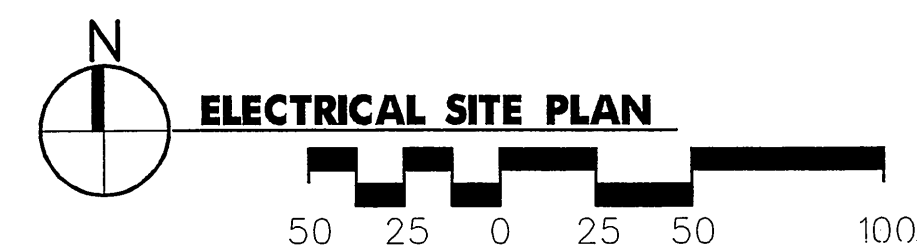
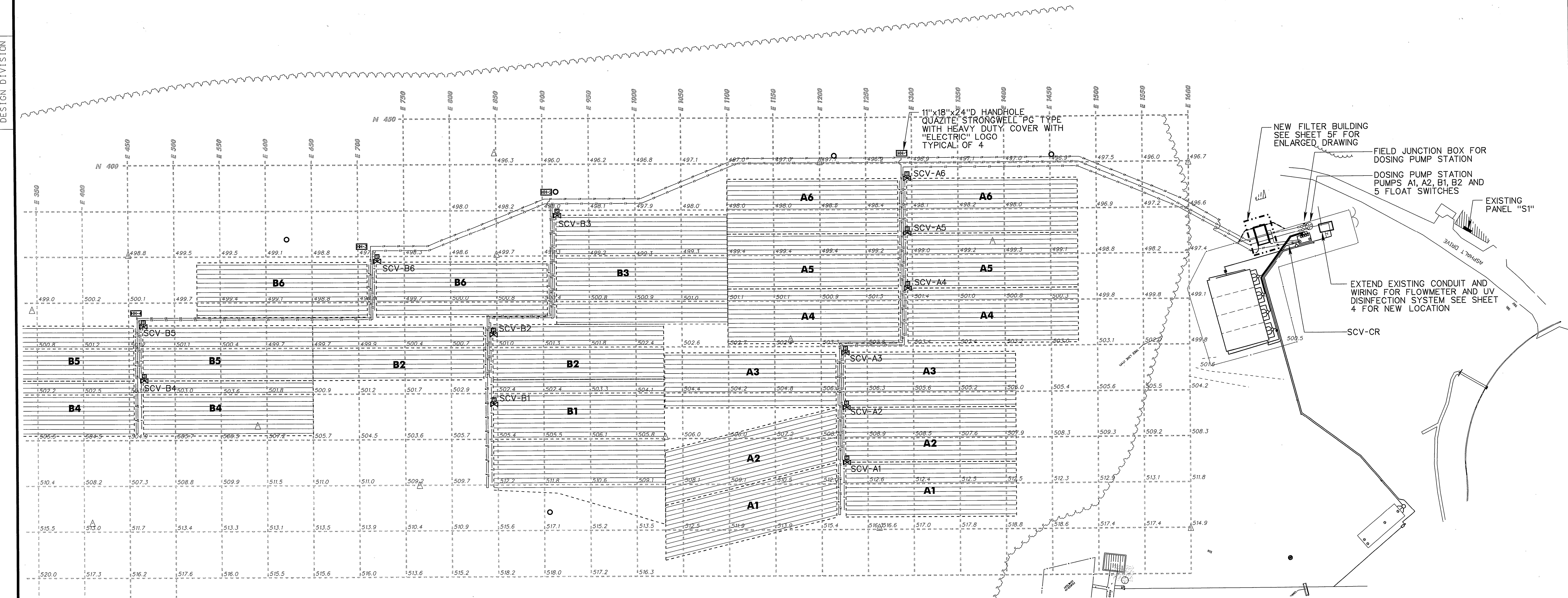
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**MECHANICAL FLOOR
PLAN AND NOTES**

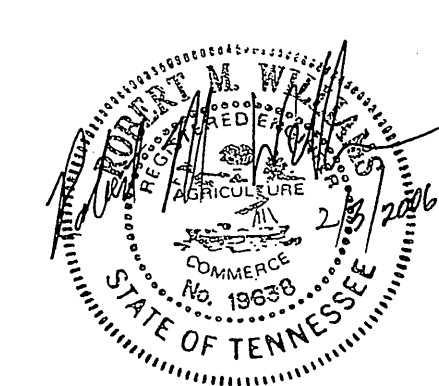
I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	5E

DESIGN DIVISION



- GENERAL NOTES:**
- A. SEE SHEET 5F FOR RISER DIAGRAM WITH WIRE AND CONDUIT SIZES.
 - B. SEE SHEETS 3B AND 3C FOR ITEM NUMBERS.

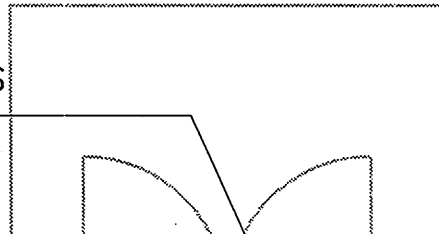


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

ELECTRICAL SITE PLAN

I-40 WELCOME CENTER
SMITH COUNTY, TENNESSEE

OUTDOOR FIXTURES
ARE UNSWITCHED



PANEL FB-1

PANEL: FB-1

CKT NO.	DIRECTORY	CKT BKR	LOAD (KVA)	ØA ØB ØC	LOAD (KVA)	CKT BKR	DIRECTORY	CKT NO.
1	LIGHTS	20/1	0.22	⎓ * ⎓	4.16	60/3	CONTROL PANEL	2
3	SPACE	-/		⎓ * ⎓	4.16	--/3	W/CIRCUIT 2	4
5	RECEPTACLES	20/1	0.72	⎓ * ⎓	4.16	--/3	W/CIRCUIT 2	6
7	EF-1	15/1	0.36	⎓ * ⎓	1.10	20/3	UH-1	8
9	SPACE	-/1		⎓ * ⎓	1.10	--/3	W/CIRCUIT 8	10
11	SPACE	-/1		⎓ * ⎓	4.16	--/3	W/CIRCUIT 8	12

SERVICE: 240/120 VOLT, 3 PHASE, 4 WIRE

LOCATION: FILTER BUILDING

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2006	80001-4181-04	5F

ELECTRICAL LEGEND

SYMBOL DESCRIPTION

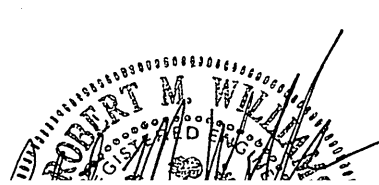
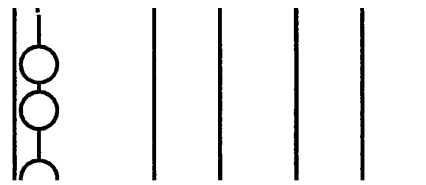
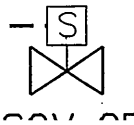
6*10,1*10GRD-1"C.

10*10,1*10GRD-1¼"C.

18*10,1*10GRD-1½"C.

32*10,1*10GRD-2"C.

2*14,1*14GRD-¾"C.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED ROADWAY QUANTITIES
2A	GENERAL NOTES & SCOPE OF WORK
2B	MISCELLANEOUS DETAILS
2C	DOSING PUMP STATION DETAIL
3	EXISTING SITE PLAN
3A	PROPOSED OVERALL SITE PLAN
3B	PROPOSED PLANT MODIFICATIONS
3C	PROPOSED SUBSURFACE LAND APPLICATION SYSTEM
3D	SOIL SCIENTIST REPORT
3E	DOSING SYSTEM PROCESS FLOW DIAGRAM
4	PROPOSED FLOW METER / UV DISINFECTION SYSTEM MODIFICATIONS
5	PROPOSED DISC FILTER BUILDING LAYOUT
5A	FLOOR PLAN SCHEDULES AND DETAILS
5B	BUILDING ELEVATIONS AND ROOF PLAN
5C	SECTIONS AND DETAILS
5D	MECHANICAL FLOOR PLAN AND NOTES
5E	ELECTRICAL SITE PLAN
5F	ENLARGED ELECTRICAL PLAN AND DIAGRAM

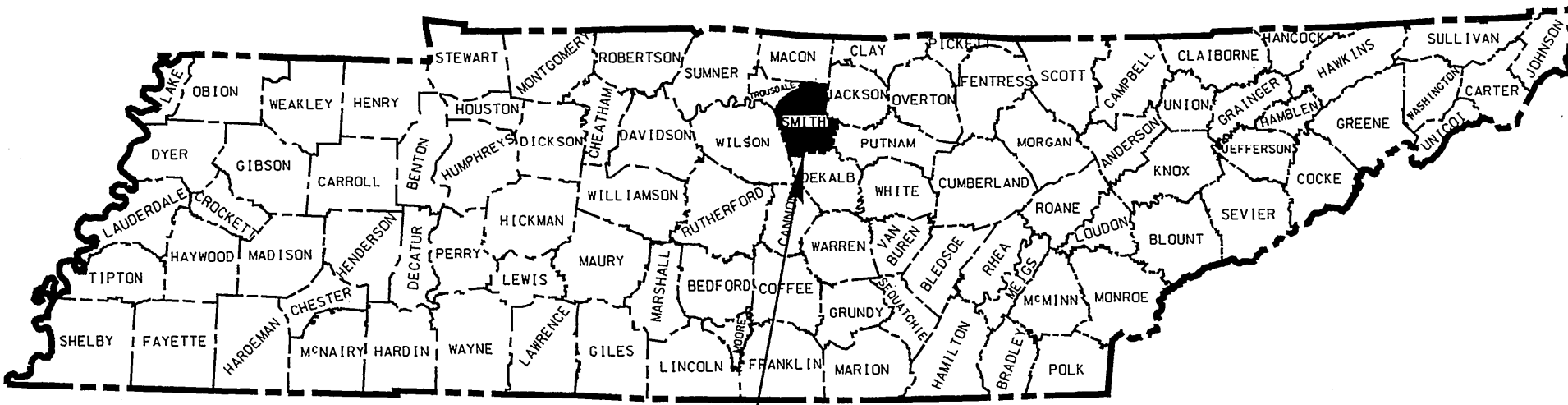
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

SMITH COUNTY
I-40 WELCOME CENTER
WASTEWATER TREATMENT PLANT
SUBSURFACE LAND APPLICATION SYSTEM

INTERSTATE HIGHWAY NO. I-40 F.A.H.S. NO. I-40

TENN.	YEAR	SHEET NO.
	2006	1
FED. AID PROJ. NO.		
STATE PROJ. NO.		80001-4181-04

REV. 8-17-06: REVISED PROJECT
NUMBER TO 80001-4181-04



PROJECT NO. 80001-4181-04

STANDARD ROADWAY DRAWINGS

DRAWING NO.	CURRENT REVISION DATE	DESCRIPTION
-------------	--------------------------	-------------

ROADWAY DESIGN STANDARDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-08-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	04-15-04	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RD-L-6	04-15-04	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL

EROSION CONTROL AND LANDSCAPING

EC-STR-1	03-15-04	TEMPORARY DEWATERING STRUCTURE, PAY ITEMS & GENERAL NOTES
EC-STR-3B	12-18-03	TEMPORARY SILT FENCE
EC-STR-5	10-26-03	STRAW OR HAY BALE OR FABRIC TEMPORARY EROSION CHECKS

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES
CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW
THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE
TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL
SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN
THE PROPOSAL CONTRACT

TDOT C.E. MANAGER 2 CARL COBBLE

DESIGNED BY BARGE, WAGGONER, SUMNER & CANNON, INC.

GEORGE GARDEN

STEVEN EDWARDS

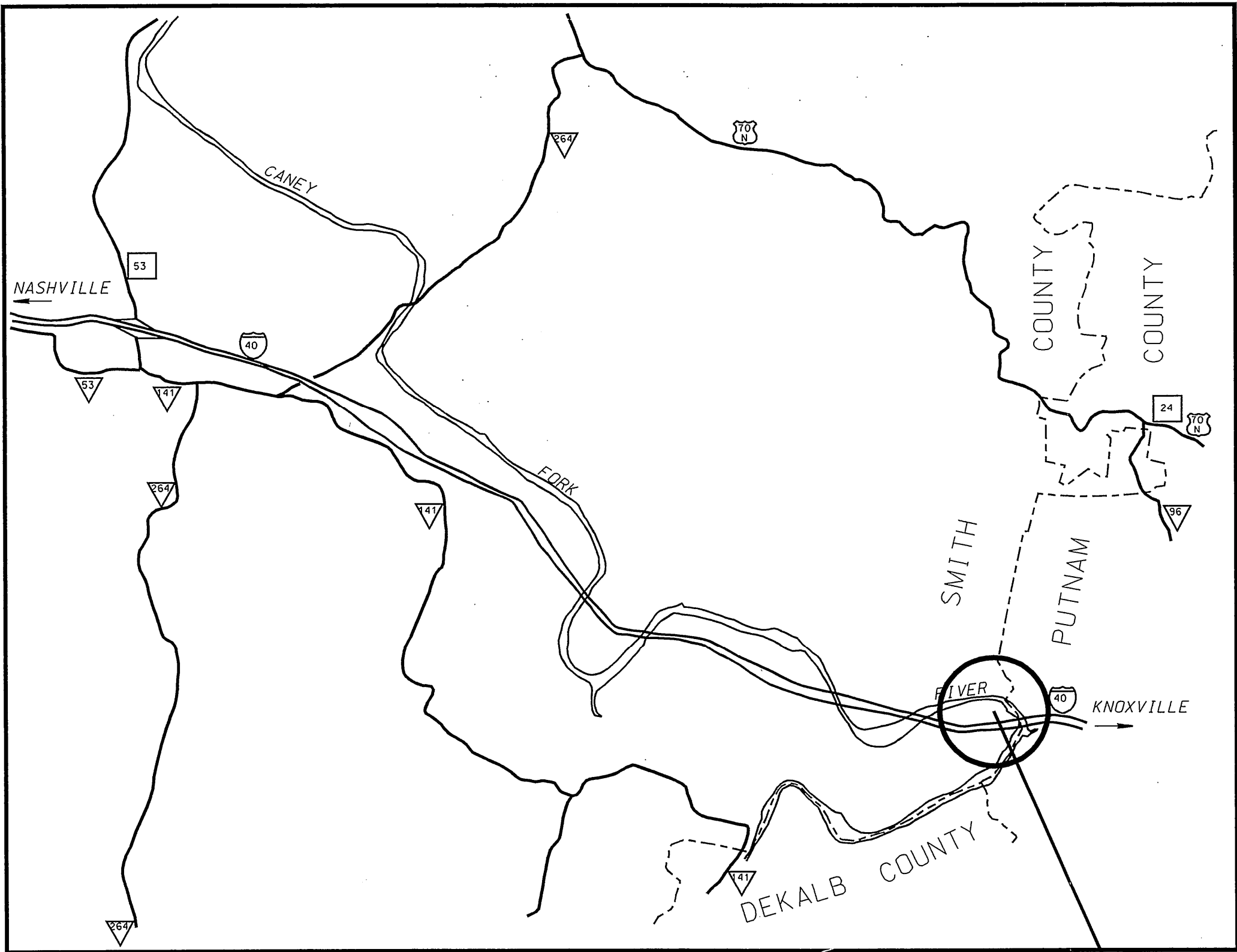
SEAN ASHBURN

ROBERT M. WILLIAMS

DESIGNER JOHN C. FORBES

CHECKED BY CULLEN CAVIN

P.E. NO. 80001-4181-04



N

SCALE: 1" = 1 MILE

NO EQUATIONS
NO EXCLUSIONS

APPROVED:

CHIEF ENGINEER

DATE:

APPROVED:

COMMISSIONER

PROJECT NO. 80001-4181-04
I-40 WELCOME CENTER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

PROJECT LENGTH 0.000 MILES