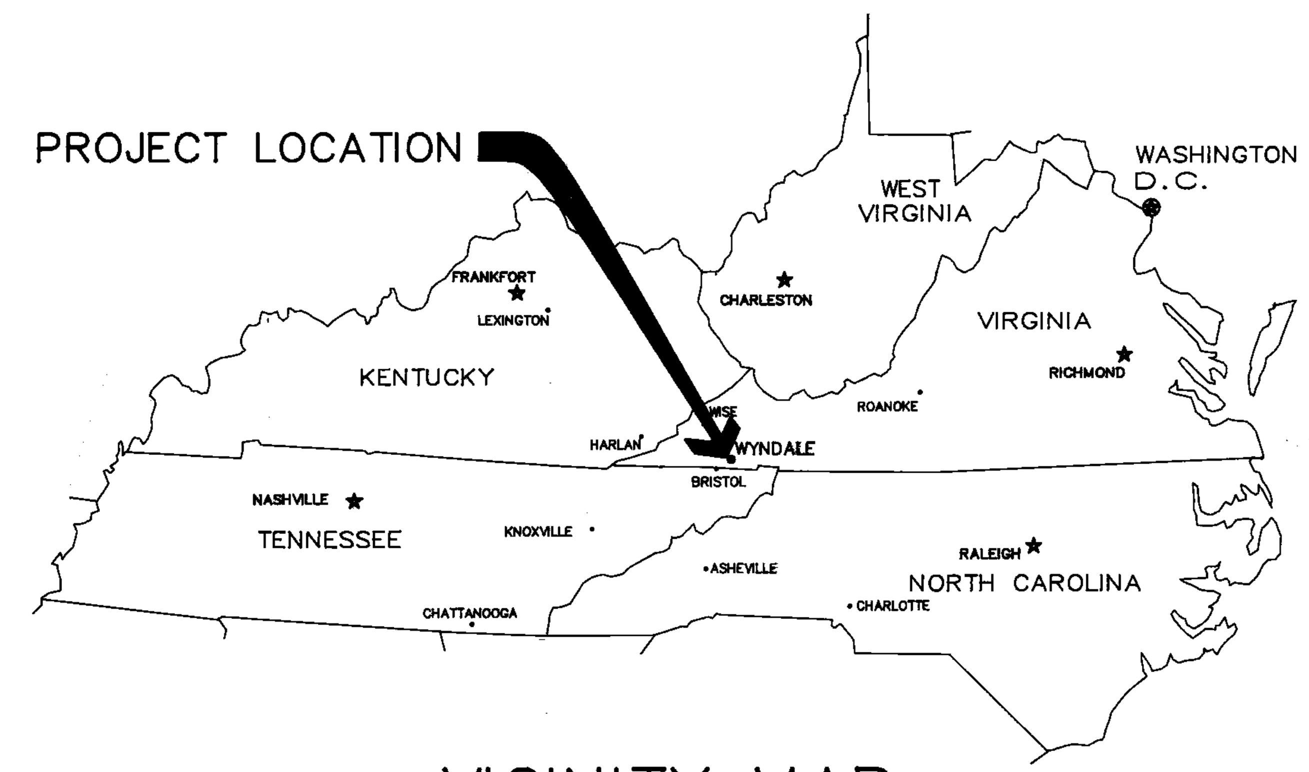
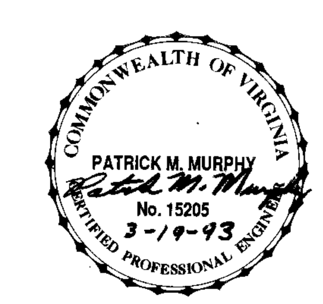
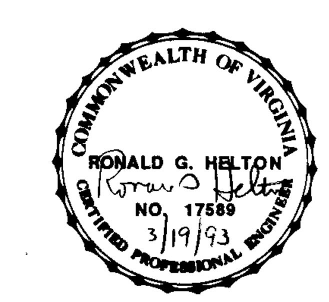


VICINITY MAP
NOT TO SCALE

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

PREPARED FOR
WASHINGTON COUNTY BOARD OF SUPERVISORS
ABINGDON, VIRGINIA



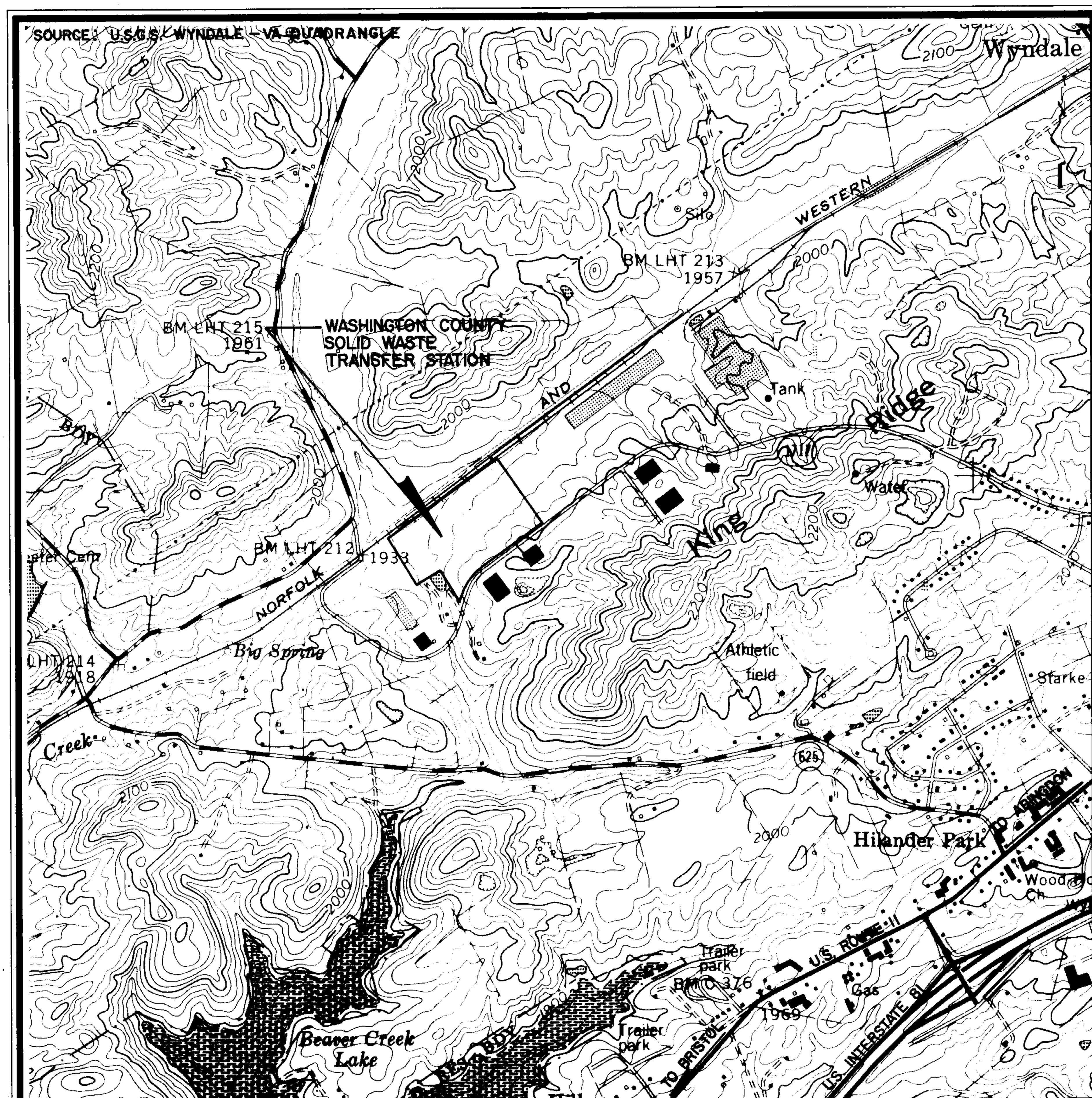


WASHINGTON COUNTY
BOARD OF SUPERVISORS
205 ACADEMY DRIVE
ABINGDON, VA 24210
(703) 676 - 6202

PREPARED BY:
THOMPSON & LITTON, INC.
ENGINEERS - ARCHITECTS - PLANNERS
WISE, VIRGINIA

PROJECT NO. 5127-00

MARCH, 1993



LOCATION MAP

SCALE: 1" = 1000'

LEGEND

EXISTING	NEW	DESCRIPTION
1100	1100	CONTOUR
	X X X	FENCE
		CULVERT
		GRAVEL AREA
		PAVED ROAD
		CONCRETE AREA
		BENCH MARK OR TEMPORARY BENCH MARK
S		SEWER LINE
		MANHOLE
W		WATER LINE
		WATER METER
		GATE VALVE
		FIRE HYDRANT
E		ELECTRICAL
		POWER POLE
		PROPERTY BOUNDARY
		STREAM
		RAILROAD
		TEMPORARY SILT FENCE
		SETTLEMENT MONITORING DEVICE

SHEET INDEX

GENERAL NOTES

1. FIELD SURVEY TO PROVIDE TOPOGRAPHIC MAPPING AND BASELINE INFORMATION WAS PERFORMED BY ADDISON SURVEYORS, ABINGDON, VIRGINIA IN DECEMBER, 1992.
2. VERTICAL CONTROL IS BASED ON T.V.A. BENCHMARK "LHT 212 1937", A STANDARD T.V.A. BRONZE TABLET SET IN A CONCRETE MONUMENT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LAYOUT AND INSTALLATION OF POWER LINES, TELEPHONE LINES AND ASSOCIATED FACILITIES WITH APPLICABLE UTILITY COMPANIES AND THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THESE INSTALLATIONS.
4. MINIMUM PIPE COVER FOR WATER LINES SHALL BE 3'–0" UNLESS OTHERWISE INDICATED.
5. SEWER SLOPES SHOWN ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF MANHOLES.
6. MANHOLE FRAMES AND COVERS SHALL BE OF THE WATERPROOF TYPE WHERE INDICATED.
7. THE TOP OF MANHOLE COVERS SHALL TERMINATE AT GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. MINIMUM PIPE COVER FOR GRAVITY SEWER LINES SHALL BE 2'–6" UNLESS OTHERWISE INDICATED.
9. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. ANY DAMAGE DONE TO EXISTING UNDERGROUND UTILITIES AND FACILITIES SHALL BE REPAIRED WITH THE UTILITIES AND FACILITIES RESTORED TO AT LEAST THEIR ORIGINAL CONDITION.
10. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD AND BRIDGE SPECIFICATIONS AND ROAD AND BRIDGE STANDARDS, AS APPLICABLE.
11. EROSION AND SEDIMENT CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS AND WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK" BY THE VIRGINIA SOIL AND WATER CONSERVATION COMMISSION, AS APPLICABLE.
12. ALL UNPAVED AND UNGRAVELED AREAS DISTURBED BY EXCAVATION SHALL BE SEEDED.
13. ALL BORROW AREAS SHALL BE GRADED TO A MINIMUM SLOPE OF 2 PERCENT AND A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3:1) WITH TRANSITION AREAS GRADED TO BLEND WITH ADJACENT SLOPES. ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT.
14. OWNERSHIP OF DOCUMENTS – THIS DOCUMENT, INCLUDING THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF THOMPSON & LITTON, INC. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THOMPSON & LITTON, INC.

COMMONWEALTH OF VIRGINIA
PATRICK M. MURPHY
No. 15205
3-19-93
CERTIFIED PROFESSIONAL ENGINEER

THOMPSON & LITTON, INC.
ENGINEERS • ARCHITECTS • PLANNERS

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

SHEET INDEX, LOCATION MAP, GENERAL NOTES & LEGEND

No.	Date	Revision

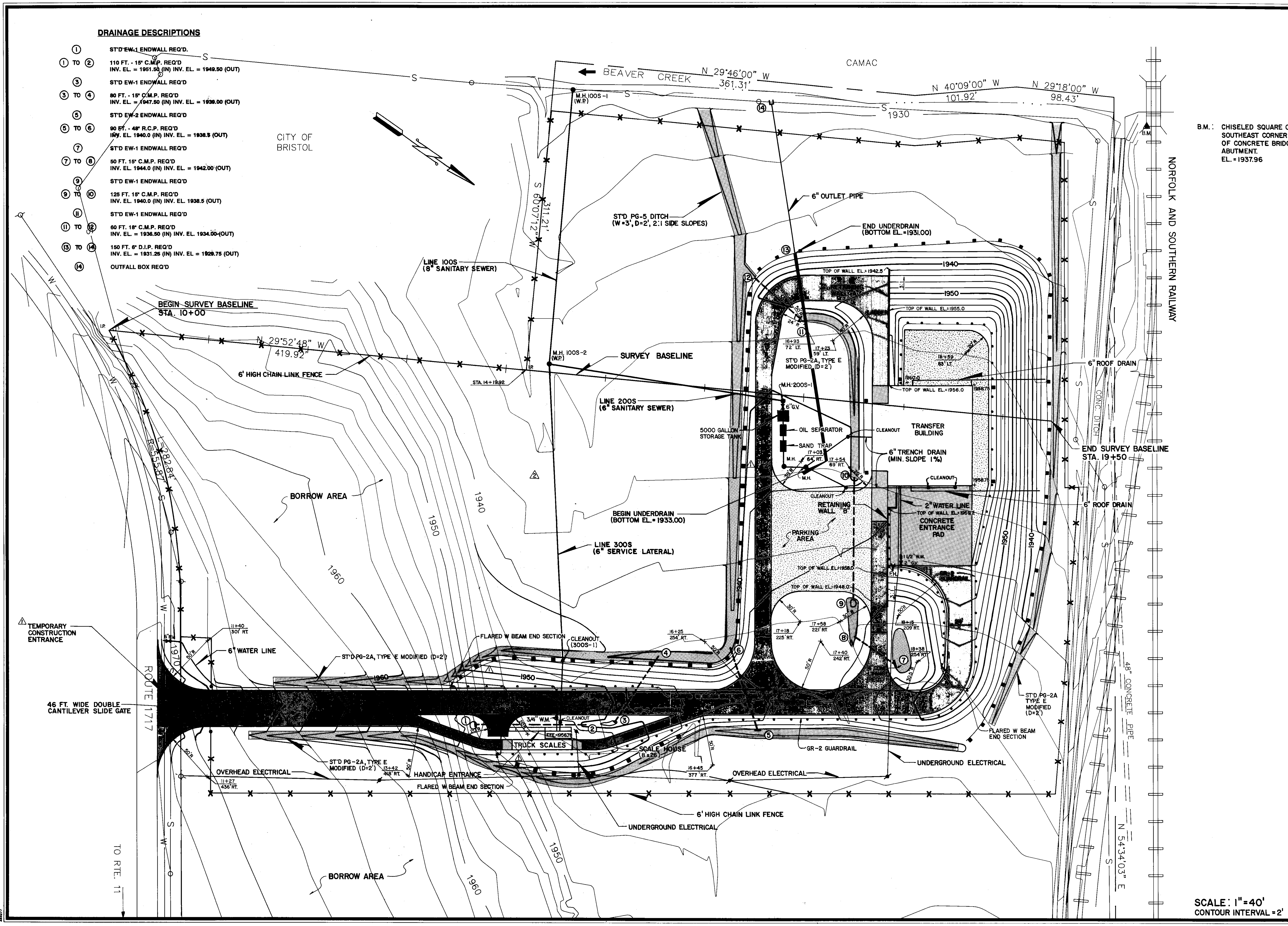
Designed A.D.W.
Drawn E.S.B.
Checked P.M.M.
Date MARCH 1993
File No.

Project No. 5127-00

Sheet No. 2

DRAINAGE DESCRIPTIONS

1	ST'D EW-1 ENDWALL REQ'D.
1 TO 2	110 FT. - 15" C.M.P. REQ'D INV. EL. = 1951.50 (IN) INV. EL. = 1949.50 (OUT)
3	ST'D EW-1 ENDWALL REQ'D
3 TO 4	80 FT. - 15" C.M.P. REQ'D INV. EL. = 1947.50 (IN) INV. EL. = 1939.00 (OUT)
5	ST'D EW-2 ENDWALL REQ'D
5 TO 6	90 FT. - 48" R.C.P. REQ'D INV. EL. 1940.0 (IN) INV. EL. = 1938.5 (OUT)
7	ST'D EW-1 ENDWALL REQ'D
7 TO 8	50 FT. 15" C.M.P. REQ'D INV. EL. 1944.0 (IN) INV. EL. = 1942.00 (OUT)
9	ST'D EW-1 ENDWALL REQ'D
9 TO 10	125 FT. 15" C.M.P. REQ'D INV. EL. 1940.0 (IN) INV. EL. 1938.5 (OUT)
11	ST'D EW-1 ENDWALL REQ'D
11 TO 12	60 FT. 18" C.M.P. REQ'D INV. EL. = 1936.50 (IN) INV. EL. 1934.00 (OUT)
13 TO 14	150 FT. 6" D.I.P. REQ'D INV. EL. = 1931.25 (IN) INV. EL = 1929.75 (OUT)
14	OUTFALL BOX REQ'D



B.M.: CHISELED SQUARE ON SOUTHEAST CORNER OF CONCRETE BRIDGE ABUTMENT. EL.=1937.96

SCALE: 1"=40'
CONTOUR INTERVAL = 2'

COMMONWEALTH OF VIRGINIA
PATRICK M. MURPHY
No. 15205
3-19-93
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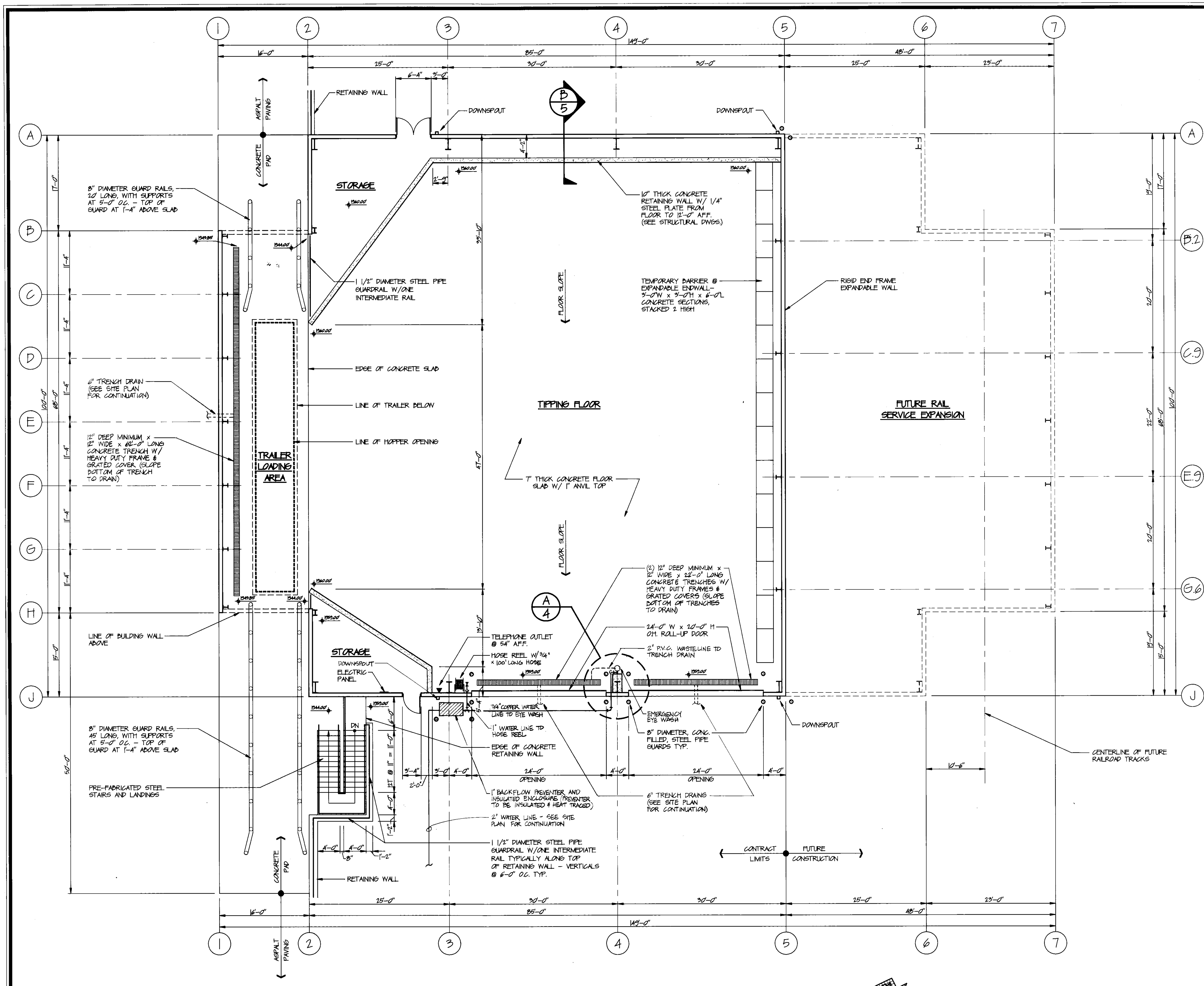
THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

SITE PLAN

No.	Date	Revision
1	3/25/93	ADDENDUM #1 DATED 3/26/93
2	5/12/93	E.S.I. #1

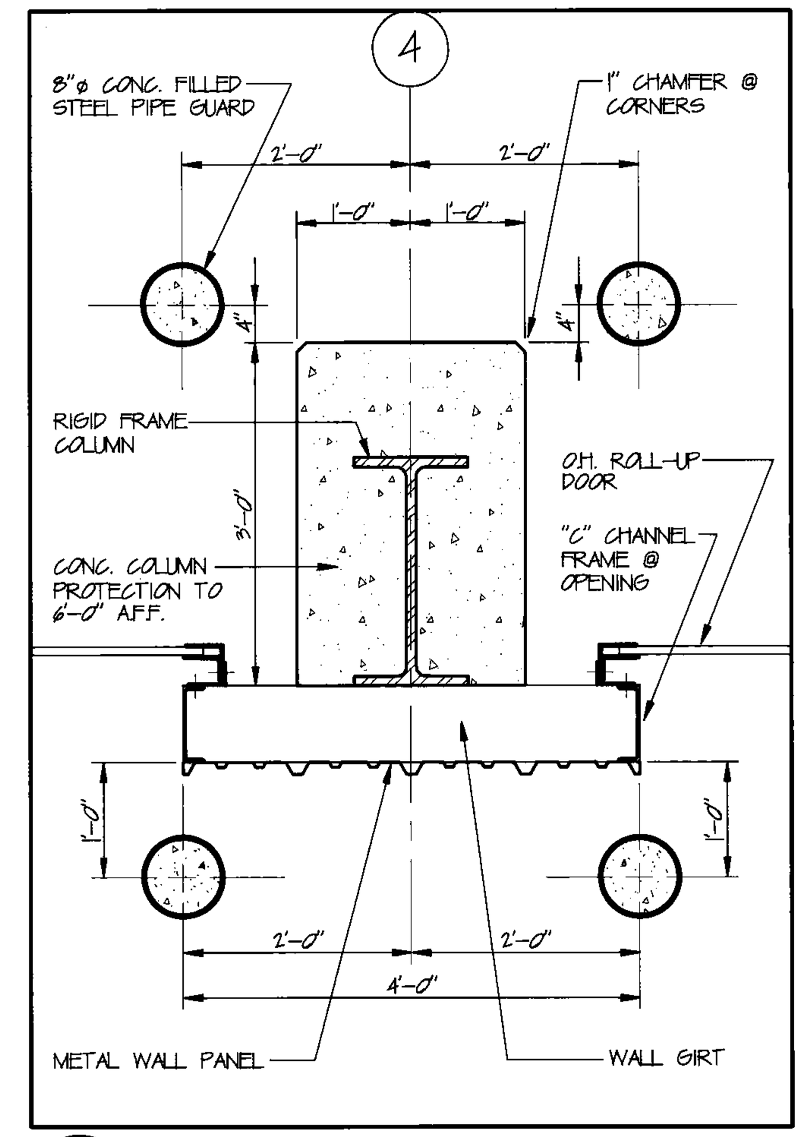
Designed G.D.W.
Drawn gas
Checked P.M.M.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 3



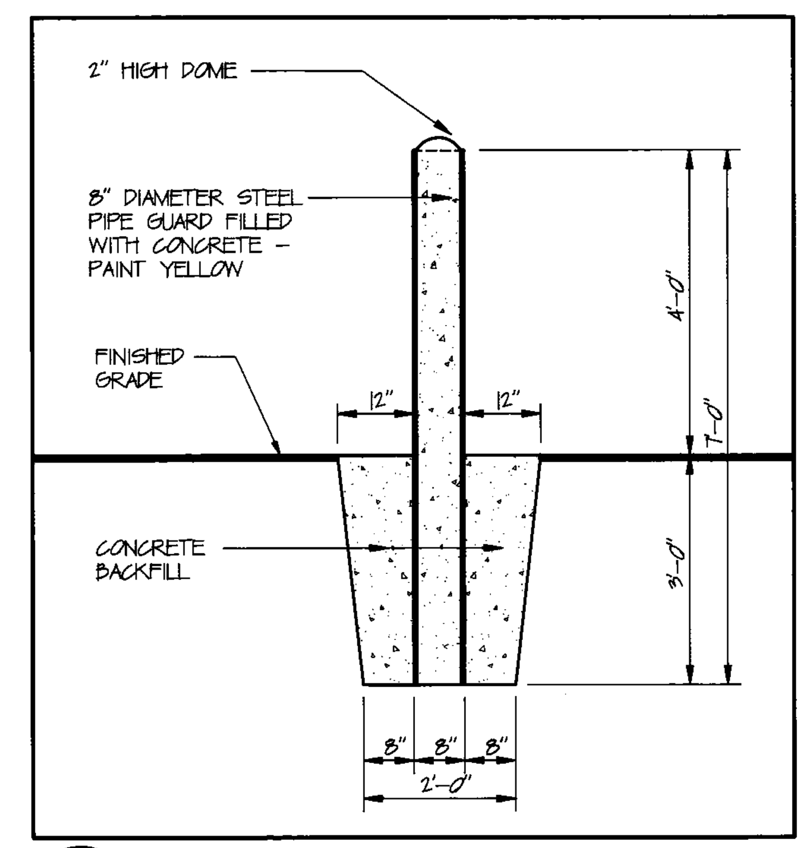
FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. USE GROUP: F-1 (FACTORY & INDUSTRIAL)
2. CONSTRUCTION TYPE: 2-C (UNPROTECTED)
3. BUILDING AREAS:
   - TIPPING FLOOR = 8,500 SQ. FT.
   - TRAILER LOADING = 1,088 SQ. FT.
   - TOTAL BUILDING = 9,588 SQ. FT.
4. ALLOWABLE AREA PER TABLE 501 = 9,600 SQ. FT.
5. ALLOWABLE BUILDING HEIGHT = 30'-0"
6. ACTUAL BUILDING HEIGHT = ± 28'-2"
7. MAXIMUM TRAVEL DISTANCE TO EXIT EQUALS 200'-0".



A/4 COLUMN PROTECTION DETAIL
SCALE: 3/4" = 1'-0"



B/4 SECTION - PIPE GUARD
SCALE: 1/2" = 1'-0"

COMMONWEALTH OF VIRGINIA
TIMOTHY A. CARL
No. 007936
3/15/93
ARCHITECT

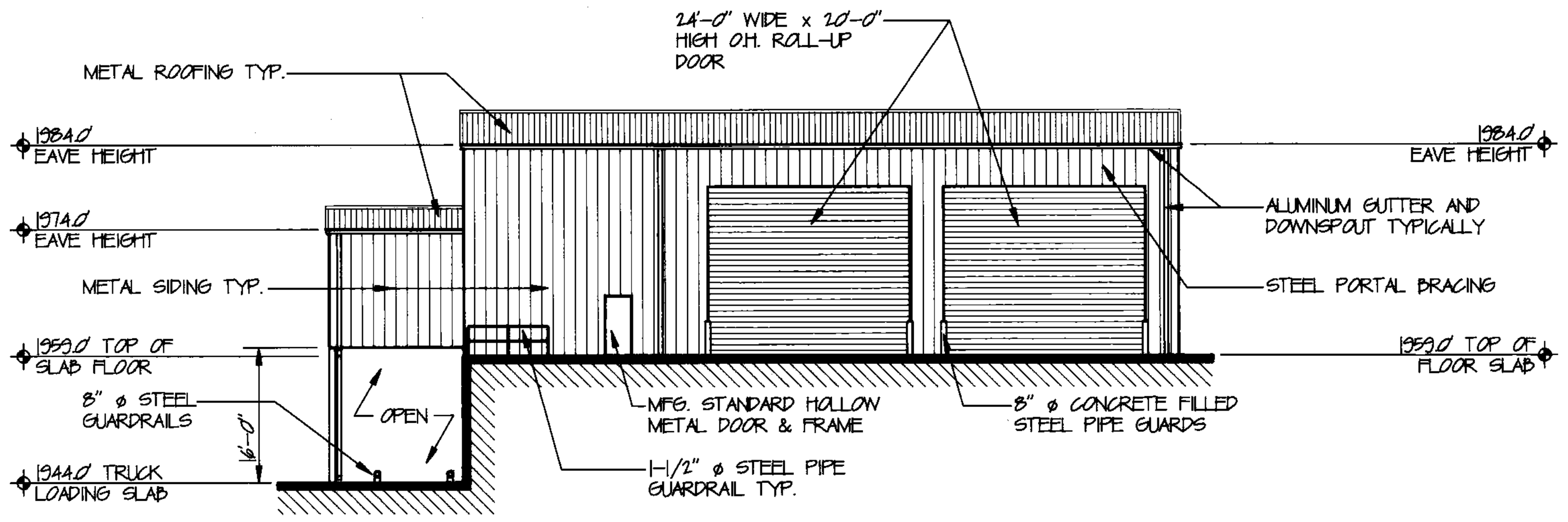
THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

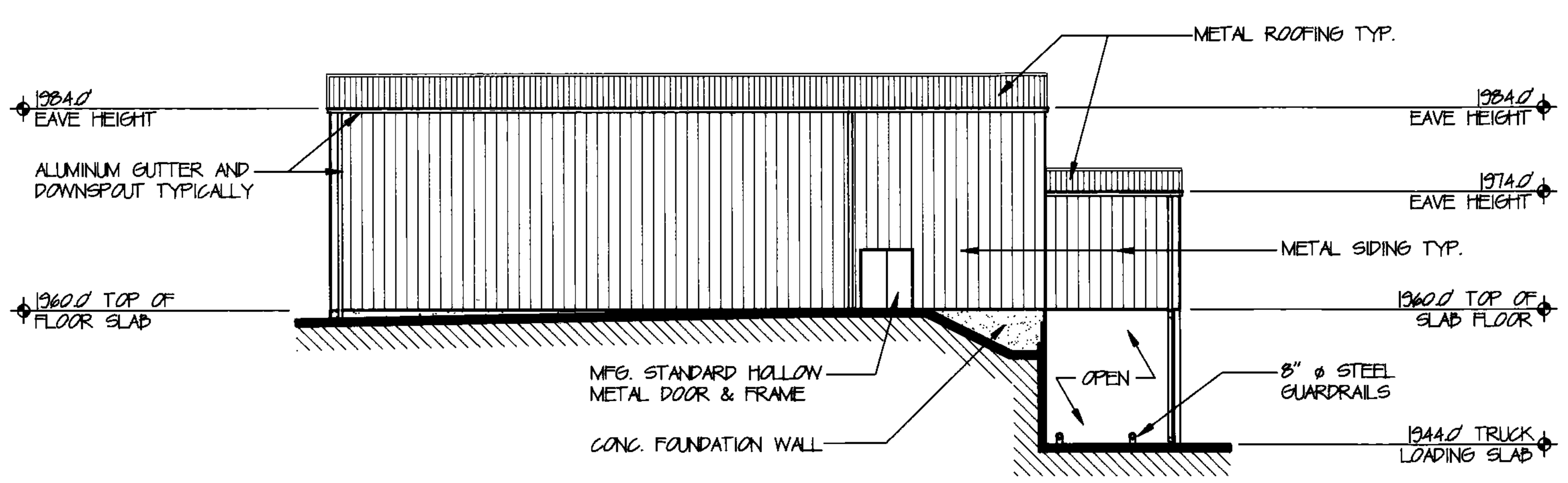
TRANSFER BUILDING - FLOOR PLAN

No.	Date	Revision

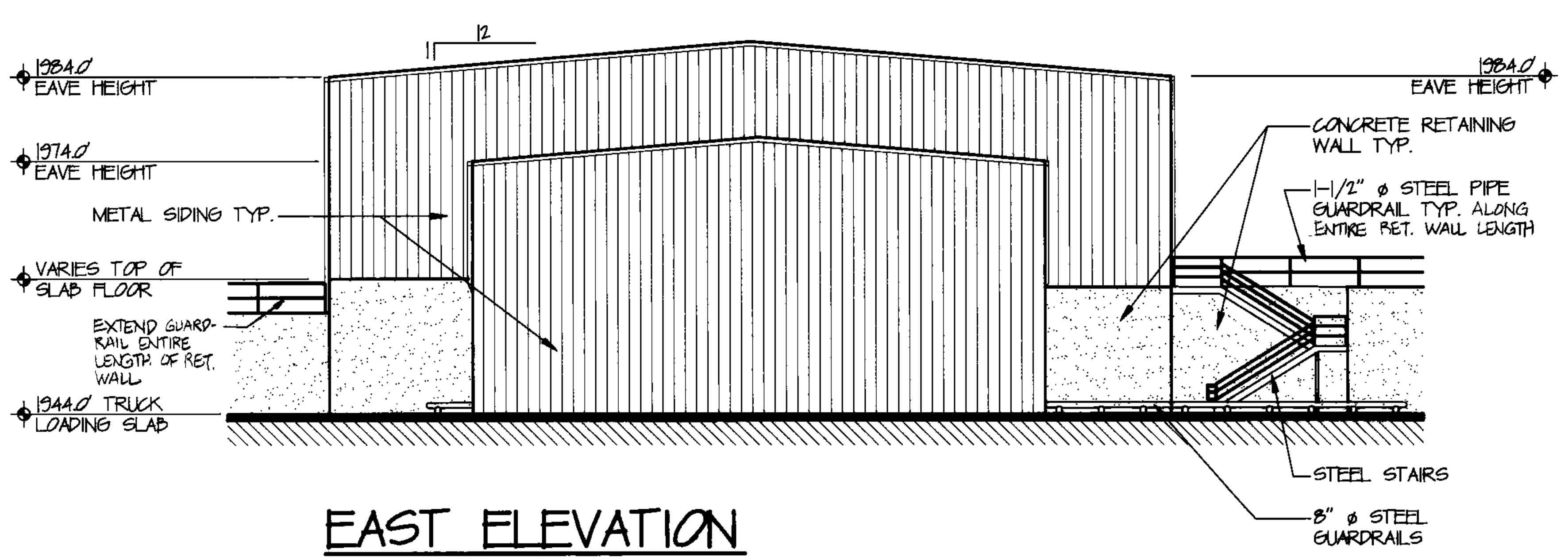
Designed TAC
Drawn GTB
Checked
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No.
4



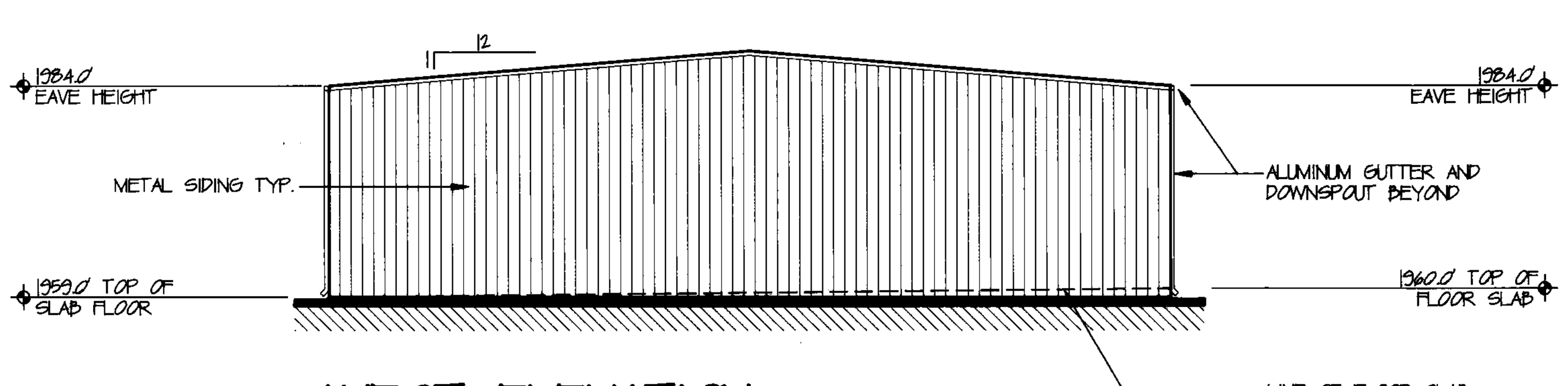
NORTH ELEVATION
SCALE: 1/16" = 1'-0"



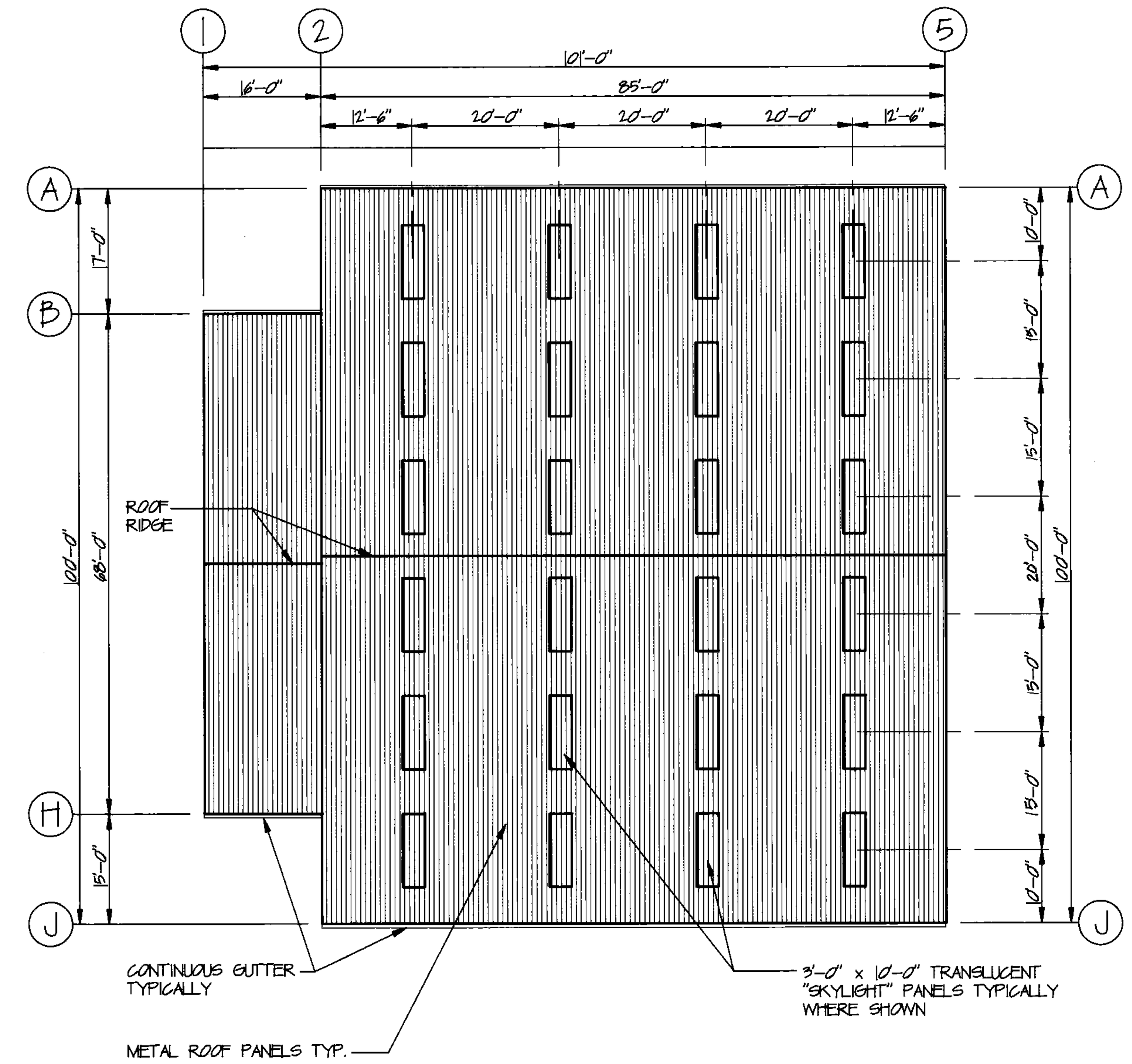
SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



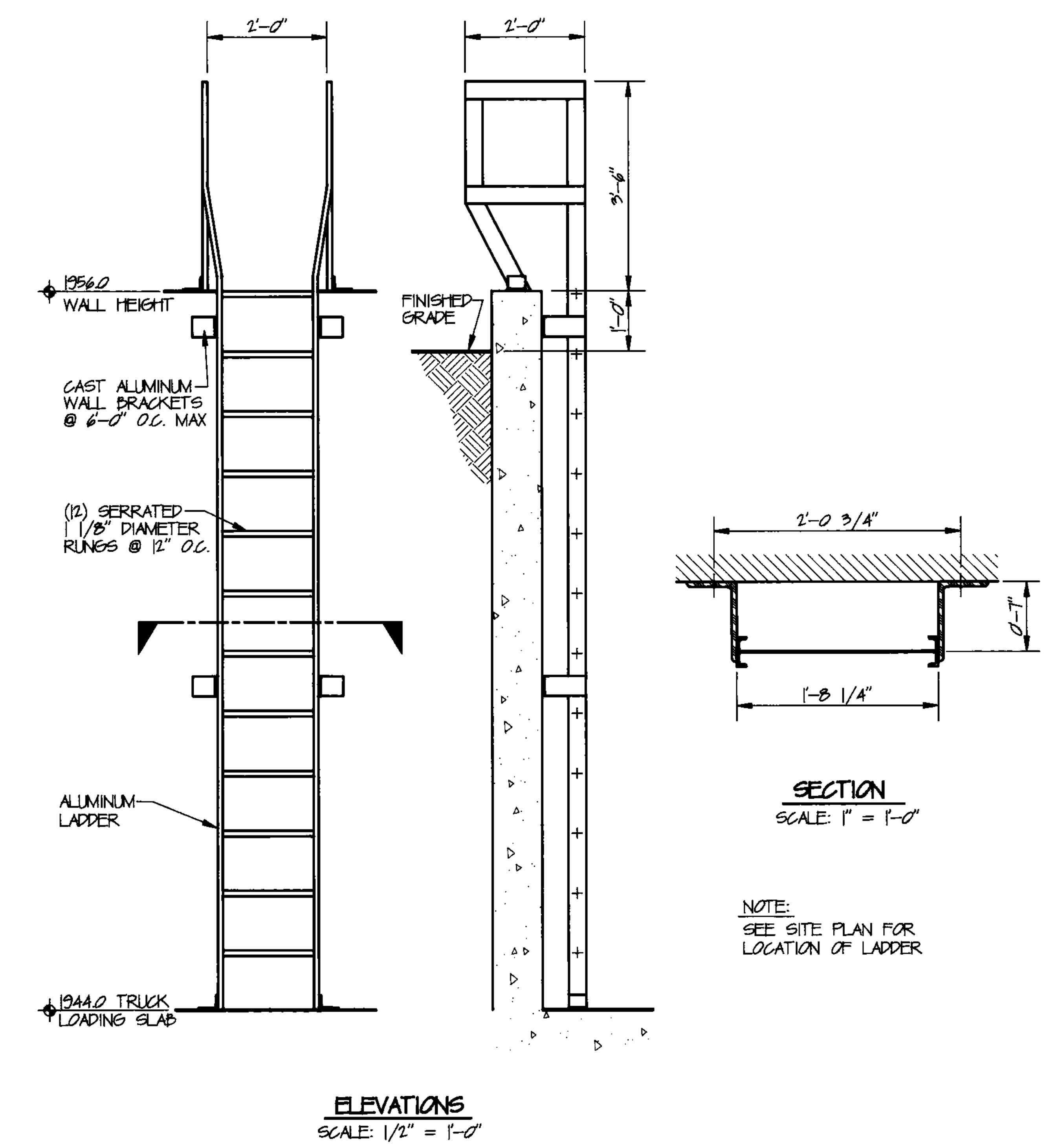
EAST ELEVATION
SCALE: 1/16" = 1'-0"



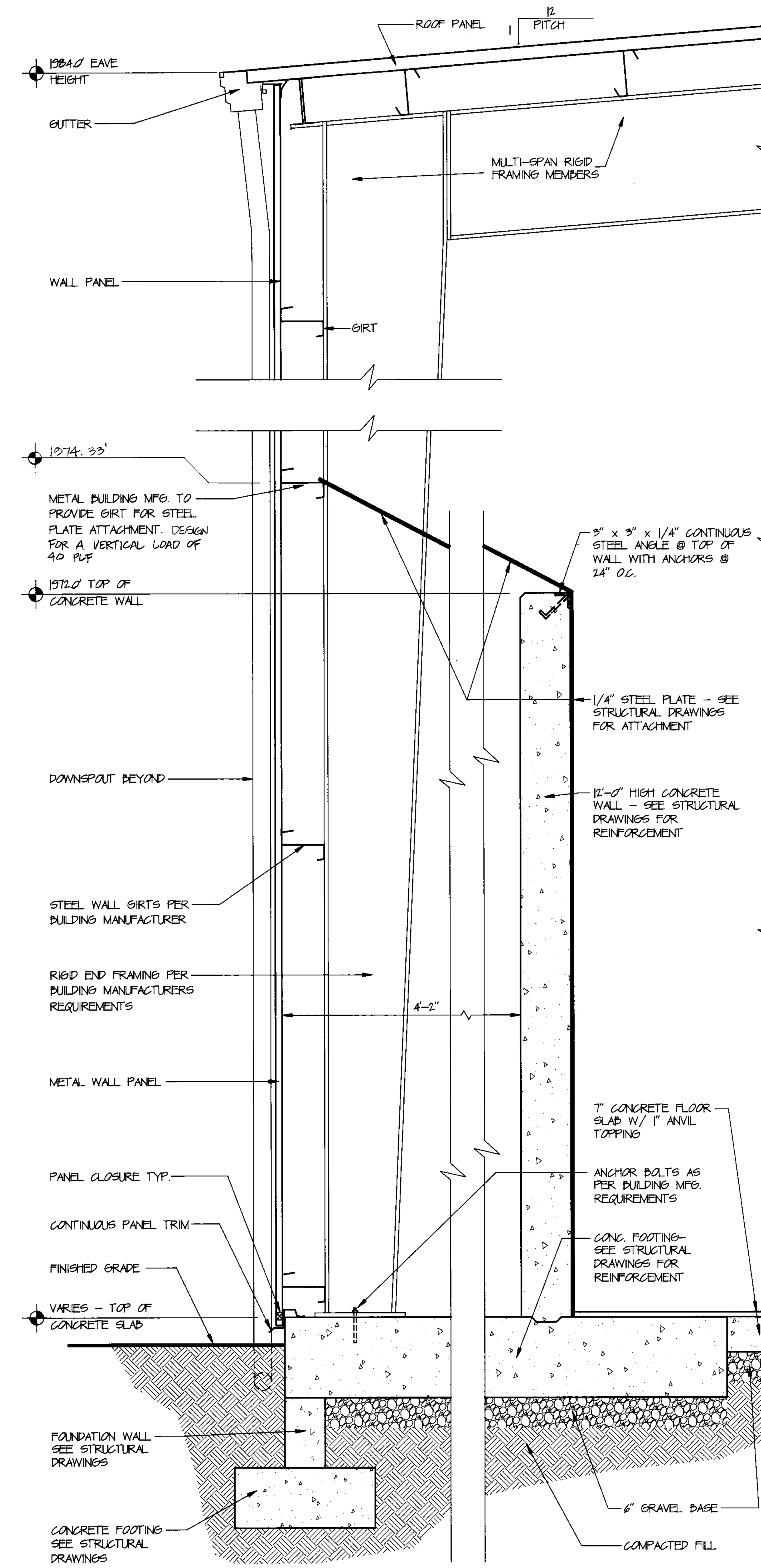
WEST ELEVATION
SCALE: 1/16" = 1'-0"



ROOF PLAN
SCALE: 1/16" = 1'-0"



A/5 LADDER DETAILS
SCALE: 3/4" = 1'-0"



B/5 WALL SECTION
SCALE: 3/4" = 1'-0"

COMMONWEALTH OF VIRGINIA
TIMOTHY A. CARL
No. 007936
3/15/93
ARCHITECT

THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

TRANSFER BUILDING - ELEVATIONS & DETAILS

No	Date	Revision
1	3/26/93	PER ADDENDUM #1

Designed TAC
Drawn GTD
Checked
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 5

GENERAL STRUCTURAL NOTES

SHEET 6 THRU 9 ARE STRUCTURAL DESIGN DRAWINGS ONLY (REQUIRED FOR THE FOUNDATION PLAN AND DETAILS). ANY REFERENCE TO ARCHITECTURAL MATERIALS, SYSTEMS OR CONCEPTS IS FOR CLARITY ONLY.

ALL FILL AND UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED AND FOOTINGS SHALL REST ON UNDISTURBED SOIL OR ENGINEERED FILL.

PROVIDE 3/4" CHAMFER ON EXPOSED CONCRETE EDGES.

ALL EXTERIOR CONCRETE EXPOSED TO WEATHER AND CONCRETE FLOOR SLABS SHALL BE AIR-ENTRAINED. ALL CONCRETE IN THE PROJECT SHALL BE 4000 PSI (CLASS A), UNLESS OTHERWISE NOTED. ALL CONCRETE IN FOOTINGS SHALL BE 3000 PSI (CLASS B). ALL MATERIALS AND PROCESSES TO THIS END SHALL CONFORM IN GENERAL TO A.C.I. RECOMMENDED PRACTICE FOR THE DESIGN OF CONCRETE MIXES. (ACI-615 LAST REVISED)

FOOTINGS ARE DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF.

DEPRESS ALL FLOOR SLABS AS REQUIRED FOR FLOOR FINISHES. SEE ARCHITECTURAL DRAWINGS.

STEEL REINFORCING SHALL BE BILLET STEEL ASTM A-615, GRADE 60.

MESH SHALL BE WELDED WIRE FABRIC ASTM A-185.

ALL BOLTS SHALL BE 3/4" DIAMETER A-325, UNLESS OTHERWISE SHOWN OR NOTED.

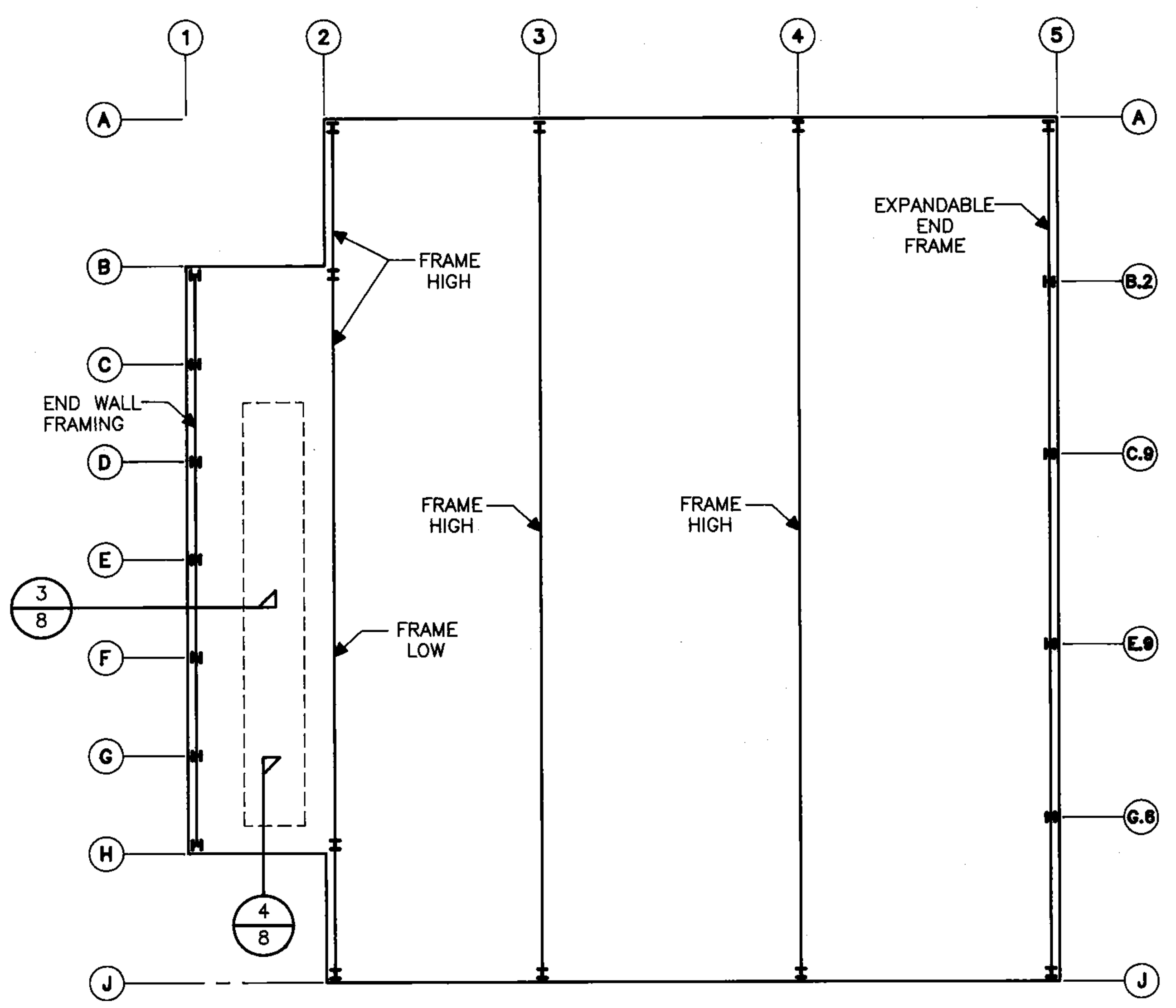
ALL STRUCTURAL STEEL SHALL CONFORM TO REQUIREMENTS OF ASTM A-36. SQUARE STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500, GRADE B. ALL STEEL SHALL RECEIVE ONE COAT OF SHOP PAINT.

GENERAL CONTRACTOR SHALL COORDINATE FOUNDATION DETAILS AND DIMENSIONS WITH REQUIREMENTS OF METAL BUILDING SYSTEM SUPPLIED.

CONTRACTOR TO FURNISH ALL REQUIRED DRAWINGS AND COMPUTATIONS SHOWING ANY CHANGES TO THE BUILDING OR FOUNDATIONS DUE TO THE PRE-ENGINEERED BUILDING PURCHASED. ANY INCREASES IN QUANTITY OF BUILDING MATERIALS SHALL ALSO BE BOURN BY CONTRACTOR. THE DRAWINGS AND COMPUTATIONS SHALL BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA.

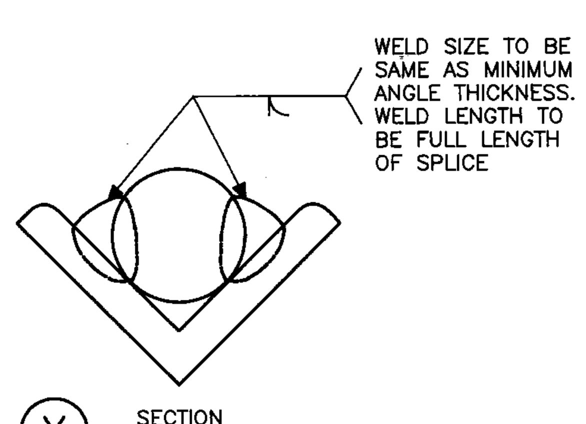
DESIGN LIVE LOADS

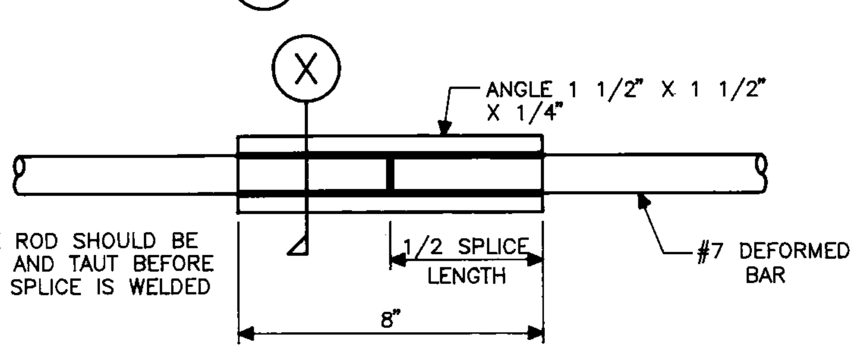
MINIMUM ROOF LIVE LOAD = 30 PSF
WIND VELOCITY = 100 MPH



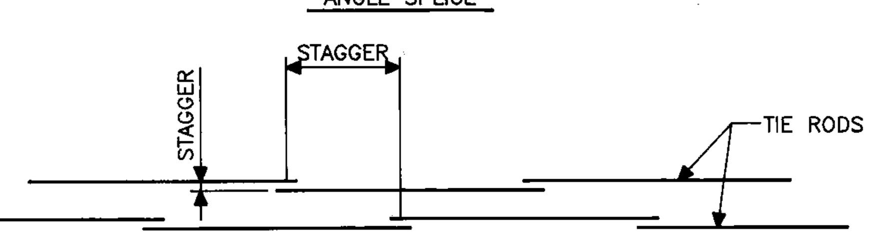
PRE-ENGINEERED FRAMES

NO SCALE





ANGLE SPLICE

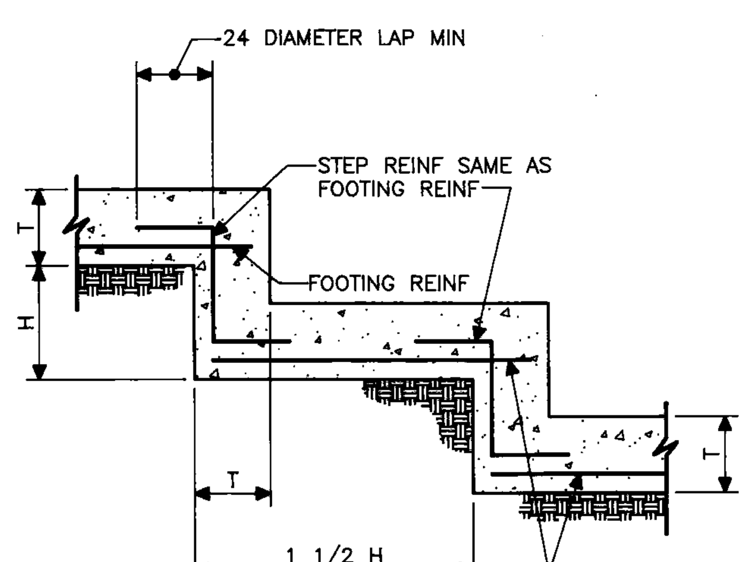


RECOMMENDED SPLICE STAGGERS

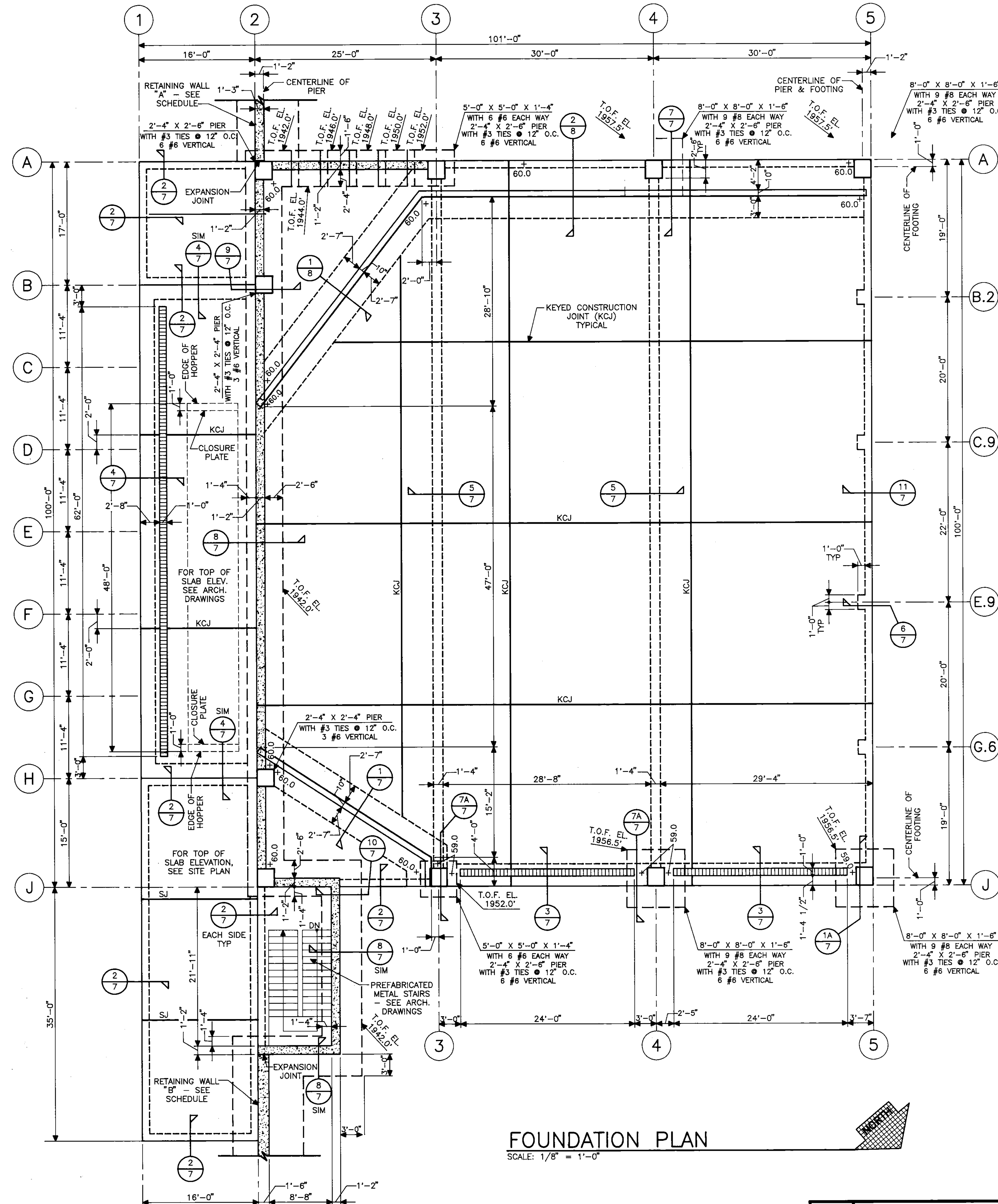
NOTES:

1. ALL DEFORMED BAR WELDING TO CONFORM TO AWS D12.1-61 SPECS.
2. RODS CONTINUOUS ACROSS BLDG. & CONNECTED TO BOTH MAIN RIGID FRAME COLUMNS.

TYPICAL ANGLE SPLICE
TYPICAL DETAIL NO SCALE



TYPICAL CONCRETE STEPPED FOOTING
TYPICAL DETAIL NO SCALE



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

RICHARD L. WILLIAMS
CONSULTING ENGINEERS, INC.
ROANOKE, VIRGINIA
DATE: 3-11-93 COMM. NO. 93-042

COMMONWEALTH OF VIRGINIA
RICHARD L. WILLIAMS
CERTIFICATE No. 3226
PROFESSIONAL ENGINEER

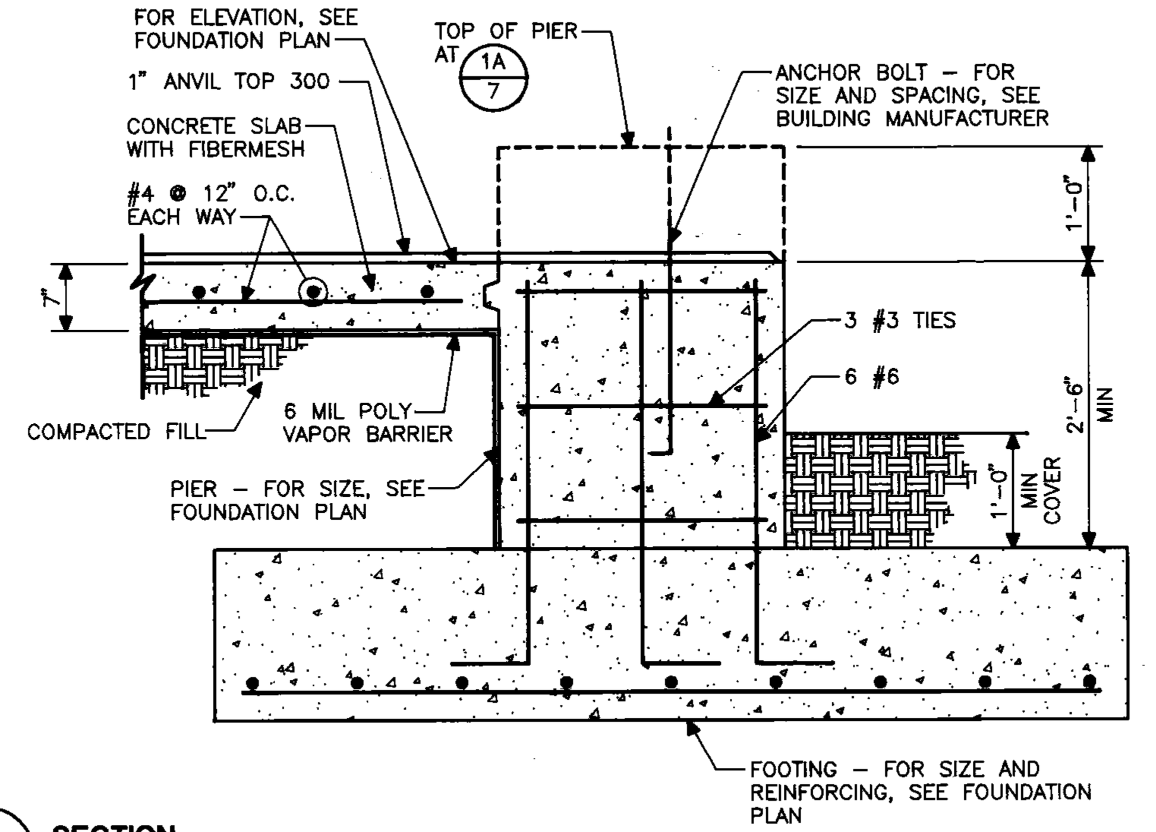
THOMPSON & LITTON, INC
ENGINEERS, ARCHITECTS, PLANNERS • WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

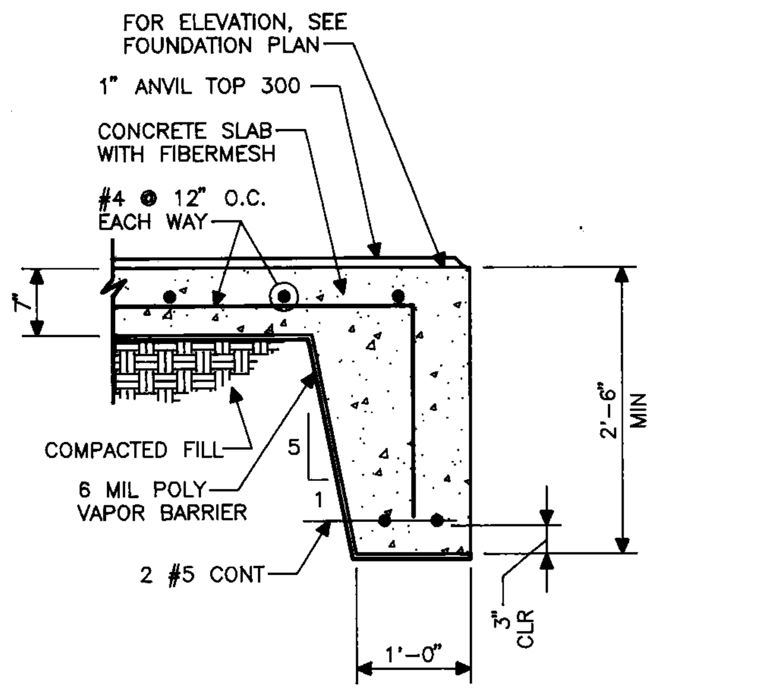
MISCELLANEOUS DETAILS - STRUCTURAL

No	Date	Revision

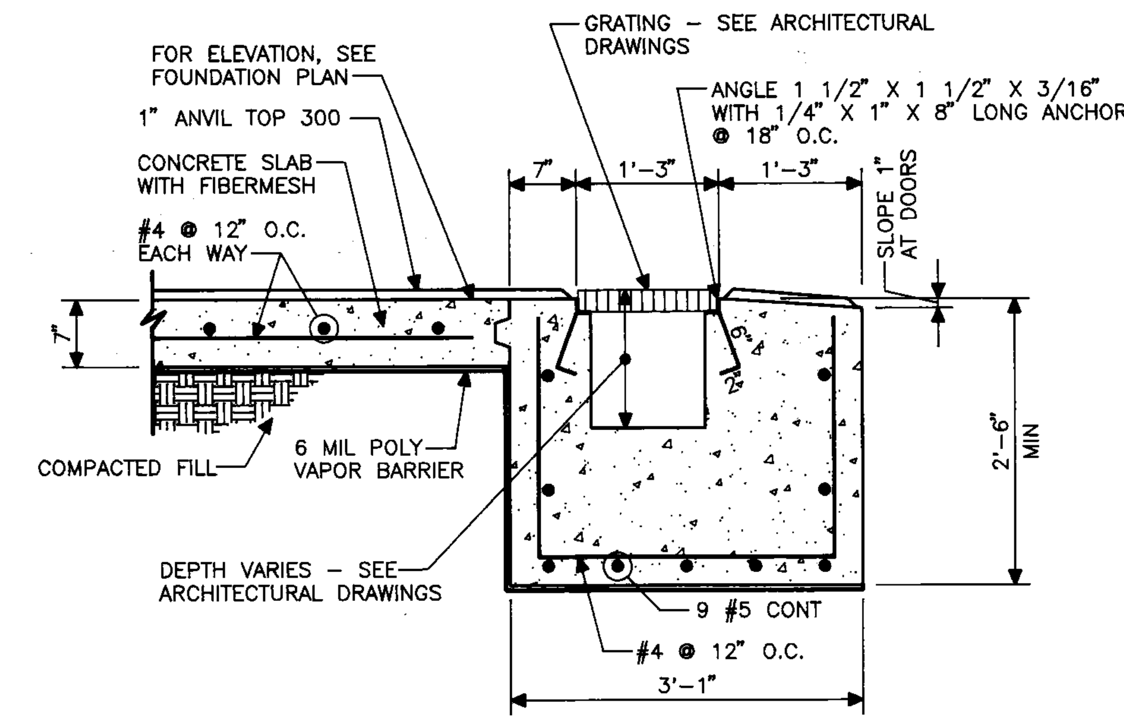
Designed M.C.D.
Drawn M.L.D.
Checked R.L.W.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 6



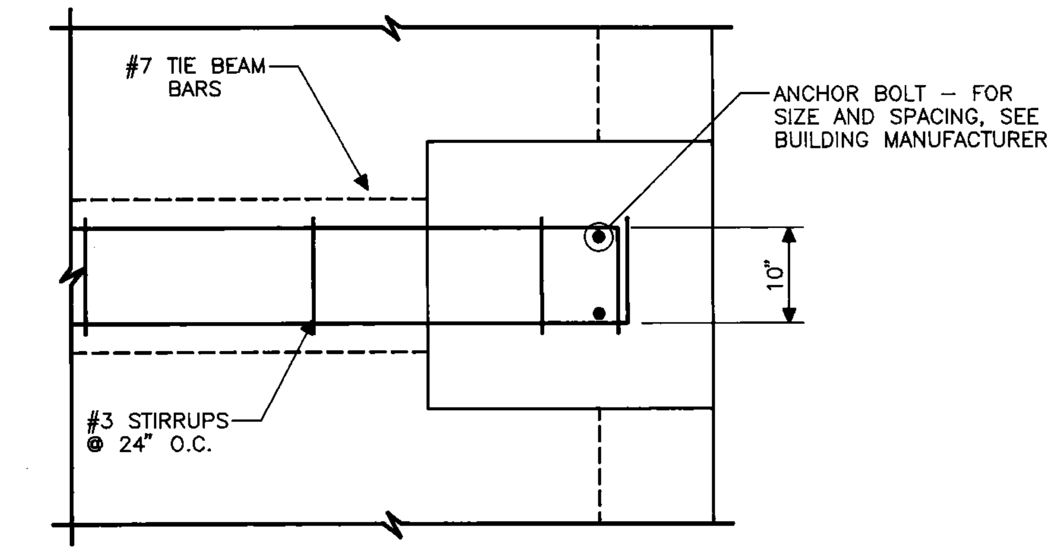
1/7 SECTION SCALE: 3/4" = 1'-0"



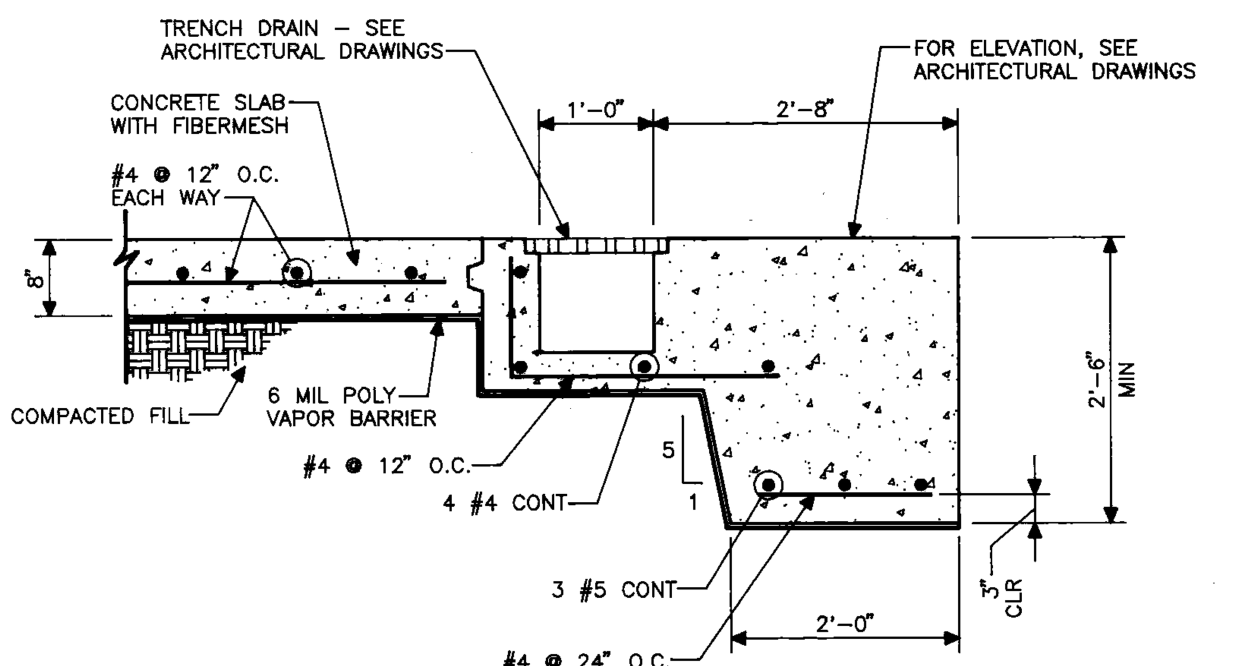
2/7 SECTION SCALE: 3/4" = 1'-0"



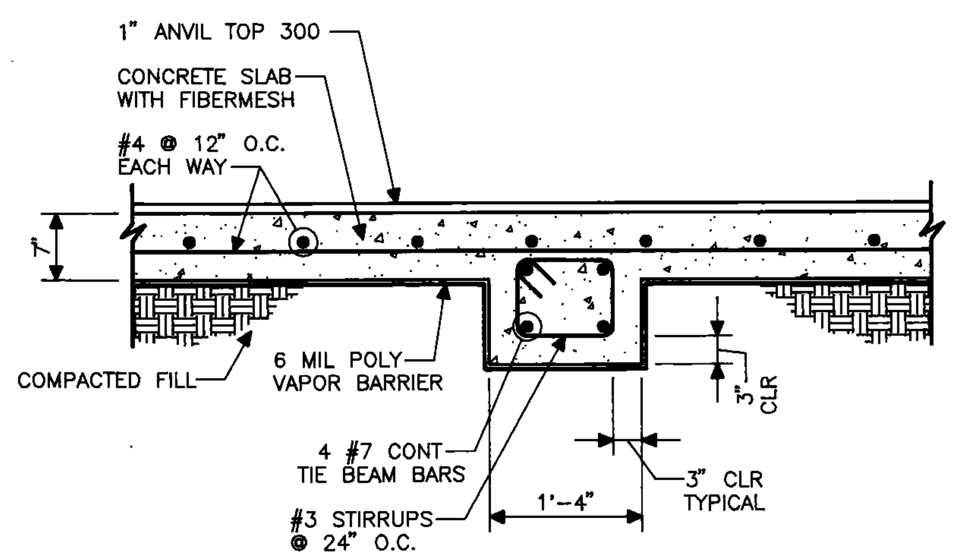
3/7 SECTION SCALE: 3/4" = 1'-0"



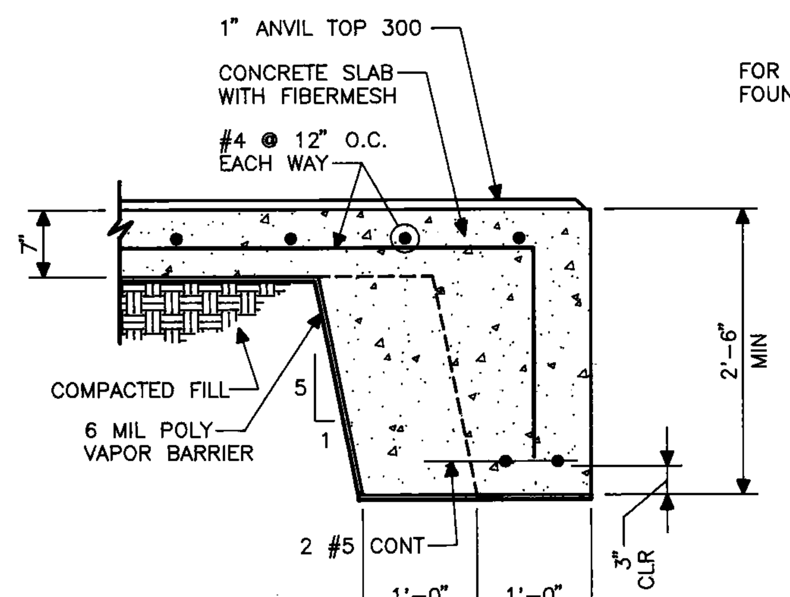
X PLAN VIEW



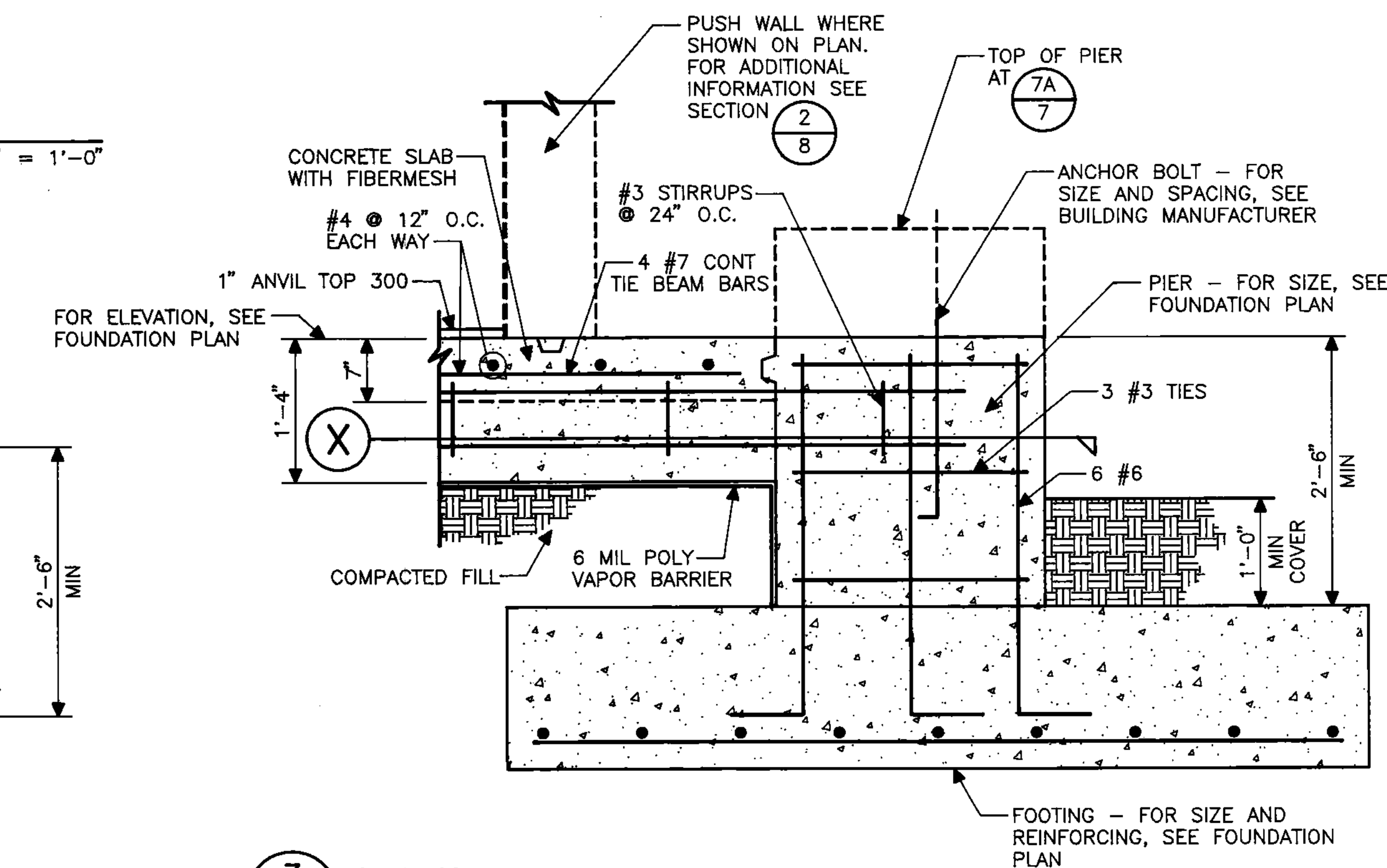
4/7 SECTION SCALE: 3/4" = 1'-0"



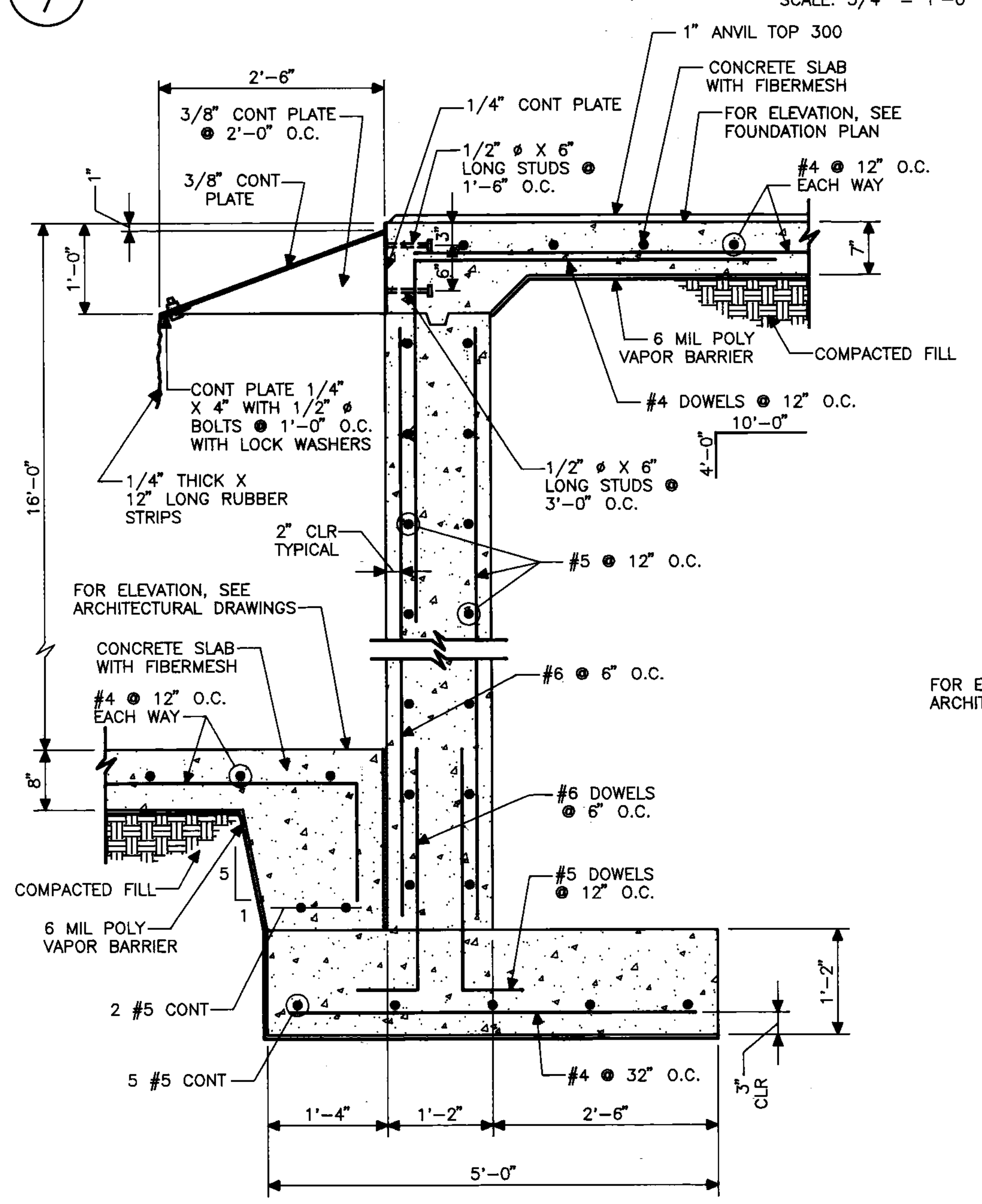
5/7 SECTION SCALE: 3/4" = 1'-0"



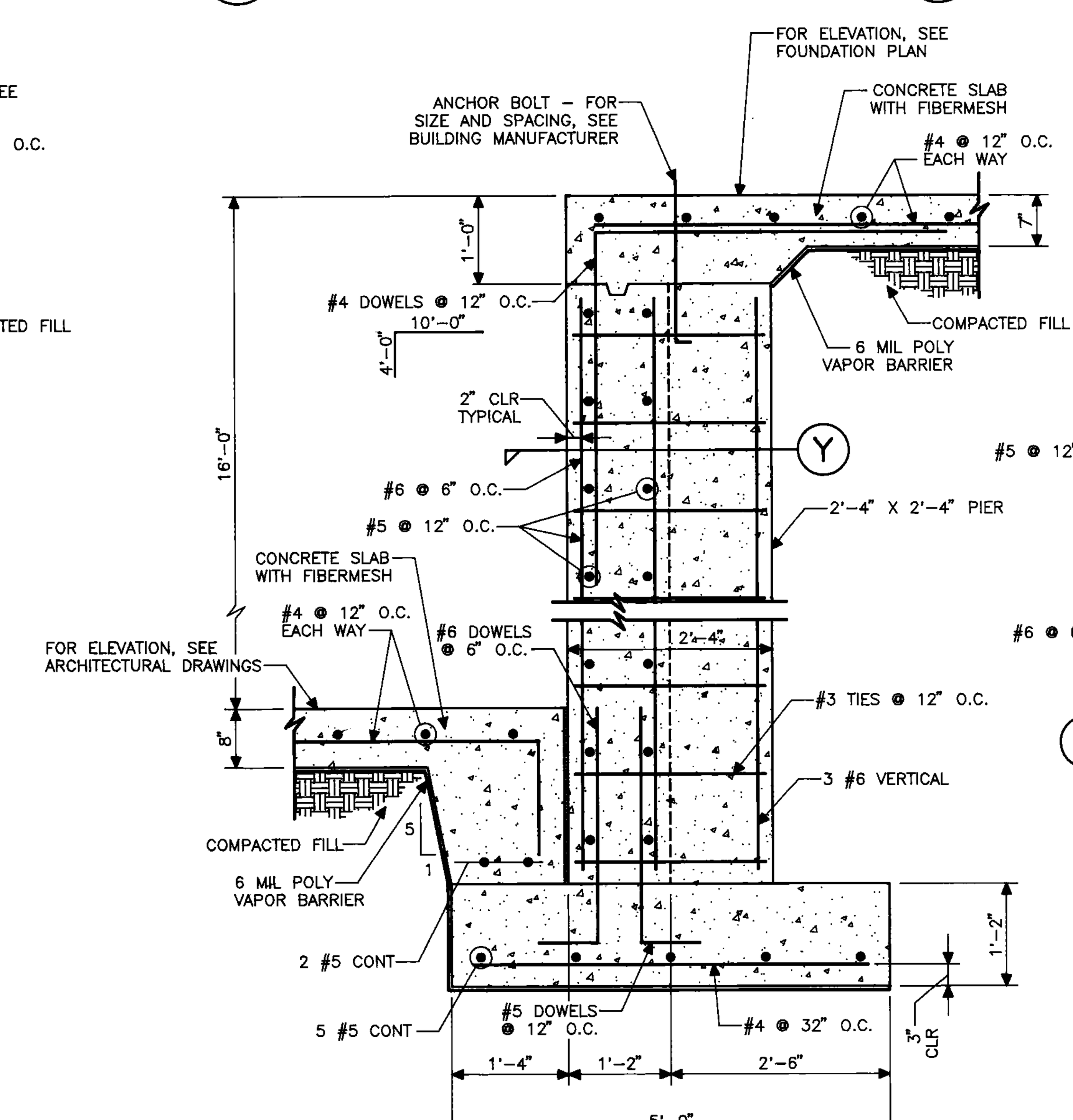
6/7 SECTION SCALE: 3/4" = 1'-0"



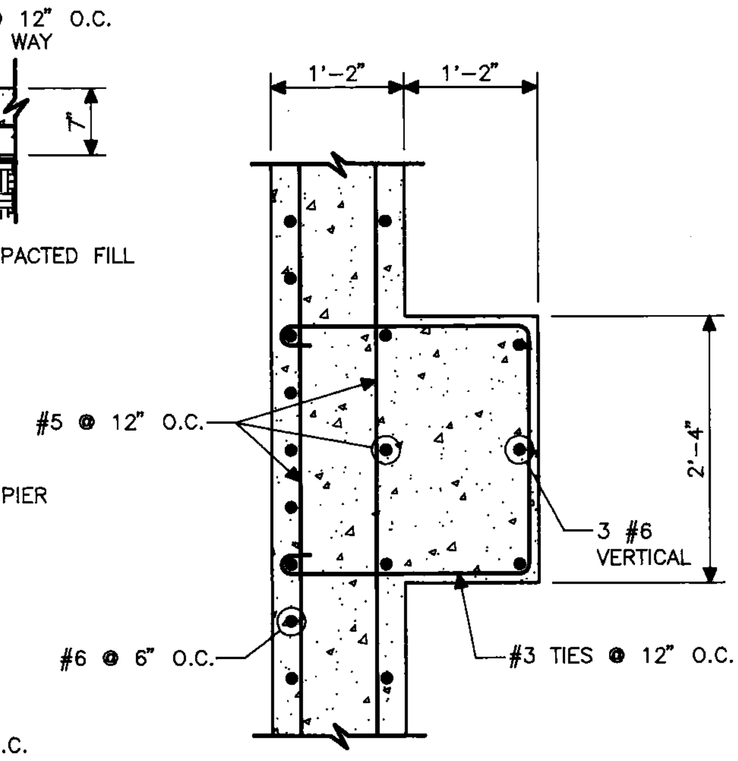
7/7 SECTION SCALE: 3/4" = 1'-0"



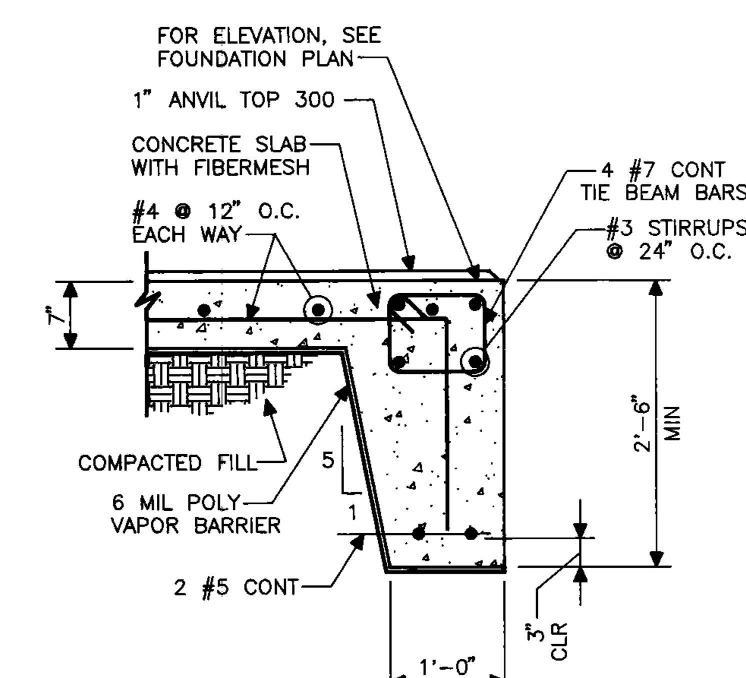
8/7 SECTION SCALE: 3/4" = 1'-0"



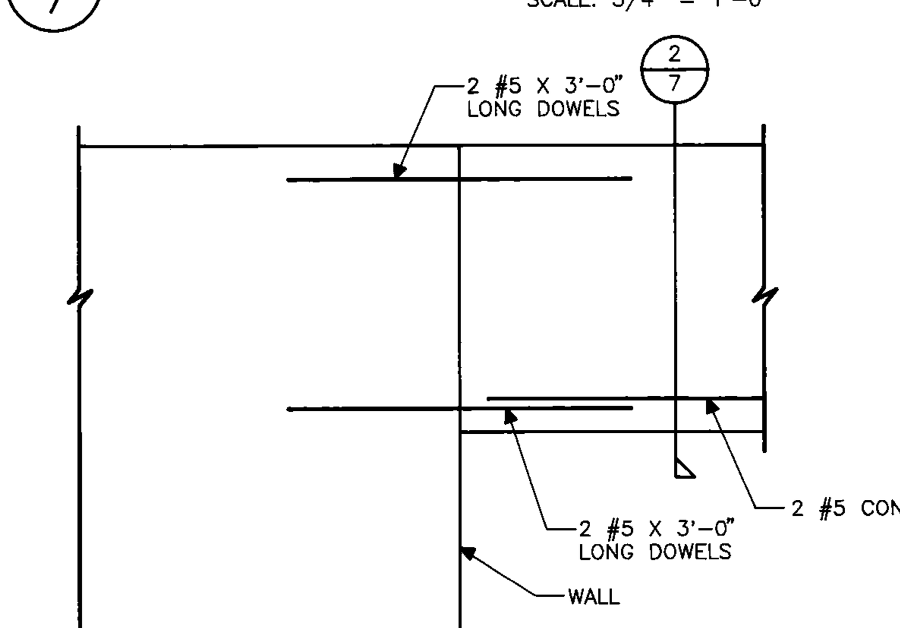
9/7 SECTION SCALE: 3/4" = 1'-0"



Y PLAN VIEW



11/7 SECTION SCALE: 3/4" = 1'-0"



10/7 SECTION SCALE: 3/4" = 1'-0"

RICHARD L. WILLIAMS
CONSULTING ENGINEERS, INC.
ROANOKE, VIRGINIA
DATE: 3-11-93 COMM. NO. 93-042

COMMONWEALTH OF VIRGINIA
RICHARD L. WILLIAMS
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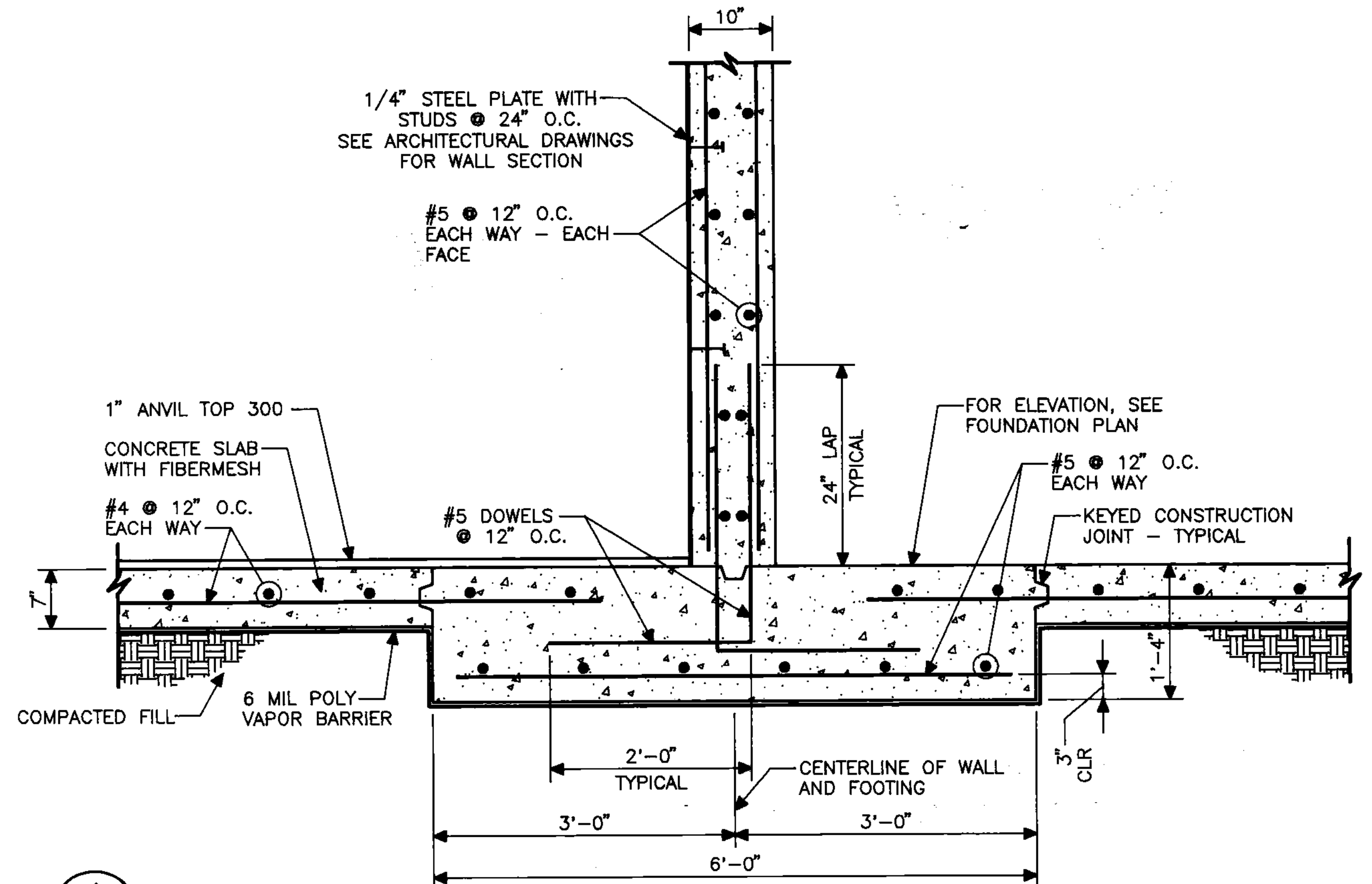
THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

MISCELLANEOUS DETAILS - STRUCTURAL

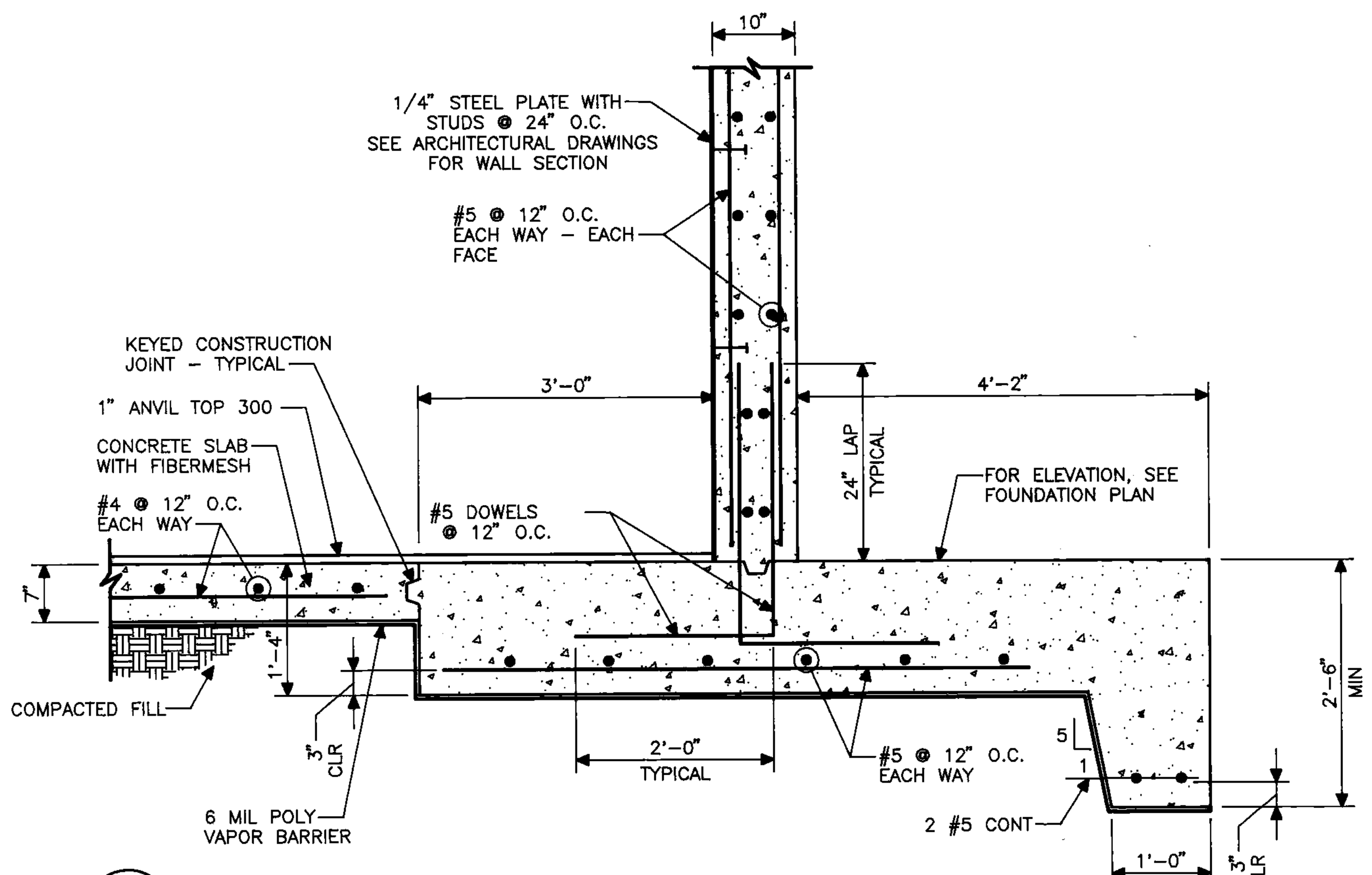
No	Date	Revision

Designed M.C.D.
Drawn M.L.D.
Checked R.L.W.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 7



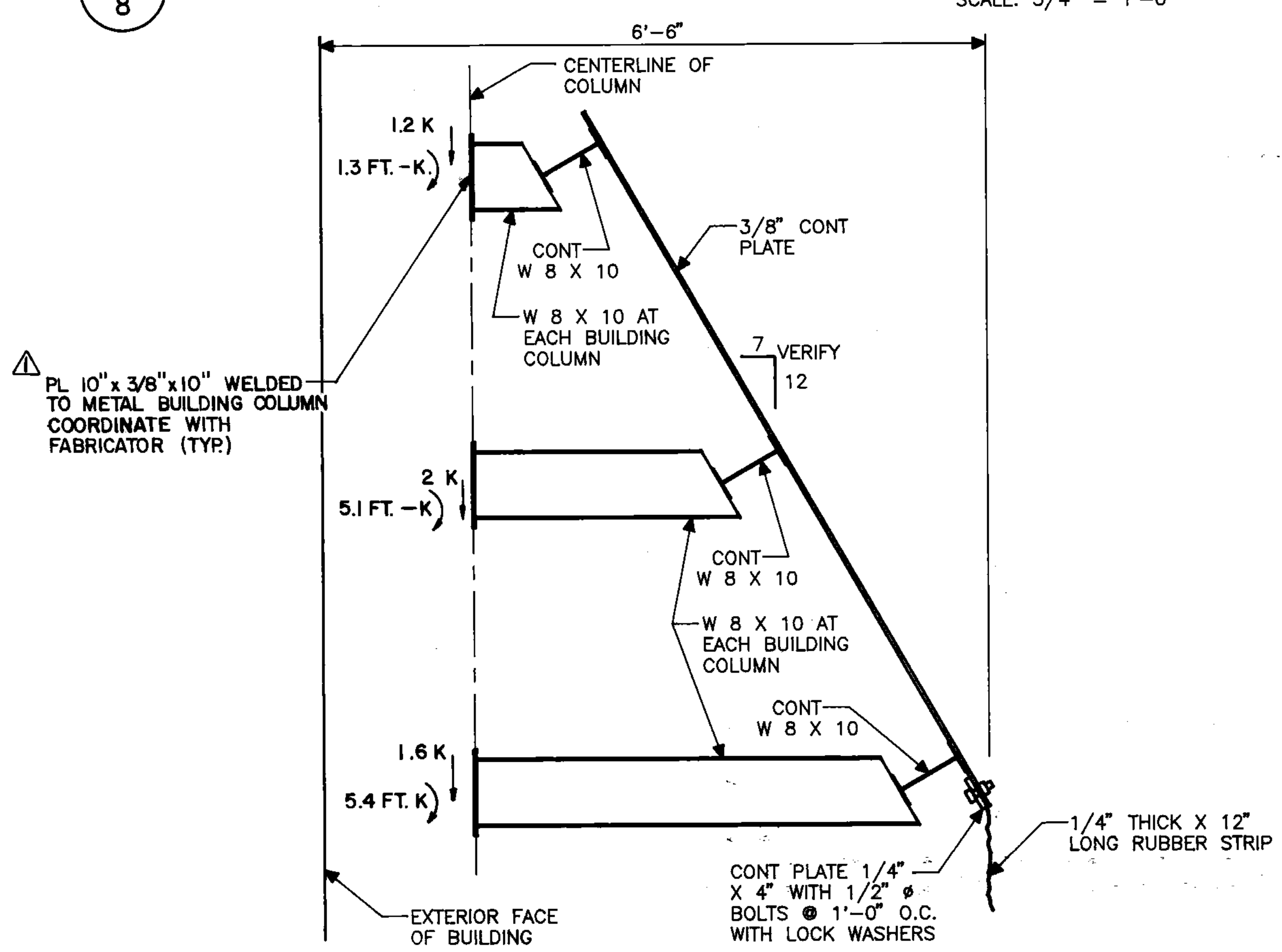
1 / 8 **SECTION**

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



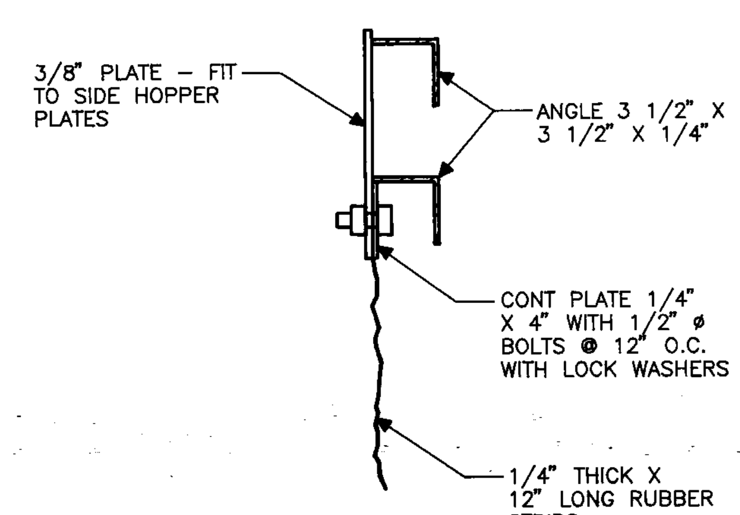
2 / 8 **SECTION**

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



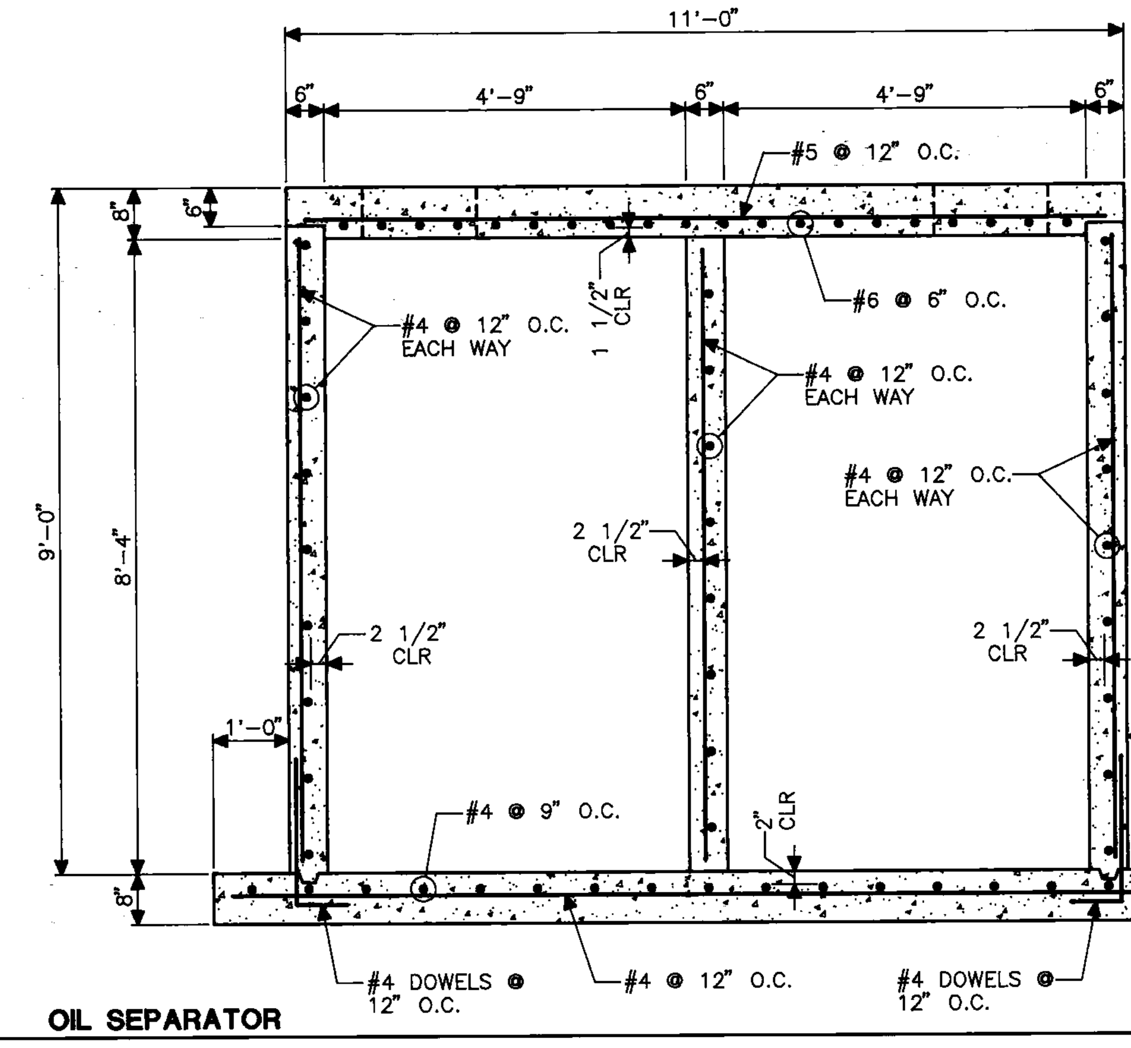
3 / 8 **SECTION**

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

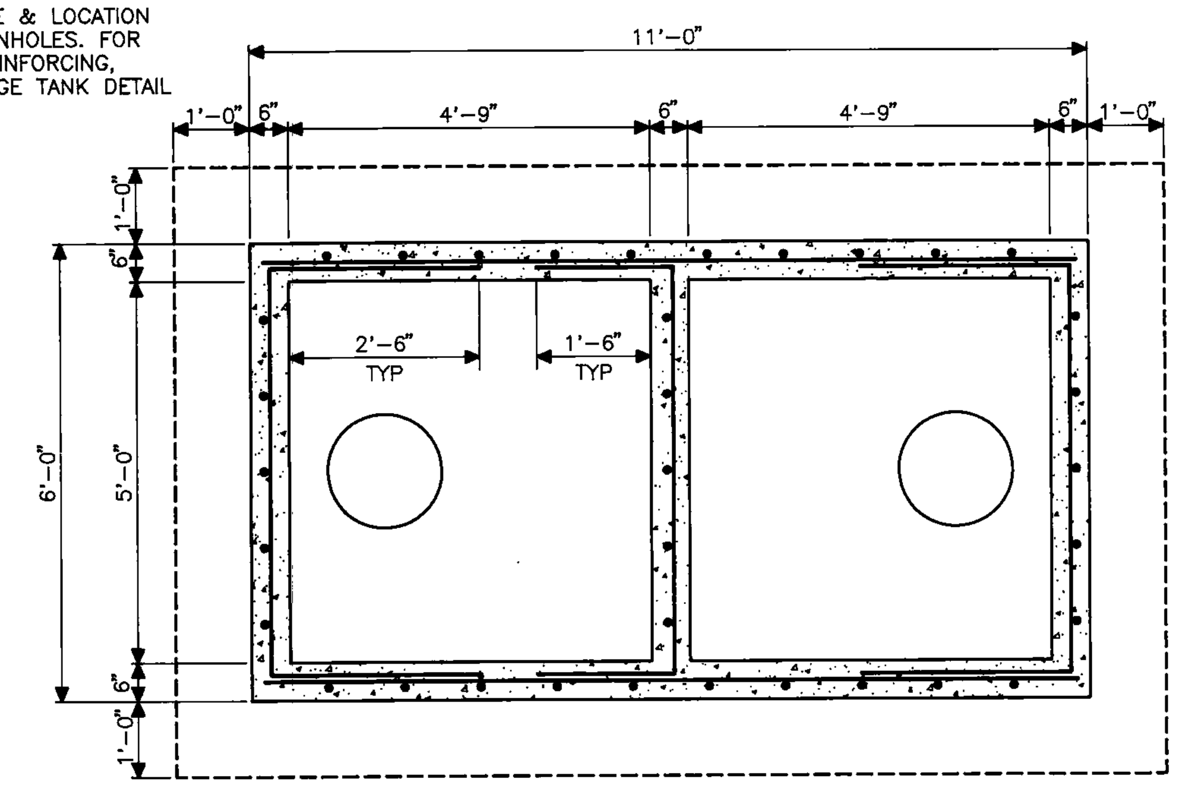


4 / 8 **SECTION**

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



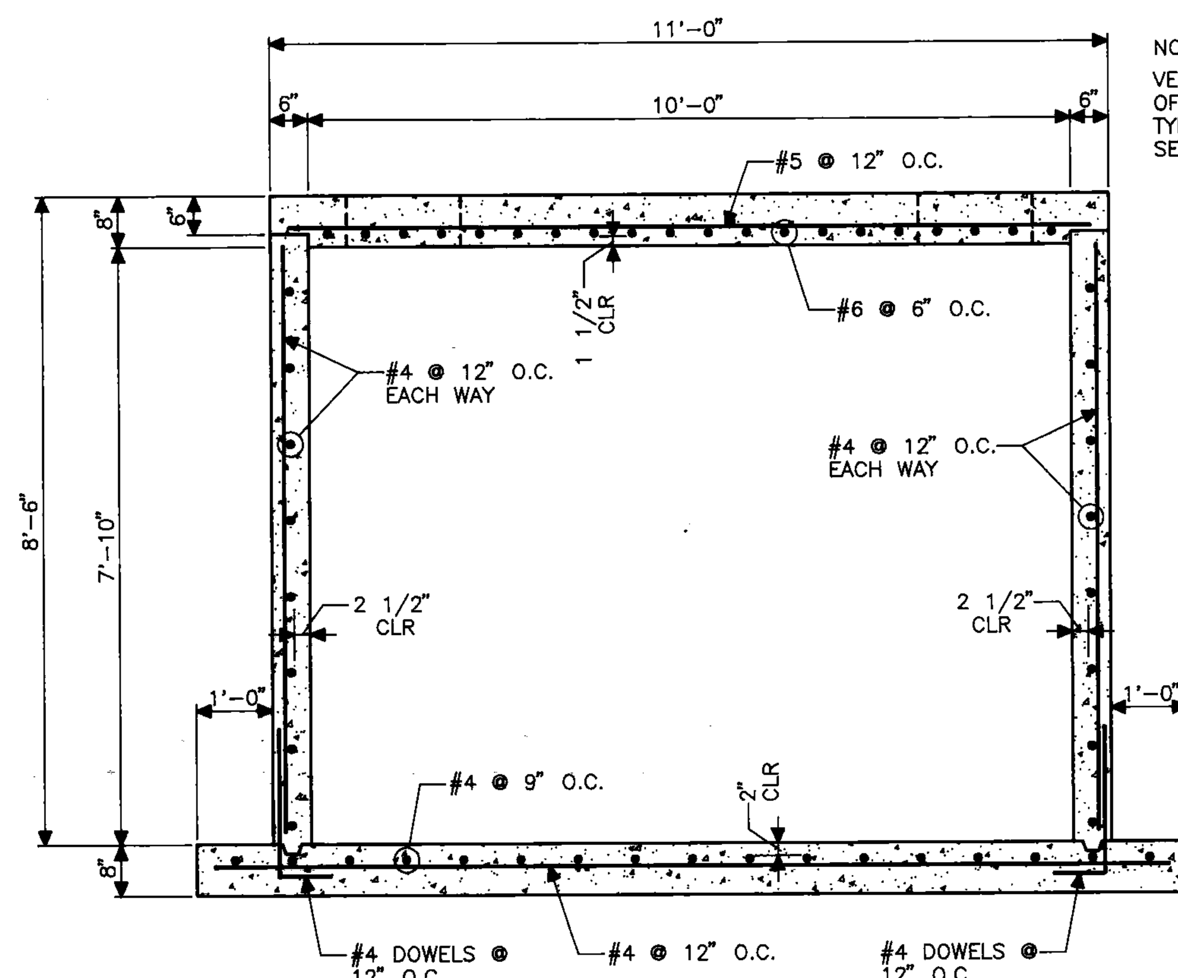
NOTE:
VERIFY SIZE & LOCATION OF ALL MANHOLES. FOR TYPICAL REINFORCING, SEE STORAGE TANK DETAIL



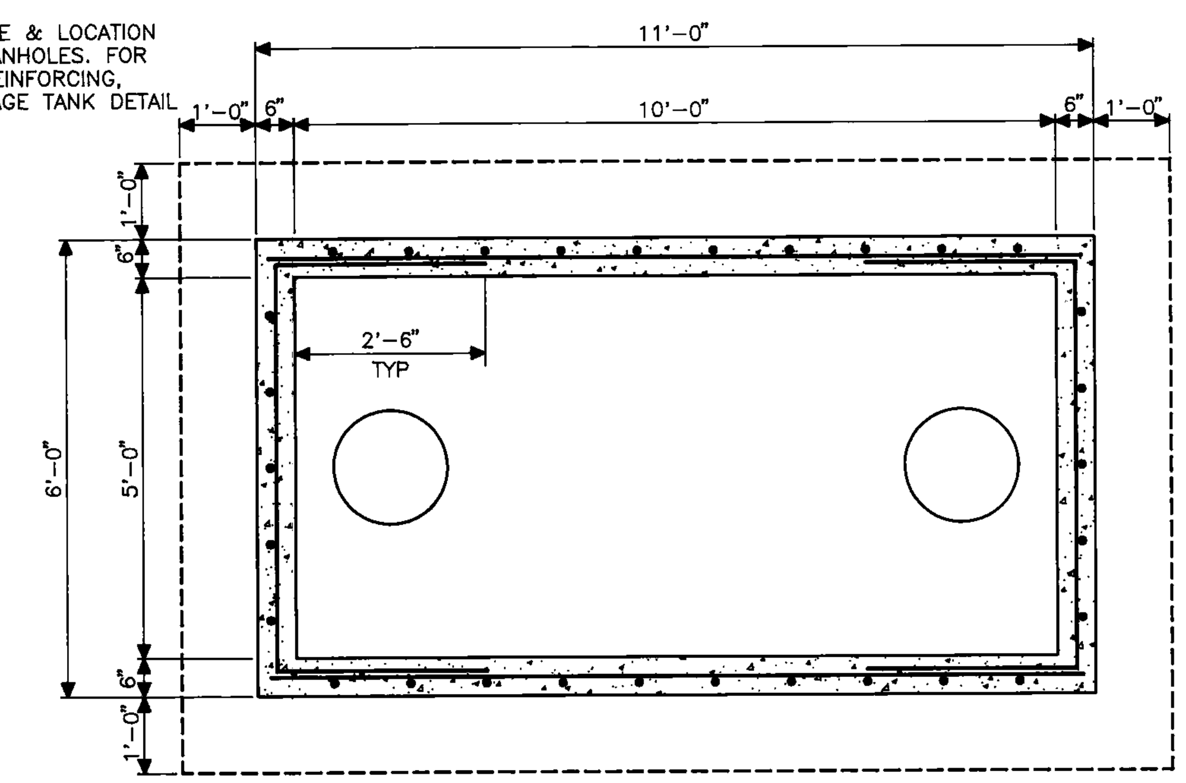
PLAN VIEW

OIL SEPARATOR

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



NOTE:
VERIFY SIZE & LOCATION OF ALL MANHOLES. FOR TYPICAL REINFORCING, SEE STORAGE TANK DETAIL



PLAN VIEW

SAND TRAP

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

RICHARD L. WILLIAMS
CONSULTING ENGINEERS, INC.
ROANOKE, VIRGINIA
DATE: 3-11-93 COMM. NO. 93-042

COMMONWEALTH OF VIRGINIA
RICHARD L. WILLIAMS
CERTIFICATE No. 3226
93-11-93
PROFESSIONAL ENGINEER

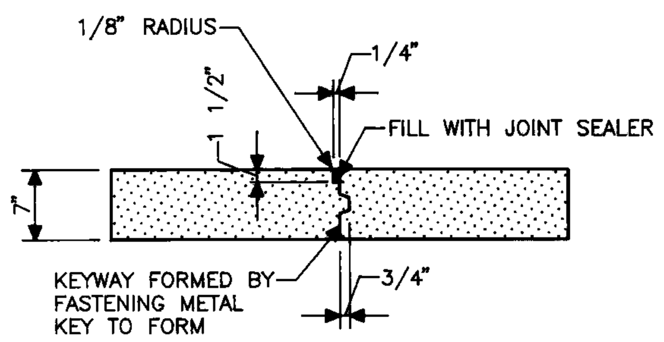
THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

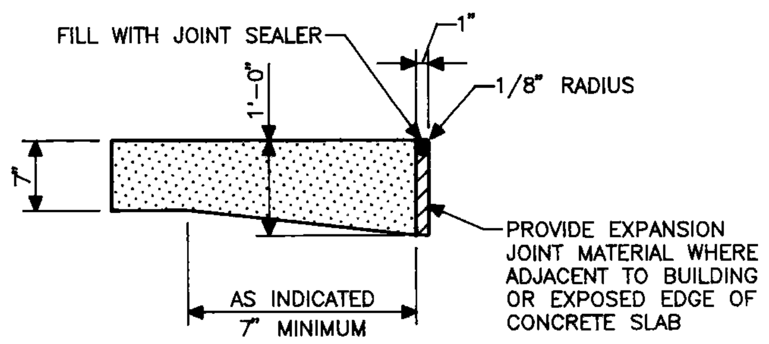
MISCELLANEOUS DETAILS - STRUCTURAL

No.	Date	Revision
1	3/25/93	ADDENDUM #1 DATED 3/26/93

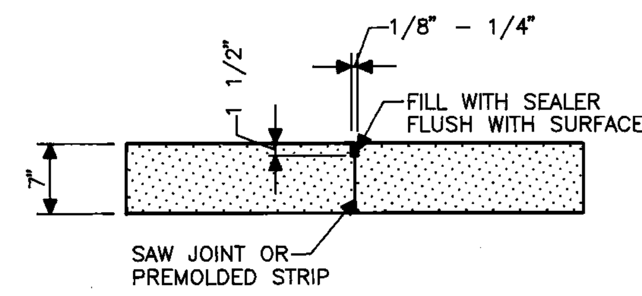
Designed M.C.D.
Drawn M.L.D.
Checked R.L.W.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 8



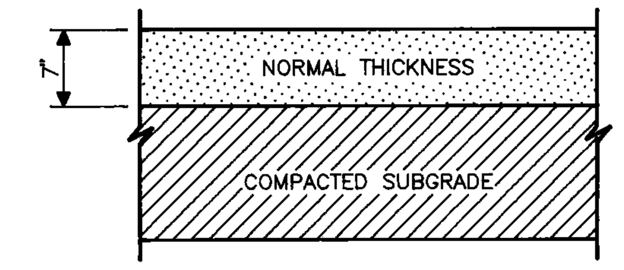
CONSTRUCTION JOINT (CJ)
TYPICAL DETAIL NOT TO SCALE



THICKENED EDGE (TE)
TYPICAL DETAIL NOT TO SCALE

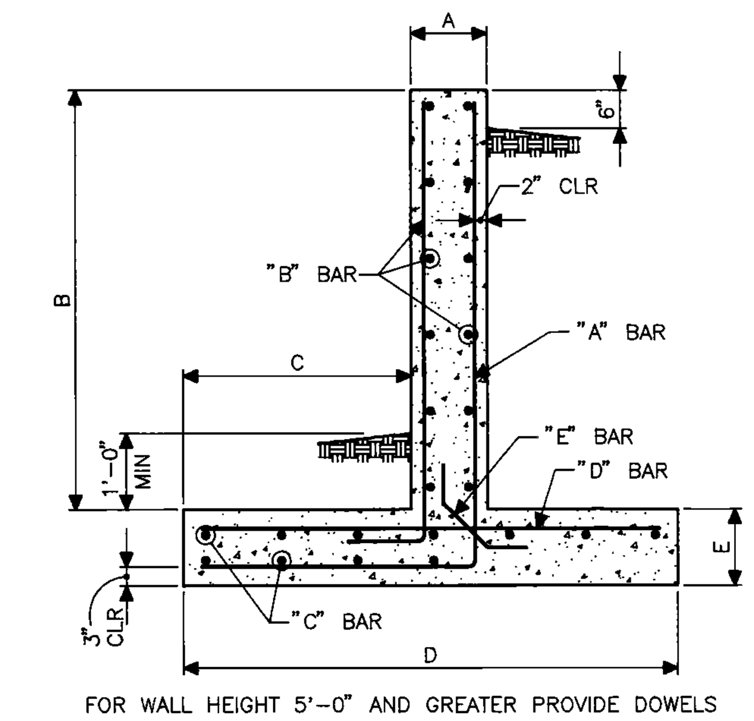


SAWED OR PREMOLDED STRIP (SJ)
TYPICAL DETAIL NOT TO SCALE

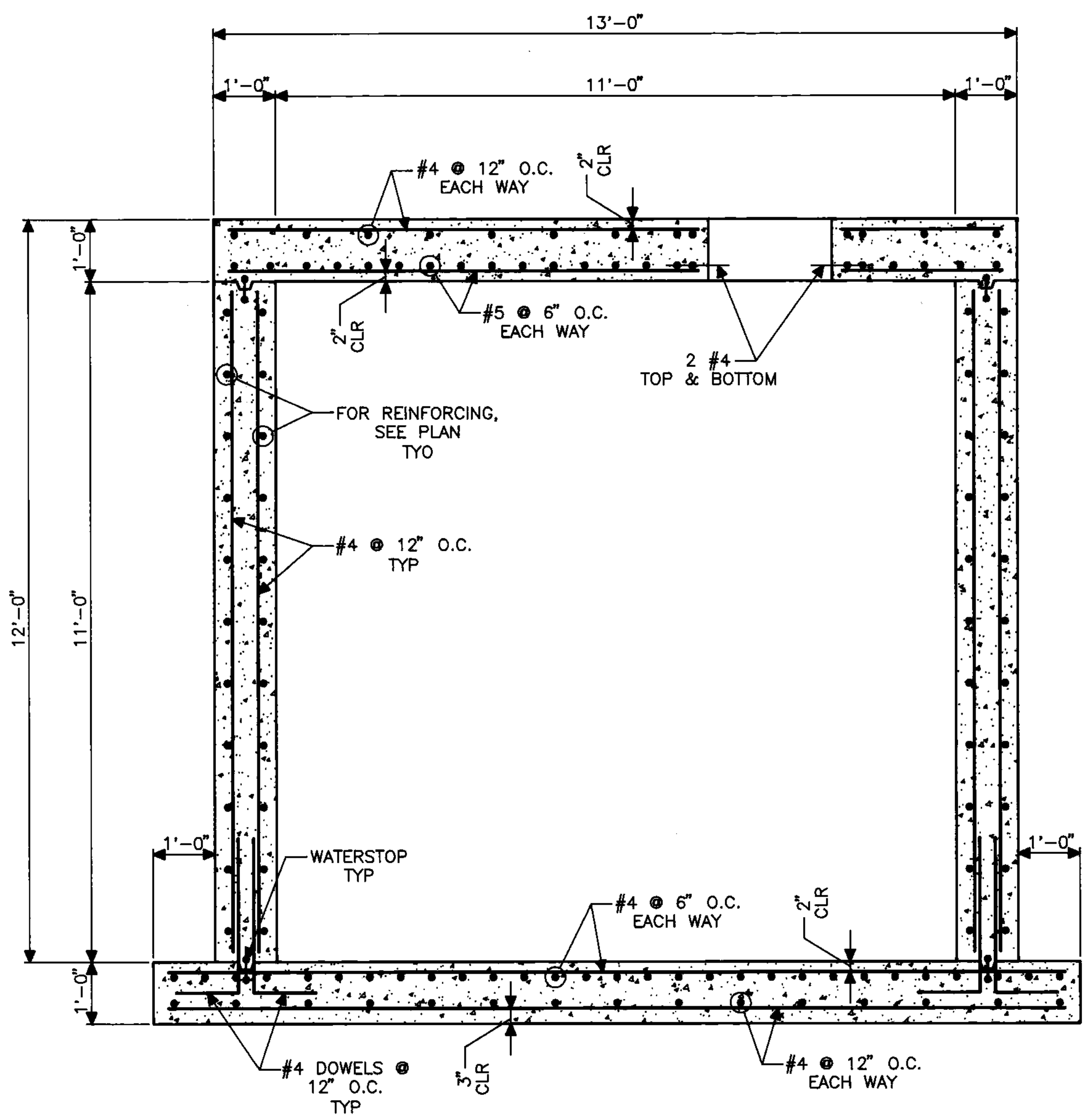


CONCRETE PAVEMENT SECTION
TYPICAL DETAIL NOT TO SCALE

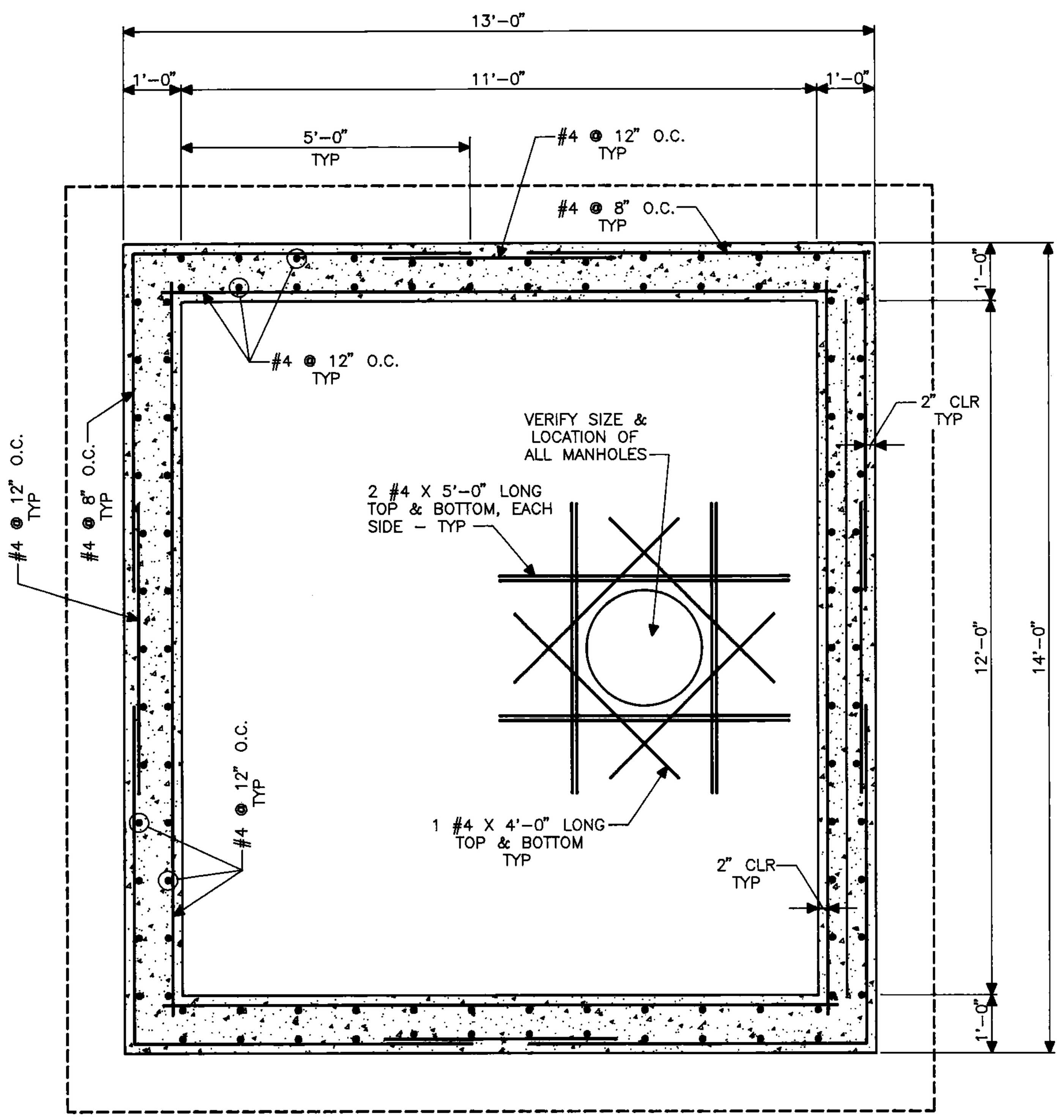
CONCRETE RETAINING WALL SCHEDULE										
WALL SECTION	DIMENSIONS					BARS				
	A	B	C	D	E	"A"	"B"	"C"	"D"	"E"
A	1'-3"	15'-0"	2'-6"	8'-6"	1'-4"	#8 @ 6"	#5 @ 12"	#5 @ 12"	#6 @ 6"	#7 @ 12"
B	1'-6"	17'-0"	3'-6"	9'-9"	1'-8"	#9 @ 6"	#5 @ 12"	#5 @ 12"	#6 @ 6"	#7 @ 12"
NOTE: FOR WALL 9'-0" OR GREATER PROVIDE HORIZONTAL AND VERTICAL BARS IN FRONT FACE OF WALL										



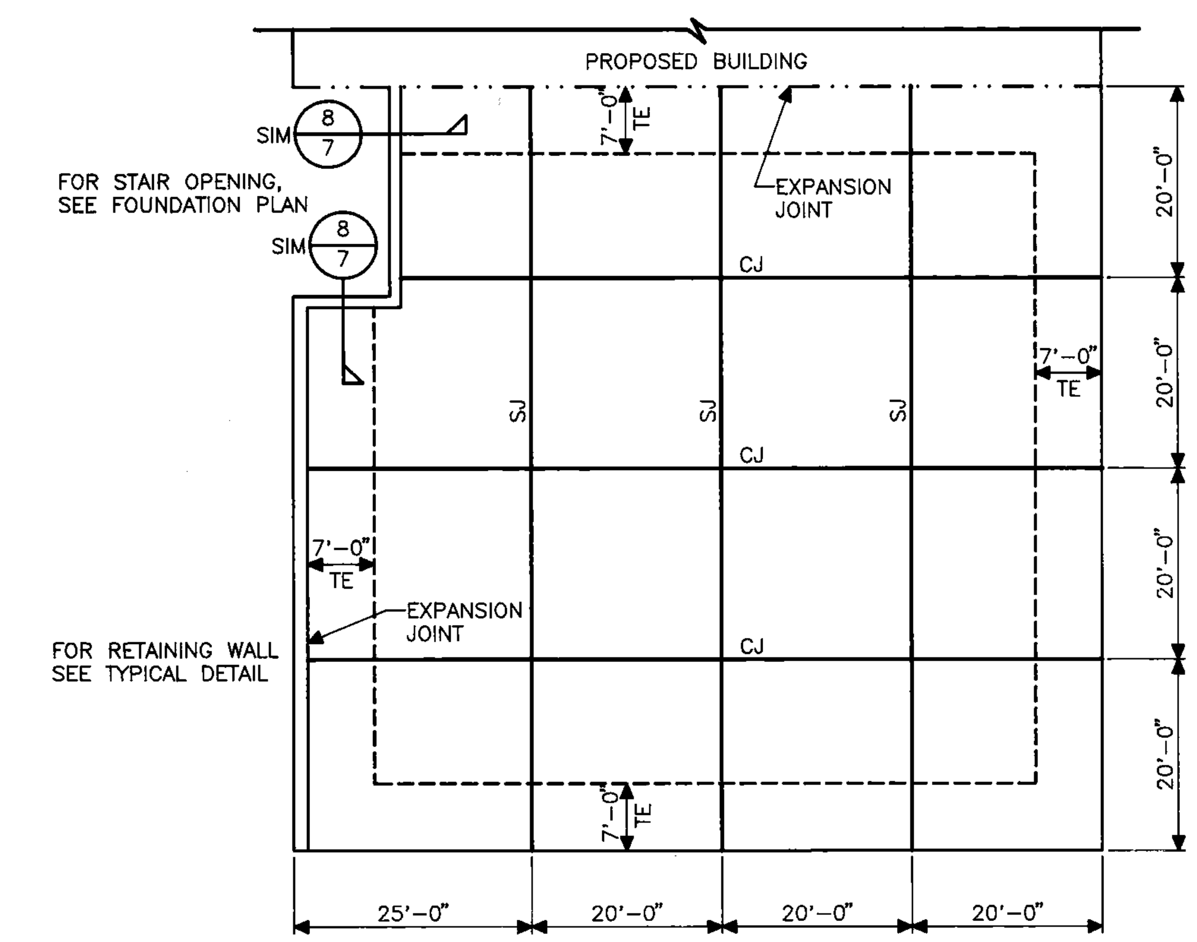
CONCRETE RETAINING WALL AND FOOTING
SCALE: 1/2" = 1'-0"



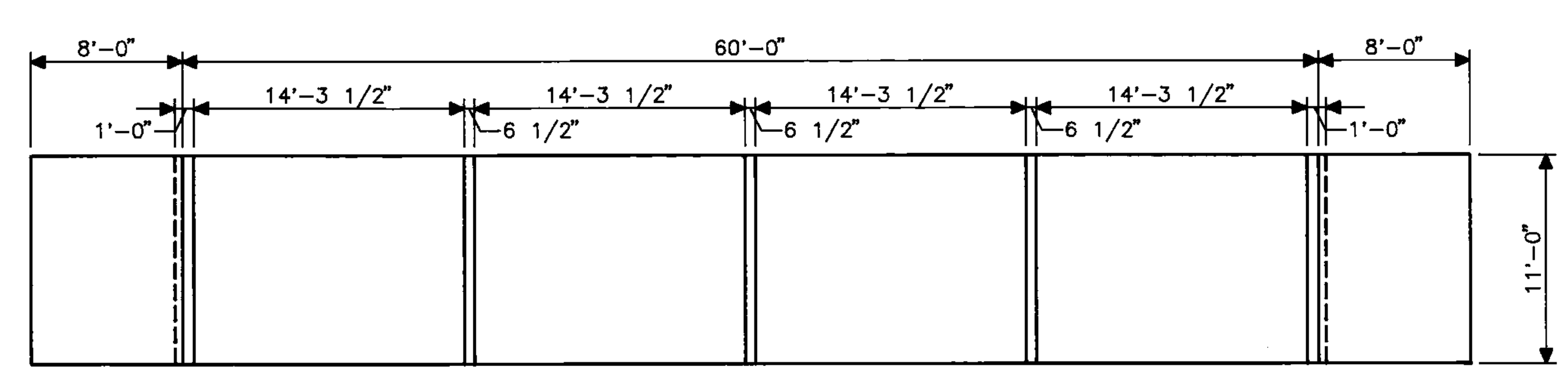
5000 GALLON STORAGE TANK



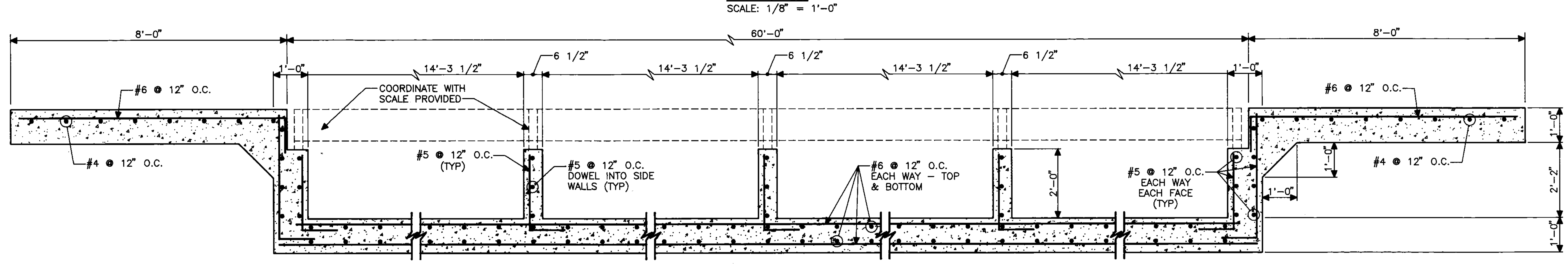
PLAN VIEW
SCALE: 1/2" = 1'-0"



RETAINING WALL AND CONCRETE ENTRANCE PAD
SCALE: 1/16" = 1'-0"



PLAN VIEW
SCALE: 1/8" = 1'-0"



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

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WASHINGTON COUNTY
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MISCELLANEOUS DETAILS - STRUCTURAL

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Designed M.C.D.
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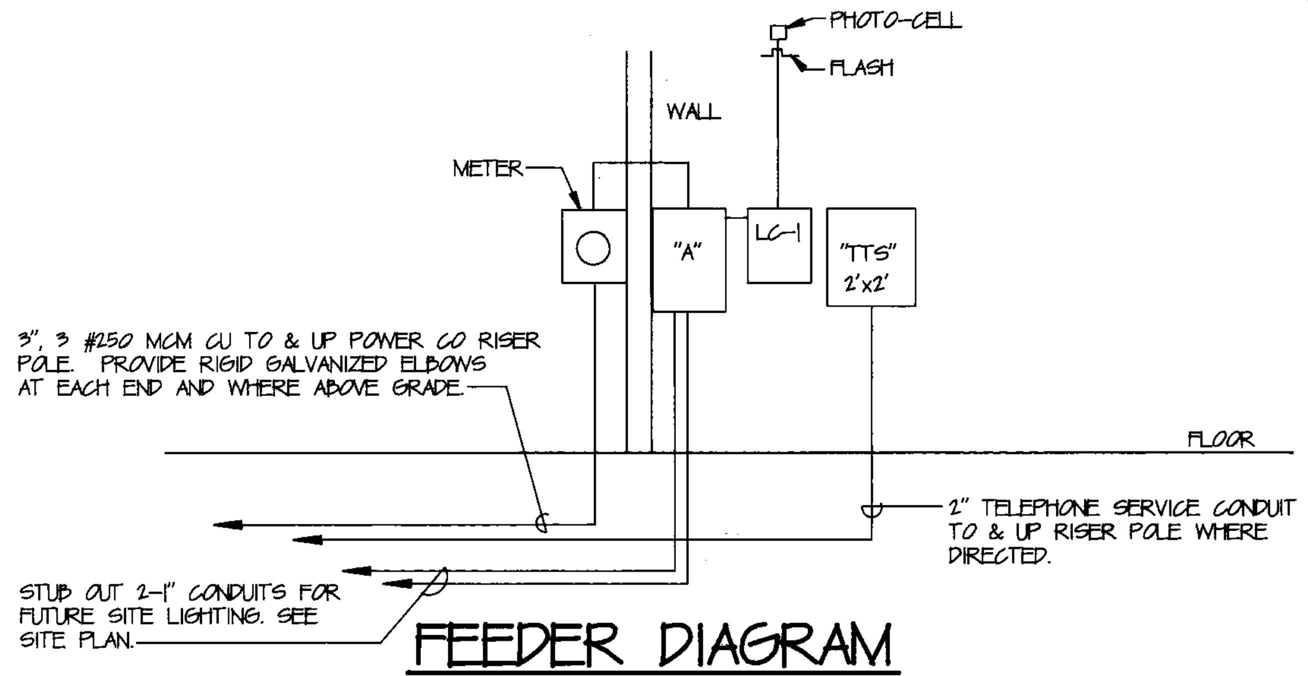
Sheet No. 9

PANEL "A", 120/240 VOLTS, 1 PHASE, 3 WIRE, MAIN BKR, 200 AMPS

MOUNTING SURFACE DEPTH 6" WIDTH 20" NOTES SERVICE ENTRANCE 25,000 A.I.C. MAIN BKR.

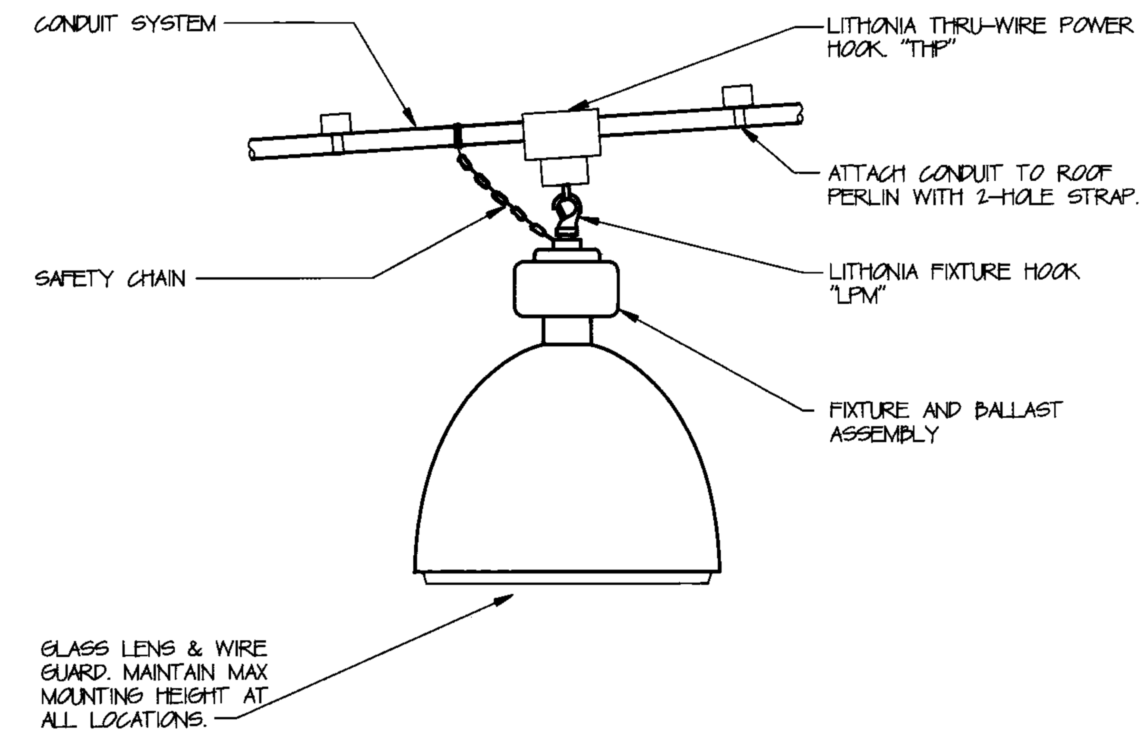
LOAD	BKR. SIZE/POLE	KW	CKT (A B)	CKT	KW	BKR. SIZE/POLE	LOAD
LIGHTS	20/1	1.5	1	2	1.5	20/1	LIGHTS
LIGHTS		1.0	3	4	1.0		LIGHTS
LIGHTS		1.5	5	6	1.5		LIGHTS
LIGHTS		1.0	7	8	1.0		LIGHTS
LIGHTS		1.5	9	10	.5		TTS RECEPT
STORAGE AREA LIGHTS		1.0	11	12	1.0		RECEPTS
EXTERIOR LIGHTS		.5	13	14	.5		RECEPTS
EXTERIOR LIGHTS		1.0	15	16			SPARE
EXTERIOR LIGHTS		1.0	17	18			SPARE
HOPPER LIGHTS		1.5	19	20			SPARE
HEAT TRACE		0.2	21	22			SPARE
SPARE			23	24			SPARE
SPARE			25	26			SPARE
SPARE			27	28			SPARE
PROVISION	/1		29	30		/1	PROVISION
			31	32			
			33	34			
			35	36	3.4	60/	FUTURE AIR COMP.
			37	38	3.4	/2	
WALL HEATER	20/	1.5	39	40	1.5	20/	WALL HEATER
	/2	1.5	41	42	1.5	/2	

LOAD -KW A PH. 16.4 B PH. 16.4 TOTAL 32.8



FEEDER DIAGRAM

SCALE: NONE



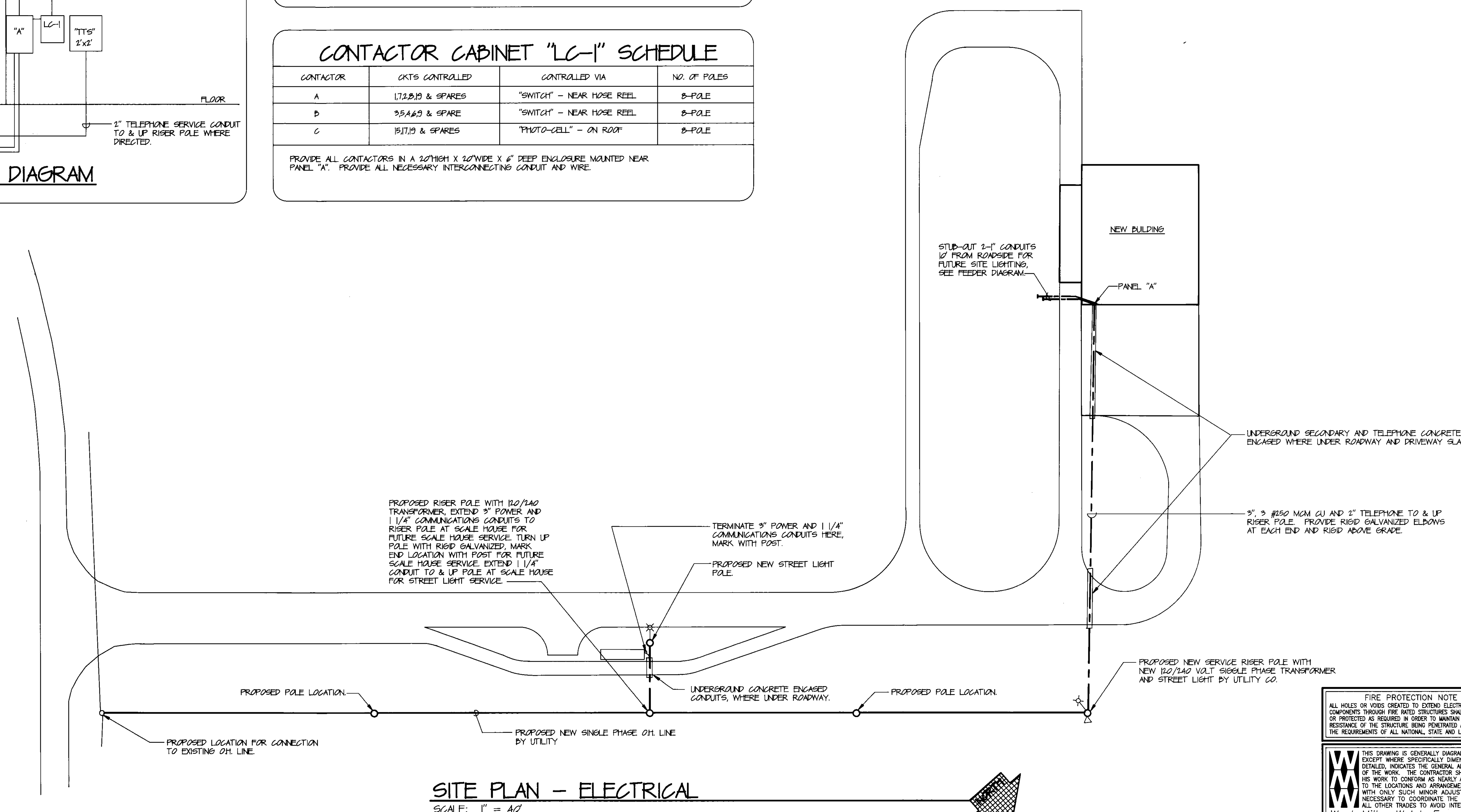
FIXTURE TYPE "A" DETAIL

SCALE: NONE

CONTACTOR CABINET "LC-1" SCHEDULE

CONTACTOR	CKTS CONTROLLED	CONTROLLED VIA	NO. OF POLES
A	1,7,2,8,19 & SPARES	"SWITCH" - NEAR HOSE REEL	8-POLE
B	3,5,4,6,9 & SPARE	"SWITCH" - NEAR HOSE REEL	8-POLE
C	15,17,19 & SPARES	"PHOTO-CELL" - ON ROOF	8-POLE

PROVIDE ALL CONTACTORS IN A 20"HIGH X 20"WIDE X 6" DEEP ENCLOSURE MOUNTED NEAR PANEL "A". PROVIDE ALL NECESSARY INTERCONNECTING CONDUIT AND WIRE.



SITE PLAN - ELECTRICAL

SCALE: 1" = 40'

FIRE PROTECTION NOTE

ALL HOLES OR VOIDS CREATED TO EXTEND ELECTRICAL SYSTEM COMPONENTS THROUGH FIRE RATED STRUCTURES SHALL BE SEALED OR PROTECTED AS REQUIRED IN ORDER TO MAINTAIN THE UL FIRE RESISTANCE OF THE STRUCTURE BEING PENETRATED AS WELL AS THE REQUIREMENTS OF ALL NATIONAL, STATE AND LOCAL CODES.

THIS DRAWING IS GENERALLY DIAGRAMMATIC AND, EXCEPT WHERE SPECIFICALLY DIMENSIONED OR DETAILED, INDICATES THE GENERAL ARRANGEMENT OF THE WORK. THE CONTRACTOR SHALL INSTALL HIS WORK TO CONFORM AS NEARLY AS POSSIBLE TO THE LOCATIONS AND ARRANGEMENTS SHOWN, WITH ONLY SUCH MINOR ADJUSTMENTS AS NECESSARY TO COORDINATE THE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES.

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COMMONWEALTH OF VIRGINIA
CHARLES E. WEST
No. 09115
3/10/93
PROFESSIONAL ENGINEER

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ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

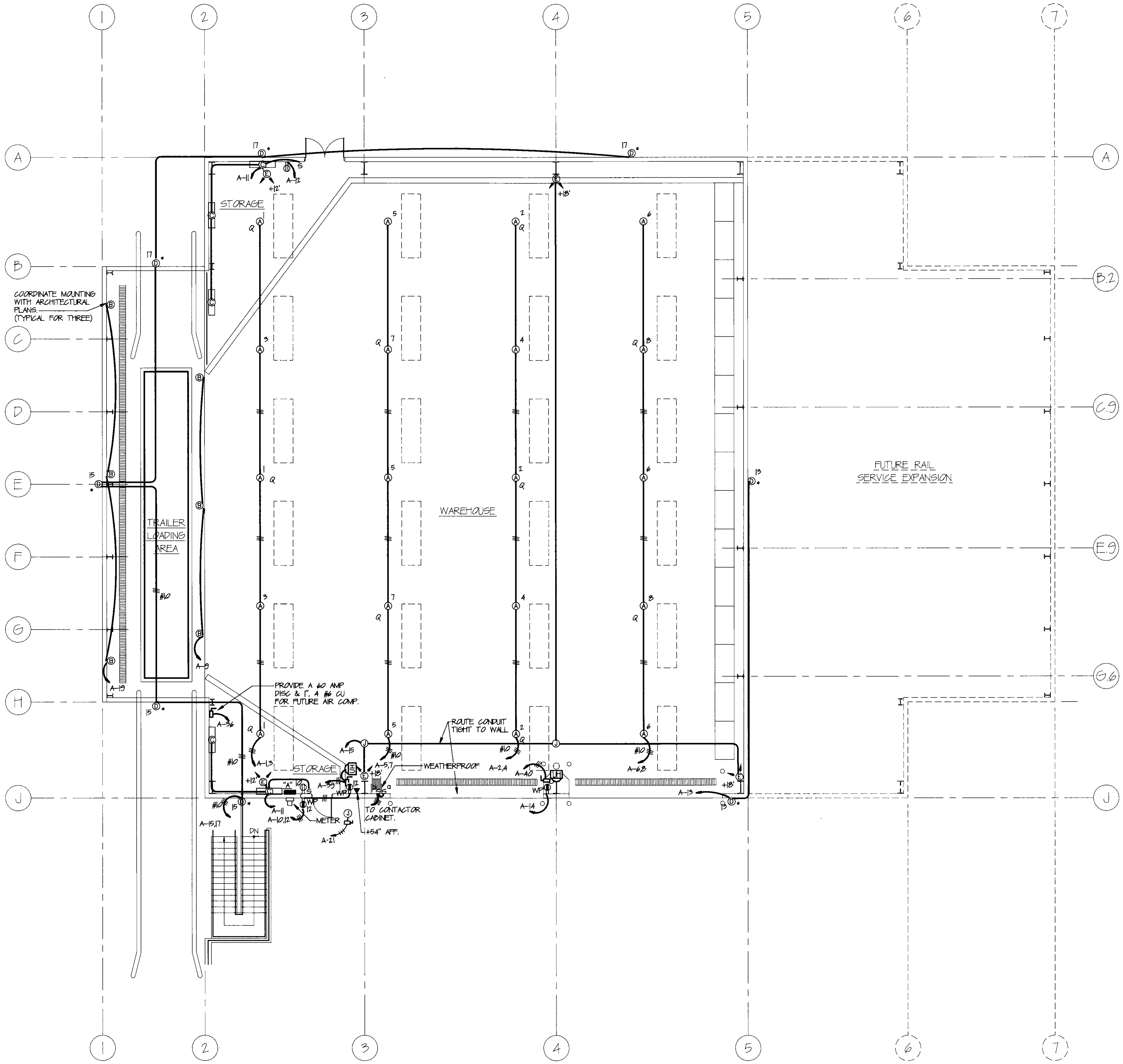
WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

MISCELLANEOUS DETAILS - ELECTRICAL

No.	Date	Revision

Designed CWH
Drawn CWH
Checked CEW
Date MARCH 1993
File No.
Project No. 5127-00

Sheet No.



FLOOR PLAN – ELECTRICAL

SCALE: 1/8" = 1'-0"

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
3 A b	INCANDESCENT, H.I.D OR COMPACT TYPE FLUORESCENT FIXTURE – "A" REFERS TO THE DESIGNATION IN THE FIXTURE SCHEDULE, "b" REFERS TO SWITCH CONTROL, "3" REFERS TO THE CIRCUIT NUMBER.
NL A 3 b	FLUORESCENT LIGHTING FIXTURE – "A" REFERS TO DESIGNATION IN THE FIXTURE SCHEDULE, "b" REFERS TO SWITCH CONTROL, "3" REFERS TO CIRCUIT NUMBER. "NL" INDICATES THE FIXTURE IS A NIGHT LIGHT AND SHALL BE UNSWITCHED EXCEPT FOR THE CIRCUIT BREAKER.
W S P D S	EXIT SIGN – "W" INDICATES WALL MOUNTED, "C" INDICATES CEILING MOUNTED, "P" INDICATES PENDANT MOUNTED WHERE REQUIRED, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. PROVIDE BATTERY PACK UNIT FOR EMERGENCY OPERATION. EXIT SIGNS SHALL BE UNSWITCHED EXCEPT FOR THE BREAKER. DUAL-LITE EZ-SNAP SERIES WITH RED LETTERING AND COMPACT FLUORESCENT LAMPS. VOLTAGE AS REQUIRED.
4 S 3 p m	WALL SWITCH – RATED FOR 20 AMP OPERATION AT LINE VOLTAGE. SINGLE POLE UNLESS NOTED 3-WAY OR 4-WAY. MOUNT 48" ABOVE FLOOR EXCEPT IN MASONAY WHERE THE HEIGHT SHALL BE ADJUSTED TO HAVE EDGE OF BOX OCCUR AT A MASONARY JOINT. "p" INDICATED PILOT LIGHT EQUIPPED. "M" INDICATES MULLION TYPE SWITCH.
J	JUNCTION BOX – SIZE AND USE AS REQUIRED. COVERPLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.
A-1,3	HOMERUN – EXTEND CONDUIT TO PANELBOARD, IN THIS EXAMPLE PANEL "A", CIRCUIT 1 AND 3. NUMBER OF CROSSHATCHED LINES INDICATE THE NUMBER OF #12 AWG CURRENT CARRYING CONDUCTORS WHERE MORE THAN TWO (NOT INCLUDING GROUND). CIRCUITS SHARING A COMMON NEUTRAL SHALL BE CONNECTED TO DIFFERENT LINES OR PHASES WITHIN THE PANELBOARD REGARDLESS OF THE NUMBERING ON THE DRAWINGS. ALL CONDUIT RUNS SHALL HAVE A GREEN #12 AWG GROUND WIRE THAT TIES TO A GROUNDING BUS BAR IN THE PANELBOARD.
	CONDUIT – IN THE FLOOR CONSTRUCTION OR UNDERGROUND.
	CONDUIT – IN THE WALL OR CEILING CONSTRUCTION.
"A"	PANELBOARD – RECESSED OR SURFACE MOUNTED AS INDICATED. MOUNT TOP OF PANEL 6' ABOVE THE FINISHED FLOOR EXCEPT IN MASONRY WALL WHERE HEIGHT SHALL BE ADJUSTED TO HAVE EDGE OF PANEL OCCUR AT MASONRY JOINT. ALL PANELBOARDS SHALL HAVE A SEPARATE GROUND BUS BAR FOR CONNECTION OF GROUND CONDUCTORS. "A" INDICATES PANEL DESIGNATION.
	FUSED DISCONNECT SWITCH – HEAVY DUTY HP RATED. WEATHERPROOF OUTDOORS.
	ELECTRIC MOTOR REQUIRING CONNECTION – SIZE, USE AND LOCATION AS INDICATED. VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO ROUGH-IN. USE FLEXIBLE CONDUIT WITHIN 18" OF EQUIPMENT.
UH	ELECTRIC INFRARED UNIT HEATER 2.2 KW 240 VOLT 1 ø. MARKEL CO # MH-4622 PROVIDE WITH WALL MOUNTING BRACKET. , WIRE GUARD AND BUILT IN THERMOSTAT. PROVIDE EACH UNIT WITH 30 AMP DISCONNECT WITH 20 AMP FUSES.
AC	TELEPHONE OUTLET – 4" BOX WITH 1-GANG DEVICE RING AND TELEPHONE TYPE COVERPLATE. EXTEND 3/4" CONDUIT TO "TTS". MOUNTING HEIGHT SAME AS FOR 120V RECEPTACLE UNLESS NOTED OTHERWISE. "AC" INDICATES MOUNT 6" ABOVE COUNTERTOP OR BACKSPLASH.
AC 3 TV wp	DUPLEX PLUG RECEPTACLE – 120V., 20 AMP. MOUNT 8" ABOVE COUNTERTOP AT WORK COUNTERS AND 18" ELSEWHERE UNLESS NOTED OTHERWISE. "3" REFERS TO CIRCUIT NUMBER, "wp" INDICATES WEATHERPROOF. "TV" INDICATES MOUNTED +7'-6" FOR TELEVISION. "AC" INDICATES MOUNTED ABOVE COUNTER.
3 AC wp	GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE – 120V., 20 AMP. MOUNT 8" ABOVE COUNTERTOP AT WORK COUNTERS AND 18" ELSEWHERE UNLESS NOTED OTHERWISE. "3" REFERS TO CIRCUIT NUMBER, "wp" INDICATES WEATHERPROOF. "AC" INDICATES MOUNTED ABOVE COUNTER.

LIGHTING FIXTURE SCHEDULE

LAMP TYPES

FLR = FLUORESCENT
INC = INCANDESCENT
HPS = HIGH PRESSURE SODIUM
MH = METAL HALIDE
MV = MERCURY VAPOR

GENERAL NOTES

1) FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2) CONTRACTOR SHALL VERIFY CEILING TYPE AND MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.

DESIGNATION	LAMPS			MOUNTING							GENERAL DESCRIPTION	MANUFACTURER	
				CEILING			WALL	GROUND					
	LAMP TYPE	QUANTITY	WATTAGE EACH	PENDANT STEM LENGTH	SURFACE	RECESSED	HEIGHT ABOVE FINISHED FLOOR OR GRADE	POLE HEIGHT	SURFACE	RECESSED		COMPANY	CATALOG NUMBER
A	MH	1	400	2"							HIGH BAY INDUSTRIAL LIGHTING FIXTURE, SPUN ALUM. REFLECTOR NO 9. WITH TEMPERED GLASS LENS AND WIRE GUARD. "Q" INDICATES FIXTURE TO BE QUARTZ RESTRIKE EQUIPPED.	LITHONIA	THP 400M A17 120 QRS CF TPH LCPP LPM
B	MH	1	400				ON HEAD BEAM				WALL PACK CAST ALUM HOUSING, BOROSILICATE LENS, NATURAL ALUMINUM FINISH, PROVIDE W/ WIRE GUARD.	LITHONIA	TWH 400M 120 CRT WG
C	FLR	2	34				10'				VANDAL RESISTANT WET LOCATION INDUSTRIAL FLOURESCENT FIXTURE. 7 5/8" WIDE X 50" LONG. PROVIDE WITH 0° BALLAST	LITHONIA	VRI 240 AR 120 CW
D	MH	1	400				18'				SAME AS "B" EXCEPT COORDINATE FINISH WITH ARCHITECT.	LITHONIA	TWH 400M 120 CRT
E	INC	2	12				VER.				CORROSION RESISTANT EMERGENCY LIGHT, 2-12 WATT LAMPS, 50 WATT OUTPUT,	LITHONIA	ELU-4X

NOTES:

1 ASTERISK (*) INDICATES FIXTURE TO BE CONTROLLED VIA PHOTO-CELL SEE FEEDER DIAGRAM AND CONTACTOR SCHEDULE.

2 COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL PLANS.

FIRE PROTECTION NOTE

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COMMONWEALTH OF VIRGINIA
CHARLES E. WEST
No. 09115
3/10/93
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ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

MISCELLANEOUS DETAILS - ELECTRICAL

No.	Date	Revision

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Drawn CWH
Checked CEW
Date MARCH 1993
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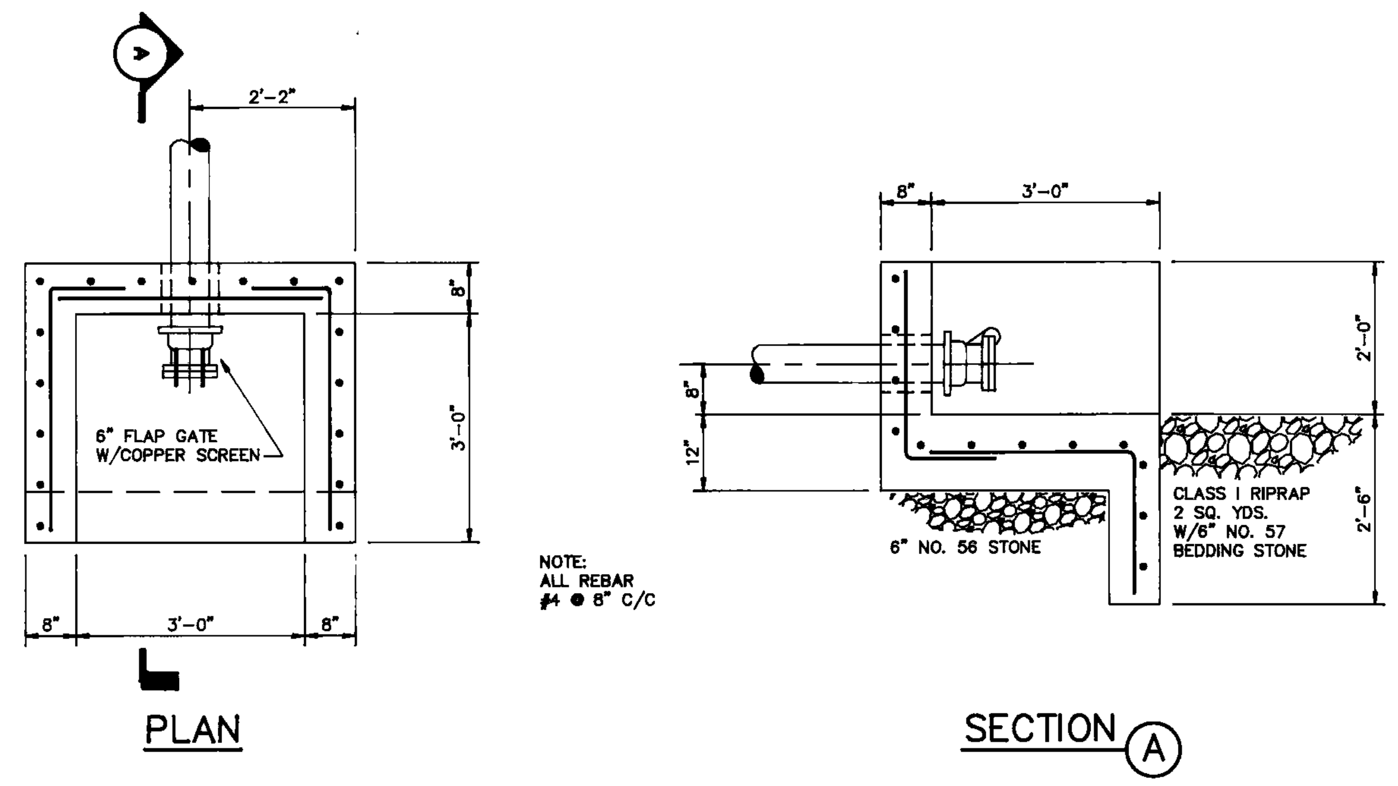
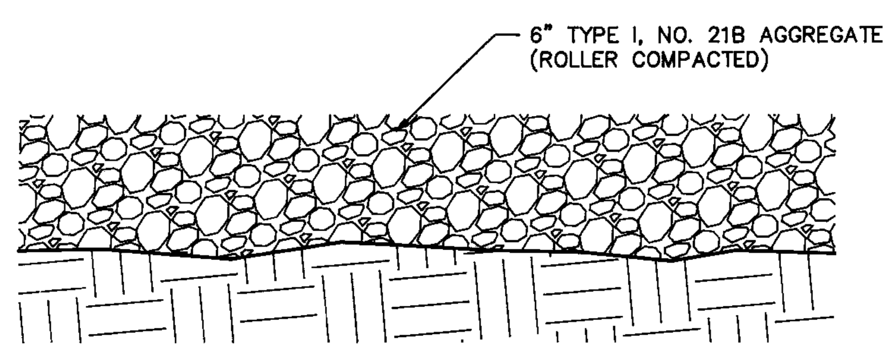
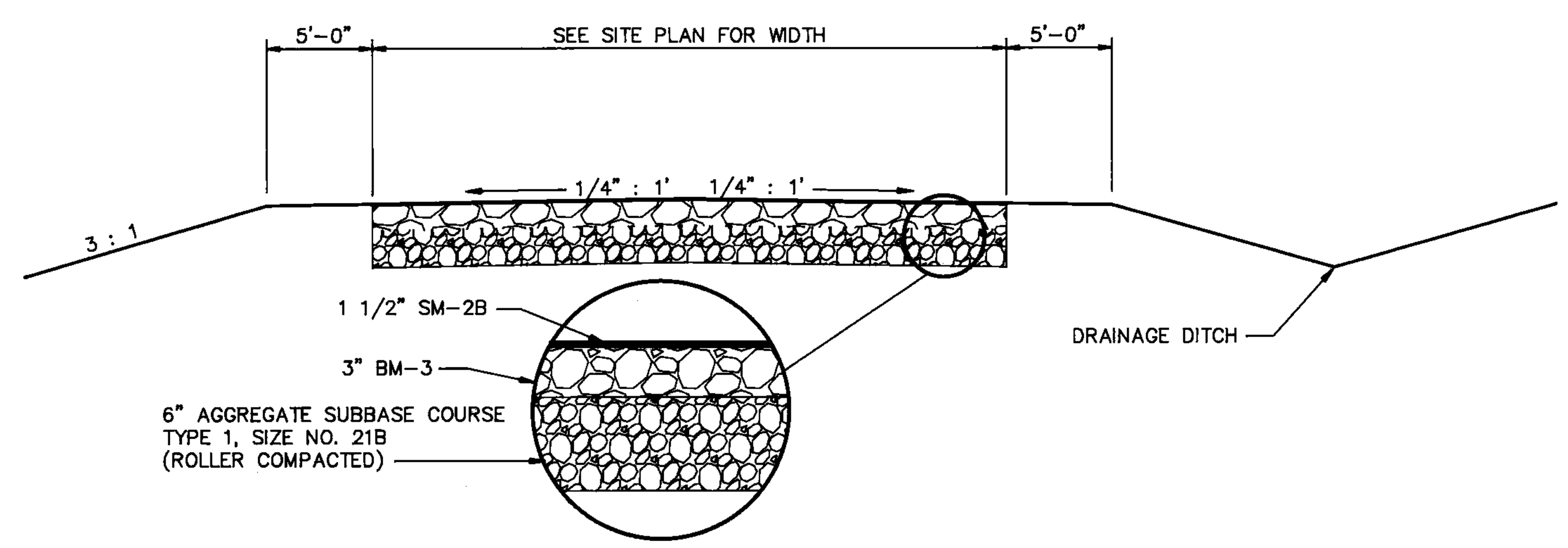


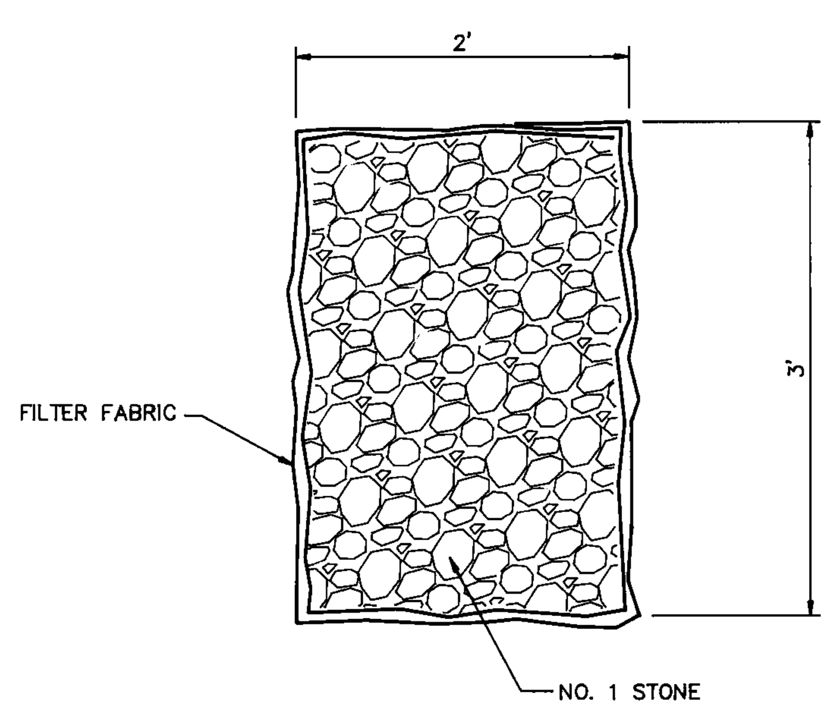
TYPICAL DETAIL – OUTFALL BOX
SCALE: 1/2" = 1'-0"



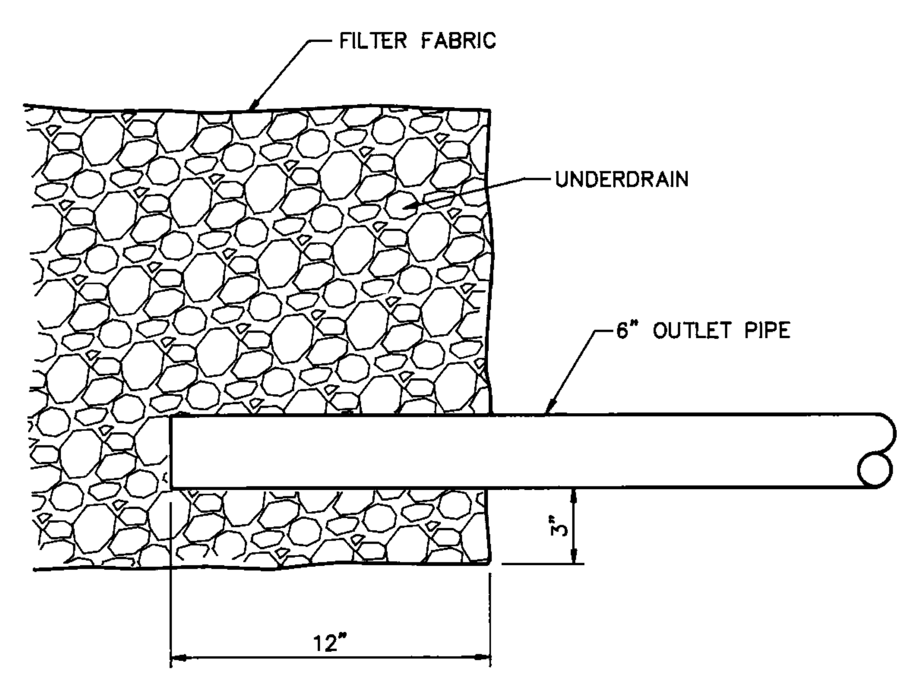
TYPICAL DETAIL – GRAVEL AREA
NOT TO SCALE



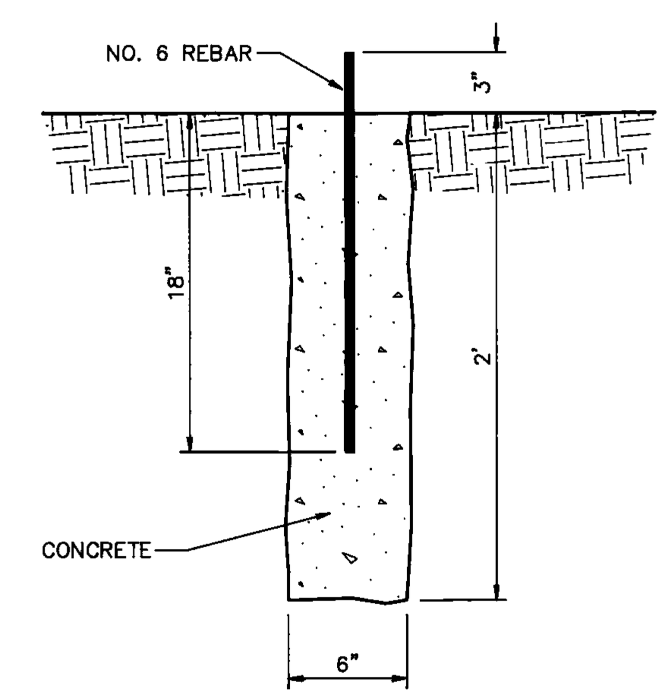
TYPICAL SECTION – PAVED ROAD
NOT TO SCALE



TYPICAL DETAIL – UNDERDRAIN
NOT TO SCALE



TYPICAL DETAIL – UNDERDRAIN OUTLET
NOT TO SCALE



TYPICAL DETAIL – SETTLEMENT MONITORING DEVICE
NOT TO SCALE

COMMONWEALTH OF VIRGINIA
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3-1-93
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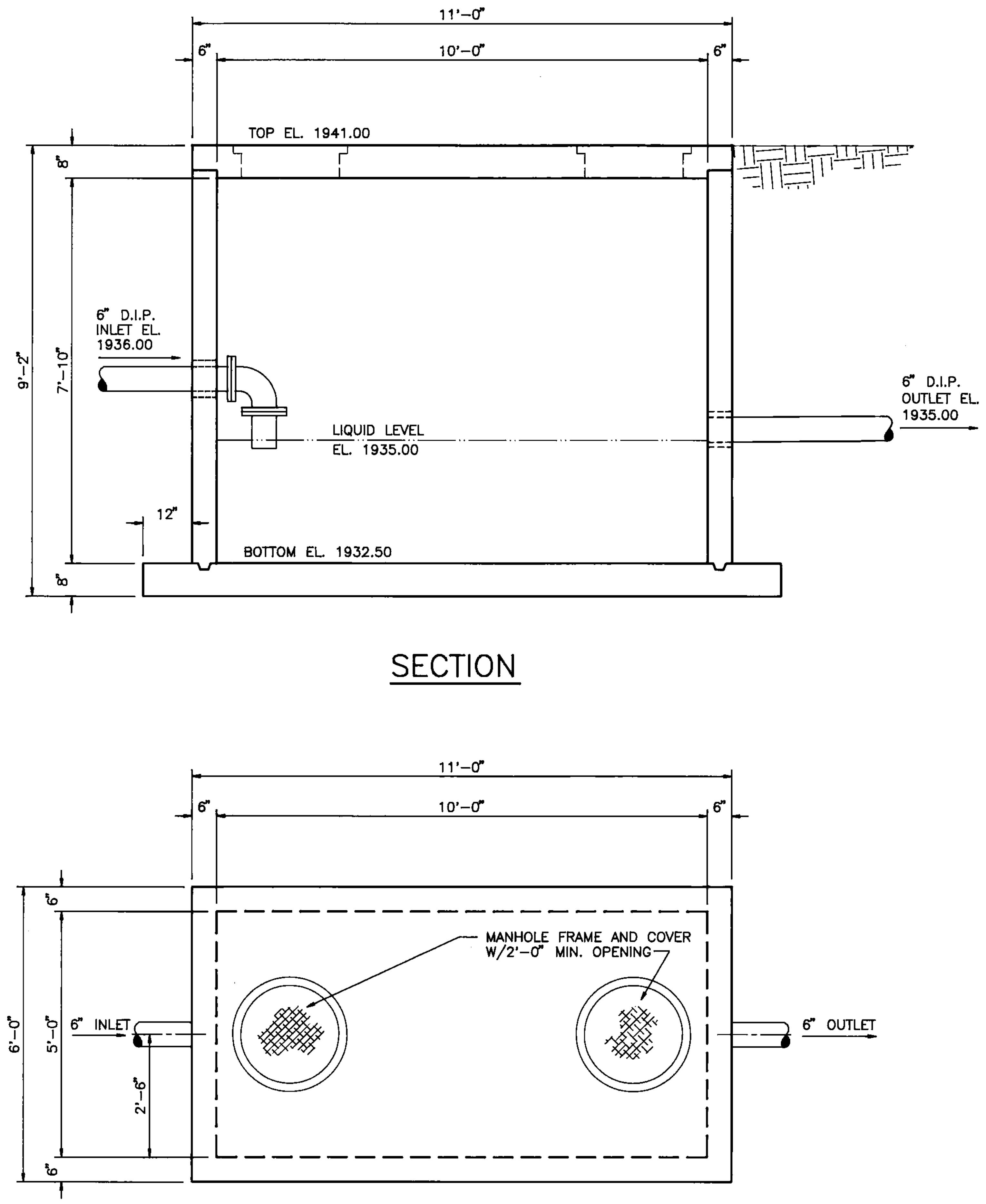
WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

MISCELLANEOUS DETAILS - SITE WORK

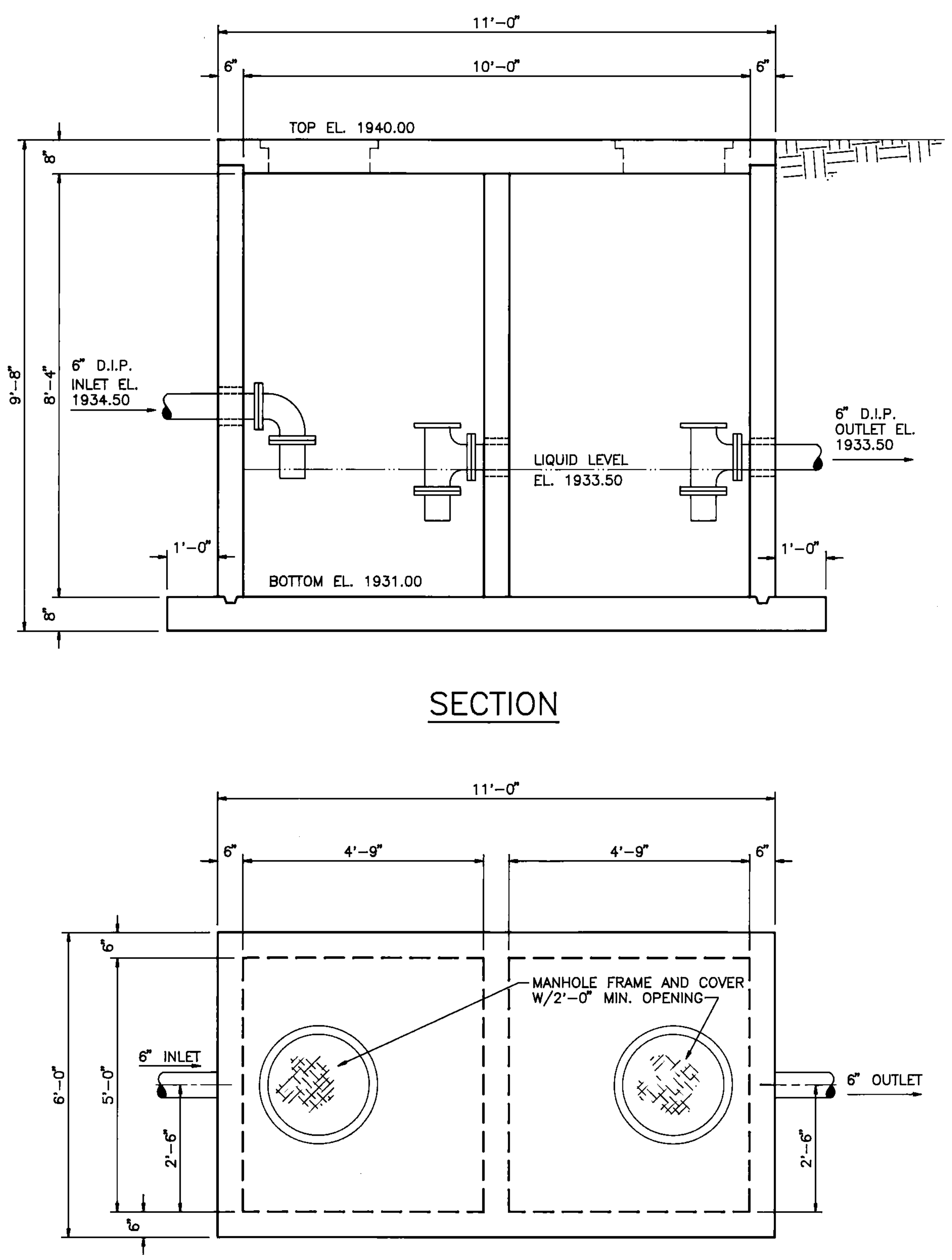
No.	Date	Revision

Designed G.D.W.
Drawn E.S.B.
Checked P.M.M.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 12



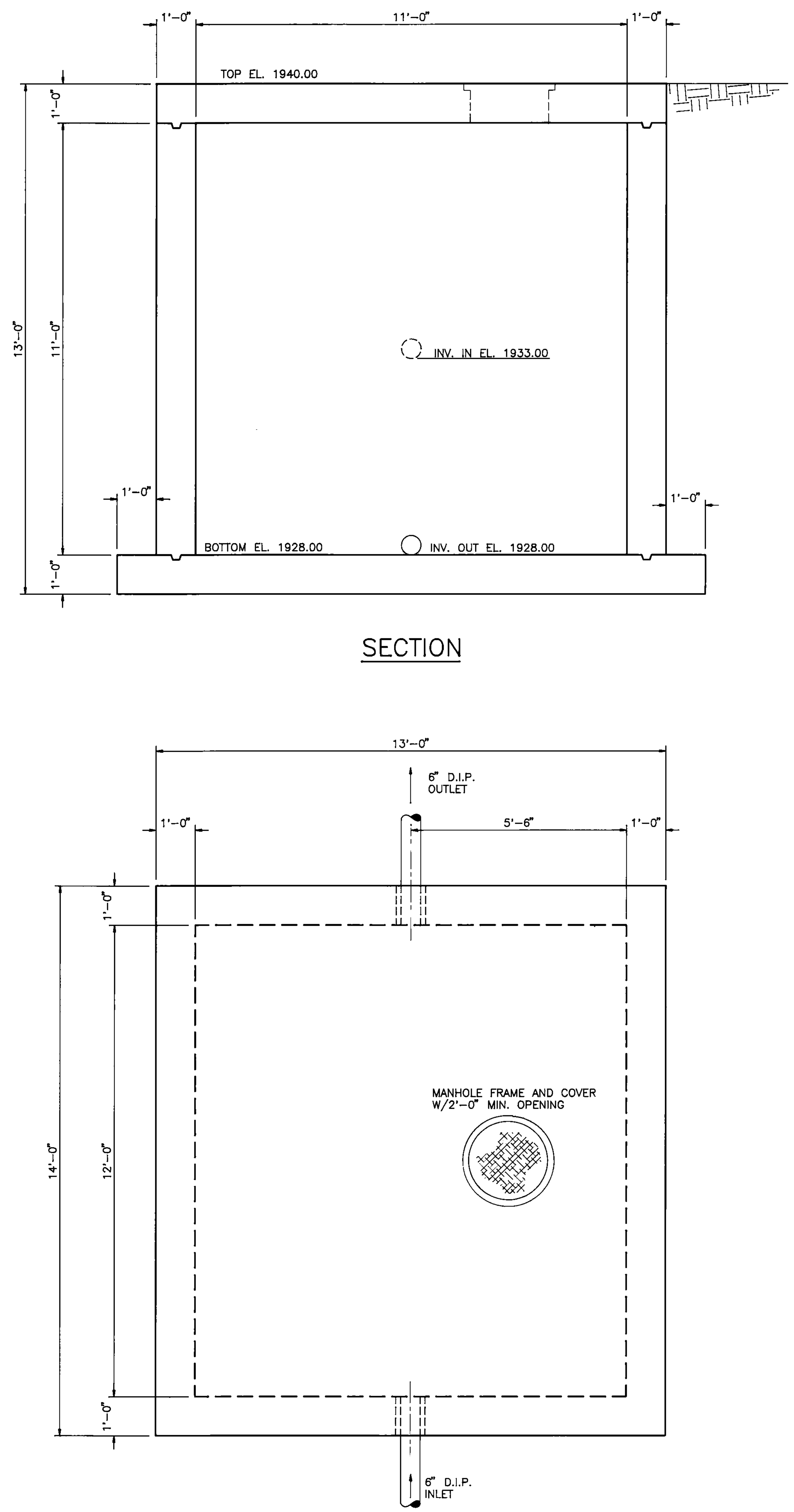
TYPICAL DETAIL – SAND TRAP

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



TYPICAL DETAIL – OIL SEPARATOR

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



TYPICAL DETAIL – 5000 GALLON STORAGE TANK

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

COMMONWEALTH OF VIRGINIA
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3-19-93
CERTIFIED PROFESSIONAL ENGINEER

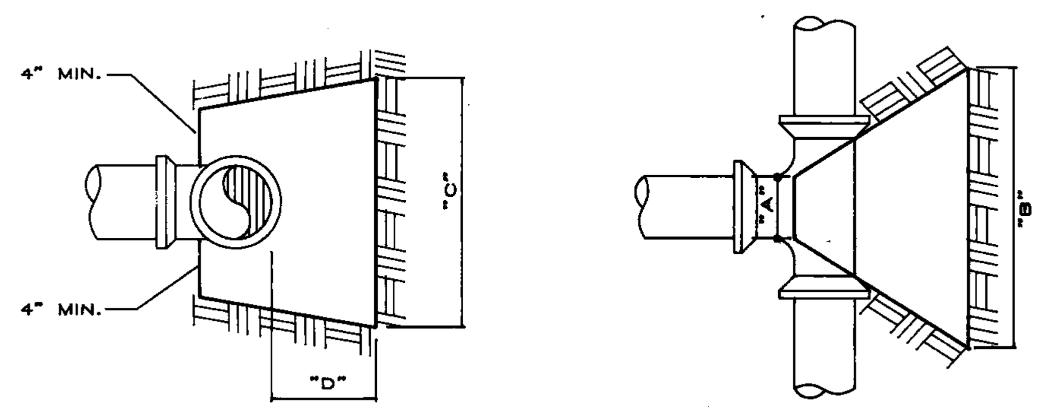
THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA.

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

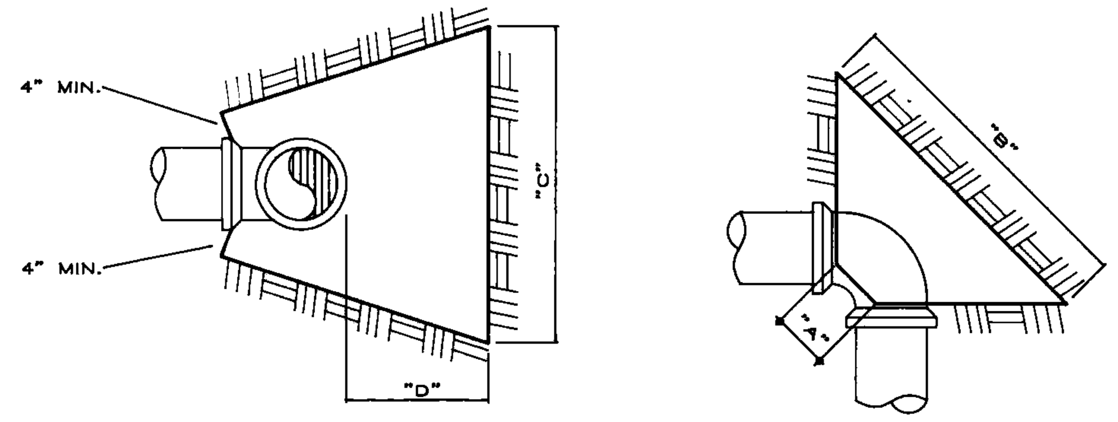
MISCELLANEOUS DETAILS - SITE WORK

No.	Date	Revision

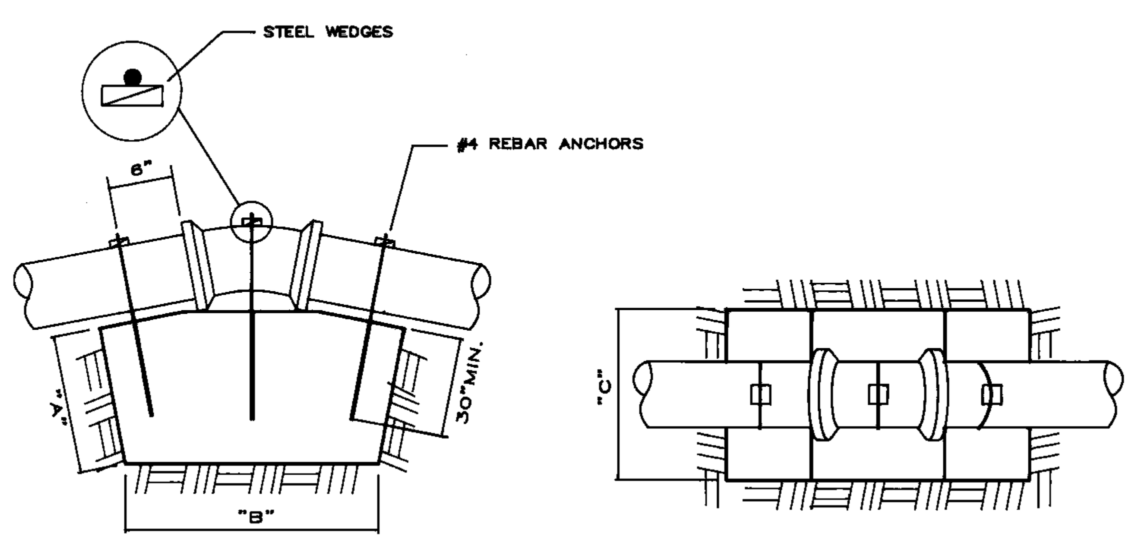
Designed A.D.W.
Drawn E.S.B.
Checked P.M.M.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 13



DETAIL OF HORIZONTAL & VERTICAL TEE



DETAIL OF HORIZONTAL & VERTICAL BENDS



DETAIL AT VERTICAL SUMMIT BENDS

DETAILS OF CONCRETE THRUST BLOCKS

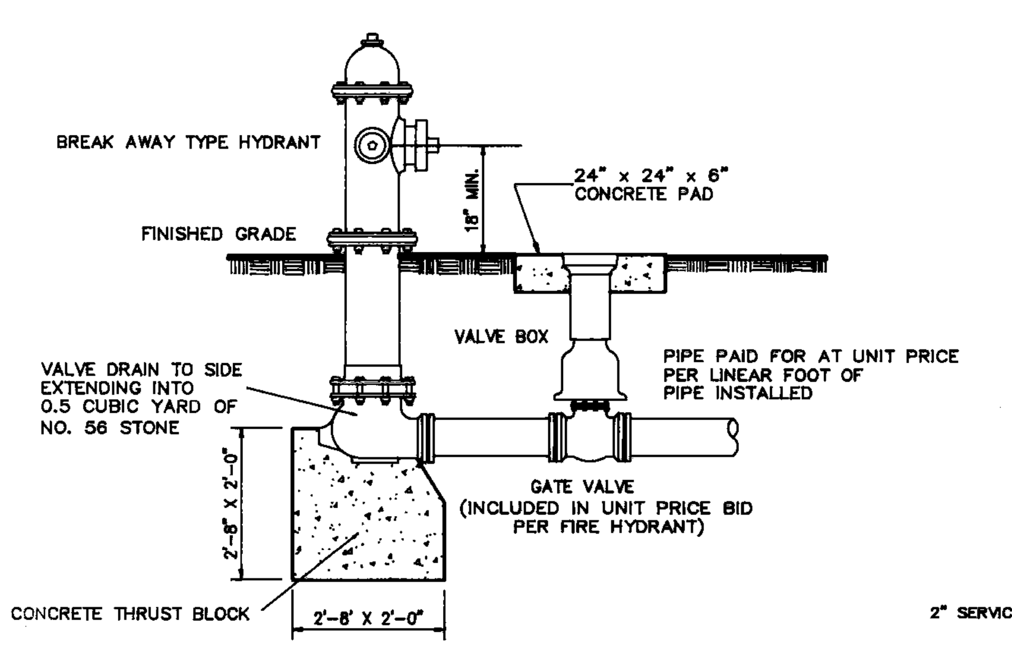
NOT TO SCALE

THRUST BLOCK DATA

WORKING PRESSURE : 150 P.S.I.																						
PIPE SIZE	TEES & DEADENDS				90 ° BENDS				45 ° BENDS				22 1/2 ° BENDS				11 1/4° BENDS				VALVES		
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C
6"	12"	2'8"	1'8"	12"	12"	2'10"	2'4"	1'6"	6"	2'4"	1'6"	12"	6"	1'3"	1'6"	8"	6"	12"	1'2"	6"	1'8"	12"	6"

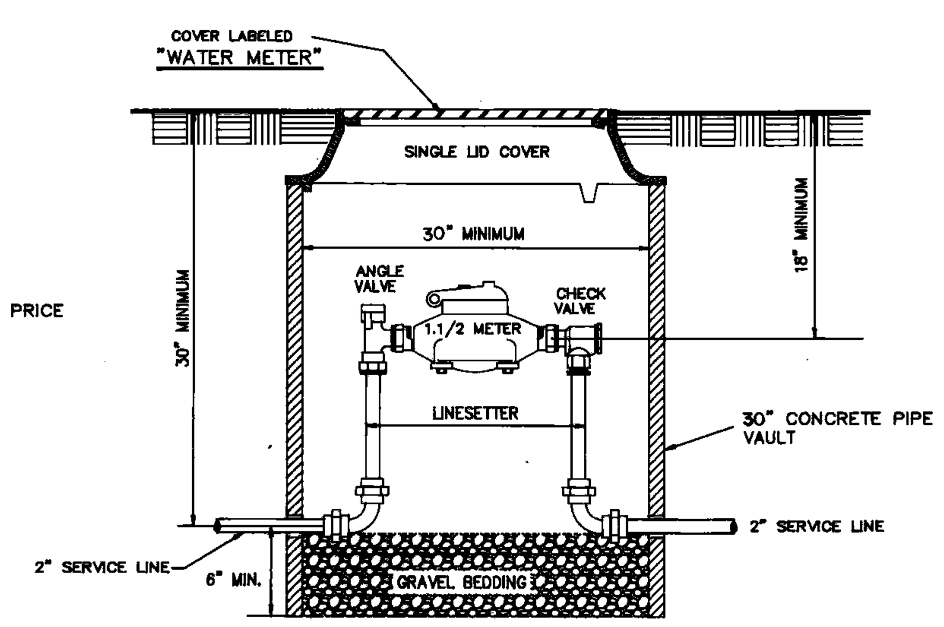
THRUST BLOCKS ARE DESIGNED FOR A WORKING PRESSURE AS SHOWN IN THE TABLES AND AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. IF PRESSURES AND SOIL BEARING VALUES DO NOT FALL WITHIN THESE LIMITS, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLATION OF THRUST BLOCKS.

VERTICAL SUMMIT BENDS THRUST BLOCK DATA – ALL CLASSES										
PIPE SIZE	11 1/4°			22 1/2°			45°			REBARS
	A	B	C	A	B	C	A	B	C	
6"	2'10"	2'10"	2'4"	3'10"	3'10"	3'4"	4'6"	4'6"	4'0"	3 – NO. 4



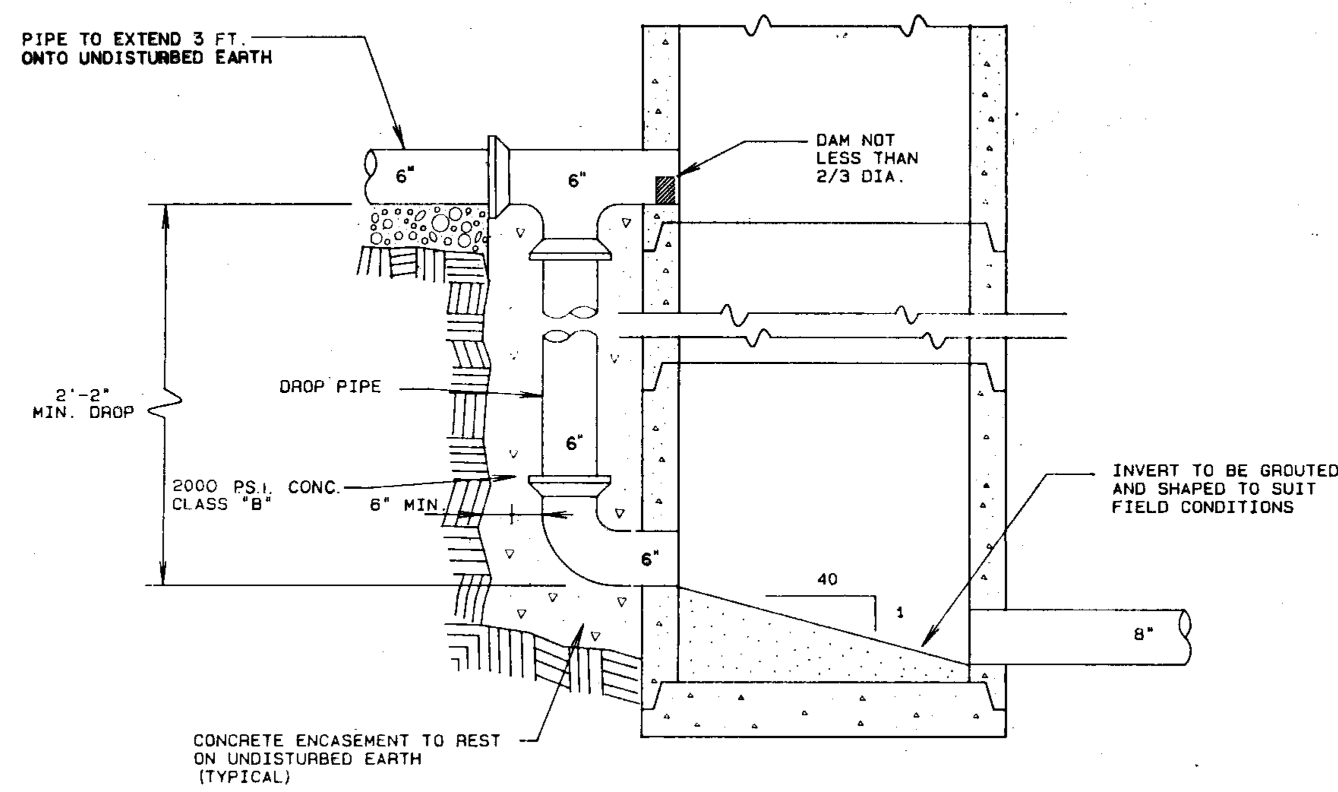
DETAIL OF FIRE HYDRANT

NOT TO SCALE



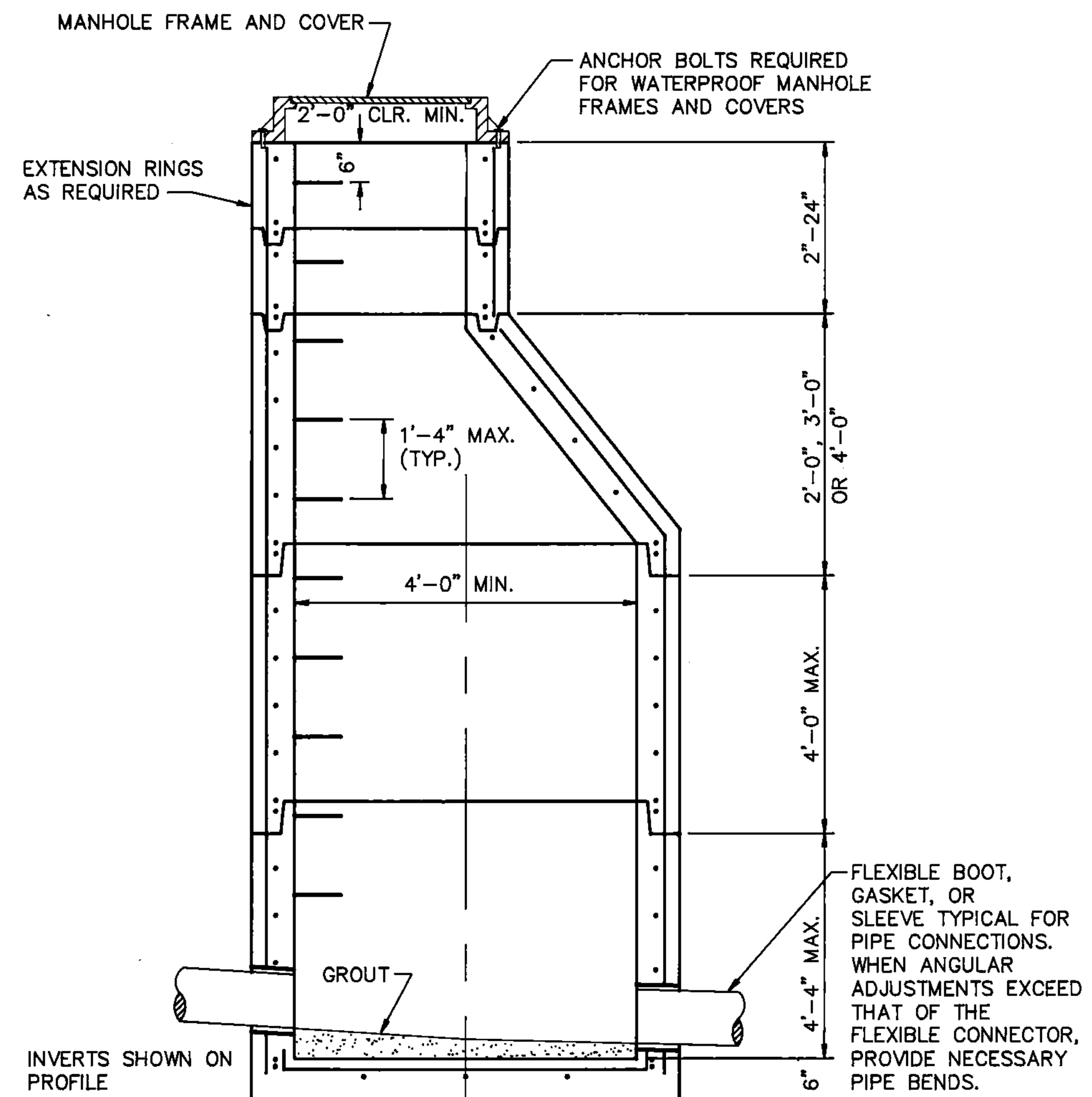
DETAIL TYPICAL 1 1/2" METER SETTING

NOT TO SCALE



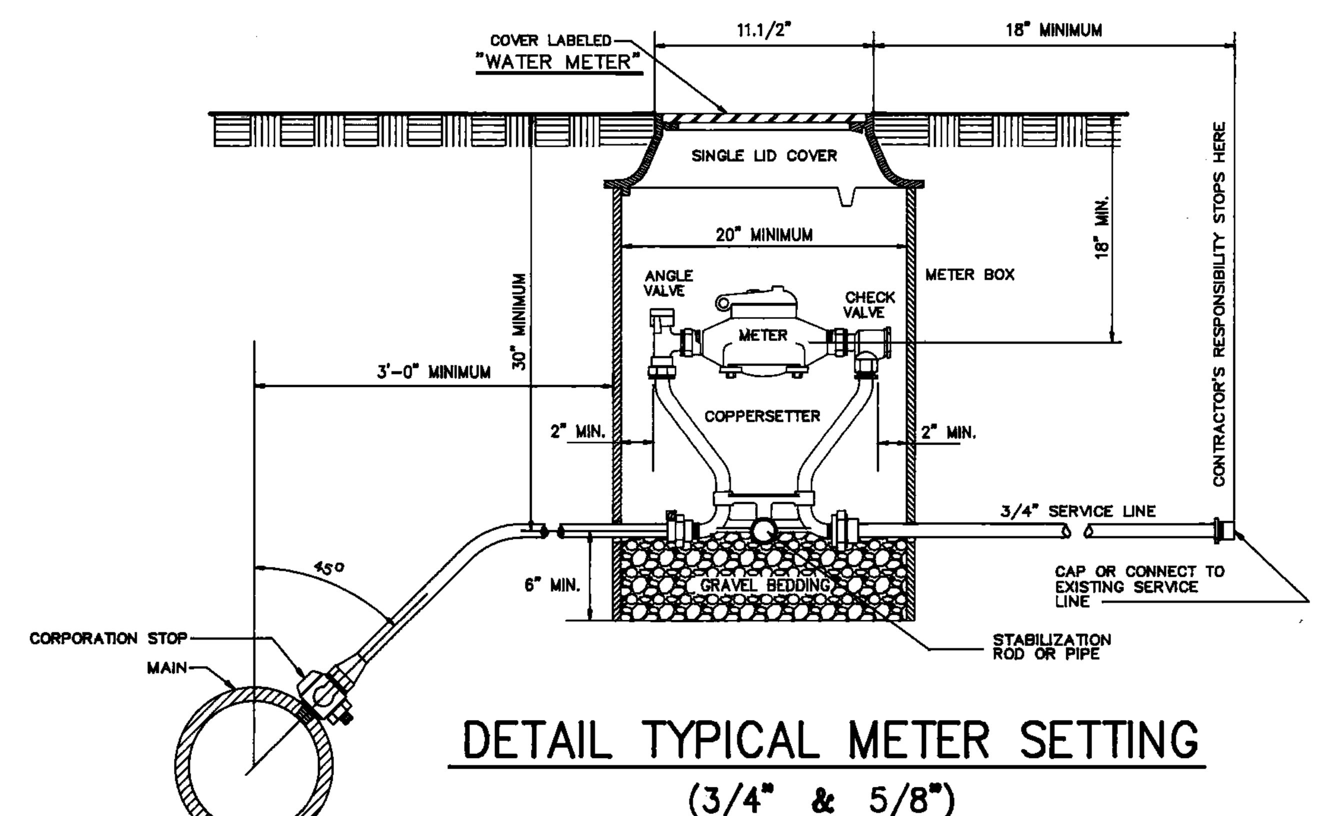
DETAIL – DROP MANHOLE

N.T.S.



PRECAST MANHOLE WITH MONOLITHIC BASE

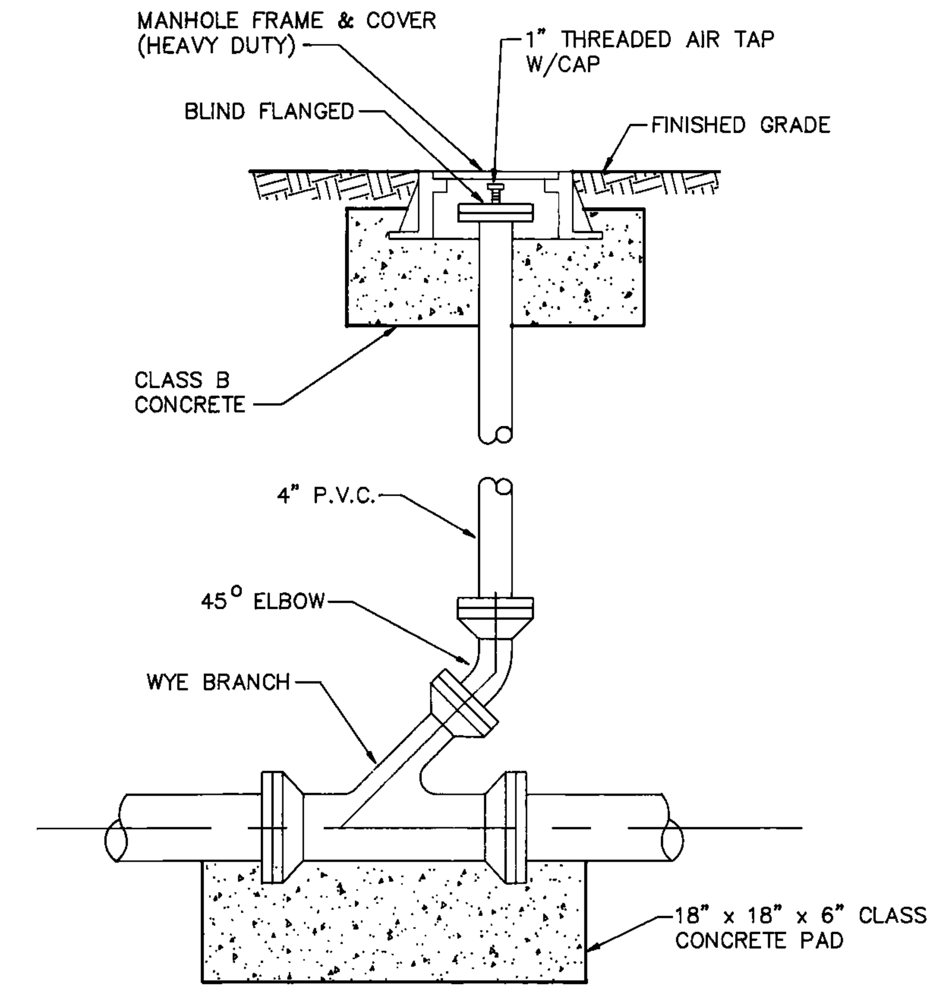
NOT TO SCALE



DETAIL TYPICAL METER SETTING

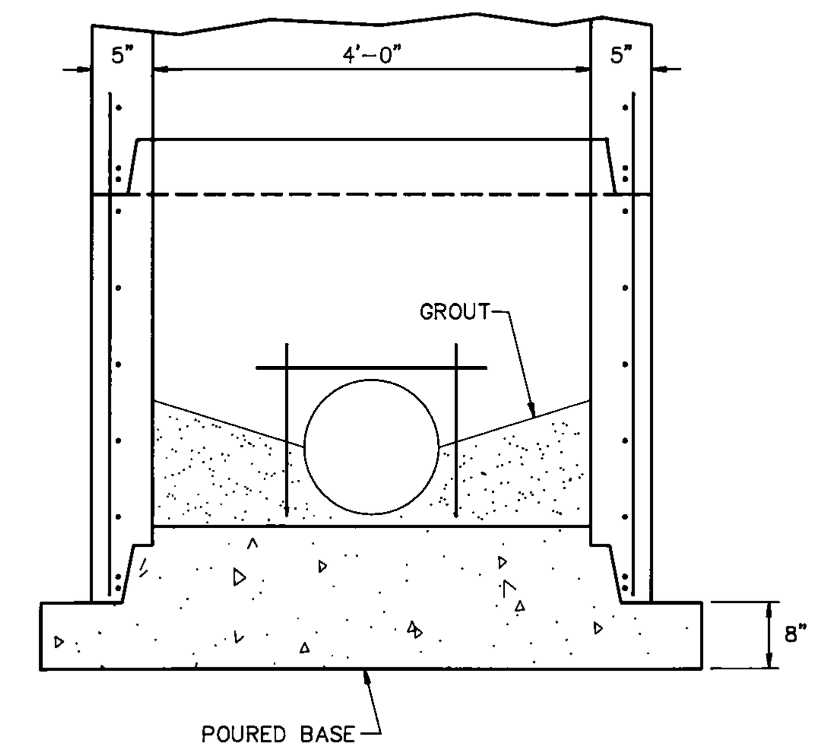
(3/4" & 5/8")

NOT TO SCALE



DETAIL OF CLEANOUT

NOT TO SCALE

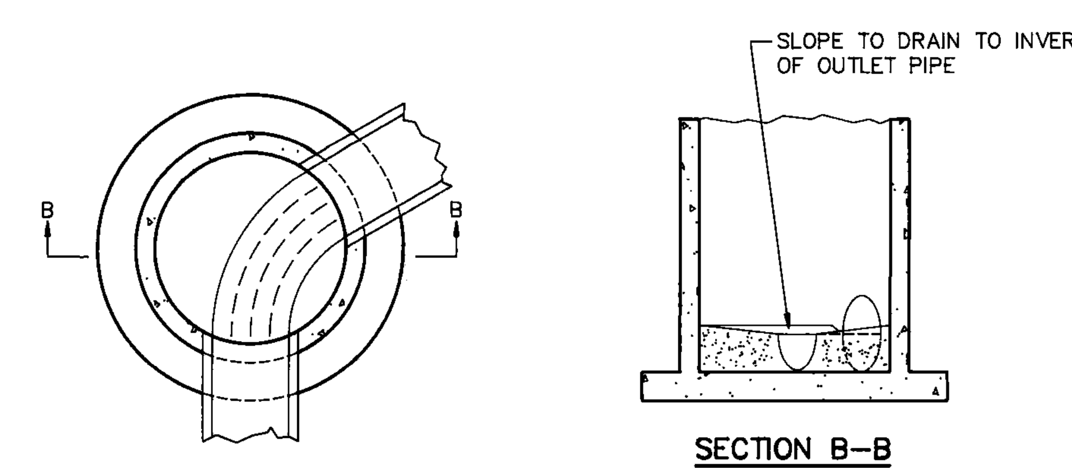


STANDARD PRECAST MANHOLE W/CAST–IN–PLACE BASE

NOT TO SCALE

NOTES:

1. SHAPING OF MANHOLE AND INLET INVERTS IN ACCORDANCE WITH THIS DRAWING IS TO APPLY TO THOSE STRUCTURES SPECIFIED ON PLANS. THE COST OF FURNISHING AND PLACING ALL MATERIALS IS TO BE INCLUDED IN THE PRICE BID FOR THE PARTICULAR DROP INLET COMPLETE, AND/OR VERTICAL FEET OF MANHOLE.
2. MANHOLE OR DROP INLET IS TO BE FORMED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARD OR SPECIAL DRAWING. THE INVERT SHAPING AS DETAILED HEREON IS TO CONSIST OF A PORTLAND CEMENT CONCRETE MIX CONFORMING TO A CLASS A OR CLASS C, EXCEPT THAT 25% OF COARSE AGGREGATE MAY BE UP TO 4" IN DIAMETER AND CONSIST OF STONE, BROKEN BRICK, BROKEN CONCRETE OR BROKEN CONCRETE BLOCK. THE SURFACE SHALL BE LEFT SMOOTH BY MEANS OF HAND TROWELLING. NONE OF THE COARSE AGGREGATE SHALL REMAIN EXPOSED.
3. DETAILS OF INVERT SHAPING AS SHOWN HEREON ARE FOR EXAMPLE PURPOSES ONLY. EACH MANHOLE OR DROP INLET IS TO BE SHAPED INDIVDUALLY TO BEST FIT THE PARTICULAR INLET AND OUTLET CONFIGURATION AND FLOW LINES.
4. A 1" GAP SHALL BE MAINTAINED BETWEEN THE GROUTED CHANNEL AND THE SEWER PIPE AT BOTH THE MANHOLE INLET AND OUTLET. GROUT SHOULD NOT COME INTO CONTACT WITH THE SEWER PIPE.



SECTION B–B

STANDARD SHAPING OF MANHOLE INVERTS

NOT TO SCALE

COMMONWEALTH OF VIRGINIA
PATRICK M. MURPHY
No. 15205
3-19-93
CERTIFIED PROFESSIONAL ENGINEER

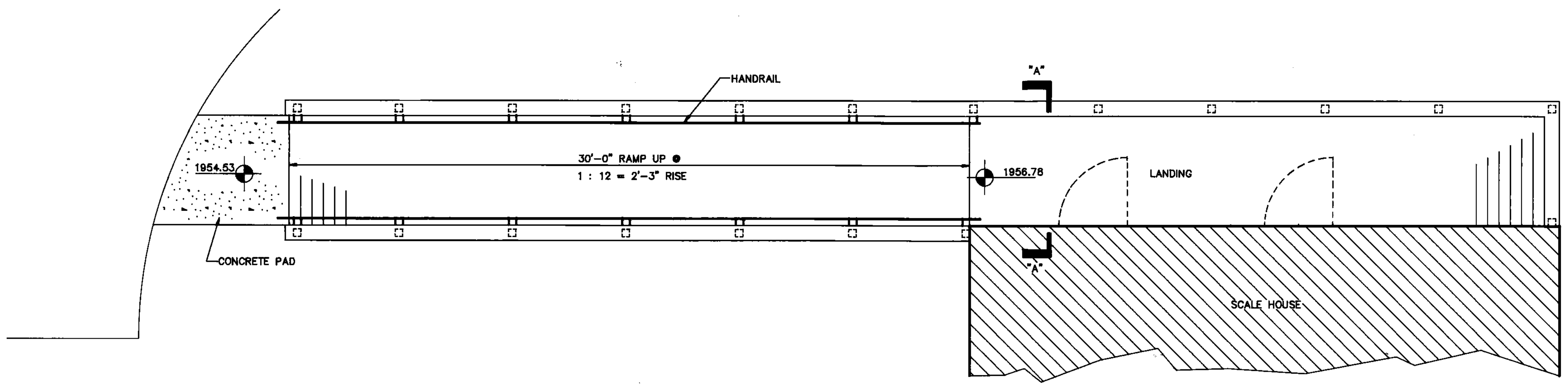
THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

MISCELLANEOUS DETAILS - WATER & SEWER

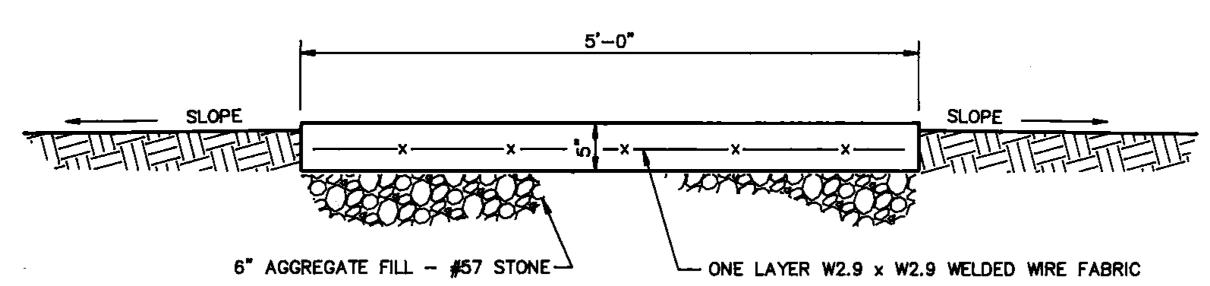
No	Date	Revision

Designed A.D.W.
Drawn E.S.B.
Checked P.M.M.
Date MARCH 1993
File No.
Project No. 5127-00
Sheet No. 14



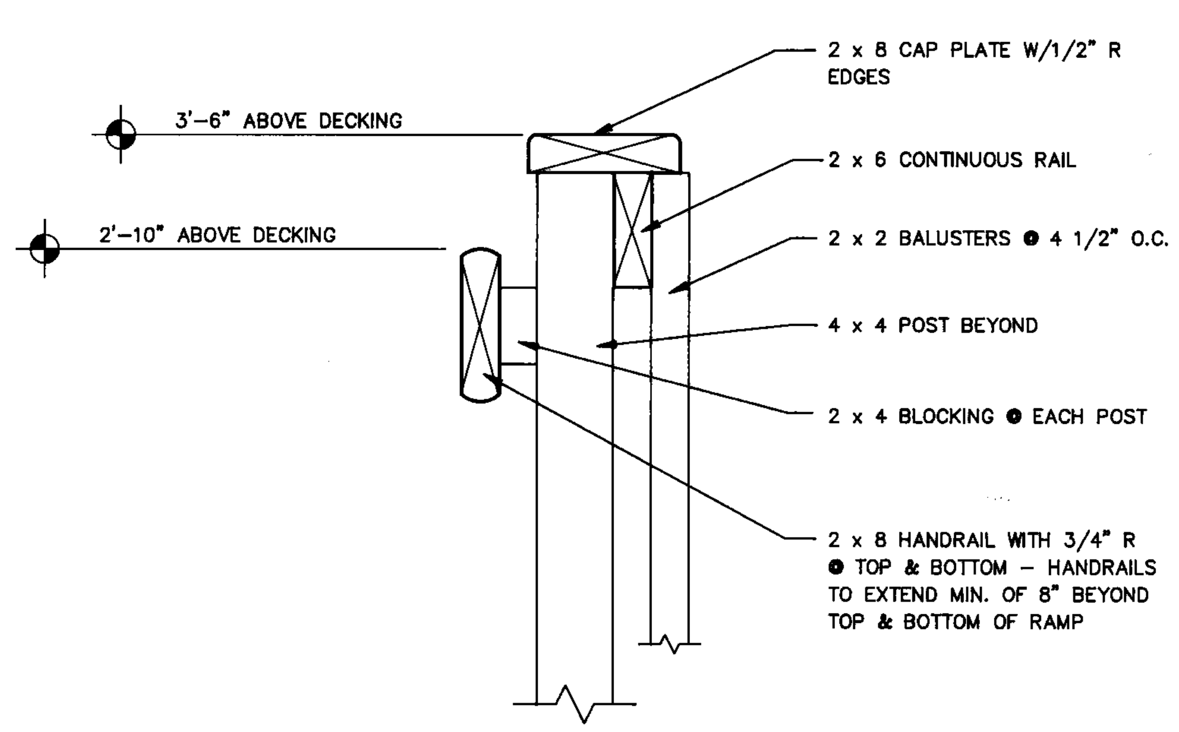
PLAN – HANDICAP ENTRANCE @ SCALE HOUSE

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



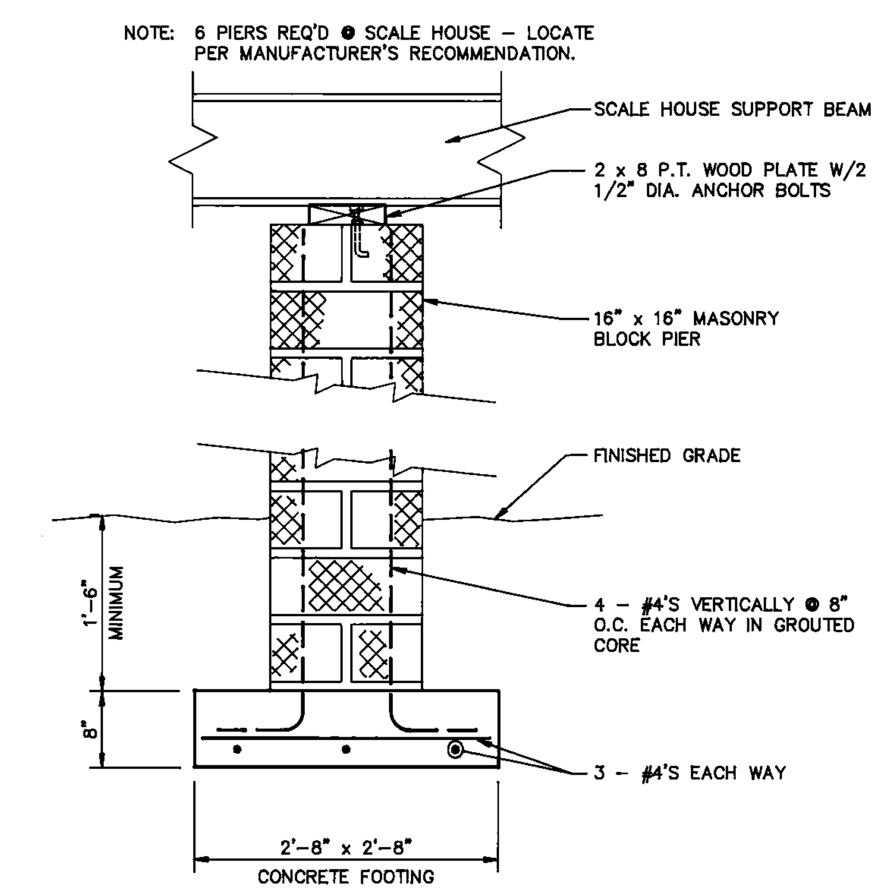
TYPICAL SECTION – CONCRETE PAD

NOT TO SCALE



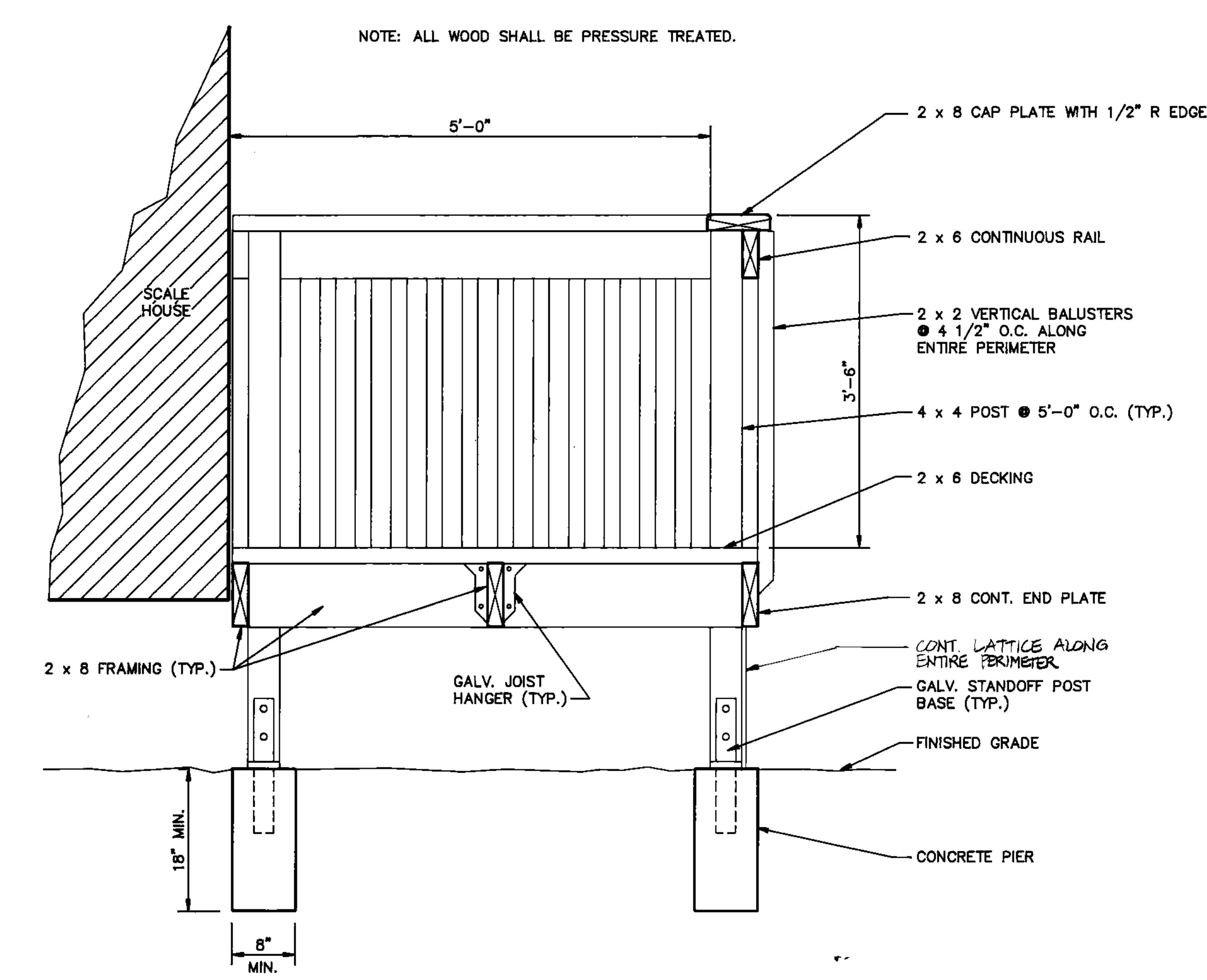
TYPICAL SECTION – HANDRAIL

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



TYPICAL DETAIL – SCALE HOUSE PIER/FOOTING

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



TYPICAL SECTION – LANDING ("A" –"A")

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

COMMONWEALTH OF VIRGINIA
TIMOTHY A. CARL
No. 007936
3/15/93
ARCHITECT

THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ■ WISE, VA.

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

MISCELLANEOUS DETAILS - SCALE HOUSE

No.	Date	Revision

Designed TAC
Drawn E.S.B.
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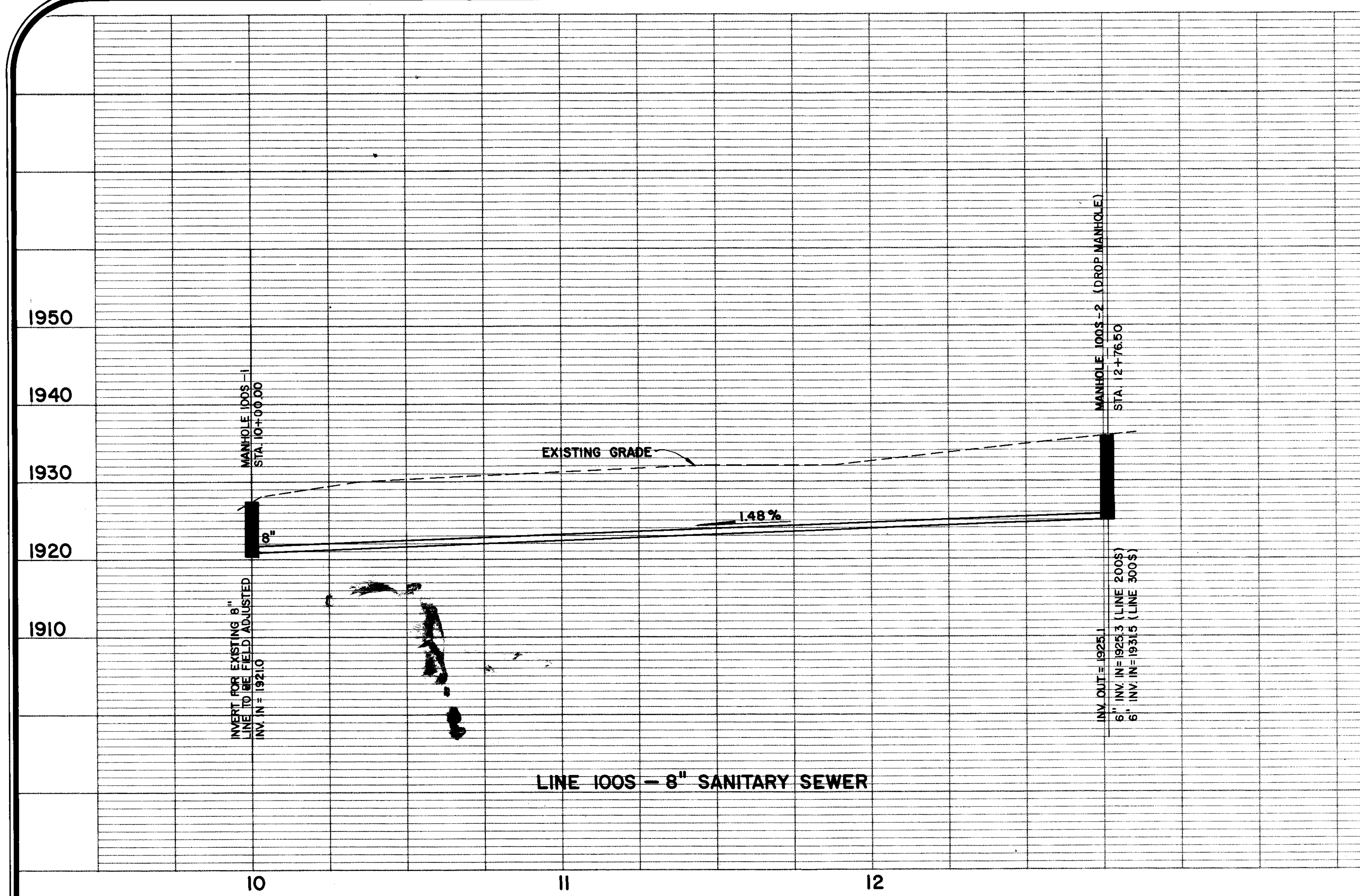
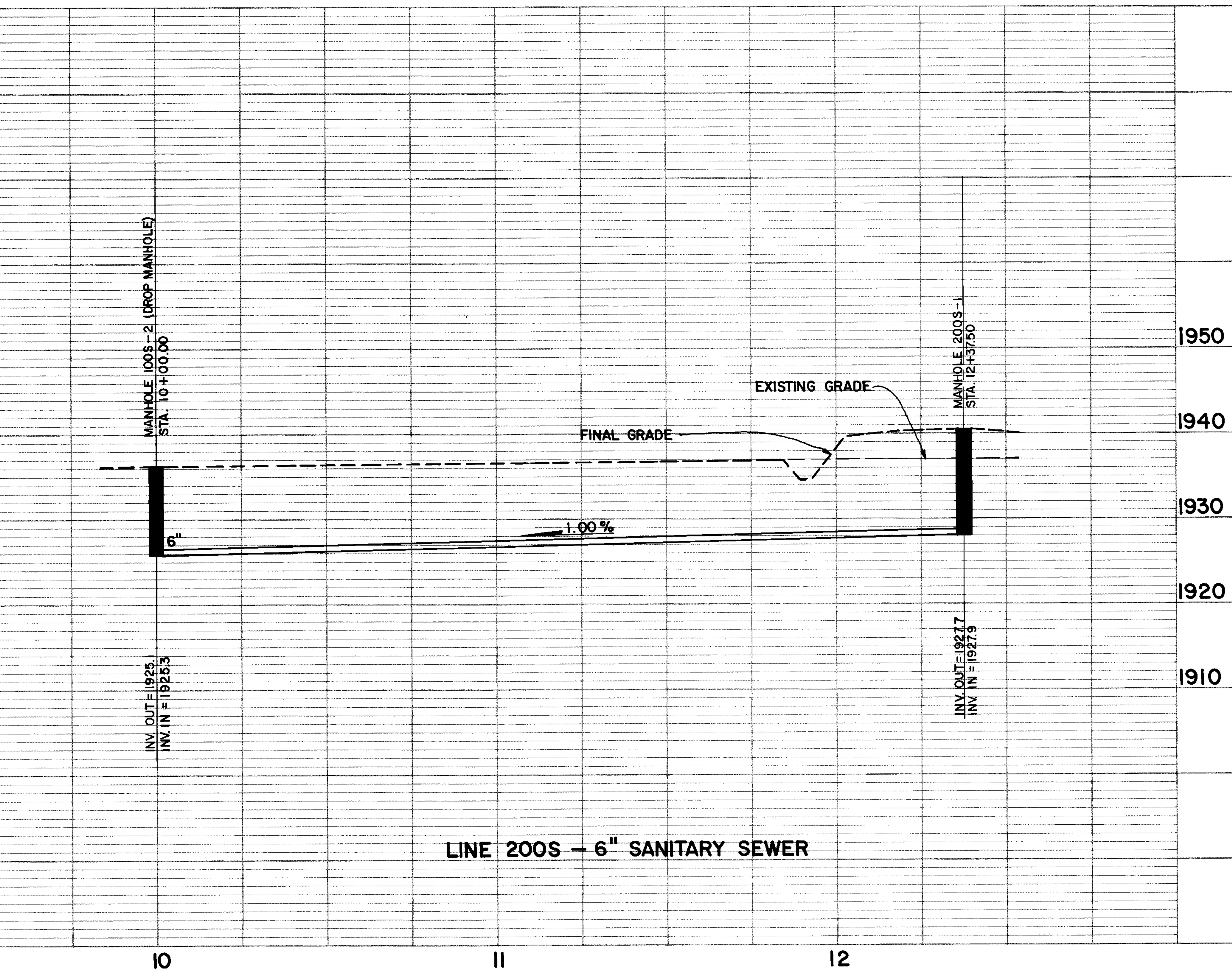
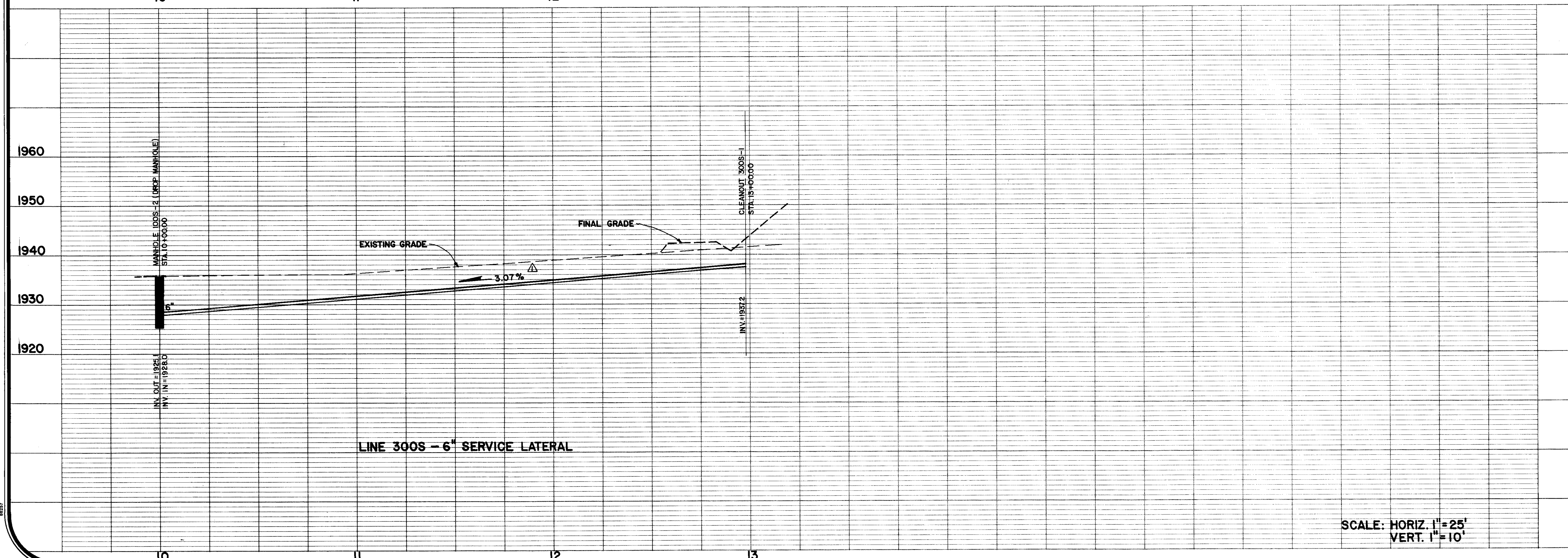
5127-00

Sheet No.
15







COMMONWEALTH OF VIRGINIA
PATRICK M. MURPHY
No. 15205
3-19-93
CERTIFIED PROFESSIONAL ENGINEER

THOMPSON & LITTON, INC.
ENGINEERS, ARCHITECTS, PLANNERS ◻ WISE, VA

WASHINGTON COUNTY
SOLID WASTE TRANSFER STATION

PROFILES - LINES 100S, 200S, & 300S

No.	Date	Revision
1	5/12/93	E.S.I. #1

Designed T.O.P.
Drawn Jay
Checked P.M.M.
Date MARCH 1993
File No.

Project No.
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Sheet No.
16