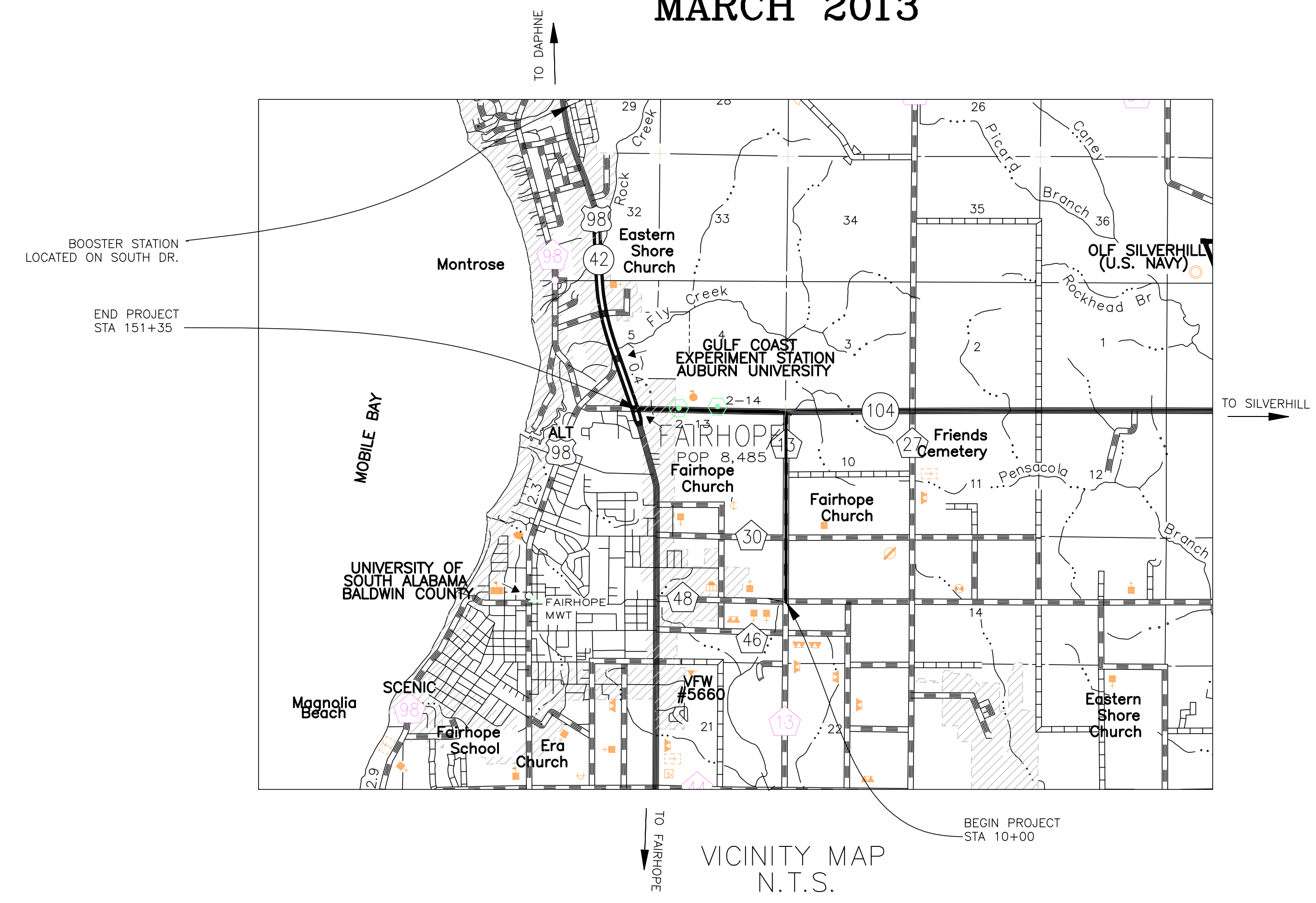


ISSUED FOR BID

CONSTRUCTION PLANS FOR FAIRHOPE PUBLIC UTILITIES FAIRHOPE, ALABAMA

COUNTY ROAD 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND
SOUTH DR. BOOSTER STATION UPGRADE
THOMPSON PROJECT NO. 12-2111-0072
MARCH 2013



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2970 COTTAGE HILL ROAD
MOBILE, ALABAMA 36606
TEL: (251) 666-2443

Drawing name: \\Ad14102\storage\Projects\2012\2111-0072 Fairhope Water Main to Rock Creek\Civil\Drawings\Plan Plot Sheets\C0_0_Coversheet.dwg Plotted on: Mar 18, 2013 - 3:19pm

GENERAL NOTES

- THE EXACT LOCATION OF EXISTING STRUCTURES, UTILITIES AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THE DRAWINGS DO NOT PURPORT TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND PIPES WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATIONS OF THE SEWER LINE TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES OR PIPING. ANY SIGNIFICANT CHANGES SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVES PRIOR TO PLACEMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE BY HIS EQUIPMENT TO EXISTING UTILITIES, CROSS-DRAIN PIPES AND HEADWALLS AND SHALL REPAIR DAMAGE AT NO COST TO THE OWNER.
- ALL PROPERTY LINE MARKERS (IRON PINS, CONCRETE MONUMENTS, ETC.) DESTROYED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA TO RESET PROPERTY MARKERS.
- ALL ROADWAY SHOULDERS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO AS GOOD OR BETTER CONDITION IN ACCORDANCE WITH THE SPECIFICATIONS IMMEDIATELY AFTER PIPE IS IN PLACE.
- ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS. CONTRACTOR SHALL TAKE EVERY NECESSARY PRECAUTION TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. ALL EXCAVATION, SHORING, AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXPLORE AHEAD AT LEAST 50 FEET SO THAT CONFLICTS CAN BE IDENTIFIED AND ADDRESSED IN A TIMELY MANNER. DOWN TIME WILL ONLY BE PAID IF THE ENGINEER AND THE OWNER CONCLUDE THAT THE CONTRACTOR WAS PROACTIVE IN HIS ATTEMPTS TO IDENTIFY POTENTIAL CONFLICTS AND THAT THE CONFLICT WAS DUE TO UNFORESEEN CONDITIONS.
- ALL EXCESS MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL STANDARD REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOWS THROUGH EXISTING PIPING AND STRUCTURES AND DIVERSION OF FLOWS AS NECESSARY DURING CONSTRUCTION UNDER THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST TO THE OWNER ALL NECESSARY LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS AS REQUIRED TO ACCOMPLISH THE INTENT OF WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SOIL FROM ERODING INTO CREEKS, BRANCHES, STREAMS, STORM DRAINS OR ON PRIVATE PROPERTY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DIVERSION OF STORMWATER RUN-OFF ONTO PRIVATE PROPERTY BY USE OF TEMPORARY EROSION CONTROL MEASURES, SUCH AS SILT FENCES AND HAYBALES. THE CONTRACTOR SHALL NOT DEPOSIT ANY MATERIAL ON PRIVATE PROPERTY ADJACENT TO THE PROJECT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES CAUSED BY SEDIMENT OR ANY OTHER ERODIBLE MATERIALS BEING DEPOSITED ONTO ADJACENT PROPERTY.
- ALL WATER RELATED WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. WATER REPRESENTATIVES WILL REGULARLY VISIT THE SITE TO REVIEW WORK UNDERWAY. ANY COMMENTS OR INSTRUCTIONS FROM THE REPRESENTATIVE WILL BE ISSUED THROUGH THE ENGINEER TO THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE, IF NEEDED A DEWATERING SYSTEM. COST FOR DEWATERING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF THE PIPE FLOATS DURING CONSTRUCTION, CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE.
- A PROPERTY RESTORATION CREW, EMPLOYED BY THE CONTRACTOR, SHALL PROCEED IMMEDIATELY BEHIND THE PIPE LAYING CREW TO RESTORE PRIVATE PROPERTY AND/OR PUBLIC RIGHT-OF-WAY TO A PRE-CONSTRUCTION CONDITION. NO EXTRA PAY FOR THIS ITEM.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. A MINIMUM OF ONE (1) LANE SHALL REMAIN OPEN AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL HOMES OR BUSINESSES DURING CONSTRUCTION. NO OPEN EXCAVATIONS SHALL BE LEFT UNATTENDED WITHIN ANY STREET, ROAD OR HIGHWAY RIGHT-OF-WAY. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- NO WORK SHALL BE COMPLETED WITHIN THE COUNTY RIGHT-OF-WAY WITH OUT A COUNTY RIGHT-OF-WAY PERMIT. OBTAINING SUCH PERMIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION/REPLACEMENT OF ALL SIGNAGE, MAIL BOXES, AND OTHER OBSTRUCTIONS ASSOCIATED WITH INSTALLATION OF THE WATER MAIN. ALL REMOVAL AND REINSTALLATION/REPLACEMENT OF OBSTRUCTIONS DESCRIBED IN THIS NOTE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR SHALL CONTACT ALABAMA ONE-CALL PRIOR TO ANY UNDERGROUND UTILITY WORK TO VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER WILL MAKE THE NECESSARY ADJUSTMENTS IN ALIGNMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVATION AND/OR REPLACEMENT OF VEGETATION WITH LIKE SPECIES (I.E. BUSHES, TREES, ETC.) AND THE RESTORATION OF ANY GROUND COVER WITH LIKE SPECIES DISTURBED DURING CONSTRUCTION.
- CONTRACTOR MAY OPEN OR CLOSE VALVES ONLY IN THE PRESENCE OF AN AUTHORIZED FAIRHOPE UTILITIES REPRESENTATIVE.
- WATER SERVICE INTERRUPTIONS MUST BE PLANNED TO MINIMIZE THE IMPACT ON FAIRHOPE UTILITIES CUSTOMERS AND TIME OUT OF SERVICE.
- WATER SHUTDOWNS SHALL BE SCHEDULED TUESDAY-THURSDAY FROM 9-4. EXCEPTIONS MAY BE CONSIDERED ON A CASE-BY-CASE BASIS.
- THE CONTRACTOR IS REQUIRED TO NOTIFY FAIRHOPE UTILITIES SUPERINTENDENT AT LEAST 72 HOURS (3 WORKING DAYS) PRIOR TO A PLANNED SHUTDOWN.
- A FAIRHOPE UTILITIES INSPECTOR OR AUTHORIZED REPRESENTATIVE SHALL OBSERVE ALL SHUTDOWNS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS (3 WORKING DAYS) NOTICE TO THE FAIRHOPE UTILITIES INSPECTOR FOR A WET TAP ON A PRESSURIZED LINE. AN AUTHORIZED FAIRHOPE UTILITIES REPRESENTATIVE SHALL OBSERVE ALL WET TAPS.
- THE CONTRACTOR IS RESPONSIBLE FOR OPENING ALL NEW VALVES.
- THE INDIVIDUAL WHO CLOSES A VALVE IS RESPONSIBLE FOR MAKING SURE THAT THE VALVE IS REOPENED. THE VALVE LOCATION, NAME(S) OF THE INDIVIDUAL WHO OPERATED THE VALVE, DATE, AND TIME THAT THE VALVE WAS OPENED AND CLOSED MUST BE RECORDED.
- THE CONTRACTOR SHALL FLUSH ALL NEW LINES UNTIL A FAIRHOPE UTILITIES REPRESENTATIVE DETERMINES THAT THE LINE IS CLEAN AND FLUSHING MAY END. THE CONTRACTOR WILL BE PAID FOR FLUSHING AS SPECIFIED ON THE BID SHEET.
- THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.
- PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWER, STORM DRAINS, WATER OR GAS PIPES, ELECTRICAL CONDUITS, POLES, WALLS, POSTS, ETC., ARE TO BE CAREFULLY PROTECTED AND ARE NOT TO BE DISPLACED, UNLESS NOTED.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE AND POWER COMPANIES 10 DAYS IN ADVANCE THAT HE INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE OR RIGHT-OF-WAY.
- CONTRACTOR SHALL DISPOSE OF BY HAULING AWAY ALL EXCESS MATERIAL.
- P.V.C. PIPE FOR WATER SHALL BE AWWA C-900/C-905, MIN. PRESSURE CLASS OF 150 PSI AND 160 PSI, RESPECTIVELY. STEEL CASING PIPE SHALL BE MINIMUM ASTM A-139 GRADE B, POLYETHYLENE PIPE SHALL BE DR11, MIN. PRESSURE CLASS 160 PSI. OPERATING PRESSURES IN THE RANGE OF 65-70 PSI.
- WATER SUPPLY FACILITIES, INCLUDING MAINS, SHALL BE INSTALLED, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS AND COORDINATED WITH FAIRHOPE INSPECTOR AND QUALITY CONTROL SUPERVISOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AND COMPLY WITH ANY TESTING REQUIRED BY THE LOCAL GOVERNING AGENCY IN ADDITION TO THE TESTING REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.
- GRADING AROUND TREES WHICH ARE TO REMAIN SHALL BE AWAY FROM THE TREE IN A MANNER TO CAUSE NO DAMAGE TO THE TREE.
- A MINIMUM SEPARATION OF 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES. IF THIS SEPARATION IS NOT POSSIBLE, THE SEWER LINE MUST BE ENCASED IN CONCRETE.
- WATERLINE ENCASUREMENTS SHALL EXTEND A MINIMUM OF THREE FEET BEYOND EDGE OF PAVEMENT OR BACK OF CURB.
- UNCLASSIFIED EXCAVATION AND BORROW EXCAVATION REQUIRED FOR PIPELINE INSTALLATION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT ALDOT SPECIFICATIONS. UNCLASSIFIED EXCAVATION SHALL BE A SUBSIDIARY OBLIGATION OF PIPELINE INSTALLATION. BORROW EXCAVATION HAS BEEN PROVIDED AS A CONTINGENCY ON THE BID SHEET SHOULD UNSUITABLE SOILS BE ENCOUNTERED. PLACEMENT OF BORROW SHALL BE AT THE DIRECTION OF THE ENGINEER OR HIS/HER REPRESENTATIVE.




UTILITY NOTES

- PROPOSED WATER MAIN SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT AWWA SPECIFICATIONS.
- CONTRACTOR TO MAINTAIN 36" MIN. COVER OVER PROPOSED WATER MAIN.
- ALL WATER MAIN FITTINGS ARE MECHANICAL JOINT DUCTILE IRON W/MEGALUGS.
- 18 L.F. OF CLASS 51 DUCTILE IRON SHALL BE REQUIRED AT EVERY BEND ON PROPOSED WATER MAIN.
- SEE SHEETS C4.0-C4.1 FOR ALL UTILITY AND CONSTRUCTION DETAILS
- FIRE HYDRANTS, IN-LINE GATE VALVES AND AIR RELIEF VALVES SHALL BE REQUIRED AS SHOWN ON PLANS.
- THRUST BLOCKS SHALL BE CONSTRUCTED AT EVERY BEND, VALVE AND HYDRANT ASSEMBLY. SEE DETAIL SHEETS FOR CONSTRUCTION INFORMATION.
- PROPOSED AIR RELIEF VALVES SHOWN ON PLANS SHALL BE APCO 4" MODEL NO. 149C COMBINATION AIR VALVES.
- CHLORINE SHALL BE SUPPLIED BY THE CONTRACTOR. BACTERIOLOGICAL TESTS WILL BE PERFORMED BY THE OWNER. CHLORINE CONCENTRATIONS SHALL BE BETWEEN 50 AND 100 PPM SUCH THAT A MINIMUM RESIDUAL CONCENTRATION OF 25MG/L WILL BE LEFT AFTER A 24 HOUR RETENTION PERIOD. OPERATION SHALL BE REPEATED AS NECESSARY TO PROVIDE COMPLETE DISINFECTION. AFTER RETENTION PERIOD, CHLORINATED WATER SHALL BE FLUSHED.

ALDOT NOTES

- ALL METERS ARE TO BE INSTALLED OFF OF ALDOT RIGHT-OF WAY.
- ALL MANHOLES, VALVE BOXES, AND HAND HOLES SHOULD BE FLUSH WITH EXISTING GROUND.
- CONTACT DISTRICT MANAGER 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY. THE DISTRICT ENGINEERS FOR THE NINTH DIVISION ARE AS FOLLOWS:
(1) MOBILE COUNTY - CHARLY D. JONES JR., (251) 470-8209
(2) BALDWIN COUNTY - FRANKIE SMITH, (251) 937-2086
(3) ESCAMBIA AND CONECUH COUNTIES - BRENT MADDOX, (251) 578-7553
- WRITE LETTER REQUESTING TO MEET WITH DISTRICT MANAGER UPON COMPLETION OF PERMITTED WORK TO EVALUATE PUNCH LIST FOR COMPLETION OF PROJECT.
- IF APPLICABLE, THE BOND ASSOCIATED WITH THE PERMIT WILL BE GOOD FOR ONE FULL YEAR AFTER THE WORK IS ACCEPTED BY THE DEPARTMENT.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION. (IF PROJECT NECESSITATES LANE CLOSURE, LANE CLOSURE MUST BE MADE PART OF THE PERMIT.)
- ONSITE REPRESENTATIVES & CONTACT INFORMATION (TBD UPON CONTRACTOR SELECTION)
- ONSITE REPRESENTATIVES WILL HAVE ON HAND, AT ALL TIMES:
(1) APPROVED PERMIT AND PLANS STAMPED BY THE DIVISION ENGINEER
(2) TRAFFIC CONTROL PLANS (IN ACCORDANCE WITH APPLICABLE ALDOT INDEX NUMBER)
(3) EROSION CONTROL PLANS
- ALL DISTURBED AREAS WILL BE RESODDED OR SEEDED AS DIRECTED BY THE DEPARTMENT OF TRANSPORTATION'S DISTRICT ENGINEER.
- ALL WORK WILL MEET OR EXCEED ALDOT SPECIFICATIONS.
- ALL WORK ON THE ROW WILL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALDOT STANDARD SPECIFICATIONS.
- ELECTRIC POWER AND COMMUNICATION FACILITIES WILL CONFORM WITH THE CURRENT APPLICABLE NATIONAL ELECTRICAL SAFETY CODE
- A BEST MANAGEMENT PLAN SHALL AT MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION WITH A GOOD STAND OF GRASS AND/OR SOD. SILT FENCE, HAY BALES, AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION.
- ALL TREES OVER 4" SHALL NOT BE CUT/REMOVED WITHOUT WRITTEN PERMISSION FROM ALDOT.
- ALL INSTALLATIONS THAT REQUIRE BORE PITS MUST STATE/DEPICT BORE PIT DIMENSIONS.
- ABSOLUTELY NO BORE PITS SHALL BE ALLOWED TO BE UNFILLED AND/OR UNCOVERED OVERNIGHT UNLESS PROTECTED.
- UPON COMPLETION & ANY TIME THEREAFTER, ALDOT RETAINS THE RIGHT TO REQUEST AN AS-BUILT PROFILE ON ANY BURIED UTILITIES IN SAID DEPARTMENT'S ROW.
- WARNING: DO NOT DISTURB SURVEY MARKERS LOCATED ON ALDOT RIGHT-OF-WAY.
- THE AMOUNT OF AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT IS 0.50 ACRE(S).
- WATER LINES WILL CONFORM WITH THE CURRENTLY APPLICABLE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION
- PRESSURE PIPE LINES WILL CONFORM WITH THE CURRENTLY APPLICABLE SECTIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- AS REQUIRED BY ALABAMA ACT 94-487: CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.
- POSTED SPEED LIMIT WITHIN PROJECT BOUNDARIES IS 45 MPH.

LEGEND

- 12" WL —PROPOSED 12" DOMESTIC WATER MAIN
- 16" WL —PROPOSED 16" DOMESTIC WATER MAIN
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED AIR RELIEF VALVE
- SS —EXISTING SANITARY SEWER
- OHUT —EXISTING OVERHEAD UTILITY
- UNGC —EXISTING UNDERGROUND COMMUNICATION

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REV	DESC.	DATE	BY

FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY



218 N. ALSTON ST. TEL: (251) 970-2880
TOLLEY, ALABAMA 36535 FAX: (251) 970-2884

TITLE: AS NOTED	DATE: 11/12	DRAWN BY: MJ	CHECKED BY: LUG	APPROVED BY: MJ
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

GENERAL NOTES

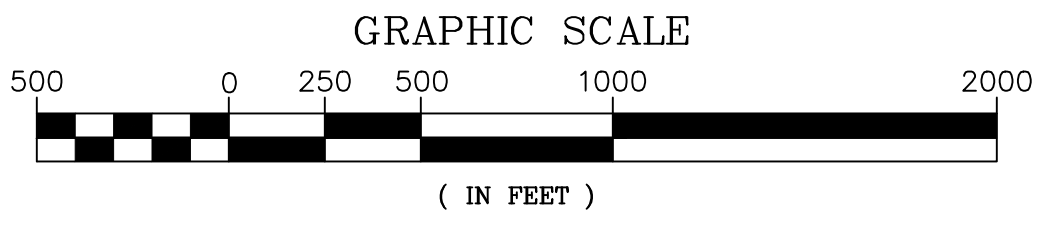
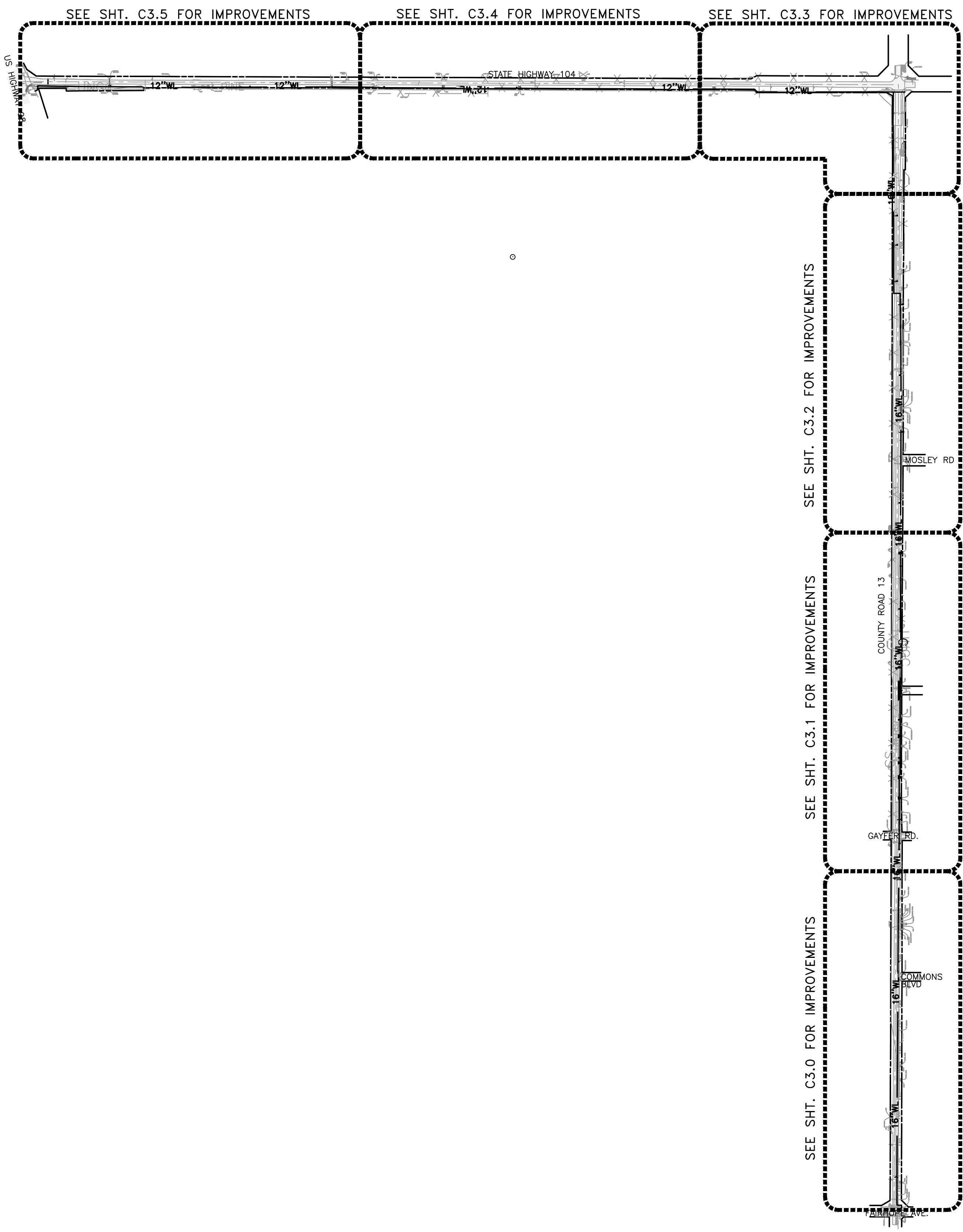
FAIRHOPE UTILITIES CONTACT INFORMATION:

CITY OF FAIRHOPE PUBLIC UTILITIES
555 S. SECTION ST
FAIRHOPE, AL 36533
(251) 928-8003
CONTACT: DAN McCORRY (WATER AND SEWER)
CONTACT: SCOTT SLIGH (GAS & ELECTRIC)

THOMPSON ENGINEERING CONTACT INFORMATION:

MICAH JONES, P.E.
6706--C PLANTATION BLVD.
PENSACOLA, FL 32504
(850) 202-3030

DATE: 11/12	PROJECT NO.: 12-2111-0072	DRAWING NO.: C1.0	REVISION NO.: 0
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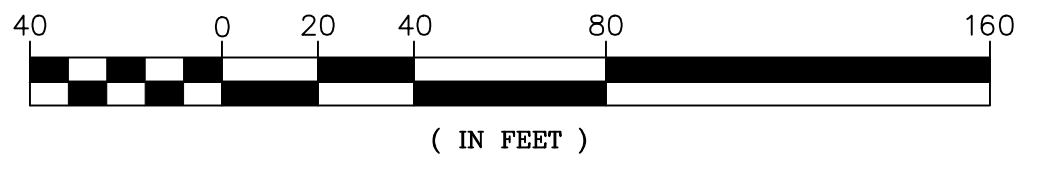
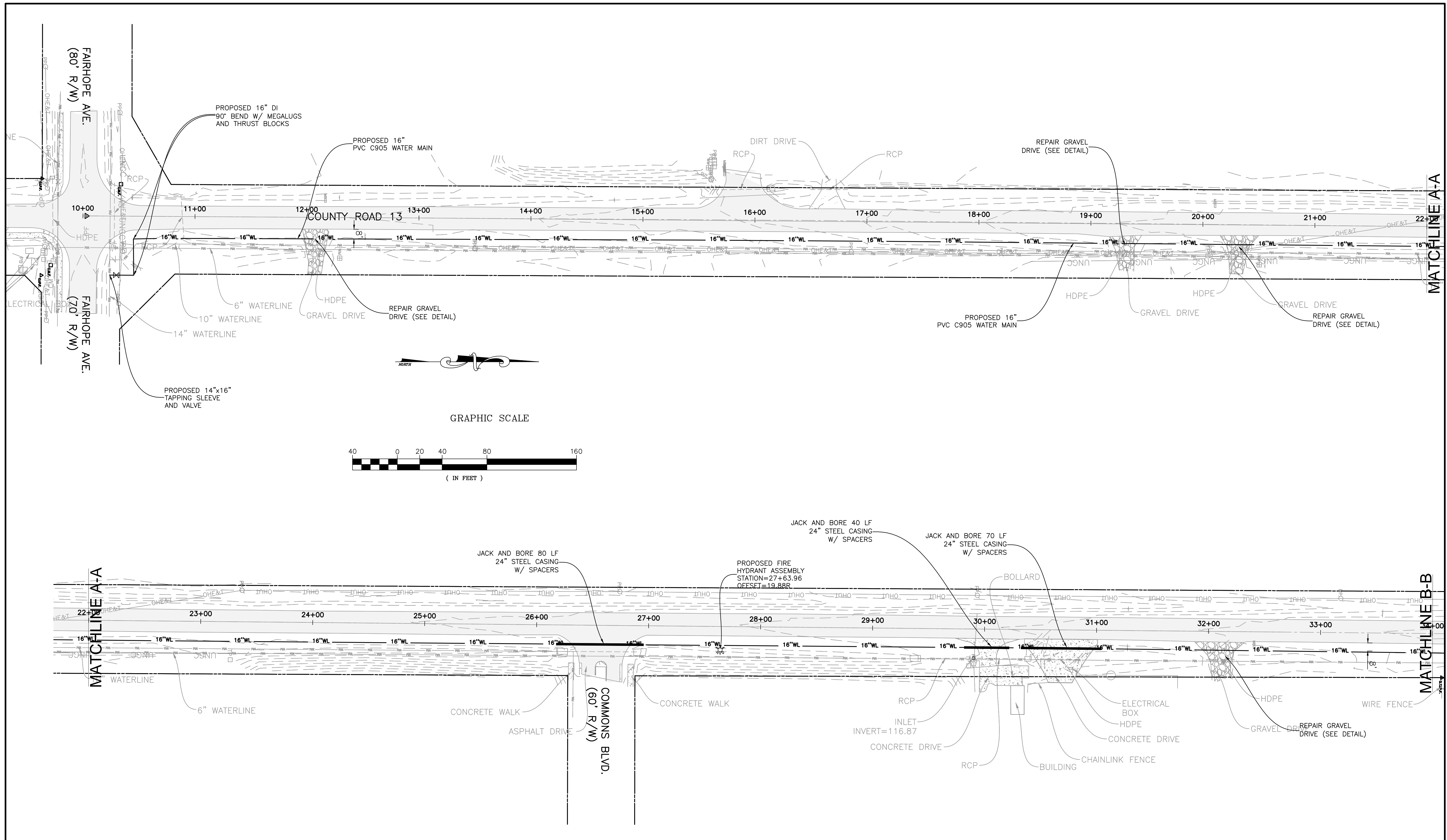
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

KEY SHEET

DATE: 11/12 JOB NO.: 12-2111-0072 DRAWING NO.: C2.0 REVISION NO.: 0



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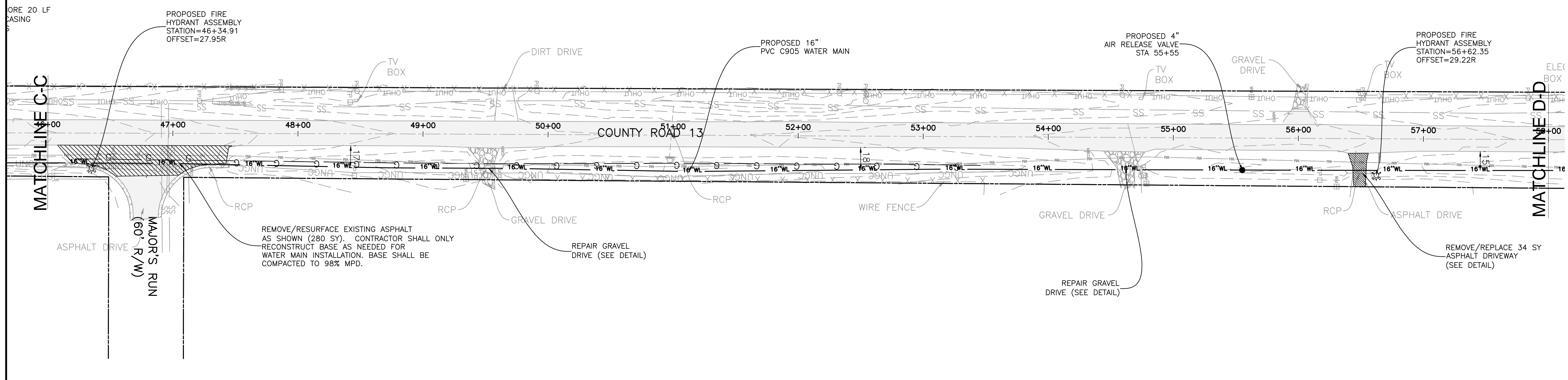
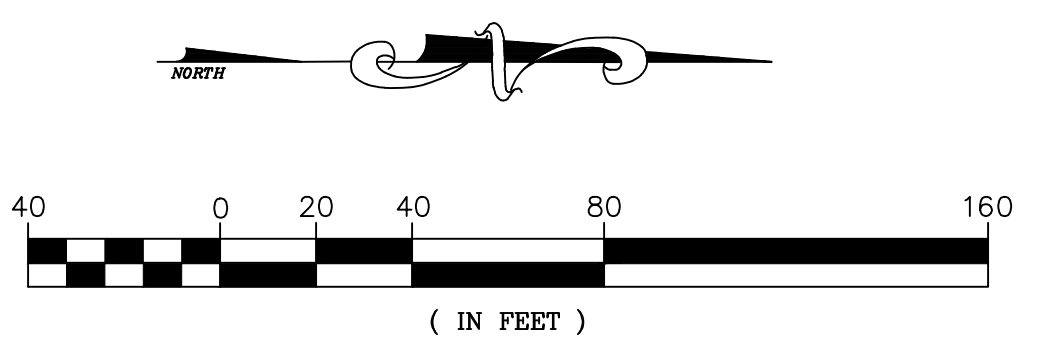
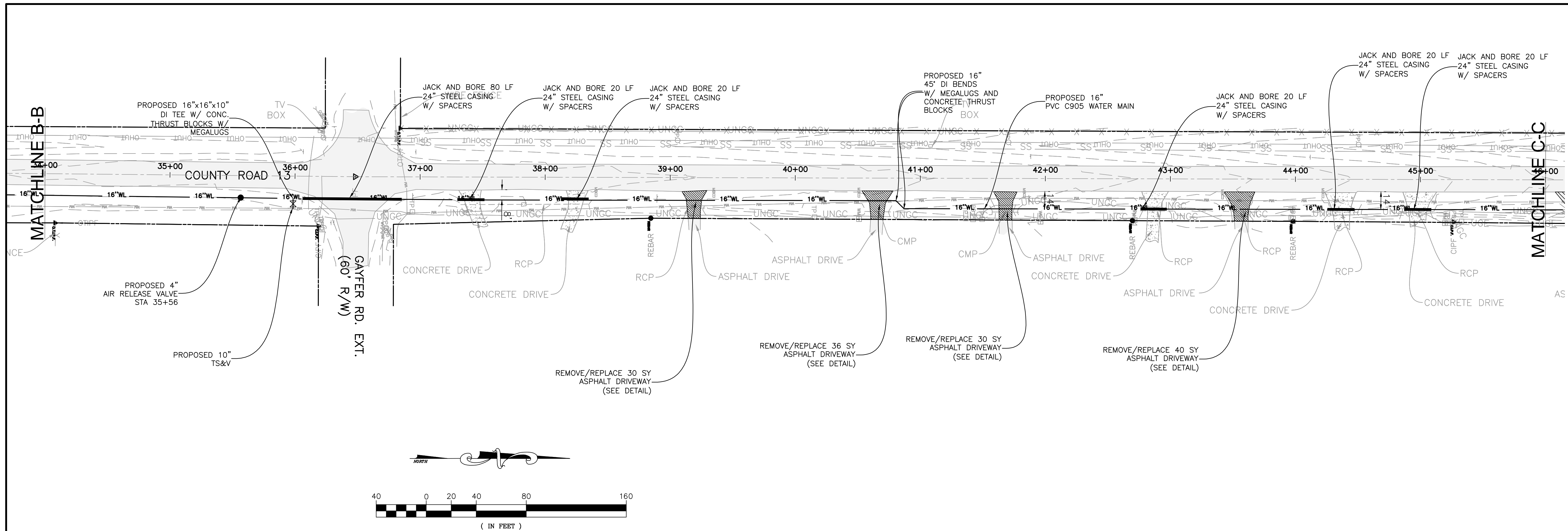
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

PROPOSED UTILITY PLAN
 STA 10+00 TO STA 34+00

DATE: 11/12 JOB NO.: 12-2111-0072 DRAWING NO.: C3.0 REVISION NO.: 0



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FAIRHOPE PUBLIC UTILITIES
 FAIRHOPE, AL
 BALDWIN COUNTY

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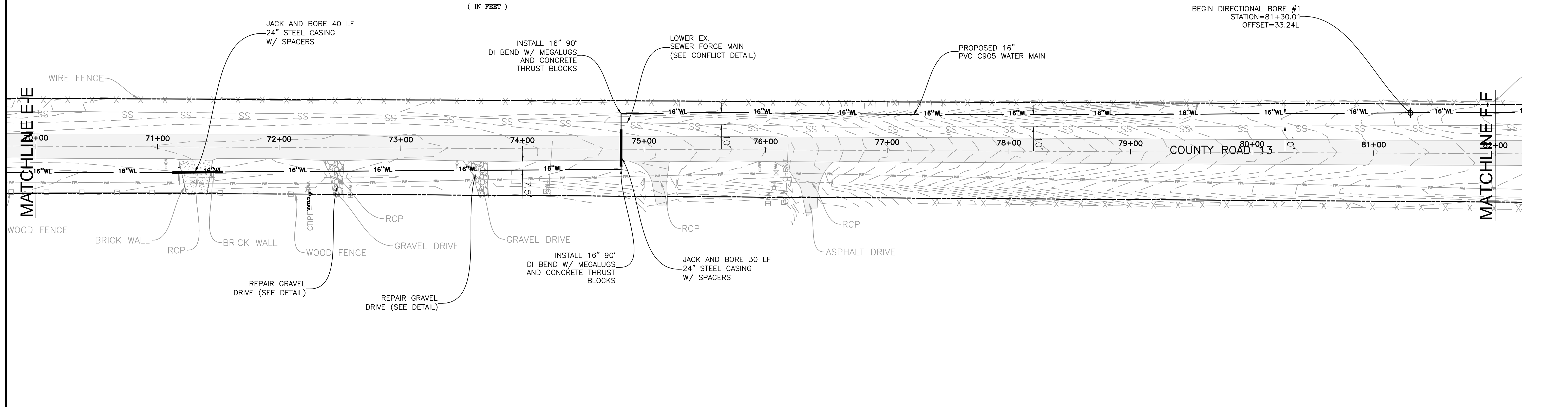
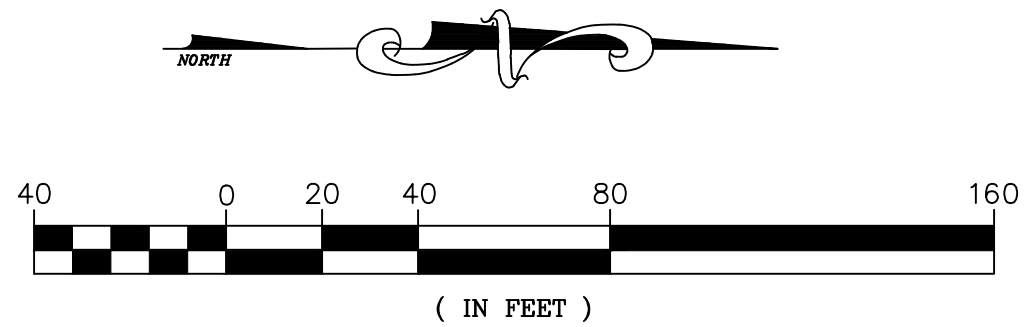
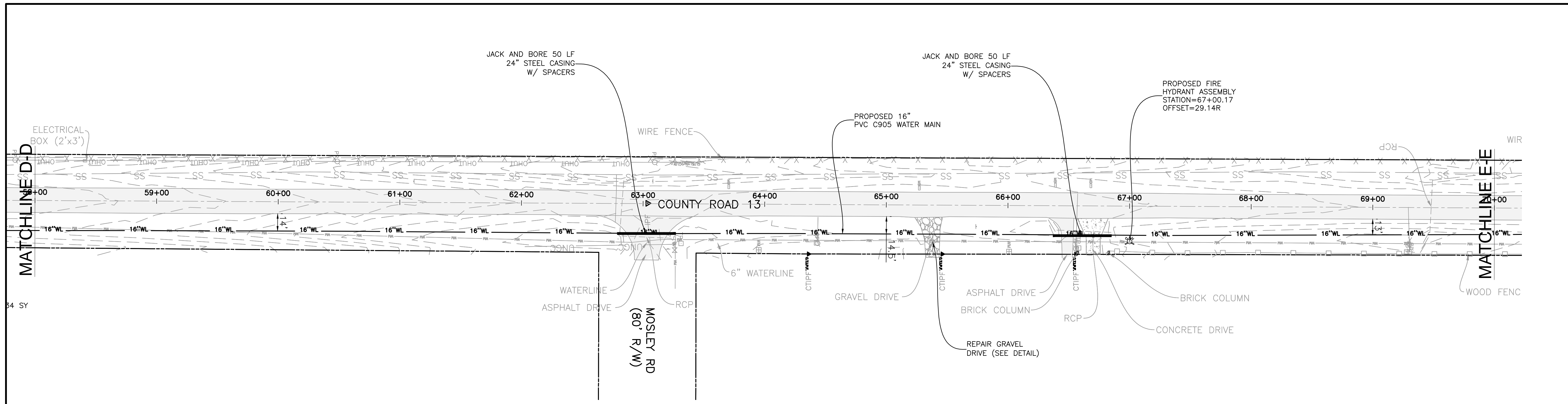
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 APPROVED BY: MJ

CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

PROPOSED UTILITY PLAN
 STA 34+00 TO STA 58+00

DWG NO. 12-2111-0072
 DATE 11/12
 REVISION NO. C3.1
 QUANTITY 0



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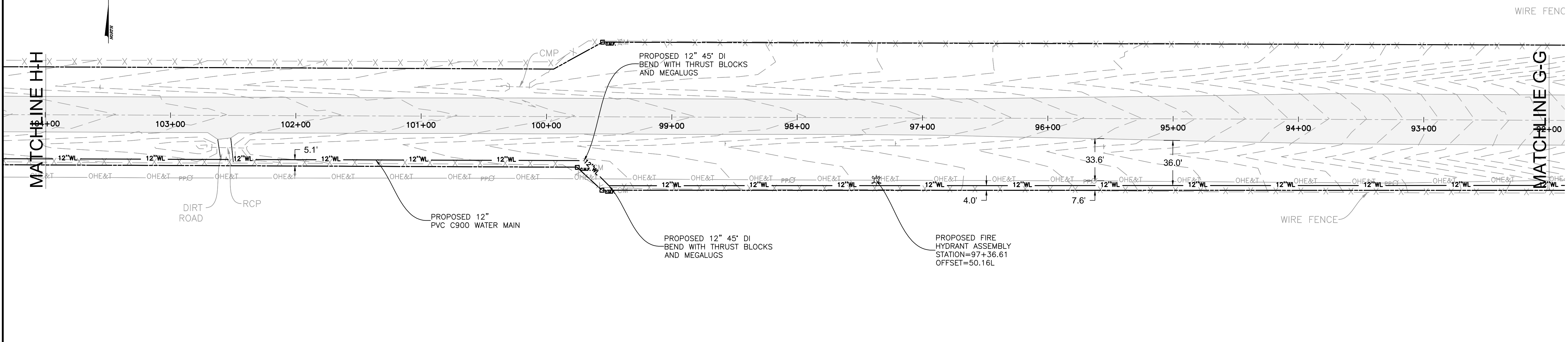
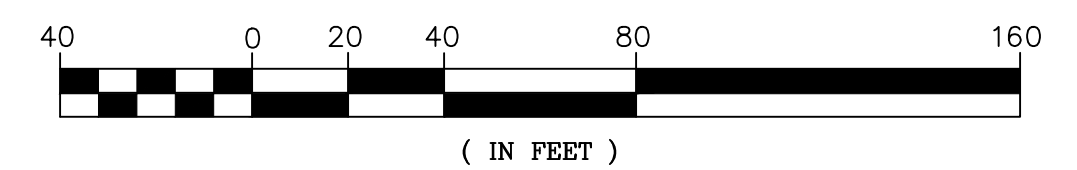
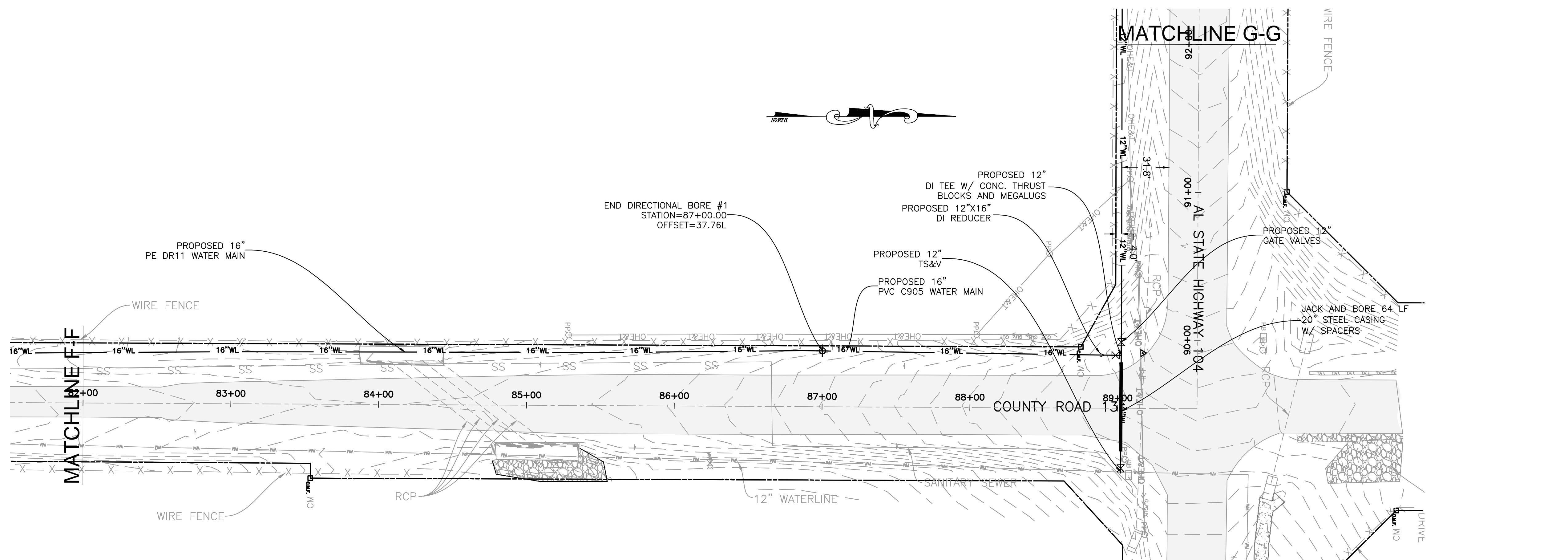
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

PROPOSED UTILITY PLAN
 STA 58+00 TO STA 82+00

DATE: 11/12 JOB NO.: 12-2111-0072 DRAWING NO.: C-3.2 REVISION NO.: 0



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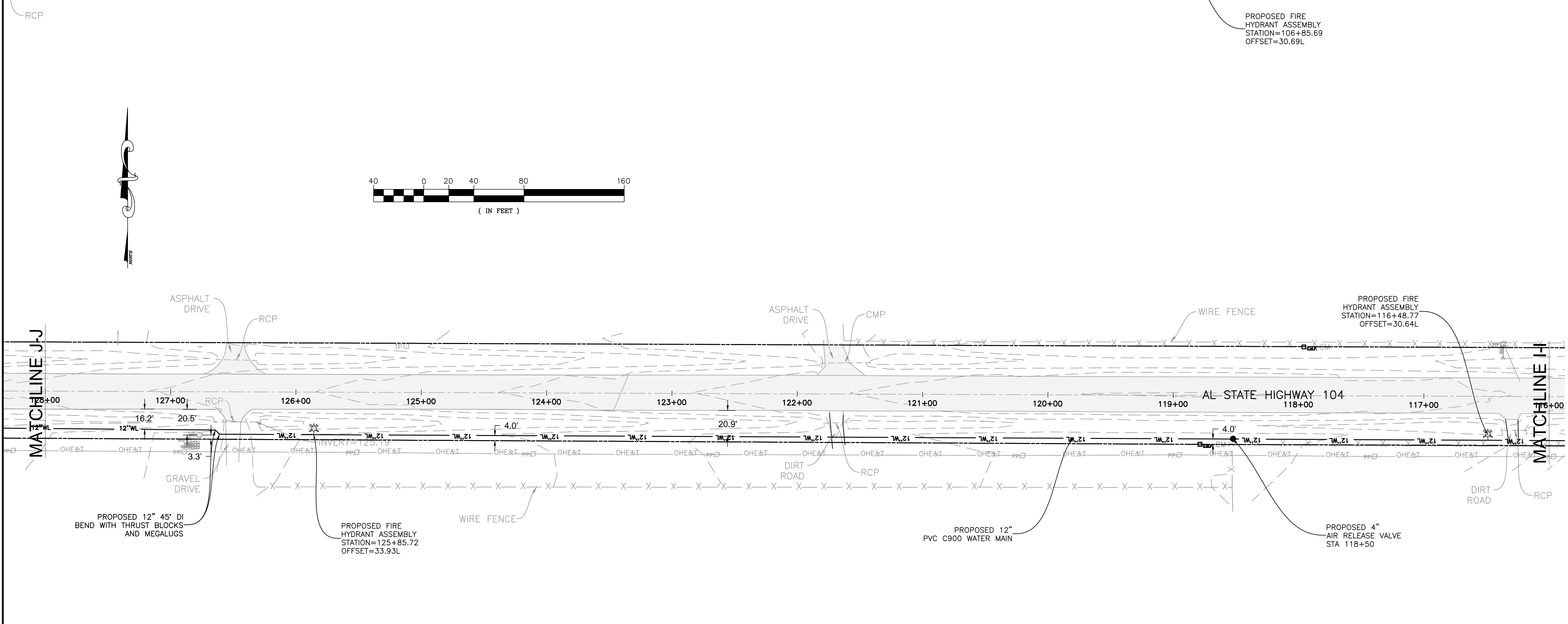
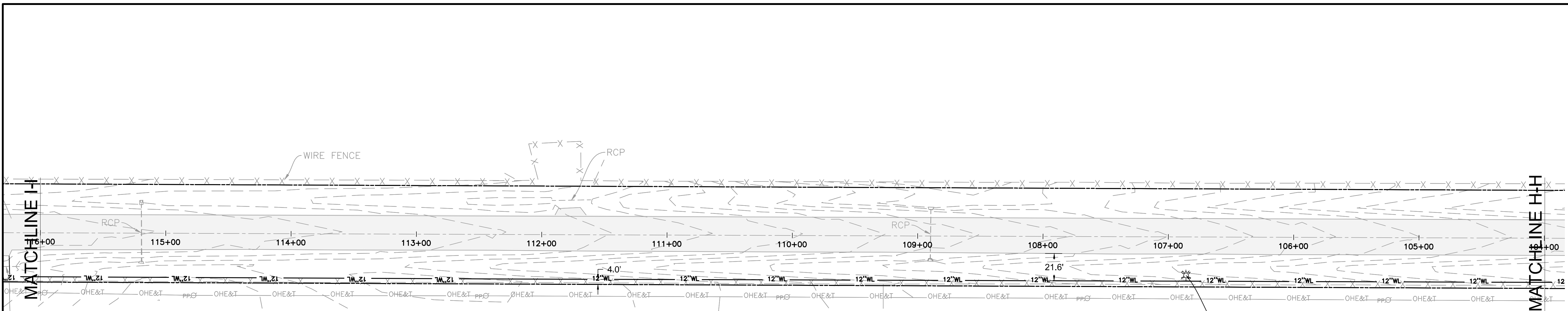
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

PROPOSED UTILITY PLAN
STA 82+00 TO STA 104+00

DATE: 11/12 JOB NO.: 12-2111-0072 DRAWING NO.: C3.3 REVISION NO.: 0



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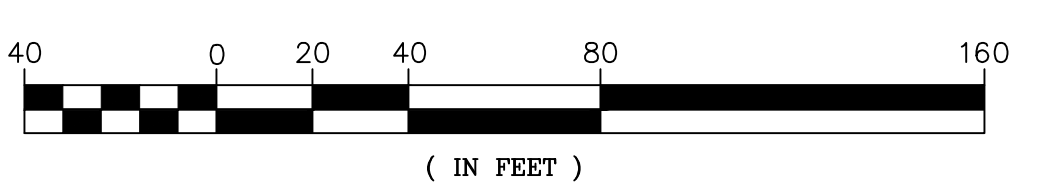
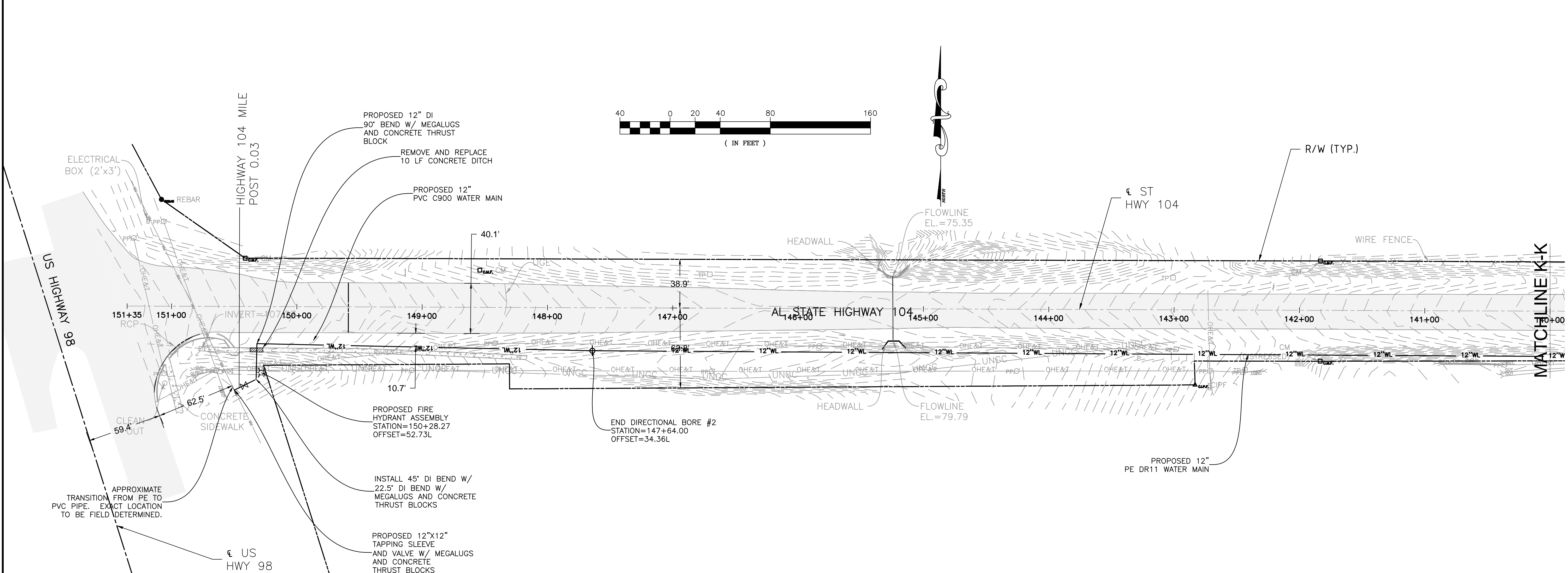
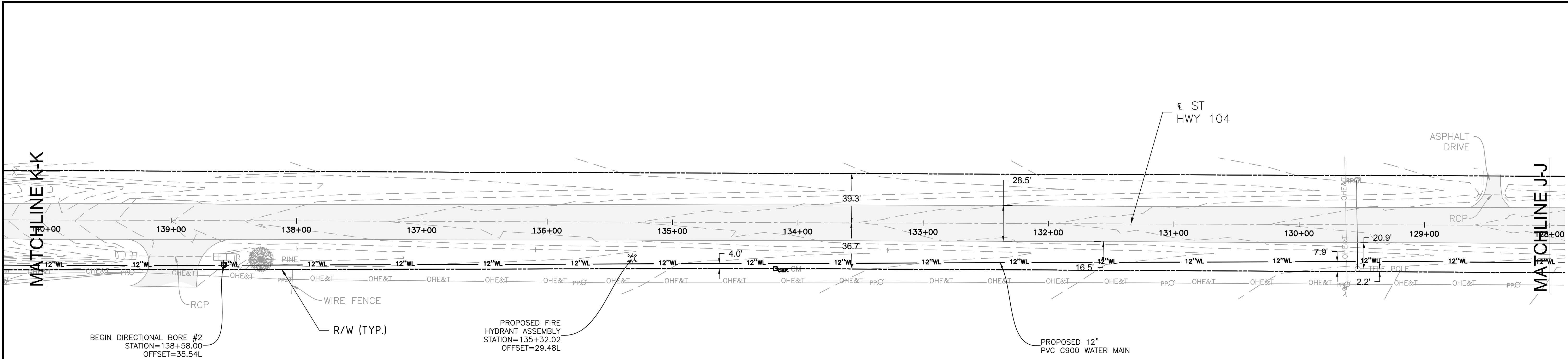
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

PROPOSED UTILITY PLAN
STA 104+00 TO STA 128+00

DATE: 11/12
 JOB NO.: 12-2111-0072
 DRAWING NO.: C.3.4
 REVISION NO.: 0



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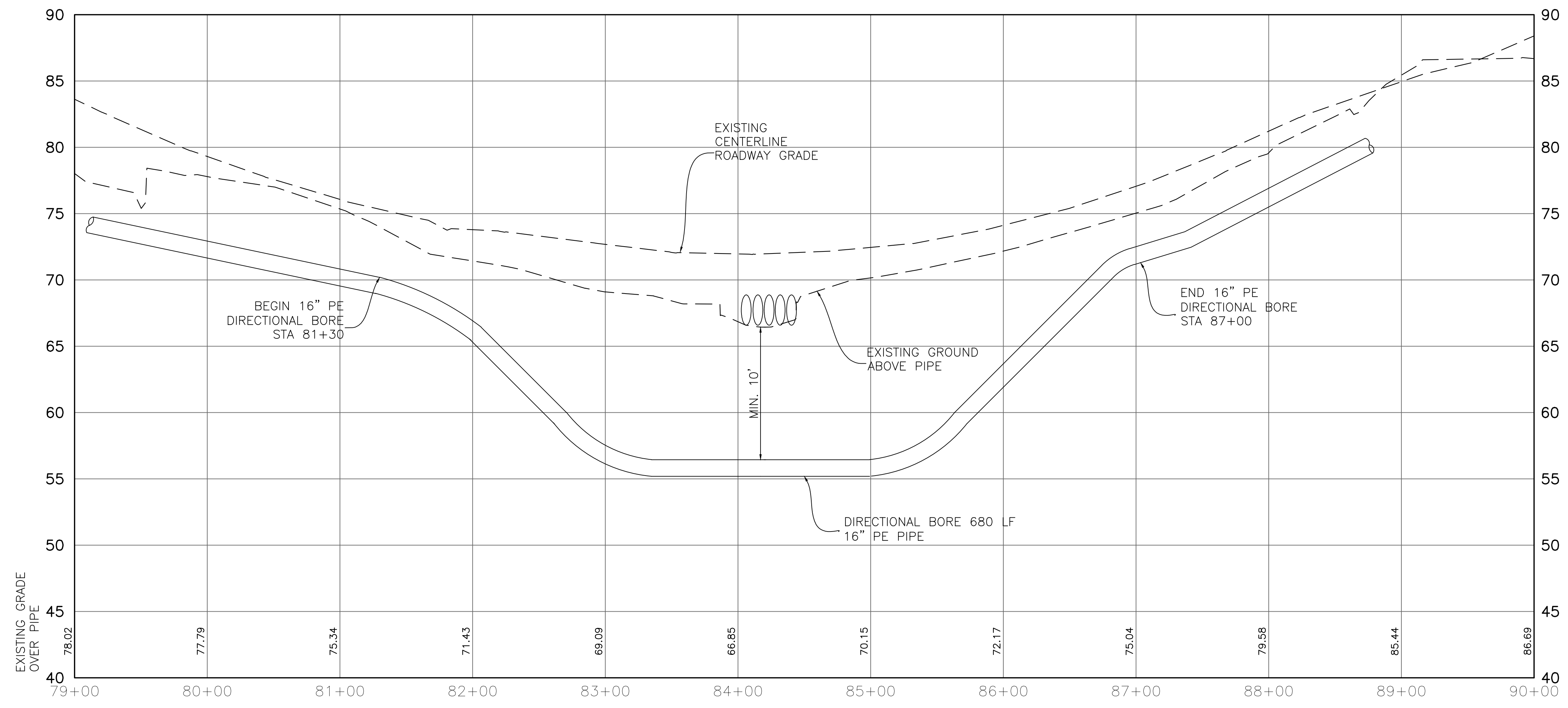
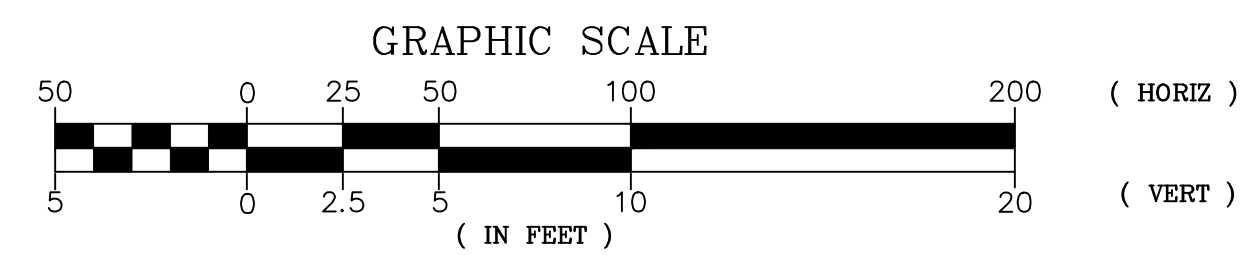
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

PROPOSED UTILITY PLAN
STA 128+00 TO STA 151+35

DATE: 11/12 JOB NO.: 12-2111-0072 DRAWING NO.: C3.5 REVISION NO.: 0



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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

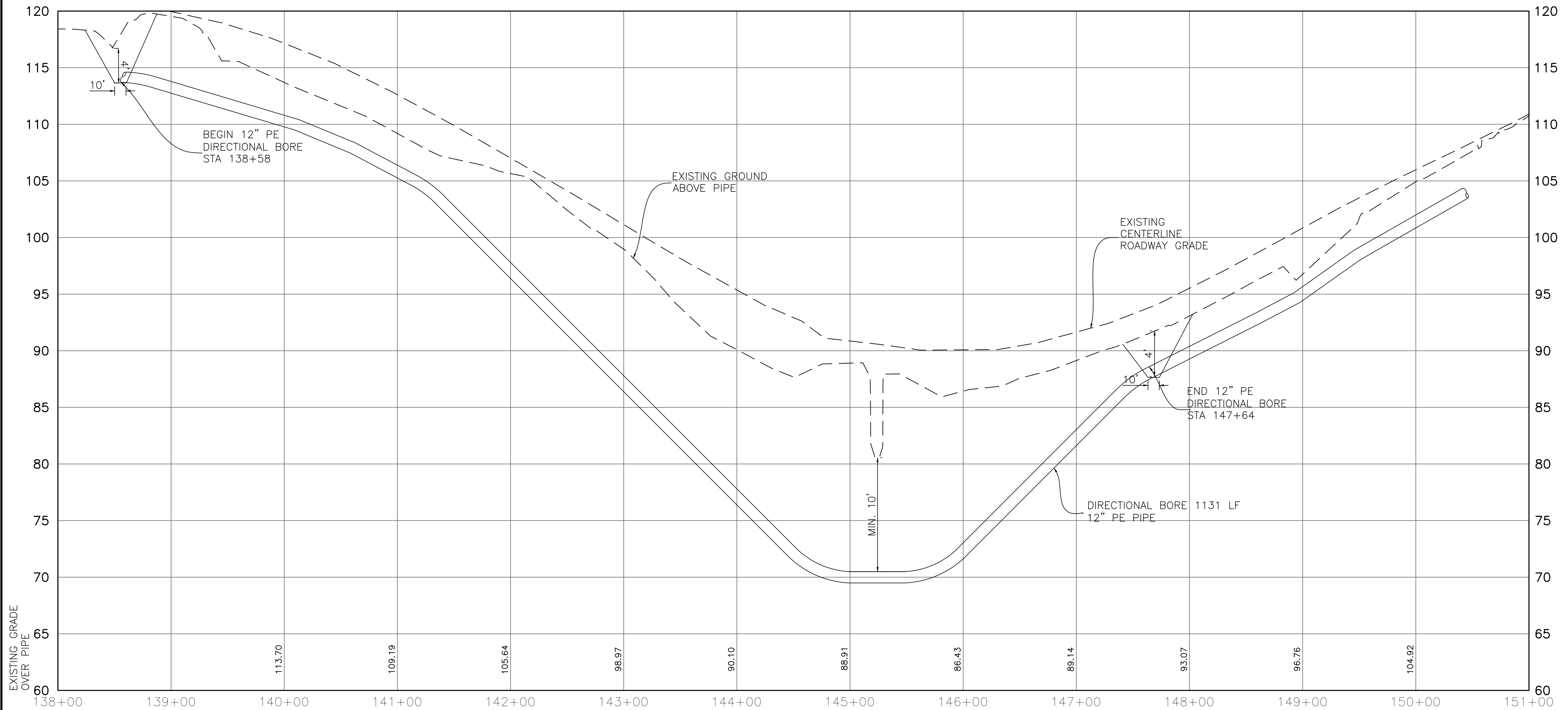
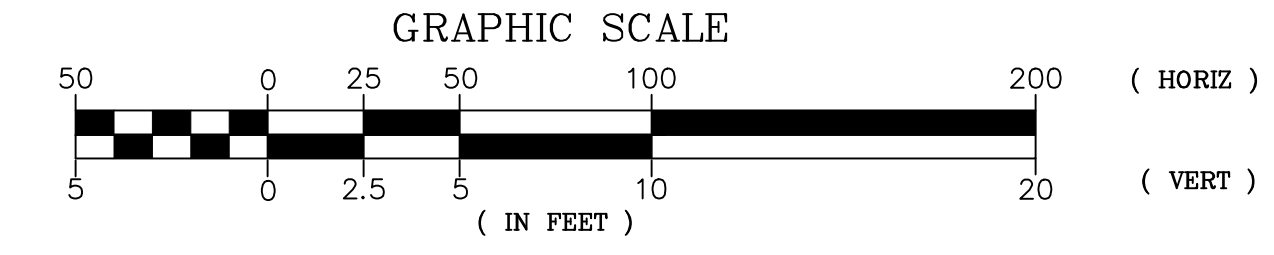
DIRECTIONAL BORE #1

DATE: 11/12

PROJECT NO.: 12-2111-0072

DRAWING NO.: C3.6

REVISION NO.: 0



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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

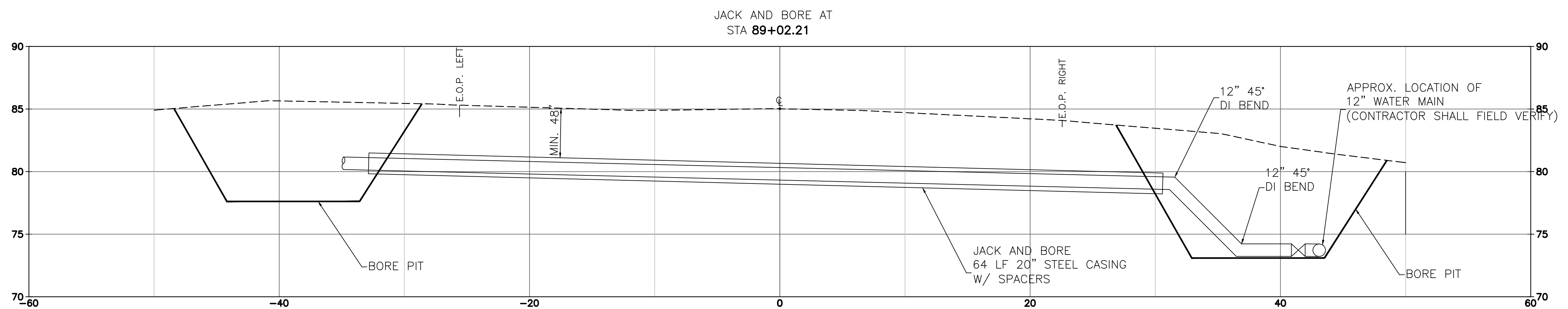
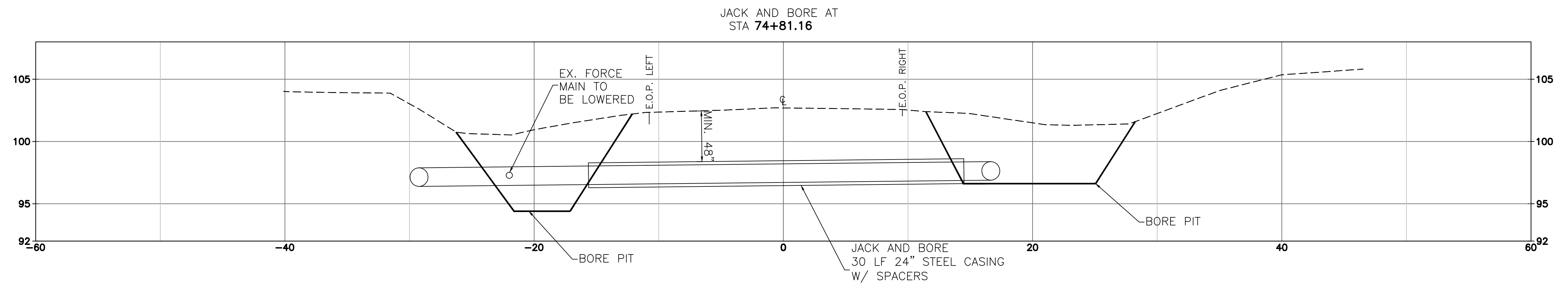
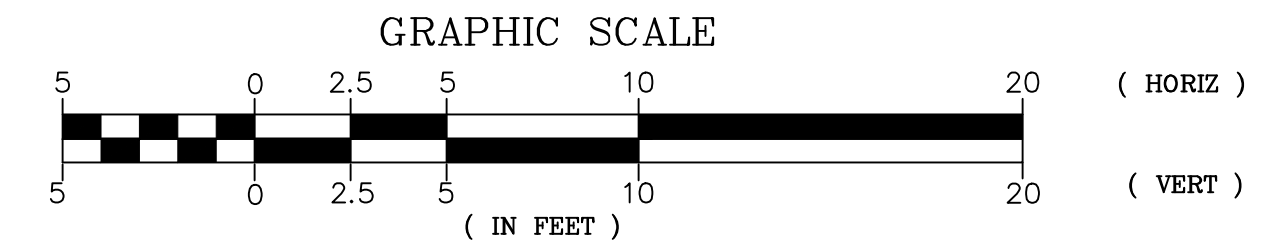
DIRECTIONAL BORE #2

DATE: 11/12

PROJECT NO.: 12-2111-0072

DRAWING NO.: C3.7

REVISION NO.: 0



IF CONTRACTOR DESIRES TO INSTALL CASING AND TIE-IN IN A DIFFERENT CONFIGURATION, HE/SHE SHALL SUBMIT THE PLAN TO THE ENGINEER FOR REVIEW. IT IS CRITICAL THAT A MINIMUM OF 48" SEPARATION BE MAINTAINED BETWEEN TOP OF CASING AND PAVEMENT.

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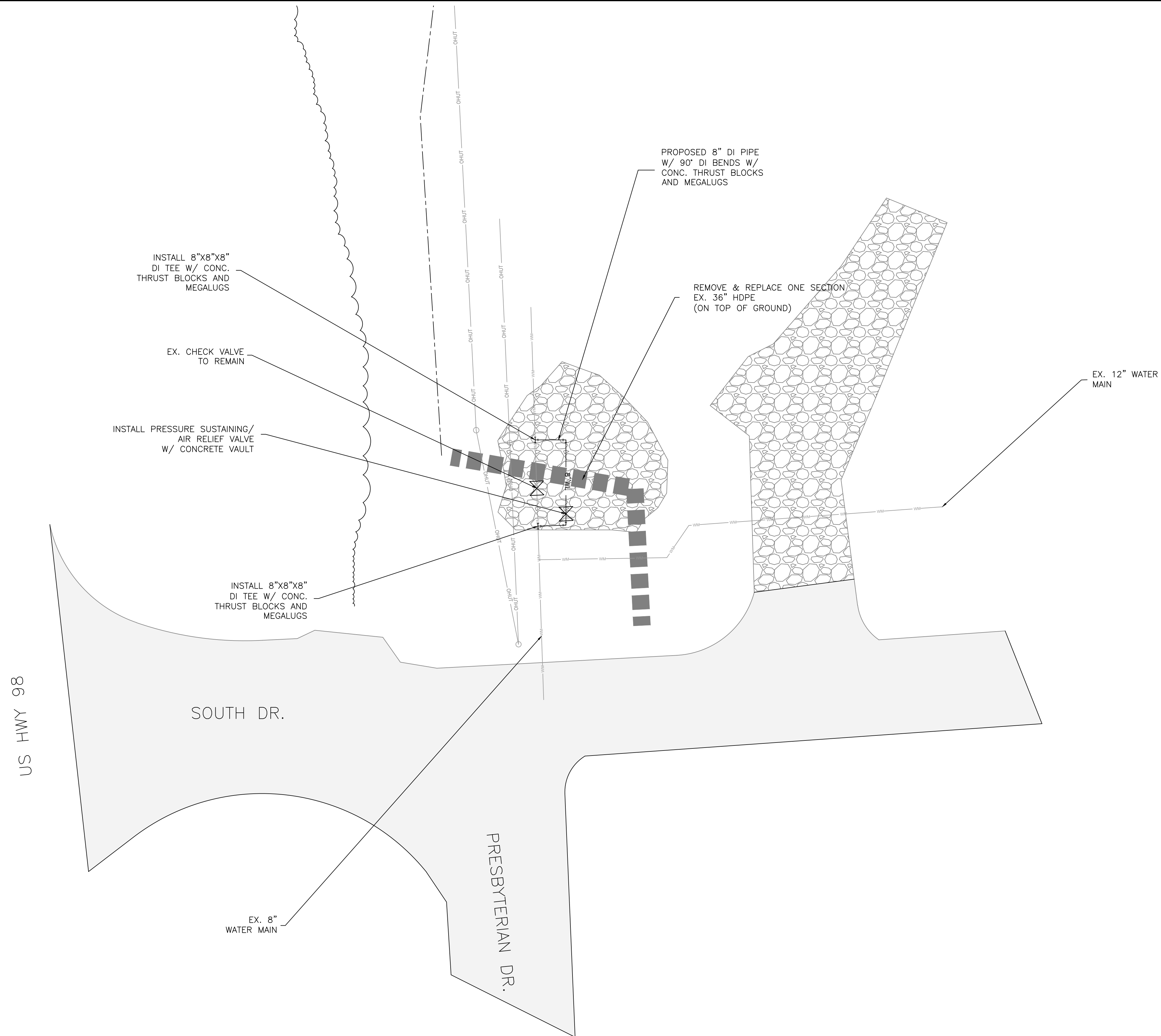
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CHECKED BY: L/JG
APPROVED BY: MJ
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**CR 13 AND HWY 104 WATER
MAIN IMPROVEMENTS AND SOUTH DR.
BOOSTER STATION UPGRADE**

JACK AND BORE CROSS SECTION

DATE: 11/12	DR. NO.: 12-2111-0072	DRAWING NO.: C3.8	REVISION NO.: 0
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SCALE: NTS



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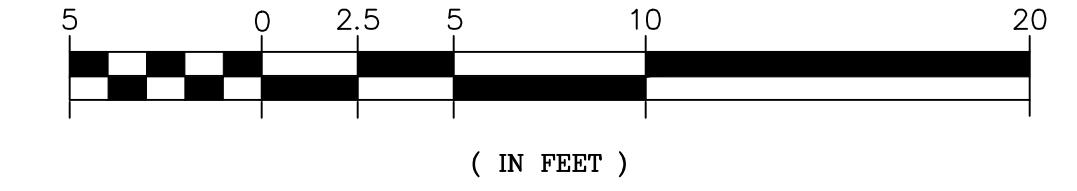
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

RELIEF VALVE INSTALLATION

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GRAPHIC SCALE

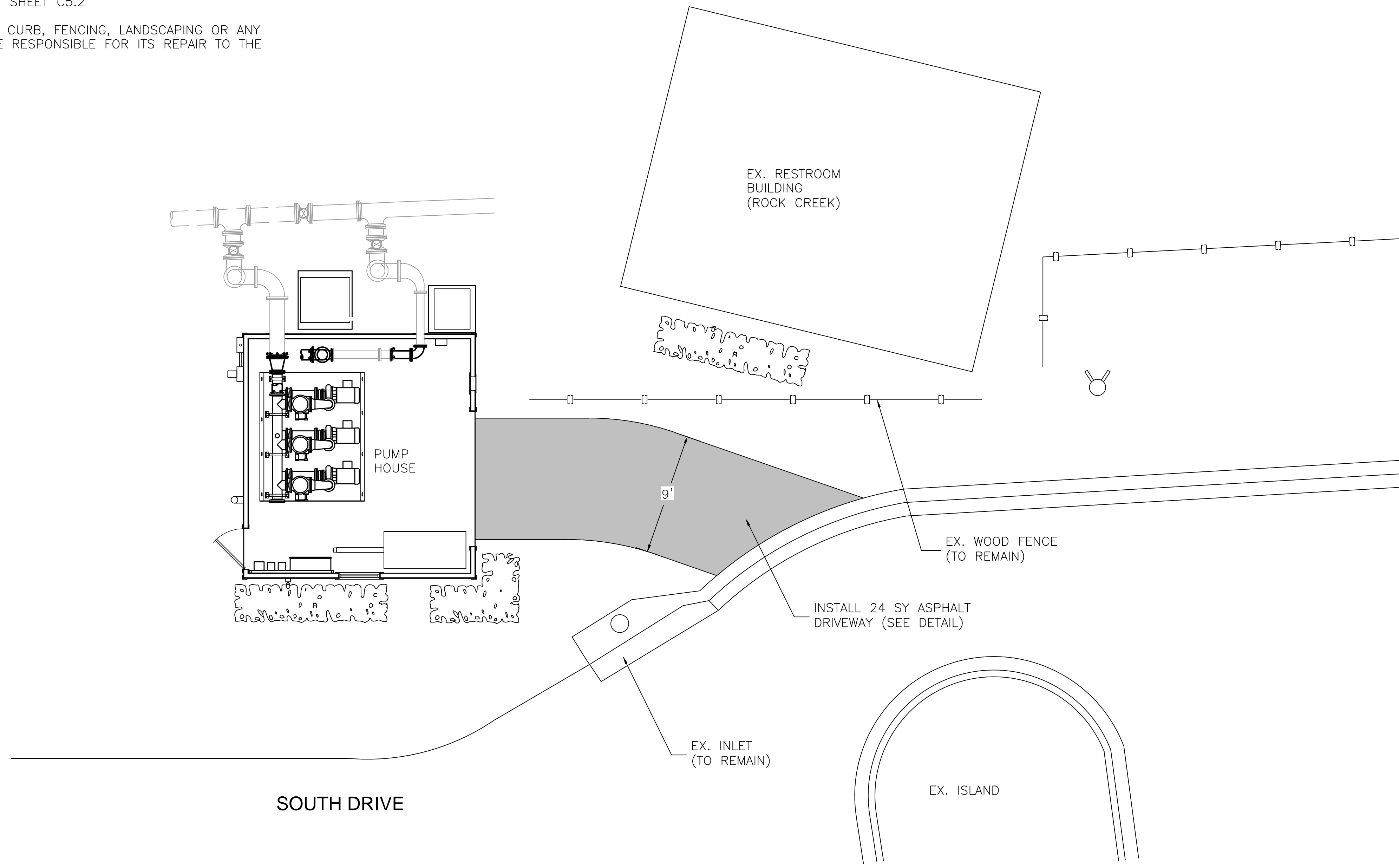


(IN FEET)



NOTES:

1. THIS SITE PLAN WAS PREPARED WITHOUT THE BENEFIT OF A SURVEY. THE CONTRACTOR SHALL VERIFY ANY AND ALL DIMENSIONS AND LOCATION OF UTILITIES.
2. ASPHALT DRIVEWAY DETAIL SHOWN ON SHEET C5.2
3. SHOULD ANY DAMAGE OCCUR TO THE CURB, FENCING, LANDSCAPING OR ANY OTHER ITEMS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REPAIR TO THE SATISFACTION OF THE ENGINEER.



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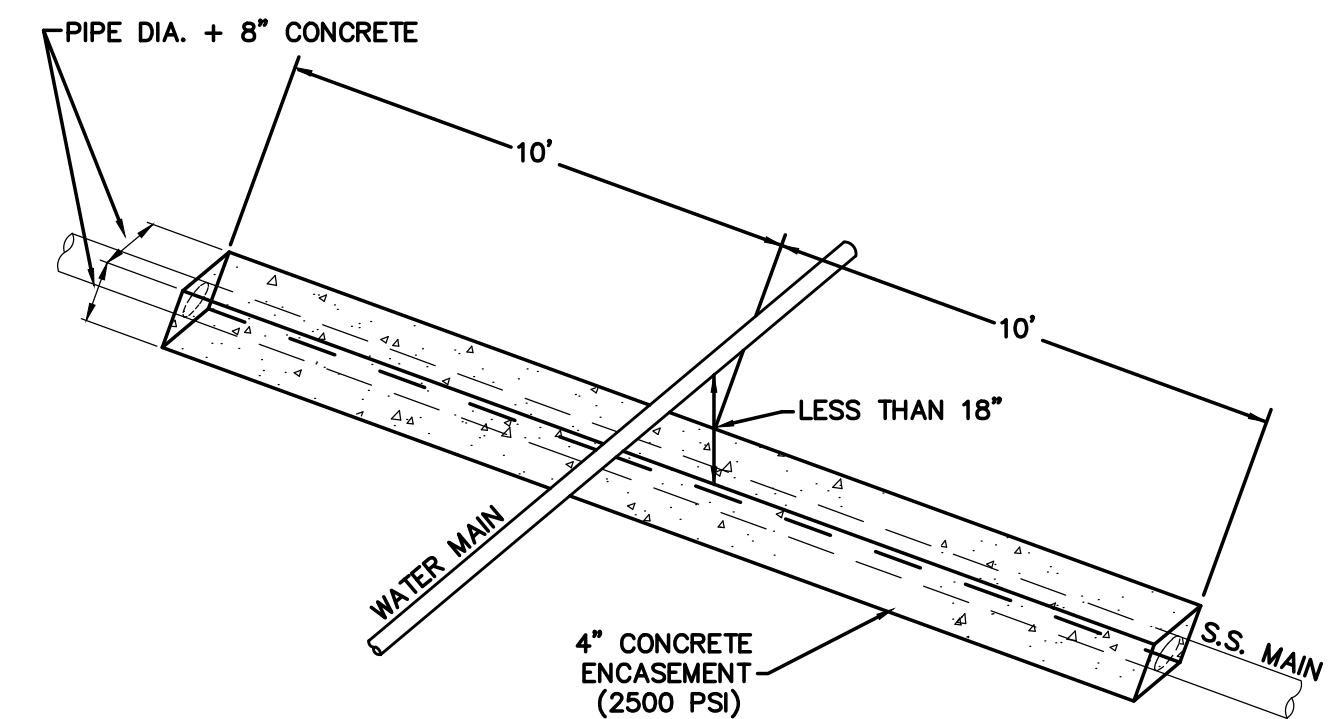
CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

BOOSTER STATION SITE PLAN

DATE: 11/12 PROJECT NO.: 12-2111-0072 DRAWING NO.: C3.10 REVISION NO.: 0

SANITARY SEWER LINES (GRAVITY OR PRESSURE) SHALL HAVE 18" OR GREATER VERTICAL CLEARANCE BELOW ANY POTABLE WATER LINE WHEN CROSSING. A MINIMUM OF 6" VERTICAL CLEARANCE IS REQUIRED FOR OTHER UTILITIES. HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER LINE THAT IS PARALLEL TO AND LESS THAN 18" BELOW A POTABLE WATER LINE SHALL BE 10" OR GREATER. A MINIMUM OF 30" IS REQUIRED FOR OTHER UTILITIES.

IF THIS IS NOT POSSIBLE OR PRACTICAL, SEE BELOW:



FOR CROSSING: ENCASE AS ABOVE SO THAT THE ENDS OF ENCASEMENT ARE AT LEAST 12' FROM ANY WATER LINE JOINT. WATER LINE JOINT MUST NOT BE CLOSER THAN 5' TO THE POINT OF CROSSING, OR IT MUST ALSO BE ENCASED.

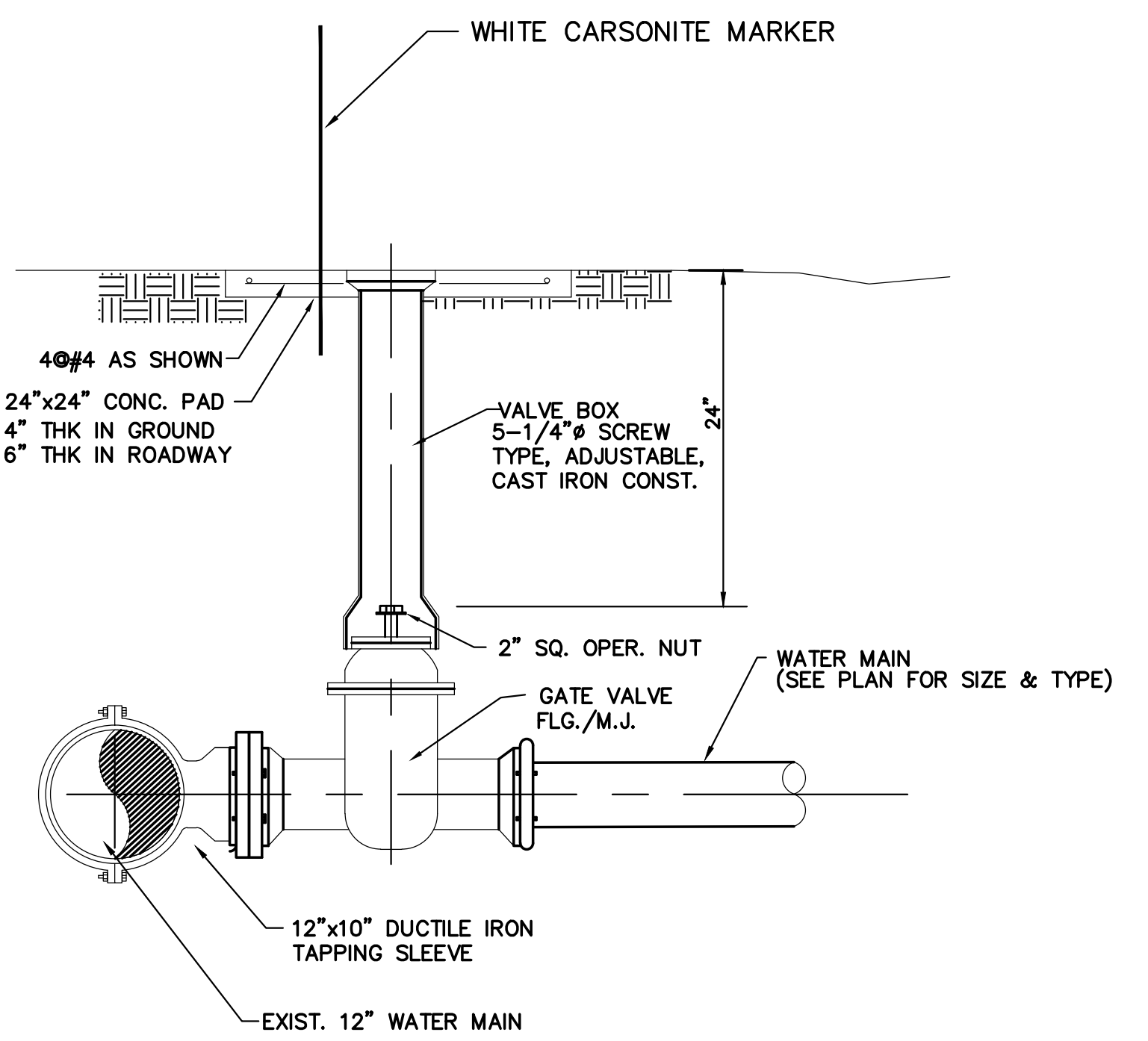
ALTERNATE 1: USE EQUALLY (OR HIGHER) RATED PRESSURE PIPE FOR SEWER WITH NO JOINTS CLOSER THAN 12' APART AND 6" VERTICAL.

ALTERNATE 2: PLACE SEWER LINE INTO STEEL CASING AND CENTER 20' PIECE WITH 4' VERTICAL CLEARANCE AND SEAL ENDS.

FOR PARALLEL: AND 6' TO 10' APART USE ALTERNATE 2, BUT IF MORE THAN 40' IN LENGTH, ALTERNATE 1 MUST BE USED AND JOINTS ARE TO BE STAGGERED. IF LINES MUST BE 3' TO 6' APART, ALTERNATE 1 MUST BE USED WITH A HIGHER RATED PRESSURE PIPE FOR SEWER (I.E., WATER LINE IS DR25 THEN USE DR18 OR 21 FOR SEWER).

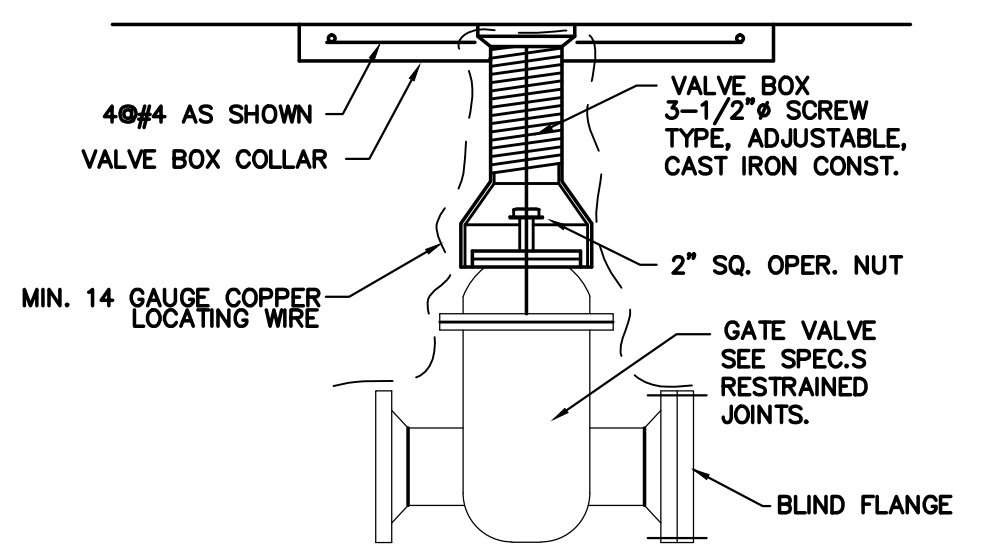
SEWER-WATER SEPARATION & CLEARANCES

NOT TO SCALE



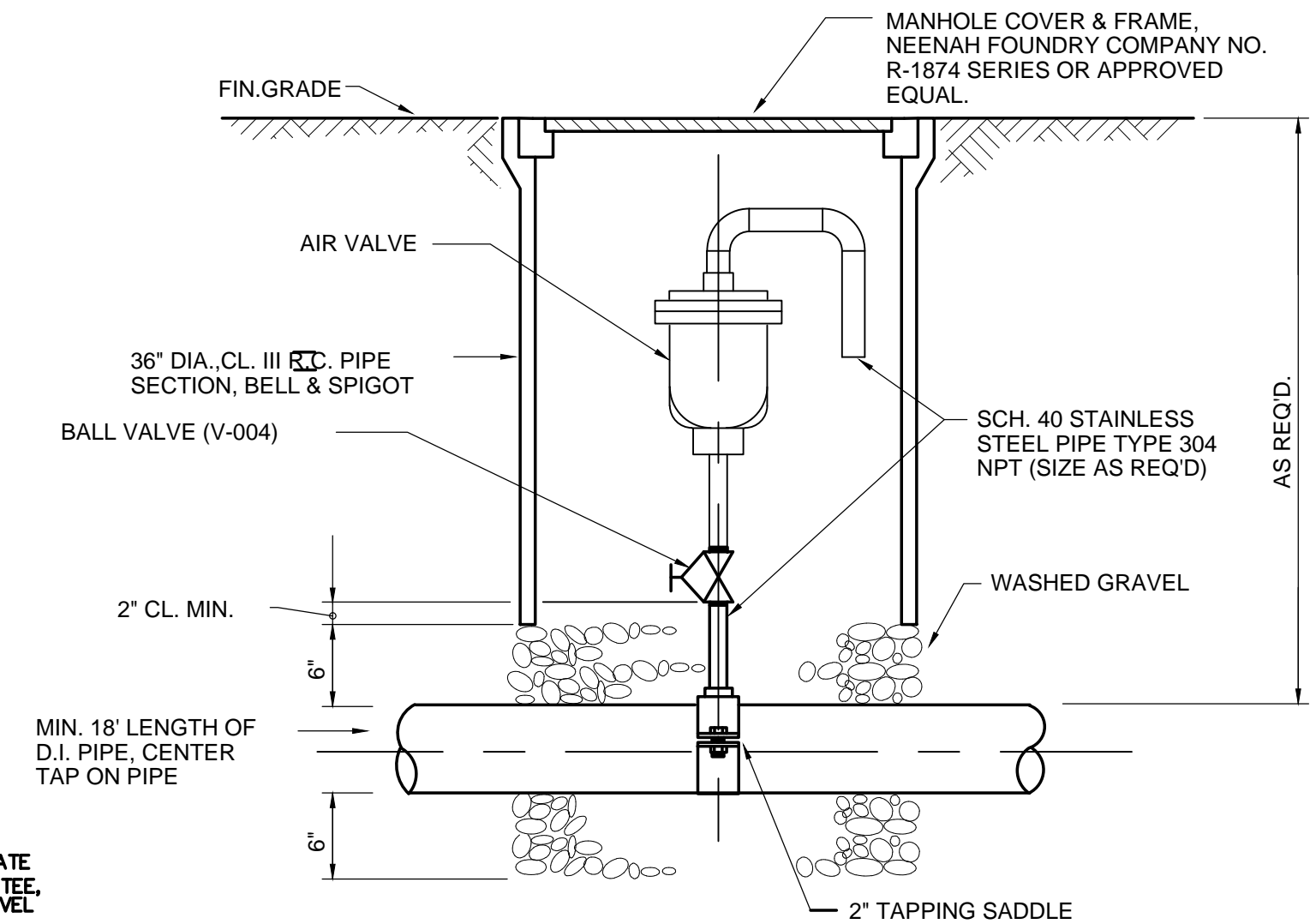
TAPPING SLEEVE & VALVE ASSEMBLY

NOT TO SCALE

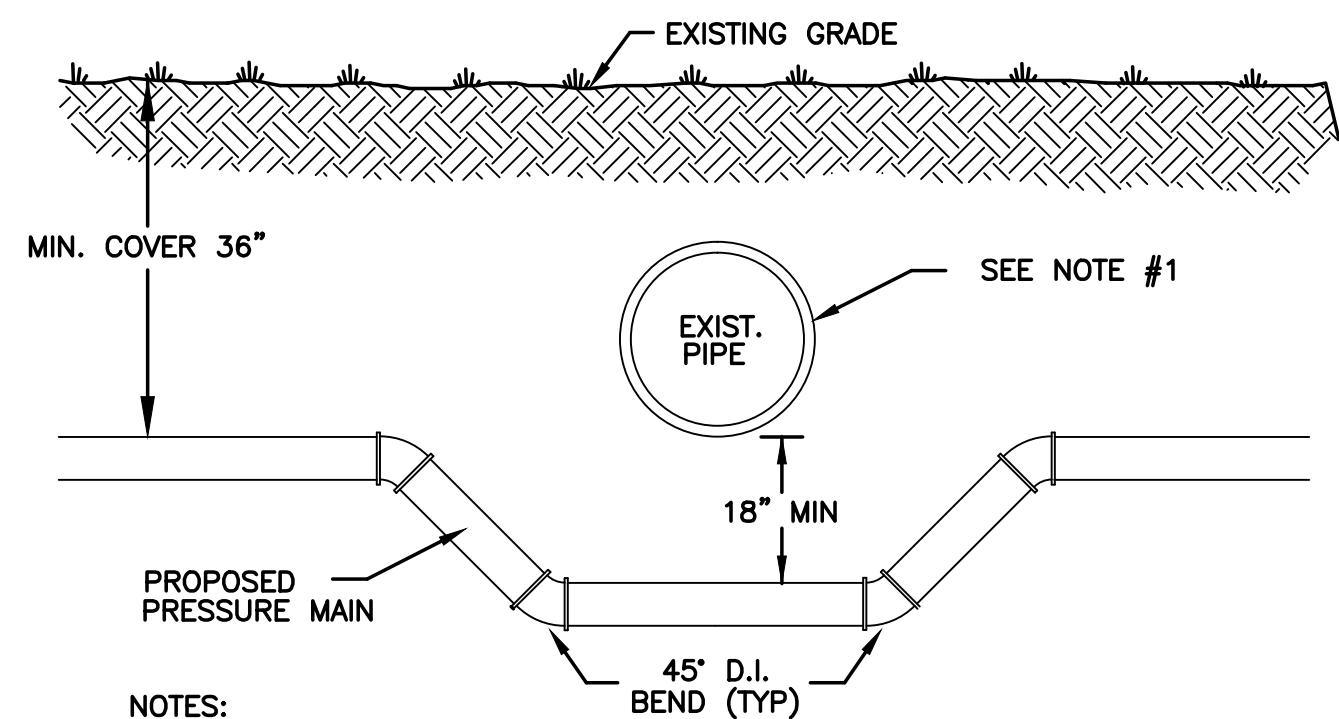


VALVE ASSEMBLY

NTS

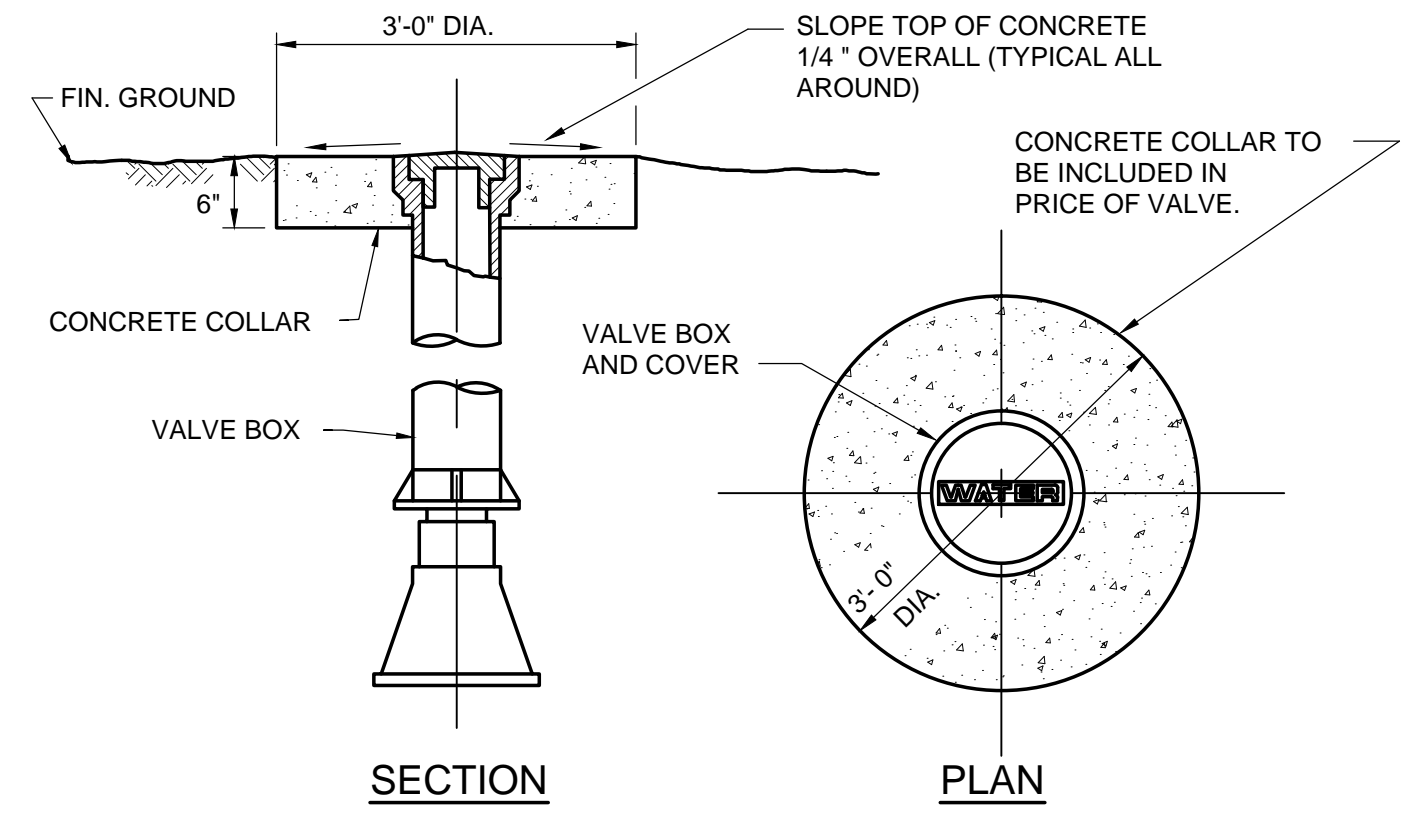


AIR RELEASE VALVE ASSEMBLY

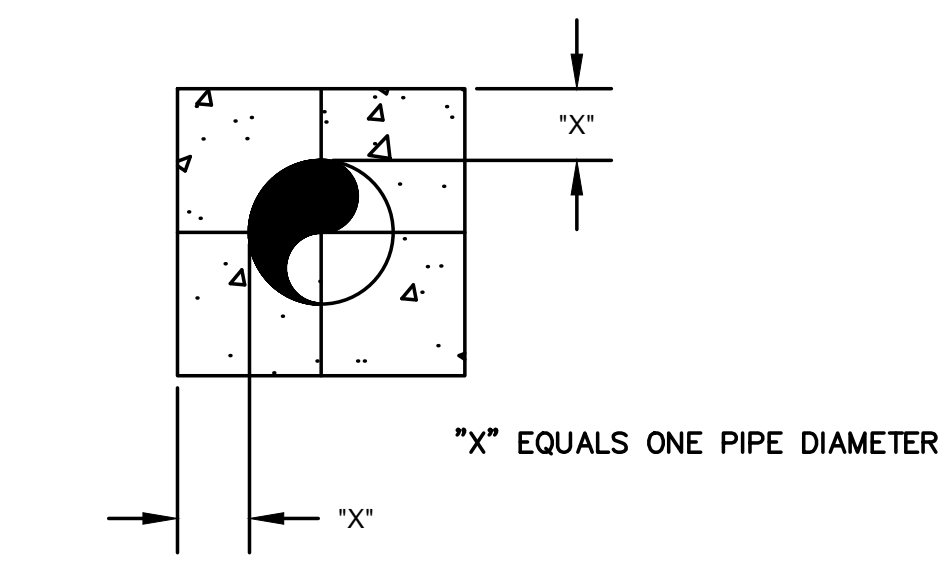


CONFLICT DETAIL

NOTES:
1. IF EXISTING PIPE IS WATER OR SEWER MAIN, REFER TO ENCASEMENT DETAIL FOR ADDITIONAL SPECIFICATIONS.

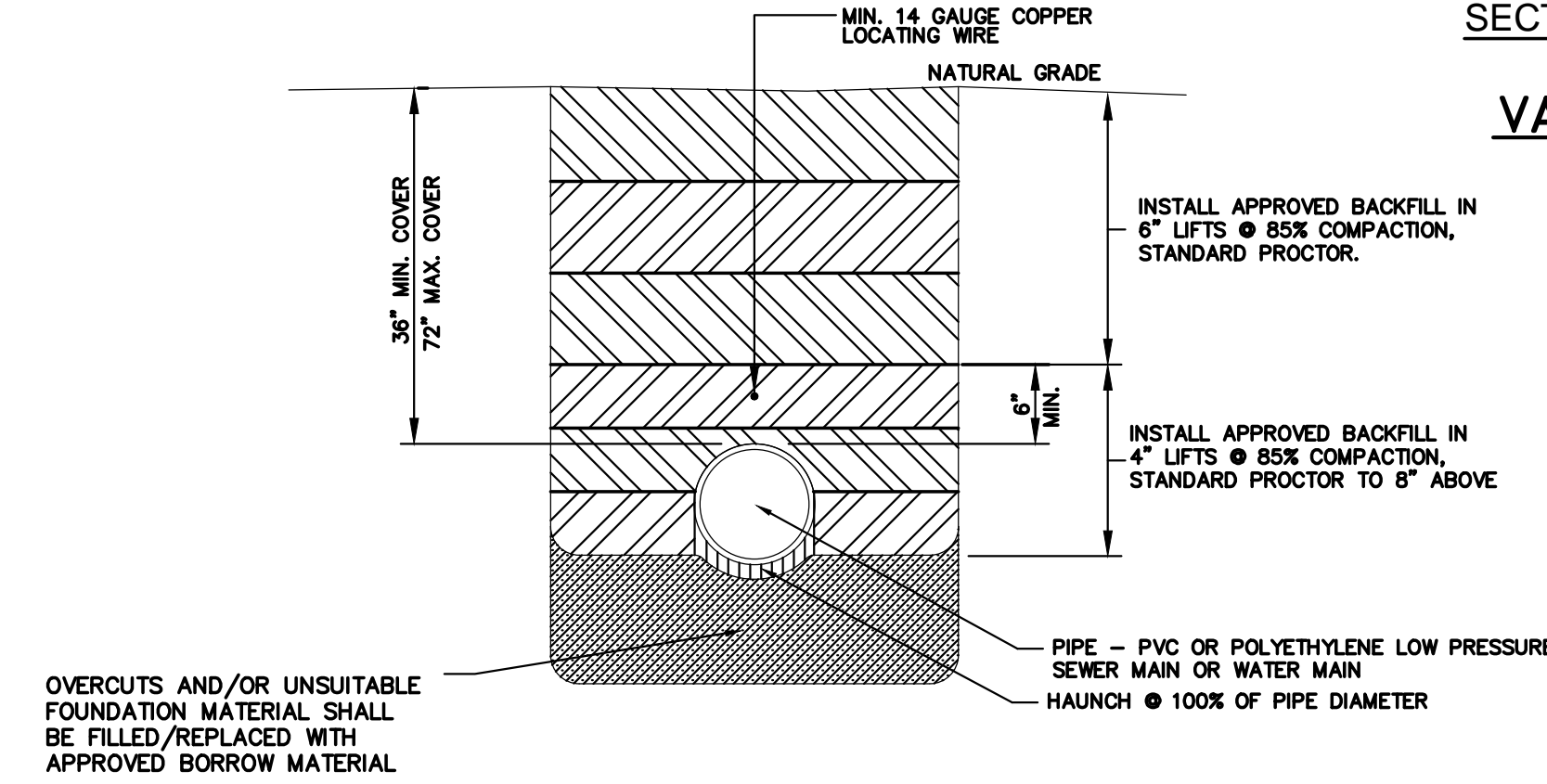


VALVE BOX COLLAR DETAIL



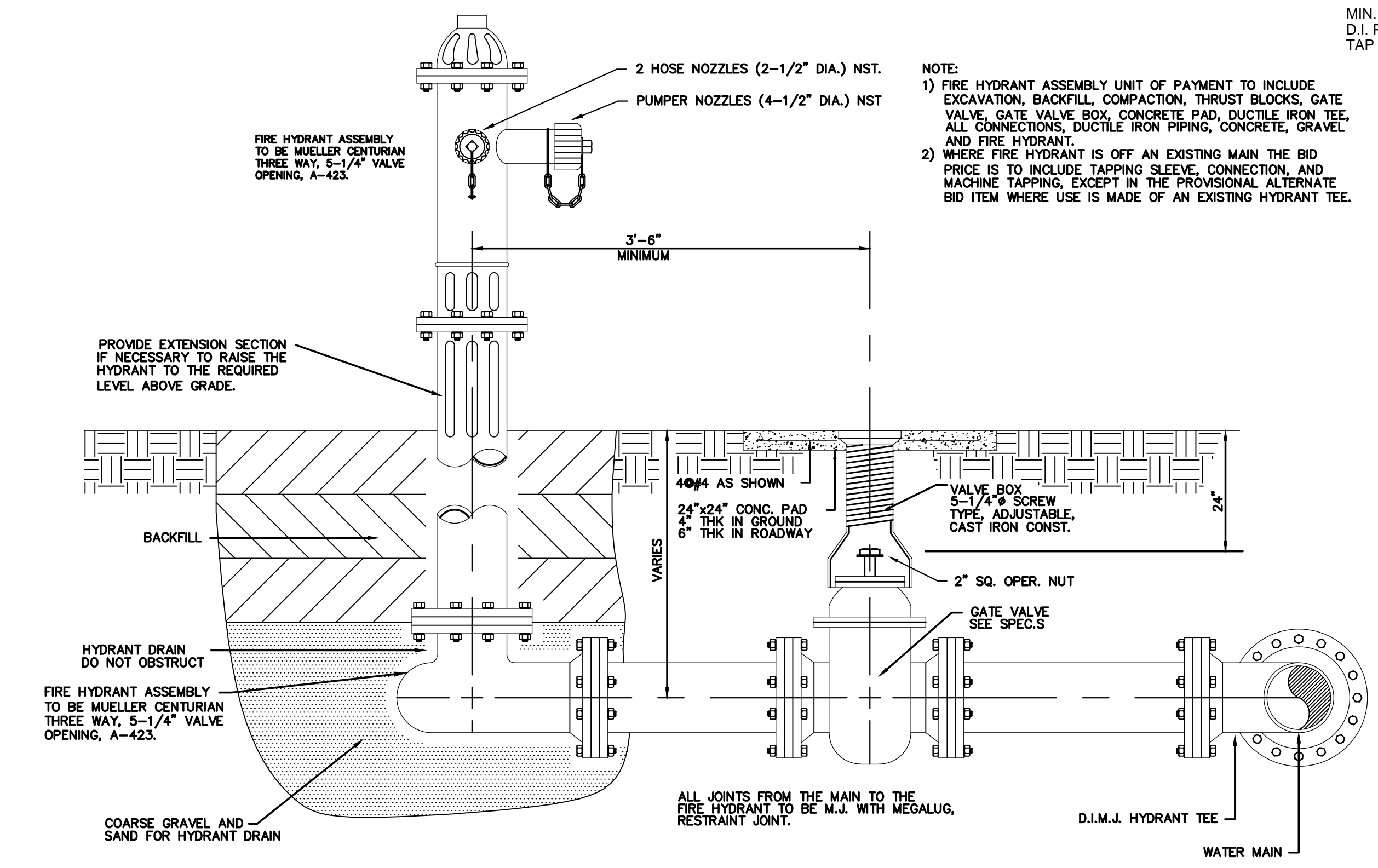
CONCRETE ENCASEMENT

NOT TO SCALE



TYPICAL WATER MAIN TRENCH DETAIL

NOT TO SCALE



FIRE HYDRANT ASSEMBLY

NOT TO SCALE

NOTE:
1) FIRE HYDRANT ASSEMBLY UNIT OF PAYMENT TO INCLUDE EXCAVATION, BACKFILL, COMPACTION, THRUST BLOCKS, GATE VALVE, GATE VALVE BOX, CONCRETE PAD, DUCTILE IRON TEE, ALL CONNECTIONS, DUCTILE IRON PIPING, CONCRETE, GRAVEL AND FIRE HYDRANT.
2) WHERE FIRE HYDRANT IS OFF AN EXISTING MAIN THE BID PRICE IS TO INCLUDE TAPPING SLEEVE, CONNECTION, AND MACHINE TAPPING, EXCEPT IN THE PROVISIONAL ALTERNATE BID ITEM WHERE USE IS MADE OF AN EXISTING HYDRANT TEE.

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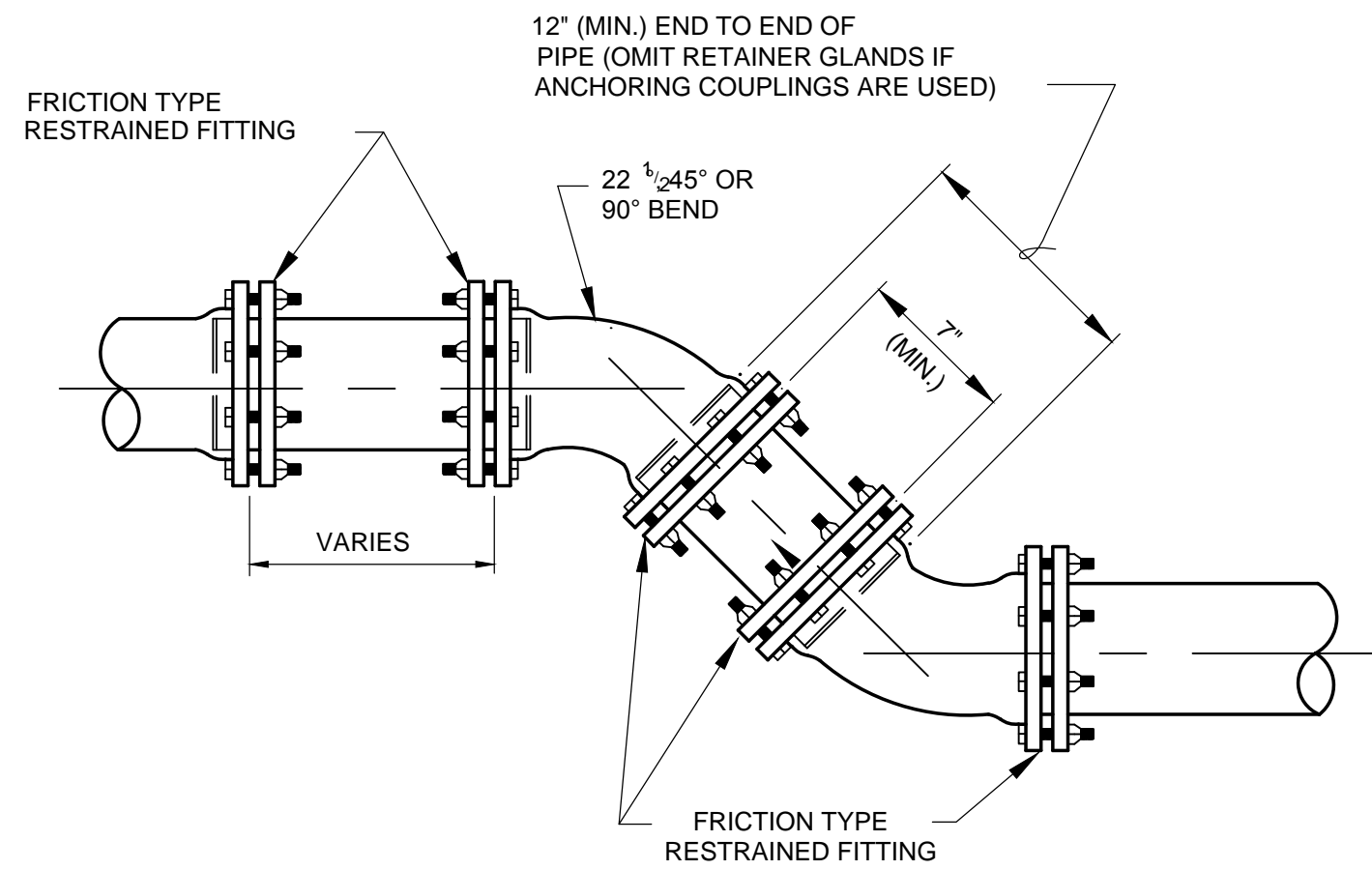
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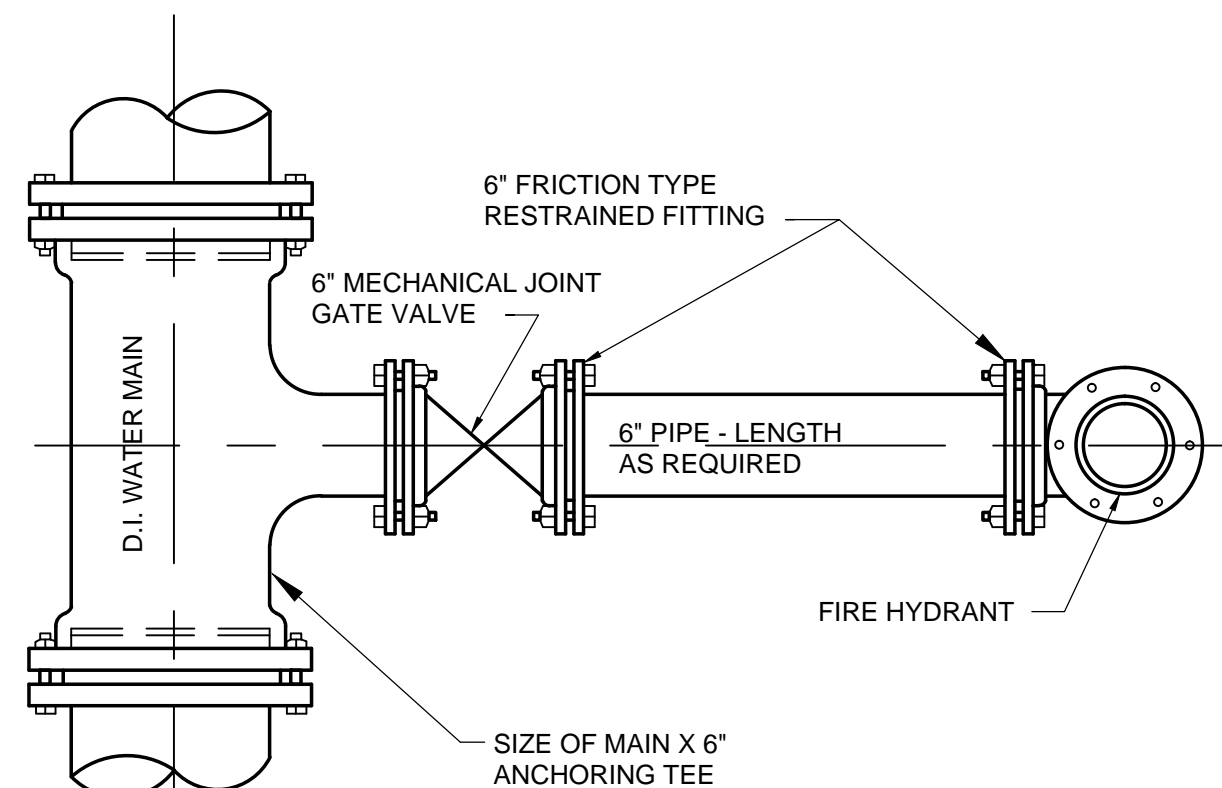
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

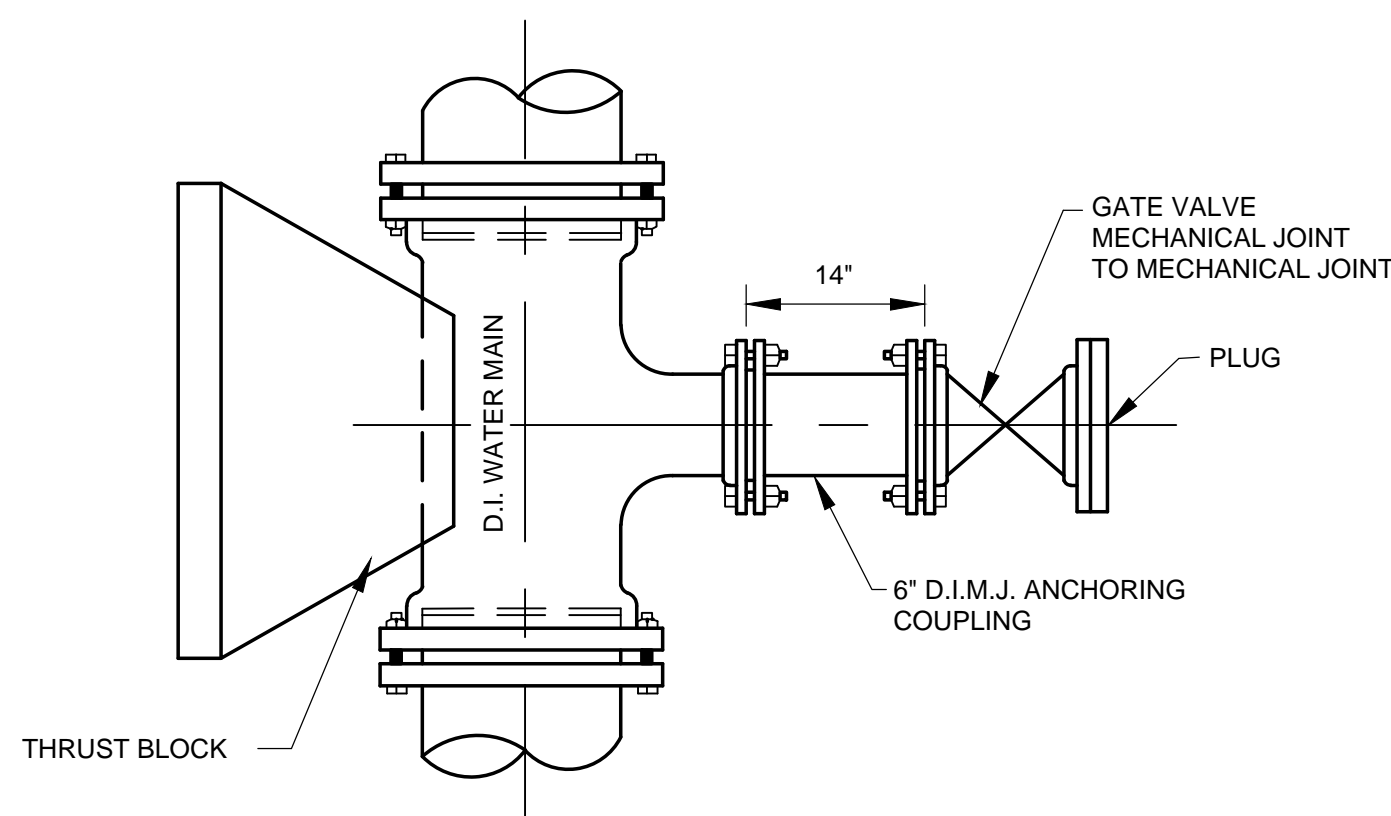
UTILITY DETAILS



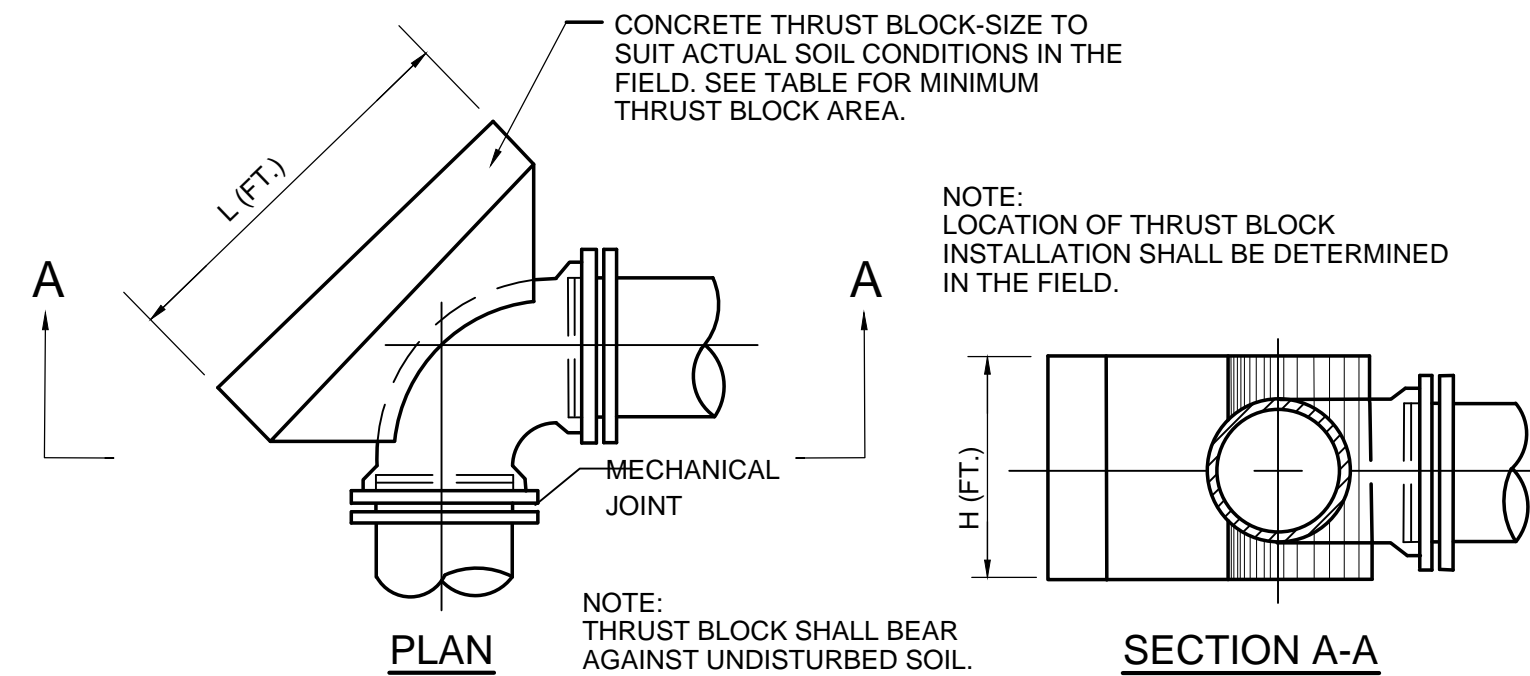
ANCHORING OF VERTICAL OR HORIZONTAL BENDS WHERE THRUST BLOCKS ARE NOT DESIRED



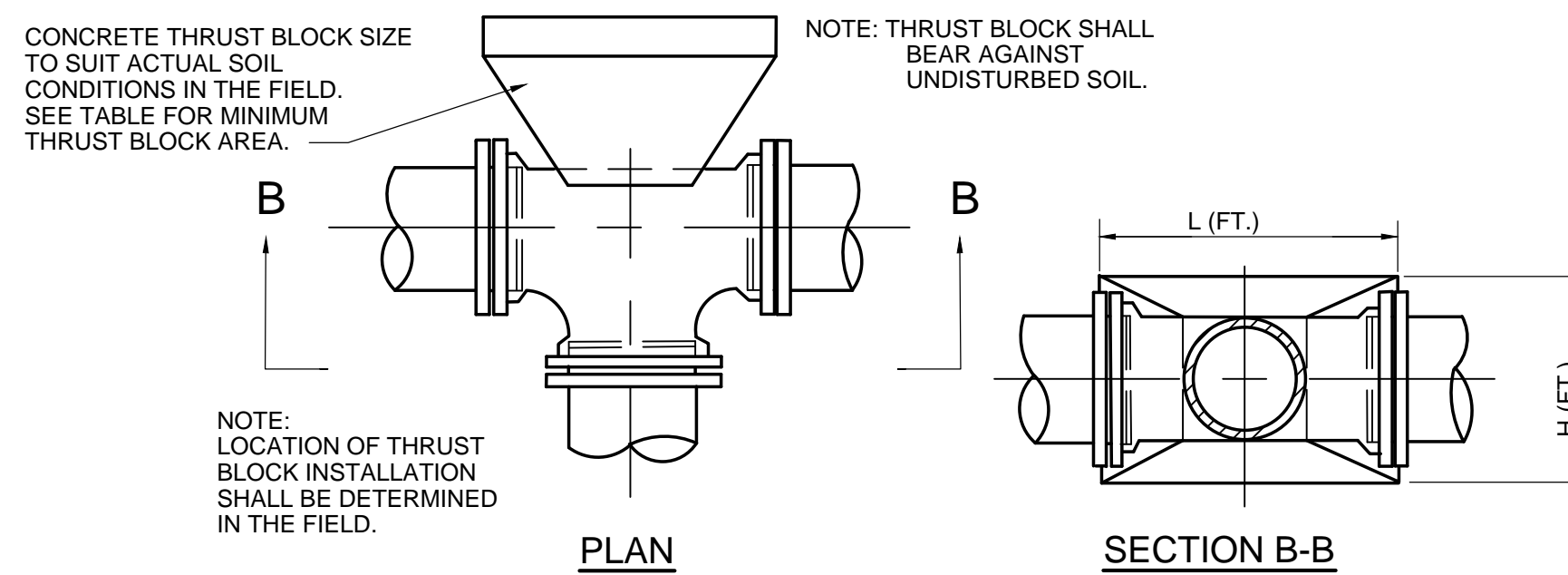
FIRE HYDRANT CONNECTION TO WATER MAIN (TYPICAL)



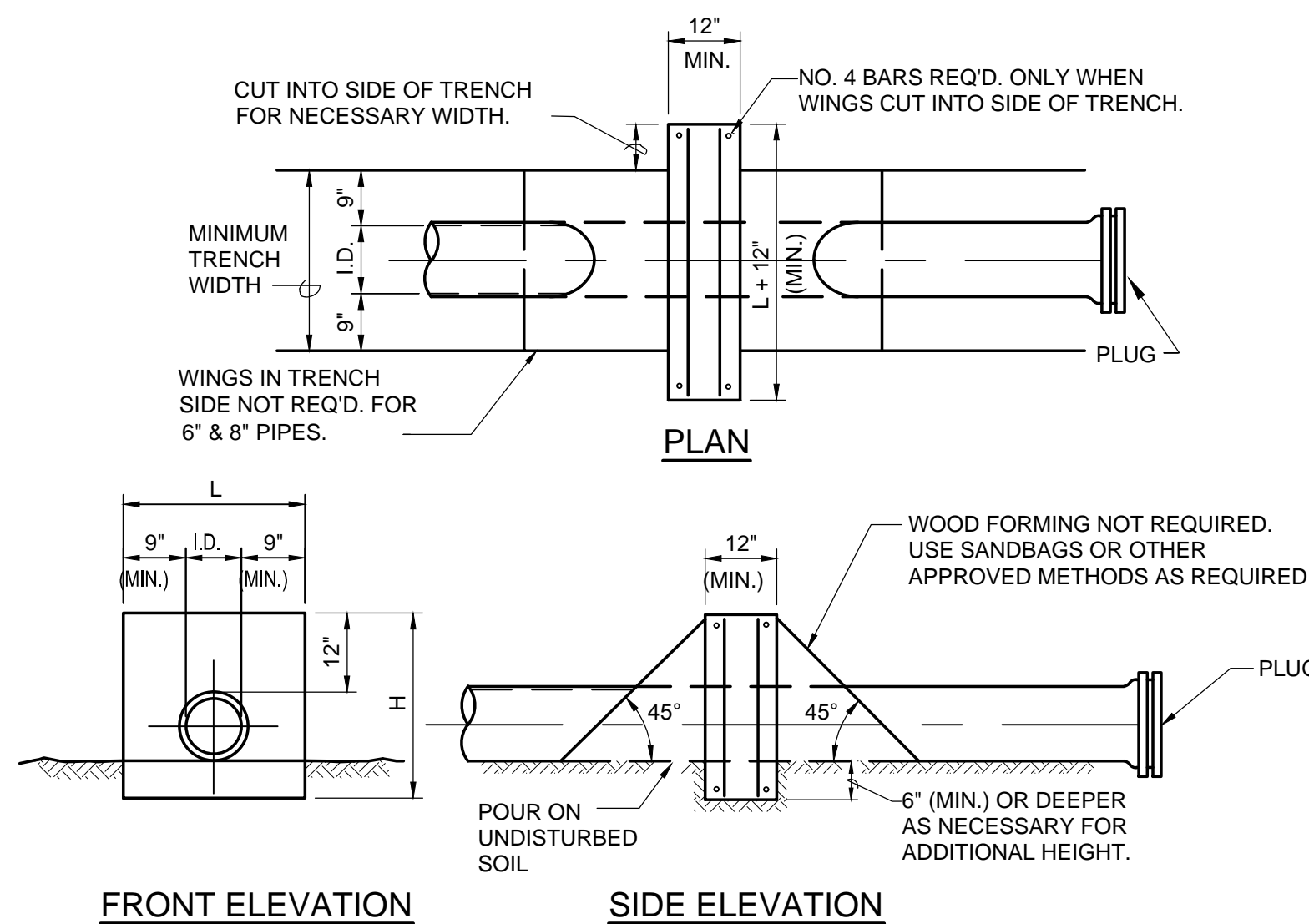
STUBOUT FOR FUTURE CONNECTION (TYPICAL)



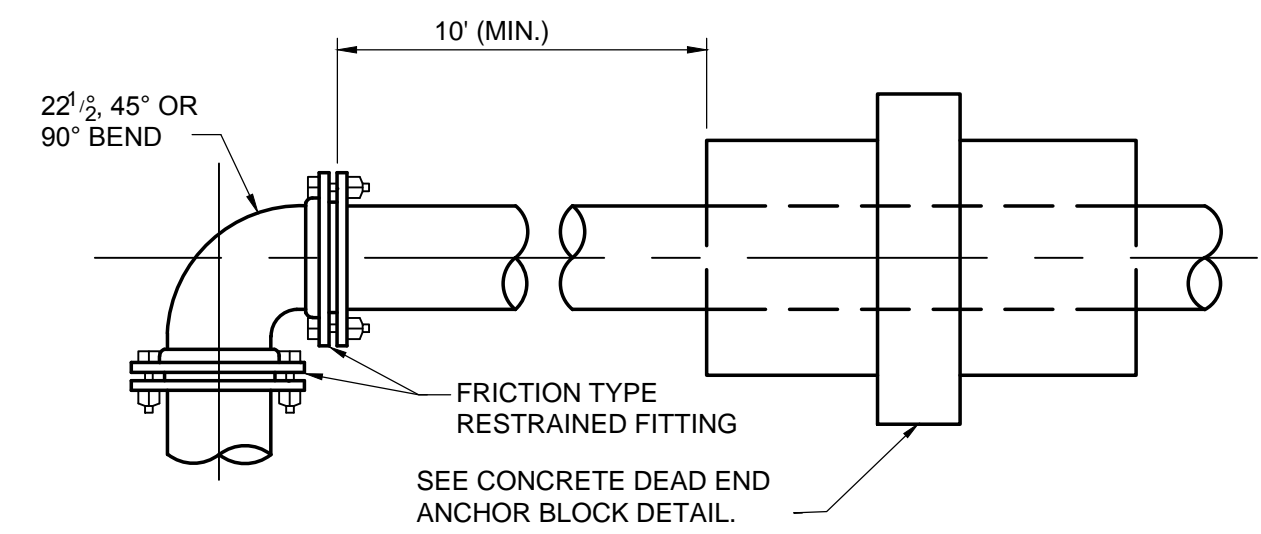
TYPICAL THRUST BLOCK DETAIL FOR BENDS



TYPICAL THRUST BLOCK DETAIL FOR TEES

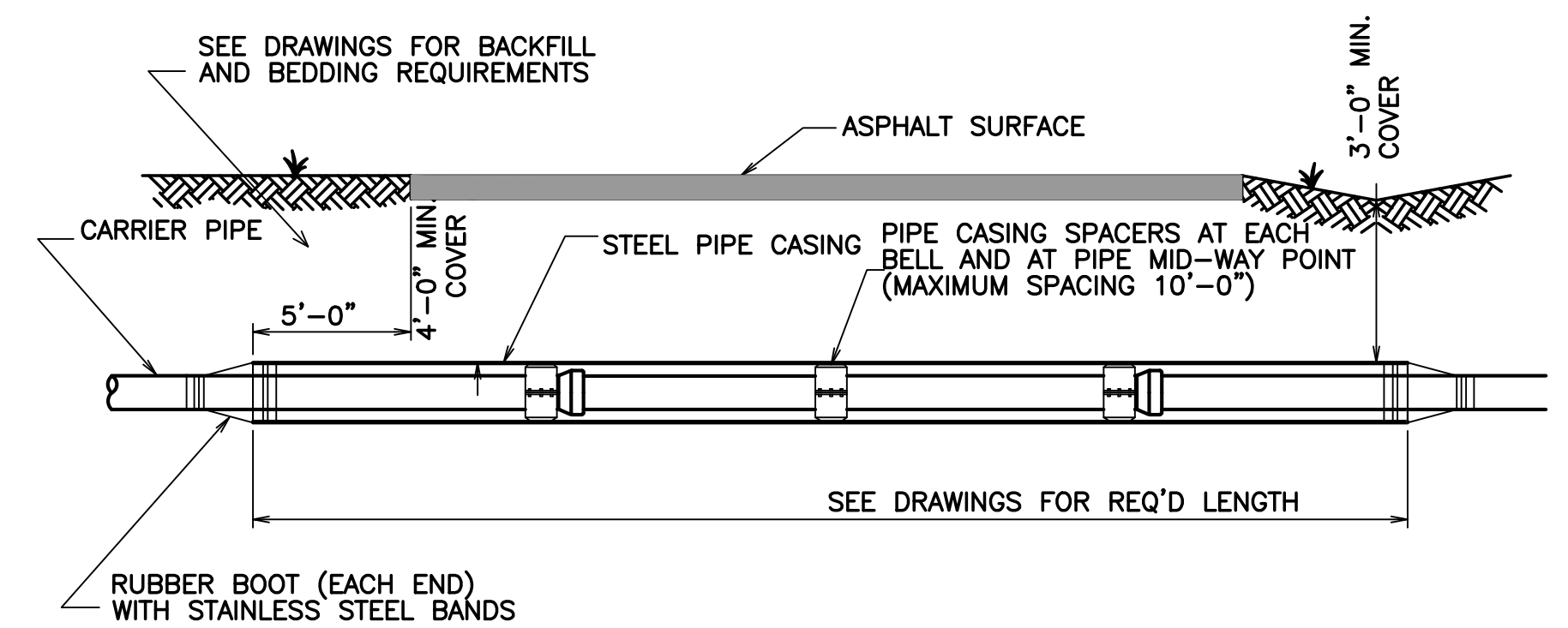


CONCRETE DEAD END ANCHOR BLOCK DETAILS



ANCHORAGE OF BENDS WHERE THRUST BLOCKS ARE NOT DESIRED - DEAD END ANCHORS

TYPICAL THRUST BLOCKS MINIMUM THRUST BLOCK AREA SQ. FT. L (FT.) X H (FT.)			
INSIDE DIA. PIPE LINE IN INCHES	90° BENDS	TEES, DEAD ENDS, OR 45° BENDS	22 1/2° BENDS
6"	3.0	2.2	1.0
8"	5.5	4.0	1.5
10"	8.5	6.0	2.5
12"	12.0	9.0	3.5
16"	22.0	16.0	6.0
18"	27.0	20.0	8.0
20"	34.0	24.0	10.0
24"	48.0	34.0	14.0
30"	75.0	53.0	21.0



DETAIL - TYPICAL UTILITY ENCASMENT

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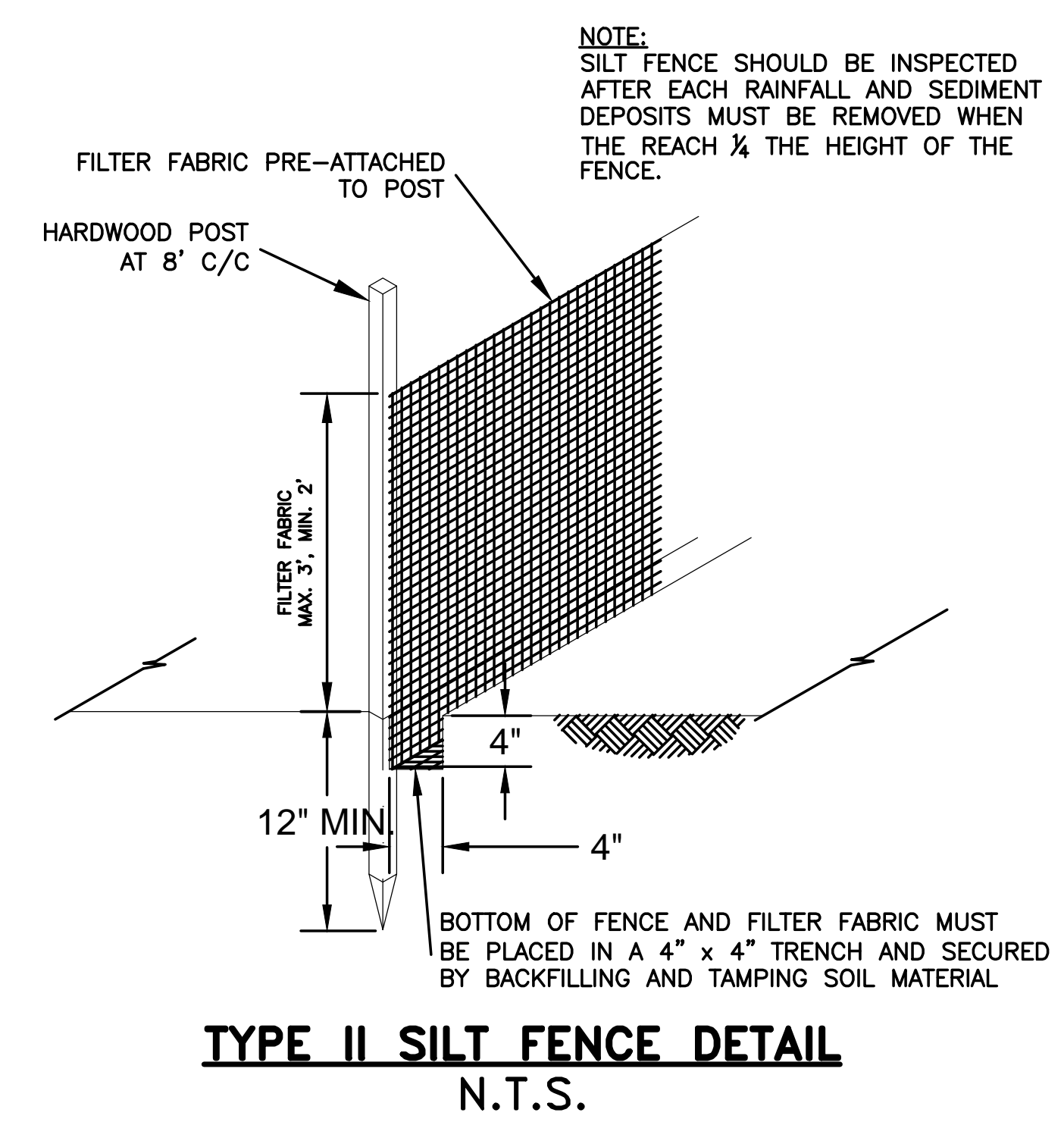
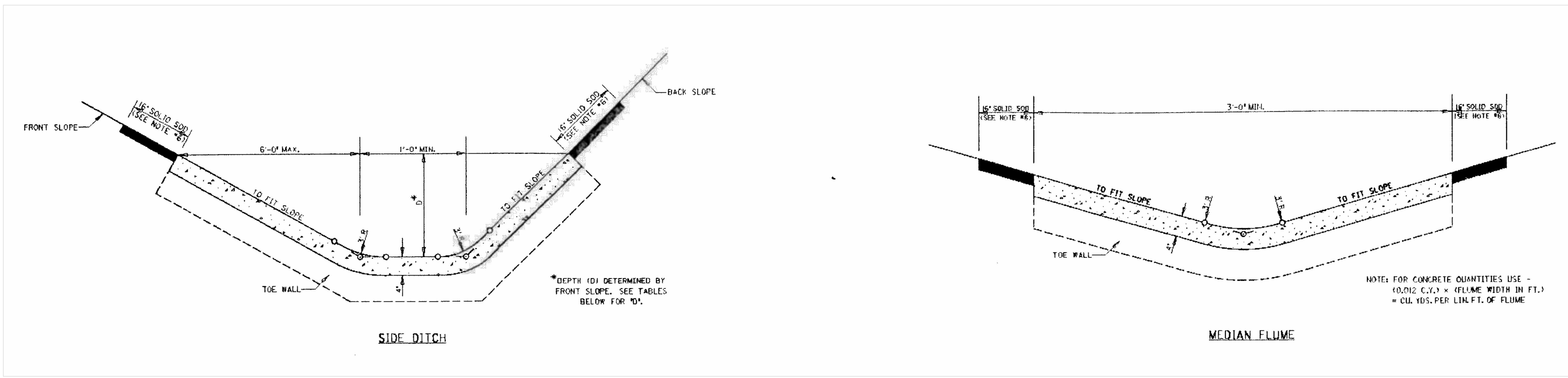
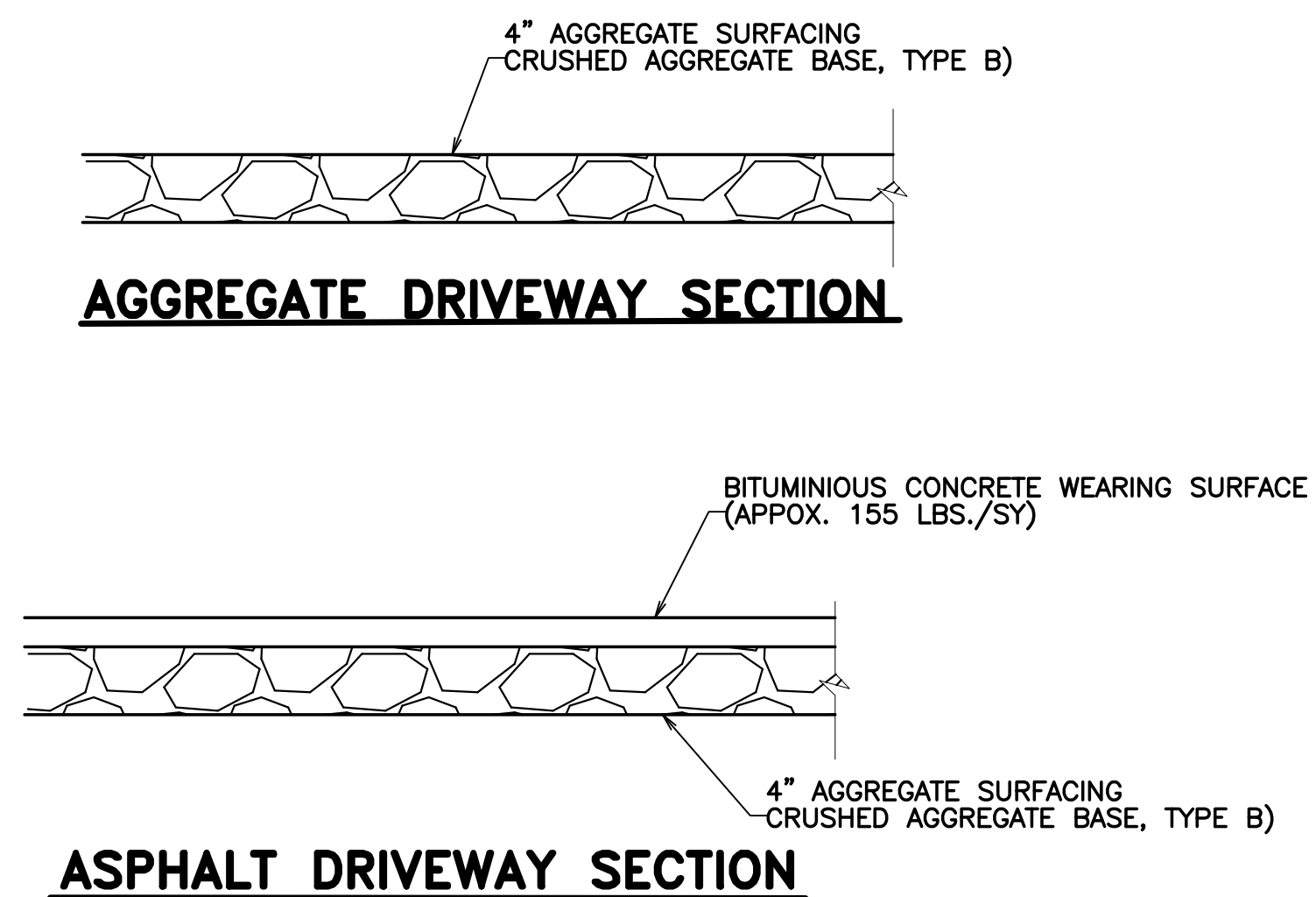
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CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

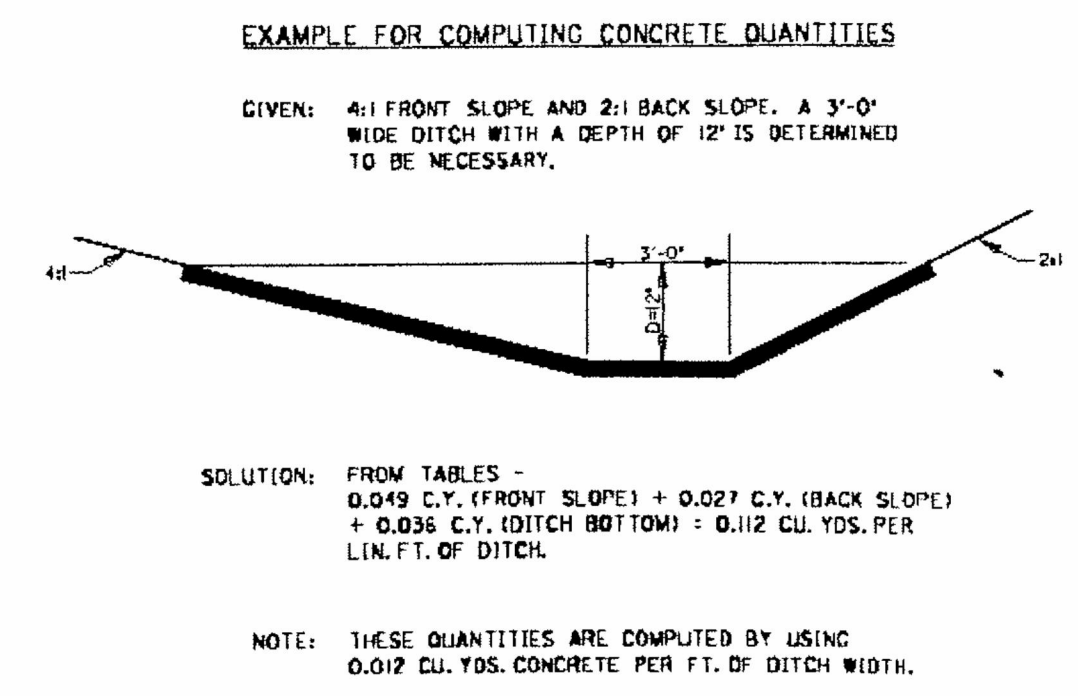
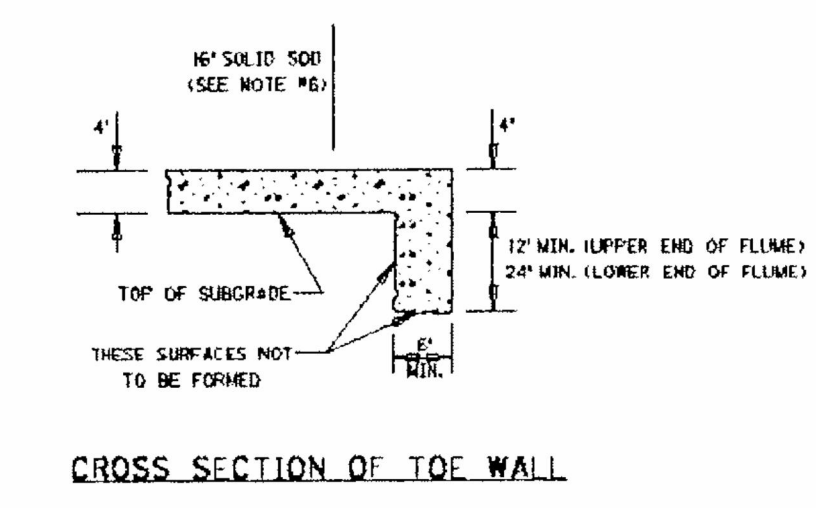
UTILITY DETAILS

SCALE	PLOT SCALE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	S. NO.	DRAWING NO.	REVISION NO.
AS NOTED	1:1	MJ	LJG	MJ	11/12	12-2111-0072	C4.1	0



SLOPE	'D'	SLOPE LENGTH	C.Y. CONC. /SLOPE
6:1	12' MAX.	6.08'	.073
	6'	3.04'	.036
4:1	18' MAX.	6.18'	.074
	6'	2.06'	.025
3:1	24' MAX.	6.32'	.076
	18'	4.74'	.057
2:1	12'	3.16'	.038
	6'	1.58'	.019
1:1	36' MAX.	6.71'	.080
	30'	5.59'	.067
	24'	4.47'	.054
	18'	3.35'	.040
	12'	2.24'	.027
	6'	1.12'	.013
1:1	72' MAX.	8.49'	.102
	66'	7.78'	.093
	60'	7.07'	.085
	54'	6.36'	.076
	48'	5.66'	.068
	42'	4.95'	.059
1:1	36'	4.24'	.051
	30'	3.54'	.042
	24'	2.83'	.034
	18'	2.12'	.025
1:1	12'	1.41'	.017
1:1	6'	0.71'	.008

CU. YDS. CONCRETE PER FT. BOTTOM WIDTH							
BOTTOM WIDTH							
1'	2'	3'	4'	5'	6'	7'	8'
.012	.024	.036	.048	.060	.072	.084	.096



- NOTES:**
1. EXPANSION JOINT MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 832.01 ALDOT SPECS.
 2. ON STEEP SLOPES ADDITIONAL TOE WALLS MAY BE REQUIRED IF DIRECTED BY THE ENGINEER.
 3. SOLID SOD MAY BE PLACED AT SHOWN LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER FOR EROSION CONTROL WHEN PROVIDED IN PLAN QUANTITIES.

DETAILS OF PAVED DITCHES AND FLUMES

N.T.S.

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REVISION NO.	REV	DESCRIPTION	DESC.	DATE	DATE	BY	BY

FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY

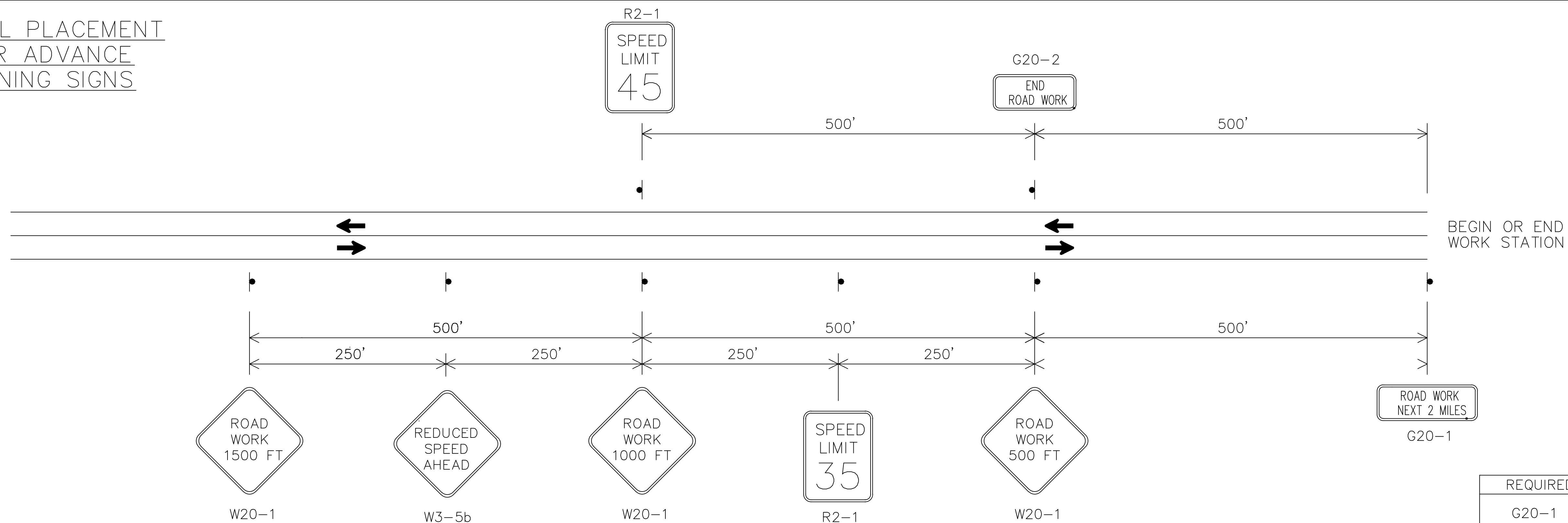
thompson ENGINEERING
218 N. ALSTON ST.
TOLLEY, ALABAMA 36535
TEL: (251) 970-2880
FAX: (251) 970-2884

CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

CONSTRUCTION DETAILS

AS NOTED	1:1	MJ	LJG	MJ	11/12	12-2111-0072	C4.2	0
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TYPICAL PLACEMENT
FOR ADVANCE
WARNING SIGNS

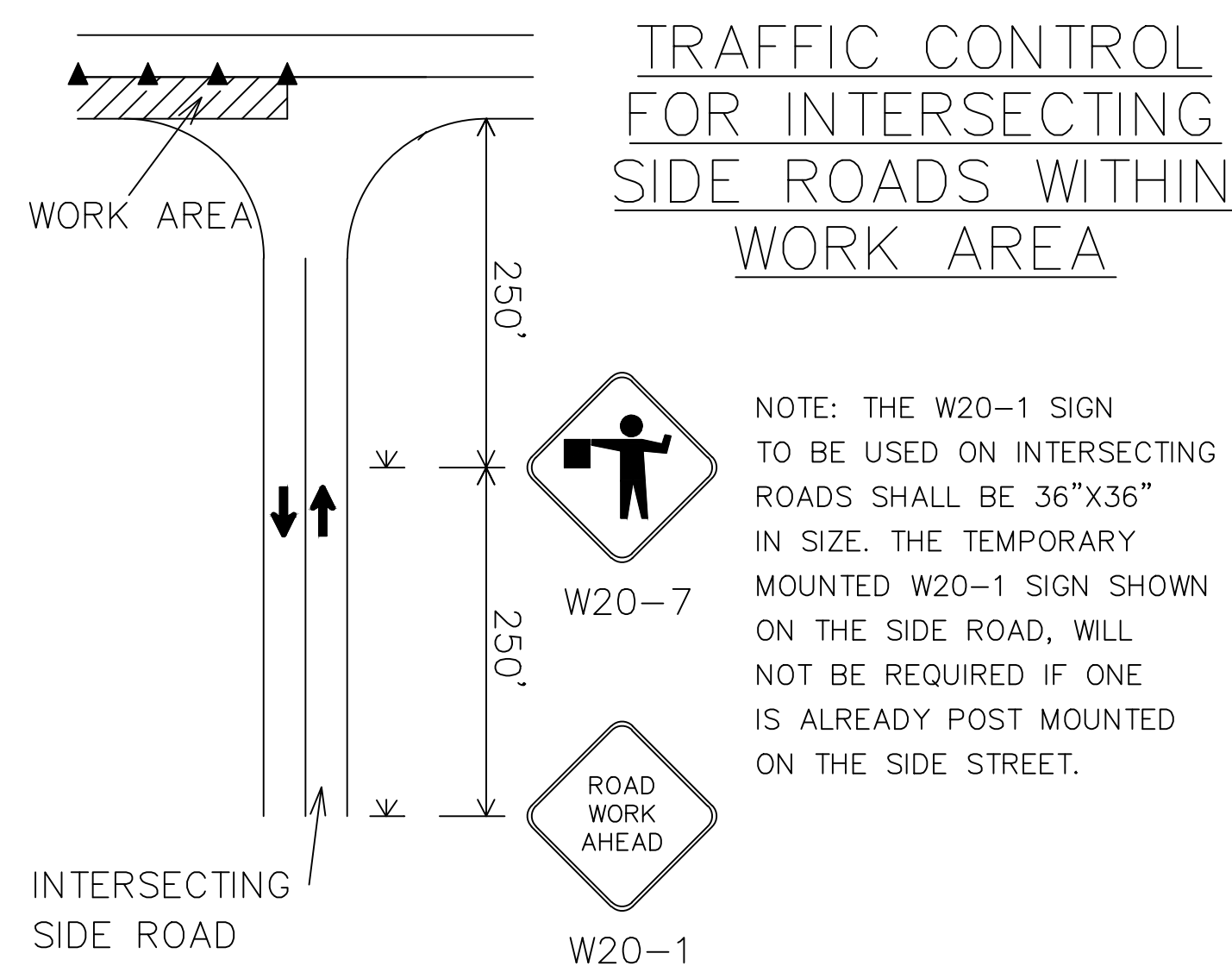


GENERAL NOTES

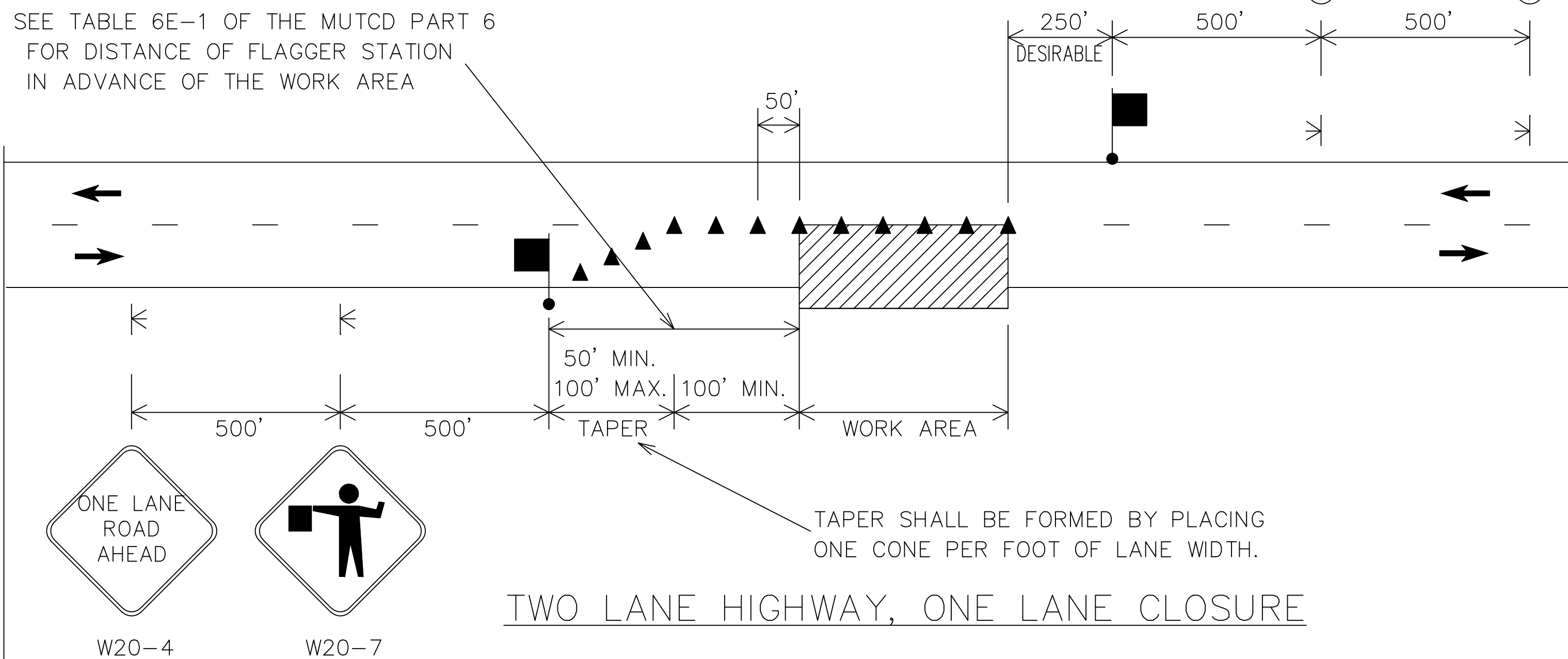
1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED. 2. SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN(ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

REQUIRED SIGN SIZES	
G20-1	60" X 24"
G20-2	48" X 24"
R2-1	24" X 30"
W3-5b	48" X 48"
R16-3	48" X 60"
R16-3a	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

SEE TABLE 6E-1 OF THE MUTCD PART 6 FOR DISTANCE OF FLAGGER STATION IN ADVANCE OF THE WORK AREA



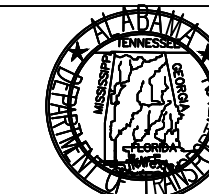
NOTE: THE W20-1 SIGN TO BE USED ON INTERSECTING ROADS SHALL BE 36"X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 SIGN SHOWN ON THE SIDE ROAD, WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.



LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- FLAGGER
- WORK AREA

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR
TWO LANE HIGHWAYS

DRAWN BY: _____ INDEX NO. 2002
DATE DRAWN: 10/30/2012 SPECIAL PROJECT DETAIL

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

REV	DESCRIPTION	DESC.	DATE	DATE	BY	BY

FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY



218 N. ALSTON ST.
TOLLEY, ALABAMA 36535

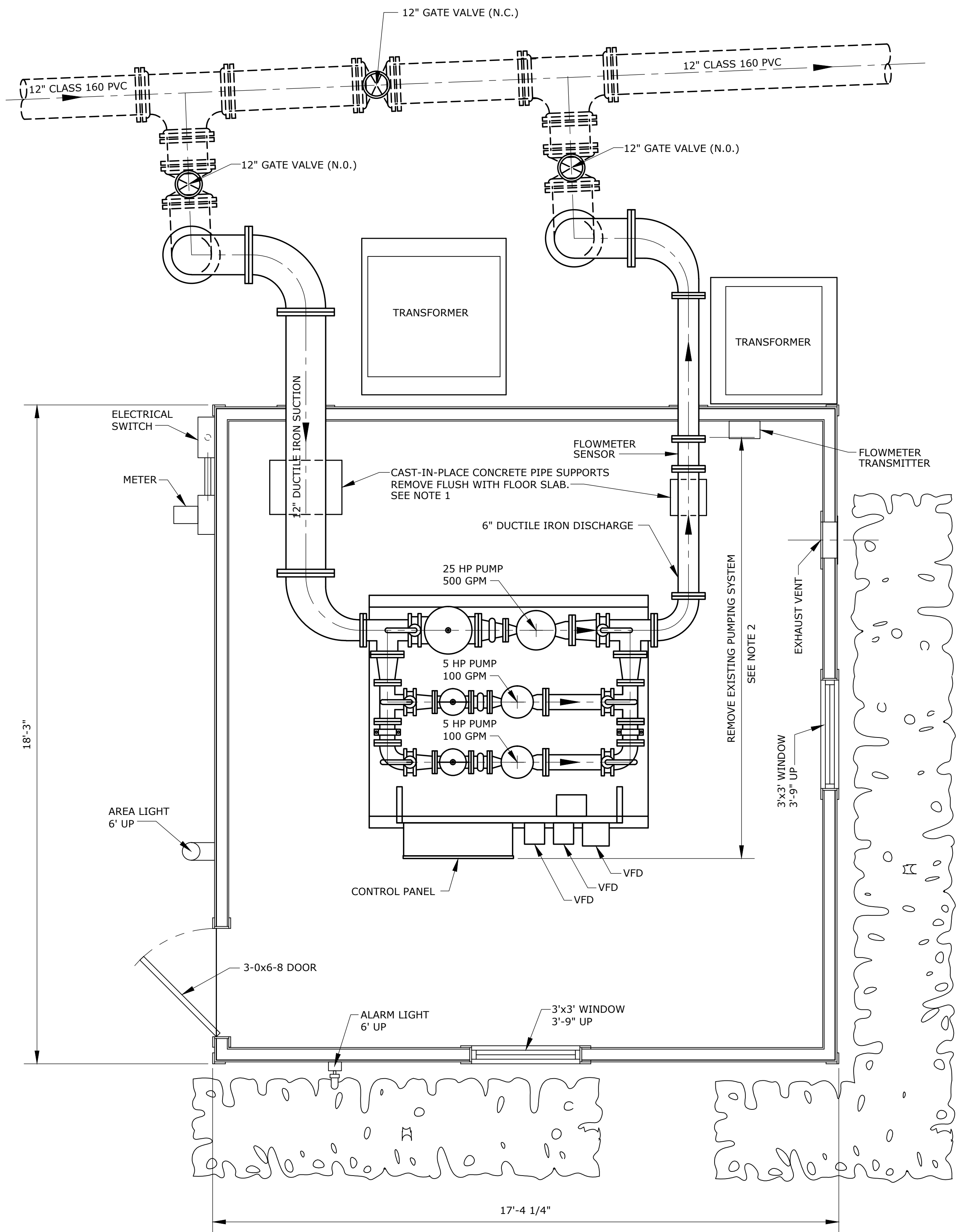
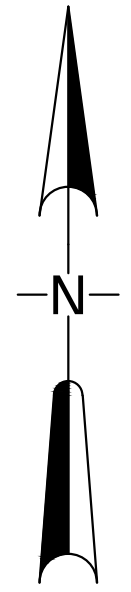
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FAX: (251) 970-2884

SCALE	PLAT SCALE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	S. NO.	DRAWING NO.	REVISION NO.
AS NOTED	1:1	MJ	LJG	MJ	11/12	12-2111-0072	C5.0	0

CR 13 AND HWY 104 WATER
MAIN IMPROVEMENTS AND SOUTH DR.
BOOSTER STATION UPGRADE

TRAFFIC CONTROL PLAN

Drawing name: P:\2012\12-2111-0072 Fairhope Waterline\Rock Creek Booster Station\Working\Mechanical\BS-1 Exist Floor Plan.dwg Plotted on: Mar 12, 2013 - 2:12pm



EXISTING FLOOR PLAN
SCALE: 1/2" = 1'-0"

- NOTES:**
- REPAIR ALL DISTURBED AREAS OF THE CONCRETE FLOOR WITH CONCRETE PATCHING COMPOUND, HYDRAULIC CEMENT.
 - THE CONTRACTOR SHALL CAREFULLY REMOVE PUMPS, PIPING, CONTROLS, ROOF HATCH, ETC. INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE THOSE ITEMS IDENTIFIED BY THE OWNER AS SALVAGEABLE DELIVERED TO THE OWNER DESIGNATED PLACE OF STORAGE.

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REV	DESC.	DATE	BY

FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY

thompson ENGINEERING[®]
218 N. ALSTON ST.
FOLEY, ALABAMA 36535
SCALE: AS NOTED

TEL: (251) 970-2880
FAX: (251) 970-2884

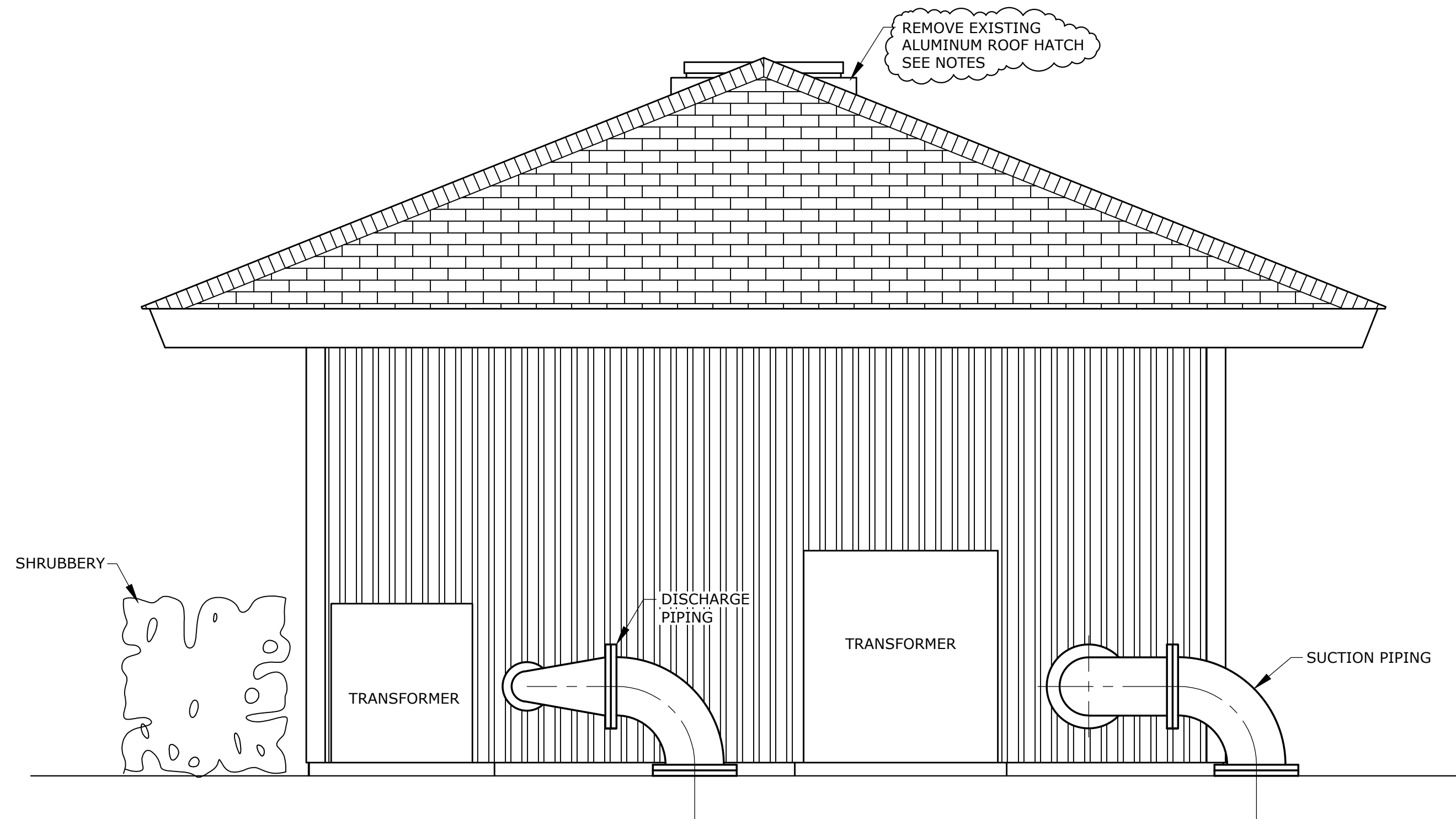
PLANT SCALE: 1:24
DRAWN BY: J.L.BATES
CHECKED BY: L.J.G.
APPROVED BY: M.J.

CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

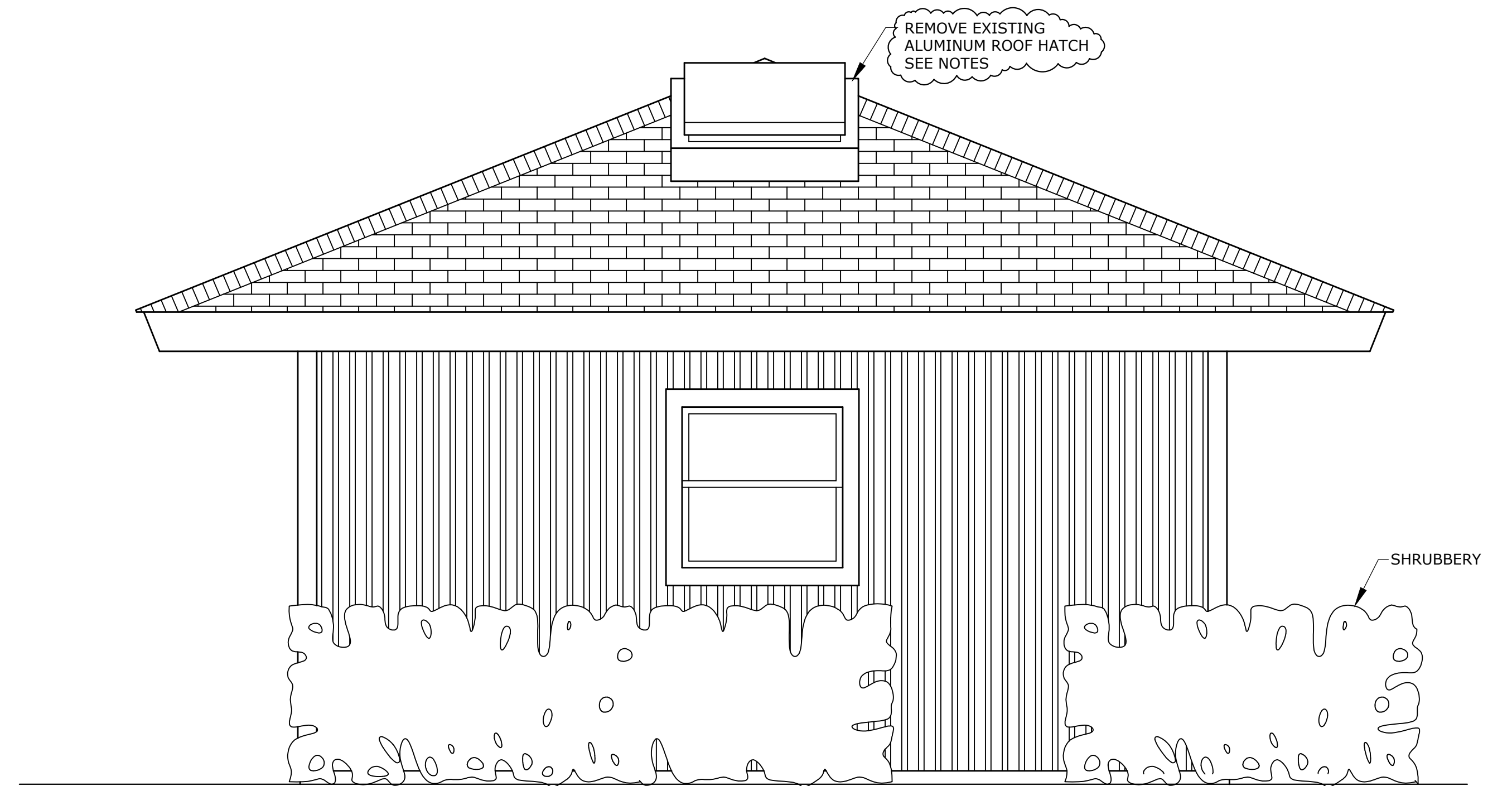
ROCK CREEK BOOSTER STATION EXISTING FLOOR PLAN

DATE: MARCH 12, 2013
JOB NO.: 12-2111-0072
DRAWING NO.: BS-1
REVISION NO.: 0

Drawing name: P:\2012\2111\12-2111-0072 Fairhope Waterline\Rock Creek Booster Station\Working\Mechanical\BS-2 Exist Bld Elevations.dwg Plotted on: Mar-12, 2013 - 2:14pm



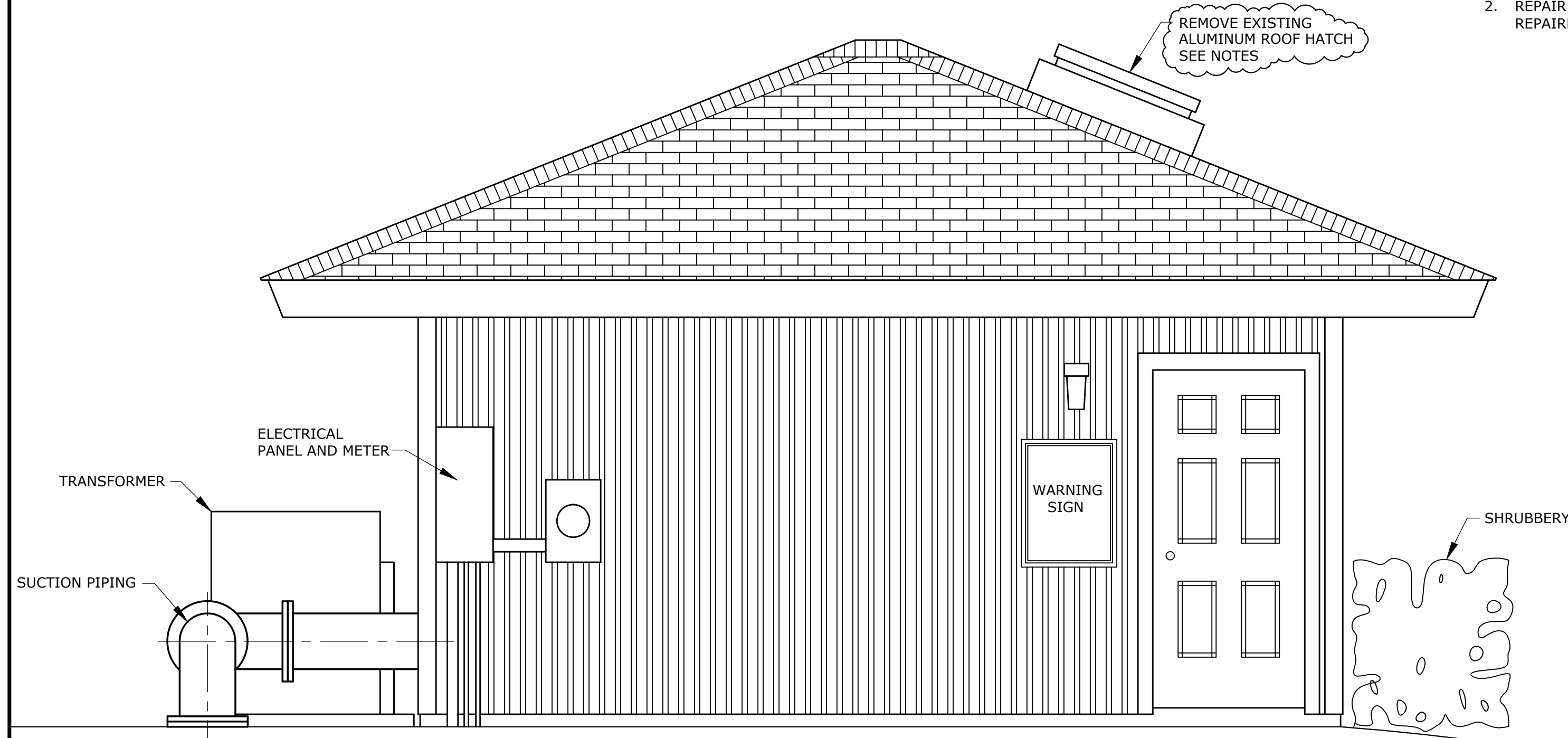
NORTH ELEVATION
SCALE: 1/2" = 1'-0"



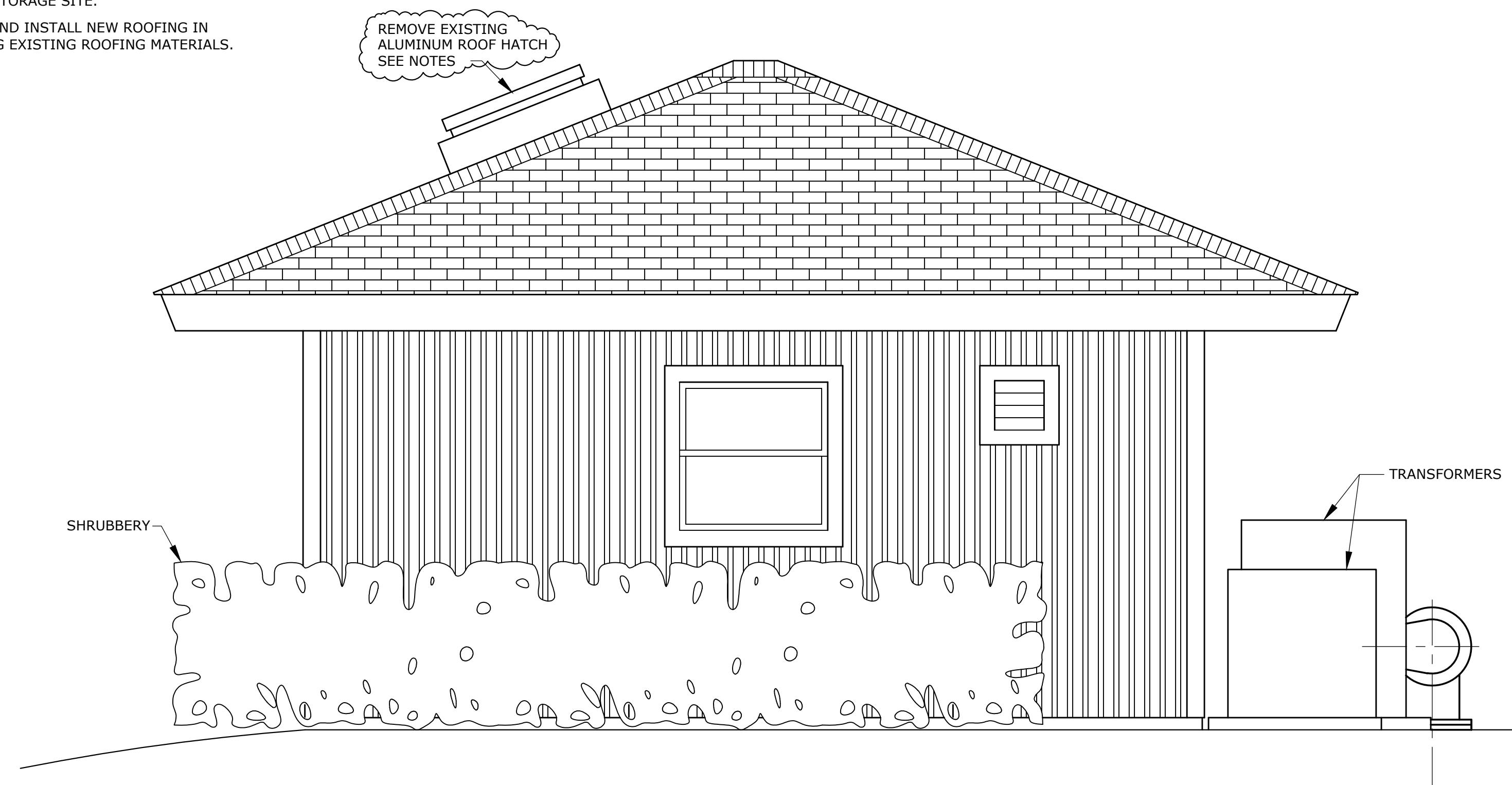
SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

NOTES

1. REMOVE EXISTING ALUMINUM ROOF HATCH AND DELIVER TO OWNER DESIGNATED STORAGE SITE.
2. REPAIR ROOF DECK AND AND INSTALL NEW ROOFING IN REPAIRED AREA MATCHING EXISTING ROOFING MATERIALS.



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



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

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REVISION NO.	DESCRIPTION	DATE	BY
REVISION NO.	DESCRIPTION	DATE	BY
REVISION NO.	DESCRIPTION	DATE	BY
REVISION NO.	DESCRIPTION	DATE	BY

FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY



218 N. ALSTON ST.
FOLEY, ALABAMA 36535
SCALE:

TEL: (251) 970-2880
FAX: (251) 970-2884

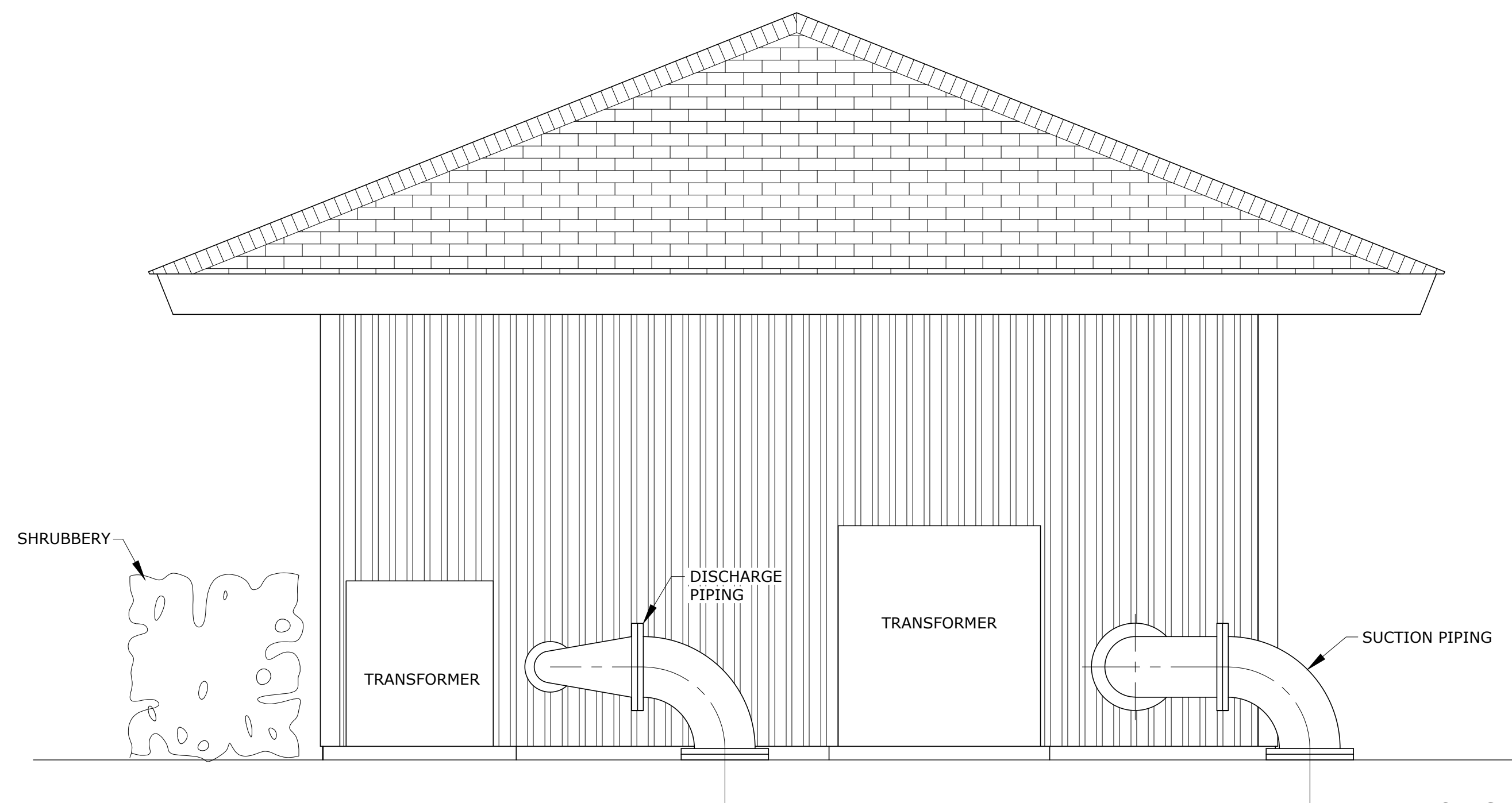
PLOT SCALE: 1:24
DRAWN BY: J.L.BATES
CHECKED BY: LJG
APPROVED BY: MJ

**CR 13 AND HWY 104 WATER
MAIN IMPROVEMENTS AND SOUTH DR.
BOOSTER STATION UPGRADE**

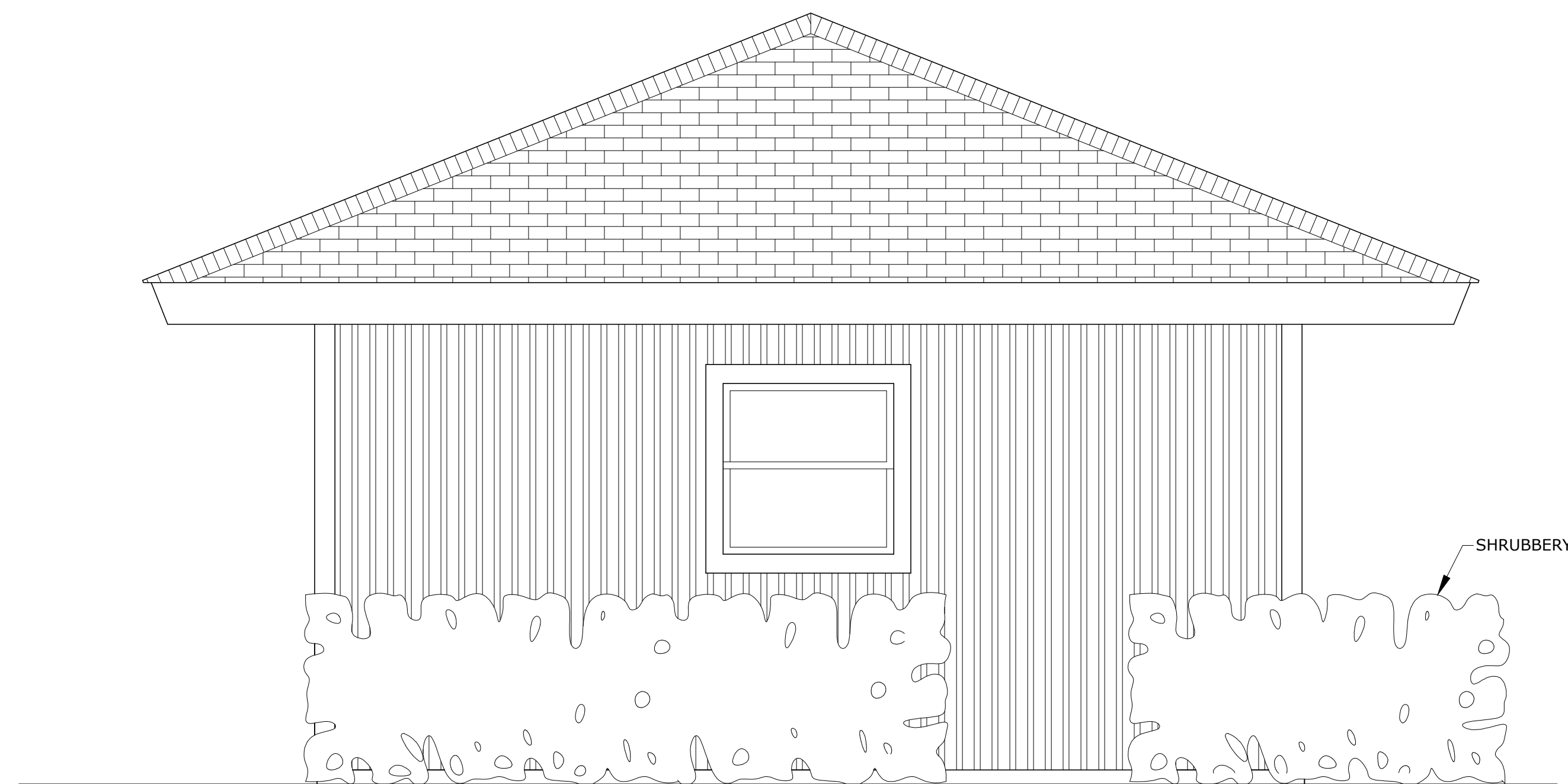
**ROCK CREEK BOOSTER STATION
EXISTING BUILDING ELEVATIONS**

DATE: MARCH 12, 2013
JOB NO.: 12-2111-0072
DRAWING NO.: BS-2
REVISION NO.: 0

Drawing name: P:\2012\2111\12-2111-0072 Fairhope Waterline\Rock Creek Booster Station\Working\Mechanical\BS-3 Revised Bldg.Elevations.dwg Plotted on: Mar 12, 2013 - 2:16pm



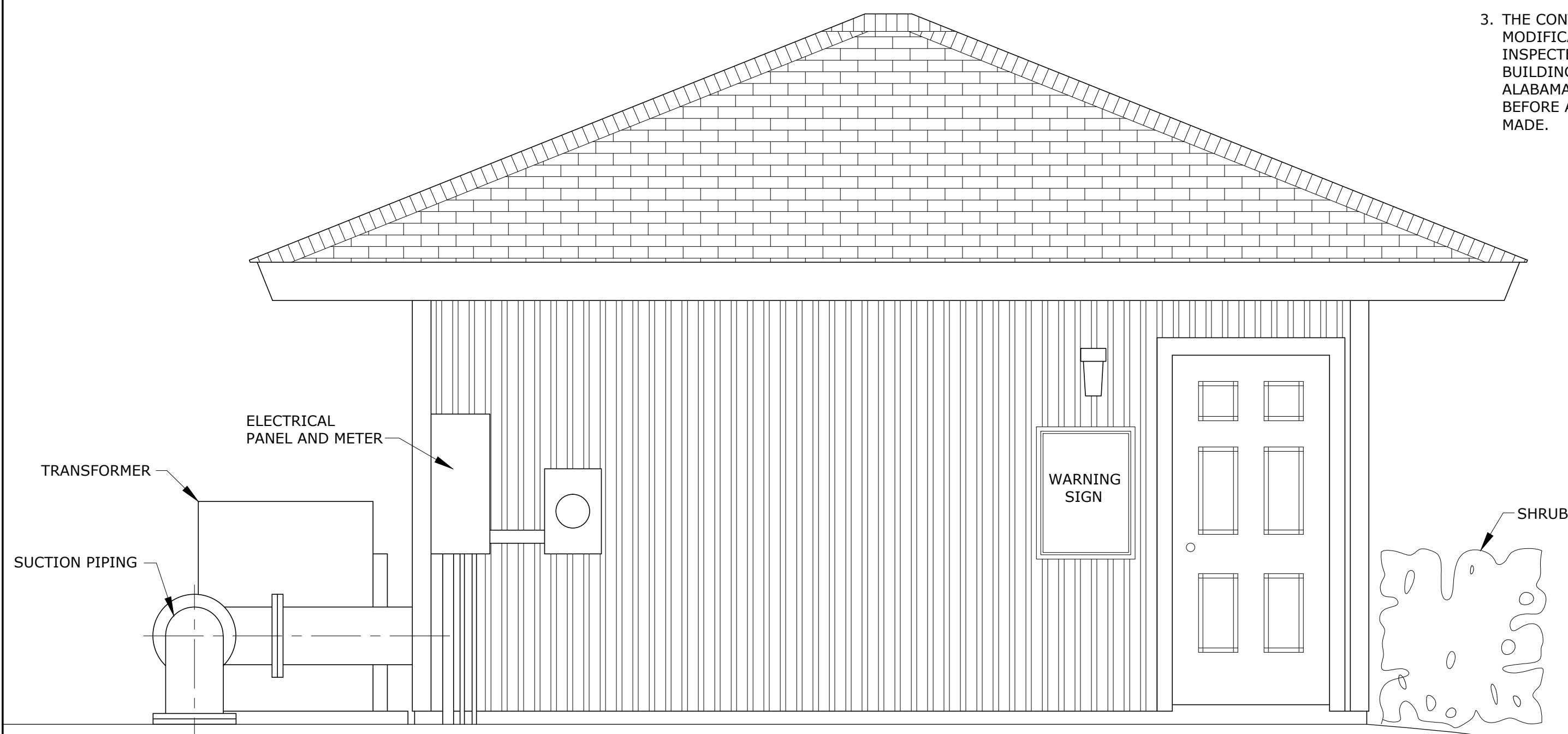
NORTH ELEVATION
SCALE: 1/2" = 1'-0"



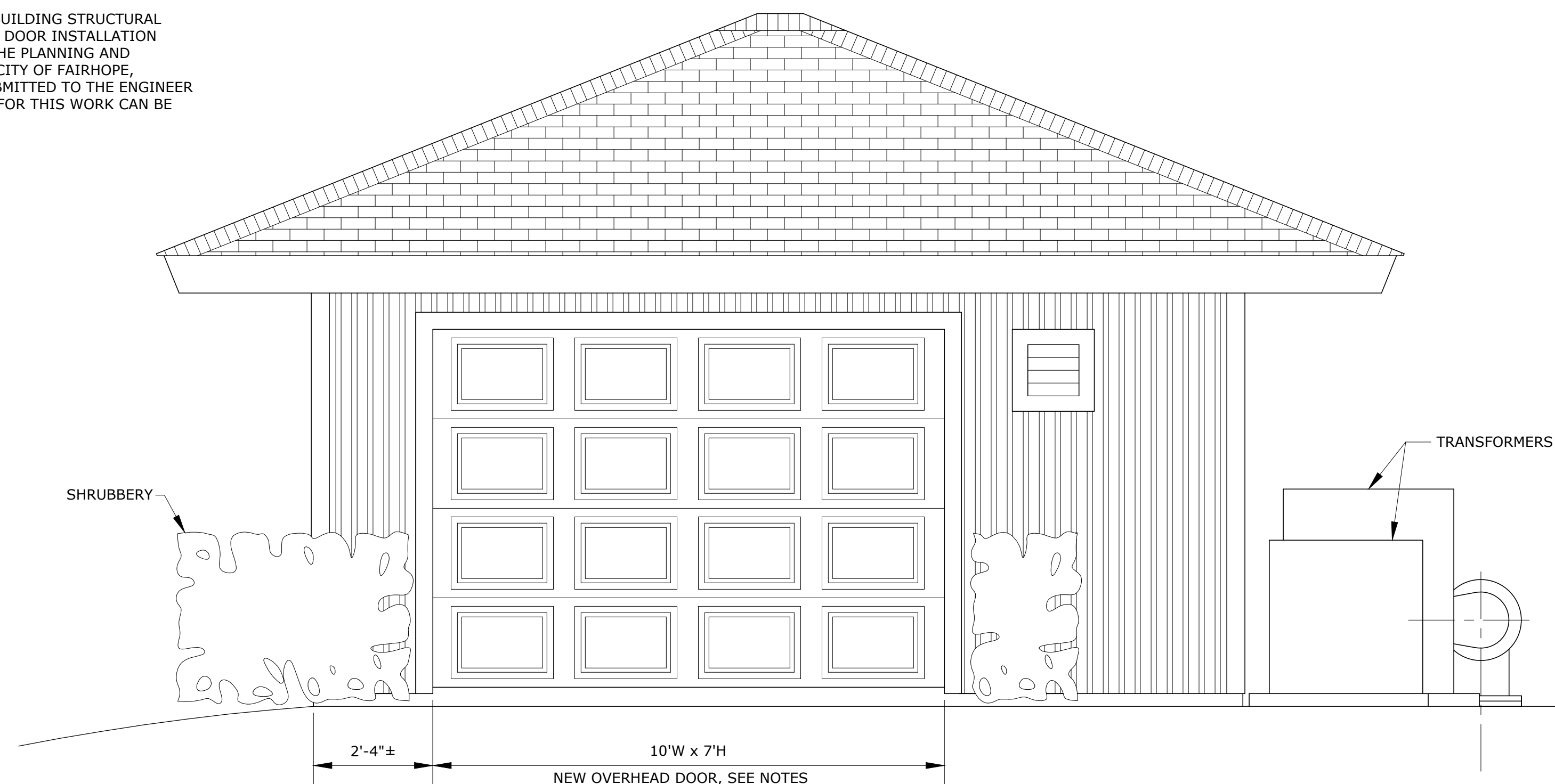
SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

NOTES:

1. INSTALL NEW 10' WIDE x 7' HIGH STEEL, PANELED, RESIDENTIAL OVERHEAD DOOR IN ACCORDANCE WITH SPECIFICATION SECTION 08362. EXISTING WALL HEIGHT: 8'-0" FROM FLOOR SLAB TO TOP PLATE.
2. REMOVE EXISTING SHRUBBERY TO ALLOW ACCESS TO NEW OVERHEAD DOOR. SOLID SOD ALL GROUND AREAS DISTURBED BY CONSTRUCTION.
3. THE CONTRACTOR SHALL HAVE BUILDING STRUCTURAL MODIFICATIONS AND OVERHEAD DOOR INSTALLATION INSPECTED AND APPROVED BY THE PLANNING AND BUILDING DEPARTMENT OF THE CITY OF FAIRHOPE, ALABAMA, AND SUCH PROOF SUBMITTED TO THE ENGINEER BEFORE APPROVAL OF PAYMENT FOR THIS WORK CAN BE MADE.



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



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

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FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY



218 N. ALSTON ST.
FOLEY, ALABAMA 36535
SCALE:

PLOT SCALE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TEL: (251) 970-2880
FAX: (251) 970-2884

AS NOTED

1:24

J.L.BATES

LJG

MJ

DATE:

MARCH 12, 2013

JOB NO.:

12-2111-0072

DRAWING NO.:

BS-3

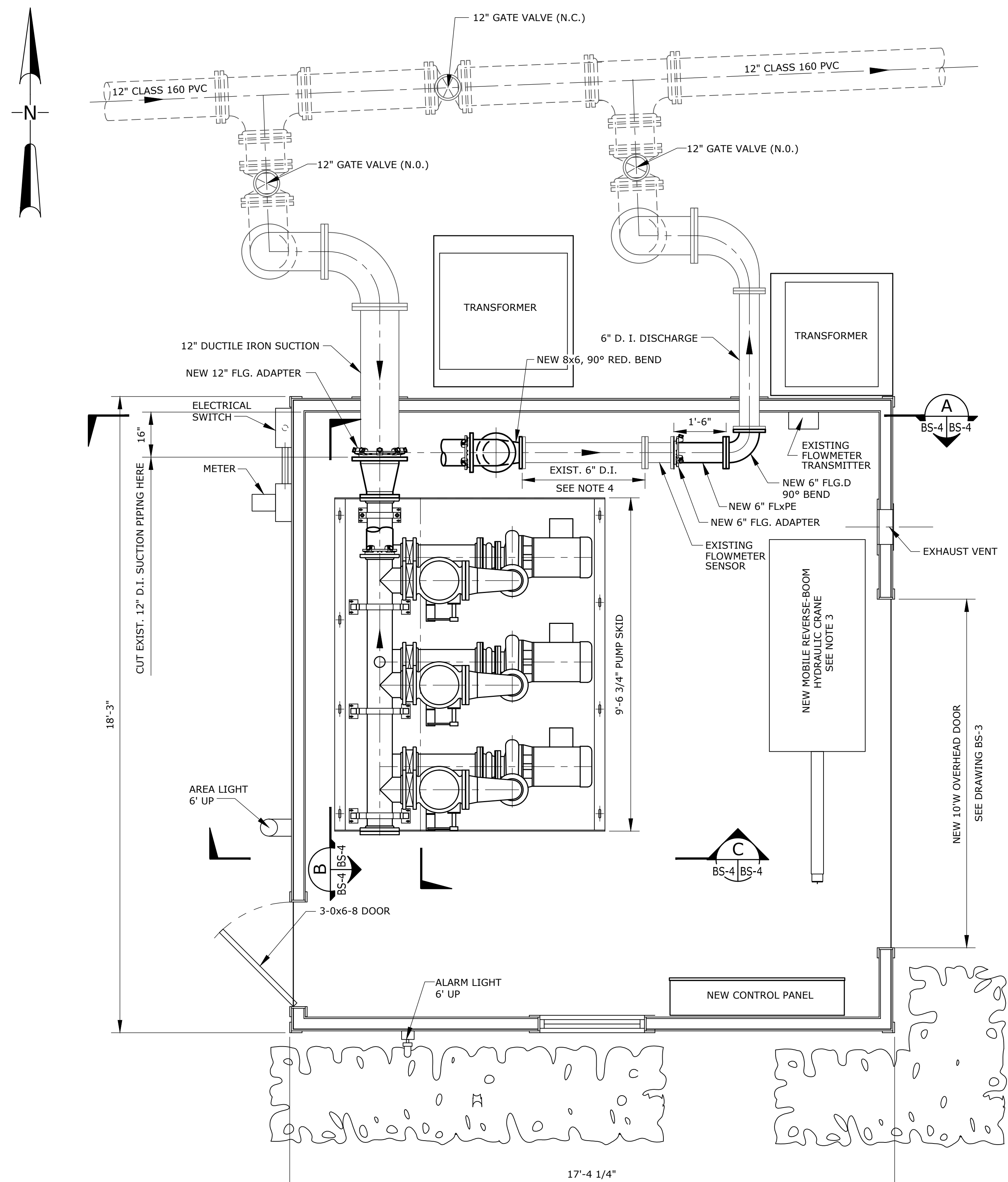
REVISION NO.:

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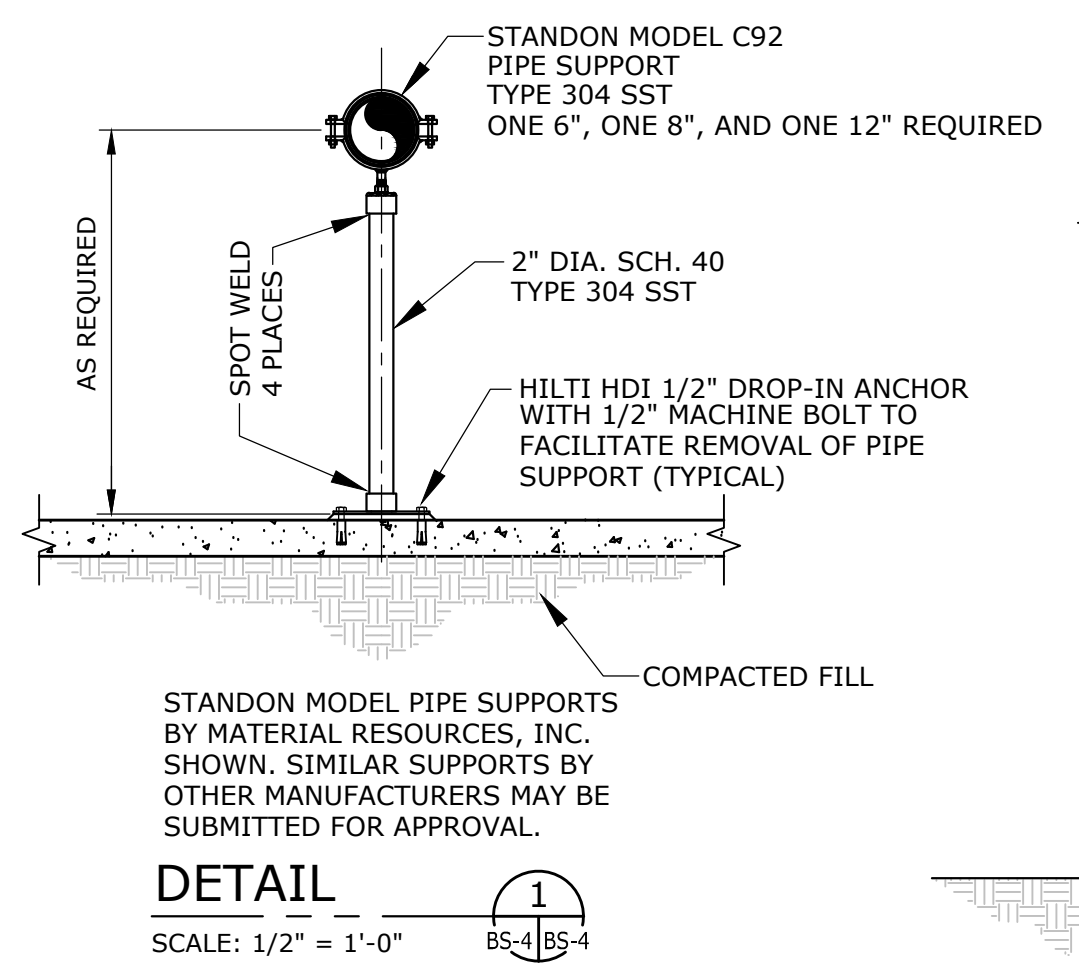
**CR 13 AND HWY 104 WATER
MAIN IMPROVEMENTS AND SOUTH DR.
BOOSTER STATION UPGRADE**

**ROCK CREEK BOOSTER STATION
REVISED BUILDING ELEVATIONS**

Drawing name: P:\2012\12-2111-0072 Fairhope Waterline\Rock Creek Booster Station\Working\Mechanical\BS-4 New Floor Plan.dwg Plotted on: Mar 12, 2013 - 2:19pm

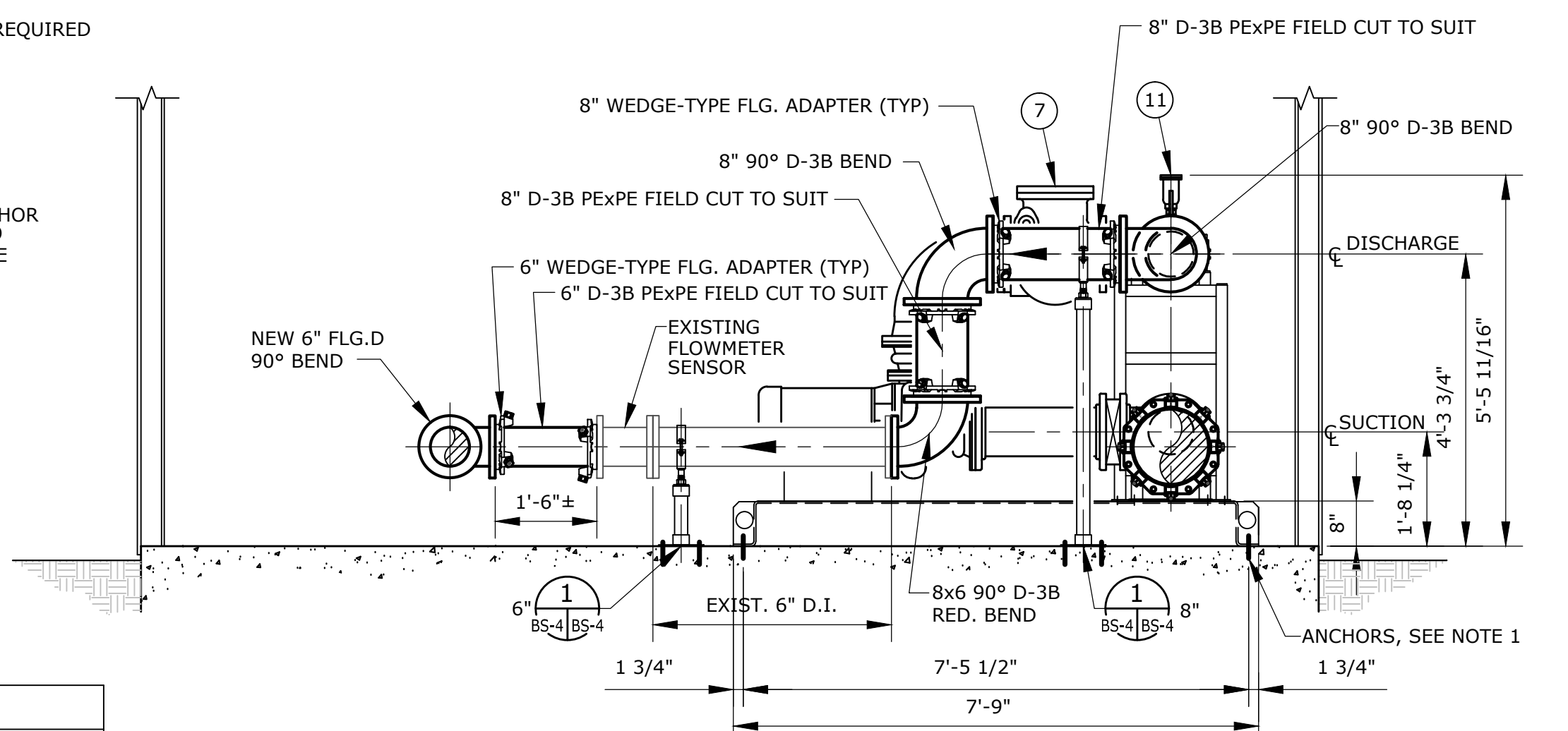


NEW FLOOR PLAN
SCALE: 1/2" = 1'-0"



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

PUMP SKID EQUIPMENT LEGEND			
ITEM	DESCRIPTION	MATERIAL & SIZE	
1	PUMP	CAST IRON	E4N11A-CC
2	STATION BASE	STEEL	
3	REDUCING EXPANSION JOINT	E.L. STEEL	ECC. 8" X 6"
4	REDUCING EXPANSION JOINT	NEOPRENE	CONC. 6" X 4"
5	ELBOW REDUCING L.R.	E.L. STEEL	8" X 6"
6	BUTTERFLY VALVE	CAST IRON	8" H.W.
7	CHECK VALVE	CAST IRON	8" CUSHIONED
8	PIPE SUPPORT	STEEL	8"
9	SUCTION HEADER	E.L. STEEL	8"
10	DISCHARGE HEADER	E.L. STEEL	8"
11	1" AIR RELEASE VALVE	CAST IRON	

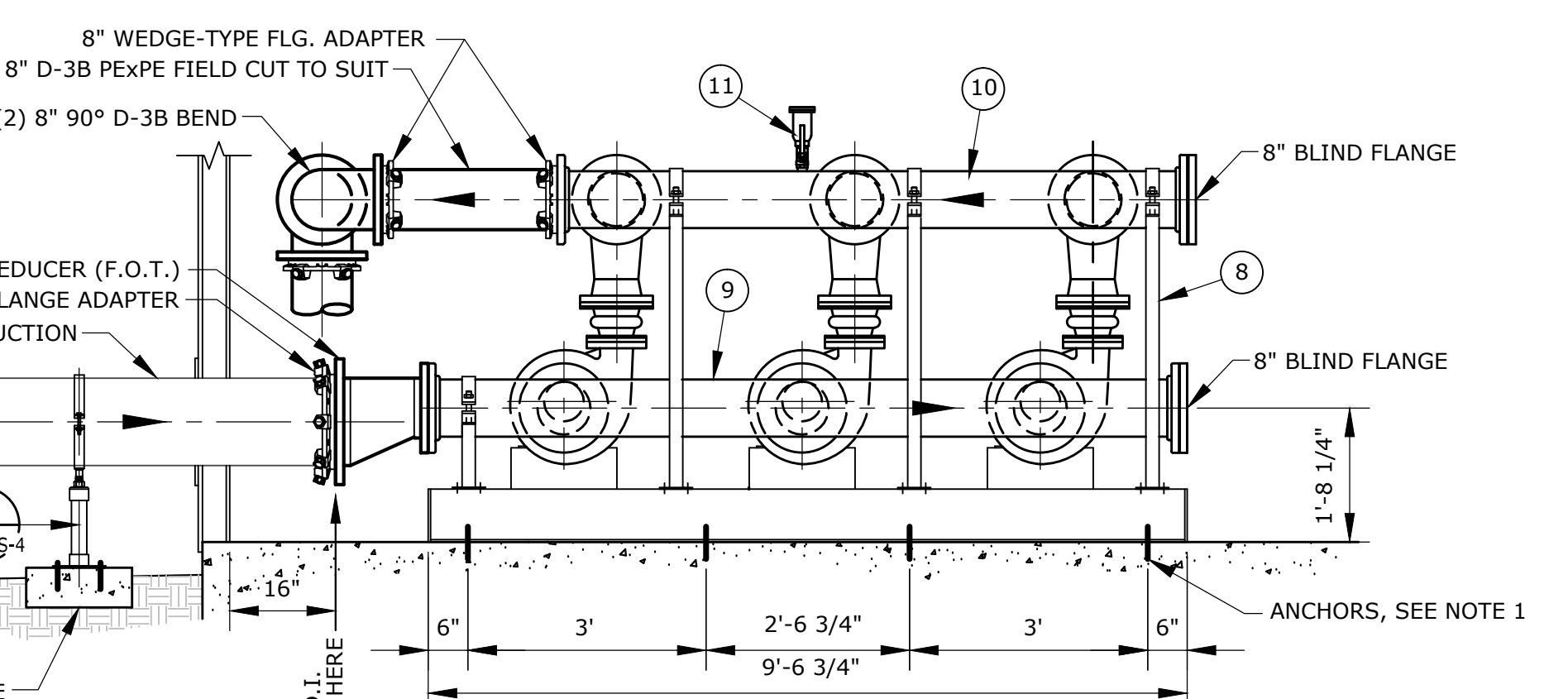


SECTION A
SCALE: 1/2" = 1'-0"

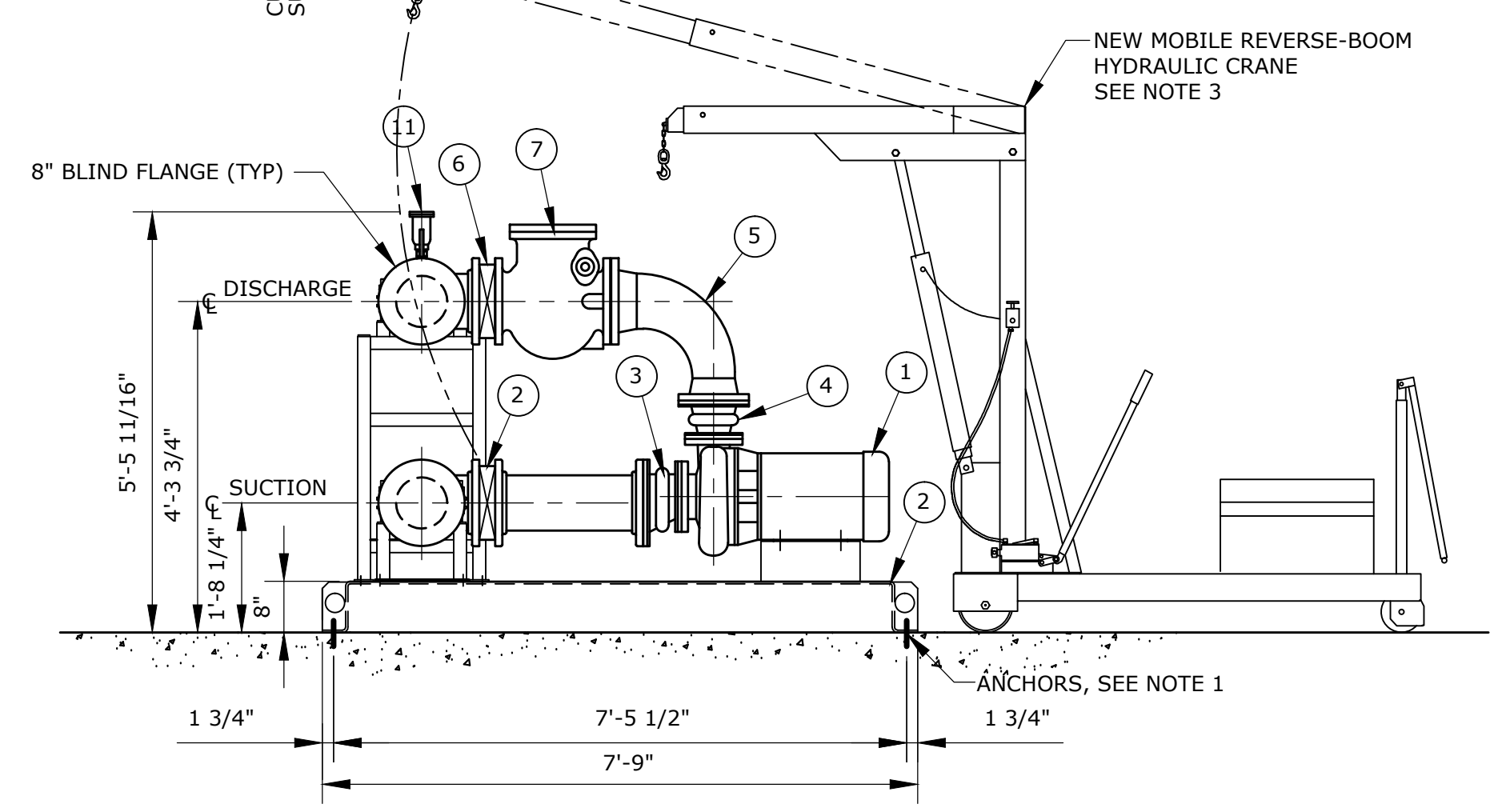
INLET PIPING MUST BE RAISED 4" INSTALL 12" DUCTILE IRON FLANGE FILLER OR CUSTOM SPOOL PIECE AT BASE OF EXISTING 12" D. I. 90° BEND

NOTES

- INSTALL EIGHT (8) 1/2"Ø 316L ALL-THREAD, CHEMICALLY-SET, ANCHOR BOLTS WITH FLAT AND LOCK WASHERS AND HEX NUTS. MINIMUM FLOOR SLAB PENETRATION = 3 1/2". ADHESIVE SHALL BE HILTI HIT C100, OR APPROVED EQUAL.
- ALL EXPOSED DUCTILE IRON PIPE AND FITTINGS ARE TO BE TYPE D-3B DELIVERED WITH EPOXY EXTERIOR COATING. IF PIPING USED IS ASPHALTIC COATED THEN THE COATING SHALL BE SAND-BLASTED TO BASE METAL, PRIMED AND PAINTED IN ACCORDANCE WITH SPECIFICATION SECTION 09900 "PAINTING." FINISH PAINTING OVER ASPHALTIC COATINGS WILL NOT BE ALLOWED. FINISH COLOR SHALL BE ANSI/NSF TRUE BLUE/SAFETY 115F.
- THE NEW MOBILE REVERSE-BOOM HYDRAULIC CRANE SHALL BE A 1500 POUND CAPACITY MODEL HP1500R AS MANUFACTURED BY RUGER INDUSTRIES, INC., OR APPROVED EQUAL.
- SANDBLAST, PRIME AND PAINT ALL EXISTING INTERIOR DUCTILE IRON PIPING TO MATCH NEW PIPING. SEE SECTION 09900 - PAINTING.
- THE CONTRACTOR SHALL RE-PAINT THE BUILDING INTERIOR WALLS AND CEILING IN ACCORDANCE WITH SPECIFICATION SECTION 09900 - PAINTING. LEAVE INTERIOR COLOR OF NEW OVERHEAD DOOR AS DELIVERED (WHITE).



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



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

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FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY

thompson ENGINEERING

218 N. ALSTON ST.
MOBILE, ALABAMA 36682
SCALE: AS NOTED

PLST SCALE: 1:24
DRAWN BY: J.L.BATES
CHECKED BY: LJG
APPROVED BY: MJ

TEL: (251) 970-2880
FAX: (251) 970-2884
DATE: MARCH 12, 2013

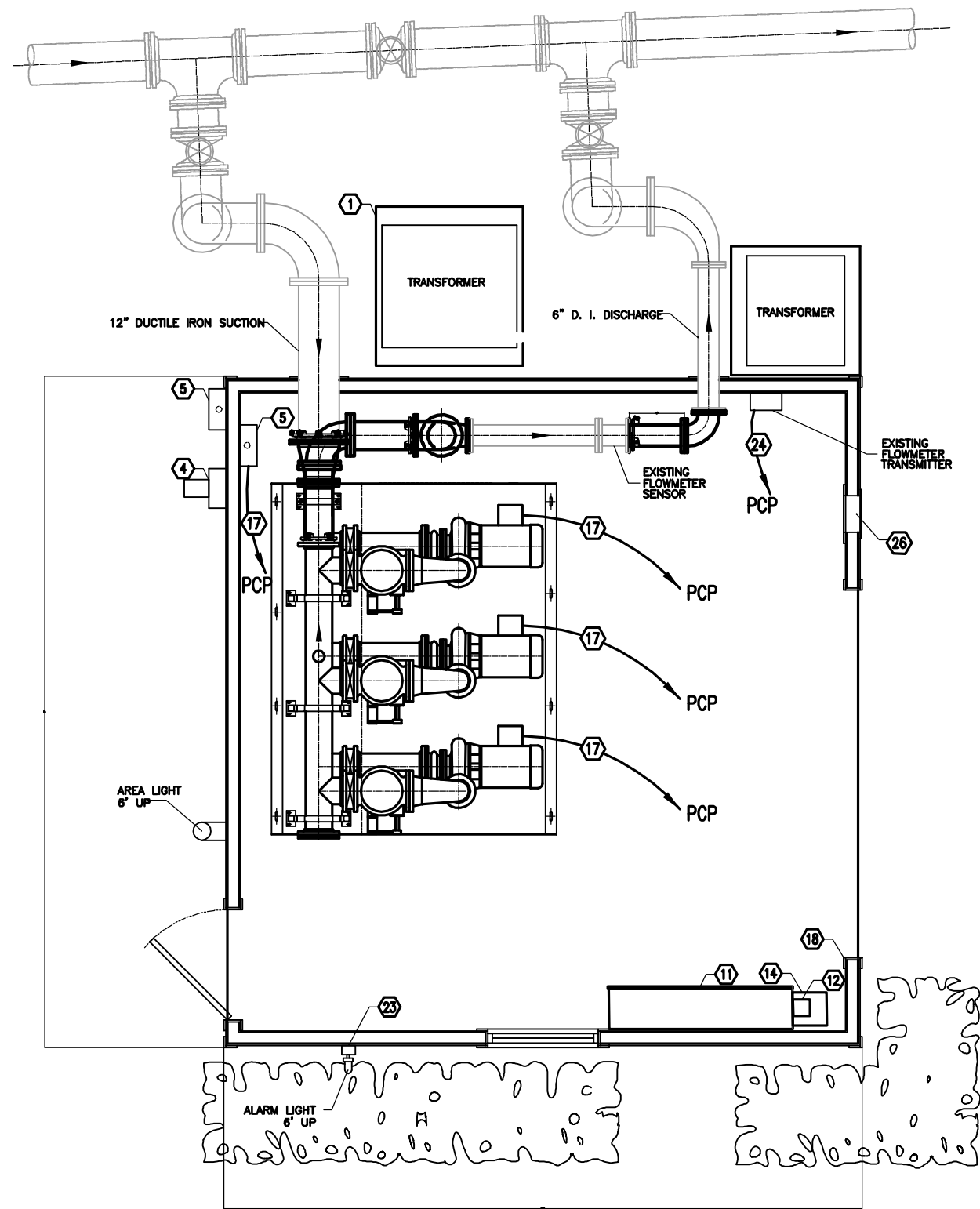
CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

ROCK CREEK BOOSTER STATION NEW FLOOR PLAN

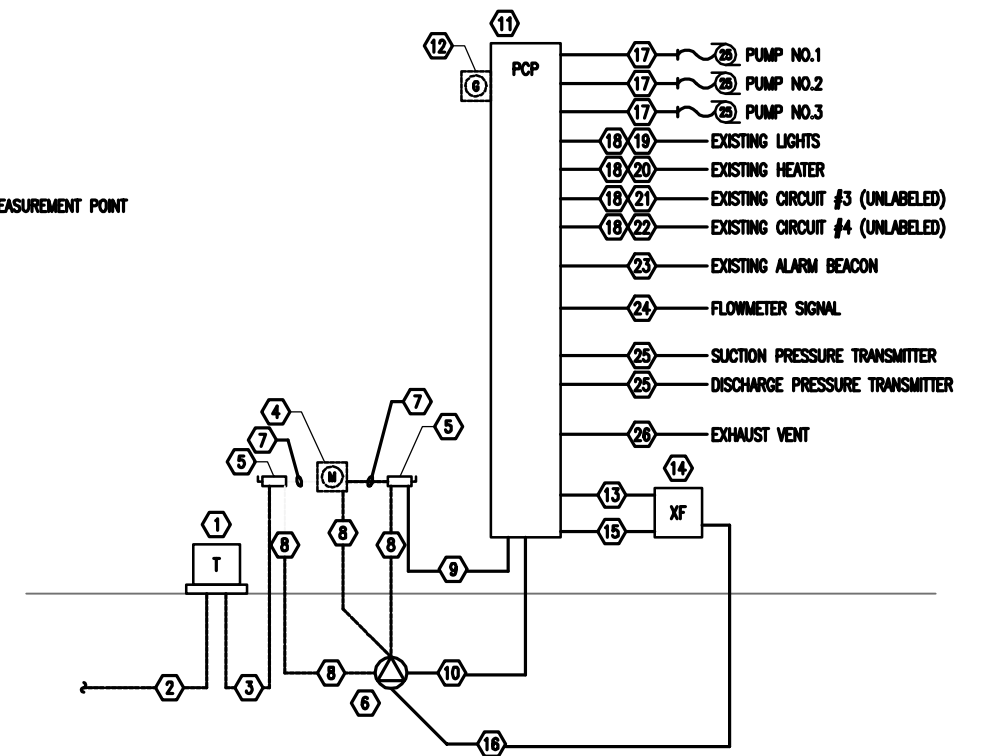
DATE: MARCH 12, 2013
DRAWING NO: 12-2111-0072
REVISION NO: BS-4
0

KEYED NOTES - ELECTRICAL RISER AND PLAN:

- ① EXISTING PAD MOUNT TRANSFORMER BY LOCAL UTILITY.
- ② EXISTING UNDERGROUND PRIMARY.
- ③ EXISTING UNDERGROUND SECONDARY.
- ④ EXISTING UTILITY METER.
- ⑤ EXISTING DISCONNECT
- ⑥ EXISTING GROUND GRID
- ⑦ EXISTING 480VAC/200A/3PH POWER FEED
- ⑧ EXISTING POWER SERVICE GROUNDING
- ⑨ (3) 3/0, (1) #6G, 2°C
- ⑩ #6G, 3/4°C, CONNECT TO NEAREST LOCATION ON EXISTING GROUND GRID
- ⑪ PUMP CONTROL PANEL (PCP). SEE SPECIFICATIONS FOR PCP REQUIREMENTS.
- ⑫ PORTABLE GENERATOR RECEPTACLE, INTEGRAL TO PCP
- ⑬ (2) #8, (1) #8G, 3/4°C
- ⑭ DRY TYPE TRANSFORMER - 10KVA, 480V TO 208/120V, 1PH, 150 DEGREES CELSIUS
- ⑮ (2) #3, (1) #8G, 1°C
- ⑯ #4G, 3/4°C
- ⑰ (3) #10, (1) #10G, 3/4°C, 24" FLEXIBLE CONDUIT MAXIMUM
- ⑱ REMOVE EXISTING LIGHTING PANEL. RECONNECT EXISTING CIRCUITS TO NEW BREAKERS IN PCP.
- ⑲ EXISTING LIGHTS CIRCUIT, 20A BREAKER, CKT#1
- ⑳ EXISTING HEATER CIRCUIT, 20A BREAKER, CKT#2
- ㉑ EXISTING CIRCUIT, 20A BREAKER, CKT#3, UNLABELED, IDENTIFY & LABEL
- ㉒ EXISTING CIRCUIT, 20A BREAKER, CKT#4, UNLABELED, IDENTIFY & LABEL
- ㉓ (2) #12, (1) #12G, 3/4°C
- ㉔ #16 TSP, 3/4°C
- ㉕ INTEGRAL PRESSURE TRANSMITTER, 1/4" TUBING ROUTED TO PROCESS MEASUREMENT POINT
- ㉖ EXHAUST VENT, RELOCATE AND RECONNECT AS REQUIRED



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



ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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REVISION NO.	DESCRIPTION	DATE	BY



FAIRHOPE PUBLIC UTILITIES
FAIRHOPE, AL
BALDWIN COUNTY

thompson
ENGINEERING*

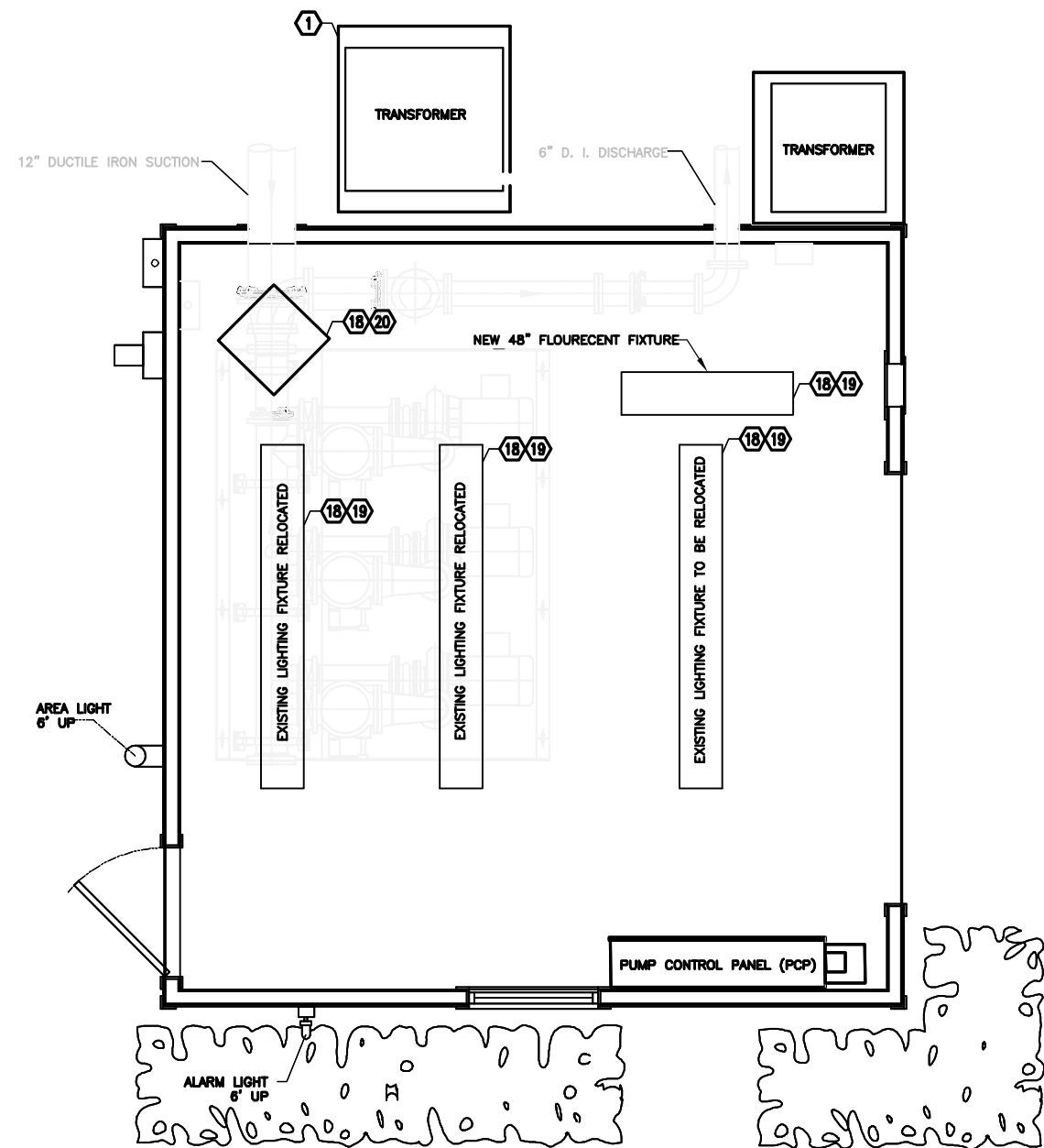
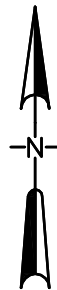
218 N. ALSTON ST.
FAIRLEY, ALABAMA 36536
TEL: (251) 970-2890
FAX: (251) 970-2894

**CR 13 AND HWY 104 WATER
MAIN IMPROVEMENTS AND SOUTH DR.
BOOSTER STATION UPGRADE**

**SOUTH DR. BOOSTER STATION UPGRADE
ELECTRICAL LAYOUT & RISER DIAGRAM**

AS NOTED	1:1	DTC	DTC	DTC	02/16/13	12-2111-0072	E-01	0
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KEYED NOTES - ELECTRICAL RISER AND PLAN:

- ① EXISTING PAD MOUNT TRANSFORMER BY LOCAL UTILITY.
- ② EXISTING UNDERGROUND PRIMARY.
- ③ EXISTING UNDERGROUND SECONDARY.
- ④ EXISTING UTILITY METER.
- ⑤ EXISTING DISCONNECT
- ⑥ EXISTING GROUND GRID
- ⑦ EXISTING 480VAC/200A/3PH POWER FEED
- ⑧ EXISTING POWER SERVICE GROUNDING
- ⑨ (3) 3/0, (1) #8G, 2°C
- ⑩ #8G, 3/4°C, CONNECT TO NEAREST LOCATION ON EXISTING GROUND GRID
- ⑪ PUMP CONTROL PANEL (PCP). SEE SPECIFICATIONS FOR PCP REQUIREMENTS.
- ⑫ PORTABLE GENERATOR RECEPTACLE, INTEGRAL TO PCP
- ⑬ (2) #8, (1) #8G, 3/4°C
- ⑭ DRY TYPE TRANSFORMER - 10KVA, 480V TO 208/120V, 1PH, 150 DEGREES CELSIUS
- ⑮ (2) #3, (1) #8G, 1°C
- ⑯ #4G, 3/4°C
- ⑰ (3) #10, (1) #10G, 3/4°C, 24" FLEXIBLE CONDUIT MAXIMUM
- ⑱ REMOVE EXISTING LIGHTING PANEL. RECONNECT EXISTING CIRCUITS TO NEW BREAKERS IN PCP.
- ⑲ EXISTING LIGHTS CIRCUIT, 20A BREAKER, CKT#1
- ⑳ EXISTING HEATER CIRCUIT, 20A BREAKER, CKT#2
- ㉑ EXISTING CIRCUIT, 20A BREAKER, CKT#3, UNLABELED (FLOWMETER POWER?)
- ㉒ EXISTING CIRCUIT, 20A BREAKER, CKT#4, UNLABELED (RECEPTACLES?)
- ㉓ (2) #12, (1) #12G, 3/4°C
- ㉔ #16 TSP, 3/4°C
- ㉕ INTEGRAL PRESSURE TRANSMITTER, 1/4" TUBING ROUTED TO PROCESS MEASUREMENT POINT
- ㉖ EXHAUST VENT, RELOCATE AND RECONNECT AS REQUIRED

LIGHTING & HEATING PLAN
SCALE: 1/2" = 1'-0"

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

REVISION NO.	DESCRIPTION	DATE	BY



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SCALE: AS NOTED
DRAWN BY: MJ
CHECKED BY: L.J.G.
APPROVED BY: MJ

CR 13 AND HWY 104 WATER MAIN IMPROVEMENTS AND SOUTH DR. BOOSTER STATION UPGRADE

SOUTH DR. BOOSTER STATION UPGRADE LIGHTING AND HEATING PLAN

DATE: 11/12
JOB NO.: 12-2111-0072
DRAWING NO.: E-02
REVISION NO.: 0

