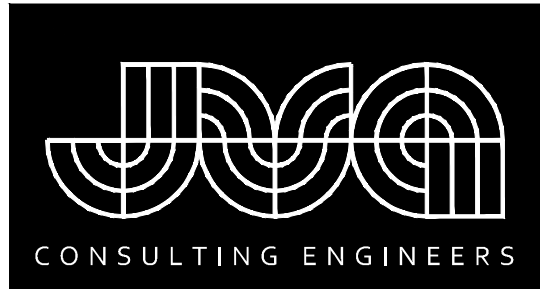


RIVER GLEN

LIFT STATION AND FORCE MAIN

LARIMER COUNTY, CO

CDPHE APPROVAL SUBMITTAL



JVA, Incorporated
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ED SCHEMM

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WILLIAM A. RAATZ, P.E.

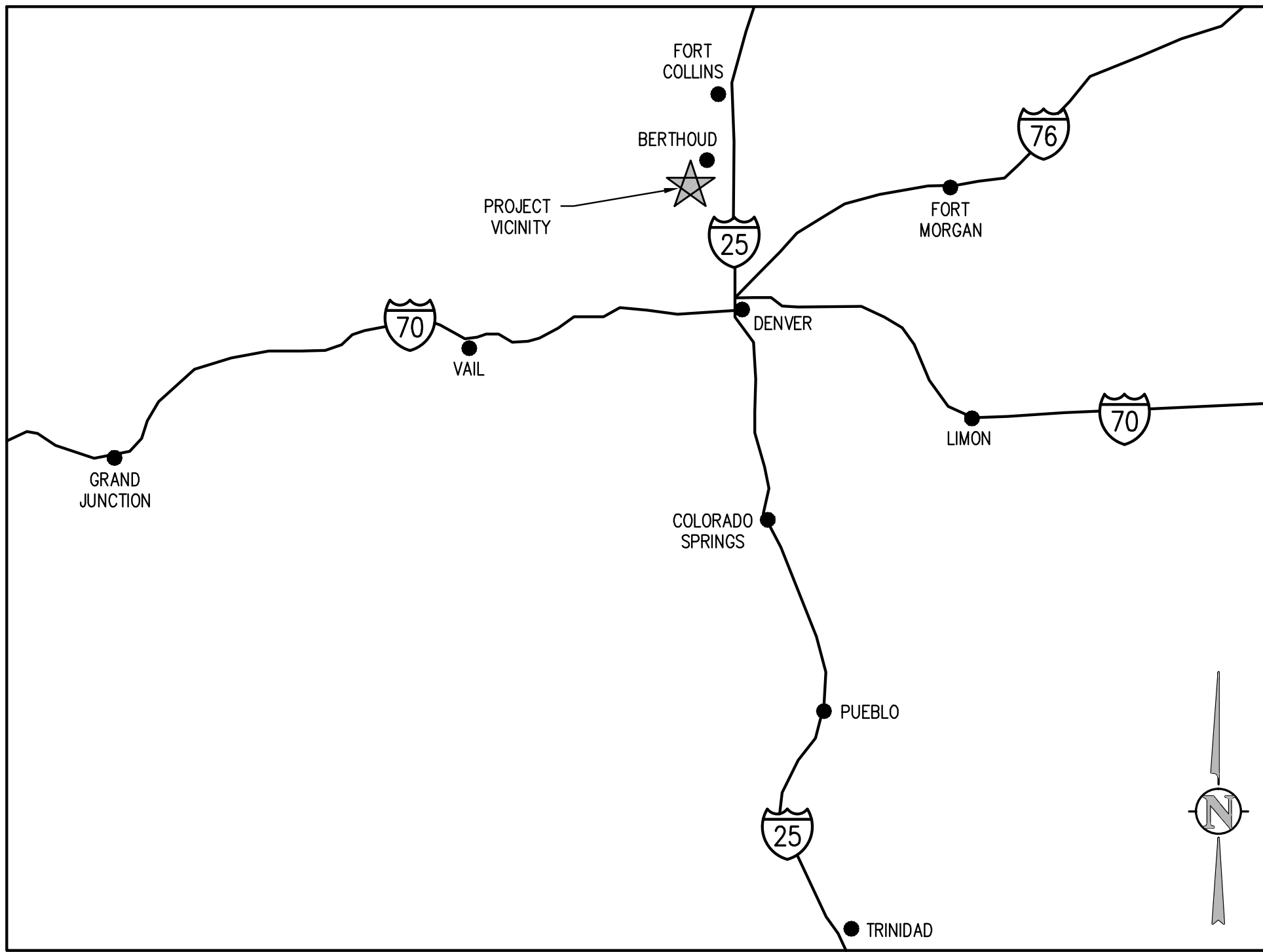
MARCH 2014

PREPARED UNDER THE SUPERVISION OF

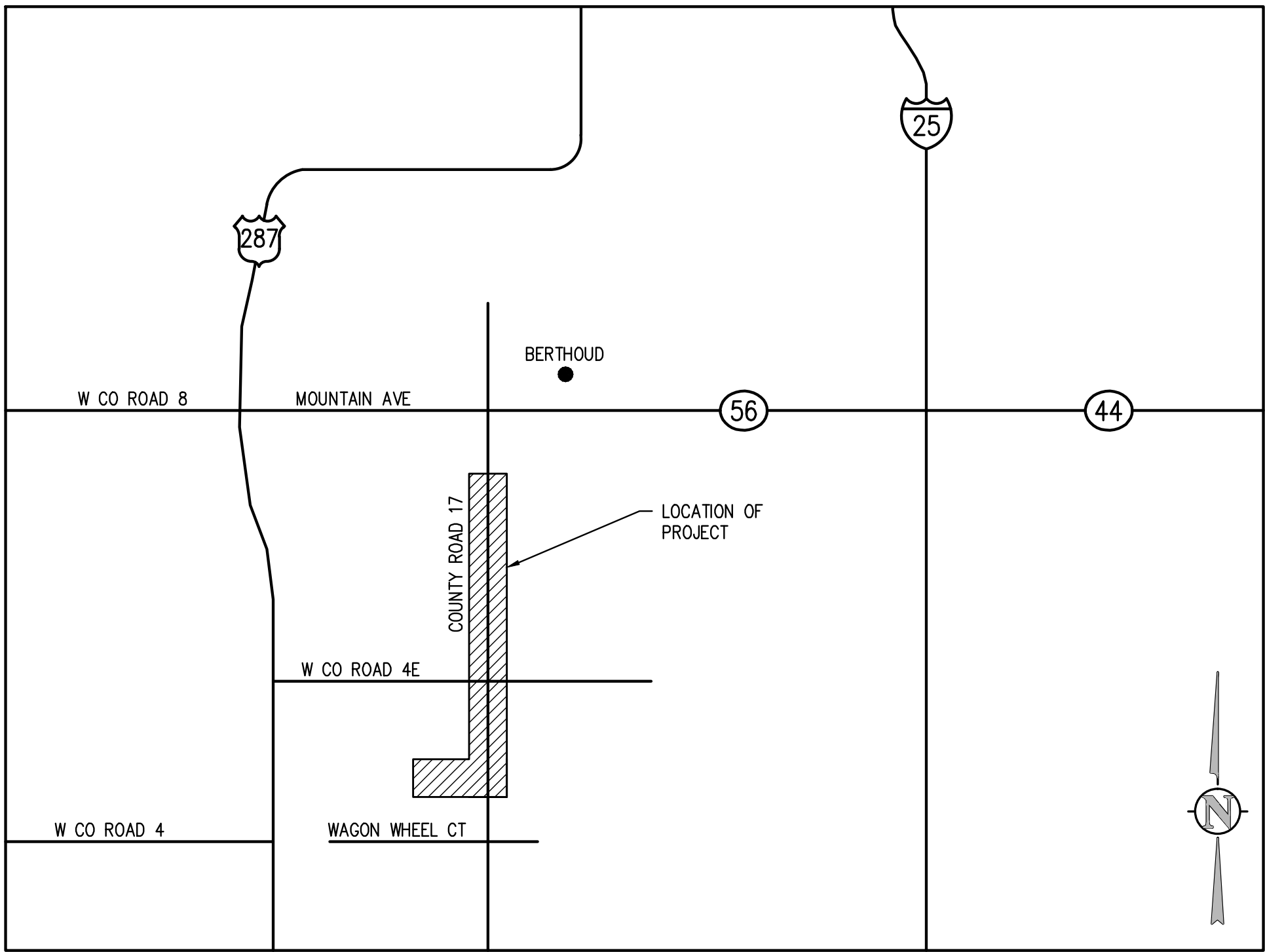
JVA, Inc.

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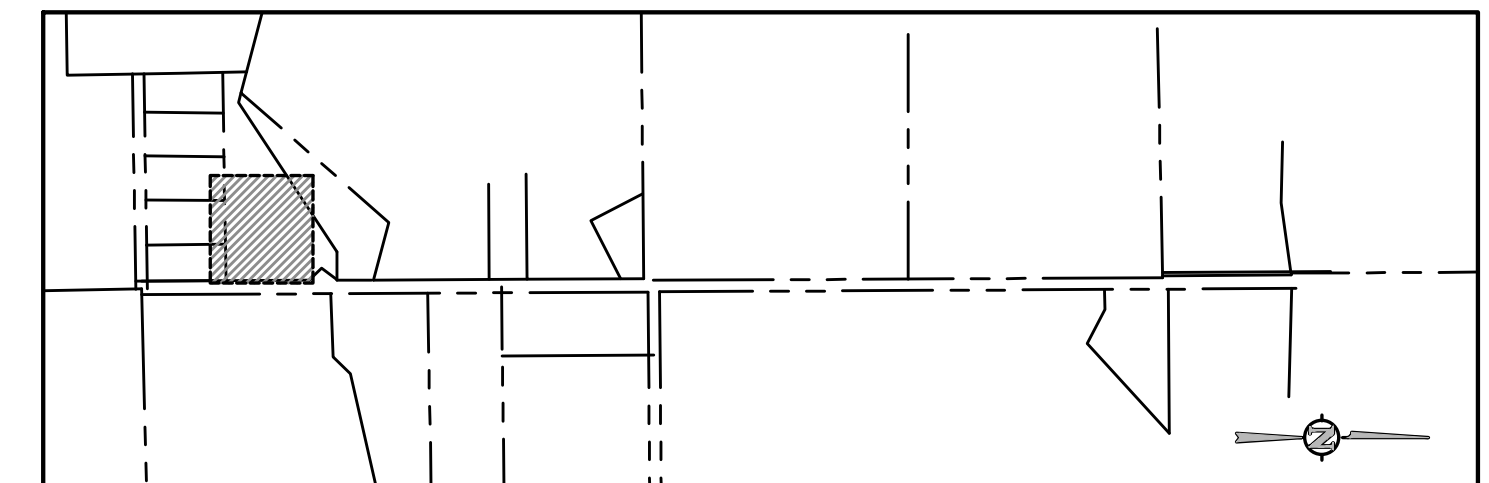
VICINITY MAP
NTS



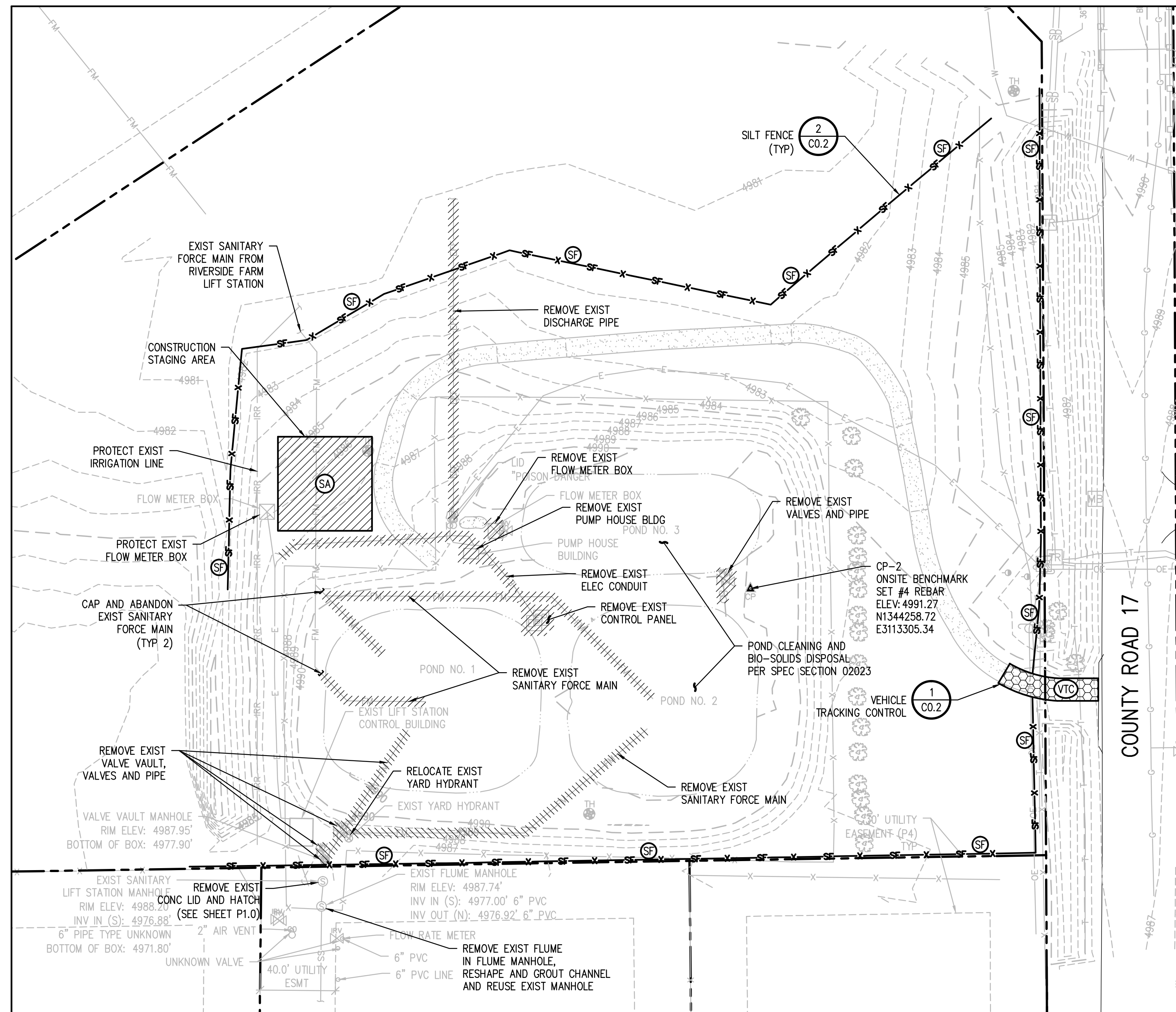
PROJECT LOCATION MAP
NTS

ABBREVIATIONS

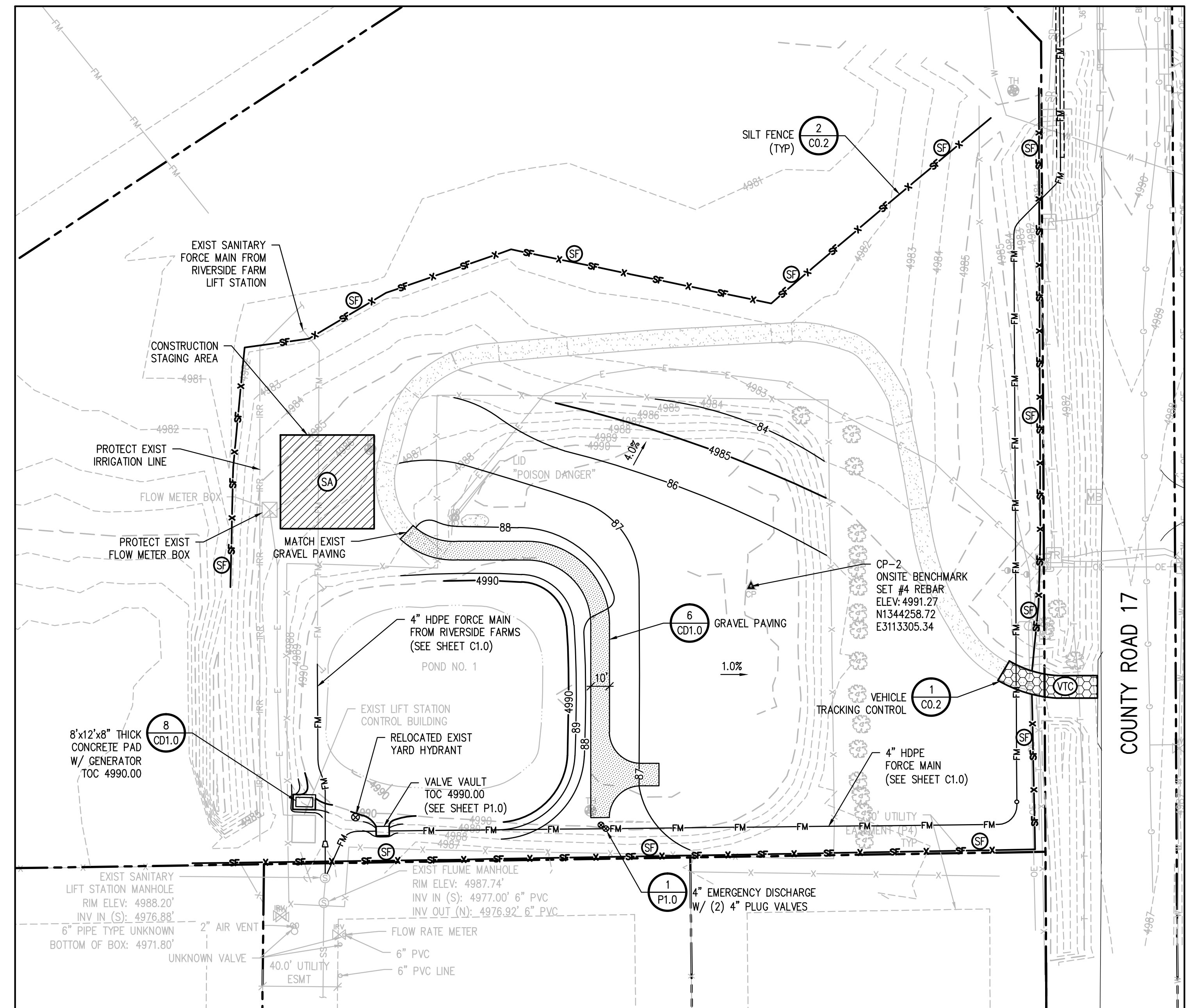
AB	ANCHOR BOLT	F/F	FACE TO FACE	N	NITROGEN	SM	SMOOTH
ABAN	ABANDON	FCA	FLANGE COUPLING ADAPTER	NAC	NGOCL SUPPLY LINE	SP	SPACE (ING)
ABC	AGGREGATE BASE COURSE	FD	FLOOR DRAIN	NAL	NGAI02 SUPPLY LINE	SPEC	SPECIFICATION
AC	AIR CONDITIONING	FDN	FOUNDATION	NIC	NOT IN CONTRACT	SQ	SQUARE
ACKV	AUTOMATIC CHECK VALVE	FES	FEDERAL	NP	NO PAINT	SQ IN	SQUARE INCH
ACOUS	ACOUSTICAL	FEL	FLARED END SECTION	NPL	NAMEPLATE	SQ YD	SQUARE YARD
ACP	ASPHALTIC CONCRETE PAVING	FIN	FINISH	NPT	NATIONAL PIPE THREAD	SS	SANITARY SEWER
ACTR	ACTUATOR	FIN FL	FINISH FLOOR	NPW	NON-POTABLE WATER	SST	STAINLESS STEEL
AD	AREA DRAIN OR ACCESS DOOR	FIN GR	FINISH GRADE	NRS	NON-RISING STEM	SST BT	STAINLESS STEEL BOLT
ADDL	ADDITIONAL	FL	FLOWLINE	NS	NEAR SIDE	STA	STATION
ADDM	ADDENDUM	FLR	FLOOR	NTS	NOT TO SCALE	STD	STANDARD
ADJ	ADJUSTABLE	FF	FLOOR FINISH			STL	STEEL
AFF	ABOVE FINISHED FLOOR	FN	FENCE			STL JST	STEEL JOIST
AFG	ABOVE FINISHED GRADE	FOC	FACE OF CONCRETE	OC	ON CENTER	STL PL	STEEL PLATE
AHU	AIR HANDLING UNIT	FPM	FEET PER MINUTE	OD	OUTSIDE DIAMETER	STRUCT	STRUCTURAL
AL	ALUMINUM	FP	FEED POINT	OF	OUTSIDE FACE	STRUCT STL	STRUCTURAL STEEL
ALT	ALTERNATE	FPS	FEET PER SECOND	OPNG	OPENING	SUPP	SUPPLY
AMT	AMOUNT	FPW	FIRE PROTECTION WATER SUPPLY	OPP	OPPOSITE	SUSP CLG	SUSPENDED CEILING
APPROX	APPROXIMATE	FR	FRAME	OPT	OPTIONAL	SV	SOLENOID VALVE
ARCH	ARCHITECT(URAL)	FRP	FIBERGLASS REINFORCED PLASTIC			SVC	SERVICE
ARV	AIR RELIEF VALVE	FSNTR	FASTENER	P	PUMP	SW	SIDEWALK
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	FT	FEET	PA	PIPE ANCHOR	SWMP	STORM WATER MANAGEMENT PLAN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FTG	FOOTING OR FITTING	PAR	PARALLEL	SYMM	SYMMETRICAL
ASPH	ASPHALT	FUR	FURNACE	PC	POINT OF CURVE, OR PORTLAND CEMENT	SYS	SYSTEM
ASSY	ASSEMBLY						
ASYM	ASYMMETRICAL	C	GAS	PCO	PRESSURE CLEAN OUT	T	TEE
ATS	AUTOMATIC TRANSFER SWITCH	GA	GAUGE	PCP	PROGRESSING CAVITY PUMP	T&B	TOP AND BOTTOM
AUTO	AUTOMATIC	GAL	GALLON	PCR	POINT OF CURVE RETURN	T&G	TONGUE AND GROOVE
AVG	AVERAGE	GALV	GALVANIZED	PD	PUMP DISCHARGE LINE	T&P	TEMPERATURE AND PRESSURE
AVS	AUTOMATIC VALVE STATION	GIP	GALVANIZED IRON PIPE	PE	PLAIN END	TB	TOP OF BEAM
		GND	GROUND	PERM	PERMANENT	TBC	TOP BACK OF CURB
B	BLOWER	GPD	GALLONS PER DAY	PERP	PERPENDICULAR	TBM	TEMPORARY BENCH MARK
B&F	BELL AND FLANGE	GPM	GALLONS PER MINUTE	PG	PRESSURE GAGE	TE	TOP ELEVATION
BB	BOND BEAM	GR BM	GRADE BEAM	PI	POINT OF INTERSECTION	TEMP	TEMPORARY
BAF	BAFFLE	GRC	GALVANIZED RIGID CONDUIT	PIVC	POINT OF INTERSECTION FOR VERTICAL CURVE	TF	TOF OF FOOTING
BC	BACK OF CURB	GRTG	GRATING	PL	PLATE OR PROPERTY LINE	TFA	TO FLOOR ABOVE
BE	BELL END	GV	GALVANIZED STEEL PIPE	PLBG	PLUMBING	TFB	TO FLOOR BELOW
BFV	BOTTOM FACE	GWB	GYP SUM WALL BOARD	PLYMD	PLYWOOD	TFD	TO FINISH FLOOR
BLDG	BUILDING	H	HIGH	PNT	PAINT	THD	THREAD (ED)
BLK	BLOCK	HB	HOSE BIB	POLY	POLYETHYLENE	THK	THICK
BM	BENCH MARK	HDWL	HEADWALL	PORT	PORTABLE	TJ	TOP OF JOIST
BMPs	BEST MANAGEMENT PRACTICES	HNDWL	HAND RAIL	POS	POSITIVE	TOB	TOP OF BANK
BOD	BIOCHEMICAL OXYGEN DEMAND	HORIZ	HORIZONTAL	PPM	PARTS PER MILLION	TOC	TOP OF CONCRETE OR TOP OF CURB
BOT	BOTTOM	HORIZ	HORIZONTAL	PRCST	PRECAST	TOE	THREADED ONE END
BS	BACKSIGHT	HR	HORSEPOWER	PRFAB	PREFABRICATED	TOF	TOP OF FOOTING
BSMT	BASEMENT	HS	HIGH STRENGTH	PREFIN	PREFINISHED	TOG	TOP OF GRATING
BV	BELL UP	HVAC	HEATING, VENTILATION, AIR CONDITIONING	PRELIM	PRELIMINARY	TOT	TOTAL
BU	BALL VALVE	HW	HOT WATER	PREP	PREPARATION	TP	TOP OF PAVEMENT
BCV	BUTTERFLY CHECK VALVE	HWL	HIGH WATER LINE	PROJ	PROJECT	TR	TOP OF RIM
		HWY	HIGHWAY	PROP	PROPERTY	TSL	TOP OF SLAB
		HYD	HYDRANT	PRS	PRESSURE REDUCING STATION	TST	TOP OF STEEL
				PRV	PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE	TW	TOP OF WALL
						TYP	TYPICAL
C/C	CENTER TO CENTER	ISO	ISOMETRIC	PS	PIPE SUPPORT	UBC	UNIFORM BUILDING CODE
CA	CITRIC ACID SUPPLY LINE			PSF	POUNDS PER SQUARE FOOT	UNGD	UNDERGROUND
CB	CATCH BASIN			PSI	POUNDS PER SQUARE INCH	UE	UNDERGROUND ELECTRIC
COW	COUNTER CLOCKWISE			PSIA	POUNDS PER SQUARE INCH ABSOLUTE	ULT	ULTIMATE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION			PSIG	POUNDS PER SQUARE INCH GAGE	UN	UNION
CEB	CONCRETE EQUIPMENT BASE			PT	POINT OF TANGENCY	UNFIN	UNFINISHED
CHKV	CHECK VALVE			PTD	POINT OF TANGENCY	UNIF	UNIFORM
CIP	CAST IRON PIPE			PTD	POINT OF TANGENCY	UNIV	UNIVERSAL
CMJ	CAST IRON MECHANICAL JOINT			PTD	POINT OF TANGENCY	UTIL	UTILITY
CSP	CAST IRON SOIL PIPE			PTD	POINT OF TANGENCY	UV	ULTRAVIOLET
CJ	CONSTRUCTION JOINT			PTD	POINT OF TANGENCY		
CL	CENTER LINE OR CHAIN LINK			PTD	POINT OF TANGENCY		
CLG	CEILING			PTD	POINT OF TANGENCY		
CLR	CLEAR			PTD	POINT OF TANGENCY		
CMP	CORRUGATED METAL PIPE			PTD	POINT OF TANGENCY		
CMU	CONCRETE MASONRY UNIT			PTD	POINT OF TANGENCY		
CO	CLEAN OUT			PTD	POINT OF TANGENCY		
CONC	CONCRETE			PTD	POINT OF TANGENCY		
CONSTR	CONSTRUCTION			PTD	POINT OF TANGENCY		
CONT	CONTINUOUS(ATION)			PTD	POINT OF TANGENCY		
CP	CENTRIFUGAL PUMP			PTD	POINT OF TANGENCY		
CPLG	COUPLING			PTD	POINT OF TANGENCY		
CPVC	CHLORINATED POLYVINYL CHLORIDE			PTD	POINT OF TANGENCY		
CR	CONCENTRIC REDUCER			PTD	POINT OF TANGENCY		
CTR	CENTER			PTD	POINT OF TANGENCY		
CV	CHECK VALVE			PTD	POINT OF TANGENCY		
CW	COLD WATER			PTD	POINT OF TANGENCY		
CY	CUBIC YARDS			PTD	POINT OF TANGENCY		
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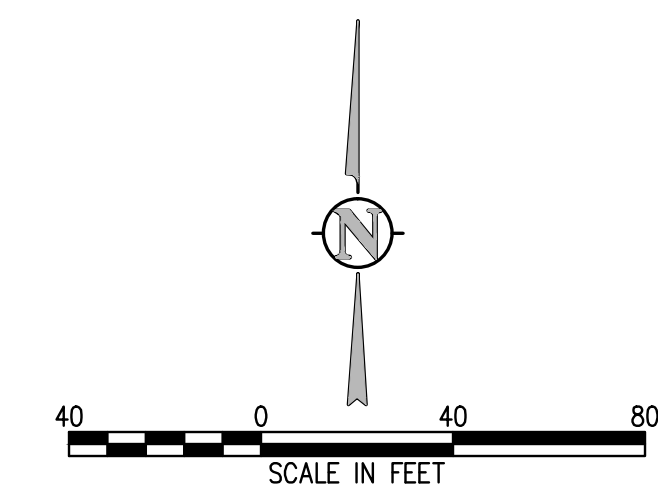
KEY MAP
SCALE: 1" = 1000'



SITE DEMO PLAN
SCALE: 1" = 40'



SITE GRADING AND ERSOSION CONTROL PLAN
SCALE: 1" = 40'



STORMWATER MANAGEMENT PLAN (SWMP)

THIS STORMWATER MANAGEMENT PLAN IS TO BE RETAINED AND MAINTAINED ONSITE INCLUDING FINAL LANDSCAPING PLANS AND ANY OTHER EROSION CONTROL DOCUMENTATION. A SWMP ADMINISTRATOR WILL BE DESIGNATED BY THE CONTRACTOR AND IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THIS SWMP. THE SWMP ADMINISTRATOR IS THE CONTACT FOR ALL SWMP-RELATED ISSUES AND IS RESPONSIBLE FOR ITS ACCURACY, COMPLETENESS, AND IMPLEMENTATION. THE FOLLOWING HAS BEEN DESIGNATED AS THE SWMP ADMINISTRATOR FOR THIS PROJECT:

NAME: _____
CONTACT INFO: _____

THE BEGINNING OF THE PROJECT SITE IS LOCATED OFF COUNTY ROAD 17 1/10 OF A MILE NORTH OF WAGON WHEEL COURT AT APPROXIMATELY 40°16'39"N LATITUDE, 105°05'40"W LONGITUDE. THE PROPOSED PROJECT CONSISTS OF THE CONSTRUCTION OF A 4" FORCE MAIN SANITARY LINE. THE TOTAL SITE AREA IS APPROXIMATELY 4.2 ACRES. NO AREAS GREATER THAN 40 ACRES SHALL BE DISTURBED AT ANY GIVEN TIME. NO CONSTRUCTION ACTIVITIES SHALL OCCUR OFFSITE OR OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE CONSTRUCTION DOCUMENTS. THE SEQUENCE OF CONSTRUCTION STARTS IS AS FOLLOWS:

PHASE	ESTIMATED	ACTUAL
CONSTRUCTION START	MONTH, YEAR	_____
ROAD AND OVERLOT GRADING	MONTH, YEAR	_____
UTILITY CONSTRUCTION	MONTH, YEAR	_____
BUILDING CONSTRUCTION	MONTH, YEAR	_____
PAVING	MONTH, YEAR	_____
SITE RESTORATION	MONTH, YEAR	_____

THE EXISTING SITE CONSISTS OF DEVELOPED LAND, NATIVE GRASSLAND, VEGETATION, GRAVEL AND ASPHALT PAVING AND IS APPROXIMATELY 80% COVERED WITH VEGETATIVE GROUND COVER

OTHER POTENTIAL POLLUTION SOURCES DO NOT EXIST AT THIS SITE.

BEST MANAGEMENT PRACTICES FOR STORMWATER MANAGEMENT

NON STRUCTURAL BMPs WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE. THE UTILIZATION OF NON STRUCTURAL BMPs WILL BE AN ONGOING PROCESS DIRECTED AT PREVENTING EROSION. THE NON STRUCTURAL BMPs WILL RECEIVE CONTINUOUS EMPHASIS THROUGHOUT CONSTRUCTION BECAUSE THEY AVERT PROBLEMS BEFORE THEY OCCUR AND REDUCE THE NEED FOR STRUCTURAL BMPs. NON STRUCTURAL BMPs WILL CONSIST PRIMARILY OF PRESERVATION OF EXISTING MATURE VEGETATION AND TREES, PLANNING AND SCHEDULING CONSTRUCTION ACTIVITIES AIMED AT ACHIEVING THE GOAL OF MINIMIZING EROSION. FURTHERMORE, CONSTRUCTION PERSONNEL WILL BE INSTRUCTED AND SUPERVISED IN CONSTRUCTION METHODS CONSISTENT WITH EROSION PREVENTION PRACTICES.

PLANNED STRUCTURAL BMPs FOR EROSION AND SEDIMENT CONTROL ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. IMPLEMENTING THESE MEASURES SHOULD MINIMIZE NUISANCE SILT AND SEDIMENTATION EXITING THE SITE AND PREVENT CLOGGING EXISTING STORM SEWERS AND STREET GUTTERS.

APPLICATION OF THESE BMPs FOR STORMWATER MANAGEMENT ARE FOR CONSTRUCTION PERIODS AND ARE CONSIDERED TEMPORARY. POST-DEVELOPMENT STORMWATER MANAGEMENT IS PROVIDED THROUGH VEGETATED LANDSCAPED AREAS AND GRASSED SWALES.

VEHICLE TRACKING CONTROL (VTC):

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT COUNTY ROAD 17. THE CONSTRUCTION ACCESS AND PARKING WILL BE GRADED AND COVERED WITH A CRUSHED STONE BASE COURSE DURING CONSTRUCTION. THE VEHICLE TRACKING CONTROL WILL BE RELOCATED WITH THE CONSTRUCTION ACCESS AS NECESSARY.

SILT FENCING (SF):

SILT FENCING SHALL BE INSTALLED WITH RESPECT TO PROPOSED DRAINAGE PATTERNS. SILT FENCE SHALL BE CONSTRUCTED ALONG THE PORTIONS OF ALL SIDES OF THE PROPERTY AND ALONG ANY DRAINAGE AREAS SUBJECT TO EROSION. THE FENCE SHALL BE INSTALLED AT THE DOWNHILL SIDE OF THE EXISTING SLOPES ACROSS THE SITE AND AT ALL POINT DISCHARGE AREAS WHETHER SHOWN OR NOT, SILT FENCE SHALL BE MAINTAINED AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS. THE TEMPORARY SILT FENCE WILL REMAIN UNTIL THE STORM SEWER STRUCTURES ARE COMPLETED AND GROUND COVER IS EFFECTIVE.

DUST CONTROL MEASURES:

DISTURBED AREAS NOT YET READY TO BE SEEDED, LANDSCAPES, PAVED, OR OTHERWISE STABILIZED SHALL BE WATERED, OR RIPPED AS NECESSARY TO PRECLUDE VISIBLE DUST EMISSIONS.

ITEMS ARE SCHEDULED TO BE IMPLEMENTED ACCORDING TO THE CONSTRUCTION SCHEDULE. AS WORK PROCEEDS, IMPLEMENTATION OF INDIVIDUAL BMPs IS TO COINCIDE WITH THE CONSTRUCTION THEREBY MINIMIZING THE EXPOSURE OF UNPROTECTED AREAS. THE SILT FENCE, INLET PROTECTION (FOR EXISTING INLETS), AND GRAVELING OF THE CONSTRUCTION ENTRANCE WILL BE PERFORMED WHEN THE GRADING BEGINS. THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. THE RIPRAP PROTECTION WILL BE INSTALLED AS THE STORM SEWER OUTFALLS OR CULVERTS ARE CONSTRUCTED. THE STRUCTURAL BMPs THAT DO NOT BECOME PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN ARE TO BE REMOVED, AS THE PAVING, LANDSCAPING AND OTHER PERMANENT GROUNDCOVER INSTALLATIONS ARE COMPLETED. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH AT THE TIME OF GRADING. THE GRAVELING IS TO BE MAINTAINED AND EXTENDED CONSTRUCTION PROGRESSES ESPECIALLY AROUND THE BUILDING SITE. THE STRUCTURAL BMPs ARE TO BE REMOVED, AS THE PERMANENT LANDSCAPING INSTALLATIONS ARE COMPLETED.

THE EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED BY THE DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, OWNER'S ENGINEER, COUNTY ENGINEERING INSPECTORS, MUNICIPALITY, OR ITS AUTHORIZED REPRESENTATIVE AS FIELD CONDITIONS WARRANT.

TEMPORARY SEEDING AND MULCHING:

ALL SEEDS FURNISHED SHALL BE FREE FROM NOXIOUS SEEDS SUCH AS RUSSIAN OR CANADIAN THISTLE, COURSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAWEED, AND LEAFY SPURGE. THE FORMULA USED FOR DETERMINING THE QUALITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS). SEEDING RECOMMENDATIONS ARE PROVIDED BELOW, BUT MAY BE MODIFIED WITH THE OWNER'S APPROVAL TO MAKE THE BEST USE OF EXISTING CLEARINGS AND GRUBBINGS:

SPECIES	COMMON NAME	% OF MIX	LBS/ACRE
BUCHLOE DACTYLOIDES	BUFFALOGRASS	44.4	8.4
PASOPYRUM SMITHI	WESTERN WHEATGRASS	22.8	4.3
ELYMUS TRACHYCAULUS	SLENDER WHEATGRASS	15.9	3.0
BOUTELOUA CURTIPENDULA	SIDEOTS GRAMA	13.2	2.5
BOUTELOUA GRACILIS	BLUE GRAMA	3.2	0.6
SPOROBOLUS CRYPTANDRUS	SAND DROPSEED	0.5	0.1

ALL SEEDS SHALL BE DRILLED NOT HYDROSEEDED. ALL DISTURBED AREAS SHALL BE SEEDED AND CRIMP MULCHED IF PERMANENT VEGETATION IS NOT IMMEDIATELY INSTALLED. AFTER SEEDING HAS BEEN COMPLETED, A RATE OF 4,000 LBS. OF STRAW PER ACRE SHALL BE APPLIED UNIFORMLY, CRIMPED IN WITH A CRIMPER OR OTHER APPROVED EQUIPMENT OR OTHERWISE ATTACHED. A TACKIFIER OR JUTE NETTING TO ATTACH MULCH MAY BE USED WITH THE OWNER'S APPROVAL. THE SEEDED AREA SHALL BE CRIMPED MULCHED AND THE MULCH ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING. AREAS NOT MULCHED AND ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING MUST BE RESEEDED WITH THE SPECIFIED MIX AT THE CONTRACTOR'S EXPENSE. PRIOR TO MULCHING AND ATTACHING, ON STEEP SLOPES OR OTHER SPECIFIED AREAS AS SHOWN ON THE PLANTING PLAN, WHICH ARE DIFFICULT TO MULCH AND ATTACH BY CONVENTIONAL METHOD, BURLAP OR OTHER BLANKETING MATERIALS PROPERLY ANCHORED AND SECURED MAY BE USED WHEN APPROVED BY LARIMER COUNTY OR ENGINEER.

PERMANENT STABILIZATION MEASURES:

PERMANENT LANDSCAPING WILL INCLUDE SEEDING TO OPEN AREAS. NATIVE PERENNIAL SEEDING WILL BE ESTABLISHED IN NON-IRRIGATED AREAS AND SOD OR OTHER VEGETATIVE COVER WILL BE ESTABLISHED IN IRRIGATED OPEN AREAS. ALL PERMANENT STABILIZATION MEASURES WILL BE SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER.

MATERIALS AND SPILL PREVENTION:

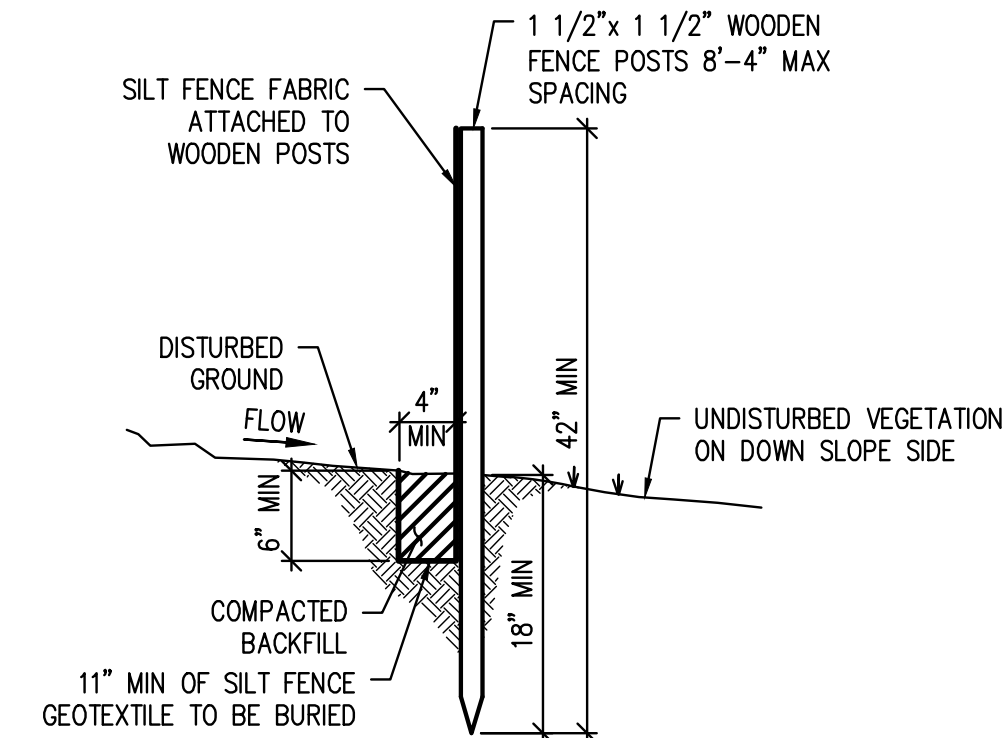
THE CONTRACTOR WILL STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN CONFINED AREAS ON SITE FROM WHICH RUNOFF WILL BE CONTAINED AND FILTERED. MATERIALS WILL BE STORED OFF THE GROUND AND PROTECTED FROM THE WEATHER BY A COVER OR STORED IN A CONTAINER SUCH AS A VAN OR TRAILER. AN EARTHEN DIKE WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE FUEL STORAGE AREA TO PREVENT MATERIALS FROM CONTACT WITH SURFACE RUNOFF. EQUIPMENT MAINTENANCE WILL BE PERFORMED IN A DESIGNATED AREA AND STANDARD MAINTENANCE PROCEDURES, SUCH AS THE USE OF DRIP PANS, WILL BE USED TO CONTAIN PETROLEUM PRODUCTS.

INSPECTION AND MAINTENANCE:

THE EROSION CONTROL MEASURES WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE CONTRACTOR AND AFTER EACH RAIN EVENT. ALL INSPECTIONS SHALL BE DOCUMENTED AND SHALL INCLUDE THE DATE OF INSPECTION, ANY INCIDENCE OF NON-COMPLIANCE, SIGNED CERTIFICATION THAT THE SITE IS IN COMPLIANCE, AND ANY NOTES, DRAWINGS, MAPS, ETC. PERTAINING TO REPAIRS. COPIES OF ALL DOCUMENTATION SHALL BE DISTRIBUTED TO MUNICIPALITIES AND OWNER ON A REGULAR BASIS AS SPECIFIED BY OWNER. SILT FENCE AND STRAW BALE BARRIERS WILL BE CHECKED FOR UNDERMINING AND BYPASS AND REPAIRED OR EXPANDED AS NEEDED. SEDIMENT SHOULD BE REMOVED FROM INLET FILTERS AND SILT FENCING BEFORE ONE HALF OF THE DESIGN DEPTH HAS BEEN FILLED. SEDIMENTS DEPOSITED IN THE PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY. THE TEMPORARY VEGETATION OF BARE SOILS WILL BE CHECKED REGULARLY AND AREAS WHERE IT IS LOST OR DAMAGED WILL BE RESEEDED. AT MINIMUM THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMPs EVERY 14 DAYS AND AFTER SIGNIFICANT PRECIPITATION OR SNOWMELT EVENTS. INSTALLATIONS AND MODIFICATIONS AS REQUIRED BY LARIMER COUNTY WILL BE IMPLEMENTED WITHIN 48 HOURS OF NOTIFICATION. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.

FINAL STABILIZATION AND LONG-TERM STORMWATER QUALITY:

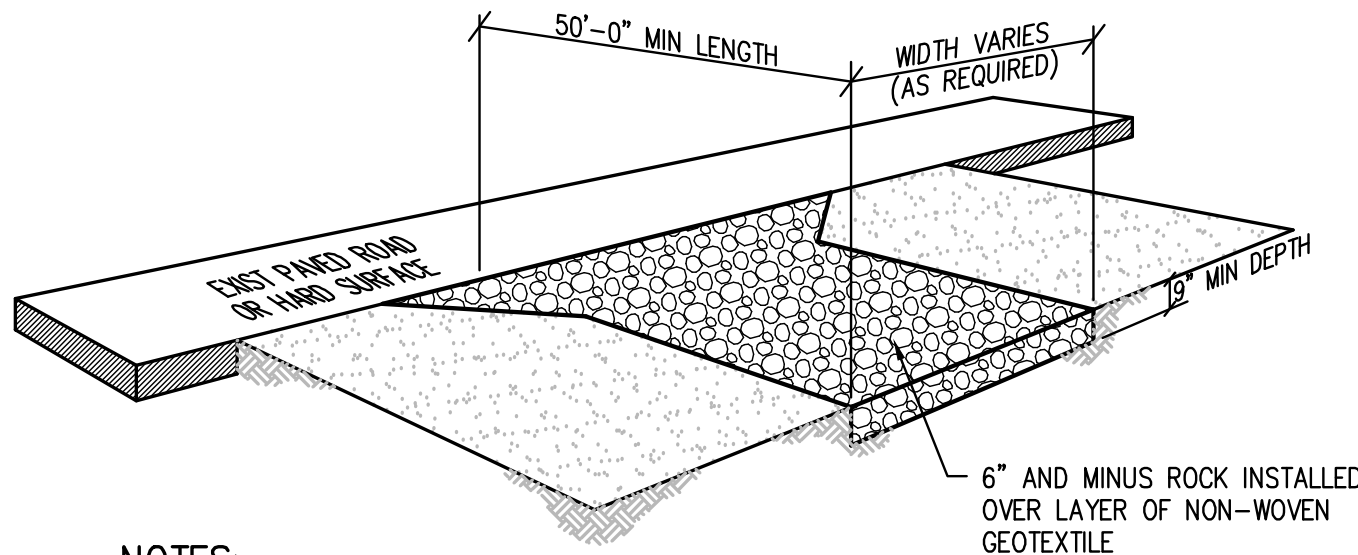
FINAL STABILIZATION IS REACHED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OR PRE-DISTURBANCE LEVELS OR EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED. FINAL STABILIZATION WILL BE ACHIEVED USING SOD, NATIVE SEEDING, PERMANENT BMP'S, AND OTHER METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STABILIZATION REGARDLESS OF ACCEPTANCE BY OWNER OF THE CONTRACTOR ITEM.



NOTES:

- SILT FENCE MUST BE PLACED AWAY FROM TOE OF SLOPE TO ALLOW FOR WATER PONDING.
- SILT FENCE MAY BE USED ALONG PERIMETERS SO LONG AS SLOPES DO NOT EXCEED 5% IF SLOPE IS GREATER THAN 5%, THEN SILT FENCE MAY BE INSTALLED ALONG THE CONTOUR OR A DIVERSION DIKE MAY BE REQUIRED.
- ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE: NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED. TRENCH SHALL BE COMPACTED BY HAND WITH "JUMPING JACK", OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE INDICATED ON PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTRIBING ACTIVITIES UNLESS NOTED OTHERWISE.
- SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT REACHES A DEPTH OF 6-INCHES.

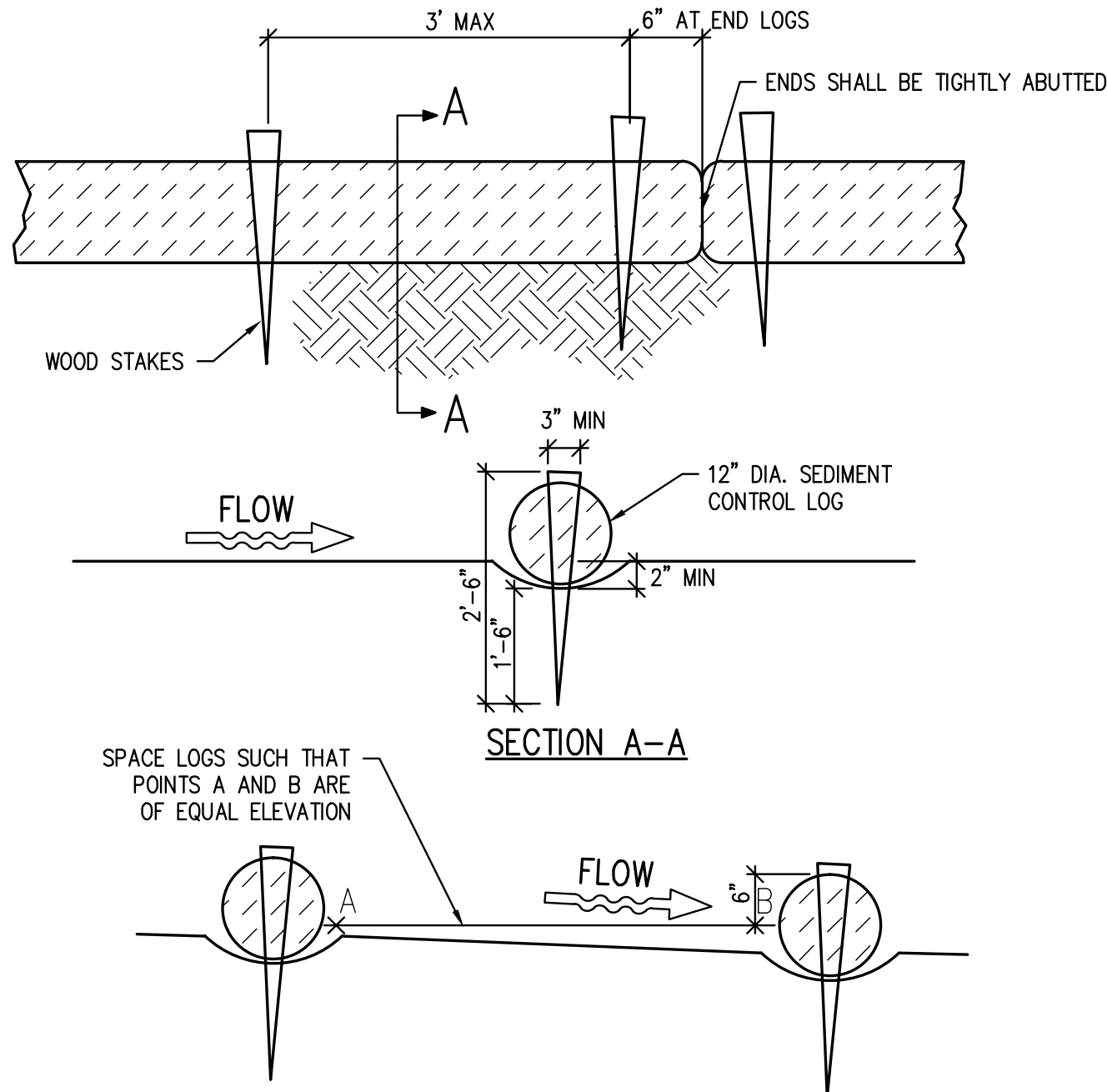
SILT FENCE DETAIL 1
NTS CO.1



NOTES:

- VEHICLE TRACKING CONTROL PADS SHALL BE INSTALLED AT ALL INGRESS/EGRESS POINTS WHERE VEHICULAR ACCESS TRANSITIONS FROM PAVED SURFACES TO DISTURBED SURFACES.
- THE VTC PAD SHALL CONSIST OF HARD, ANGULAR, DENSE, AND DURABLE STONE. ROUNDED STONE, BOULDERS, RECYCLED ASPHALT, AND RECYCLED CONCRETE ARE NOT ACCEPTABLE.
- ANY CRACKED OR DAMAGED CURB AND/OR GUTTER SHALL BE REPLACED BY THE CONTRACTOR.
- PAD WILL BE REPAIRED AND REFRESHED AS NEEDED TO MAINTAIN FUNCTION AND INTEGRITY.
- VTC PADS SHALL BE INSTALLED AT ALL CONCRETE WASHOUT AREAS AND AT STABILIZED STAGING/STORAGE AREAS.

VEHICLE TRACKING CONTROL DETAIL 2
NTS CO.1



SEDIMENT CONTROL LONG INSTALLATION NOTES:

- SEE PLAN VIEW FOR LOCATION AND EXTENT OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES AND AS REQUIRED DURING CONSTRUCTION.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
- NOT FOR USE IN CONCENTRATED FLOW AREAS.
- THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2".

SEDIMENT CONTROL LOG MAINTENANCE:

- THE SEDIMENT CONTROL LOGS SHALL BE INSPECTED DAILY, DURING AND AFTER ANY STORM EVENT, AND REPAIRED OR HAVE ANY UPSTREAM SEDIMENT REMOVED.
- SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST OF LOG.
- ALL SEDIMENT CONTROL LOGS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE ACCEPTABLY STABILIZED.

SEDIMENT CONTROL LOG DETAIL 3
NTS

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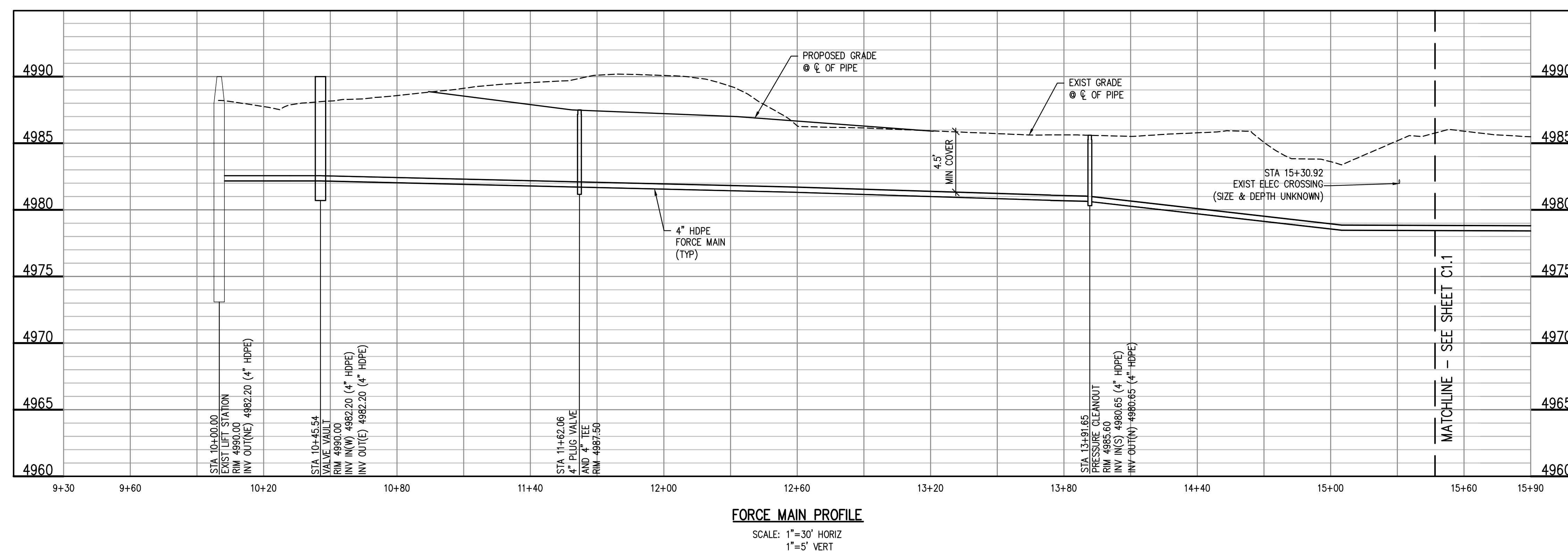
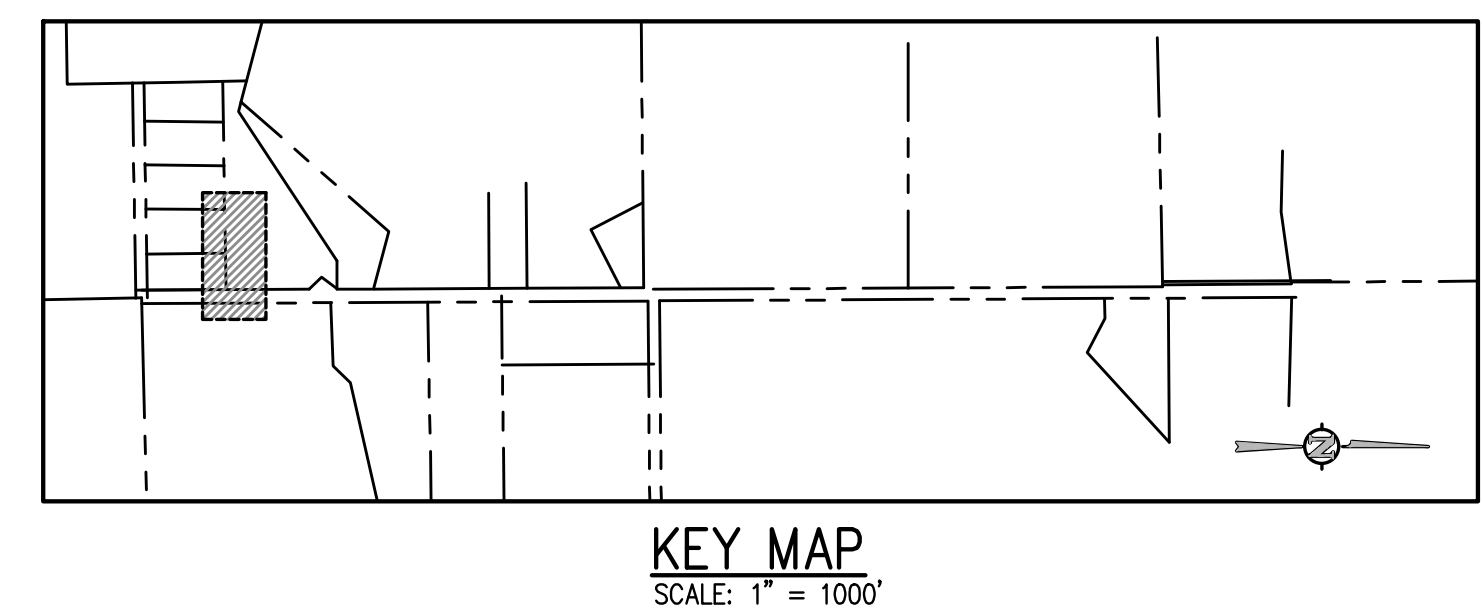
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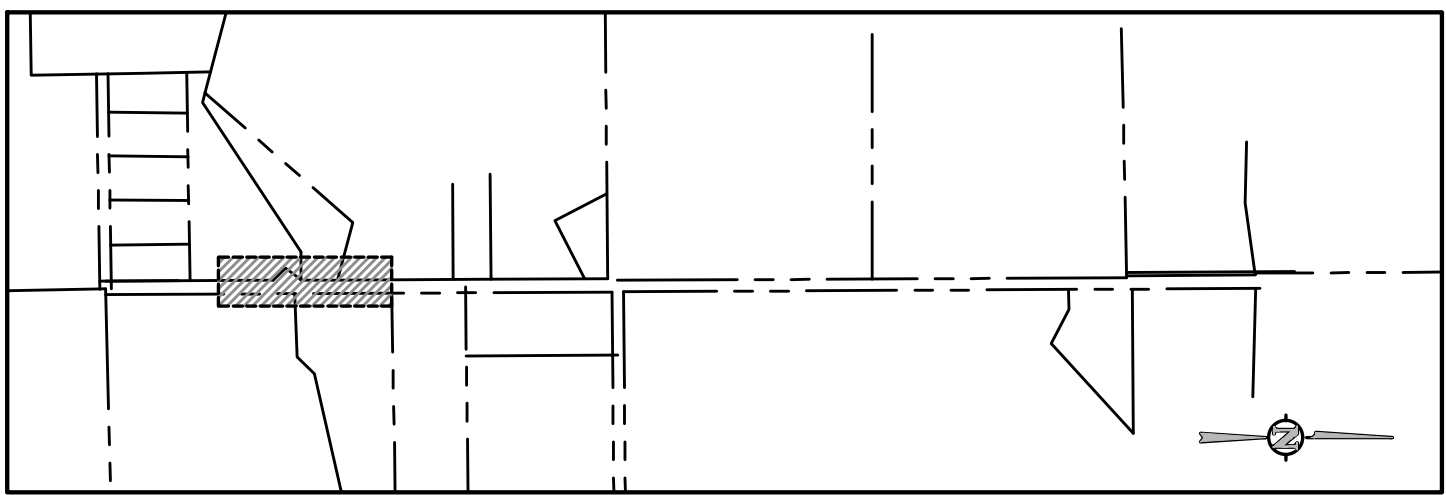
NO. DATE DESD DWN

DESIGNED BY: WAR
DRAWN BY: JCD
CHECKED BY: KAT
JOB #: 1862.4c
DATE: MARCH 2014
© JVA INC

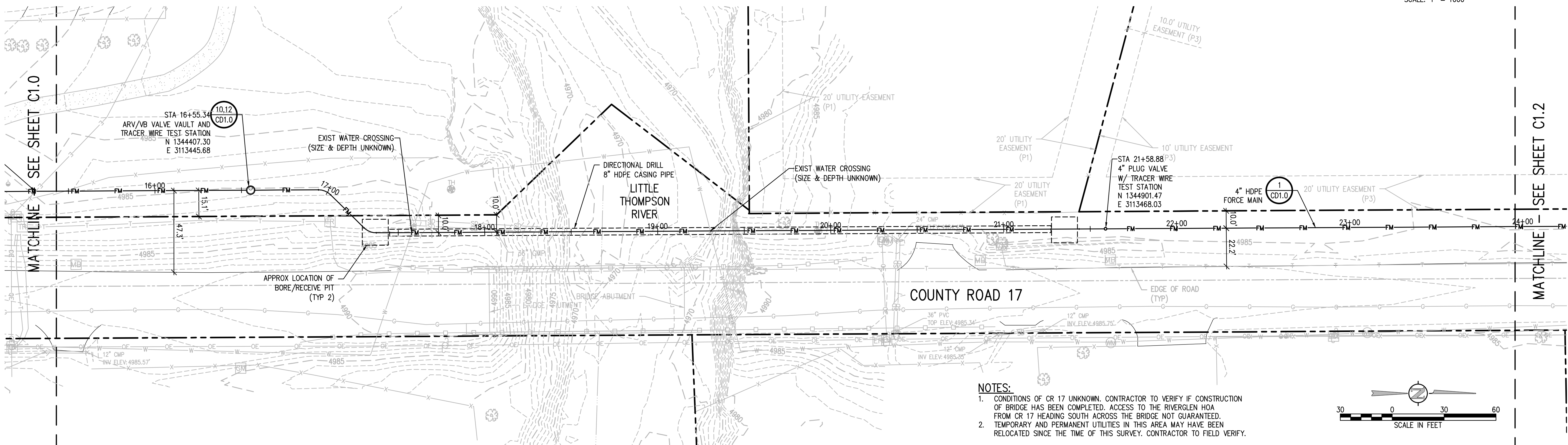
RIVER GLEN
LIFT STATION AND FORCE MAIN DESIGN
SWMP AND EROSION CONTROL DETAILS

SHEET NO.
C0.2

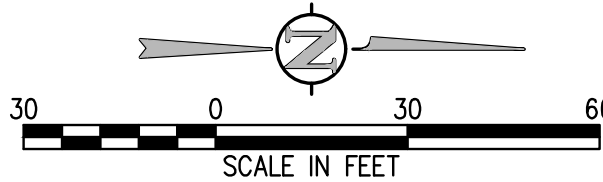




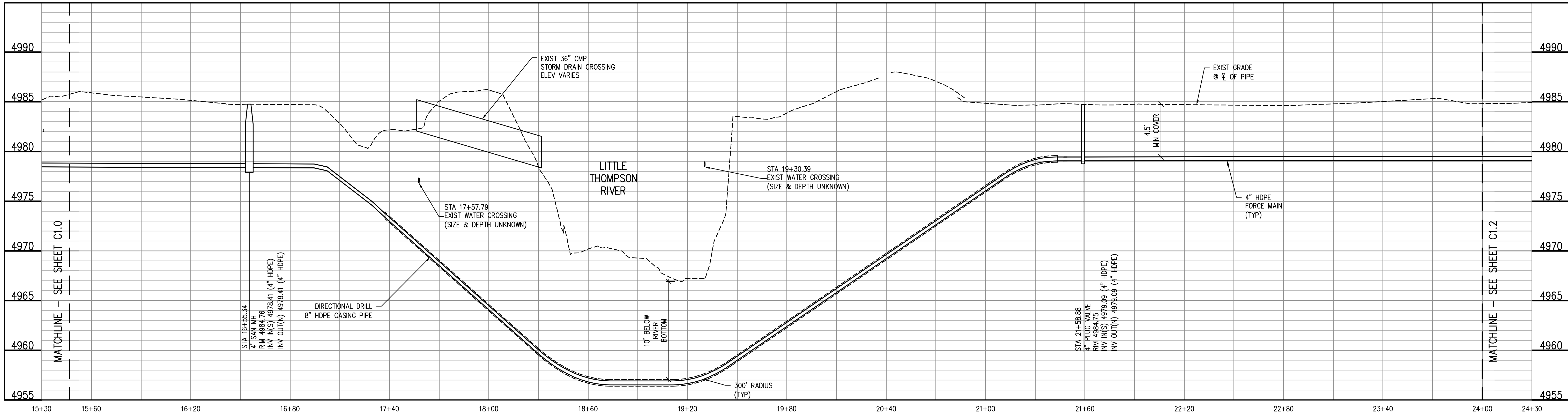
KEY MAP
SCALE: 1" = 1000'



- NOTES:
1. CONDITIONS OF CR 17 UNKNOWN. CONTRACTOR TO VERIFY IF CONSTRUCTION OF BRIDGE HAS BEEN COMPLETED. ACCESS TO THE RIVERGLEN HOA FROM CR 17 HEADING SOUTH ACROSS THE BRIDGE NOT GUARANTEED.
 2. TEMPORARY AND PERMANENT UTILITIES IN THIS AREA MAY HAVE BEEN RELOCATED SINCE THE TIME OF THIS SURVEY. CONTRACTOR TO FIELD VERIFY.



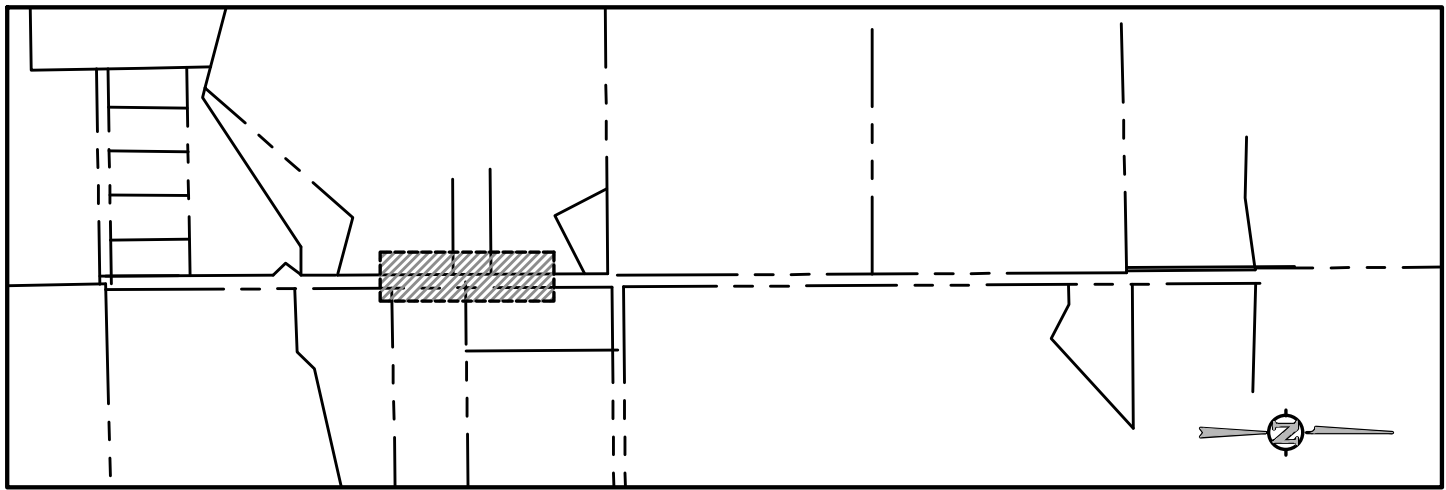
LIFT STATION FORCE MAIN PLAN
SCALE: 1" = 30'



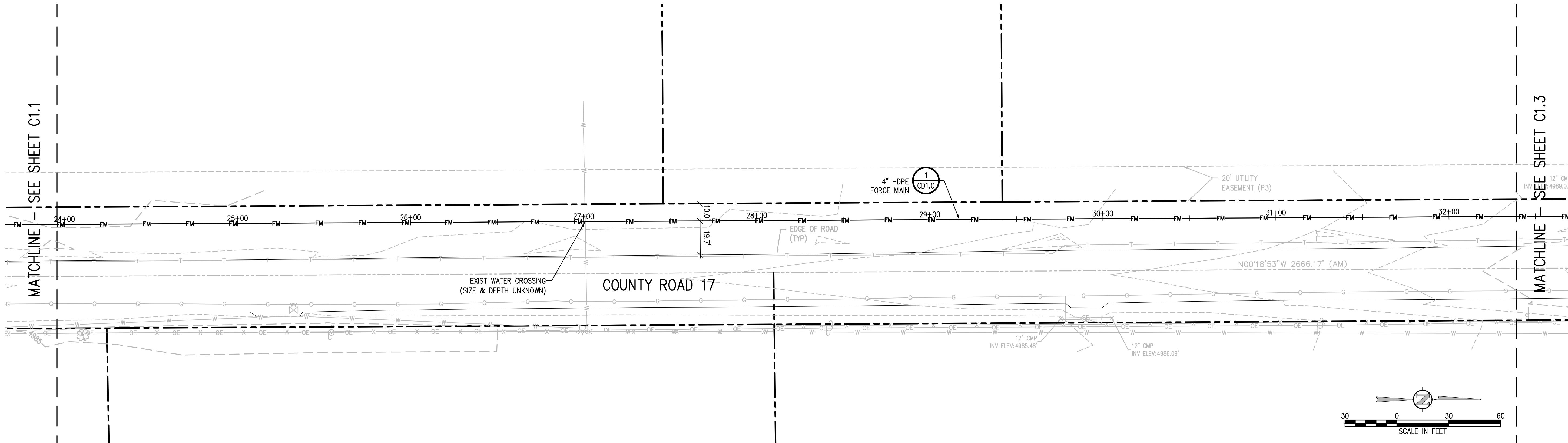
FORCE MAIN PROFILE
SCALE: 1"=30' HORIZ
1"=5' VERT

DESIGNED BY:	WAR
DRAWN BY:	JCD
CHECKED BY:	KAT
JOB #:	1862.4c
DATE:	MARCH 2014
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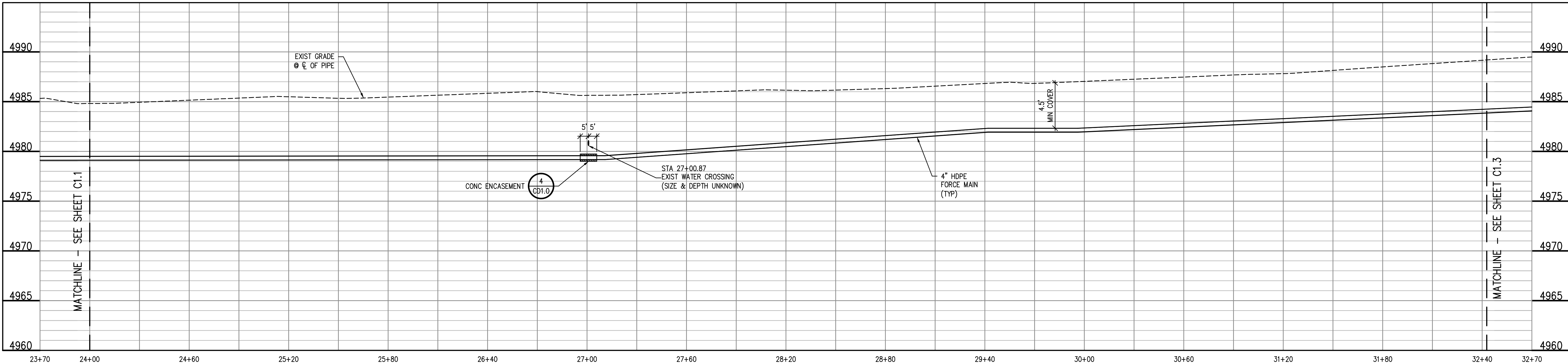
RIVER GLEN
LIFT STATION AND FORCE MAIN DESIGN
PLAN AND PROFILE



KEY MAP
SCALE: 1" = 1000'



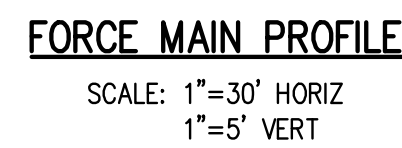
LIFT STATION FORCE MAIN PLAN
SCALE: 1" = 30'



FORCE MAIN PROFILE
SCALE: 1"=30' HORIZ
1"=5' VERT

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RIVER GLEN
LIFT STATION AND FORCE MAIN DESIGN
PLAN AND PROFILE



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RIVER GLEN
LIFT STATION AND FORCE MAIN DESIGN
PLAN AND PROFILE

SHEET NO.

C1.3

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RIVER GLEN

LIFT STATION AND FORCE MAIN DESIGN

PLAN AND PROFILE

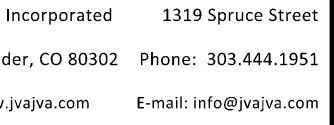
SHEET NO.

C1.4

KEY MAP
SCALE: 1" = 1000'

LIFT STATION FORCE MAIN PLAN
SCALE: 1" = 30'

FORCE MAIN PROFILE
SCALE: 1"=30' HORIZ
1"=5' VERT



Incorporated 1319 Spruce Street
 der, CO 80302 Phone: 303.444.1951
 r.jvaja.com E-mail: info@jvaja.com

NO.	DATE	DESD	DOWN
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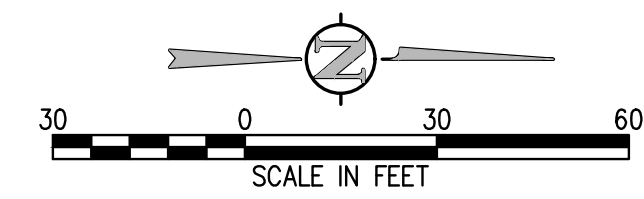
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DOB #:	1862.4c
DATE:	MARCH 2014
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RIVER GLEN
 LIFT STATION AND FORCE MAIN DESIGN

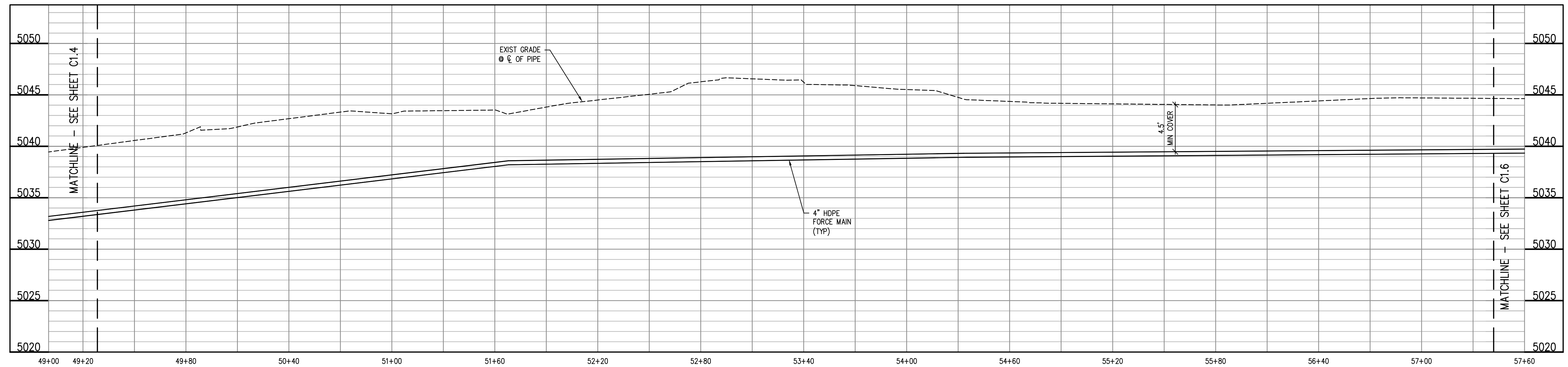
PLAN AND PROFILE

EET NO.

C1.5



LIFT STATION FORCE MAIN PLAN
SCALE: 1" = 30'



FORCE MAIN PROFILE
SCALE: 1"=30' HORIZ
1"=5' VERT

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RIVER GLEN

LIFT STATION AND FORCE MAIN DESIGN

PLAN AND PROFILE

SHEET NO.

C1.6

LIFT STATION FORCE MAIN PLAN
SCALE: 1" = 30'

FORCE MAIN PROFILE
SCALE: 1"=30' HORIZ
1"=5' VERT

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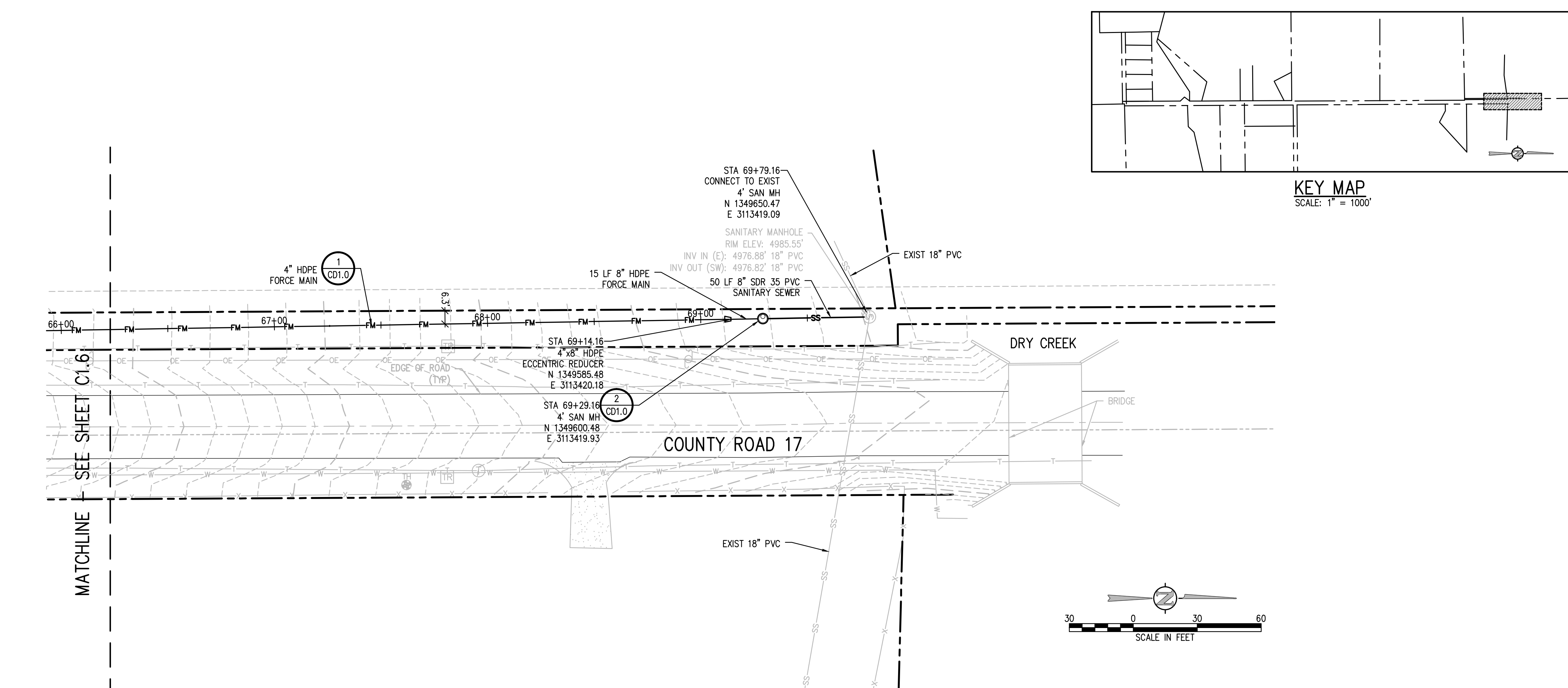
RIVER GLEN

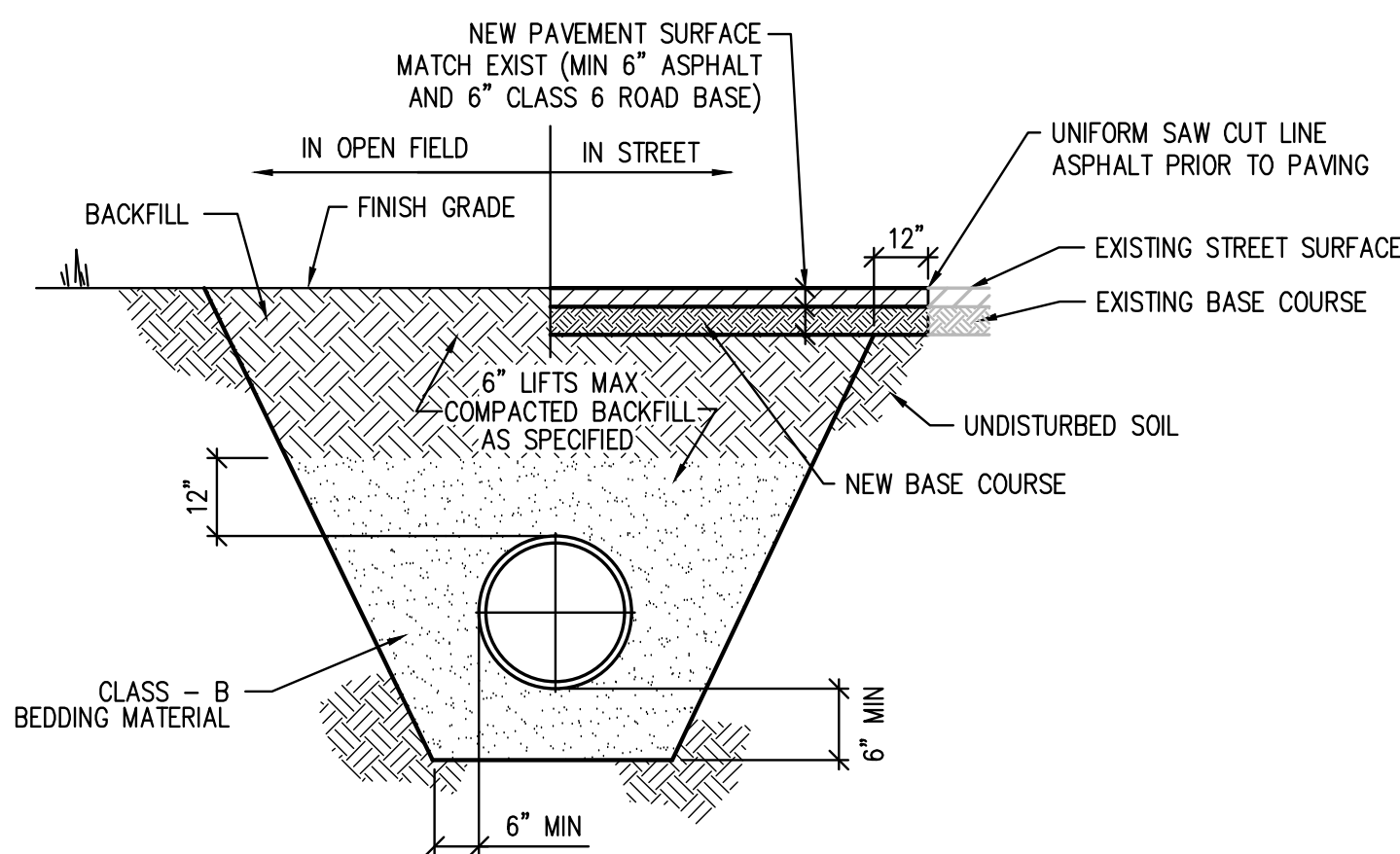
LIFT STATION AND FORCE MAIN DESIGN

PLAN AND PROFILE

SHEET NO.

C1.7



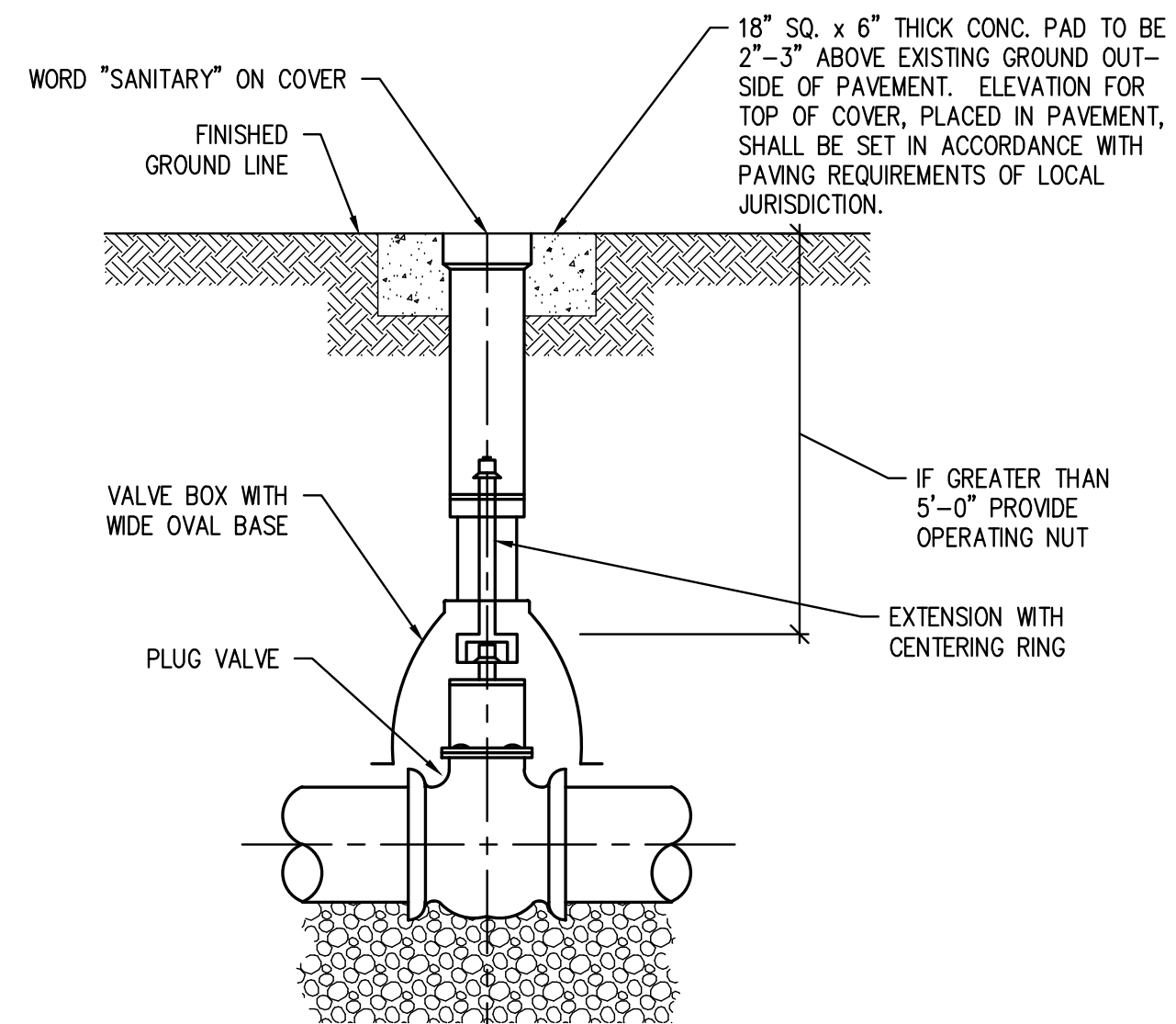


NOTES:

1. IF UNSTABLE MATERIALS ARE FOUND IN TRENCH, OVEREXCAVATE PER SPECIFICATIONS.
2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES.
3. PRIOR TO PLACEMENT OF ASPHALT, PAVEMENT EDGE SHALL BE SAW CUT TO A CLEAN, VERTICAL, AND STRAIGHT EDGE & OUTSIDE OF THE WHEEL PATH.
4. MINIMUM COVER IS 4.5' BELOW FINISHED GRADE.
5. COMPLY WITH LARIMER COUNTY URBAN ROAD STANDARDS.

SEWER PIPE BEDDING DETAIL

NTS

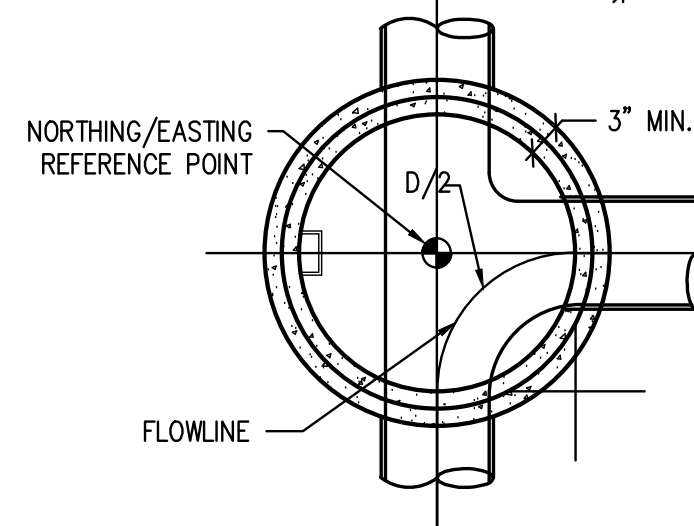
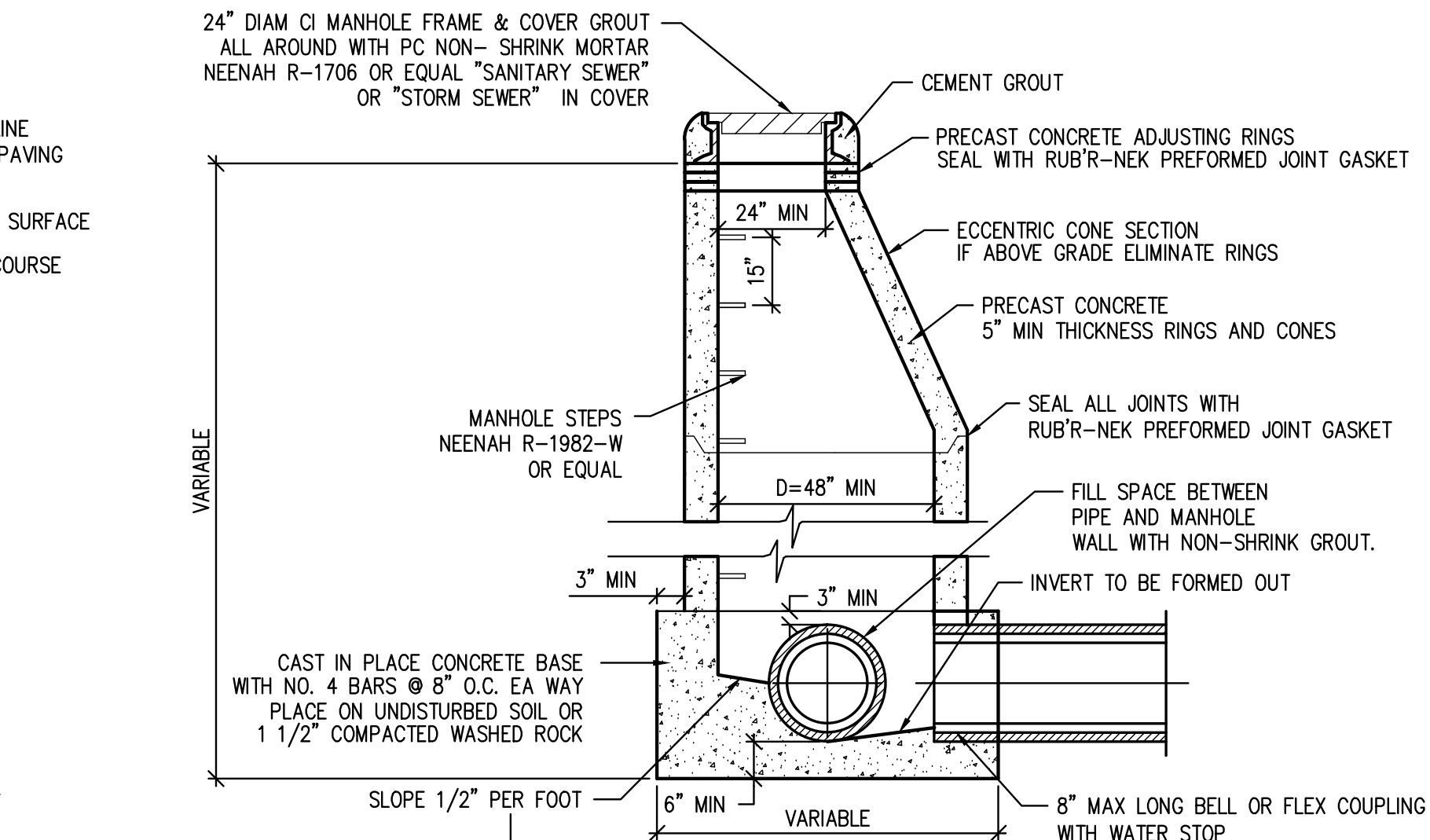


NOTE:

1. CARE SHALL BE TAKEN WHEN INSTALLING VALVES ON LINES TO ASSURE PROPER SUPPORT OF THE VALVES.
2. WOOD BLOCKS OR 3/4" WASHED ROCK TO BE INSTALLED UNDER THE VALVE TO PROVIDE PROPER SUPPORT WHERE REQUIRED.
3. VALVES SHALL NOT BE PLACED IN CONCRETE CROSS PANS.

PLUG VALVE DETAIL

NTS

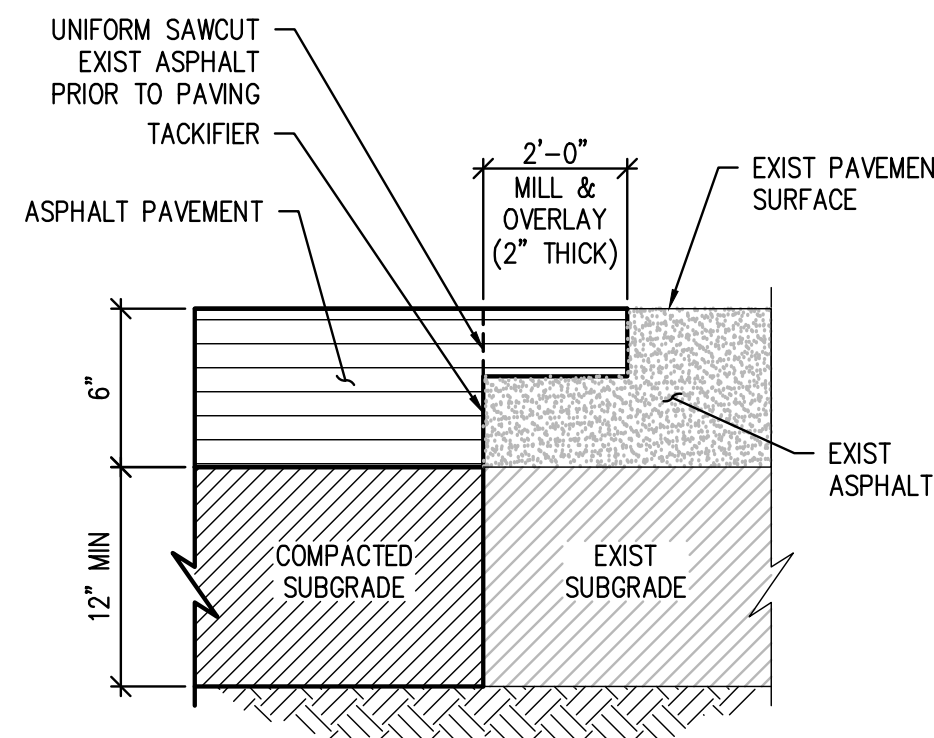


TYPICAL PRECAST MANHOLE DETAIL

NTS

NOTES:

1. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING BASE CONCRETE.
2. BLOCK-OUTS WHEN APPROVED SHALL EXTEND A MIX OF 6" PAST MANHOLE OD AND BE SATISFACTORILY PLUGGED AND SEALED.
3. CONCRETE MANHOLES MAY BE POURED IN PLACE ONLY WITH PRIOR APPROVAL.
4. ALL MORTAR SHALL BE MIXED WITH A TYPE II CEMENT.
5. BENCH MUST HAVE A BRUSHED, NON-SKID SURFACE.



NOTES:

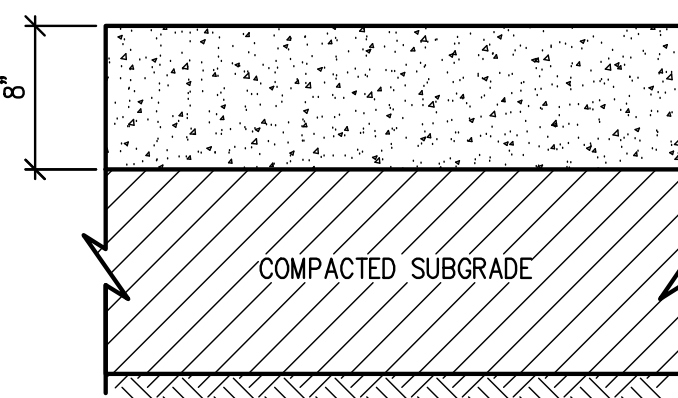
1. MATCH EXIST ASPHALT DEPTH UNLESS OTHERWISE SPECIFIED.
2. COMPACT SUBGRADE PER SPECIFICATIONS.

ASPHALT "T" PATCH DETAIL

NTS

PRESSURE CLEANOUT DETAIL

NTS

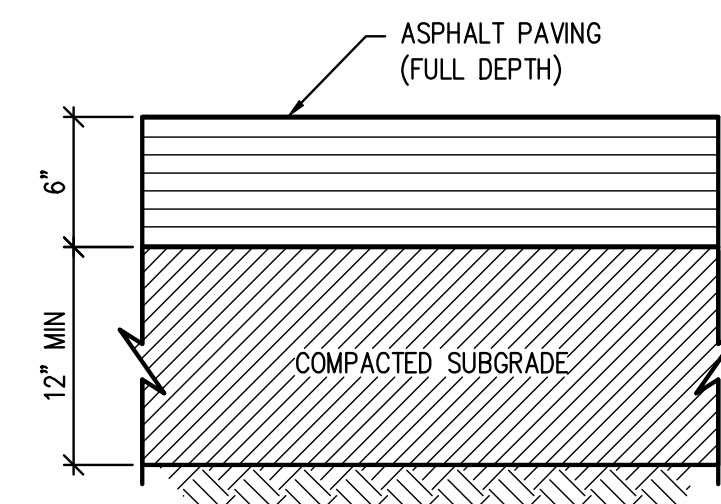


NOTE:

COMPACT SUBGRADE PER SPECIFICATIONS.

CONCRETE PAVING SECTION DETAIL

NTS

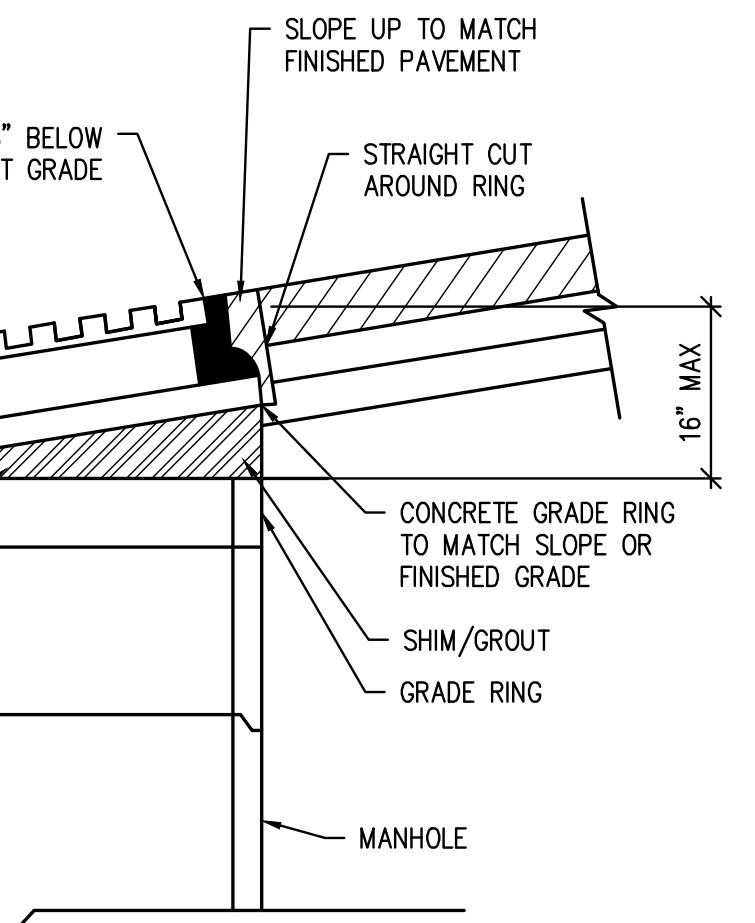


NOTE:

COMPACT SUBGRADE PER SPECIFICATIONS.

ASPHALT PAVING SECTION DETAIL

NTS

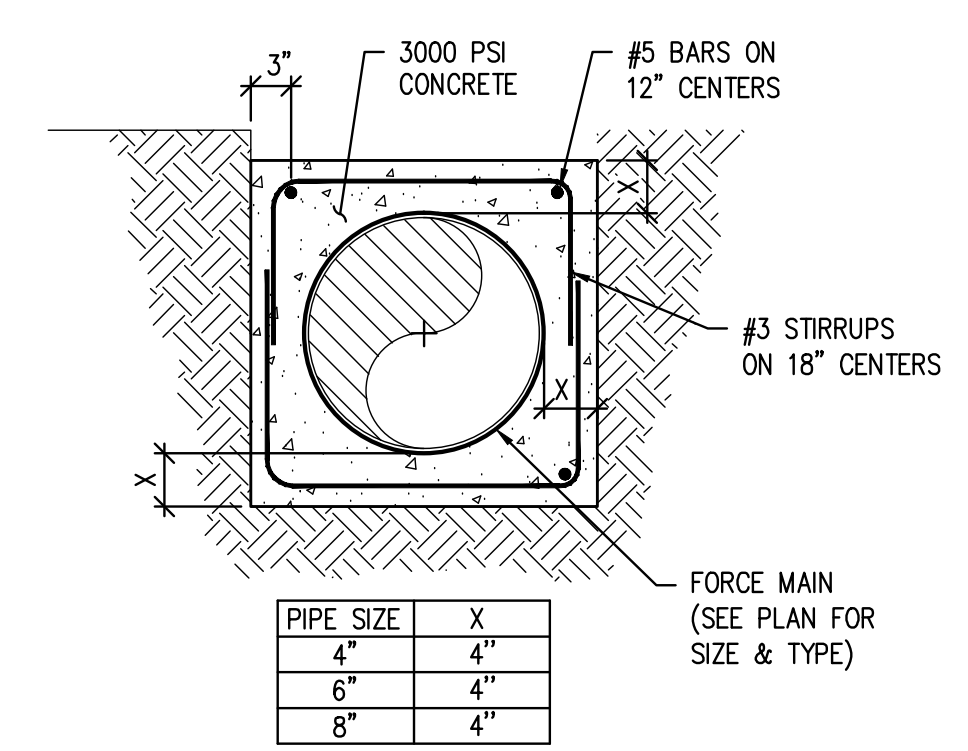
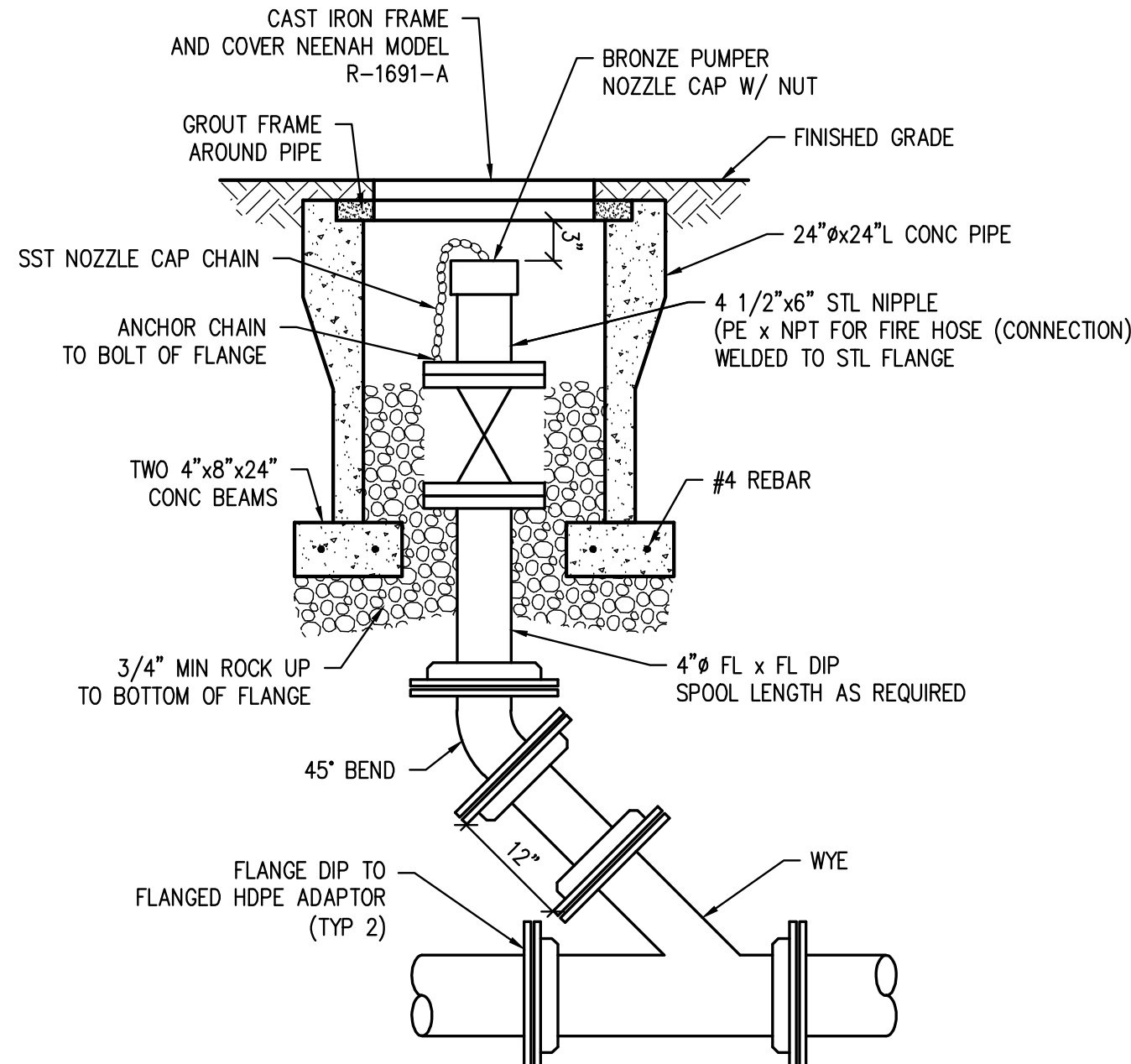


NOTES:

1. COMPLY WITH LARIMER COUNTY URBAN AREA STREET STANDARDS DRAWING NO. 1201.
2. GROUT SHALL BE A MIXTURE OF 100 LBS GROUT MIX, 26 LBS WATER (3.12 GAL), AND 100 LBS OF SAND CONFORMING TO ASTM C35.
3. MANHOLES SHALL NOT BE LOCATED IN CROSSPANS, GUTTERS, OR WHEEL PATH
4. SHIM AND GROUT TO MAKE RING AND COVER FLUSH WITH THE FINISHED PAVEMENT SURFACE.

STANDARD MANHOLE COVER DETAIL

NTS

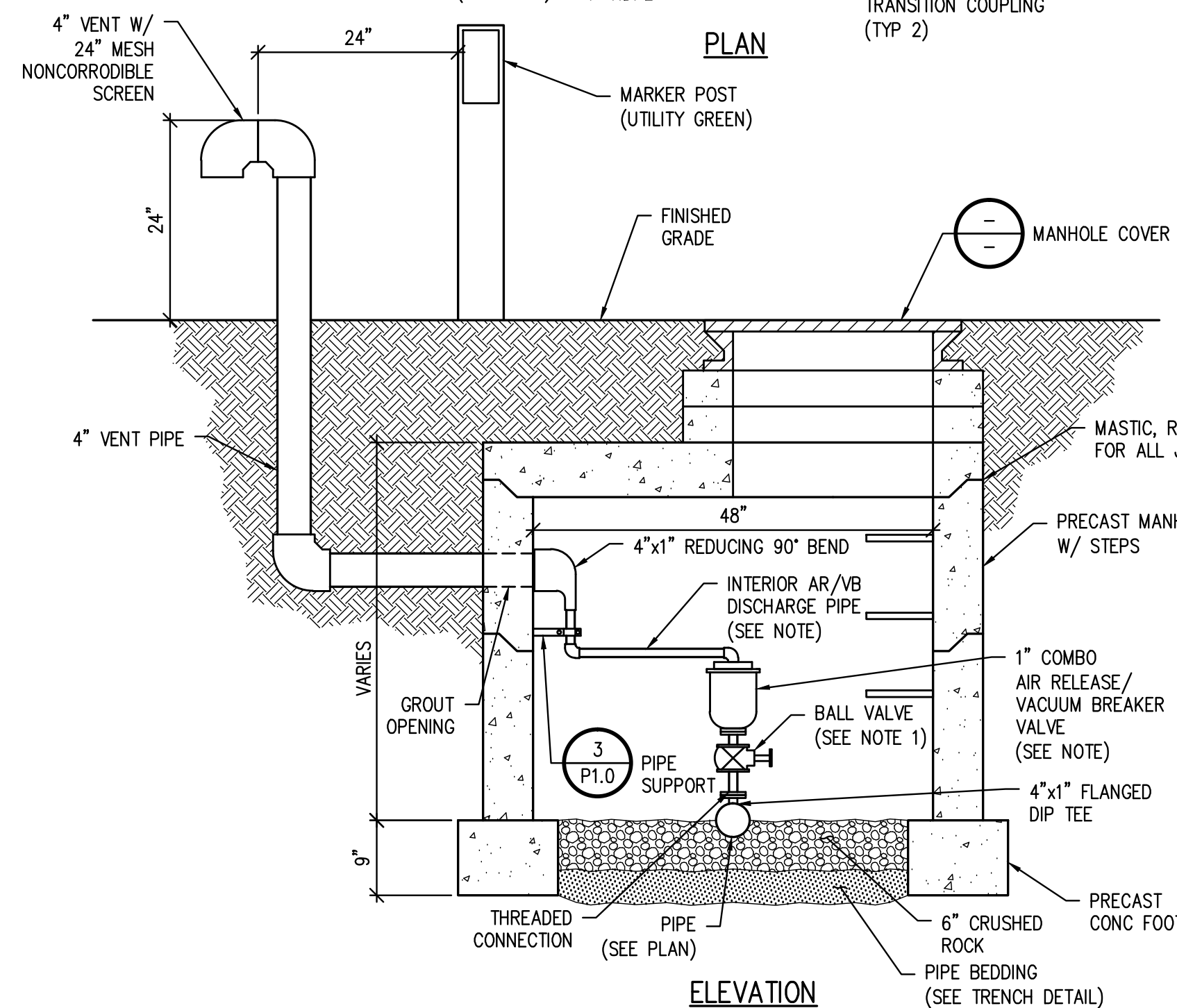
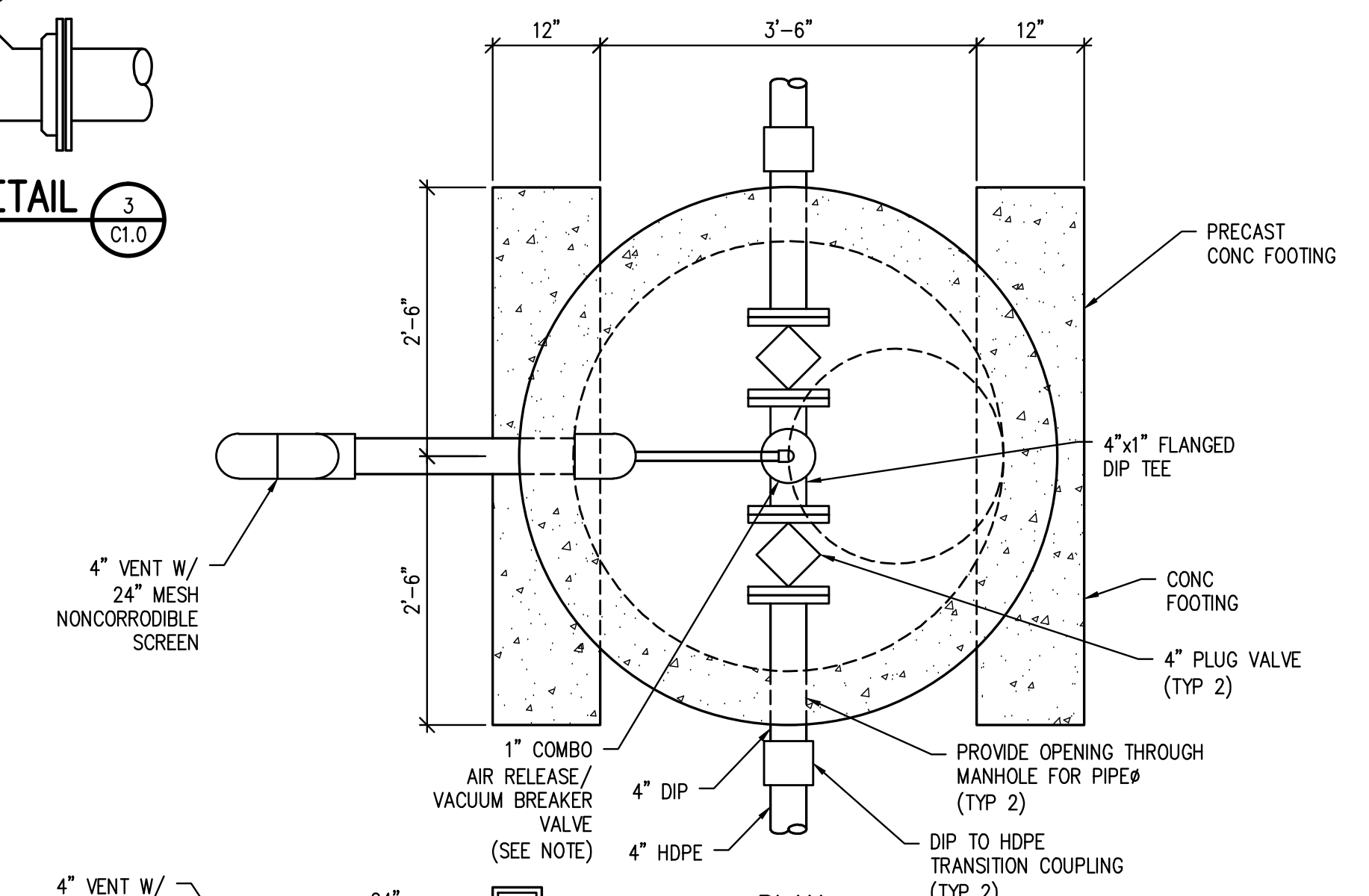


CONCRETE ENCASEMENT DETAIL

NTS

4

C1.2



NOTES:

1. INSTALL IN ACCORDANCE WITH VALVE SCHEDULE, THIS SHEET.
2. PROVIDE INTERIOR VENT PIPE CONNECTED TO AR/VB DISCHARGE. INTERIOR VENT PIPE SIZE IS 1" DIAMETER SCH 40 PVC. PROVIDE REDUCER TO TRANSITION TO 4" VENT PIPE OUTSIDE OF VAULT.

AIR RELEASE/VACUUM BREAKER COMBINATION VALVE SCHEDULE

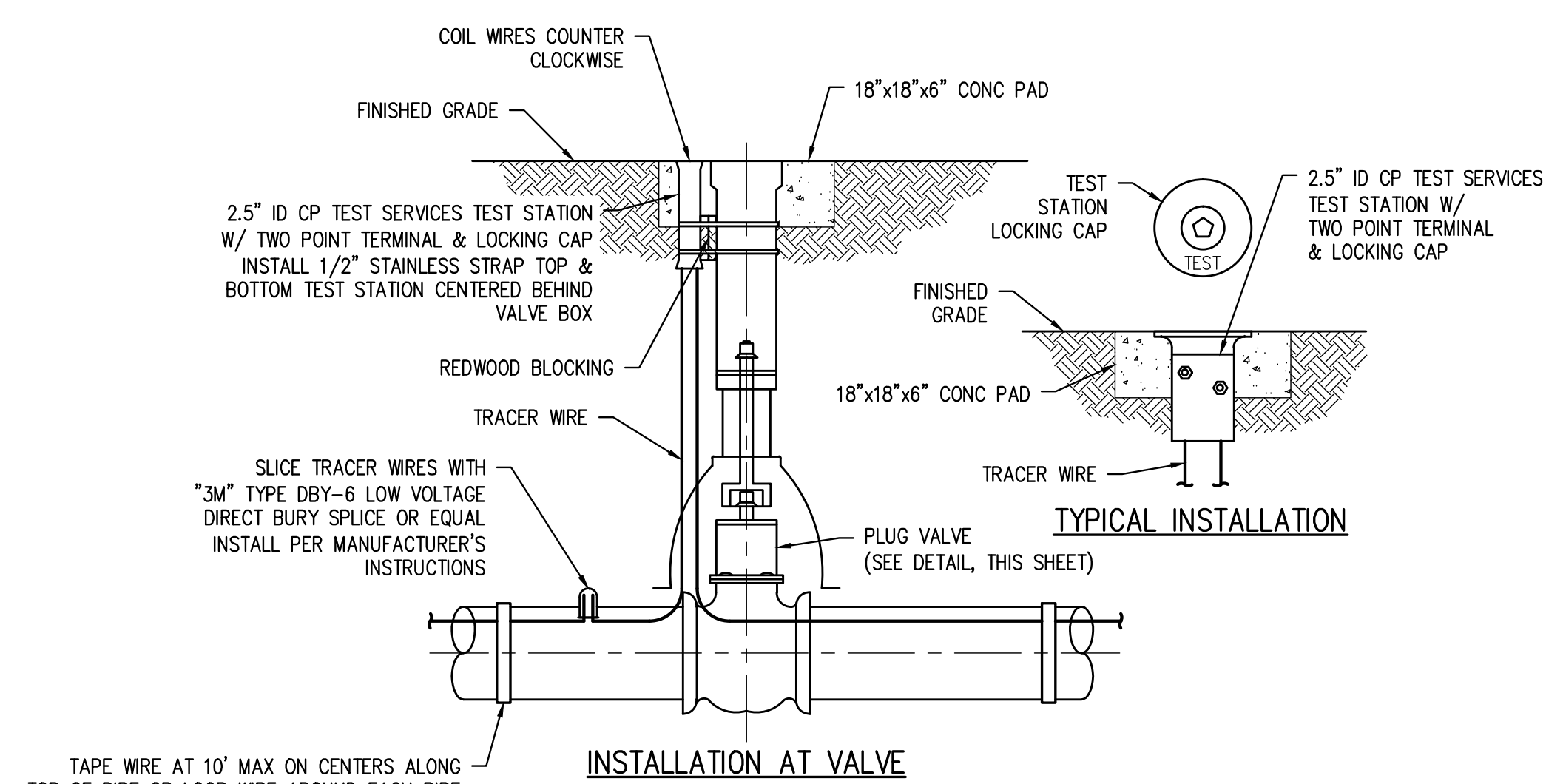
STATION	SIZE	MIN. OPERATING PRESSURE (PSI)	MAX. OPERATING PRESSURE (PSI)	CONNECTION	CONNECTION
16+59.27	1"	7.25	232	FLANGED	FLANGED
58+20.64	1"	7.25	232	SCREW	SCREW

COMBINATION AIR RELEASE/VACUUM BREAKER VALVE INSTALLATION DETAIL

NTS

12

C1.1



NOTES:

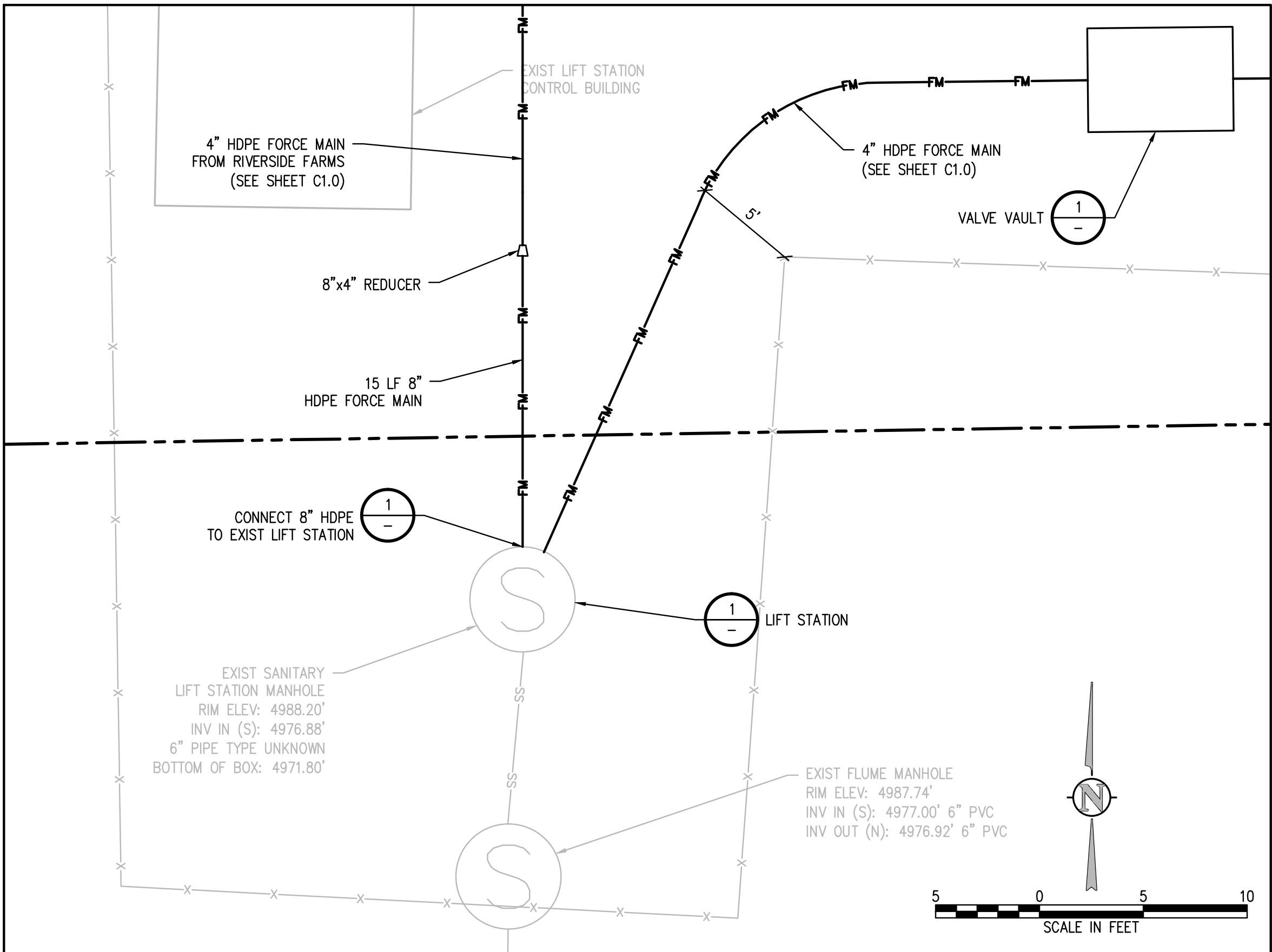
1. SPACE TRACER WIRE TEST STATIONS AT 500' MAX SPACING
2. FOR HORIZONTAL DIRECTIONAL DRILLING TRACER WIRE, PROVIDE #12 COPPER CLAD OR 1/4" SS AIRCRAFT CABLE, MANUFACTURER AS SPECIFIED IN SECTION 02530.

TRACER WIRE INSTALLATION AND TEST STATION DETAIL

NTS

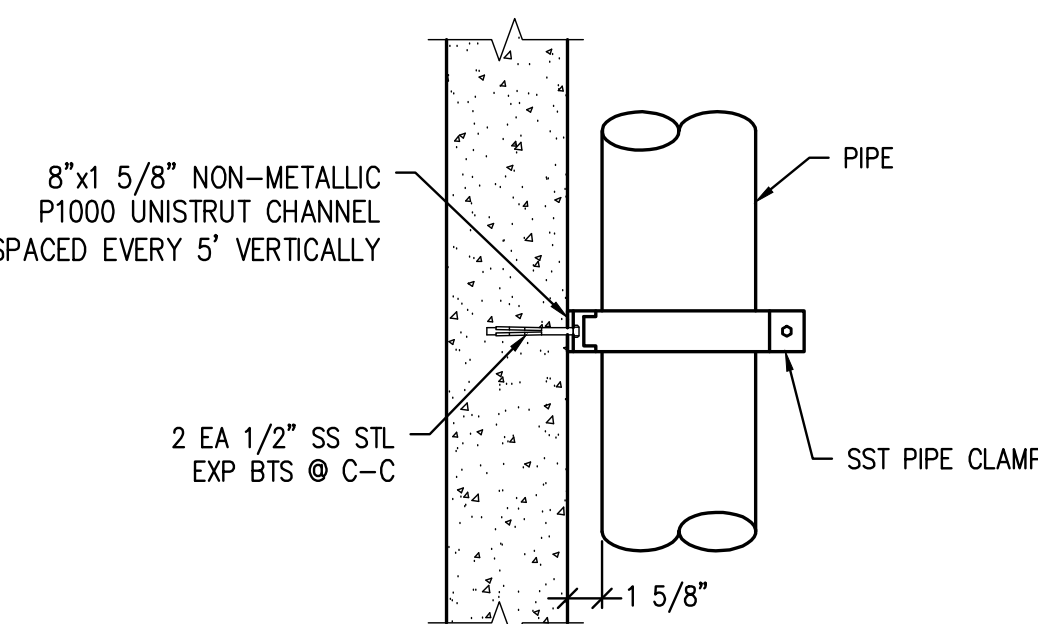
10

C1.1



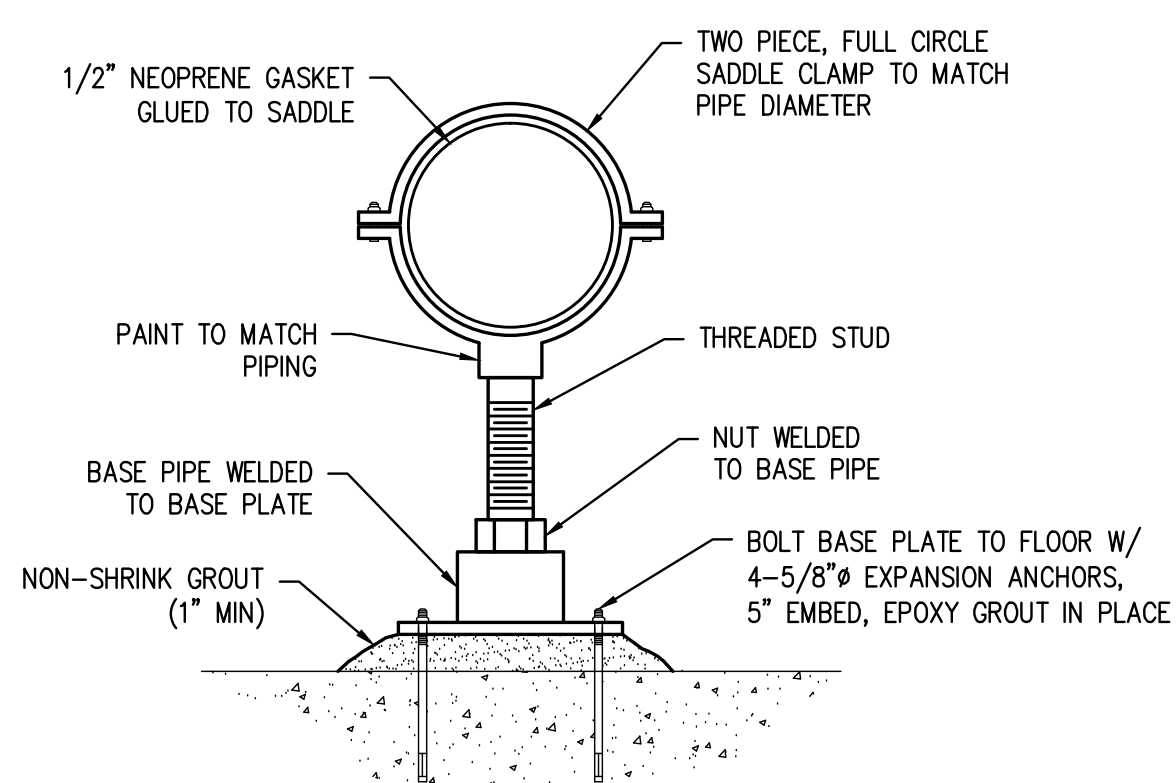
LIFT STATION FORCE MAIN PLAN

SCALE: 1" = 5'



TYPICAL WALL PIPE SUPPORT DETAIL

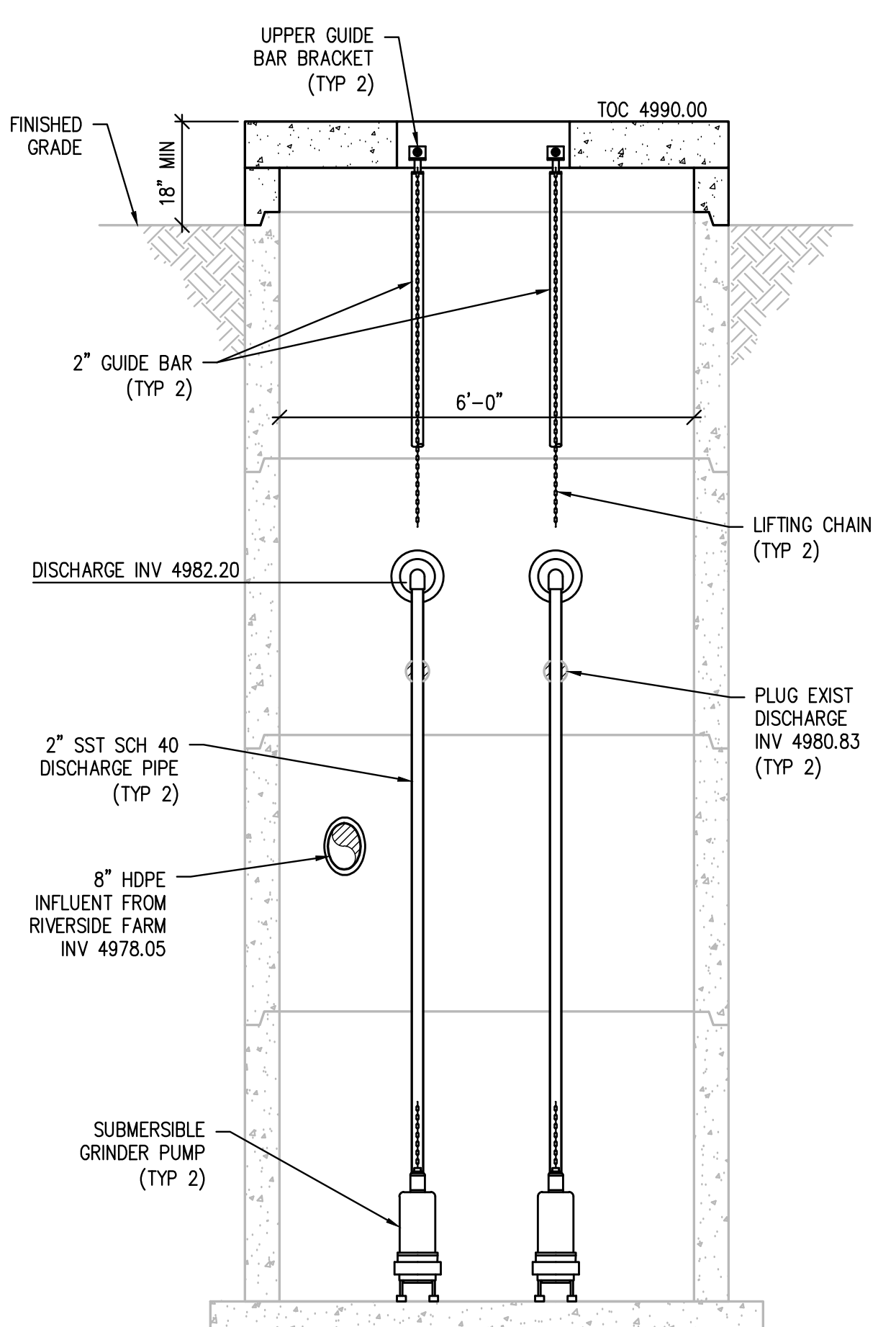
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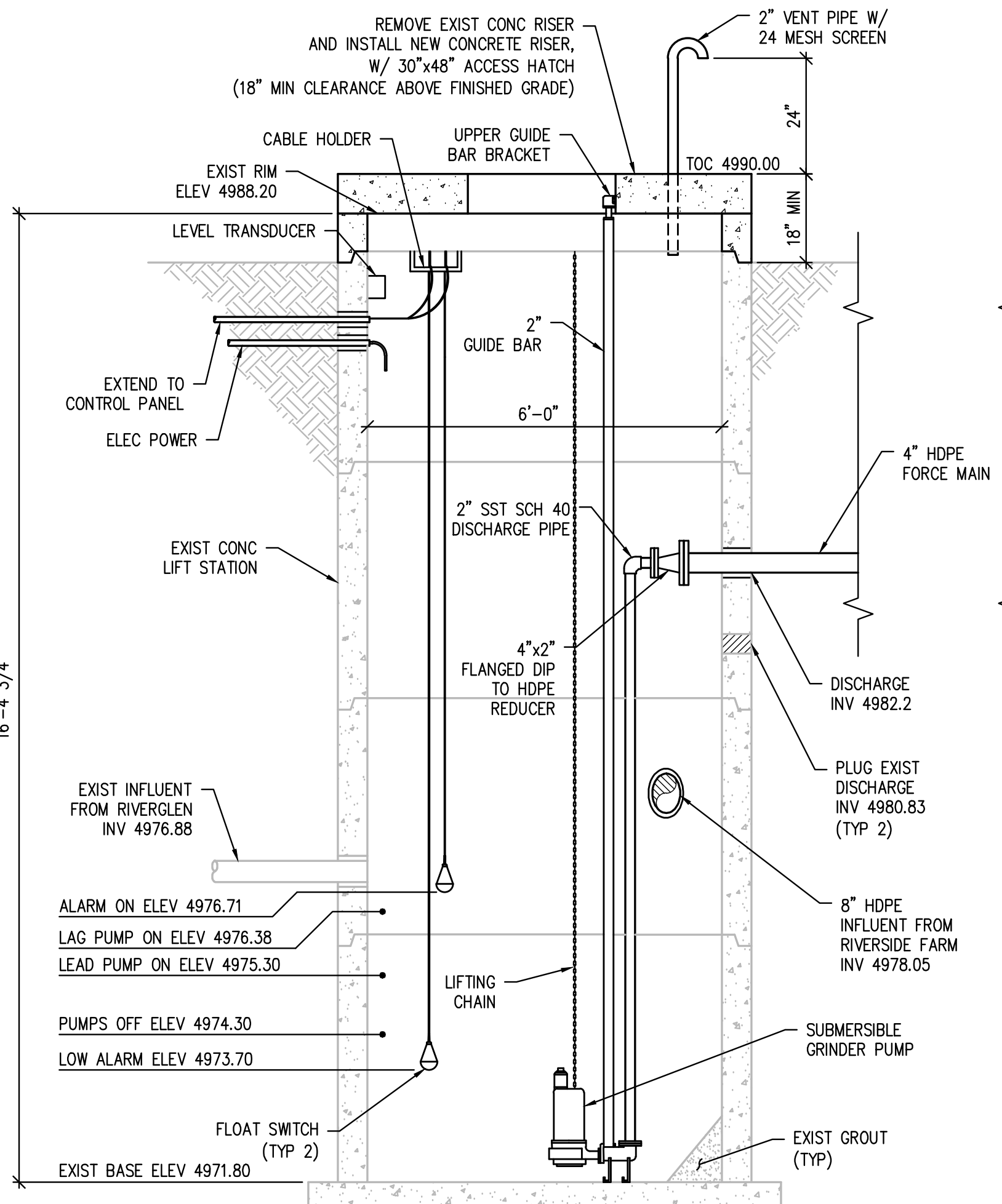
PIPE SIZE	CLAMP SIZE	THREADED STUD Ø	BASE PLATE	BASE PIPE
2"-3"	.375"x1.5"	.75"	6"x6"	2"
4"-12"	5"x2"	1"	8"x8"	2"
14"-16"	.625"x3"	1.5"	12"x12"	3"
18"-24"	.75"x4"	2"	12"x12"	4"

FLOOR PIPE SUPPORT DETAIL

NTS



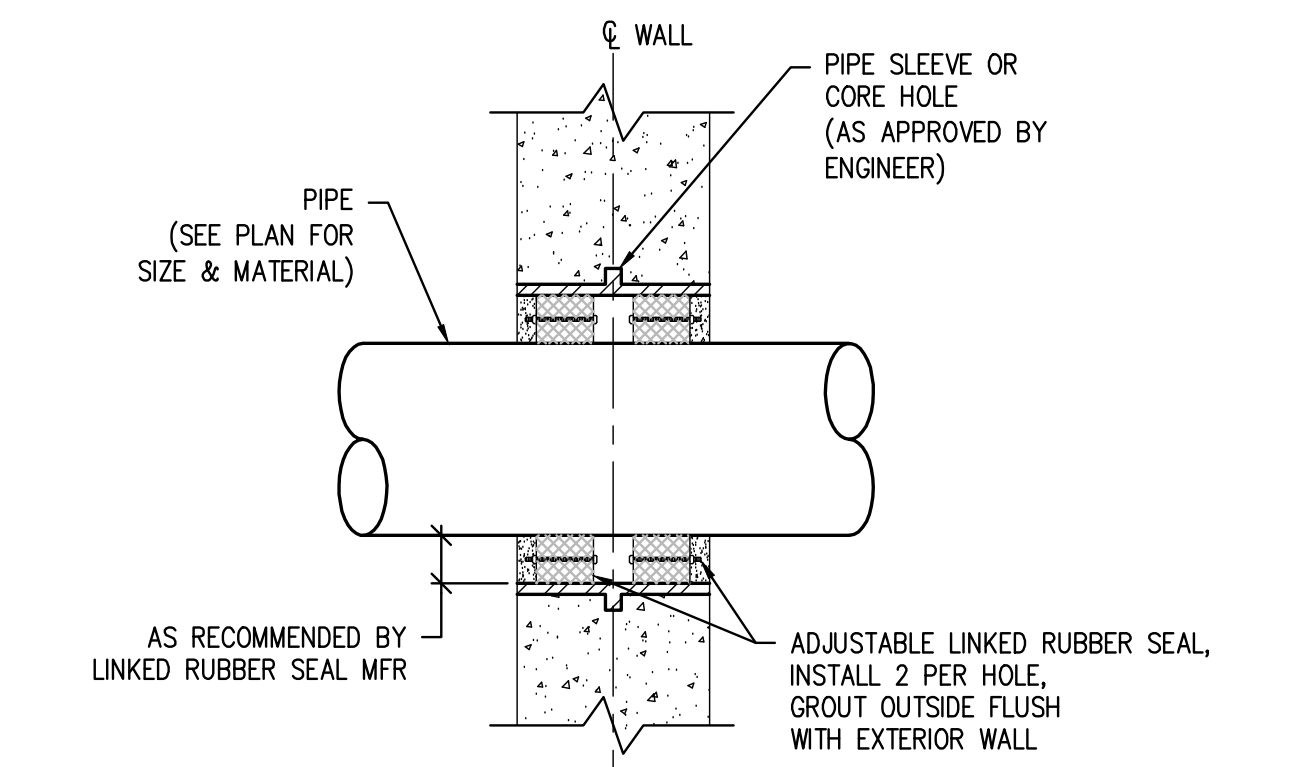
LIFT STATION SECTION B



LIFT STATION SECTION A

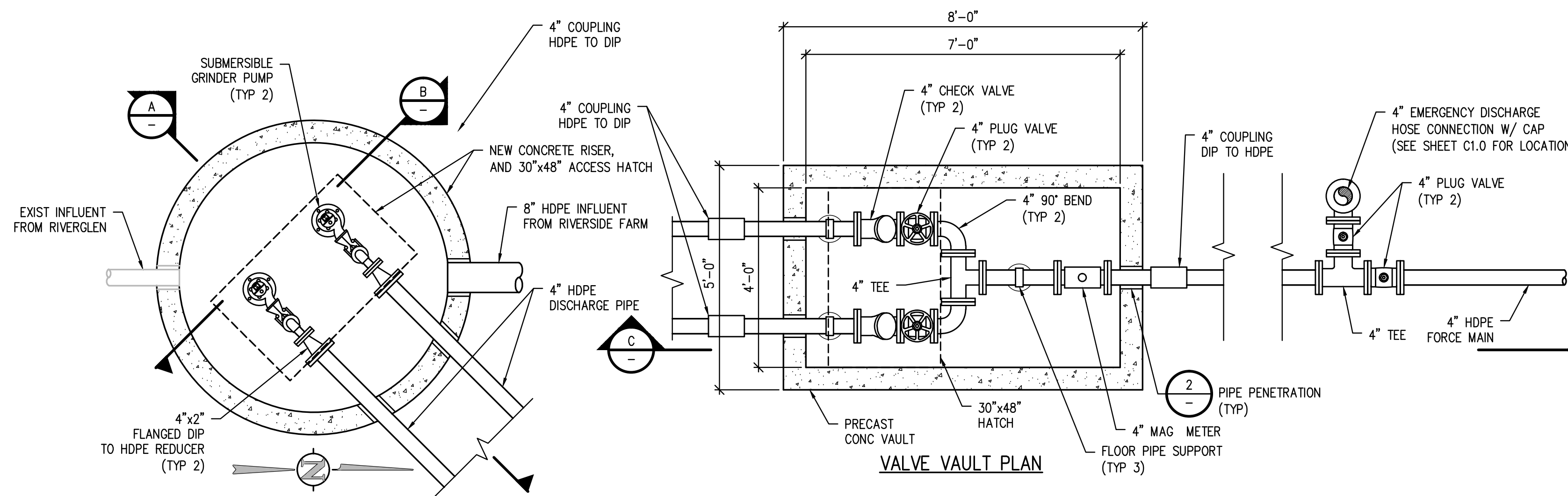
LIFT STATION AND VALVE VAULT DETAIL

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

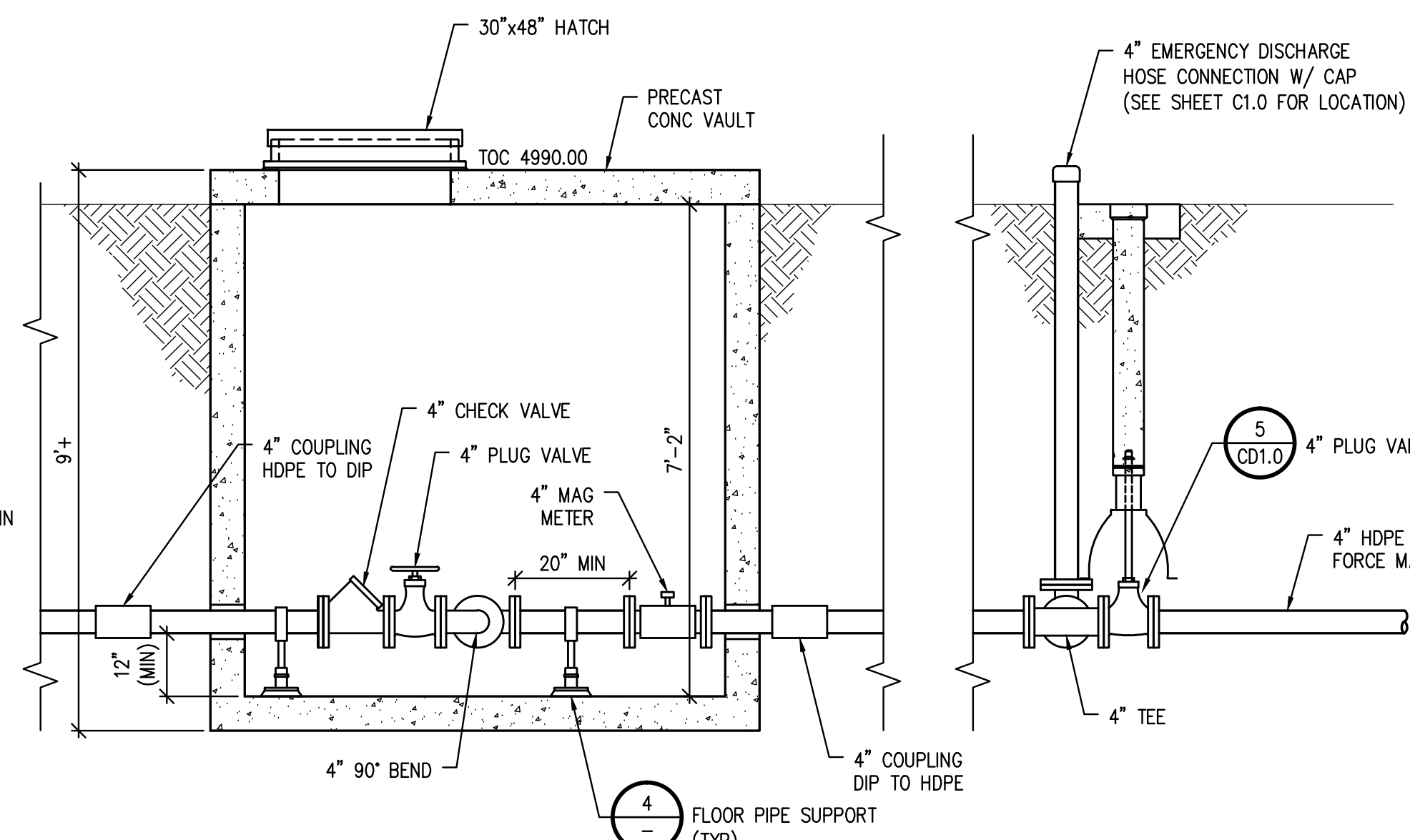


WALL PENETRATION WITH CORE HOLE DETAIL

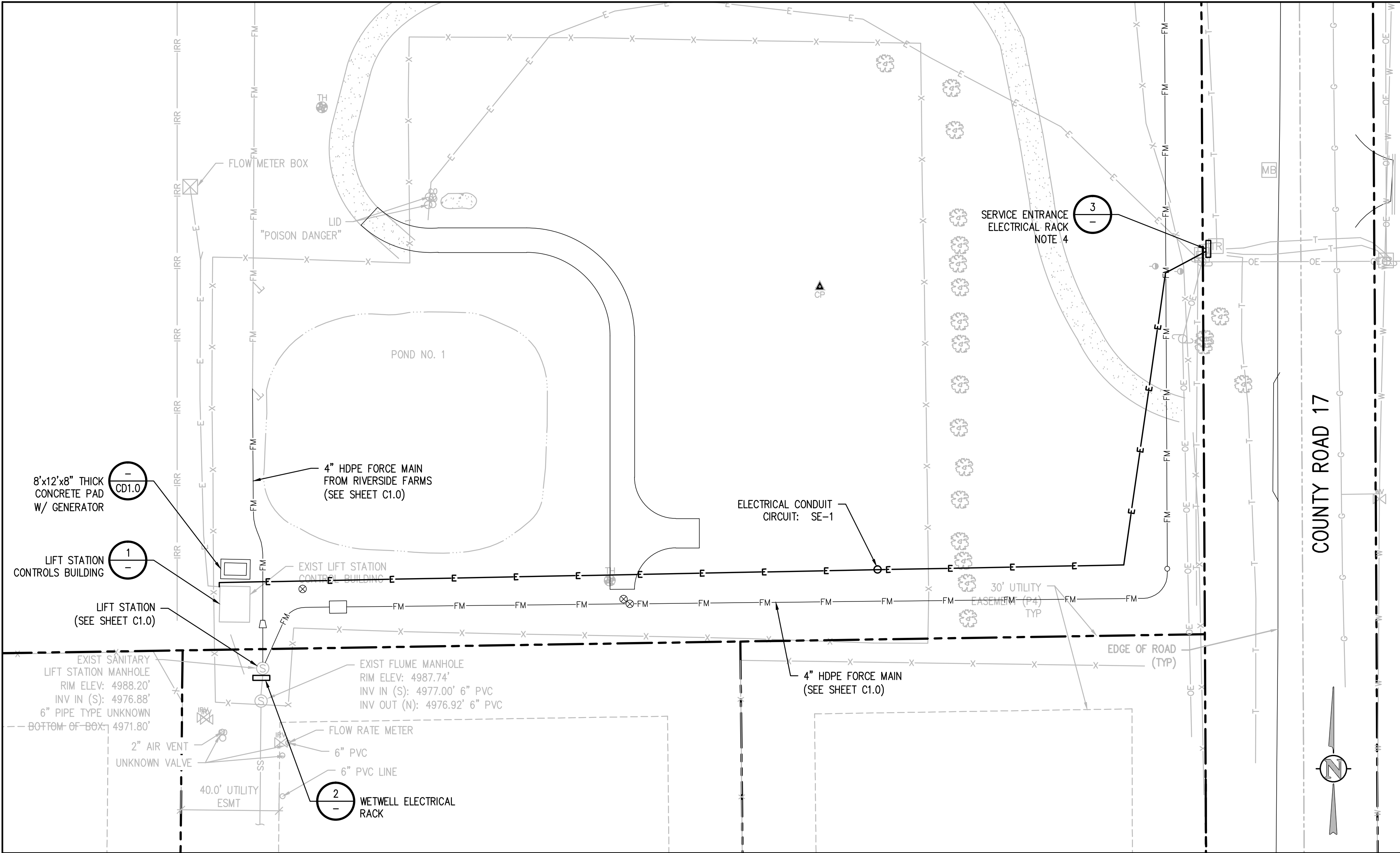
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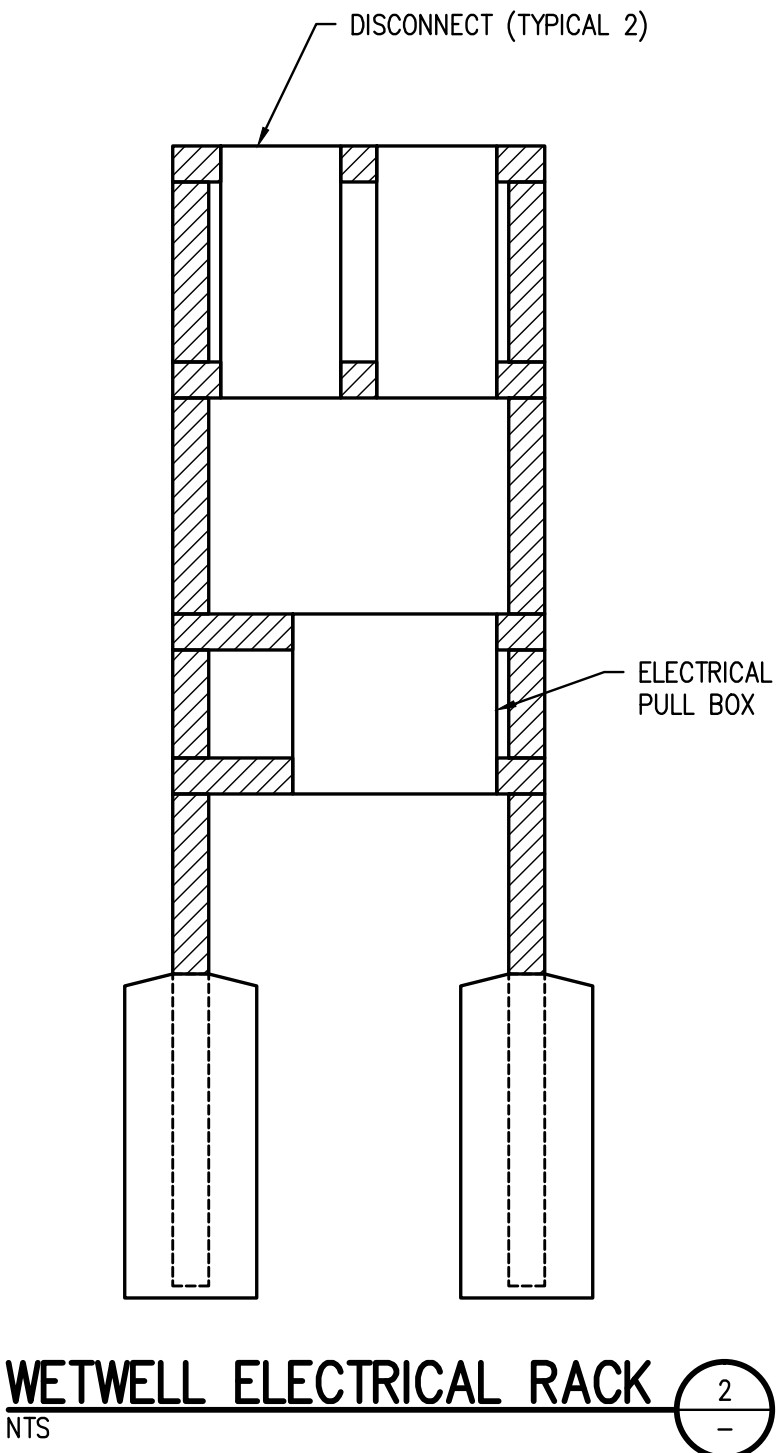
VALVE VAULT PLAN



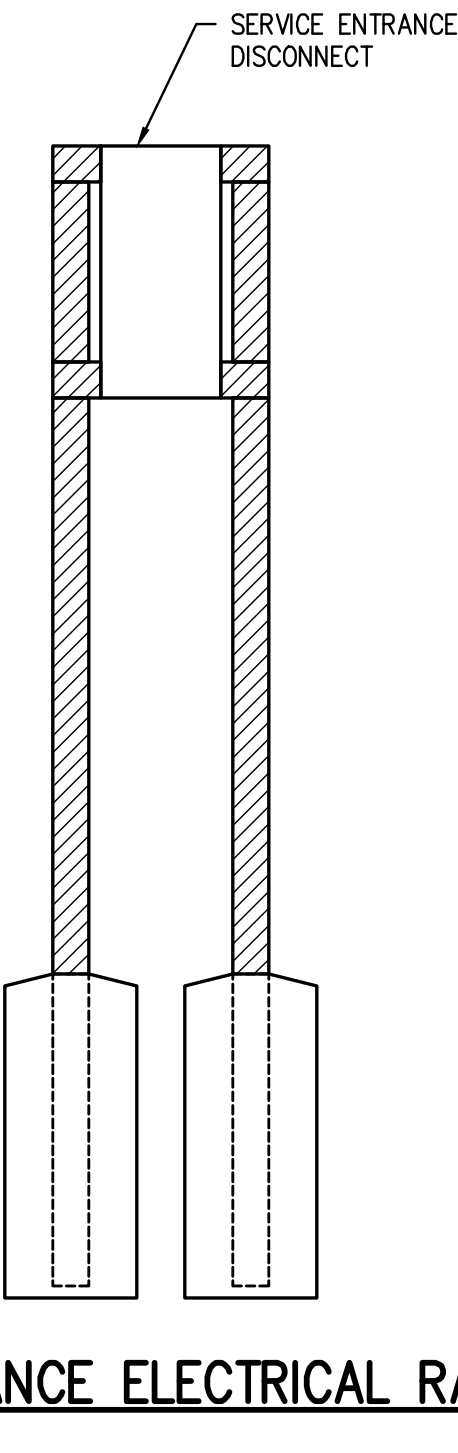
VALVE VAULT SECTION C



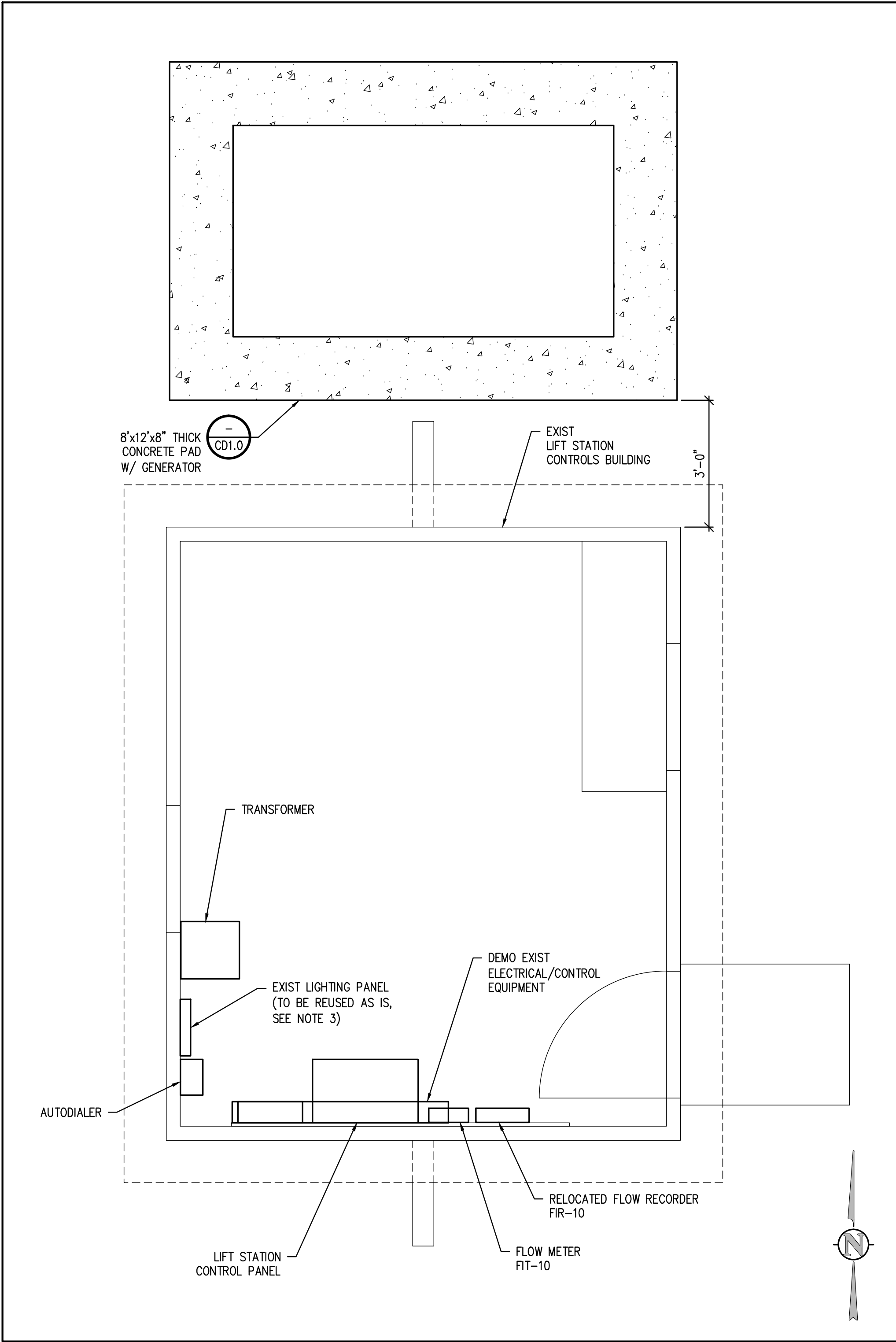
ELECTRICAL SITE PLAN
SCALE: 1" = 30'



WETWELL ELECTRICAL RACK 2
NTS

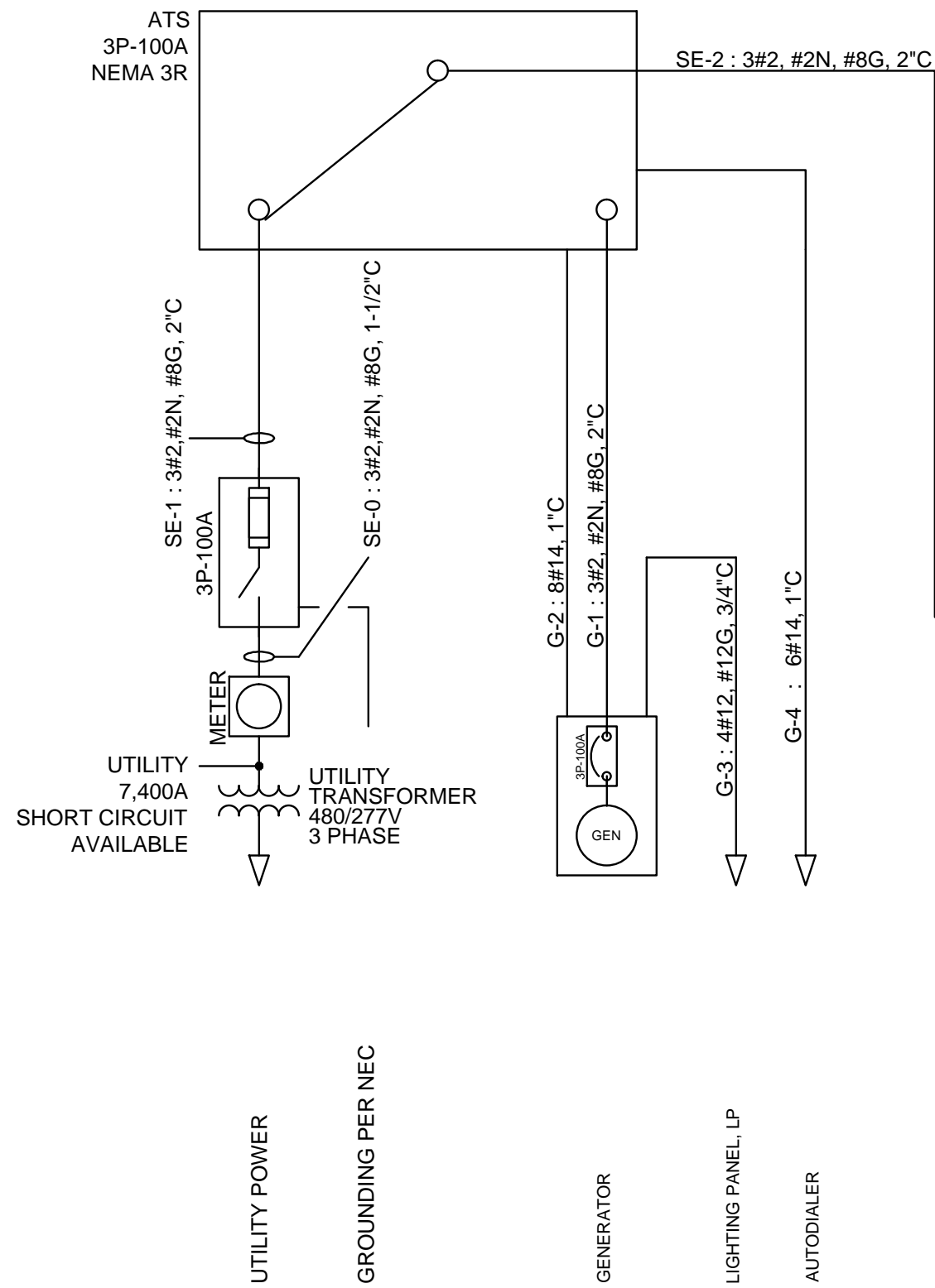


SERVICE ENTRANCE ELECTRICAL RACK 3
NTS

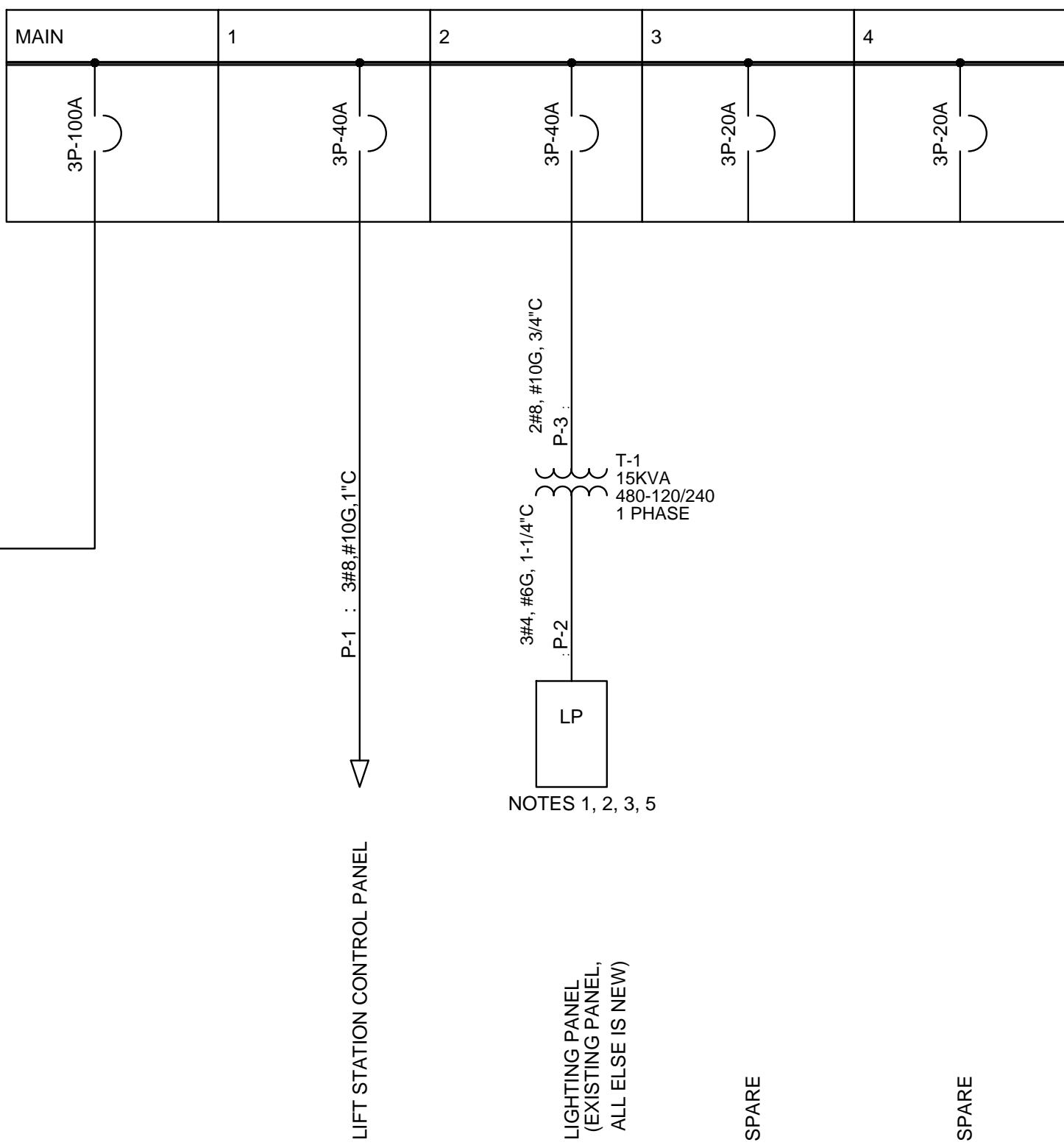


LIFT STATION CONTROLS BUILDING ELECTRICAL PLAN 1
SCALE: 1/2" = 1'-0"

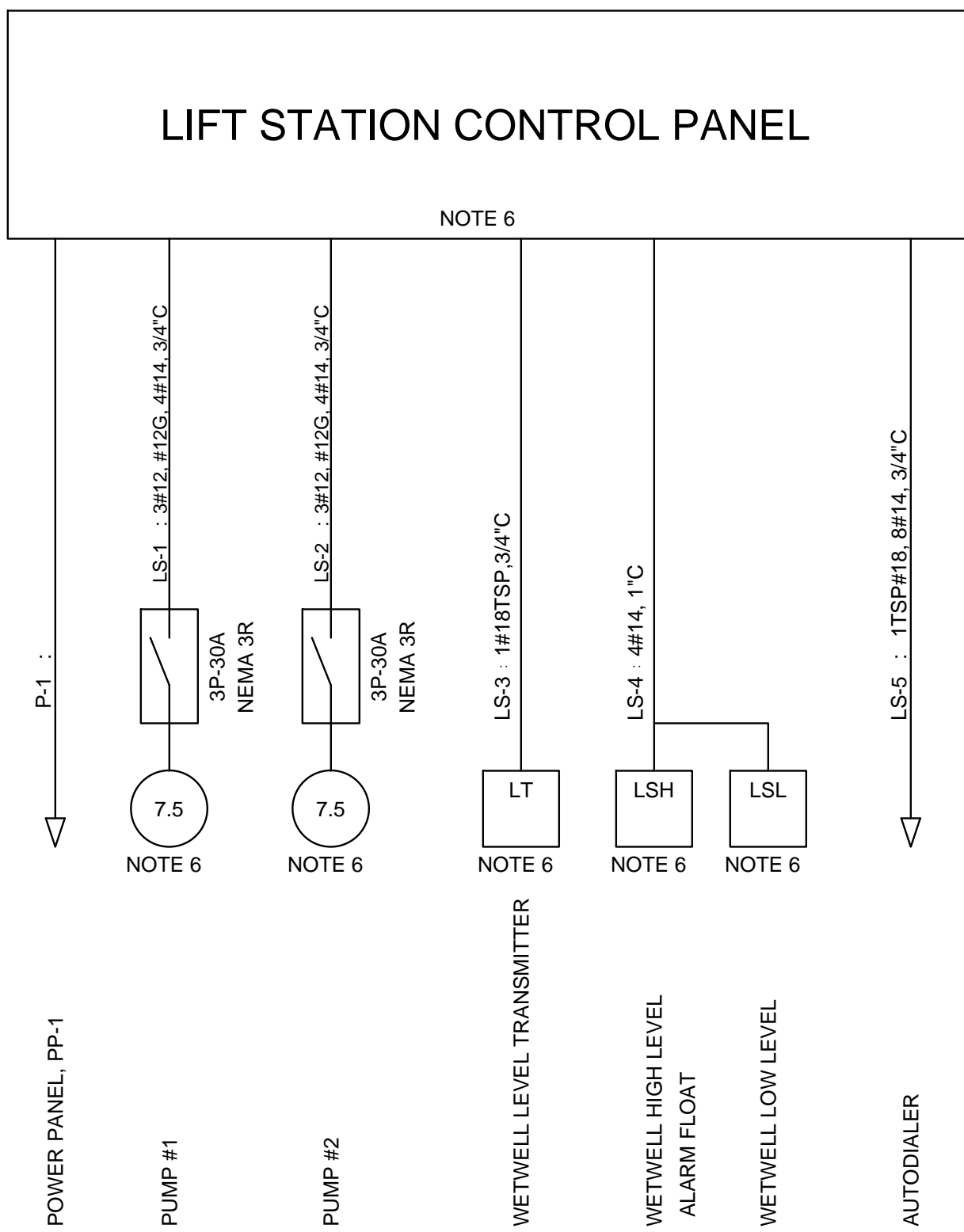
- NOTES:
1. NOT ALL ELECTRICAL INSIDE THE BUILDING IS SHOWN FOR CLARITY. CONTRACTOR RESPONSIBLE TO FIELD VERIFY EQUIPMENT TO BE REMOVED AND REPLACED.
 2. REFER TO SHEET P1.1 FOR ADDITIONAL DETAILS.
 3. THE EXISTING CIRCUITS FROM THE EXISTING LIGHTING PANEL FOR THE INTERIOR OF THE BUILDING FOR THE LIGHTS, RECEPTACLES, HEATER, AND OTHER ACCESSORIES SHALL REMAIN AS THEY ARE UNLESS SPECIFICALLY NOTED OTHERWISE.
 4. AFTER THE NEW SERVICE FEED IS CONNECTED IN THE BUILDING, THE OLD SERVICE SHALL BE COMPLETELY REMOVED.



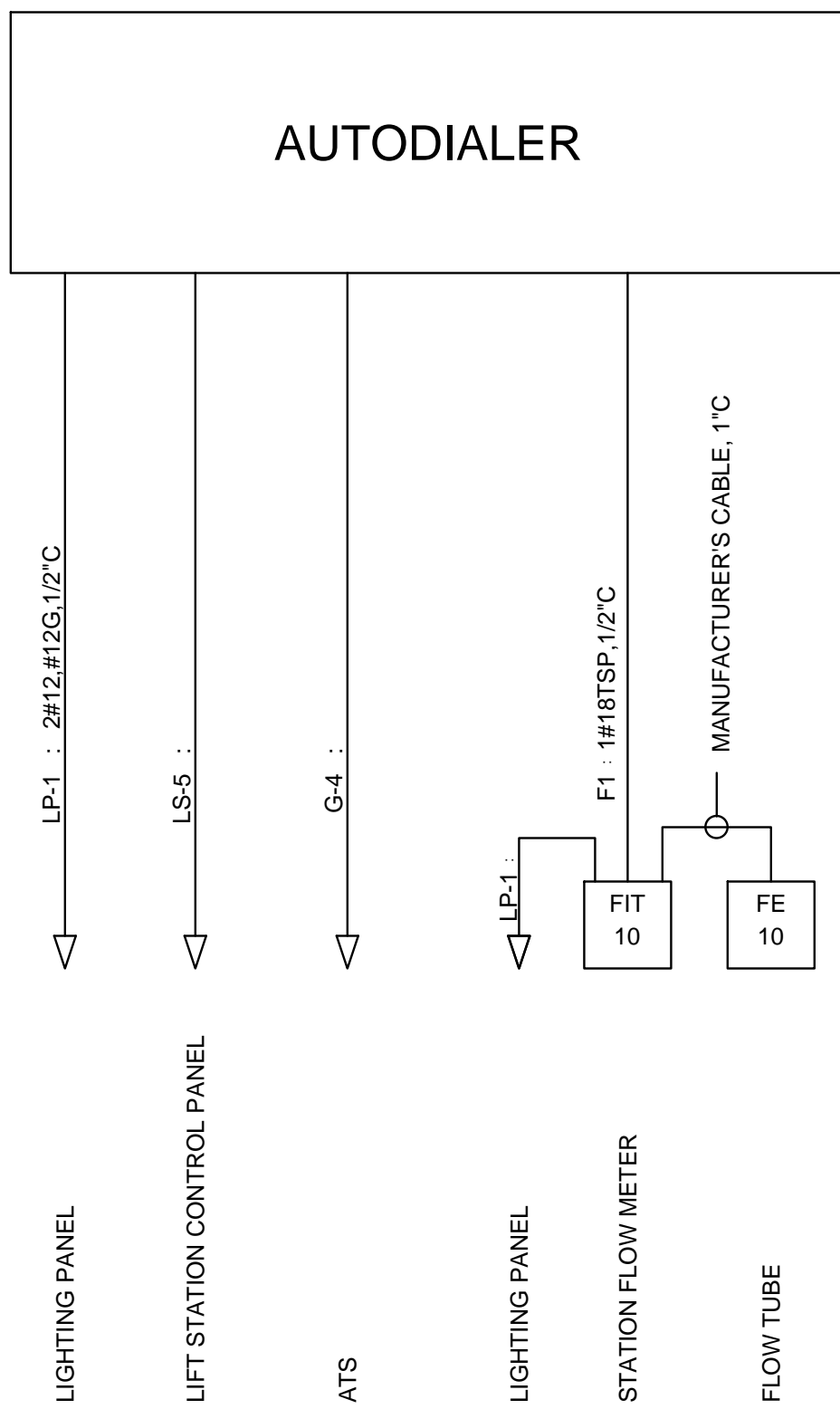
SERVICE ENTRANCE AND GENERATOR
ONE-LINE DIAGRAM



POWER PANEL, PP-1
ONE-LINE DIAGRAM



LIFT STATION CONTROL PANEL
ONE-LINE DIAGRAM



FLOW METER
ONE-LINE DIAGRAM

NOTES 1, 2, 3, 7											
NAME:		LP (EXISTING)		BUS:		COPPER		MAINS:		2P-80A	
SERVICE		120/240 VAC		RATING:		100A		LOCATION:		LIFT STATION CONTROL BUILDING	
MOUNTING		SURFACE, NEMA 1									
V. A.										V. A.	
A	B	LOAD	PHASE	BREAKER	CIRCUIT NUMBER	BREAKER	PHASE	LOAD	A	B	
20	900	FLOW METER / RECORDER	1	20	1	2	20	2	1500	1500	
0		RECEPTACLES & LIGHT	1	20	3	4	-	-			
		LIFT STATION	2	30	5	6	20	1	180	180	
	0	-	-	-	7	8				0	
750		GENERATOR-JACKET HEATER	2	20	9	10			0		
	750	-	-	-	11	12				0	
50		GENERATOR-BATTERY CHARGER	1	20	13	14			0		
	0				15	16				0	
820	1650	TOTALS PER PHASE PER SIDE								1680	1500
2500	3150	TOTALS PER PHASE									
	5650	PANEL TOTAL									

- NOTES:
- THE EXISTING LIGHTING PANEL SHALL BE REUSED AS IT IS.
 - THE EXISTING 2P-100A MAIN BREAKER SHALL BE REPLACED WITH A NEW 2P-80A BREAKER TO COMPLY WITH THE LIGHTING TRANSFORMER.
 - THE EXISTING LIGHTING PANEL IS A SIEMENS I-T-E LOAD CENTER CATALOG # G1624MB1100.
 - SEE SHEET P1.0 FOR THE WETWELL AND FLOW METER VAULT LOCATIONS AND THE SIZE OF THE FLOW METER.
 - THE NEW SERVICE SHALL BE CONNECTED AND OPERATIONAL PRIOR TO THE OLD SERVICE BEING DISCONNECTED. THE EXISTING SERVICE CONDUIT SHALL REMAIN IN PLACE AND THE FEEDERS SHALL BE REMOVED BACK TO THE PULL BOX ON THE OUTSIDE OF THE BUILDING.
 - THIS DEVICE IS PROVIDED BY THE PUMP SYSTEM SUPPLIER.
 - THE BREAKERS FOR THE GENERATOR JACKET HEATER AND BATTERY CHARGER ARE NEW AND SHALL BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT.