

CITY OF ELYRIA LORAIN COUNTY, OHIO OVERBROOK PUMP STATION II DESIGN

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MAINTENANCE OF TRAFFIC

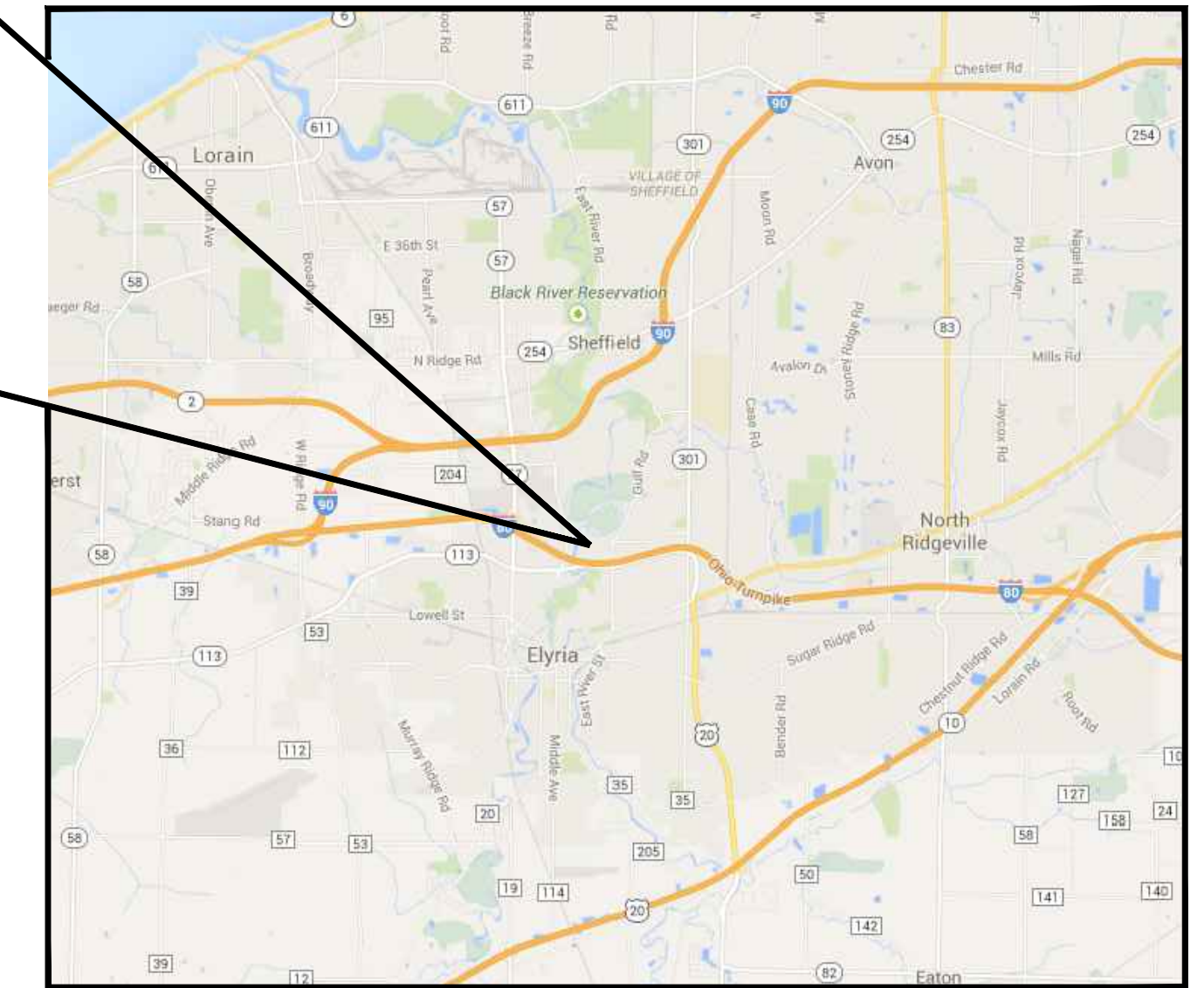
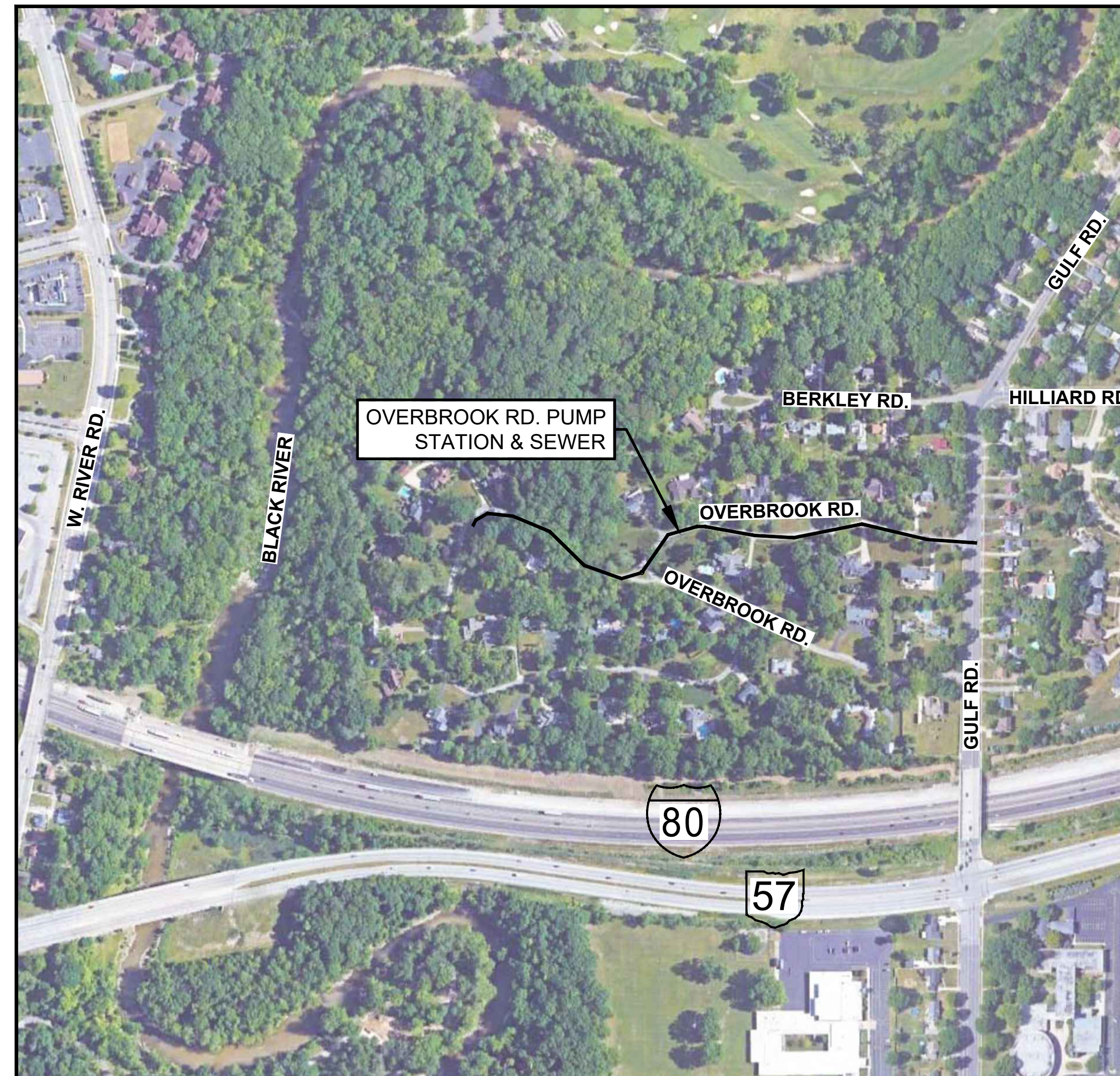
- MOT1 MAINTENANCE OF TRAFFIC PLAN OVERBROOK RD.
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STORM WATER POLLUTION PREVENTION PLAN

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UTILITY DETAILS

- UD1 TYPICAL TRENCH & WATERMAIN DETAILS
- UD2 TYPICAL MANHOLE DETAILS



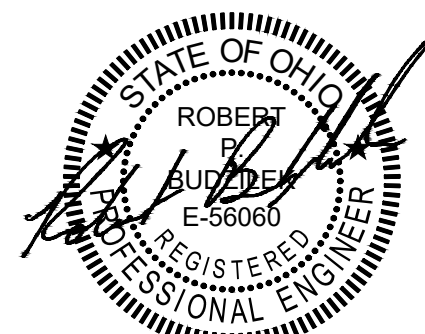
VICINITY MAP
NOT TO SCALE

PREPARED FOR:

CITY OF ELYRIA

KEVIN BRUBAKER, MAYOR
CHRIS PYANOWSKI, SAFETY-SERVICE DIRECTOR
KATHY McKILLIPS, P.E., CITY ENGINEER
SHAYNE STEWART, PLANT SUPERINTENDENT

SUBMITTED BY AECOM



BOB BUDZILEK, P.E.

08/15/2024

DATE

PREPARED BY:



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ACCEPTED BY THE CITY OF ELYRIA

K.A. Brubaker
KEVIN BRUBAKER
MAYOR

8-12-24
DATE

Chris Pyanowski
CHRIS PYANOWSKI
SAFETY-SERVICE DIRECTOR

8/12/24
DATE

Kathy McKillips
KATHY McKILLIPS, P.E.
CITY ENGINEER, ASST.

8-12-24
DATE

BID DOCUMENTS
08.15.2024



SANITARY SEWER CONSTRUCTION NOTES:

- 4" TO 10" SANITARY SHALL BE PVC PIPING AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ASTM F794, WITH JOINTS PER ASTM D3212 AND INSTALLED PER ASTM D2321 WITH A BEDDING CLASSIFICATION PER ASTM D2321.
- SANITARY SEWER PIPE CONSTRUCTION SHALL COMPLY WITH ODOT CMS SECTION 611, UNLESS OTHERWISE NOTED HEREIN.
- ALL SEWER LINES SHALL BE INSPECTED PER ODOT 611.12 TO VERIFY ACCURACY OF ALIGNMENT AND FREEDOM FROM DEBRIS AND OBSTRUCTIONS. THE METHOD OF INSPECTION SHALL BE VIDEO RECORDING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TWENTY-FOUR (24) HOURS IN ADVANCE OF VIDEO RECORDING. THE CONTRACTOR SHALL CLEAN THE SEWER WITHIN TWENTY-FOUR HOURS PRIOR TO RECORDING. VIDEO RECORDING SHALL BE PERFORMED BY A FIRM EXPERIENCED IN TELEVISIONING AND RECORDING INSTALLED SEWER PIPE. THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF ALL VIDEOS ON DVD OR CD COLOR VIDEO FORMAT AND TWO (2) COPIES OF A TYPEWRITTEN LOG OF THE CONTENTS OF THE VIDEOS. VIDEOS AND LOGS SHALL BE SUBMITTED TO THE OWNER
- ALL MANHOLES SHALL BE WATERTIGHT STRUCTURES, PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478. CONNECTIONS BETWEEN SEWER PIPE AND NEW MANHOLE SHALL BE A-LOK OR APPROVED EQUAL MEETING ASTM C-923. CONCRETE SHALL BE CLASS A, 4,000 PSI, 28 DAY COMPRESSIVE STRENGTH. REINFORCING STEEL AND RING WALL DIMENSIONS SHALL BE AS SHOWN IN STANDARD ODOT MANHOLE NO. 3 DRAWING. LIFT HOLES, IF PROVIDED, SHALL BE WATERTIGHT AND FILLED WITH A NON-SHRINK GROUT AFTER SET IN PLACE. JOINTS SHALL BE FORMED ENTIRELY OF CONCRETE EMPLOYING A ROUND RUBBER GASKET (O-RING) CONFORMING TO ASTM C-443. SHALL BE SELF-CENTERING AND MAKE A UNIFORM WATERTIGHT JOINT. JOINTS DAMAGED DURING INSTALLATION SHALL BE REPLACED WITH NEW RING WALLS AS NEEDED.
- THE CONTRACTOR SHALL PERFORM A MANHOLE VACUUM TEST FOLLOWING THE INSTALLATION OF THE MANHOLE BOTTOM, RING WALL(S) AND TOPS OR CHIMNEY SECTIONS. ALL MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF ASTM C-1244. THE MANHOLE SHALL BE TESTED AT 10" OF MERCURY FOR 60 SECONDS AND MAY HAVE LESS THAN 1" REDUCTION. IF THE MANHOLE DOES NOT PASS THE VACUUM TEST, IT SHALL BE REPAIRED AS NEEDED THEN TESTED UNTIL THE MANHOLE PASSES. ALL TESTING SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND UNDER THE DIRECT OBSERVATION OF THE CITY ENGINEER OR HIS REPRESENTATIVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF FLOW IN ANY SANITARY SEWER IMPACTED BY CONSTRUCTION ACTIVITIES. BY-PASS PUMPING WILL BE REQUIRED DURING DAILY OPERATIONS WHERE THE EXISTING SANITARY SEWER IS TO BE REMOVED AND REPLACED. AT THE END OF EACH WORK DAY, THE EXISTING AND NEW SEWER SHALL BE TEMPORARILY TIED BACK TOGETHER AS NECESSARY TO MAINTAIN FLOW WITHOUT THE USE OF PUMPS. IF PUMPS ARE TO BE USED TO MAINTAIN FLOW DURING NOW WORKING HOURS, THEN THE CONTRACTOR IS RESPONSIBLE TO PROVIDE FULL TIME OVER-SIGHT TO VERIFY THAT THE PUMPS ARE OPERATING AND FLOW IS BEING MAINTAINED.

ESTIMATED BY PASS PUMPING FLOW RATES FOR EXISTING LOCAL SEWERS (FROM METERING & MODELING):

	<u>DRY WEATHER</u>	<u>WET WEATHER (10YR - 2 HR)</u>
OVERBROOK EAST	XXX GPM	XXX GPM
OVERBROOK NORTHEAST	XXX GPM	XXX GPM
PUMP STATION DISCHARGE SEWER	XXX GPM	XXX GPM

FLEXIBLE COUPLINGS:

- PROVIDE FLEXIBLE COUPLING THAT CONFORMS TO ASTM C1173 AND ASTM D5926 TO COUPLE NEW GRAVITY SEWER PIPE TO EXISTING GRAVITY SEWER PIPE. TIGHTENING BANDS SHALL BE SERIES 316 STAINLESS STEEL WITH STAINLESS STEEL NUT AND BOLTS. TIGHTENING CLAMPS 4-INCH DIAMETER TO 15-INCH DIAMETER COUPLING SHALL BE PROVIDED WITH A SERIES 300 STAINLESS STEEL SHEAR RING HAVING A MINIMUM THICKNESS OF 0.012 INCH.
- APPROPRIATE COUPLINGS SHALL BE PROVIDED AT ALL JOINTS BETWEEN NEW AND EXISTING PIPES, UNLESS OTHERWISE SHOWN ON THE PLAN, AND SHALL CREATE A WATERTIGHT JOINT BETWEEN THE NEW AND EXISTING PIPES.

MAILBOXES:

- ANY MAILBOX REMOVED OR DISTURBED WITH CONSTRUCTION SHALL BE RESET IN A CONCRETE BASE AT ITS ORIGINAL LOCATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT'S BID PRICE FOR VARIOUS SEWER RELATED ITEMS. NO SEPARATE COMPENSATION WILL BE PAID BY THE CITY TO THE CONTRACTOR.

PERMITS:

- ALL RIGHT OF WAY OCCUPANCY PERMITS SHALL BE SECURED BY THE CONTRACTOR.

DISPOSAL OF REMOVED MATERIALS:

- ALL PAVEMENT, CURBING, AND/OR SIDEWALK REMOVED BY THE CONTRACTOR AS PART OF THE WORK SHALL BE DISPOSED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THE CONTRACTOR MAY DISPOSE THE ASPHALT GRINDINGS AT THE CITY OF ELYRIA CENTRAL MAINTENANCE GARAGE, LOCATED AT 851 GARDEN STREET.
- ALL EXCAVATED MATERIAL REMOVED BY THE CONTRACTOR FROM UNDER THE ROADWAY FOR THE CONSTRUCTION OF THE SEWER OR MAIN SHALL BE DISPOSED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

SHEETING / SHORING REQUIREMENTS:

- THE CONTRACTOR SHALL HAVE A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, DESIGN THE SHEETING SHORING FOR THE TRENCH AT DEPTHS GREATER THAN 20 FEET.

SNOW REMOVAL:

- FROM NOVEMBER 1 TO APRIL 1, CONTRACTOR SHALL NOTIFY ENGINEER OF ALL CONSTRUCTION PLATES PLACED IN CITY ROADWAYS. THE CITY WILL BE PERFORMING SNOW REMOVAL ON CITY ROADS. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SNOW FROM ROADS THAT ARE CLOSED OR LIMITED TO LOCAL ACCESS ONLY DUE TO CONSTRUCTION. IF A ROAD IS OPENED TO FULL TRAFFIC PRIOR TO COMPLETE RESTORATION, CONTRACTOR SHALL TAKE RESTORATION MEASURES NECESSARY TO FACILITATE PLOWING BY THE CITY. SUCH MEASURE SHALL BE APPROVED BY THE CITY PRIOR TO OPENING THE ROAD TO FULL TRAFFIC. CITY SNOW PLOWING OPERATIONS PILE SNOW ALONG THE STREET CURB. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SNOW OUTSIDE OF THE WORK ZONE TO ACCESS MATERIALS COVERED BY THE CITY'S SNOW REMOVAL OPERATIONS.

UTILITY POLE RELOCATION:

- THE UTILITY ALLOWANCE BID ITEM SHALL BE USED FOR COSTS CHARGED TO THE PROJECT BY FIRST ENERGY AND OTHER UTILITY PROVIDERS TO RELOCATE THE EXISTING POWER POLE AT THE SE CORNER OF THE INTERSECTION OF DILWORTH ST. AND GULF RD. AND THE EXISTING LIGHT POLE ON DILWORTH ST. AS NOTED ON THE SEWER PLAN AND PROFILE DRAWINGS. ANY OTHER POLES TO BE TEMPORARILY RELOCATED SHALL BE DONE AT THE CONTRACTORS EXPENSE AS PART OF THE BID ITEM OF THE UTILITY WORK NECESSITATING THE POLE RELOCATION.

OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTES:

- A MINIMUM 18 INCH VERTICAL CLEARANCE AND 10 FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWERS AND A MINIMUM 12 INCH VERTICAL CLEARANCE AND 4 FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN MAINS AND STORM SEWERS. WHERE 10 FOOT HORIZONTAL CLEARANCE IS NOT FEASIBLE, A 10 FOOT RADIAL CLEARANCE SHALL BE PROVIDED.

CONSTRUCTION STAKING

- AFTER PROJECT AWARD, THE CONTRACTOR SHALL BE PROVIDED THE SURVEY AND SEWER DESIGN CAD FILES FOR CONSTRUCTION STAKING AND LAYOUT. THE CONTRACTOR'S SURVEYOR WILL NEED TO USE THESE FILES TO LAYOUT THE ALIGNMENT OF THE SEWERS INCLUDING STAKING MH / STRUCTURE LOCATIONS.



PROJECT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE
131 COURT STREET
ELYRIA, OH

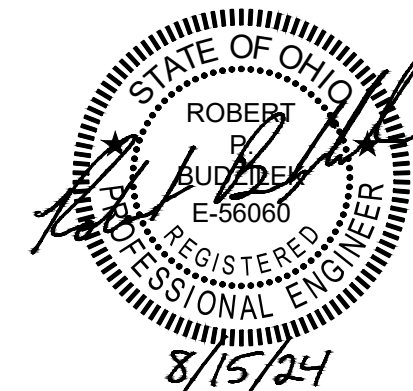
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REGISTRATION



ISSUE/REVISION

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1	08/15/2024	BID DOCUMENTS

PROJECT NUMBER

60332065

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

G3

EXISTING STORM AND SANITARY TABLE

SSMH 20076 RIM=704.74 INV=681.74 SAN BOTTOM OF DROP INV=692.71 8" PVC W	SSMH 20547 RIM=704.56 INV=699.39 4" VCP NW INV=694.46 8" PVC NW
STM 20091 RIM=704.80 INV=700.16 15" VCP NW INV=700.10 12" RCP SE (RECESSED) INV=700.49 12" RCP SW	CBS 20614 RIM=703.35 INV=701.99 4" PVC N INV=701.45 6" PVC S INV=701.43 6" PVC NW BOTTOM=701.35
STM 20093 RIM=704.44 INV=697.08 15" RCP NW INV=701.39 6" VCP S INV=697.74 15" VCP SE INV=683.34 84" BR N & S	SSMH 20954 RIM=703.57 INV=695.52 8" PVC NE INV=695.51 8" PVC NW
STM 20101 RIM=704.94 COULD NOT OPEN	SSMH 21194 RIM=702.58 INV=696.57 8" PVC SE INV=696.37 4" PVC SW
CBS 20162 RIM=703.49 INV=699.64 6" CPP W INV=699.19 12" RCP N BOTTOM=699.19	SSMH 21195 RIM=702.95 INV=690.93 8" PVC SE INV=690.92 8" PVC SW
CBS 20241 RIM=703.69 INV=698.04 15" RCP SE (RECESSED) INV=698.29 12" RCP S	SSMH 21234 RIM=703.70 INV=692.10 8" PVC NE INV=691.97 8" PVC NW
SSMH 20384 RIM=704.88 INV=693.45 8" PVC E INV=693.50 8" PVC NW	SSMH 21452 RIM=698.49 INV=690.17 8" PVC NE INV=690.03 8" PVC SW
SSMH 20486 RIM=704.40 INV=693.86 8" PVC SE INV=693.84 8" PVC SW	CB 21807 RIM=683.43 INV=680.93 6" VCP SW BOTTOM=680.73
SSMH 20487 RIM=704.50 INV=694.08 8" PVC SE INV=694.18 8" PVC SW	SSMH 21989 RIM=682.81 INV=678.12 8" PVC NE INV=678.12 8" PVC SE INV=678.11 8" PVC NW



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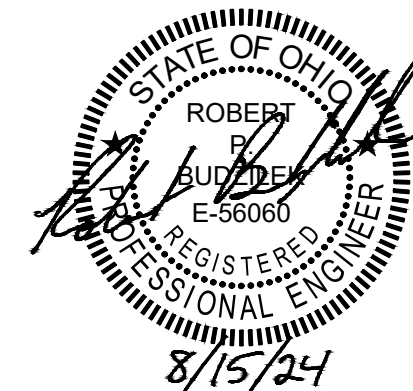
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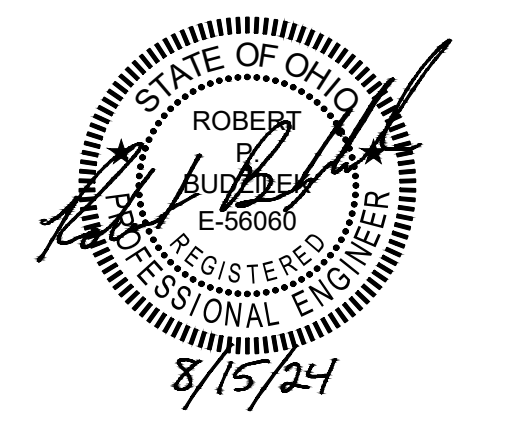
60332065

SHEET TITLE

EXISTING STORM & SANITARY TABLES

SHEET NUMBER

G4



ISSUE/REVISION

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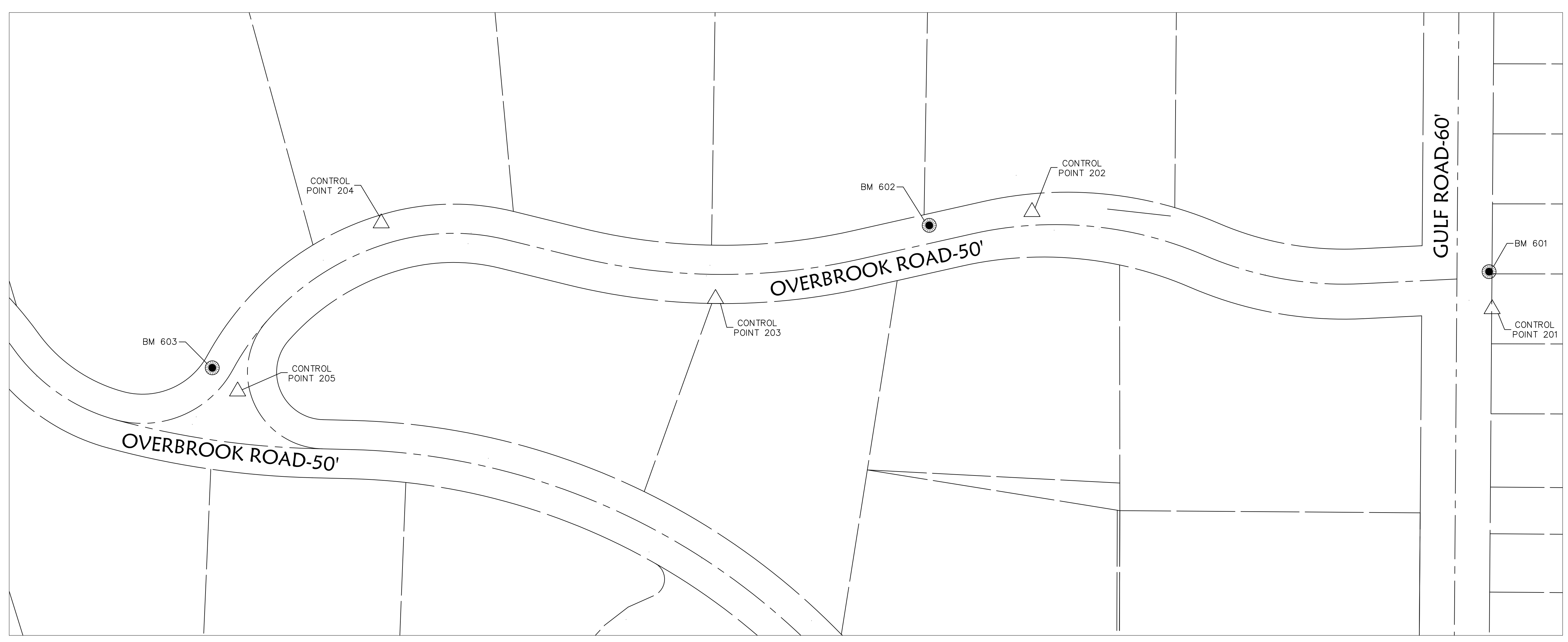
60332065

SHEET TITLE

HORIZONTAL AND VERTICAL SURVEY CONTROL

SHEET NUMBER

C1



SURVEYOR'S NOTES

- HORIZONTAL DATUM IS OHIO STATE PLANE, NORTH ZONE NAD83(2011) GRID NORTH BASED ON GPS OBSERVATIONS PERFORMED ON 01-04-23.
- VERTICAL DATUM IS NAVD 1988.
- PERTINENT RECORDS USED ARE AS SHOWN HEREON.
- THIS MAP AND THE SURVEY ON WHICH IT IS BASED HAVE BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE NOT INTENDED TO REFLECT ALL EASEMENTS, ENCUMBRANCES, OR OTHER CIRCUMSTANCES AFFECTING THE TITLE TO THE PROPERTY SHOWN HEREON.
- THE UTILITIES, SEWERS AND THEIR LOCATIONS SHOWN HEREON ARE DERIVED FROM A COMBINATION OF FIELD SURVEYING OF VISIBLE UTILITY STRUCTURES, AVAILABLE PLANS AND A LEVEL C SUBSURFACE UTILITY INVESTIGATION. ACTUAL LOCATION OF UTILITIES MAY VARY FROM THE DEPICTED LOCATIONS. OTHER UNKNOWN UTILITIES MAY EXIST AND NECESSARY PRECAUTIONS SHOULD BE FOLLOWED WHEN EXCAVATING. ADDITIONAL INVESTIGATION SUCH AS VIDEOTAPING PIPE RUNS, NON-DESTRUCTIVE EXPOSURE OF UTILITIES MAY DETERMINE THE UNKNOWN UTILITY INFORMATION. CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 PRIOR TO EXCAVATION.
- AS OF (JANUARY 23, 2023), THE FOLLOWING COMPANIES HAVE RESPONDED TO THE INITIAL OUPS REQUEST: A300302298, A300900391 FOR UTILITY PLANS: CITY OF ELYRIA ENGINEERING, COLUMBUS GAS OF OHIO, CHARTER COMMUNICATIONS, WINDSTREAM.

UTILITY REFERENCES

- FIELD LOCATED BY KS ASSOCIATES FROM UTILITY MARKINGS.
- COLUMBIA GAS OF OHIO PLANS.
- CITY OF ELYRIA ENGINEERING PLANS.
- FIRST ENERGY PLANS.

BENCH MARKS

- BM 601:**
 BENCH TIE SPIKE SET WEST FACE OF TELEPHONE POWER POLE #7044-003 LOCATED ON EAST SIDE OF GULF ROAD BETWEEN 941 AND 943 GULF ROAD.
 ELEV=705.75
- BM 602:**
 MAG NAIL SET ON SOUTHWEST CORNER OF CONCRETE BASE FOR LIGHTPOLE ON NORTH SIDE OF OVERBROOK ROAD BETWEEN 656 AND 688 OVERBROOK ROAD.
 ELEV=703.43
- BM 603:**
 MAG NAIL SET ON SOUTHEAST CORNER OF 2'X2' CONCRETE BASE FOR LIGHTPOLE ON NORTH SIDE OF OVERBROOK ROAD AT 578 OVERBROOK ROAD.
 ELEV=689.38

CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
200	627301.21	2079854.12	701.23	CNPT IPINS
201	626775.03	2079848.55	705.14	CNPT MAGS
202	626858.31	2079454.37	704.55	CNPT IPINS
203	626783.80	2079183.22	704.46	CNPT IPINS
204	626848.57	2078896.86	701.56	CNPT IPINS
205	626704.51	2078773.85	687.78	CNPT IPINS

ABBREVIATIONS

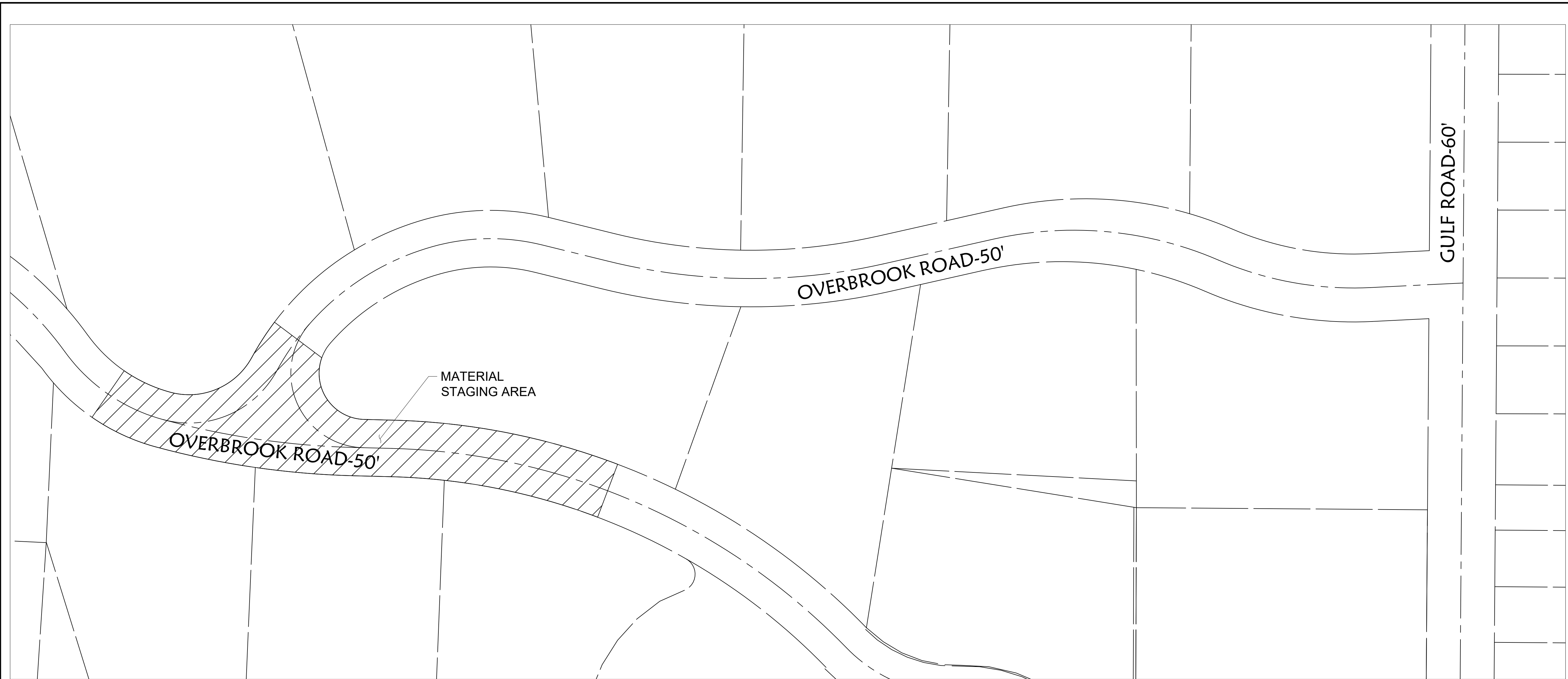
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|-------|--------------------------|
| ALUM | ALUMINUM |
| ASPH | ASPHALT |
| BM | BENCH MARK |
| BR | BRICK |
| CB | CATCH BASIN ROUND |
| CBS | CATCH BASIN SQUARE |
| C.L.F | CHAIN LINK FENCE |
| CMP | CORRUGATED METAL PIPE |
| CONC | CONCRETE |
| ELEC | ELECTRIC |
| FEN | FENCE |
| MULTI | MULTIPLE |
| PVC | POLYVINYL CHLORIDE |
| PP | POWER POLE |
| RCP | REINFORCED CONCRETE PIPE |
| SAN | SANITARY PIPELINE |
| STL | STEEL |
| SSMH | SANITARY MANHOLE |
| STMH | STORM MANHOLE |
| TELE | TELEPHONE |
| TPP | TELEPHONE POWER POLE |
| VCP | VITRIFIED CLAY PIPE |
| W.M | WATER MAIN |

LEGEND

- | | | | | | |
|---|--------------------|---|----------------------|---|----------------|
| ⊗ | CATCH BASIN ROUND | ⊕ | WATER VALVE | 🌳 | TREE |
| ⊠ | CATCH BASIN SQUARE | ⚡ | FIRE HYDRANT | 🌿 | EVERGREEN TREE |
| ⊙ | SANITARY MANHOLE | △ | KS CONTROL POINT | 🪵 | STUMP |
| ⊚ | STORM MANHOLE | ● | BENCH MARK | 🌱 | BUSH/SAPLING |
| ⊕ | CLEANOUT | ⊙ | IRON PIN/PIPE | ⊠ | ROCK |
| ⊖ | DRAIN/SPOUT | ⊠ | MONUMENT BOX | + | SIGN |
| ⊚ | TELEPHONE MANHOLE | ⊕ | POWER POLE | 📧 | MAILBOX |
| ⊚ | TELEPHONE BOX | ⊕ | LIGHT POLE | 📰 | NEWSPAPER BOX |
| ⊚ | ELECTRIC PULL BOX | ⊕ | TELEPHONE POWER POLE | | |
| ⊕ | ELECTRIC HAND HOLE | | | | |

LINETYPE LEGEND

- | | |
|-------------|-----------------------------|
| --- | CENTERLINE |
| --- | PROPERTY LINE |
| --- | RIGHT OF WAY |
| ---ST--- | SANITARY SEWER |
| ---FM--- | FORCE MAIN |
| ---ST--- | STORM SEWER |
| ---G--- | GAS LINE |
| ---W--- | WATER LINE |
| ---T--- | UNDERGROUND TELEPHONE |
| ---X--- | FENCE LINE |
| ~~~~~ | TREELINE/HEDGELINE |
| ---OHE--- | OVERHEAD ELECTRIC |
| ---OHE/T--- | OVERHEAD ELECTRIC/TELEPHONE |
| ---600--- | MAJOR CONTOUR |
| ---601--- | MINOR CONTOUR |



MATERIAL STAGING AREA



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REGISTRATION



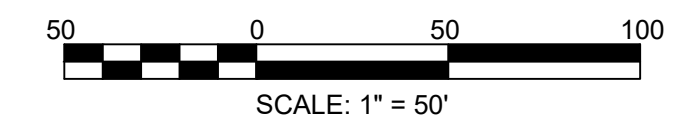
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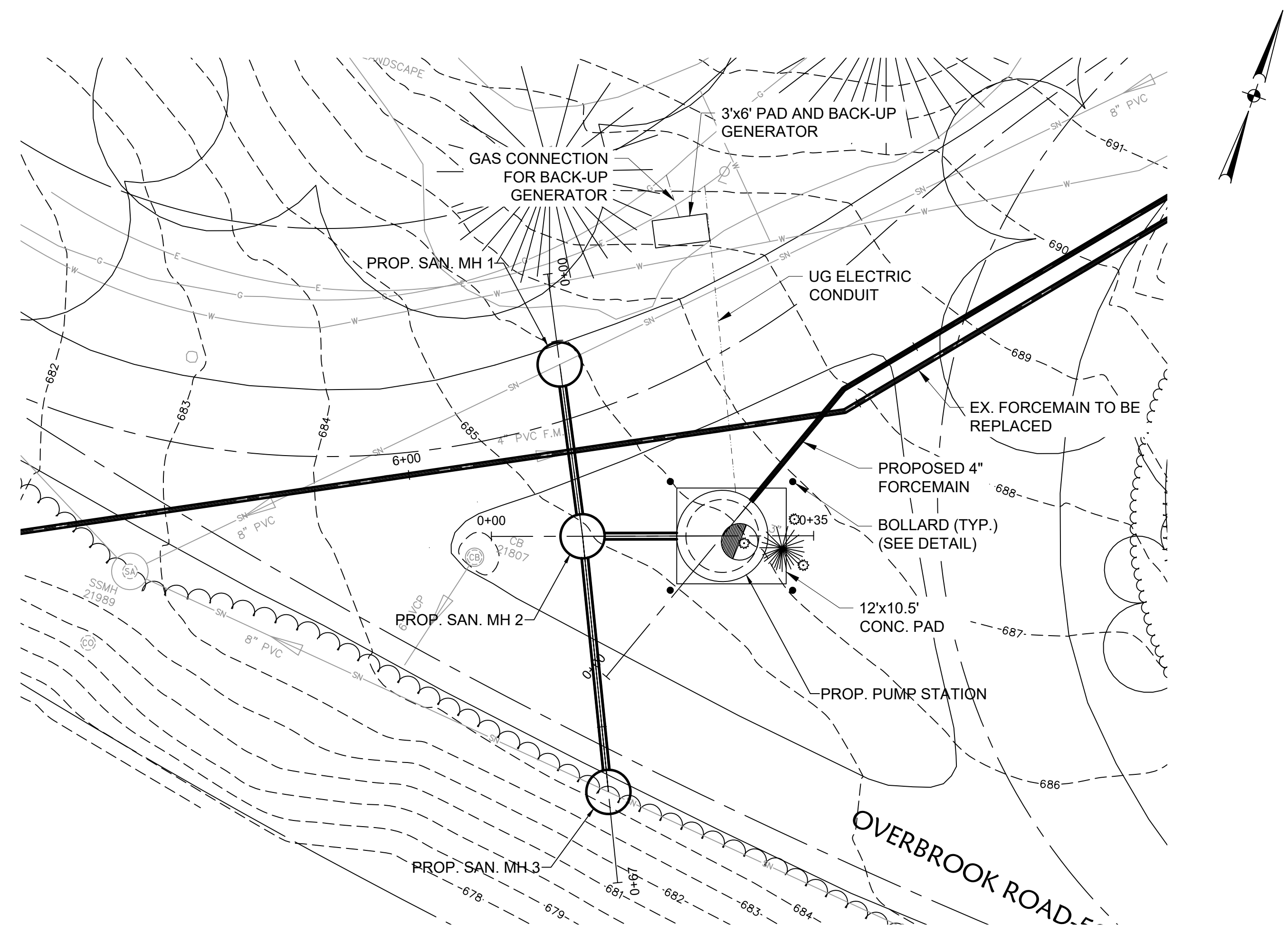
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PROJECT NUMBER
 60332065

SHEET TITLE
 MATERIAL STAGING AREA

SHEET NUMBER
 C2





NOTES:

- COORDINATES ARE GIVEN FOR THE CENTER OF THE STRUCTURE.
- COMPACTED GRANULAR LIMESTONE BACKFILL PER ODOT CMS ITEM 304 AND TRENCH UNDER PAVEMENT DETAIL ON SHEET UD1.
- NOTE THAT THE PROFILE SHOWS ONLY THOSE UNDERGROUND UTILITIES IMMEDIATE TO THE PROPOSED SEWER. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITIES AND SERVICES PRIOR TO CONSTRUCTION WHETHER SHOWN IN PROFILE OR NOT. UTILITIES OR SERVICES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND. COST TO BE INCLUDED IN THE LINEAR FOOT PRICE FOR SEWER INSTALLATION.



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REGISTRATION



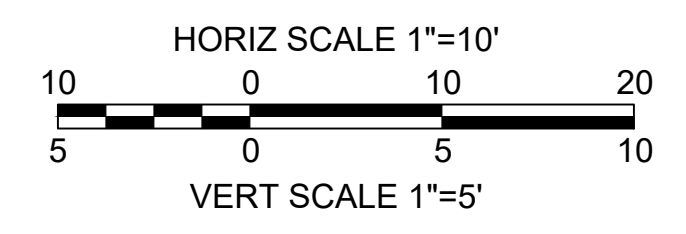
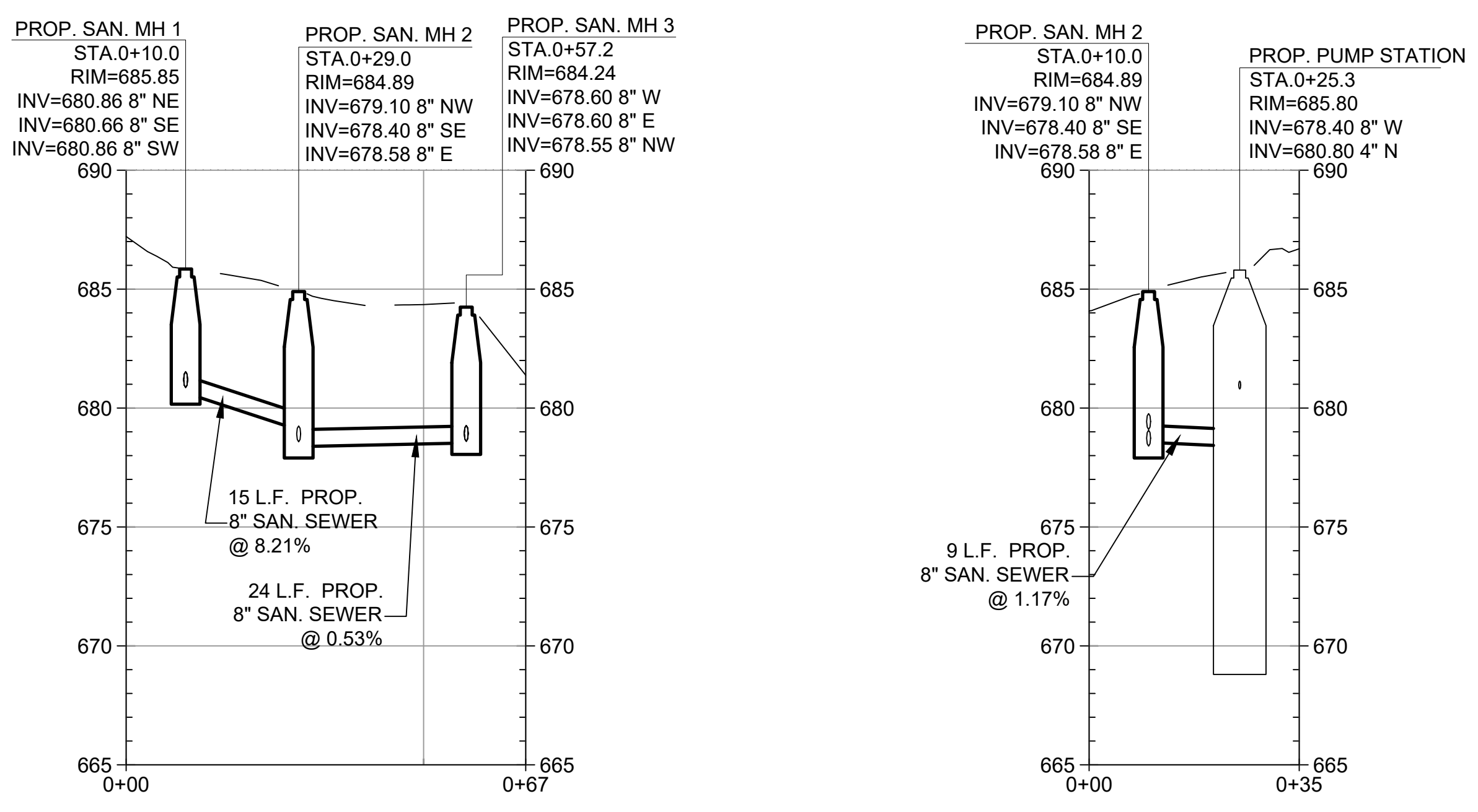
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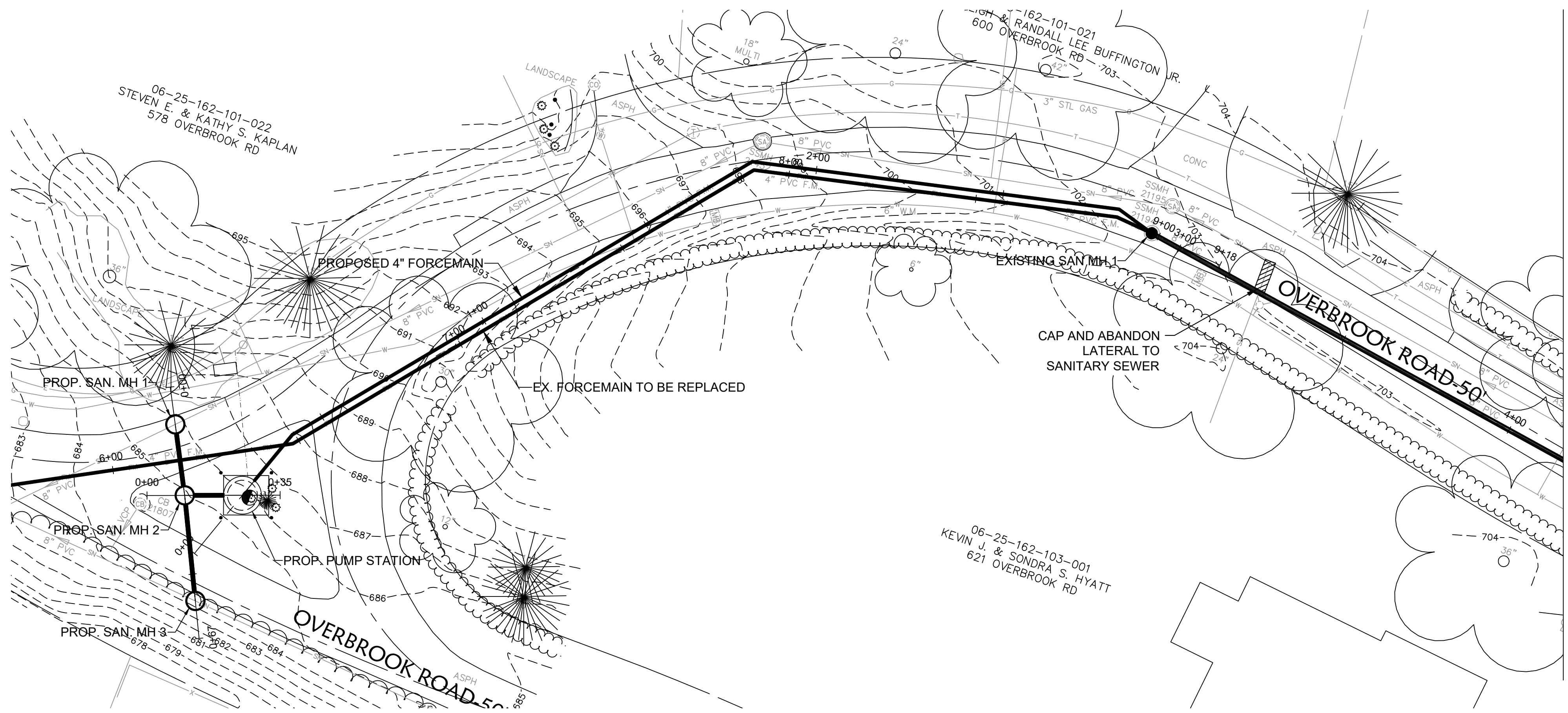
I/R	DATE	DESCRIPTION
1	08/15/2024	BID DOCUMENTS

PROJECT NUMBER
 60332065

SHEET TITLE
 PROP. FORCEMAIN CONNECTIONS
 PLAN AND PROFILES

SHEET NUMBER
 C3





MATCH LINE STA. 128+00 SEE SHEET C5

NOTES:

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PROJECT
OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT
 1194 GULF ROAD
 ELYRIA, OH

CLIENT
CITY OF ELYRIA
 DEPARTMENT OF PUBLIC SERVICE
 131 COURT STREET
 ELYRIA, OH

CONSULTANT
 AECOM
 1300 EAST 9TH STREET, SUITE 500
 CLEVELAND, OH 44114
 216.622.2300 tel 216.622.2301 fax
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CONSULTANTS
 SURVEY
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REGISTRATION



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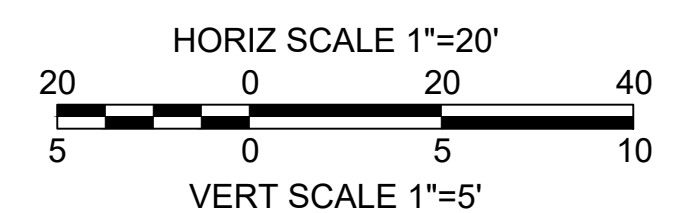
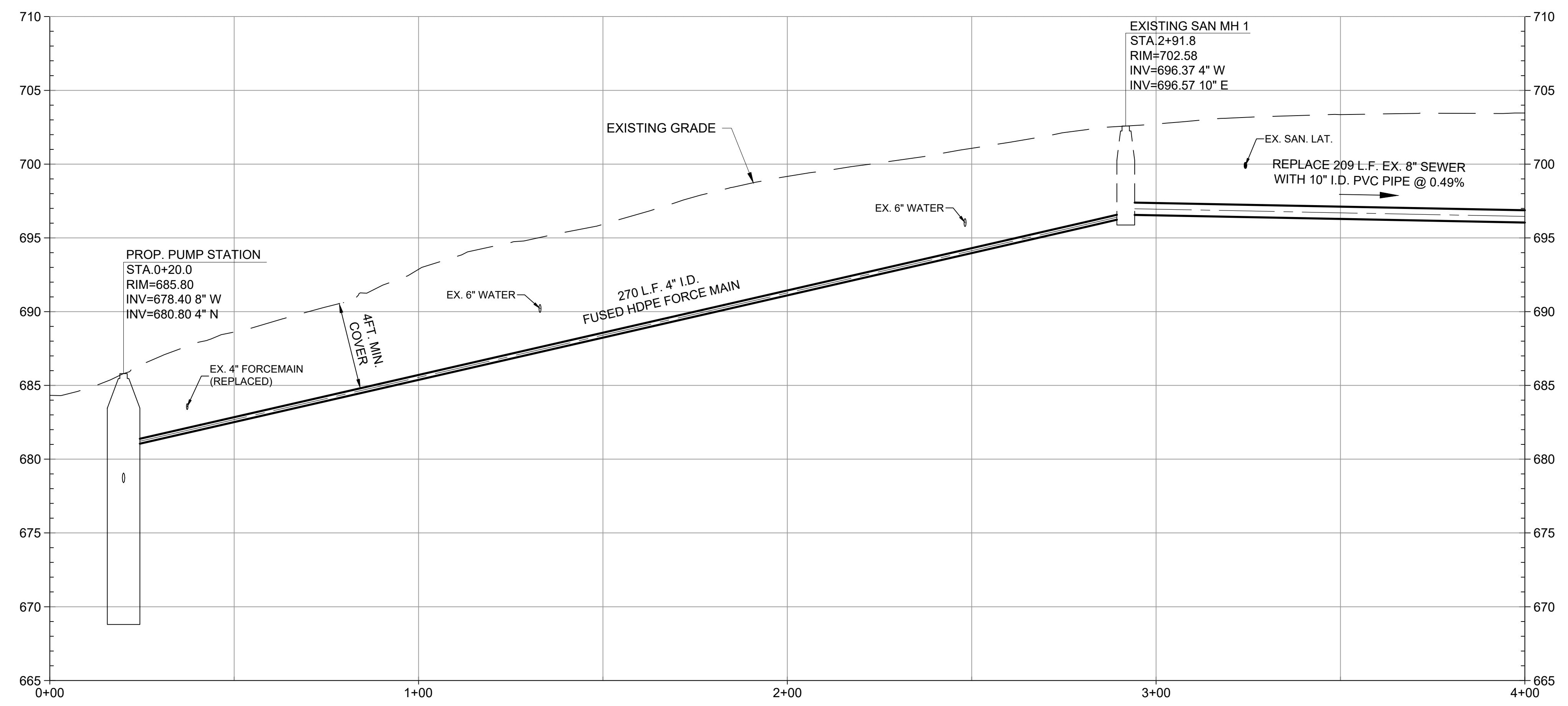
60332065

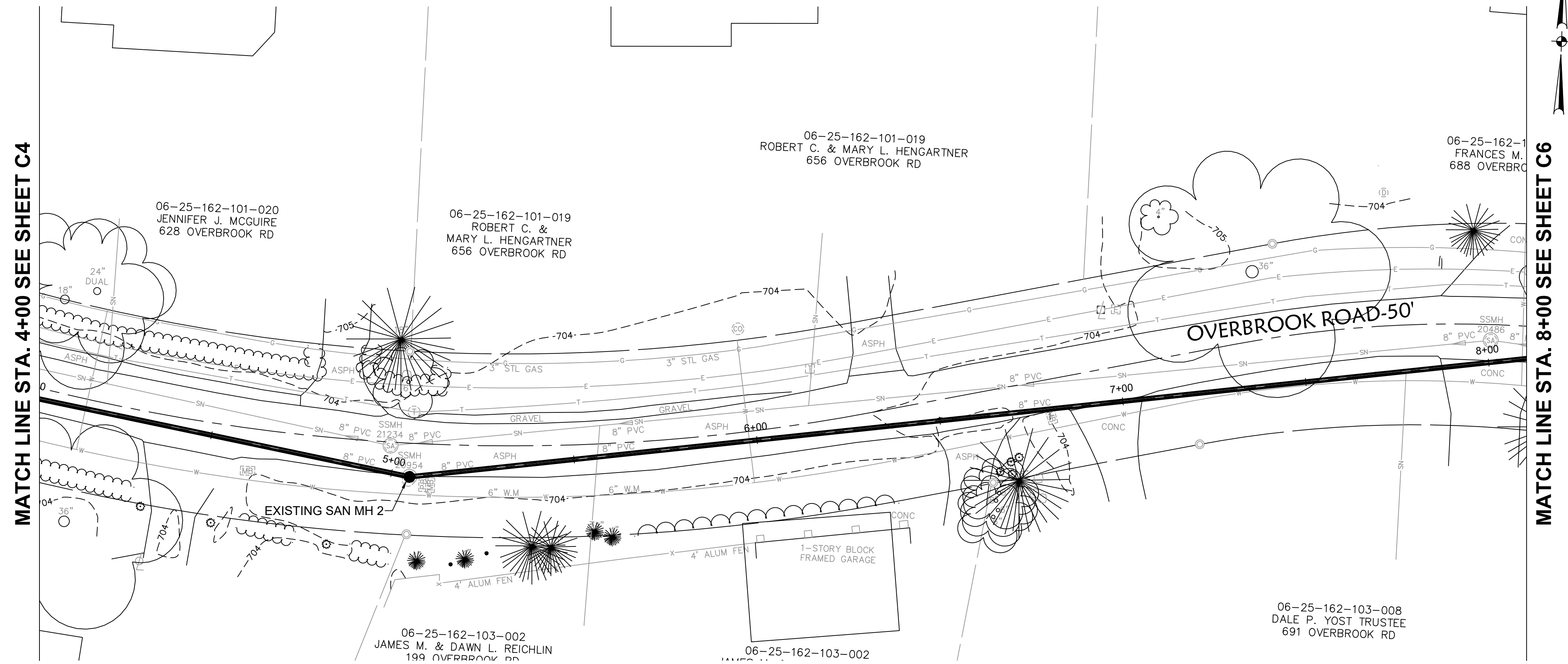
SHEET TITLE

PROPOSED FORCEMAIN
 PLAN AND PROFILE
 STA 0+00 TO STA 4+00

SHEET NUMBER

C4



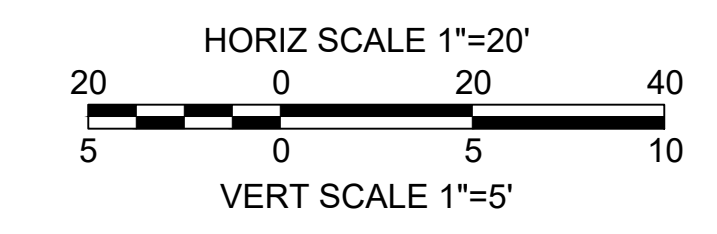
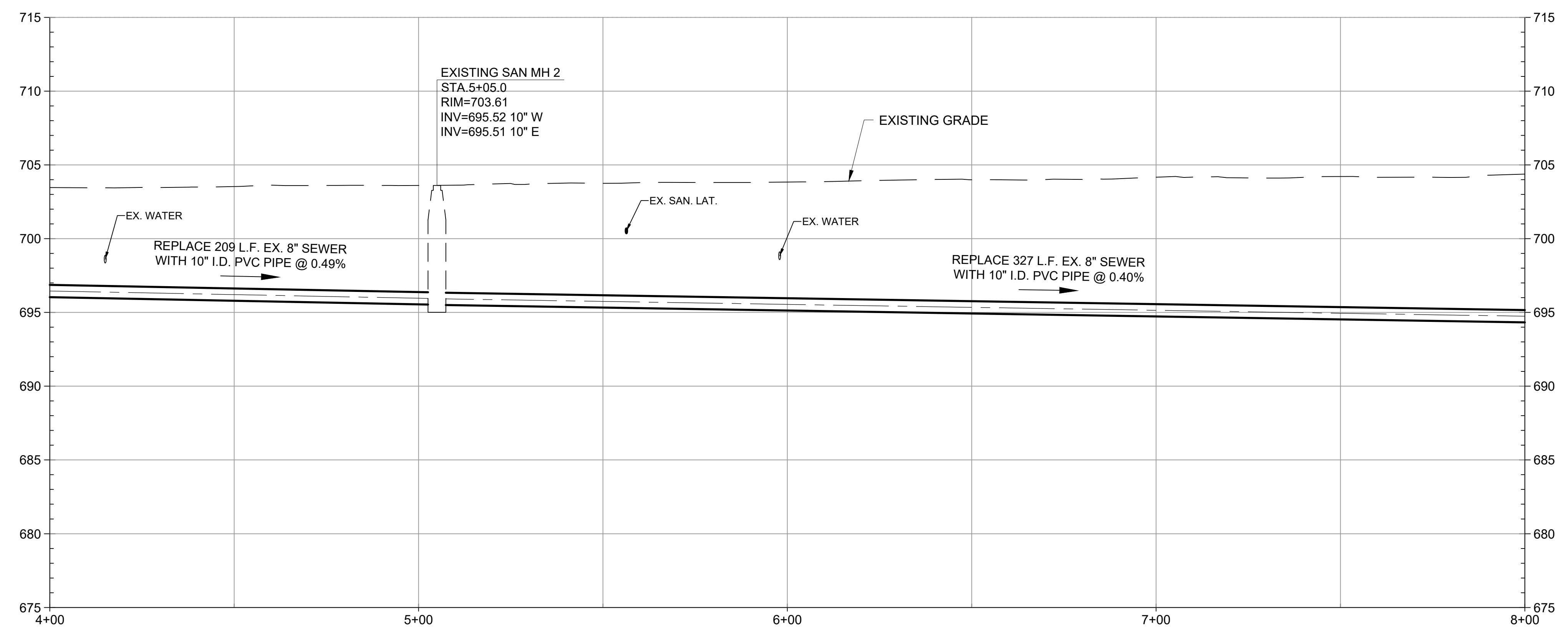


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MATCH LINE STA. 8+00 SEE SHEET C6

MATCH LINE STA. 4+00 SEE SHEET C4



PROJECT
OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT
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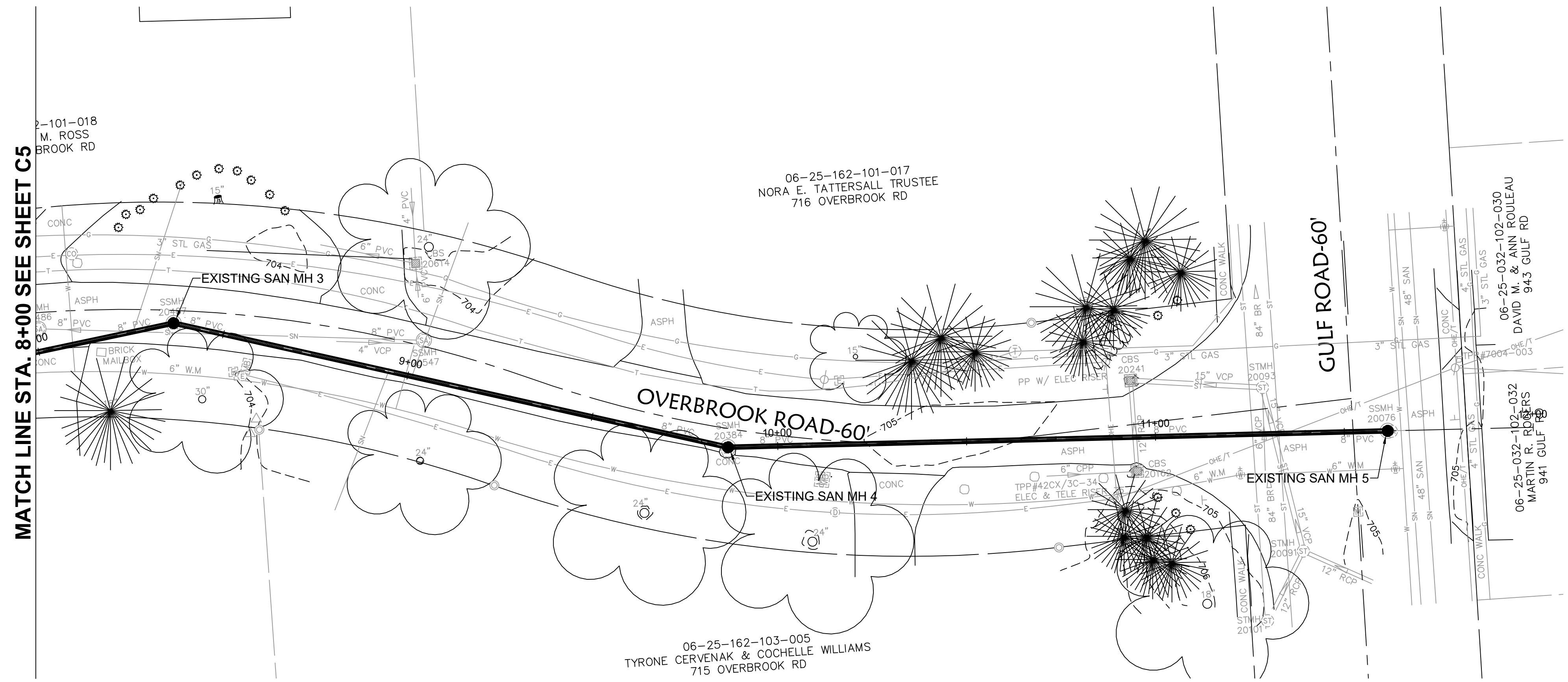
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SHEET TITLE

PROPOSED FORCEMAIN
 PLAN AND PROFILE
 STA 4+00 TO STA 8+00

SHEET NUMBER

C5



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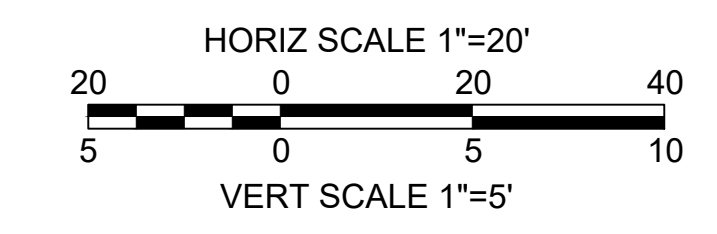
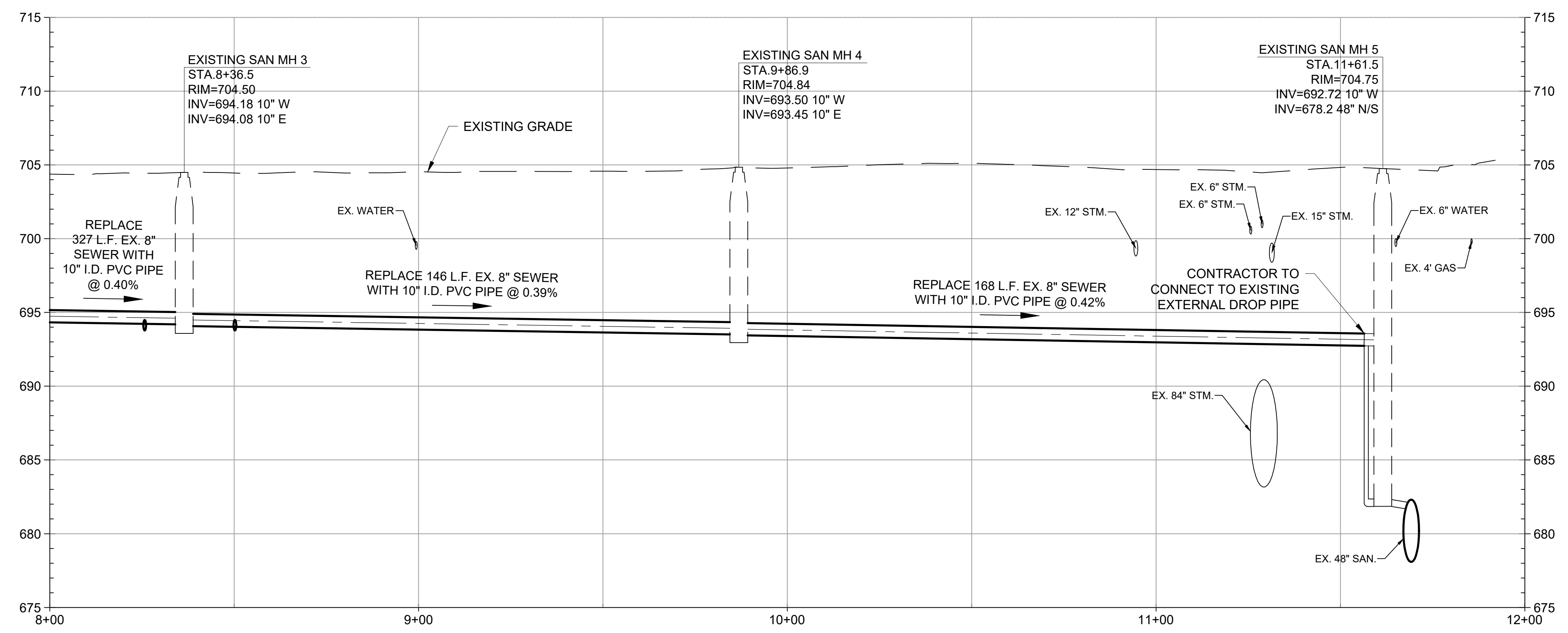
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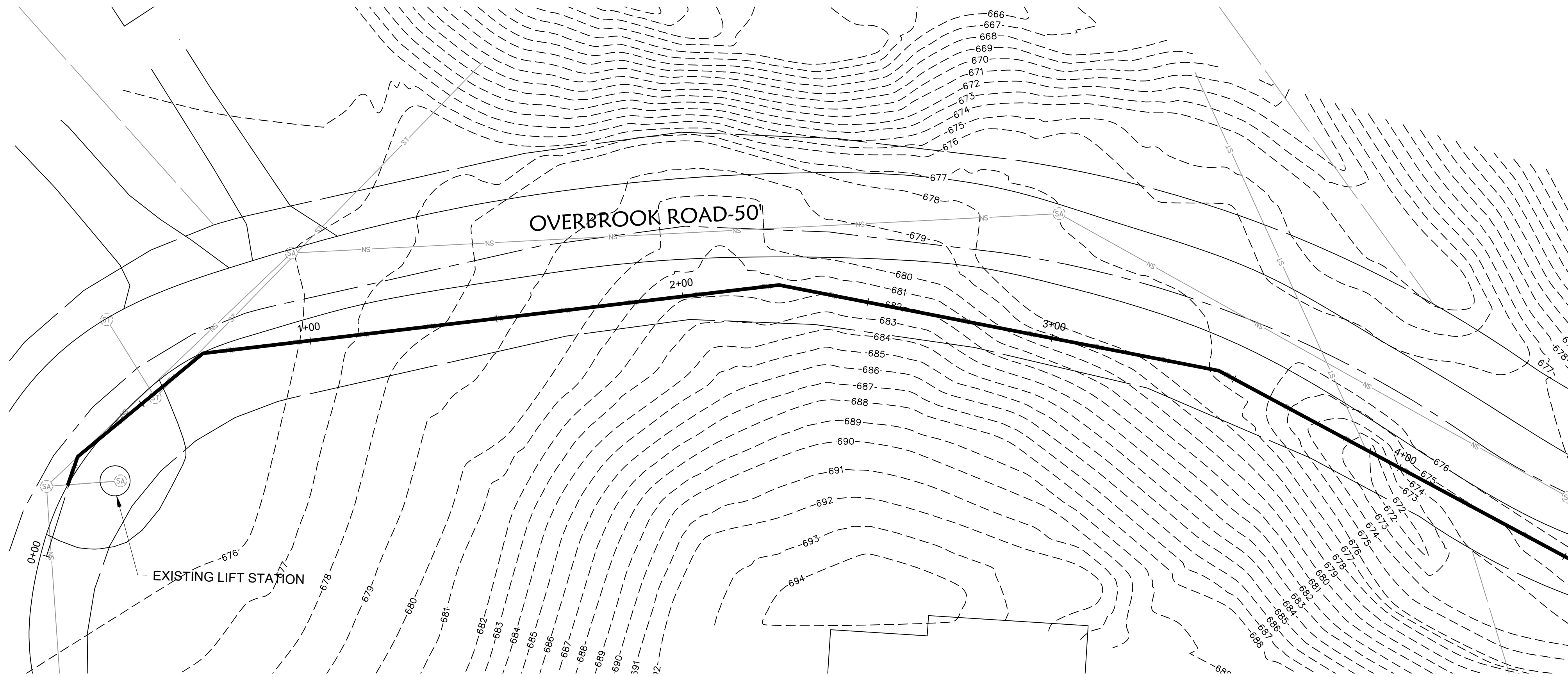
SHEET TITLE

PROPOSED FORCEMAIN
 PLAN AND PROFILE
 STA 8+00 TO STA 11+75

SHEET NUMBER

C6





MATCH LINE STA. 4+50 SEE SHEET C8

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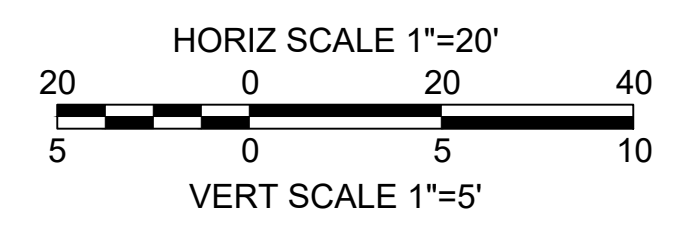
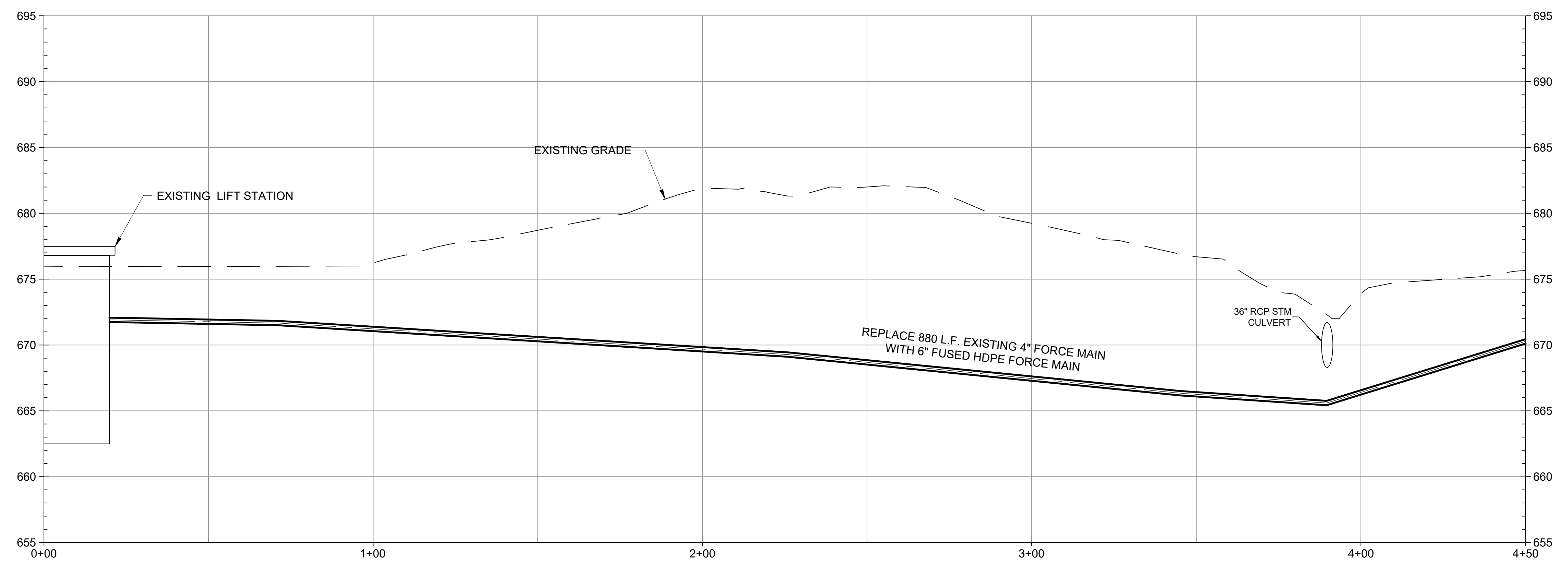
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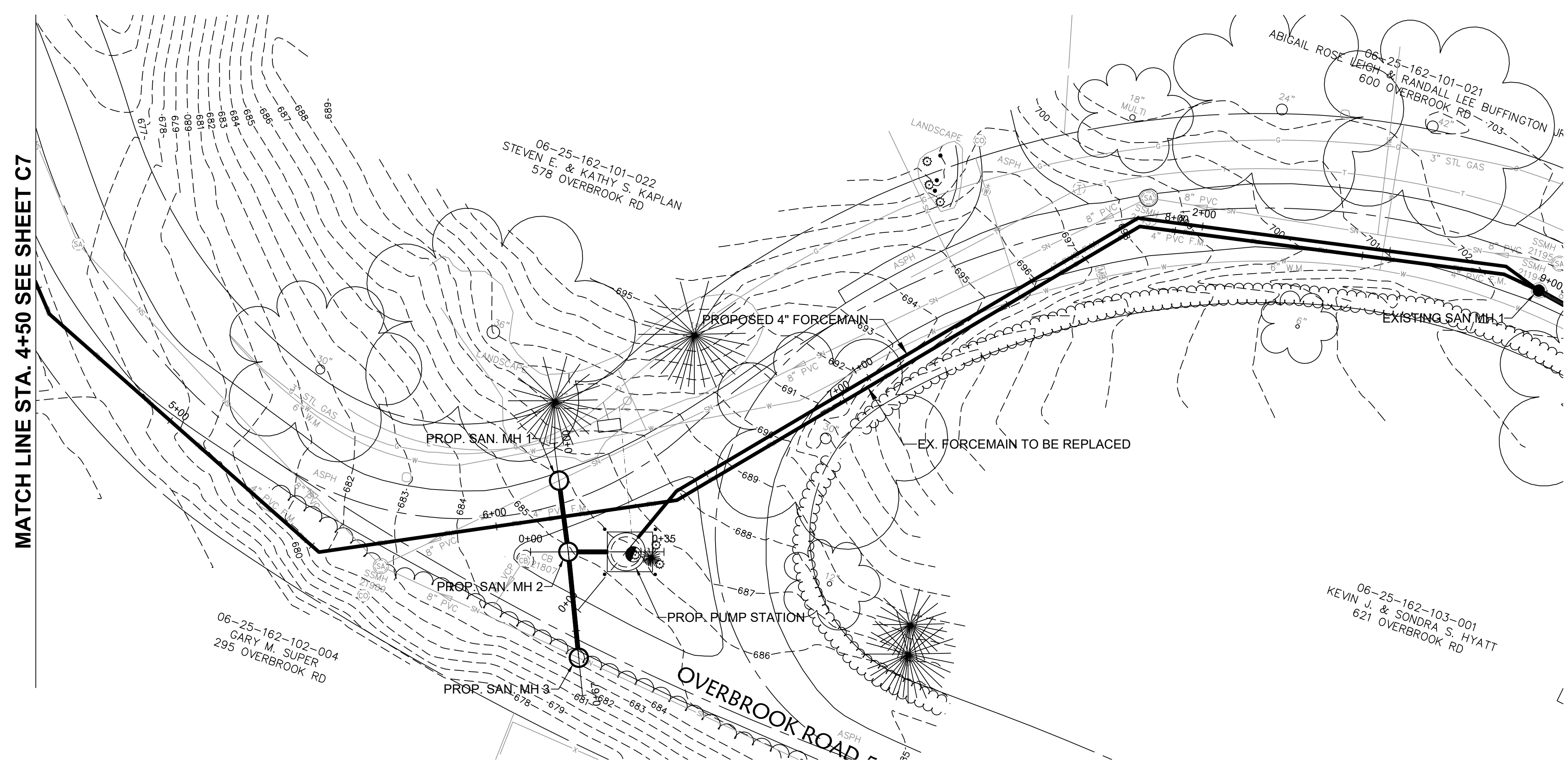
EXISTING FORCEMAIN
 PLAN AND PROFILE
 STA 0+00 TO STA 4+50

SHEET NUMBER

C7

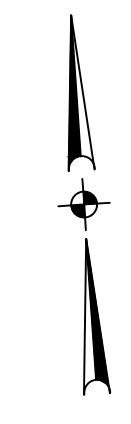


MATCH LINE STA. 4+50 SEE SHEET C7



NOTES:

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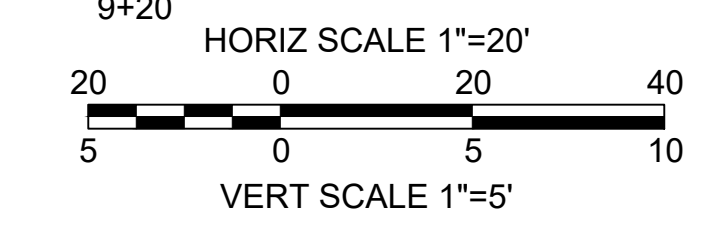
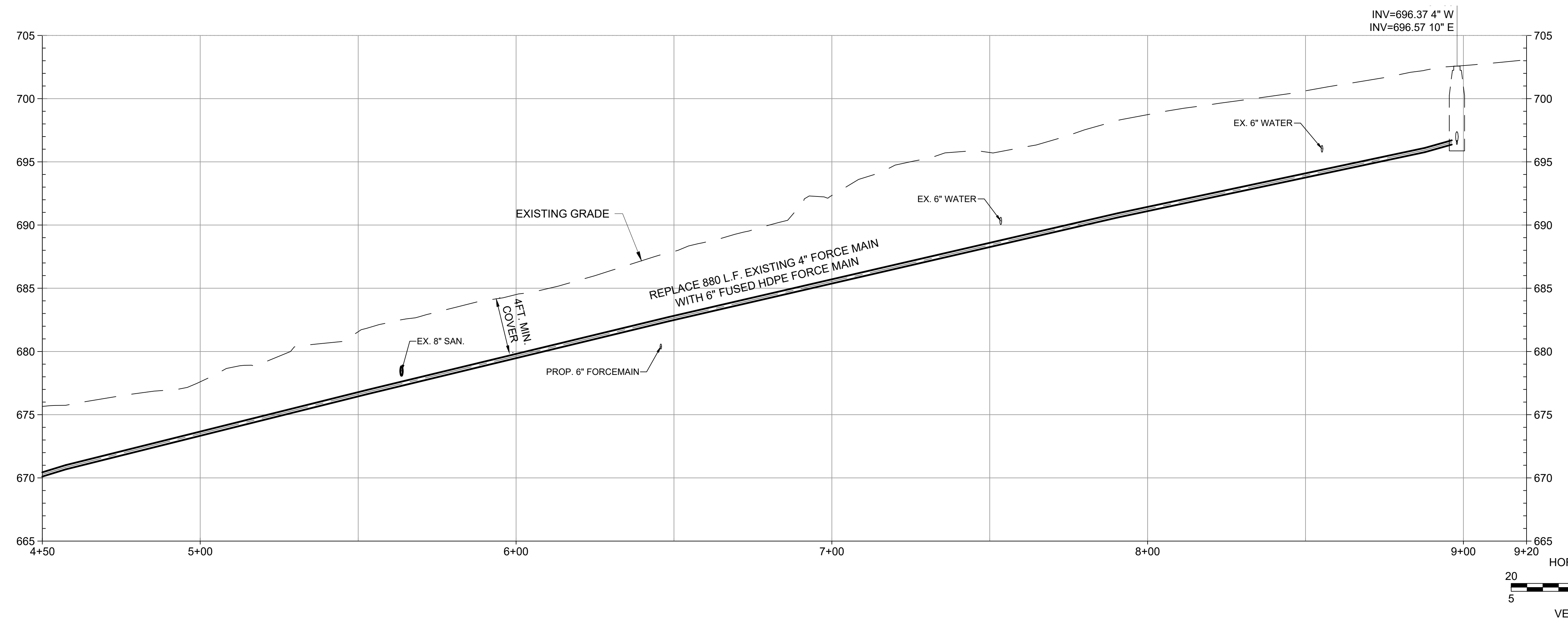
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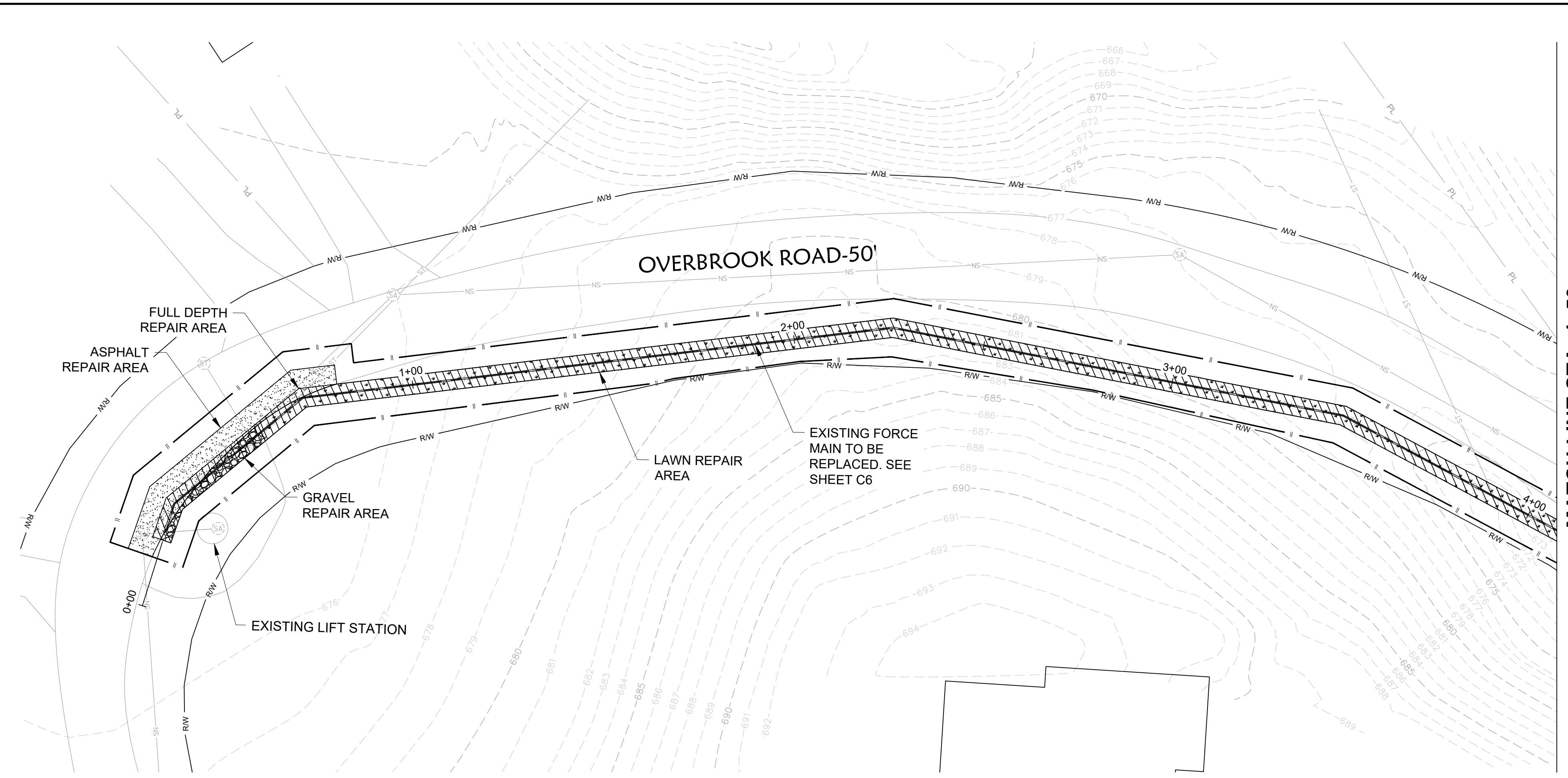
SHEET TITLE

EXISTING FORCE MAIN
 PLAN AND PROFILE
 STA 4+50 TO STA 9+20

SHEET NUMBER

C8





MATCH LINE STA. 4+50

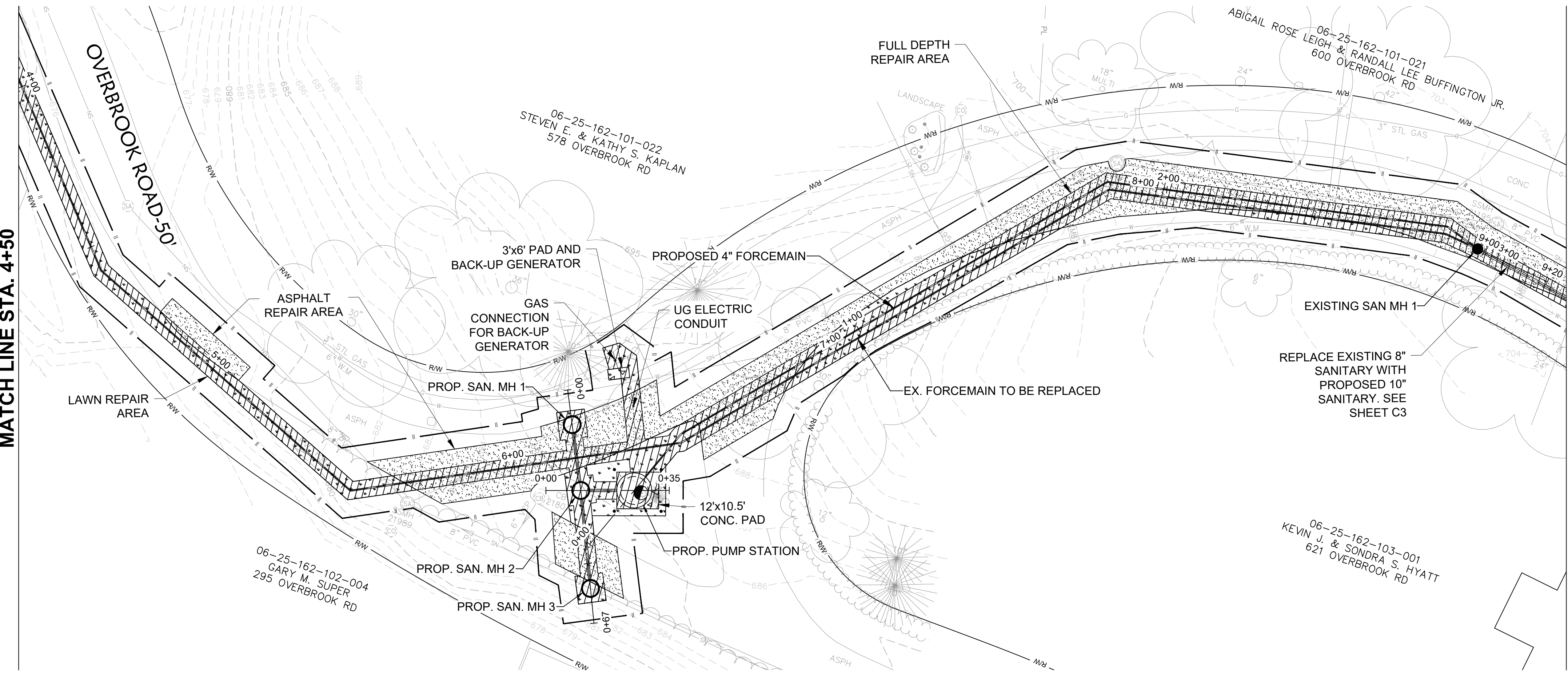
NOTES:

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LEGEND:

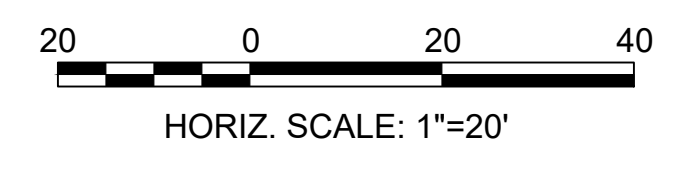
- FULL DEPTH REPAIR
- ASPHALT REPAIR AREA
- CONCRETE REPAIR AREA
- LAWN REPAIR AREA
- GRAVEL REPAIR AREA

WORK LIMITS



MATCH LINE STA. 4+50

MATCH LINE STA. 9+20



PROJECT
OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT
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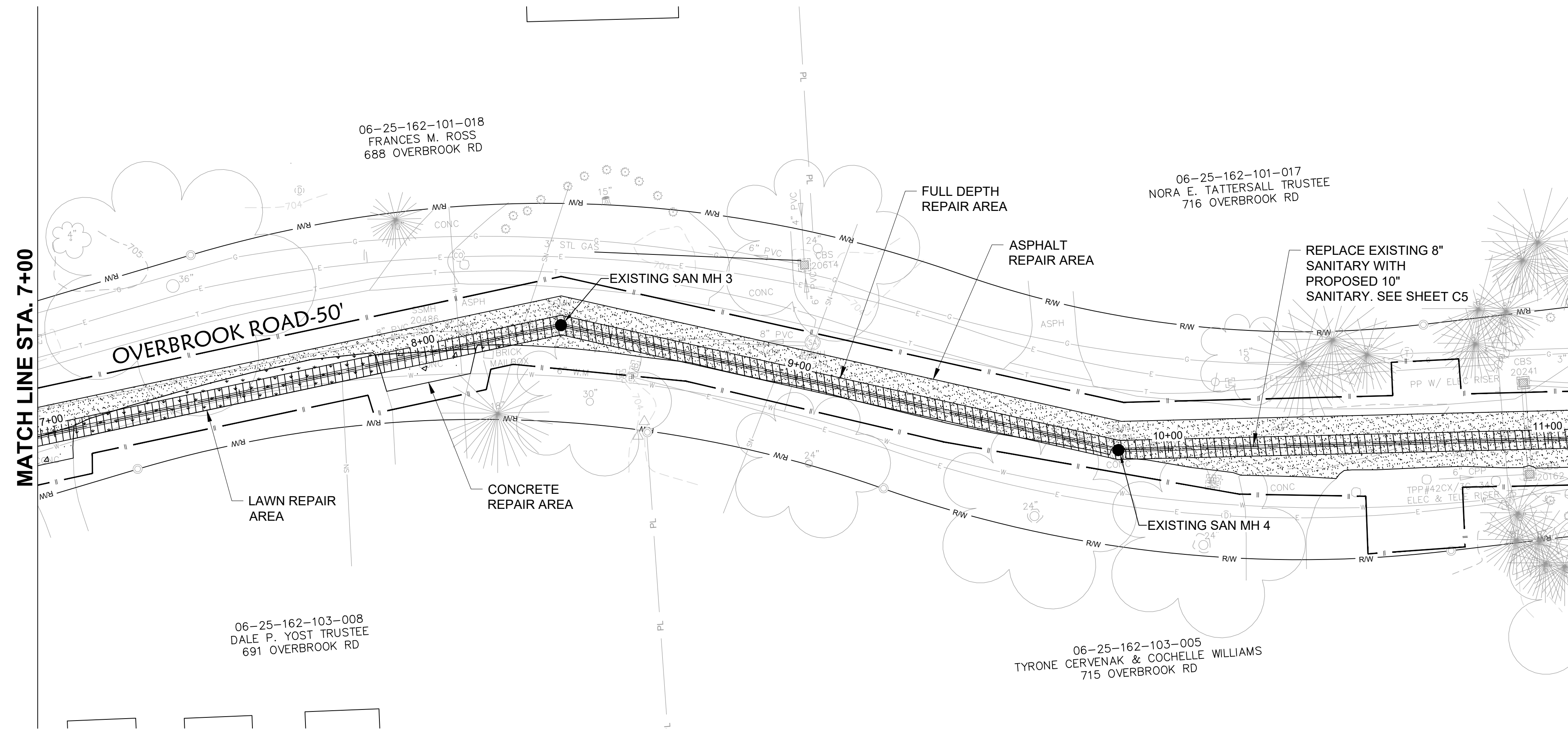
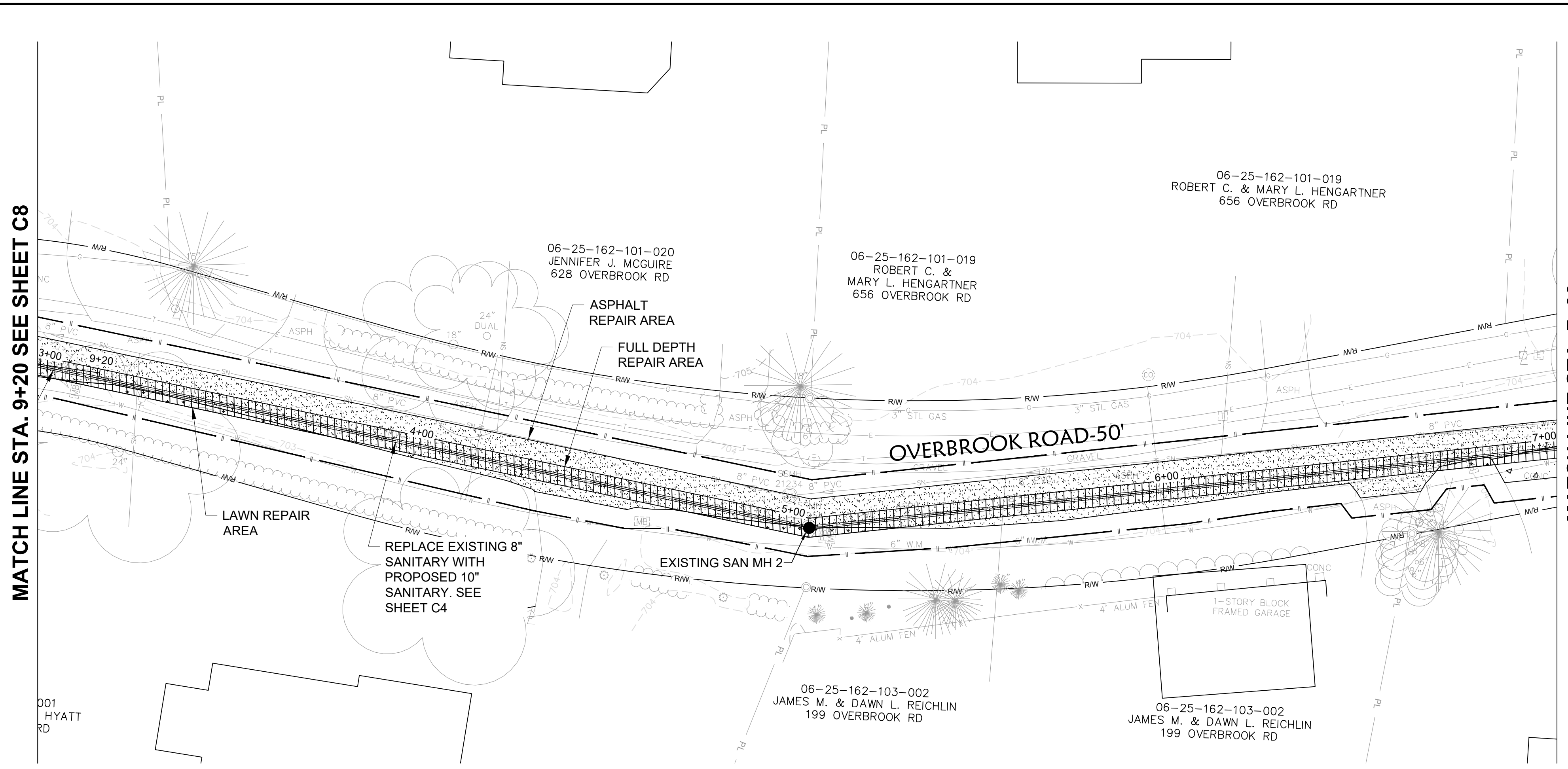
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SHEET TITLE

RESTORATION PLAN I
 STA 0+00 TO STA 9+20

SHEET NUMBER

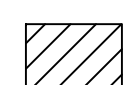
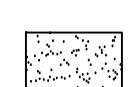

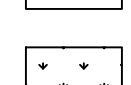
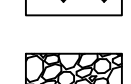
C9

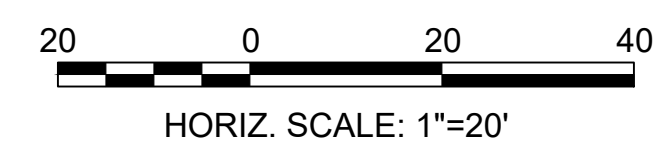
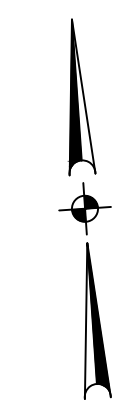


NOTES:

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LEGEND:

-  FULL DEPTH REPAIR
 -  ASPHALT REPAIR AREA
 -  CONCRETE REPAIR AREA
 -  LAWN REPAIR AREA
 -  GRAVEL REPAIR AREA
- WORK LIMITS



PROJECT
OVERBROOK PUMP STATION II DESIGN

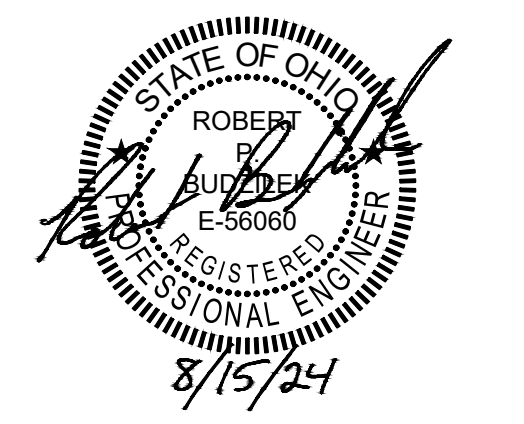
WASTEWATER POLLUTION CONTROL PLANT
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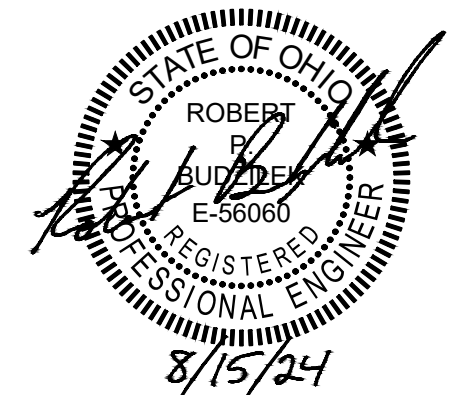
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SHEET TITLE

RESTORATION PLAN II
 STA 9+20 TO STA 11+75

SHEET NUMBER

C10

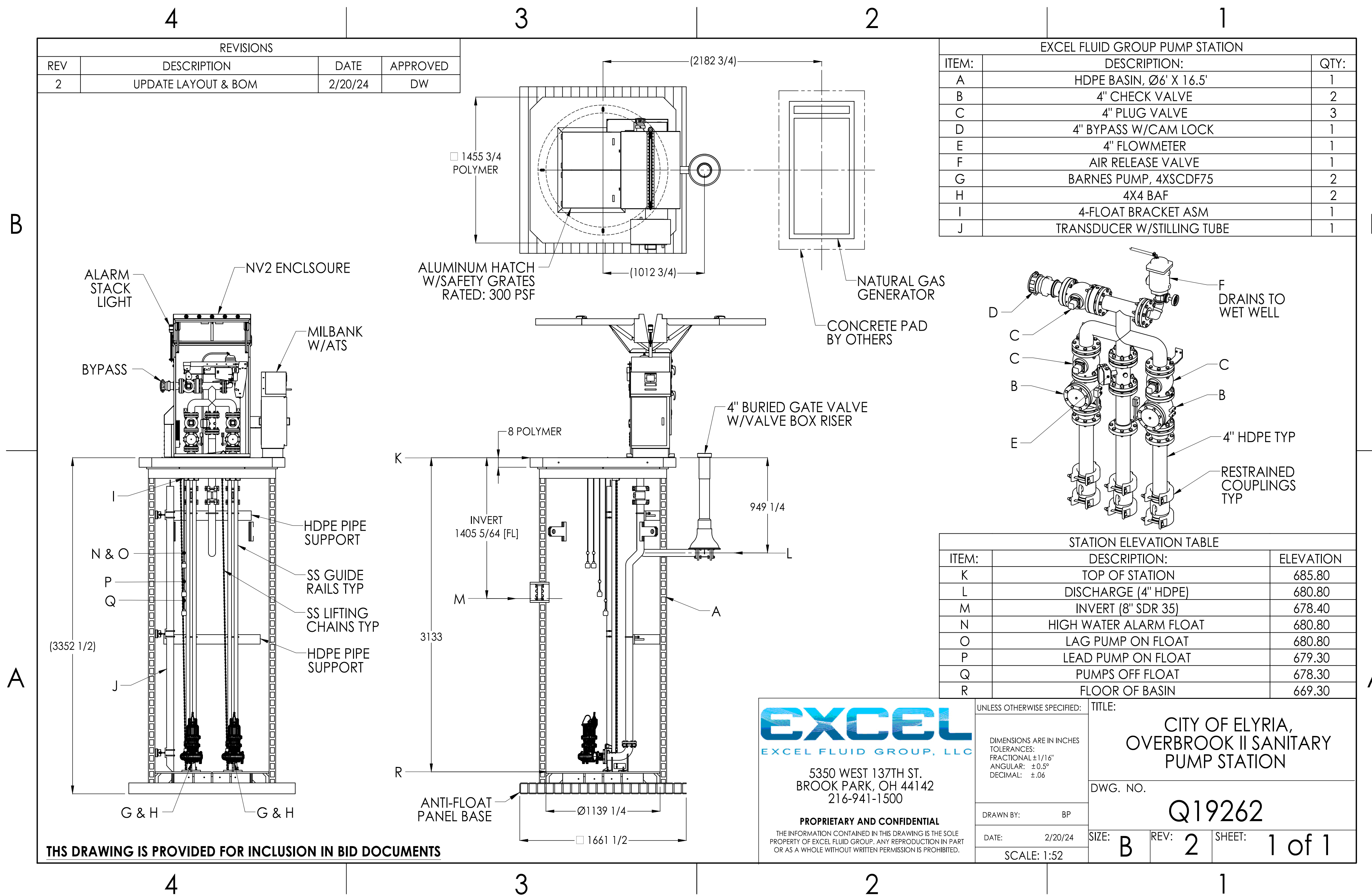


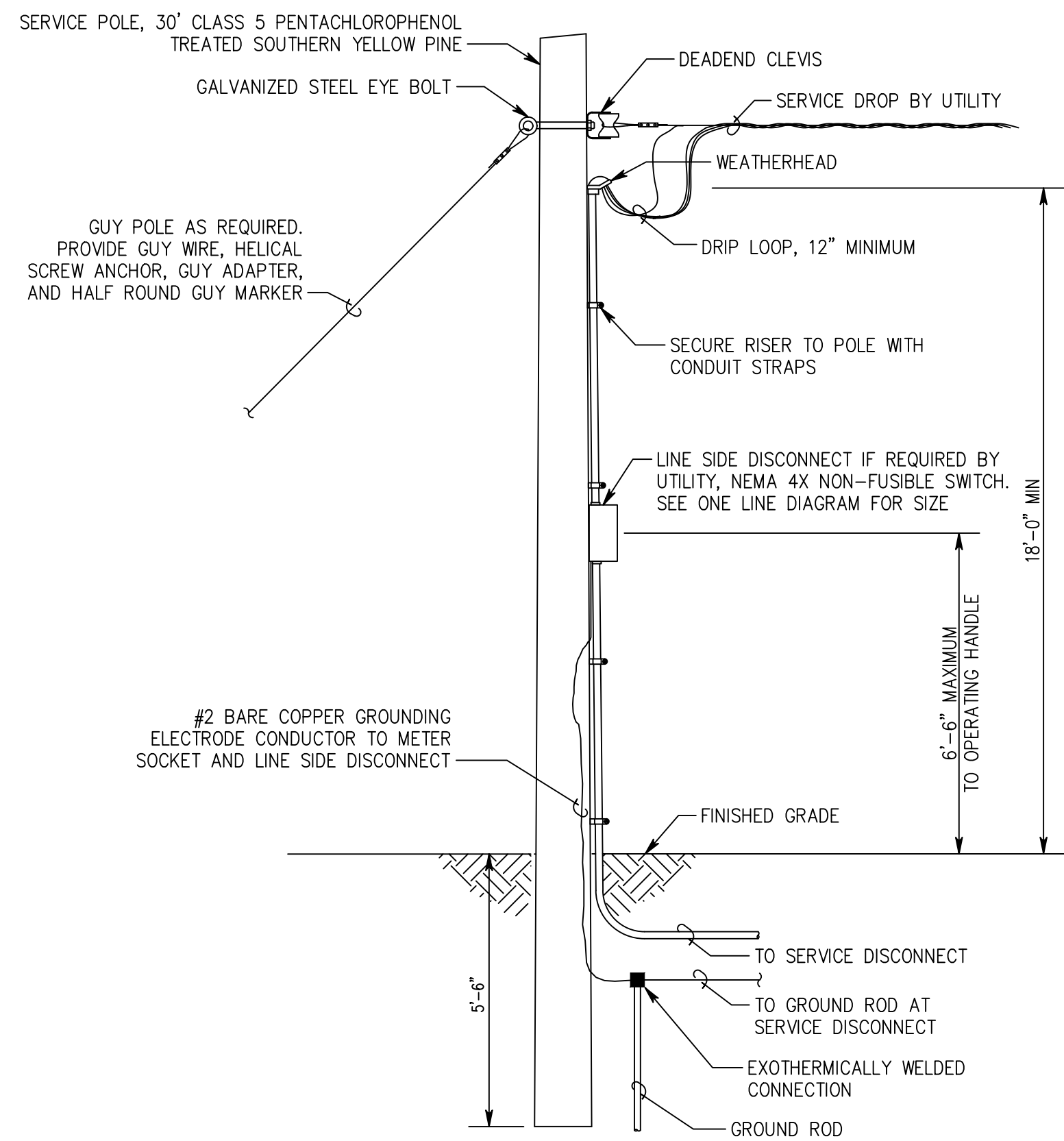
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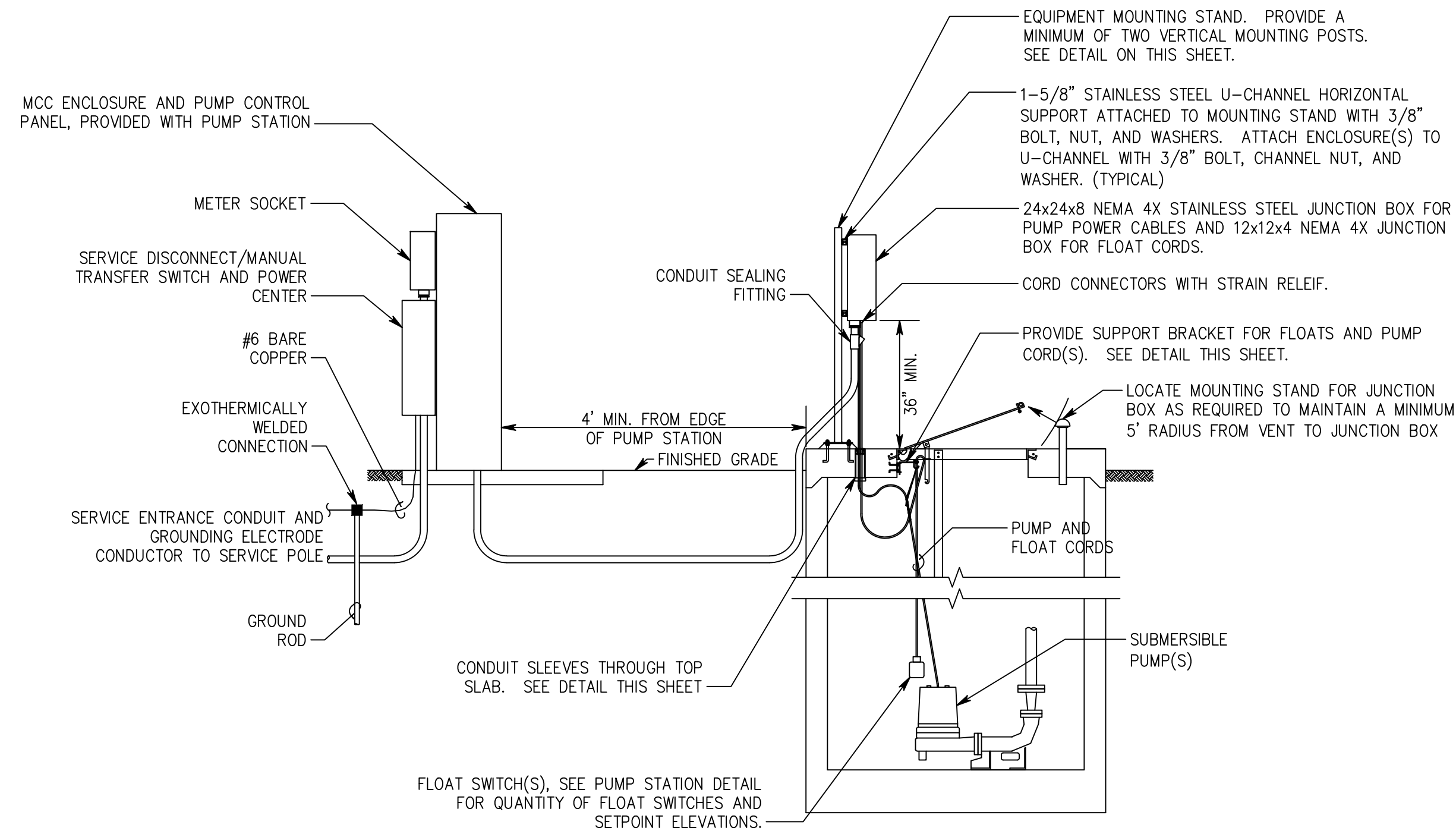
PROPOSED PUMP STATION
 DETAILS

PS1





ELECTRICAL SERVICE POLE DETAIL
NOT TO SCALE



PUMP STATION ELECTRICAL DETAIL
NOT TO SCALE

KEYED NOTES:

1 FURNISHED WITH PUMPS, INSTALLED UNDER DIVISION 26.



PROJECT
OVERBROOK PUMP STATION II DESIGN

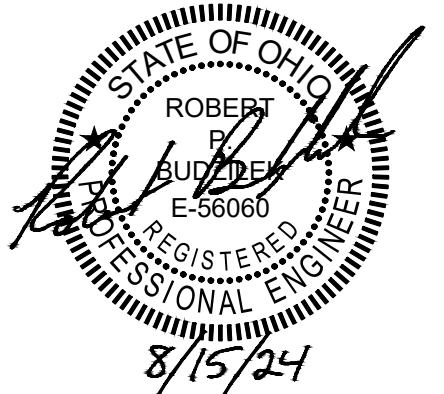
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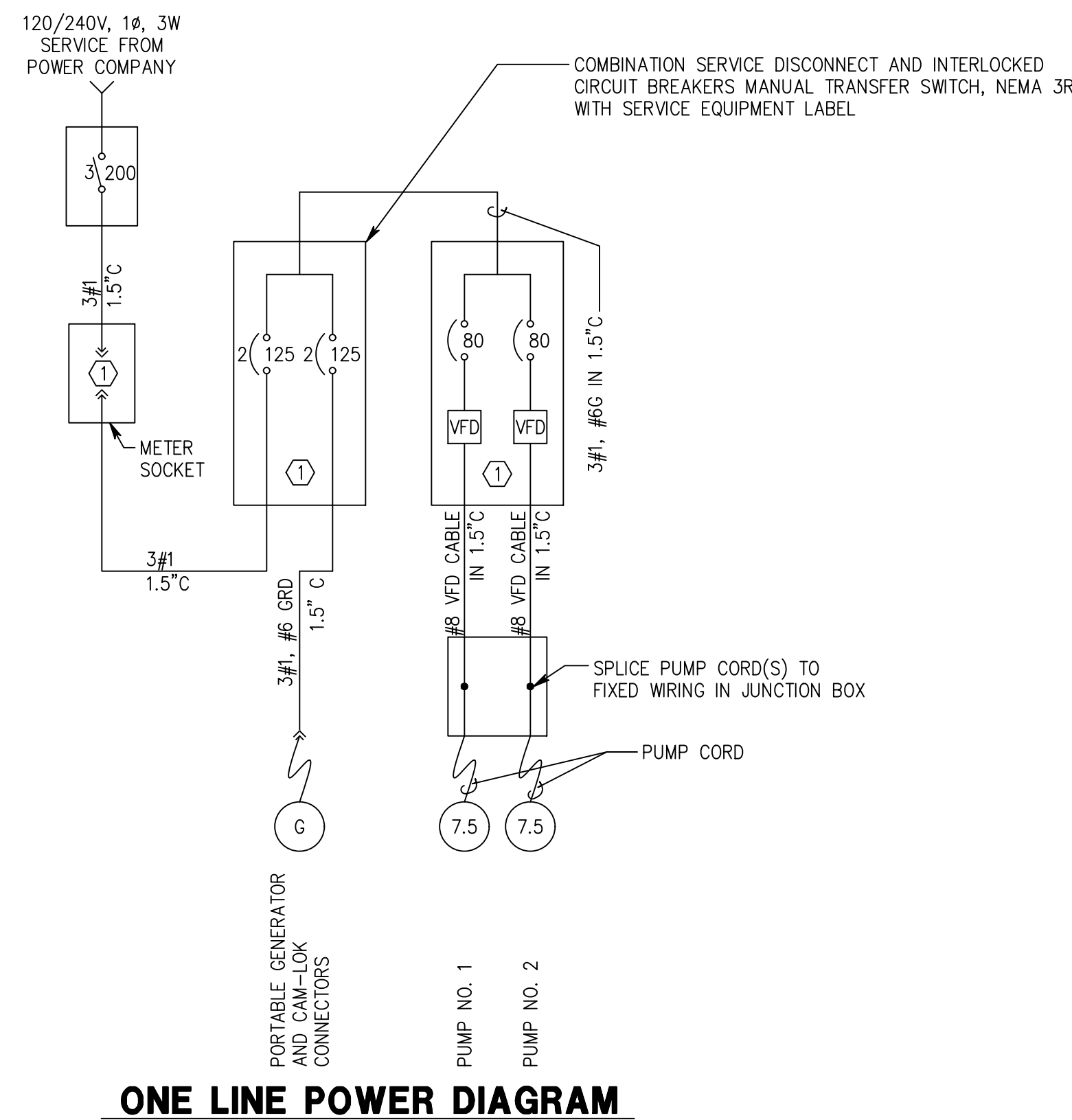
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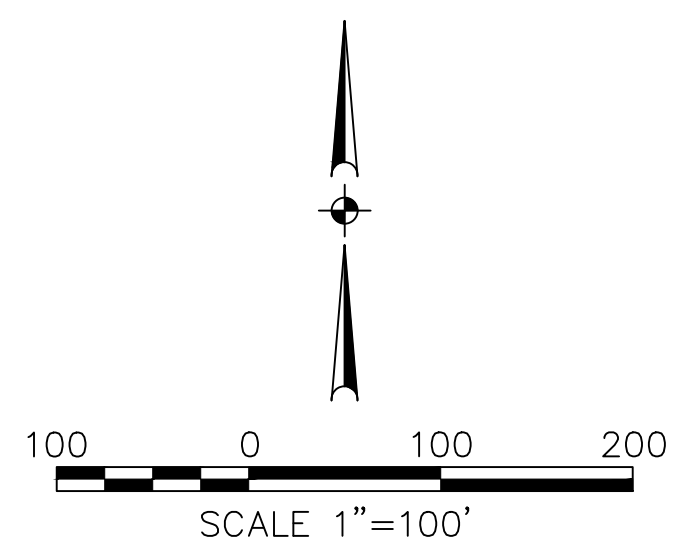
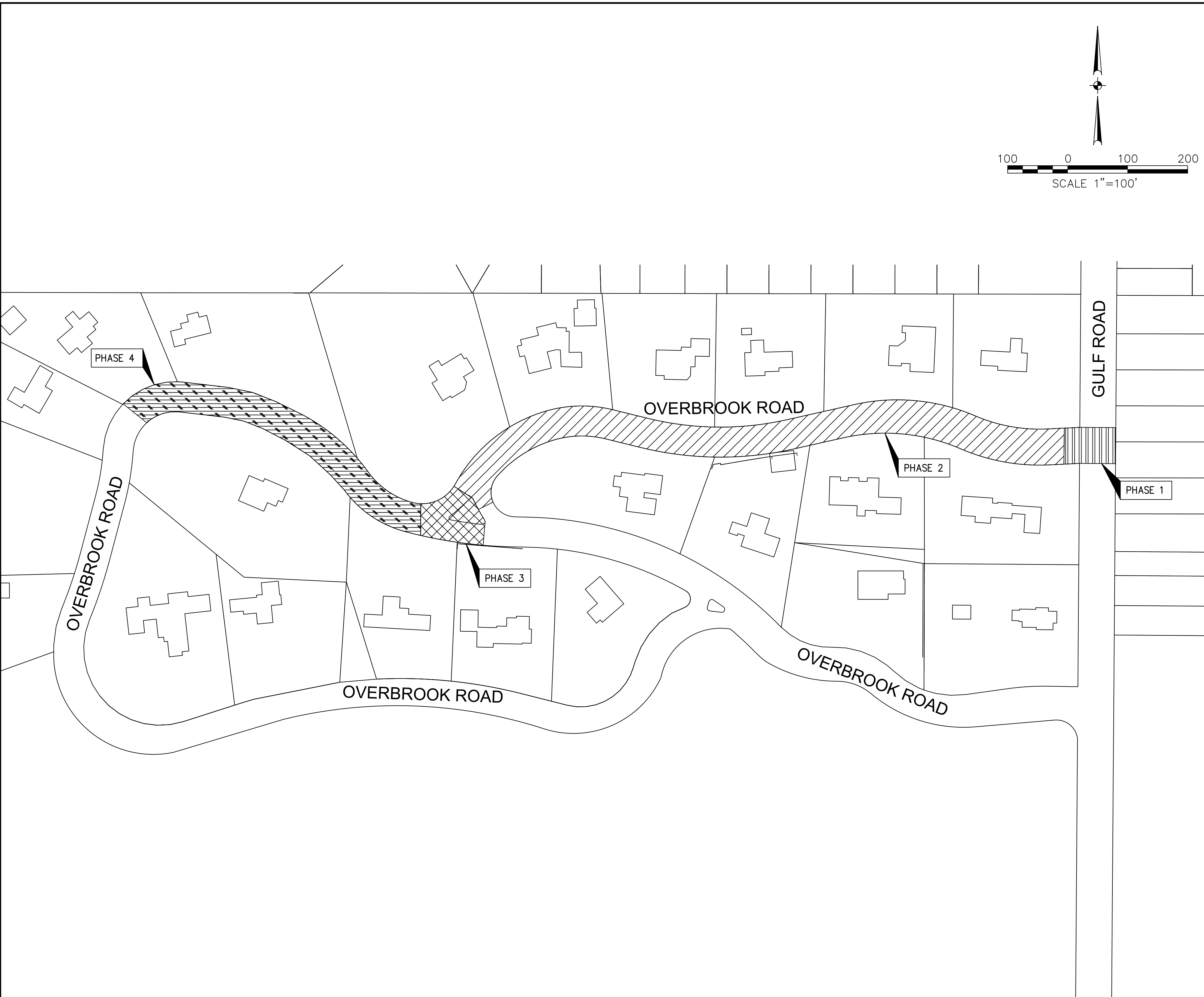
ELECTRICAL DETAILS

SHEET NUMBER

E1



ONE LINE POWER DIAGRAM



SUGGESTED SEQUENCE OF CONSTRUCTION AND MOT OVERVIEW

- PHASE 1 - GULF ROAD (??/24 - ??/24)**
 a) PROVIDE DETOURING FOR SOUTHBOUND AND NORTHBOUND TRAFFIC AROUND THE WORK ZONE.
 b) MAINTAIN LOCAL ACCESS.
 c) MAINTAIN TWO-LANE / TWO-WAY TRAFFIC AND LOCAL ACCESS DURING THE RESTORATION WORK.
- PHASE 2 - OVERBROOK ROAD (NORTH ENTRANCE HEADING EAST) (??/24 - ??/24)**
 a) CLOSE OVERBROOK WITHIN THE MOVING SEWER WORK ZONE AND PROVIDE DETOURING.
 b) MAINTAIN LOCAL ACCESS.
 c) MAINTAIN LOCAL ACCESS AND PROVIDE DETOURING DURING RESTORATION WORK.
- PHASE 3 - OVERBROOK ROAD (PUMP STATION LOCATION) (??/24 - ??/24)**
 a) CLOSE OVERBROOK WITHIN THE PUMP STATION WORK ZONE AND PROVIDE DETOURING.
 b) MAINTAIN LOCAL ACCESS.
 c) MAINTAIN LOCAL ACCESS AND PROVIDE DETOURING DURING RESTORATION WORK.
- PHASE 4 - OVERBROOK ROAD (REPLACE EXISTING FORCE MAIN) (??/24 - ??/24)**
 a) CLOSE OVERBROOK WITHIN THE MOVING FORCE MAIN REPLACEMENT WORK ZONE AND PROVIDE DETOURING.
 b) MAINTAIN LOCAL ACCESS.
 c) MAINTAIN LOCAL ACCESS AND PROVIDE DETOURING DURING RESTORATION WORK.

- DUST CONTROL**
 1. THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
- PUBLIC MEETING**
 1. CONTRACTOR SHALL ATTEND PUBLIC MEETING TO BE SCHEDULED BY CITY.

- LEGEND:**
- PHASE 1 CONSTRUCTION
 - PHASE 2 CONSTRUCTION
 - PHASE 3 CONSTRUCTION
 - PHASE 4 CONSTRUCTION



PROJECT
OVERBROOK PUMP STATION II DESIGN

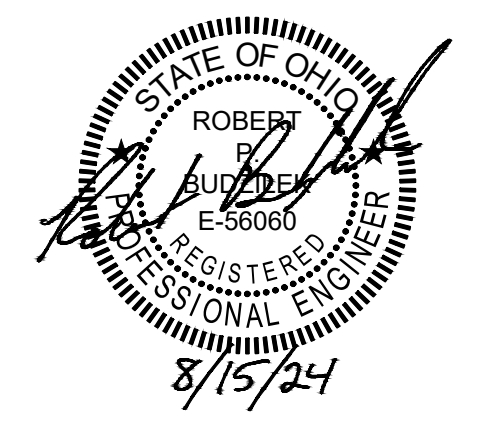
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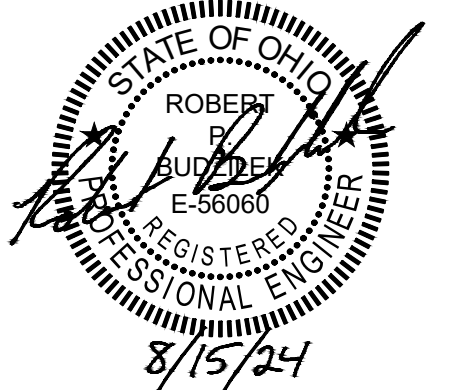
I/R	DATE	DESCRIPTION
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PROJECT NUMBER
60332065

SHEET TITLE
MAINTENANCE OF TRAFFIC PLAN
OVERBROOK RD.

SHEET NUMBER
MOT1

REGISTRATION



ISSUE/REVISION

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SHEET TITLE

MAINTENANCE OF TRAFFIC PLAN
OVERBROOK RD.

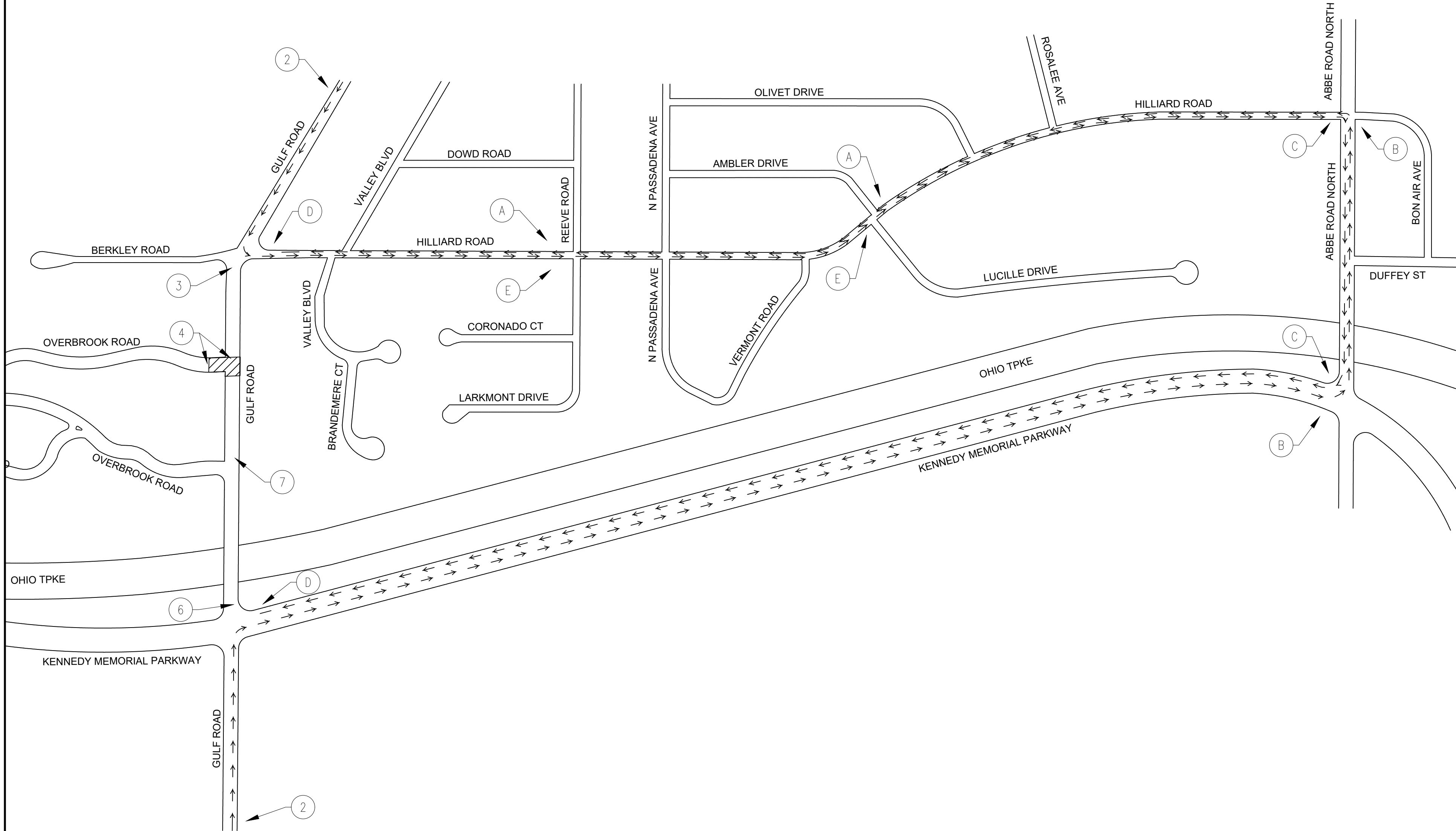
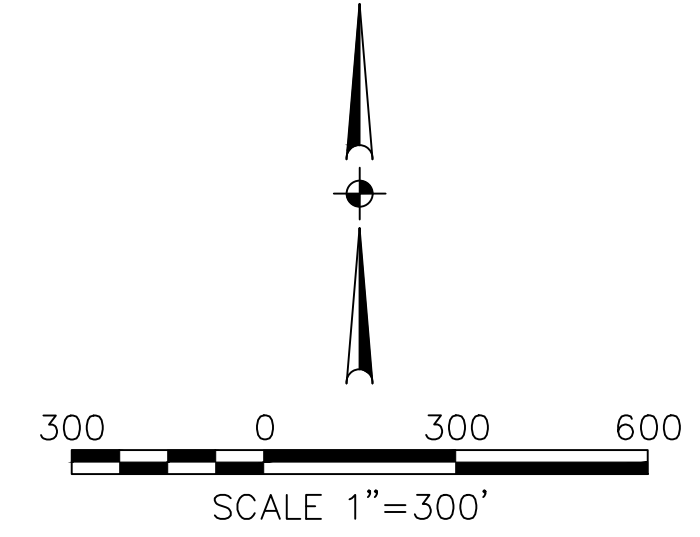
SHEET NUMBER

MOT2

ITEM 614 - MAINTENANCE OF TRAFFIC

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- PUBLIC MEETING**
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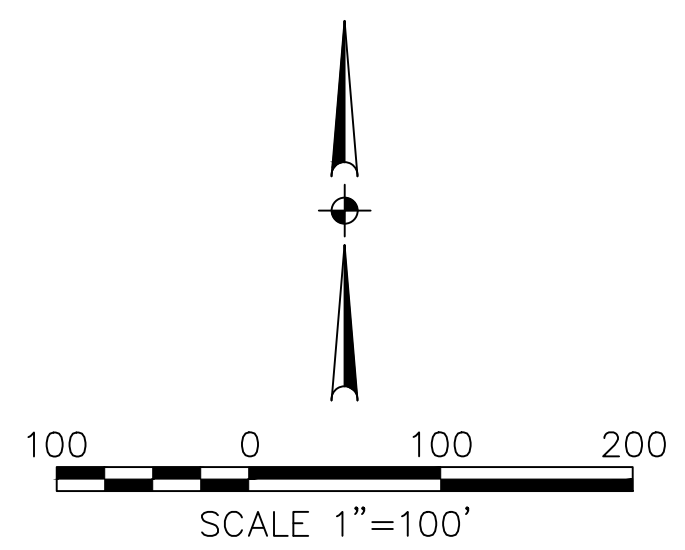
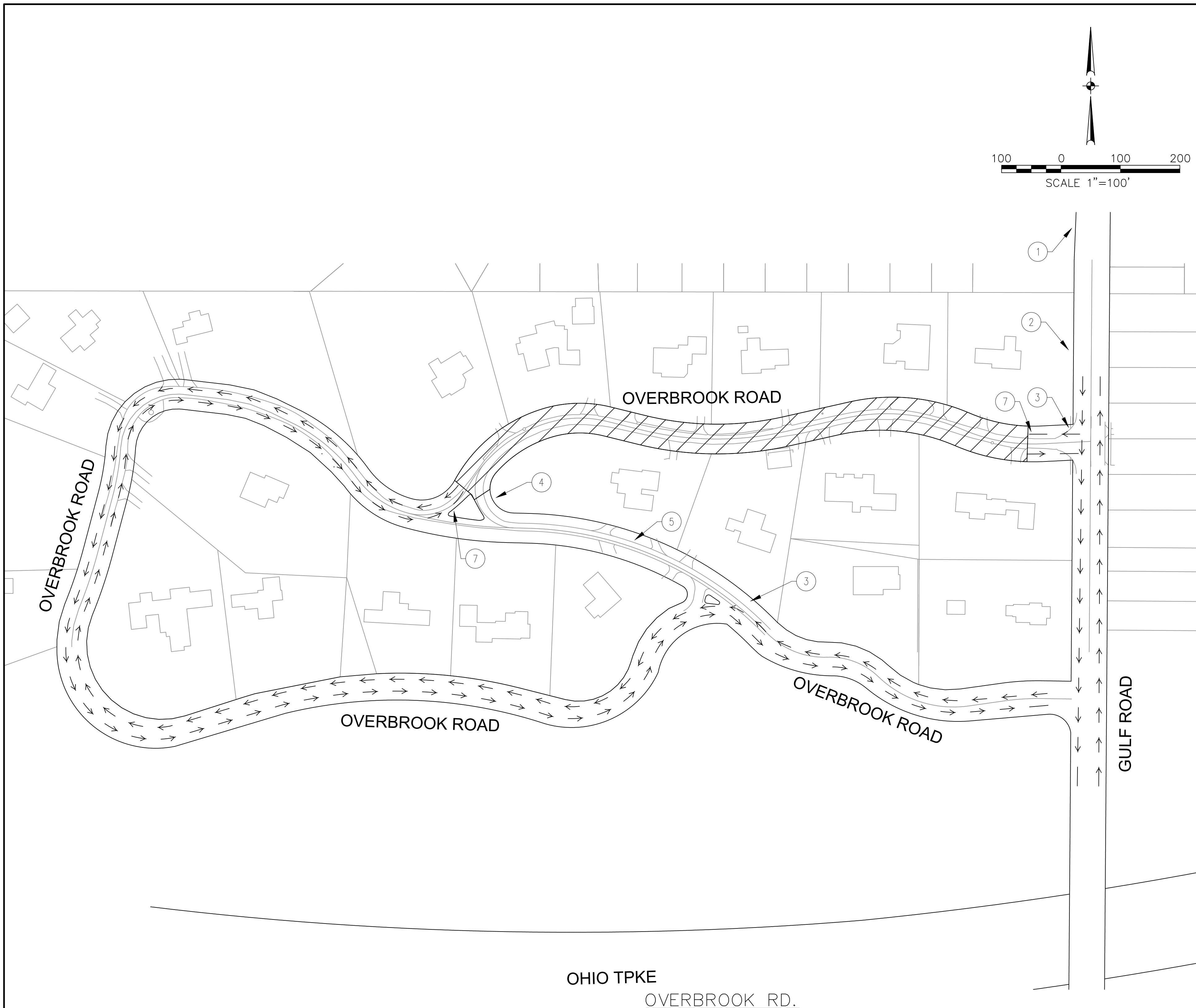
LEGEND:

- — TRAFFIC FLOW
- ▨ WORK ZONE

GULF RD.

<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>	<p>E</p>	<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>	<p>⑤</p>	<p>⑥</p>	<p>⑦</p>
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ANSI D 22' x 34' Approved: _____ Designer: _____ Checked: _____ Project Management Initials: _____ Designer: _____ Checked: _____ Project Management Initials: _____ Designer: _____ Checked: _____ Last saved by: WILLIAMSCP Last Plotted: 2024-08-13 File name: C:\USERS\WILLIAMSCP\2024-08-29 - Last saved by: WILLIAMSCP (2024-08-29) Last Plotted: 2024-08-13 Printed on 100% Post-Consumer Recycled Content Paper



ITEM 614 - MAINTENANCE OF TRAFFIC
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- PUBLIC MEETING**
1. CONTRACTOR SHALL ATTEND PUBLIC MEETING TO BE SCHEDULED BY CITY.

LEGEND:

- → → TRAFFIC FLOW
- ▨ WORK ZONE

OVERBROOK

D3-1

NORTH

M3-1-24

DETOUR

M4-9-30

(A)

OVERBROOK

D3-1

DETOUR

M4-9L-30

(B)

OVERBROOK

D3-1

DETOUR

M4-9R-30

(C)

OVERBROOK

D3-1

END

DETOUR

M4-8a-30

(D)

SPEED

LIMIT

10

R2-1

(ORANGE)

(E)

ROAD

WORK

AHEAD

W20-1

(1)

DETOUR

AHEAD

W20-2

(2)

ROAD

CLOSED

AHEAD

LOCAL

TRAFFIC

ONLY

R11-3A-60

M4-10L-48

MOUNTED ON 6'

TYPE III BARRICADE

(3)

ROAD

CLOSED

R11-2-48

MOUNTED ON 6'

TYPE III BARRICADE

(4)

ROAD

CLOSED

AHEAD

W20-4

(5)

ROAD

CLOSED

AHEAD

LOCAL

TRAFFIC

ONLY

R11-3A-60

M4-10R-48

MOUNTED ON 6'

TYPE III BARRICADE

(6)

ROAD

CLOSED

AHEAD

LOCAL

TRAFFIC

ONLY

R11-3A-60

MOUNTED ON 6'

TYPE III BARRICADE

(7)



PROJECT

**OVERBROOK PUMP
STATION II DESIGN**

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
ELYRIA, OH

CLIENT

CITY OF ELYRIA
DEPARTMENT OF PUBLIC SERVICE
131 COURT STREET
ELYRIA, OH

CONSULTANT

AECOM
1300 EAST 9TH STREET, SUITE 500
CLEVELAND, OH 44114
216.622.2300 tel 216.622.2301 fax
www.aecom.com

CONSULTANTS

SURVEY
KS ASSOCIATES, INC.
260 BURNS ROAD, SUITE 100
ELYRIA, OH 44035
440.465.4730 tel 440.365.4790 fax
www.ksassociates.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	08/15/2024	BID DOCUMENTS

PROJECT NUMBER

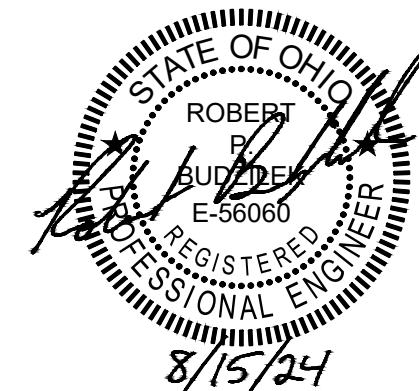
60332065

SHEET TITLE

MAINTENANCE OF TRAFFIC PLAN
OVERBROOK RD.

SHEET NUMBER

MOT3



NO.	DATE	DESCRIPTION
1	08/15/2024	BID DOCUMENTS
I/R	DATE	DESCRIPTION

60332065

MAINTENANCE OF TRAFFIC PLAN
 OVERBROOK RD.

MOT4

ITEM 614 - MAINTENANCE OF TRAFFIC
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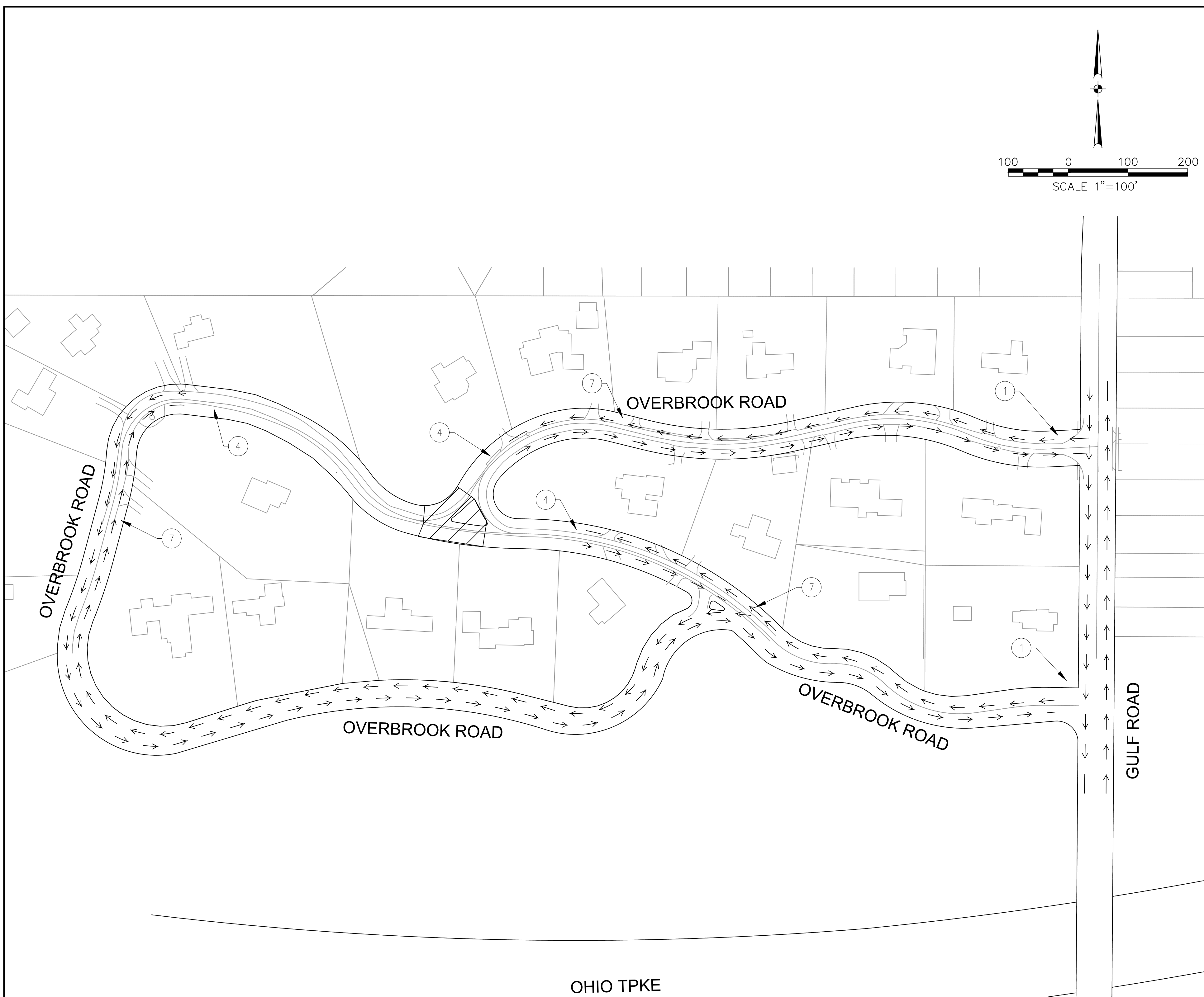
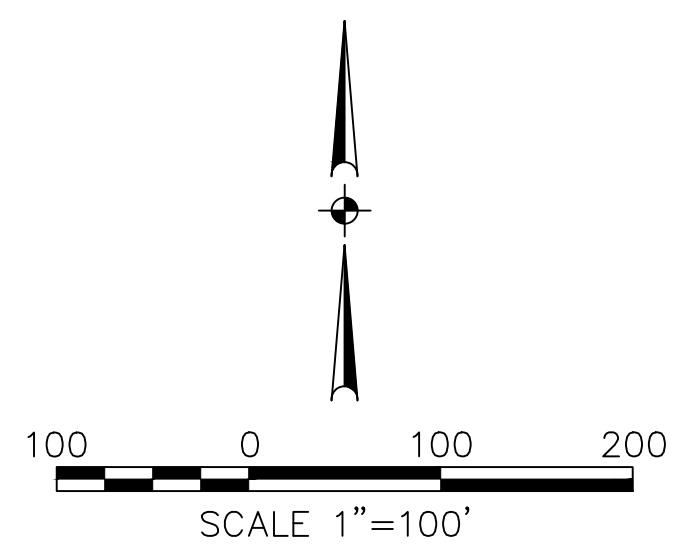
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PUBLIC MEETING

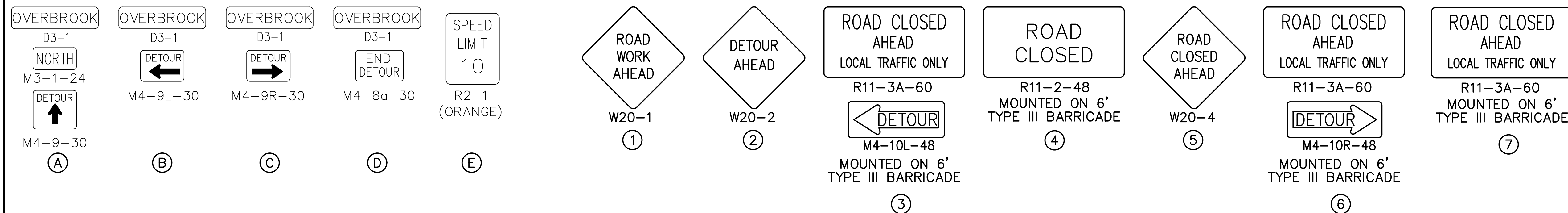
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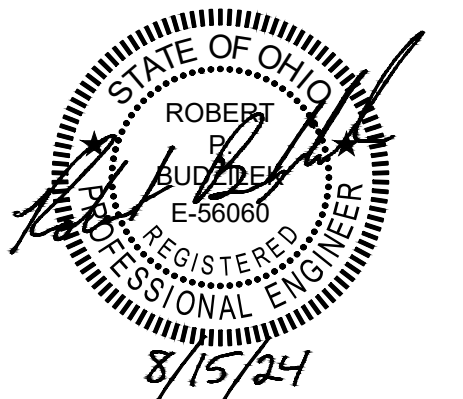


LEGEND:

- → → TRAFFIC FLOW
- ▨ WORK ZONE

OHIO TPKE
 OVERBROOK RD.

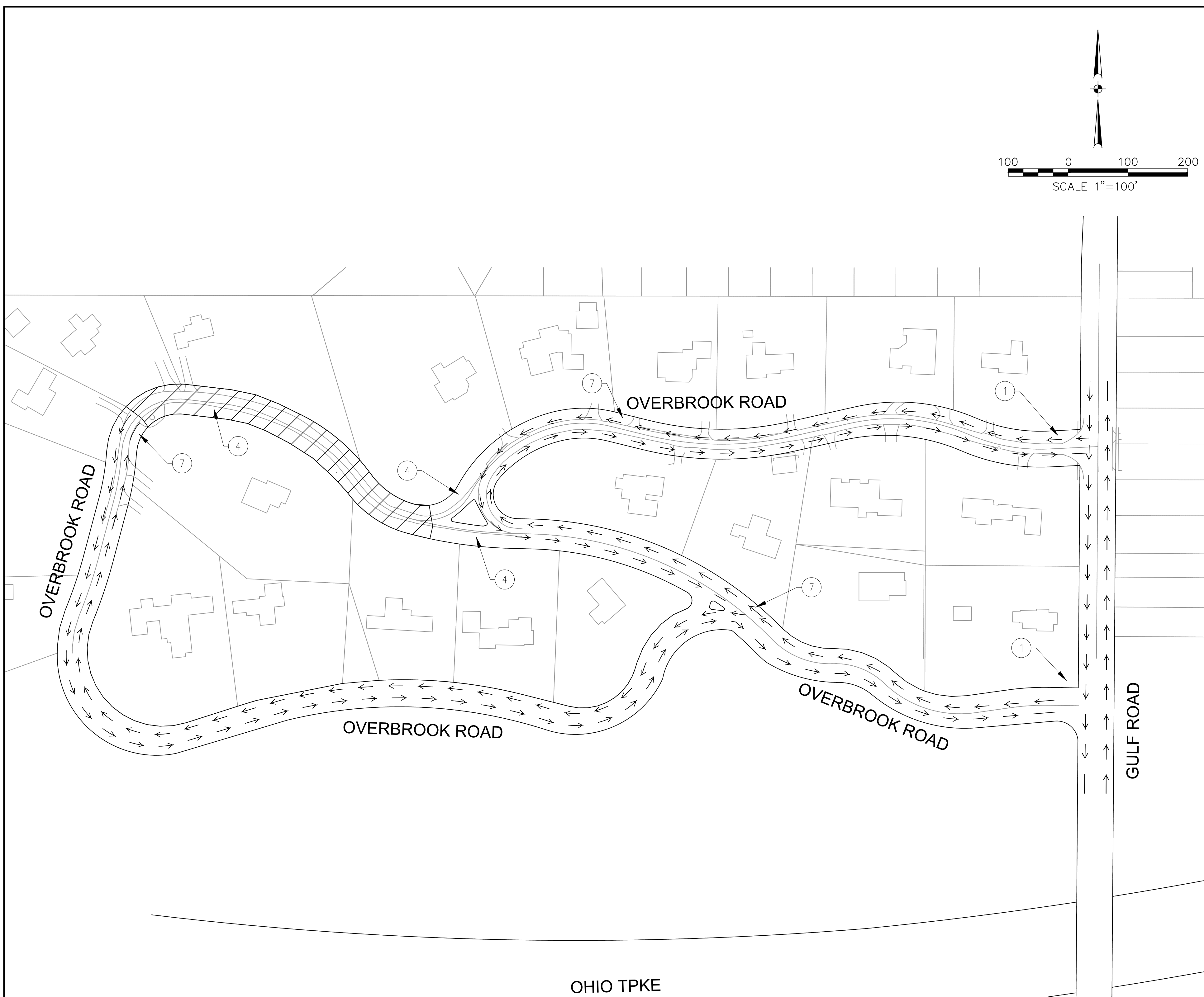
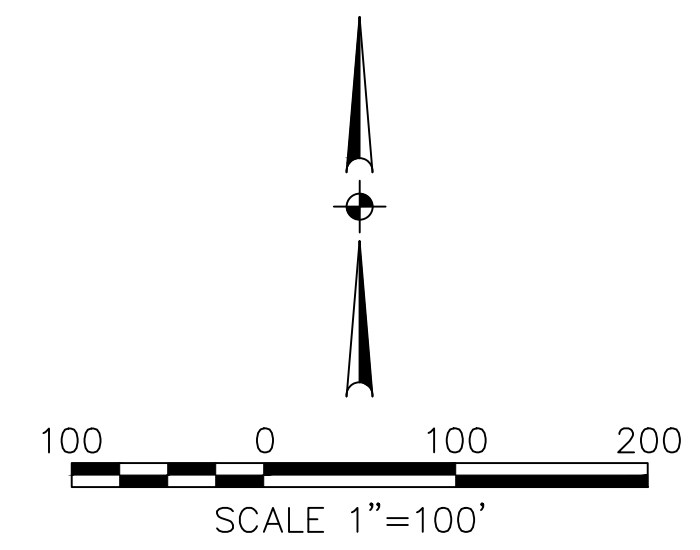




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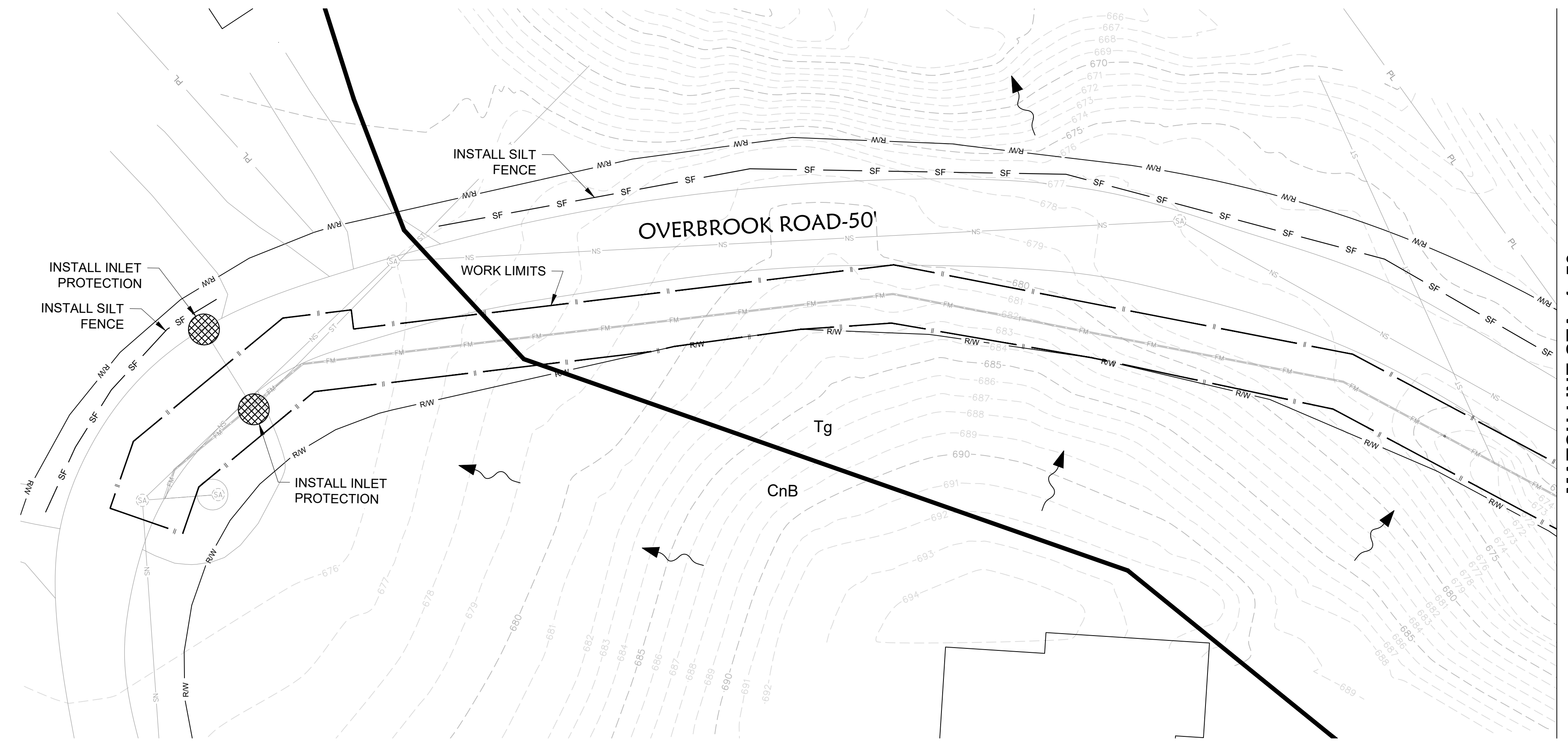


LEGEND:

- — TRAFFIC FLOW
- ▨ WORK ZONE

OHIO TPKE
 OVERBROOK RD.

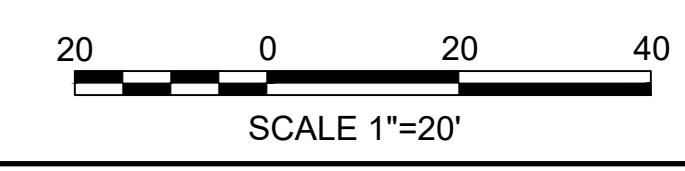
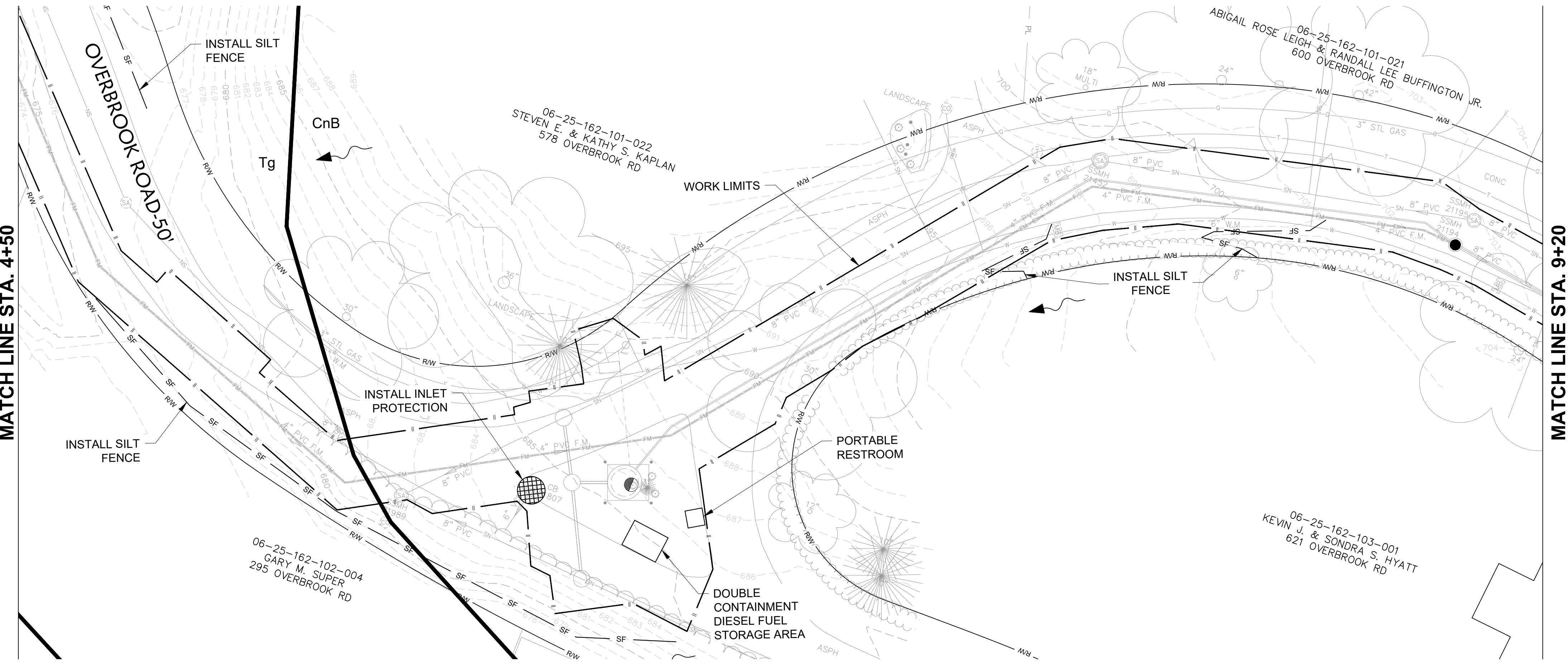
 OVERBROOK D3-1 NORTH M3-1-24 DETOUR M4-9-30 (A)	 OVERBROOK D3-1 DETOUR M4-9L-30 (B)	 OVERBROOK D3-1 DETOUR M4-9R-30 (C)	 OVERBROOK D3-1 END DETOUR M4-8a-30 (D)	 SPEED LIMIT 10 R2-1 (ORANGE) (E)	 ROAD WORK AHEAD W20-1 (1)	 DETOUR AHEAD W20-2 (2)	 ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY R11-3A-60 M4-10L-48 MOUNTED ON 6' TYPE III BARRICADE (3)	 ROAD CLOSED R11-2-48 MOUNTED ON 6' TYPE III BARRICADE (4)	 ROAD CLOSED AHEAD W20-4 (5)	 ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY R11-3A-60 M4-10R-48 MOUNTED ON 6' TYPE III BARRICADE (6)	 ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY R11-3A-60 MOUNTED ON 6' TYPE III BARRICADE (7)
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NOTES:
1.

LEGEND:

- SILT FENCE
- WORK LIMITS
- RUNOFF FLOW DIRECTION
- EXISTING FEATURE TO BE REMOVED
- INLET PROTECTION



PROJECT
OVERBROOK PUMP STATION II DESIGN

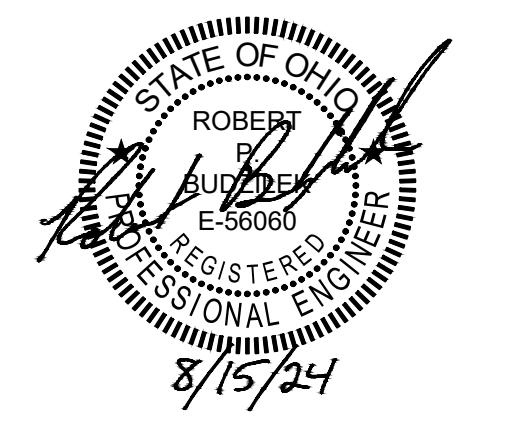
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 SURVEY
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 260 BURNS ROAD, SUITE 100
 ELYRIA, OH 44035
 440.465.4730 tel 440.365.4790 fax
 www.ksassociates.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	08/15/2024	BID DOCUMENTS

PROJECT NUMBER
60332065

SHEET TITLE
SWPPP SITE PLAN I

SHEET NUMBER
SWPPP 1

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____ ANS I D 22' x 34'

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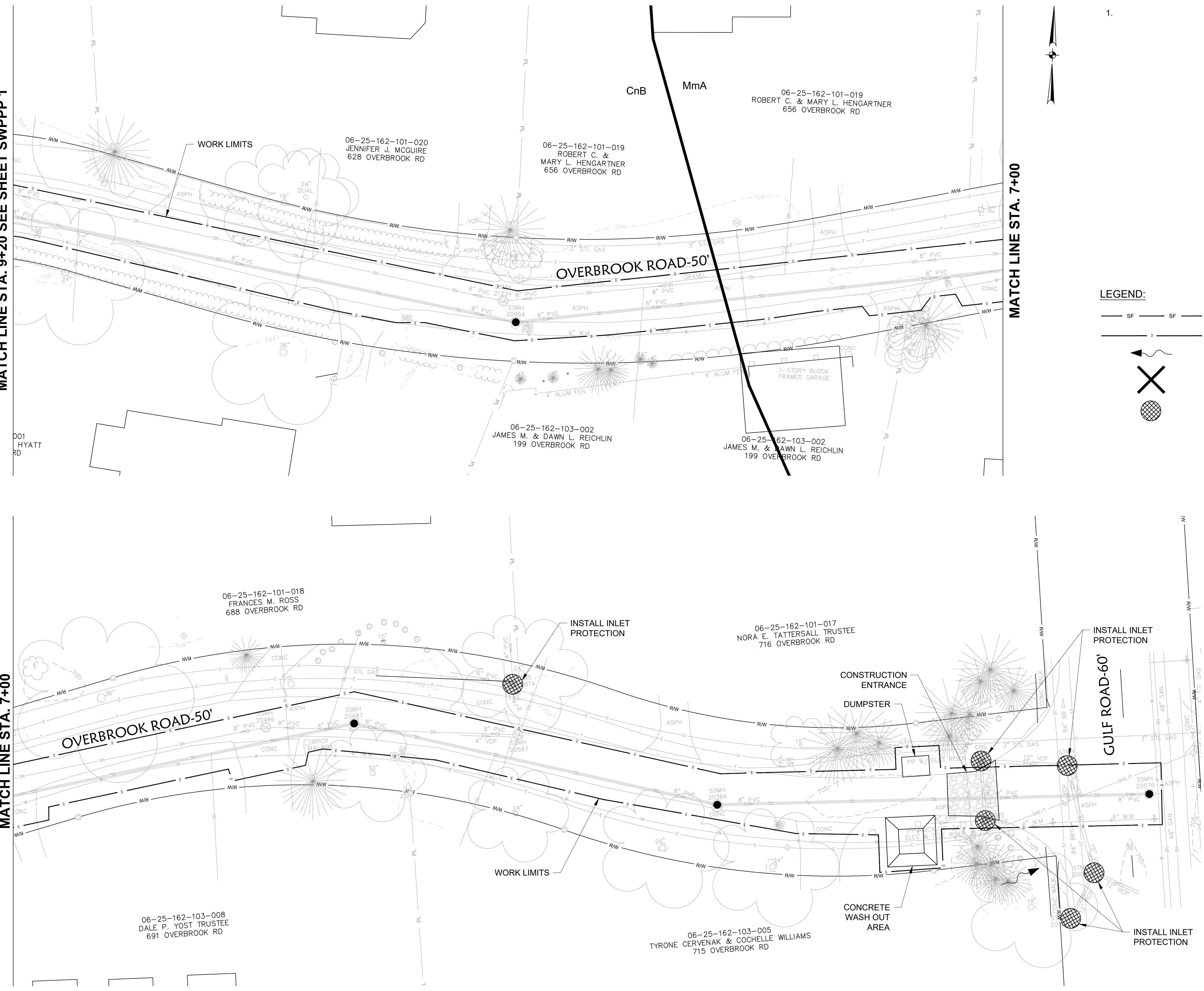
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Printed on 100% Post-Consumer Recycled Content Paper

MATCH LINE STA. 9+20 SEE SHEET SWPPP 1

MATCH LINE STA. 7+00

MATCH LINE STA. 7+00



NOTES:
1.

LEGEND:

- SF SF SILT FENCE
- WORK LIMITS
- RUNOFF FLOW DIRECTION
- EXISTING FEATURE TO BE REMOVED
- INLET PROTECTION



PROJECT
OVERBROOK PUMP STATION II DESIGN

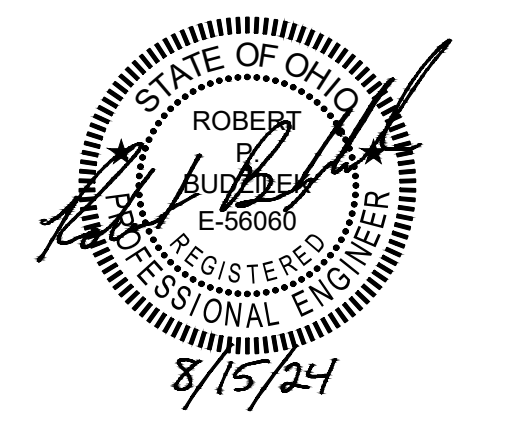
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REGISTRATION



ISSUE/REVISION

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PROJECT NUMBER
60332066

SHEET TITLE
SWPPP SITE PLAN II

SHEET NUMBER
SWPPP 2

CONTRACTOR'S ACKNOWLEDGMENT STATEMENT:

THE CONTRACTOR SHALL REVIEW THE FOLLOWING STATEMENTS AND SUBMIT WITH SIGNATURE OF THE APPROPRIATE PARTY TO THE CITY OF ELYRIA PRIOR TO ANY EARTH DISTURBING ACTIVITIES. CONTRACTOR SHALL ALSO MAKE APPLICATION FOR A GRADING PERMIT AND A STORM WATER PERMIT THROUGH THE CITY ENGINEER'S OFFICE PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

PROVIDE BELOW NAME AND CONTACT INFORMATION FOR THE PERSON RESPONSIBLE FOR AUTHORIZING AND AMENDING THE SWPPP.

PRINT NAME _____ COMPANY NAME _____

SIGNATURE _____ DATE _____

BUSINESS NUMBER _____ CELL NUMBER _____

PROVIDE BELOW NAME AND CONTACT INFORMATION FOR THE PERSON PERFORMING THE INSPECTIONS OF THE TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL MEASURES AND ENSURING THEY ARE DONE IN ACCORDANCE WITH THE NPDES CGP.

PRINT NAME _____ COMPANY NAME _____

SIGNATURE _____ DATE _____

BUSINESS NUMBER _____ CELL NUMBER _____

THE CITY OF ELYRIA MAY PERFORM ON-SITE INSPECTIONS OF THE PROJECT TO ENSURE COMPLIANCE WITH THE PERMIT. IF ANY CHANGES, REPAIRS, OR MAINTENANCE ARE NOTED, CONTRACTOR IS RESPONSIBLE TO MAKE AMENDMENTS BY THE DATE PROVIDED BY THE CITY ENGINEER.

SWPPP GENERAL NOTES

- CONTRACTOR SHALL COMPLETE, SIGN AND DATE THE CO-PERMITTEE FORM (INCLUDED IN THE BID BOOK), SEND TO OEPA AND SUBMIT A COPY OF IT TO THE CITY ENGINEER'S OFFICE PRIOR TO COMMENCEMENT OF WORK. PRIOR TO WORK, THE CONTRACTOR SHALL LOCATE ON THE SWPPP PLANS PROVIDED (SHEETS CSWP PL1 & CSWP PL2) ALL CONSTRUCTION SUPPORT FACILITIES SUCH AS, BUT NOT LIMITED TO, DESIGNATED AREAS FOR STORAGE OR DISPOSAL OF SOLID, SANITARY, AND TOXIC WASTE, DUMPSTER(S), DRUM(S), WASHOUT PIT(S), DESIGNATED FUELING AREA(S), CHEMICAL COMPOUND STORAGE AND MIXING AREA(S), EQUIPMENT AND MATERIAL STORAGE AREA(S) AND EQUIPMENT FUELING AND MAINTENANCE LOCATION(S). ALL LOCATIONS FOR THE ABOVE MENTIONED ITEMS SHALL BE AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORM WATER DRAINAGE AREAS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SEPARATE AND APPROPRIATE DISPOSAL CONTAINERS FOR SOLID, SANITARY AND TOXIC WASTE, WHICH SHALL BE SERVICED BY A LICENSED COMMERCIAL OPERATOR FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHOULD USE PROTECTED STORAGE AREAS FOR INDUSTRIAL OR CONSTRUCTION MATERIALS TO MINIMIZE EXPOSURE OF SUCH MATERIALS TO STORM WATER.
- ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714.
- ALL CHEMICALS MIXED ON THE SITE SUCH AS, BUT NOT LIMITED TO, FERTILIZER, LIME, OR CONCRETE SHALL BE PERFORMED WITHIN THE DESIGNATED AREAS MARKED ON THE PLANS BY THE CONTRACTOR AS DIRECTED IN NOTE 1.
- IF THE CONTRACTOR WISHES TO HAVE FUEL TANKS AND DRUMS STORED ON SITE, THEN HE MUST PROVIDE A MARKED STORAGE AREA WITH ALL COMPONENTS OF SUCH CONTAINERS SURROUNDED BY A DIKE AND THE DIKE SHALL BE IN COMPLIANCE WITH ALL ELYRIA FIRE DEPARTMENT LOCAL, STATE AND FEDERAL REGULATIONS. IF ONE ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS, OR MORE, TOTAL AST OF 1,330 GALLONS, OR BELOW-GROUND STORAGE OF 42,000 GALLONS OF FUEL, THEN A SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN SHALL BE DEVELOPED AND DELIVERED TO THE CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK. IN THE EVENT OF A SMALL RELEASE (LESS THAN 25 GALLONS OF PETROLEUM WASTE), THE CONTRACTOR SHALL IMMEDIATELY CONTAIN THE SPILL AREA, CONTACT THE CITY ENGINEER, TEST THE CONTENTS AND DISPOSE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. IN THE CASE OF A LARGE RELEASE (25 GALLONS OR MORE OF PETROLEUM WASTE), THE CONTRACTOR MUST CONTACT THE OHIO EPA AT 1-800-282-9378, THE ELYRIA FIRE DEPARTMENT AT (440) 323-4815, THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC), AND THE ELYRIA WASTEWATER POLLUTION CONTROL PLANT AT (440) 366-2211 WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS SHALL BE RECORDED AND INCLUDE THE PREVENTATIVE ACTION TAKEN TO REMEDY AND A COPY SHALL BE GIVEN TO THE OWNER AND MAINTAINED BY THE OWNER FOR THREE YEARS, OR FROM THE CONCLUSION OF LITIGATION.
- SOILS CONTAMINATED BY PETROLEUM, OR OTHER CHEMICAL SPILLS MUST BE TREATED AND DISPOSED IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY, OR HAZARDOUS WASTE TREATMENT STORAGE, OR DISPOSAL FACILITY (TSD) AT THE CONTRACTORS EXPENSE.

DISTURBED AREA: 0.872 ACRES

(WORK LIMITS EQUAL LIMITS OF DISTURBANCE).
SOIL = PREDOMINANTLY SILTY CLAY & SILTY SAND
PRE CONSTRUCTION C = POST CONSTRUCTION C.

DRAINAGE AREA:

THE MUNICIPAL STORM SYSTEM CARRIES THE FLOW TO THE BLACK RIVER.

GENERAL CONSTRUCTION ACTIVITIES:

THIS PROJECT WILL CONSTRUCT A NEW 4" FORCE MAIN, REPLACE AN EXISTING 4" FORCE MAIN, AND REPLACE AND EXISTING 8" SANITARY WITH A 10" SANITARY ALONG OVERBROOK ROAD.

CONSTRUCTION SEQUENCE

- THE CONTRACTOR SHALL COMPLY WITH ALL OEPA PERMITS AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS. CONTRACTOR SHALL POST NPDES PERMIT AND OTHER PERMITS ON-SITE AND MAINTAIN ON-SITE A COPY OF SWPPP.
- THE CONTRACTOR'S TRAILER MAY HAVE SANITARY FACILITIES AND SHALL HAVE A WATER SOURCE. ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE THROUGHOUT THE CONSTRUCTION, WHICH MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND SHALL BE SERVICED BY A COMMERCIAL OPERATOR. (SEE NOTE 1 UNDER SWPPP GENERAL NOTES).
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NON-SEDIMENT POLLUTION CONTROLS AT THIS SITE, WHICH PREVENT NON-SEDIMENT POLLUTANTS FROM DISCHARGING INTO RUNOFF OR INTO THE GROUND AND MUST DISPOSE OF THEM IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES. IT IS PROHIBITED TO BURN, BURY, OR POUR OUT INTO THE GROUND, DITCH OR INTO A STORM SEWER, SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT, CURING COMPOUND AND OTHER SUCH TOXIC OR HAZARDOUS WASTE. STORAGE TANKS SHALL BE LOCATED IN DIKED AREAS AWAY FROM DRAINAGE CHANNELS AND THE DIKED AREA SHOULD HOLD A VOLUME OF 110% OF THE LARGEST TRUCK, OR TANK. SHOULD THE CONTRACTOR FAIL TO PREVENT NON-SEDIMENT POLLUTION AT THIS SITE, HE MUST IMMEDIATELY REMEDIATE THE SITE TO LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES' APPROVAL ENTIRELY AT HIS OWN EXPENSE. (SEE NOTE 1 UNDER SWPPP GENERAL NOTES).
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM OF ONE SOLID WASTE DISPOSAL RECEPTACLE AND HAVE THIS RECEPTACLE EMPTIED BY A CONTRACT TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE AS NECESSARY. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORM WATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN THE RECEPTACLE. (SEE NOTE 1 UNDER SWPPP GENERAL NOTES).

CONSTRUCTION SEQUENCE (CONT.)

5. ALL CATCH BASINS OR INLETS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED AROUND THEM PRIOR TO DISTURBING THE UPSTREAM DRAINAGE AREA. THE INLET PROTECTION AROUND THESE BASINS OR INLETS SHALL NOT BE REMOVED UNTIL AFTER THE SITE IS STABILIZED.

6. CONSTRUCTION SHALL BE STAGED SUCH THAT LAWN DISTURBANCE IS KEPT TO A MINIMUM.

7. CLEAR AND GRUB.

8. THERE IS THE POTENTIAL TO ENCOUNTER GROUNDWATER IN TRENCHES. GROUNDWATER, STORMWATER AND SEDIMENT BEARING DRAINAGE SHALL BE FILTERED OR PONDED TO ALLOW REMOVAL OF SILT, SEDIMENT, DEBRIS, AND OTHER POLLUTANTS PRIOR TO DISCHARGE FROM THE SITE. THE SETTLED MATERIAL SHALL BE DISPOSED IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL. ALL FILTERED WATER SHALL BE DISCHARGED ONTO STONE AND NOT THE GROUND TO PREVENT EROSION. THERE SHALL BE NO TURBID OR MURKY DISCHARGES TO SURFACE WATERS OF THE STATE RESULTING FROM DEWATERING, OR BY-PASS PUMPING ACTIVITIES. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY DEWATERING INTO A SUMP PIT, DISCHARGE THROUGH A FILTER SOCK, OR BAG OR COMPARABLE PRACTICE APPROVED IN WRITING BY THE CITY PRIOR TO USE.

9. AS A MINIMUM, ALL STOCKPILES SHALL HAVE SILT FENCE PLACED 10' OFF AND ALONG THE BOTTOM FOOTPRINT OF THE FINAL STOCKPILE CONFIGURATION PRIOR TO PLACEMENT OF MATERIAL. IF THE STOCKPILE WILL BE INACTIVE FOR 21 DAYS OR MORE, THEN THE SURFACE SHALL BE SEEDED, OR STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY. THE STOCKPILE CAN BE LOCATED BY THE CONTRACTOR TO BEST FIT HIS MEANS AND METHODS, BUT AT NO TIME SHALL ALLOW SEDIMENT LADEN RUNOFF TO EXIT SITE. SILT FENCE SHALL BE PER ODOT 207, PERIMETER FILTER FABRIC FENCE.

10. INSTALL SANITARY SEWER AND NEW FORCEMAIN. DO NOT CONNECT SERVICES UNTIL PROPOSED MAIN IS ACCEPTED BY THE CITY. REPLACE EXISTING FORCEMAIN.

11. BEGIN GRADING OPERATIONS.

12. STABILIZE WITH GRASS, STONE, SIDEWALK, OR PAVEMENT WITHIN 7 DAYS OF REACHING FINAL GRADE, OR WITHIN 7 DAYS OF LAST ACTIVITY IF IT WILL BE LEFT UNDISTURBED FOR 14 DAYS OR MORE. THE CONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS FROM MIXING WITH RUN-OFF AND LEAVING THE SITE. THE CONTRACTOR SHALL SIZE THE CONCRETE WASHOUT PIT TO HANDLE HIS PROPOSED CONCRETE OPERATIONS AND SHALL MAINTAIN THE PIT SUCH THAT ALL CONCRETE TRUCKS CAN USE IT TO WASHOUT. ALL CURED RESIDUE FROM THE PIT SHALL BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL LOCATE THE WASHOUT PIT ON THE PLANS PRIOR TO HIS CONCRETE OPERATIONS AND THE WASHOUT PIT SHALL BE LOCATED AWAY FORM WATERCOURSES. (SEE NOTE 1 UNDER GENERAL NOTES).

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND SHALL SUPPLY WATER TRUCKS, OR OTHER MEANS, AS NECESSARY, TO CONTROL DUST GENERATED BY CONSTRUCTION ACTIVITIES ON THE SITE TO THE SATISFACTION OF THE OWNER. IF DUST CONTROL SUPPRESSANTS ARE USED, THEN THEY CANNOT BE APPLIED NEAR CATCH BASINS, OR OTHER DRAINAGE WAYS. USED OIL CANNOT BE USED AS A DUST SUPPRESSANT.

14. AT COMPLETION OF CONSTRUCTION AND THE SITE IS SUFFICIENTLY STABILIZED, THE TEMPORARY SEDIMENTATION AND EROSION CONTROL ITEMS SHALL BE REMOVED. THE CONTRACTOR SHALL THOROUGHLY CLEAN CONDUITS AND MISCELLANEOUS APPURTENANT STRUCTURES TO THE SATISFACTION OF THE OWNER. ALL SEDIMENT SHALL BE REMOVED FROM THE STORM SYSTEM, DITCHES, SWALES OR OTHER DRAINAGE COURSES AND DISPOSED OF AT A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SEDIMENT AND EROSION CONTROL ITEMS AT ANY OFF-SITE BORROW OR SPOIL AREAS REQUIRED FOR THIS PROJECT.

16. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.

17. LUMP SUM PAYMENT FOR EROSION AND SEDIMENT CONTROL SHALL INCLUDE THE INSTALLATION, MAINTENANCE, INSPECTION, AND REMOVAL UPON COMPLETION OR WHEN THE UPSTREAM DRAINAGE AREAS BECOME STABILIZED. IT INCLUDES THE FOLLOWING ITEMS: ROCK CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, STAGING & PARKING AREA, NON-POLLUTION CONTROLS, SANDBAG BARRIER, WASHOUT PIT EROSION CONTROL MATTING, DUST CONTROL, GROUNDWATER CONTROL, PERMANENT SEEDING AND TEMPORARY SEEDING (IF REQUIRED).

18. CONTRACTOR SHALL DISPLAY AND MAINTAIN A COPY OF THE SWPPP AND INSPECTION LOGS ON SITE AT ALL TIMES.

INSPECTION

TEMPORARY AND PERMANENT SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF A 0.5 INCHES OR GREATER RAINFALL AND REESTABLISHED AS NECESSARY. INSPECTION SHALL BE LOGGED AND THE REPORT KEPT ON SITE FOR THE OHIO EPA.

A WRITTEN RECORD DOCUMENTING THE RESULTS OF THESE INSPECTIONS MUST BE MAINTAINED WITH THE SWPPP. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWPPP. FURTHERMORE, THE CONTRACTOR SHALL ENSURE THAT THE MEASURES ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING. WHITMAN BLVD, CANTERBURY ROAD, STAFFORD DRIVE, HARTFORD DRIVE, AND NEIGHBORING ROADS SHALL BE INSPECTED DAILY AND CLEANED OF SEDIMENT AND DEBRIS.

IF UNFORESEEN ENVIRONMENTAL CONDITIONS ARE ENCOUNTERED, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BECOME NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE TO AMEND THE SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT COULD DISCHARGE POLLUTANTS TO "THE WATERS" AT THE CONSTRUCTION SITE. THE REVISION TO THE SWPPP MUST BE COMPLETED AS SOON AS PRACTICAL AND BEFORE THE NEXT STORM EVENT. ADDITIONAL EROSION CONTROL MEASURES MAY ALSO BE REQUESTED BY THE OWNER, LOCAL AUTHORITY, PROJECT ENGINEER, SOIL CONSERVATION SERVICE REPRESENTATIVE OR OEPA AT ANYTIME. SUCH REQUEST SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

SHOULD AN ACCIDENTAL SPILL OCCUR, IMMEDIATE ACTION SHALL BE UNDERTAKEN BY THE GENERAL CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. AS SOON AS POSSIBLE, ALL SPILLS >25 GALLONS SHALL BE REPORTED TO THE APPROPRIATE STATE AND LOCAL AGENCIES. THIS SHALL INCLUDE THE OHIO EPA AT 800-282-9378, THE LOCAL FIRE DEPARTMENT, THE NATIONAL RESPONSE CENTER AT 800-424-8802 AND THE LORAIN COUNTY OFFICE OF EMERGENCY MANAGEMENT & HOMELAND SECURITY (440-329-5117).

MAINTENANCE

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED AND AS SOON AS POSSIBLE TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL COMPLY WITH THE MAINTENANCE REQUIREMENTS FOR THE PROPOSED EROSION CONTROLS.

STABILIZATION

PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART III G.2.b OF THE OEPA AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES, AS STATED BELOW:

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY DISTURBED AREAS WITHIN 50 FT. OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FT. OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREA WITHIN 50 FT. OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

NETTING AND WOOD CELLULOSE SHALL BE USED FOR MULCH ONLY.

PERMANENT SEEDING

PERMANENT SEED MIXTURE SHALL BE ODOT 659.09-1, CLASS 1, UNLESS OTHERWISE NOTED.

IF BROADCAST SEEDING, SEED BETWEEN AUGUST 15 TO OCTOBER 30. IF NECESSARY TO SEED BEFORE AUGUST 15, BUT AFTER MARCH 1 INCREASE THE SEEDING RATES BY 5 PERCENT.

BETWEEN MARCH 1 AND OCTOBER 30, THE CONTRACTOR MAY USE HYDROSEEDING, WHICH APPLIES THE MULCH, SEED, WATER, AND COMMERCIAL FERTILIZER IN THE SAME OPERATION.

BETWEEN NOVEMBER 1 AND FEBRUARY 29, THE CONTRACTOR SHOULD APPLY TEMPORARY, OR DORMANT SEED AND MULCH.

THE GERMINATION RATE AS FOLLOWS:

SPECIES	MINIMUM PERCENT	HIGH QUALITY PERCENT
KENTUCKY BLUEGRASS	80	85
FINE FESCUE	85	90
PERENNIAL RYEGRASS	85	90
ANNUAL RYEGRASS	85	90
TALL FESCUE	85	90
CREeping RED FESCUE	85	90

THE MINIMUM SEED PURITY IS 98%.

PLACE 4 INCHES OF TOPSOIL ON AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED IN THE PLANS.

SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED A HEALTHY STAND OF GRASS, WITH AT LEAST 80% UNIFORM DENSITY COVERAGE, THEN THE AREA SHALL BE RESEDED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

FOR TEMPORARY SEED SPECIFICATION SEE DETAIL SHEET CSWP D1.

SWPPP LEGEND

- W PROPOSED WATER MAIN
- EXISTING WATER LINE
- PROPOSED HYDRANT
- EXISTING HYDRANT
- PROPOSED WATER VALVE
- EXISTING WATER VALVE
- PROPOSED REDUCER
- PLUG, OR CAP
- PROPOSED MANHOLE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING CLEANOUT
- ST PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING STORM MANHOLE
- CB EX. CATCH BASINS, INLET
- SF SILT FENCE, OR FILTREXX®
- WORK LIMITS
- RUNOFF FLOW DIRECTION
- EXISTING FEATURE TO BE REMOVED
- INLET PROTECTION



PROJECT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE
131 COURT STREET
ELYRIA, OH

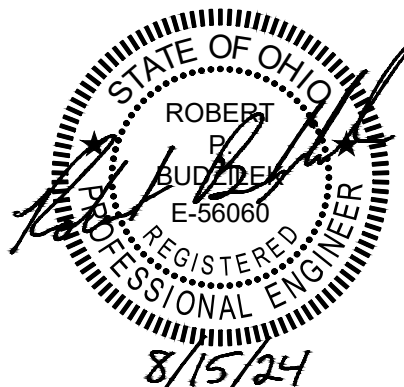
CONSULTANT

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CONSULTANTS

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REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	08/15/2024	BID DOCUMENTS

PROJECT NUMBER

60332065

SHEET TITLE

SWPPP GENERAL NOTES

SHEET NUMBER

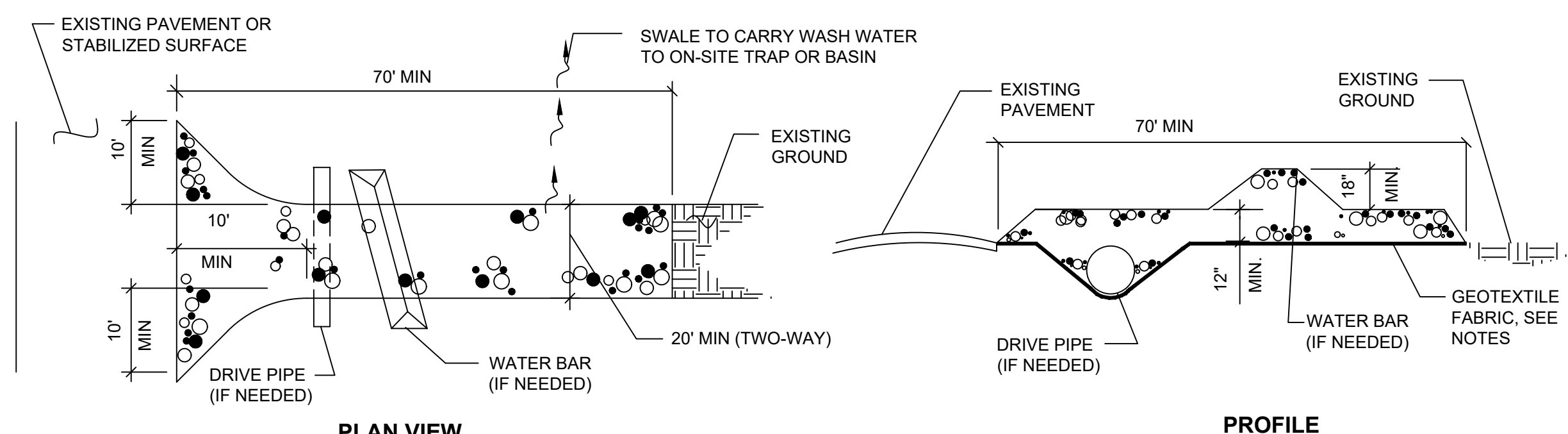
SWPPP 3

STABILIZED CONSTRUCTION ENTRANCE

1. THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS PRACTICAL BEFORE GRADING, OR WITHIN 7 DAYS OF FIRST GRUBBING.
2. THE AGGREGATE USED SHALL BE ODOT NO. 2 STONE OR RECYCLED CONCRETE EQUIVALENT. PLACE THE GRAVEL FLUSH TO THE EXISTING ADJACENT PAVEMENT, SMOOTH IT, AND LEVEL IT AS REQUIRED.
3. THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS, BUT NOT LESS THAN 70 FEET.
4. THE THICKNESS OF THE ENTRANCE SHALL NOT BE LESS THAN 12-INCHES.
5. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS AND IN ANY CASE SHALL NOT BE LESS THAN 14 FEET WIDE FOR ONE-WAY TRAFFIC AND 20 FEET WIDE FOR TWO WAY TRAFFIC.
6. A GEOTEXTILE FABRIC SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET ODOT 712.09, TYPE B SPECIFICATIONS.
7. A DRIVE PIPE SHALL BE CONSTRUCTED UNDER THE ENTRANCE, IF NEEDED, TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE, OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE, IF NEEDED, TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. DRIVING OVER ROCK IN CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY MUD ON THE VEHICLE INCLUDING WHEELS BY WASHING, OR OTHER APPROVED MEANS, PRIOR TO THE VEHICLE LEAVING THE SITE. WASH WATER MUST BE PROVIDED BY THE CONTRACTOR AND CARRIED AWAY FROM THE ENTRANCE TO AN ON-SITE SETTLING AREA TO REMOVE THE SEDIMENT, OR DISPOSE OFFSITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
10. CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

INSPECTION AND MAINTENANCE

1. CONSTRUCTION ENTRANCE SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT AND AT LEAST DAILY DURING A PROLONGED RAINFALL.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY(S). THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. WHEN THE STONE IN THE ENTRANCE LOOSES ITS SHAPE, BECOMES LESS THAN 12" DEEP, WHEN THE STONE BECOMES SEDIMENT-LADEN OR HARD PACKED, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE STONE AND SEDIMENT AND REPLACE THE ENTRANCE WITH 12" OF NEW STONE. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
3. REMOVED SEDIMENT AND STONE SHALL BE DISPOSED BY THE CONTRACTOR IN AN AREA PREVIOUSLY APPROVED BY THE LOCAL AUTHORITIES. AT NO TIME SHALL THE SEDIMENT BE PLACED IN AN AREA THAT WILL CONTRIBUTE SEDIMENT TO OFF-SITE AND IS NOT PERMANENTLY STABLE.



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

TEMPORARY SEEDING SPECIFICATIONS

SEEDING DATES	TYPE	APPLICATION RATE
NOVEMBER 1 TO FEBRUARY 29	ANNUAL RYEGRASS (ODOT 659.09-1, CLASS 7 TEMPORARY EROSION CONTROL MIXTURE) DORMANT SEEDING MULCHING (PER ODOT 659.15)	2.02 (LB./1000 SF)

THE MINIMUM SEED PURITY IS 98%.

PLACE 4 INCHES OF TOPSOIL ON AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED IN THE PLANS.

SITE PREPARATION: PRIOR TO PLACEMENT THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

SOIL AMENDMENTS: TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED PER SEED SUPPLIER RECOMMENDATIONS.

SEEDING METHOD: SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CUTTIPACKER OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CUTTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

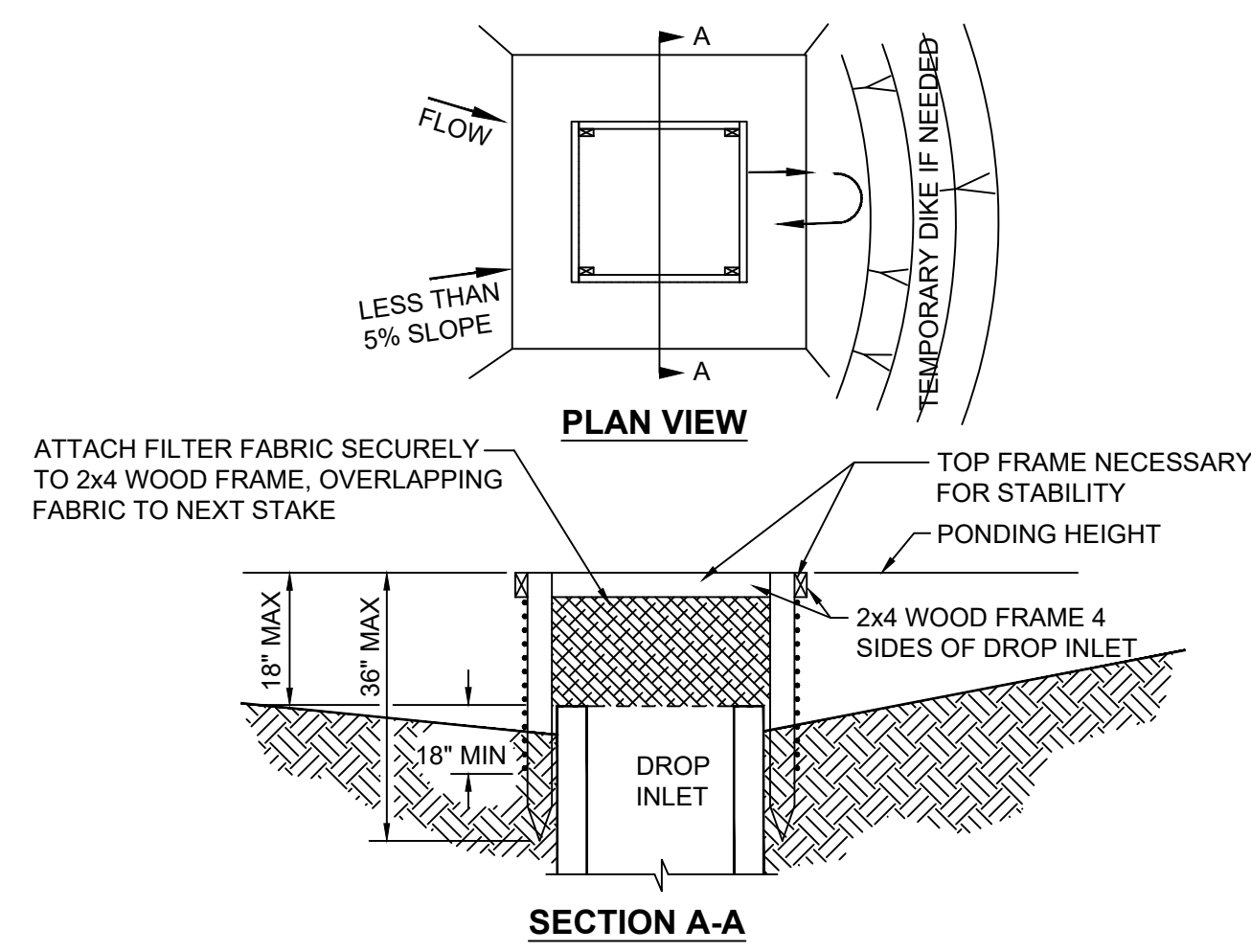
SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED A HEALTHY STAND OF GRASS, WITH AT LEAST 80% UNIFORM DENSITY COVERAGE, THEN THE AREA SHALL BE RESEED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

INSPECTION AND MAINTENANCE

INSPECT AND MAINTAIN THE TEMPORARY SEED WEEKLY AND AFTER EACH RAIN AND PROMPTLY MAKE REPAIRS TO ALL BARE AREAS AS NEEDED. RESEED AS NECESSARY TO ESTABLISH AN 80% UNIFORM GROWTH OVER THE ENTIRE AREA.

THE GERMINATION RATE IS AS FOLLOWS:

SPECIES	MINIMUM PERCENT	HIGH QUALITY PERCENT
ANNUAL RYEGRASS	85	90



INSPECTION AND MAINTENANCE

1. INSPECT THE INLET PROTECTION WEEKLY AND AFTER EACH RAIN EVENT. AREAS WHERE THERE IS ACTIVE TRAFFIC SHALL BE INSPECTED DAILY. PROMPTLY MAKE REPAIRS AS NEEDED TO ENSURE THE PRACTICE IS PERFORMING AS INTENDED.
2. SEDIMENT SHALL BE REMOVED AFTER EACH SIGNIFICANT STORM (1/2" IN 24 HOURS) TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN, OR WHEN ACCUMULATION IS ONE HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET.
3. THE REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

GEOTEXTILE INLET SEDIMENT BARRIER

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS, OR BEFORE THE INLET BECOMES FUNCTIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 INCH BY 4 INCH CONSTRUCTION GRADE LUMBER, LENGTH 3 FEET MINIMUM AND SPACED 3 FEET MAXIMUM. THE 2 INCH BY 4 INCH POSTS SHALL BE DRIVEN 18 INCHES INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2 INCH BY 4 INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN IN THE SILT FENCE DETAIL. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE SHALL BE PER ODOT 712.09, TYPE C, HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

GEOTEXTILE INLET PROTECTION

N.T.S.

WINTER STABILIZATION

IF THE PROJECT EXTENDS TO THE WINTER MONTHS, THE SITE SHALL BE STABILIZED WITH TEMPORARY SEED, STONE OR TEMPORARY PAVEMENT UNTIL THE SEASON ALLOWS COMPLETION OF THE CONTRACT. THE CONTRACTOR AND CITY SHALL EVALUATE THE PROJECT ON OCTOBER 1 TO SEE IF IT CAN BE COMPLETED IN THE CONSTRUCTION SEASON.

GRADING AND STABILIZATION ACTIVITY LOG

AREA DESCRIPTION	DATE AREA FIRST DISTURBED	DATE OF NO WORK IN AREA	DATE OF REACHING FINAL GRADE	BEGIN DATE OF STABILIZATION IN AREA

1. ALL EARTHWORK ACTIVITIES MUST BE DOCUMENTED IN THIS TABLE.
2. TEMPORARY SEDIMENT AND EROSION CONTROLS SHALL BE PLACED WITHIN 7 DAYS OF LAST ACTIVITY IN AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR MORE.
3. AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE.



PROJECT OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
ELYRIA, OH

CLIENT
CITY OF ELYRIA
DEPARTMENT OF PUBLIC SERVICE
131 COURT STREET
ELYRIA, OH

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REGISTRATION



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I/R	DATE	DESCRIPTION

PROJECT NUMBER
60332065
SHEET TITLE
SWPPP DETAILS I
SHEET NUMBER
SWPPP 4

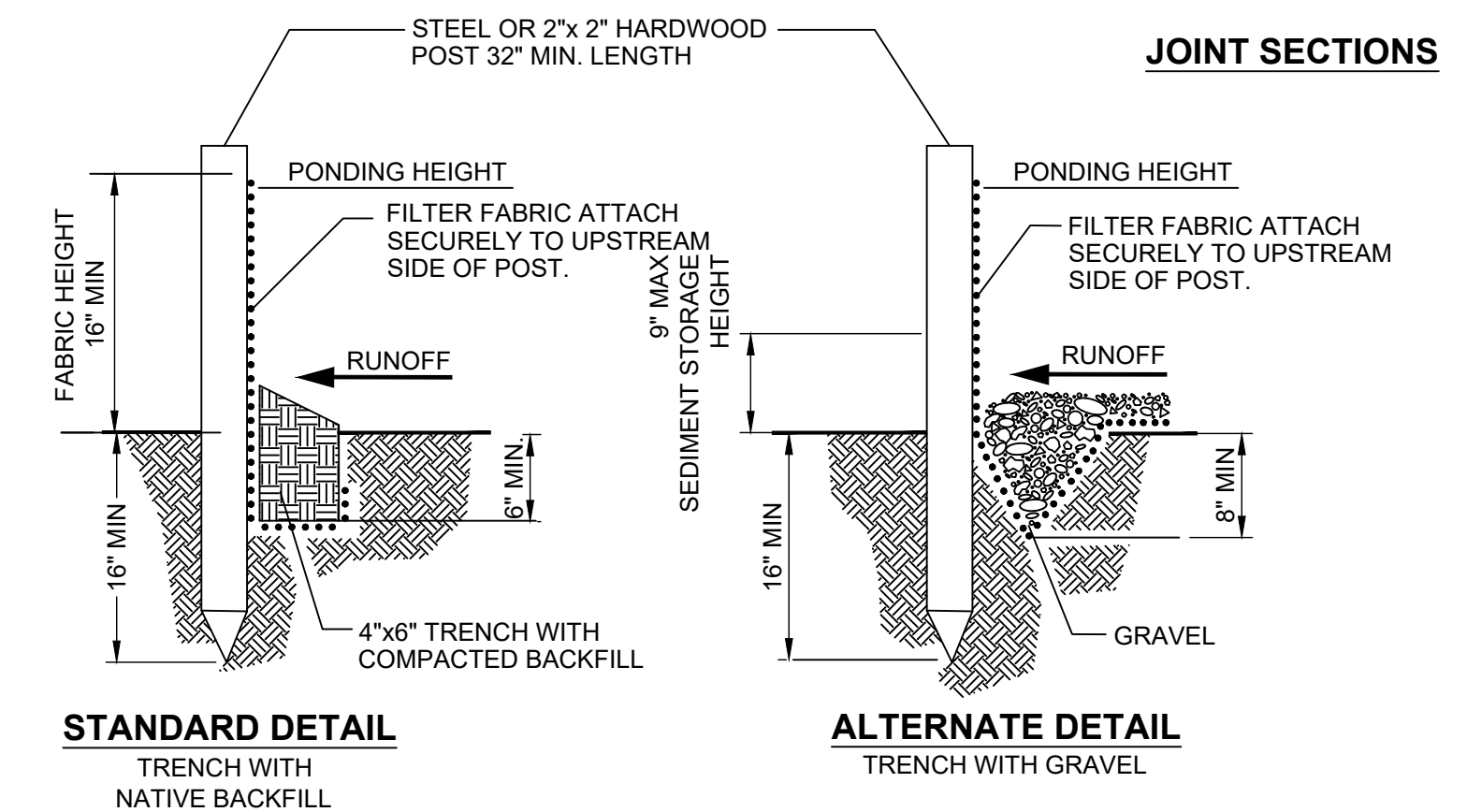
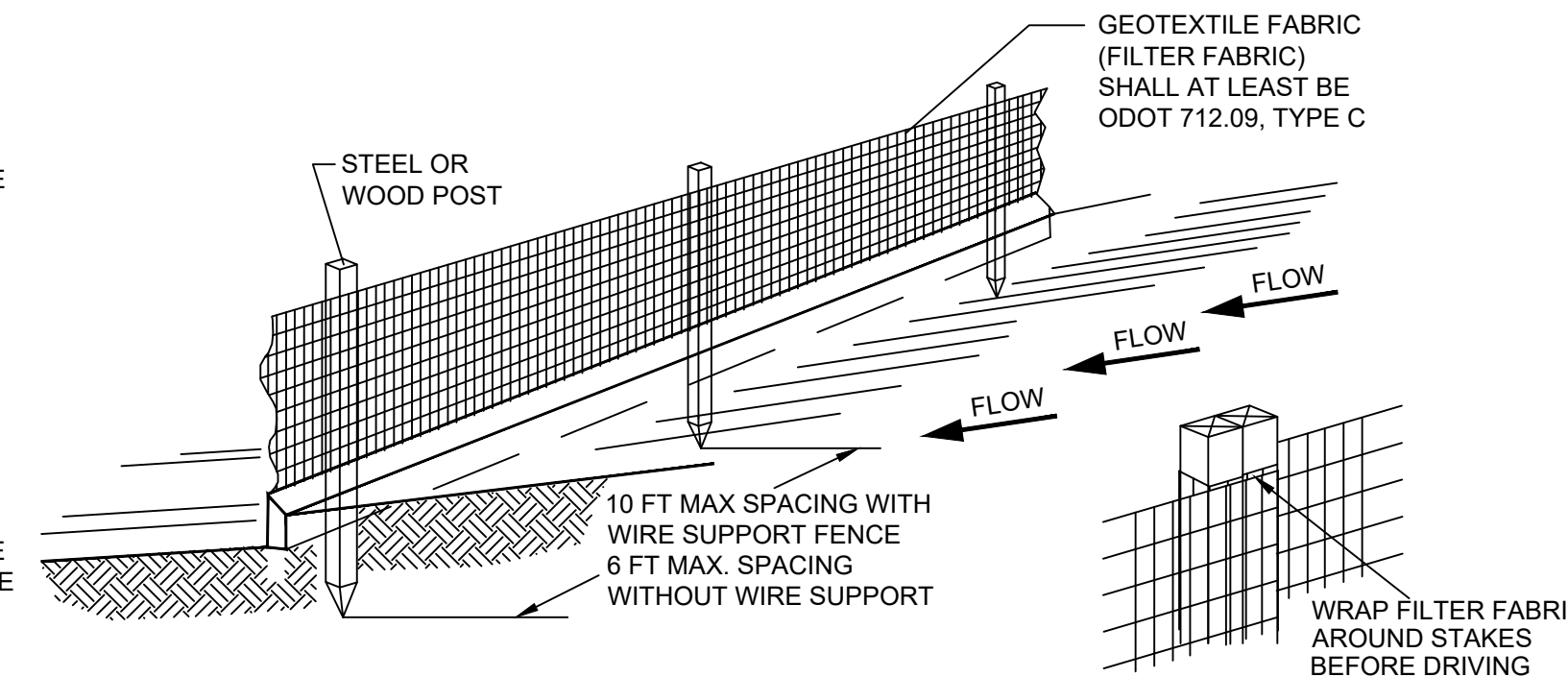
SILT FENCE

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE DISTURBANCE BEGINS OR WITHIN 7 DAYS OF FIRST GRUBBING. SILT FENCE IS NOT PERMITTED TO BE USED FOR CONTROLLING CONCENTRATED SURFACE WATER FLOW (ONLY SHEET FLOW).
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY 2±, OR AS REQUIRED SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RESTORED WITHIN 7 DAYS FROM INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. STORAGE HEIGHT SHALL NOT EXCEED HALF OF THE TOTAL HEIGHT ABOVE THE ORIGINAL GROUND.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL BE ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS.
- A WIRE MESH SUPPORTED FENCE SHALL BE USED WITH STANDARD STRENGTH FILTER FABRIC AND FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2-INCHES AND SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE. THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED, OR WIRED TO THE FENCE AND 8-INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 10 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME. SILT FENCES ARE TO BE USED ONLY IN SITUATIONS IN WHICH SHEET FLOW IS EXPECTED, BUT NOT IN DRAINAGE DITCHES, CHANNELS, OR RAVINES IN WHICH CHANNELIZED FLOW OCCURS.

INSPECTION AND MAINTENANCE

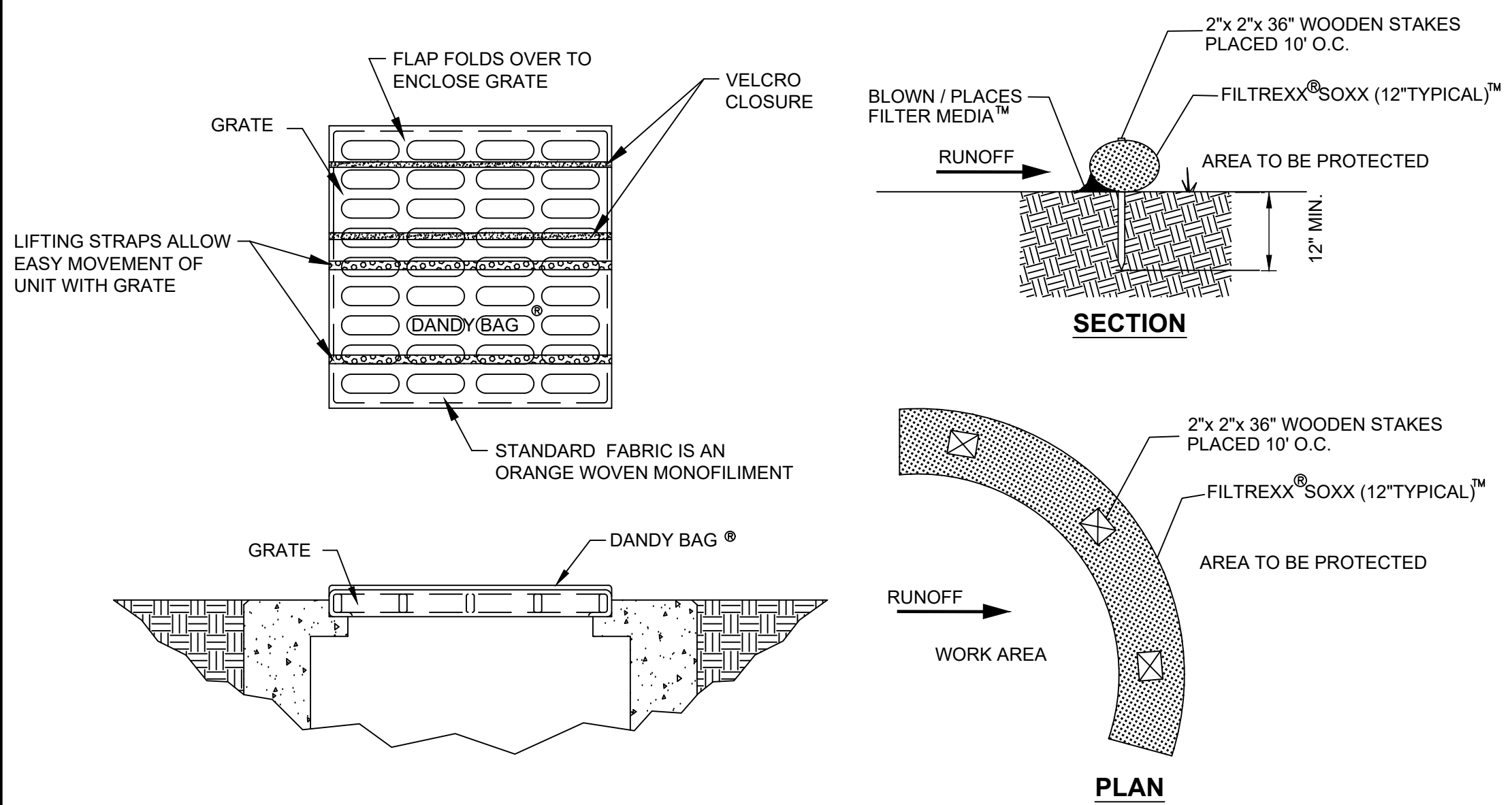
- SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN IT REACHES 1/2± THE HEIGHT OF THE SILT FENCE.
- THE FABRIC SHALL BE REPLACED WHEN IT IS TORN, HAS HOLES, DECOMPOSES OR IS NO LONGER DETAINING WATER FOR SEDIMENTATION AND THE BARRIER IS STILL REQUIRED. THE POSTS SHALL BE REPLACED IF THEY ARE BENT OR BROKEN. FENCES THAT ARE KNOCKED DOWN OR HAVE JOINTS THAT ARE SEPARATED OR ARE BEING UNDERCUT BY FLOWS SHALL BE REPLACED IMMEDIATELY.
- SEDIMENT REMOVED SHALL BE DISPOSED IN AN AREA PREVIOUSLY APPROVED BY THE LOCAL AUTHORITIES AND OWNER. AT NO TIME SHALL SEDIMENT BE PLACED IN AN AREA THAT WILL CONTRIBUTE SEDIMENT OFF-SITE AND IS NOT PERMANENTLY STABLE.

SILT FENCE MAXIMUM DRAINAGE AREA BASED ON SLOPE LENGTH		
SLOPE		SLOPE LENGTH (FT)
0% - 2%	FLATTER THAN 50:1	250
2% - 10%	50:1 - 10:1	125
10% - 20%	10:1 - 5:1	100
20% - 33%	5:1 - 3:1	75
33% - 50%	3:1 - 2:1	50
> 50%	> 2:1	25



SILT FENCE

N.T.S.

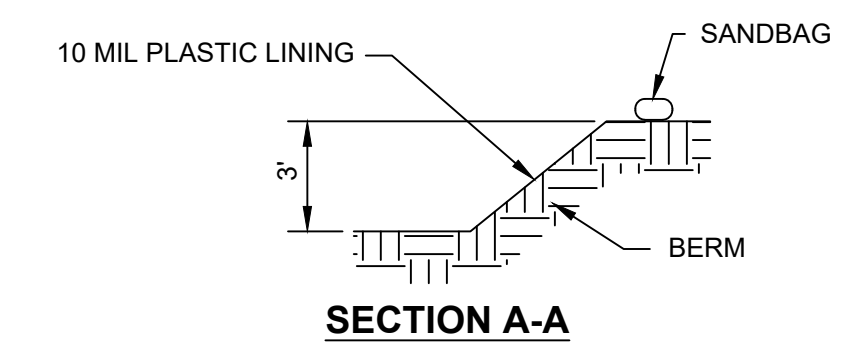
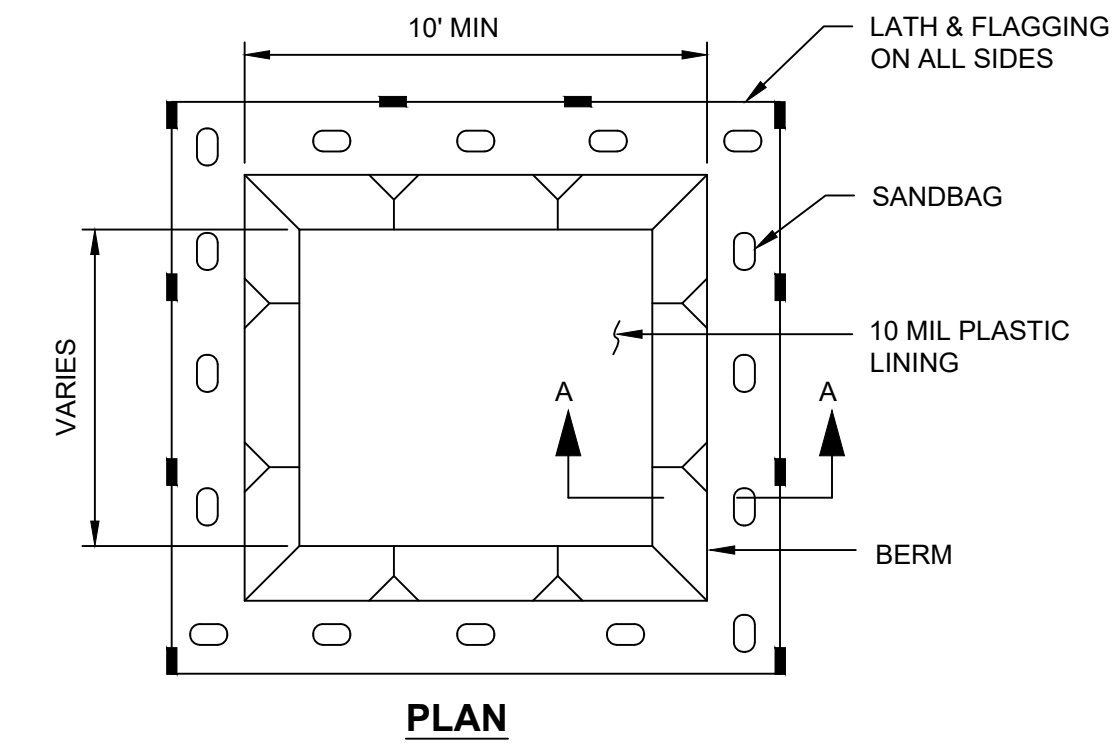


INSPECTION AND MAINTENANCE

- INSTALLATION:** THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.
- MAINTENANCE:** REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DANDY BAG

N.T.S.



- TEMPORARY CONCRETE WASHOUT FACILITY (BELOW GROUND)**
- TEMPORARY CONCRETE WASHOUT FACILITIES (TYPE BELOW GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAIL, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET. THE QUANTITY AND VOLUME SHOULD BE SUFFICIENT TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
 - PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

INSPECTION AND MAINTENANCE
 THE CONTRACTOR SHALL INSPECT AND REPAIR WASHOUT FACILITY WHEN IT LOSES ITS SHAPE, OR BECOMES PERMEABLE. ALWAYS MAINTAIN WASHOUT FACILITY SUCH THAT IT HANDLES ALL CONCRETE OPERATIONS AND REMOVE WASTE CONCRETE AND CAPTURED DEBRIS AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATION.

CONCRETE WASHOUT PIT (TYPE BELOW GRADE)

N.T.S.



PROJECT

OVERBROOK PUMP STATION II DESIGN

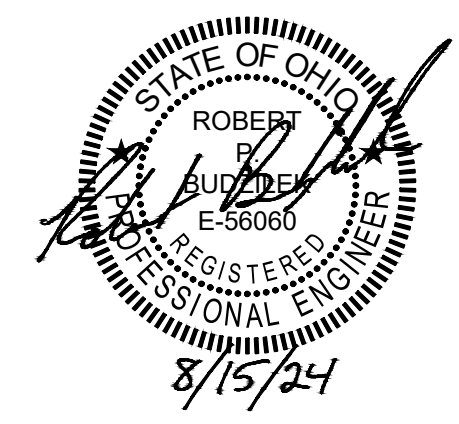
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SHEET TITLE
 SWPPP DETAILS II

SHEET NUMBER
 SWPPP 5

SANITARY SEWER TRENCH CONSTRUCTION AND SPECIFICATIONS

TRENCH CONSTRUCTION
ALL TRENCHES SHALL BE EXCAVATED ON THE ALIGNMENT AND TO THE ELEVATIONS AS INDICATED ON THE APPROVED DRAWINGS. ANY FIELD REVISIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE CITY ENGINEER.

WHERE WORK IS NEAR UTILITY ITEMS THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY 48 HOURS IN ADVANCE OF BEGINNING ANY EXCAVATION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE CITY OF ELYRIA 72 HOURS IN ADVANCE OF BEGINNING ANY EXCAVATION.

TRENCH BOTTOM
THE SOIL SURFACE AT THE TRENCH BOTTOM SHALL BE FREE OF ANY PROTRUSIONS WHICH MAY CAUSE POINT LOADING ON ANY PORTION OF THE PIPE OR PIPE BELL, AND SHALL PROVIDE A FIRM, STABLE AND UNIFORM SUPPORT FOR PIPE.

WHEN AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED IT MUST BE STABILIZED. ANY SPECIAL FOUNDATION WORK REQUIRED SHALL BE CONSIDERED EXTRA WORK SUBJECT TO EXTRA PAYMENT.

OVER EXCAVATION SHALL BE FILLED WITH AN APPROVED EMBEDMENT MATERIAL AND COMPACTED TO A DENSITY EQUAL TO THAT OF THE NATIVE SOIL AT NO EXPENSE TO THE CITY.

ROCKS, HARD PAN, COBBLES, BOULDERS OR STONES LARGER THAN 1-1/2" SHALL BE REMOVED FROM THE TRENCH BOTTOM TO PERMIT A MINIMUM BEDDING THICKNESS OF 6 INCHES UNDER THE PIPE WHEN THE BOTTOM OF THE TRENCH IS IN BEDROCK AND 12 INCHES UNDER THE PIPE WHEN THE BOTTOM OF THE TRENCH IS IN LOOSE SILTS AND SANDS.

EMBEDMENT MATERIALS
EMBEDMENT MATERIAL SHALL BE PLACED IN 6" LIFTS AND COMPACTED EITHER BY HAND OR MECHANICAL MEANS. SEE DETAIL.

IN USING COMPACTION EQUIPMENT, AVOID CONTACT WITH THE PIPE AND DO NOT COMPACT DIRECTLY OVER THE PIPE UNTIL SUFFICIENT BACKFILL HAS BEEN PLACED OVER THE PIPE TO AVOID DAMAGE TO THE PIPE.

BEDDING
BEDDING SHALL BE USED TO BRING THE TRENCH BOTTOM TO GRADE AND SHALL PROVIDE UNIFORM SUPPORT UNDER THE PIPE. BLOCKING SHALL NOT BE USED. BELL HOLES AT EACH JOINT SHALL BE PROVIDED TO PERMIT JOINT ASSEMBLY WHILE PROVIDING UNIFORM PIPE SUPPORT. BEDDING FOR THE 60-INCH TO 78-INCH FRPMP PIPE SHALL BE PER ASTM D3839, FOR THE DUAL 42-INCH DUCTILE IRON PER AWWA C600 AND FOR THE 4-INCH TO 42-INCH PVC PER ASTM D2321.

HAUNCHING
THE MOST IMPORTANT FACTOR AFFECTING THE PIPE PERFORMANCE AND DEFLECTION IS THE PLACEMENT OF THE HAUNCHING MATERIAL. THE HAUNCHING MATERIAL SHALL BE PLACED AND CONSOLIDATED AVOIDING BOTH VERTICAL AND LATERAL DISPLACEMENT OF THE PIPE FROM PROPER ALIGNMENT.

INITIAL BACKFILL
LITTLE OR NO TAMPING OF THE INITIAL BACKFILL DIRECTLY OVER THE TOP OF THE PIPE TO A POINT 12" ABOVE THE PIPE SHALL BE PERMITTED. FINAL BACKFILL SHALL BE COMPACTED TO AN APPROVED DENSITY EQUAL TO ADJOINING SOIL MATERIALS.

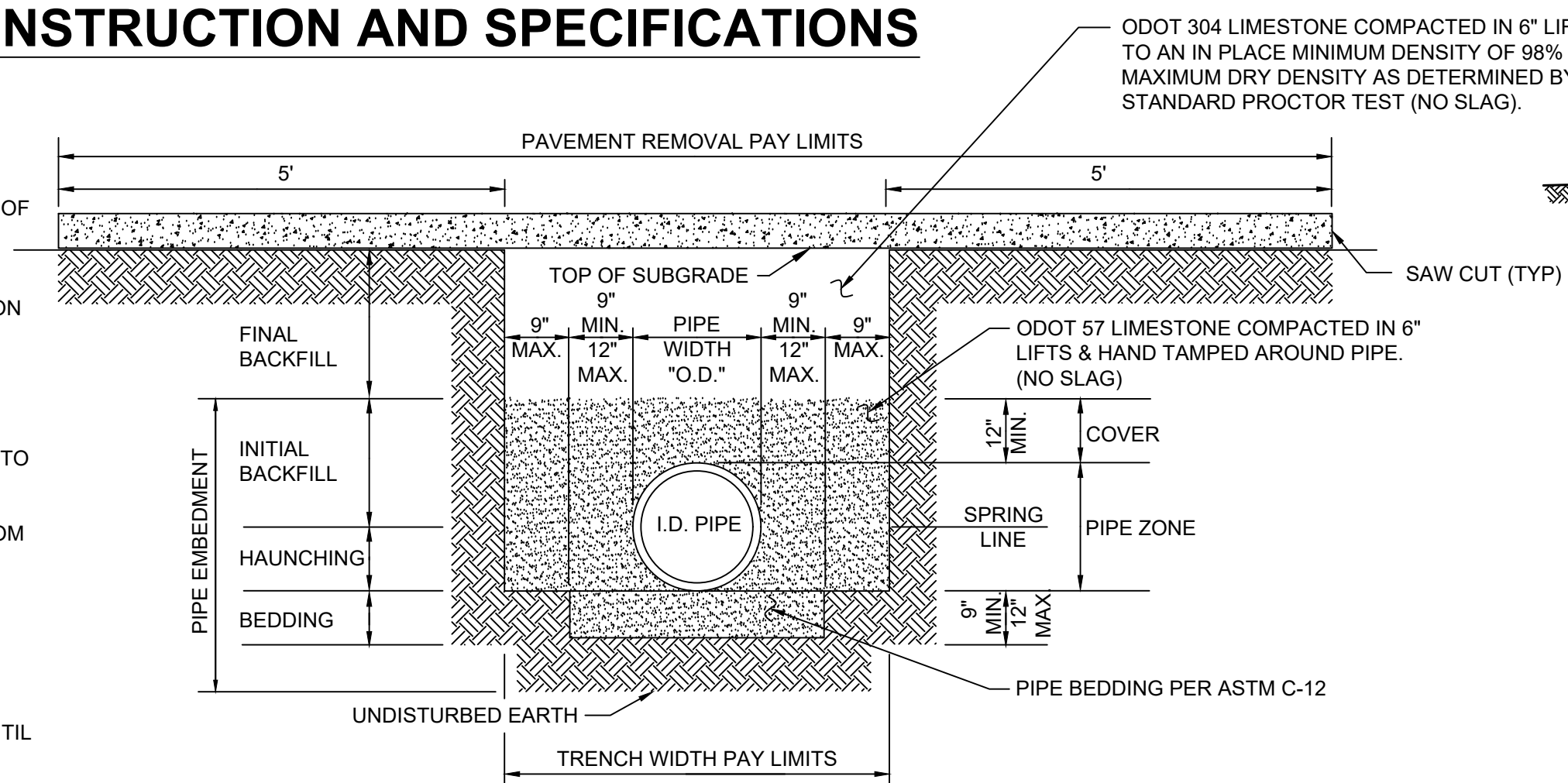
LAYING, UNLOADING AND STORING PROCEDURE
PER MANUFACTURER RECOMMENDATIONS.

NO CURVED ALIGNMENTS SHALL BE USED.

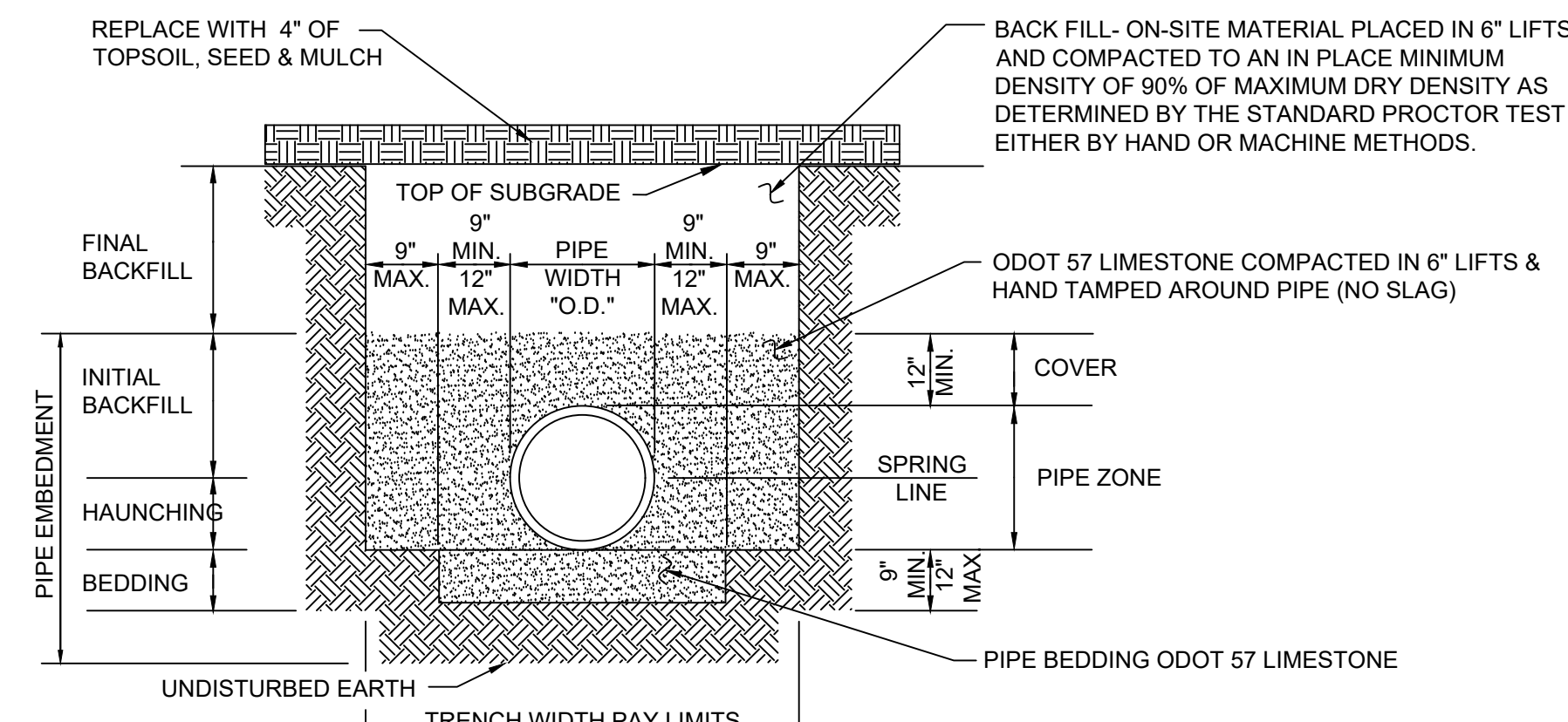
FINAL BACKFILL
THE FINAL BACKFILL MATERIAL MUST NOT CONTAIN BOULDERS, FOREIGN CLUMPS OF DIRT OR RUBBLE, FROZEN OR ORGANIC MATTER. PREMIUM BACKFILL TO BE PLACED IN ALL TRENCHES UNDER PAVEMENT, DRIVE AREAS, OR SIDEWALKS AND EXTEND 5' BEYOND THE PAVEMENT, DRIVE EDGE OR SIDEWALK ON EITHER SIDE. PREMIUM BACKFILL SHALL BE ODOT 304 LESTONE. SPECIAL BACKFILL SHALL BE PLACED WITH APPROVED COMPACTION. IN LAWN OR OPEN AREAS, FREE OF PROPOSED IMPROVEMENTS, THE EXCAVATED MATERIAL OF ACCEPTABLE NATURE MAY BE USED AS BACKFILL.

ALL PVC PIPE MUST HAVE 48 INCHES OF COVER BEFORE BEFORE HYDROHAMMER OR IMPACTOR TYPES OF COMPACTORS MAY BE USED OVER THE PIPE. THE USE OF SUCH COMPACTORS SHALL REQUIRE THAT THE EMBEDMENT WAS PLACED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR FOR AREAS NOT IN PAVEMENT AND AT LEAST 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR FOR AREAS UNDER PAVEMENT.

USE OF RECYCLED MATERIAL
RECYCLED 304 WILL BE PERMITTED w/ CITY APPROVAL FOR USE IN SEWER TRENCHES UP TO WITHIN 3 FEET FROM THE TOP OF PAVEMENT. RECYCLED 304 MAY NOT BE USED IN WATERLINE TRENCHES.



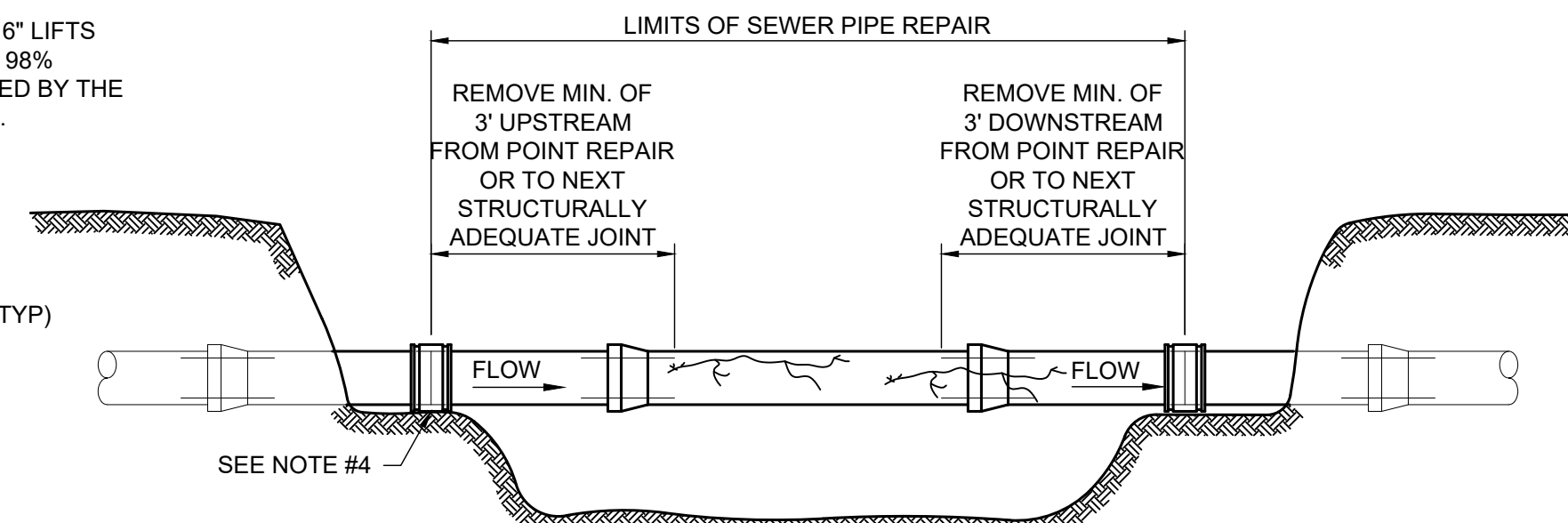
TRENCH UNDER PAVEMENT



TRENCH IN LAWN AREA

TYPICAL SEWER TRENCH DETAIL

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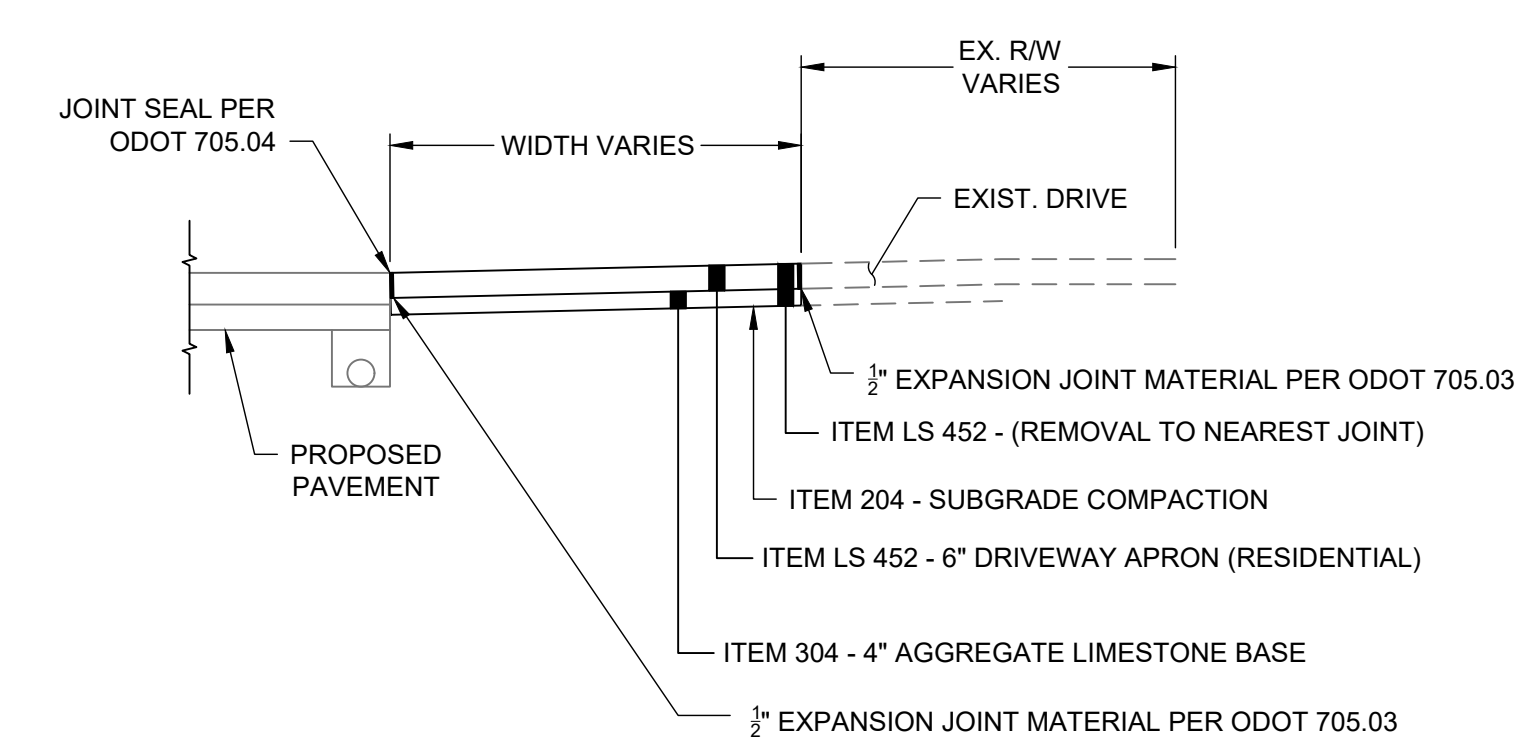


NOTES:

- BEDDING AND BACKFILL IN ACCORDANCE WITH CMSC ITEM 901 (SEE AA-S149 AND AA-S151). OPEN CUT REPAIRS WITHIN RIGHT OF WAY OR PAVEMENT SHALL USE COMPACTED GRANULAR BACKFILL, CMS ITEM 912.
- CONTRACTOR SHALL ARRANGE FOR ACCESS TO POINT REPAIR LOCATION AND WORK WITHIN EXISTING EASEMENT.
- CONTRACTOR SHALL VERIFY LOCATION AND LENGTH OF POINT REPAIR USING CCTV TAPES AND LOGS AND FIELD INVESTIGATIONS. THE UNIT PRICE OF POINT REPAIR SHALL INCLUDE ALL REMOVALS, ACTUAL REQUIRED LENGTH AT POINT REPAIR, AND ALL RESTORATION WORK. POINT REPAIR STATIONS SHOWN ON THE PLANS ARE APPROXIMATE.
- PLASTIC TO PLASTIC REPAIRS SHALL REQUIRE A HARD FITTING. FOR ALL OTHER PIPE MATERIALS THE FITTINGS SHALL BE FERROUS COUPLINGS SERIES #5000 OR APPROVED EQUAL.
- CONCRETE ENCASEMENT SHALL NOT BE USED ON FLEXIBLE PIPE POINT REPAIRS UNLESS THE ENTIRE SEWER SEGMENT WAS PREVIOUSLY CONCRETE ENCASED.

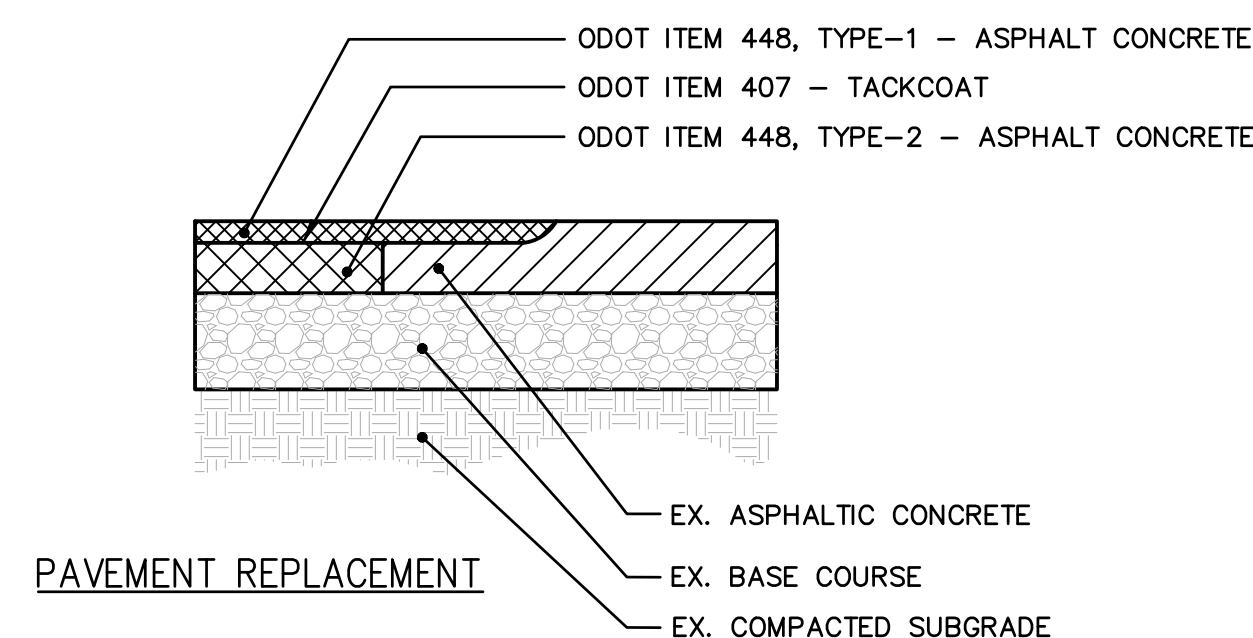
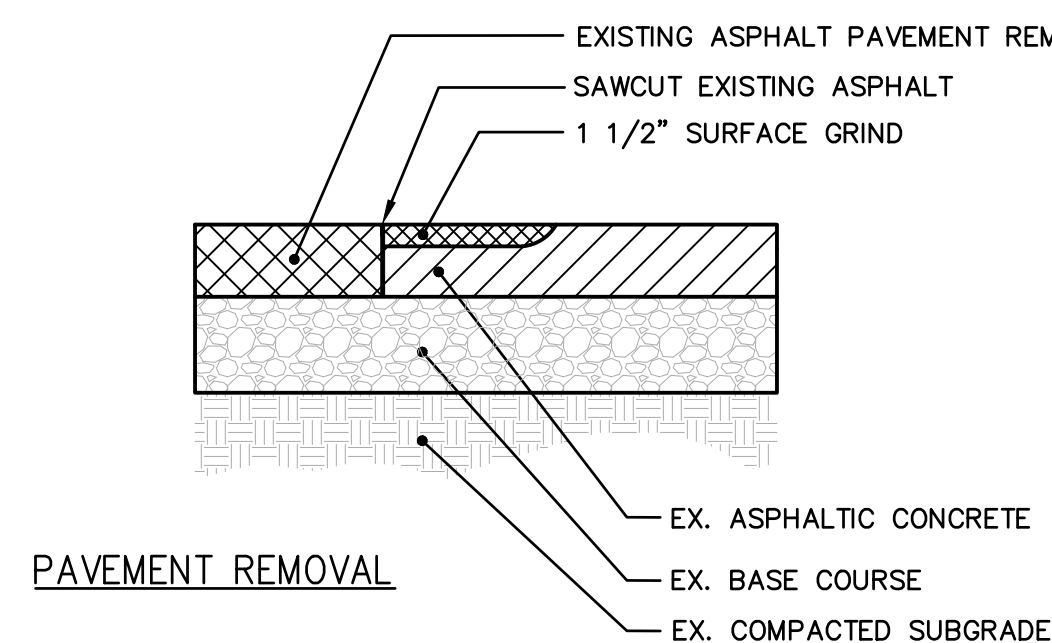
OPEN CUT POINT REPAIR DETAIL

N.T.S.



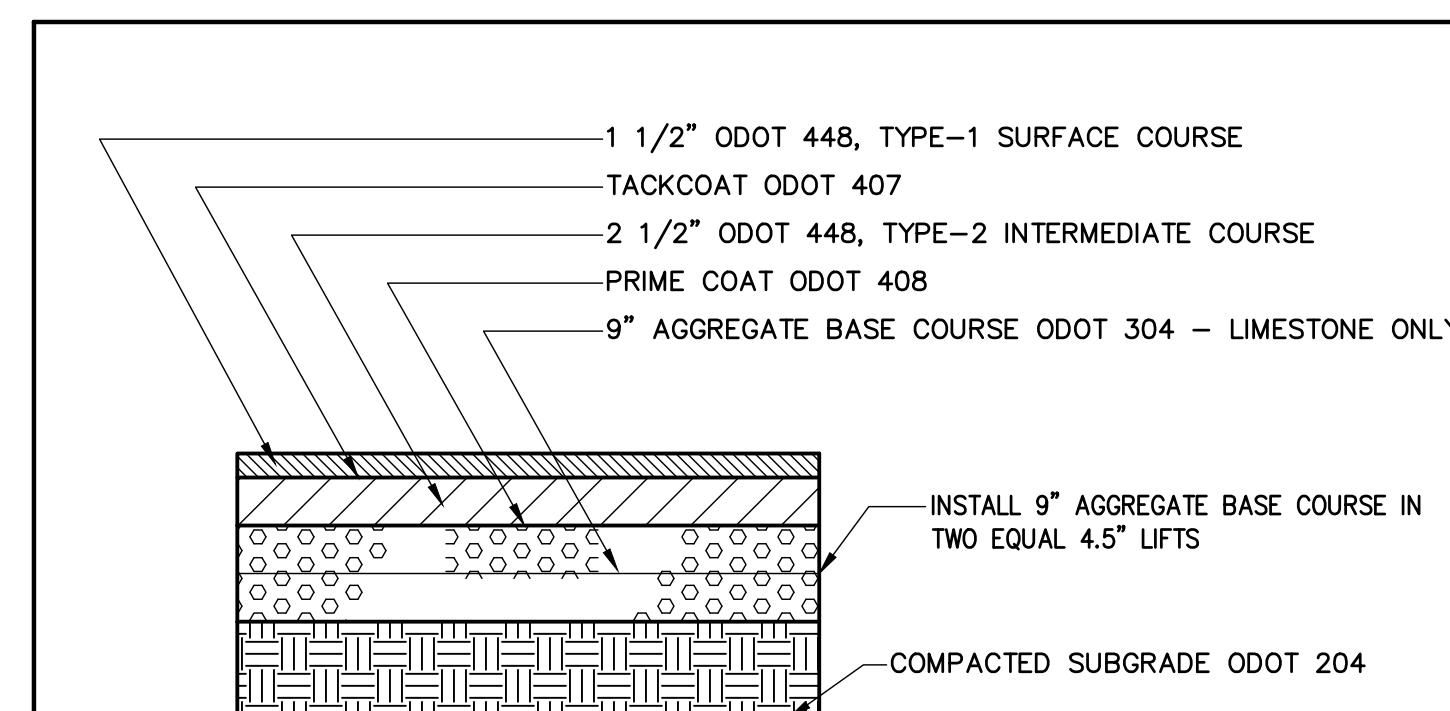
CONCRETE DRIVE APRON REPAIR DETAIL

N.T.S.



Details - Civil Asphalt Pavement Repair

NOTE: MATCH EXISTING PAVEMENT IN KIND FOR MINIMUM PAVEMENT MATERIAL THICKNESS



REGULAR DUTY ASPHALT PAVEMENT

NOTE: TO COMPLY WITH THE REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS, FOR ALL PAVEMENTS, THE MAXIMUM FINES PASSING THE #200 SIEVE FOR THE ODOT ITEM 304 SHALL BE RESTRICTED TO 5% MAX., NOT 0%-15% AS ALLOWED PER ODOT ITEM 304.

Details - Civil Asphalt Pavement



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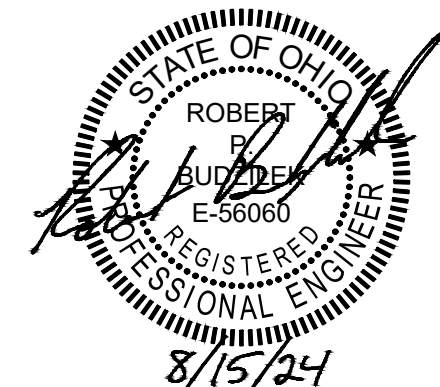
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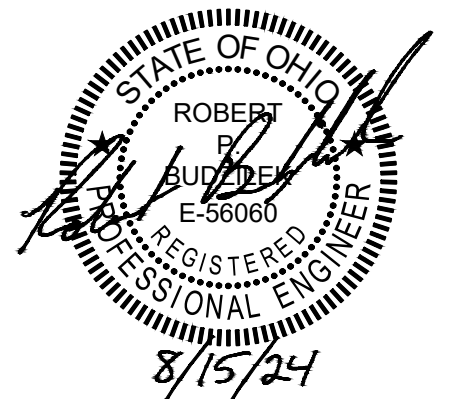
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SHEET TITLE

TYPICAL TRENCH
& WATERMAIN DETAILS

SHEET NUMBER

UD1



1/R	DATE	DESCRIPTION
1	08/15/2024	BID DOCUMENTS

60332065

TYPICAL MANHOLE DETAILS

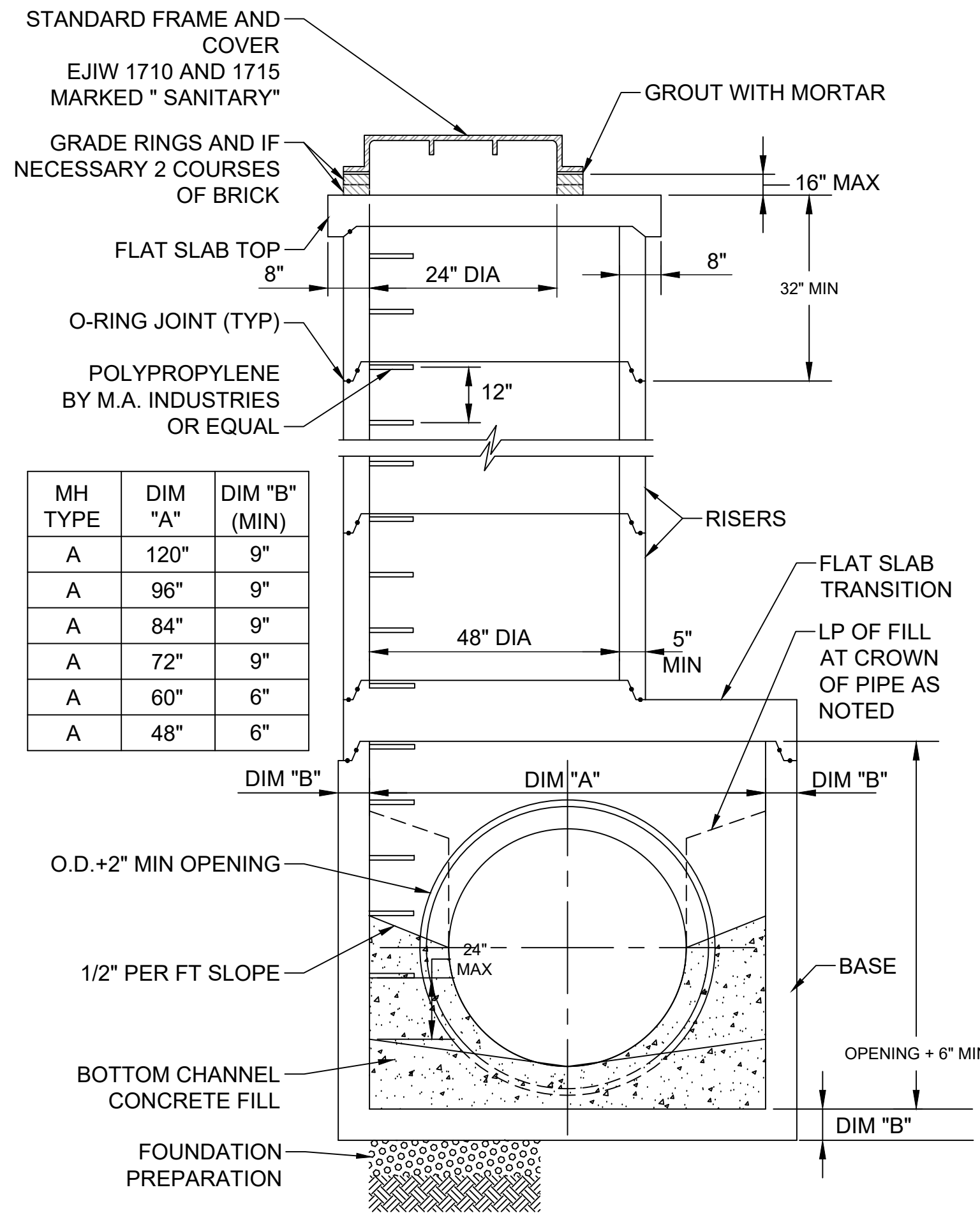
UD2

PRECAST CONCRETE / DROP MH NOTES:

1. THE PRECAST MANHOLE DESIGN SHALL BE IN ACCORDANCE WITH ASTM C478 WITH JOINTS PER ASTM C443.
2. SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP. ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED AND FURNISHED AS SOLID SECTION WITHOUT LIFT HOLES OF ANY KIND.
3. BASES FOR MANHOLES ARE SHOWN WITH MONOLITHIC FLOOR AND RISERS WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPE SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE PRECAST IN THE BASE OR INSTALLED BY FIELD CONSTRUCTION. FLOORS MAY ALSO BE POURED IN PLACE.
4. OPENINGS IN RISER SECTIONS SHALL BE PREFABRICATED. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR SANITARY AND STORM SEWERS. PREMIUM SEALS SHALL MEET ASTM C-923.
5. JOINT SEALS BETWEEN PRECAST MANHOLE SECTIONS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS. JOINTS SHALL MEET ASTM C-443.
6. MANHOLE GRADE RINGS SHALL BE SEALED EXTERNALLY AND BETWEEN GRADE RINGS WITH A LAYER OF MASTIC COMPOUND SUCH AS FABERLITE, KENT SEAL, OR EQUAL.
7. PRECAST MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
8. MINIMUM CLEARANCE FROM TOP OF FILL TO BOTTOM OF FLAT SLAB TRANSITION
9. APPLY "THOROSEAL" BY THORO SYSTEM PRODUCTS, OR APPROVED EQUAL TO THE INSIDE EXPOSED SURFACES OF ALL MANHOLES.

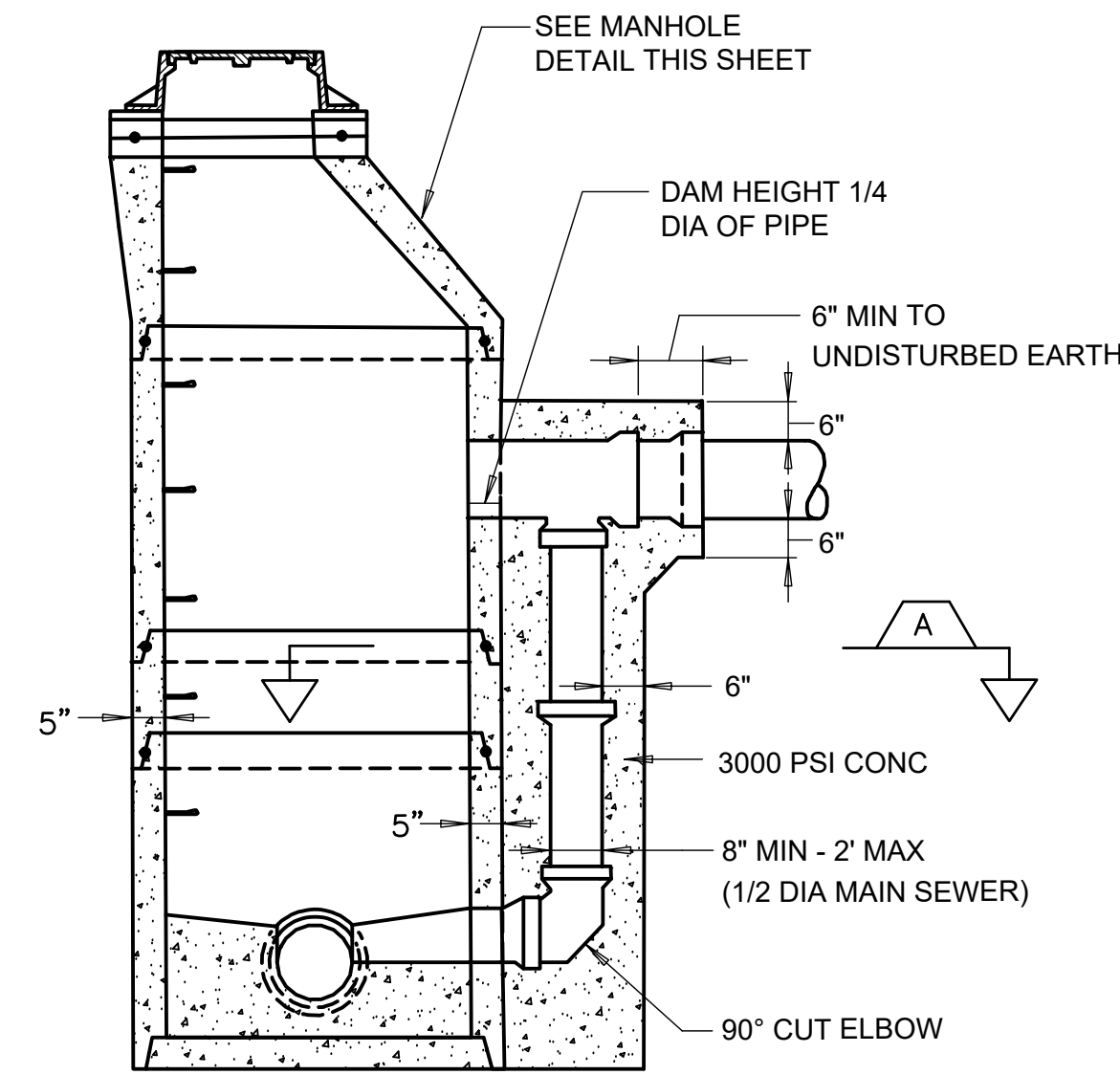
**MANHOLE TYPE A
 PRECAST CONCRETE**

NOT TO SCALE

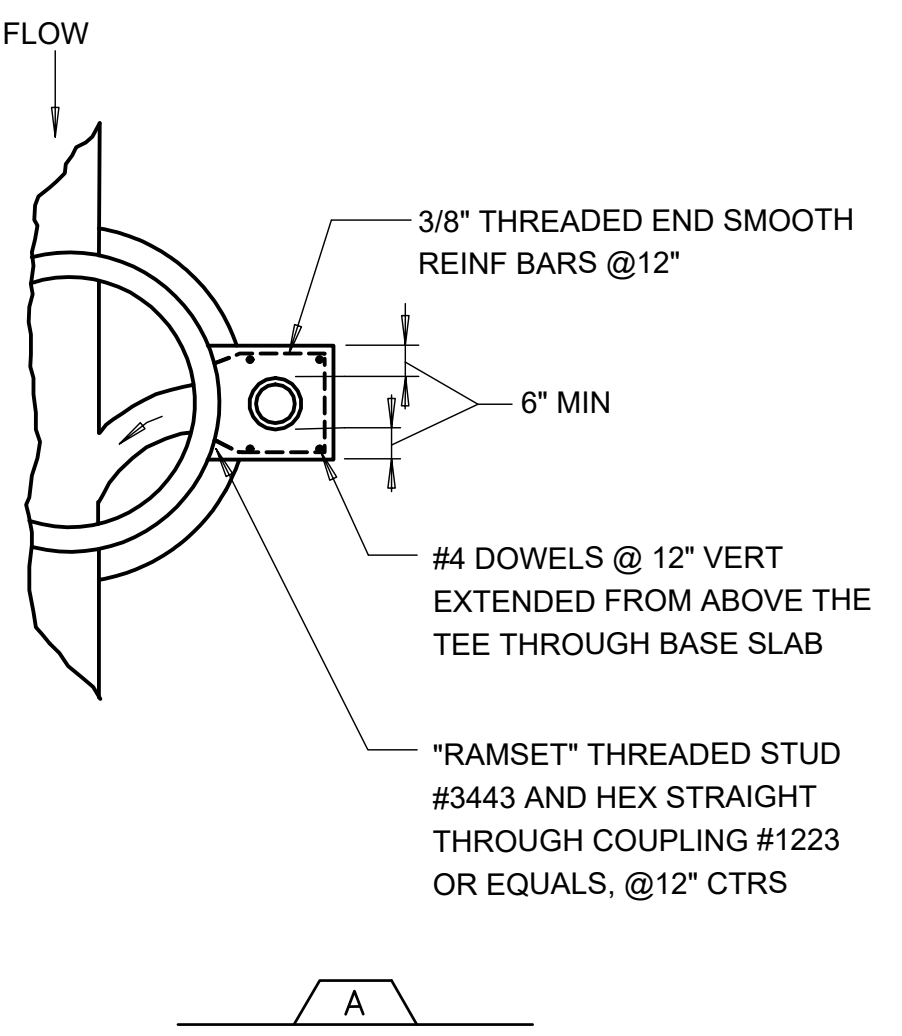


SANITARY MH SCHEDULE

MH ID#	MH TYPE	DIM "A"	INTERNAL ANGLE	DROP
XXX	"A"	96"	---	---
XXX	"C"	72"	0°	---
XXX	"C"	72"	0°	---



NOTE: DROP MH SHALL BE CONSTRUCTED WHERE DISTANCE BETWEEN INVERTS EXCEEDS 2'-0"



**MANHOLE TYPE B
 DROP MH**

NOT TO SCALE