

TOWN OF MILFORD KOSCIUSKO COUNTY, INDIANA

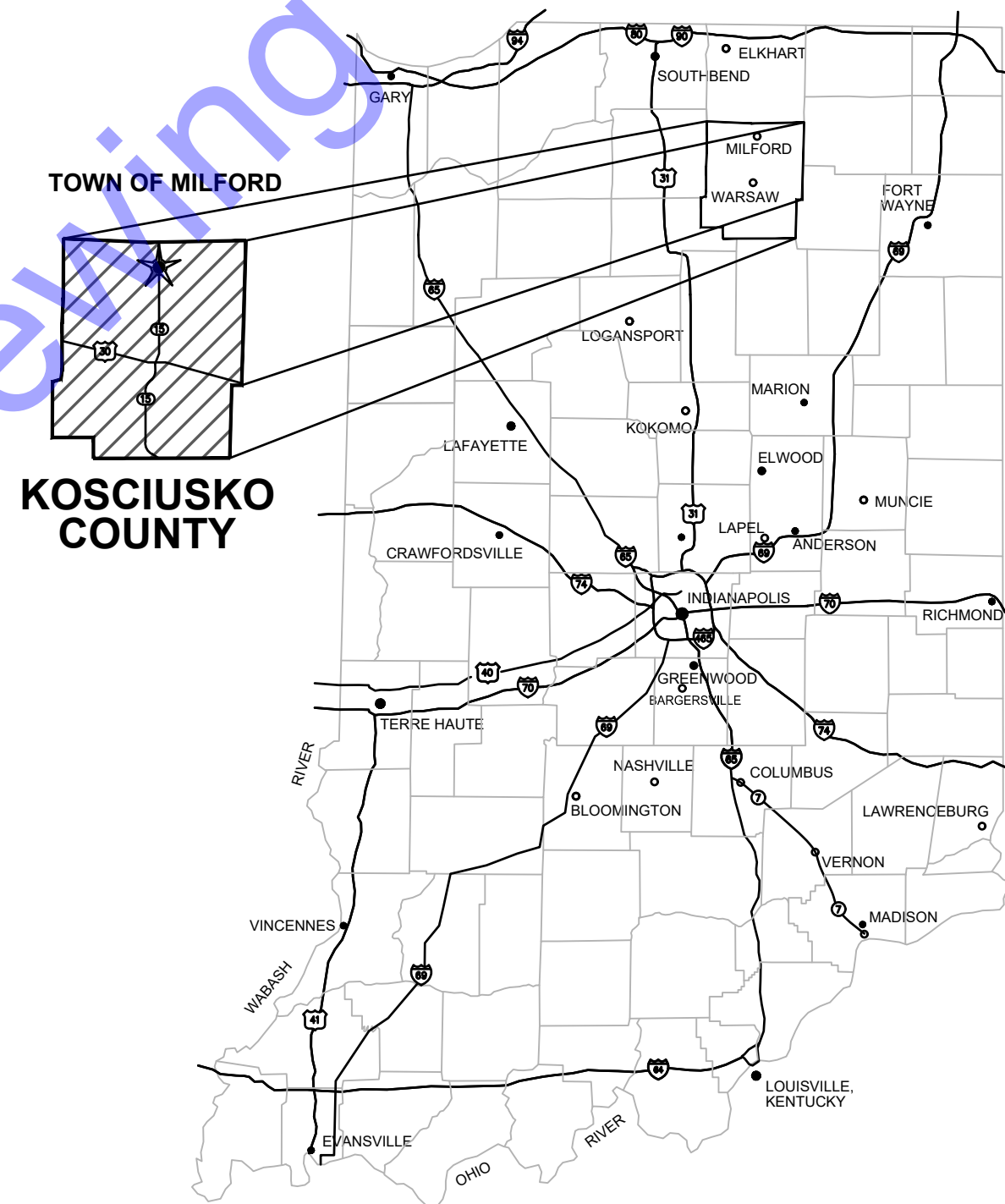
WATER UTILITY IMPROVEMENTS DIVISION B - WATER MAIN AND SERVICE LINE IMPROVEMENTS JANUARY 2025

TOWN COUNCIL

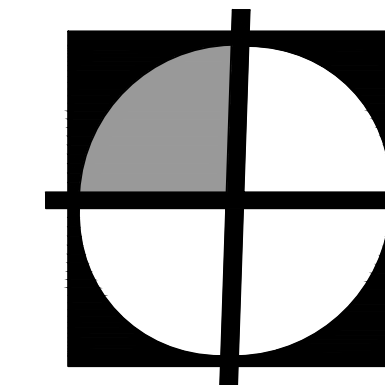
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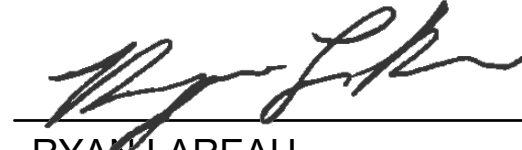
GENERAL LOCATION MAP



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QA/QC BY : JOHN WETZEL, P.E. 12/23/2024
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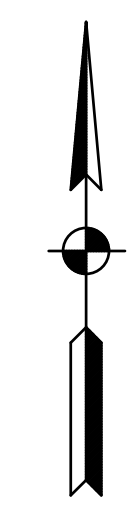
CERTIFIED BY : 
RYAN LAREAU 12/09/2024
INDIANA P.E. No. 11800145 DATE :



CONTRACT NO. : W24161



VICINITY MAP
 SCALE: 1"=1,500'-0"
 0 1,500' 3,000'



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RYAN M. LAREAU
 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA
 Signature: *[Signature]* Date: 12-9-2024

**TOWN OF MILFORD
 KOSCIUSKO COUNTY,
 INDIANA**

WATER UTILITY IMPROVEMENTS
 DIVISION "B" - WATER MAIN AND
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Designed By: RML Drawn By: GRC Checked By: JW
 Issue Date: 1-14-25 Project No: W24161 Scale: AS SHOWN

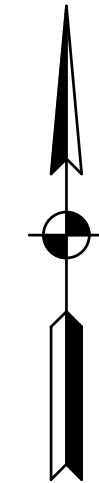
VICINITY MAP AND
 DRAWING SET INDEX

Drawing No:
G2
 Sheet: 02 OF 49

FILE Z:\SHARED\CLIENTS\14241\FORD\161 - WATER UTILITY IMPROVEMENTS\CADD\CURRENT FILES\DRAWINGS\DWG\DRAWINGS\DWG\14241_02_GENERAL_DRAWINGS.DWG
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PLAN VIEW
 SCALE: 1"=300'-0"
 0 300' 600'



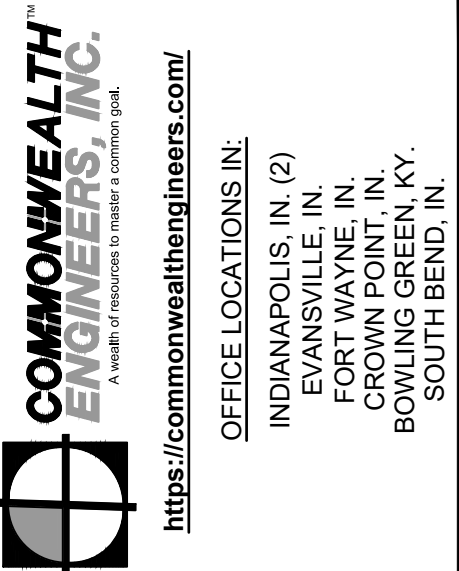
HORIZONTAL CONTROL POINT INFORMATION

IDENTIFIER	NORTHING	EASTING	DESCRIPTION
HC #47000	2243116.88	278918.27	HCV MAG TOC E MAIN AND SECTION AT HOUSE 310
HC #47001	2243098.82	277699.24	HCV MAG IN SW SW HIGBEE AND SECTION
HC #47002	2241738.16	276600.56	HCV MAG WITH WASHER W SR 15 AT DRIVE FOR SELF STORAGE
HC #47003	2243400.93	277247.80	HCV MAG IN SW 75' W FIRST AND MAPLE AT HOUSE 504
HC #47004	2244366.94	277109.12	HCV MAG IN CONC DRV HOUSE 509
HC #47005	2244840.00	277321.00	HCV CHIZ X MH S RIM N MAPLE AND FOURTH
HC #47006	2245319.27	277726.62	HCV MAG TOC E HIGBEE AND SIXTH 1' S ICC
HC #47007	2245836.38	280545.47	HCV CHIZ X N RIM MH N SYRACUSE AND SHAFFER
HC #47008	2244374.05	280551.56	HCV MAG TOC S CATHERINE AND SHAFFER
HC #47009	2243941.14	279302.19	HCV MAG CONC NW JAMES AND EMELINE

BENCHMARK INFORMATION

IDENTIFIER	ELEVATION	DESCRIPTION
BM #7400	834.62	BM CHIZ X NNW BB FH S OF SECTION AND HENRY
BM #7401	835.24	BM RR SPIKE IN PWP 688 028 NW FIRST AND HENRY
BM #7402	834.70	BM RR SPIKE IN PWP 542 484 NE WEST AND HENRY
BM #7403	827.79	BM RR SPIKE PWP INSIDE FCE AT TREATMENT PLANT
BM #7404	828.40	BM RR SPIKE PWP 1-058-469 AT HOUSE 11687 ON SR 15
BM #7405	834.67	BM CHIZ X S BB FH NE FIRST AND MAPLE
BM #7406	833.24	BM MAG IN FLAGPOLE BASE AT SCHOOL MAIN ENTRANCE
BM #7407	833.64	BM RR SPIKE PWP 1-052-749 NE ELM AND FOURTH
BM #7408	834.06	BM RR SPIKE LP 1074033
BM #7409	835.11	BM RR SPIKE PWP 689-891 150' S SYRACUSE AND SHAFFER
BM #7410	836.89	BM RR SPIKE LP 1064-706 E FOURTH AND SHAFFER
BM #7411	834.76	BM RR SPIKE PWP 543561 SW JAMES AND CATHERINE
BM #7412	834.17	BM RR SPIKE PWP 692-135 50' W EAST AND EMELINE

Project coordinates are based on the following:
HORIZONTAL-US State plane coordinates: NAD83 (North American Datum) Indiana East Zone (1301)
VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)



TOWN OF MILFORD
 KOSCIUSKO COUNTY,
 INDIANA

WATER UTILITY IMPROVEMENTS
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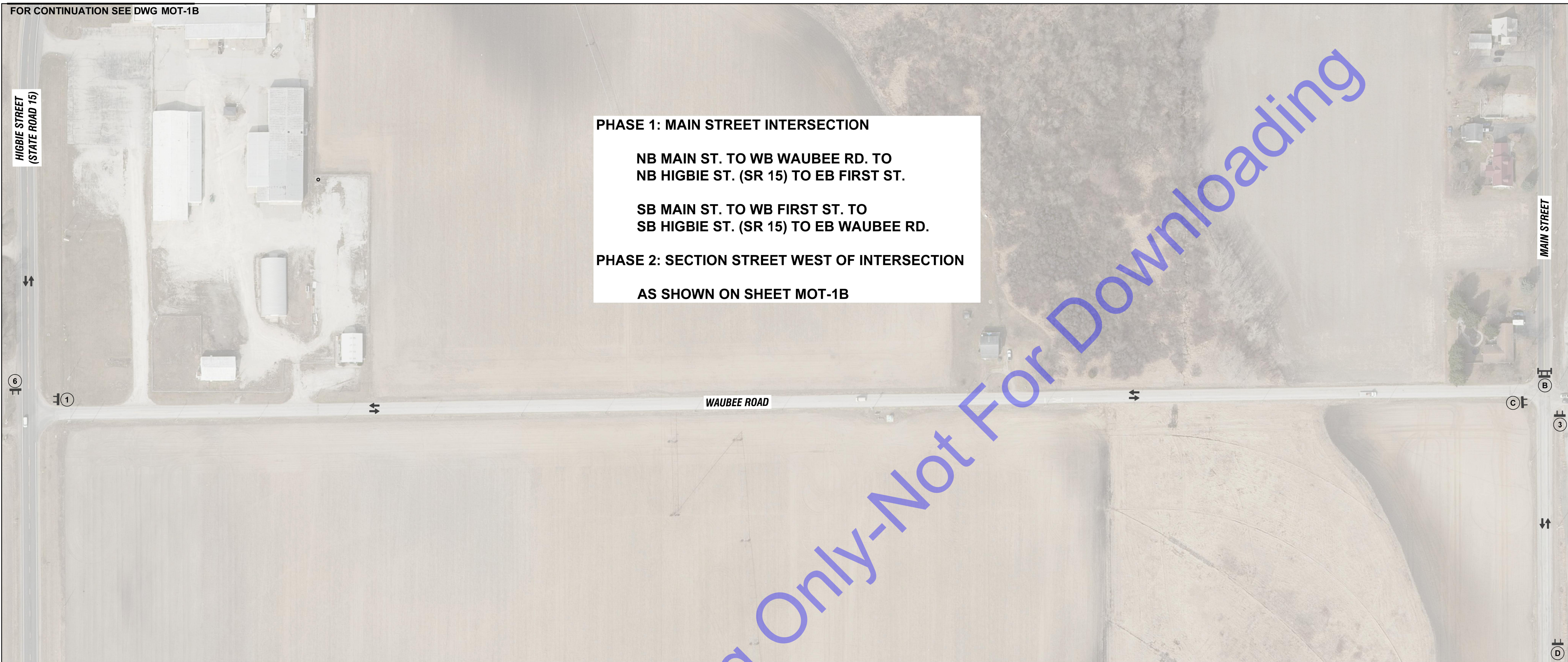
Date	By	Submittal / Revision

Designed By: RML	Drawn By: GRC	Checked By: JW
Issue Date: 1-14-25	Project No: W24161	Scale: AS SHOWN

SURVEY DATA

Drawing No:
G4
 Sheet: 04 OF 49

FOR CONTINUATION SEE DWG MOT-1B



PHASE 1: MAIN STREET INTERSECTION

NB MAIN ST. TO WB WAUBEE RD. TO
NB HIGBIE ST. (SR 15) TO EB FIRST ST.

SB MAIN ST. TO WB FIRST ST. TO
SB HIGBIE ST. (SR 15) TO EB WAUBEE RD.

PHASE 2: SECTION STREET WEST OF INTERSECTION

AS SHOWN ON SHEET MOT-1B

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RYAN N. MAROITZ
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE11300519

Ryan Maroitz
Signature
12/09/2024
Date

**TOWN OF MILFORD
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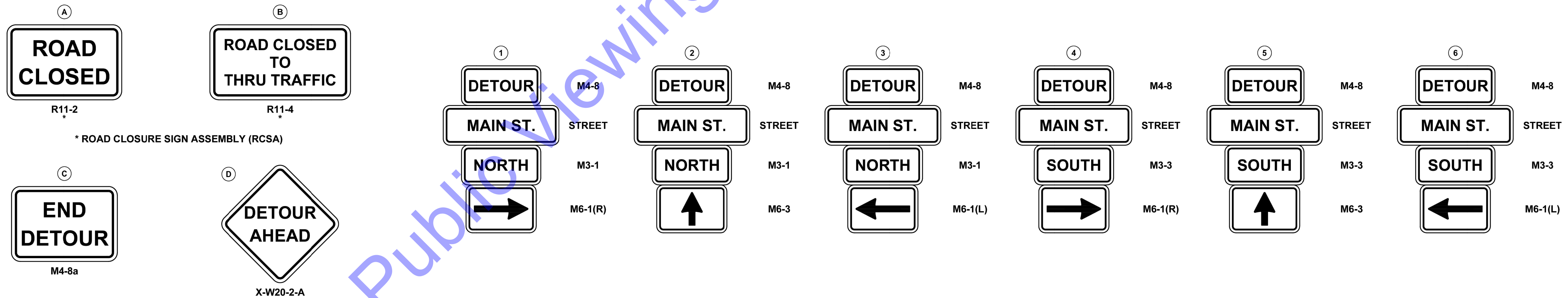
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MAINTENANCE OF TRAFFIC

SECTION STREET

Drawing No:
MOT-1A

Sheet: 5 OF 45

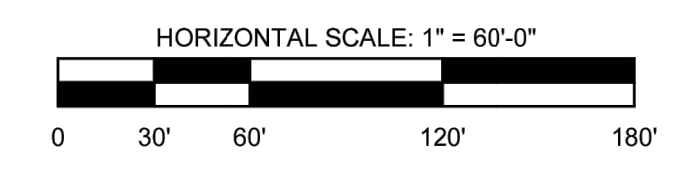


TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- CONSTRUCTION SIGN
- CHANNELIZING DRUM
- TEMPORARY CONCRETE BARRIER
- WORK AREA
- DIRECTION OF TRAFFIC

NOTES

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FOR CONTINUATION SEE DWG MOT-1A



R11-2

* ROAD CLOSURE SIGN ASSEMBLY (RCSA)



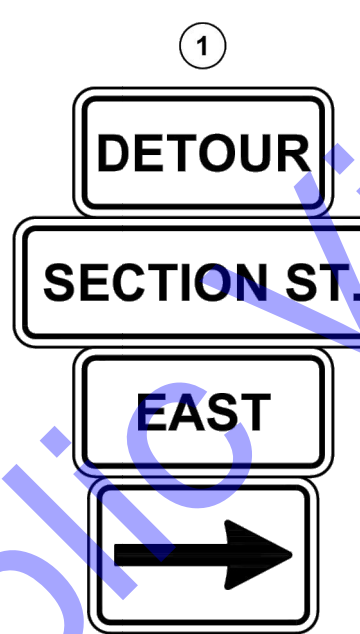
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M4-8a



X-W20-2-A



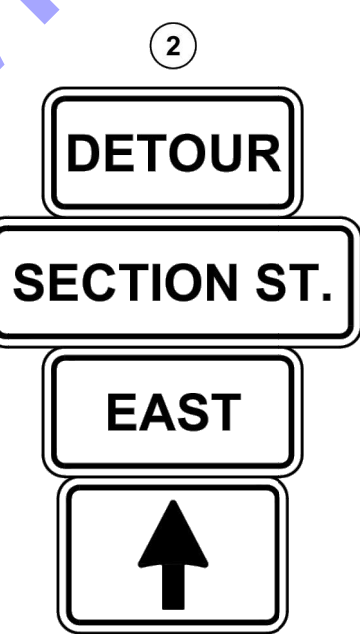
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M4-8

SECTION ST. STREET

M3-2

M6-1(R)



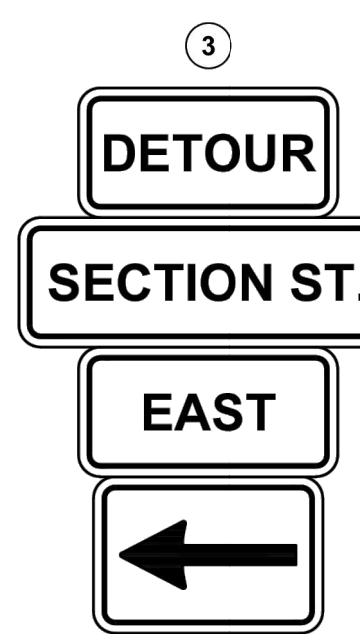
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M4-8

SECTION ST. STREET

M3-2

M6-3



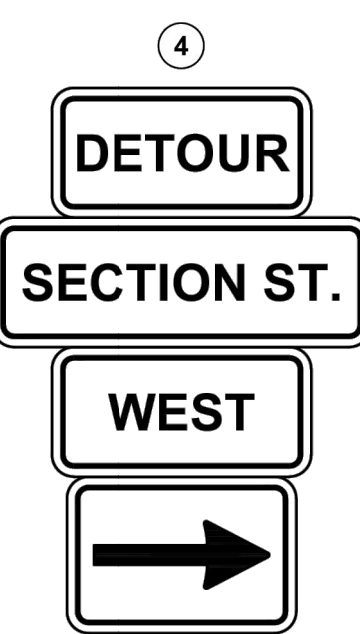
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M4-8

SECTION ST. STREET

M3-2

M6-1(L)



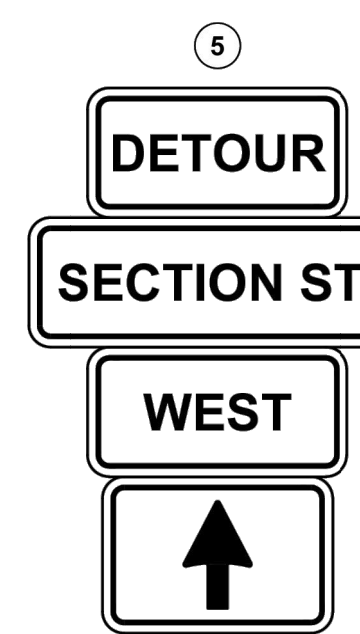
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M4-8

SECTION ST. STREET

M3-4

M6-1(R)



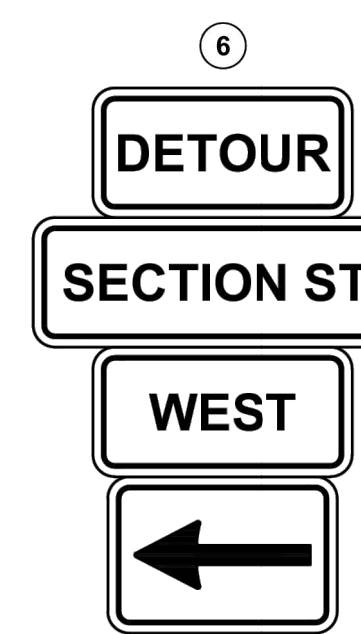
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M4-8

SECTION ST. STREET

M3-4

M6-3



6

M4-8

SECTION ST. STREET

M3-4

M6-1(L)

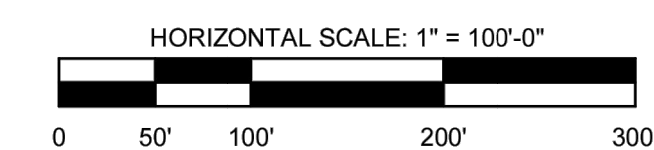
TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- CONSTRUCTION SIGN
- CHANNELIZING DRUM
- TEMPORARY CONCRETE BARRIER

- WORK AREA
- DIRECTION OF TRAFFIC

NOTES

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RYAN A. MAROLI, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 PE11300519

Ryan Maroli
 Signature
 12/09/2024
 Date

**TOWN OF MILFORD
 KOSCIUSKO COUNTY,
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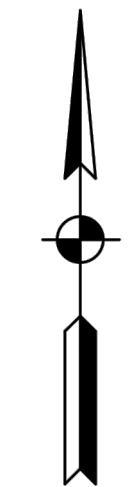
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MAINTENANCE OF TRAFFIC

SECTION STREET

Drawing No:
MOT-1B

Sheet: 6 OF 45



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RYAN A. MAROITCA
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 PE11300519
 Signature: Ryan Maroitca Date: 12/09/2024

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WATER UTILITY IMPROVEMENTS
 DIVISION "B" - WATER MAIN AND
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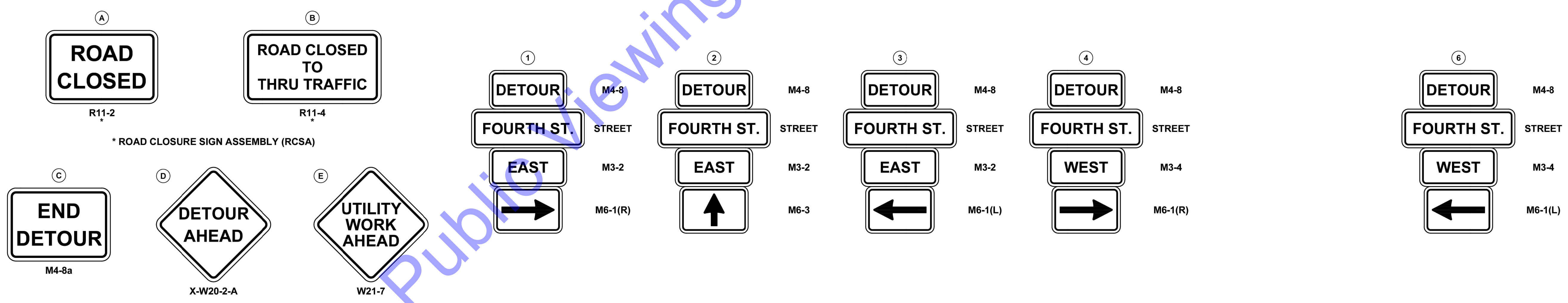
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MAINTENANCE OF TRAFFIC
 FOURTH & SIXTH STREETS

Drawing No:
MOT-4
 Sheet: 9 OF 45

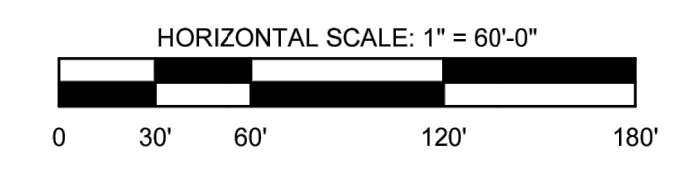


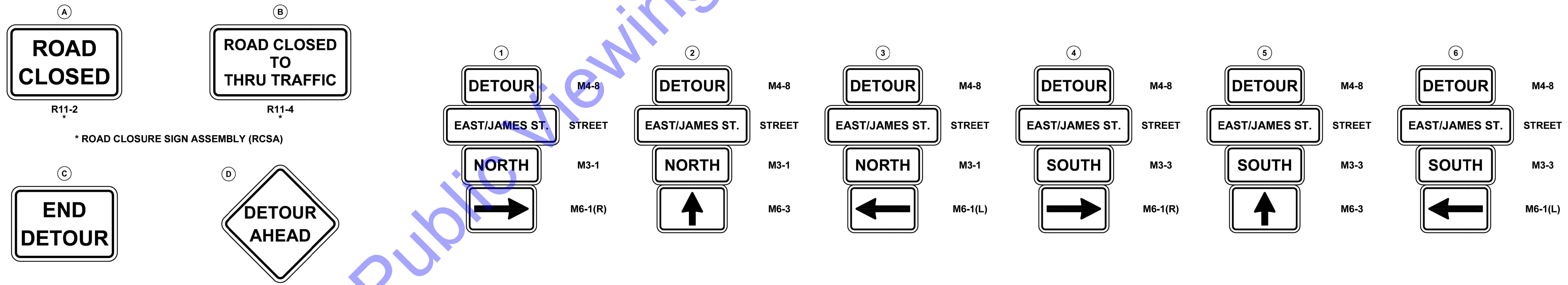
TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- CONSTRUCTION SIGN
- CHANNELIZING DRUM
- TEMPORARY CONCRETE BARRIER
- WORK AREA
- DIRECTION OF TRAFFIC

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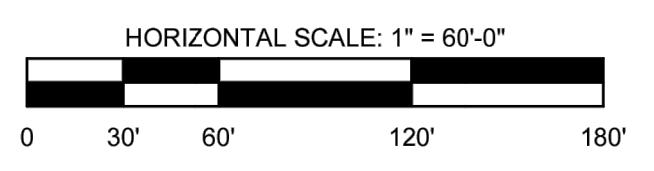


TRAFFIC CONTROL LEGEND

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 STATE OF INDIANA
 PE11300519

Ryan Marolica
 Signature
 12/09/2024
 Date

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MAINTENANCE OF TRAFFIC

EMELINE STREET

Drawing No:
MOT-5

Sheet: 10 OF 45



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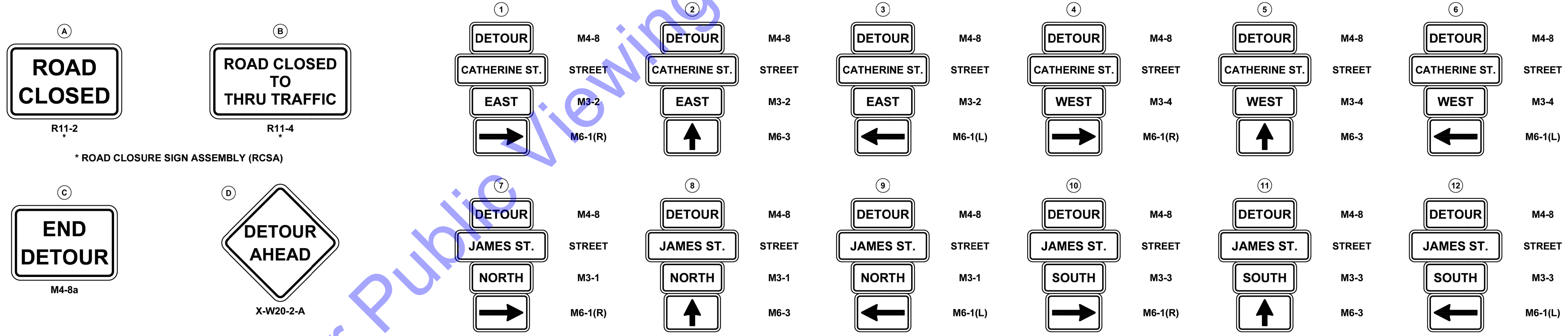
RYAN N. MAROITZ
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 PE11300519
 Signature: *Ryan Maroitz* Date: 12/09/2024

TOWN OF MILFORD,
 KOSCIUSKO COUNTY,
 INDIANA
 WATER UTILITY IMPROVEMENTS
 DIVISION "B" - WATER MAIN AND
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Issue Date: 12/09/24	Project No: W24161	Scale: AS SHOWN

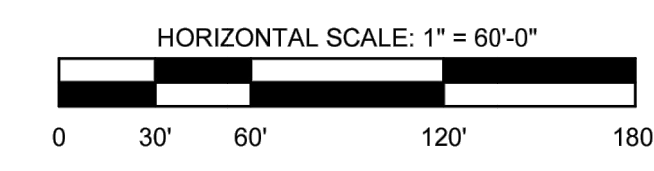


TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- CONSTRUCTION SIGN
- CHANNELIZING DRUM
- TEMPORARY CONCRETE BARRIER
- WORK AREA
- DIRECTION OF TRAFFIC

NOTES

1. ALL SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PLACED IN ACCORDANCE WITH THE MOST-CURRENT EDITION OF THE INDIANA MUTCD AND INDOT STANDARDS.
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5. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT WORK AREAS ADJACENT TO LIVE TRAFFIC.





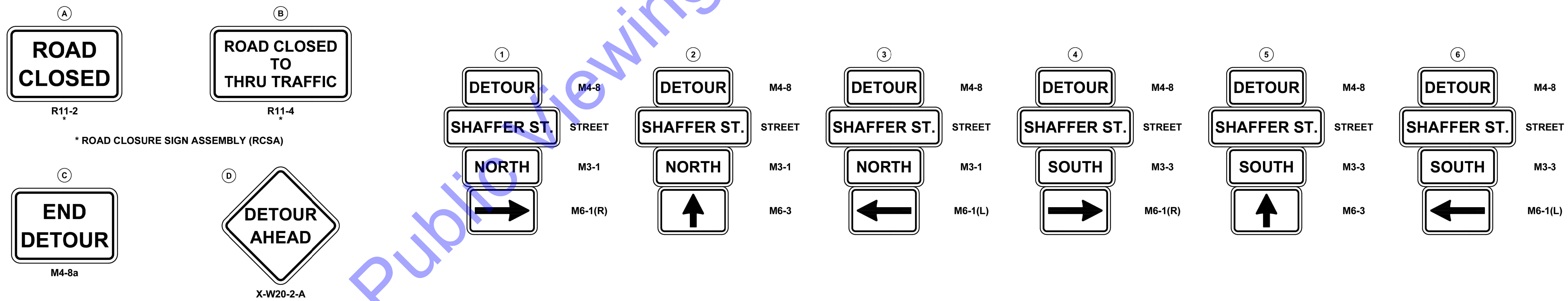
PHASE 1: CATHERINE STREET INTERSECTION

**WB CATHERINE ST. / BEER RD. TO
NB SHAFFER ST. TO WB FOURTH ST. TO SB EAST ST.**

**NB CO. RD. 175 E TO WB CO. RD. 1300 N TO
SB CO. RD. 100 E TO WB CO. RD. 1250 N**

PHASE 2: SHAFFER STREET NORTH OF INTERSECTION

AS SHOWN ON THIS SHEET

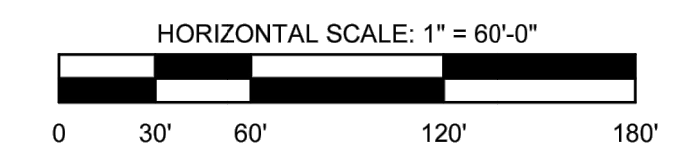


TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
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RYAN N. MAROJA
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE11300519

Signature: Ryan Maroja Date: 12/09/2024

**TOWN OF MILFORD
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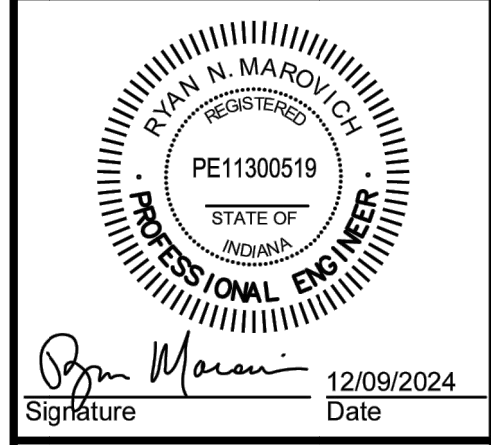
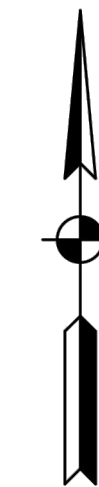
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Issue Date: 12/09/24	Project No: W24161	Scale: AS SHOWN

MAINTENANCE OF TRAFFIC

SHAFFER STREET

Drawing No:
MOT-7

Sheet: 12 OF 45

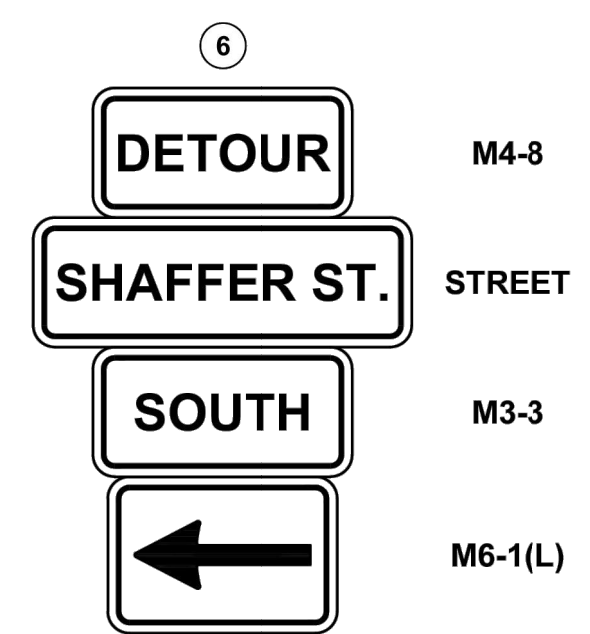
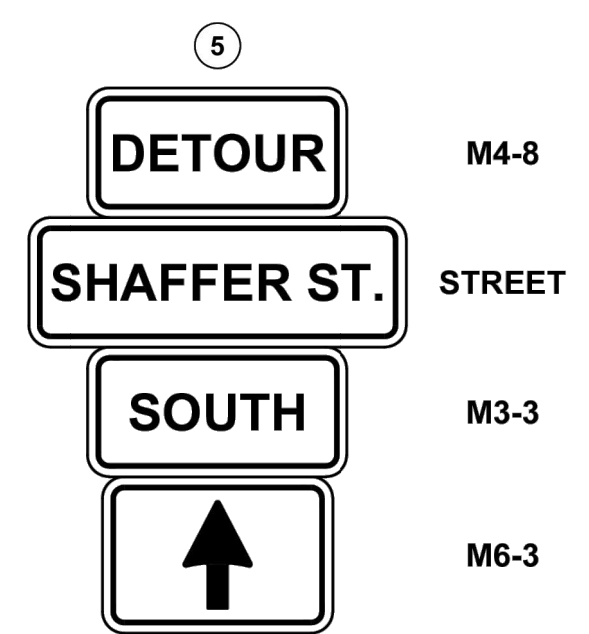
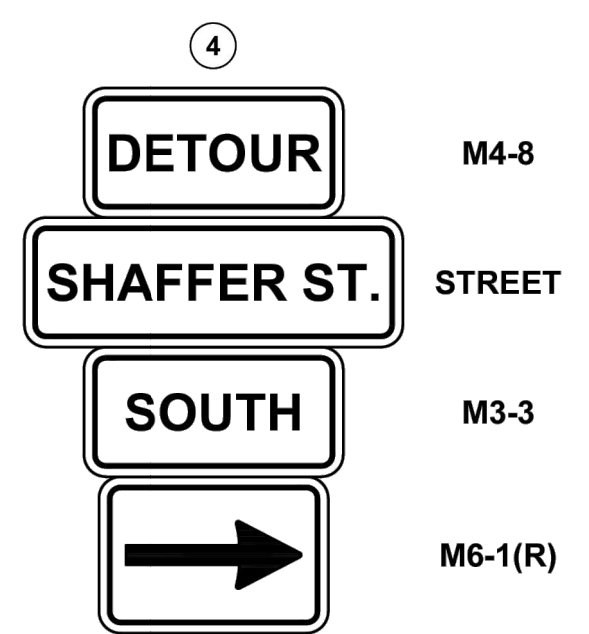
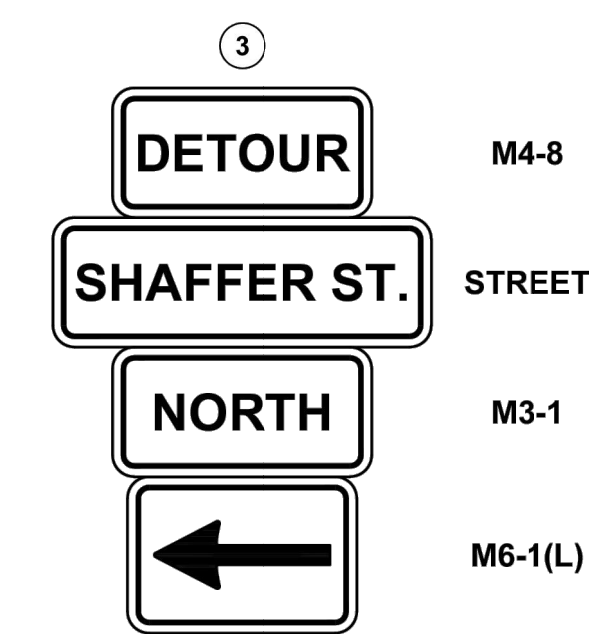
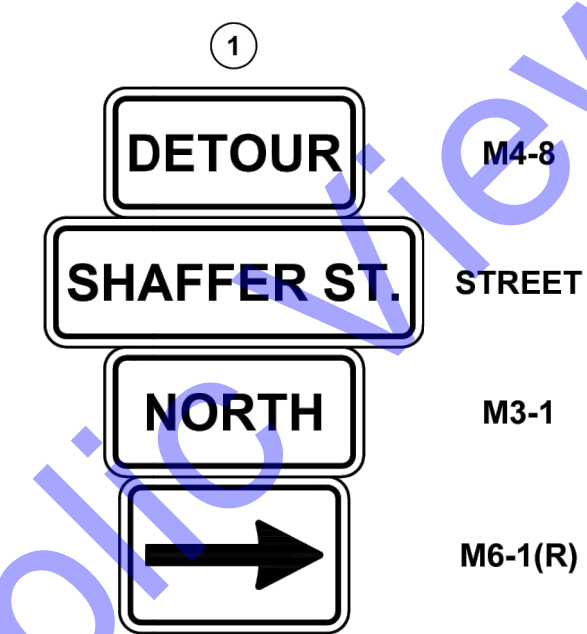
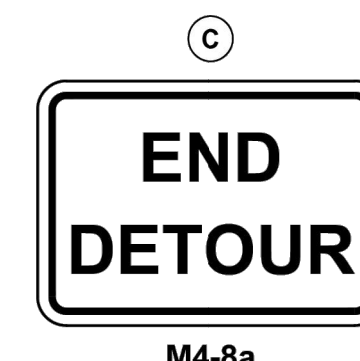
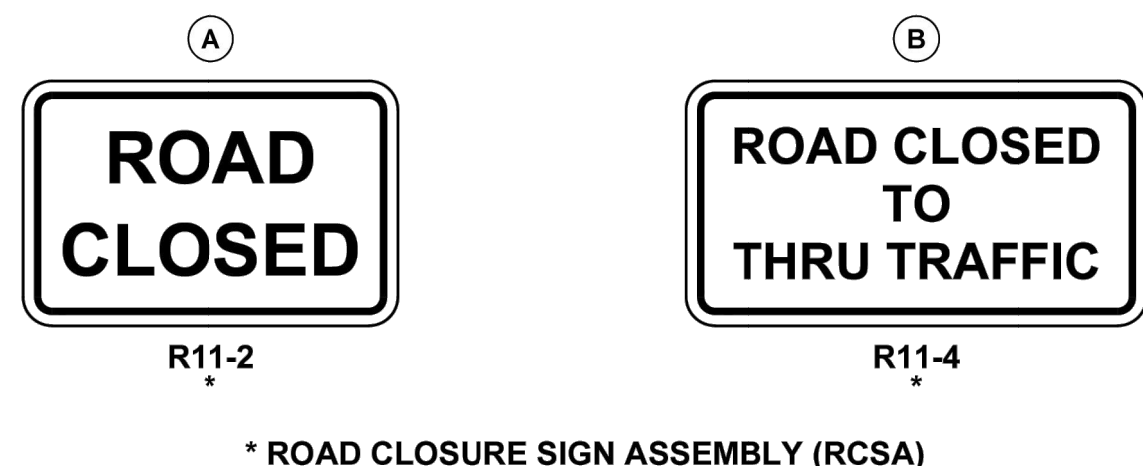


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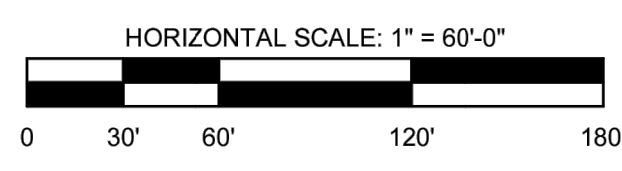


TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
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- CHANNELIZING DRUM
- TEMPORARY CONCRETE BARRIER
- WORK AREA
- DIRECTION OF TRAFFIC

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Designed By:	Drawn By:	Checked By:
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Issue Date:	Project No:	Scale:
12/09/24	W24161	AS SHOWN

MAINTENANCE OF TRAFFIC

SHAFFER STREET

Drawing No:
MOT-8

Sheet: 13 OF 45

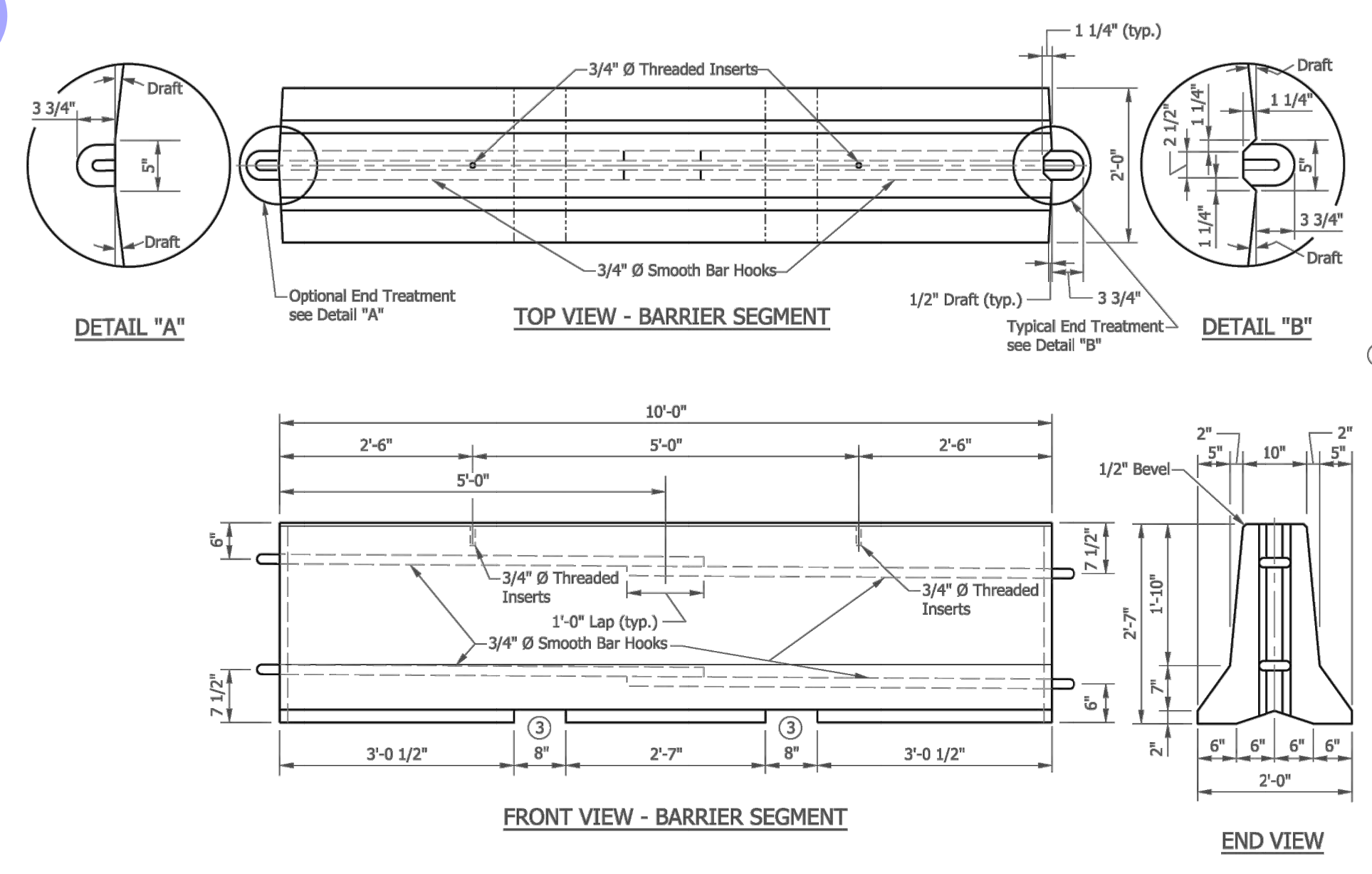
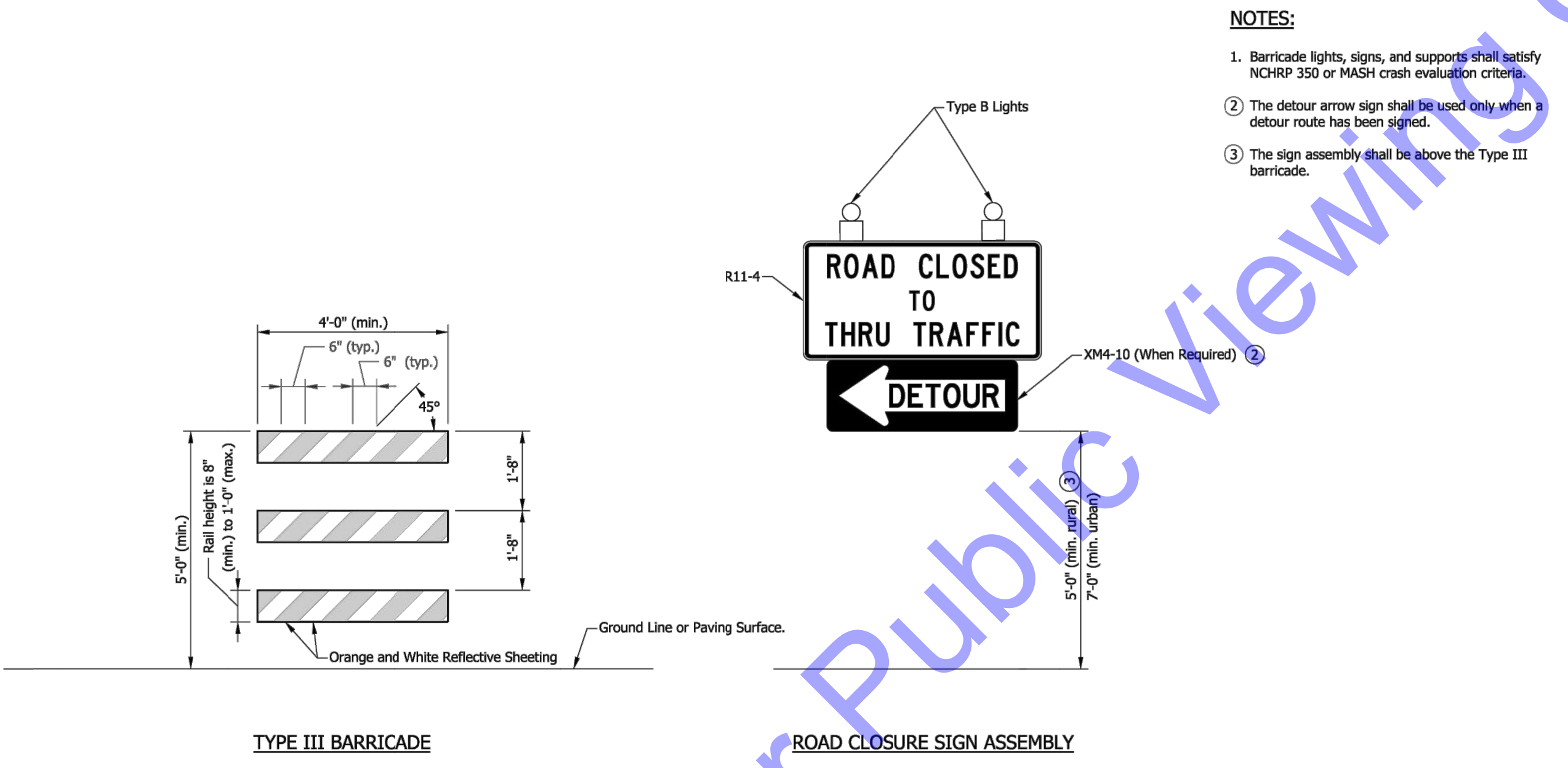
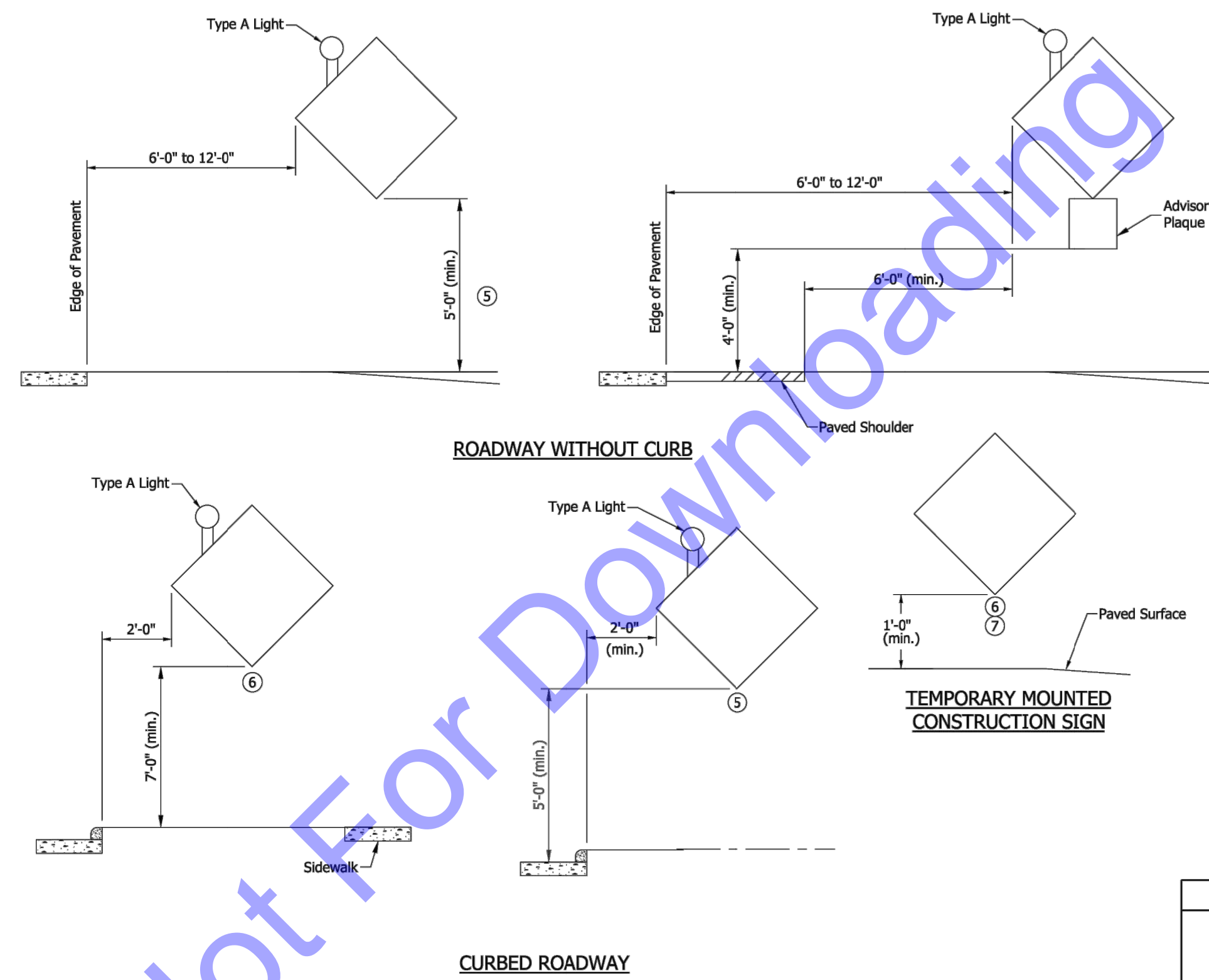
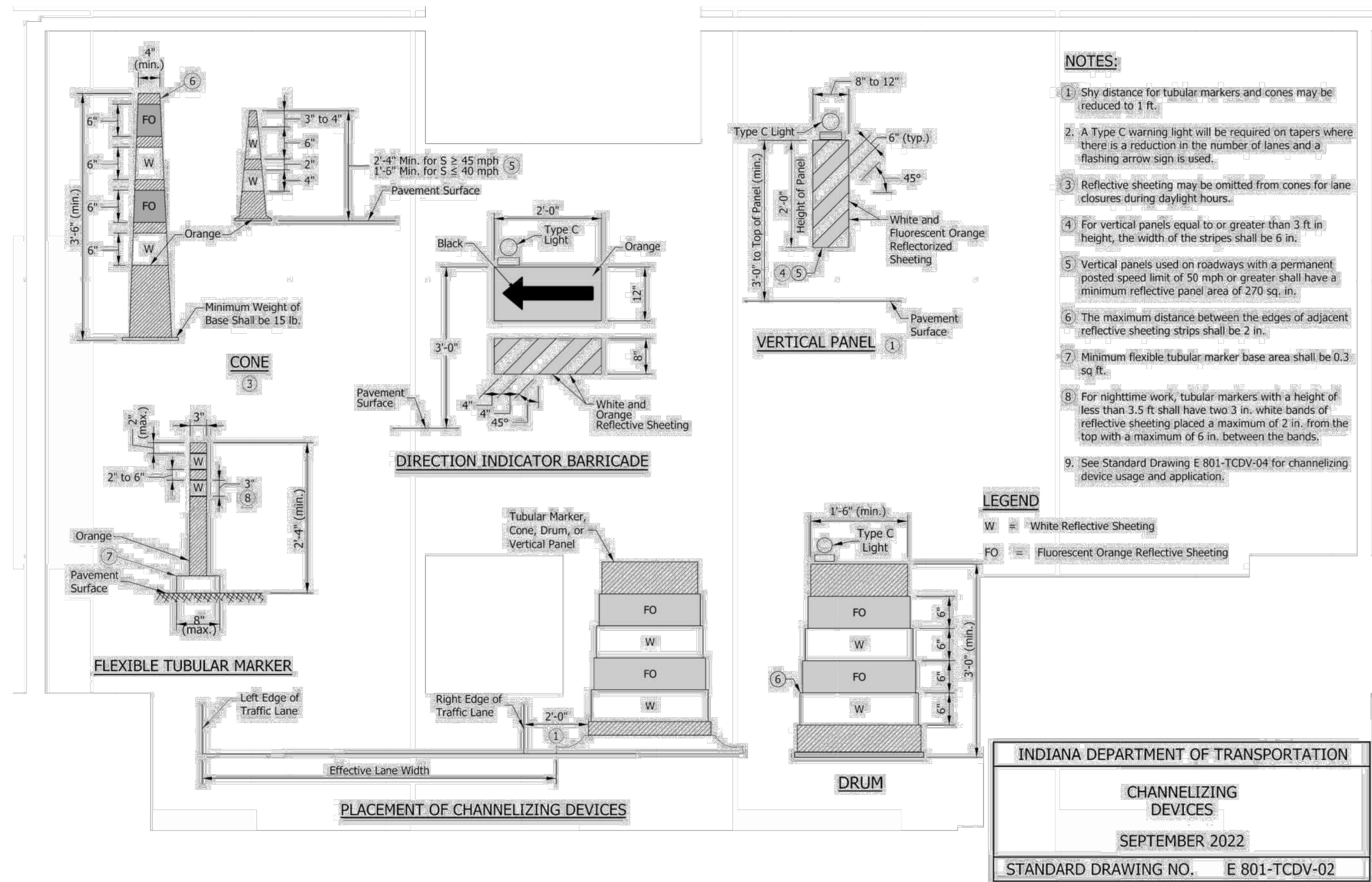


TABLE NO. 1

Construction Zone Design Speed	Barrier Taper Flare Rate	Construction Clear Zone Distance
70 mph	20:1	30
60 mph	18:1	30
55 mph	16:1	23
50 mph	14:1	16
45 mph	12:1	16
40 mph	10:1	13
≤ 35 mph	10:1	13

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RYAN A. MAROLICA
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE11300519
Signature: Ryan Marolica
Date: 12/09/2024

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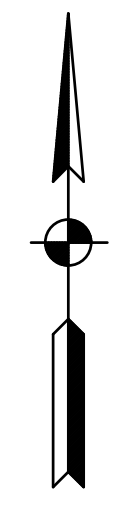
MAINTENANCE OF TRAFFIC DETAILS

Drawing No:
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Sheet: 14 OF 45

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 Sheet: 11/2/2025 9:47:50 AM Plotted: 11/20/25 10:02:14 AM Current User: George Baker Last Saved By: gbk



PLAN VIEW
 SCALE: 1"=200'-0"
 0 200' 400'



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RYAN M. LAREAU
 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA

[Signature]
 Signature Date: 12-9-2024

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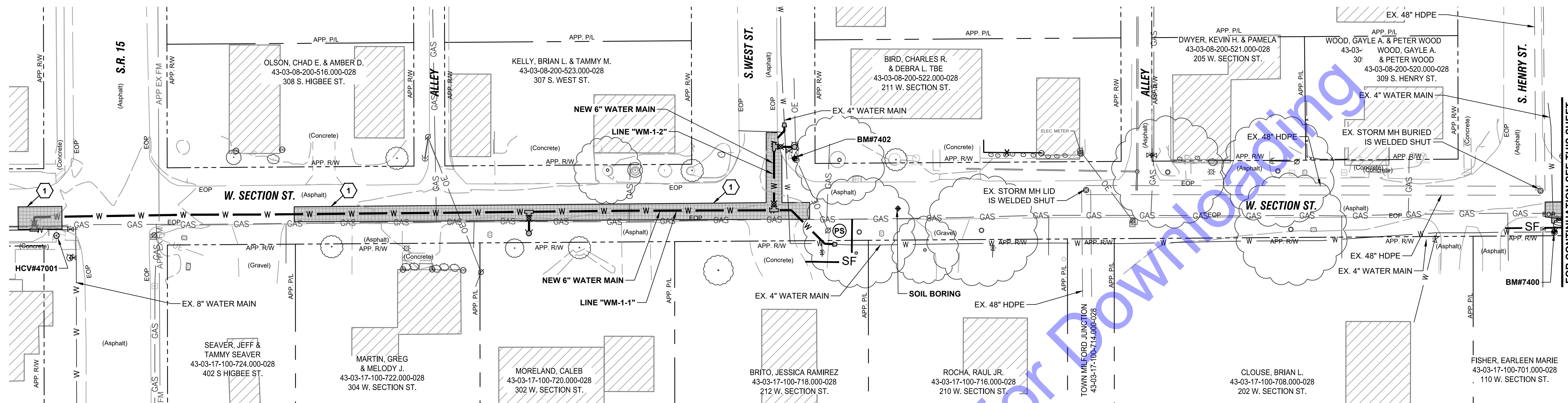
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Designed By: RML	Drawn By: GRC	Checked By: JW
Issue Date: 1-14-25	Project No: W24161	Scale: AS SHOWN

DEMOLITION AND EROSION CONTROL DRAWING INDEX

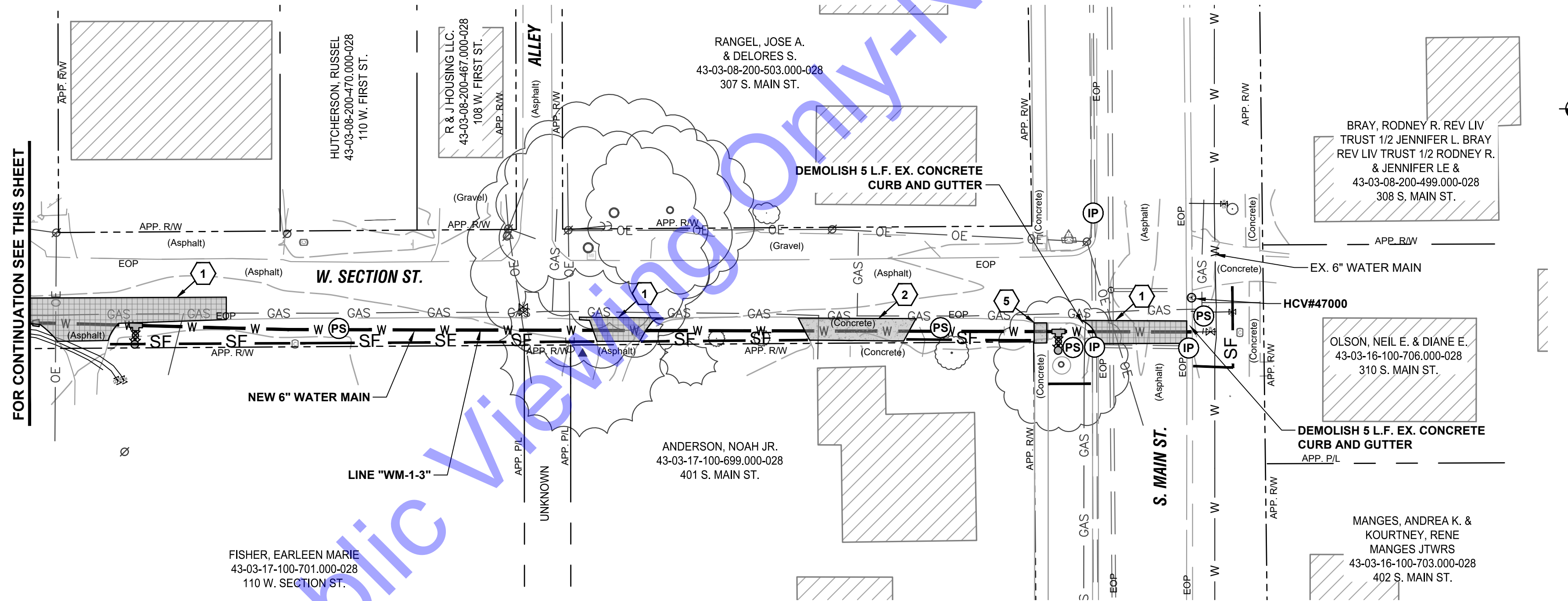
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PLAN VIEW - LINES "WM-1-1" AND "WM1-2"

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW - LINE "WM-1-3"

SCALE: 1"=30'-0"
 0 30' 60'

DEMOLITION AND RESTORATION KEYNOTES:

- | | |
|---|---|
| <p>1 REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).</p> <p>2 REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).</p> <p>3 REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).</p> | <p>4 MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG MD2).</p> <p>5 REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD4).</p> |
|---|---|

EROSION CONTROL LEGEND:

- (PS)** PERMANENT SEEDING
- SF-** SILT FENCE
- (IP)** INLET PROTECTION

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS SPECIFIED IN THE DETAILED SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO CONCRETE WASHOUT STATIONS, TEMPORARY CONSTRUCTION ENTRANCES, TEMPORARY SEEDING, ETC. AS REQUIRED DURING THE DURATION OF THE PROJECT TO MAINTAIN COMPLIANCE WITH THE GENERAL STORM WATER CONSTRUCTION PERMIT. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE GENERAL STORM WATER CONSTRUCTION PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO THE REQUIRED AGENCIES.
- SEE DRAWING EC4 FOR EROSION CONTROL DETAILS.

FOR CONTINUATION SEE THIS SHEET

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 No. PE11800145
 STATE OF INDIANA

Signature: *[Signature]* Date: 12-9-2024

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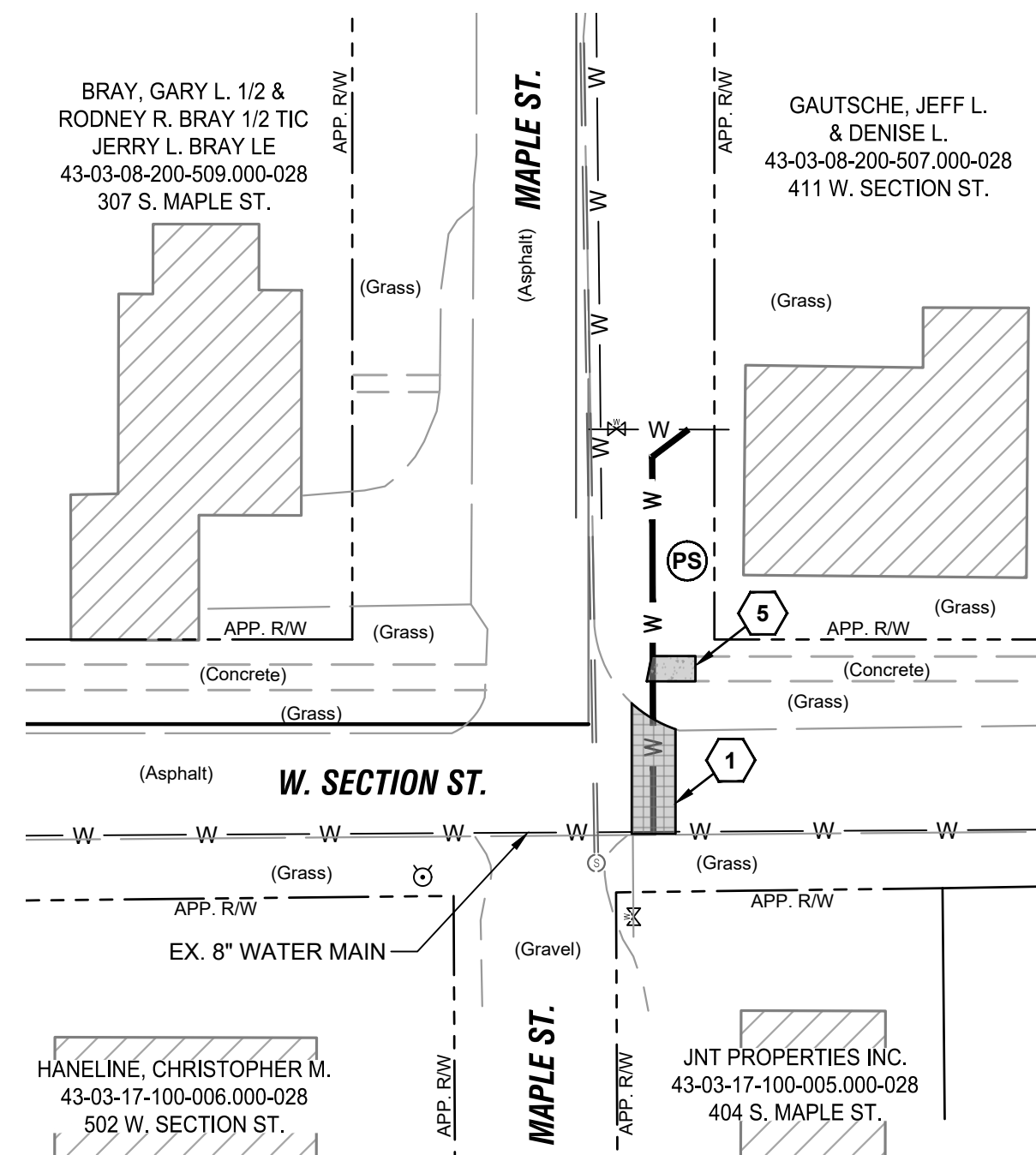
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DEMOLITION AND EROSION CONTROL PLAN VIEWS

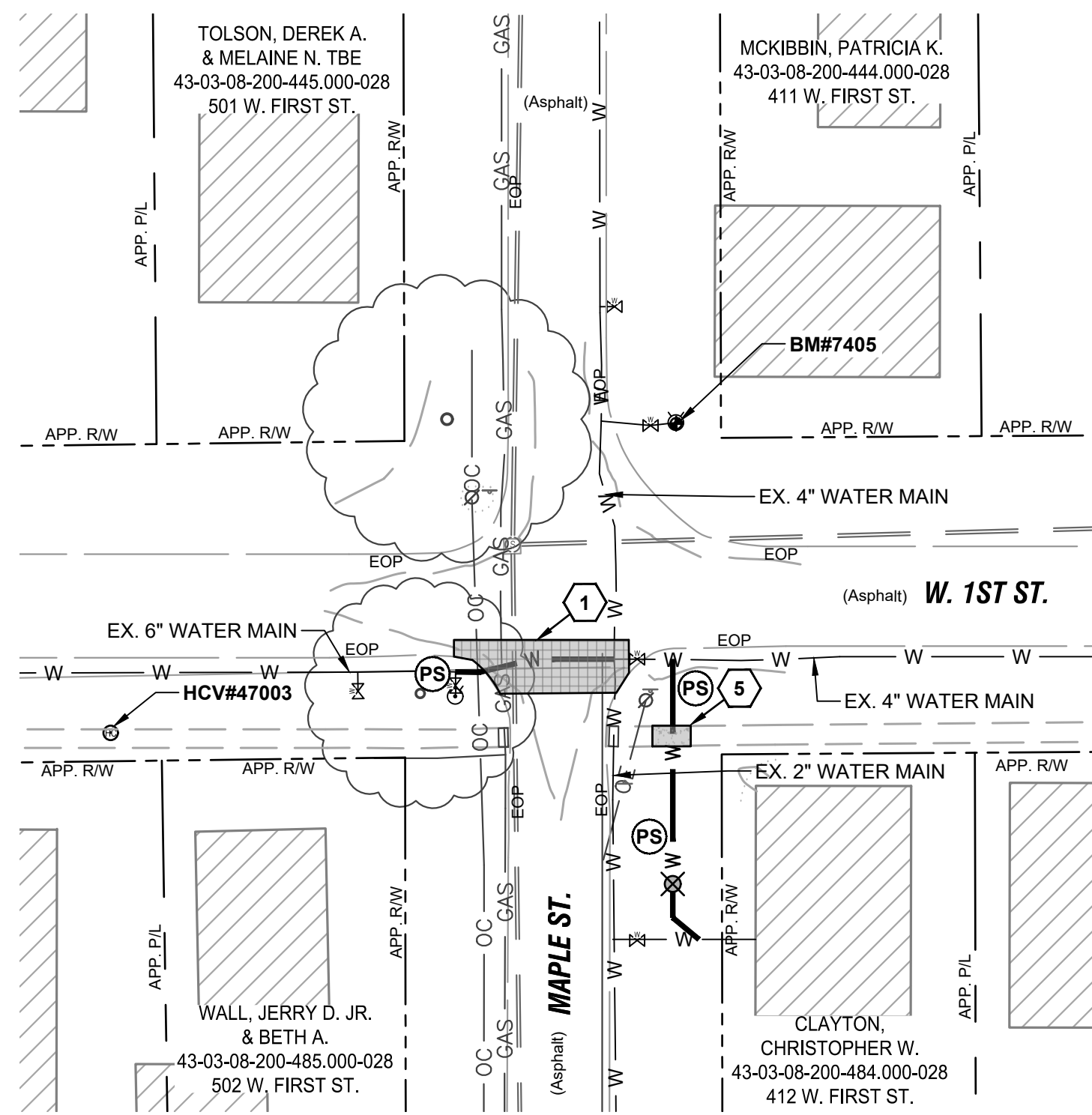
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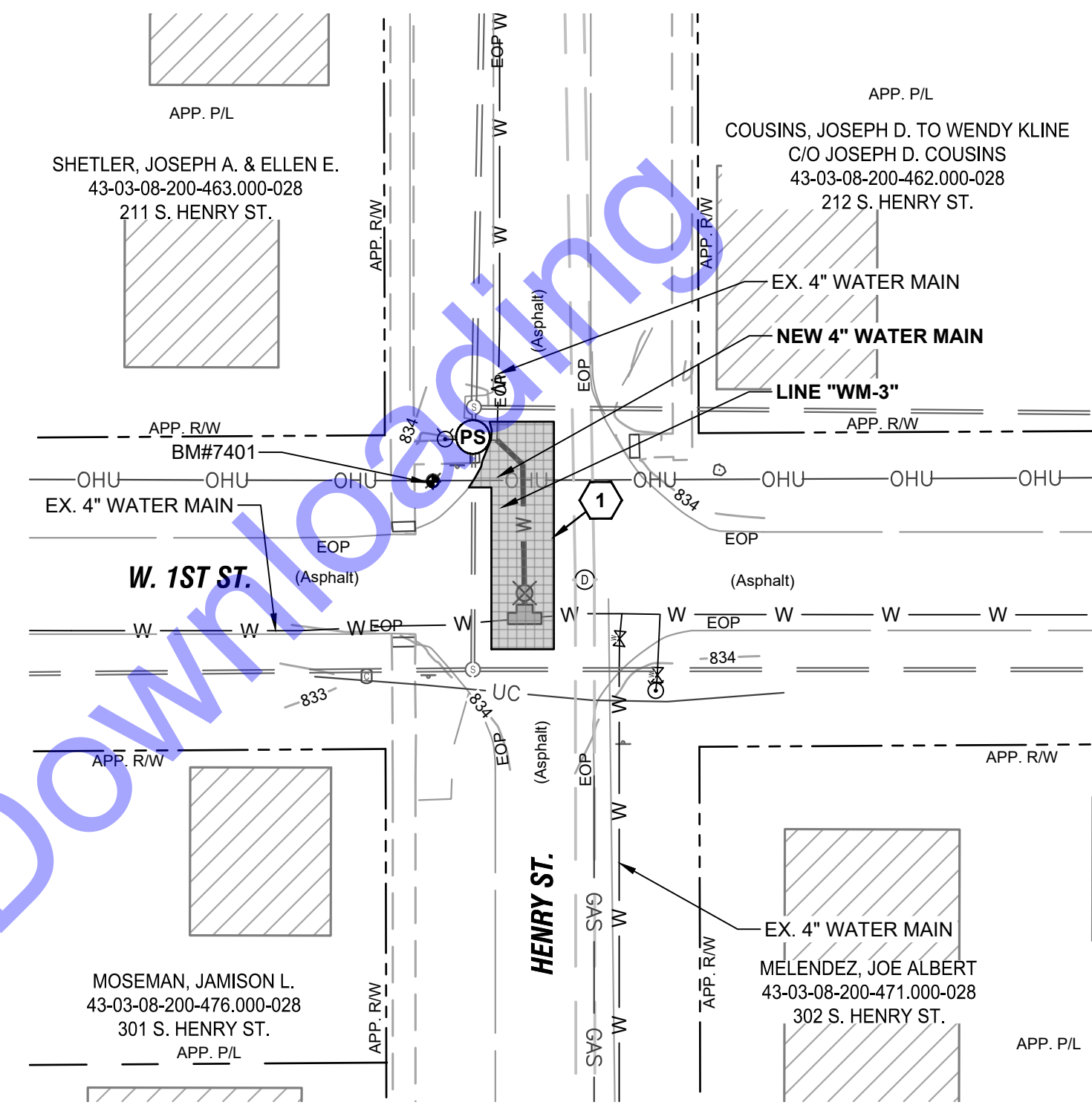
PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'



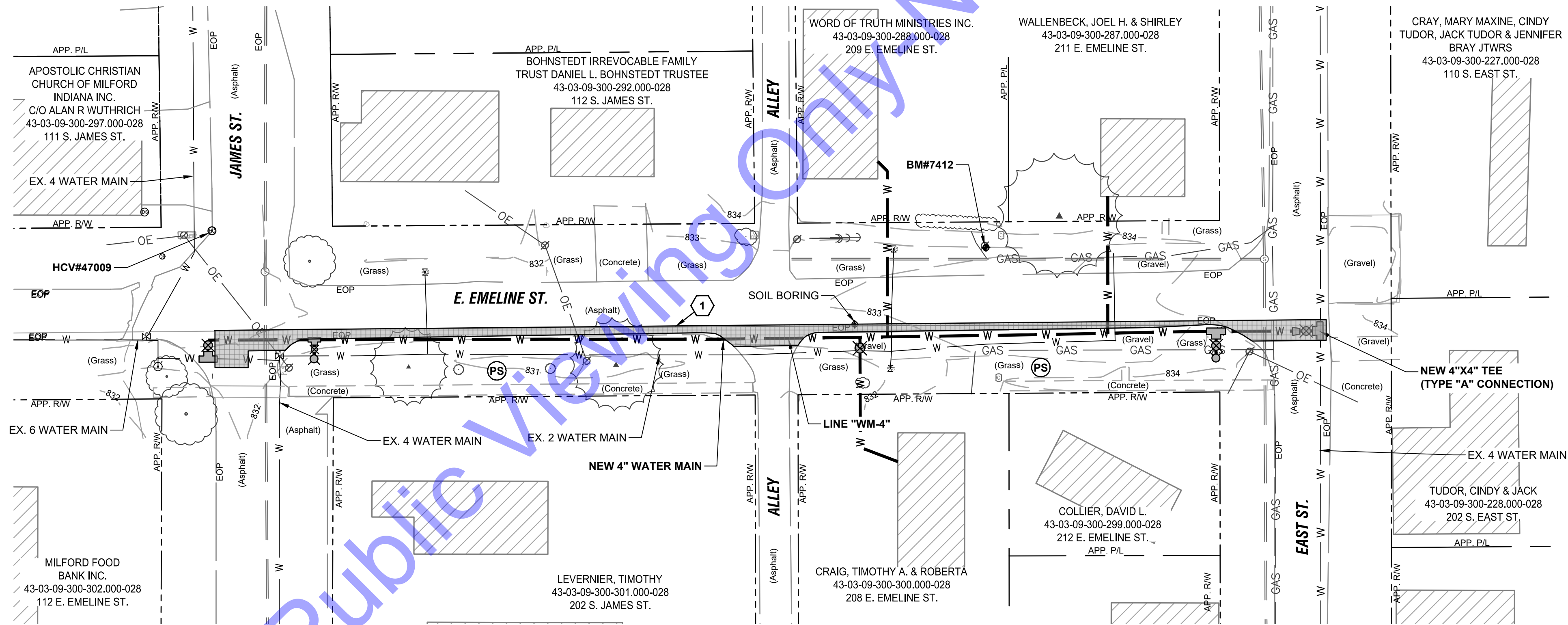
PLAN VIEW - LINE "WM-2"

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW - LINE "WM-3"

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW - LINE "WM-4"

SCALE: 1"=30'-0"
 0 30' 60'

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EROSION CONTROL LEGEND:

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- SILT FENCE
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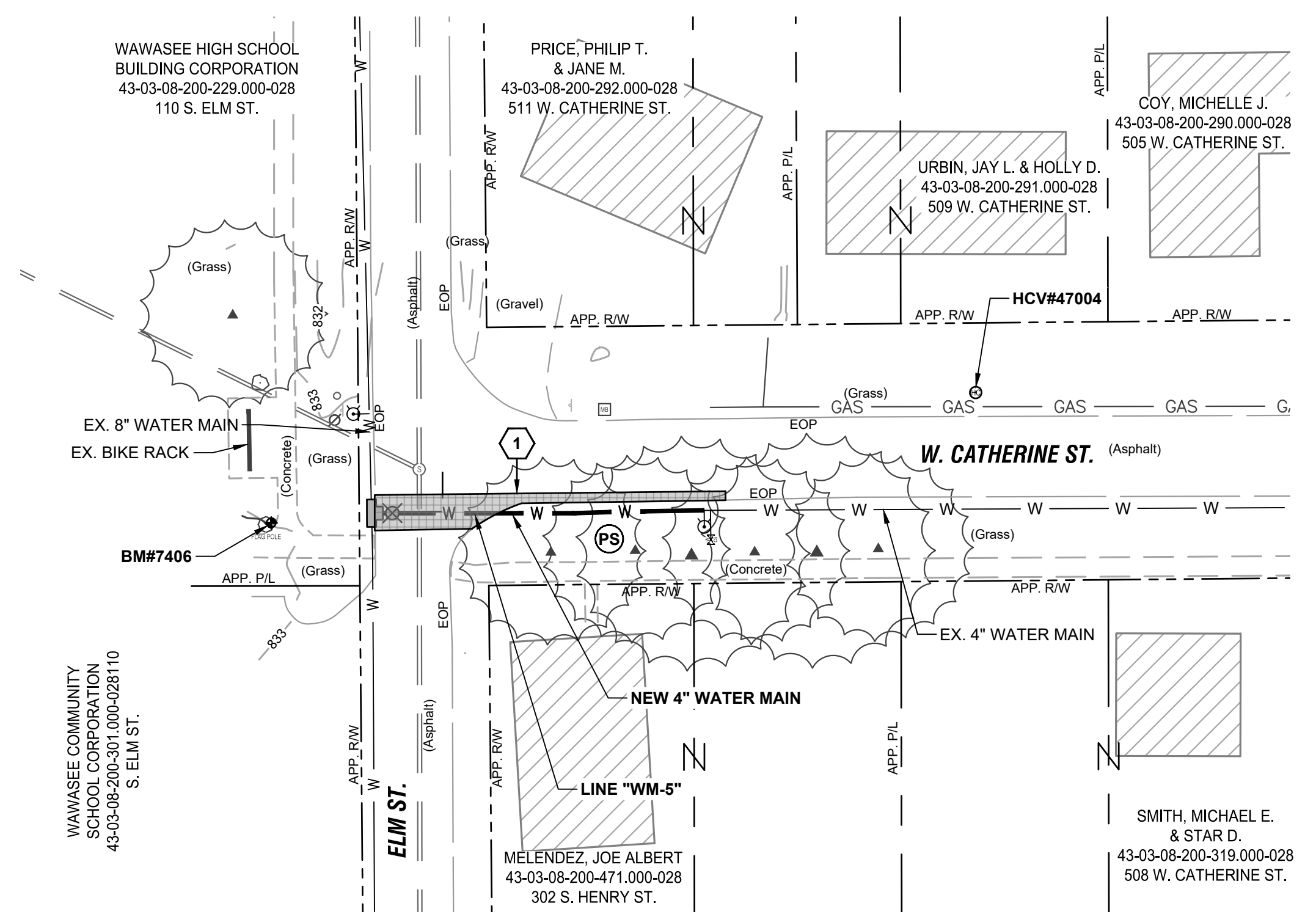
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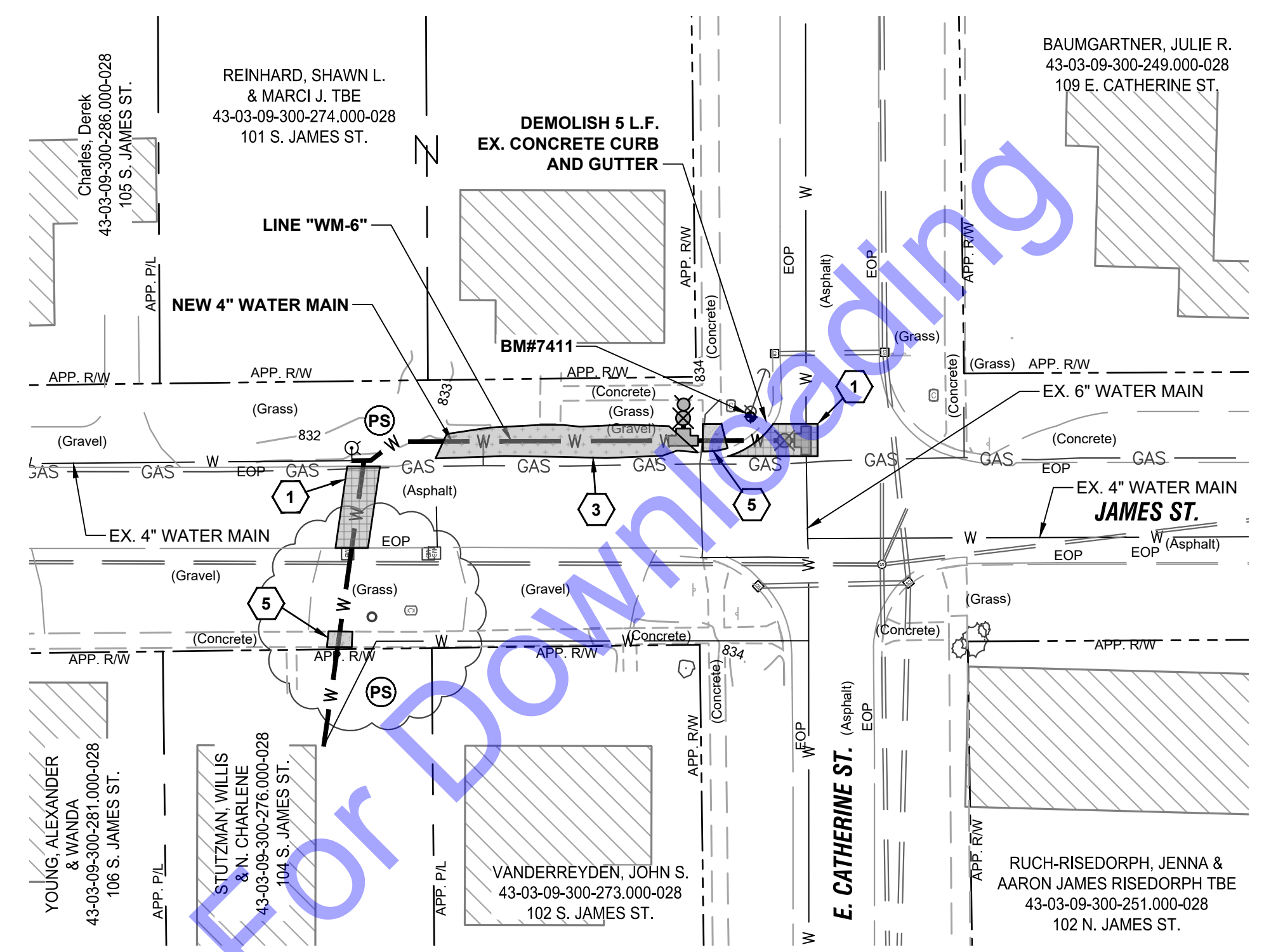
DEMOLITION AND EROSION CONTROL PLAN VIEWS

Drawing No:
DR2
 Sheet: 17 OF 49



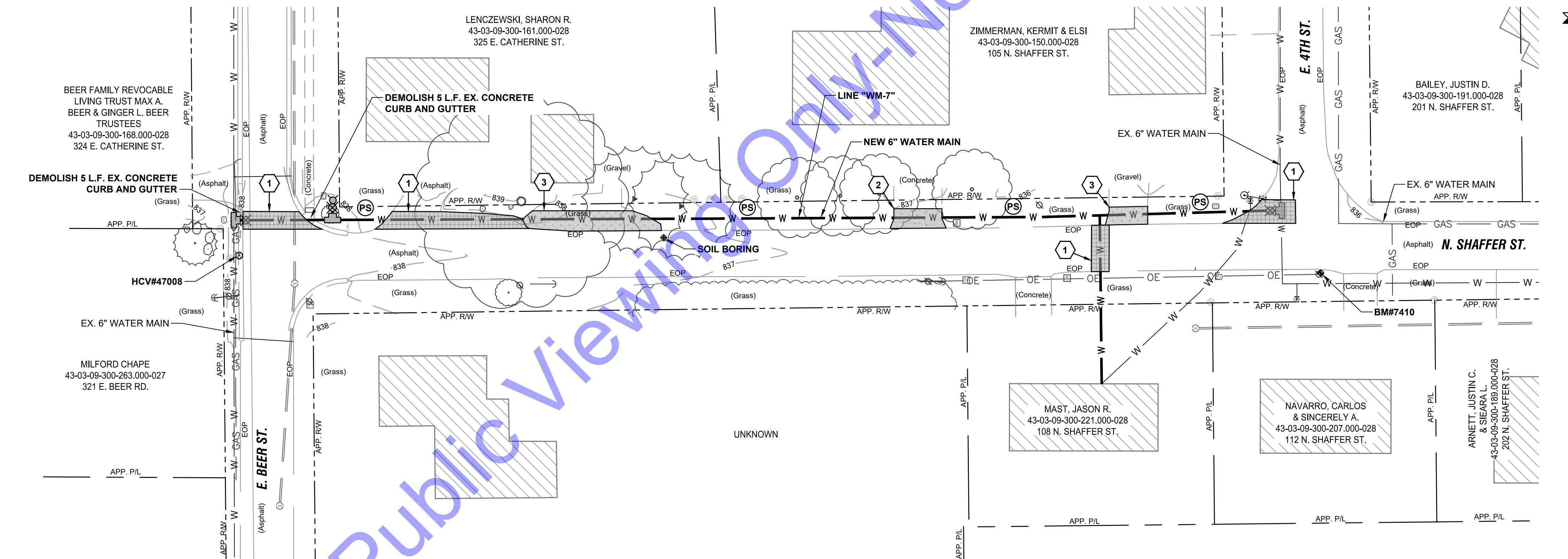
PLAN VIEW - LINE "WM-5"

SCALE: 1"=30'-0"
0 30' 60'



PLAN VIEW - LINE "WM-6"

SCALE: 1"=30'-0"
0 30' 60'



PLAN VIEW - LINE "WM-7"

SCALE: 1"=30'-0"
0 30' 60'

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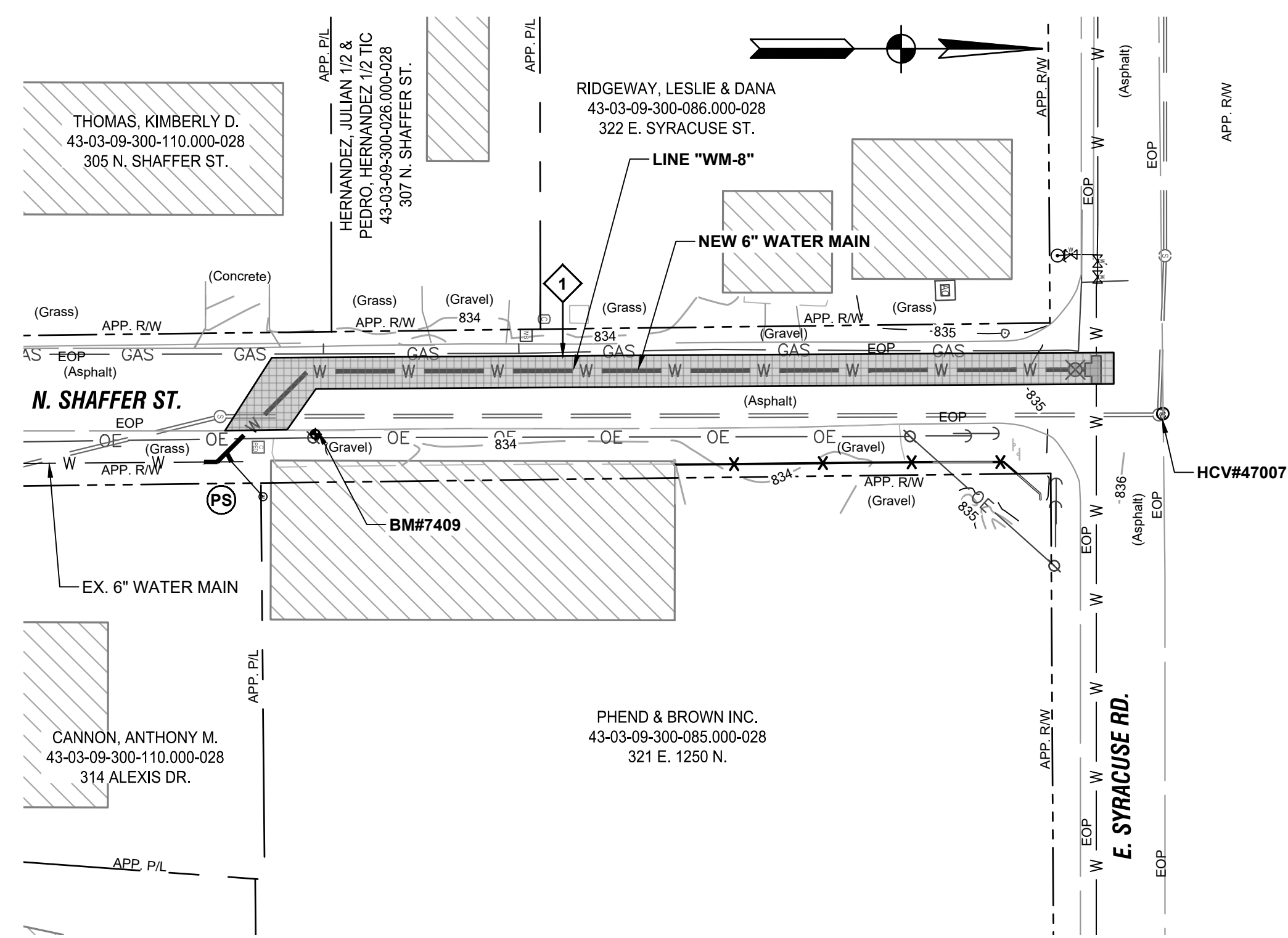
Designed By: RML	Drawn By: GRC	Checked By: JW
Issue Date: 1-14-25	Project No: W24161	Scale: AS SHOWN

DEMOLITION AND EROSION CONTROL PLAN VIEWS

Drawing No: **DR3**

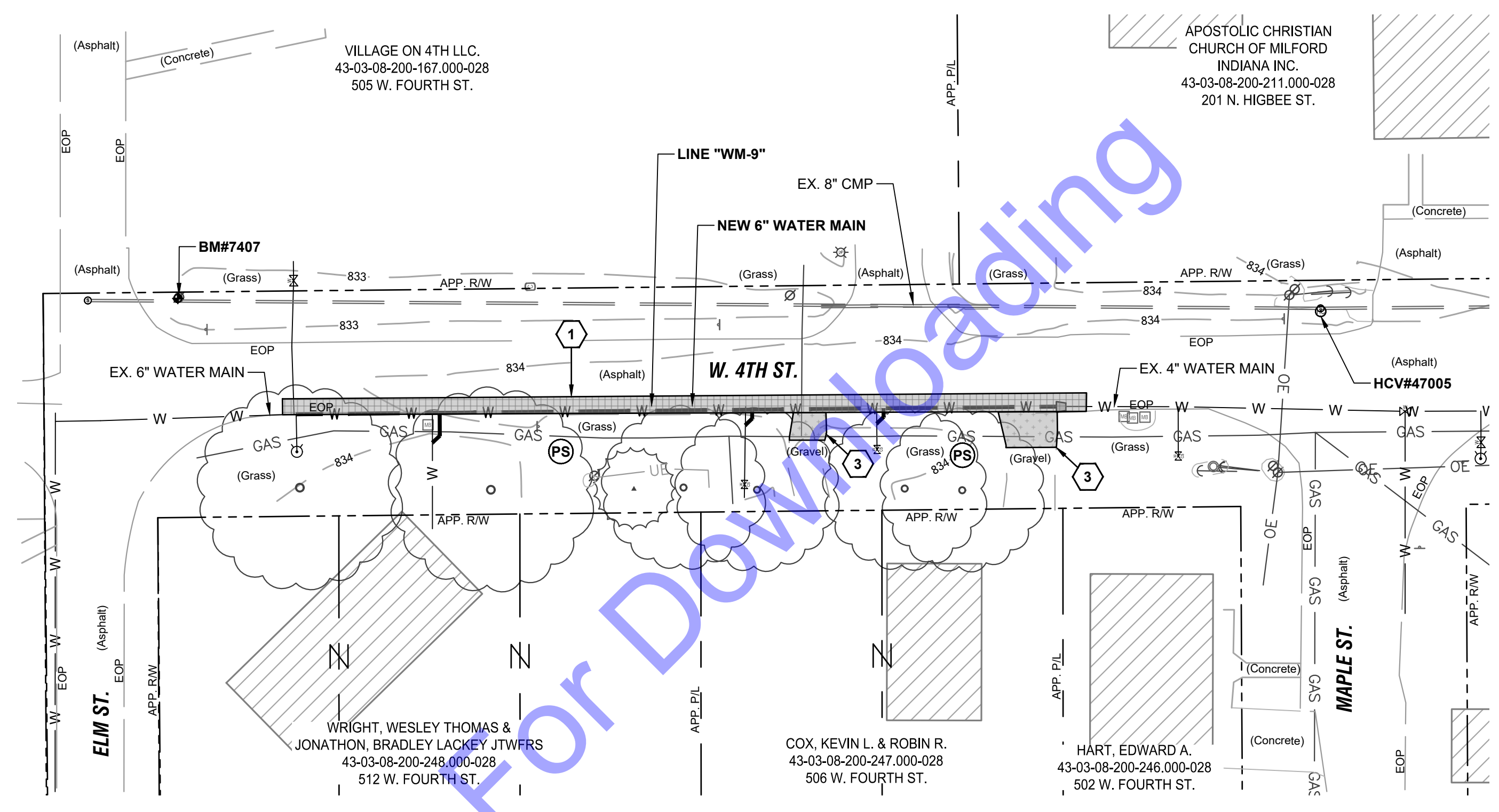
Sheet: 18 OF 49

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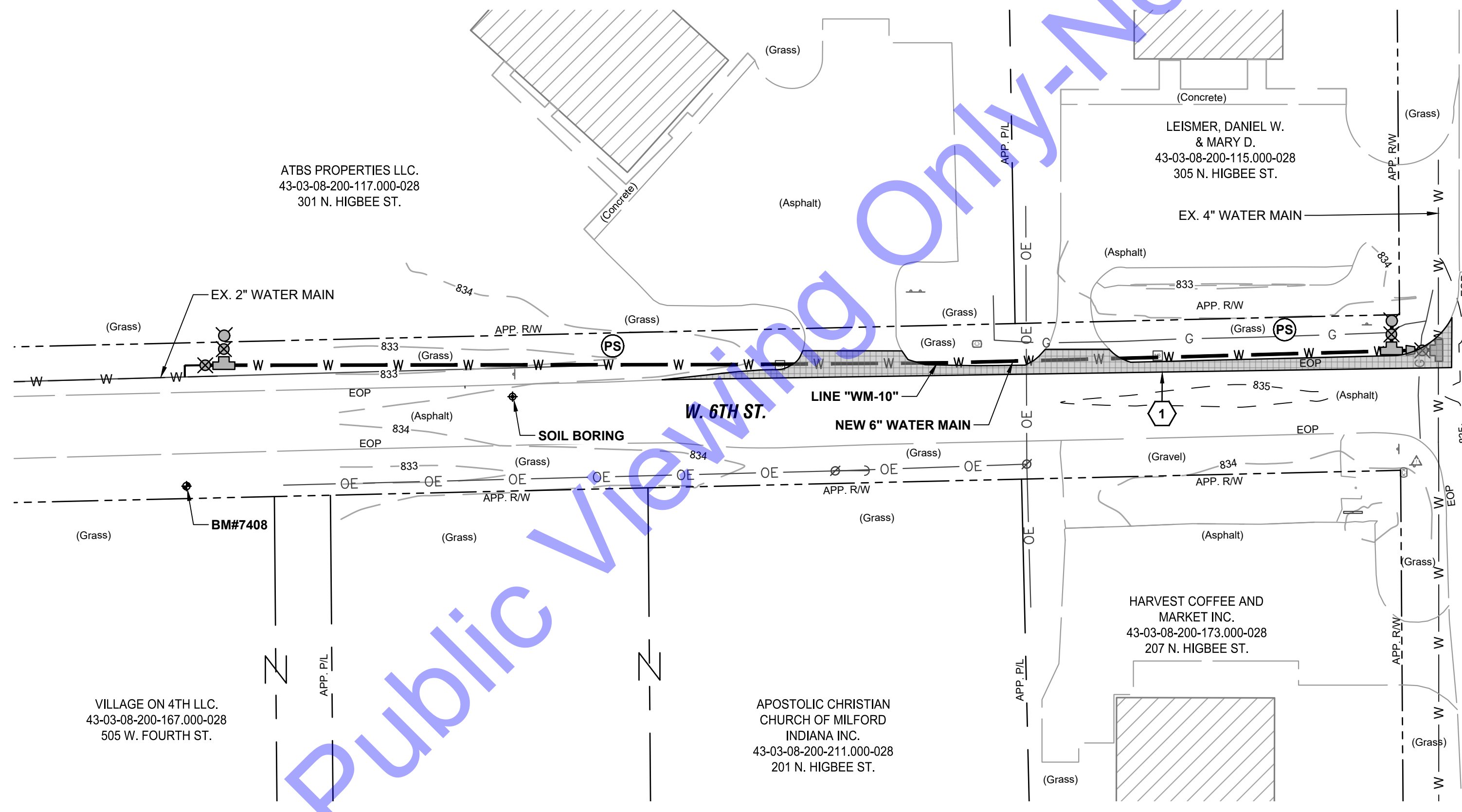
PLAN VIEW - LINE "WM-8"

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW - LINE "WM-9"

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW - LINE "WM-10"

SCALE: 1"=30'-0"
 0 30' 60'

DEMOLITION AND RESTORATION KEYNOTES:

- 1 REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
- 2 REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
- 3 REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

EROSION CONTROL LEGEND:

- 4 MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG. MD2).
- 5 REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD4).
- PS PERMANENT SEEDING
- SF SILT FENCE
- IP INLET PROTECTION

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS SPECIFIED IN THE DETAILED SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO CONCRETE WASHOUT STATIONS, TEMPORARY CONSTRUCTION ENTRANCES, TEMPORARY SEEDING, ETC. AS REQUIRED DURING THE DURATION OF THE PROJECT TO MAINTAIN COMPLIANCE WITH THE GENERAL STORM WATER CONSTRUCTION PERMIT. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE GENERAL STORM WATER CONSTRUCTION PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO THE REQUIRED AGENCIES.
- SEE DRAWING EC4 FOR EROSION CONTROL DETAILS.

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RYAN M. LAREAU
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 No. PE11800145
 Signature: [Signature] Date: 12-9-2024

TOWN OF MILFORD, KOSCIUSKO COUNTY, INDIANA
 WATER UTILITY IMPROVEMENTS DIVISION "B" - WATER MAIN AND SERVICE LINE IMPROVEMENTS

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DEMOLITION AND EROSION CONTROL PLAN VIEWS

Drawing No: **DR4**

Sheet: 19 OF 49

**STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B)
(CONTINUED)**

B6 RUNOFF CONTROL MEASURES:

DIVERSION DITCHES, SLOPE DRAINS, OR OTHER SIMILAR STRUCTURES FOR RUNOFF CONTROL ARE NOT ANTICIPATED FOR THIS PROJECT.

B7 STORMWATER OUTLET PROTECTION SPECIFICATIONS:

STORMWATER OUTLETS WILL BE PROVIDED WITH SILT FENCES, EROSION CONTROL BLANKETS, AND TEMPORARY AND PERMANENT SEEDING AS APPLICABLE.

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

GRADE STABILIZATION WILL BE REQUIRED AS NEEDED DURING CONSTRUCTION. GRADE STABILIZATION REQUIREMENTS ARE ESTABLISHED IN DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT).

SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. TEMPORARY SEEDING WILL TAKE PLACE AS SOON AS PRACTICABLE AFTER DISTURBED AREAS HAVE BEEN RESTORED TO THEIR REQUIRED GRADE OR HAVE BEEN DISTURBED AND NOT WORKED FOR SEVEN (7) DAYS OR MORE. BIODEGRADABLE MATTING OR NETTING MAY BE USED TO STABILIZE SOILS ON SLOPED AREAS AND SOME RECENTLY PLANTED AREAS TO PROTECT SEEDLINGS UNTIL THEY HAVE BECOME ESTABLISHED.

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS:

IF DEWATERING BECOMES NECESSARY ON SITE, THE FOLLOWING METHODS WILL BE USED:

EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES.

EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT. UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM, THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

1. ALLOW NO DISCHARGE OF VISIBLE SEDIMENT OR SOLIDS.
2. AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES.
3. DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES:

WORK WITHIN WATERBODIES IS NOT ANTICIPATED FOR THIS PROJECT.

B11 MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL MONITOR AND MANAGE PROJECT CONSTRUCTION AND STORMWATER ACTIVITIES THROUGH THE ADMINISTRATION OF A SELF-MONITORING PROGRAM (SMP). A TRAINED INDIVIDUAL SHALL SUBMIT WEEKLY SMP REPORTS, AND EVENT INSPECTION REPORTS AS REQUIRED WITHIN 24 HOURS OF EVERY 1/2" RAIN EVENT. INSPECTION WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL STRUCTURES TO ENSURE INTEGRITY AND EFFECTIVENESS. INSPECTIONS WILL ALSO BE PROVIDED FOR ALL DISTURBED AREAS THAT HAVE NOT ACHIEVED FINAL STABILIZATION, AND AT ALL POINTS OF DISCHARGE FROM THE CONSTRUCTION SITE. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR REQUIREMENTS REGARDING THE SMP REPORTS AND PROJECT MANAGEMENT LOG.

B12 PLANNED CONSTRUCTION SEQUENCE THAT DESCRIBES THE IMPLEMENTATION OF STORMWATER QUALITY MEASURES IN RELATION TO LAND DISTURBANCE:

A PRE-CONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND ANY LAND DISTURBANCE ACTIVITY. ATTENDEES TO THE PRE-CONSTRUCTION MEETING WILL INCLUDE REPRESENTATIVES OF THE CONTRACTOR, OWNER, ENGINEER, THE KOSCIUSKO COUNTY SOIL AND WATER CONSERVATION DISTRICT (SWCD) SHALL BE PROVIDED WITH A 48-HOUR NOTICE PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT.

THE NOTICE OF INTENT AND THE LOCATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE POSTED AT THE JOB SITE. THERE WILL BE FUEL CONTAINMENT AND CONCRETE WASHOUT PROVIDED ON-SITE, IF APPLICABLE.

PROJECT SEQUENCING WILL GENERALLY FOLLOW THE FOLLOWING STEPS:

1. ESTABLISH CONSTRUCTION ENTRANCE.
2. INSTALL PERIMETER PROTECTION (SILT FENCE, INLET PROTECTION).
3. TEMPORARY SEED AS NEEDED PER SPECIFICATIONS.
4. REMOVE TEMPORARY EROSION CONTROL MEASURES AS PERMANENT MEASURES ARE ESTABLISHED.

B13 PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT:

ALL PROPOSED IMPROVEMENTS ARE TAKING PLACE ON RIGHT-OF-WAY, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN. THE PROJECT AREA AND INDIVIDUAL AREA EROSION CONTROL IS DEPICTED IN PLANS.

B14 MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1:

AS DESCRIBED DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), THE CONTRACTOR WILL BE REQUIRED TO INSPECT EQUIPMENT REGULARLY TO AVOID UNNECESSARY LEAKS OR SPILLS. THE CONTRACTOR WILL ALSO BE REQUIRED TO PROVIDE SPILL KITS AND EQUIPMENT TO CONTAIN AND CLEAN UP AND PETROLEUM PRODUCTS OR OTHER UNDESIRABLE SPILLS WHICH MAY OCCUR DURING CONSTRUCTION.

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO INSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

IF A SPILL DOES OCCUR, SPILL REPORTING AND NOTIFICATION REQUIREMENTS WILL BE UNDERTAKEN IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND STATE REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RESPONSE PROCEDURES THAT WILL MINIMIZE GROUNDWATER AND SURFACE WATER IMPACTS.

CONTACT INFORMATION FOR LOCAL AND STATE AGENCIES TO BE CONTACTED IN THE EVENT OF A SPILL ARE AS FOLLOWS:

KOSCIUSKO COUNTY SOIL & WATER CONSERVATION DISTRICT
182 W. 300 N., SUITE D
ANDERSON, IN 46012
PHONE: 765-644-4249 EXT. 3

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
EMERGENCY RESPONSE AND SPILL REPORTING SECTION
PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY
INDIANA GOVERNMENT CENTER NORTH
100 N. SENATE AVENUE, ROOM N1255
INDIANAPOLIS, INDIANA 46204
PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF NATURAL RESOURCES
DISTRICT 4 HEADQUARTERS
PHONE: 765-649-1062

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC MANAGEMENT CENTER
PHONE: 317-899-8690

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY:

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO INSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

CONCRETE WASHOUT AREA LOCATIONS ARE ANTICIPATED AS NECESSARY FOR THIS PROJECT AND HAVE BEEN INCLUDED IN THE EROSION CONTROL SHEET SET.

STORMWATER POLLUTION PREVENTION - POST-CONSTRUCTION COMPONENT (SECTION C)

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

THE FINAL LAND USE IN DIVISION A IS PROPOSED TO CHANGE FORM THE EXISTING. THE NRCS HAS BEEN CONTACTED ABOUT THE CONVERSION OF FARMLAND TO URBAN DEVELOPED LAND. DIVISION B WILL NOT HAVE ANY LAND USE CHANGES. POTENTIAL POLLUTANTS FROM THIS PROJECT AFTER CONSTRUCTION IS COMPLETED INCLUDE SEDIMENT, HYDROCARBONS, AND LITTER.

SEDIMENT POLLUTION IS A RESULT OF EROSION WHICH CAN BE TRIGGERED BY NATURAL CAUSES OR HUMAN ACTIVITY. FOR THIS PROJECT, SEDIMENTATION MAY OCCUR DUE TO RUNOFF FROM EXCAVATED AREAS. SEDIMENT POLLUTION MAY ALSO BE CAUSED BY ON-SITE STORAGE OF EXCAVATED MATERIALS, BACKFILL MATERIALS, AND CONSTRUCTION SPILL AREAS. HYDROCARBON POLLUTION MAY OCCUR DUE TO LEAKAGE AND SPILLS FROM ITEMS SUCH AS GASOLINE, OIL, GREASE, VEHICLE BRAKE AND TRANSMISSION FLUIDS, ANTIFREEZE, AND COOLANTS. LITTER MAY OCCUR IN PROJECT AREAS DUE TO HUMAN ACTIVITIES AND INCLUDES PLASTIC BAGS, BOTTLES, ALUMINUM CANS, AND OTHER GENERAL GARBAGE.

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

POST-CONSTRUCTION MEASURES INCLUDE THE PROPOSED PERMANENT SEEDING. IMPERVIOUS SURFACE IS BEING ADDED FOR THE PROJECT BUT WILL HAVE INSIGNIFICANT EFFECTS ON THE RUNOFF RATE COMPARED TO PRE-CONSTRUCTION VALUES. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE REQUIRED TO BE RESTORED. REQUIREMENTS FOR PERMANENT SEEDING ARE REFERENCED IN WM-24 "SEEDING AND SODDING" SPECIFICATION.

C3 PLAN DETAILS FOR EACH STORMWATER QUALITY MEASURE:

DETAILS FOR POST-CONSTRUCTION MEASURES ARE SHOWN IN THE PLANS. TEMPORARY EROSION CONTROL MEASURES WILL NOT BE REMOVED UNTIL THE PERMANENT SEEDING HAS BEEN ESTABLISHED. REFER TO DS-09 "TEMPORARY EROSION AND SEDIMENT CONTROL" AND WM-24 "SEEDING AND SODDING".

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

POST-CONSTRUCTION SEQUENCING MEASURES FOR THIS PROJECT WILL BE AS FOLLOWS:

1. TEMPORARY PLANTINGS WILL BE PROVIDED IN CRITICAL AREAS DEVOID OF VEGETATION AND SUBJECT TO EROSION. SUCH TEMPORARY PLANTINGS MAY BE NECESSARY TO PROTECT AN AREA WHEN PREPARING FOR WINTER SHUT DOWN OR TO PROVIDE COVER WHEN PERMANENT SEEDLINGS ARE LIKELY TO FAIL DUE TO AN EXTENDED PERIOD OF HEAT OR DROUGHT.
2. REMOVAL AND CLEANUP OF ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE AND EROSION CONTROL BLANKET.
3. THE ENTIRE CONSTRUCTION AREA IS TO BE INSPECTED AND CLEANED, INCLUDING THE COLLECTION AND DISPOSAL OF CONSTRUCTION TRASH AND DEBRIS.
4. PERMANENT SEEDING AND MULCHING WILL BE INSTALLED IMMEDIATELY AFTER ACHIEVING FINAL GRADE OR WITHIN SEVEN (7) DAYS OF INACTIVITY. IF NECESSARY, A TEMPORARY STABILIZATION PRACTICE WILL BE EMPLOYED UNTIL THE NEXT PRIME SEEDING PERIOD.
5. A FINAL SITE INSPECTION WILL TAKE PLACE TO ASSURE THAT ALL REQUIREMENTS OF THE SWPPP, CONSTRUCTION DRAWINGS, AND SUPPORTING DOCUMENTS HAVE BEEN FULFILLED.

C5 MAINTENANCE GUIDELINES FOR PROPOSED POST-CONSTRUCTION WATER QUALITY MEASURES:

VEGETATED AREAS WITHIN THE PROJECT BOUNDARIES MUST BE MAINTAINED ON A REGULAR BASIS DURING THE ACTIVE GROWING SEASON. MAINTENANCE ACTIVITIES WILL INCLUDE INSPECTION FOR SPARSELY SEEDED AREAS, AND RESEEDING AREAS WHICH HAVE BEEN DAMAGED, OR WHICH HAVE NOT EXHIBITED A SUCCESSFUL AND HARDY STAND OF VEGETAL COVER. FERTILIZATION AND WATERING REQUIREMENTS ARE PROVIDED IN WM-24 "SEEDING AND SODDING".

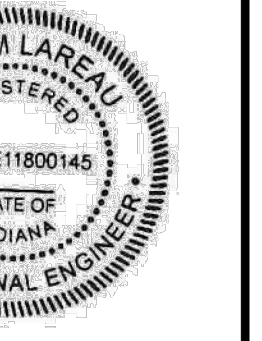
C6 ENTITY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES:

THE TOWN OF MILFORD WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF POST-CONSTRUCTION STORMWATER MEASURES AFTER THE NOTICE OF TERMINATION (NOT) HAS BEEN RECEIVED BY THE IDEM.

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OFFICE LOCATIONS IN:
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EVANSVILLE, IN
FORT WAYNE, IN
CROWN POINT, IN
BOWLING GREEN, KY
SOUTH BEND, IN

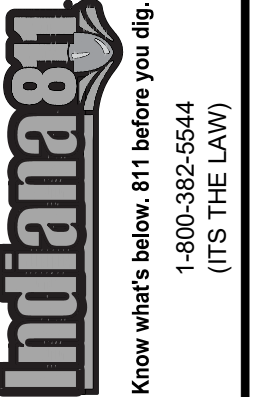


Signature Date 12-9-2024

**TOWN OF MILFORD
KOSCIUSKO COUNTY,
INDIANA**

**WATER UTILITY IMPROVEMENTS
DIVISION "B" - WATER MAIN AND
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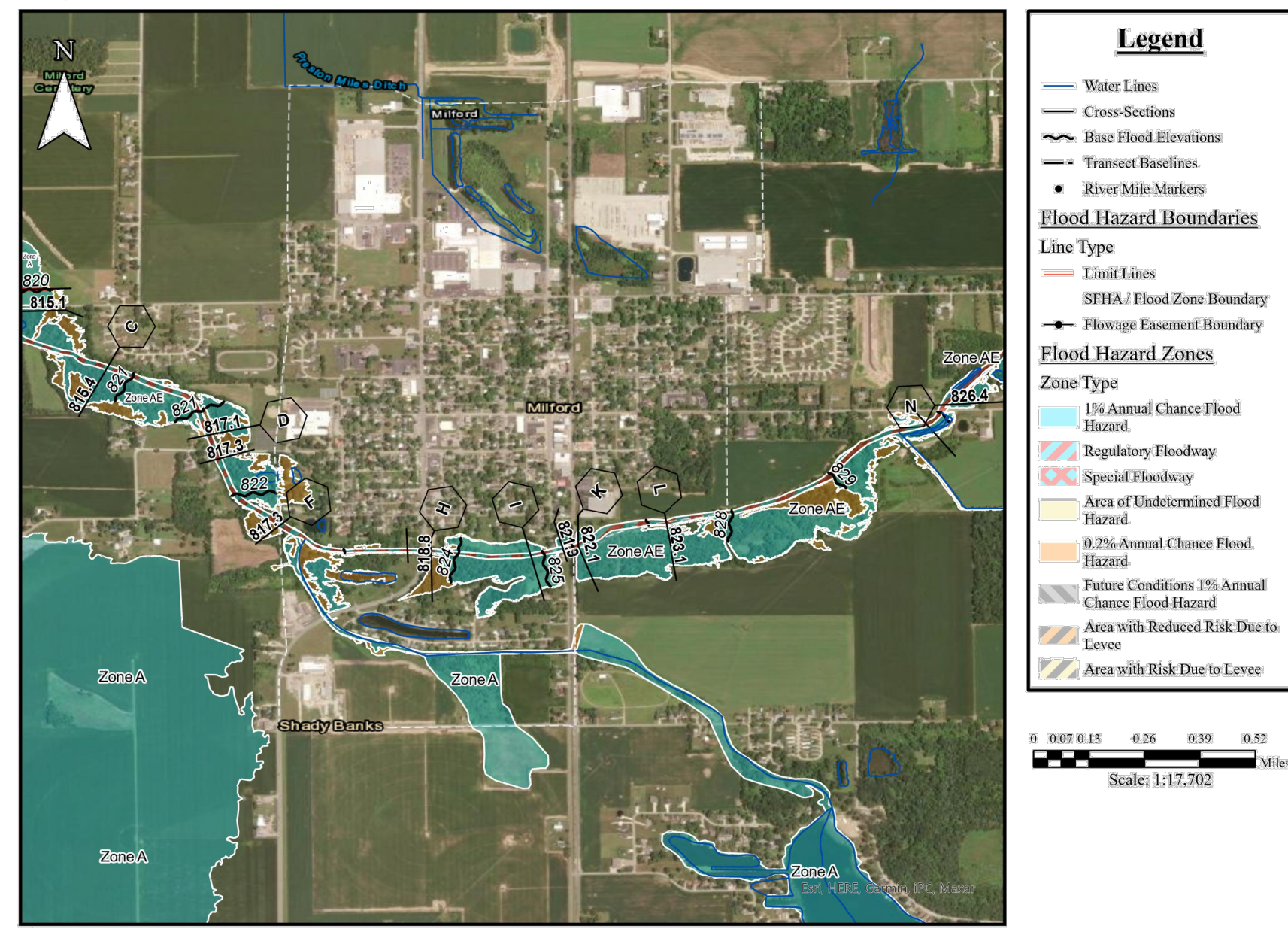
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STORMWATER POLLUTION PREVENTION PLAN

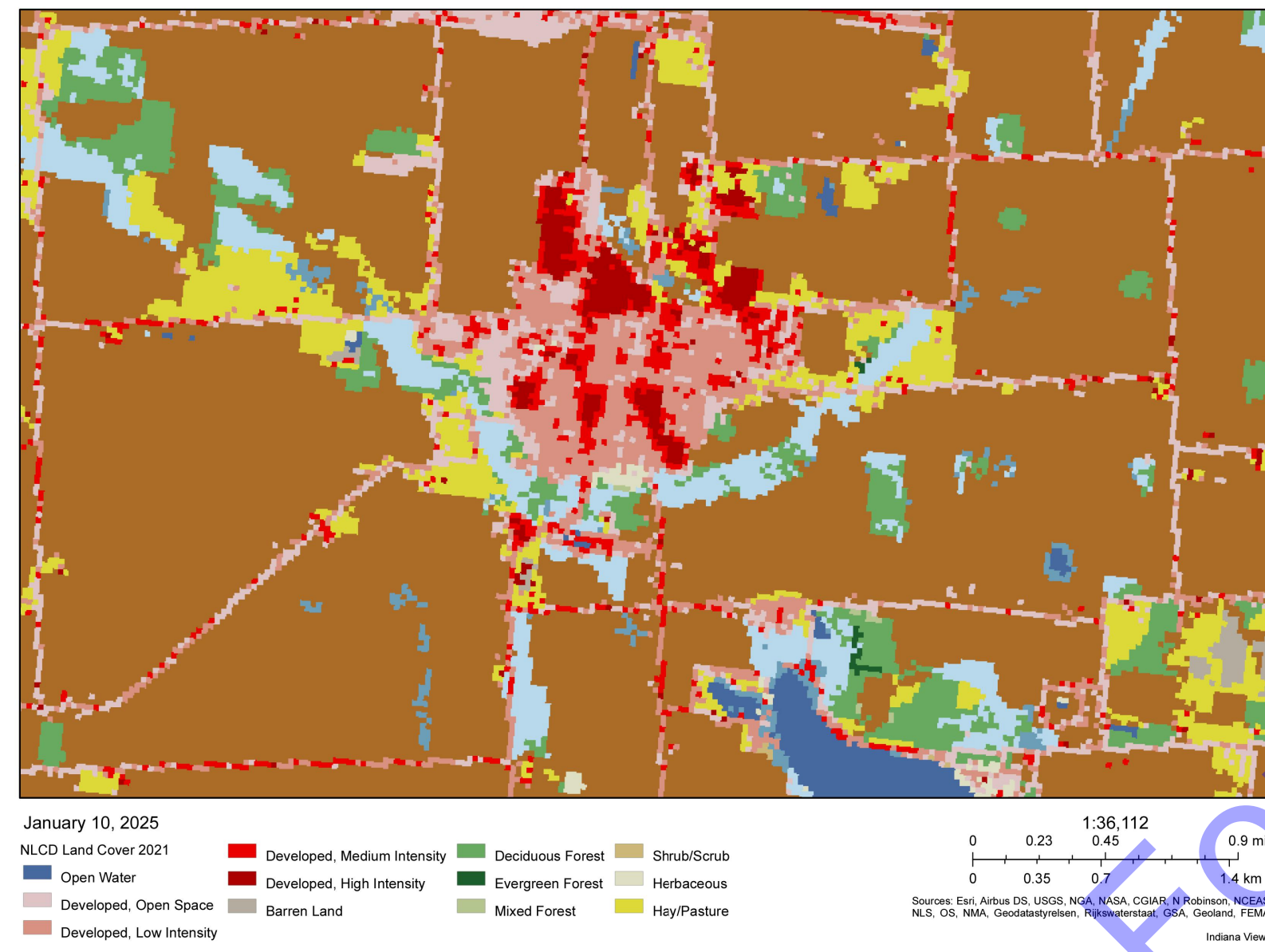
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FEMA's National Flood Hazard Layer (NFHL)

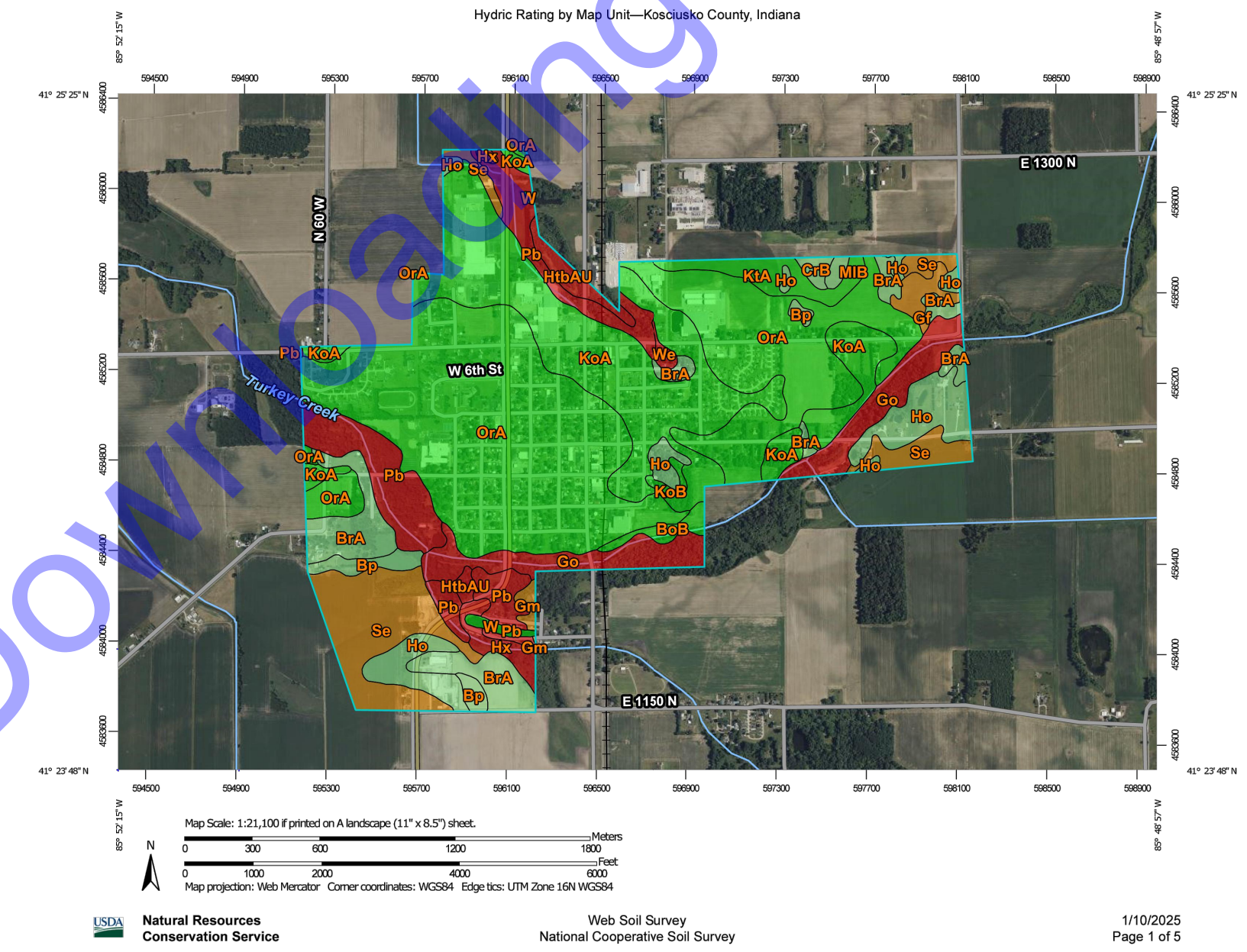


FLOODPLAIN MAP

Land Use

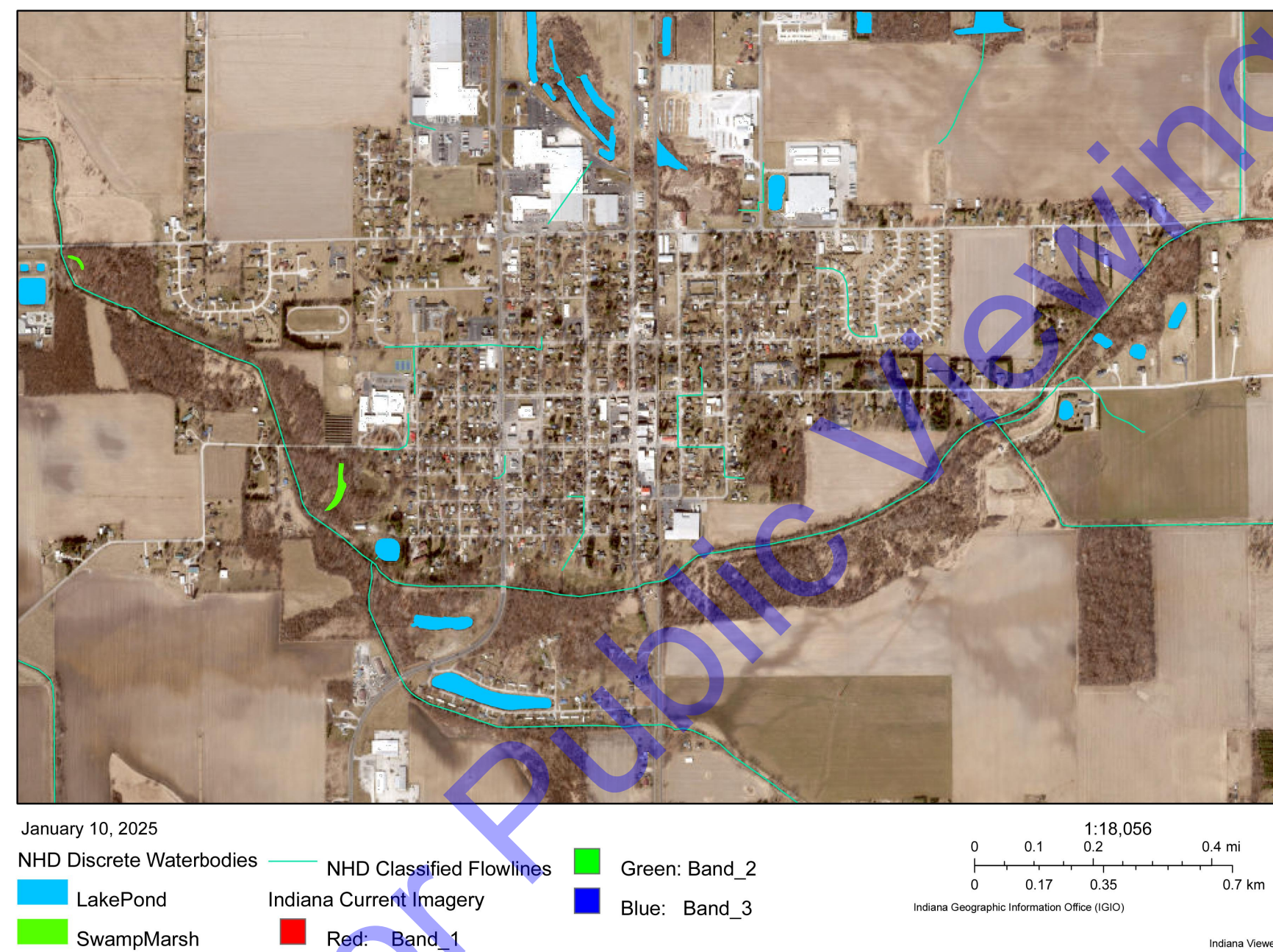


LAND USE MAP



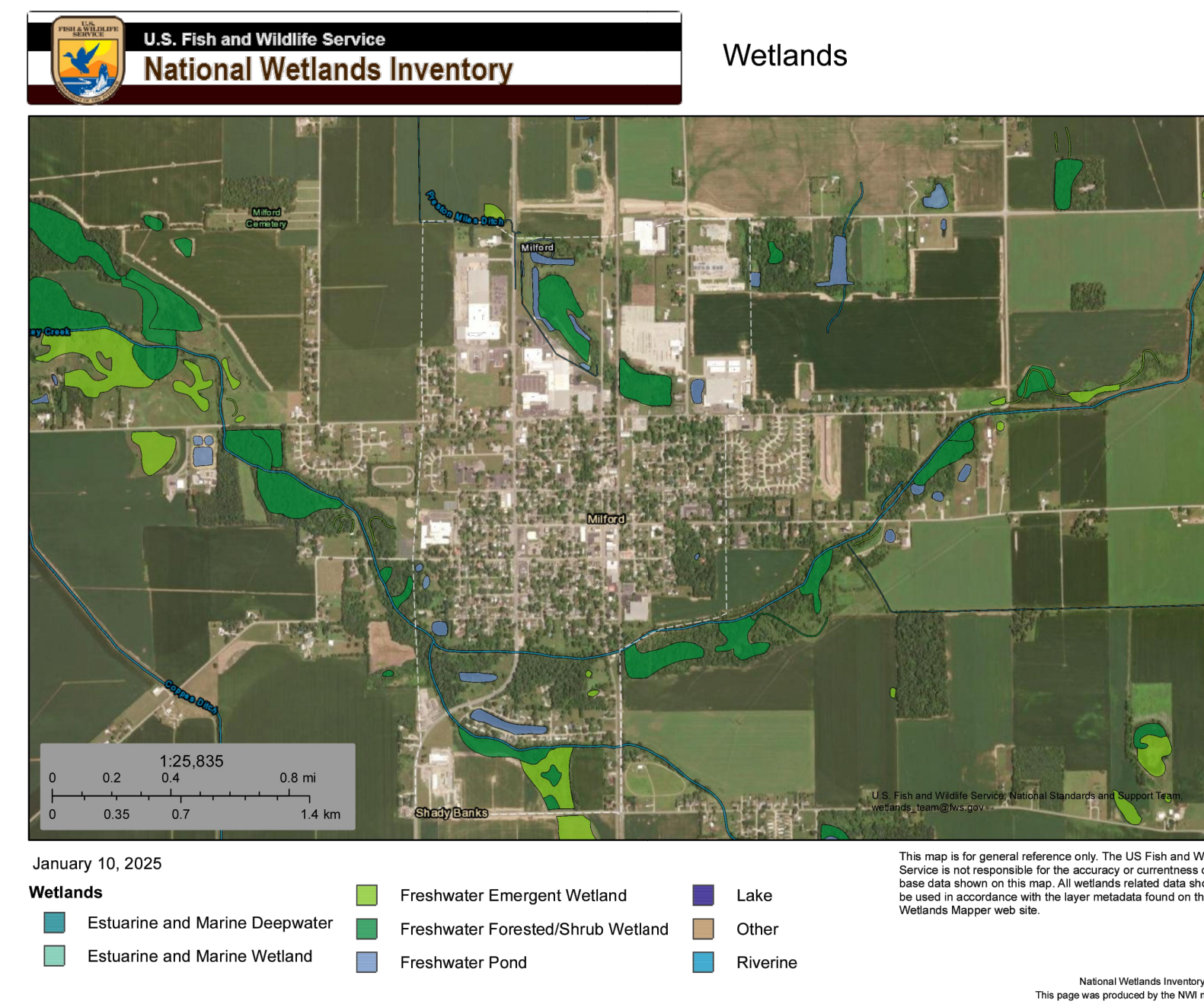
HYDRIC SOILS MAP

Surface Waters



SURFACE WATERS MAP

Wetlands



WETLANDS MAP

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FORT WAYNE, IN
CROWN POINT, IN
BOWLING GREEN, KY
SOUTH BEND, IN

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RYAN M. LAREAU
REGISTERED PROFESSIONAL ENGINEER
No. PE11800145
STATE OF INDIANA

Signature: _____ Date: 12-9-2024

TOWN OF MILFORD, KOSCIUSKO COUNTY, INDIANA

WATER UTILITY IMPROVEMENTS
DIVISION "B" - WATER MAIN AND SERVICE LINE IMPROVEMENTS

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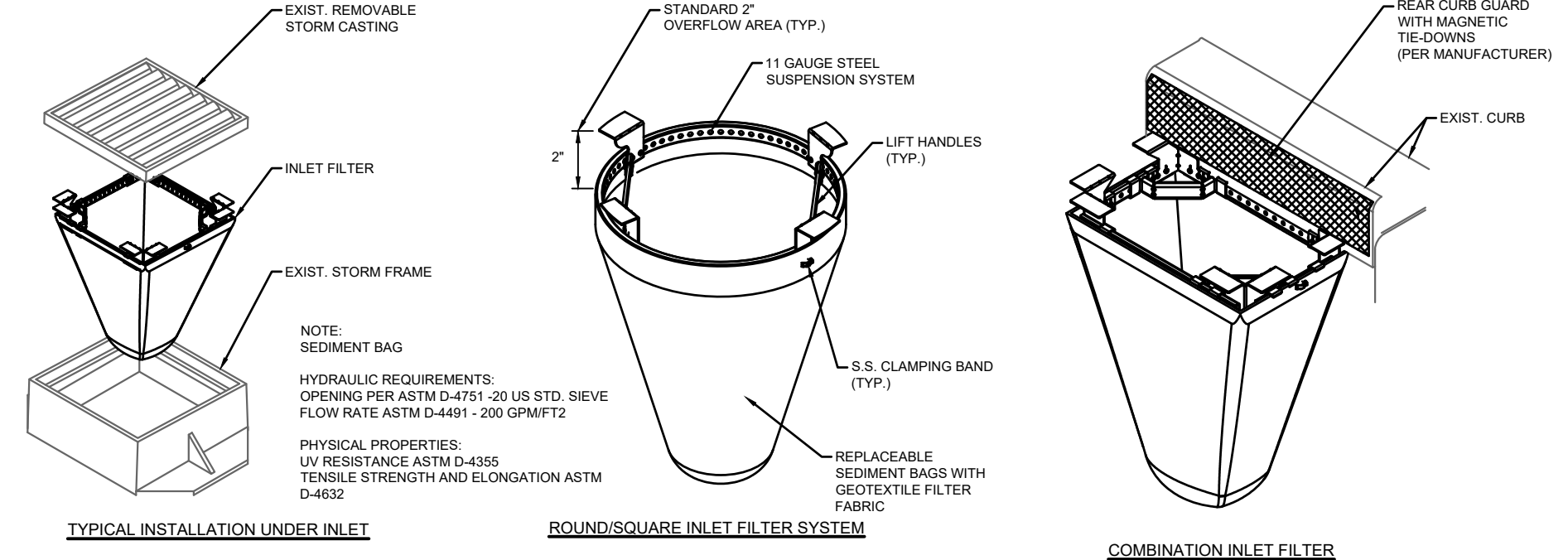
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STORMWATER POLLUTION PREVENTION PLAN

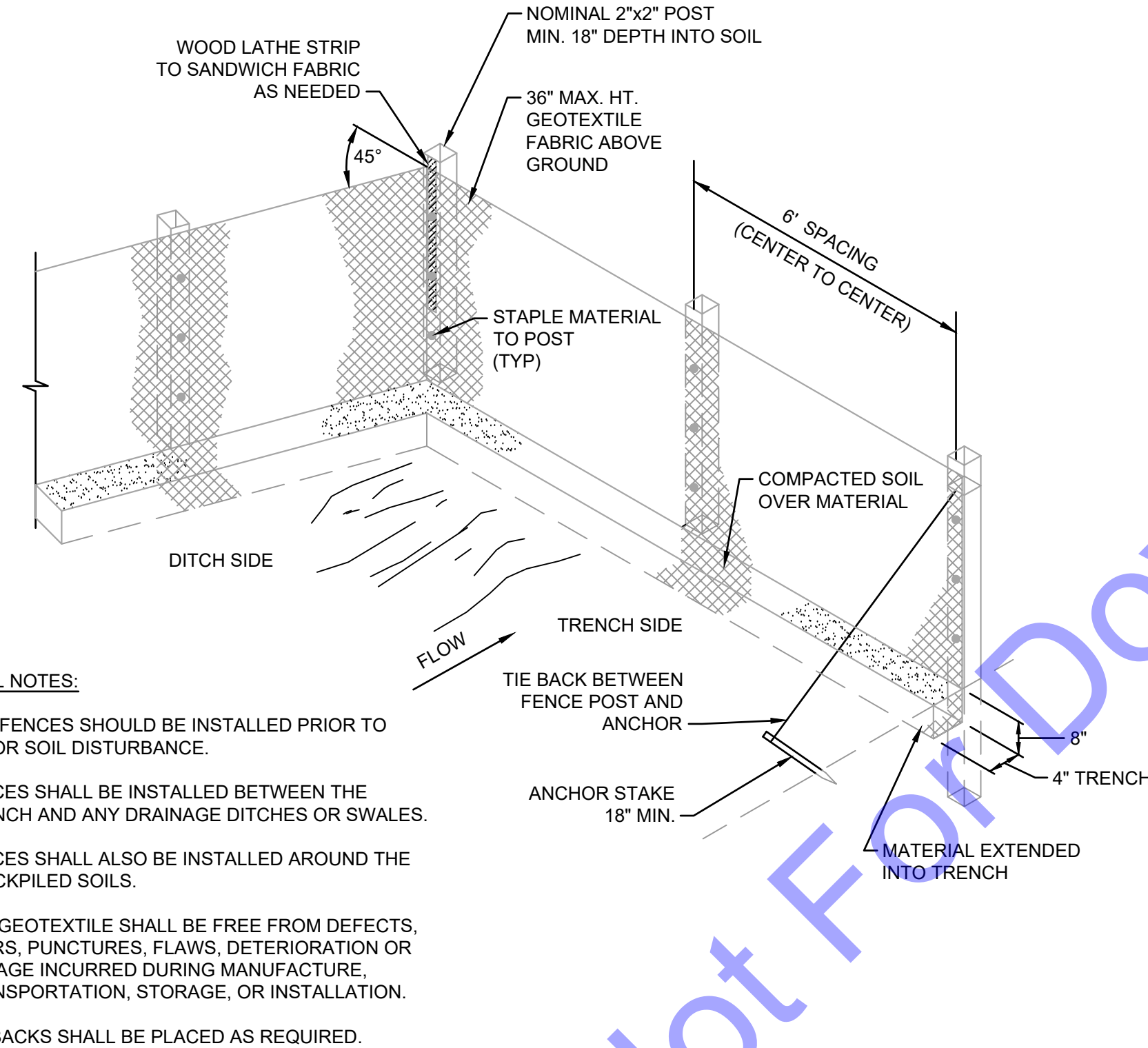
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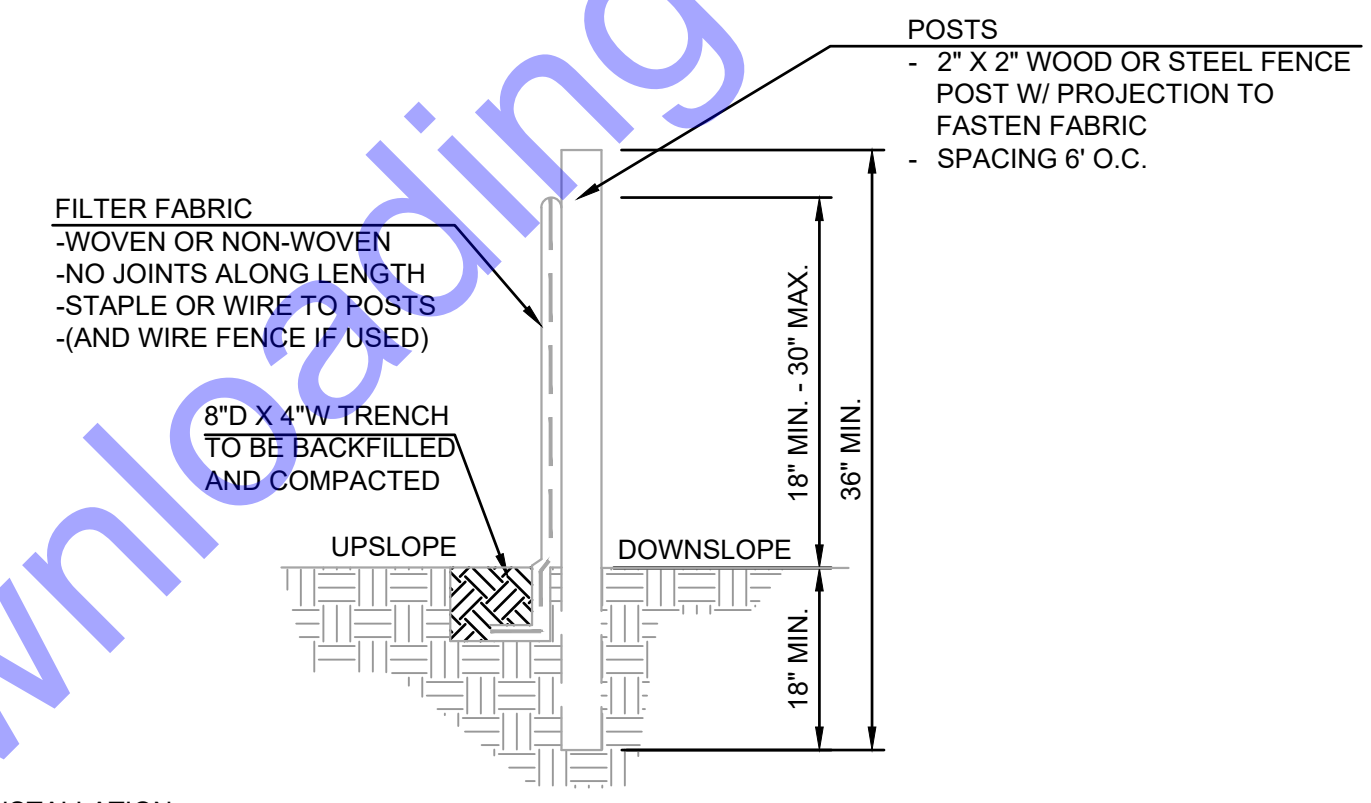
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- GENERAL NOTES:**
- TO BE INSTALLED AT EXISTING STANDARD INLET GRATES IN PAVED AREAS DOWNSTREAM OF EXCAVATION.
 - INSTALL INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE AND PER MANUFACTURER'S RECOMMENDATIONS.
 - FOR CURB BOX INLETS, CURB BACK MUST HAVE FILTER ATTACHED PER MANUFACTURER'S RECOMMENDATION OR CONTRACTOR MUST CREATE A DAM TO DIRECT RUNOFF INTO THE SEDIMENT BAG.
- INLET FILTER EROSION CONTROL DETAIL FOR STANDARD SIZED STORM STRUCTURES**
 NOT TO SCALE

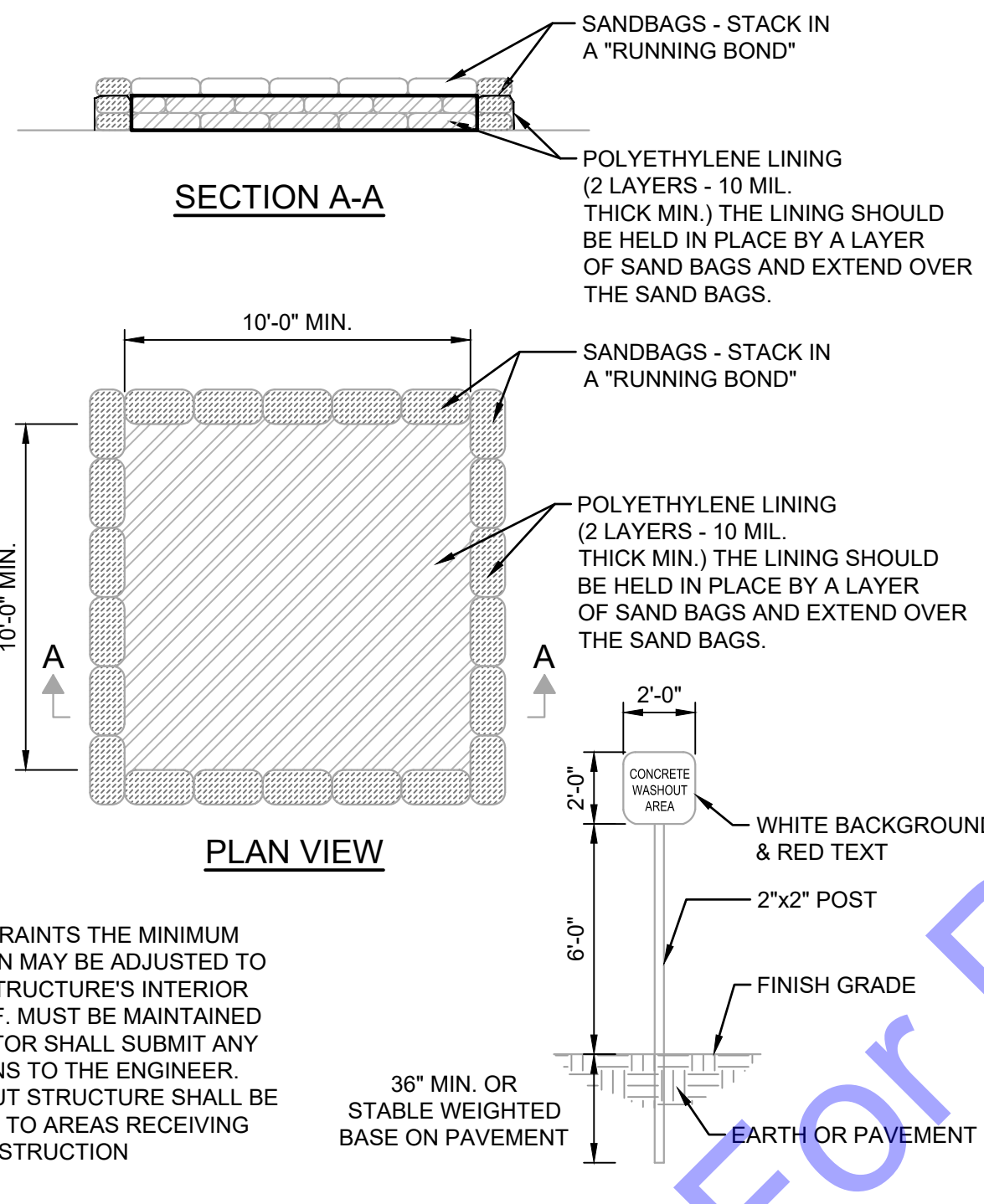


- GENERAL NOTES:**
- SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE.
 - FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
 - FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
 - THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
 - TIE BACKS SHALL BE PLACED AS REQUIRED.



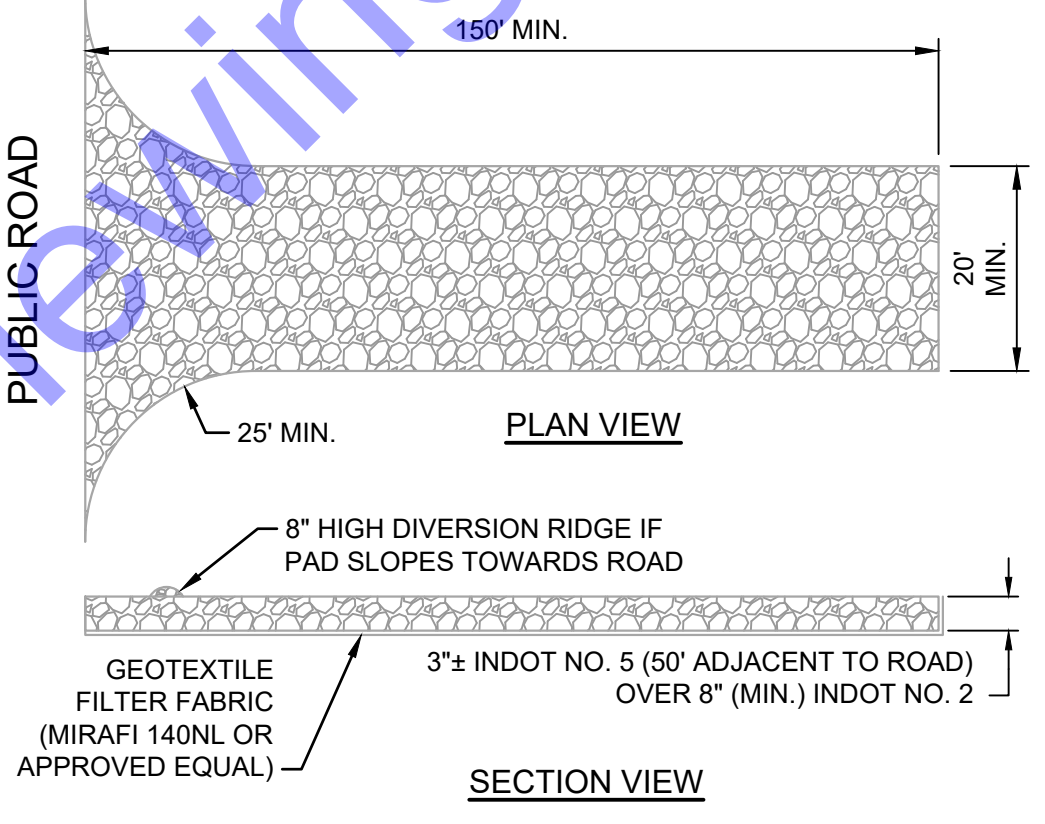
- INSTALLATION:**
- THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
 - FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
 - IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.
- MAINTENANCE:**
- INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
 - IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
 - REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
 - TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
 - AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SILT FENCE DETAIL
 SCALE: 1"=5'-0"



NOTE:
 DUE TO SITE CONSTRAINTS THE MINIMUM INTERIOR DIMENSION MAY BE ADJUSTED TO FIT THE SITE. THE STRUCTURE'S INTERIOR FOOTAGE OF 100 S.F. MUST BE MAINTAINED AND THE CONTRACTOR SHALL SUBMIT ANY DESIGN ALTERATIONS TO THE ENGINEER. CONCRETE WASHOUT STRUCTURE SHALL BE RE-LOCATED CLOSE TO AREAS RECEIVING CONCRETE, AS CONSTRUCTION PROGRESSES.

CONCRETE WASHOUT PIT DETAIL
 SCALE: 1"=5'-0"



- MAINTENANCE:**
- INSPECT DAILY, AND AFTER EACH STORM EVENT OR HEAVY USE.
 - RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 - TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT CONSTRUCTION.
 - IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER UNLESS WATER IS CONVEYED TO SEDIMENT TRAP.)
 - REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
 SCALE: 1"=5'-0"

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL EROSION AND SEDIMENT CONTROL ORDINANCE, OR SWCD.
- THE NOTICE OF INTENT (NOI) AND PUBLIC NOTICE FOR THE PROJECT SHALL BE POSTED ON A SIGN INSTALLED AT OR NEAR THE SITE CONSTRUCTION TRAILER. THE NOI SHALL LIST THE CONTACT INFORMATION FOR THE SITE CONTACT PERSON. THE SIGN AND INFORMATION SHALL BE MAINTAINED AND REMAIN LEGIBLE THROUGHOUT CONSTRUCTION.
- A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE EROSION AND SEDIMENT CONTROL REPORT SHALL BE AVAILABLE AT THE PROJECT SITE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE SO THEY WILL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.
- PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENT. ALL SEDIMENT THAT IS CLEARED MUST BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER SUITABLE LOCATION. CLEARING OF LARGE AMOUNTS OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER.
- MINIMIZE THE EXPOSURE OF BARE EARTH BY LIMITING THE WORK AREA TO THAT NECESSARY TO PERFORM THE WORK, AND BY PROPER SCHEDULING OF MANPOWER AND EQUIPMENT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, CLEANED, AND MAINTAINED FOLLOWING EACH STORM EVENT.
- WHEREVER POSSIBLE, MAINTAIN EXISTING VEGETATIVE COVER. USE NON-VEGETATIVE MATERIAL INCLUDING MULCH, EROSION BLANKETS, OR STONE TO CONTROL EROSION FROM DISTURBED AREAS.
- A LOG SHALL BE MAINTAINED OF ALL INSPECTIONS (WEEKLY, AND FOLLOWING STORM EVENTS), MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL MEASURES. THE LOG SHALL BE MAINTAINED ON SITE AND BE AVAILABLE UPON REQUEST TO THE OWNERS REPRESENTATIVES AND THE OPERATING AUTHORITIES HAVING JURISDICTION OVER THE SITE.

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 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 No. PE11800145

 Signature: *[Signature]* Date: 12-9-2024

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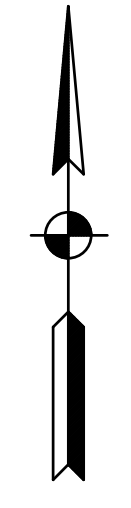
**EROSION CONTROL
 DETAILS**

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PLAN VIEW
 SCALE: 1"=200'-0"
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[Signature]
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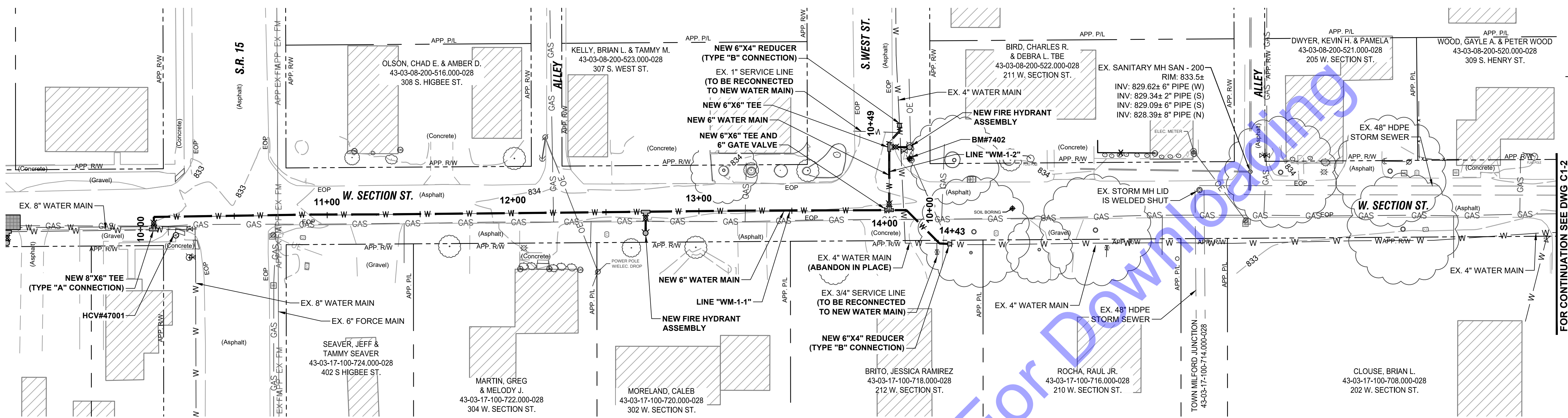
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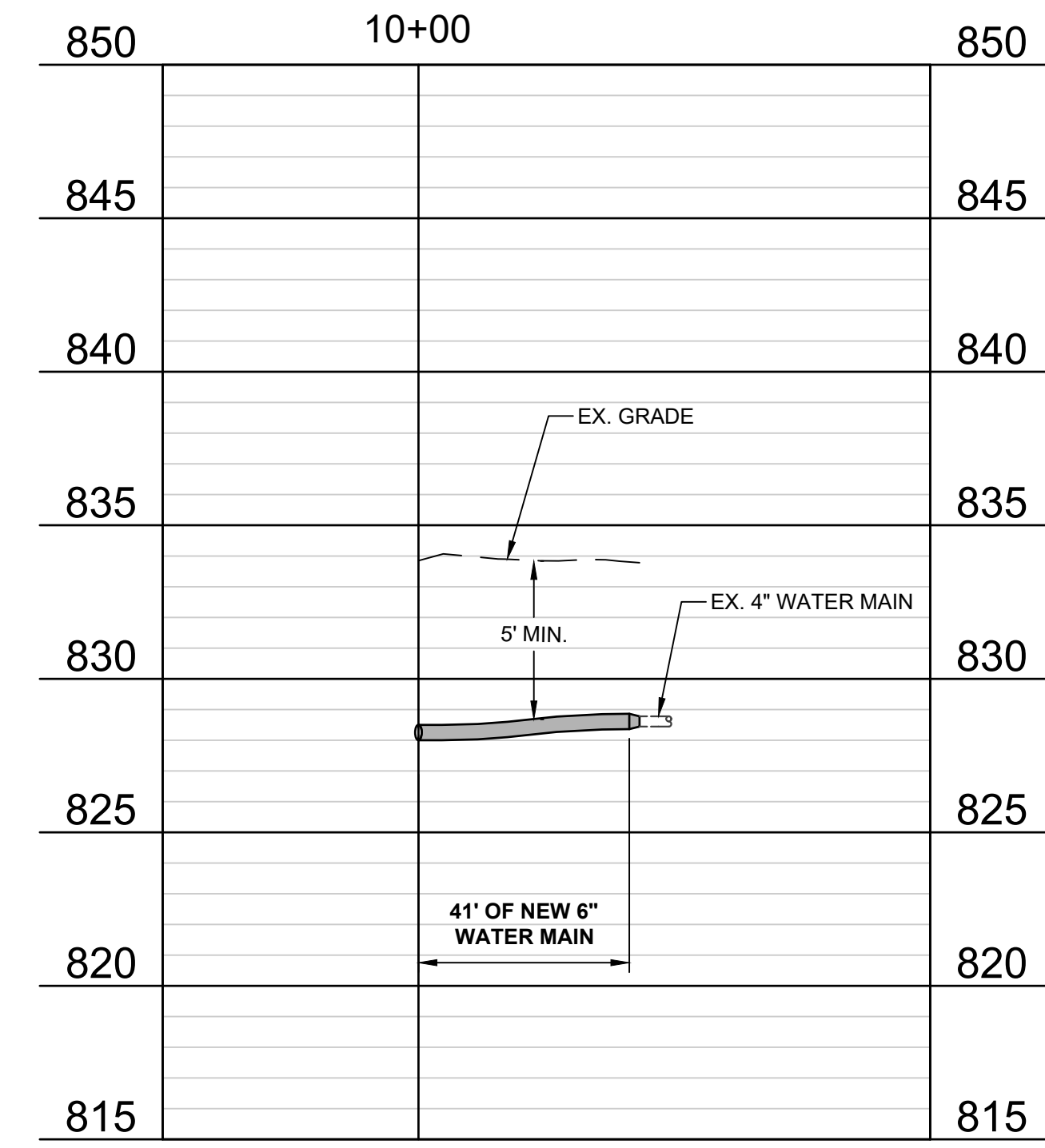
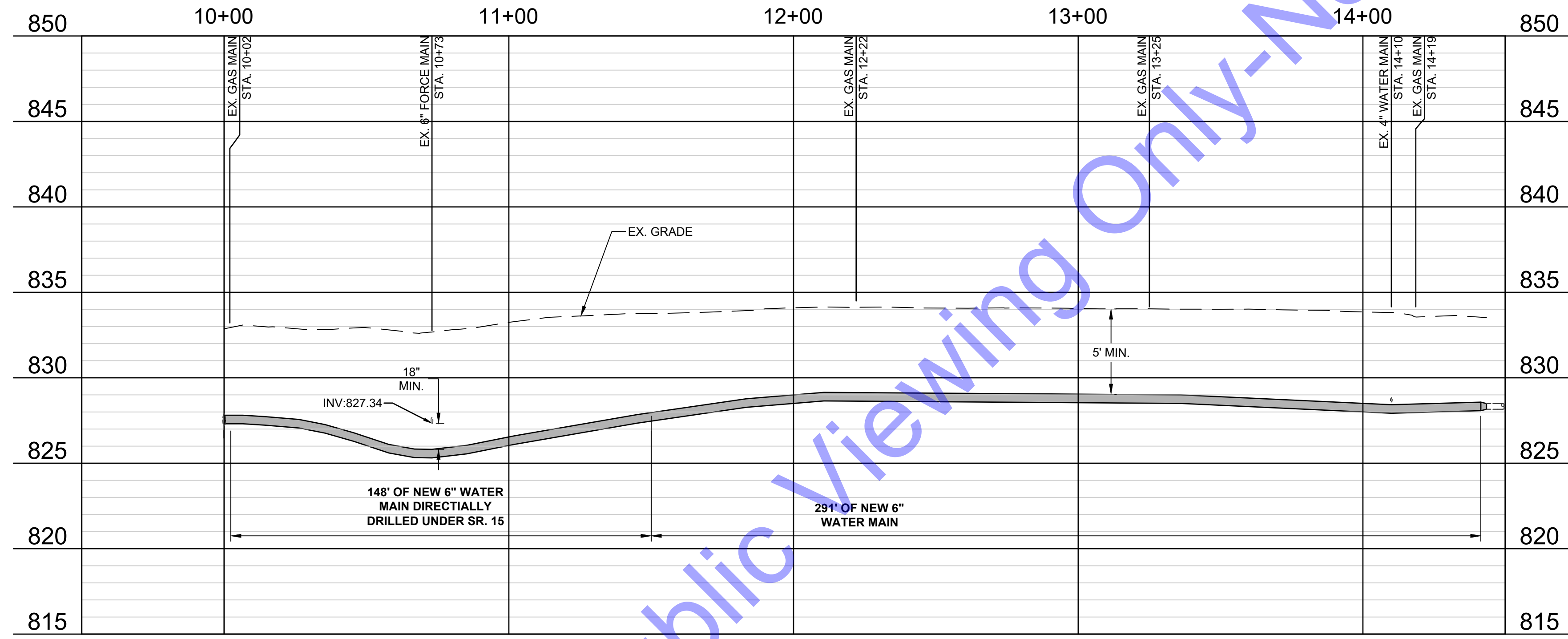
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**PLAN AND PROFILE
 DRAWING INDEX**

Drawing No:
C1-0
 Sheet: 24 OF 49



FOR CONTINUATION SEE DWG C1-2



PROFILE VIEW - LINE "WM-1-1"

PROFILE VIEW - LINE "WM-1-2"

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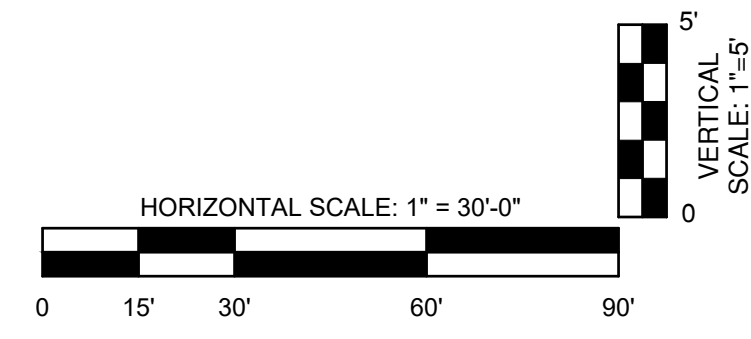
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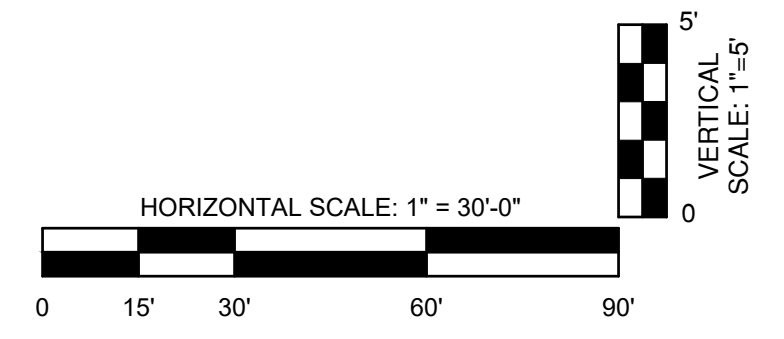
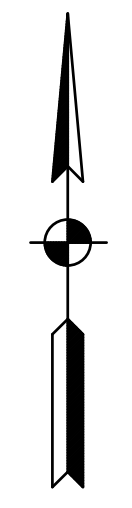
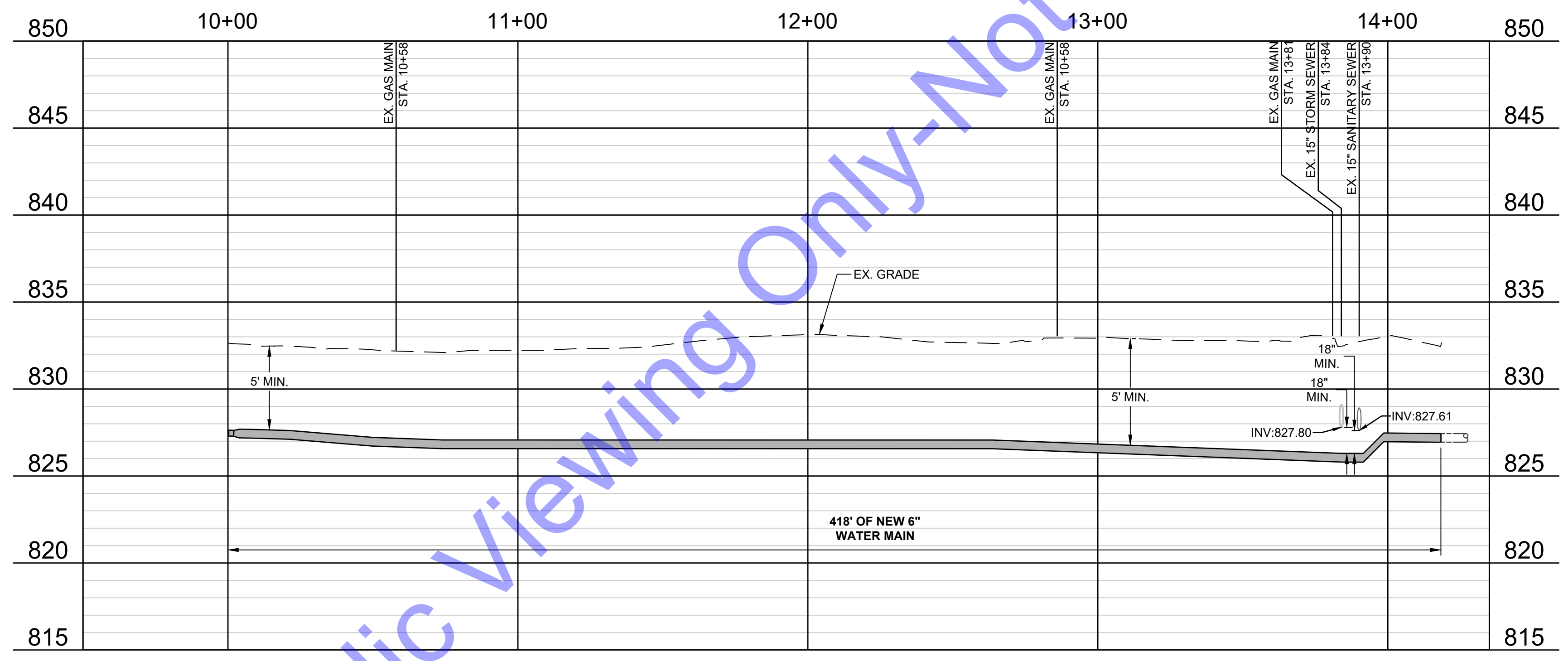
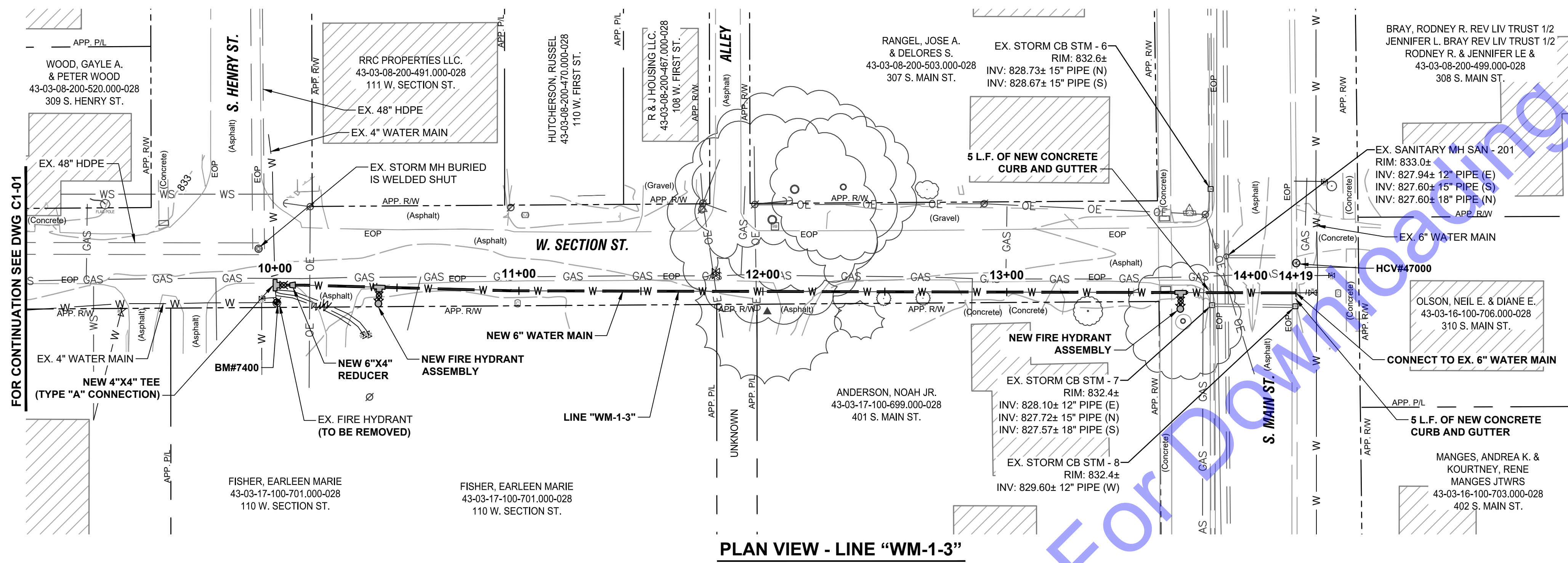
PLAN AND PROFILE VIEWS - LINE "WM-1-1"

Drawing No:
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Sheet: 25 OF 49



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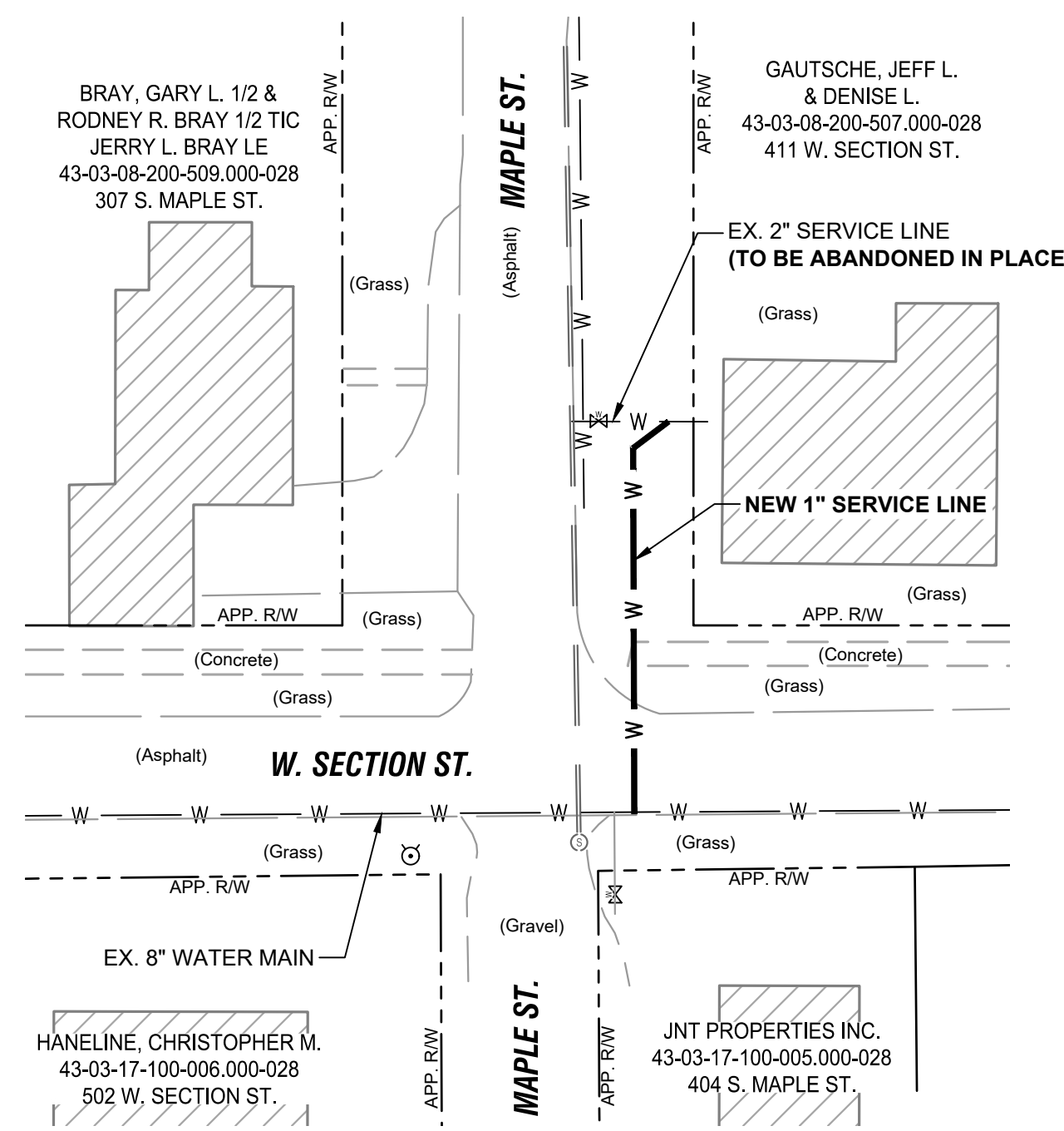
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PLAN AND PROFILE VIEWS - LINE "WM-1-2"

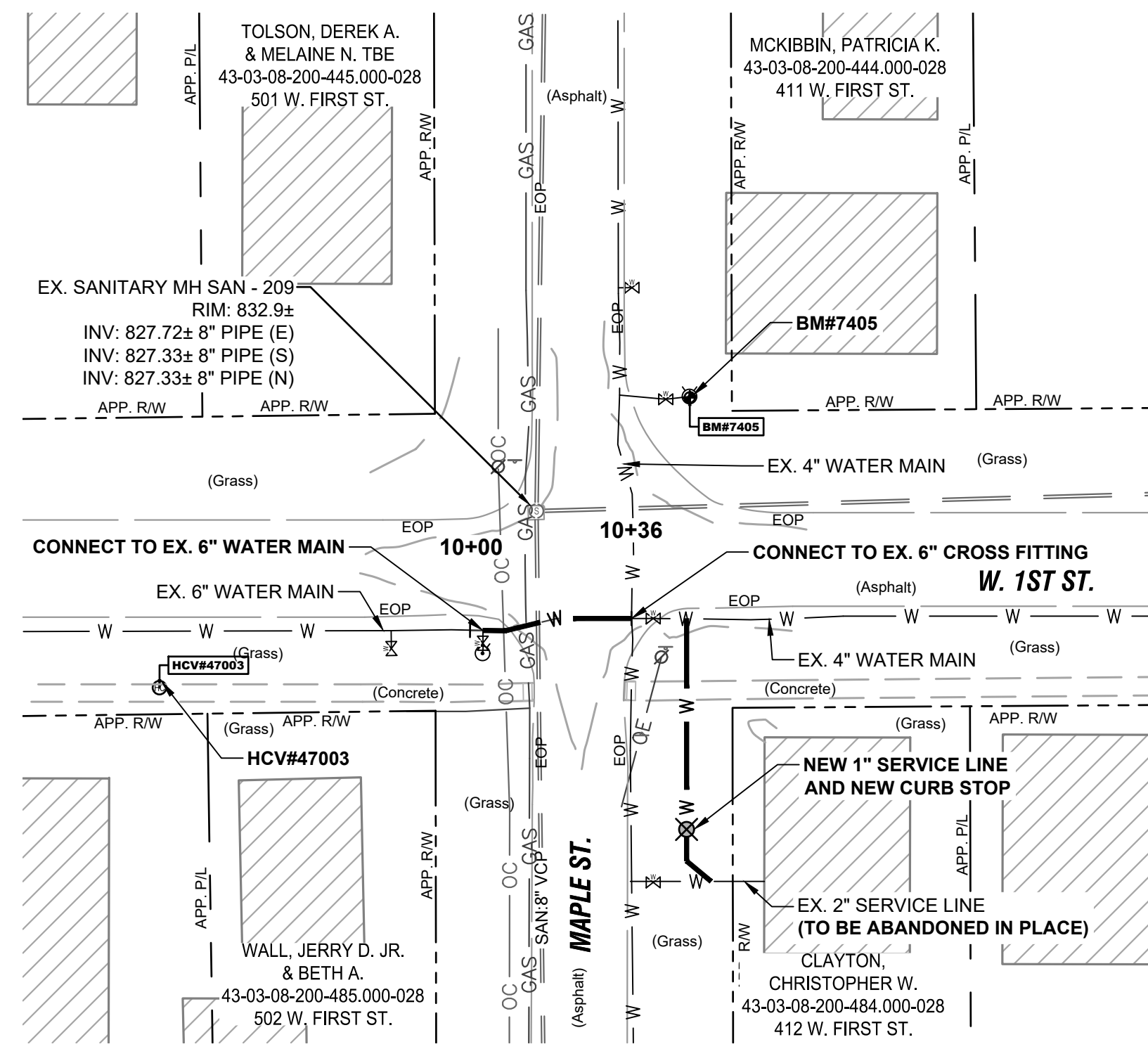
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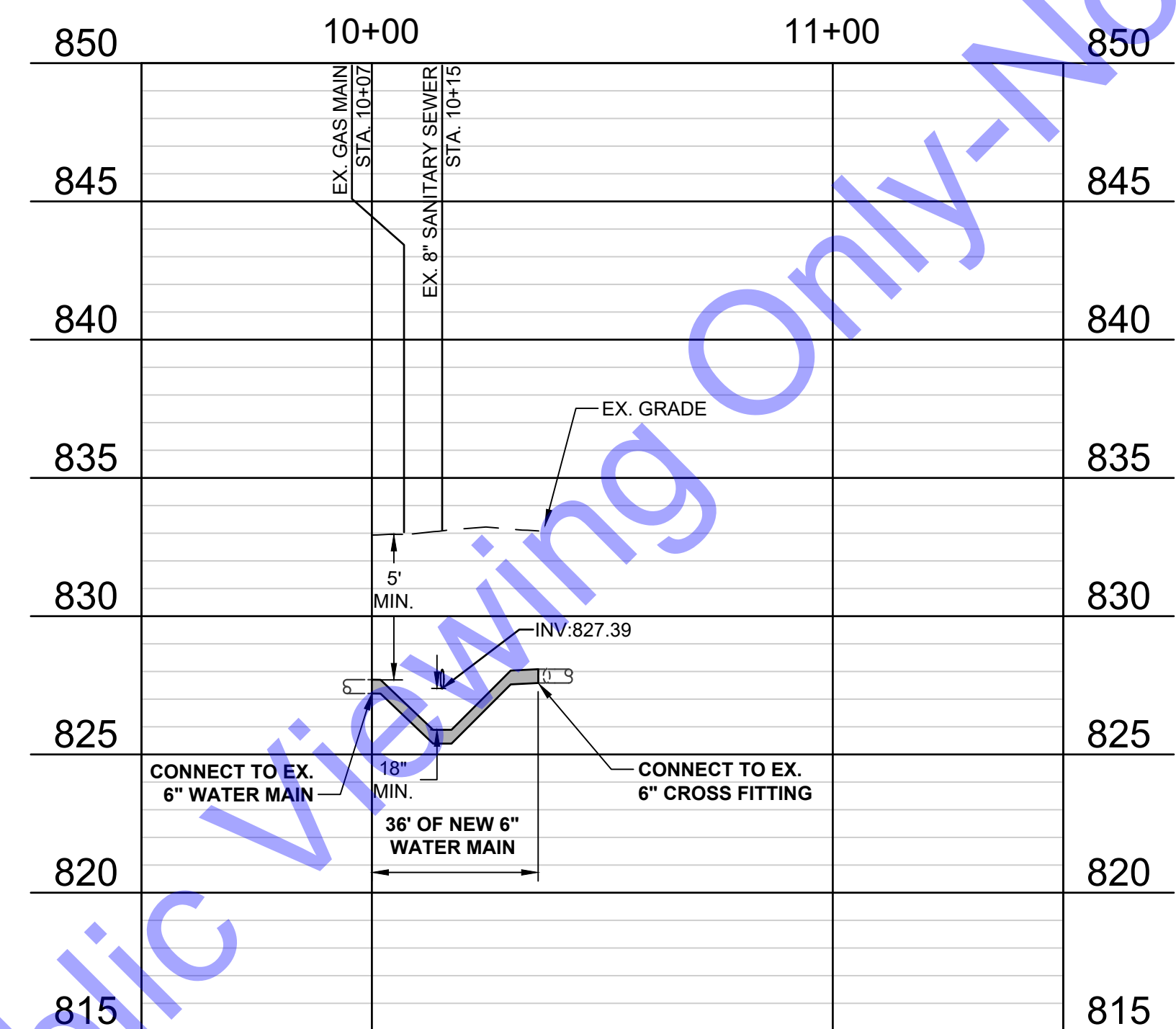


PLAN VIEW

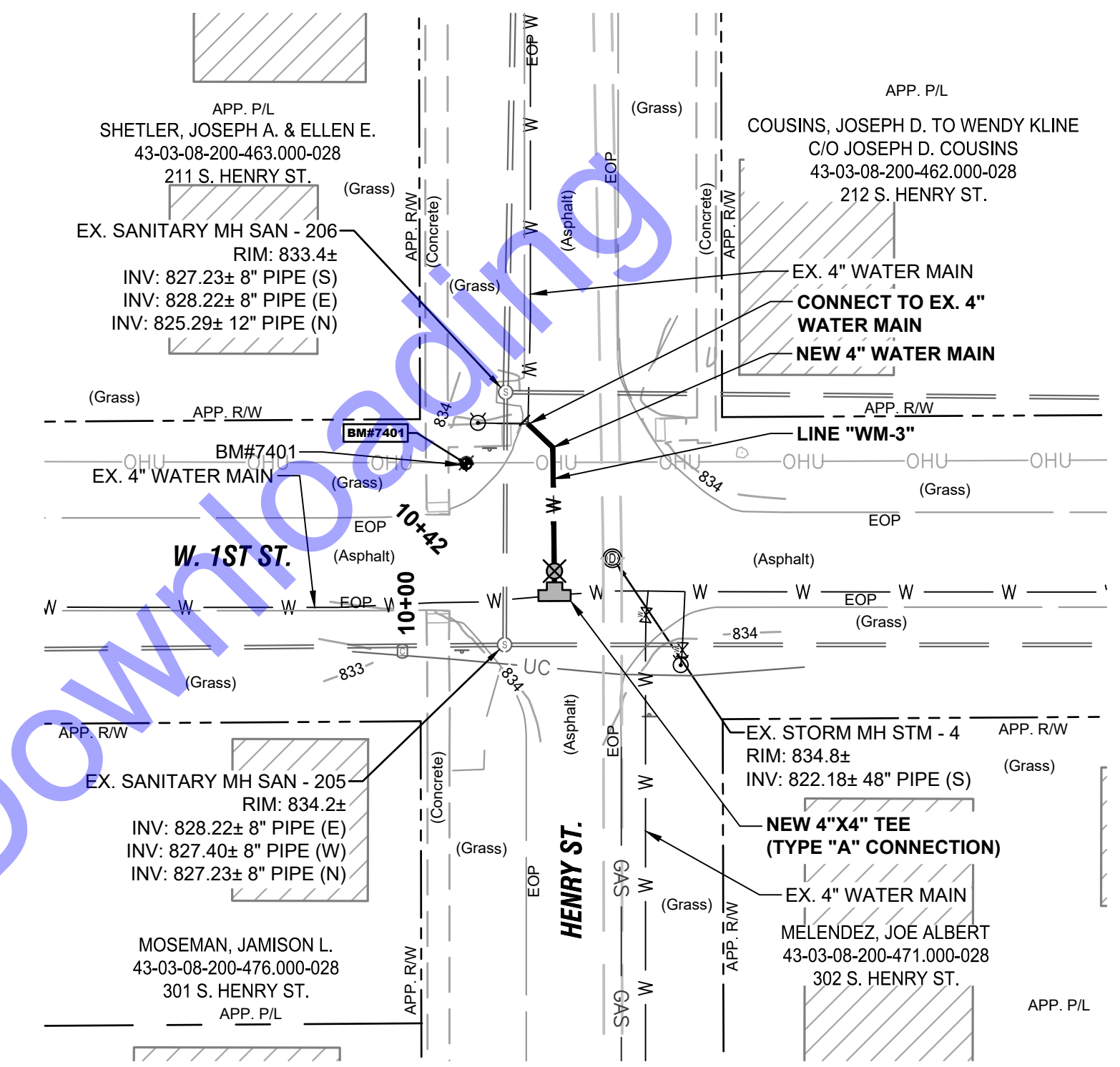
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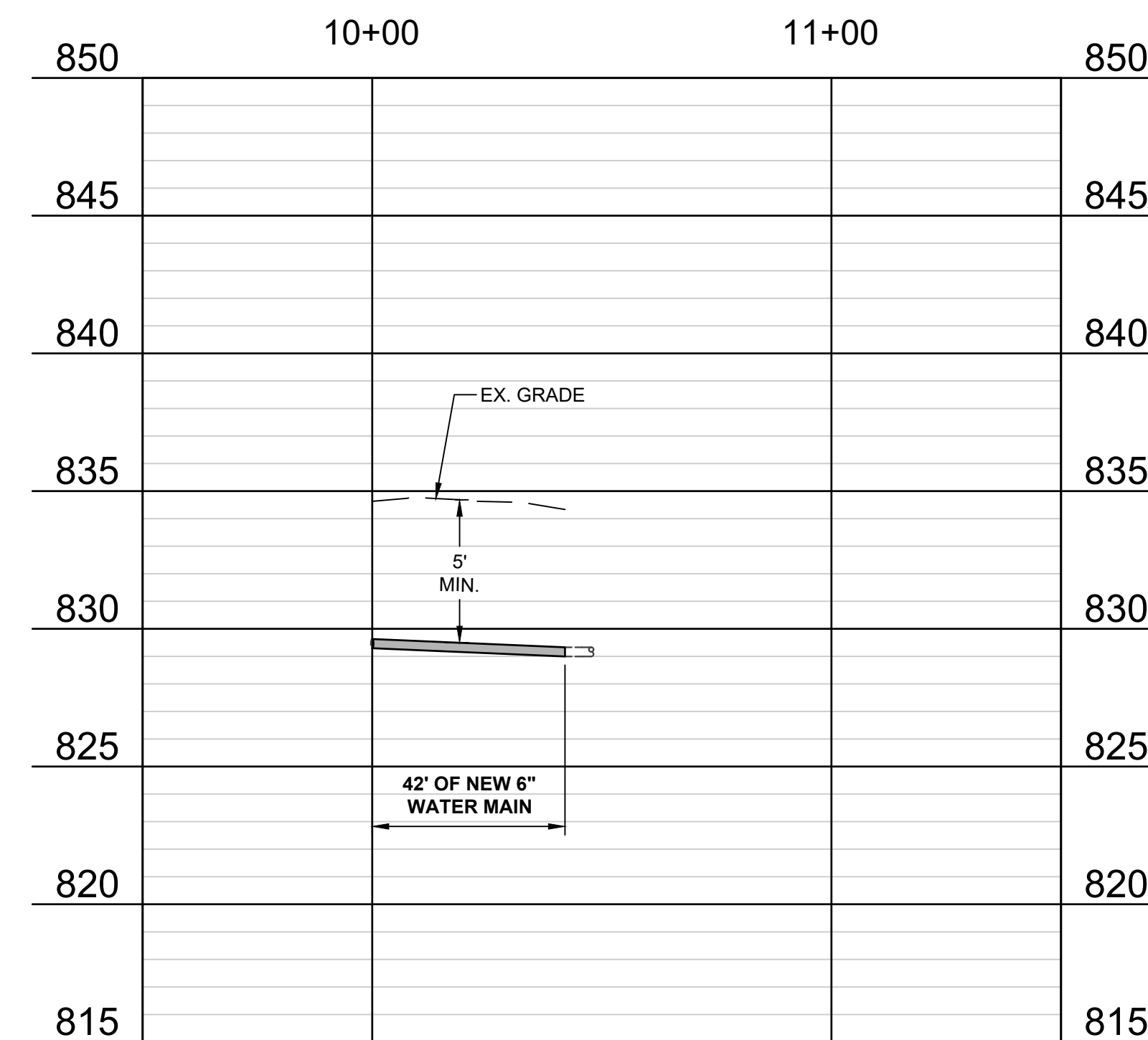
PLAN VIEW - LINE "WM-2"



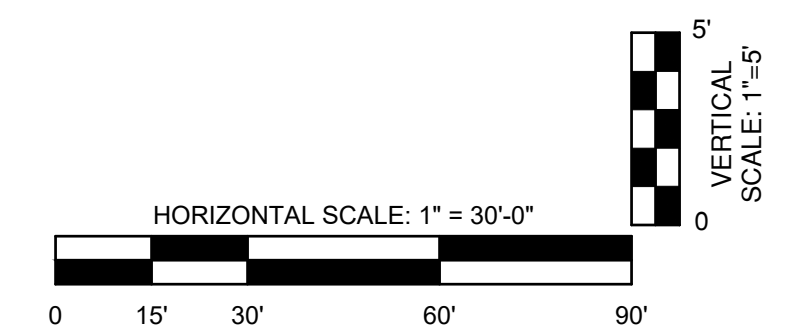
PROFILE VIEW - LINE "WM-2"



PLAN VIEW - LINE "WM-3"



PROFILE VIEW - LINE "WM-3"



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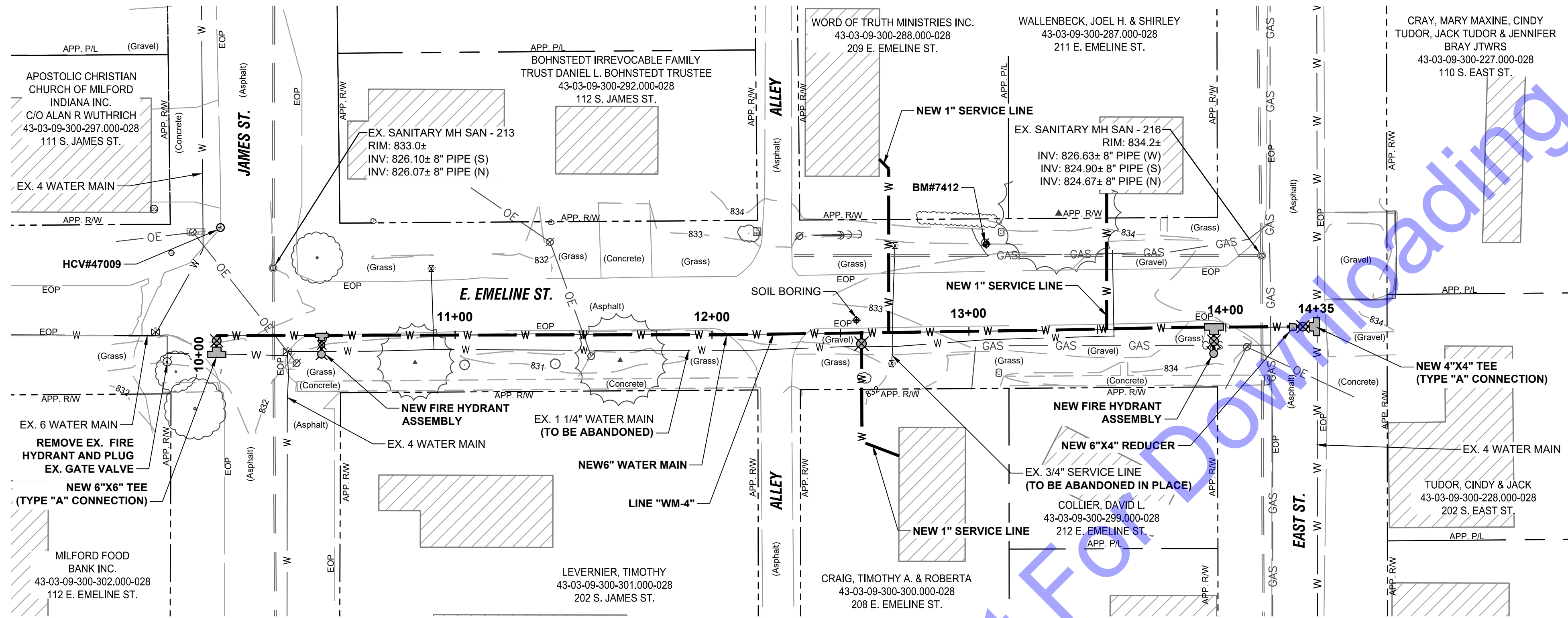
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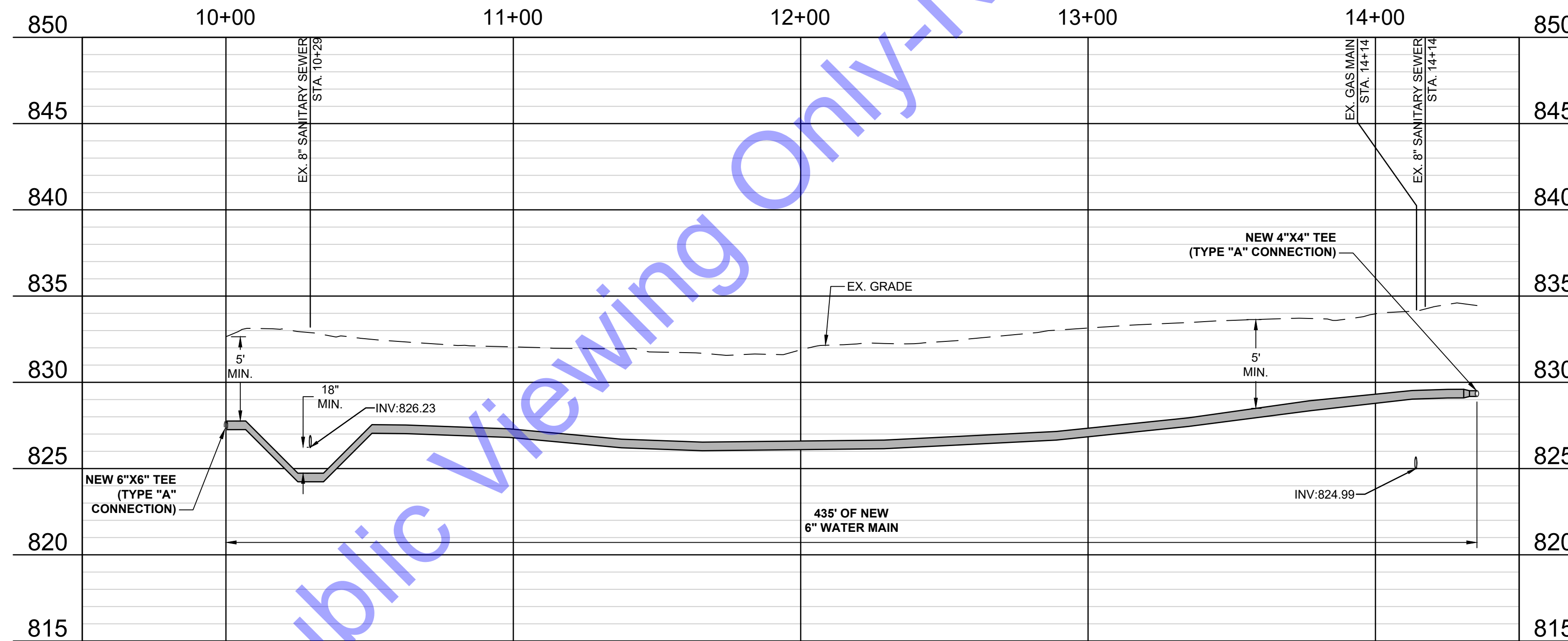
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PLAN AND PROFILE VIEWS - LINE "WM-2" AND LINE "WM-3"
 Drawing No: **C1-03**
 Sheet: 27 OF 49



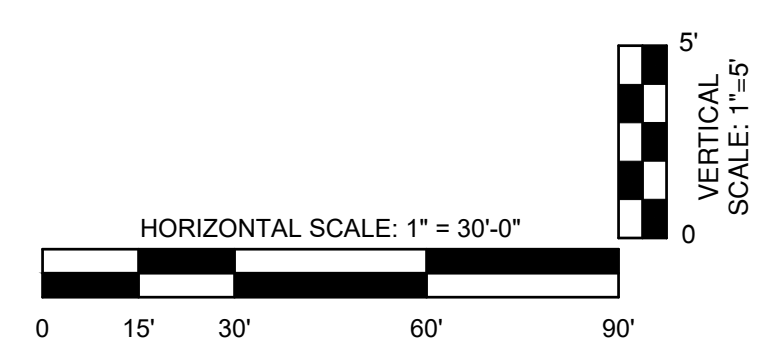
PLAN VIEW - LINE "WM-4"



PROFILE VIEW - LINE "WM-4"

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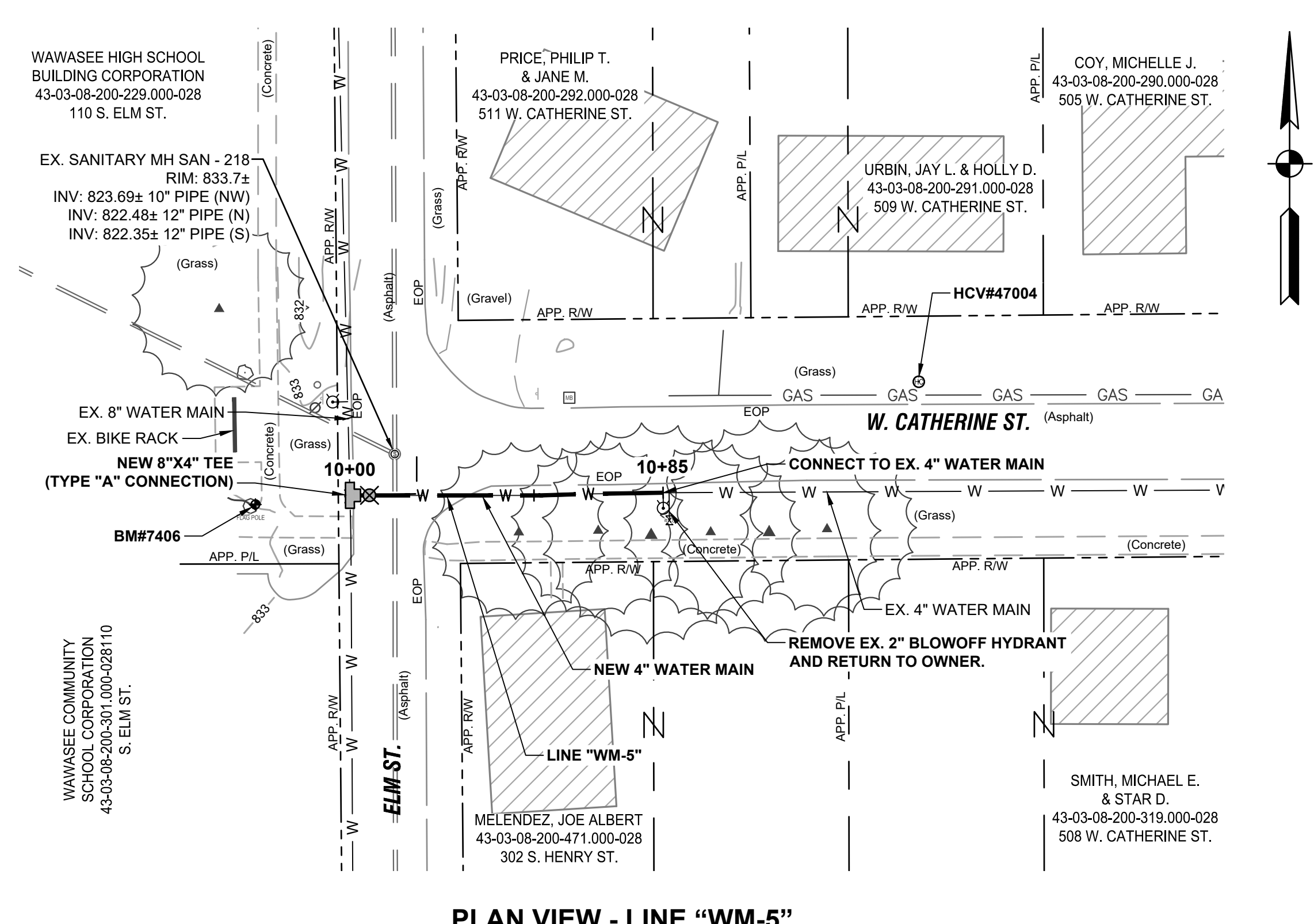
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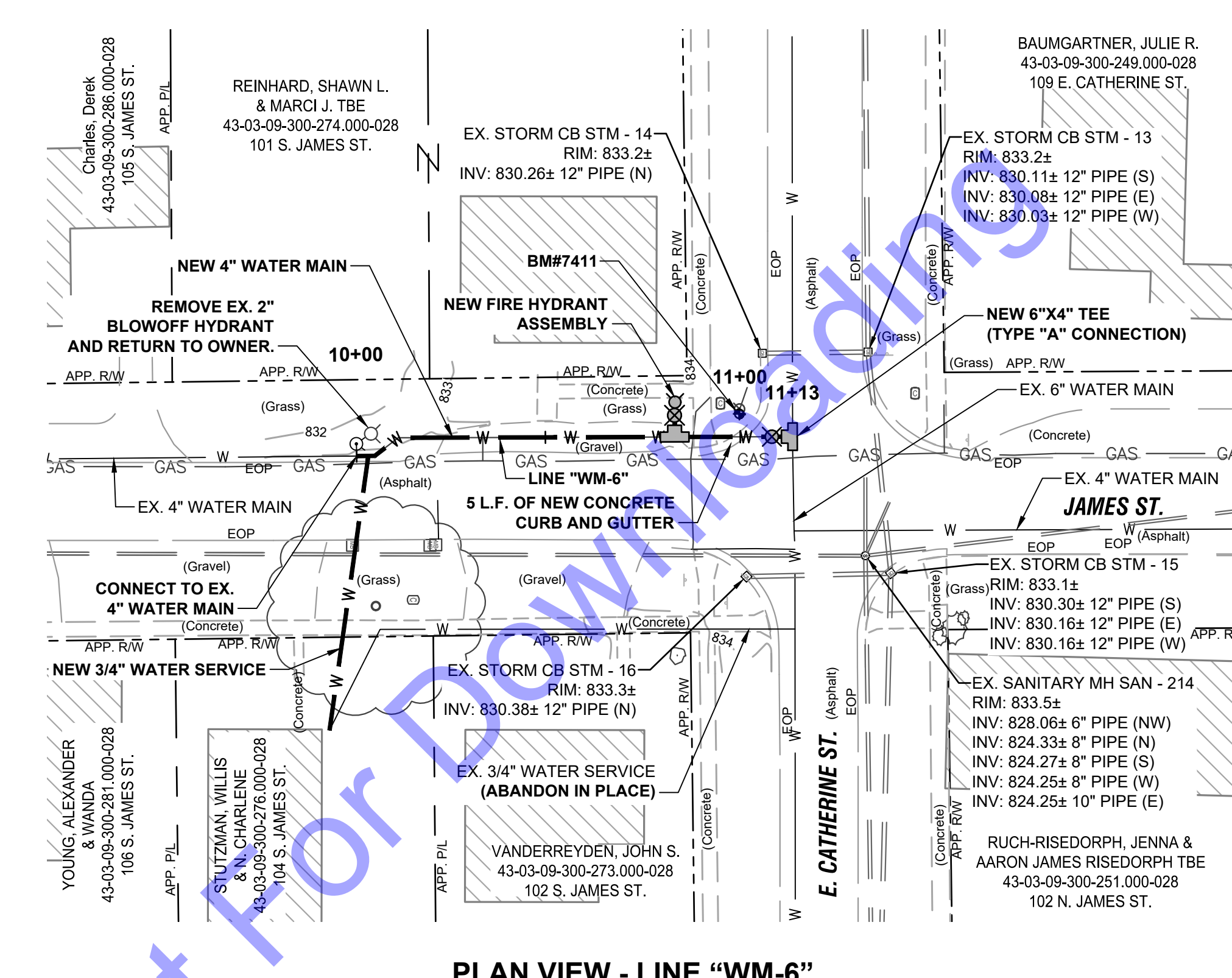
PLAN AND PROFILE VIEWS - LINE "WM-4"

Drawing No: **C1-04**

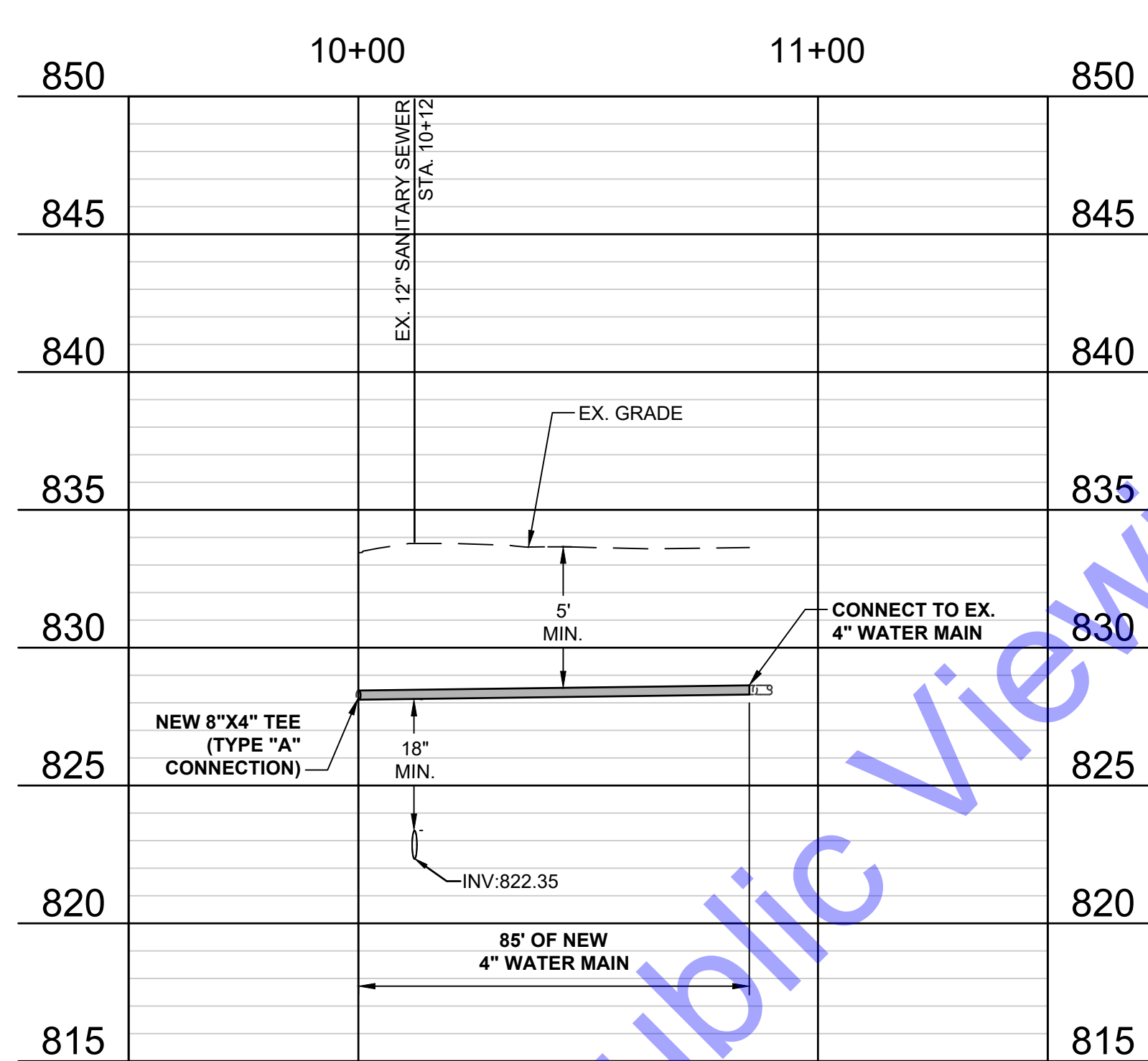
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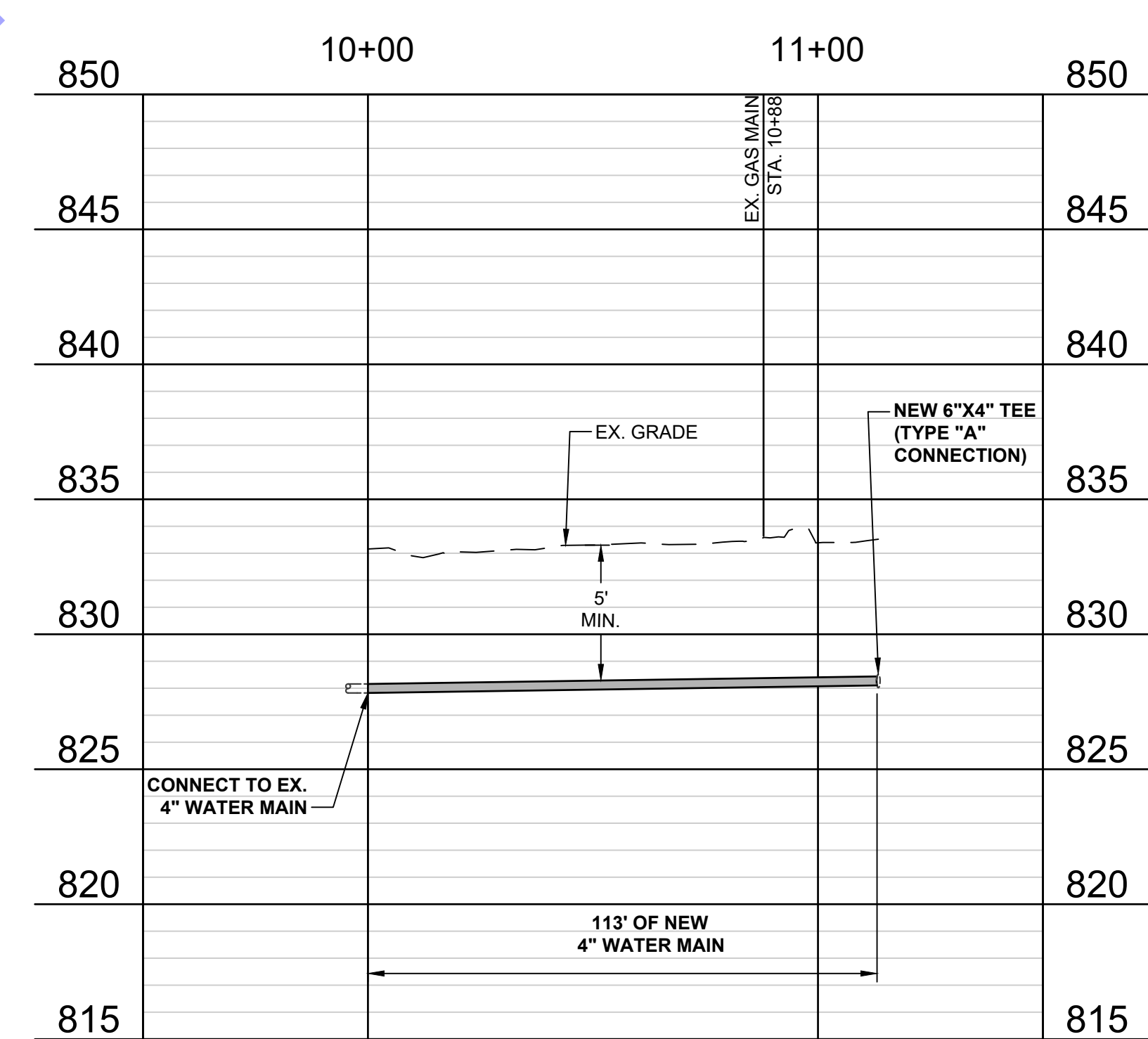
PLAN VIEW - LINE "WM-5"



PLAN VIEW - LINE "WM-6"



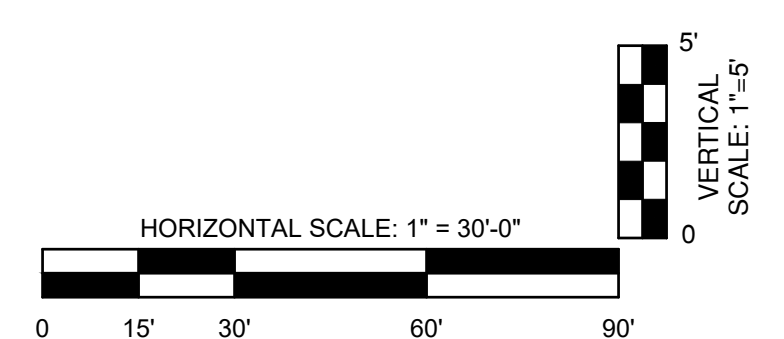
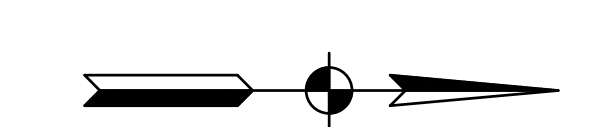
PROFILE VIEW - LINE "WM-5"



PROFILE VIEW - LINE "WM-6"

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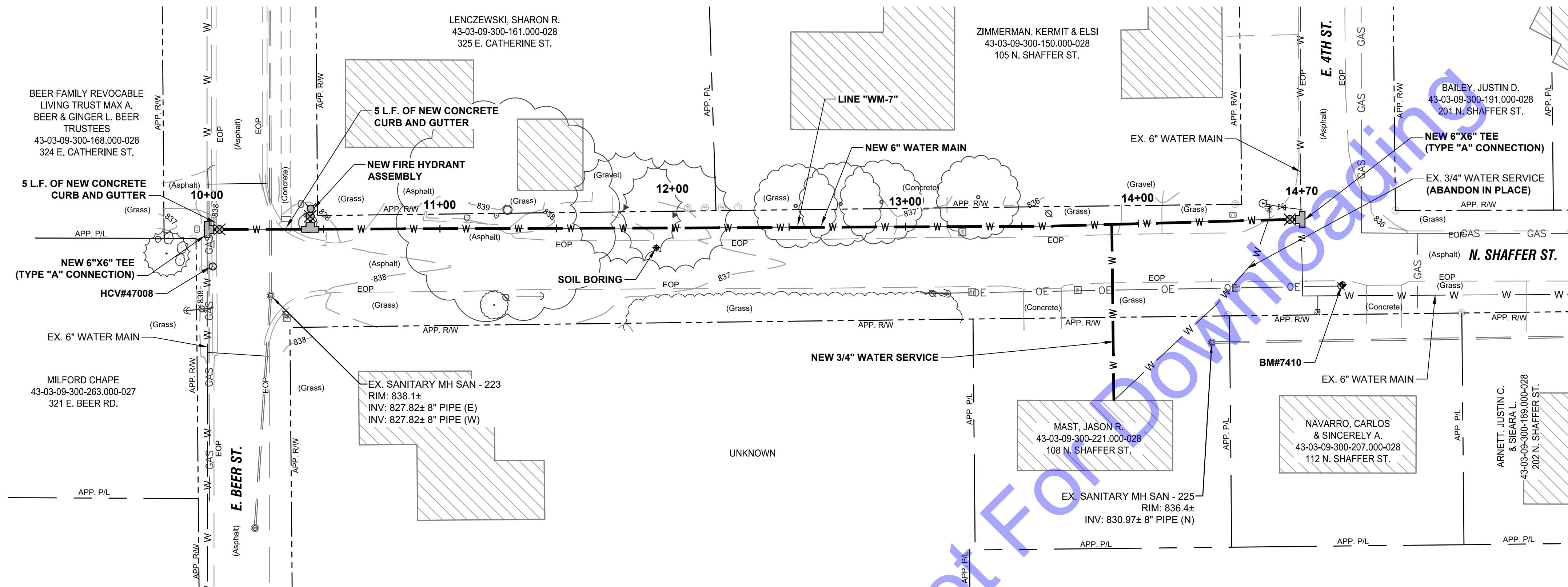
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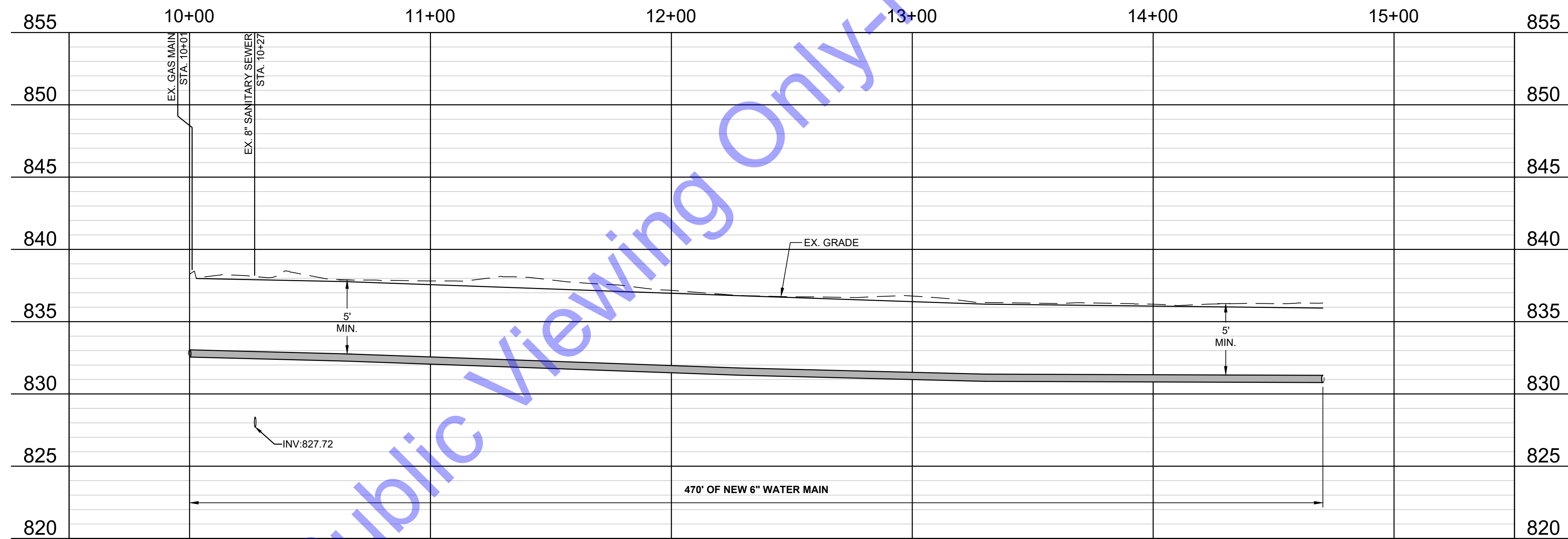
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PLAN AND PROFILE VIEWS - LINE "WM-5" AND LINE "WM-6"

Drawing No: **C1-05**
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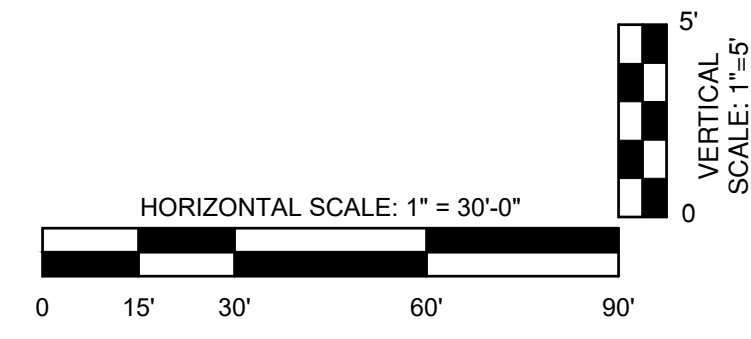
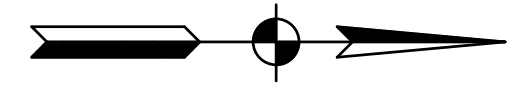
PLAN VIEW - LINE "WM-7"



PROFILE VIEW - LINE "WM-7"

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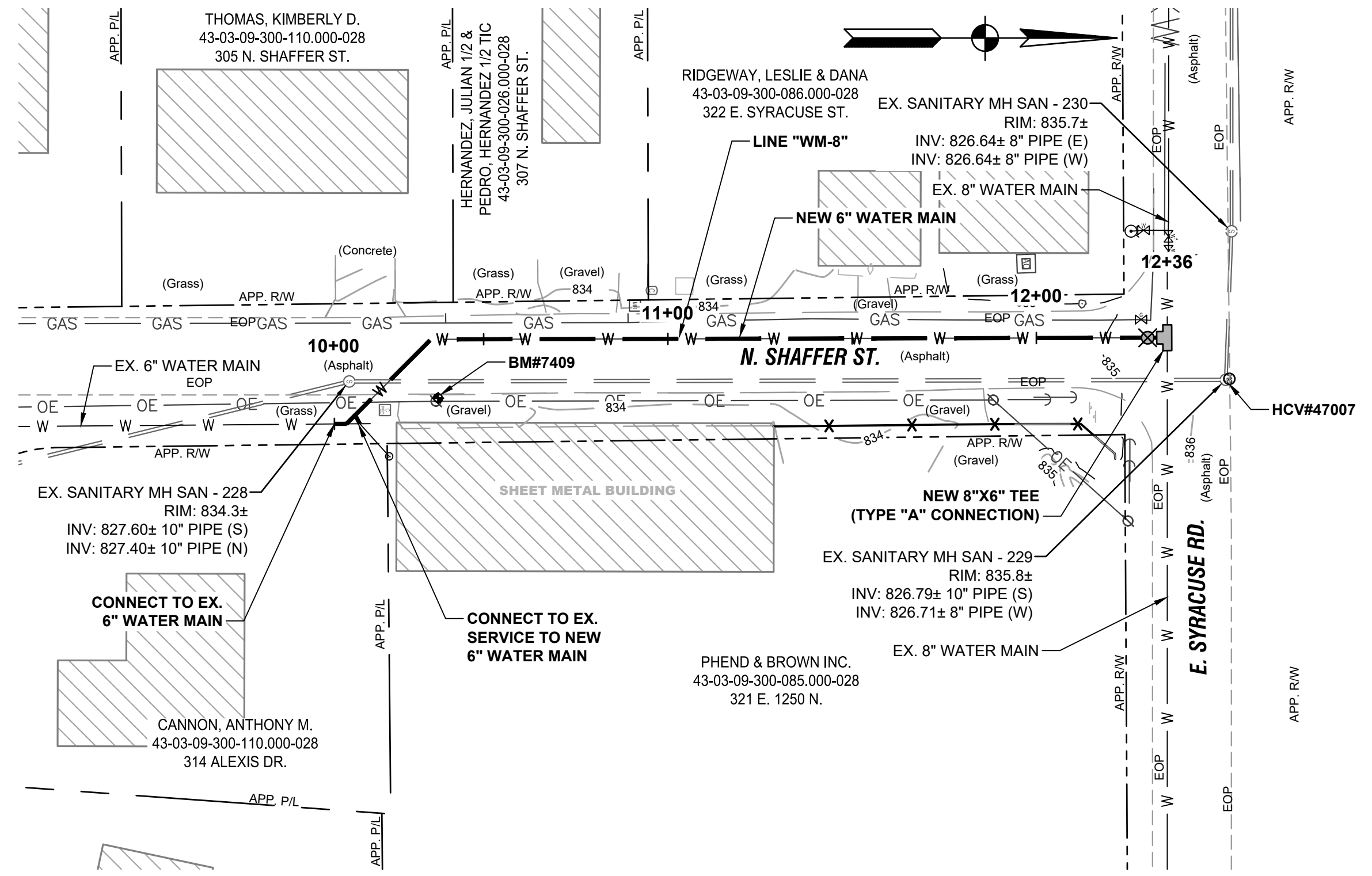
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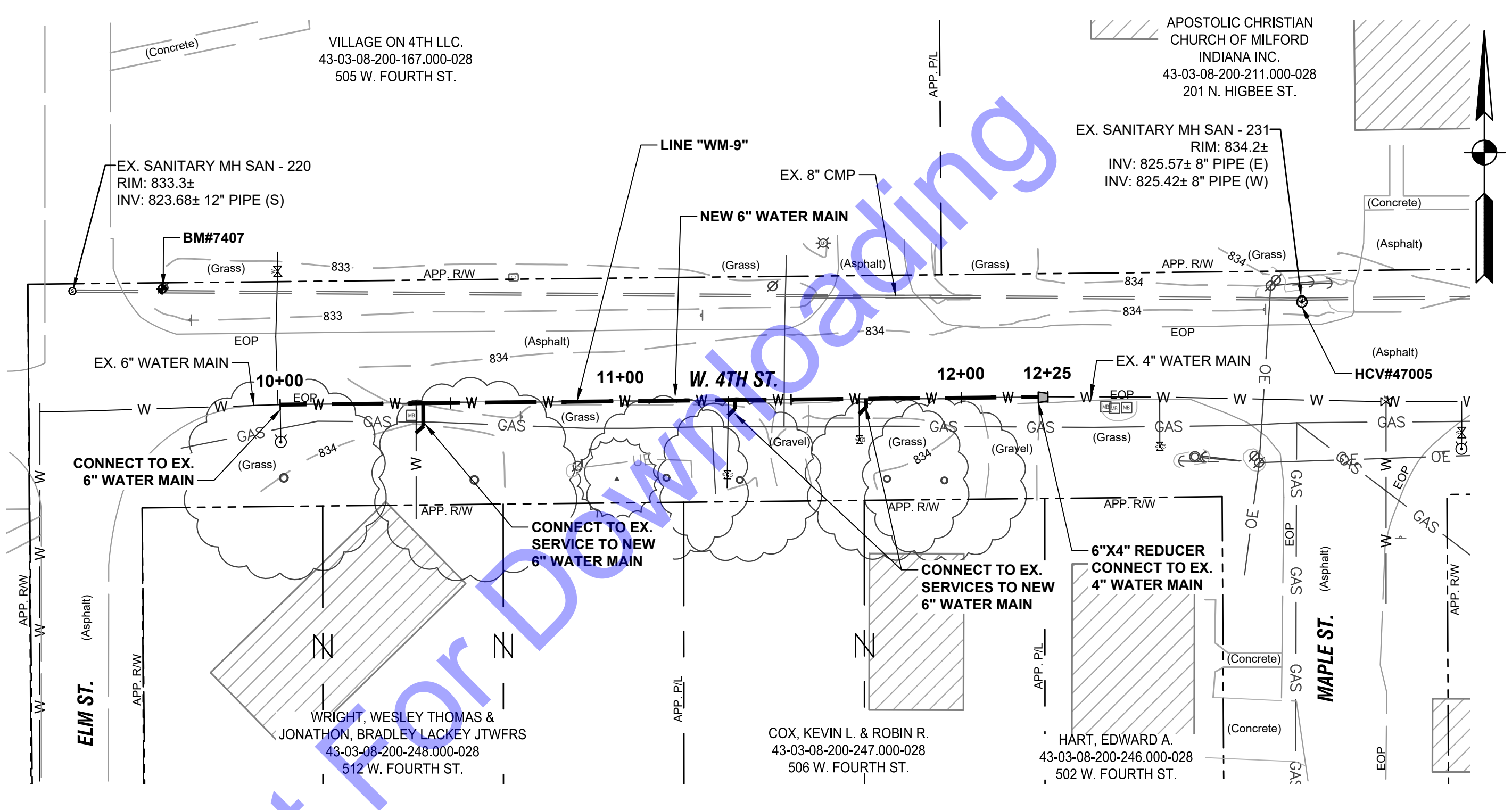
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Sheet: 30 OF 49

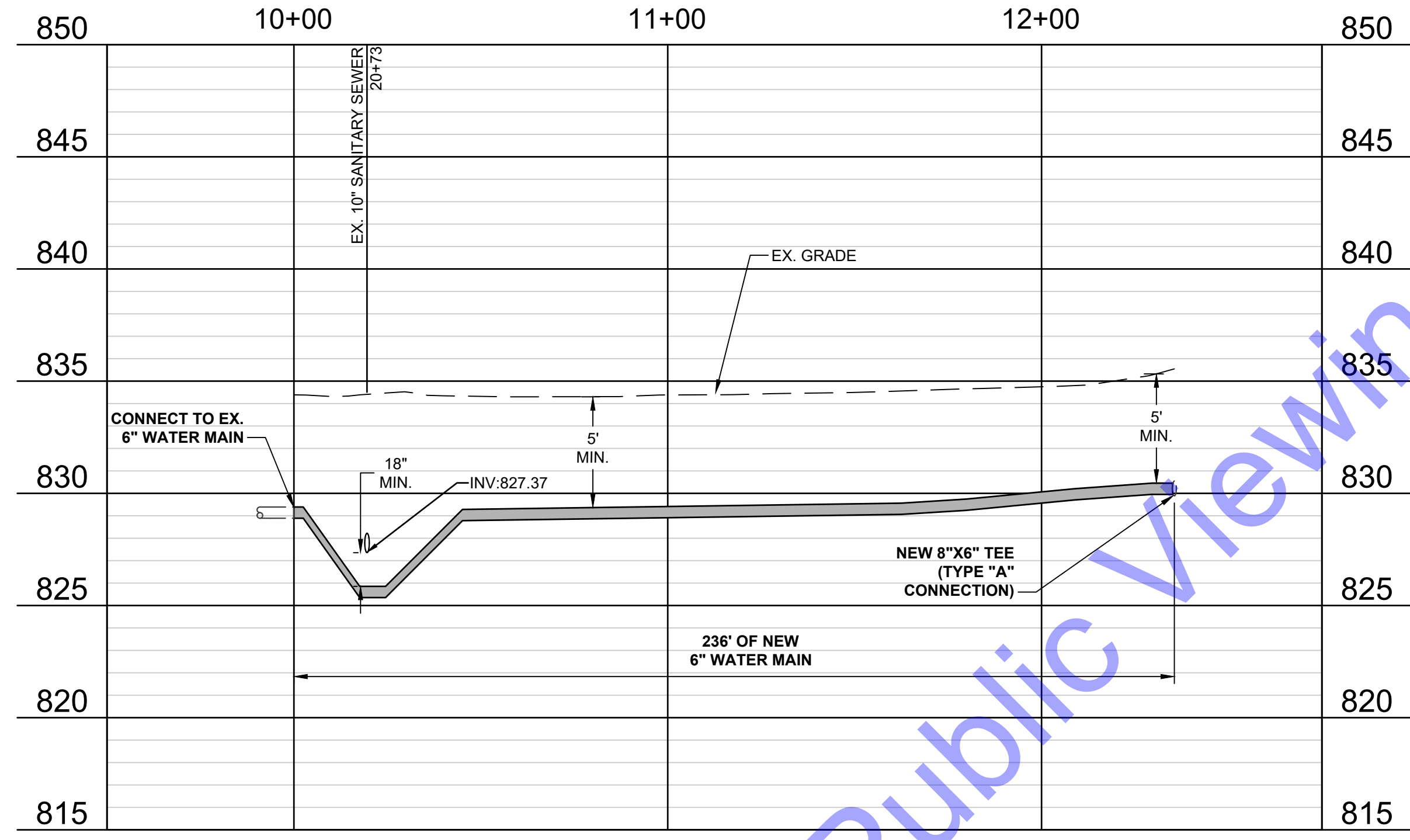
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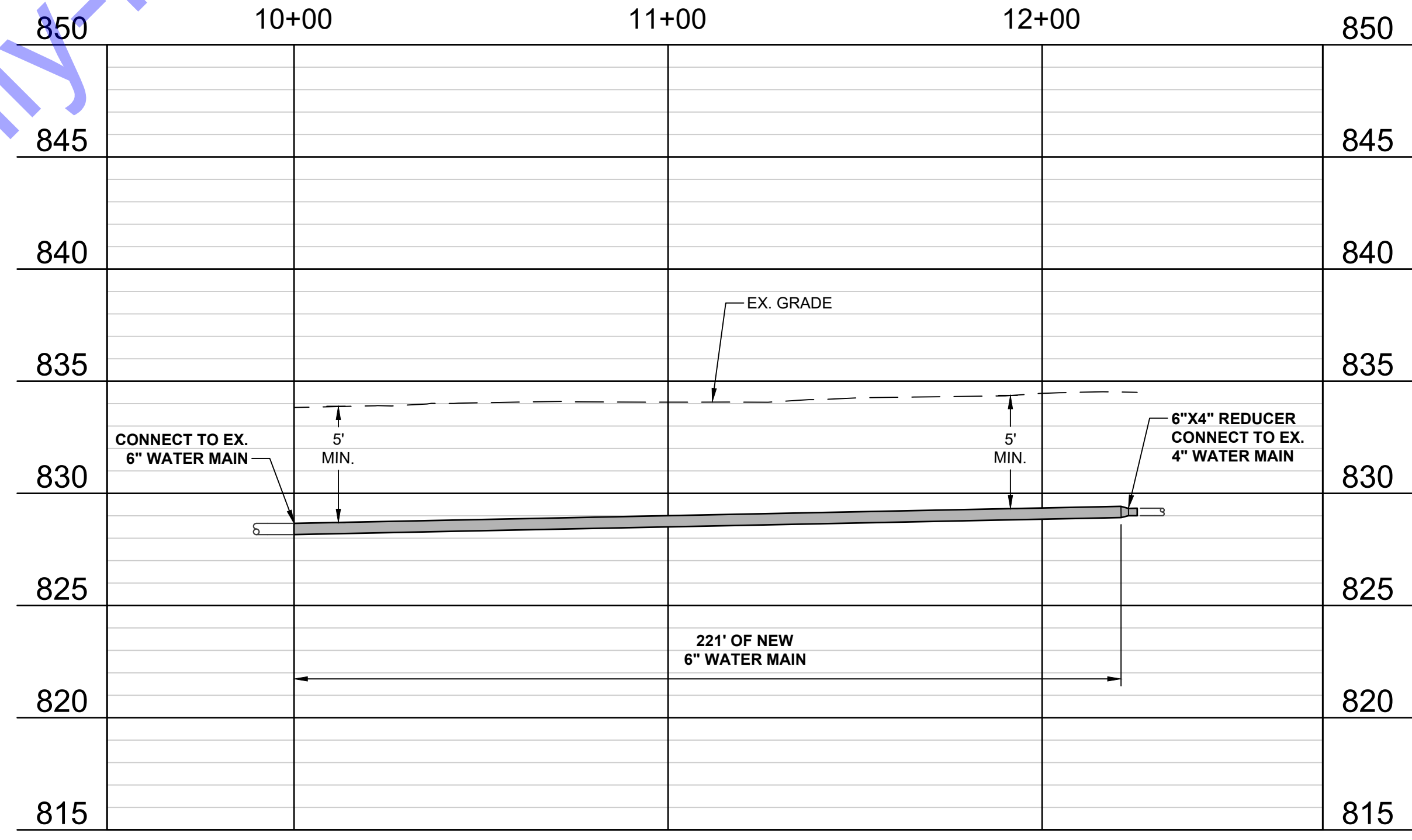
PLAN VIEW - LINE "WM-8"



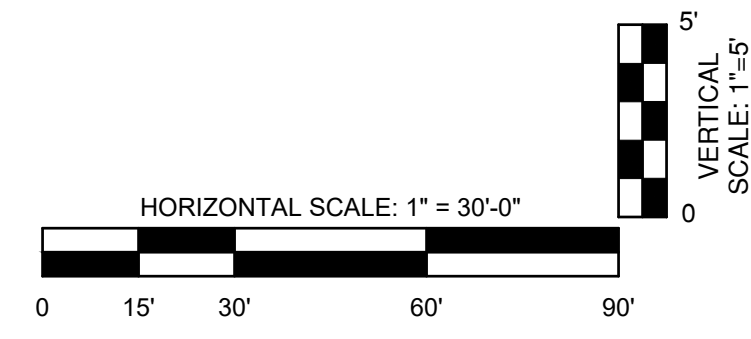
PLAN VIEW - LINE "WM-9"



PROFILE VIEW - LINE "WM-8"



PROFILE VIEW - LINE "WM-9"



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RYAN M. LARAU
 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA
 Signature: [Signature] Date: 12-9-2024

TOWN OF MILFORD, KOSCIUSKO COUNTY, INDIANA
 WATER UTILITY IMPROVEMENTS DIVISION "B" - WATER MAIN AND SERVICE LINE IMPROVEMENTS

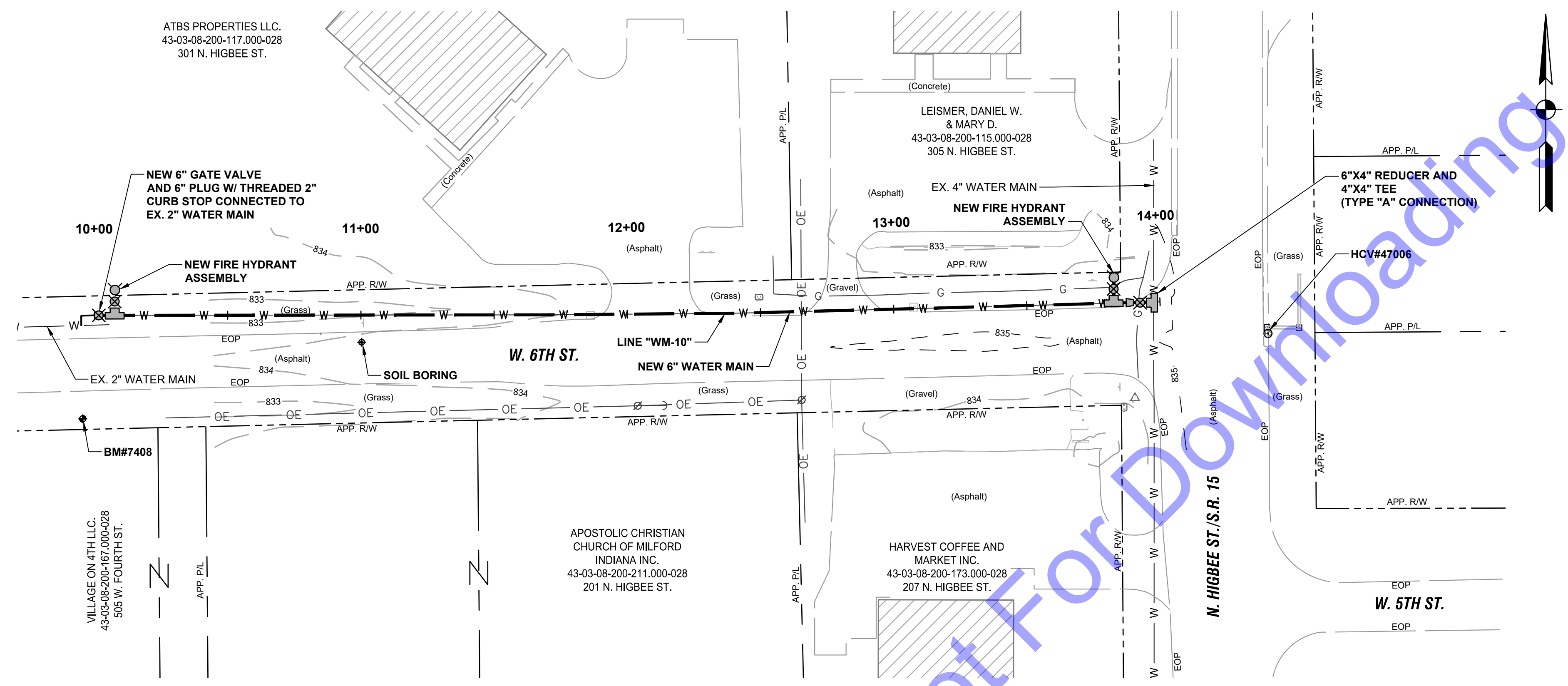
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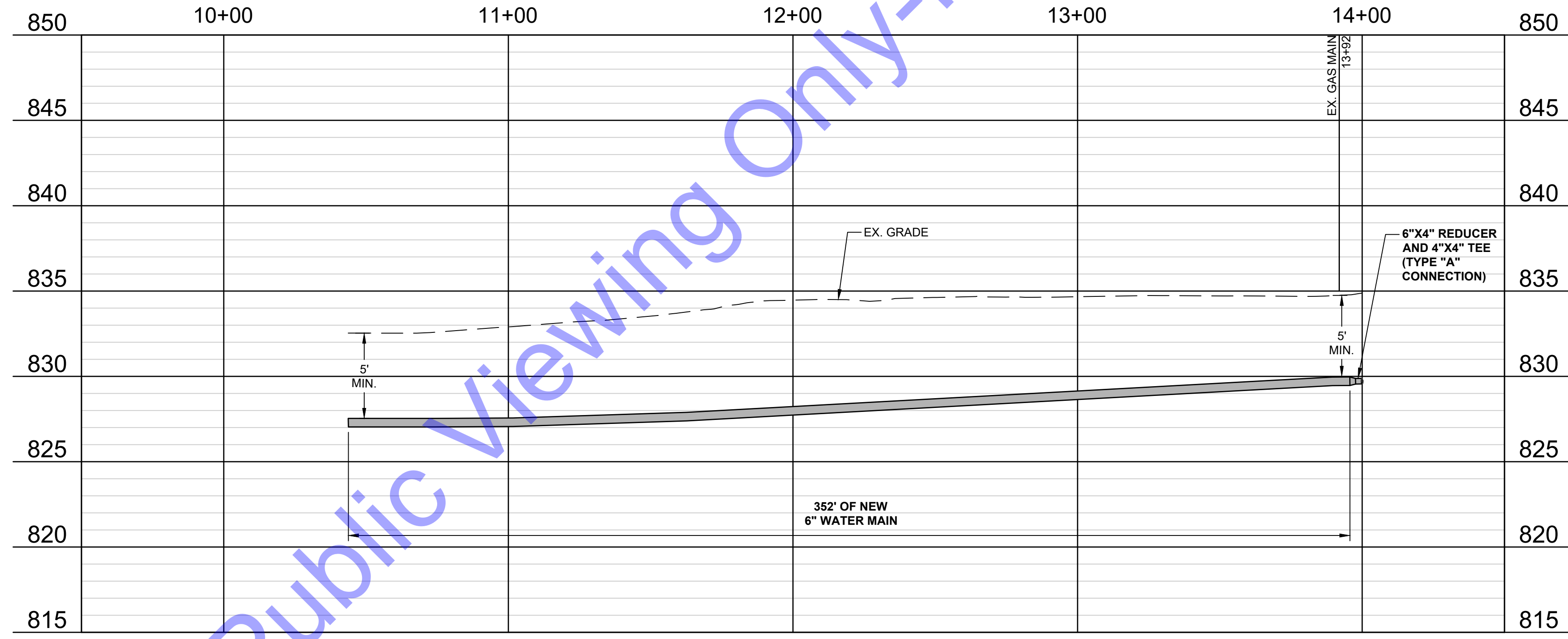
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Issue Date: 1-14-25	Project No: W24161	Scale: AS SHOWN

PLAN AND PROFILE VIEWS - LINE "WM-8" AND LINE "WM-9"

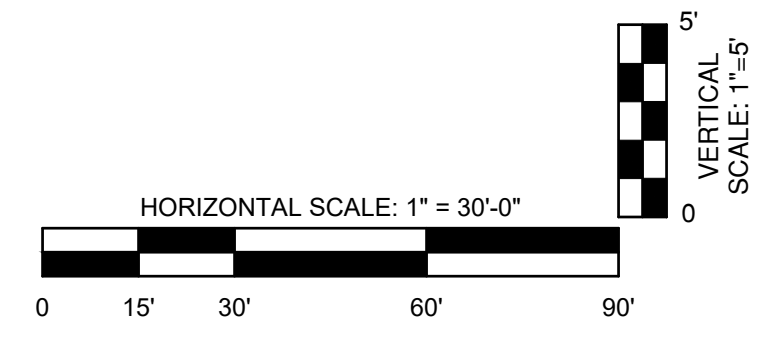
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PLAN VIEW - LINE "WM-10"



PROFILE VIEW - LINE "WM-10"



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RYAN M. LAREAU
 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA

Signature: *[Signature]* Date: 12-9-2024

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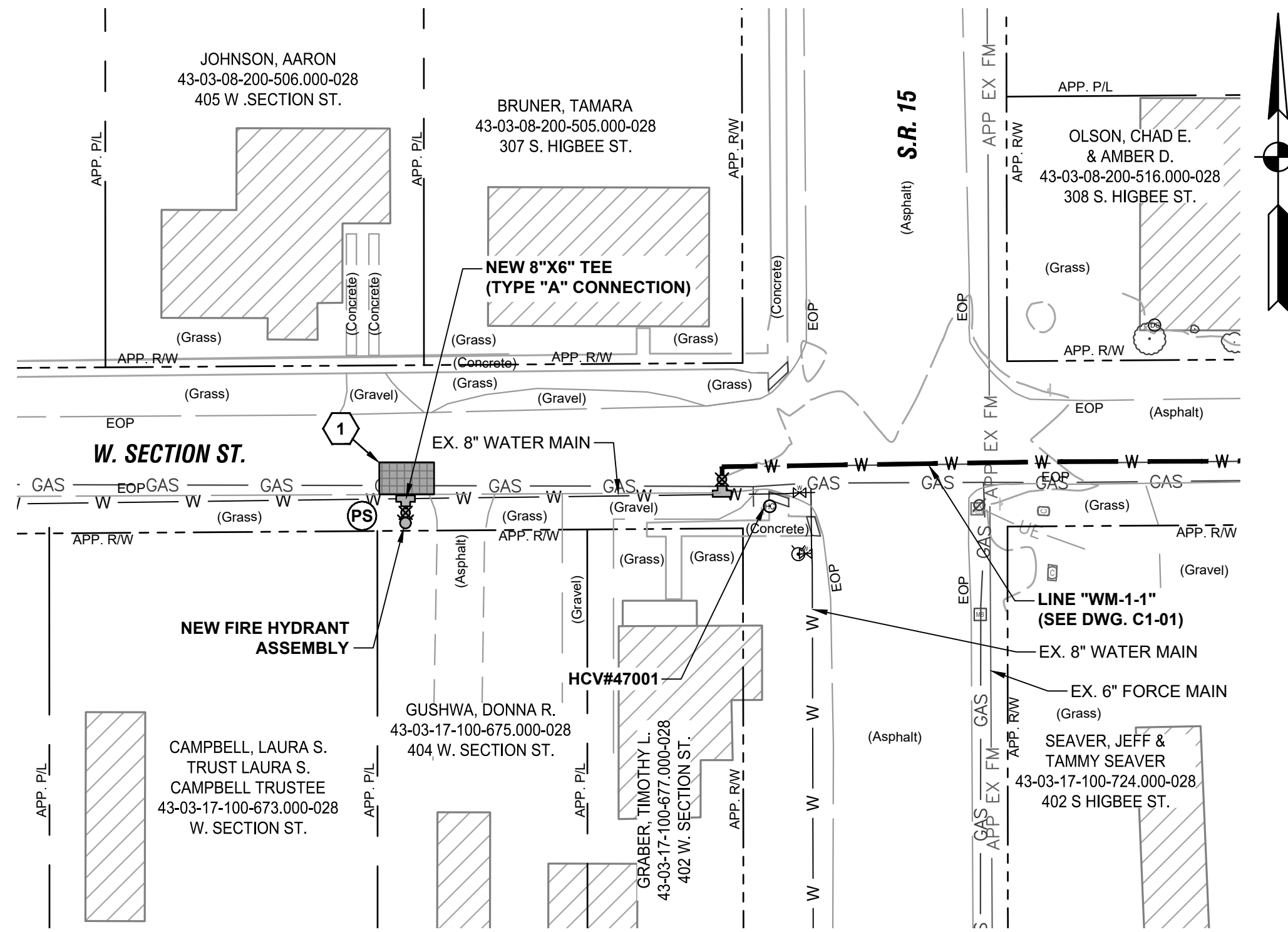
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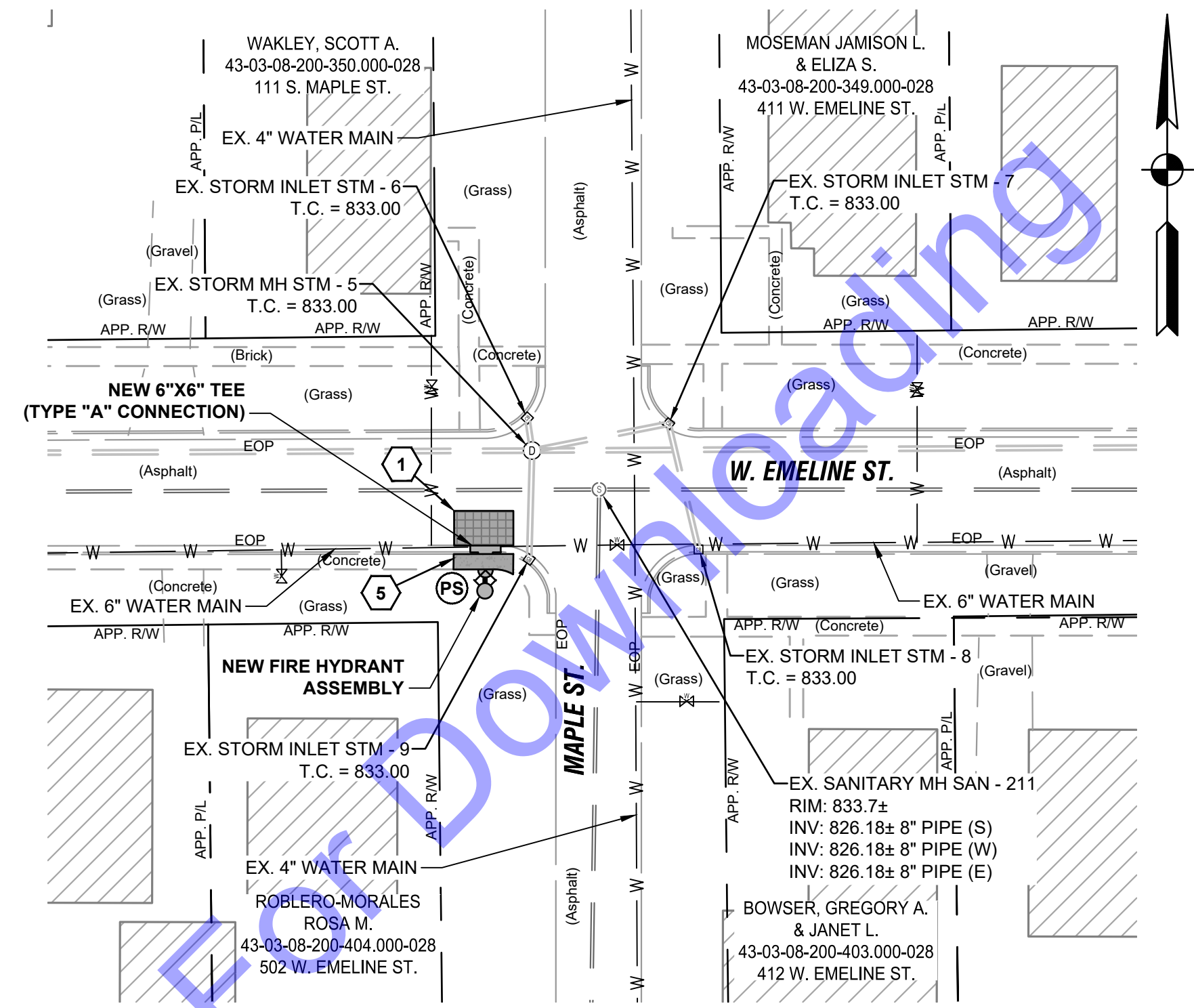
PLAN AND PROFILE VIEWS - LINE "WM-10"

Drawing No:
C1-08
 Sheet: 32 OF 49



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'

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DEMOLITION AND RESTORATION KEYNOTES:

- 1 REMOVE ASPHALT PAVEMENT, TRENCH RESTORATION, AGGREGATE BASE AND ASPHALT BASE REPLACEMENT - STANDARD DUTY (SEE DETAIL, DWG. MD2).
- 2 REMOVE AND REPLACE CONCRETE PAVEMENT DRIVEWAY (SEE DETAIL, DWG. MD2).
- 3 REMOVE AND REPLACE STONE DRIVE (SEE DETAIL, DWG. MD2).

- 4 MILL (2-INCH) EXISTING ASPHALT PAVEMENT AND RESURFACE ASPHALT PAVEMENT (2-INCH) (SEE DETAIL, DWG MD2).
- 5 REMOVE AND REPLACE CONCRETE SIDEWALK (SEE DETAIL, DWG. MD4).

EROSION CONTROL LEGEND:

- SF PERMANENT SEEDING
- CW SILT FENCE
- IP CONCRETE WASHOUT
- IP INLET PROTECTION

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 STATE OF INDIANA

Signature: *[Signature]* Date: 12-9-2024

**TOWN OF MILFORD
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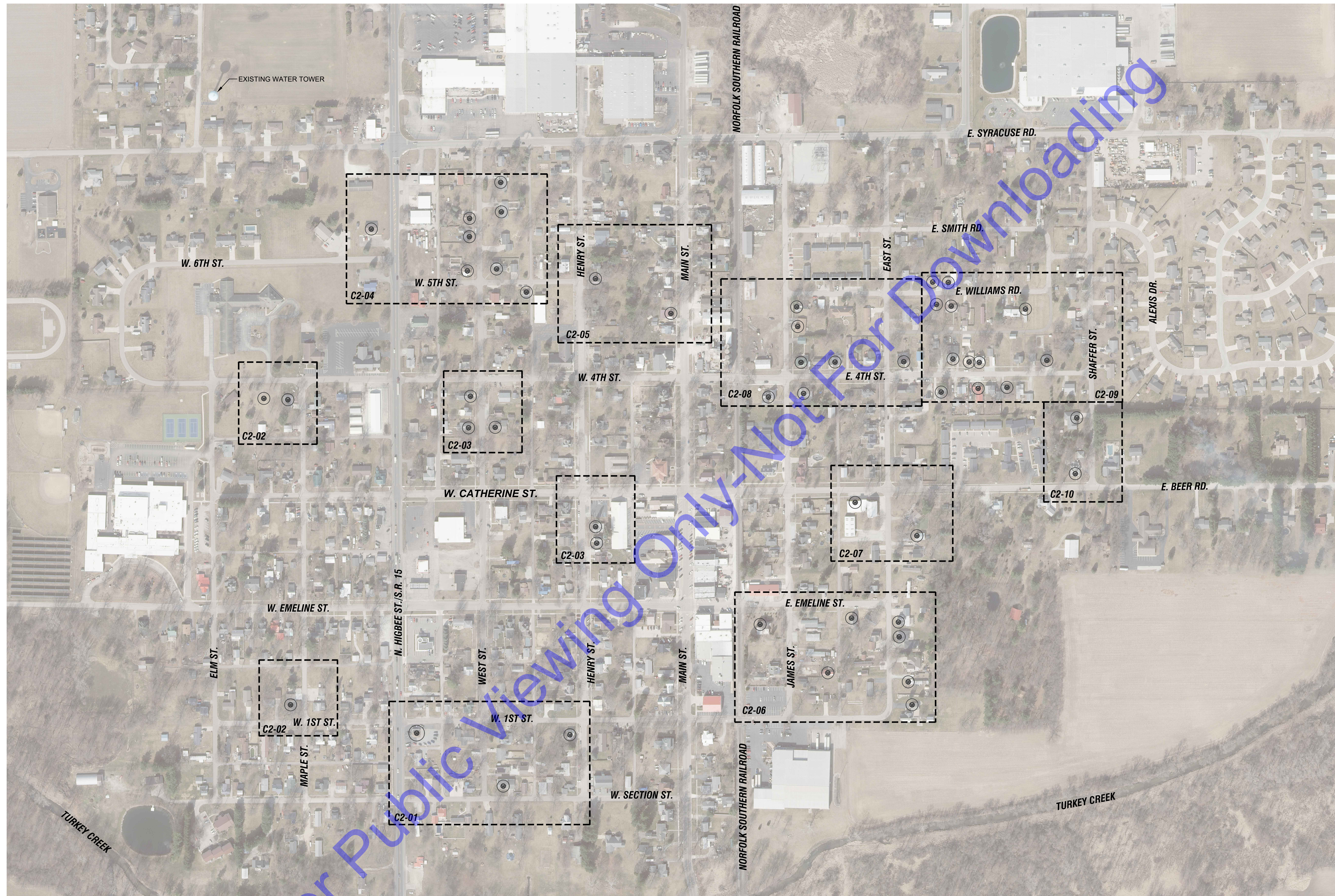
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Issue Date: 1-14-25	Project No: W24161	Scale: AS SHOWN

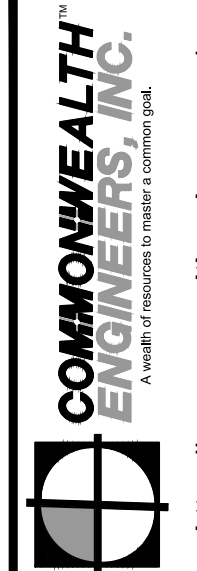
PLAN VIEWS - HYDRANT REPLACEMENTS

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PLAN VIEW
 SCALE: 1"=200'-0"
 0 200' 400'

LEGEND
 LEAD SERVICE REPLACEMENT LOCATIONS



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LEAD LINE SERVICE REPLACEMENT PLAN VIEW - DRAWING INDEX

Drawing No:
C2-0
 Sheet: 34 OF 49



PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'

PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- 3 NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

GENERAL NOTES:

1. CONTRACTOR TO AVOID AND PROTECT ANY EXISTING STORM MANHOLES, SEWER, OR CULVERTS. IF DISTURBED OR DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
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 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA
 Signature: [Signature] Date: 12-9-2024

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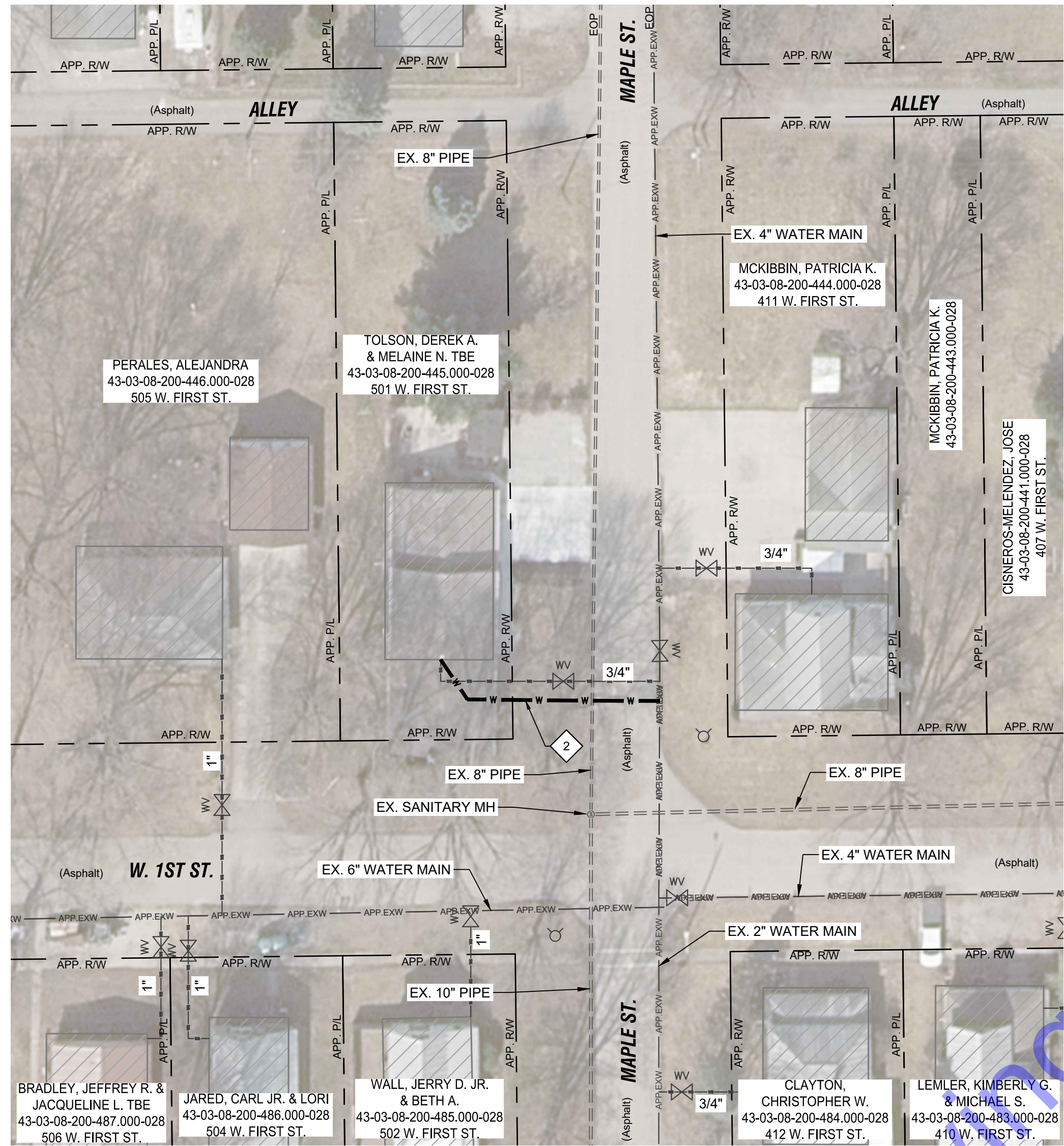
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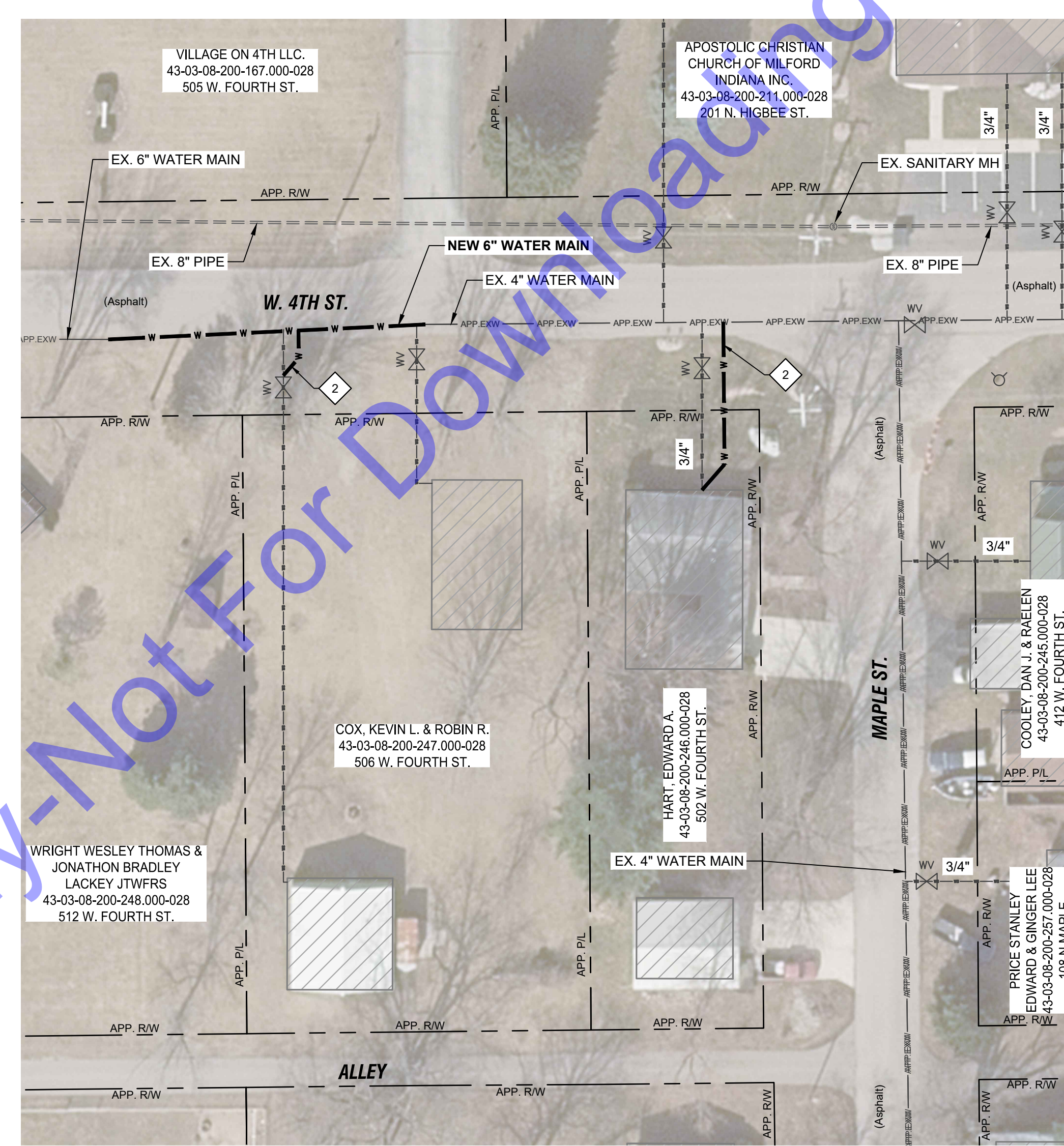
**LEAD LINE SERVICE
 REPLACEMENT PLAN
 VIEW**

Drawing No:
C2-01
 Sheet: 35 OF 49



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'

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PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
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 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA
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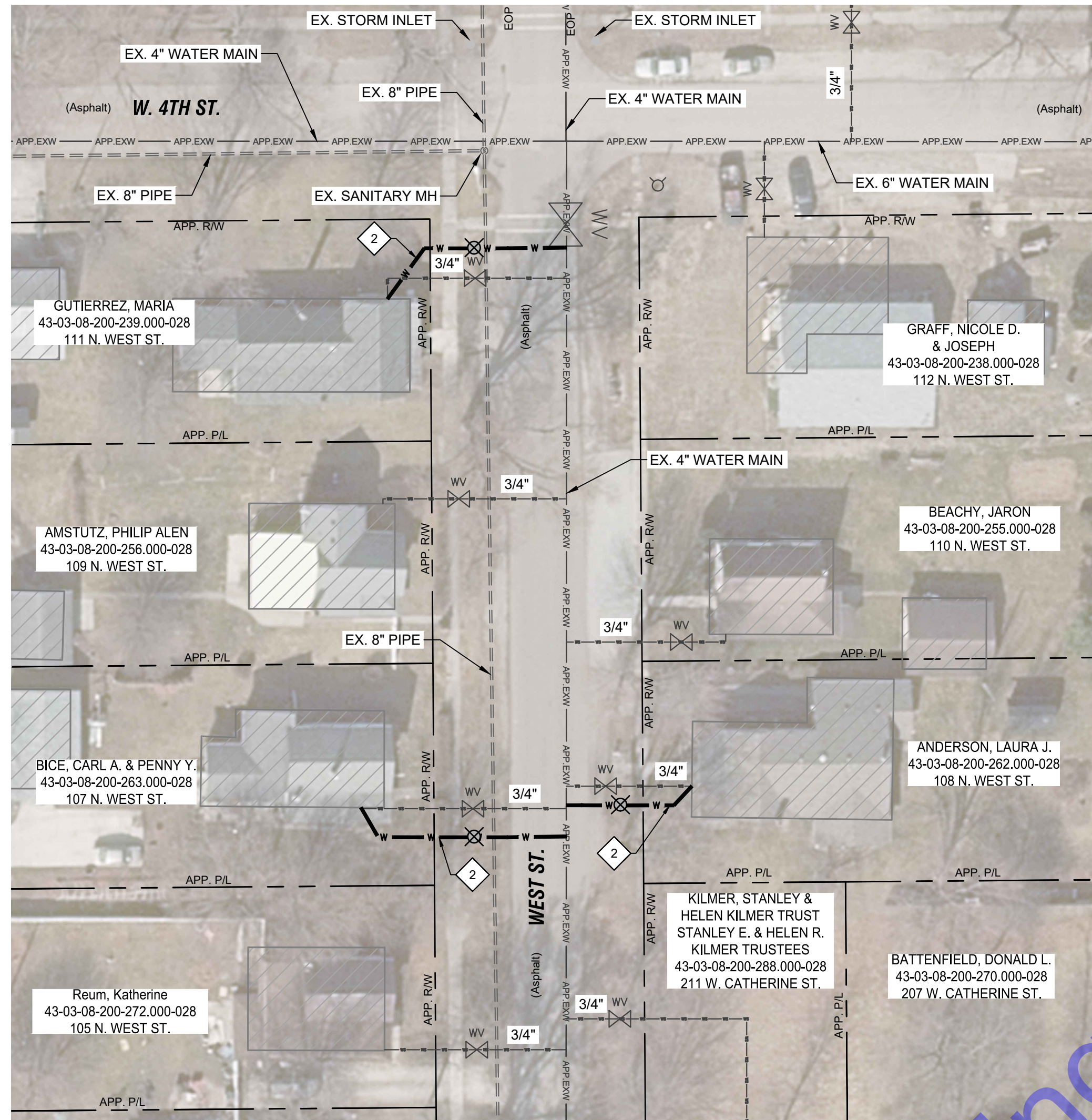
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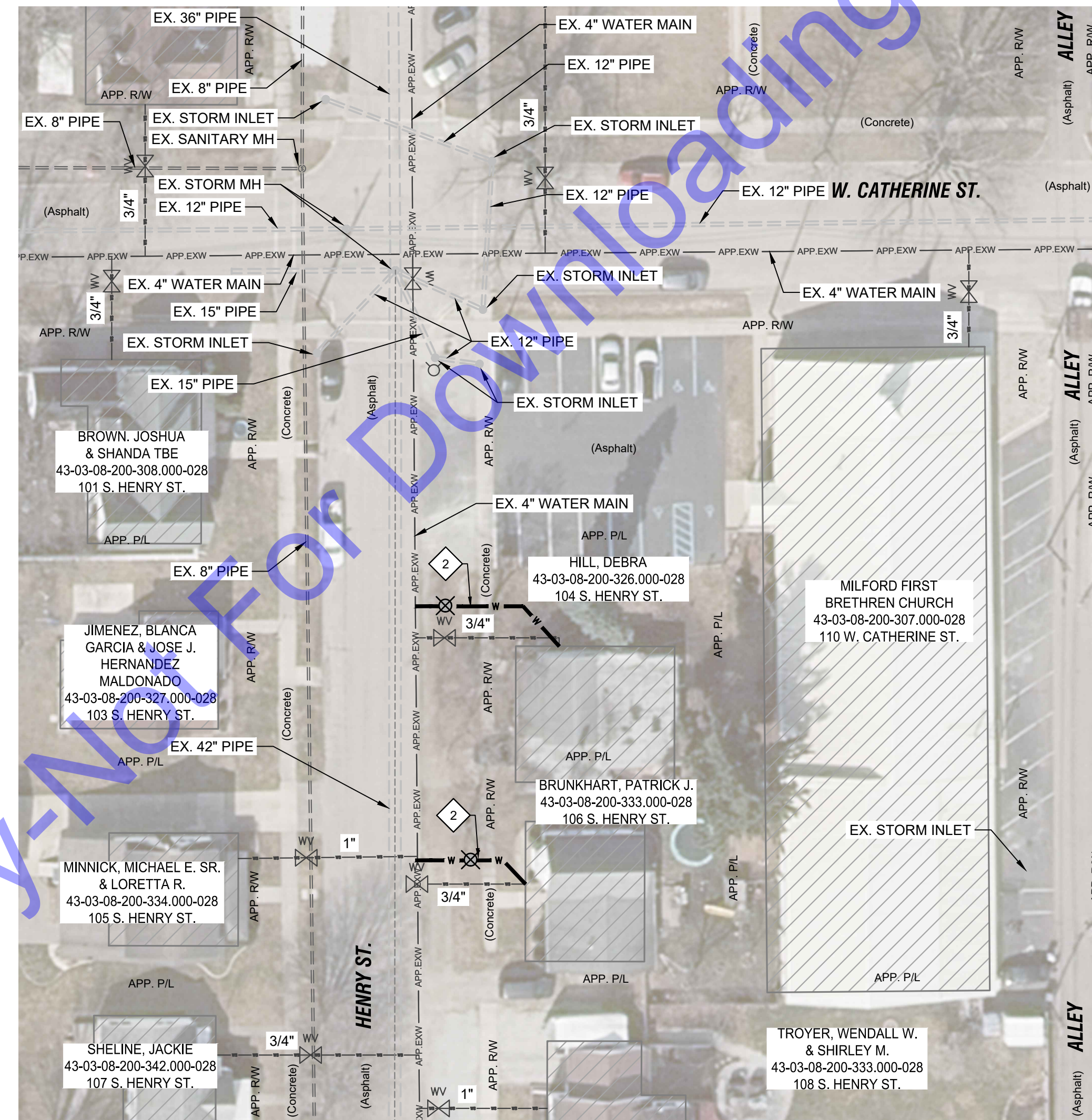
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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

Drawing No:
C2-02
 Sheet: 36 OF 49



PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'



PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'

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PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- 3 NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

GENERAL NOTES:

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**TOWN OF MILFORD
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**LEAD LINE SERVICE
 REPLACEMENT PLAN
 VIEW**

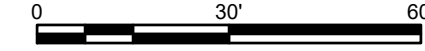
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PLAN VIEW

SCALE: 1"=30'-0"



PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- 3 NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

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 No. PE11800145
 STATE OF INDIANA

Signature: *[Signature]* Date: 12-9-2024

TOWN OF MILFORD, KOSCIUSKO COUNTY, INDIANA

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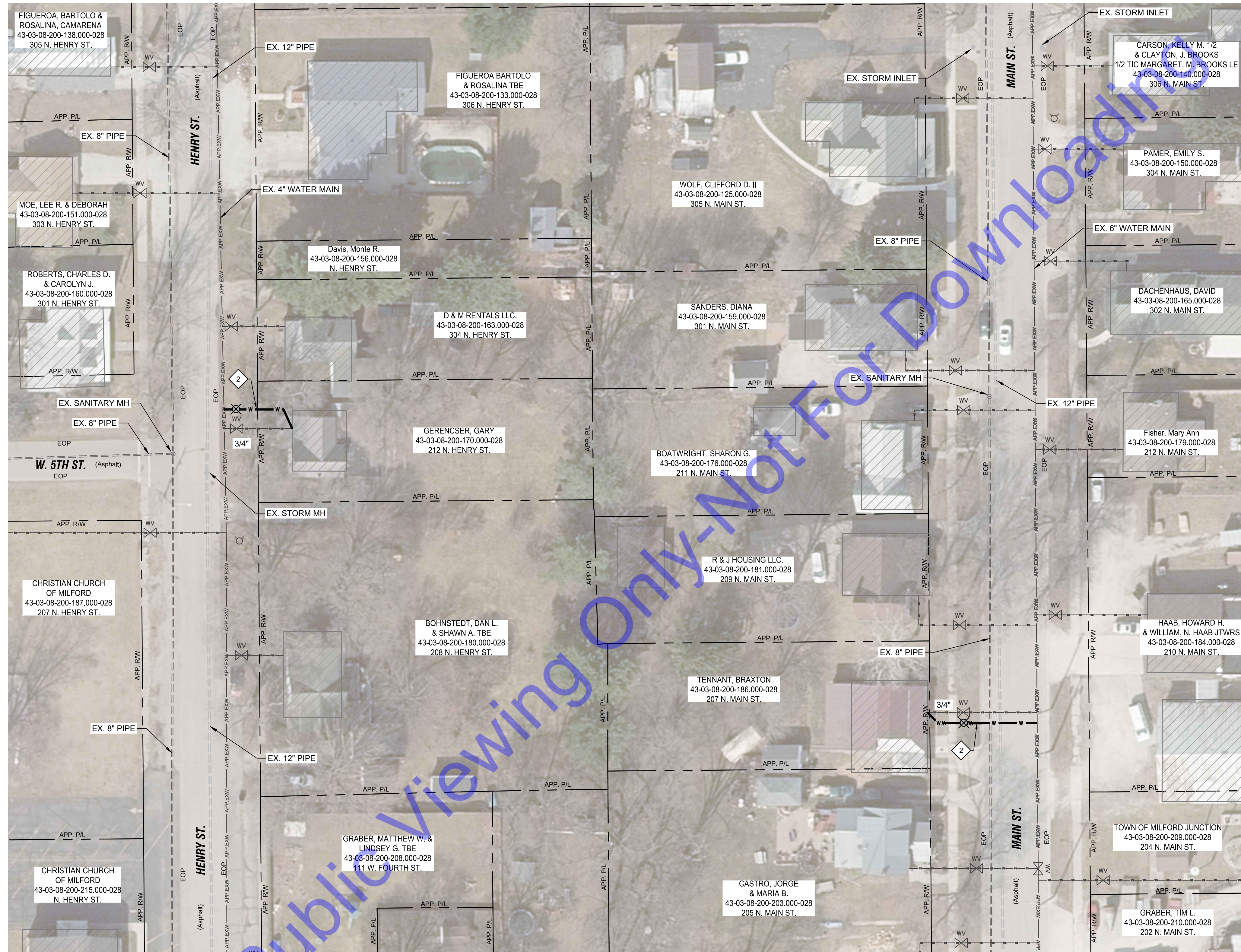
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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

Drawing No:
C2-04
 Sheet: 38 OF 49



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'

PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- 3 NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

GENERAL NOTES:

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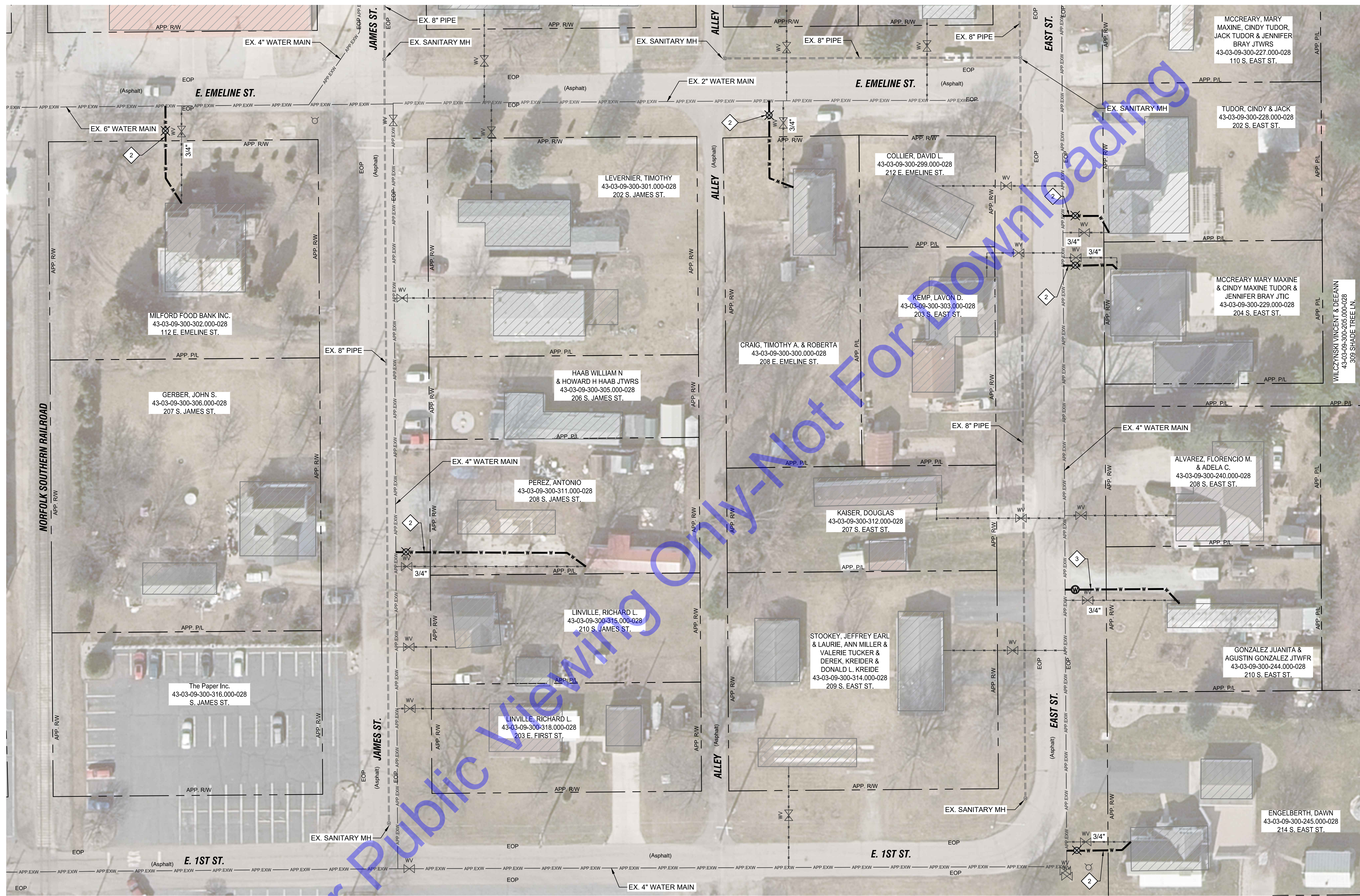
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**LEAD LINE SERVICE
 REPLACEMENT PLAN
 VIEW**

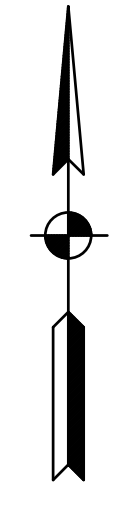
Drawing No:
C2-05
 Sheet: 39 OF 49



PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'

- PROPOSED PLAN NOTES**
- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
 - 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
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- GENERAL NOTES:**
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 No. PE11800145
 STATE OF INDIANA
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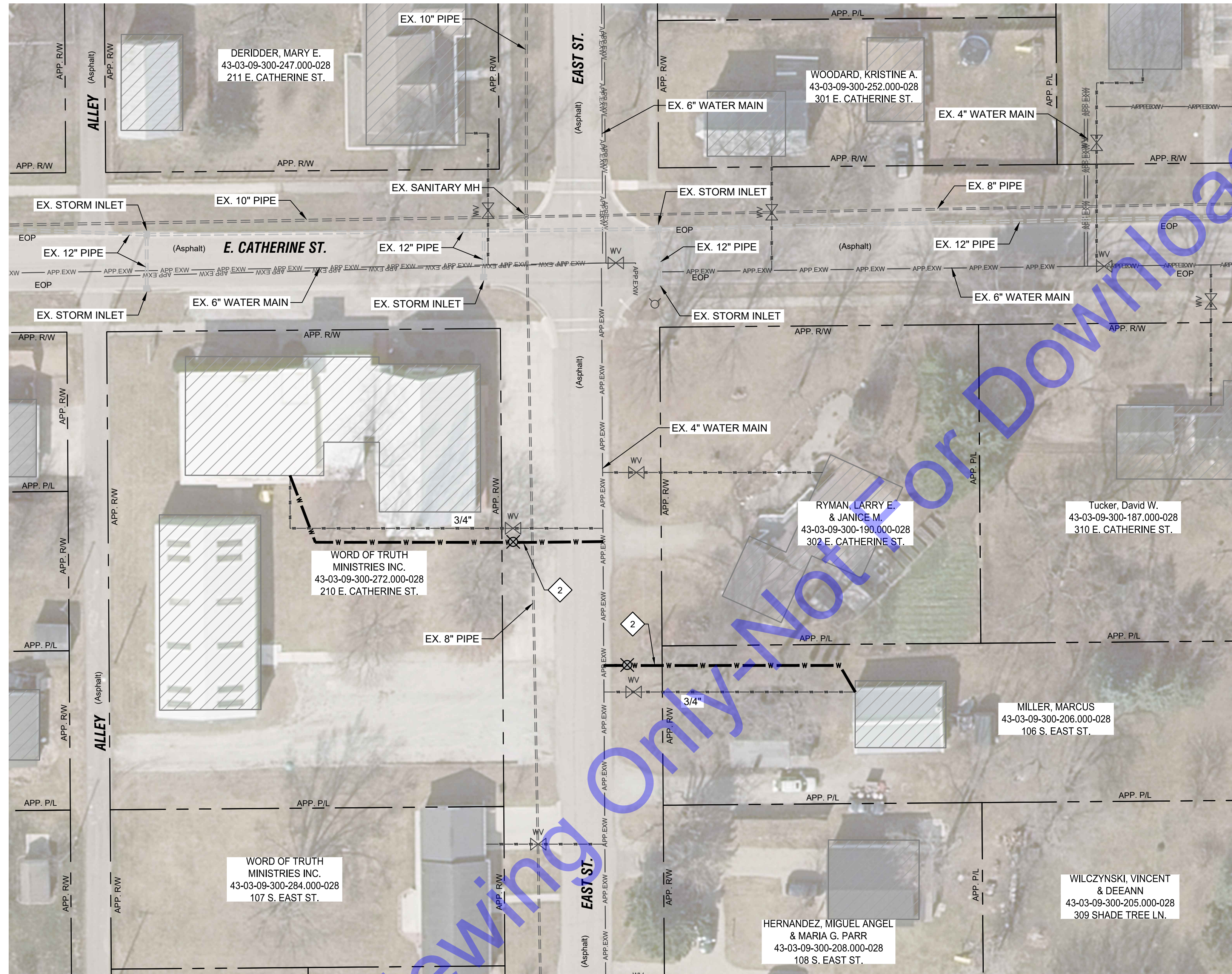
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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

Drawing No:
C2-06
 Sheet: 40 OF 49



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'

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PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
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 STATE OF INDIANA

Signature: *[Signature]* Date: 12-9-2024

**TOWN OF MILFORD
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WATER UTILITY IMPROVEMENTS
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No.	Submittal / Revision	Date	By

Designed By: RML	Drawn By: GRC	Checked By: JW
Issue Date: 1-14-25	Project No: W24161	Scale: AS SHOWN

**LEAD LINE SERVICE
 REPLACEMENT PLAN
 VIEW**

Drawing No:
C2-07
 Sheet: 41 OF 49



PLAN VIEW

SCALE: 1"=30'-0"
 0 30' 60'

PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- 3 NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

GENERAL NOTES:

1. CONTRACTOR TO AVOID AND PROTECT ANY EXISTING STORM MANHOLES, SEWER, OR CULVERTS. IF DISTURBED OR DAMAGED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
2. SANITARY LATERAL LOCATIONS ARE UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING SANITARY LATERALS PRIOR TO INSTALLATION OF NEW WATER MAIN OR WATER SERVICES.
3. SANITARY SEWER DEPTH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF NEW WATER SERVICES.

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 SOUTH BEND, IN

RYAN M. LAREAU
 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA
 Signature: [Signature] Date: 12-9-2024

**TOWN OF MILFORD
 KOSCIUSKO COUNTY,
 INDIANA**
 WATER UTILITY IMPROVEMENTS
 DIVISION "B" - WATER MAIN AND
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**LEAD LINE SERVICE
 REPLACEMENT PLAN
 VIEW**

Drawing No:
C2-08
 Sheet: 42 OF 49

FOR CONTINUATION SEE DWG C2-08

FOR CONTINUATION SEE DWG C2-08



PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'

- PROPOSED PLAN NOTES**
- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
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LEAD LINE SERVICE REPLACEMENT PLAN VIEW

Drawing No:
C2-09
 Sheet: 43 OF 49

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**TOWN OF MILFORD
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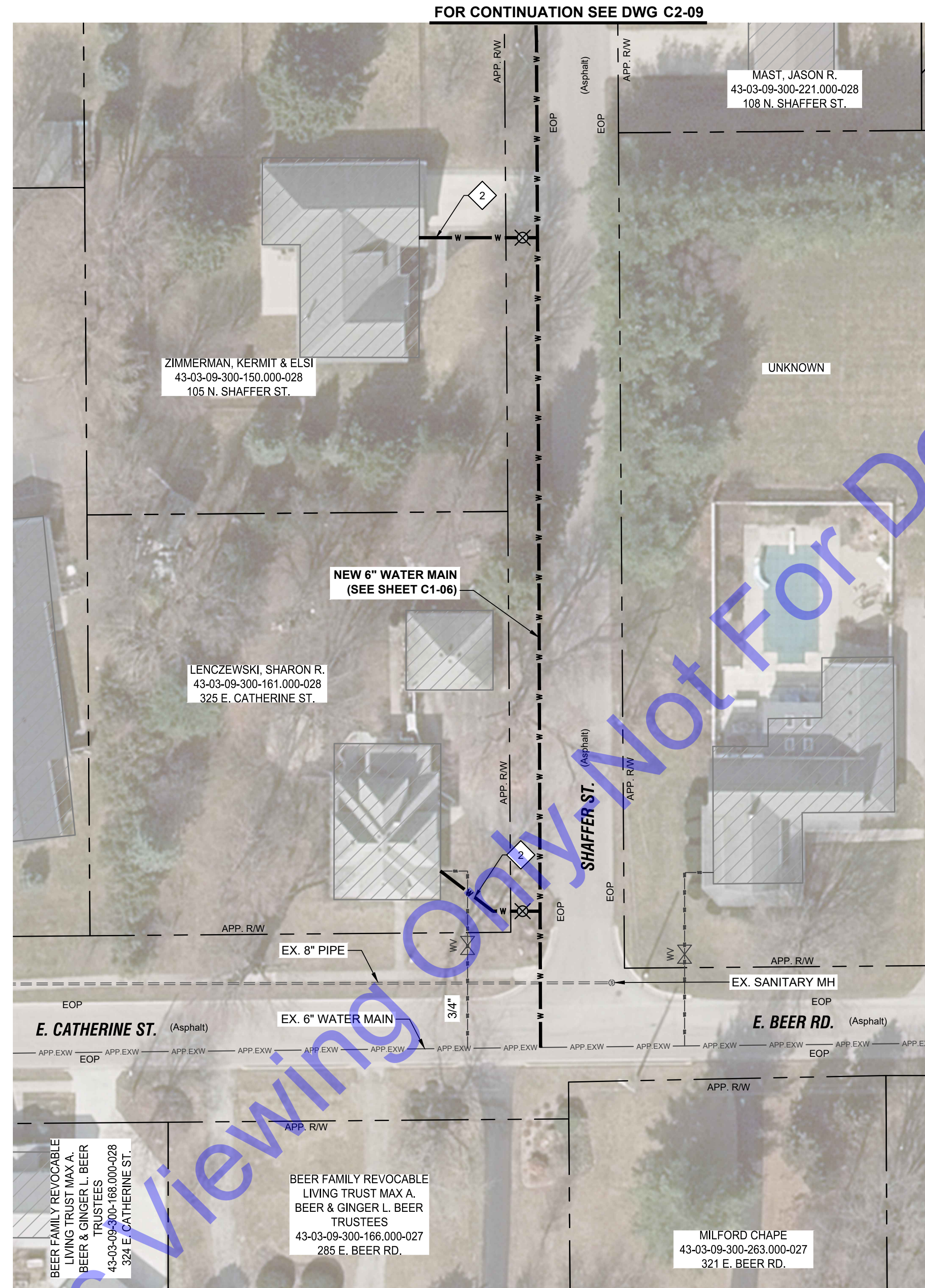
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PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'

FOR CONTINUATION SEE DWG C2-09

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PROPOSED PLAN NOTES

- 1 NEW FIRE HYDRANT AND HYDRANT VALVE
- 2 NEW 1" WATER SERVICE AND CURB STOP (SEE DETAILS, DWG. MD5)
- 3 NEW 1" WATER SERVICE AND METER PIT (SEE DETAILS, DWG. MD4)

GENERAL NOTES:

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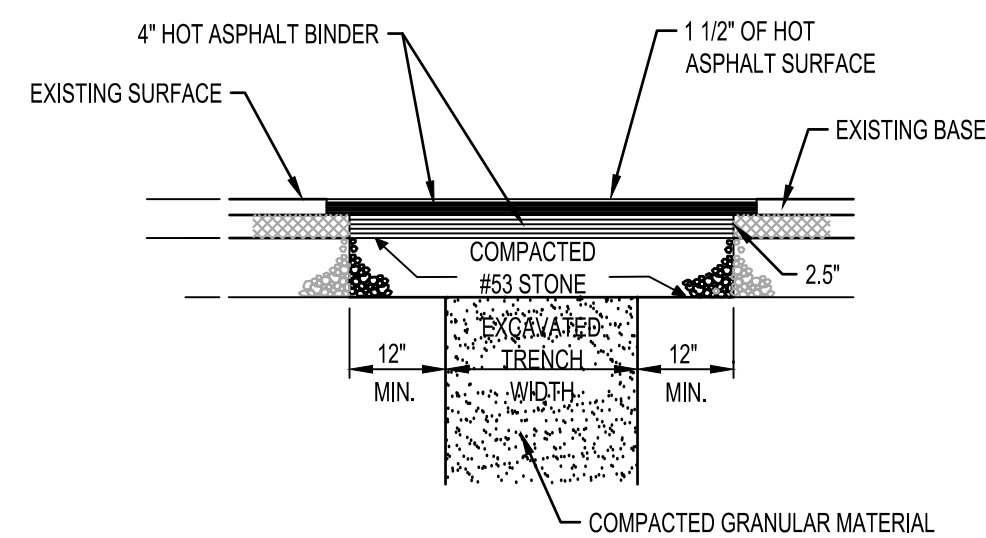
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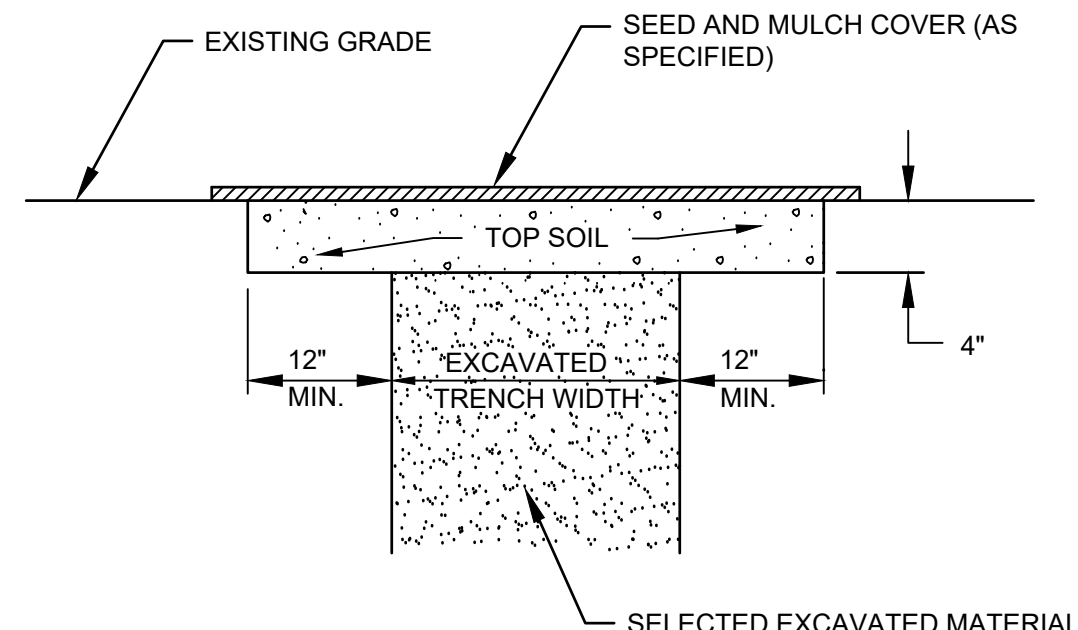
**LEAD LINE SERVICE
 REPLACEMENT PLAN
 VIEW**

Drawing No:
C2-10
 Sheet: 44 OF 49



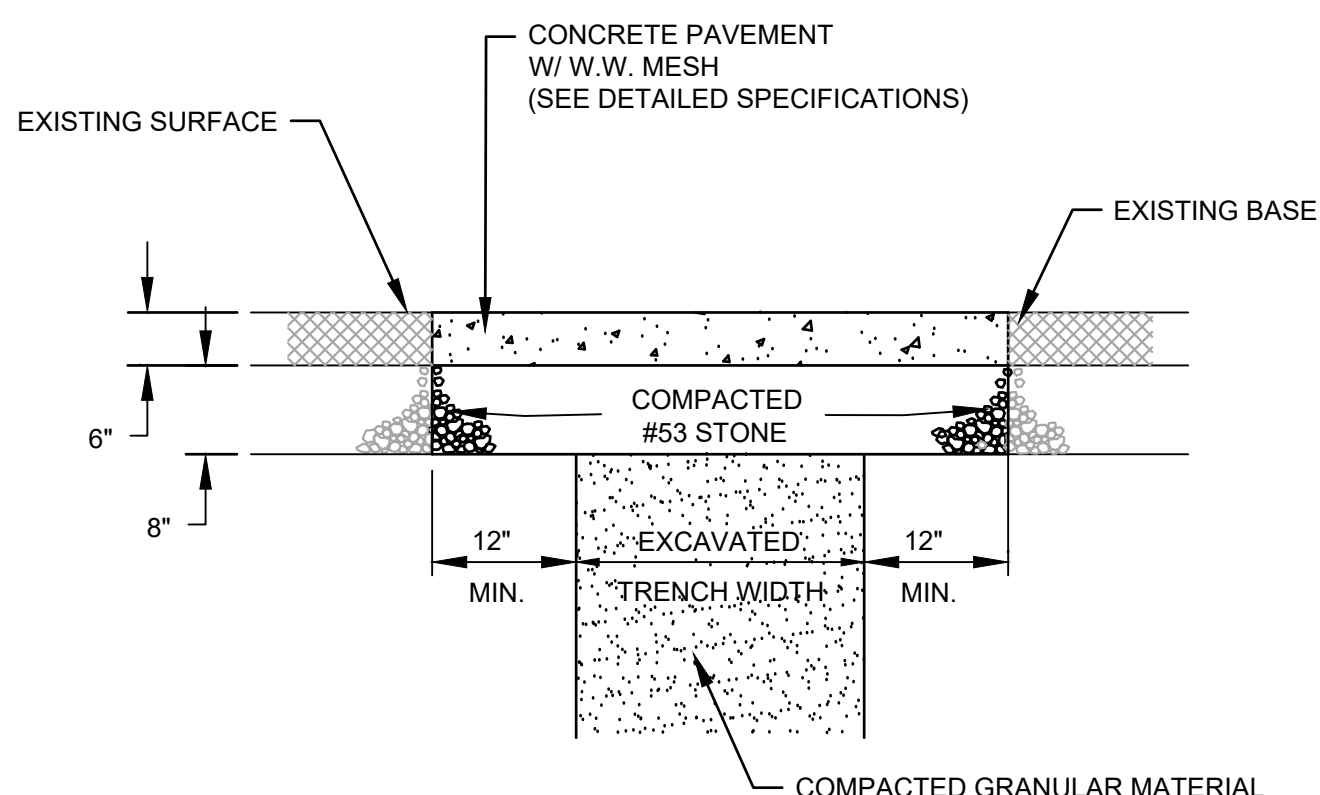
SURFACE RESTORATION DETAIL FOR ASPHALT PAVEMENT - LOCAL ROAD

NOT TO SCALE



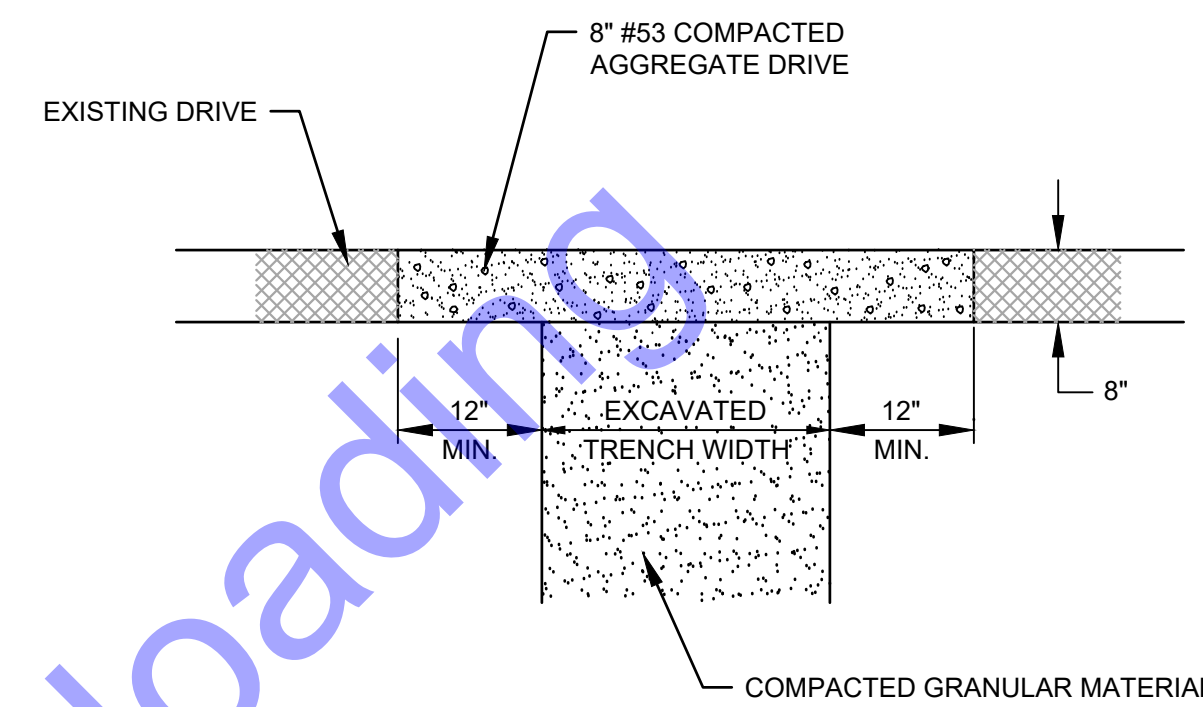
SURFACE RESTORATION DETAIL FOR GRASS AREA

NOT TO SCALE



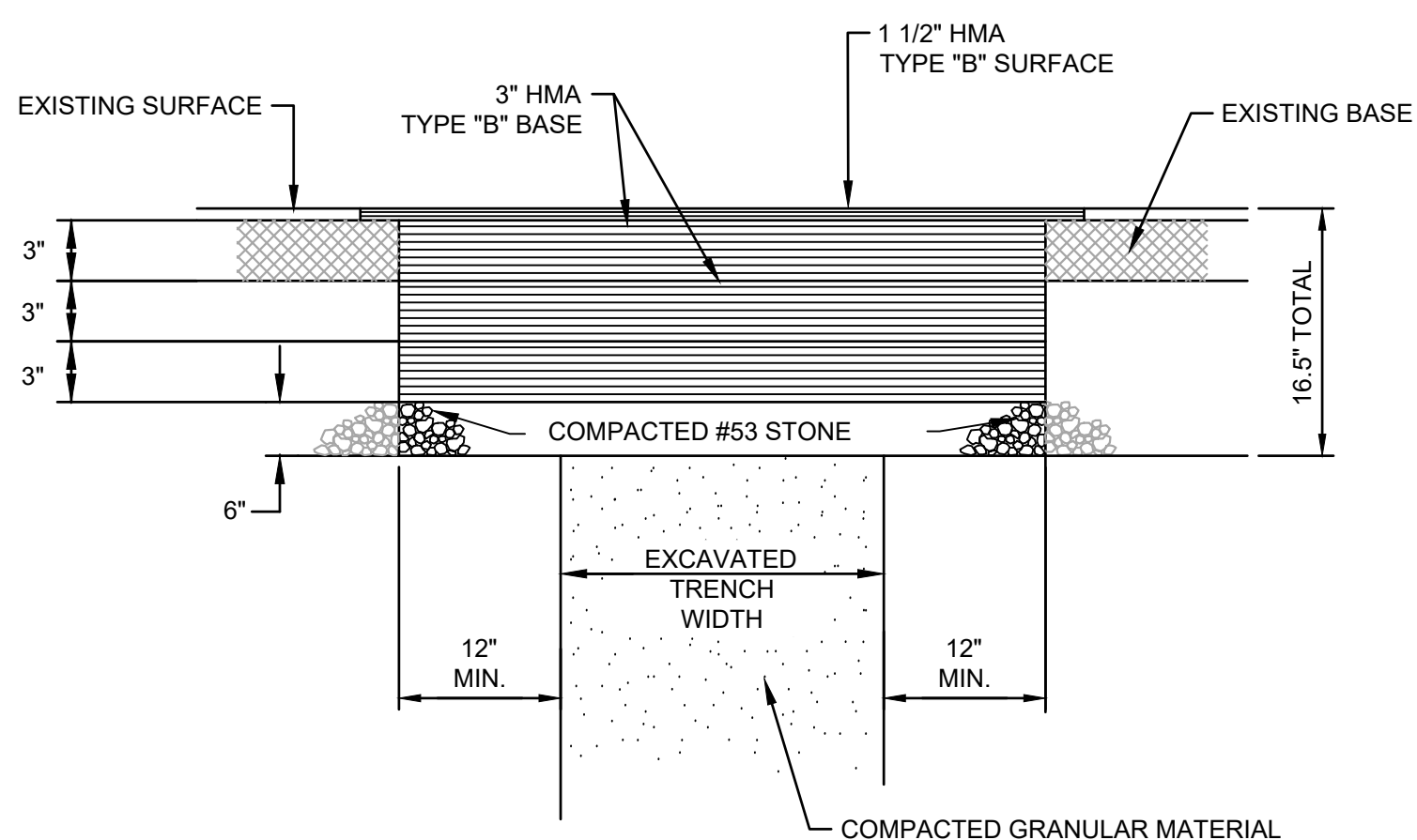
SURFACE RESTORATION DETAIL FOR CONCRETE AREA - DRIVE

NOT TO SCALE



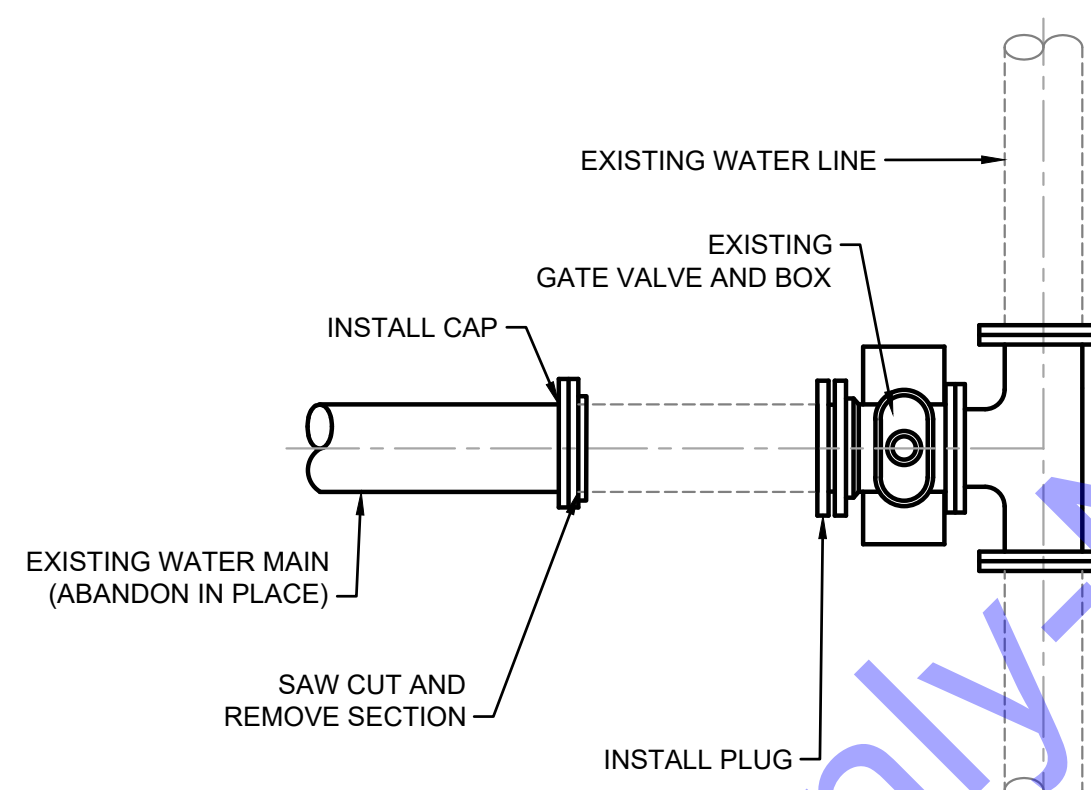
SURFACE RESTORATION DETAIL FOR GRAVEL PAVEMENT - ROAD

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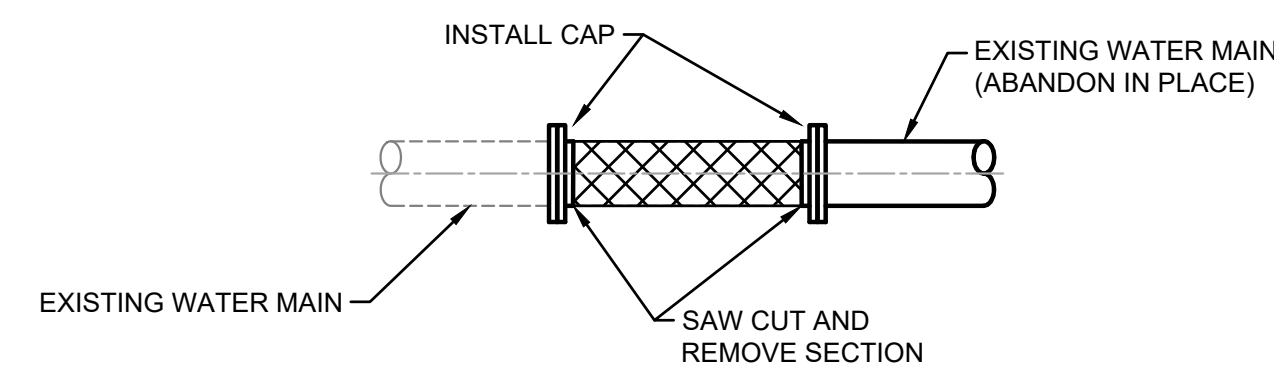
HIGHWAY REPLACEMENT DETAIL

NOT TO SCALE



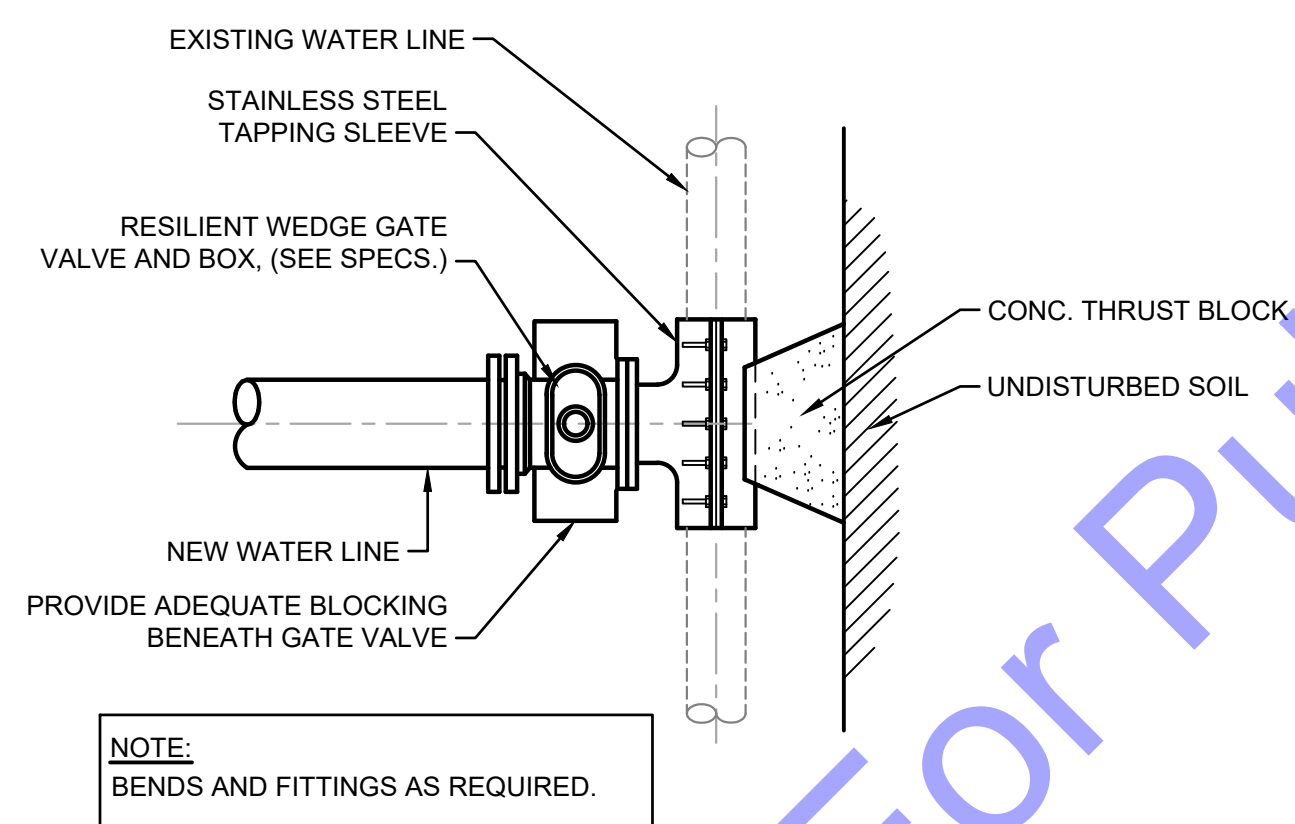
CUT AND CAP/PLUG DETAIL

NOT TO SCALE



WATER MAIN CUT AND CAP DETAIL

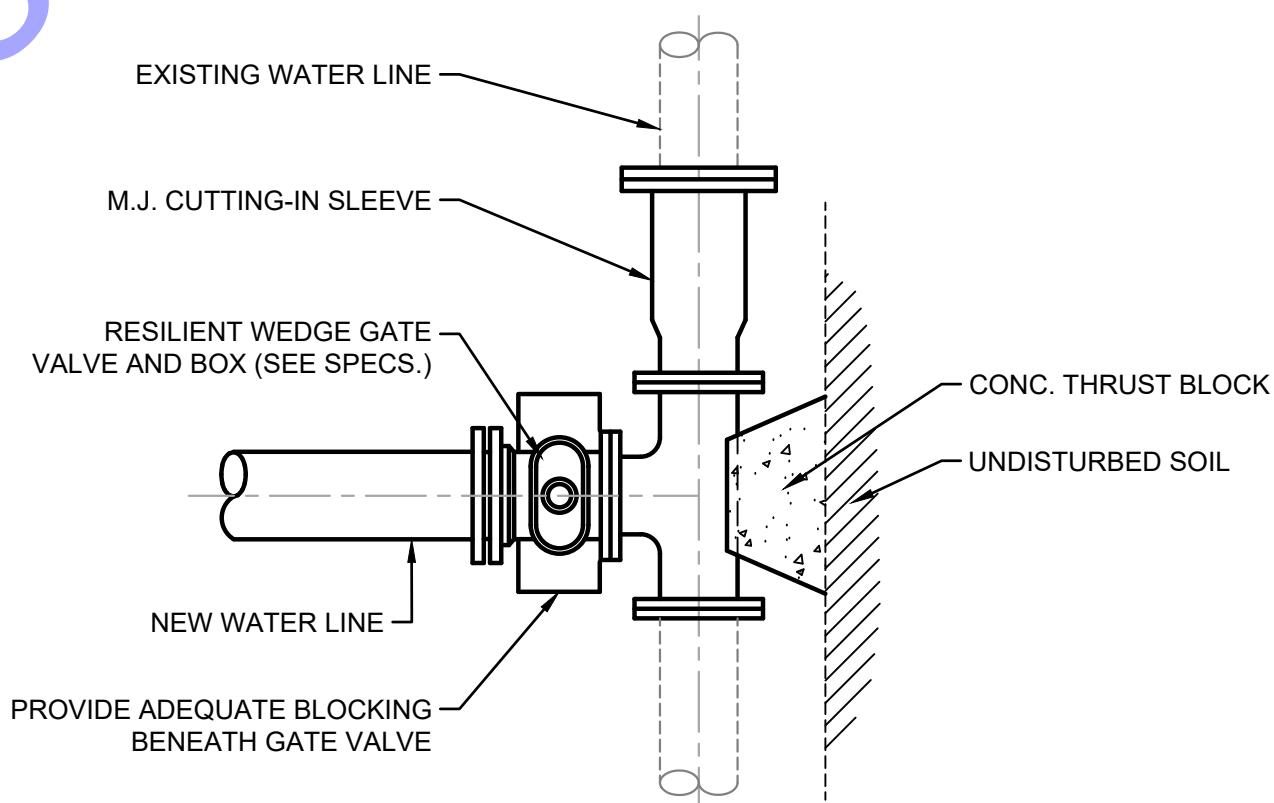
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NOTE:
BENDS AND FITTINGS AS REQUIRED.

TYPE "A" CONNECTION TO EXISTING WATER MAIN

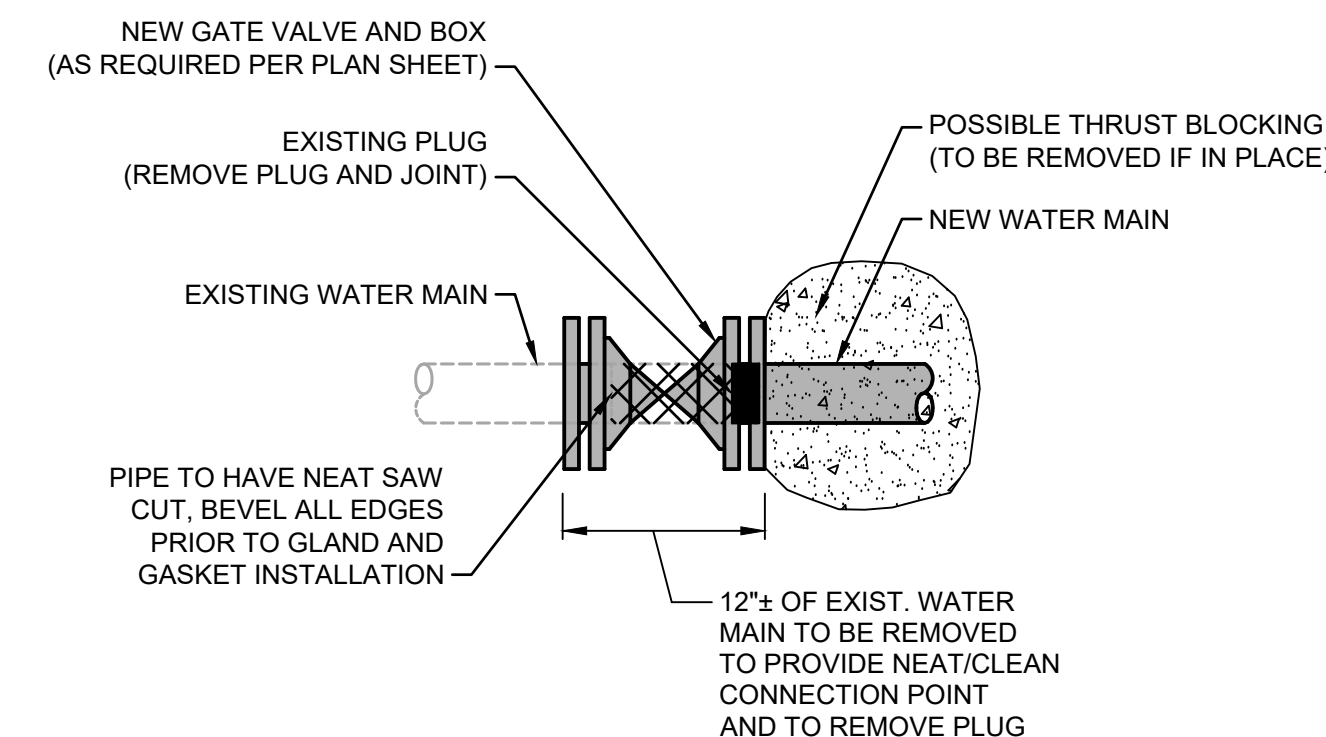
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NOTE:
BENDS AND FITTINGS AS REQUIRED.

TYPE "B" CONNECTION TO EXISTING WATER MAIN

NOT TO SCALE

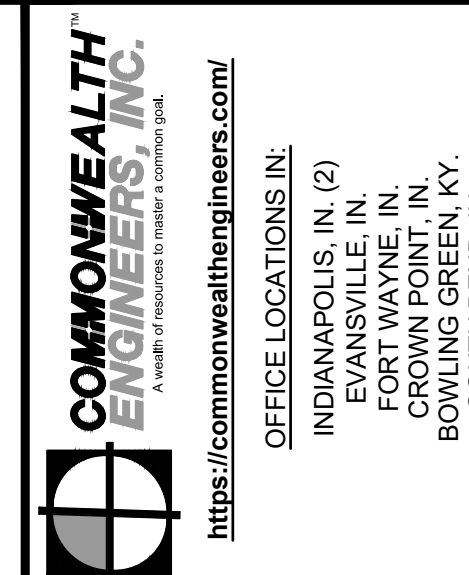


TYPE "C" CONNECTION TO EXISTING WATER MAIN

NOT TO SCALE

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 REGISTERED PROFESSIONAL ENGINEER
 No. PE11800145
 STATE OF INDIANA

Signature: _____ Date: 12-9-2024

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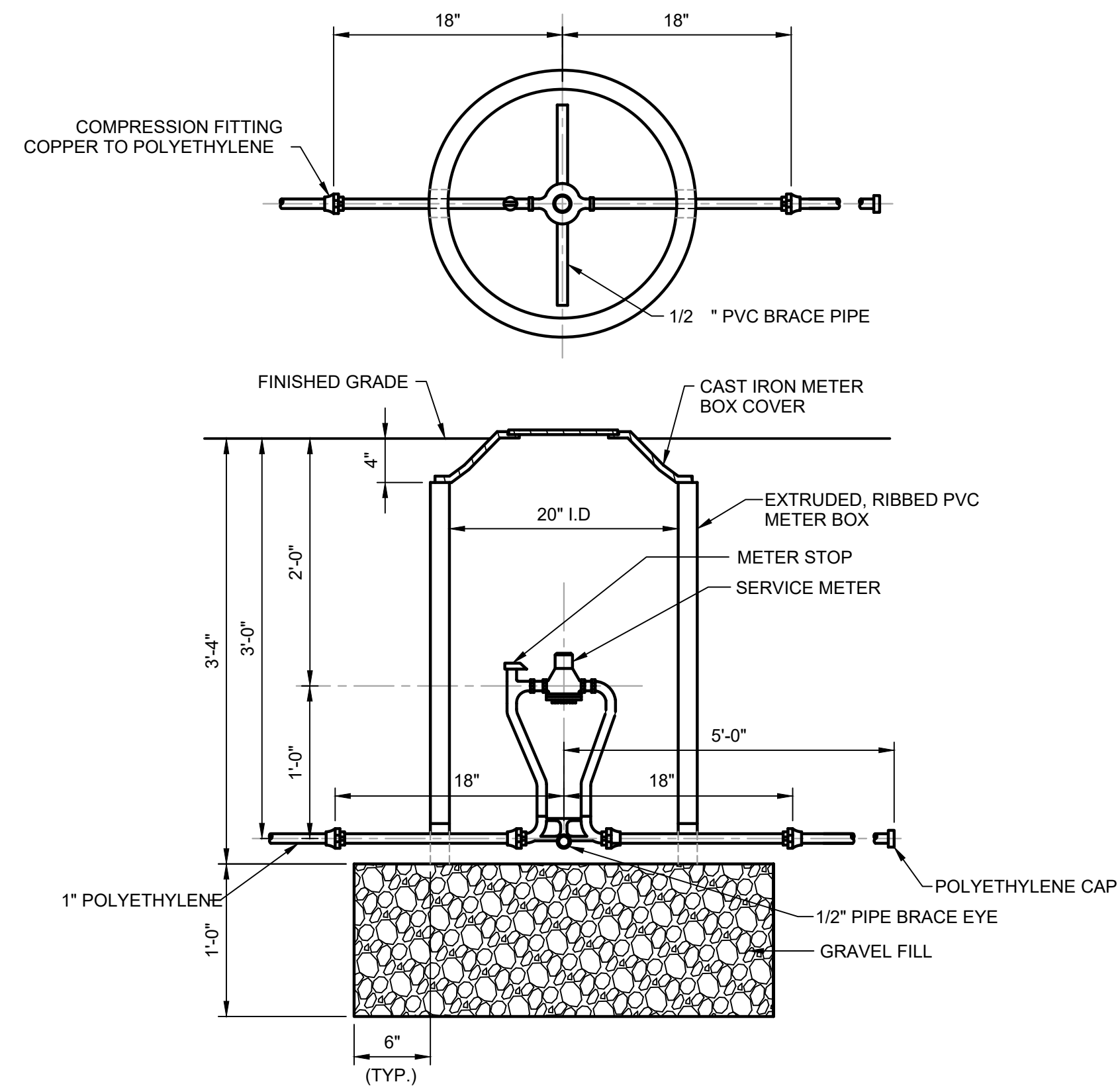
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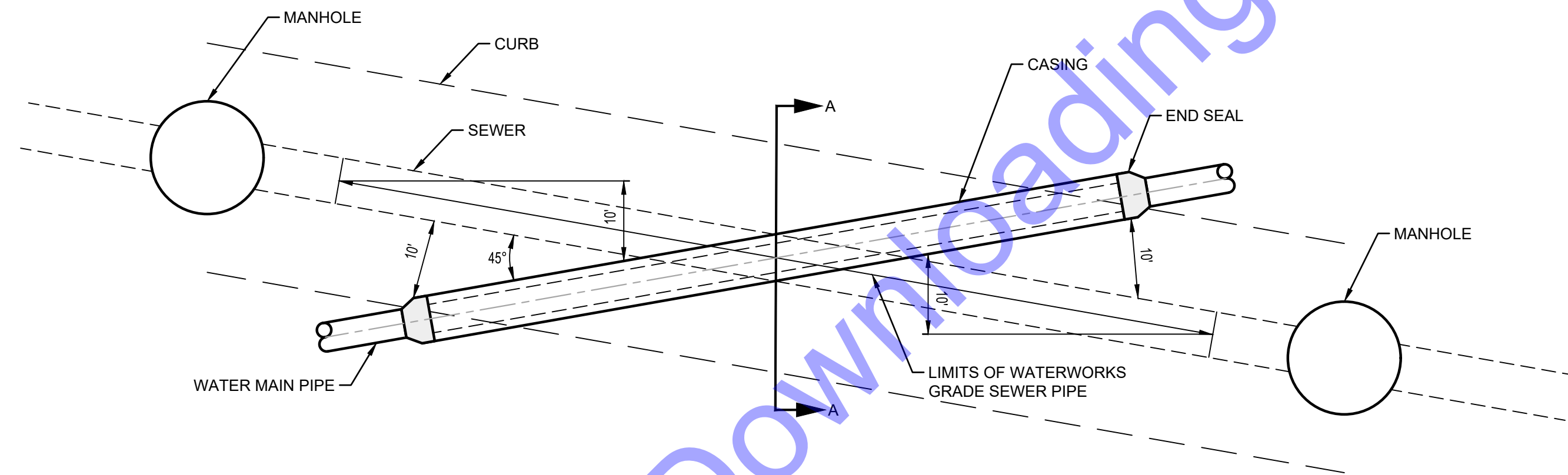
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MISCELLANEOUS DETAILS

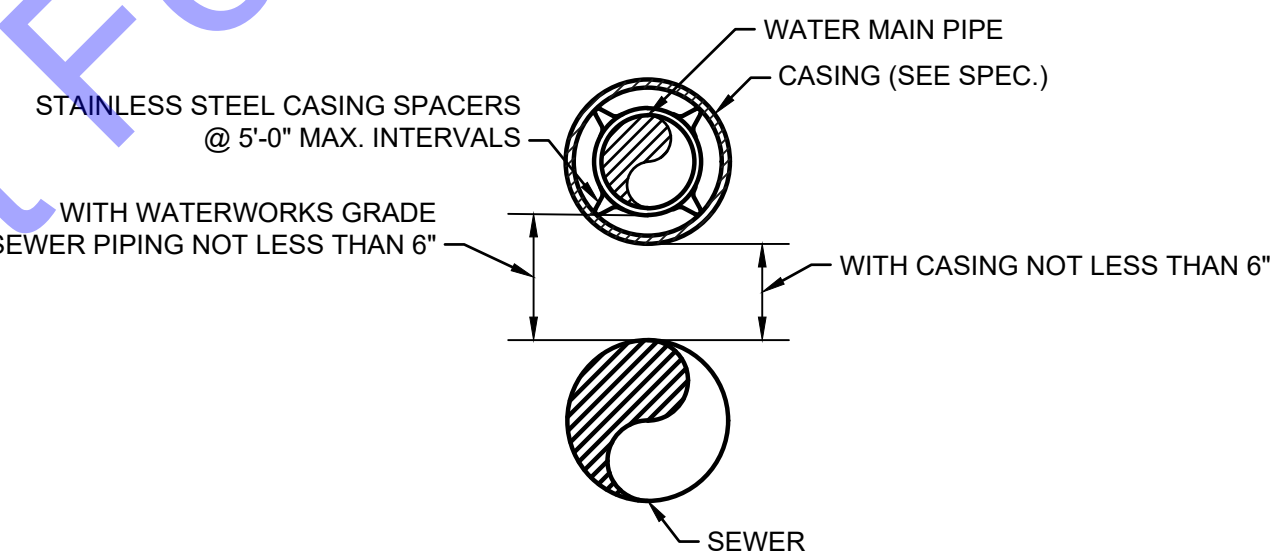
Drawing No:
MD1
 Sheet: 45 OF 49



METER INSTALLATION DETAIL
NOT TO SCALE

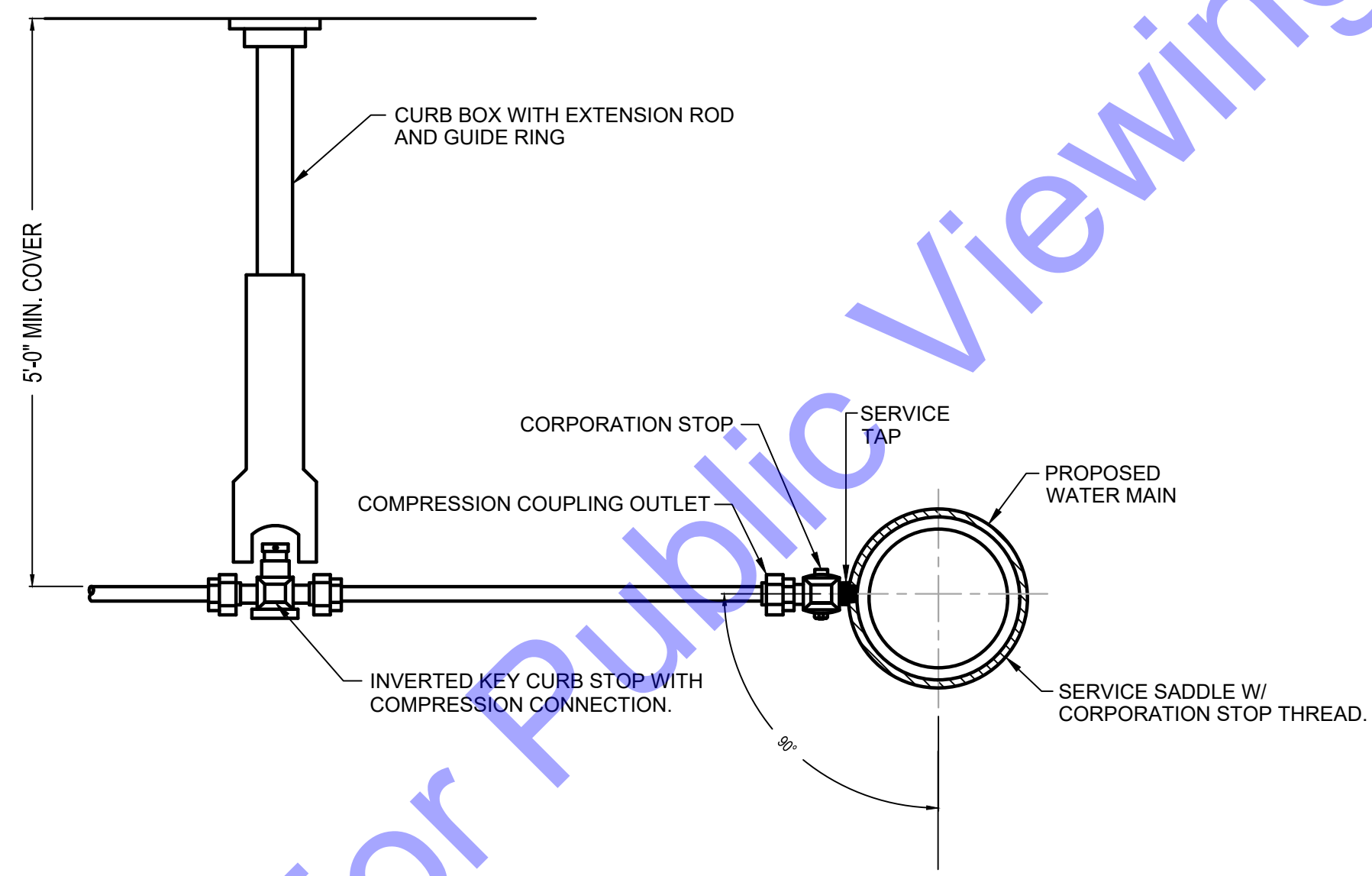


PLAN
NOT TO SCALE

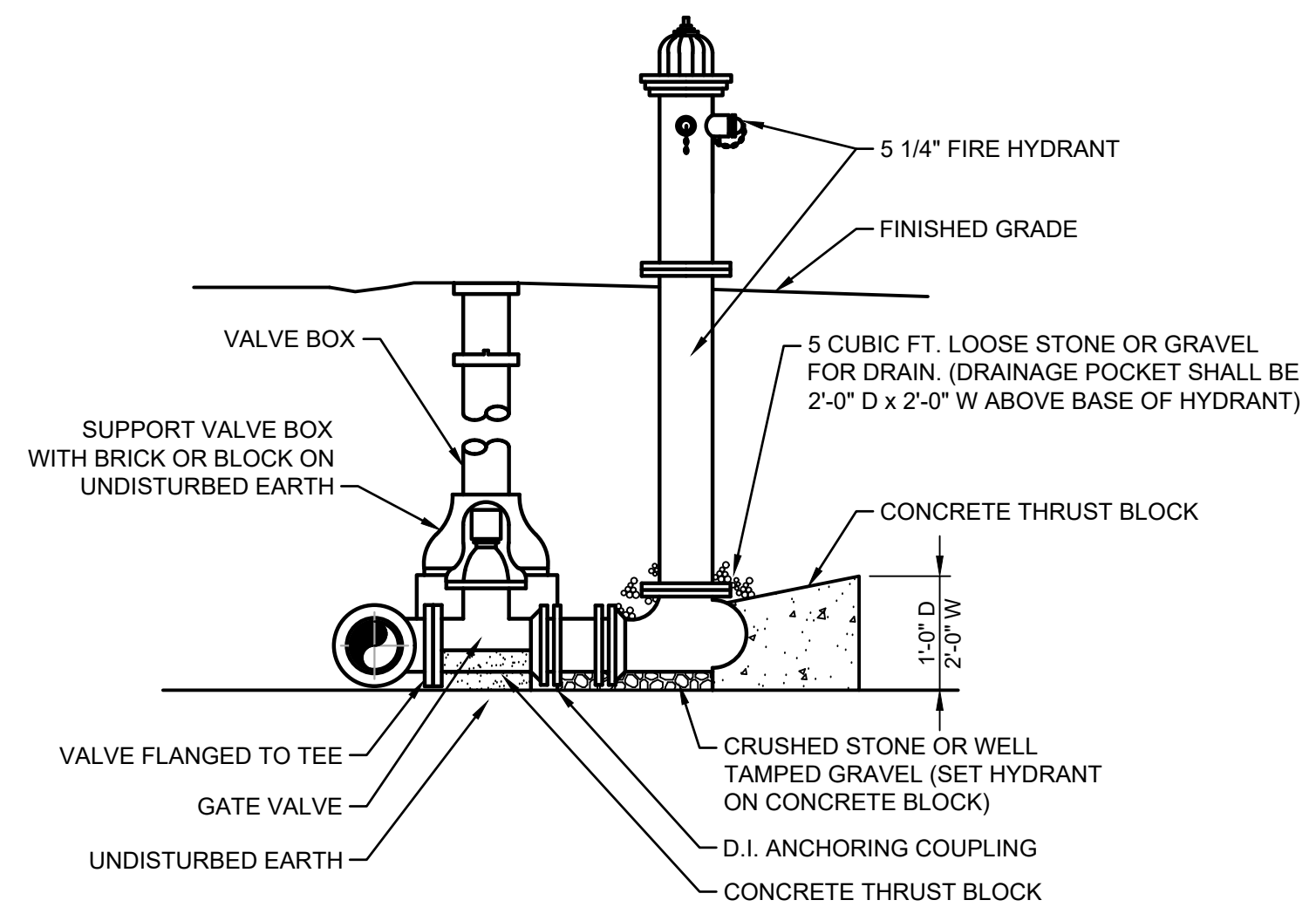


SECTION A
NOT TO SCALE

WATER-HORIZONTAL SEPARATION FROM SEWERS
NOT TO SCALE



WATER SERVICE WITH CURB BOX DETAIL
NOT TO SCALE



FIRE HYDRANT DETAIL
NOT TO SCALE

FILE: Z:\SHARED\CLIENTS\MILFORD\WATER UTILITY IMPROVEMENTS\CADD\CURRENT FILES\DRAWINGS\DWG\MILFORD\MISC\MISCELLANEOUS DETAILS.DWG
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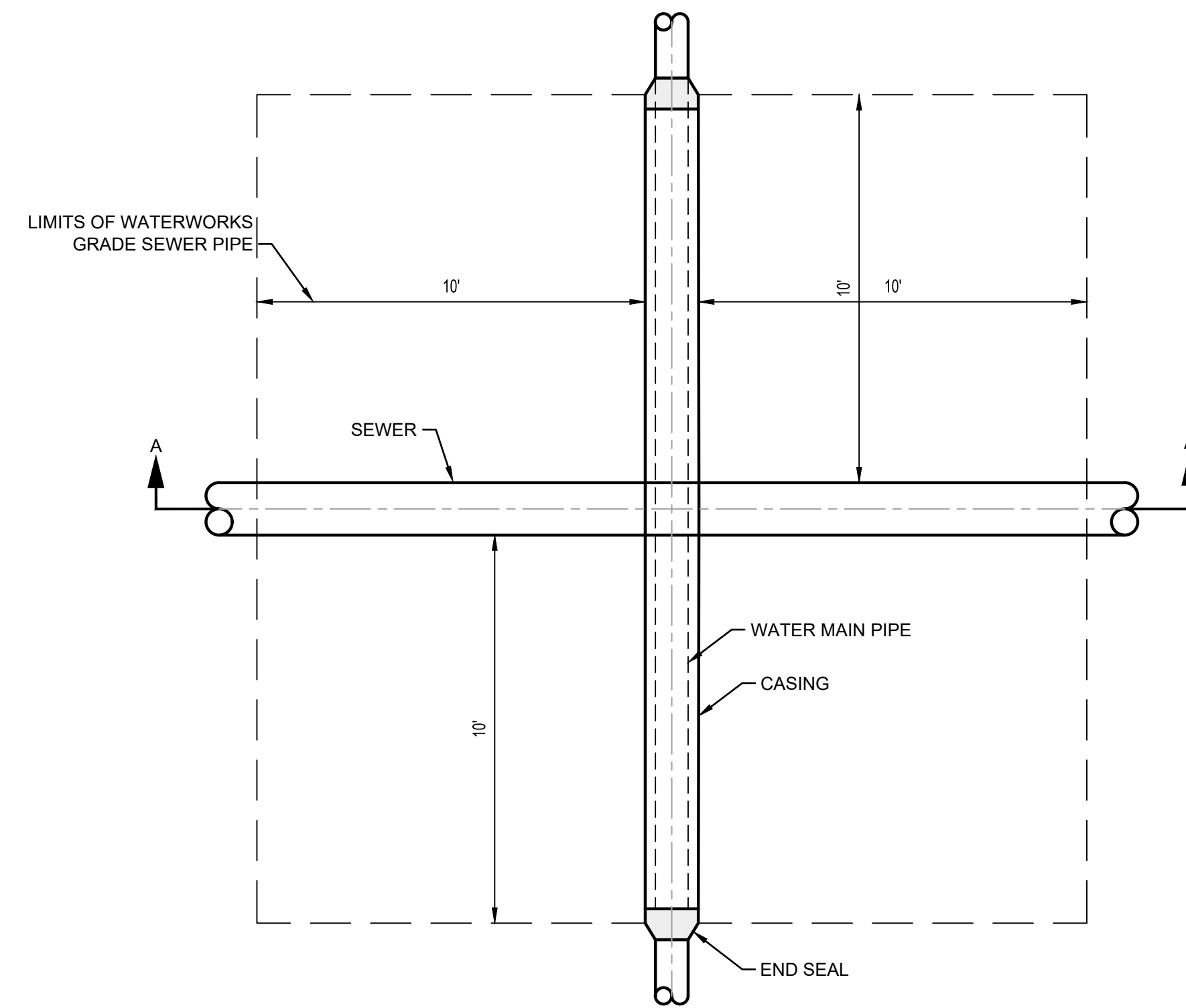
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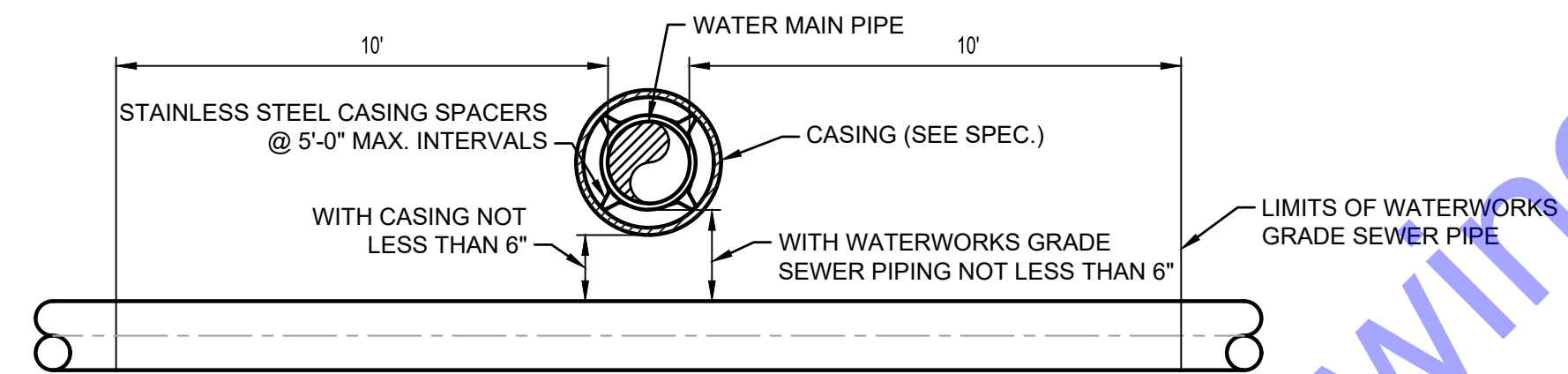
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DETAILS

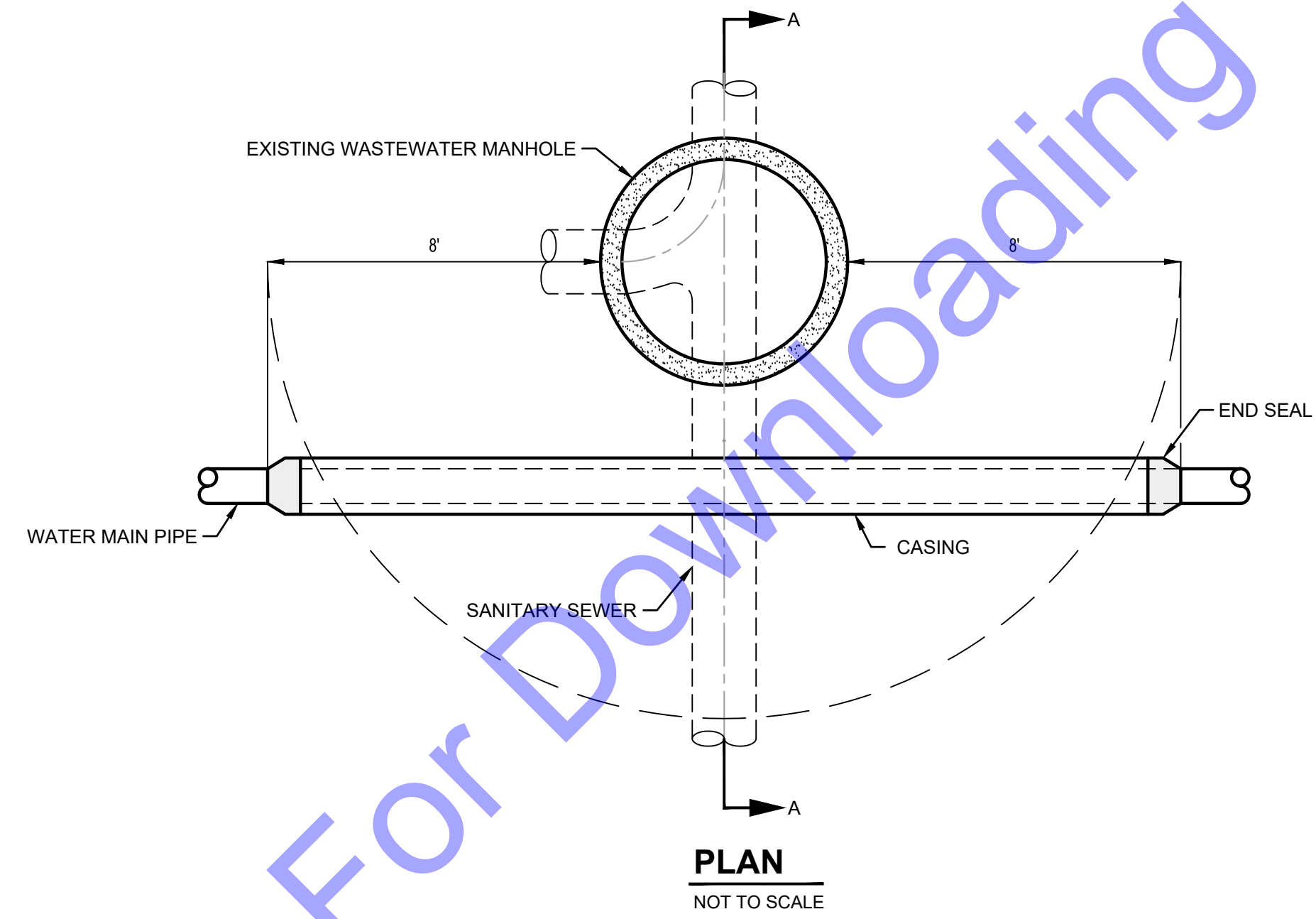


PLAN
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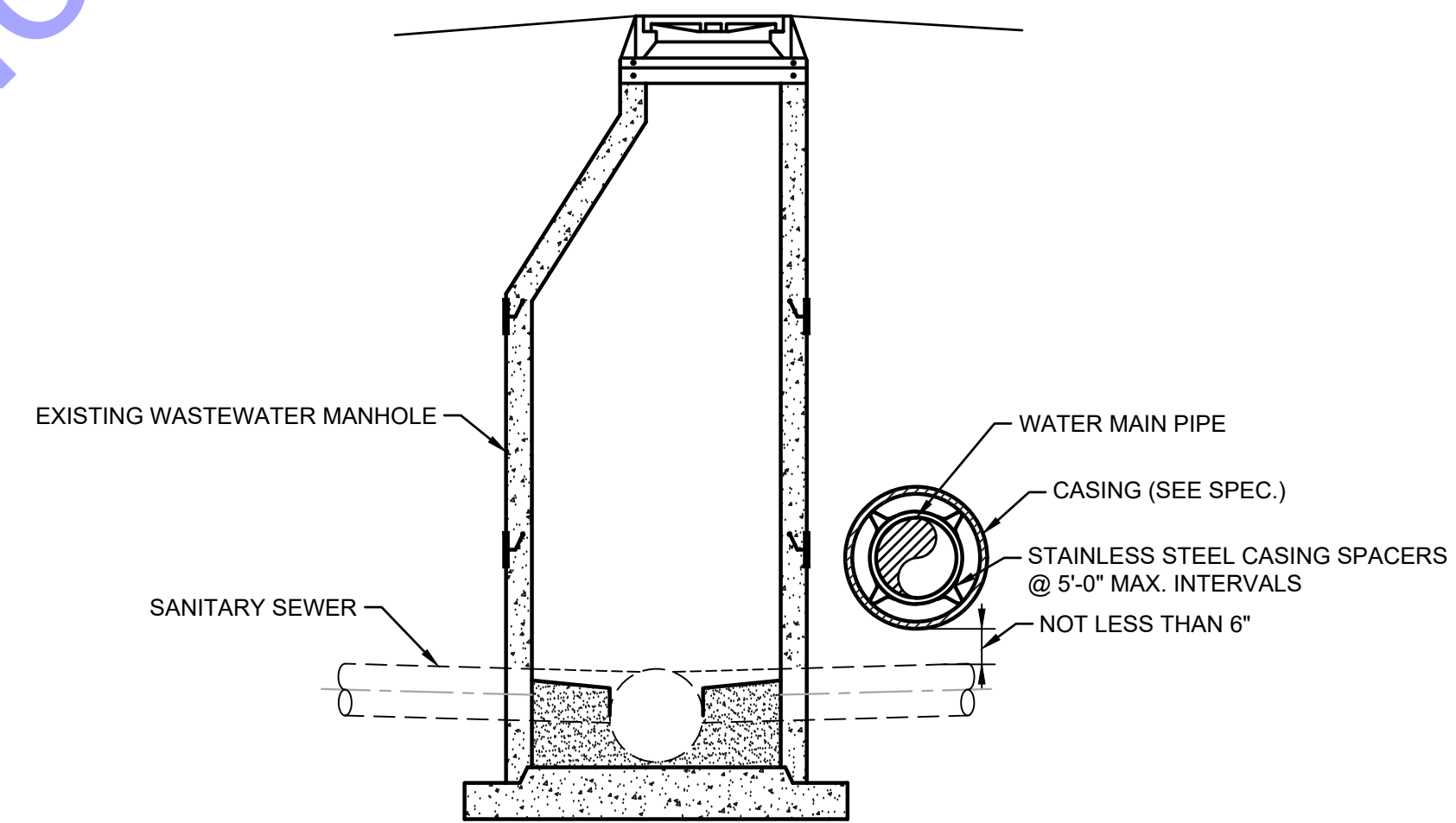


SECTION A
NOT TO SCALE

WATER-VERTICAL SEPARATION FROM SEWERS
NOT TO SCALE



PLAN
NOT TO SCALE



SECTION A

SCALE: 1"=5'-0"
0 5 10'

WATER-HORIZONTAL SEPARATION FROM EXISTING WASTEWATER MANHOLES
NOT TO SCALE

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TOWN OF MILFORD, KOSCIUSKO COUNTY, INDIANA

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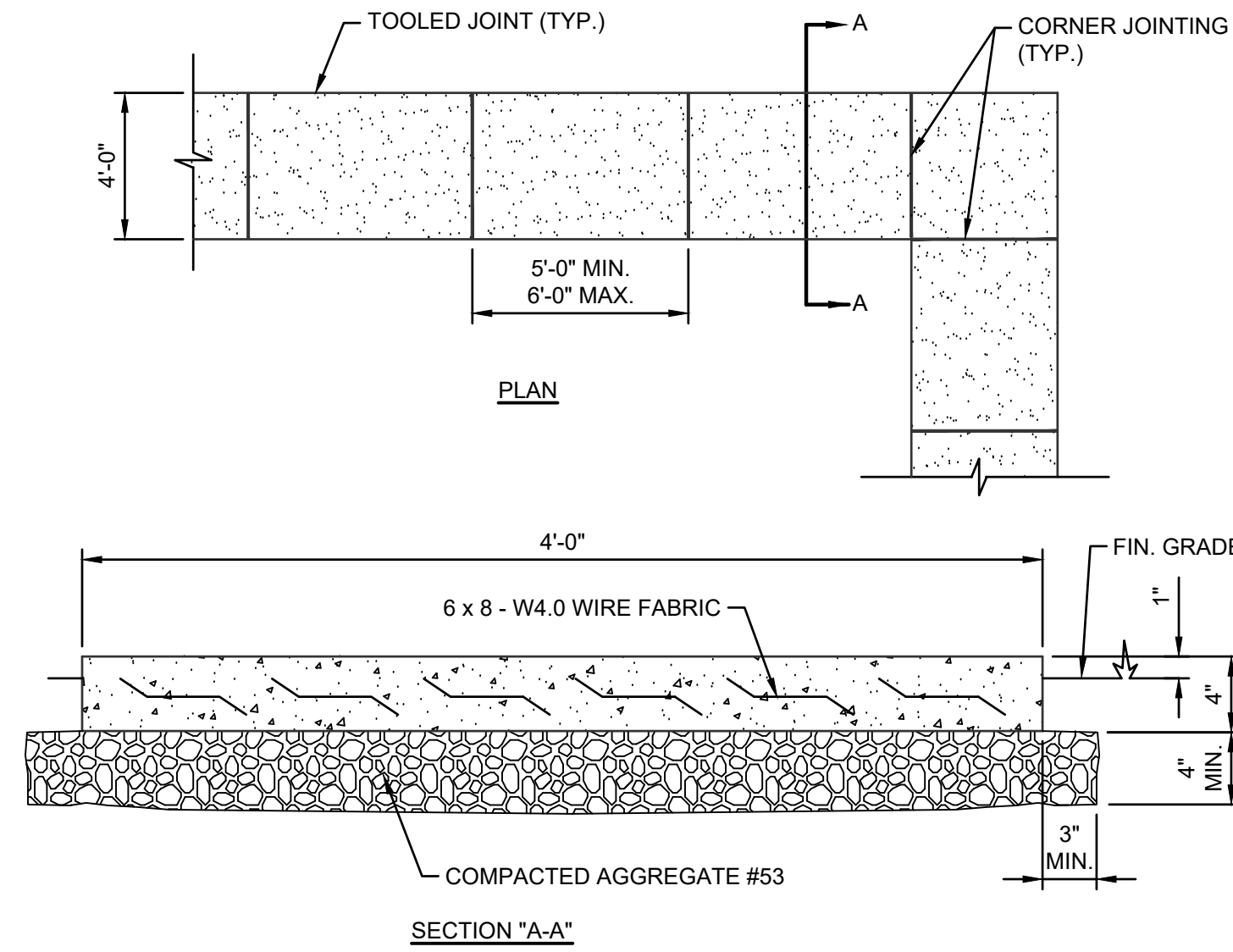
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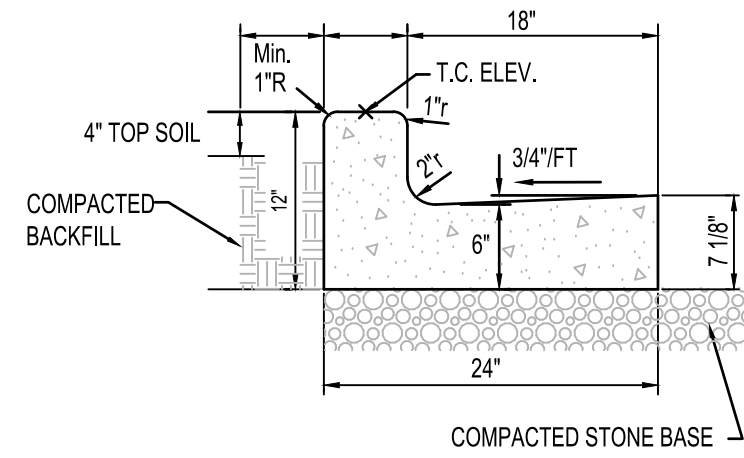
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Drawing No:
MD3
Sheet: 47 OF 49

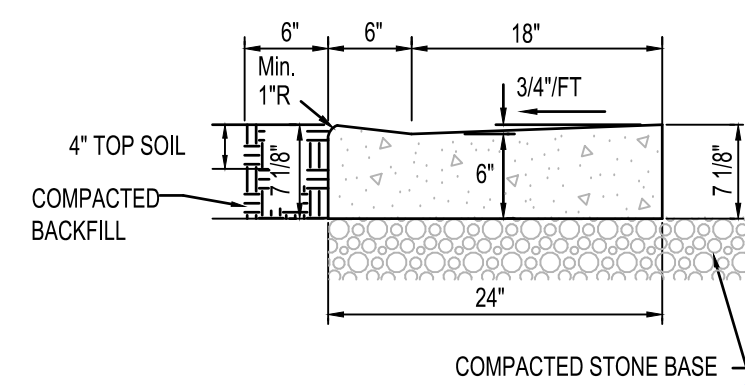


- GENERAL NOTES:**
1. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT SPACING AT A MINIMUM OF 6'-0"
 2. SIDEWALK SHALL BE 6" THICK WITH 8" OF COMPACTED AGGREGATE No. 53 AT ALL DRIVEWAY CROSSINGS
 3. SIDE SLOPE SHALL BE 1/4" / FT

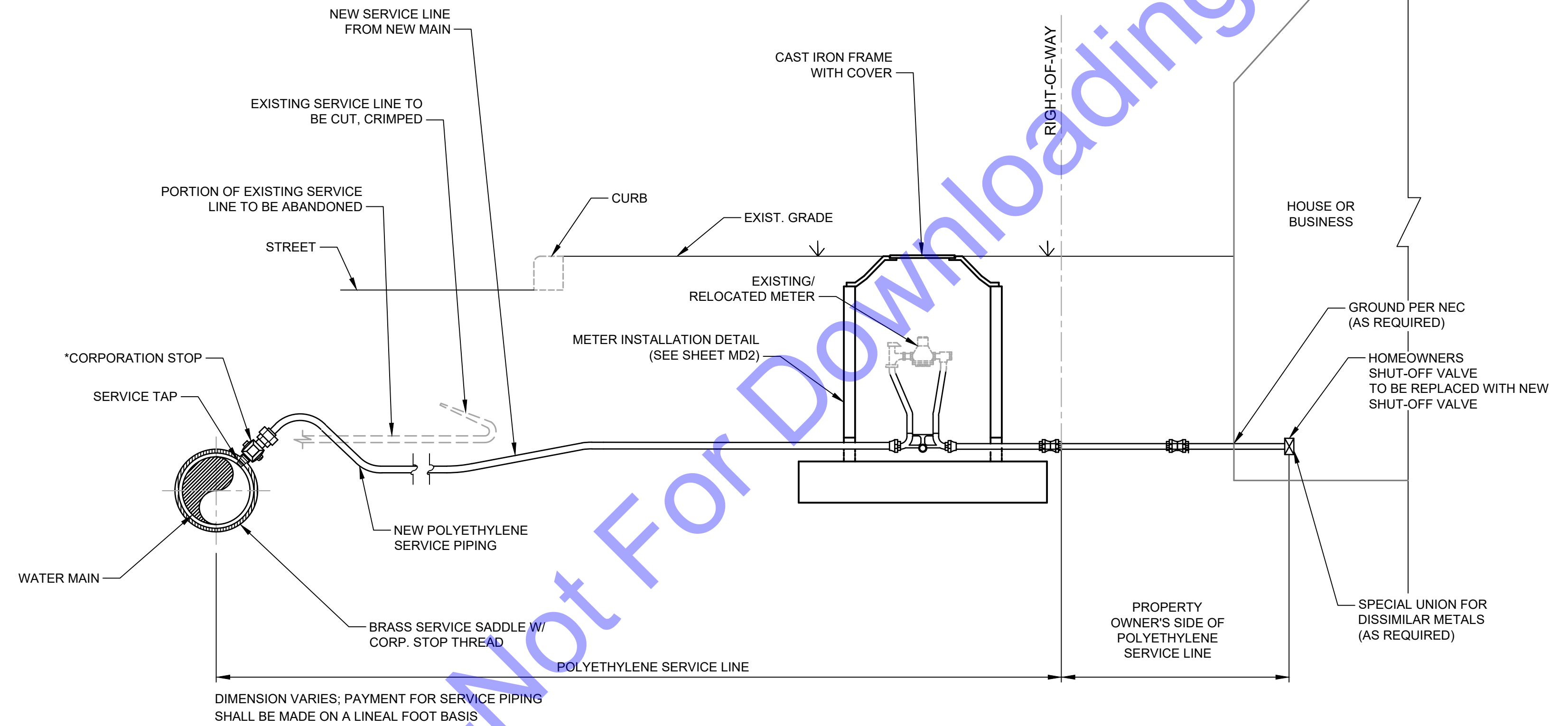
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



TYPICAL CONCRETE CURB AND GUTTER DETAIL
NOT TO SCALE

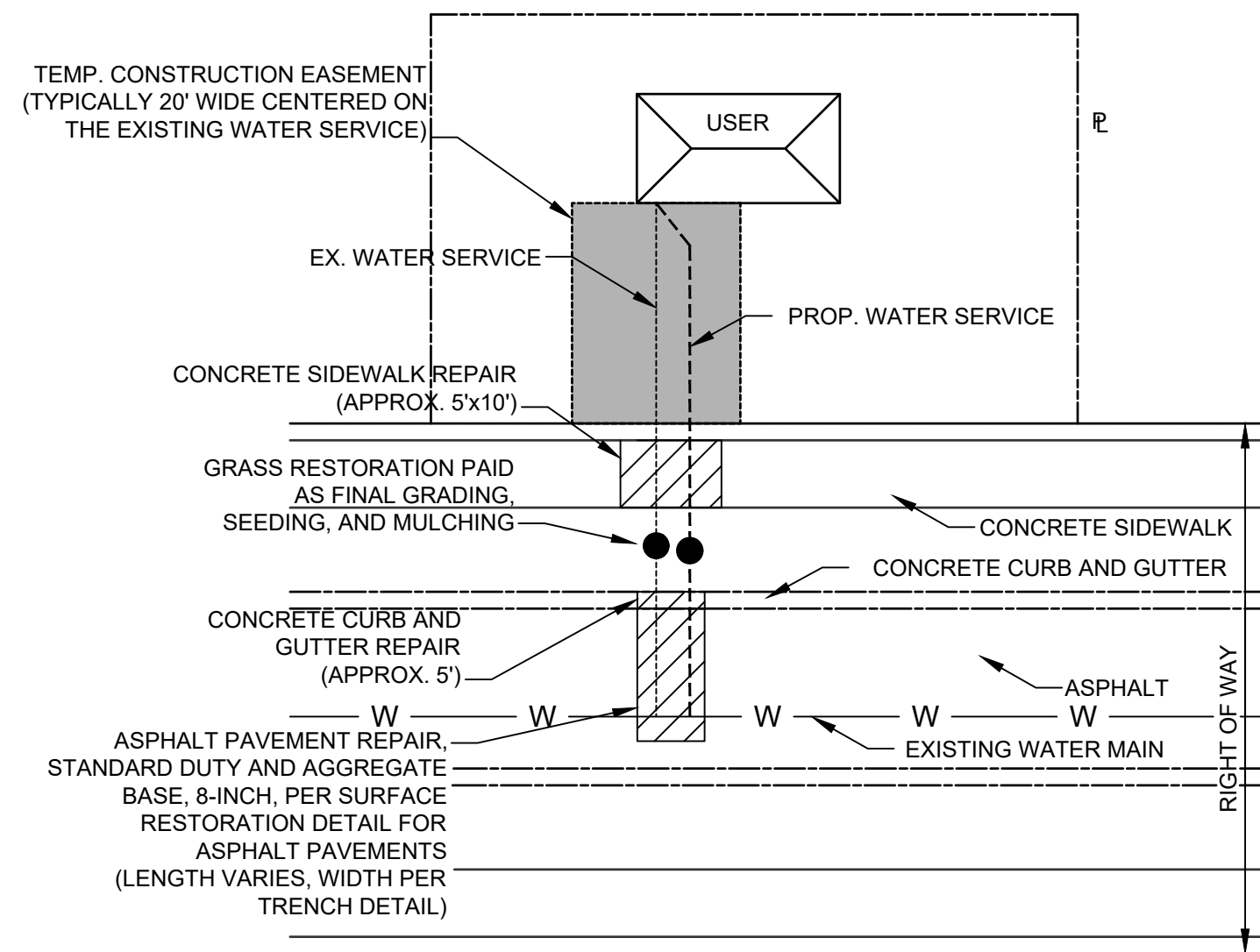


TYPICAL CONCRETE DEPRESSED CURB AND GUTTER DETAIL
NOT TO SCALE



- GENERAL NOTES:**
1. CORPORATION STOP SHALL BE FORD.
 2. NEW METER PIT SHALL HAVE ANGLE SHUT OFF ON TOWN SIDE OF PIT.
 3. ALL ABANDONED CORP. STOPS SHALL BE PLUGGED.

TYPICAL SERVICE TAP, SERVICE LINE AND RECONNECTION DETAIL
NOT TO SCALE



NOTES
PAYMENT FOR RESTORATION ITEMS OUTSIDE OF THE RIGHT OF WAY TO BE INCLUDED IN THE COST OF THE WATER SERVICE AS DETAILED IN THE SPECIFICATIONS. THIS INCLUDES RESTORATION FOR ALL ITEMS INCLUDING HARD SURFACES, GRASS AREAS, LANDSCAPING, ETC.

TYPICAL WATER SERVICE REPLACEMENT PAY ITEM DETAIL
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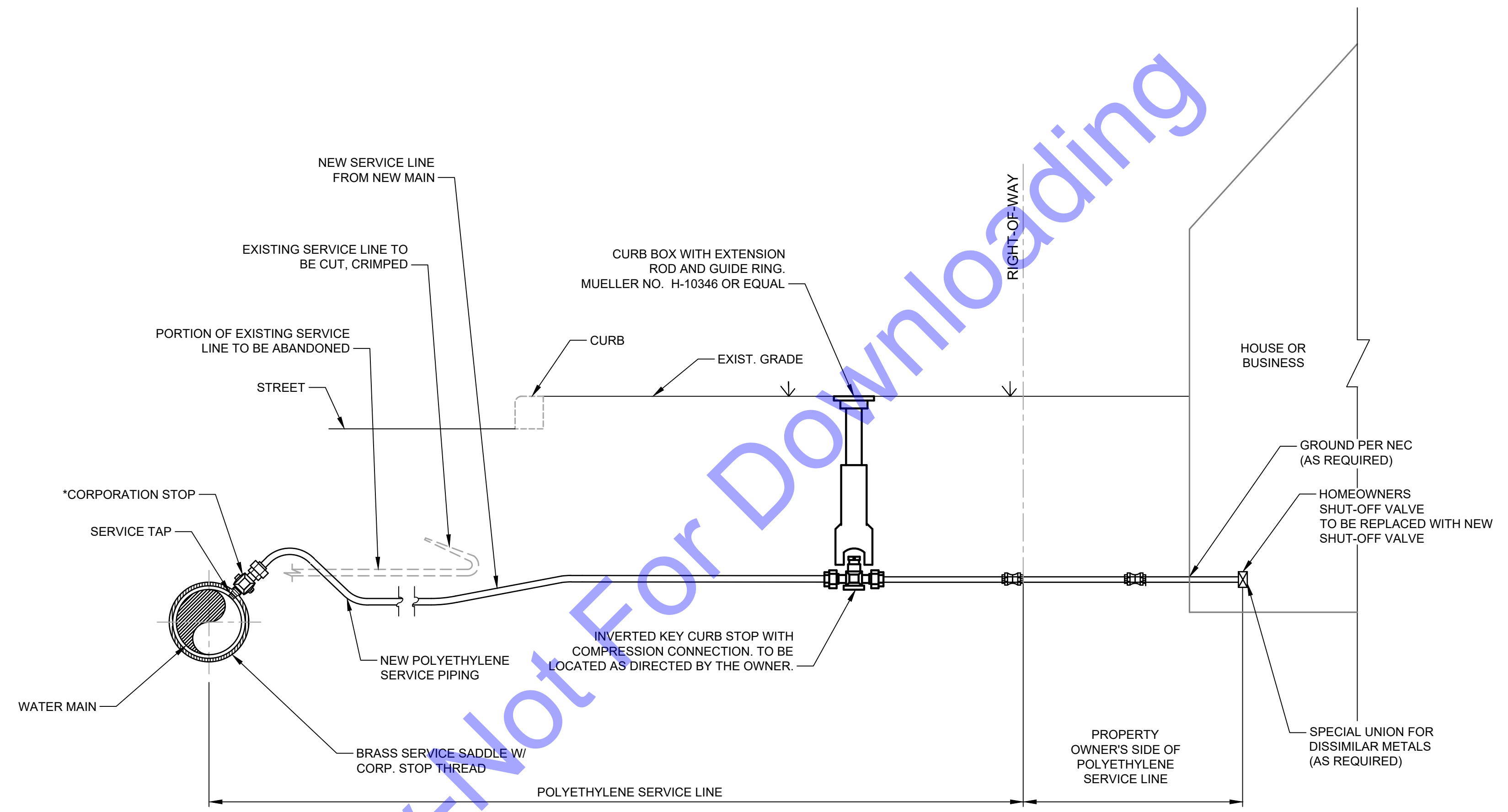
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Sheet: 48 OF 49

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DIMENSION VARIES; PAYMENT FOR SERVICE PIPING SHALL BE MADE ON A LINEAL FOOT BASIS

GENERAL NOTES:

- CORPORATION STOP SHALL BE FORD.
- NEW METER PIT SHALL HAVE ANGLE SHUT OFF ON TOWN SIDE OF PIT.
- ALL ABANDONED CORP. STOPS SHALL BE PLUGGED.

TYPICAL SERVICE TAP, SERVICE LINE AND CURB STOP RECONNECTION DETAIL

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[Signature]
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MISCELLANEOUS DETAILS