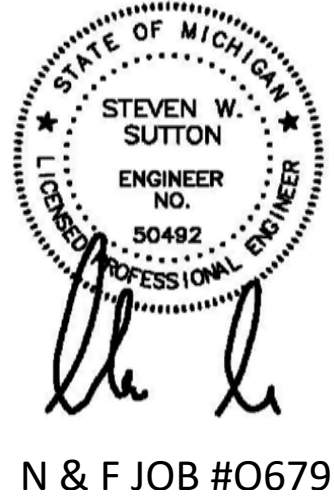
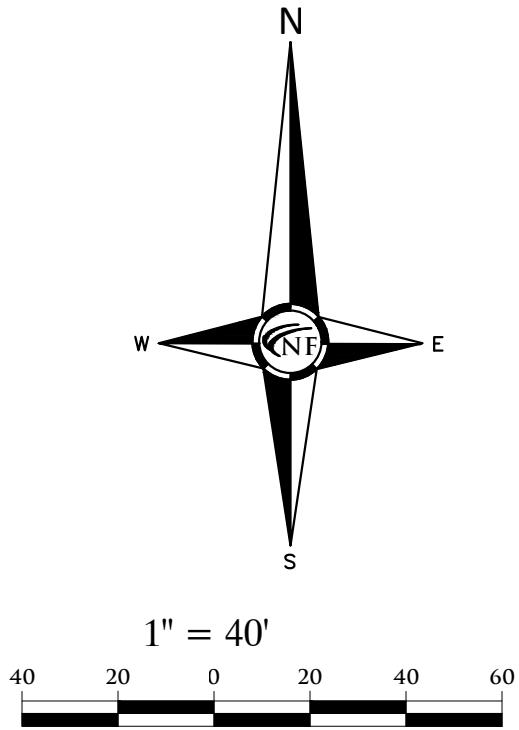
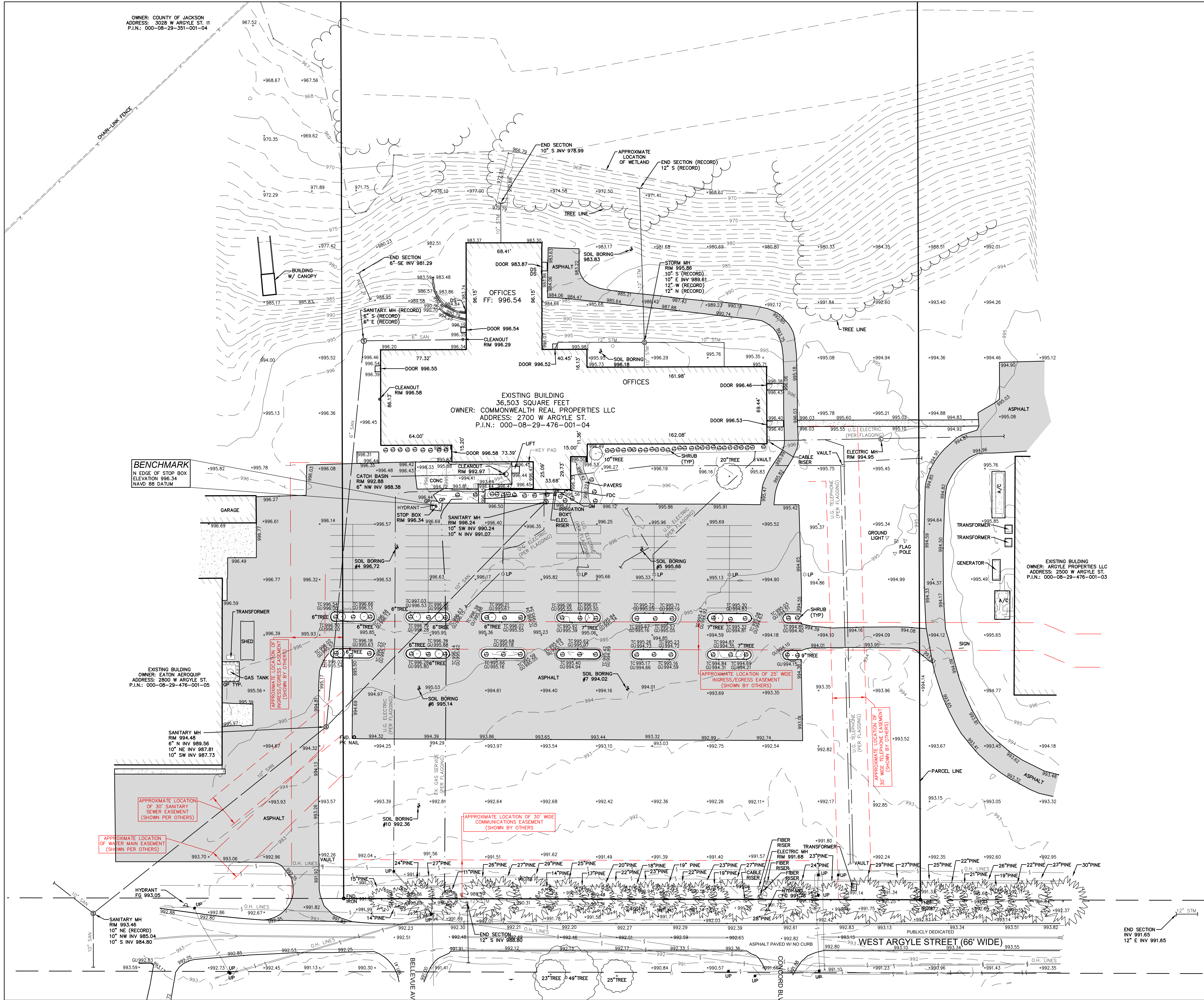




**DTE DISCLAIMER NOTE**  
PLEASE NOTE THAT DTE HAS NEW REGULATIONS THAT MAY IMPACT DEVELOPMENT OUTSIDE THEIR EASEMENT OR THE PUBLIC RIGHT OF WAY. CLIENT SHALL CONTACT DTE TO DETERMINE THE "NEW STRUCTURES AND POWER LINE" REQUIREMENTS AS THEY MAY APPLY TO ANY FUTURE BUILDING OR RENOVATION OF A STRUCTURE. DTE ENERGY CAN BE CONTACTED AT 800-477-4747

**FLOOD HAZARD NOTE**  
THIS PROPERTY IS NOT LOCATED WITHIN THE FLOOD HAZARD AREA INDICATED BY FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 26075C0190D DATED: 05-03-2010

**MISS DIG / UTILITY DISCLAIMER NOTE**  
A MISS DIG TICKET NUMBER 2025022501804-000, PURSUANT TO MICHIGAN PUBLIC ACT 174 WAS ENTERED FOR THE SURVEYED PROPERTY DUE TO THE EXTENDED REPORTING PERIOD FOR UNDERGROUND FACILITY OWNERS TO PROVIDE THEIR RECORDS. THE SURVEY MAY NOT REFLECT ALL THE UTILITIES AT THE TIME THE SURVEY WAS ISSUED ON 04-02-2025. THE SURVEY ONLY REFLECTS THOSE UTILITIES WHICH COULD BE OBSERVED BY THE SURVEYOR IN THE FIELD OR AS DEPICTED BY THE UTILITY COMPANY RECORDS FURNISH PRIOR TO THE DATE THIS SURVEY WAS ISSUED. THE CLIENT AND/OR THEIR AUTHORIZED AGENT SHALL VERIFY WITH THE FACILITY OWNERS AND/OR THEIR AUTHORIZED AGENTS, THE COMPLETENESS AND EXACTNESS OF THE UTILITIES LOCATED.

**TOPOGRAPHIC SURVEY NOTES**  
ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.  
UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.  
THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

| LEGEND |                         |
|--------|-------------------------|
|        | EXISTING SANITARY SEWER |
|        | EXISTING SAN. CLEAN OUT |
|        | EXISTING WATER MAIN     |
|        | EXISTING STORM SEWER    |
|        | EX. R.Y. CATCH BASIN    |
|        | EXISTING BURIED CABLES  |
|        | OVERHEAD LINES          |
|        | LIGHT POLE              |
|        | SIGN                    |
|        | EXISTING GAS MAIN       |

CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS  
46777 WOODWARD AVENUE  
FONTAINE, MI 48134  
TEL: (248) 332-7931  
FAX: (248) 332-8257  
**ENGINEERS**

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

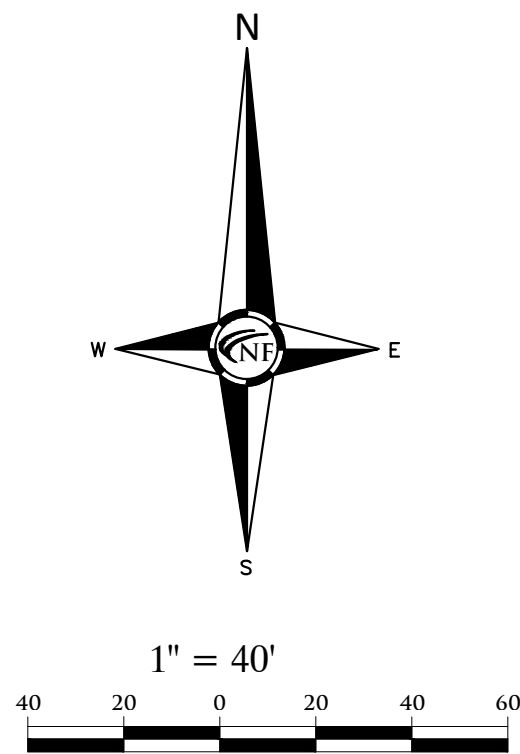
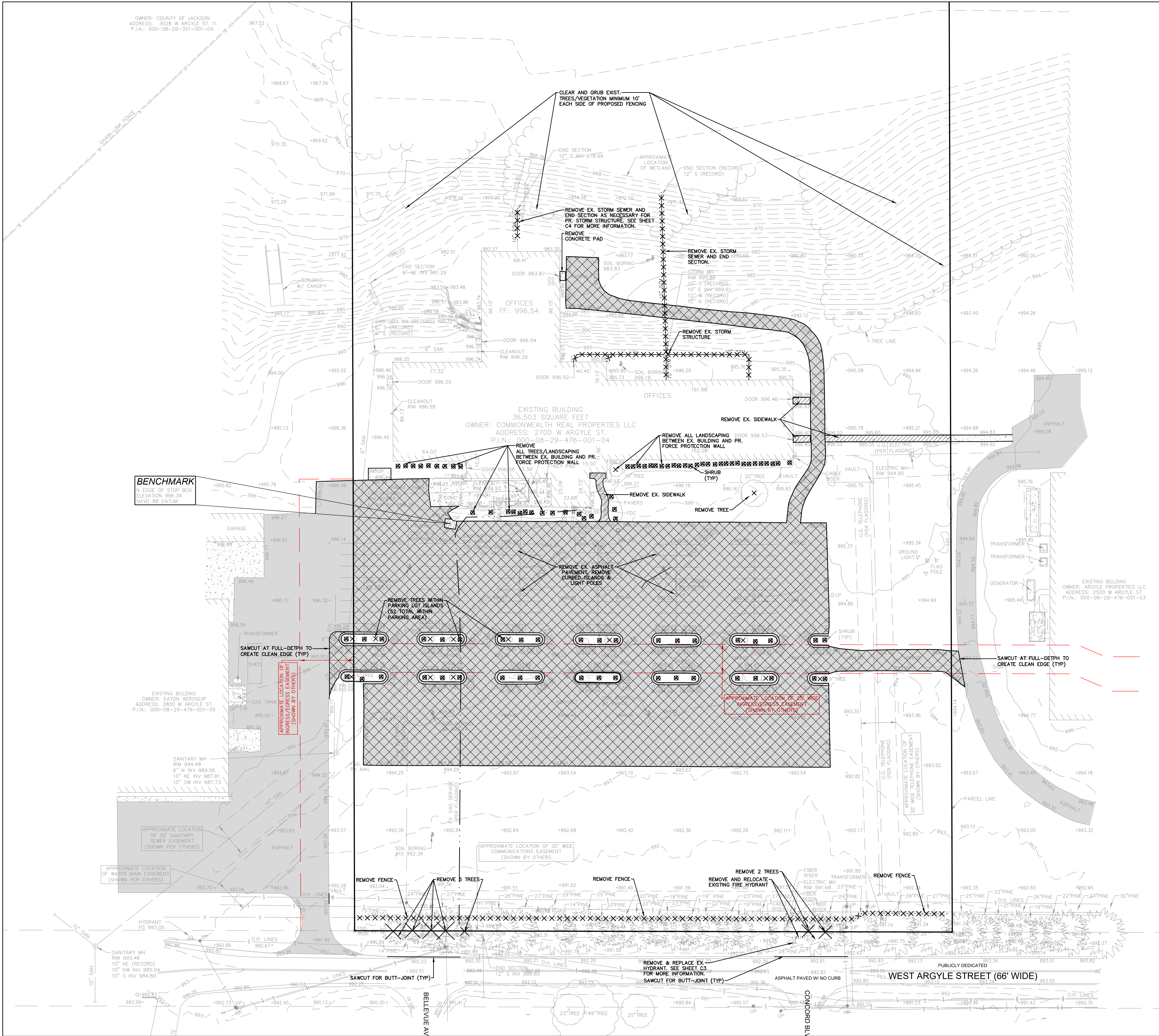
| DATE       | REVIEW           |
|------------|------------------|
| 2025-01-15 | Bld Documents    |
| 2025-10-01 | Site Plan (100%) |
| 2025-09-22 | Site Plan (90%)  |
| 2025-08-01 | Site Plan (60%)  |

PROJECT DESCRIPTION  
**RENOVATE ARMORY**  
**JACKSON (WEST) ARMORY DEVELOPMENT**  
2700 W Argyle Street, Jackson, MI 48202

TOPOGRAPHICAL SURVEY

|                |          |
|----------------|----------|
| DMA PROJECT #  | 51125059 |
| DTMB PROJECT # | 154001   |
| ARCH PROJECT # | OT       |
| DRAWN BY       | JC       |
| DESIGNED BY    | SS       |

C1



CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS  
46777 WOODWARD AVENUE  
FONTANA, CA 92335  
TEL: (949) 332-7931  
FAX: (949) 332-8257  
NF  
ENGINEERS

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

| 2025-01-15 | Bld Documents    | Review |
|------------|------------------|--------|
| 2025-10-01 | Site Plan (100%) |        |
| 2025-09-22 | Site Plan (90%)  |        |
| 2025-08-01 | Site Plan (60%)  |        |
| DATE       |                  |        |

PROJECT DESCRIPTION  
RENOVATE ARMORY  
JACKSON (WEST) ARMORY DEVELOPMENT  
2700 W Argyle Street, Jackson, MI 49202

DEMOLITION PLAN

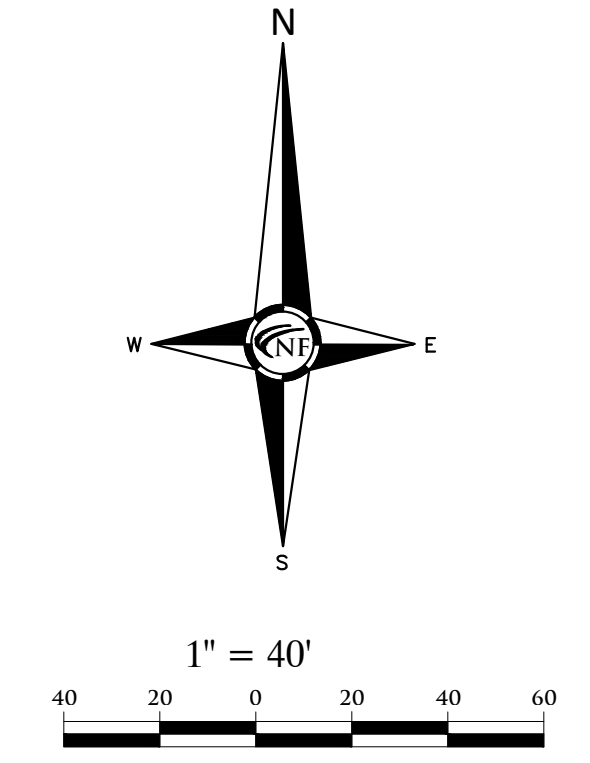
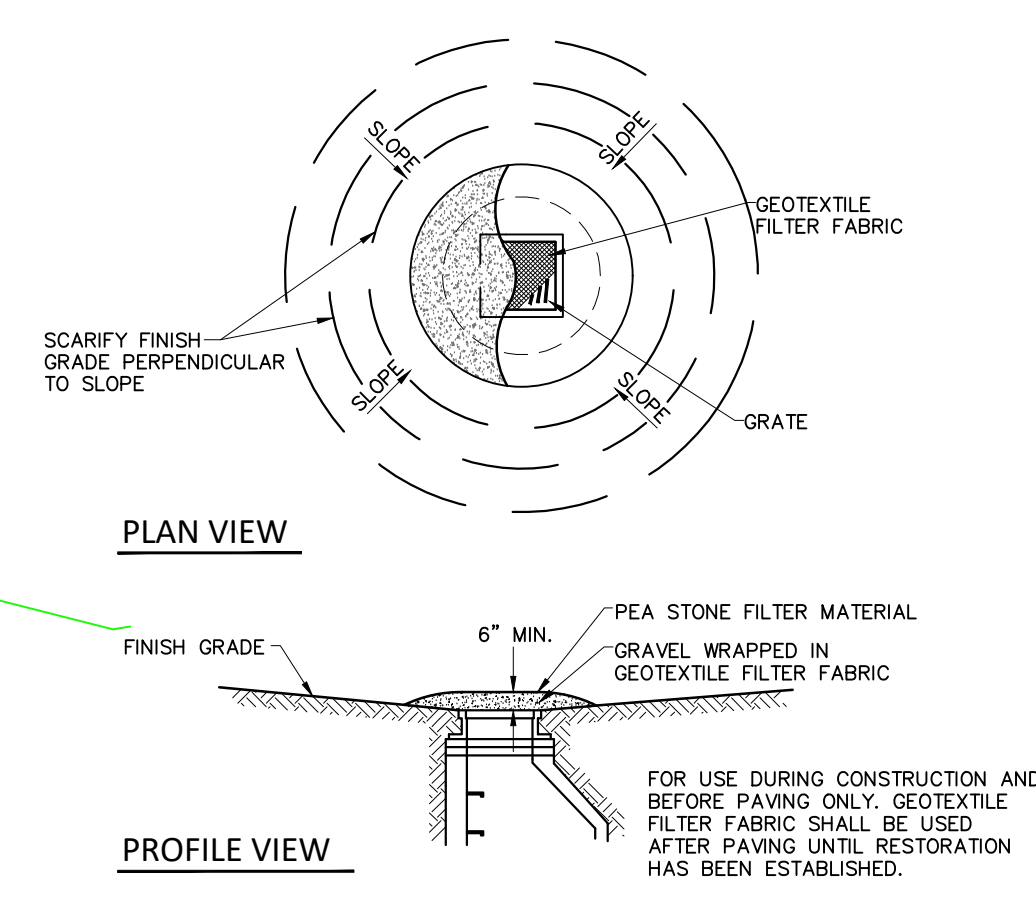
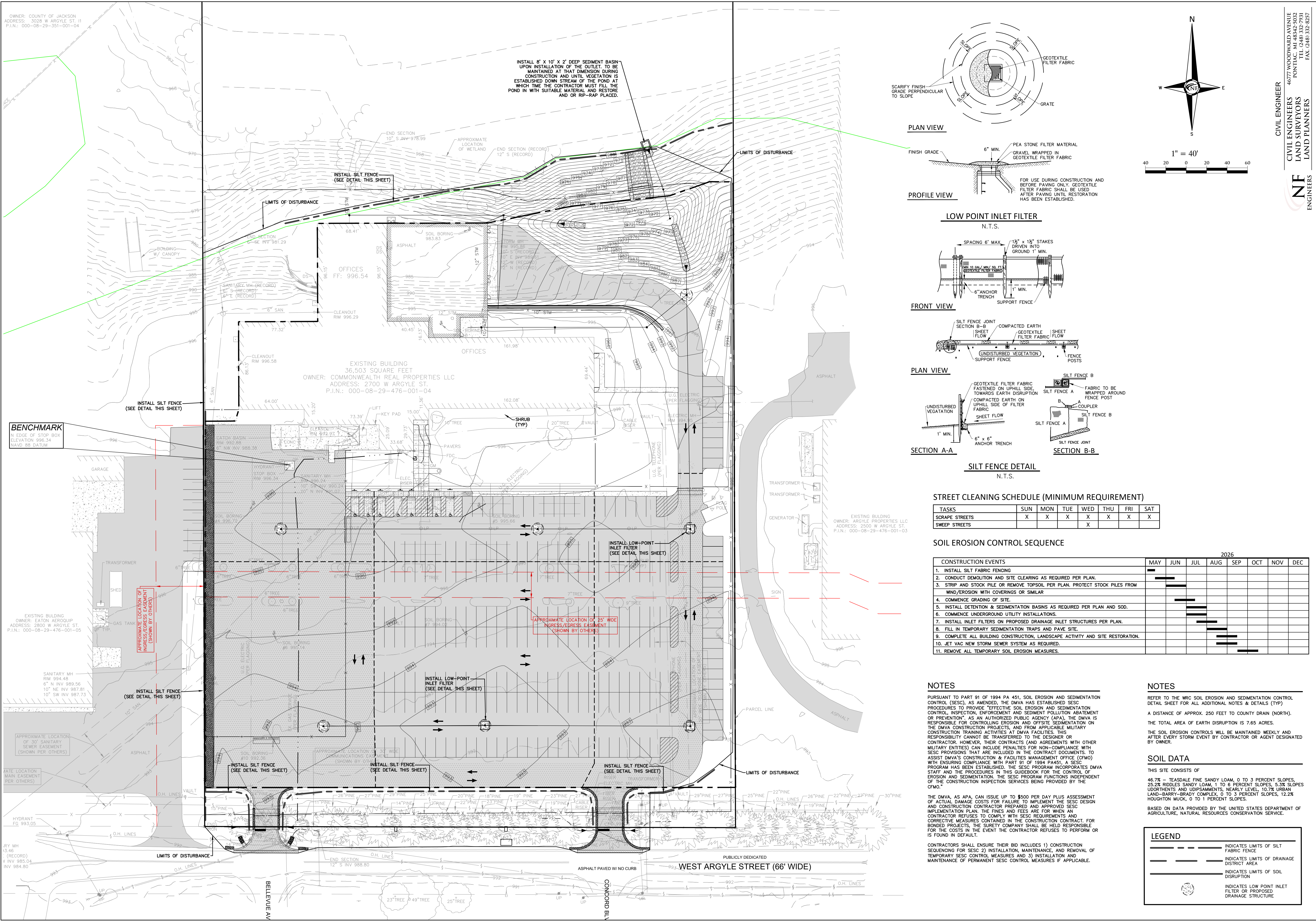
| DMA PROJECT #  | 15125059 | ED | MS |
|----------------|----------|----|----|
| DTMB PROJECT # | 154001   |    |    |
| ARCH PROJECT # | 154001   |    |    |
| DRAWN BY       | JC       |    |    |
| DESIGNED BY    | JC       |    |    |

C2

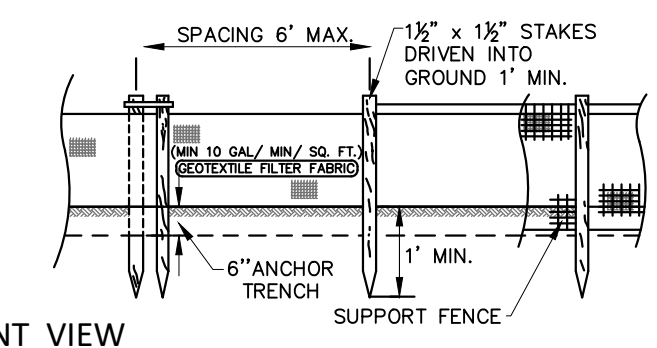
CLEARING LIMITS  
THE CONTRACTOR SHALL ANTICIPATE CLEARING AND GRUBBING TO INCLUDE AT A MINIMUM, TO A DISTANCE OF 82' AROUND THE PERIMETER OF THE NEW/EXISTING BUILDINGS FOR PROPOSED SITE AND BUILDING IMPROVEMENTS.

| REMOVAL LEGEND |                                                              |
|----------------|--------------------------------------------------------------|
|                | INDICATES AREAS OF ASPHALT PAVEMENT TO BE REMOVED            |
|                | INDICATES AREAS OF CONCRETE PAVEMENT/ SIDEWALK TO BE REMOVED |

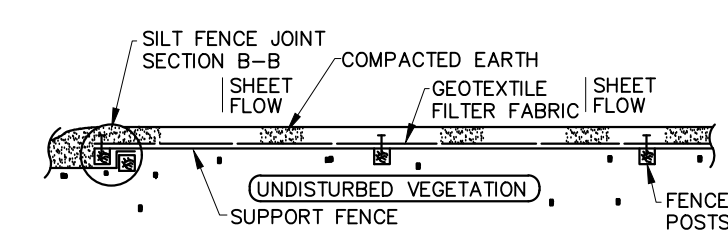
| LEGEND |                                       |
|--------|---------------------------------------|
|        | MANHOLE                               |
|        | HYDRANT                               |
|        | MANHOLE                               |
|        | UTILITY POLE                          |
|        | GUY POLE                              |
|        | GUY WIRE                              |
|        | EXISTING SANITARY SEWER               |
|        | EXISTING SAN. CLEAN OUT               |
|        | EXISTING WATER MAIN                   |
|        | EXISTING STORM SEWER                  |
|        | EX. R. Y. CATCH BASIN                 |
|        | EXISTING BURIED CABLES                |
|        | OVERHEAD LINES                        |
|        | LIGHT POLE                            |
|        | SIGN                                  |
|        | EXISTING GAS MAIN                     |
|        | EXISTING UTILITY TO BE REMOVED        |
|        | EXISTING UTILITY TO BE ABANDONED      |
|        | CONSTRUCTION/TREE PROTECTION FENCING  |
|        | INDICATES EXISTING TREE TO BE REMOVED |



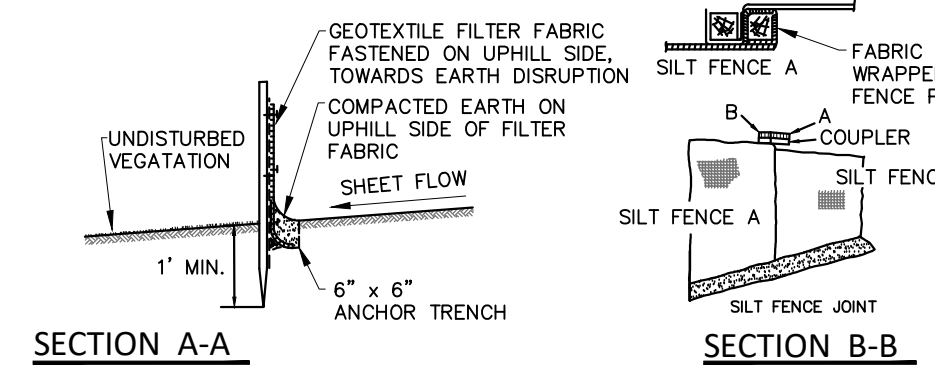
LOW POINT INLET FILTER  
N.T.S.



FRONT VIEW



PLAN VIEW



SECTION A-A

SECTION B-B

SILT FENCE DETAIL  
N.T.S.

STREET CLEANING SCHEDULE (MINIMUM REQUIREMENT)

| TASKS          | SUN | MON | TUE | WED | THU | FRI | SAT |
|----------------|-----|-----|-----|-----|-----|-----|-----|
| SCRAPE STREETS | X   | X   | X   | X   | X   | X   | X   |
| SWEEP STREETS  |     |     |     | X   |     |     |     |

SOIL EROSION CONTROL SEQUENCE

| CONSTRUCTION EVENTS                                                                                                 | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1. INSTALL SILT FABRIC FENCING                                                                                      |     |     |     |     |     |     |     |     |
| 2. CONDUCT DEMOLITION AND SITE CLEARING AS REQUIRED PER PLAN.                                                       |     |     |     |     |     |     |     |     |
| 3. STRIP AND STOCK PILE OR REMOVE TOPSOIL PER PLAN. PROTECT STOCK PILES FROM WIND/EROSION WITH COVERINGS OR SIMILAR |     |     |     |     |     |     |     |     |
| 4. COMMENCE GRADING OF SITE.                                                                                        |     |     |     |     |     |     |     |     |
| 5. INSTALL DETENTION & SEDIMENTATION BASINS AS REQUIRED PER PLAN AND SOD.                                           |     |     |     |     |     |     |     |     |
| 6. COMMENCE UNDERGROUND UTILITY INSTALLATIONS.                                                                      |     |     |     |     |     |     |     |     |
| 7. INSTALL INLET FILTERS ON PROPOSED DRAINAGE INLET STRUCTURES PER PLAN.                                            |     |     |     |     |     |     |     |     |
| 8. FILL IN TEMPORARY SEDIMENTATION TRAPS AND PAVE SITE.                                                             |     |     |     |     |     |     |     |     |
| 9. COMPLETE ALL BUILDING CONSTRUCTION, LANDSCAPE ACTIVITY AND SITE RESTORATION.                                     |     |     |     |     |     |     |     |     |
| 10. JET VAC NEW STORM SEWER SYSTEM AS REQUIRED.                                                                     |     |     |     |     |     |     |     |     |
| 11. REMOVE ALL TEMPORARY SOIL EROSION MEASURES.                                                                     |     |     |     |     |     |     |     |     |

NOTES

PURSUANT TO PART 91 OF 1994 PA 451, SOIL EROSION AND SEDIMENTATION CONTROL (SESC), AS AMENDED, THE DMVA HAS ESTABLISHED SESC PROCEDURES TO PROVIDE "EFFECTIVE SOIL EROSION AND SEDIMENTATION CONTROL, INSPECTION, ENFORCEMENT AND SEDIMENT POLLUTION ABATEMENT OR PREVENTION". AS AN AUTHORIZED PUBLIC AGENCY (APA), THE DMVA IS RESPONSIBLE FOR CONTROLLING EROSION AND OFFSITE SEDIMENTATION ON THE DMVA CONSTRUCTION PROJECTS, AND FROM APPLICABLE MILITARY CONSTRUCTION TRAINING ACTIVITIES AT DMVA FACILITIES. THIS RESPONSIBILITY CANNOT BE TRANSFERRED TO THE DESIGNER OR CONTRACTOR, HOWEVER, THEIR CONTRACTS (AND AGREEMENTS WITH OTHER MILITARY ENTITIES) CAN INCLUDE PENALTIES FOR NON-COMPLIANCE WITH SESC PROVISIONS THAT ARE INCLUDED IN THE CONTRACT DOCUMENTS. TO ASSIST DMVA'S CONSTRUCTION & FACILITIES MANAGEMENT OFFICE (CFMO) WITH ENSURING COMPLIANCE WITH PART 91 OF 1994 PA451, A SESC PROGRAM HAS BEEN ESTABLISHED. THE SESC PROGRAM INCORPORATES DMVA STAFF AND THE PROCEDURES IN THIS GUIDEBOOK FOR THE CONTROL OF EROSION AND SEDIMENTATION. THE SESC PROGRAM FUNCTIONS INDEPENDENT OF THE CONSTRUCTION INSPECTION SERVICES BEING PROVIDED BY THE CFMO.

THE DMVA, AS APA, CAN ISSUE UP TO \$500 PER DAY PLUS ASSESSMENT OF ACTUAL DAMAGE COSTS FOR FAILURE TO IMPLEMENT THE SESC DESIGN AND CONSTRUCTION CONTRACTOR PREPARED AND APPROVED SESC IMPLEMENTATION PLAN. THE FINES AND FEES ARE FOR WHEN AN CONTRACTOR REFUSES TO COMPLY WITH SESC REQUIREMENTS AND CORRECTIVE MEASURES CONTAINED IN THE CONSTRUCTION CONTRACT. FOR BONDED PROJECTS, THE SURETY COMPANY SHALL BE HELD RESPONSIBLE FOR THE COSTS IN THE EVENT THE CONTRACTOR REFUSES TO PERFORM OR IS FOUND IN DEFAULT.

CONTRACTORS SHALL ENSURE THEIR BID INCLUDES 1) CONSTRUCTION SCHEDULING FOR SESC 2) INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY SESC CONTROL MEASURES AND 3) INSTALLATION AND MAINTENANCE OF PERMANENT SESC CONTROL MEASURES IF APPLICABLE.

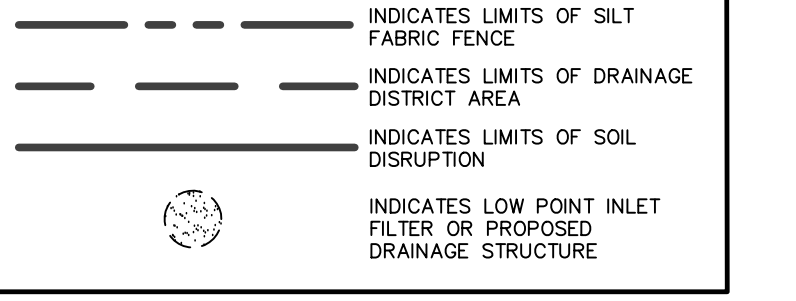
NOTES

REFER TO THE WRC SOIL EROSION AND SEDIMENTATION CONTROL DETAIL SHEET FOR ALL ADDITIONAL NOTES & DETAILS (TYP)  
A DISTANCE OF APPROX. 250 FEET TO COUNTY DRAIN (NORTH).  
THE TOTAL AREA OF EARTH DISRUPTION IS 7.65 ACRES.  
THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY CONTRACTOR OR AGENT DESIGNATED BY OWNER.

SOIL DATA

THIS SITE CONSISTS OF  
46.7% - TEASDALE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES.  
25.2% RIDGELAND SANDY LOAM, 1 TO 6 PERCENT SLOPES, 5.3% SLOPES  
UDORHENTS AND UDIPSAMMENTS, NEARLY LEVEL, 10.7% URBAN  
LAND-BARRY-BRADY COMPLEX, 0 TO 3 PERCENT SLOPES, 12.2%  
HOUGHTON MUCK, 0 TO 1 PERCENT SLOPES.  
BASED ON DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.

LEGEND



CIVIL ENGINEER

CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS



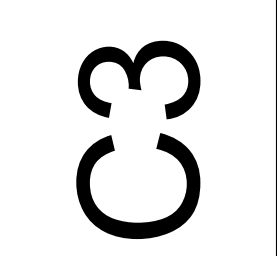
STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

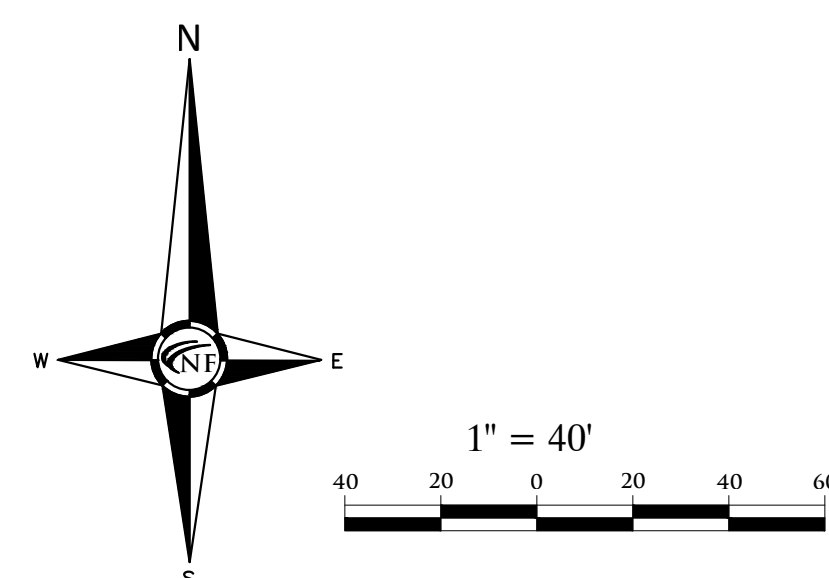
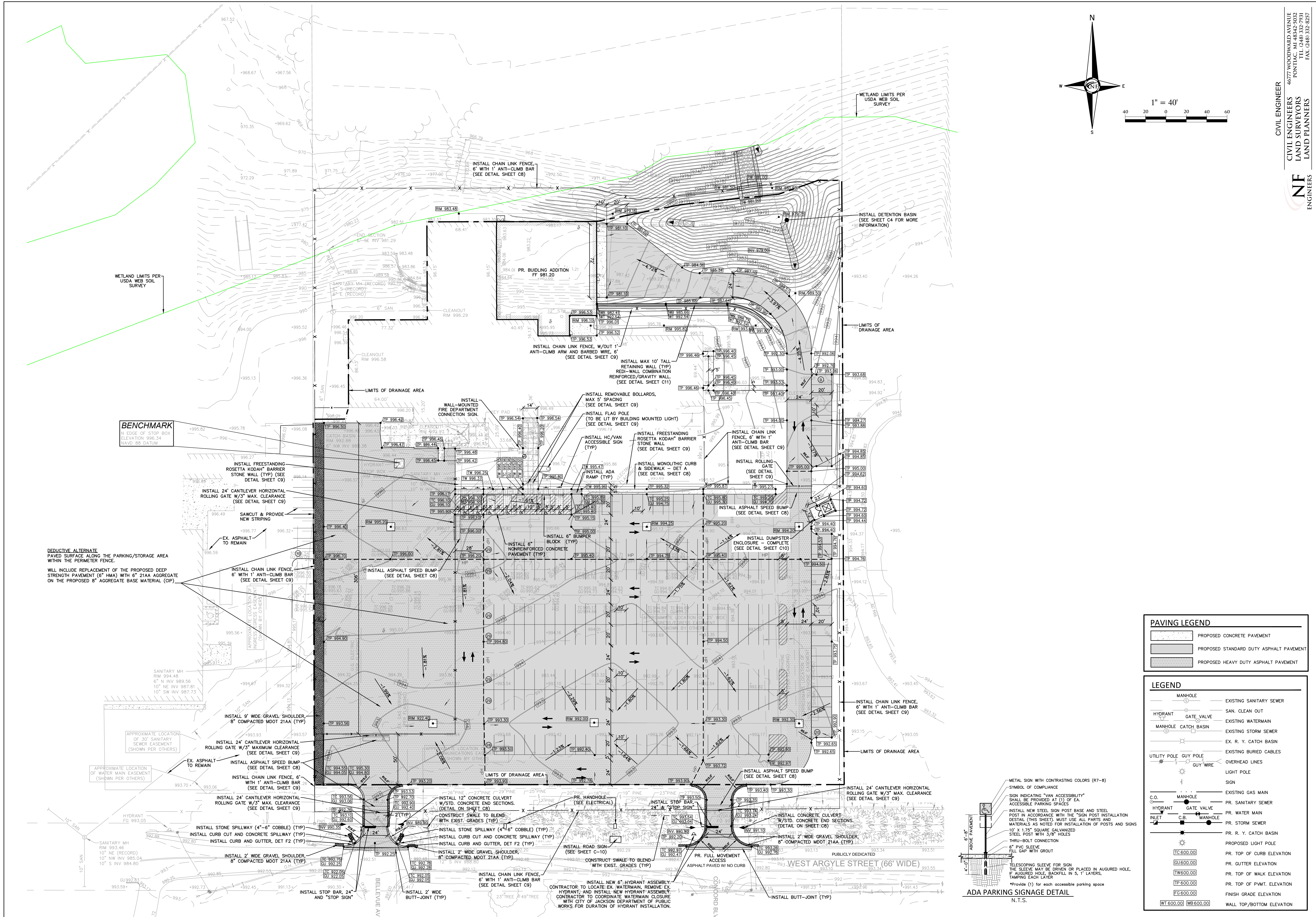
| DATE       | REVIEW           |
|------------|------------------|
| 2025-01-15 | Bld Documents    |
| 2025-10-01 | Site Plan (100%) |
| 2025-09-22 | Site Plan (90%)  |
| 2025-08-01 | Site Plan (60%)  |

PROJECT DESCRIPTION  
**RENOVATE ARMORY**  
**JACKSON (WEST) ARMORY DEVELOPMENT**  
2700 W Argyle Street, Jackson, MI 48202

SOIL EROSION & SEDIMENTATION CONTROL PLAN

|                |           |
|----------------|-----------|
| DMVA PROJECT # | 511250509 |
| DTMB PROJECT # | 154001    |
| ARCH PROJECT # | 154001    |
| DRAWN BY       | EO        |
| DESIGNED BY    | MW        |
| JCE/ENG BY     | SS        |



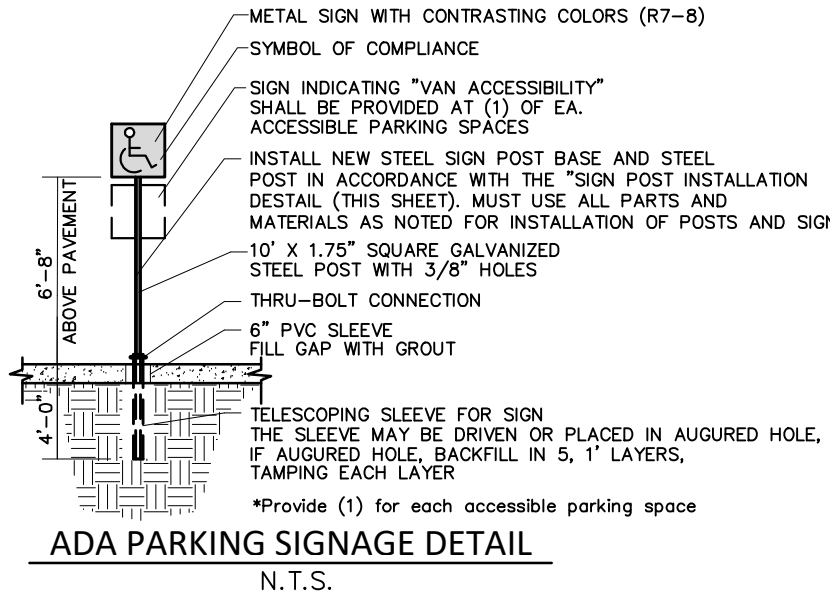


**PAVING LEGEND**

|           |                                         |
|-----------|-----------------------------------------|
| [Pattern] | PROPOSED CONCRETE PAVEMENT              |
| [Pattern] | PROPOSED STANDARD DUTY ASPHALT PAVEMENT |
| [Pattern] | PROPOSED HEAVY DUTY ASPHALT PAVEMENT    |

**LEGEND**

|          |                     |          |                             |
|----------|---------------------|----------|-----------------------------|
| [Symbol] | MANHOLE             | [Symbol] | EXISTING SANITARY SEWER     |
| [Symbol] | HYDRANT             | [Symbol] | SAN. CLEAN OUT              |
| [Symbol] | MANHOLE CATCH BASIN | [Symbol] | EXISTING WATERMAIN          |
| [Symbol] | UTILITY POLE        | [Symbol] | EXISTING STORM SEWER        |
| [Symbol] | GUY POLE            | [Symbol] | EX. R. Y. CATCH BASIN       |
| [Symbol] | GUY WIRE            | [Symbol] | EXISTING BURIED CABLES      |
| [Symbol] |                     | [Symbol] | OVERHEAD LINES              |
| [Symbol] |                     | [Symbol] | LIGHT POLE                  |
| [Symbol] |                     | [Symbol] | SIGN                        |
| [Symbol] |                     | [Symbol] | EXISTING GAS MAIN           |
| [Symbol] |                     | [Symbol] | PR. SANITARY SEWER          |
| [Symbol] |                     | [Symbol] | PR. WATER MAIN              |
| [Symbol] |                     | [Symbol] | PR. STORM SEWER             |
| [Symbol] |                     | [Symbol] | PR. R. Y. CATCH BASIN       |
| [Symbol] |                     | [Symbol] | PROPOSED LIGHT POLE         |
| [Symbol] |                     | [Symbol] | PR. TOP OF CURB ELEVATION   |
| [Symbol] |                     | [Symbol] | PR. GUTTER ELEVATION        |
| [Symbol] |                     | [Symbol] | PR. TOP OF F.W.M. ELEVATION |
| [Symbol] |                     | [Symbol] | PR. TOP OF P.W.M. ELEVATION |
| [Symbol] |                     | [Symbol] | FINISH GRADE ELEVATION      |
| [Symbol] |                     | [Symbol] | WALL TOP/BOTTOM ELEVATION   |



CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS

46777 WOODWARD AVENUE  
FONTANA, CA 92335  
TEL: (949) 332-7931  
FAX: (949) 332-8257

**ENGINEERS**

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

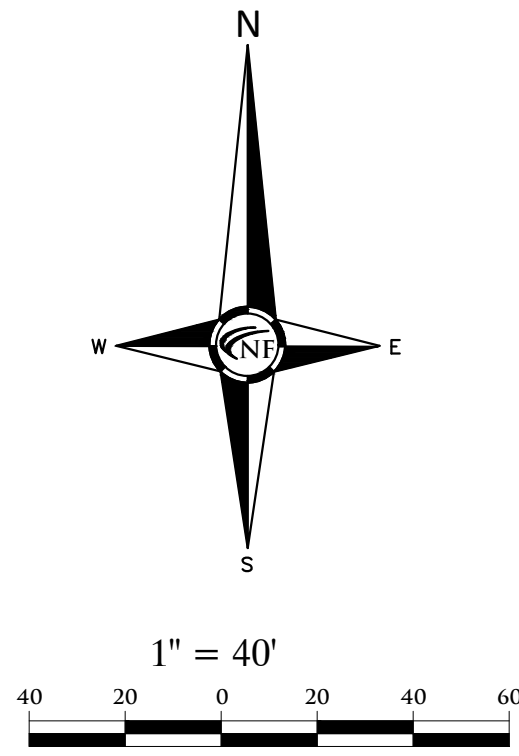
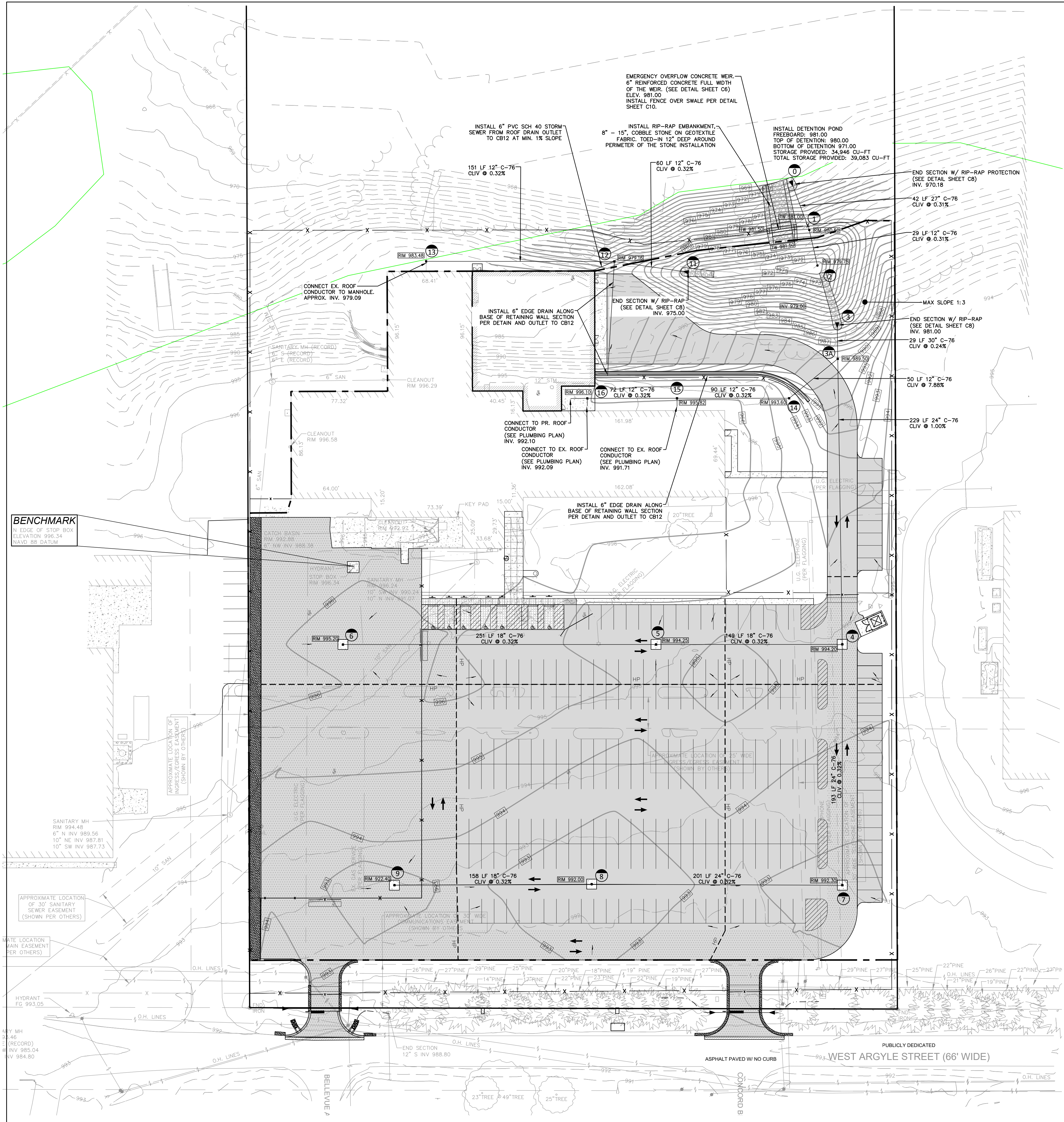
| DATE       | REVIEW           |
|------------|------------------|
| 2025-01-15 | Bld Documents    |
| 2025-10-01 | Site Plan (100%) |
| 2025-09-22 | Site Plan (90%)  |
| 2025-08-01 | Site Plan (60%)  |

PROJECT DESCRIPTION  
**RENOVATE ARMORY**  
**JACKSON (WEST) ARMORY DEVELOPMENT**  
2700 W Argyle Street, Jackson, MI 49202

IMPROVEMENTS PLAN

|                |           |
|----------------|-----------|
| DMA PROJECT #  | 51126509  |
| DTMB PROJECT # | 154001    |
| ARCH PROJECT # |           |
| DRAWN BY       | EO        |
| DESIGNED BY    | MW        |
|                | JC/ENG BY |

**C4**



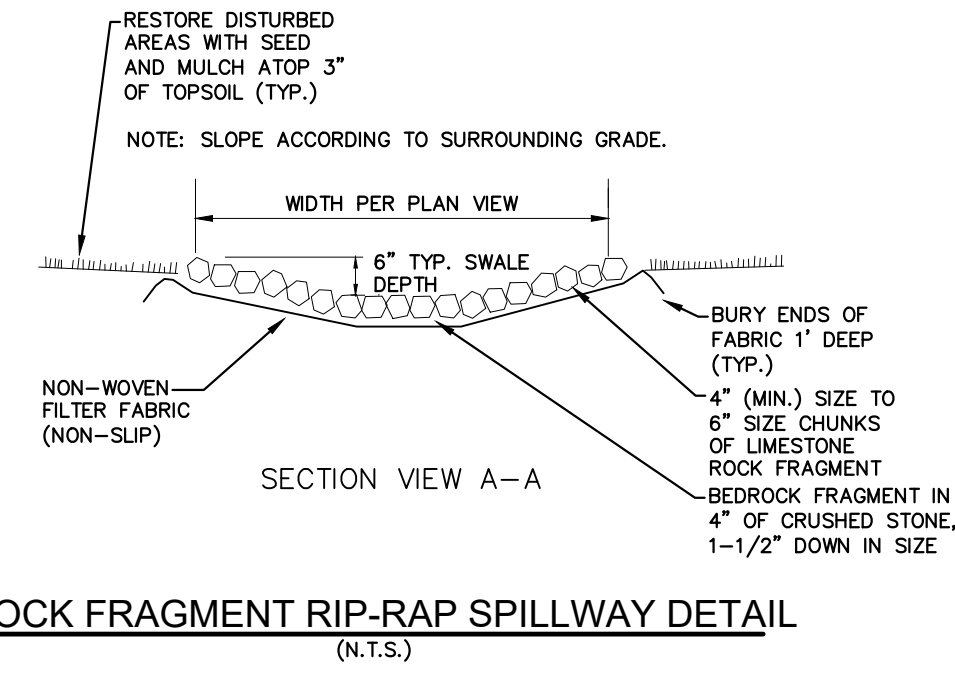
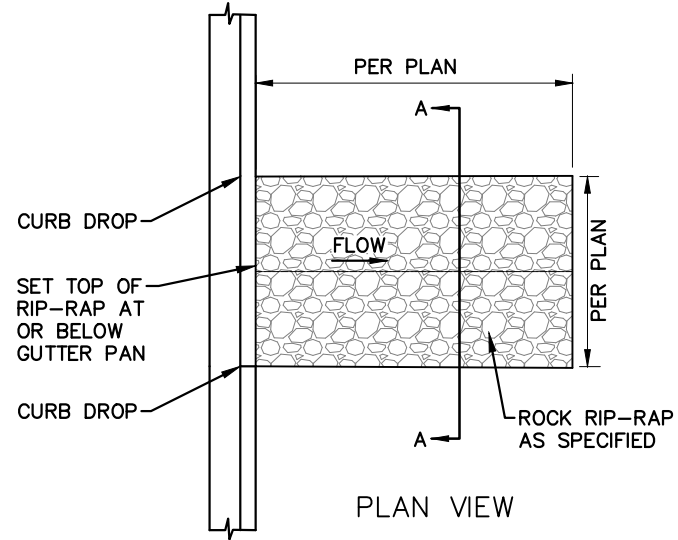
CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS

46777 WOODWARD AVENUE  
FONTANA, CA 92335  
TEL: (949) 332-7931  
FAX: (949) 332-8257

ENGINEERS

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

| Storm Drainage Structure Schedule                                          |                                                                                                                       |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Structure Name                                                             | Structure Details                                                                                                     |
| #0<br>27" END SECTION                                                      | PR. 27" S. INV. 970.18                                                                                                |
| #1<br>OUTLET CONTROL STRUCTURE                                             | PR. RIM 980.50<br>PR. 12" S. INV. 970.41<br>PR. 27" N. INV. 970.31                                                    |
| #2<br>STANDPIPE                                                            | PR. RIM 979.75<br>PR. 12" N. INV. 970.50                                                                              |
| #3<br>12" END SECTION                                                      | PR. 30" S. INV. 981.00                                                                                                |
| #3A<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040 Frame &<br>Type N Grate Cover | PR. RIM 989.50<br>PR. 24" S. INV. 981.47<br>PR. 12" SW. INV. 983.04<br>PR. 30" N. INV. 981.07                         |
| #4<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040M1 GRATE                        | PR. RIM 994.20<br>PR. 24" S. INV. 984.16<br>PR. 18" W. INV. 986.66<br>PR. 24" N. INV. 983.76                          |
| #5<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040M1 GRATE                        | PR. RIM 994.25<br>PR. 18" W. INV. 987.14<br>PR. 18" E. INV. 987.14                                                    |
| #6<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040M1 GRATE                        | PR. RIM 995.10<br>PR. 18" E. INV. 987.95                                                                              |
| #7<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040M1 GRATE                        | PR. RIM 992.30<br>PR. 24" W. INV. 985.18<br>PR. 24" N. INV. 984.78                                                    |
| #8<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040M1 GRATE                        | PR. RIM 992.00<br>PR. 18" W. INV. 986.23<br>PR. 24" E. INV. 985.83                                                    |
| #9<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040M1 GRATE                        | PR. RIM 992.40<br>PR. 18" E. INV. 986.73                                                                              |
| #11<br>END SECTION                                                         | PR. 12" W. INV. 975.00                                                                                                |
| #12<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040 Frame &<br>Solid Cover        | PR. RIM 979.16<br>PR. 12" W. INV. 975.19<br>PR. 12" E. INV. 975.19<br>PR. 6" S. INV. 976.20<br>PR. 6" SW. INV. 976.20 |
| #13<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040 Frame &<br>Solid Cover        | PR. RIM 983.48<br>PR. 12" E. INV. 975.68<br>EX. 10" S. INV. 979.09                                                    |
| #14<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040 Frame &<br>SOLID COVER        | PR. RIM 993.61<br>PR. 12" W. INV. 988.60<br>PR. 12" NE. INV. 987.00                                                   |
| #15<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040 Frame &<br>SOLID COVER        | PR. RIM 995.83<br>PR. 12" W. INV. 988.99<br>PR. 12" E. INV. 988.89<br>EX. 10" S. INV. 991.71                          |
| #16<br>PR. 4' DIA. CATCH BASIN<br>W/ EJ 1040 Frame &<br>SOLID COVER        | PR. RIM 996.10<br>PR. 12" E. INV. 989.22<br>EX. 10" S. INV. 992.09<br>PR. 10" W. INV. 992.07                          |



| LEGEND       |                              |
|--------------|------------------------------|
| MANHOLE      | EXISTING SANITARY SEWER      |
| HYDRANT      | SAN. CLEAN OUT               |
| MANHOLE      | EXISTING WATER MAIN          |
| CATCH BASIN  | EXISTING STORM SEWER         |
|              | EX. R. Y. CATCH BASIN        |
| UTILITY POLE | EXISTING BURIED CABLES       |
| GUY POLE     | OVERHEAD LINES               |
| GUY WIRE     | LIGHT POLE                   |
|              | SIGN                         |
| C.O.         | EXISTING GAS MAIN            |
| MANHOLE      | PR. SANITARY SEWER           |
| HYDRANT      | PR. WATER MAIN               |
| INLET        | PR. STORM SEWER              |
| C.B.         | PR. R. Y. CATCH BASIN        |
| MANHOLE      | SAND BACKFILL (95 % DENSITY) |
|              | PROPOSED LIGHT POLE          |

PROJECT DESCRIPTION  
RENOVATE ARMORY  
JACKSON (WEST) ARMORY DEVELOPMENT  
2700 W Argyle Street, Jackson, MI 49202

STORMWATER MANAGEMENT PLAN

|                |          |
|----------------|----------|
| DMA PROJECT #  | 51125039 |
| DTMB PROJECT # | 154001   |
| ARCH PROJECT # | 154001   |
| DRAWN BY       | EO       |
| DESIGNED BY    | MW       |
| JICENG BY      | SS       |

C5

| LAND USE SUMMARY TABLE                                                                                                                                                                                                                                                                                                                                  |                     |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| Characteristic                                                                                                                                                                                                                                                                                                                                          | Existing Conditions | Proposed Conditions |
| Total Development Area (ac):                                                                                                                                                                                                                                                                                                                            | 6.39                | 6.39                |
| Impervious Area (ac):                                                                                                                                                                                                                                                                                                                                   | 3.05                | 4.86                |
| Pervious Area (ac):                                                                                                                                                                                                                                                                                                                                     | 3.34                | 1.38                |
| Water/Pond Area (ac):                                                                                                                                                                                                                                                                                                                                   | 0.00                | 0.15                |
| Pervious Area Breakdown by Cover Type                                                                                                                                                                                                                                                                                                                   |                     |                     |
| Meadow/fallow/natural areas (non-cultivated) (ac):                                                                                                                                                                                                                                                                                                      | 0.00                | 0.00                |
| Predominant NRCS Soil Type                                                                                                                                                                                                                                                                                                                              | D                   | D                   |
| Improved areas (turf grass, landscape, row crops) (ac):                                                                                                                                                                                                                                                                                                 | 3.34                | 1.38                |
| Predominant NRCS Soil Type                                                                                                                                                                                                                                                                                                                              | D                   | D                   |
| Wooded Areas (ac):                                                                                                                                                                                                                                                                                                                                      |                     |                     |
| Predominant NRCS Soil Type                                                                                                                                                                                                                                                                                                                              | D                   | 0.00                |
| Required CPVC Volume (cft):                                                                                                                                                                                                                                                                                                                             |                     |                     |
| Provided CPVC Volume (cft):                                                                                                                                                                                                                                                                                                                             |                     | 25,753              |
| Required Extended Detention Volume (cft):                                                                                                                                                                                                                                                                                                               |                     |                     |
| Provided Extended Volume Provided (cft):                                                                                                                                                                                                                                                                                                                |                     | 0                   |
| Required Extended Detention Volume (cft):                                                                                                                                                                                                                                                                                                               |                     |                     |
| Provided Extended Volume Provided (cft):                                                                                                                                                                                                                                                                                                                |                     | 37,639              |
| The professional engineer who signs and seals this site plan certifies that the values in this table reflect the WRC stormwater calculations required for this development and that geotechnical investigations were performed that provide conclusive documentation that demonstrates whether infiltration (i.e., CPVC Volume Control) is practicable. |                     |                     |
| Calculated Weighted C Factor:                                                                                                                                                                                                                                                                                                                           |                     | 0.85                |

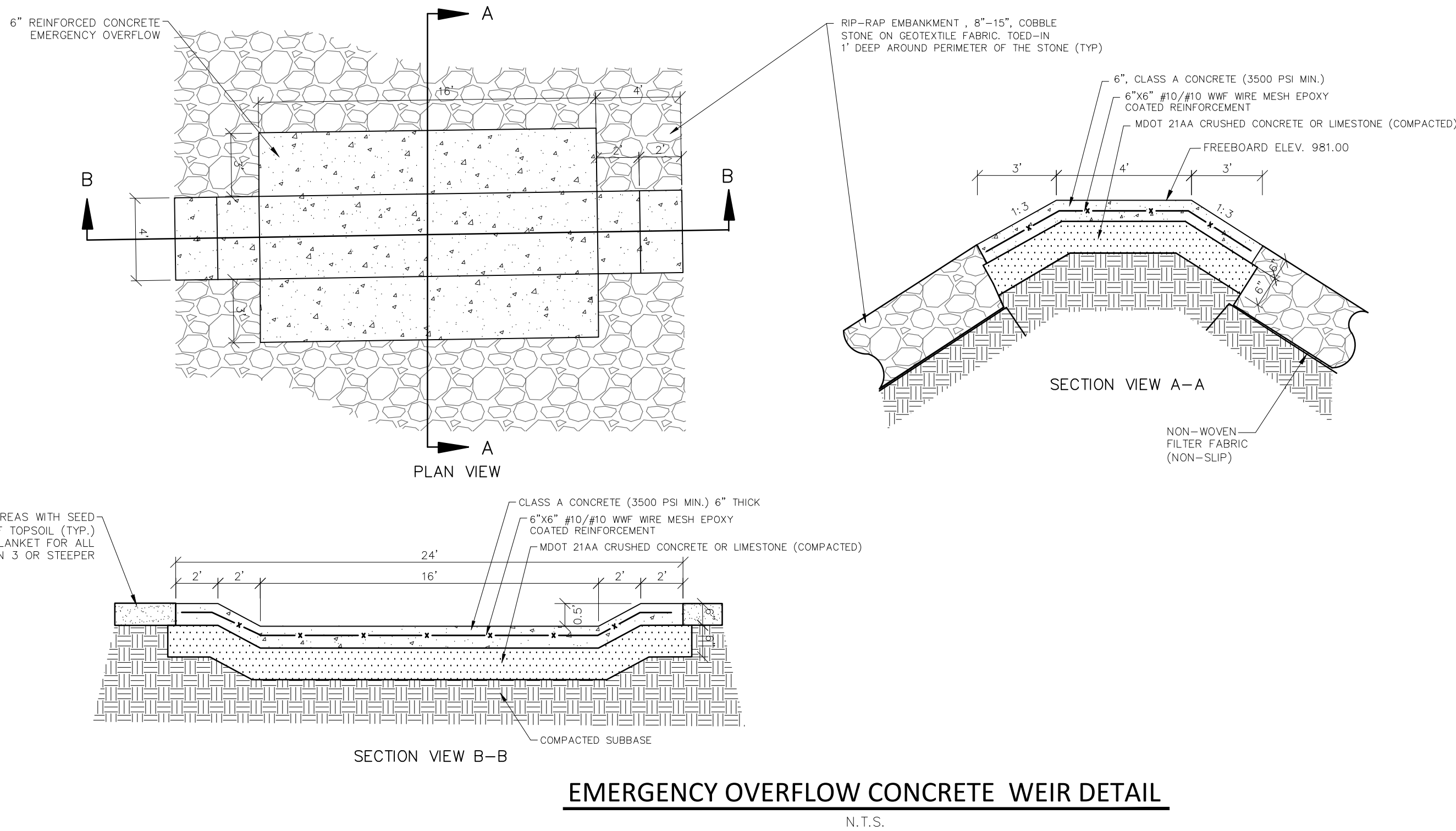
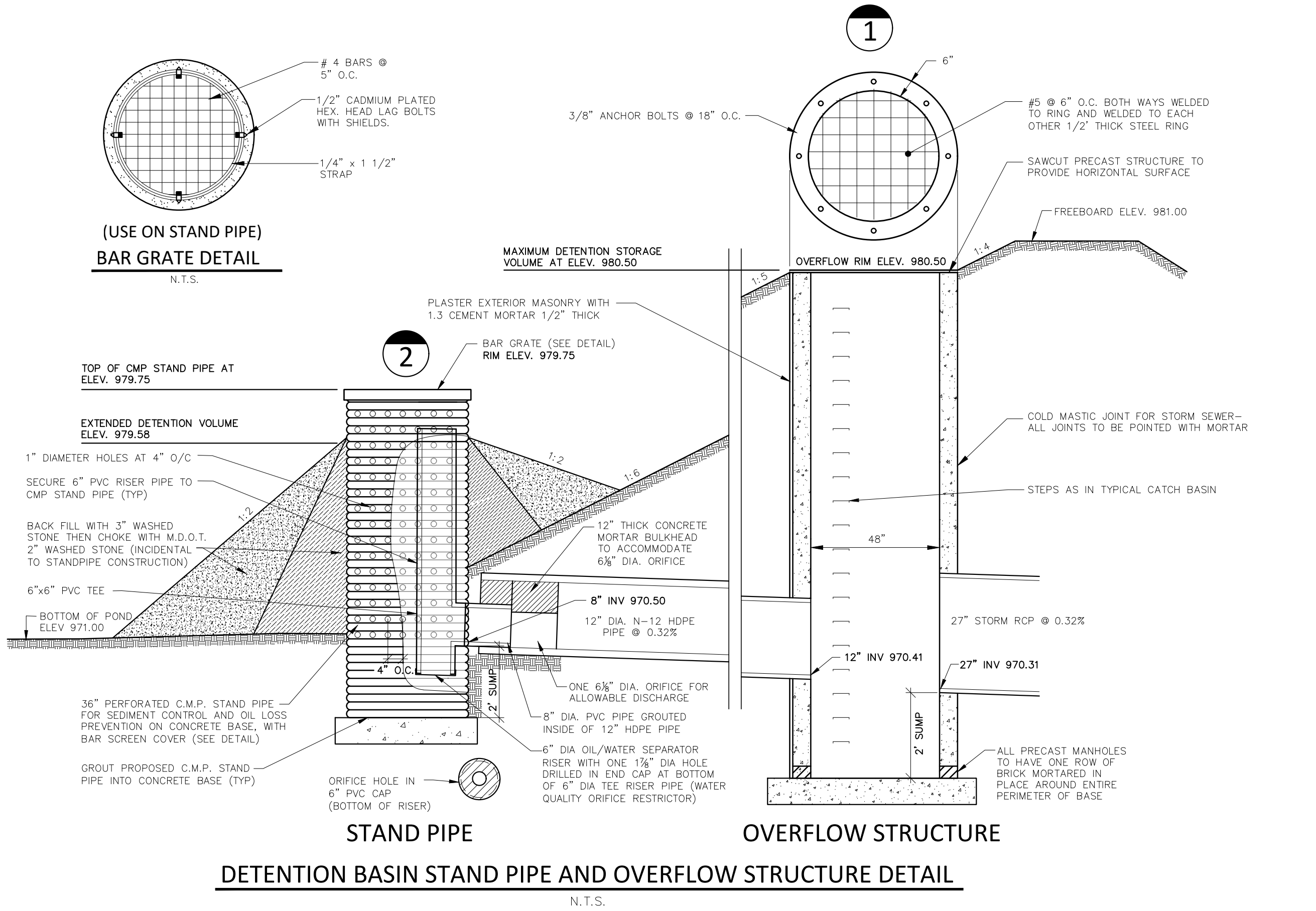
| REQUIRED DETENTION VOLUME CALCULATIONS                                        |                |            |
|-------------------------------------------------------------------------------|----------------|------------|
| 50 Year Post-Development Detenti on Volume                                    |                |            |
| Name of Project:                                                              | Jackson Armory |            |
| Location of Project:                                                          | Jackson, MI    |            |
| NFE Project No.:                                                              | O679           |            |
| Contributing Acreage "A":                                                     | 6.39 ac        |            |
| Weighted Runoff Coefficient "C":                                              | 0.85           |            |
| Time of Concentration "Tc":                                                   | 15.00 min      |            |
| 1. Calculate Required Water Quality Volume (Vwq) (1" Rainfall Event)          |                |            |
| Vwq = 3,630(C)(A)                                                             | 19,810 cft     |            |
| 2. Calculate Required Water Quality Rate (Qwq)                                |                |            |
| Qwq = (C)(A)30.20/(Tc+5.17)^.81                                               | 12.49 cfs      |            |
| 3. Calculate Required Channel Protection Volume (Vcpvc) (1.3" Rainfall Event) |                |            |
| Vcpvc = 4,719(C)(A)                                                           | 25,753 cft     |            |
| 4. Calculate Required Extended Detention Volume (Ved) (1.9" Rainfall Event)   |                |            |
| Ved = 6,897(C)(A)                                                             | 37,639 cft     |            |
| 5. Calculate Extended Detention Outlet Rate (Qed) (48 hour discharge)         |                |            |
| Qed = Ved / [(48 hr)(60 min)(60 sec)] = Ved/172,800                           | 0.22 cfs       |            |
| 6. Calculate 50-year Rainfall Intensity (I50)                                 |                |            |
| I50 = 2.5 in/hr                                                               | 2.50 in/hr     |            |
| 7. Calculate 50-year Post-Development Peak Inflow Rate (Q50-in)               |                |            |
| Q50-in = (C)(I50)(A)                                                          | 13.64 cfs      |            |
| 8. Calculate the Allowable Release Rate (Qvrr)                                |                |            |
| Qvrr = 1.1055-(0.206*LN(A))                                                   | 0.72 cfs/ac    |            |
| Restricted Outlet rate per local municipality                                 | 0.150 cfs/ac   |            |
| 9. Calculate Allowable 50-year Storm Outlet Rate (Q50P)                       |                |            |
| Q50p = (Qvrr)(A)                                                              | 0.96 cfs       |            |
| 10. Calculate Storage Curve Factor (R)                                        |                |            |
| R = 0.206-(0.15)(LN(Q50P/Q50-in))                                             | 0.604          |            |
| 11. Calculate Required 50-year Storm Volume In (V50R)                         |                |            |
| V50R = (I50*(43560/12)) (C)(A)                                                | 49,525 cft     |            |
| 12. Calculate 50-year Storm Detention Storage Volume (V50D)                   |                |            |
| V50D = (V50R)(R)                                                              | 29,930 cft     |            |
| Vcp(credit)                                                                   | 0 cft          |            |
| TOTAL DETENTION VOLUME REQUIRED:                                              |                | 37,639 cft |

| PROVIDED DETENTION VOLUME CALCULATIONS         |                   |                          |                         |
|------------------------------------------------|-------------------|--------------------------|-------------------------|
| Volume of Frustum: AB = H ( A + B + V AB ) / 3 |                   |                          |                         |
| DETENTION BASIN                                |                   |                          |                         |
| Contour Elevation                              | Surface Area (sf) | Incremental Volume (cft) | Cumulative Volume (cft) |
| 971                                            | 204               | --                       | 0                       |
| 972                                            | 786               | 463                      | 463                     |
| 973                                            | 1,480             | 1,115                    | 1,578                   |
| 974                                            | 2,263             | 1,858                    | 3,436                   |
| 975                                            | 3,132             | 2,686                    | 6,122                   |
| 976                                            | 4,075             | 3,593                    | 9,715                   |
| 977                                            | 5,187             | 4,620                    | 14,335                  |
| 978                                            | 6,301             | 5,735                    | 20,070                  |
| 979                                            | 7,430             | 6,858                    | 26,928                  |
| 980                                            | 8,620             | 8,018                    | 34,946                  |
| Volume of Proposed Detention Basin:            |                   | 34,946                   |                         |
| TOTAL VOLUME PROVIDED (cft)                    |                   | 34,946                   |                         |

| TOTAL DETENTION VOLUME CALCULATIONS                             |              |
|-----------------------------------------------------------------|--------------|
| STORM SEWER + DETENTION BASIN                                   |              |
| STORM SEWER STORAGE VOLUME                                      |              |
| 18" Storm (597 LF)                                              | 1,056.13 cft |
| 24" Storm (623 LF)                                              | 1,959.34 cft |
| 30" Storm (32 LF)                                               | 240.59 cft   |
| Storm Structures (7, 4' DIA Structures, filled to 1' below rim) | 880.60 cft   |
| Total Storage Provided in Storm Sewer System                    | 4,137 cft    |
| DETENTION BASIN                                                 |              |
| Total Storage Provided in Proposed Detention Pond               | 34,946 cft   |
| TOTAL DETENTION VOLUME PROVIDED                                 |              |
| 39,083 cft                                                      |              |

| PROVIDED CATCH BASIN INFILTRATION VOLUME CALCULATIONS           |               |           |
|-----------------------------------------------------------------|---------------|-----------|
| PROVIDED INFILTRATION VOLUME                                    |               |           |
| 1. Calculate Infiltration Volume of Open Bottom Storm Structure |               |           |
| Ksat (Estimated per Geotechnical Report)                        | 0.5-0.8 in/hr |           |
| SF (safety factor)                                              | 1             |           |
| Sump Volume in Catch Basin                                      | 37.74 cft     |           |
| Vi=Sump Volume * # of Catch Basins                              |               |           |
| TOTAL INFILTRATION VOLUME PROVIDED:                             |               | 301.9 cft |

| MULTI-STAGE DETENTION OUTLET CALCULATIONS                   |            |  |
|-------------------------------------------------------------|------------|--|
| Extended Detention & 50-Year - Circular Orifice             |            |  |
| Contributing Acreage "A":                                   | 6.39 ac    |  |
| Weighted Runoff Coefficient "C":                            | 0.85       |  |
| 50-Year Storm Allowable Outlet Rate "Q50p":                 | 0.959 cfs  |  |
| Extended Detention Volume Discharge Rate "Qed":             | 0.218 cfs  |  |
| Top of Detention Storage "Ztop":                            | 980.00     |  |
| Bottom of Detention Storage "Zbot":                         | 971.00     |  |
| Elevation of Outlet Control "Zout":                         | 970.50     |  |
| EXTENDED DETENTION OUTLET CALCULATIONS                      |            |  |
| Extended Detention Volume "Ved":                            | 37,639 cft |  |
| Extended Detention Elevation "Zed":                         | 979.58     |  |
| Calculate Average Head "Hed":                               |            |  |
| Hed = 0.5*(Zed-Zout)                                        | 4.540 ft   |  |
| Calculate Required Orifice Area "Aed":                      |            |  |
| Aed = Qed / (0.62*(2*g*Hed)^0.5)                            | 0.021 sft  |  |
| Provided Number of Holes                                    | 1 Hole     |  |
| Required Diameter of Holes                                  | 1.875 in   |  |
| Provided Orifice Area "Aed-act":                            | 0.019 sft  |  |
| Calculate Actual Average Release Rate "Qed-act":            |            |  |
| Qed-act = 0.62*Aed-act*(2*g*Hed)^0.5                        | 0.203 cfs  |  |
| Calculate Actual Holding Time "Ted":                        |            |  |
| Ted = (Ved/Qed-act)/3600                                    | 51.43 hr   |  |
| ** Use (1) 1.875" Hole @ 970.50 **                          |            |  |
| 50-YEAR FLOOD VOLUME OUTLET CALCULATIONS                    |            |  |
| Calculate Head on Extended Detention Holes "Hout":          |            |  |
| Hout = Ztop - Zout                                          | 9.500 ft   |  |
| Calculate Flow through Extended Detention Holes "Q50p-ed":  |            |  |
| Q50p-ed = (0.62*Aed-act(2*32.2*Hout)^0.5)                   | 0.294 cfs  |  |
| Calculate Adjusted Required Outlet Release Rate "Q50p-adj": |            |  |
| Q50p-adj = Q50p - Q50p-ed                                   | 0.664 cfs  |  |
| Calculate Head on 50-year Holes "H50p":                     |            |  |
| H50p = Ztop - Zed                                           | 0.42 ft    |  |
| Calculate Required Orifice Area "A50p":                     |            |  |
| A50p = (Q50p-adj / (0.62*(2*g*H50p)^0.5))                   | 0.206 sft  |  |
| Provided Number of Holes                                    | 1 Hole     |  |
| Required Diameter of Holes                                  | 6.125 in   |  |
| Provided Orifice Area "A50p-act":                           | 0.205 sft  |  |
| Calculate Actual Peak Release Rate "Q50p-act":              |            |  |
| Q50p-act = (0.62*A50p-act*(2*g*H50p)^0.5)                   | 0.660 cfs  |  |
| Calculate Total Release Rate "Q50p-tot":                    |            |  |
| Q50p-tot = Q50p-ed + Q50p-act                               | 0.954 cfs  |  |
| ** Use (1) 6.125" Dia. Orifice in Outlet Pipe **            |            |  |
| OVERFLOW WIER FLOW RATE                                     |            |  |
| 10 year flow rate                                           | 6.021 cfs  |  |
| Length of Weir Crest (Lweir)                                | 6.000 ft   |  |
| Head Above Weir Crest (Hweir)                               | 0.500 ft   |  |
| Qweir = 3.367*Lweir*Hweir^(3/2)                             | 7.142 cfs  |  |



#### STORM SEWER CALCULATIONS

Intensity (I) = B / ( T + D ) ^ E  
B = 119  
D = 15  
E = 1  
Industrial Developments "Tc" = 15 min  
Concrete Pipe "n" Value = 0.013

| Drainage Area | From Manhole Number | To Manhole Number | Drainage Area (Acres) | Runoff Coeff. (C) | Equiv. Area (Cx A) | Total Area (Sum Cx A) | Total Area (Acres) | Time of Conc. Tc (min.) | Rainfall Intensity I (in/hr) | Actual Discharge Q (cfs) | Pipe Size (inch) | Pipe Slope (% Slope) | Pipe Length (feet) | Flow Full Velocity (ft/sec) | Time of Flow (Minutes) | Full Pipe Capacity (cfs) | Minimum HGL per Flow | HGL Elev. Upper End | Lower End | Rim Elevation Upper End | Lower End | Invert Elevation Upper End | Lower End |
|---------------|---------------------|-------------------|-----------------------|-------------------|--------------------|-----------------------|--------------------|-------------------------|------------------------------|--------------------------|------------------|----------------------|--------------------|-----------------------------|------------------------|--------------------------|----------------------|---------------------|-----------|-------------------------|-----------|----------------------------|-----------|
| 10            | 10                  | 8                 | 0.11                  | 0.90              | 0.10               | 0.10                  | 0.11               | 15.00                   | 3.97                         | 0.40                     | 18               | 0.32                 | 39                 | 3.4                         | 0.2                    | 5.94                     | 0.00%                | 986.75              | 986.63    | 992.44                  | 992.00    | 985.55                     | 985.43    |
| 6             | 6                   | 5                 | 0.49                  | 0.90              | 0.44               | 0.44                  | 0.49               | 15.00                   | 3.97                         | 1.74                     | 18               | 0.32                 | 251                | 3.4                         | 1.2                    | 5.94                     | 0.03%                | 989.15              | 988.34    | 995.10                  | 994.25    | 987.95                     | 987.14    |
| 5             | 5                   | 4                 | 0.70                  | 0.56              | 0.40               | 0.83                  | 1.19               | 16.20                   | 3.81                         | 3.18                     | 18               | 0.32                 | 149                | 3.4                         | 0.7                    | 5.94                     | 0.09%                | 988.34              | 987.86    | 994.25                  | 994.20    | 987.14                     | 986.66    |
| 9             | 9                   | 8                 | 0.80                  | 0.90              | 0.72               | 0.72                  | 0.80               | 15.00                   | 3.97                         | 2.86                     | 18               | 0.32                 | 158                | 3.4                         | 0.8                    | 5.94                     | 0.07%                | 987.13              | 986.63    | 992.40                  | 992.00    | 985.93                     | 985.43    |
| 8             | 8                   | 7                 | 0.95                  | 0.90              | 0.85               | 1.67                  | 1.86               | 15.80                   | 3.86                         | 6.47                     | 24               | 0.32                 | 201                | 4.1                         | 0.8                    | 12.80                    | 0.08%                | 986.63              | 985.98    | 992.00                  | 992.30    | 985.03                     | 984.38    |
| 7             | 7                   | 4                 | 0.66                  | 0.82              | 0.54               | 2.21                  | 2.52               | 16.60                   | 3.77                         | 8.33                     | 24               | 0.32                 | 193                | 4.1                         | 0.8                    | 12.80                    | 0.14%                | 985.98              | 985.36    | 992.30                  | 994.20    | 984.38                     | 983.76    |
| -             | 4                   | 3A                | 0.27                  | 0.70              | 0.19               | 3.24                  | 3.98               | 17.40                   | 3.67                         | 11.89                    | 24               | 1.00                 | 229                | 7.2                         | 0.5                    | 22.62                    | 0.28%                | 985.36              | 983.07    | 994.20                  | 989.36    | 983.76                     | 981.47    |
| 4             | 3A                  | 3                 | 0.00                  | 0.00              | 0.00               | 3.24                  | 3.98               | 17.90                   | 3.62                         | 11.89                    | 30               | 0.24                 | 29                 | 4.1                         | 0.1                    | 20.09                    | 0.08%                | 983.07              | 983.00    | 989.36                  | 984.72    | 981.07                     | 981.00    |

Project No: O679  
Project Name: Jackson Armory  
Location: Jackson, MI  
Dated: 09/19/25

CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS  
46777 WOODWARD AVENUE  
TONTONCHANG, MI 48066  
TEL: (248) 332-7931  
FAX: (248) 332-8257  
NF ENGINEERS

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

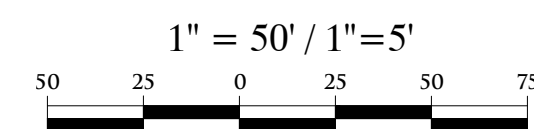
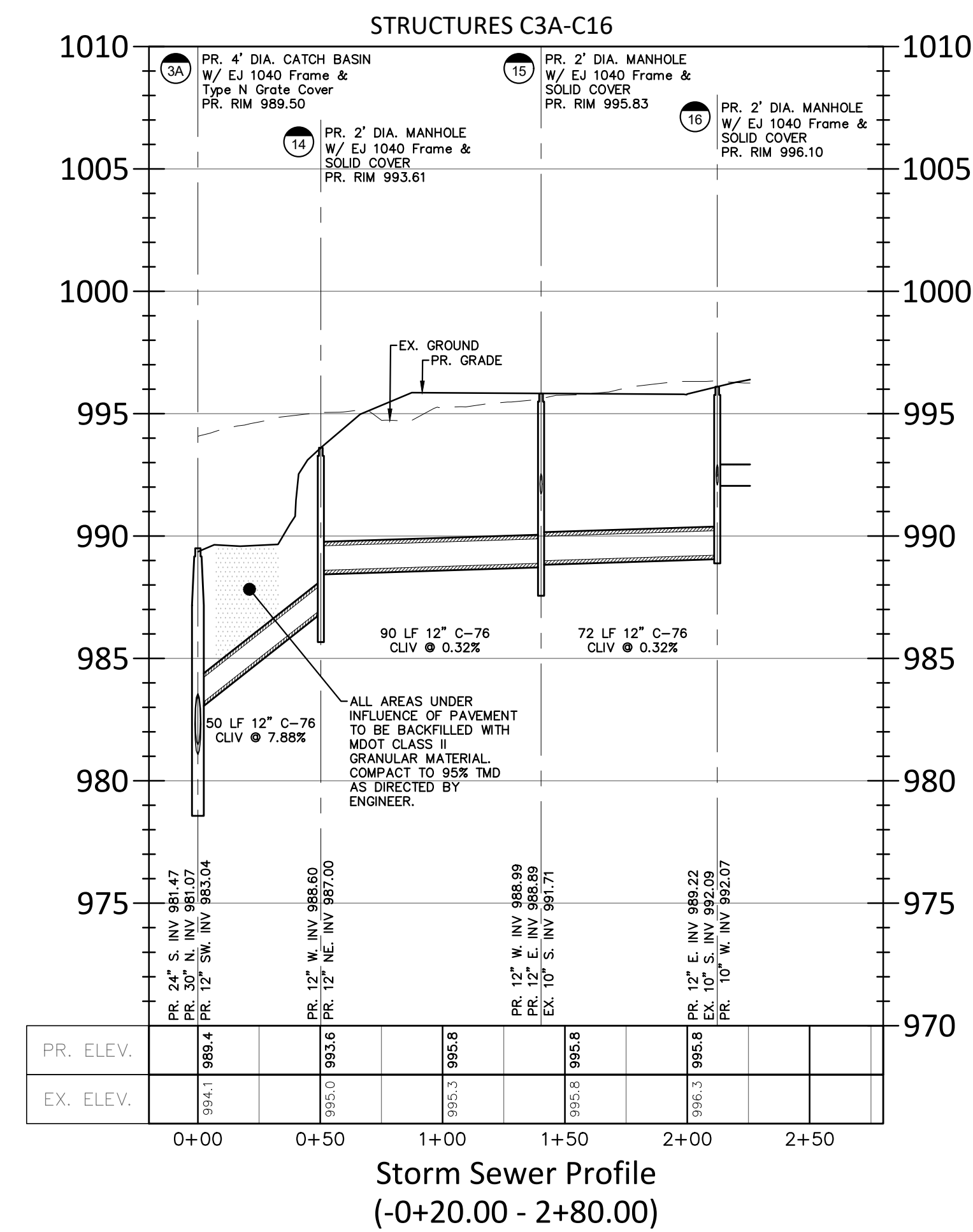
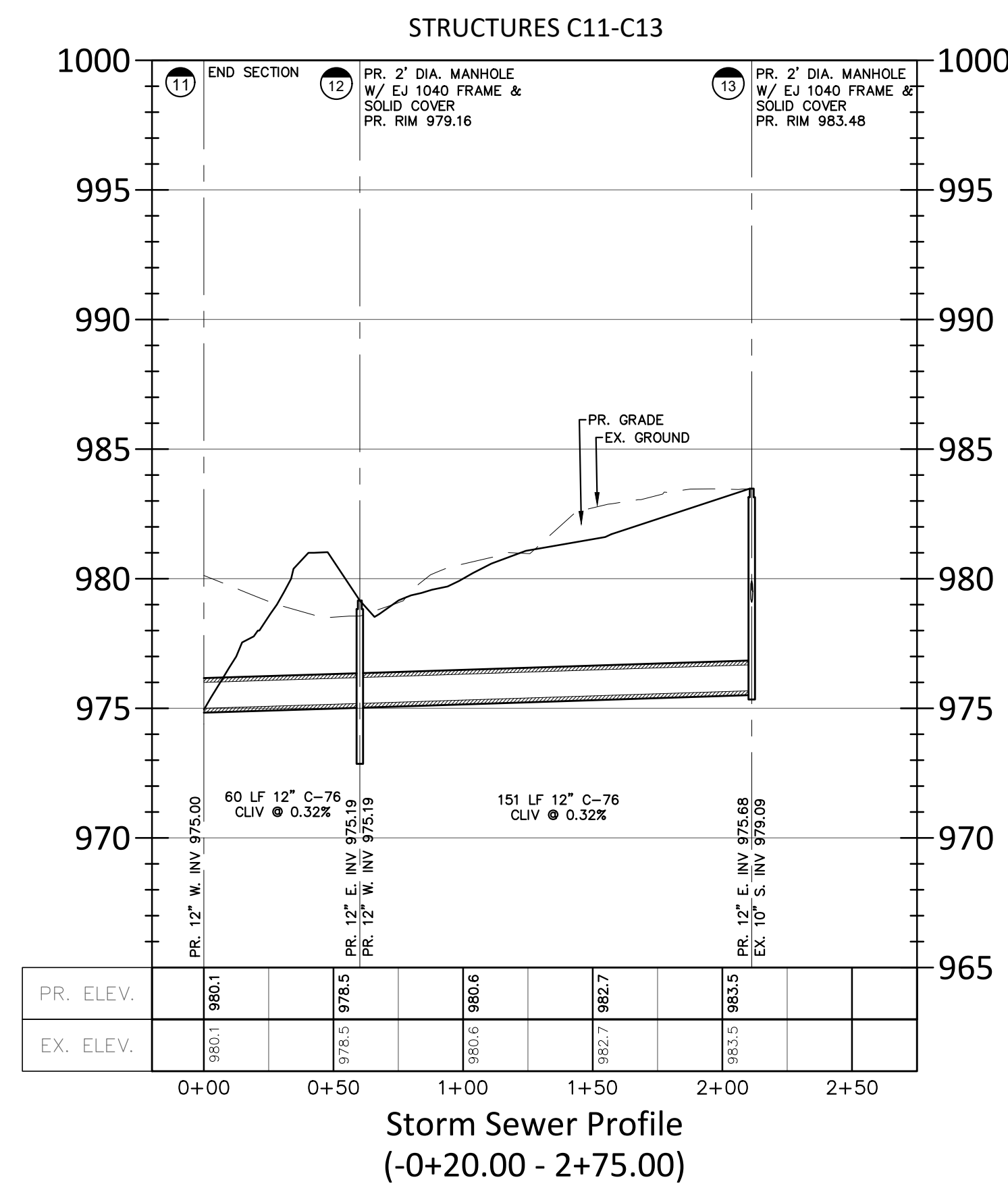
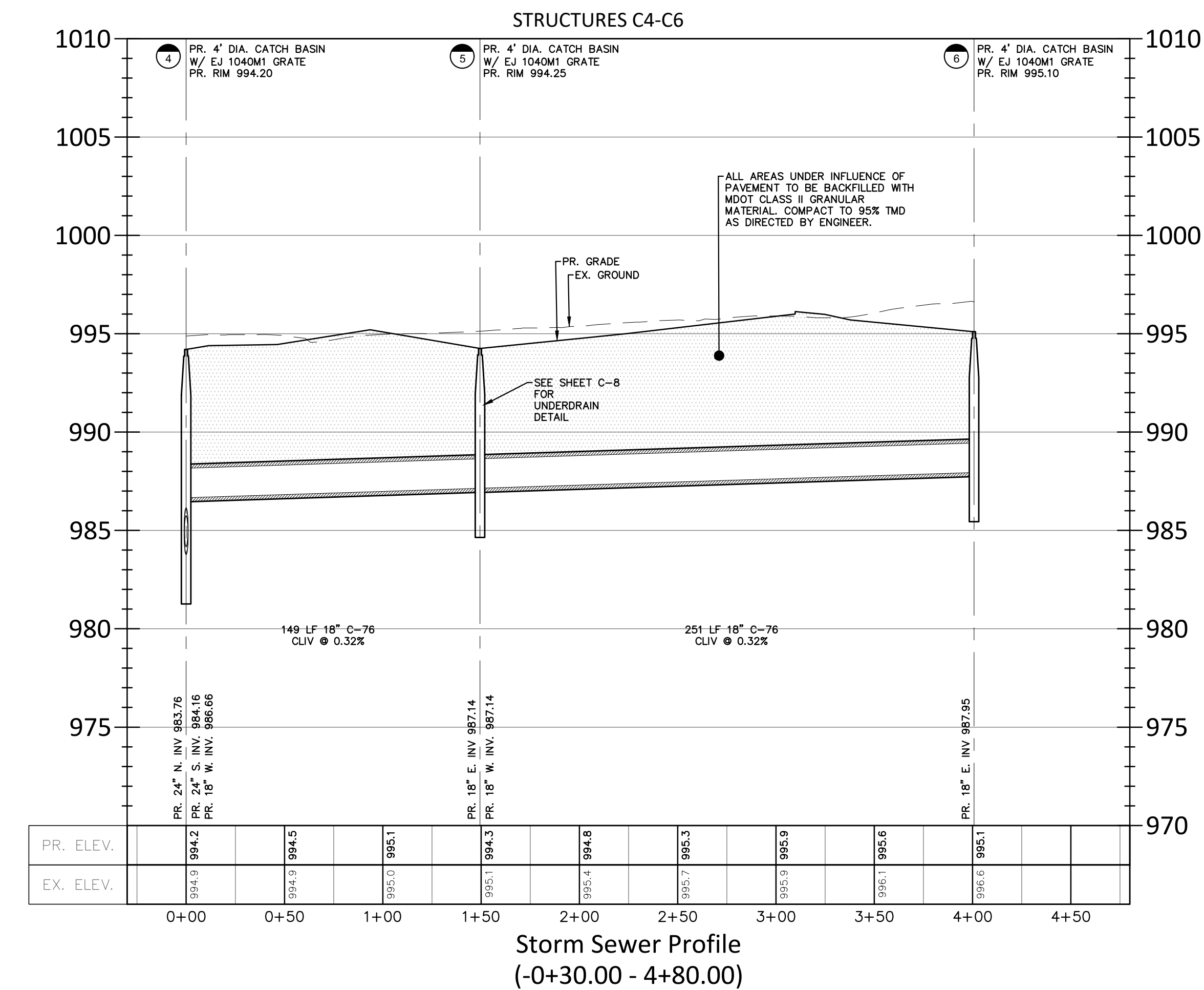
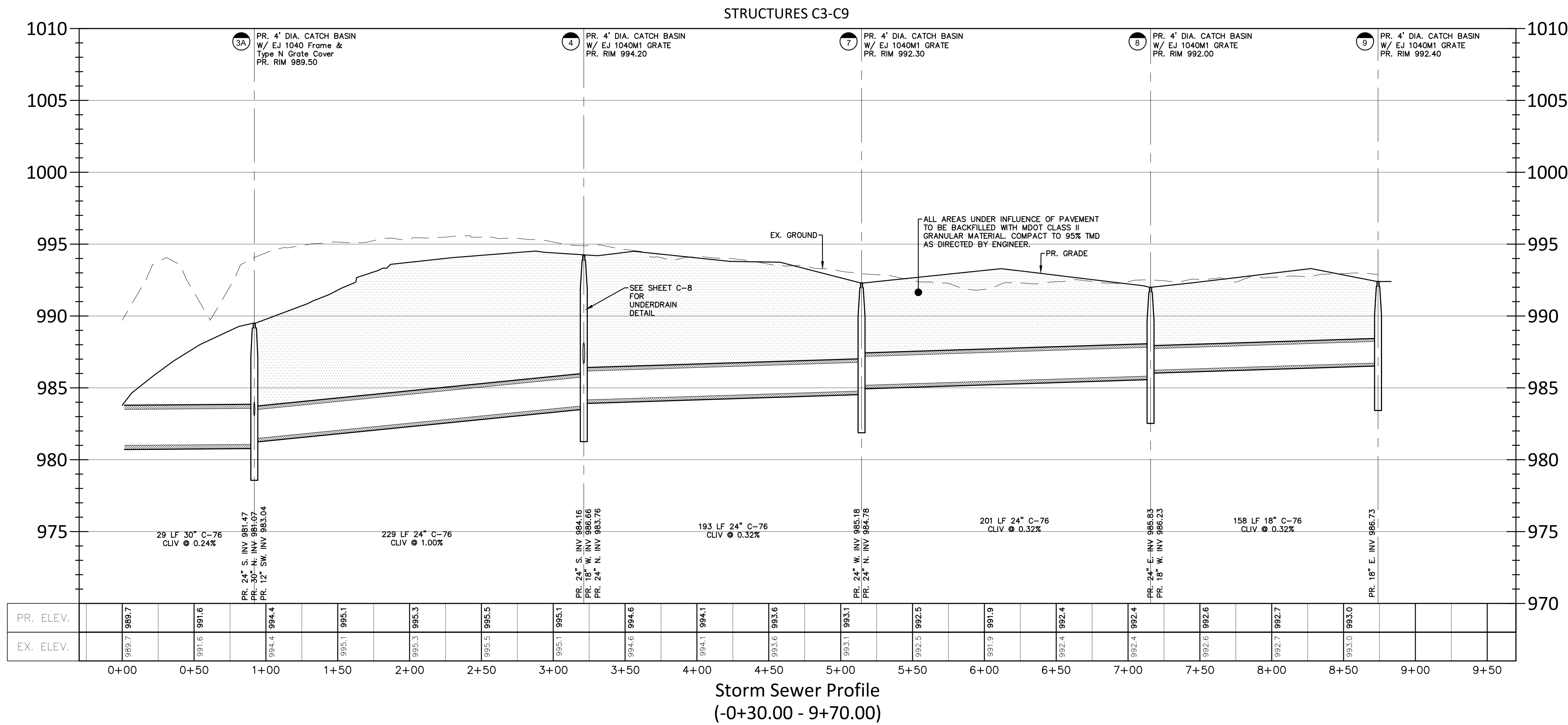
|            | Bld Documents    | Review |
|------------|------------------|--------|
| 2025-01-15 | Site Plan (100%) |        |
| 2025-04-01 | Site Plan (60%)  |        |
| 2025-06-01 | Site Plan (60%)  |        |
| DATE       |                  |        |

PROJECT DESCRIPTION  
RENOVATE ARMORY  
JACKSON (WEST) ARMORY DEVELOPMENT  
2700 W Argyle Street, Jackson, MI 48202

STORMWATER & DETENTION CALCULATIONS

|                |          |    |    |    |
|----------------|----------|----|----|----|
| DMA PROJECT #  | 51292099 | EO | MW | SS |
| DTMB PROJECT # | 154801   |    |    |    |
| ARCH PROJECT # |          |    |    |    |
| DRAWN BY       |          |    |    |    |
| DESIGNED BY    |          |    |    |    |
| JCENG BY       |          |    |    |    |

C6



CONCRETE CURB DETAIL - STD  
N.T.S.

CONCRETE CURB DETAIL - REVERSE  
N.T.S.

6" MONOLITHIC CURB - DET A  
N.T.S.

4" CONCRETE SIDEWALK SECTION  
N.T.S.

6" CONCRETE SECTION  
N.T.S.

### 8" CONCRETE PAVEMENT SECTION

PRECAST CONCRETE BUMPER DETAIL

---

N.T.S.

CONCRETE SIDEWALK SECTION  
N.T.S.

### SPEED BUMP DETAIL

STANDARD DUTY ASPHALT SECTION  
N.T.S.

HEAVY DUTY ASPHALT SECTION  
N.T.S.

BUTT JOINT DETAIL  
N.T.S.

CONCRETE COLLAR DETAIL  
N.T.S.

DETECTABLE WARNING STRIP SHALL EXTEND ACROSS THE RAMP TO BE WITHIN 6" FROM THE EDGE OF CONCRETE AND SHALL BE LOCATED SO THAT THE EDGE NEAREST THE ROAD IS 6" TO 8" FROM THE END OF CONCRETE RAMP

**ACCESSIBLE RAMP TRUNCATED DOMES DETAIL**

N.T.S.

SIDEWALK RAMP, ADA, MODIFIED DETAIL  
N.T.S.

PLAN VIEW

SECTION A - A

| PIPE DIA. | "D"    | "E"    | "F"   | SV |
|-----------|--------|--------|-------|----|
| 12"       | 5' 0"  | 6' 6"  | 3' 0" | 4  |
| 15"       | 5' 0"  | 7' 0"  | 3' 0" | 4  |
| 18"       | 5' 0"  | 7' 6"  | 3' 6" | 4  |
| 21"       | 5' 6"  | 8' 0"  | 4' 0" | 5  |
| 24"       | 6' 0"  | 8' 6"  | 4' 6" | 6  |
| 27"       | 6' 6"  | 9' 0"  | 5' 0" | 7  |
| 30"       | 7' 0"  | 9' 6"  | 5' 6" | 8  |
| 36"       | 8' 0"  | 10' 9" | 6' 0" | 10 |
| 42"       | 9' 0"  | 11' 9" | 6' 6" | 12 |
| 48"       | 10' 0" | 13' 0" | 7' 0" | 14 |

SECTION C - C

## AN VIEW

END SECTION AND BAR SCREEN DETAIL  
N.T.S.

DRAINAGE STRUCTURE BOXOUT - DETAIL I  
N.T.S.

**TYPICAL PRE-CAST CATCH BASIN**

N.T.S.

UNDERDRAIN DETAIL  
N.T.S.

PERFORATED UNDERDRAIN  
N.T.S.

TRENCH DETAIL A  
SEWER NOT UNDER ROADBED

---

TRENCH DETAIL B  
SEWER UNDER ROADBED  
OR WITHIN INFLUENCE OF ROADBED

CIVIL ENGINEER

CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS



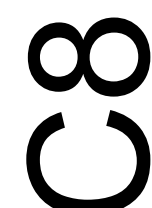
STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

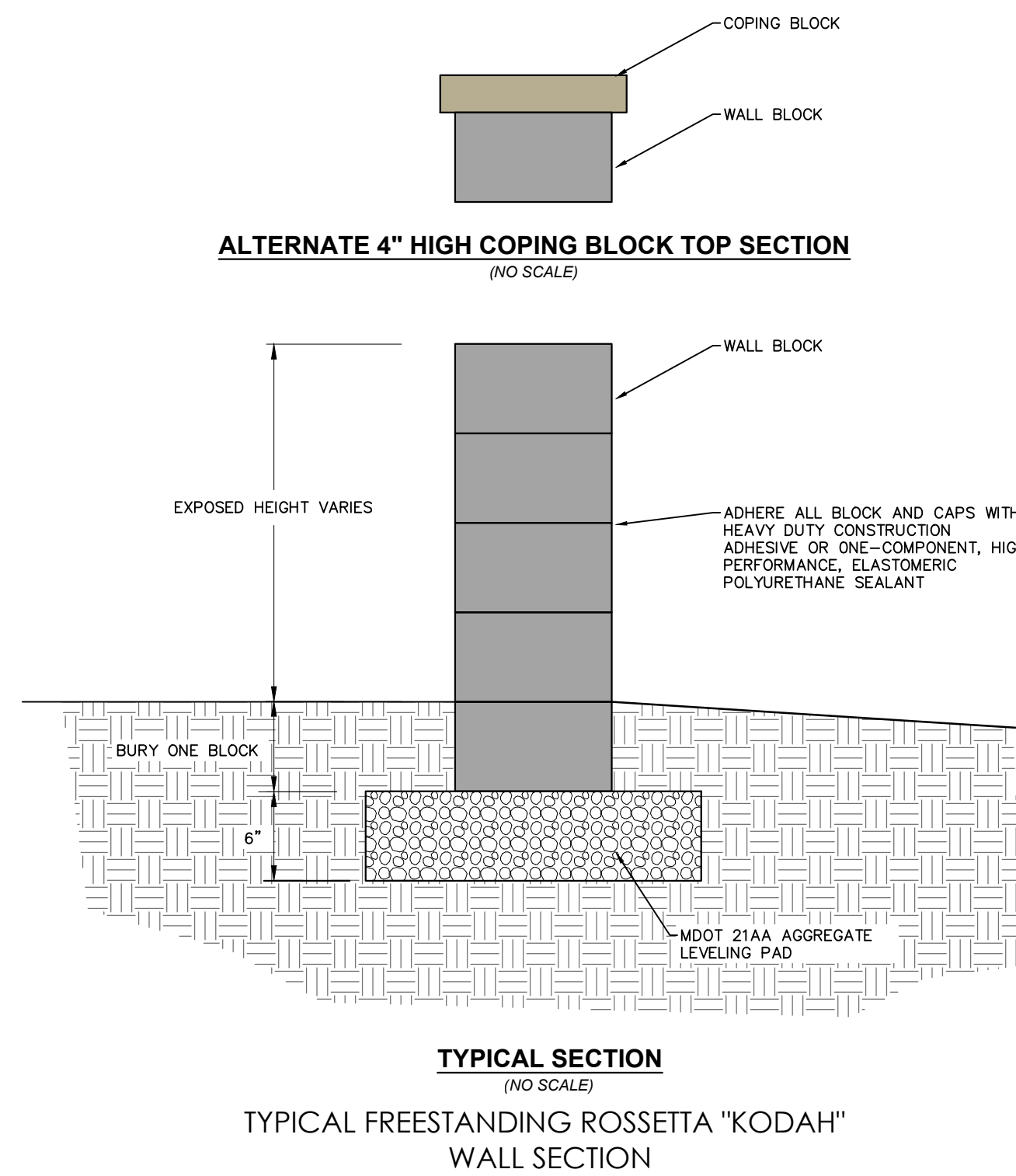
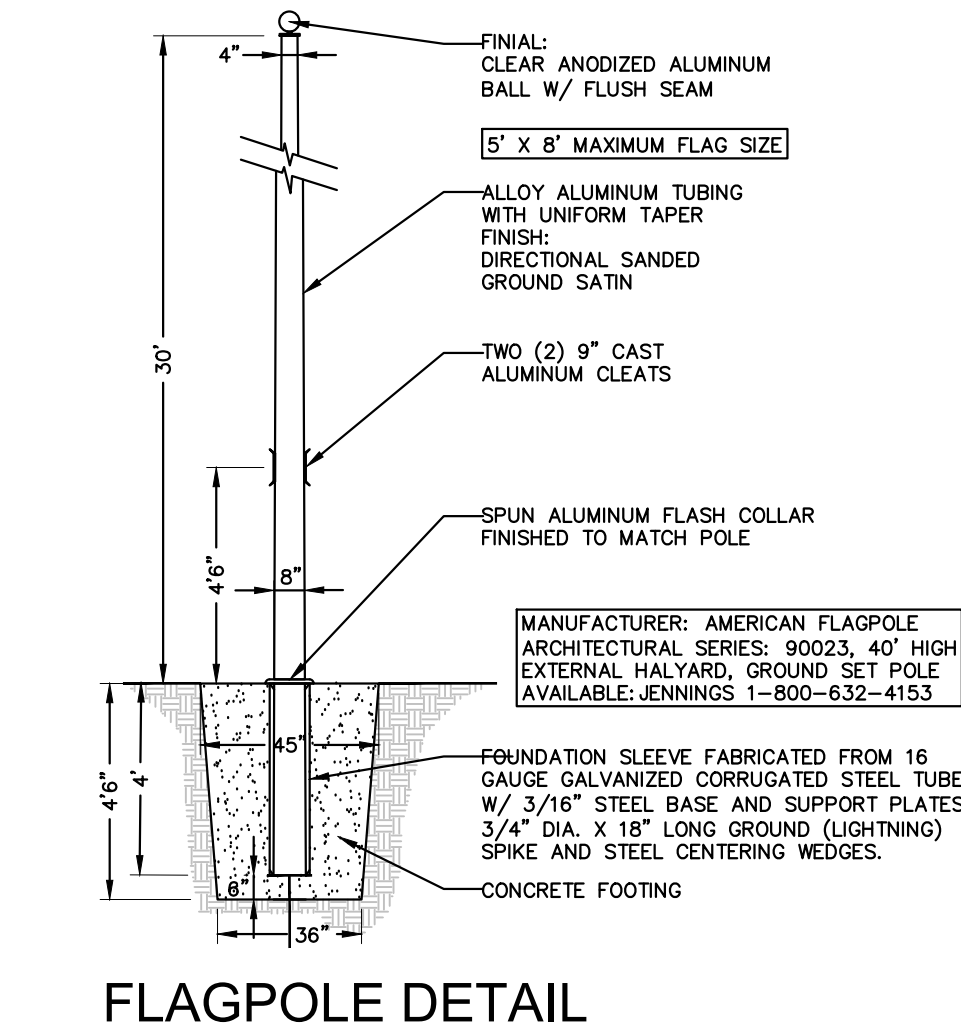
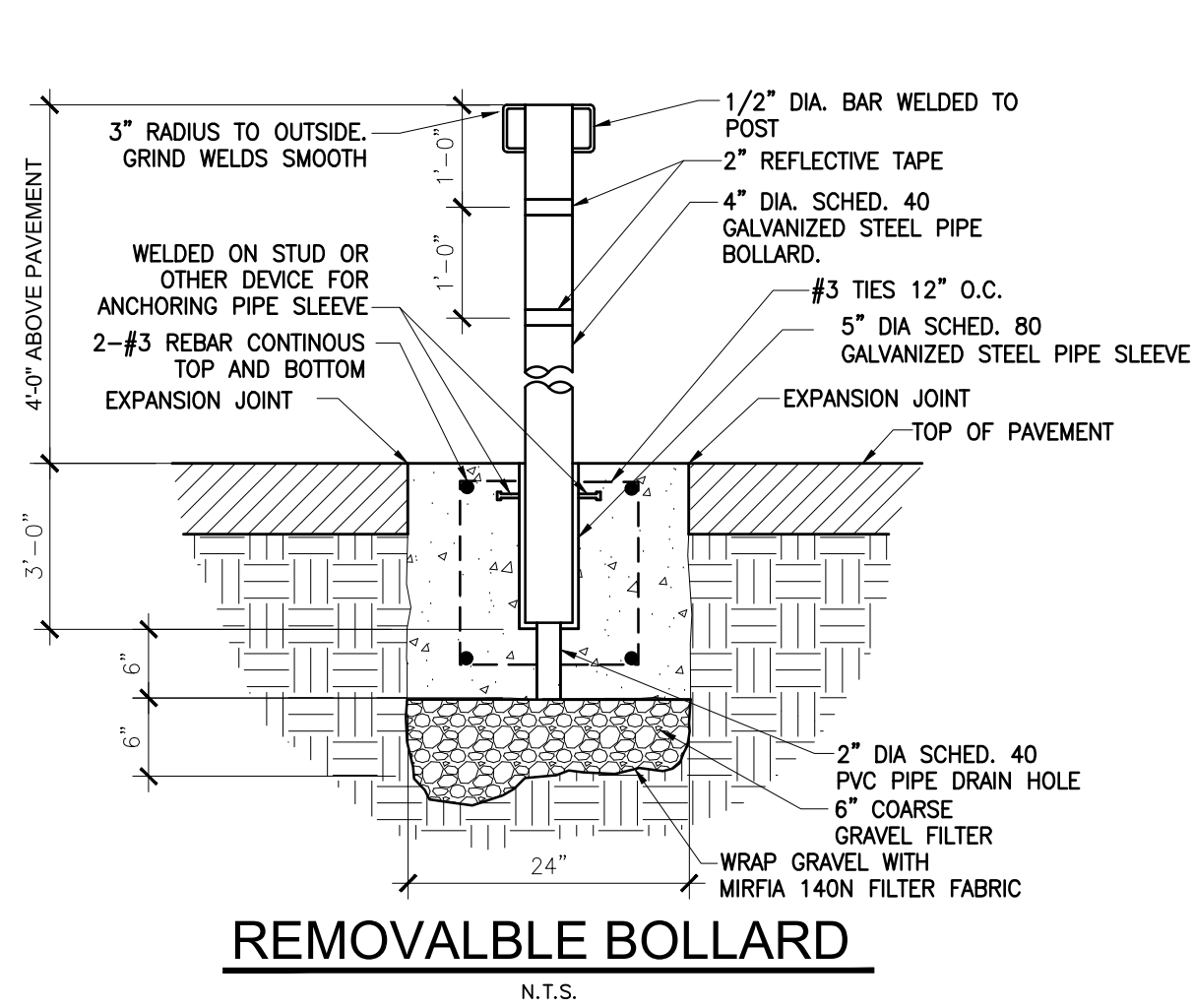
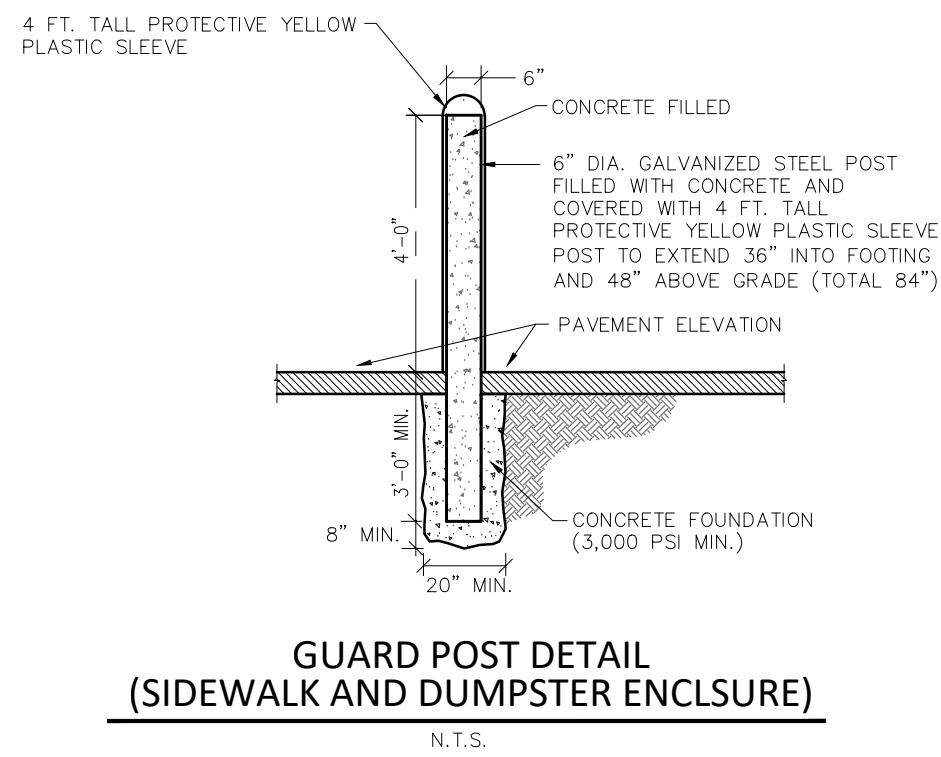
|            |                  |
|------------|------------------|
| 2026-01-15 | Bid Documents    |
| 2025-10-01 | Site Plan (100%) |
| 2025-09-22 | Site Plan (90%)  |
| 2025-08-01 | Site Plan (60%)  |
| DATE       | Review           |

| PROJECT DESCRIPTION                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------|
| <p><b>RENOVATE ARMORY</b></p> <p><b>JACKSON (WEST) ARMORY DEVELOPMENT</b></p> <p>2700 W Argyle Street, Jackson, MI 49202</p> |

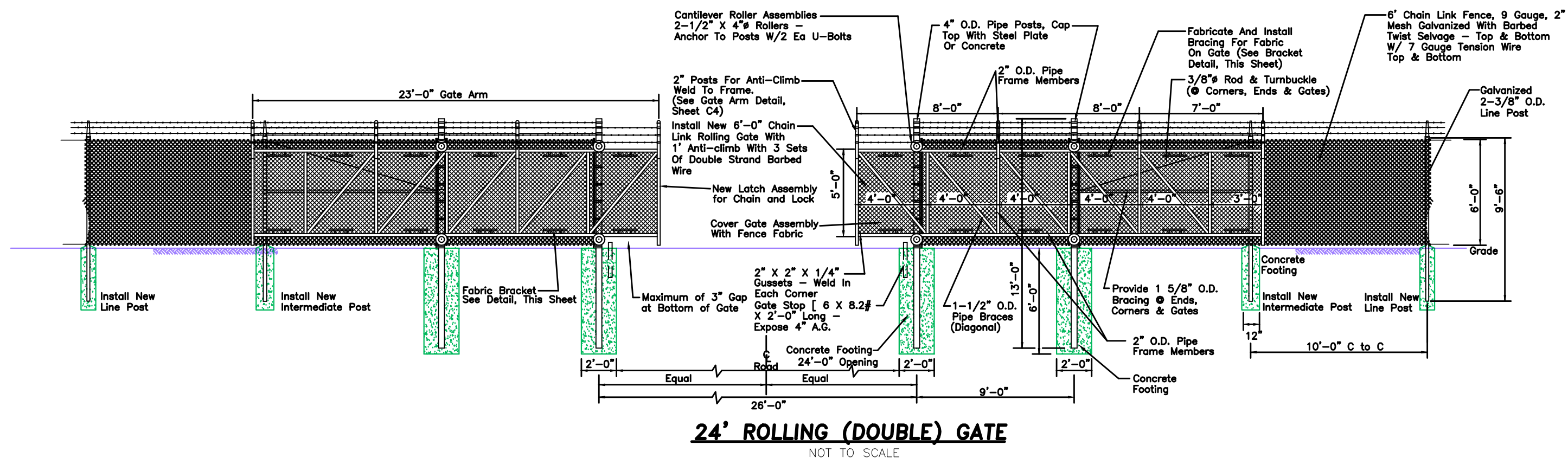
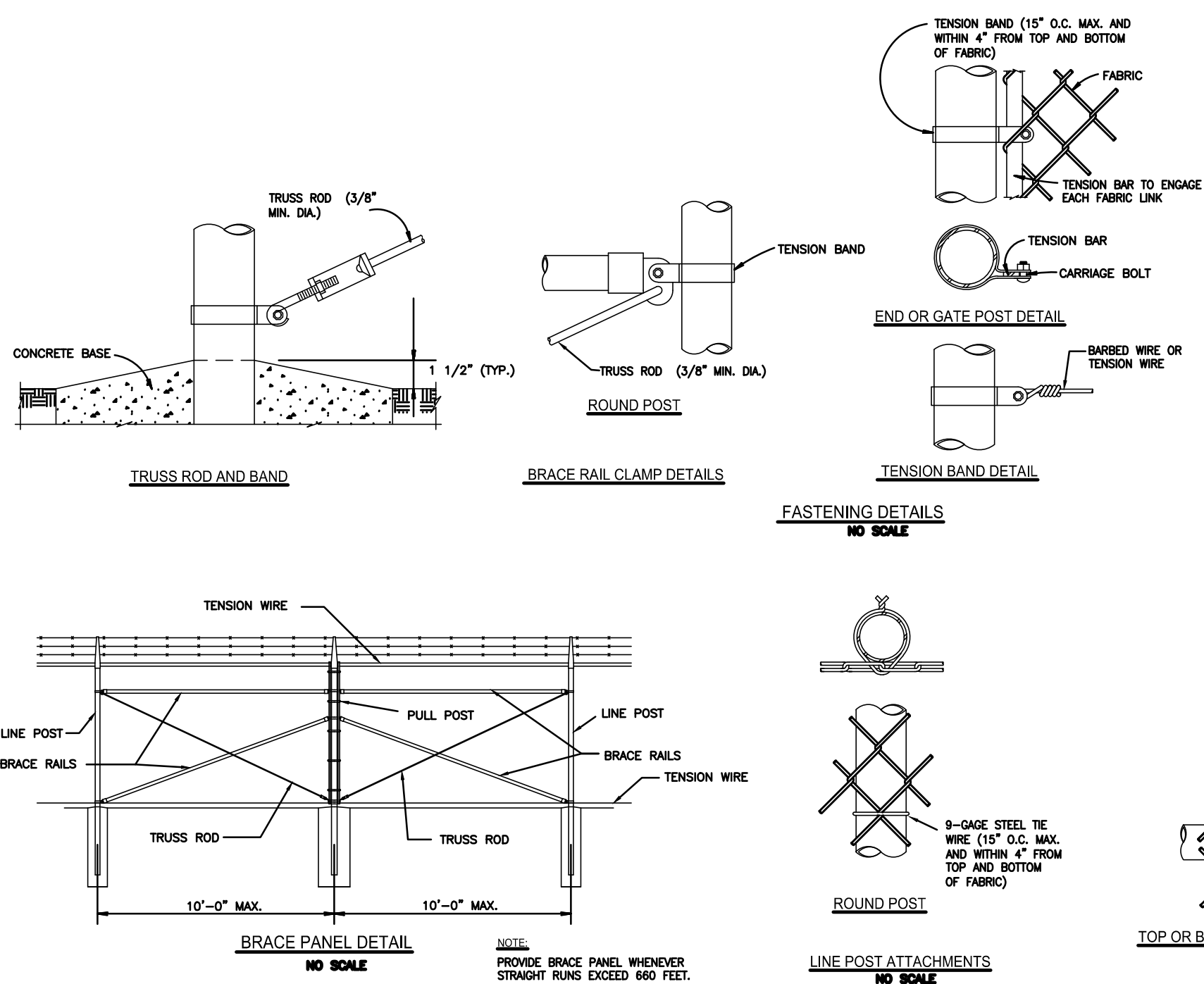
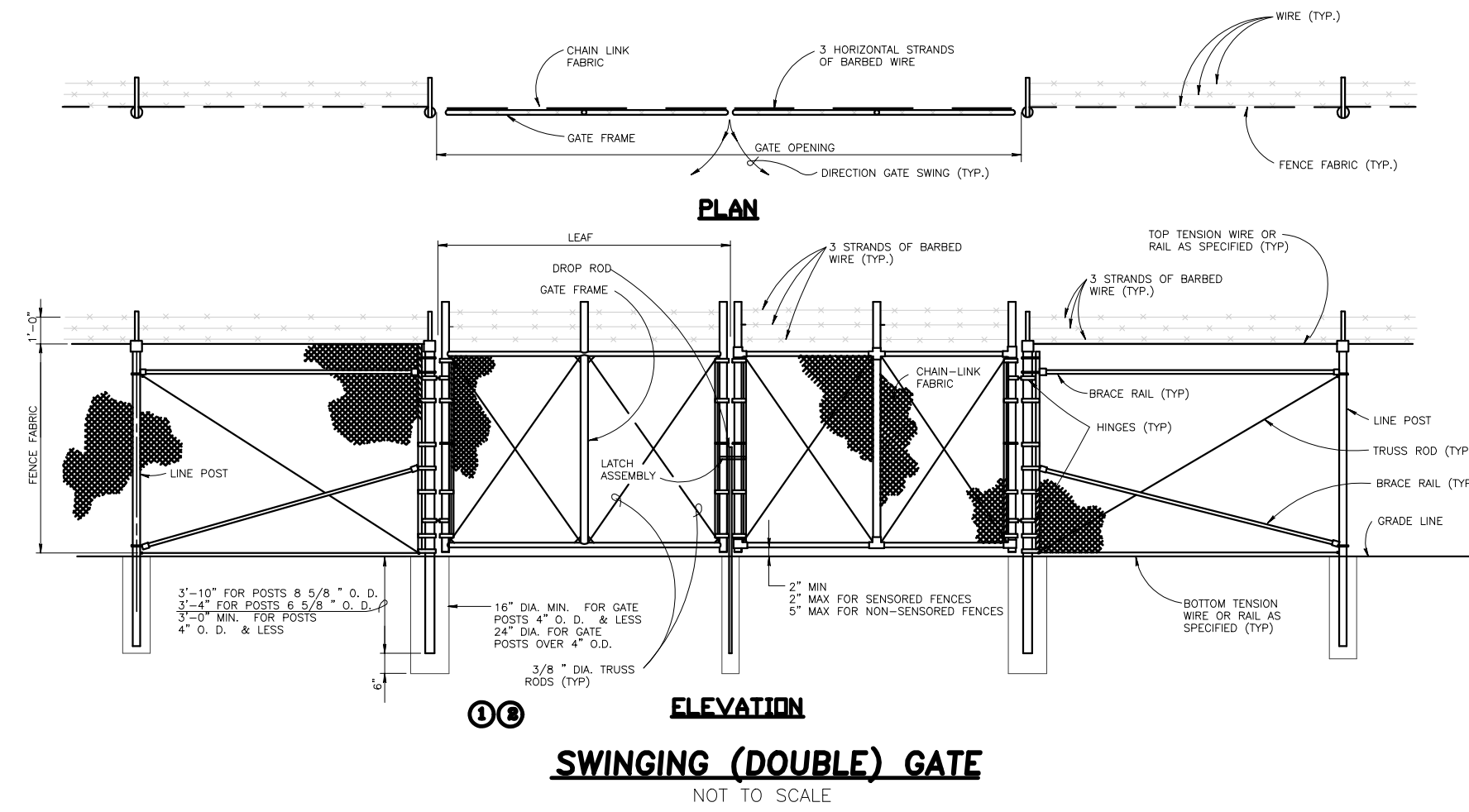
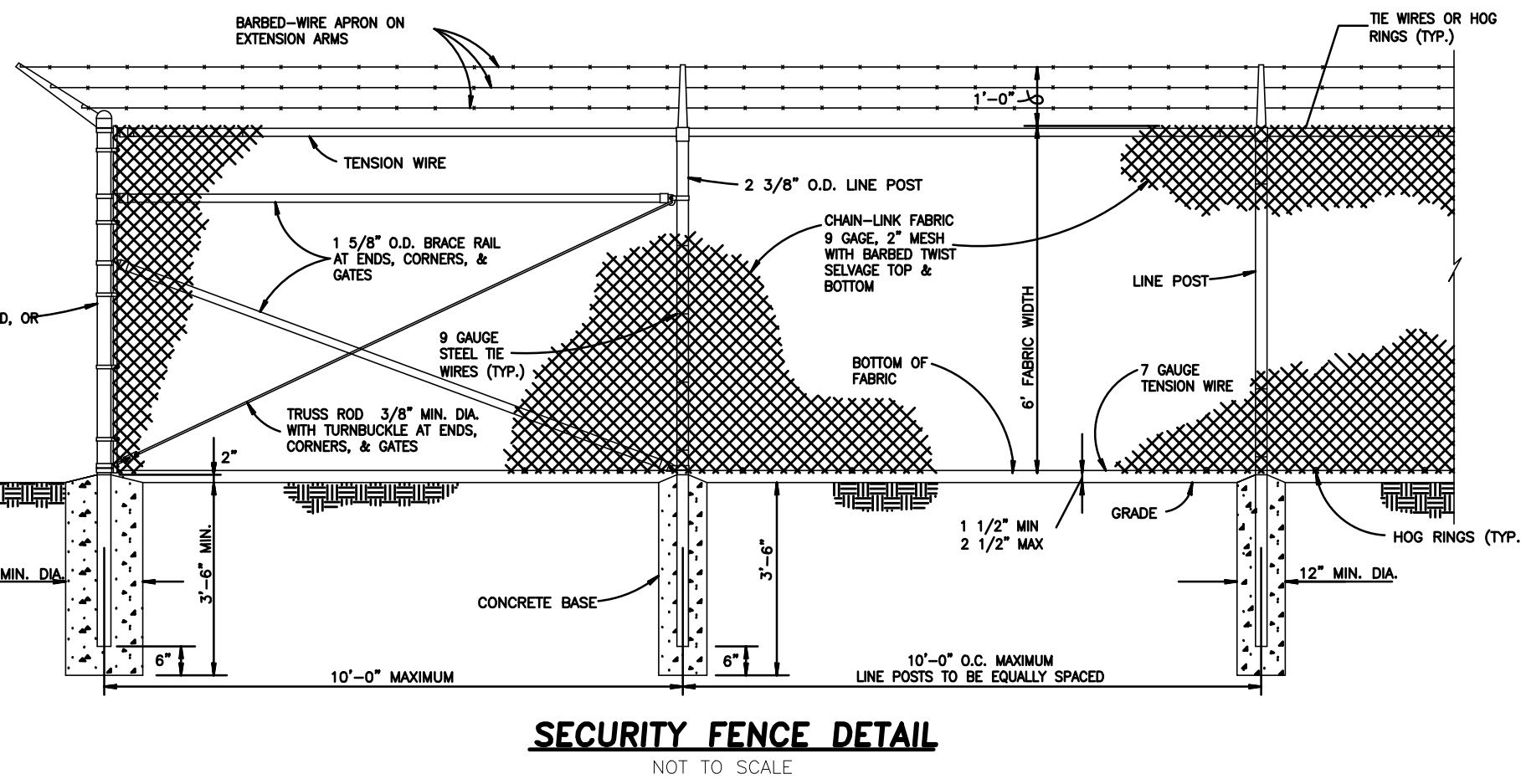
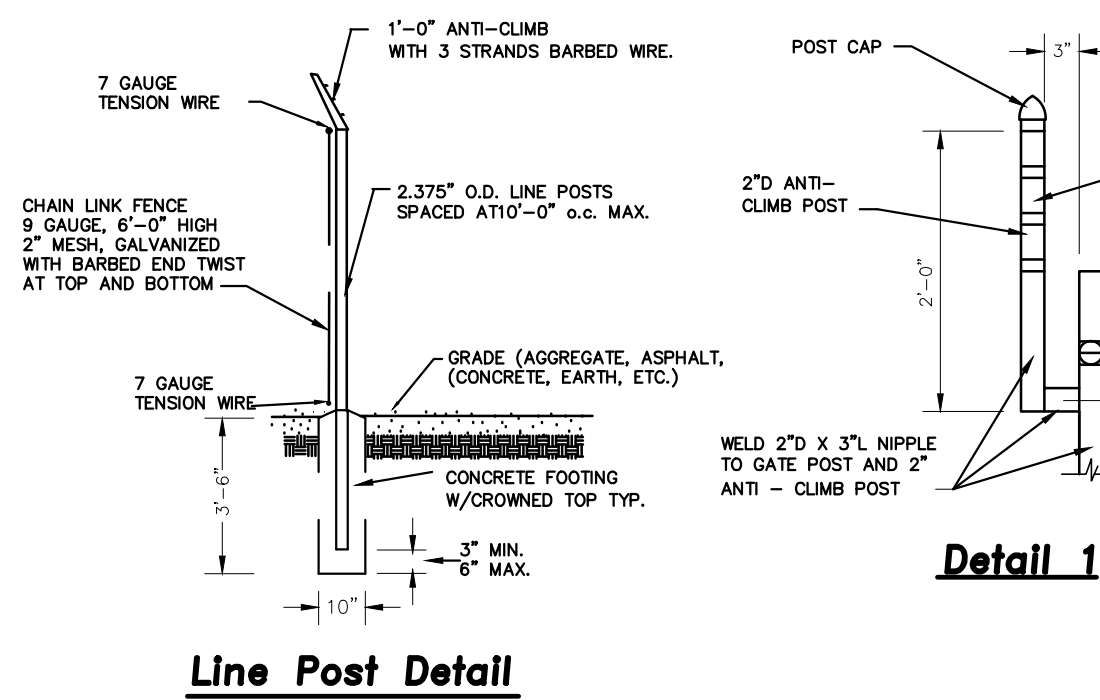
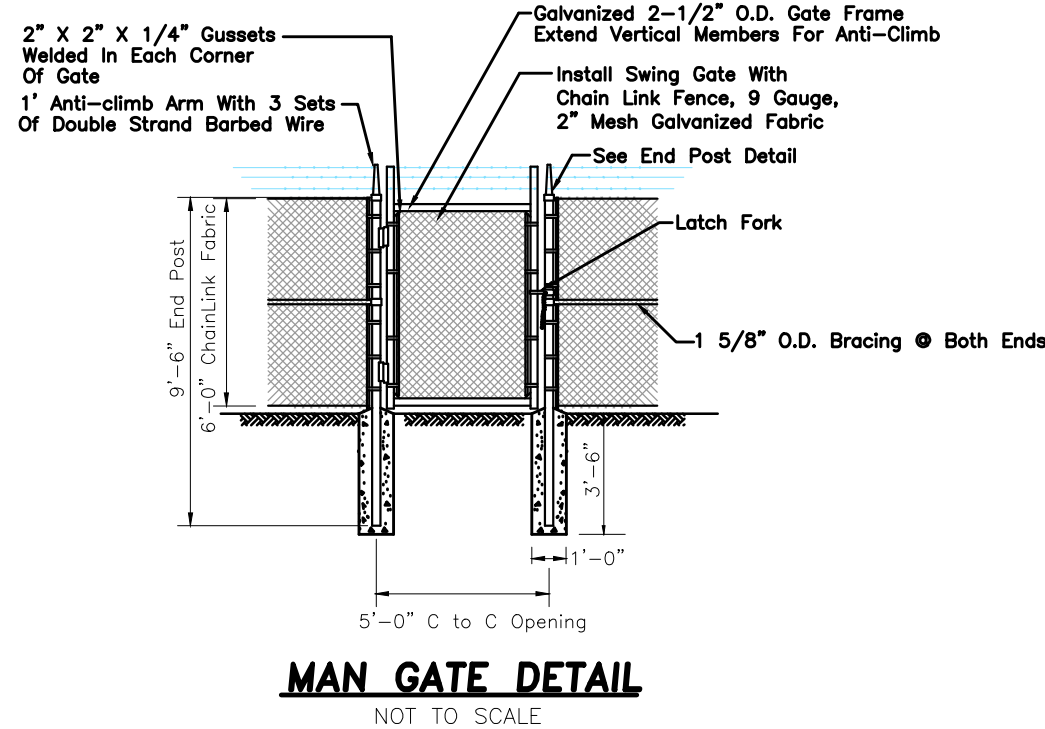
NOTES AND DETAILS

|                |           |
|----------------|-----------|
| DMVA PROJECT # |           |
| DTMB PROJECT # | 511/25039 |
| ARCH PROJECT # | 154601    |
| DRAWN BY       | EO        |
| DESIGNED BY    | MW        |
| JC/ENG BY      | SS        |





- FREESTANDING INSTALLATION NOTES**
- LEVELING PAD EXCAVATION SHOULD BE TO THE DEPTH AS NOTED ON THE TYPICAL SECTION FOR THE WALL, BUT AT LEAST 6" BELOW THE ELEVATION OF THE BOTTOM BLOCK IN THE WALL. WIDTH SHOULD BE A MINIMUM 23" WHICH WILL PROVIDE 6" IN FRONT OF AND BEHIND THE BOTTOM BLOCK.
  - EXISTING FOUNDATION SOIL SHALL COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR. FOUNDATION SOIL SHOULD BE FIRM, DRY AND FREE OF DEBRIS, STONES, ROOTS, ETC.
  - PLACE CRUSHED MDOT 21AA AGGREGATE LEVELING PAD COMPACTED TO 95% OF STANDARD PROCTOR.
  - WALLS SHALL HAVE THE BOTTOM COURSE BURIED ONE BLOCK BELOW PROPOSED FINISH GRADE. MINIMUM 6" BELOW GRADE.
  - PLACE THE BOTTOM COURSE OF THE WALL BLOCKS. TAKE CARE TO LEVEL THE BLOCKS BOTH PARALLEL AND PERPENDICULAR TO THE WALL. ADJACENT BLOCKS SHOULD BE PLACED SO THE TAPERS ON THE SIDES ARE GOING OPPOSITE DIRECTIONS TO PROVIDE UNIFORM WALL FACE WITH NO GAPS ON EITHER SIDE OF THE WALL.
  - PLACE SUCCESSIVE UNITS TO THE DESIRED WALL HEIGHT.
  - CONCRETE ADHESIVE IS REQUIRED BETWEEN ALL BLOCKS AND THE COPING LAYER OF THE FREESTANDING WALL. ADHESIVE SHALL SPECIFICALLY FORMULATED FOR OUTDOOR USE WITH CONCRETE RETAINING WALL PRODUCTS.



CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS

46777 WOODWARD AVENUE  
FONTANA, CA 92335  
TEL (949) 332-7931  
FAX (949) 332-8257

**ENGINEERS**

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

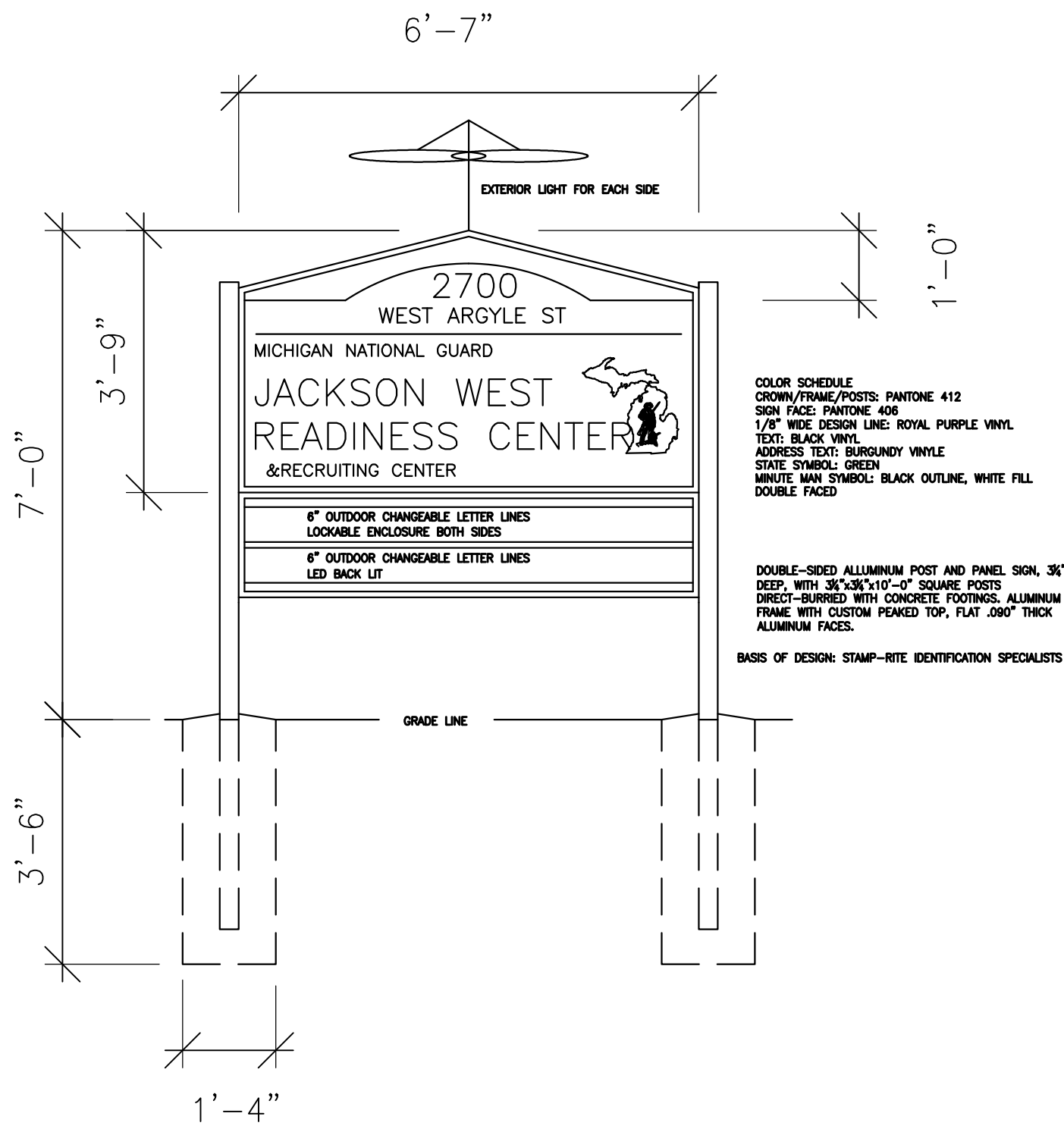
| 2025-01-15 | Bld Documents | 2025-10-01 | Site Plan (100%) | 2025-09-22 | Site Plan (90%) | 2025-08-01 | Site Plan (60%) | DATE | Review |
|------------|---------------|------------|------------------|------------|-----------------|------------|-----------------|------|--------|
|------------|---------------|------------|------------------|------------|-----------------|------------|-----------------|------|--------|

PROJECT DESCRIPTION  
**RENOVATE ARMORY**  
**JACKSON (WEST) ARMORY DEVELOPMENT**  
2700 W Argyle Street, Jackson, MI 49202

NOTES AND DETAILS

|                |          |                |        |    |    |    |
|----------------|----------|----------------|--------|----|----|----|
| DWVA PROJECT # | 51129259 | ARCH PROJECT # | 154001 | EO | MW | SS |
| DRAWN BY       |          | DESIGNED BY    |        |    |    |    |
| JC             |          | JC             |        |    |    |    |

C9



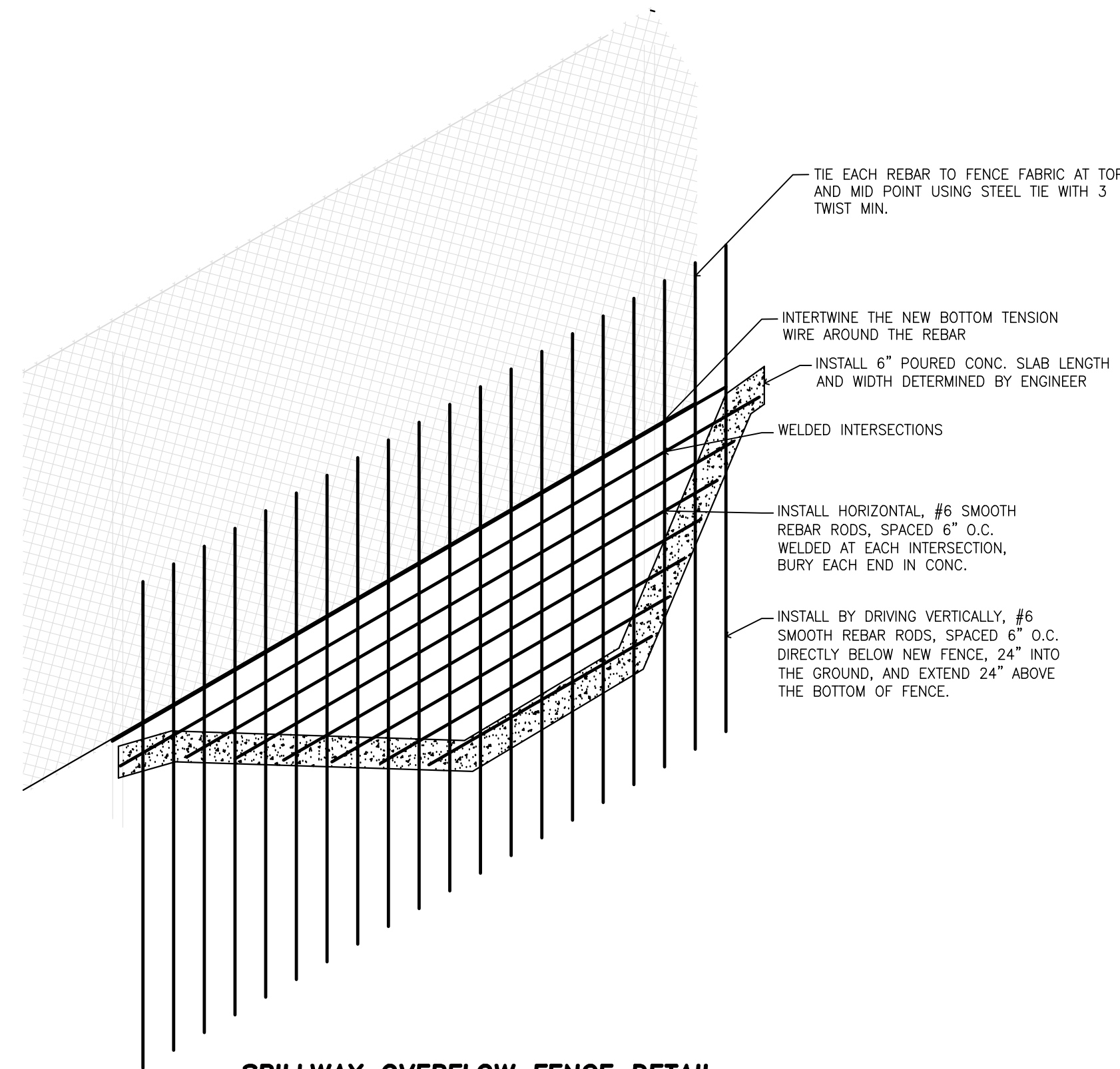
**ROAD SIGN**  
NOT TO SCALE

\*\* THE CONTRACTOR SHALL INSTALL GSA PERIMETER SIGNS PROVIDED BY DMVA FOR ALL NEW FENCING AND GATES. THE CONTRACTOR SHALL INSTALL SIGNS ON THE SECURE SIDE OF THE FENCING WITH NOMENCLATURE SHOWN TO THE ROAD SIDE OF THE FENCING. THE SIGNS SHALL BE POSTED AT INTERVALS OF NO MORE THAN 100 FEET AND ON ALL NEW GATES. FASTEN WITH HDG RINGS ON 4 CORNERS.

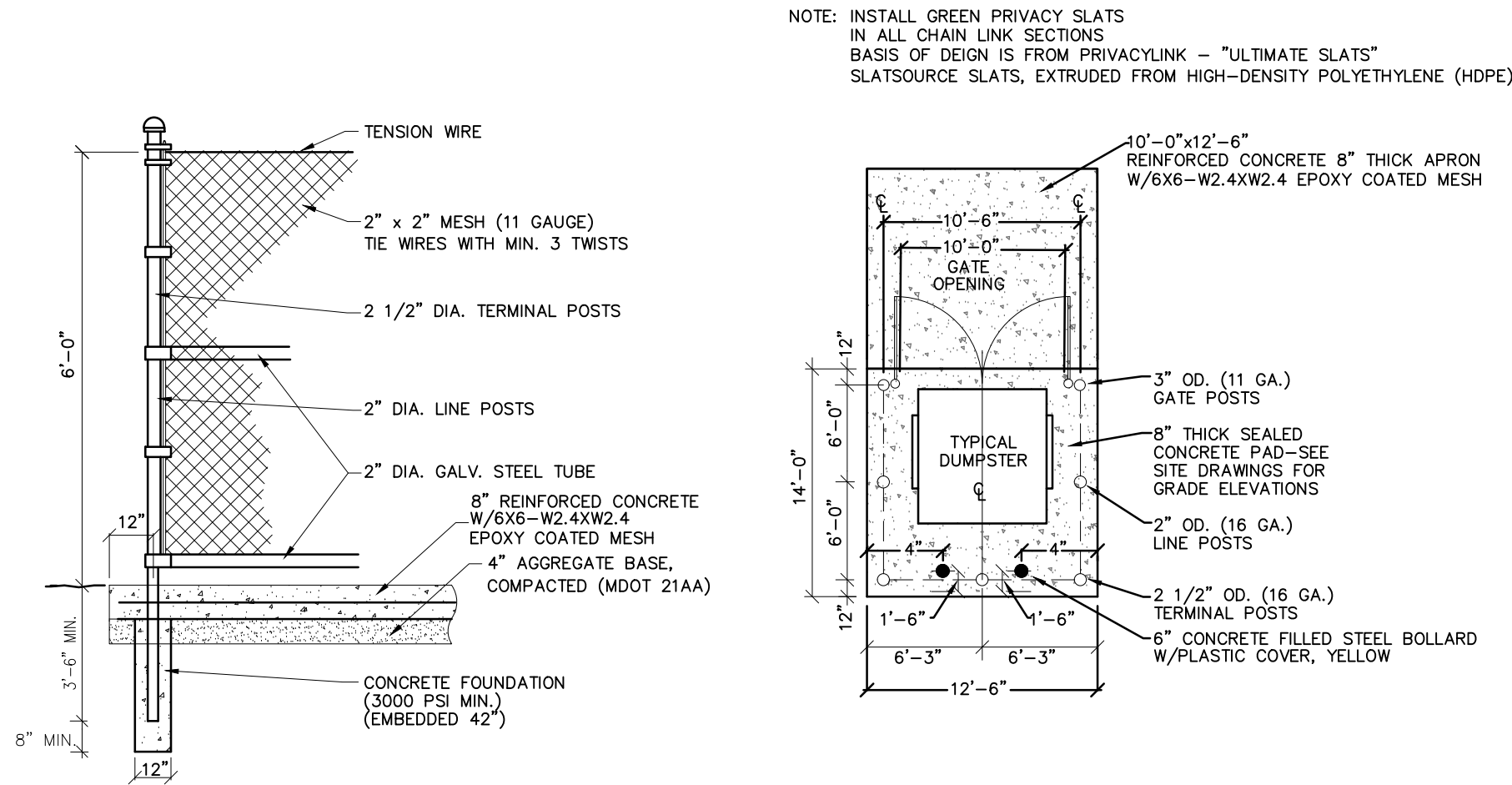
GSA SAFETY SIGN  
NONREFLECTORIZED SIGN INCLUDES  
A RED, WHITE AND BLUE SHIELD  
ON A CREAM BACKGROUND  
GSA NUMBER 9905-00-559-2971



**NO TRESPASSING SIGN**  
NOT TO SCALE



**SPILLWAY OVERFLOW FENCE DETAIL**  
NOT TO SCALE



**DUMPSTER ENCLOSURE SECTION**  
(6 FEET HIGH W/GALVANIZED FENCE)

CIVIL ENGINEER  
CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS

46777 WOODWARD AVENUE  
FONTANA, CA 92335  
TEL: (949) 332-7931  
FAX: (949) 332-8257

**ENGINEERS**

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
STATE FACILITIES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM P. LACH, RA, DIRECTOR

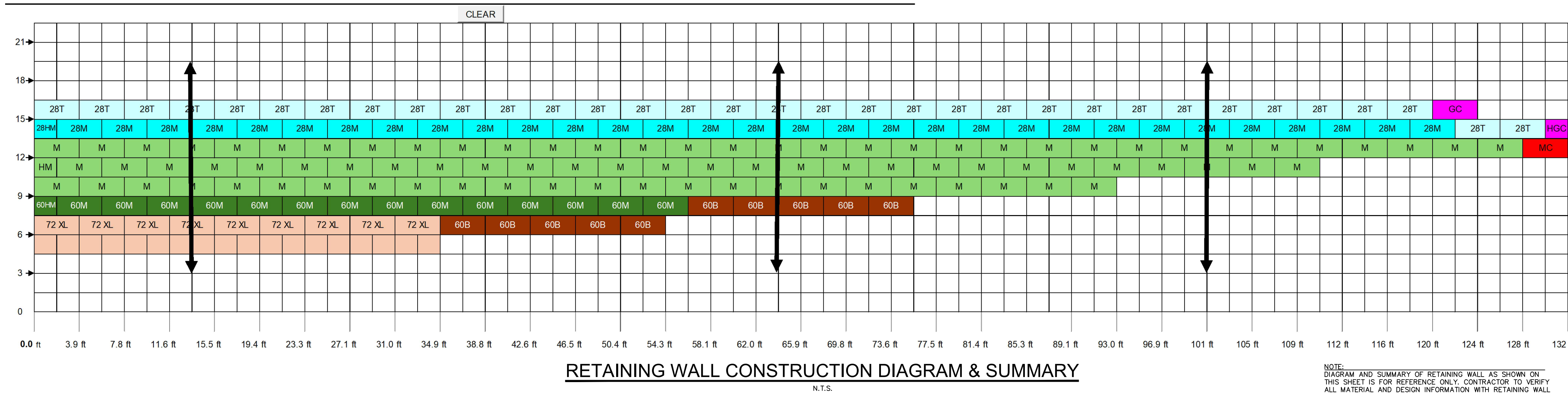
| DATE       | REVIEW           |
|------------|------------------|
| 2025-01-15 | Bid Documents    |
| 2025-10-01 | Site Plan (100%) |
| 2025-09-22 | Site Plan (90%)  |
| 2025-08-01 | Site Plan (60%)  |

PROJECT DESCRIPTION  
**RENOVATE ARMORY**  
**JACKSON (WEST) ARMORY DEVELOPMENT**  
2700 W Argyle Street, Jackson, MI 48202

NOTES & DETAILS

|                |          |
|----------------|----------|
| DMVA PROJECT # | 51125039 |
| DTMB PROJECT # | 154001   |
| ARCH PROJECT # | EO       |
| DRAWN BY       | MW       |
| DESIGNED BY    | SS       |

C10

[illegible]

NOTE:  
 DIAGRAM AND SUMMARY OF RETAINING WALL AS SHOWN ON  
 THIS SHEET IS FOR REFERENCE ONLY. CONTRACTOR TO VERIFY  
 ALL MATERIAL AND DESIGN INFORMATION WITH RETAINING WALL  
 SUPPLIER.

**φ = 28" | SILTY SAND OR CLAYEY SAND**

**LOAD CONDITION A**

**4 BLOCK HIGH SECTION**  
 (3) 28" (710 mm) Blocks  
 (1) 41" (1030 mm) Block

**NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE**

**PRELIMINARY**  
 Professional Engineering Design  
 Required for Construction

**Setback = 1 1/2" (41 mm)**  
(3" Min. Batter Angle)

**Grade to drain surface water away from wall**

**Top block**

**Move blocks forward during installation to engage shear knobs (Typical)**

**Backfill per design requirements. Install in lifts and compact per project specifications.**

**φ = 28"**

**Infill stone (No. 57 or equivalent)**  
 Fill between adjacent blocks (all blocks)  
 Fill vertical core slot (PC blocks)  
 Stone to extend at least 12" (305 mm) behind blocks.

**Middle block (Typical)**

**Non-woven geotextile fabric (If specified by Engineer based on site soil conditions)**

**Drain (As specified by Engineer)**

**Solid bottom block**

**Leveling pad (As specified by Engineer)**

**5'-6" (1.68 m)**

**0'-4" (152 mm)**

**0'-4" (152 mm)**

**28" (710 mm)**

**28" (710 mm)**

**28" (710 mm)**

**41" (1030 mm)**

This drawing is for reference only. Preliminary determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wall stability.

|                     |                      |                                                     |
|---------------------|----------------------|-----------------------------------------------------|
| <b>DRAWN BY:</b>    | <b>TITLE:</b>        | <b>Preliminary Wall Section</b>                     |
| <b>APPROVED BY:</b> |                      | Silty Sand or Clayey Sand, φ = 28"                  |
| <b>DATE:</b>        |                      | No Live Load Surcharge, No Back Slope, No Toe Slope |
| <b>SHEET:</b>       | <b>FILE:</b>         |                                                     |
| 1 of 1              | A_28_B_41_72_cad.dwg |                                                     |

**REDI-ROCK®**

05461 US 31 SOUTH, CHAMBLEE, GA 30620  
 (404) 222-8400 or 800.333.3333 | [info@redi-rock.com](mailto:info@redi-rock.com)

**φ = 28° | SILTY SAND or CLAYEY SAND**

**LOAD CONDITION A**

**6 BLOCK HIGH SECTION**

(3) 28" (710 mm) Blocks

(2) 41" (1030 mm) Blocks

(1) 60" (1520 mm) Block

**NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE**

**PRELIMINARY**  
Professional Engineering Design  
*(Required for Construction)*

**Labels and Dimensions:**

- Grade to drain surface water away from wall
- Top block
- Move blocks forward during installation to engage shear knobs (Typical)
- φ = 28°
- Infill stone (No. 57 or equivalent)
- Fill between adjacent blocks (all blocks)
- Fill vertical cone-sill (PC blocks)
- Slope to extend at least 12" (305 mm) behind blocks.
- Non-woven geotextile fabric (If specified by Engineer based upon site soil conditions)
- Backfill per design requirements. Install in lifts and compact per project specifications.
- Middle block (Typical)
- Solid bottom block
- Drain (As specified by Engineer)
- Leveling pad (As specified by Engineer)
- Setback = 1 5/8" (41 mm) (0° Wall Backer Angle)
- 8'-6" (2.59 m)
- 0'-6" (152 mm)
- 1'-0" (305 mm)

**Design Notes:**

This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wall stability.

DESIGNED BY: C. Kruger

APPROVED BY: J. Johnson

DATE: June 10, 2015

SHEET: 1 of 1

**Preliminary Wall Section**

**Silty Sand or Clayey Sand, φ = 28°**

**No Live Load Surcharge, No Back Slope, No Toe Slope**

P.L.# A\_28\_B\_60\_108\_cad.dwg

**RED ROCK**

25411 US 31 SOUTH, CHARLEVILLE, MI 48729  
(517) 222-9400 ext 3032 • info@redrockmi.com  
800.362.2622

**φ = 28°**     **SILTY SAND OR CLAYEY SAND**

**LOAD CONDITION A**     NO LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

**12.0-FOOT (3.66 m) HIGH SECTION**  
 (3) 38" (10 mm) Blocks  
 2) 41" (1030 mm) Blocks  
 (1) 60" (1520 mm) Block  
 (1) 72" (1830 mm) XL Block

Setback = 1'50" (41 mm)  
 Top Blocks  
 (5° Vertical Batter Angle)

Grade to drain surface water away from wall  
 Top block

Backfill per design requirements. Install in lifts and compact per project specifications.

φ = 28°

Drainstone (AASHTO No. 57 or equivalent) to extend at least 12" (305 mm) behind 18" high blocks

Moves blocks forward during installation to engage shear knodes (typical)

Middle block (typical)

Non-woven geotextile fabric between adjacent blocks at face (required)

Non-woven geotextile fabric back of XL blocks and behind drainstone (if specified by Engineer based on site soil conditions)

Optional transition block to maintain consistent batter from XL to overlying blocks

Fill all void spaces in and between blocks with drainstone (ASTM No. 57 or equivalent)

Red-Rock XL Block (typical)

Gravity drain to outlet (as specified by Engineer)

Leaving slab (as specified by Engineer)

Setback = 3'7" (83 mm)  
 XL Block  
 (5° Vertical Batter Angle)

1'10" (3.35 m)

1'10" (305 mm)

1'10" (305 mm)

This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wet stability.

DESIGN BY: N. Lindvall  
 APPROVED BY: J. Johnson  
 DATE: May 7, 2019  
 SHEET: 1 of 1

TITLE:  
**Preliminary Wall Section**  
 Silty Sand or Clayey Sand, φ = 28°  
 No Live Load Surcharge, No Back Slope, No Toe Slope

F.I.E.: A\_28\_XL\_144\_cad.dwg

**RED ROCK®**  
 (5641 US 31 SOUTH, CHAMBLISS, AL 36020)  
 (205) 225-6400 or 800.1.888.736 • [engineering@red-rock.com](mailto:engineering@red-rock.com)  
[www.red-rock.com](http://www.red-rock.com)



**NF**  
ENGINEERS

**CIVIL ENGINEER**

---

**CIVIL ENGINEERS  
LAND SURVEYORS  
LAND PLANNERS**

4677 WOODWARD AVENUE  
PONTIAC, MI 48342-3032  
TEL. (248) 861-2400  
FAX. (248) 332-8257

|            |                  |        |
|------------|------------------|--------|
|            |                  |        |
| 2026-01-15 | Bid Documents    |        |
| 2025-10-01 | Site Plan (100%) |        |
| 2025-09-22 | Site Plan (90%)  |        |
| 2025-08-01 | Site Plan (60%)  |        |
| DATE       |                  | Review |

PROJECT DESCRIPTION

**RENOVATE ARMORY  
JACKSON (WEST) ARMORY DEVELOPMENT**

2700 W Argyle Street, Jackson, MI 49202

|                |          |
|----------------|----------|
| DMVA PROJECT # | 51125090 |
| DTMB PROJECT # | 154601   |
| ARCH PROJECT # | 154601   |
| DRAWN BY       | EQ       |
| DESIGNED BY    | MW       |
| JOE/ENG BY     | SS       |

C11