

# TOWN OF INDIAN HEAD CHARLES COUNTY, MARYLAND

## INDIAN HEAD - TRAILHEAD RESTROOM

### MARCH 2022

FUNDED IN PART BY A GRANT FROM - STATE HIGHWAY AUTHORITY, TRANSPORTATION ALTERNATIVE PROGRAM

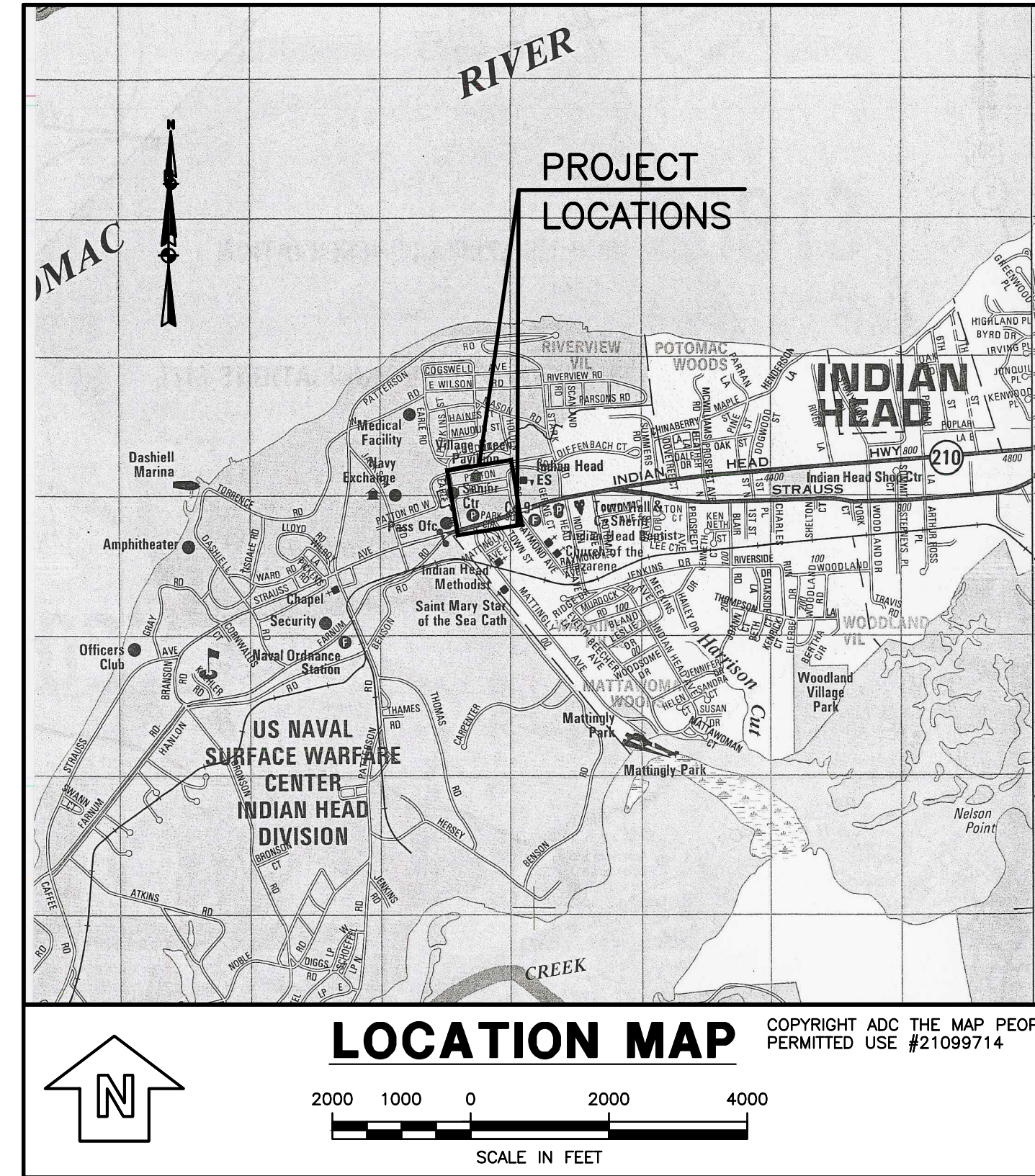
CONTRACT NO. CH257B51  
FAP NO. AC-TAP-3(871)E

### GENERAL NOTES

- THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A PICNIC SHELTER AND RESTROOM STRUCTURE FOR THE CONVENIENCE OF HIKERS AND BIKERS USING THE TOWN OF INDIAN HEAD RAIL TRAIL AND VISITING THE TOWN OF INDIAN HEAD AT VILLAGE GREEN PARK.  
THE USE AND OCCUPANCY CLASSIFICATION FOR A PICNIC SHELTER/RESTROOM BUILDING IS A-3.  
THE TYPE OF CONSTRUCTION IS 3B.  
ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF INDIAN HEAD APPLICABLE BUILDING CODES (INTERNATIONAL BUILDING CODE (IBC)) AND AMERICANS WITH DISABILITIES ACT.  
THE DESIGN OCCUPANCY FOR THE STRUCTURE IS 100 WOMEN 100 MEN.
- | MIN NO. OF WC REQUIRED  |        | NO OF WC PROVIDED |        | MIN NO. OF LAV. REQUIRED |        | NO OF LAV. PROVIDED |        |
|---|--------|-------------------|--------|--------------------------|--------|---------------------|--------|
| MALE  | FEMALE | MALE              | FEMALE | MALE                     | FEMALE | MALE                | FEMALE |
| 2   | 3      | 2+                | 4      | 1                        | 1      | 2                   | 2      |
| NOTE: 1-SERVICE SINK AND 1-WATER FOUNTAIN ARE REQUIRED AND PROVIDED |        |                   |        |                          |        |                     |        |
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN AN APPROXIMATE WAY FOR INFORMATION A GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID STRUCTURES BEFORE COMMENCING THE WORK. CALL MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS IN ADVANCE OF WORK.
  - THE CONTRACTOR SHALL COORDINATE HIS WORK SCHEDULE WITH THE TOWN OF INDIAN HEAD. THE TOWN SHALL HAVE FINAL AUTHORITY ON THE CONTRACTOR'S WORK SCHEDULE.
  - EXISTING UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY, BY TEST PITS, IF NECESSARY, ALL LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY UTILITY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO EXPENSE TO THE TOWN OR THE ENGINEER, AND REPAIRED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER.
  - ARRO CONSULTING, INC. AND TOWN OF INDIAN HEAD ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S UTILIZATION OF WORKERS, MATERIALS, EQUIPMENT OR SAFETY MEASURES IN THE PERFORMANCE OF ANY WORK ON THIS PROJECT. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
  - SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO ARRIVE AT AN ACCEPTABLE RESOLUTION.
  - SHOULD THE CONTRACTOR WISH TO DEVIATE FROM THE APPROVED SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL FORMULATE A SEDIMENT AND EROSION CONTROL PLAN AND SUBMIT SAME TO THE TOWN AND CHARLES COUNTY SOIL CONSERVATION DISTRICT FOR PRIOR APPROVAL. ALL SEDIMENT CONTROL WORK SHALL BE IN ACCORDANCE WITH THE "2011 MARYLAND STANDARD SPECIFICATIONS FOR SOIL EROSION CONTROL", LATEST EDITION, PUBLISHED JOINTLY BY THE MDE WATER RESOURCES ADMINISTRATION, NATURAL RESOURCES CONSERVATION SERVICE, AND THE STATE SOIL CONSERVATION COMMITTEE.
  - THE CONTRACTOR SHALL RESTORE ALL DAMAGE TO ROADS, GRASS AREAS, SIDEWALKS, PAVING, CURB & GUTTER, AND GRAVEL AREAS UPON COMPLETION OF WORK AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND/OR CLEANING UP DUST AND MUD ON ALL ROADS DUE TO VEHICLES ARRIVING AND LEAVING THE JOB SITE AS PART OF THIS WORK.
  - IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
  - THE SOILS ON THE SITE ARE BELTSVILLE SILT LOAM, HYDRAULIC SOIL GROUP C.
  - OPERATING CONTROLS FOR SWITCHES, SOAP DISPENSERS, BABY CHANGING STATIONS SHALL BE NO MORE THAN MAXIMUM HEIGHT OF 48 INCHES.
  - INSTALL SIGNS IDENTIFYING MENS ROOM, WOMENS ROOM AND STORAGE ROOM ON EXTERIOR OF DOOR TOGETHER WITH BRAILLE IDENTIFICATION SIGNS AT REQUIRED HEIGHT. SIGNS TO BE APPROVED BY TOWN PRIOR TO ORDERING AND INSTALLATION BY CONTRACTOR.
  - PLUMBING LINES FOR WATER TO BE GRADED AND FIXTURES PROVIDED FOR DRAINAGE IN WINTER. PLUMBING LINES SHALL BE CONCEALED IN CHASE WALLS, UNDER FLOOR OR OVER CEILING. PIPING BEHIND WALLS AND OVER CEILING TO BE INSULATED TO PREVENT CONDENSATION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL REQUIRED PLUMBING AND ELECTRICAL PERMITS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS BY THE APPLICABLE CODE ENFORCEMENT OFFICIALS.
  - ALL DOOR HARDWARE TO BE ADA (AMERICANS WITH DISABILITIES ACT) APPROVED, LOCKABLE AND WITH DEAD BOLTS.
  - ALL NEW PLUMBING TO BE ADA APPROVED AND INSTALLED PER ADA GUIDELINES.
  - ALL EXPOSED WATER AND WASTE LINES UNDER LAVATORY SHALL BE ENCLOSED WITH "TRAP WRAP" BY BROCOR PRODUCTS, INC., SERIES 500, AND "FLIP TOP" COVER ON ANGLE STOP VALVES.
  - CONTRACTOR SHALL USE OFFSET GRID DRAIN FOR WHEELCHAIR LAVATORY, 4 1/2" OFFSET, 1 1/4" TAILPIECE, AMERICAN STANDARD MODEL #7723.018. (2 TOTAL).
  - URINAL SHALL BE WALL HUNG, ELONGATED FLUSH VALVE OPERATED WITH AMERICAN STANDARD ACCESSORIES. URINAL SHALL BE ADA COMPLIANT.
  - ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND ALL COSTS TO BE INCLUDED IN THE PROJECT LUMP SUM BID PRICE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ROCK EXCAVATION. SHOULD BORROW BACKFILL AND/OR TOPSOIL BE REQUIRED, THE CONTRACTOR SHALL SUPPLY AND INSTALL SAME AT NO ADDITIONAL COST TO THE TOWN OR ENGINEER.
  - ALL NUTS, BOLTS, AND WASHERS SHALL BE A307 AND SHALL BE GALVANIZED.
  - STRUCTURAL STEEL SHALL CONFORM TO A36.
  - ALL WASTE MATERIAL, INCLUDING EXCAVATED MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OFFSITE.
  - EARTH BENEATH CONCRETE SLAB AND FOUNDATION FOOTINGS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY, IN 8" MAXIMUM LIFTS ASTM D1557.
  - FOUNDATION:
    - FOOTING IS DESIGNED BASED ON AN ALLOWABLE SOIL PRESSURE EQUAL TO 2,500 PSF.
    - THE CONTRACTOR SHALL PROVIDE FOR ALL DEWATERING, SHORING, BRACING, ETC. REQUIRED TO PLACE FOUNDATIONS AS INDICATED.
    - IF FOUNDATION MATERIAL IS UNCOVERED AND DETERMINED NOT TO BE CAPABLE OF SUPPORTING THE PRESSURE INDICATED, THE UNDERLYING MATERIAL SHALL BE UNDERCUT UNTIL COMPETENT MATERIAL IS FOUND AND BACKFILLED WITH #57 AGGREGATE.
    - STRUCTURAL BACKFILL WHERE REQUIRED UNDER ANY STRUCTURAL FOUNDATIONS SHALL BE COMPACTED TO THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OF 100 PERCENT (ACCORDING TO ASHSTO T99C METHOD).
  - EROSION AND SEDIMENT CONTROL:
    - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED, AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.
  - CONTRACTOR SHALL INSTALL LINTELS ABOVE DOORS AND OPENINGS TO SUPPORT THE LOAD ABOVE.
  - CONSTRUCTING WATER AND SEWER LINES AND METERS FROM THE MAIN TO A POINT 5- FEET OUTSIDE OF THE PICNIC SHELTER/RESTROOM BUILDING SHALL BE AN ALTERNATE BID ITEM.
  - STANDARD SPECIFICATIONS BOOK, BOOK OF STANDARDS AND MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD): ALL WORK ON THIS PROJECT SHALL CONFORM TO LATEST APPROVED MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", REVISIONS THEREOF OR ADDITIONS THERETO, AS INDICATED IN THE PROJECT DESCRIPTION OF THE INVITATION FOR BIDS BOOK; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATIONS FOR BIDS BOOK, THE ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES" AND THE LATEST ADOPTED DMUTCD.
  - WHERE THE TWO SIDEWALKS MEET AND REQUIRE CHANGE OR DIRECTION, PROVIDE A LEVEL LANDING AREA. THE LANDING AREA WILL NEED TO BE THE WIDTH OF TWO PROPOSED SIDEWALKS AND MUST BE MAXIMUM 2% SLOPE IN BOTH DIRECTIONS.

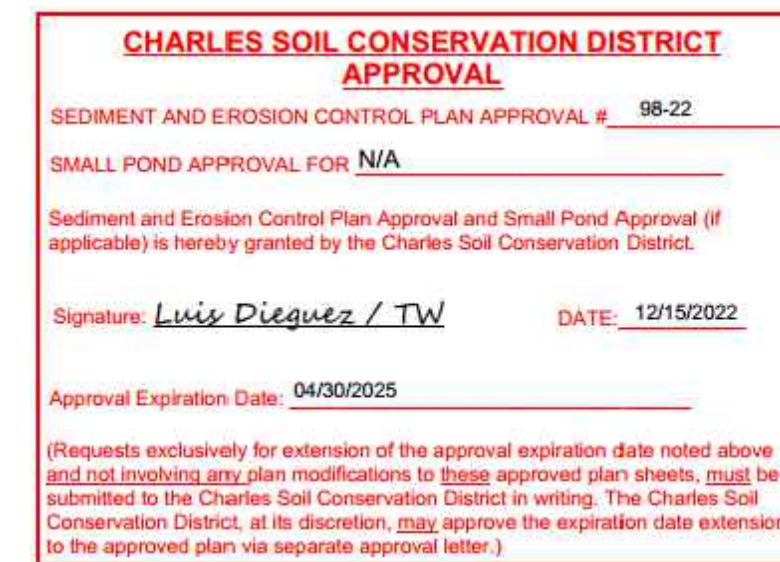
### DRAWING INDEX

SHT. NO.	TITLE	DWG. NO.
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9	PICNIC SHELTER/RESTROOM - STRUCTURAL PLAN & DETAILS	S-1
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12	MAINTENANCE OF TRAFFIC 2	MOT-2
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### TOWN OF INDIAN HEAD

BRANDON PAULIN \_\_\_\_\_ MAYOR  
 RON SITOULA \_\_\_\_\_ VICE-MAYOR  
 CASSANDRA GRUMBINE \_\_\_\_\_ COUNCILWOMAN  
 RYAN HICKS \_\_\_\_\_ TOWN MANAGER



**STANDARD STABILIZATION NOTE:**  
 FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, SEEDING FOR PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING. ONCE THE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUND COVER TO BE CONSIDERED ADEQUATELY STABILIZED.

**OWNER'S/DEVELOPERS CERTIFICATION**  
 I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, VEGETATIVE STABILIZATION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE (\*) AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT TO ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT COMPLIANCE INSPECTORS, CHARLES COUNTY INSPECTORS, AND THE REPRESENTATIVES OF THE CHARLES SOIL CONSERVATION DISTRICT.

OWNER/DEVELOPER SIGNATURE & DATE: Ryan Hicks 3/23/22  
 PRINTED NAME AND TITLE: RYAN HICKS, TOWN MANAGER  
 TELEPHONE NUMBER: 301-743-5511  
 ADDRESS: 4195 INDIAN HEAD HIGHWAY, INDIAN HEAD, MD 20640

PRINTED NAME AND CARD NUMBER (\*) OF ON-SITE RESPONSIBLE PERSONNEL: \_\_\_\_\_

**CONSULTANT CERTIFICATION**  
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR CURRENT REVISIONS THEREOF, AND THE DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT REGULATIONS.

MD P.E. LICENSE # 38561  
 MD LAND SURVEYOR LICENSE # \_\_\_\_\_  
 MD LANDSCAPE ARCHITECT # \_\_\_\_\_  
 NAME EDWARD J. VAN ARSDALE, PE  
 FIRM NAME ARRO CONSULTING, INC  
 STREET ADDRESS 201 THOMAS JOHNSON DR. STE. 207  
FREDERICK, MD 21702

**DISTURBED AREA QUANTITY (NOT FOR BIDDING PURPOSES)**  
 THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 0.24 ACRES. AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY 200 CUBIC YARDS OF EXCAVATION AND APPROXIMATELY 200 CUBIC YARDS OF FILL. (\*INCLUDES TRENCH EXCAVATION AND BACKFILL, NOT FOR BIDDING PURPOSES)

SIGNATURE: Edward J. Van Arsdale 10/24/23

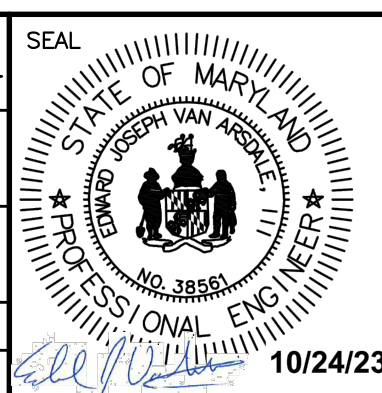
### ABBREVIATION/SYMBOLS

	SILT FENCE
	SUPER SILT FENCE
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE
	AT-GRADE INLET PROTECTION
	EXISTING ELEVATION & CONTOURS
	PROPOSED CONTOUR & ELEVATION
	NEW CONCRETE
	FENCE
	HANDICAP
	TREE
	SIGN
	MANHOLE
	CURB INLET PROTECTION
	FINISHED FLOOR
	ELEVATION

**CHARLES SOIL CONSERVATION DISTRICT APPROVAL**  
 SEDIMENT AND EROSION CONTROL PLAN NUMBER \_\_\_\_\_  
 SMALL POND APPROVAL NUMBER(S) \_\_\_\_\_  
 Sediment And Erosion Control Plan and Small Pond (if applicable) is hereby approved by the Charles Soil Conservation District.  
 Approval Signature/Date: \_\_\_\_\_  
 Approval expiration date: \_\_\_\_\_  
 (Requests exclusively for extension of the approval expiration date noted above and not involving any plan modifications to these approved plan sheets, must be submitted to the Charles Soil Conservation District in writing. The Charles Soil Conservation District at its discretion, may approve the expiration date extension to the approved plan via separate approval letter.)

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION								
0	ISSUED FOR BID								
E	AGENCY COMMENTS	02/02/16	JLW	RD					
D	AGENCY COMMENTS	11/13/13	AM	RD					
C	AGENCY COMMENTS	9/12/13	AM	RD					
B	CLIENT COMMENTS	3/21/13	AM	RD					
A	ISSUED TO CLIENT	2/18/13	AM	RD					
1	ADDED ADDITIONAL STOCKPILE AREA AND SILT FENCE	5/27/14	AM	RD					

EDWARD J. VAN ARSDALE, PE  
 RELEASED BY: \_\_\_\_\_  
 DESIGN: R.D. PARKS, P.E. CHECKED: \_\_\_\_\_  
 DRAWN: SAM CHECKED: \_\_\_\_\_  
 DATE: MARCH 2022 SURVEY DATE: \_\_\_\_\_  
 FIELD BOOK: \_\_\_\_\_



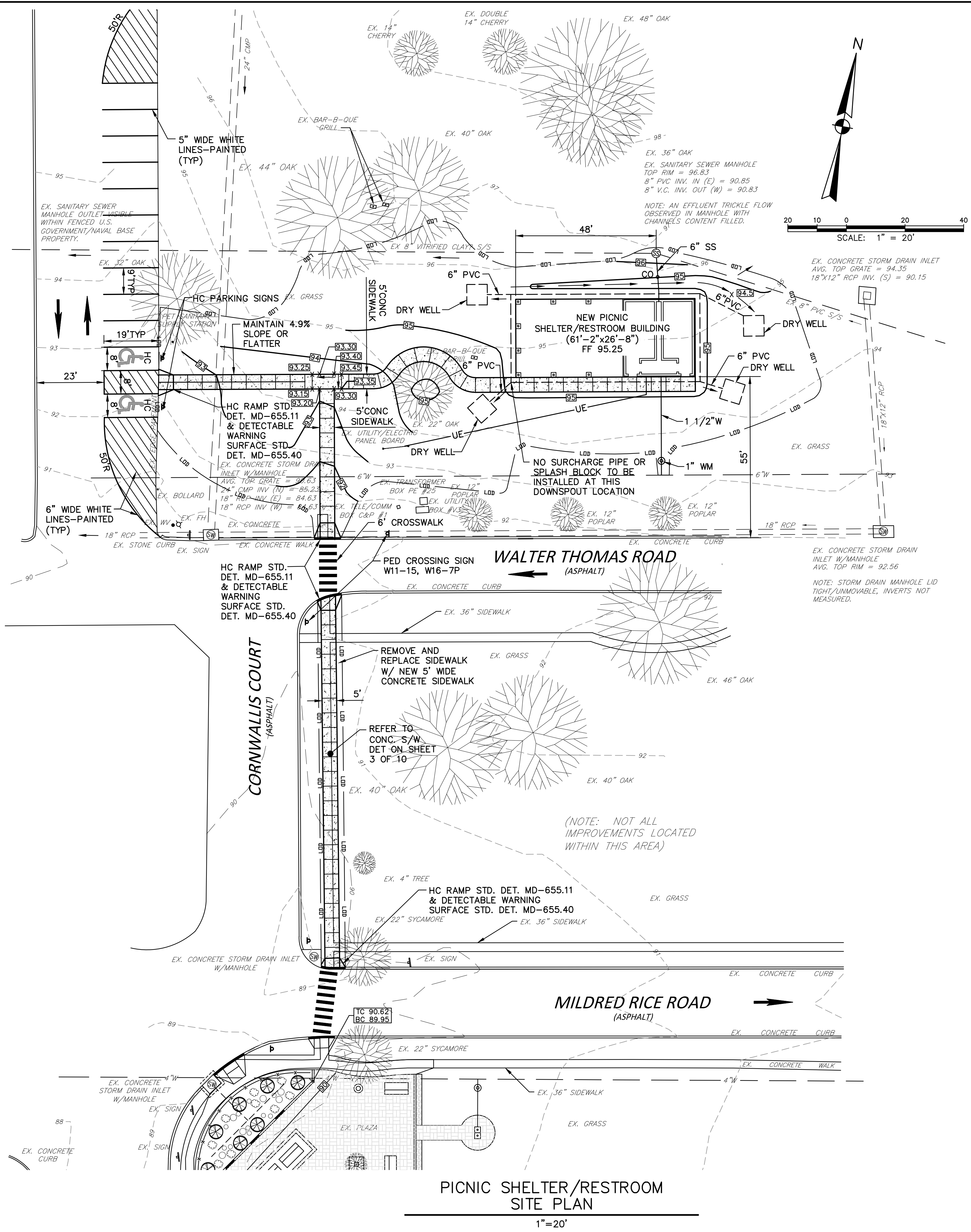
PROFESSIONAL CERTIFICATION  
 I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 38561  
 Expiration Date: 3/31/2024

CLIENT & PROJECT  
 TOWN OF INDIAN HEAD  
 4195 INDIAN HEAD HIGHWAY  
 INDIAN HEAD, MARYLAND, 20640  
 INDIAN HEAD RESTROOM FACILITY  
 INDIAN HEAD, CHARLES COUNTY, MARYLAND

**ARRO**  
 201 Thomas Johnson Drive, Suite 207  
 Frederick, Maryland 21702  
 Tel 301.791.1100

SCALE	TITLE	DWG. NO.
AS NOTED	TITLE SHEET, VICINITY MAP	C-ESD-1
PROJECT NO. 10611	SHEET NO. 1 OF 13	REV.





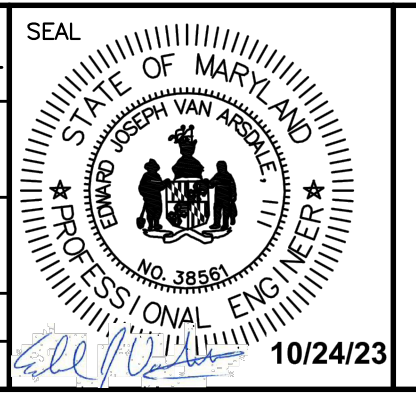
PICNIC SHELTER/RESTROOM  
SITE PLAN

1"=20'

NO	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION			
0	ISSUED FOR BID			
D	AGENCY COMMENTS	2/02/16	JLW	RDP
C	AGENCY COMMENTS	11/15/13	AM	RDP
B	CLIENT COMMENTS	3/21/13	AM	RDP
A	ISSUED TO CLIENT	2/18/13	AM	RDP

NO	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION			
0	ISSUED FOR BID			
D	AGENCY COMMENTS	2/02/16	JLW	RDP
C	AGENCY COMMENTS	11/15/13	AM	RDP
B	CLIENT COMMENTS	3/21/13	AM	RDP
A	ISSUED TO CLIENT	2/18/13	AM	RDP

EDWARD J. VAN ARSDALE, PE	CHECKED
DESIGN	
R.D. PARKS, P.E.	CHECKED
DRAWN	
SAM	
DATE	SURVEY DATE
MARCH 2022	FIELD BOOK



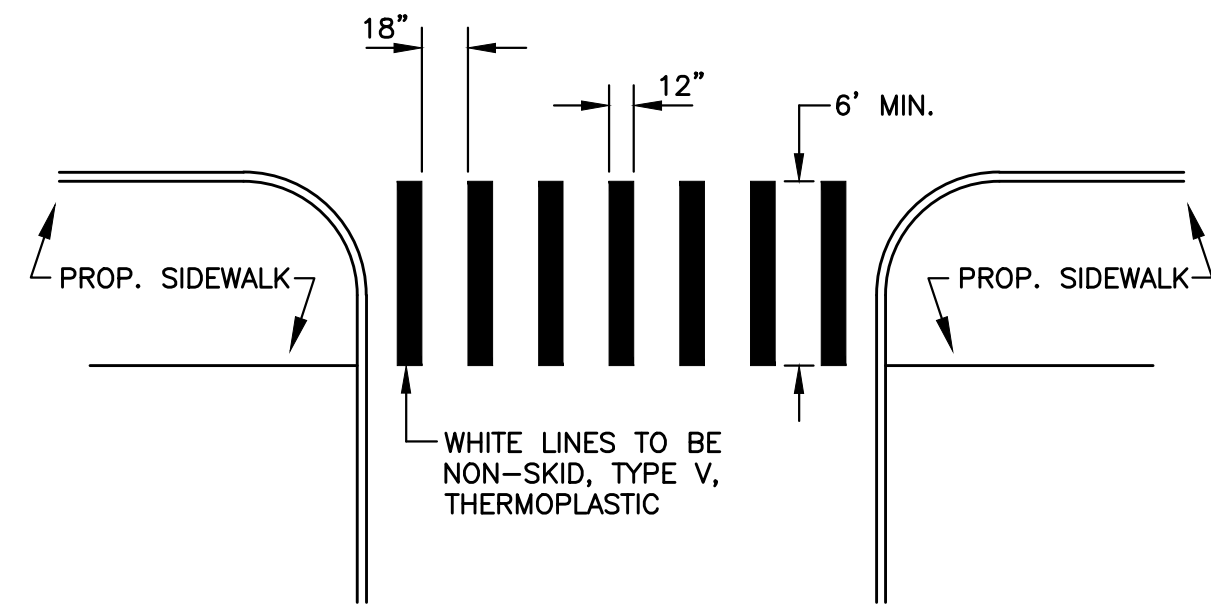
PROFESSIONAL CERTIFICATION  
I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 38561  
Expiration Date: 3/31/2024

CLIENT & PROJECT  
TOWN OF INDIAN HEAD  
4195 INDIAN HEAD HIGHWAY  
INDIAN HEAD, MARYLAND, 20640  
  
INDIAN HEAD RESTROOM FACILITY  
INDIAN HEAD, CHARLES COUNTY, MARYLAND



TITLE		SITE PLAN	
SCALE	AS NOTED	DWG. NO.	C-2
PROJECT NO.	10611	SHEET NO.	2 OF 13
REV.			

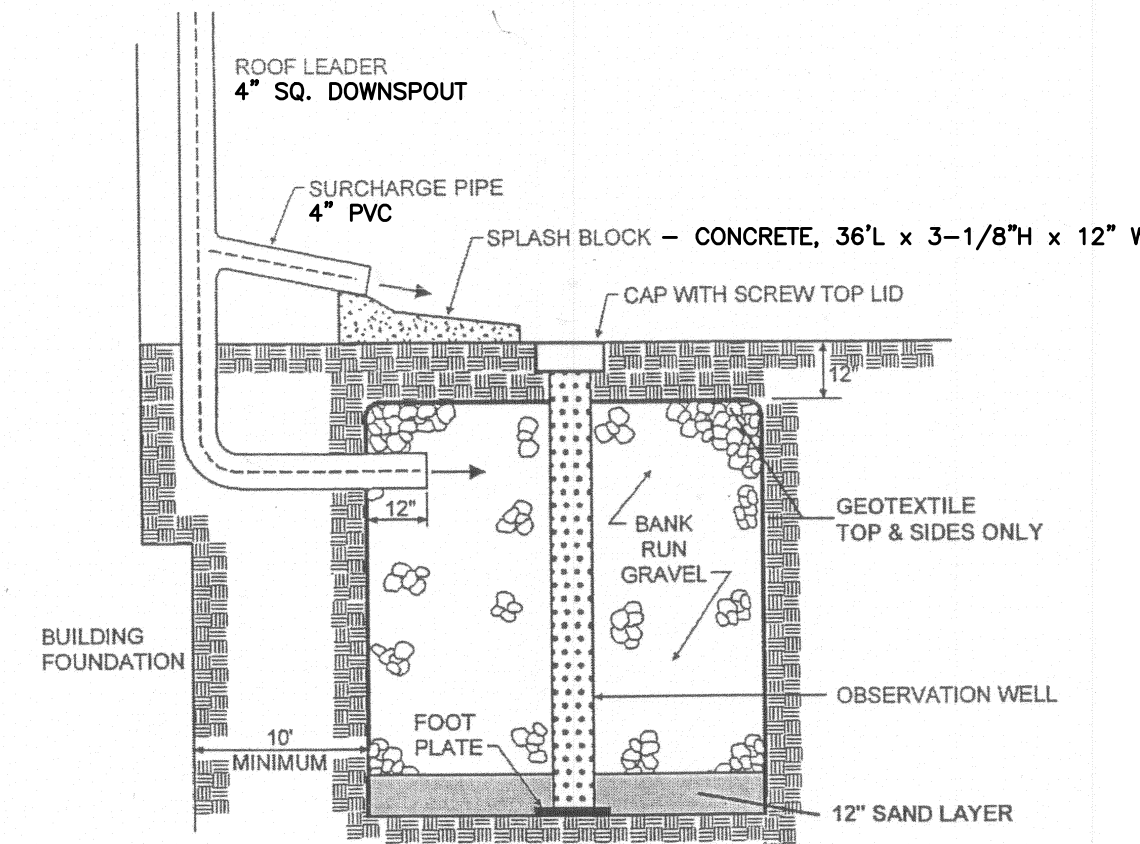




NOTES:  
1. ALL SIGNAGE AND PAVEMENT MARKINGS TO HAVE MATERIALS AND INSTALLATION PER THE MUTCD AND SHA STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION.

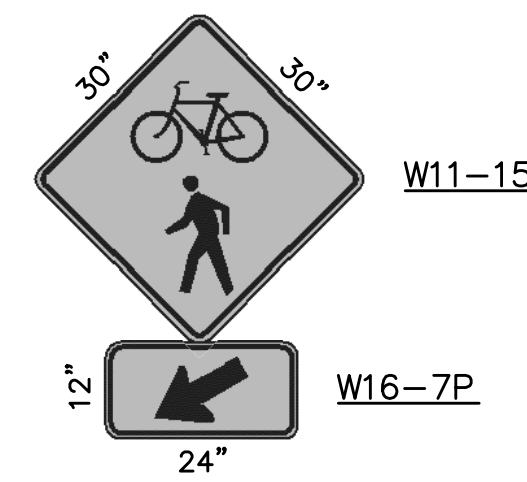
**TYPICAL CROSSWALK**

N.T.S.



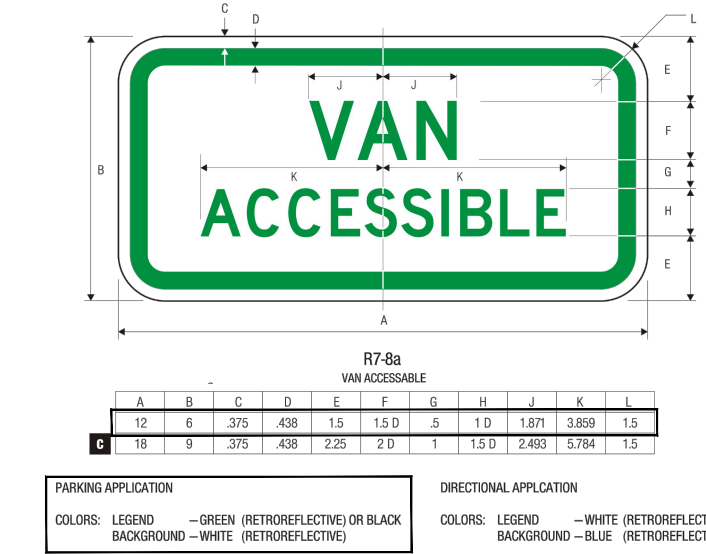
**DRY WELL DETAIL**

N.T.S.



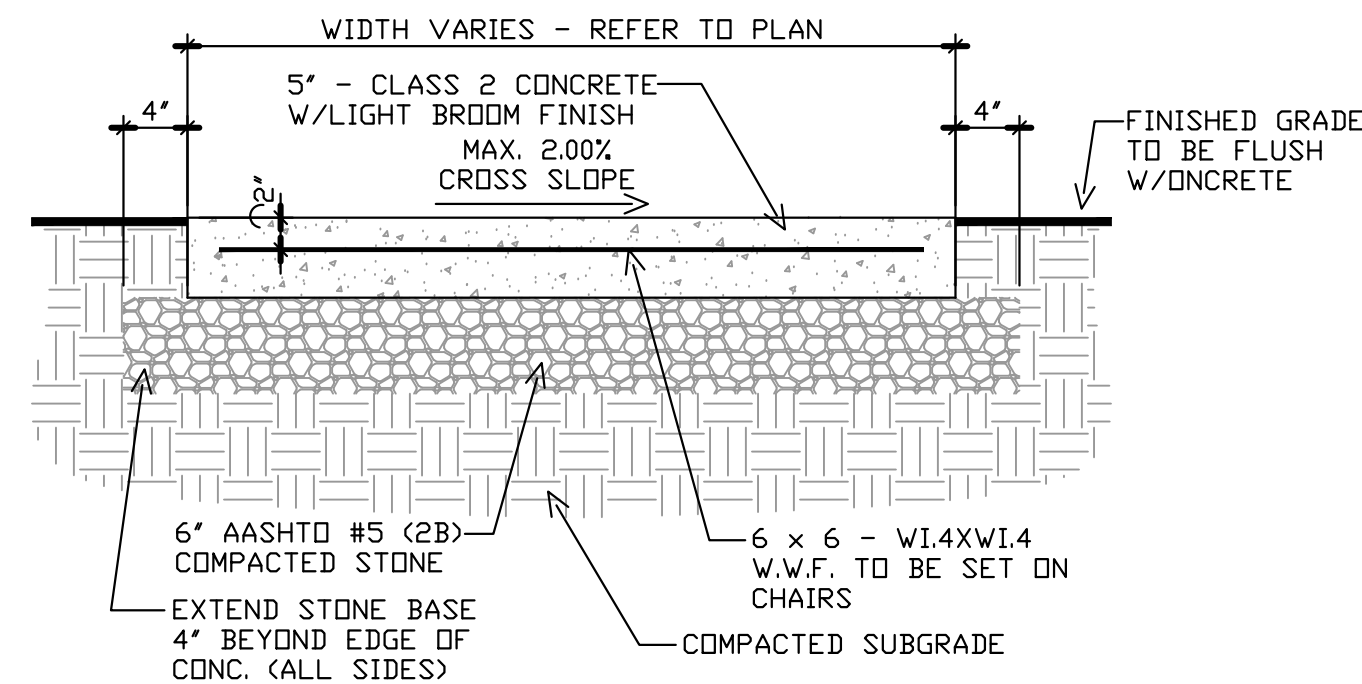
**PAVEMENT MARKING AND SIGNAGE LEGEND**

N.T.S.



**VAN ACCESSIBLE**

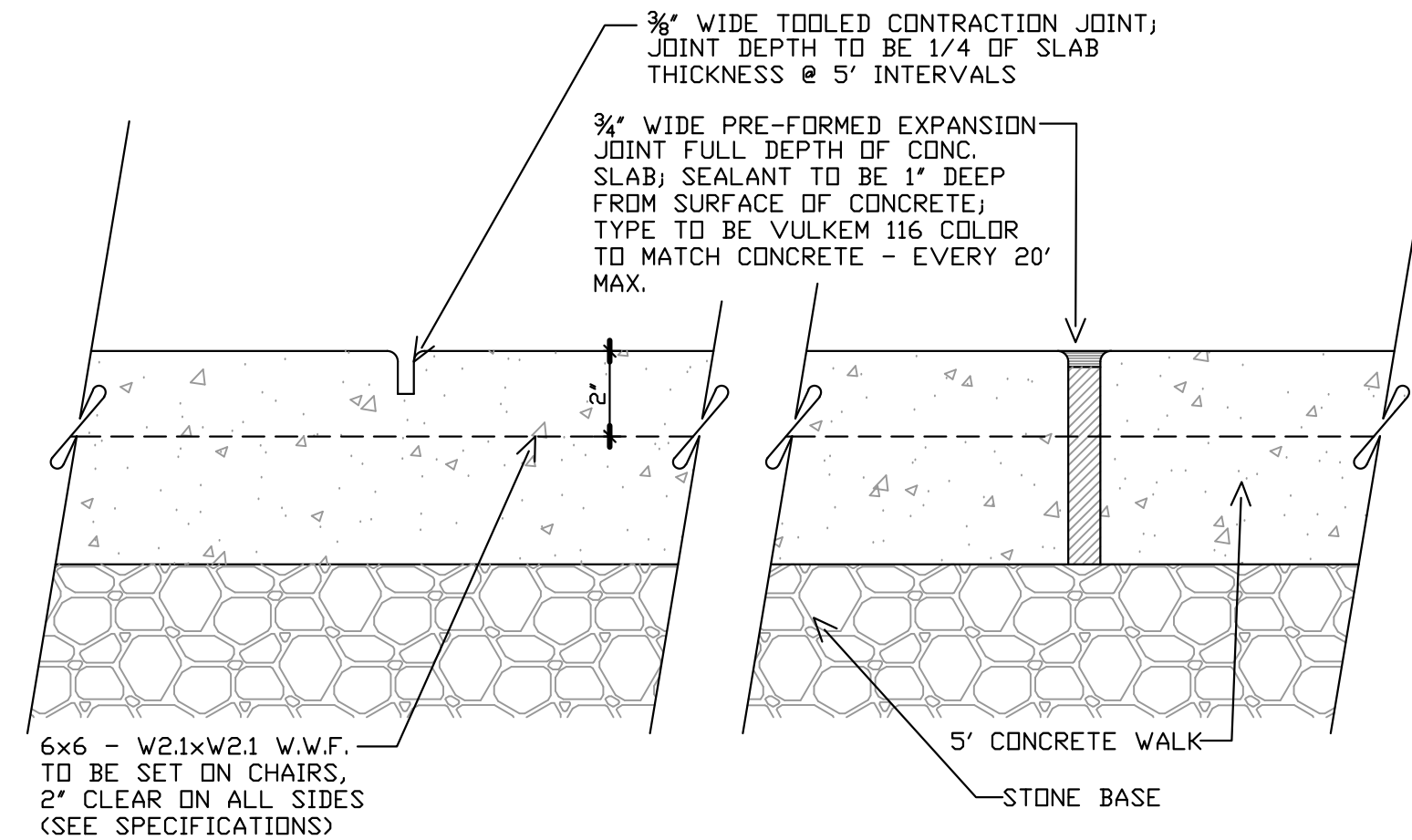
N.T.S.



NOTE:  
SAME DAY STABILIZATION WITH SEED AND MULCH IS REQUIRED FOR ALL DISTURBANCE ASSOCIATED WITH CONSTRUCTION OF THE CONCRETE SIDEWALK.

**CONCRETE WALKWAY**

N.T.S.



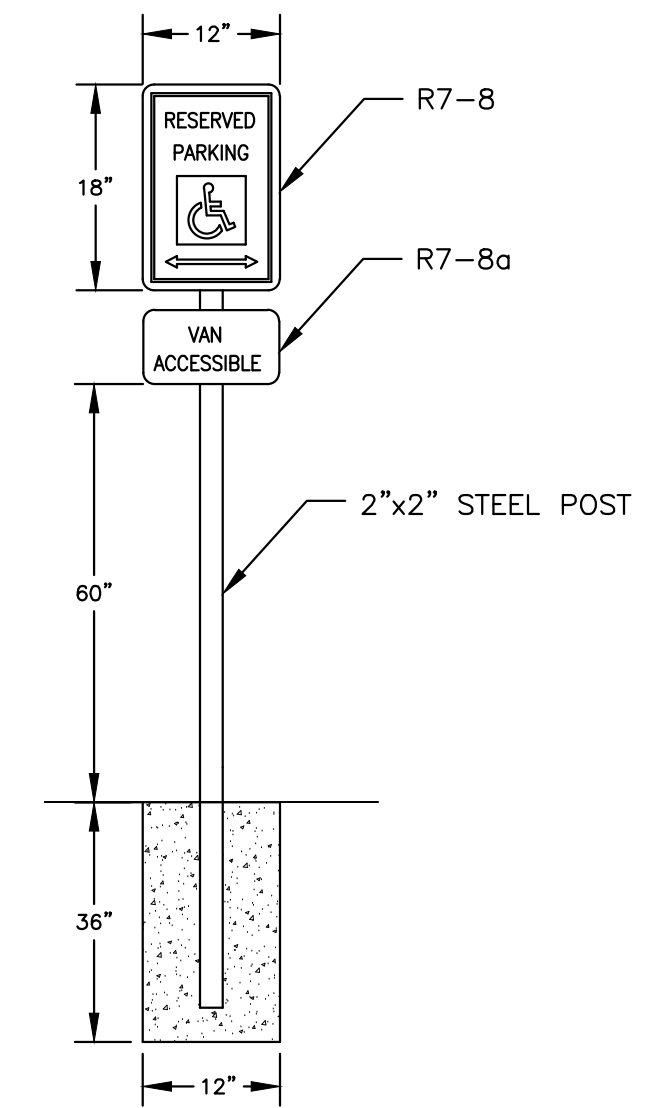
**CONCRETE CONTRACTION & EXPANSION JOINT**

N.T.S.



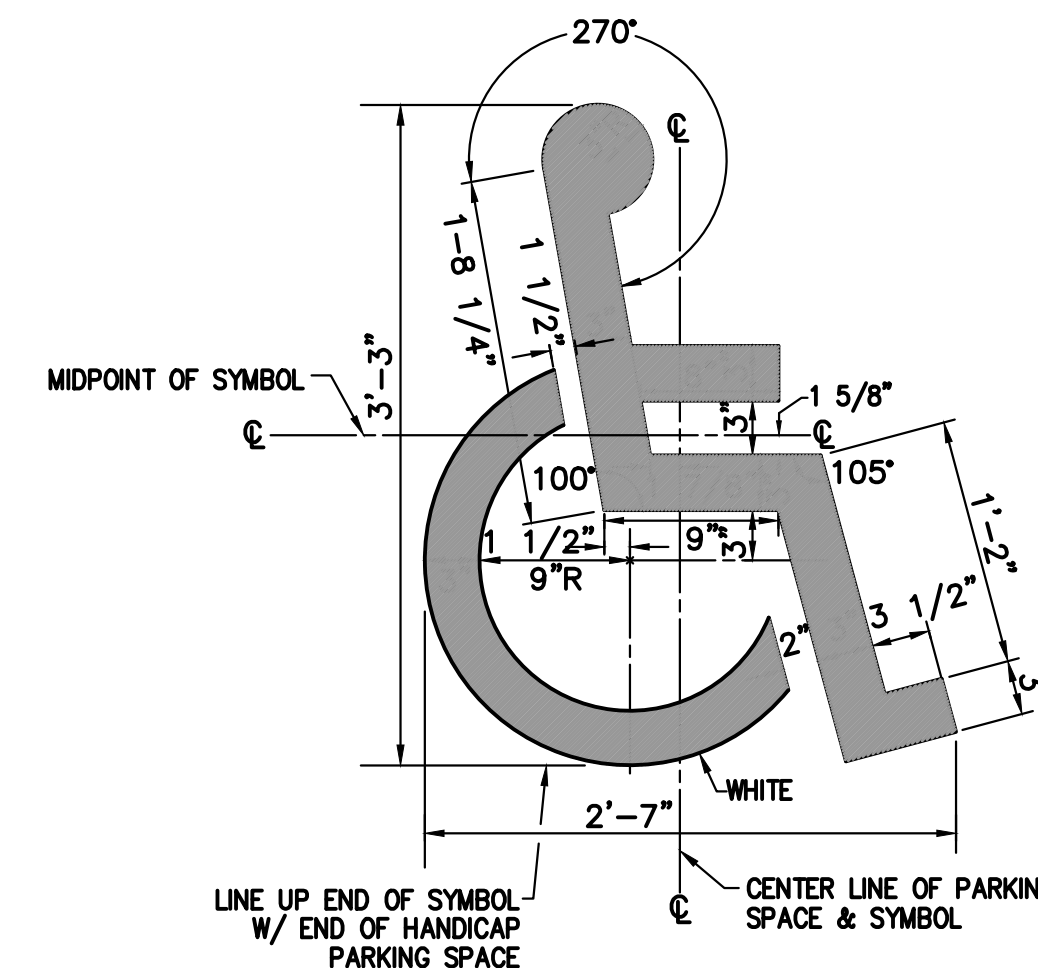
**NO PARKING**

N.T.S.



**RESERVED PARKING SIGN**

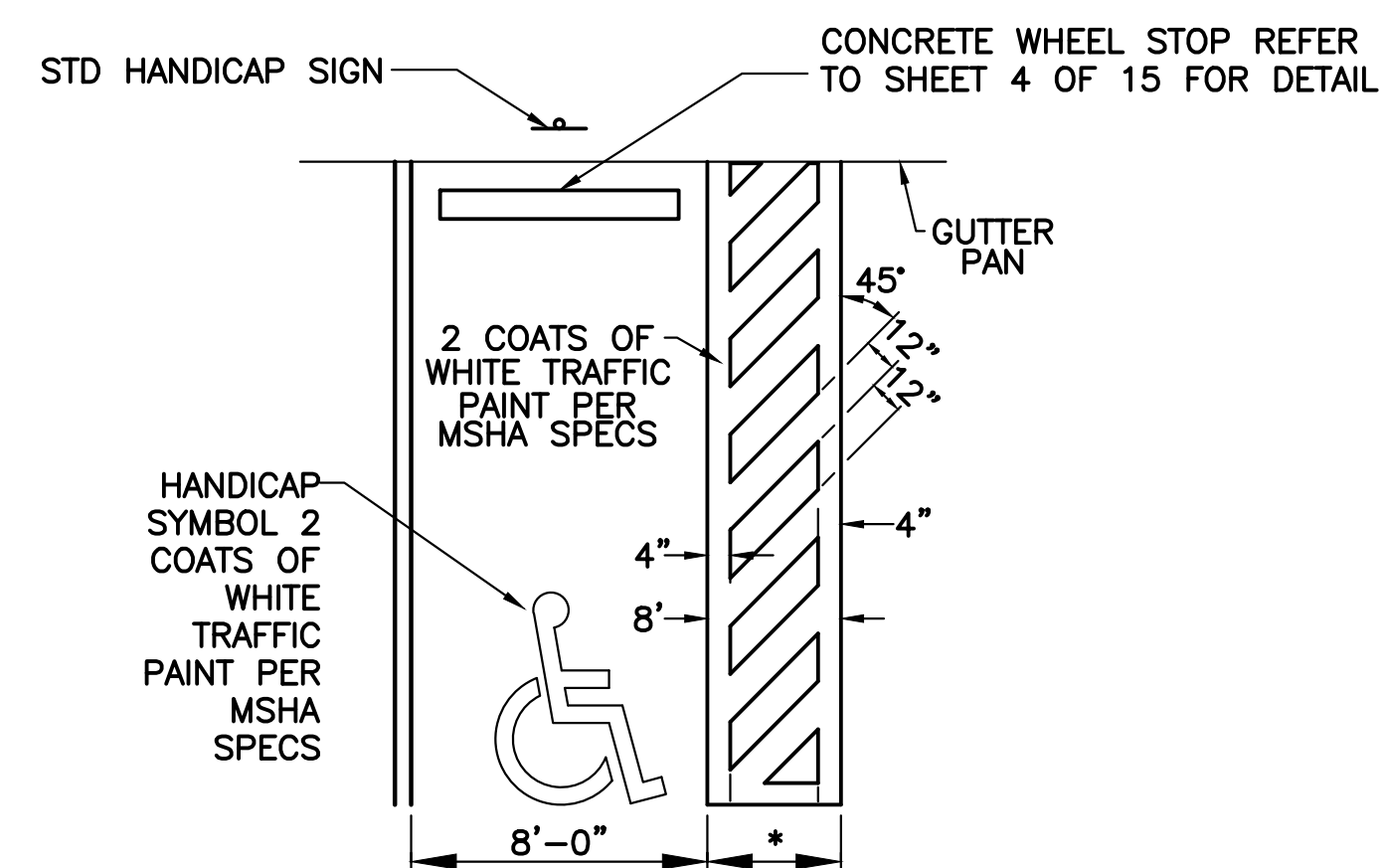
N.T.S.



NOTES:  
1. PLACE HEAD OF SYMBOL TOWARD CURB.  
2. ALL HANDICAP ACCESSIBLE PARKING STALLS SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL A.D.A. STANDARDS.

**HANDICAP ACCESS STENCIL LAYOUT**

NOT TO SCALE



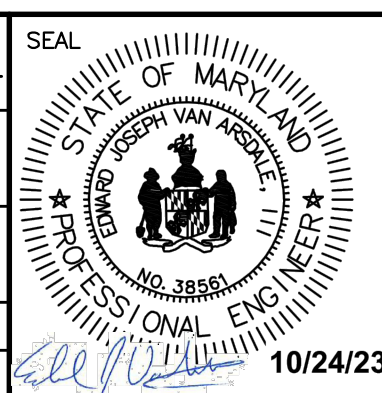
5'-0" FOR STANDARD HANDICAP SPACE  
\*8'-0" FOR VAN ACCESSIBLE HANDICAP SPACE  
ALL HANDICAP ACCESSIBLE PARKING STALLS AND SIDEWALK RAMPS SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL A.D.A. STANDARDS.

**HANDICAP PARKING STALL LAYOUT**

NOT TO SCALE

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
					1	ISSUED FOR CONSTRUCTION			
					0	ISSUED FOR BID			
					D	CLIENT COMMENTS	02/02/16	JLW	RD
					C	CLIENT COMMENTS	11/13/13	AM	RD
					B	CLIENT COMMENTS	3/21/13	AM	RD
					A	ISSUED TO CLIENT	2/18/13	AM	RD

EDWARD J. VAN ARSDALE, PE	CHECKED
DESIGN BY	CHECKED
R.D. PARKS, P.E.	CHECKED
DRAWN BY	SURVEY DATE
SAM	FIELD BOOK
DATE	
MARCH 2022	



PROFESSIONAL CERTIFICATION  
I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 38561, Expiration Date: 3/31/2024

CLIENT & PROJECT  
TOWN OF INDIAN HEAD  
4195 INDIAN HEAD HIGHWAY  
INDIAN HEAD, MARYLAND, 20640  
  
INDIAN HEAD RESTROOM FACILITY  
INDIAN HEAD, CHARLES COUNTY, MARYLAND

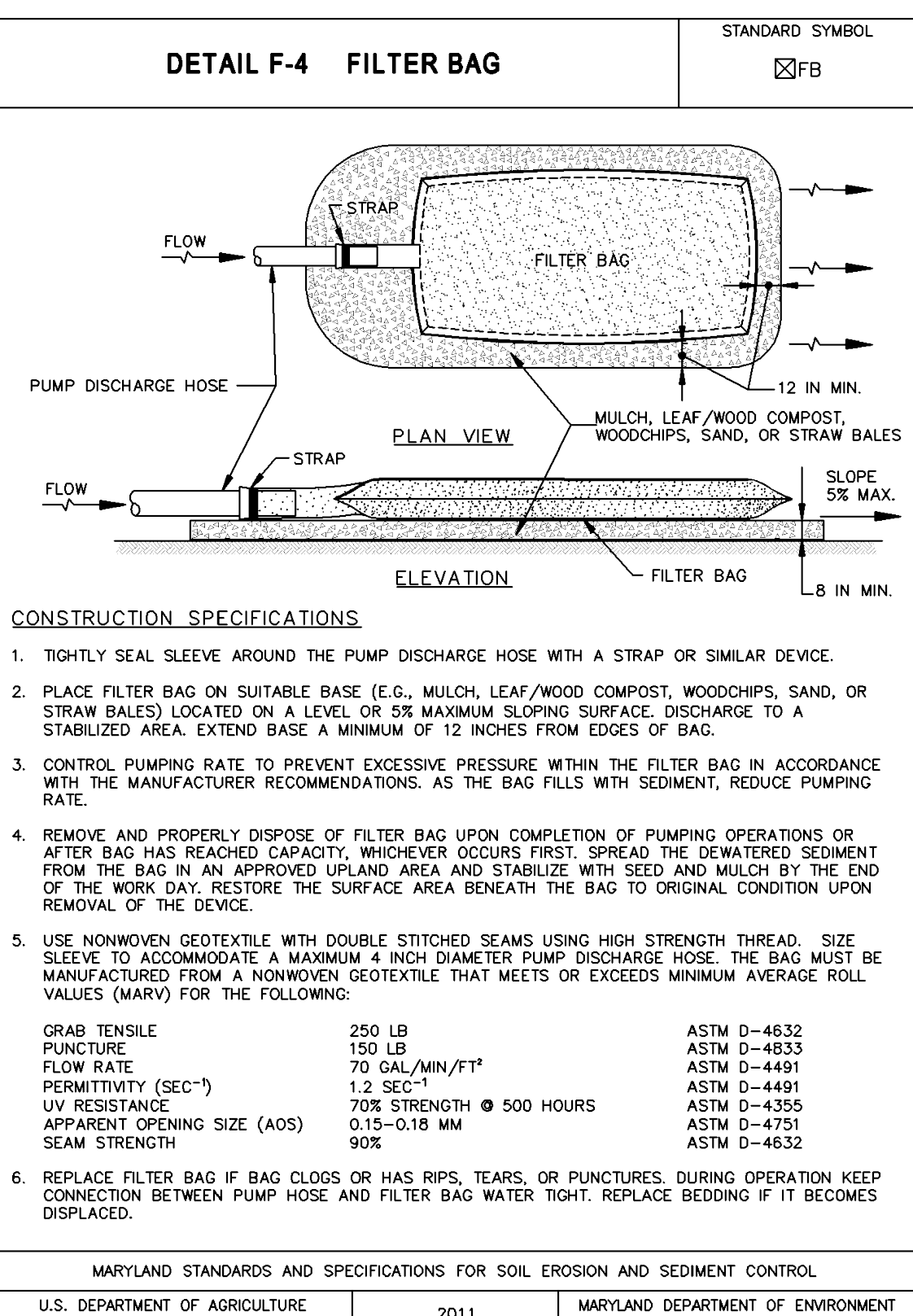
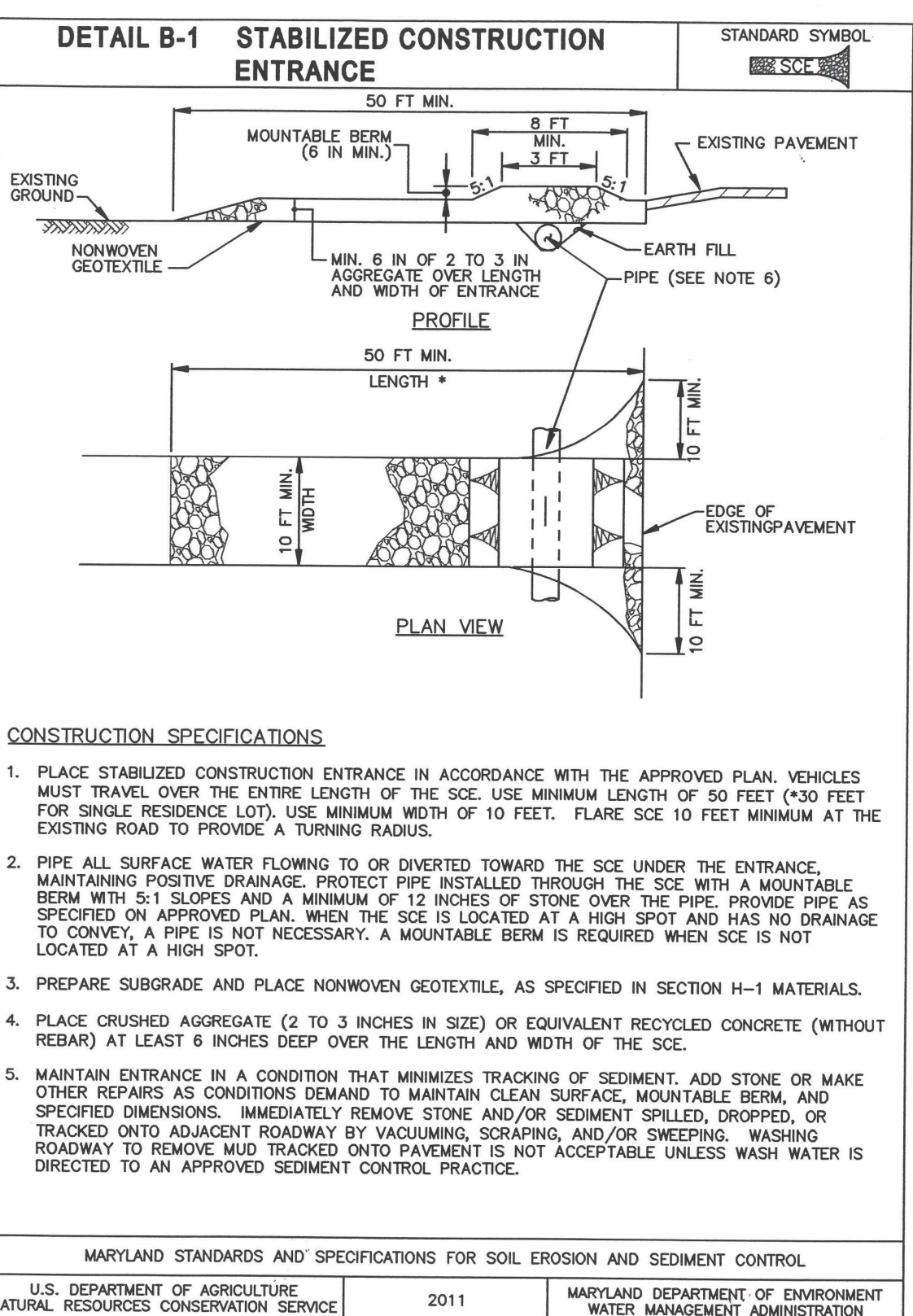
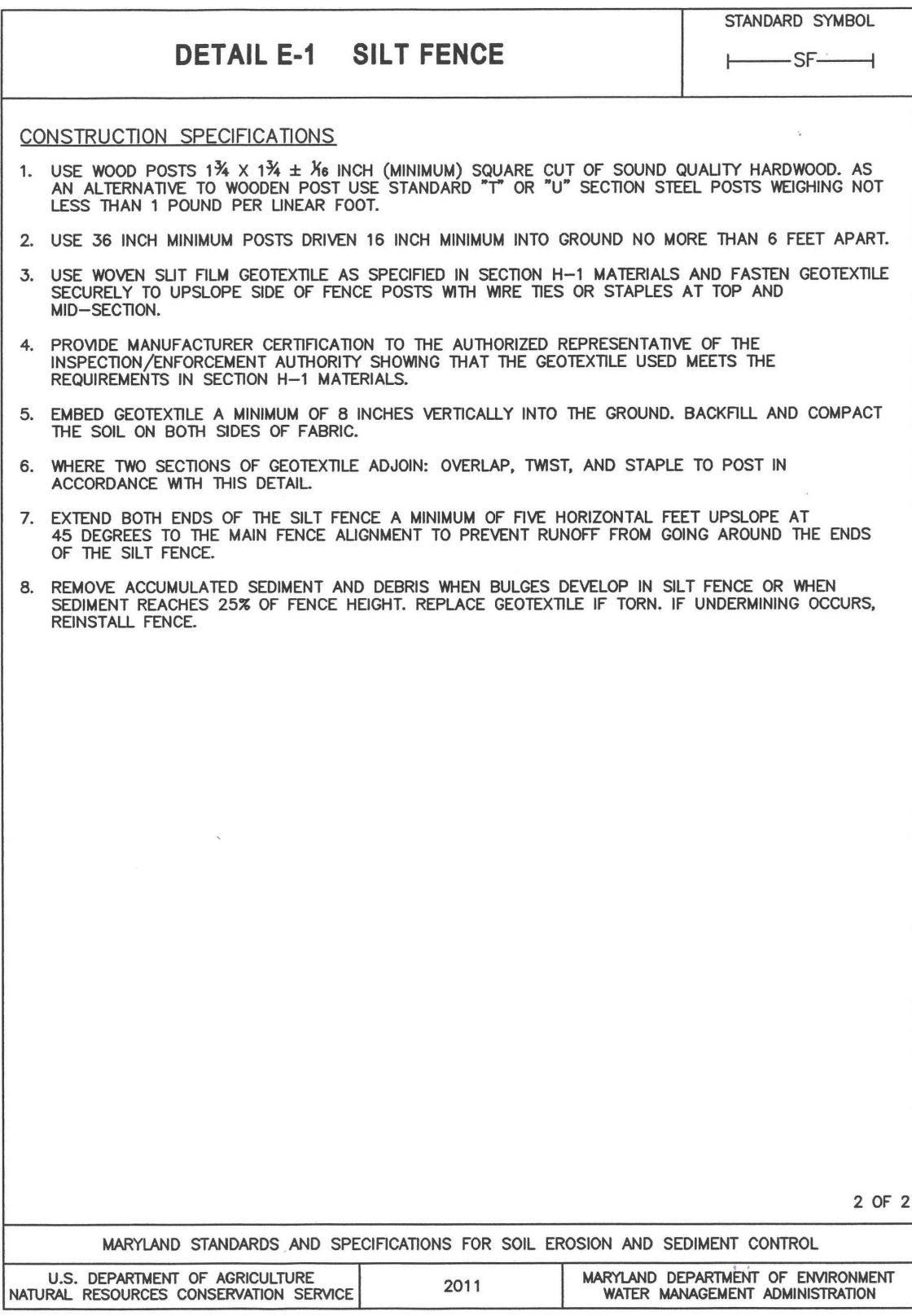
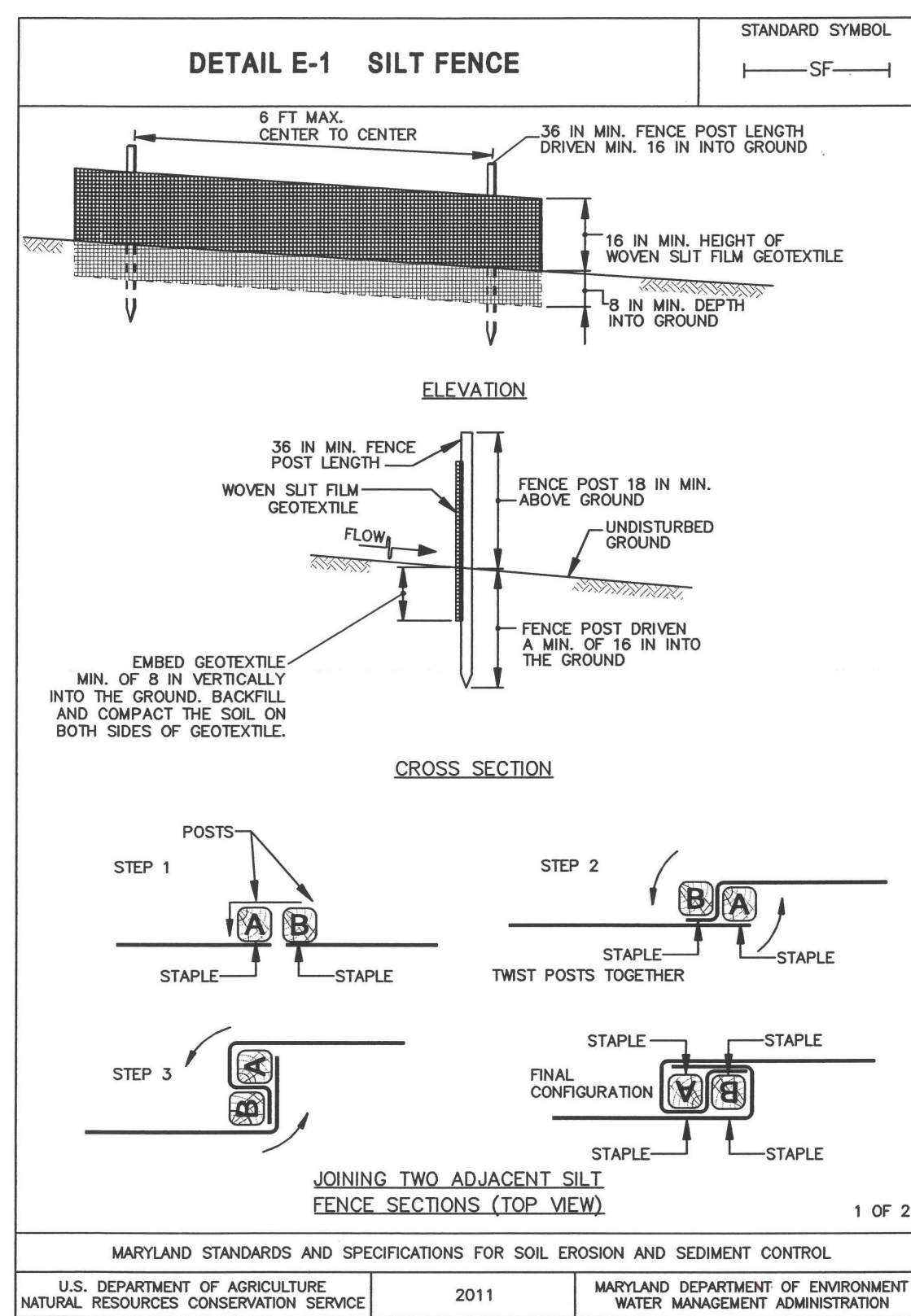
**ARRG**  
201 Thomas Johnson Drive, Suite 207  
Frederick, Maryland 21702  
Tel 301.791.1100

TITLE		CONSTRUCTION DETAILS	
SCALE	AS NOTED	DWG. NO.	C-ESD-2
PROJECT NO.	10611	SHEET NO.	3 OF 13
REV.			









**SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT**

STANDARD STABILIZATION NOTE: FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, SEEDING FOR PERMANENT STABILIZATION OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE UNDER ACTIVE GRADING. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED STABILIZED.

1. PERMANENT SEEDING:

NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)			LIME RATE
					N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
8	TALL FESCUE	100	2/15-4/30 8/15-10/31	1/4-1/2 IN	45 LB/AC (10 LB/1000 SF)	90 LB/AC (90 LB/1000 SF)	90 LB/AC (90 LB/1000 SF)	2.5 TONS/AC (100 LB/1000 SF)

- A. SOIL TESTS: LIME AND FERTILIZER WILL BE APPLIED PER SOIL TESTS RESULTS FOR SITES GREATER THAN 5 ACRES. SOIL TESTS WILL BE DONE AT COMPLETION OF INITIAL ROUGH GRADING OR AS RECOMMENDED BY THE SEDIMENT CONTROL INSPECTOR. RATES AND ANALYSES WILL BE PROVIDED TO THE GRADING INSPECTOR AS WELL AS THE CONTRACTOR. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
- a. SOIL PH SHALL BE BETWEEN 6.0 AND 7.0.
  - b. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM).
  - c. THE SOIL SHALL CONTAIN LESS THAN 40% CLAY BUT ENOUGH FINE GRAINED MATERIAL (>30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCESSIVE AMOUNT OF LOAM OR SERICEA LESPEDEZA IS TO BE PLANTED, THEN A SANDY SOIL (<30% SILT PLUS CLAY) WOULD BE ACCEPTABLE.
  - d. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT.
  - e. SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
  - f. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED IN ACCORDANCE WITH SECTION B-4-2 TITLED STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOIL AND SOIL AMENDMENTS AS FOUND IN THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- B. SEEDBED PREPARATION: AREA TO BE SEEDBED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 TO 5 INCHES. THE TOP LAYER SHALL BE LOOSENEED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS TOPSOIL, HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDRO SEEDING, AND 10 POUNDS OF 10-20-20 FERTILIZER PER 1,000 SQUARE FEET. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 TO 5 INCHES ON SLOPES FLATTER THAN 3:1.
- C. SEEDING: APPLY 5-6 POUNDS PER 1,000 SQUARE FEET OF TALL FESCUE BETWEEN FEBRUARY 15 AND APRIL 30 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOST FIRM SEEDBED WITH A CYCLONE SEEDER, CULTIPACKER SEEDER OR HYDROSEEDER (CLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 3/8 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE WHERE NECESSARY TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. IF OTHER SEED MIXES ARE TO BE USED, SEED SELECTIONS MUST MEET THE 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- D. MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDBED AREAS IMMEDIATELY AFTER SEEDING AS PER SECTION B-4-4 TITLED STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING AND MAINTAINED UNTIL SEEDING CAN BE PERFORMED. MULCH SHALL BE UNROTTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH-ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR BY HAND, TO A DEPTH OF 1-2 INCHES.
- E. SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE MOVEMENT BY WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
- (i) USE MULCH-ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2-INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH. HOWEVER, IT IS LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY. IF A MULCH-ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE.
  - (ii) WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER FINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS PER WATER.
  - (iii) LIQUID BINDERS MAY BE USED. APPLY AT HIGHER RATES AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION. BINDERS LISTED IN THE 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR APPROVED EQUIPMENT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURERS.
  - (iv) LIGHTWEIGHT PLASTIC NETTING MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- F. IRRIGATION: IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO ENSURE ADEQUATE VEGETATIVE ESTABLISHMENT.

**EROSION AND SEDIMENT CONTROL NOTES**

1. EROSION AND SEDIMENT PRACTICES, AND SITE IN GENERAL, MUST BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT, BY THE CONTRACTOR OR OTHER RESPONSIBLE PERSON, AND ANY NEEDED MAINTENANCE PERFORMED IMMEDIATELY.
2. PHASED CLEARING AND GRADING SHOULD BE USED WHENNEVER STEEP SLOPES AND/OR STREAMS OR OTHER SENSITIVE AREAS OR WHEN MASS GRADING IS PROPOSED.
3. SEDIMENT AND EROSION CONTROLS CANNOT BE REMOVED UNTIL THE SITE HAS ADEQUATE STABILIZATION, ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED AND THE SEDIMENT CONTROL INSPECTOR HAS APPROVED SUCH REMOVAL.
4. SITE MUST BE GRADED IN SUCH A MANNER THAT THE APPROVED DRAINAGE DIVIDES ARE MAINTAINED THROUGHOUT SITE CONSTRUCTION.
5. INSTALLATION OF ADDITIONAL INLET PROTECTION MAY BE PERMITTED BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IF THE DRAINAGE AREA TO SAID INLET DRAINS TO AN APPROVED SEDIMENT AND EROSION CONTROL PRACTICE.

**SEQUENCE OF CONSTRUCTION**

1. CONTRACTOR/DEVELOPER MUST NOTIFY THE COMPLIANCE PROGRAM, WATER MANAGEMENT ADMINISTRATION, MARYLAND DEPARTMENT OF THE ENVIRONMENT, (410) 537-3510, 5 DAYS PRIOR TO COMMENCING WORK.
- STANDARD STABILIZATION NOTE: FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, SEEDING FOR PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED.
2. THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR IS REQUIRED UPON INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. INSTALL TEMPORARY MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL MEASURES AS REQUIRED. CONTRACTOR SHALL ONLY OPEN UP AS MUCH TRENCH AS CAN BE CLOSED AND STABILIZED THE SAME DAY.
3. SITE MUST BE GRADED IN SUCH A MANNER THAT THE APPROVED DRAINAGE DIVIDES ARE MAINTAINED THROUGHOUT SITE CONSTRUCTION.
4. ADDITIONAL INLET PROTECTION MAY BE PERMITTED BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IF THE DRAINAGE AREA TO SAID INLET DRAINS TO AN APPROVED SEDIMENT AND EROSION CONTROL PRACTICE.
5. EROSION AND SEDIMENT PRACTICES, AND SITE IN GENERAL, MUST BE INSPECTED WEEKLY AND AFTER EACH RAIN FALL EVENT, BY THE CONTRACTOR OR OTHER RESPONSIBLE PERSON, AND ANY NEEDED MAINTENANCE PERFORMED IMMEDIATELY. CONTRACTOR TO MAINTAIN A LOGBOOK OF INSPECTIONS.
6. INSTALL UNDERGROUND UTILITIES INCLUDING WATER, SEWER, STORM SEWER AND ELECTRIC/TELEPHONE SERVICES REQUIRED. BACK FILL AND SEED. (10 DAYS)
7. STRIP AND STOCKPILE TOPSOIL AND ROUGH GRADE FOR RESTROOM AREA. (2 DAYS)
8. EXCAVATE AND INSTALL FOOTINGS AT RESTROOM BUILDING. (5 DAYS)
9. INSTALL BUILDING FLOOR SLAB. (2 DAYS)
10. COMPLETE RESTROOM BUILDING. (90 DAYS)
11. INSTALL DRY WELLS AT RESTROOM. (1 DAY)
12. COMPLETE FINAL STABILIZATION OF ALL DISTURBED AREAS. (1 DAY)
13. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AFTER ALLOWED TO DO BY INSPECTOR AND MDE. (1 DAY).
14. CONTRACTOR TO PROVIDE SAME DAY STABILIZATION FOR AREAS WHERE SEDIMENT AND EROSION CONTROLS HAVE BEEN REMOVED.
15. SEDIMENT AND EROSION CONTROLS CANNOT BE REMOVED UNTIL THE SITE HAS ADEQUATE STABILIZATION. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED AND THE SEDIMENT CONTROL INSPECTOR HAS APPROVED SUCH REMOVAL.

**SITE ANALYSIS**

TOTAL SITE AREA	12.7 ACRES
DISTURBED AREA	0.24 ACRES
IMPROVED AREA (BUILDING)	0.04 ACRES
AREA TO BE CLEARED	0.24 ACRES
AREA TO BE VEGETATED	0.16 ACRES
AREA TO BE PAVED	0.04 ACRES
VOLUME OF EXCAVATION	200 CYD
VOLUME OF SPILL BORROW	200 CYD
OFFSITE BORROW/WASTE LOCATION	N/A

**B-4.2 STANDARDS AND SPECIFICATIONS**

**FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS**

**Definition**

The process of preparing the soils to sustain adequate vegetative stabilization.

**Purpose**

To provide a suitable soil medium for vegetative growth.

**Conditions Where Practice Applies**

Where vegetative stabilization is to be established.

**Criteria**

- A. Soil Preparation
1. Temporary Stabilization
    - a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
    - b. Apply fertilizer and lime as prescribed on the plans.
    - c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
  2. Permanent Stabilization
    - a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
      - i. Soil pH between 6.0 and 7.0.
      - ii. Soluble salts less than 500 parts per million (ppm).
      - iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
      - iv. Soil contains 1.5 percent minimum organic matter by weight.
      - v. Soil contains sufficient pore space to permit adequate root penetration.
    - b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
    - c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

**CONSTRUCTION SPECIFICATIONS**

1. USE WOOD POSTS 1 1/2 X 1 1/2 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJURE: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN; IF UNDERMINING OCCURS, REINSTALL FENCE.

- d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
- e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.
- B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
  2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.
  3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
    - a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
    - b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
    - c. The original soil to be vegetated contains material toxic to plant growth.
    - d. The soil is so acidic that treatment with limestone is not feasible.
    - e. Areas having slopes steeper than 2:1 require special consideration and design.
  4. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
    - a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.
    - b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
    - c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
  5. Topsoil Application
    - a. Erosion and sediment control practices must be maintained when applying topsoil.
    - b. Uniformly distribute topsoil in a 4 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
    - c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading.

B.12

B.13

**STOCKPILE NOTES**

1. NO STOCKPILING ALLOWED ON ASPHALT.
2. ALL STOCKPILES LEFT AT THE END OF THE DAY NEED TO BE STABILIZED UNTIL THE NEXT REDISTURBANCE. COVER WITH PLASTIC AND WEIGH DOWN.

**FOR UTILITY WORK ONLY OR FOR OFF-SITE UTILITY WORK**

1. PLACE ALL EXCAVATED MATERIAL ON HIGH SIDE OF TRENCH, SILT FENCE ON LOW SIDE.
2. ONLY DO AS MUCH WORK AS CAN BE DONE IN ONE DAY SO BACKFILLING, FINAL GRADING, SEEDING AND MULCHING CAN OCCUR.
3. ANY SEDIMENT CONTROL MEASURES DISTURBED BY CONSTRUCTION WILL BE REPAIRED ON THE SAME DAY.

**SOIL NOTE**

THE PROJECT SITE IS LOCATED IN QUATERNARY AGED LOWLAND DEPOSITS WHICH ARE COMPOSED PRIMARILY OF GRAVEL, SAND, SILT, AND CLAY. GLAUCONITE-RICH SOIL MAY BE ENCOUNTERED. GLAUCONITE IS AN IRON, POTASSIUM PHYLLOSILICATE MINERAL OF CHARACTERISTIC GREEN COLOR WHICH IS VERY FRAGILE AND HAS VERY LOW WEATHERING RESISTANCE. GLAUCONITIC SAND MAY HAVE A COUPLE OF PROBLEMS THAT NEED TO BE CONSIDERED; THEY CAN BE HIGH IN SULFATE (INHIBITING PLANT GROWTH AND PROMOTING CORROSION) AND BE ACID FORMING SOLIDS. IF CONTRACTOR DOES ENCOUNTER GLAUCONITE-RICH SOIL THEY MAY CONSIDERING PVC PIPE RATHER THAN OTHER METAL PIPES WHICH MAY CAUSE CORROSION.

NO.	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION			
0	ISSUED FOR BID			
D	CLIENT COMMENTS	02/02/16	JLW	RD
C	CLIENT COMMENTS	11/13/13	AM	RD
B	CLIENT COMMENTS	3/21/13	AM	RD
A	ISSUED TO CLIENT	2/18/13	AM	RD

NO.	REVISION	DATE	BY	APP.
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PROFESSIONAL CERTIFICATION  
I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 38661  
Expiration Date: 3/31/2024

CLIENT & PROJECT  
TOWN OF INDIAN HEAD  
4195 INDIAN HEAD HIGHWAY  
INDIAN HEAD, MARYLAND, 20640  
INDIAN HEAD RESTROOM FACILITY  
INDIAN HEAD, CHARLES COUNTY, MARYLAND

201 Thomas Johnson Drive, Suite 207  
Frederick, Maryland 21702  
Tel 301.791.1100

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A	ISSUED TO CLIENT	2/18/13	AM	RD

TITLE  
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SCALE  
AS NOTED

PROJECT NO.  
10611

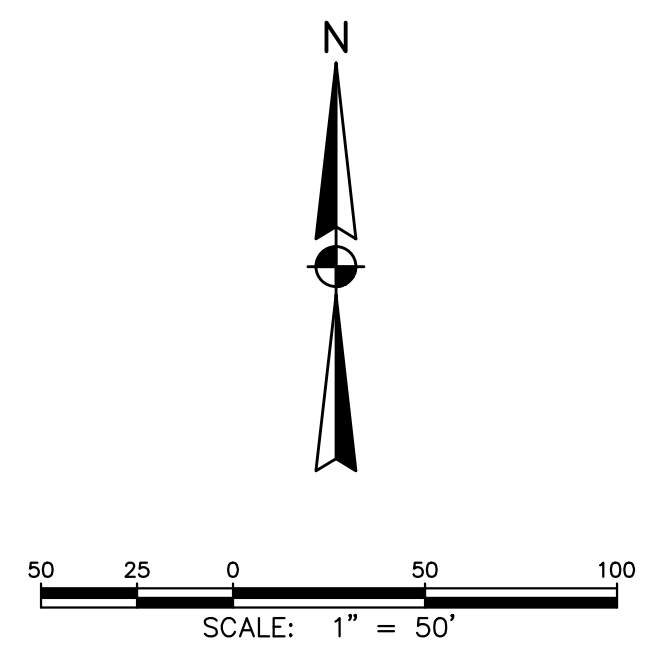
SHEET NO.  
5 OF 13

DWG. NO.  
C-ESD-4

REV.  
REV.

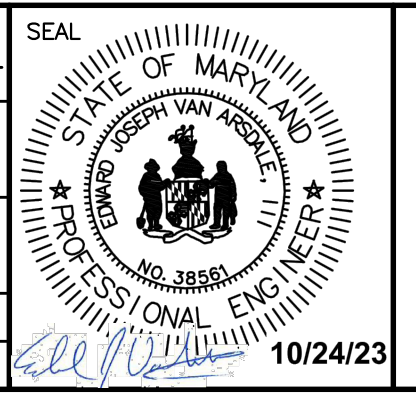
NOTE: USE OF THE INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.





NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

EDWARD J. VAN ARSDALE, PE	RELEASED BY	CHECKED
R.D. PARKS, P.E.	DESIGN	CHECKED
SAM	DRAWN	CHECKED
MARCH 2022	DATE	SURVEY DATE
		FIELD BOOK



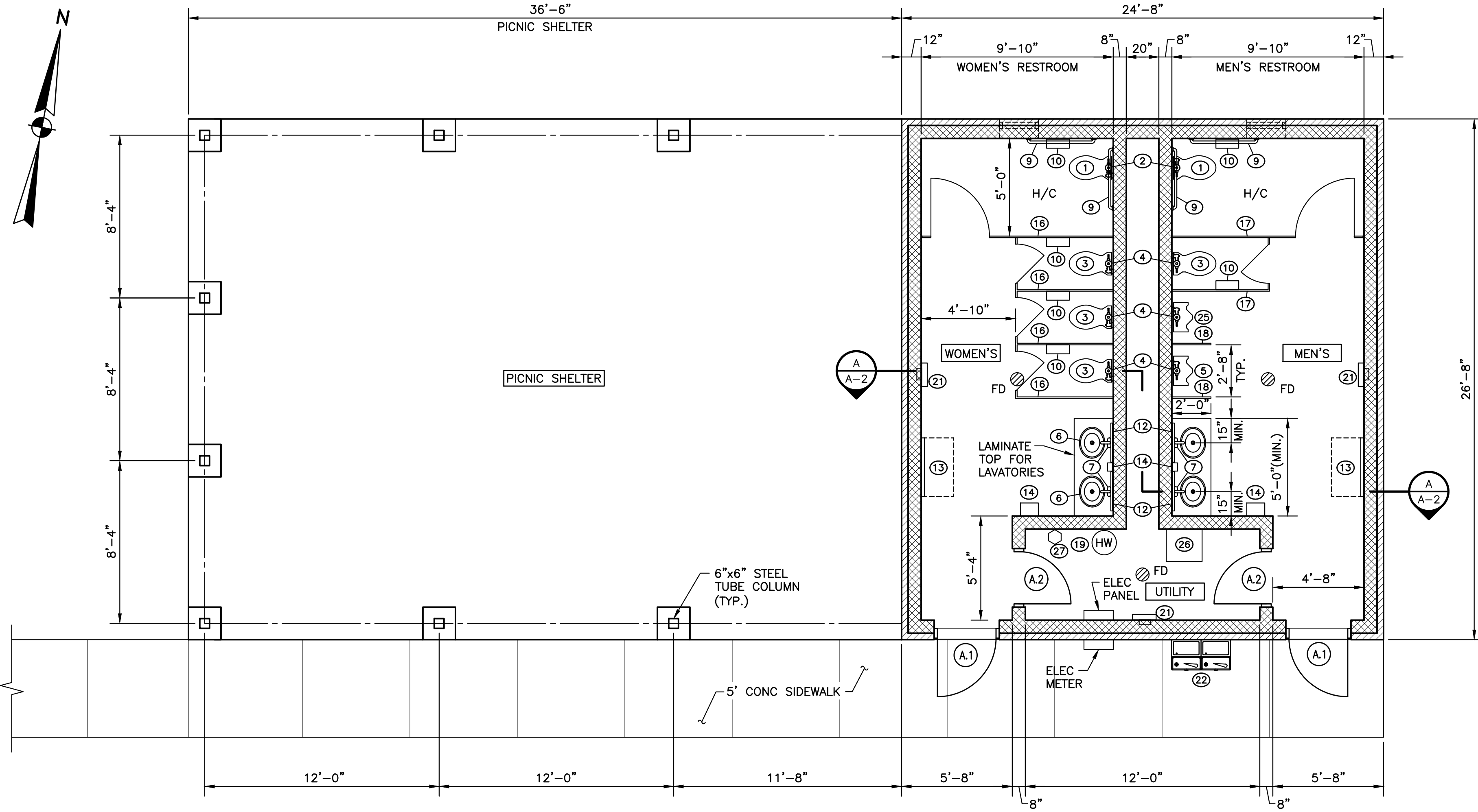
PROFESSIONAL CERTIFICATION  
 I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 36561, Expiration Date: 3/31/2024

CLIENT & PROJECT  
 TOWN OF INDIAN HEAD  
 4195 INDIAN HEAD HIGHWAY  
 INDIAN HEAD, MARYLAND, 20640  
 INDIAN HEAD RESTROOM FACILITY  
 INDIAN HEAD, CHARLES COUNTY, MARYLAND



TITLE DRAINAGE AREA MAP, SEDIMENT CONTROL PLAN		
SCALE 1" = 50'	DWG. NO. C-ESD-5	
PROJECT NO. 10611	SHEET NO. 6 OF 13	REV. 



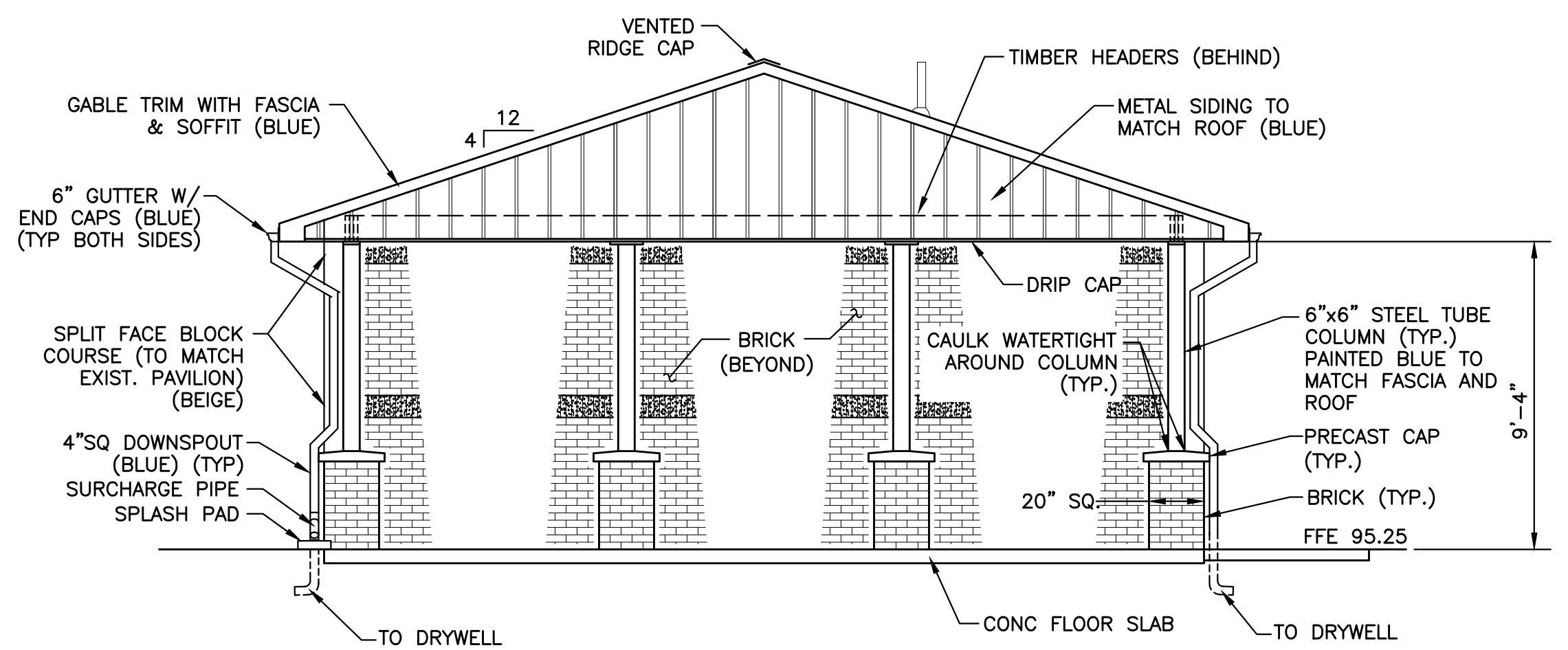


**FLOOR PLAN**

SCALE: 1/4"=1'-0"

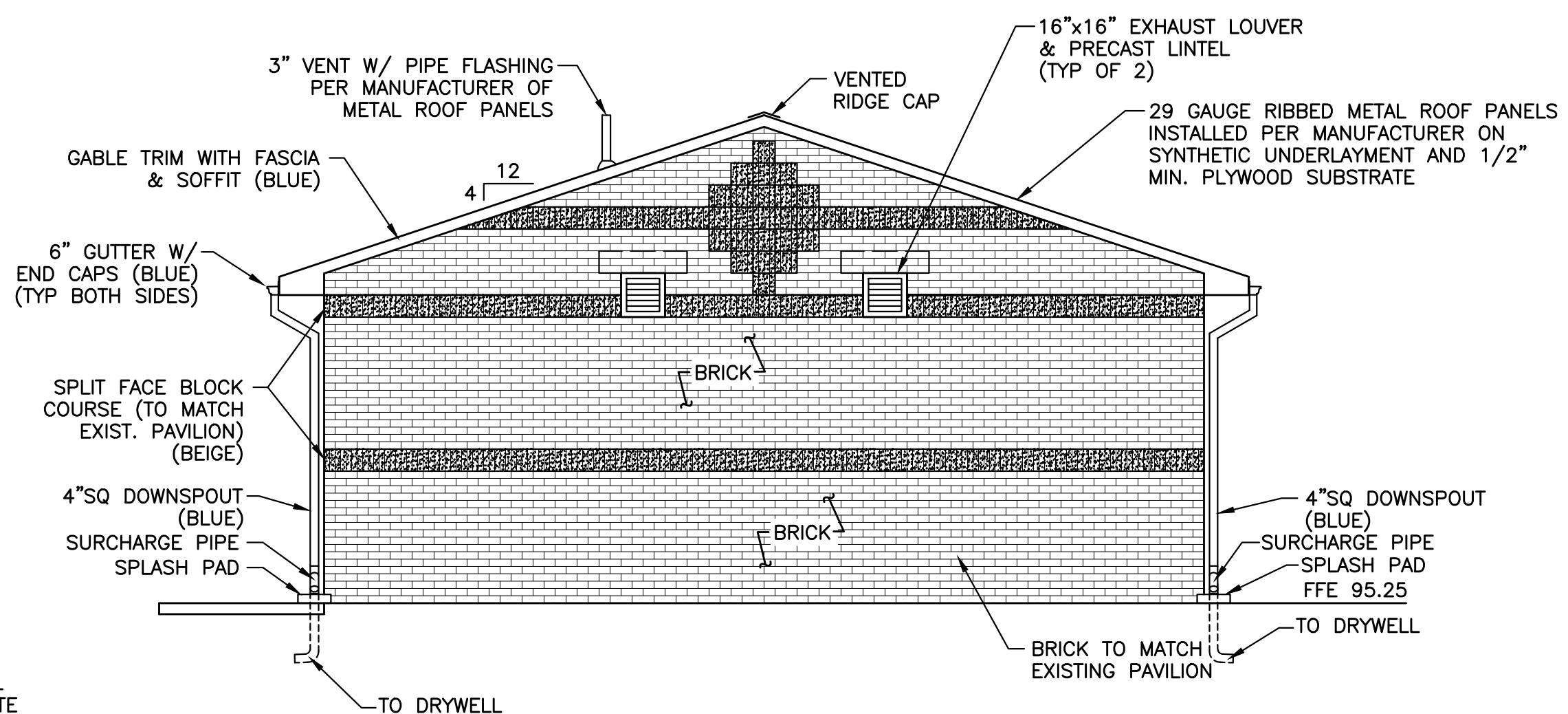
NO	ITEM DESCRIPTION	COMPANY CONTACT	MAKE/MODEL (OR APPROVED EQUAL)	ITEM NUMBER	QUANTITY	REMARKS
1	ADA COMPLIANT TOILET	P-2 PER SPEC 15400			2	WALL HUNG
2	ADA FLUSH VALVE	P-2 PER SPEC 15400			2	WALL HUNG
3	STANDARD TOILET	P-1 PER SPEC 15400			4	
4	STANDARD FLUSH VALVE	P-1 PER SPEC 15400			4	
5	STD URINAL	P-3 PER SPEC 15400			4	
6	LAVATORY	P-5 PER SPEC 15400			4	
7	ADA COMPLIANT LAVATORY FAUCET	P-6 PER SPEC 15400			4	
8	ADA LAVATORY INSULATION KIT		RECESSED IN COUNTER TOP	N/A	4	
9	ADA GRAB BAR KIT (3 PIECES)		RECESSED IN COUNTER TOP	T-BRO 102EZ HANDI LAV GUARD	2328185	
10	TOILET PAPER DISPENSER	AMERAPRODUCTS	ALTERA 12" TOILET PAPER DISPENSER	812	2	
11	SOAP DISPENSER	AMERAPRODUCTS	SOAP DISPENSER	JO 31001	6	
12	WALL MIRROR	AMERAPRODUCTS	ROLLED FRAME CHANNEL 24"x36"	6583	4	
13	BABY CHANGING STATION	AMERAPRODUCTS	BROCCAR HORIZONTAL BABY STATION	781	2	
14	HAND BLOW DRYER (NOT USED)	AMERAPRODUCTS	SANIFLOW PUSH BUTTON HAND DRYER	100-EH-TRF	2	
15	LADIES STALL PARTITION		DOUBLE STALL/STANDARD HANDICAP	E88	2	110-120V, 1850 WATTS MOUNTED 40" FROM FLOOR FOR HC
16	MENS STALL PARTITION		SINGLE STALL HANDICAP		3	PER SPEC SECTION 10160
17	MENS URINAL PARTITION		URINAL SCREEN		1	PER SPEC SECTION 10160
18	ELECTRIC WATER HEATER (NOT USED)	A. O. SMITH	PRO-MAX EJC-6	EJC-6	1	120V, 1650 WATT, 6-GALLON
19	ELECTRIC WALL HEATER (RECESSED)				3	SEE HVAC PLAN & SPECIFICATIONS (DWG MEP-1)
20	DUAL ACCESSIBLE WATER FOUNTAIN	ACORN AQUA	DUAL LEVER OUTDOOR SQUARED DRINKING FOUNTAIN, FREEZE RESISTANT, POWDER COATED BLUE	A1G2700B-BP6-FRA4	1	OUTDOOR APPLICATION
21	(NOT USED)					
22	EXTERIOR LIGHT				2	SEE ELECTRICAL PLAN & SPECIFICATIONS (DWG MEP-1)
23	ADA URINAL	P-4 PER SPEC 15400			1	WALL HUNG
24	UTILITY SLOP SINK	P-7 PER SPEC 15400			1	
25	FIRE EXTINGUISHER				1	

- NOTES:
- ALL POCKETS FOR RECESSED ACCESSORIES TO BE FORMED WITH SOLID 4" CMU BEHIND OPENINGS.
  - ALL ACCESSIBLE ELEMENTS & FIXTURES SHALL COMPLY WITH ANSI/ICC A117.1.98. SUBJECT TO FIELD INSPECTION & APPROVAL.
  - ALL EXPOSED PIPING TO BE INSULATED.



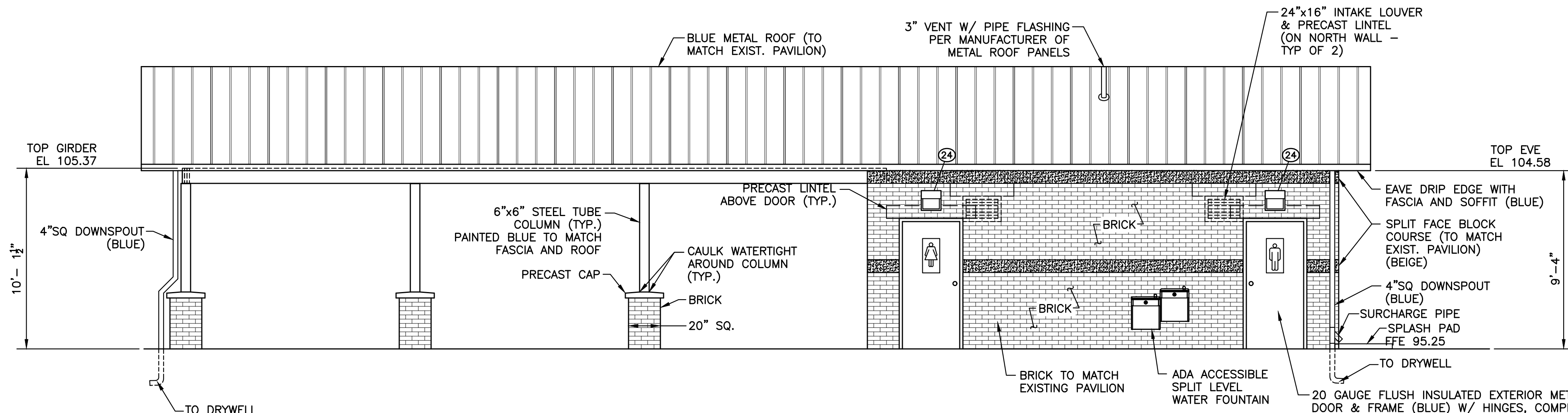
**WEST ELEVATION**

SCALE: 1/4"=1'-0"



**EAST ELEVATION**

SCALE: 1/4"=1'-0"

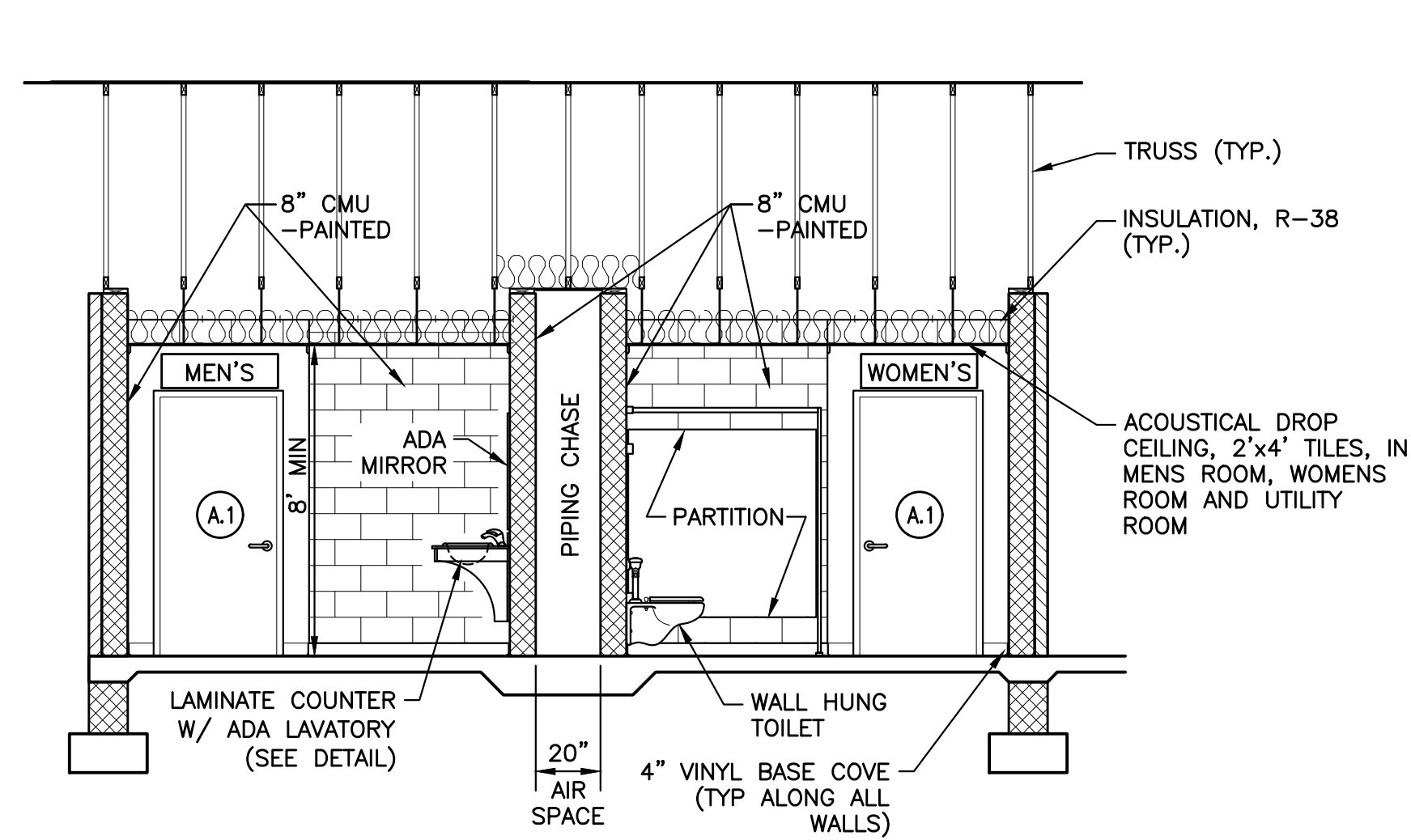


**SOUTH ELEVATION**

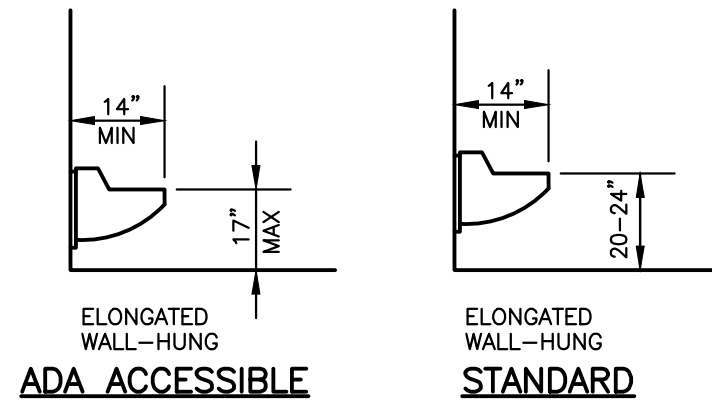
SCALE: 1/4"=1'-0"

1 ISSUED FOR CONSTRUCTION 0 ISSUED FOR BID		EDWARD J. VAN ARSDALE, PE RELEASED BY:			PROFESSIONAL CERTIFICATION I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 36561, Expiration Date: 3/31/2024	CLIENT & PROJECT TOWN OF INDIAN HEAD 4195 INDIAN HEAD HIGHWAY INDIAN HEAD, MARYLAND, 20640  INDIAN HEAD RESTROOM FACILITY INDIAN HEAD, CHARLES COUNTY, MARYLAND	201 Thomas Johnson Drive, Suite 207 Frederick, Maryland 21702 Tel 301.791.1100	TITLE PICNIC SHELTER/RESTROOM ARCHITECTURAL FLOOR PLAN & ELEVATIONS	
D CLIENT COMMENTS 02/02/16 JLW RDP C CLIENT COMMENTS 11/13/13 AM RDP B CLIENT COMMENTS 3/21/13 AM RDP A ISSUED TO CLIENT 2/18/13 AM RDP		R.D. PARKS, P.E. CHECKED  DRAWN SAM CHECKED  DATE MARCH 2022 SURVEY DATE FIELD BOOK						SCALE 0 2 4 8 12 SCALE: 1/4" = 1'-0" PROJECT NO. 10611 SHEET NO. 7 OF 13 REV. A-1	

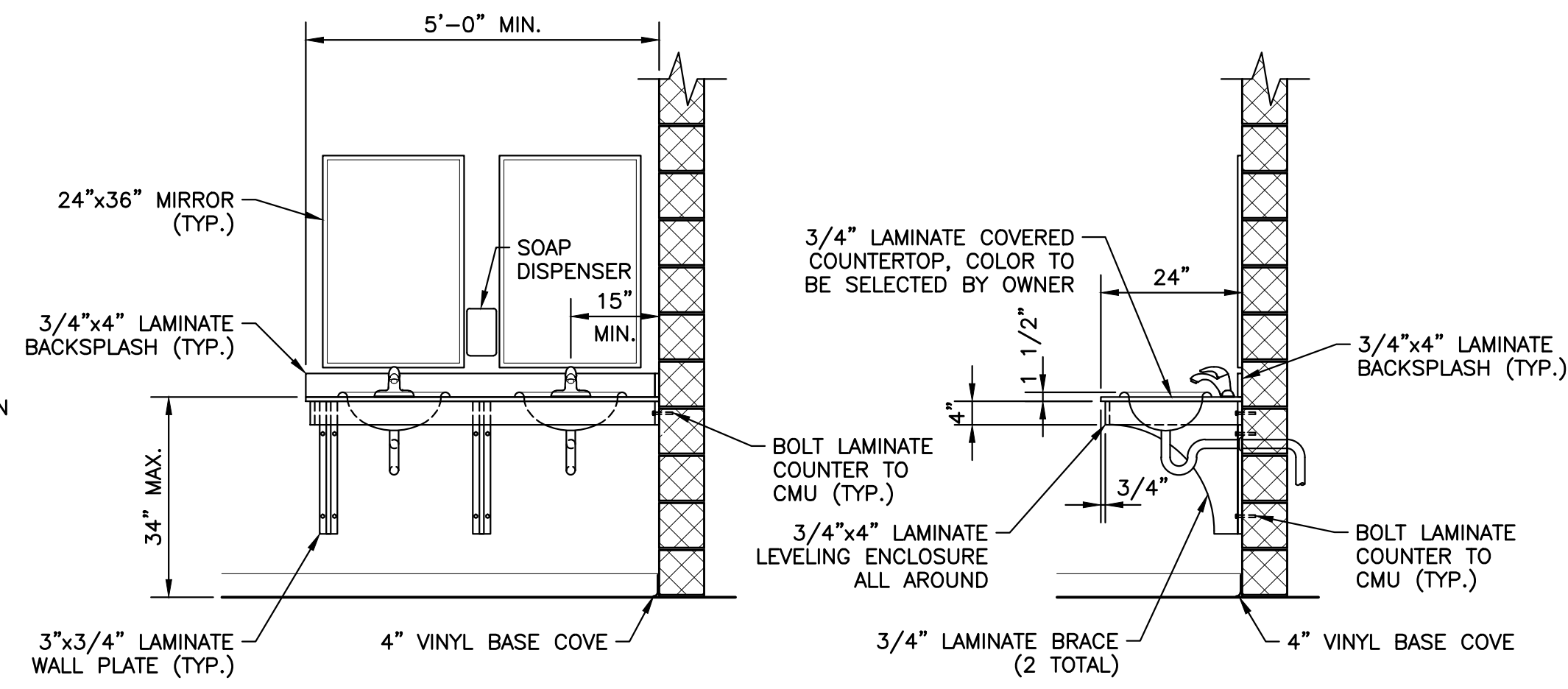




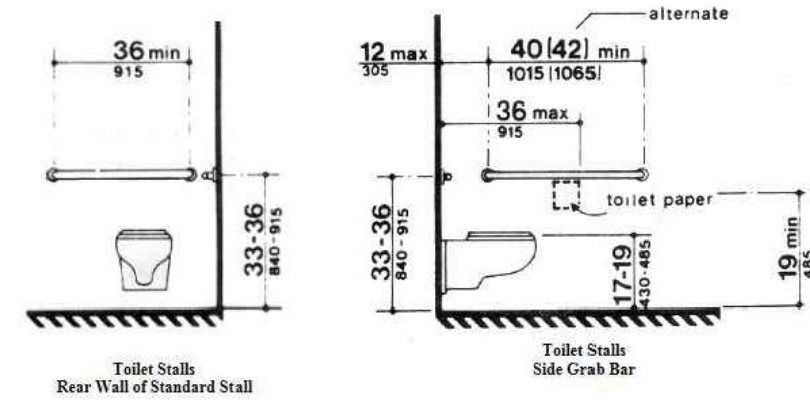
**SECTION A-A**  
SCALE: 1/4" = 1'-0"



**URINAL INSTALLATION**  
N.T.S.



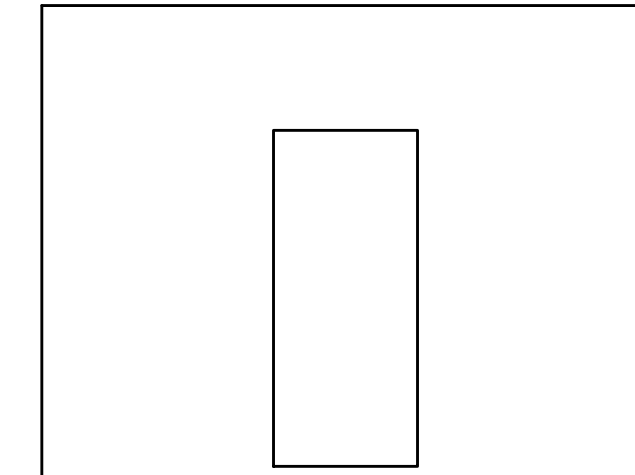
**LAMINATE LAVATORY COUNTER DETAIL**  
SCALE: 1/2" = 1'-0"



**WATER CLOSET INSTALLATION**  
N.T.S.

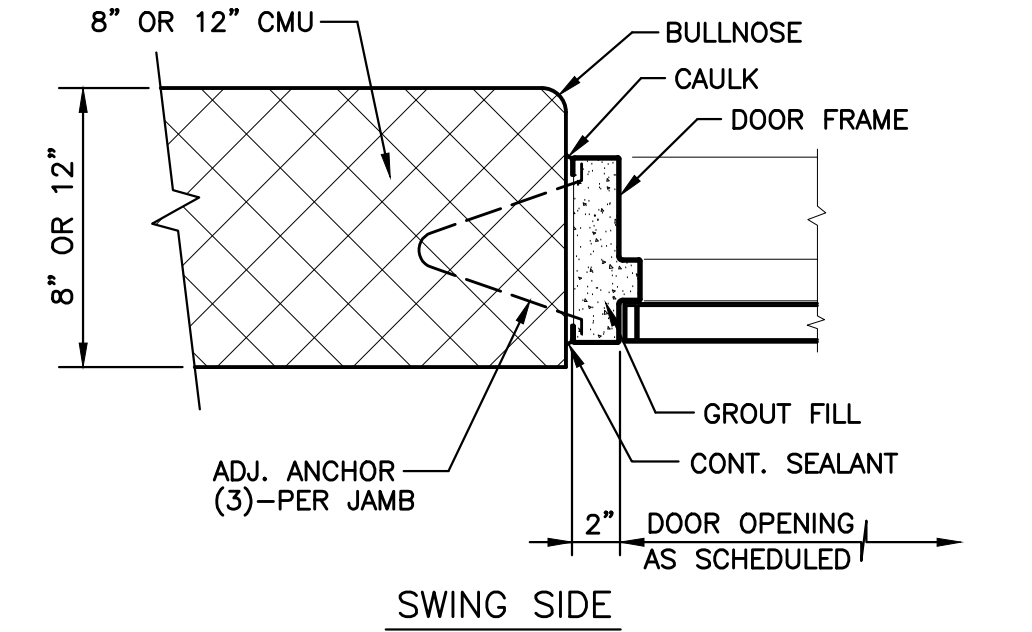
INTERIOR FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS		CEILING		MATERIAL	FINISH	HEIGHT
				MATERIAL	FINISH	MATERIAL	FINISH			
1	WOMEN'S REST RM	CONC. W/ HARDENER	VINYL BASE COVE	CMU	2-PART EPOXY COATING SYSTEM BY RUST-OLEUM OR EQUAL W/ COLOR FLAKES	ACCOUSTICAL TILE				9'-4"
2	MEN'S REST RM	CONC. W/ HARDENER	VINYL BASE COVE	CMU	2-PART EPOXY COATING SYSTEM BY RUST-OLEUM OR EQUAL W/ COLOR FLAKES	ACCOUSTICAL TILE				9'-4"
3	UTILITY ROOM	CONC. W/ HARDENER	VINYL BASE COVE	CMU	2-PART EPOXY COATING SYSTEM BY RUST-OLEUM OR EQUAL W/ COLOR FLAKES	ACCOUSTICAL TILE				9'-4"
4	OUTSIDE PICNIC SHELTER	CONC. W/ HARDENER	--	--	--	1/2" PLYWOOD	PAINTED			9'-4"

**DOOR SCHEDULE / ELEVATIONS**  
NO SCALE

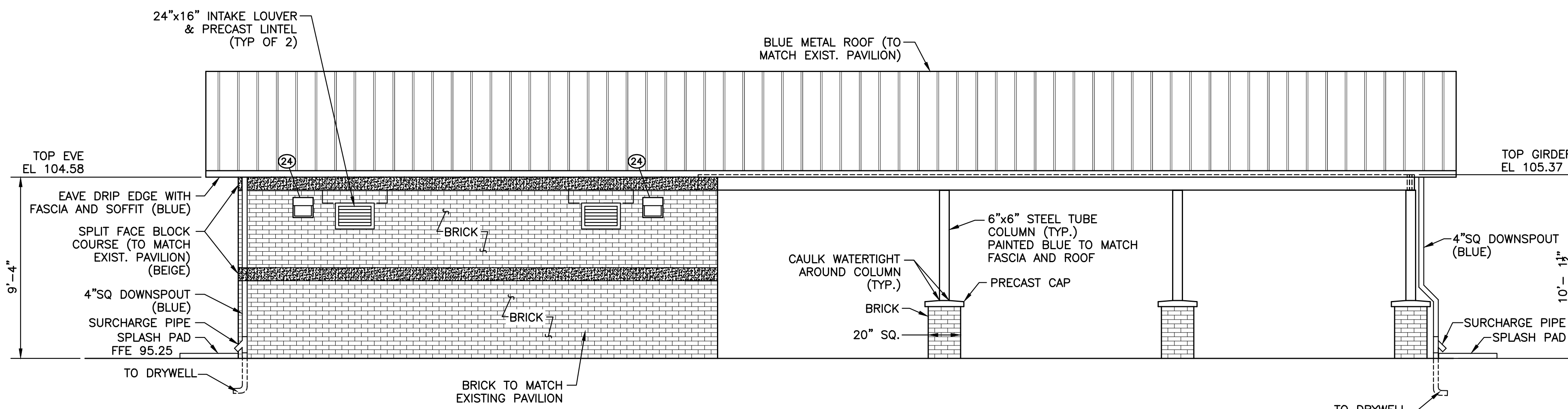


FLUSH HOLLOW METAL		
TYPE	SIZE	REMARKS
A.1	W 3'-0"	INSULATED; WEATHERSTRIP; THRESHOLD (NOTES 1 & 2)
	H 7'-2"	
	T 1 3/4"	
A.2	W 3'-0"	NON-INSULATED; UNDERCUT 1"
	H 7'-2"	
	T 1 3/4"	

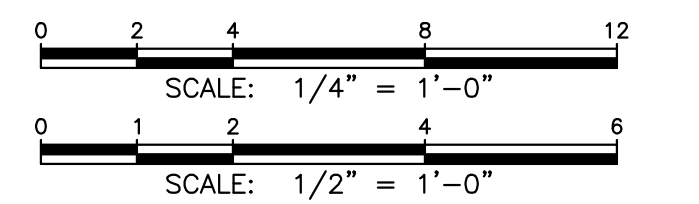
- NOTES:  
1. EXTERIOR DOORS A.1 SHALL BE PROVIDED WITH PANIC EXIT DEVICE.  
2. EXTERIOR DOORS A.1 SHALL BE PAINTED BLUE TO MATCH ROOF.



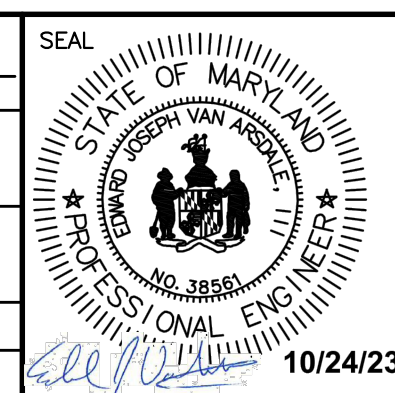
**INTERIOR DOOR - JAMB**  
(HEAD SIMILAR - LINTEL AS DETAILED)



**NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION								
0	ISSUED FOR BID								
D	CLIENT COMMENTS	02/02/16	JLW	RD					
C	CLIENT COMMENTS	11/13/13	AM	RD					
B	CLIENT COMMENTS	3/21/13	AM	RD					
A	ISSUED TO CLIENT	2/18/13	AM	RD					



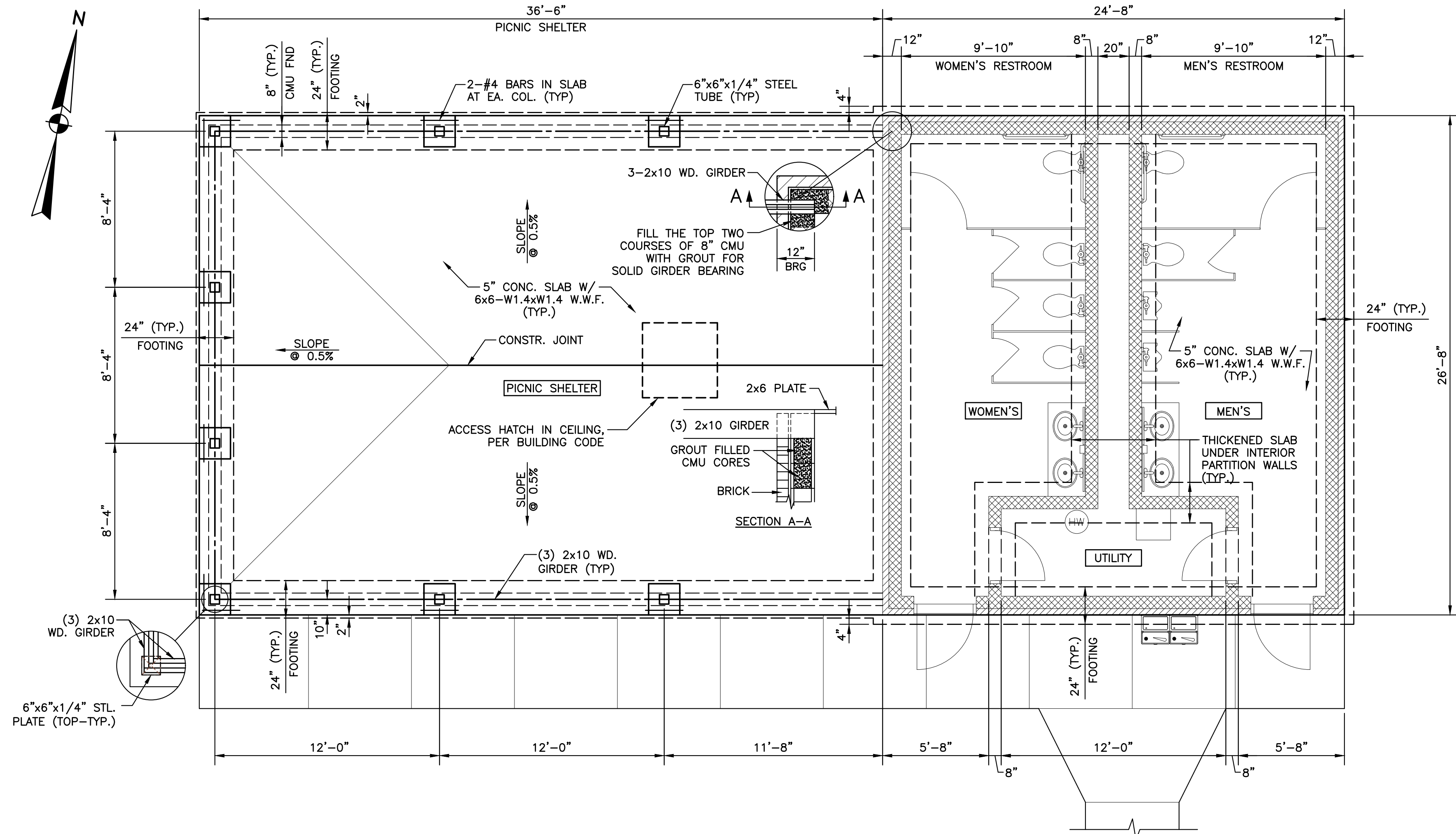
PROFESSIONAL CERTIFICATION  
I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 36561  
Expiration Date: 3/31/2024

CLIENT & PROJECT  
TOWN OF INDIAN HEAD  
4195 INDIAN HEAD HIGHWAY  
INDIAN HEAD, MARYLAND, 20640  
  
INDIAN HEAD RESTROOM FACILITY  
INDIAN HEAD, CHARLES COUNTY, MARYLAND

**ARRG**  
201 Thomas Johnson Drive, Suite 207  
Frederick, Maryland 21702  
Tel 301.791.1100

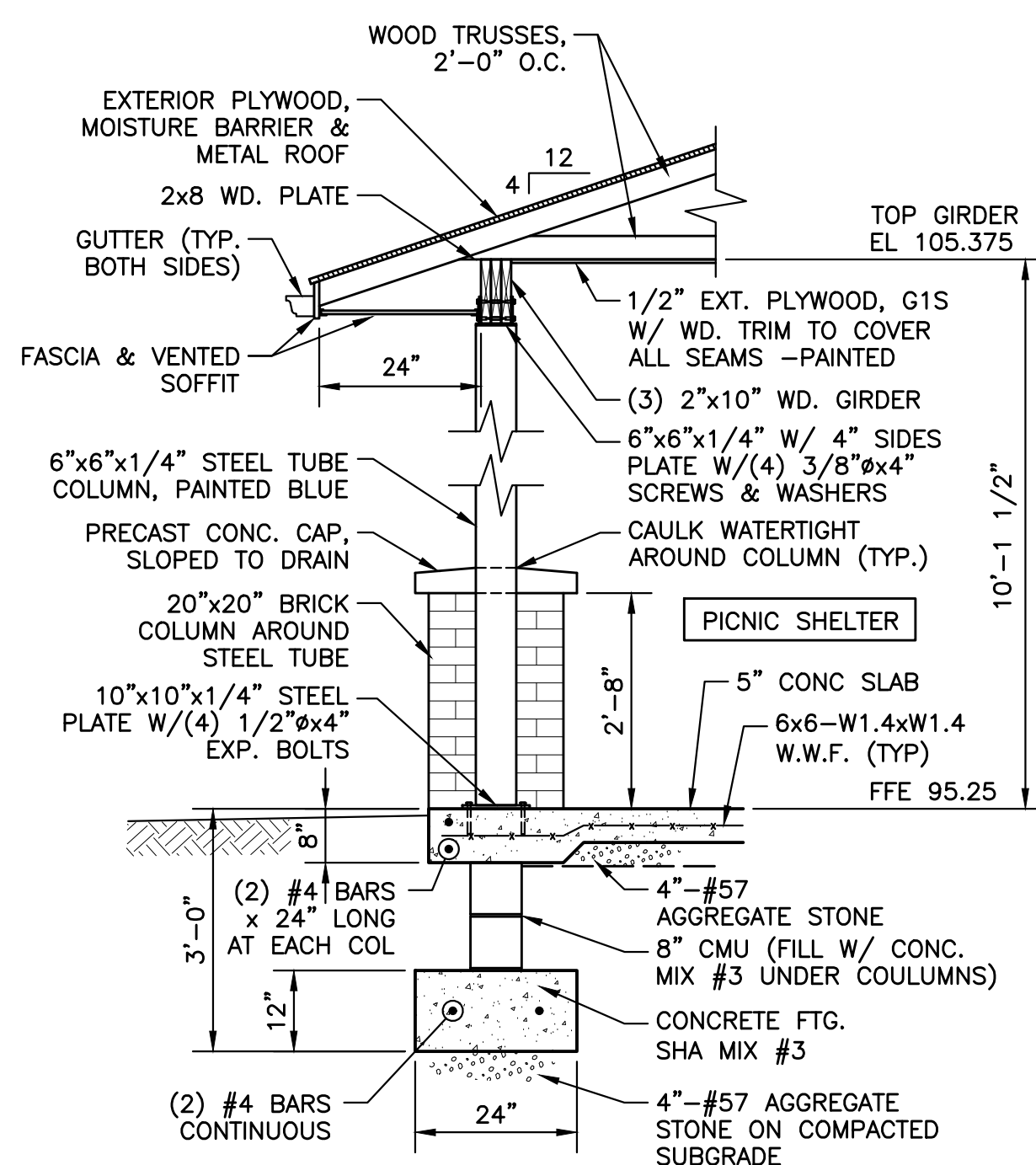
TITLE			
PICNIC SHELTER/RESTROOM ARCHITECTURAL DETAILS			
SCALE	AS NOTED	DWG. NO.	A-2
PROJECT NO.	10611	SHEET NO.	8 OF 13
REV.			





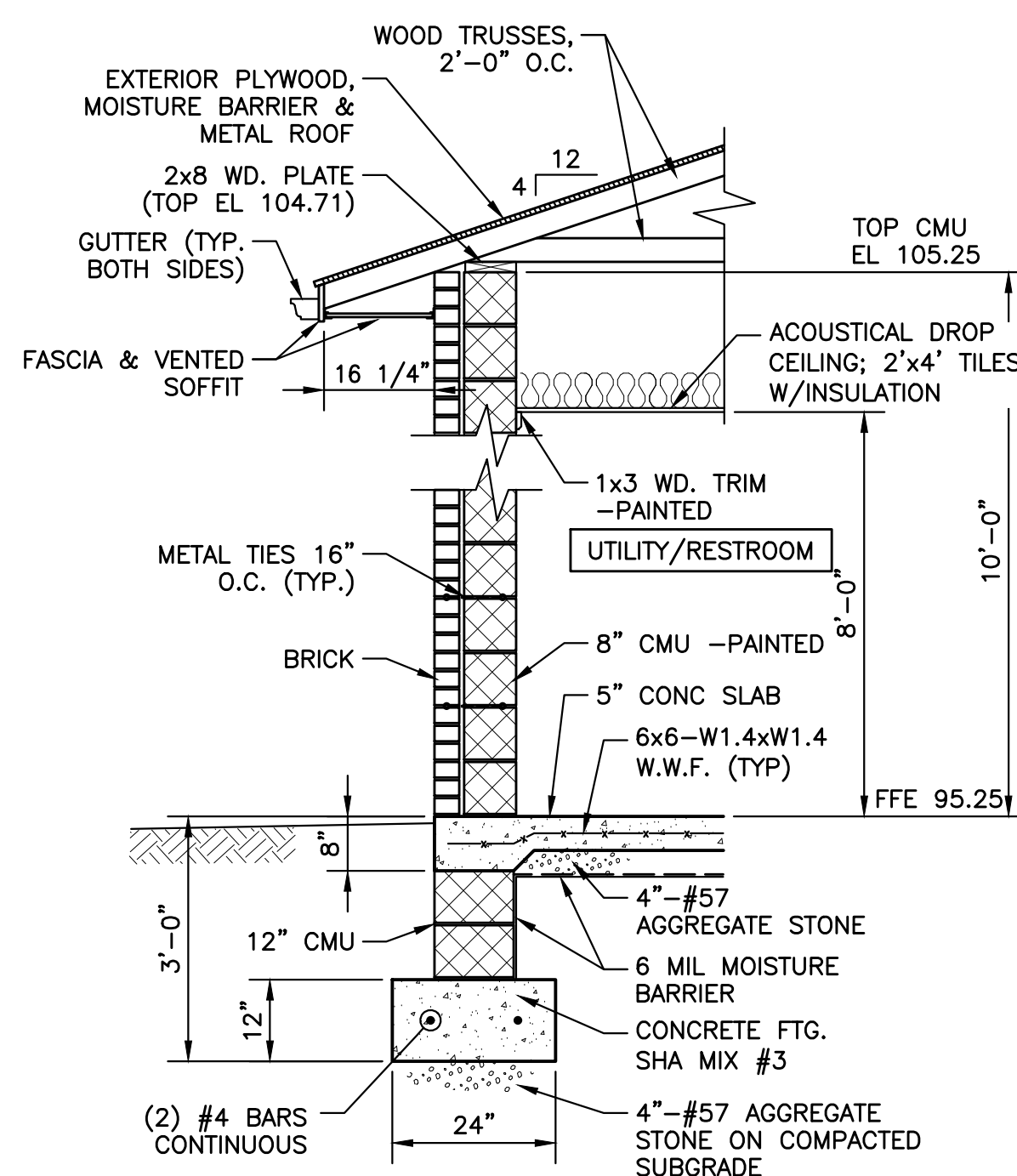
**FLOOR PLAN**

SCALE: 1/4" = 1'-0"



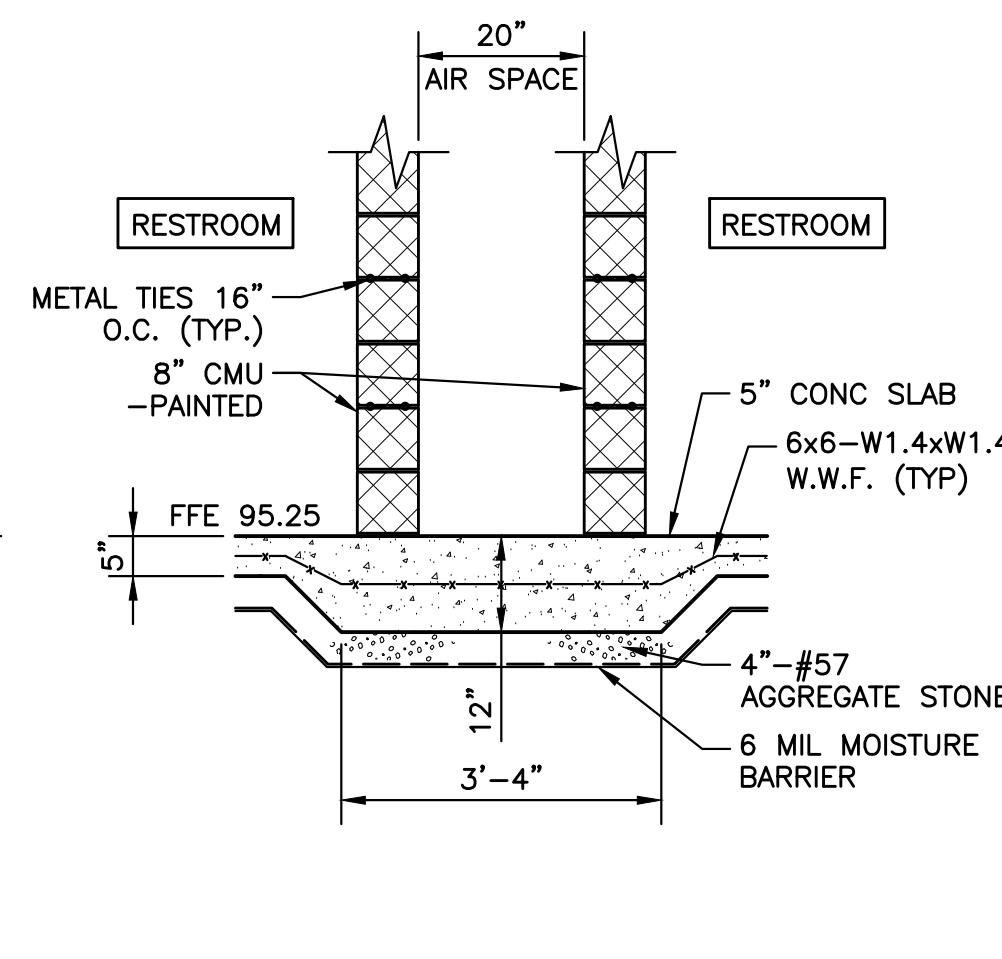
**COLUMN AND FOOTING DETAIL**

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



**EXTERIOR WALL @ UTILITY/RESTROOM**

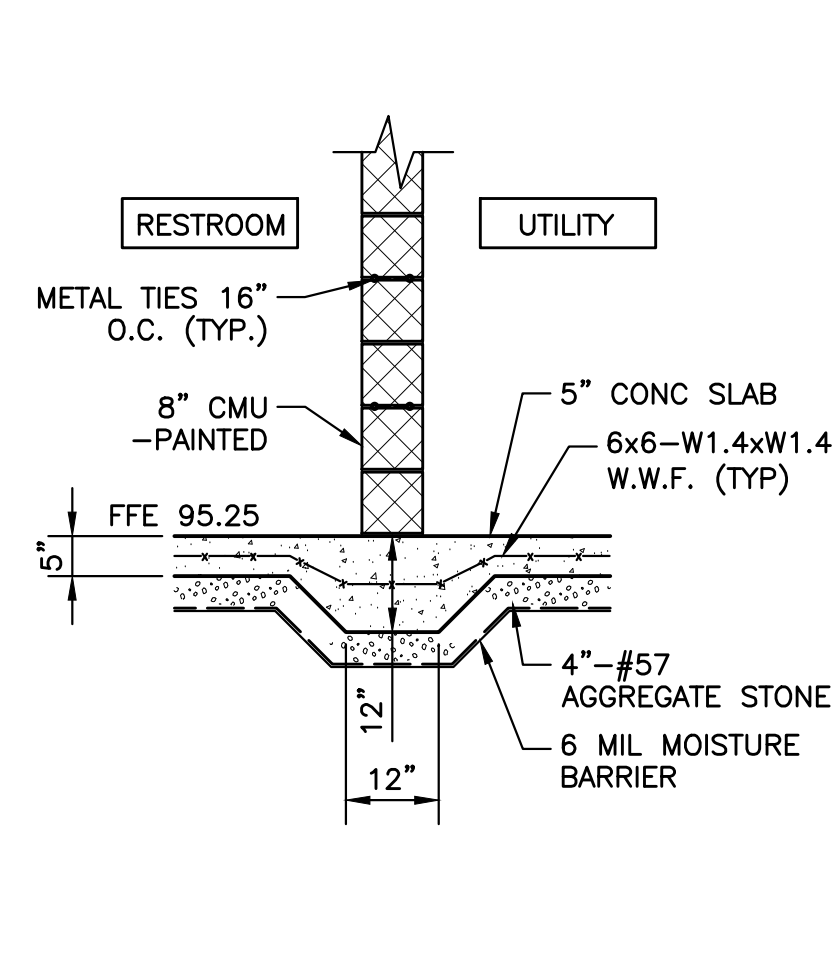
N.T.S.



**INTERIOR CHASE WALL**

**WALL AND FOOTING DETAILS**

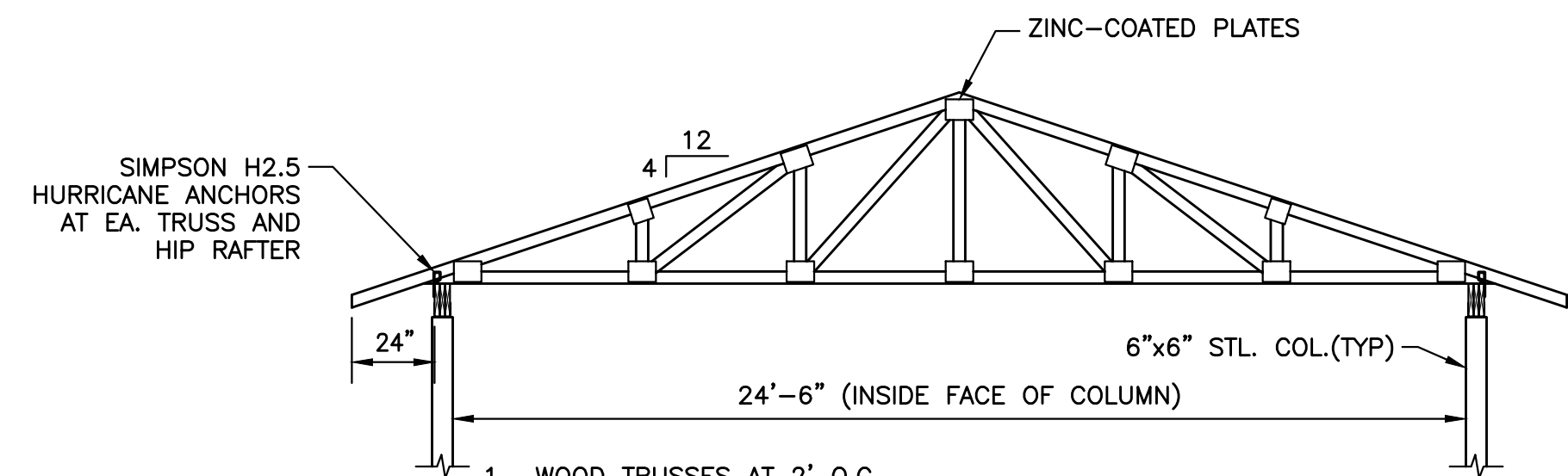
SCALE: 1/2" = 1'-0"



**INTERIOR PARTITION WALL**

**WALL AND FOOTING DETAILS**

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

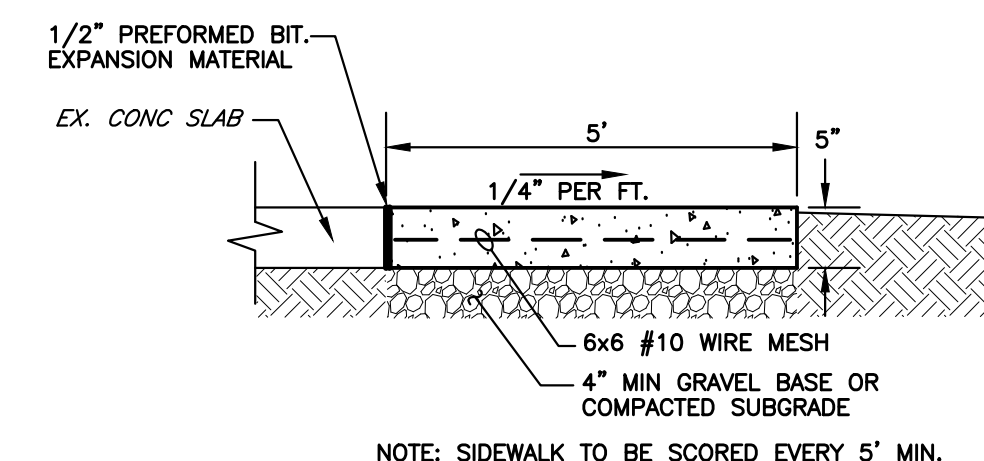


**TYPICAL TRUSS  
SIX PANEL MONOPLANER WOOD**

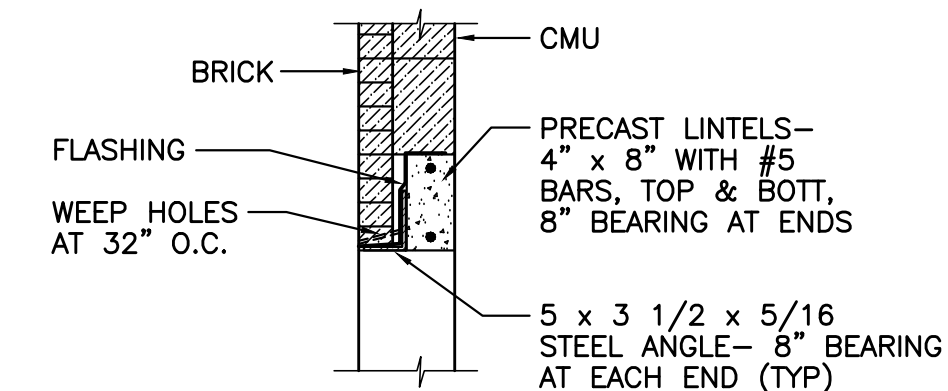
N.T.S.

**NOTES:**

1. ALL CONCRETE SHALL BE SHA CLASS 2.
2. BEARING CAPACITY FOR FOOTINGS SHALL BE 2500 PSF.

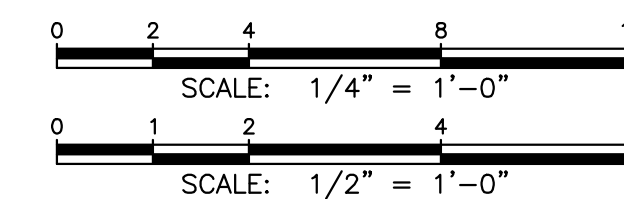


**CONCRETE SIDEWALK**



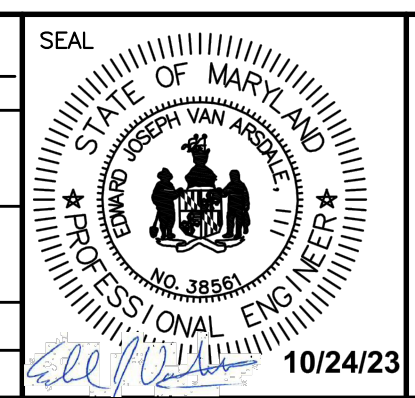
**TYPICAL DOOR/WINDOW/VENTILATION  
LINTEL DETAIL**

N.T.S.



NO.	REVISION	DATE	BY	APP.	NO.	REVISION	DATE	BY	APP.
					1	ISSUED FOR CONSTRUCTION			
					0	ISSUED FOR BID			
					D	CLIENT COMMENTS	02/02/16	JLW	RD
					C	CLIENT COMMENTS	11/13/13	AM	RD
					B	CLIENT COMMENTS	3/21/13	AM	RD
					A	ISSUED TO CLIENT	2/18/13	AM	RD

EDWARD J. VAN ARSDALE, PE	CHECKED
DESIGN	
R.D. PARKS, P.E.	CHECKED
DRAWN	
SAM	
DATE	SURVEY DATE
MARCH 2022	FIELD BOOK



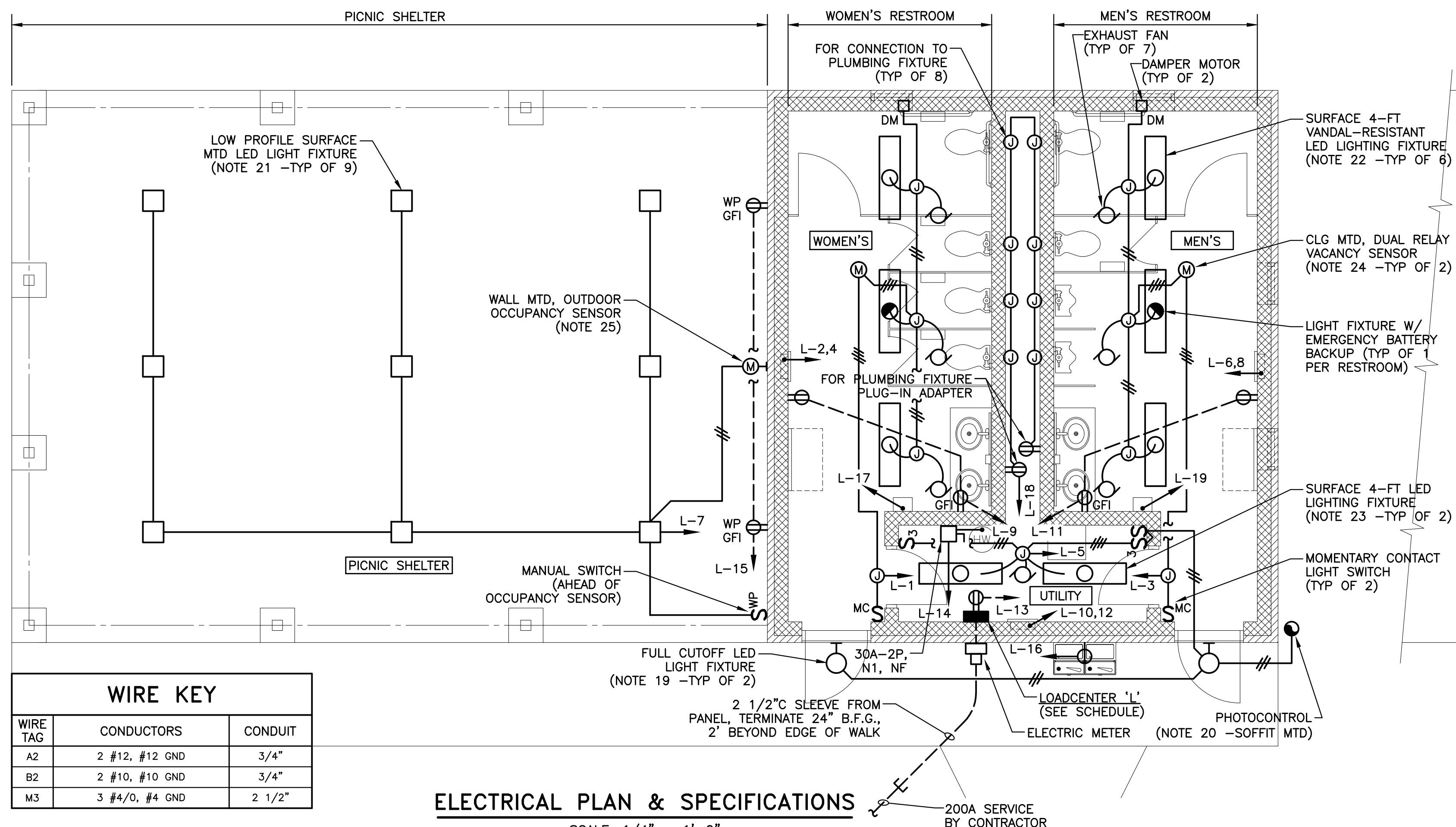
PROFESSIONAL CERTIFICATION  
I, EDWARD JOSEPH VAN ARSDALE,  
III, P.E. hereby certify that these  
documents were prepared or  
approved by me,  
and that I am a duly licensed  
professional engineer under the laws  
of the State of Maryland,  
License No. 36561  
Expiration Date: 3/31/2024

CLIENT & PROJECT  
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INDIAN HEAD RESTROOM FACILITY  
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**ARRG**  
201 Thomas Johnson Drive, Suite 207  
Frederick, Maryland 21702  
Tel 301.791.1100

TITLE PICNIC SHELTER/RESTROOM STRUCTURAL FLOOR PLAN & ELEVATIONS			
SCALE AS NOTED	DWG. NO. S-1		
PROJECT NO. 10611	SHEET NO. 9 OF 13	REV.	





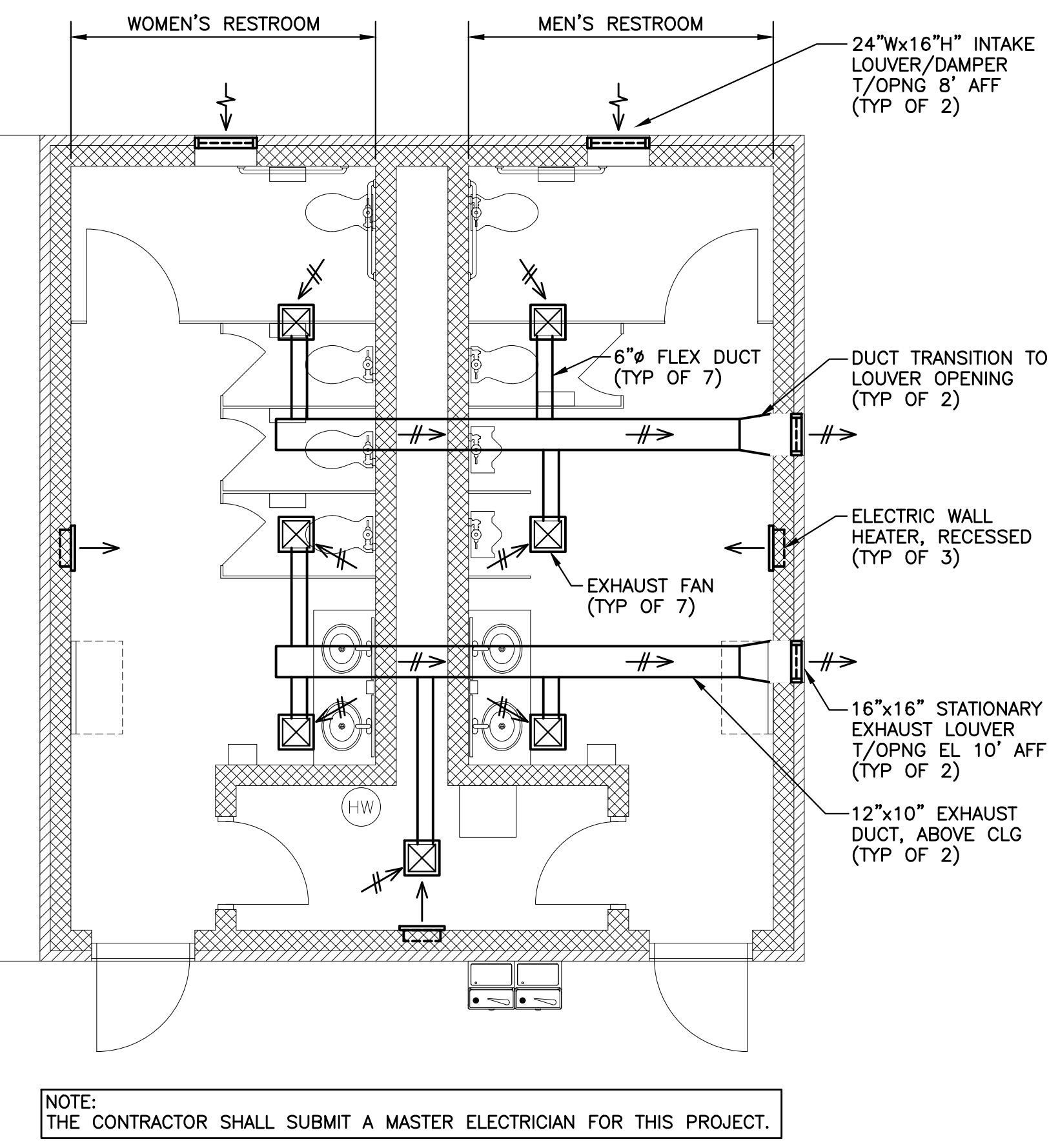
**ELECTRICAL PLAN & SPECIFICATIONS**

SCALE: 1/4" = 1'-0"

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS OF THE OWNER. INSTALLATION OF EQUIPMENT AND CONTROLS SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND RECOMMENDATIONS, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES.
- PROVIDE SHOP DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR: LOADCENTERS, SECONDARY SURGE ARRESTERS, CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING, HEATERS. INFORMATION SHALL BE ORIGINAL PRINTED DOCUMENTS, NOT PHOTOCOPIES. INFORMATION SHALL STATE PROJECT NAME, MODEL NUMBERS, SERIAL NUMBERS, ETC.
- AN ELECTRICAL INSPECTION CERTIFICATE SHALL BE PROVIDED FROM A STATE LICENSED AND OWNER APPROVED INSPECTION AGENCY.
- ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER.
- ALL EQUIPMENT SHALL BE UL LISTED AND LABELED WHERE APPLICABLE.
- SURFACE MOUNTED, RECESSED OR ABOVE CEILING INDOOR WIRING MAY BE IN EMT WITH SET-SCREW FITTINGS; 3/4" MINIMUM SIZE FOR ALL CONDUIT; STUB-UP FROM BELOW GRADE MUST BE RGS CONDUIT COATED WITH BITUMASTIC PAINT; METALLIC FLEXIBLE CONDUIT LIMITED TO 24 INCH LENGTH.
- BUILDING WIRE SHALL BE THWN, #12 GAUGE MINIMUM SIZE, COPPER; SOLID CONDUCTOR FOR #8 GAUGE AND SMALLER, STRANDED FOR LARGER CONDUCTORS.
- GROUNDING SHALL BE IN ACCORDANCE WITH THE NEC, DRIVE 3/4" X 10' - 0 COPPER-CLAD STEEL GROUND ROD; BELOW GRADE WIRE SHALL BE STRANDED BARE COPPER; BELOW GRADE GROUNDING AND GROUND ROD CONNECTIONS SHALL BE MADE USING THE EXOTHERMIC METHOD.
- EXPOSED OUTLET, JUNCTION BOXES, AND FITTINGS SHALL BE CAST; NO WHITE METAL FITTINGS OR BOXES. STEEL BOXES PERMITTED ONLY WHERE RECESSED OR ABOVE CEILING.
- RECEPTACLES - PASS & SEYMOUR, HUBBELL, OR COOPER WIRING DEVICES OR EQUAL, 20-AMP, 120 VOLTS, SPEC-GRADE; CORROSION RESISTANT WHERE NOTED; AND GFI #XHGF20B; FS COVER PLATES INDOORS; IN-USE WP COVERS FOR OUTDOORS.
- SWITCHES, 20-AMP, 120/277 VOLTS, SPEC-GRADE, PASS&SEYMOUR, HUBBELL, COOPER WIRING DEVICES #2221B OR EQUAL, FS COVER PLATE INDOORS, WP COVER OUTDOORS.
- TRENCHING AND BACKFILL AS REQUIRED; 24-INCH MINIMUM DEPTH FOR CONDUITS; REMOVE ALL VEGETATION AND STONES LARGER THAN 2-INCHES IN DIAMETER FROM THE BACKFILL; TAMP IN 6-INCH LAYERS; RESTORE AREA.
- DISCONNECT SWITCH, NEMA 1 ENCLOSURE, GENERAL-DUTY, NONFUSED, PADLOCKABLE; SQUARE D, EATON CUTLER-HAMMER, SIEMENS, OR EQUAL.
- LOADCENTER TO BE SQUARE D TYPE QO OR EQUAL FOR 120/240 VOLT, SINGLE-PHASE, THREE-WIRE, NEMA 1 SURFACE MOUNT ENCLOSURE.
- SECONDARY SURGE ARRESTER, HARD WIRED, 36 KA PER PHASE SURGE RATING, 120/240, SINGLE-PHASE THREE-WIRE; MEETS ANSI/IEEE C62.11-1993 AND NEC ARTICLE 285; SERVICE ENTRANCE RATED; NEMA 4X; PANELBOARD MOUNTING BRACKET; SQUARE D SDSA1175, QOSAMK (BRACKET) OR EQUAL.
- ALL HARDWARE SHALL BE GALVANIZED STEEL.
- WORK WITH TOWN OF INDIAN HEAD TO PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT, AND LABOR TO EFFECT A COMPLETE INSTALLATION.
- SERVICE COORDINATION: CONTRACTOR TO PROVIDE LOADCENTER WITH CONDUIT STUBBED TO OUTSIDE OF BUILDING AS INDICATED ON PLAN. CONTRACTOR TO PROVIDE UNDERGROUND SERVICE CONDUCTORS INTO BUILDING AND MAKE CONNECTION TO LOADCENTER MAIN BREAKER. TOWN OF INDIAN HEAD TO PROVIDE ALL COORDINATION WITH ELECTRIC UTILITY COMPANY REGARDING PROVISION OF SERVICE AND METERING AND WILL PAY FOR ALL UTILITY INSTALLATION COSTS.

- EXTERIOR LIGHT FIXTURES: FULL CUT-OFF WALL MOUNT LED; 120 VOLT; IMPACT RESISTANT POLYCARBONATE HOUSING; DIE-CAST ALUMINUM DRIVER HOUSING; CLEAR POLYCARBONATE LENS; 26 WATT LED, 5000K, 1963 LUMENS; DARK BRONZE FINISH; INTEGRAL EMERGENCY BATTERY BACKUP; UL LISTED WET LOCATION; KENALL CAT.#FN15L-4-7-DB-26L50K-120-LEL OR EQUAL.
- PHOTOCONTROL: HIGH IMPACT HOUSING WITH CLEAR WINDOW; LIGHT SENSITIVE ELEMENT, HERMETICALLY SEALED; 1 TO 4 TURN-ON-TURN-OFF RATIO; 1.5 FC STANDARD TURN-ON; 15 SECOND TIME DELAY; -50°F TO +150°F; NORMALLY CLOSED CONTACTS DURING NIGHT; RATED AT 1900 VA BALLASTED; 120 VOLTS; CONDUIT OR BOX-MOUNT; SWIVEL BASE; PARAGON #CW201S OR EQUAL.
- PICNIC SHELTER LIGHT FIXTURES: LOW PROFILE 12-INCH SQUARE VANDAL RESISTANT LED; DIE-CAST ALUMINUM BASE/PLATE; IMPACT RESISTANT PEARLESCENT POLYCARBONATE LENS; 20 WATT LED, 5000K, 1437 LUMENS; DARK BRONZE FINISH; CEILING MOUNTED TO RECESSED BOX; UL LISTED WET LOCATION; KENALL CAT.#MS11FL-PP-DB-20L50K-SCC-120 OR EQUAL.
- MEN'S & WOMEN'S RESTROOM LIGHT FIXTURES: 4-FOOT SURFACE MOUNTED, VANDAL-RESISTANT LED; MARINE GRADE ALUMINUM HOUSING; IMPACT RESISTANT PEARLESCENT POLYCARBONATE LENS; 45 WATT LED, 3500K, 4632 LUMENS; WHITE FINISH; UL LISTED WET LOCATION (COVERED CEILING MOUNT); KENALL CAT.#MLH4B-4B-R-NH-PP-45L35K-120 OR EQUAL. PROVIDE LED EMERGENCY BATTERY BACKUP, CAT.#LEL, IN FIXTURES INDICATED ON PLAN.
- UTILITY ROOM LIGHT FIXTURES: 4-FOOT SURFACE MOUNTED LED STRIP; STEEL HOUSING; WHITE BAKED ENAMEL FINISH; 23 WATT LED, 3500K, 2800 LUMENS; UL LISTED DAMP LOCATION; COLUMBIA LIGHTING CAT.#LCS4-35LW-EU OR EQUAL.
- MEN'S & WOMEN'S VACANCY SENSORS: CEILING MOUNTED, DUAL RELAY, MANUAL-ON/AUTO-OFF, 1000SF COVERAGE, LOAD RELAY 1-LIGHTS; LOAD RELAY 2-EXHAUST FANS DELAYED 10 MIN OFF; PROTECTIVE CAGE; LEVITON CAT.#04C10-MDW W/ ODCCG-ooW CAGE.
- PICNIC SHELTER OCCUPANCY SENSOR: OUTDOOR RATED; 200' FIELD OF VIEW; 120V; AMBIENT LIGHT OVERRIDE; PROTECTIVE CAGE; LEVITON CAT.#PS200-10 W/ CAGE.

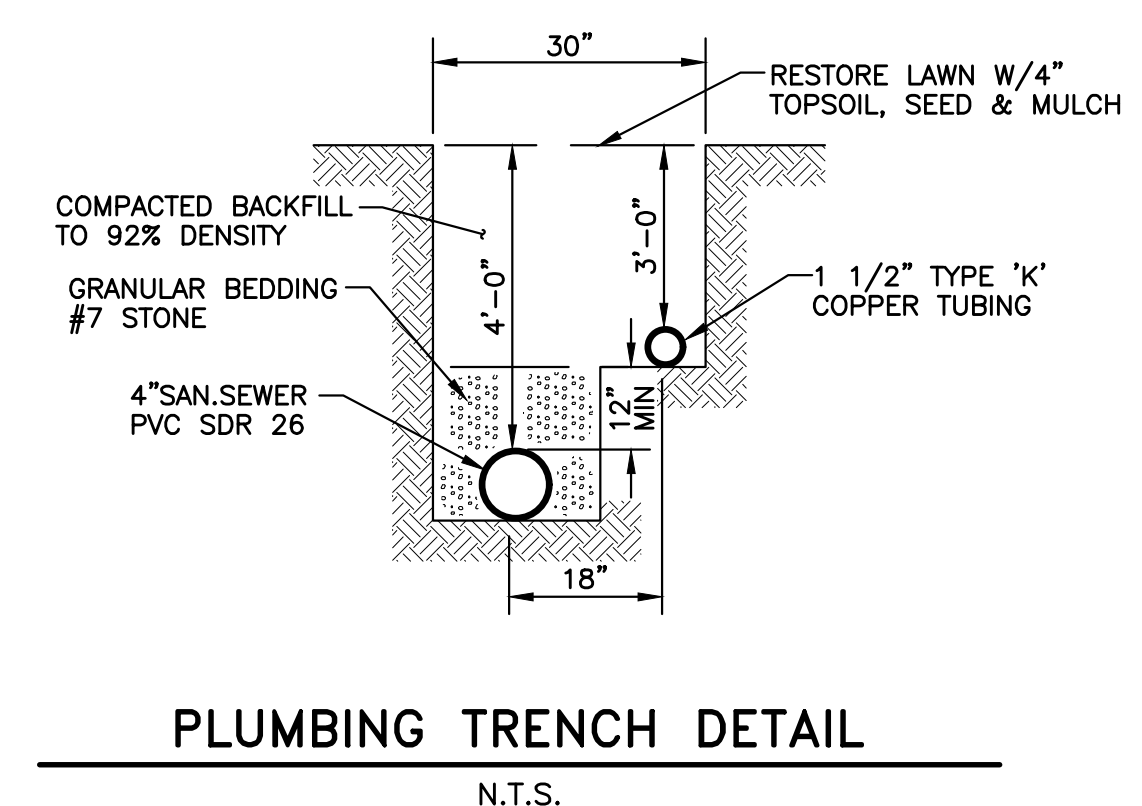
DESCRIPTION	WIRE NO. KEY	LOAD KVA	CIRCUIT TRIP	PHASE	LOAD PHASE	CIRCUIT BREAKERS	LOAD KVA	WIRE NO. KEY	DESCRIPTION	
LIGHTS & FANS-WOMENS	A2	0.3	20	1	A	2	30	B2	HEATER-WOMENS	
LIGHTS & FANS-MENS	A2	0.3	20	3	B	4	30	B2	HEATER-MENS	
LIGHTS & FAN-UTILITY, EXT	A2	0.2	20	5	A	6	30	B2	HEATER-MENS	
LIGHTS-PICNIC AREA	A2	0.2	20	7	B	8	30	B2	HEATER-MENS	
RECEPT-WOMENS	A2	0.4	20	9	A	10	20	A2	HEATER-UTILITY	
RECEPT-MENS	A2	0.4	20	11	B	12	20	A2	HEATER-UTILITY	
RECEPT-UTILITY	A2	0.2	20	13	A	14	20	A2	WATER HEATER	
RECEPT-PICNIC AREA	A2	0.4	20	15	B	16	20	A2	WATER COOLER	
HAND DRYER-WOMENS	A2	1.9	20	17	A	18	20	0.1	A2	PLUMBING FIXTURE SENSORS
HAND DRYER-MENS	A2	1.9	20	19	B	20	20	-	-	SPARE
SPACE	-	-	20	21	A	22	20	-	-	SPACE
-	-	-	20	23	B	24	-	-	-	SPACE
-	-	-	20	25	A	26	-	-	-	SPACE
-	-	-	20	27	B	28	-	-	-	SPACE
-	-	-	20	29	A	30	-	-	-	SPACE
KVA TOTAL		6.2		KVA TOTAL		14.2		85.00 AMPS TOTAL		



**HVAC PLAN & SPECIFICATIONS**

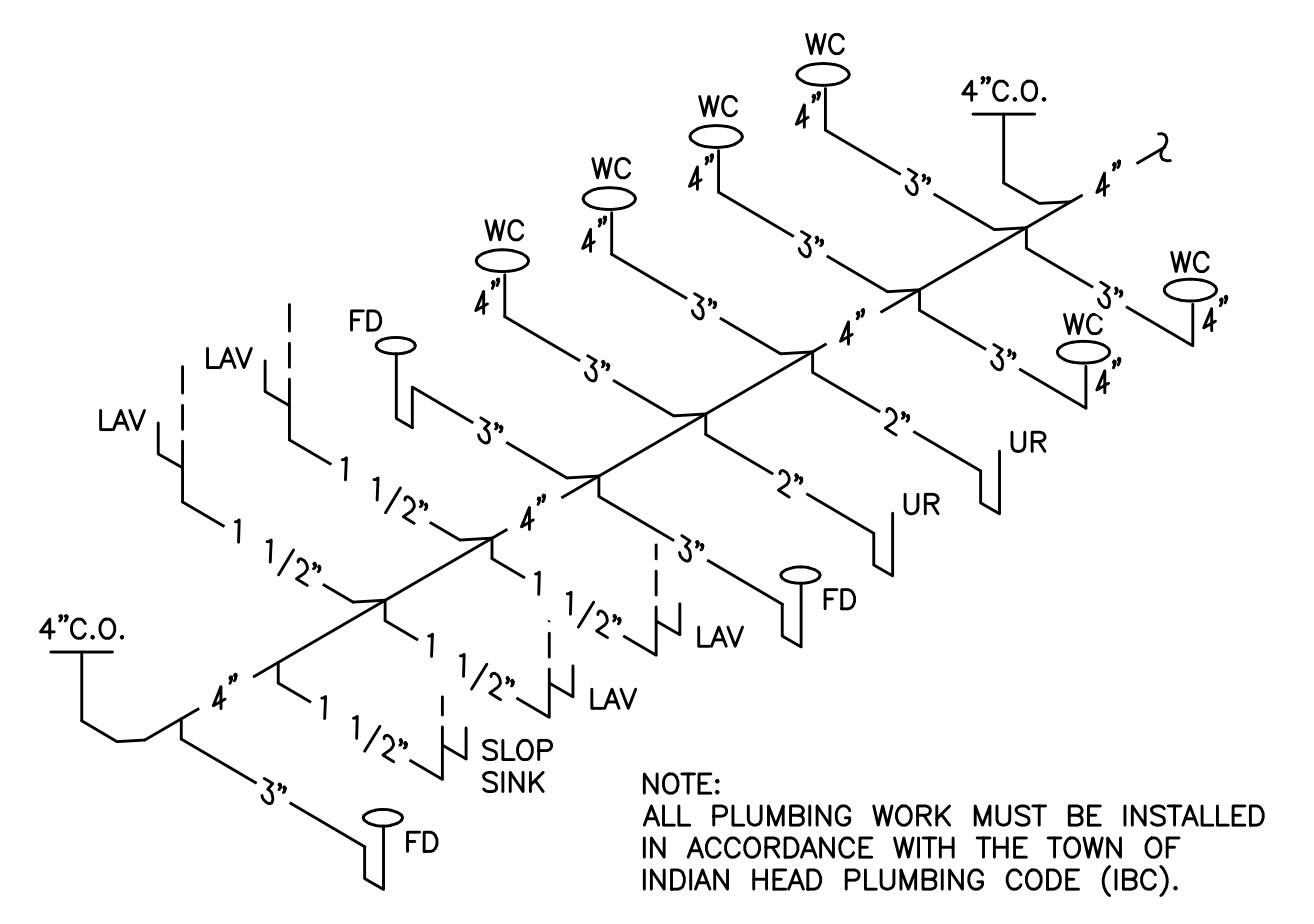
SCALE: 1/4" = 1'-0"

- ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS SET FORTH BY THE FOLLOWING:
  - AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE)
  - AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
  - AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
  - SHEET METAL AND AIR-CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)
  - UNDERWRITERS' LABORATORIES, INC. (UL)
  - LOCAL BUILDING CODES
- COORDINATE INSTALLATION AND INTERFACING OF ALL EQUIPMENT WITH THE BUILDING & ELECTRICAL CONTRACTORS.
- PROVIDE SHOP DRAWINGS, OPERATIONS AND MAINTENANCE (O&M) MANUALS, AND PARTS LISTS, FOR: FAN/LIGHTS, LOUVERS, WALL HEATERS.
- SHOP DRAWINGS, O&M MANUALS, AND PARTS LISTS SHALL IDENTIFY AND HIGHLIGHT THE INFORMATION AND DATA THAT IS SPECIFIC TO THE EQUIPMENT THAT IS SUPPLIED FOR THIS PROJECT. MODEL NUMBERS, PART NUMBERS, AND SERIAL NUMBERS SHALL ALSO BE HIGHLIGHTED AND IDENTIFIED THROUGHOUT THE O&M MANUALS.
- ALL EQUIPMENT SHALL BE UL LISTED AND LABELED WHERE APPLICABLE.
- SHOP FABRICATED DUCTWORK: SHOP FABRICATE DUCTWORK OF GALVANIZED SHEET STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A527 AND STANDARDS SET FORTH BY SMACNA. GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A525. COATING DESIGN 900. DUCT SHALL BE CAPABLE OF WITHSTANDING 5 INCHES POSITIVE/NEGATIVE STATIC PRESSURE. DUCT SHALL BE SEALED IN ACCORDANCE WITH SEAL CLASS C.
- PREFABRICATED FLEXIBLE METAL DUCT: NON-INSULATED HELICAL CORRUGATED ALUMINUM ROUND DUCT DESIGNED TO RETAIN ITS ROUND SHAPE, AS WELL AS ITS STRENGTH AND CROSS SECTION, WHILE BEING BENT TO ALMOST ANY CONFIGURATION. DUCT SHALL REMAIN RIGID BEFORE AND AFTER BENDING. UNITED SHEET METAL DIVISION OF UNITED MCGILL CORP., OR EQUAL.
- INSTALL DUCTWORK AND PROVIDE SUPPORT IN ACCORDANCE WITH SMACNA STANDARDS.
- COMBINATION INTAKE LOUVER/DAMPERS: 16" H X 24" W, 4" DEEP, DRAINABLE, 6063T5 EXTRUDED ALUMINUM FRAME AND 0.081 INCH NOMINAL WALL THICKNESS, 1/2" BIRD SCREEN IN REMOVABLE FRAME ON INSIDE, VINYL BLADE EDGE SEALS AND COMPRESSIBLE STAINLESS STEEL JAMB SEALS, KYNAR FINISH, COLOR BY TOWN, GREENHECK #ECD-401 OR EQUAL; 120-VOLT MOTOR OPERATOR, SPRING CLOSE - POWER OPEN.
- STATIONARY EXHAUST LOUVERS: 16" H X 16" W, 4" DEEP, DRAINABLE, 6063T5 EXTRUDED ALUMINUM FRAME AND 0.081 INCH NOMINAL WALL THICKNESS, 1/2" BIRD SCREEN IN REMOVABLE FRAME ON INSIDE, EXTENDED SILL, KYNAR FINISH, COLOR BY TOWN, GREENHECK #ELF445DX OR EQUAL.
- EXHAUST FAN: CORROSION RESISTANT GALVANIZED STEEL HOUSING; REMOVABLE BLOWER ASSEMBLY WITH PERMANENTLY LUBRICATED MOTOR; NON-METALLIC BACKDRAFT DAMPER/DUCT CONNECTOR FOR 6" ROUND DUCTWORK; AIR DELIVERY NO LESS THAN 150 CFM @ 0.1" PS; SOUND LEVEL NO GREATER THAN 2.5 SONES @ 0.1" PS; UL LISTED FOR USE IN INSULATED CEILING; NUTONE #QTXEN150 OR EQUAL. CONTROLLED THROUGH LIGHT SWITCH AND VACANCY SENSOR (SEE ELECTRICAL PLAN & SPECIFICATIONS).
- WALL HEATERS: RECESSED MOUNTED FAN FORCED WALL HEATER; VANDAL-RESISTANT DESIGN; HEAVY-DUTY WELDED STEEL LOUVERED GRILLE; TAMPERPROOF; INTEGRAL TAMPER-RESISTANT THERMOSTAT, BREAKS ALL UNGROUND CONDUCTORS IN OFF; TOTALLY ENCLOSED, CORROSION-RESISTANT FINNED HEATING ELEMENT; MEN'S & WOMEN'S RESTROOMS -5KW, 240V-1Ø, TRANE CAT.#UHWAO51B2T20; UTILITY ROOM -2KW, 240V-1Ø, TRANE CAT.#UHWAO21B2T20; OR APPROVED EQUAL.



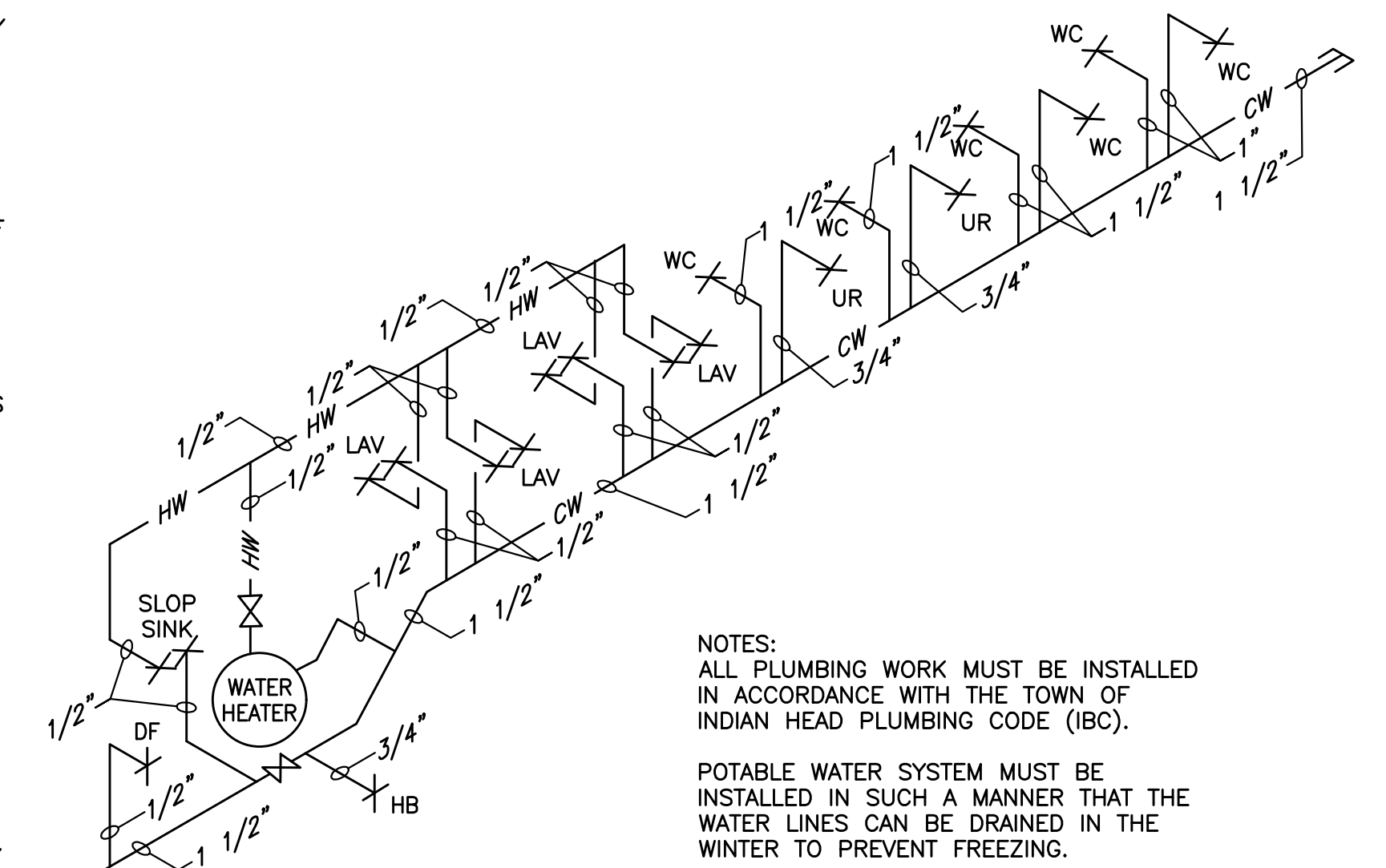
**PLUMBING TRENCH DETAIL**

N.T.S.



**PLUMBING - WASTE RISER DETAIL**

N.T.S.



**PLUMBING - WATER RISER DETAIL**

N.T.S.

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION								
0	ISSUED FOR BID								
D	CLIENT COMMENTS	02/02/16	JLW	RD					
C	CLIENT COMMENTS	11/13/13	AM	RD					
B	CLIENT COMMENTS	3/21/13	AM	RD					
A	ISSUED TO CLIENT	2/18/13	AM	RD					

EDWARD J. VAN ARSDALE, PE  
 RELEASED BY: R.D. PARKS, P.E.  
 DESIGN: R.D. PARKS, P.E.  
 DRAWN: SAM  
 DATE: MARCH 2022  
 SURVEY DATE: FIELD BOOK

PROFESSIONAL CERTIFICATION  
 I, EDWARD JOSEPH VAN ARSDALE, III, P.E. hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 33661, Expiration Date: 3/31/2024

CLIENT & PROJECT  
 TOWN OF INDIAN HEAD  
 4195 INDIAN HEAD HIGHWAY  
 INDIAN HEAD, MARYLAND, 20640  
 INDIAN HEAD RESTROOM FACILITY  
 INDIAN HEAD, CHARLES COUNTY, MARYLAND

**ARRC**  
 201 Thomas Johnson Drive, Suite 207  
 Frederick, Maryland 21702  
 Tel 301.791.1100

TITLE: PICNIC SHELTER/RESTROOM MECHANICAL/ELECTRICAL/PLUMBING PLANS, SPECIFICATIONS & DETAILS

SCALE: 0 2 4 8 12 DWG. NO. MEP-1

PROJECT NO. 10611 SHEET NO. 10 OF 13 REV.



SIGNAGE AND PAVEMENT MARKING KEY

EXISTING SIGNAGE	
SYMBOL	NAME
1	STOP
2	SPEED LIMIT
3	NO PARKING
4	STREET NAME

PROPOSED SIGNAGE				
SYMBOL	NAME	REF	SIZE	COLOR
A	PEDESTRIAN CROSSING	W11-2	30X30	YELLOW
	ARROW	W16-7P	24X12	
B	NO PARKING	R8-3	24X24	WHITE
C	STOP	R1-1	30X30	RED
D	NO PARKING TO CORNER	R7-11	12X18	WHITE

PROPOSED PAVEMENT MARKINGS	
SYMBOL	DESCRIPTION
E	5" WIDE LINES, WHITE THERMOPLASTIC
F	24" WIDE LINES, WHITE THERMOPLASTIC
G	6" WIDE LINES, WHITE THERMOPLASTIC
H	WHITE PAINTED HC SYMBOL

PROPOSED TEMPORARY MOT SIGNAGE				
SYMBOL	NAME	REF	SIZE	COLOR
I	SIDEWALK CLOSED	R9-9	24X12	WHITE
J	ROAD WORK AHEAD	W20-1	36X36	ORANGE
K	END ROAD WORK	G20-2	36X18	ORANGE

SEQUENCE OF CONSTRUCTION

1. PROVIDE ADVANCE WARNING SIGNAGE IN ACCORDANCE WITH SHA STANDARDS.
2. PROVIDE PROTECTION OF TRAFFIC IN ACCORDANCE WITH MAINTENANCE OF TRAFFIC PLAN AND SHA STANDARDS FOR PHASE 1. A TEMPORARY CROSSWALK PER STANDARD NO. MD 104.06-09C WILL BE PROVIDED FOR PEDESTRIANS.
3. PHASE 1: REMOVE AND REPLACE SIDEWALK ALONG CORNWALLIS COURT BETWEEN MILDRED RICE ROAD AND WALTER THOMAS ROAD. COMPLETE FINAL RESTORATION.
4. REMOVE PROTECTION OF TRAFFIC FOR PHASE 1 ONCE COMPLETE.
5. REVISE ADVANCE WARNING SIGNAGE FOR PHASE 2 IN ACCORDANCE WITH SHA STANDARDS.
6. PROVIDE PROTECTION OF TRAFFIC IN ACCORDANCE WITH MAINTENANCE OF TRAFFIC PLAN AND SHA STANDARDS FOR PHASE 2.
7. PHASE 2: CONSTRUCT ADA RAMP TO CONNECT WALTER THOMAS ROAD PEDESTRIAN CROSSING TO THE PROPOSED BUILDING AND/OR PROPOSED PARKING AREA.
8. REMOVE PROTECTION OF TRAFFIC FOR PHASE 2 ONCE COMPLETE.
9. REVISE ADVANCE WARNING SIGNAGE FOR PHASE 3 IN ACCORDANCE WITH SHA STANDARDS.
10. PROVIDE PROTECTION OF TRAFFIC IN ACCORDANCE WITH MAINTENANCE OF TRAFFIC PLAN AND SHA STANDARDS FOR PHASE 3.
11. PHASE 3: PAINT LINES ALONG PYE STREET AND INSTALL PERMANENT SIGNAGE. COMPLETE FINAL RESTORATION.



R9-8 Sidewalk Closed



G20-1

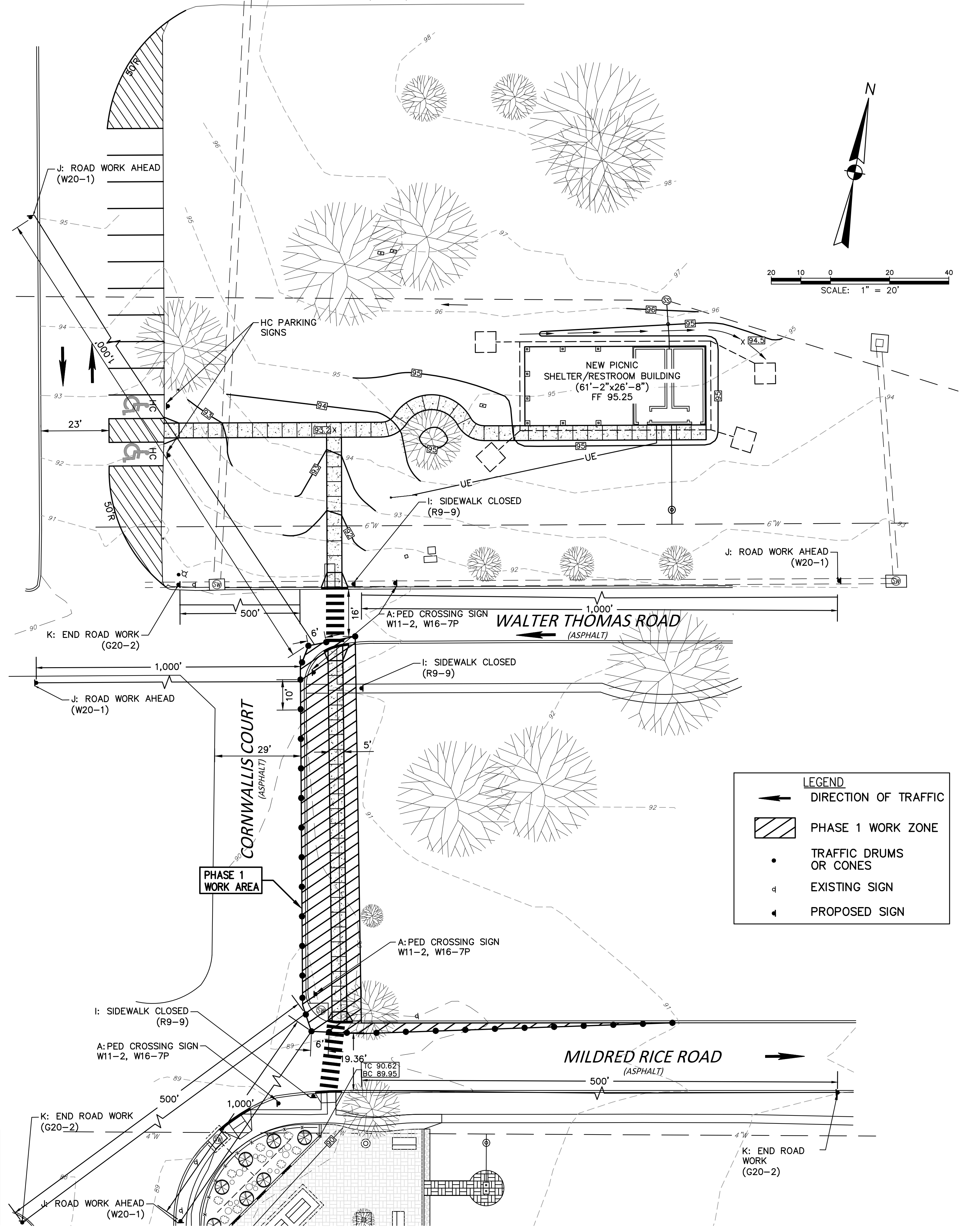


G20-2



W20-1 Road Work (Distance)

Sign image from the Manual of Traffic Signs <http://www.trafficdesign.us/> The sign image copyright Richard C. Moser. All rights reserved.



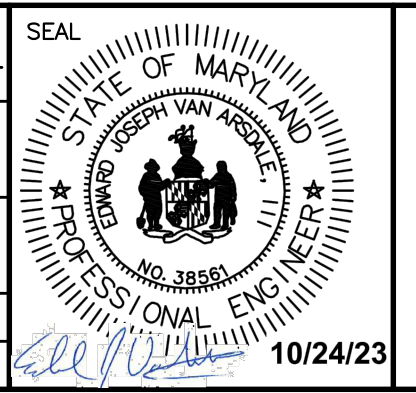
NOTE: BREAKLINES USED IN LIEU OF ACTUAL DISTANCE BETWEEN CONSTRUCTION AND ADVANCED WARNING SIGN PLACEMENT

**LEGEND**

- ➔ DIRECTION OF TRAFFIC
- ▨ PHASE 1 WORK ZONE
- TRAFFIC DRUMS OR CONES
- ◻ EXISTING SIGN
- ◻ PROPOSED SIGN

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
					1	ISSUED FOR CONSTRUCTION			
					0	ISSUED FOR BID			

EDWARD J. VAN ARSDALE, PE	CHECKED
DESIGN R.D. PARKS, P.E.	CHECKED
DRAWN C. LAWYER	SURVEY DATE MARCH 2022
DATE MARCH 2022	FIELD BOOK



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TOWN OF INDIAN HEAD  
4195 INDIAN HEAD HIGHWAY  
INDIAN HEAD, MARYLAND, 20640  
  
INDIAN HEAD RESTROOM FACILITY  
INDIAN HEAD, CHARLES COUNTY, MARYLAND



TITLE MAINTENANCE OF TRAFFIC PLAN			
SCALE AS NOTED	DWG. NO. MOT-1		
PROJECT NO. 10611	SHEET NO. 11 OF 13	REV.	



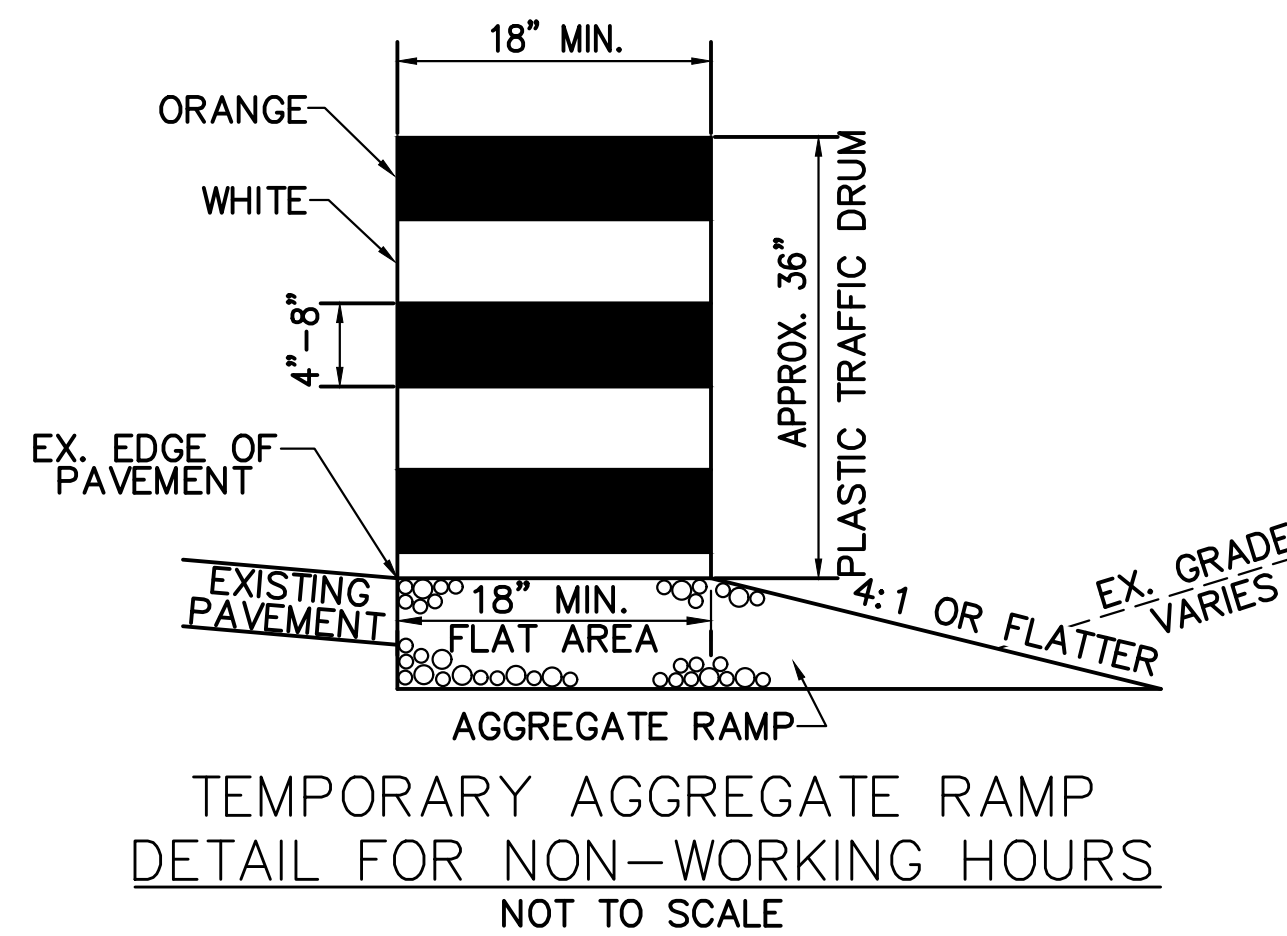
SIGNAGE AND PAVEMENT MARKING KEY

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4	STREET NAME

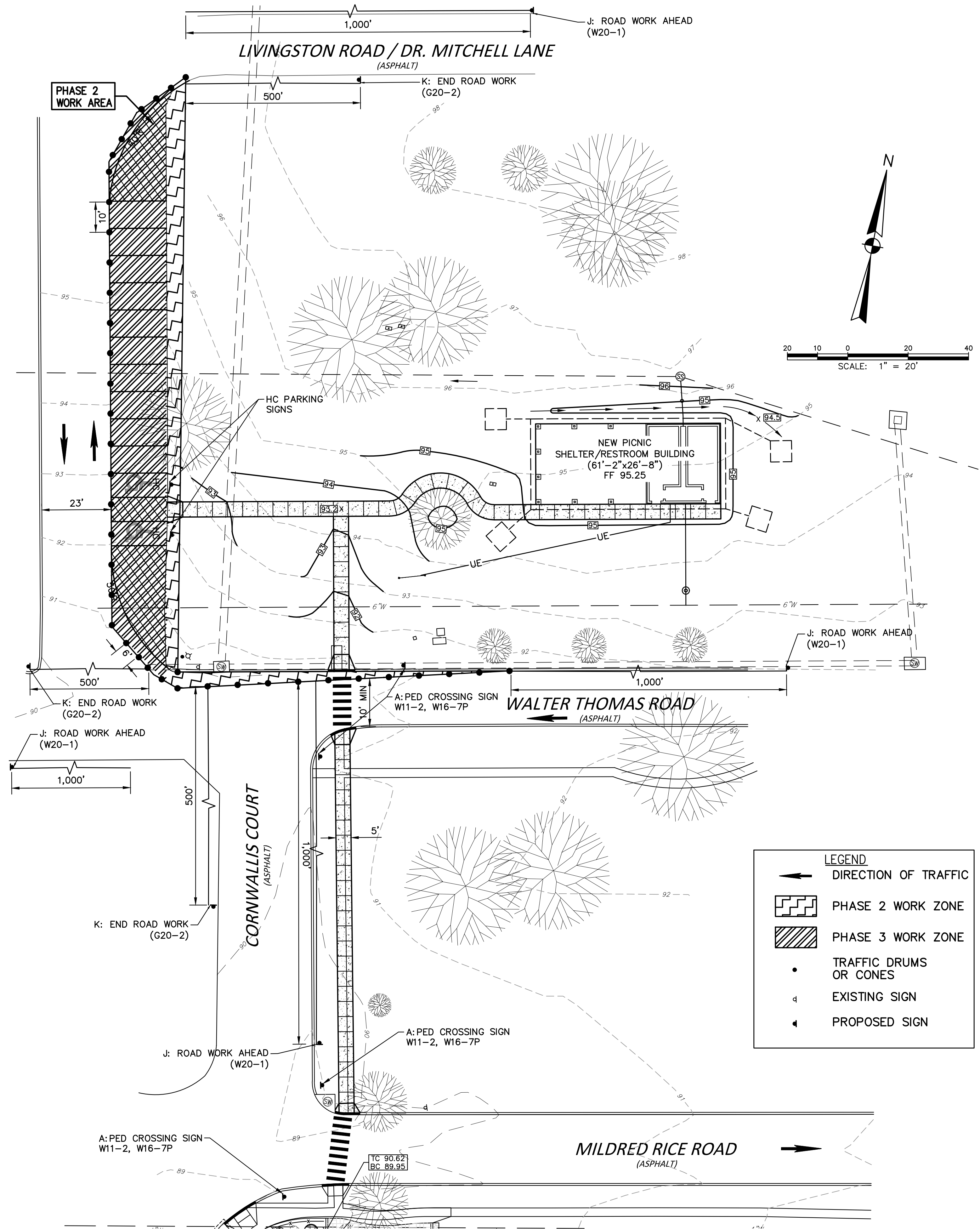
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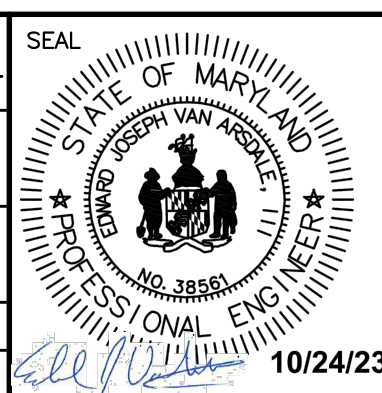
NOTE:  
BREAKLINES USED IN LIEU OF ACTUAL DISTANCE BETWEEN CONSTRUCTION AND ADVANCED WARNING SIGN PLACEMENT



LEGEND	
	DIRECTION OF TRAFFIC
	PHASE 2 WORK ZONE
	PHASE 3 WORK ZONE
	TRAFFIC DRUMS OR CONES
	EXISTING SIGN
	PROPOSED SIGN

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
1	ISSUED FOR CONSTRUCTION								
0	ISSUED FOR BID								

EDWARD J. VAN ARSDALE, PE	CHECKED
DESIGN R.D. PARKS, P.E.	CHECKED
DRAWN C. LAWYER	CHECKED
DATE MARCH 2022	SURVEY DATE FIELD BOOK



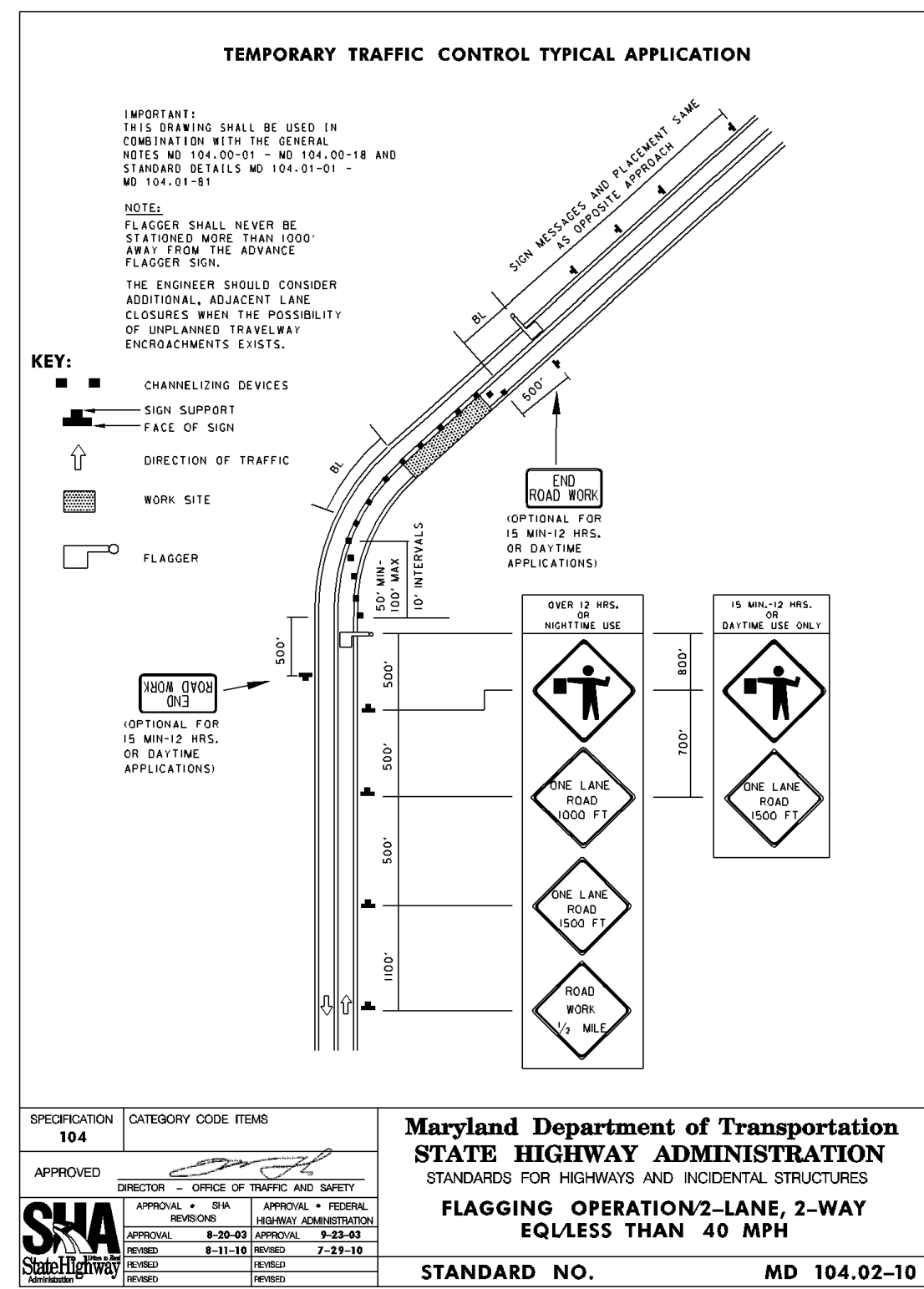
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INDIAN HEAD, MARYLAND, 20640  
  
INDIAN HEAD RESTROOM FACILITY  
INDIAN HEAD, CHARLES COUNTY, MARYLAND



TITLE			
MAINTENANCE OF TRAFFIC PLAN			
SCALE		AS NOTED	
PROJECT NO.	SHEET NO.	REV.	DWG. NO.
10611	12 OF 13		MOT-2





**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION**  
**TEMPORARY TRAFFIC CONTROL DEVICE SELECTION CHART**

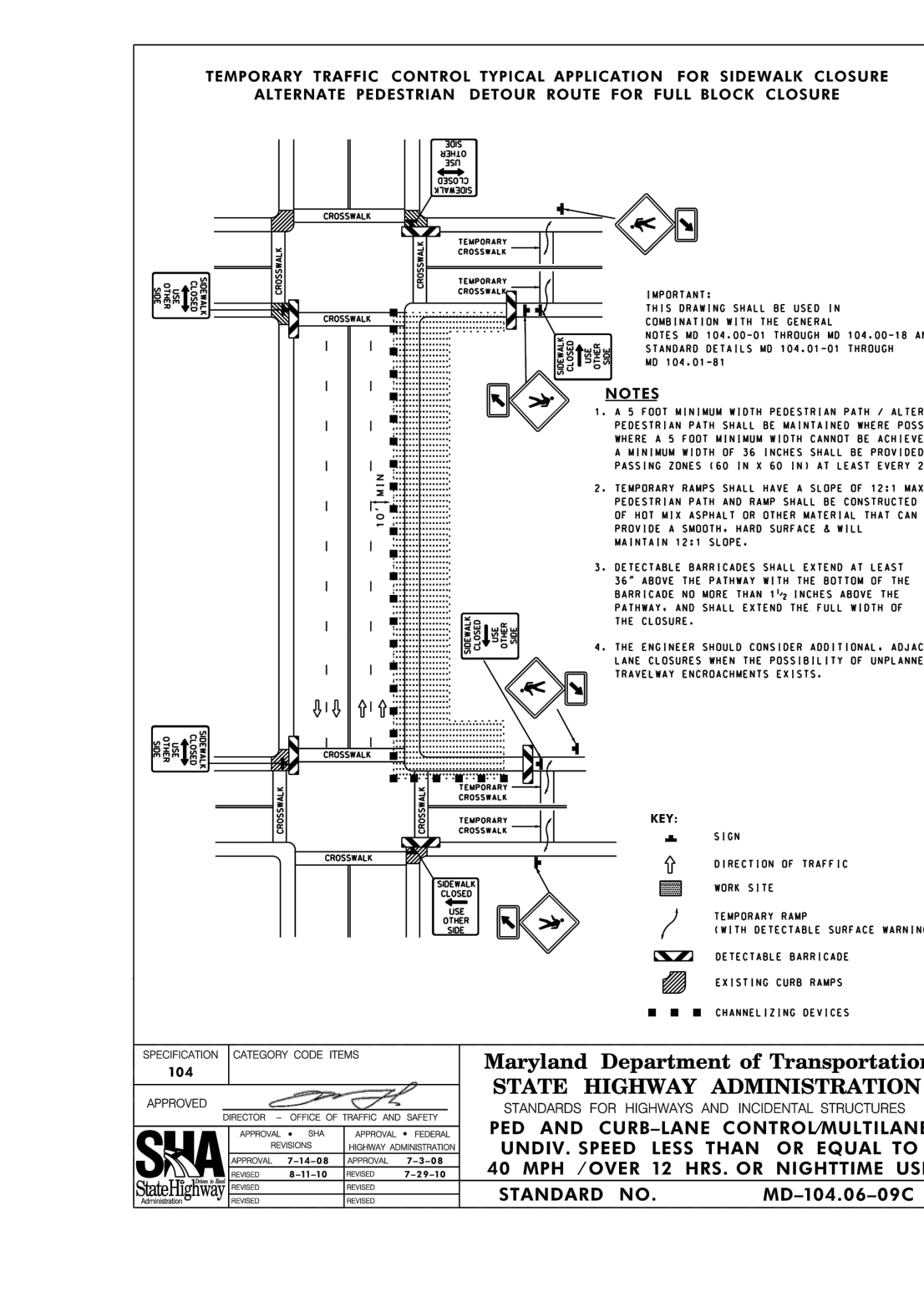
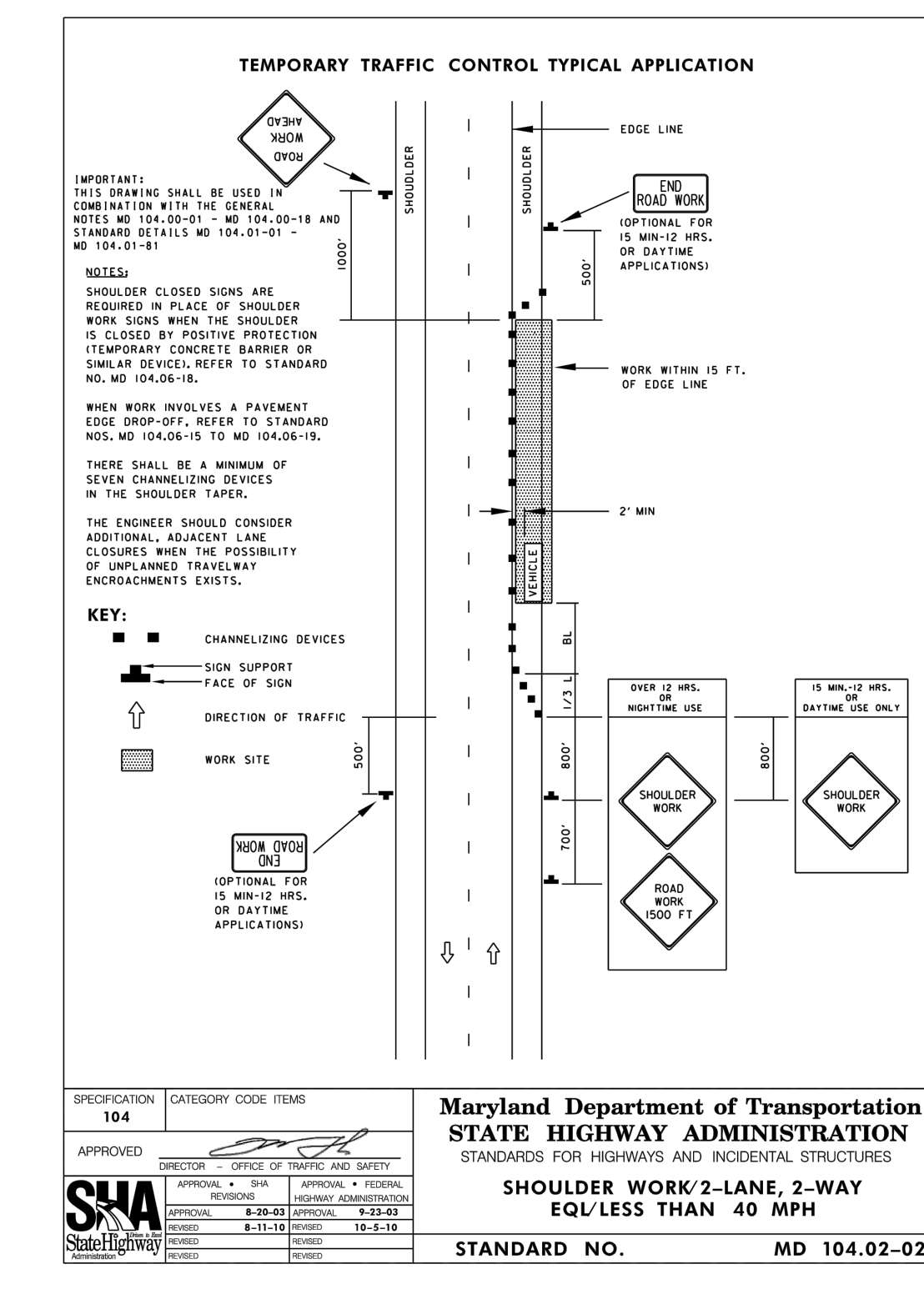
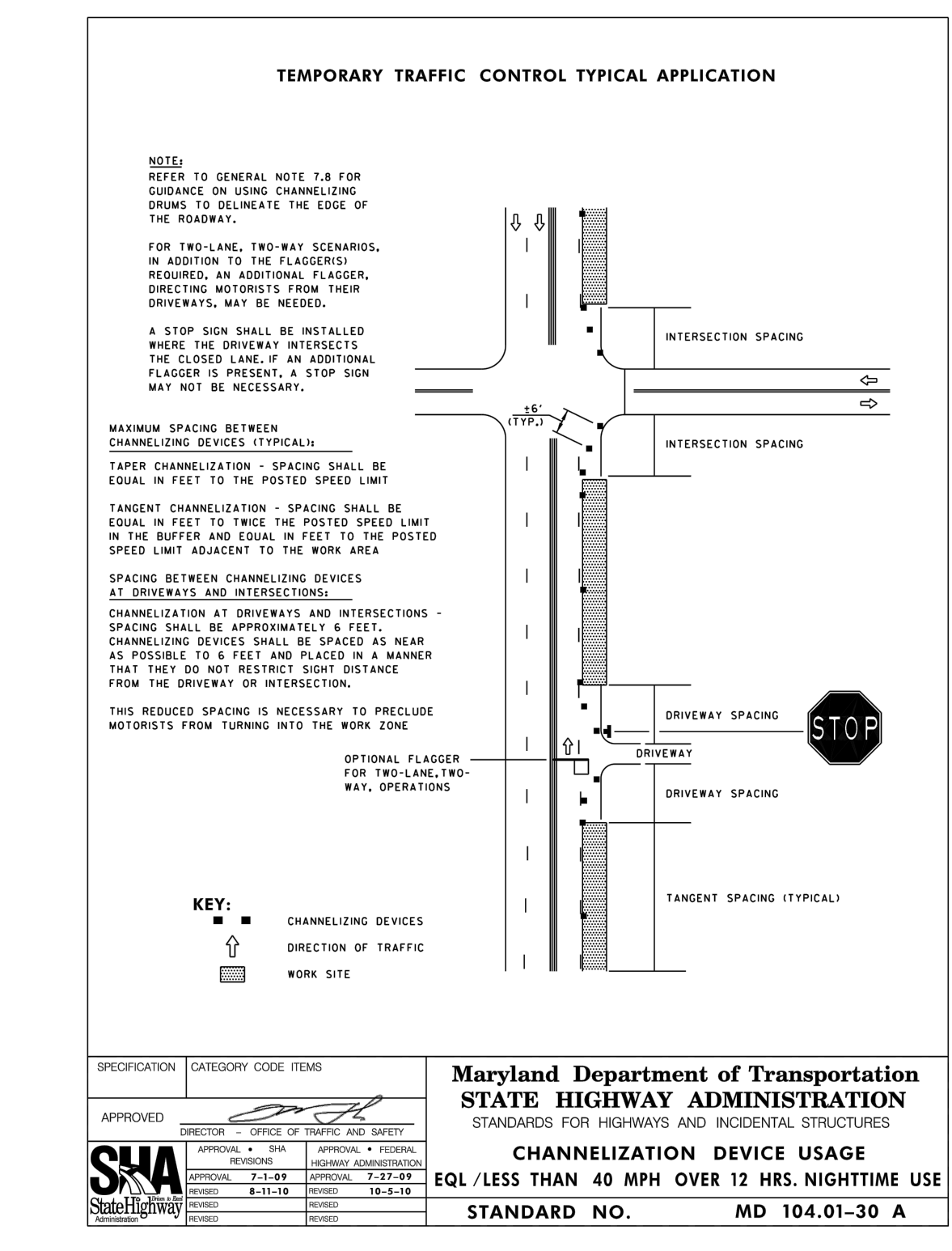
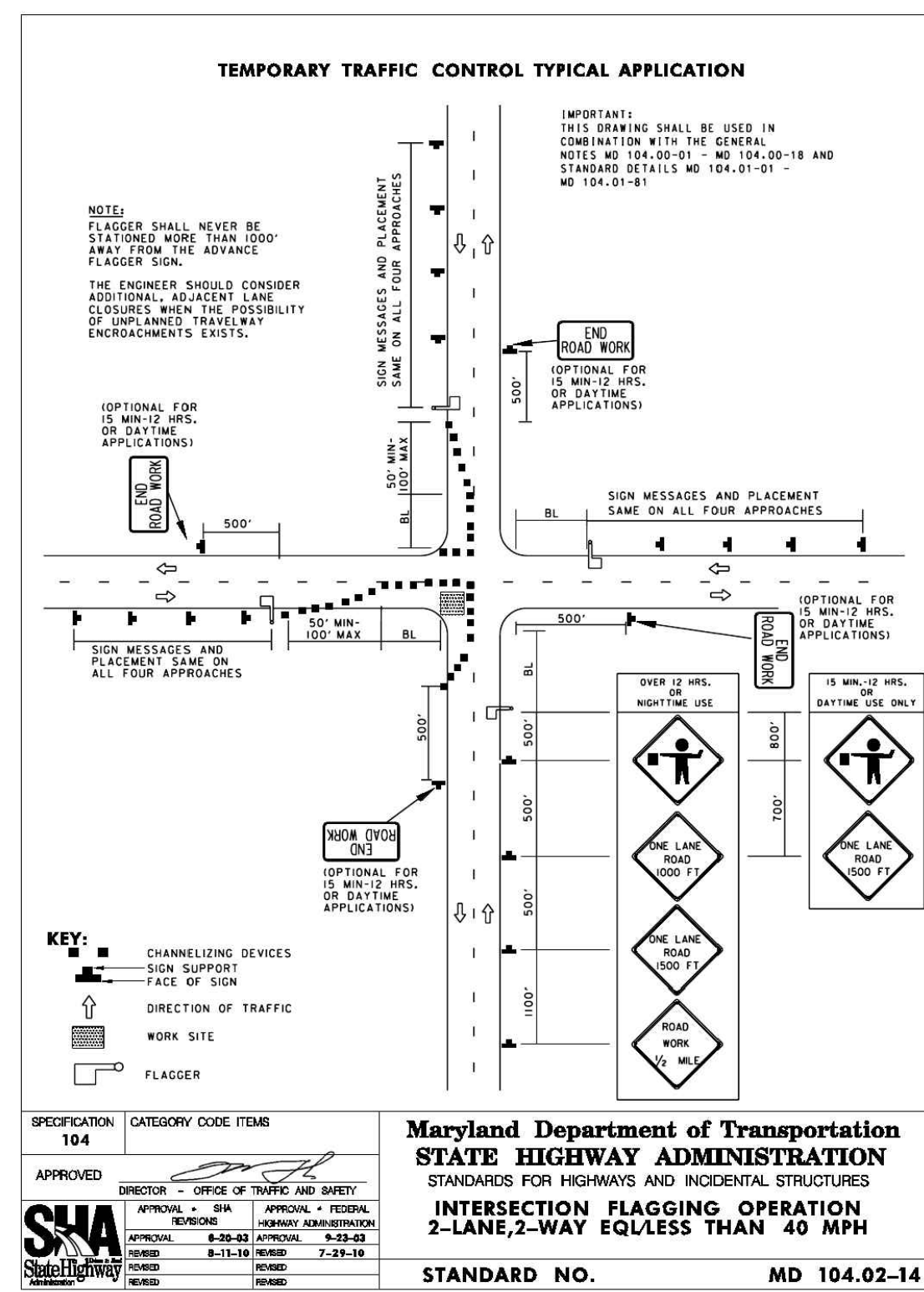
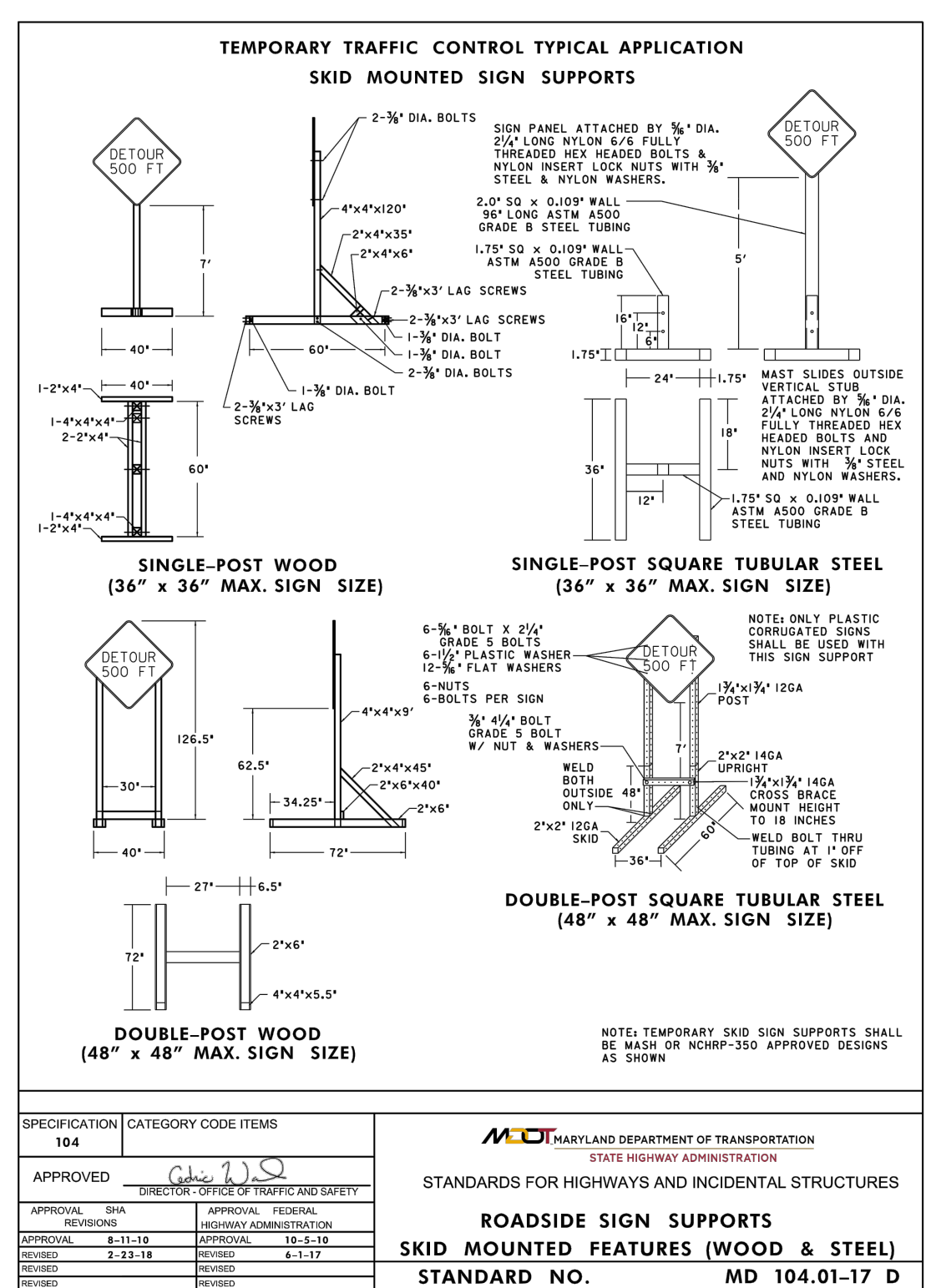
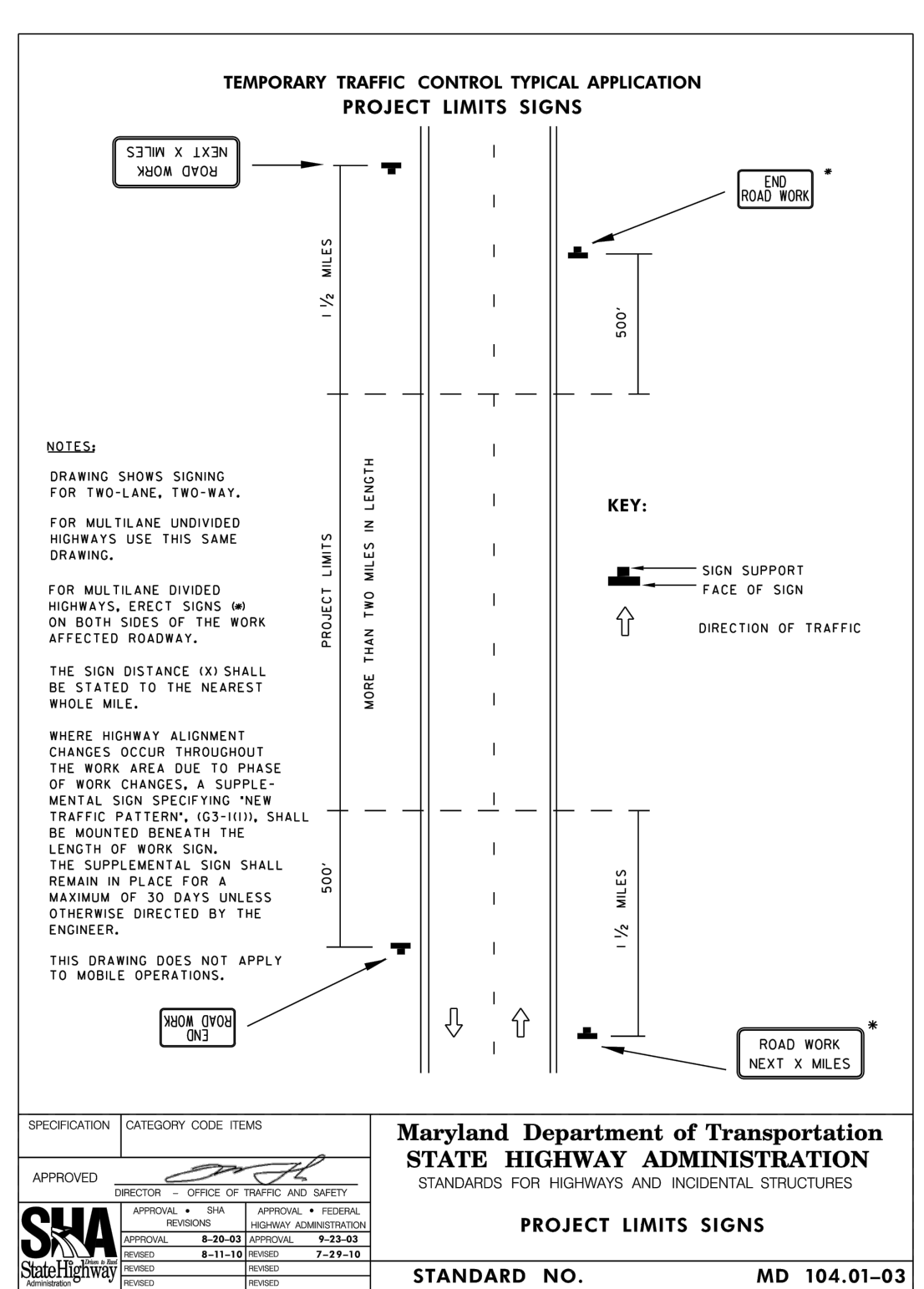
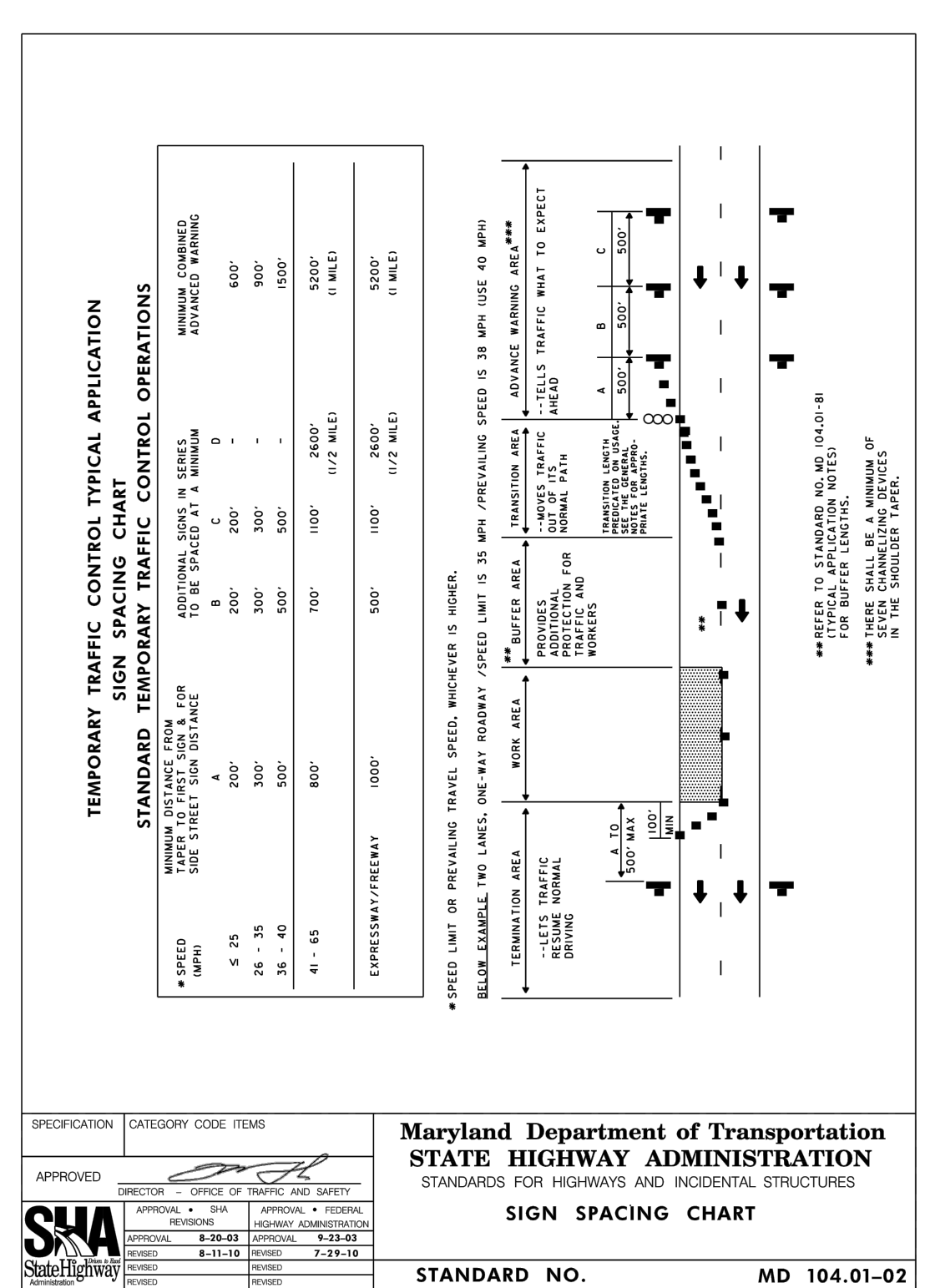
**TWO-LANE, TWO-WAY**

LOCATION OF WORK	SPEED	DURATION	VEHICLE LISTS	MARKINGS	FLASHER	STANDARD TRAFFIC CONTROL DEVICES	PROTECTIVE VEH
ON ROAD	> 40 MPH	3-12 HRS/DARK				FLASHER	
		15 MIN-12 HRS/DAY				FLASHER	
ADJ TO ROAD	< 40 MPH	3-12 HRS/DARK				VEHICLE LISTS	
		15 MIN-12 HRS/DAY				VEHICLE LISTS	

**KEY:** X - REQUIRED, / - OPTIONAL

- TRAVELING BELOW THE POSTED SPEED (BY MORE THAN 15 MPH)
- FOR MOVING OPERATIONS THE APPROPRIATE ADVANCE WARNING SIGNS MAY BE VEHICLE MOUNTED.
- WITHIN 15' OF THE EDGE LINE OR WITHIN 2' BEHIND THE FACE OF CURB
- PROTECTION VEHICLE SHALL BE USED ON TWO-LANE, TWO-WAY ROADWAYS WITH POSTED SPEEDS GREATER THAN OR EQUAL TO 55 MPH IN CONFORMANCE WITH SECTION 104.4 OF THE GENERAL NOTES.

Maryland Department of Transportation  
STATE HIGHWAY ADMINISTRATION  
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES  
TEMPORARY TRAFFIC CONTROL DEVICE SELECTION CHART  
STANDARD NO. MD 104.01-08



- NOTES:**
- ACCESS TO EXISTING DRIVEWAYS WITHIN WORK AREA SHALL BE MAINTAINED AT ALL TIMES.
  - CONTRACTOR SHALL COORDINATE WITH ALL ONGOING CONSTRUCTION WORK IN THE AREA, TO RESOLVE ANY/ALL ISSUES THAT WOULD BE A CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
  - ACCESS TO AND FROM ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
  - CONTRACTOR TO MAINTAIN MINIMUM OF 10' WIDTH FOR THE DRIVE LANE DURING CONSTRUCTION.
  - ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PAVEMENT DROP-OFF GUIDELINES, AND IN A MANNER THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGH CONSTRUCTION.
  - THE CONTRACTOR SHALL REMOVE, RESET OR COVER ANY EXISTING SIGN WHICH IS NO LONGER APPLICABLE OR WHICH MIGHT CREATE CONFUSION TO THE MOTORIST, AS DIRECTED BY THE ENGINEER.
  - ALL TRAFFIC CONTROL DEVICES SHALL BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE SHA'S BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES.
  - ALL CONSTRUCTION SIGNS SHALL BE ORANGE WITH BLACK LETTERING, PER MUTCD.
  - ROADWAYS TO BE RE-OPENED AT THE END OF EACH WORKING DAY.
  - MAINTENANCE OF TRAFFIC CONTROL PLAN SHALL BE SHOWN AS PER MUTCD AND THE MSHA STANDARDS.
  - STANDARD HOURS FOR WORK WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE FROM 9AM TO 3PM ON WEEKDAYS, EXCLUDING HOLIDAY PERIODS.
  - THE FOLLOWING SPECIAL PROVISIONS APPLY TO ROAD CLOSURES OF MORE THAN 15 MINUTES DURATION:
    - ROAD CLOSURES SHALL BE APPROVED BY THE COUNTY HIGHWAY ENGINEER DURING PROJECT DESIGN. THE ENGINEER MAY REQUIRE SPECIFIC SIGNAGE, TIMES OF OPERATION, OR OTHER RESTRICTIONS TO BE SPECIFIED ON THE PLAN.
    - ROAD CLOSURES SHALL NOT BE PERMITTED DURING HOLIDAY SEASONS.
    - VARIABLE MESSAGE SIGN (VMS) SHALL BE PLACED IN EACH DIRECTION 2 WEEKS PRIOR TO STREET CLOSURES AND REMAIN IN PLACE AS DIRECTED BY THE COUNTY HIGHWAY ENGINEER. THE VMS MESSAGES SHALL BE SHOWN ON THE PLAN.
    - ROAD CLOSURES SHALL BE ADVERTISED IN THE LOCAL NEWSPAPER BY THE CONTRACTOR TWICE PER WEEK DURING THE TWO WEEKS PRIOR TO CLOSURE.

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.
					1	ISSUED FOR CONSTRUCTION			
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EDWARD J. VAN ARSDALE, PE	DESIGN	R.D. PARKS, P.E.	CHECKED
C. LAWYER	DRAWN	C. LAWYER	CHECKED
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201 Thomas Johnson Drive, Suite 207  
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TITLE  
MAINTENANCE OF TRAFFIC PLAN

SCALE  
AS NOTED

PROJECT NO.  
10611

SHEET NO.  
13 OF 13

REV.  
MOT-3

DWG. NO.  
MOT-3

DWG. NAME: 10611-MOT.dwg PLOT DATE:10/25/2023 4:15 PM

PLotted BY:OPFERNO, LAUREN