MAD JUNE 2015 ORDER OF SHEETS PROJECT ID: 5640-02-81 TOTAL SHEETS = 50 CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

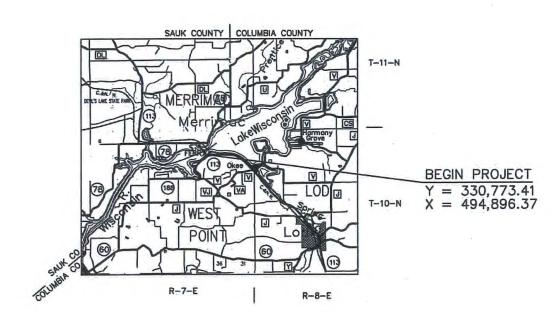
LODI - MERRIMAC

(SOUTH FERRY LANDING WAYSIDE)

STH 113

COLUMBIA COUNTY

STATE PROJECT NUMBER 5640-02-81



LAYOUT

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY DISTANCES MAY BE USED AS GROUND DISTANCES.

COORDINATES, COLUMBIA COUNTY, NADB3 (1988), IN U.S. SURVEY FEET.
VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 5640-02-81

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY MSA PROFESSIONAL SERVICES, INC. MSA PROFESSIONAL SERVICE, INC Designer R. SPOERI Project Manage

ORIGINAL PLANS PREPARED BY:

FILE NAME : P:\90S\93\00093258\CADD\SHEETSOTHER\00093258 TS.DWG LAYOUT NAME - ####

Plan and Profile Standard Detail Drawings

PROJECT LOCATION

PROFILE

GRADE LINE

MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH

GRADE ELEVATION

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL POWER POLE

TELEPHONE POLE

STORM SEWER TELEPHONE WATER

CULVERT (Profile View)

Sign Plates

PLOT DATE : 1/29/2015 8:30 AM

PLOT BY : JEREMY HELLENBRAND PLOT NAME

ABBREVIATIONS

BOC BACK OF CURB BOW BACK OF WALK CONC. CONCRETE

C.R.C.P. CONTINUOUSLY REINFORCED CONCRETE PAVEMENT

ELECTRICAL TRANSFORMER E.T.

FF FINISHED FLOOR FL FLOW LINE HIGHWAY EASEMENT H.E. INLET ELEVATION I.E. LP. IRON PIPE

I.T.S. INTELLIGENT TRANSPORTATION SYSTEMS

NOR. NORMAL

0.E. OUTLET ELEVATION P.E. PRIVATE ENTRANCE PROPERTY LINE P.L.

REINFORCED CONCRETE PIPE STORM SEWER **RCPSS**

REFERENCE LINE R/W RIGHT OF WAY

S.D.D. STANDARD DETAIL DRAWINGS

TOC TOP OF CURB T.P. TELEPHONE PEDESTAL T.S. TRAFFIC SIGNAL

GENERAL NOTES

MISCELLANEOUS

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS A SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT MEETS AN EXISTING PAVED SURFACE. 3.5-INCH ASPHALTIC SURFACE PAVEMENT SHALL BE CONSTRUCTED WITH A 1.75-INCH UPPER LAYER AND

CONSTRUCT CONCRETE SIDEWALK WITH A MAXIMUM CROSS SLOPE OF 2%. CONCRETE SIDEWALK WITH A CROSS SLOPE EXCEEDING 2% WILL BE REMOVED AND REPLACED, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

REMOVALS

NO TREES OR SHRUBS ARE TO BE REMOVED. ALL SHALL BE PROTECTED DURING CONSTRUCTION.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS, OR STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE FIELD ENGINEERS.

GRADING / EROSION CONTROL

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

EROSION CONTROL DETAILS ARE SHOWN ON SEPARATE DETAIL SHEETS.

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN.: ERIC HEGGELUND 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 PHONE: 608-275-3301 EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN .: RAINE GARDNER 1230 SOUTH BOULEVARD BARABOO, WI 53913 PHONE: 608-355-8913 EMAIL: RGARDNER@MSA-PS.COM

UTILITIES

TELEPHONE: FRONTIER ENGINEERING ATTN: JERRY MOORE 2222 WEST WISCONSIN STREET PORTAGE, WI 53901 608-742-9507 EMAIL: JERALD.R.MOORE@FTR.COM

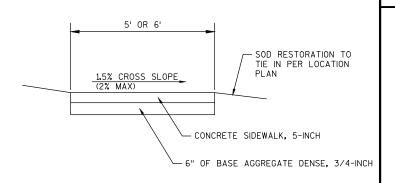
ELECTRIC: ALLIANT ENERGY ATTN: JASON HOGAN 4902 BILTMORE LANE MADISON. WI 53718 608-458-4871 OR 608-395-7395 EMAIL: JASONHOGAN@ALLIANTENERGY.COM

CHARTER COMMUNICIATIONS ATTN: TOM PAYNE 2701 DANIELS ST MADISON. WI 53718 608-274-3822 EXT 6652 EMAIL: TOM.PAYNE@CHARTER.COM

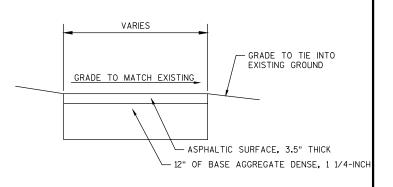
MG&E ATTN: MIKE SAVAGE PO BOX 1231 MADISON, WI 53701-1231 608-252-7069 OR 608-235-2345 EMAIL: MSAVAGE@MGE.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION ATTN: DALE ROTH 3601 PIERSTORFF STREET MADISON. WI 53704 608-245-5355 EMAIL: DALE.ROTH@DOT.WI.GOV





FINISHED CONCRETE SIDEWALK TYPICAL SECTION NOT TO SCALE



FINISHED ASPHALTIC SURFACE TYPICAL SECTION NOT TO SCALE

PROJECT NO:5640-02-81

HWY: STH 113

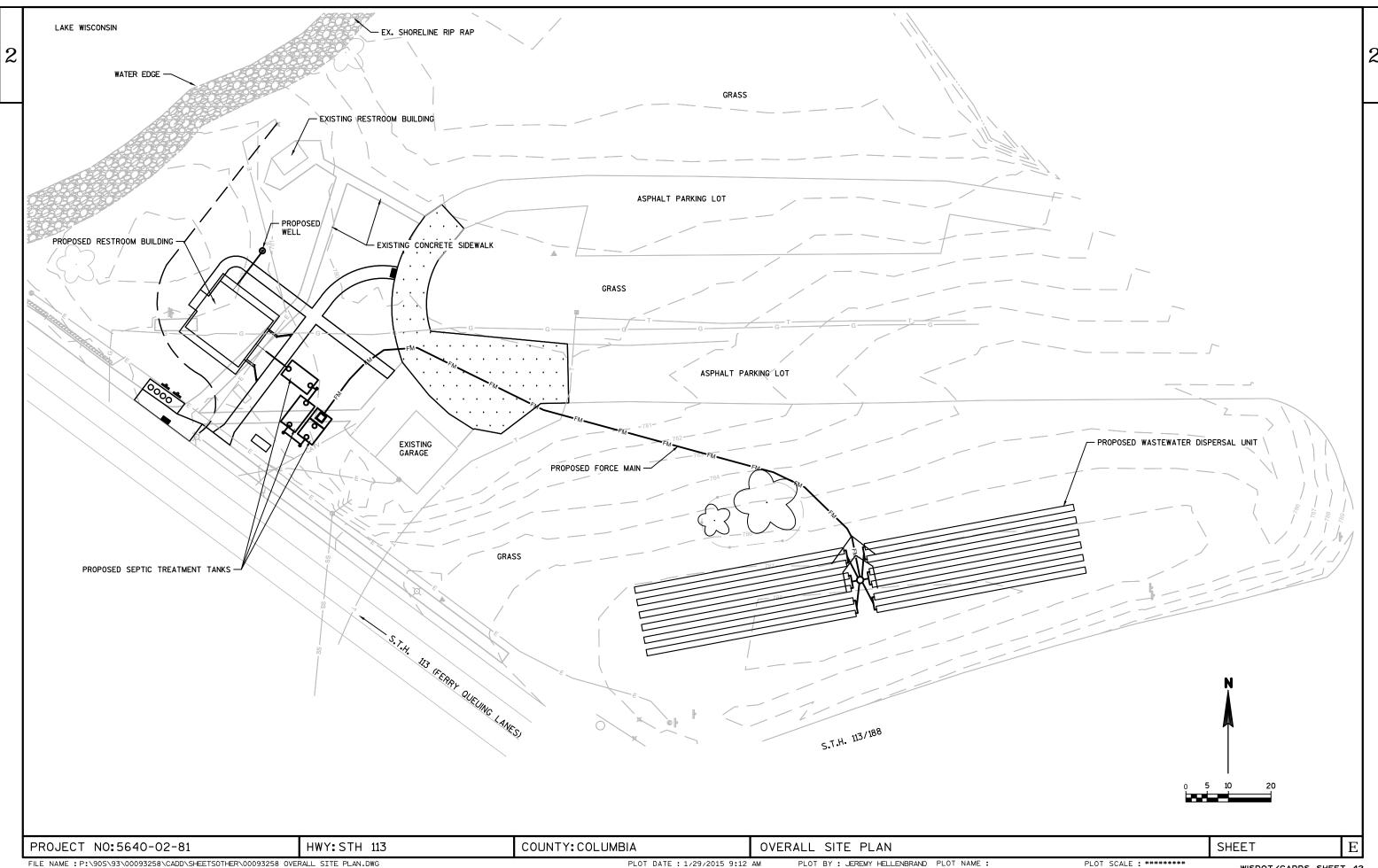
COUNTY: COLUMBIA

GENERAL NOTES. S.D.D., ABBREVIATIONS, & TYPICAL SECTIONS

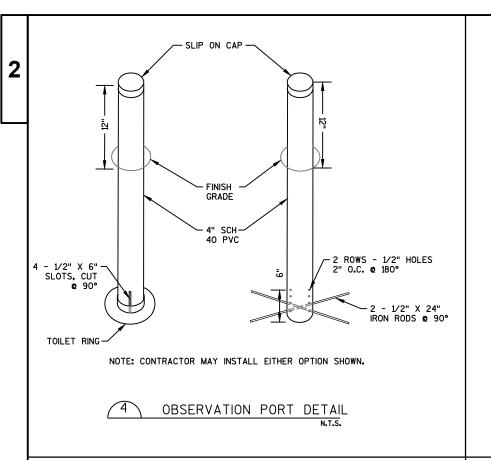
SHEET

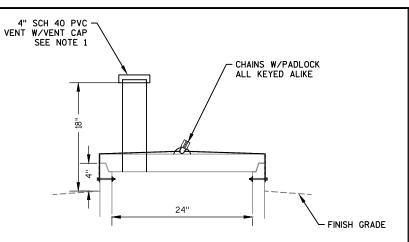
WISDOT/CADDS SHEET 42

PLOT BY : JEREMY HELLENBRAND PLOT NAME : PLOT SCALE : 1:10_XREF





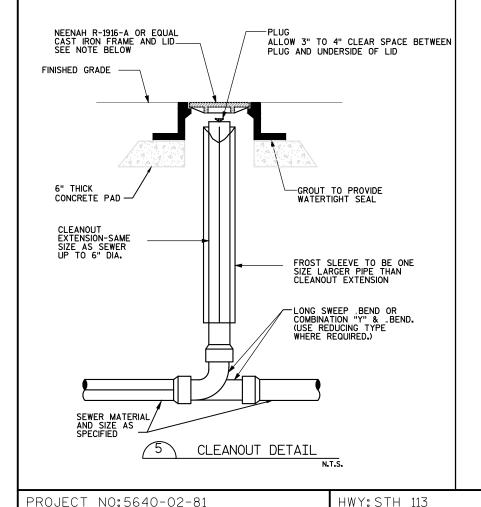


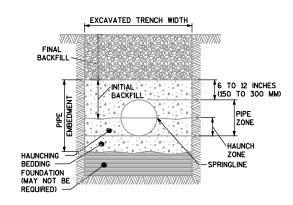


1. VENT REQUIRED ON ALL DOSE TANKS/CHAMBERS

- 2. LOCATE ALL VENTS MIN. OF 3.0' FROM JUNCTION BOX & 10' FROM DOOR OR WINDOW.
- 3. ALL RISER LIDS TERMINATED ABOVE GRADE MUST HAVE A LOCKING DEVICE.
- 4. ALL LIDS ON RISERS >8" IN DIA. MUST HAVE A WARNING LABEL ABOUT HAZARDS OF ENTERING THE TANK.







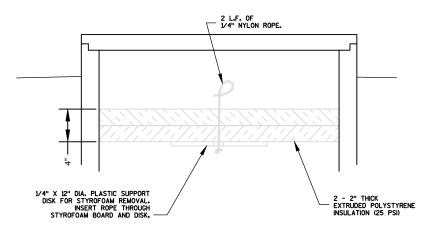
GENERAL NOTES:

- DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
- CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 -INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
- 3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
- 4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER-EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
- 5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
- 6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
- 7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
- 8. EMBEDMENT COMPACTION:
 MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.

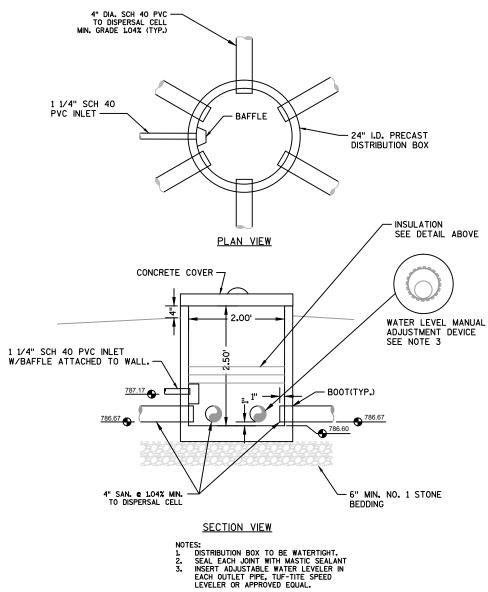
CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL SCALE: NONE

COUNTY: COLUMBIA

SEPTIC DETAILS 1



DISTRIBUTION BOX INSULATION DETAIL



DISTRIBUTION BOX DETAIL

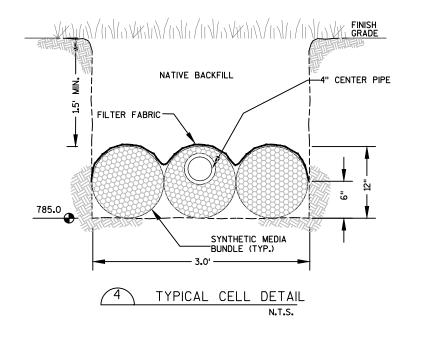
SHEET

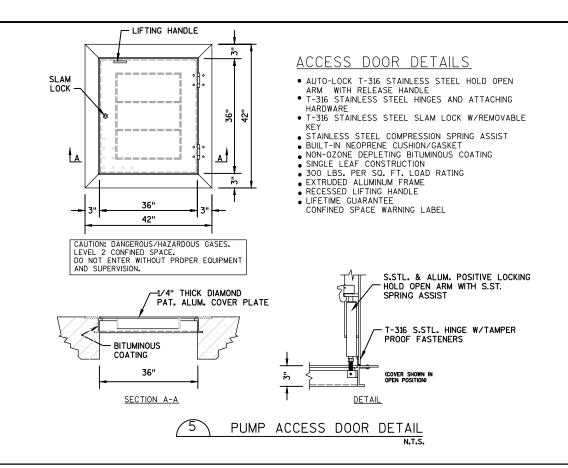
FILE NAME : P:\90S\93\00093258\CADD\SHEETSOTHER\00093258 SEPTIC DETAILS 1.DWG

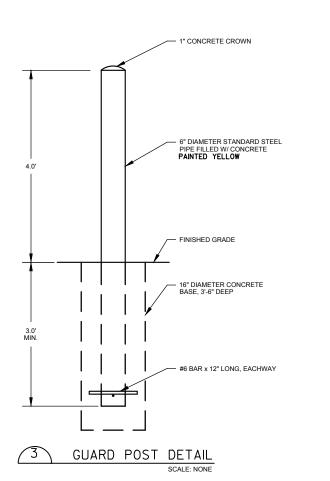
PLOT DATE: 10/23/2014 1:11 PM

PLOT BY : JEREMY HELLENBRAND PLOT NAME : _____

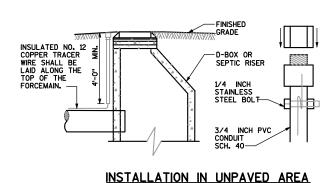








HWY: STH 113



GENERAL NOTES:

- 1. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
- A THREADED, FEMALE PVC SCHEDULE 40 PLUG AND MALE COUPLING GLUED TO 3/4 INCH SCHEDULE 40 SHALL BE INSTALLED IN OR ADJACENT TO THE VALVE VAULT AND MANHOLE.
- WIRE PIGTAIL SHALL BE WRAPPED AROUND BOLT AND READILY ACCESSIBLE, WITH SUFFICIENT LENGTH FOR EASY CONNECTION.

TRACER WIRE FOR PVC FORCEMAIN DETAIL SCALE: NONE

COUNTY: COLUMBIA

- <u>ACCESS HATCH</u> 36" X 36" WEATHERPROOF DOOR SEE DETAIL 5/SEPTIC DETAILS 2 JUNCTION BOX-FINISH GRADE CONDUIT TO PANEL-#4 REBAR 12" ON CENTER BOTH WAYS DOSE TANK PUMP ACCESS DETAIL

FILE NAME : P:\90S\93\00093258\CADD\SHEETSOTHER\00093258 SEPTIC DETAILS 2.DWG

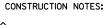
PROJECT NO:5640-02-81

PLOT DATE: 10/23/2014 1:12 PM

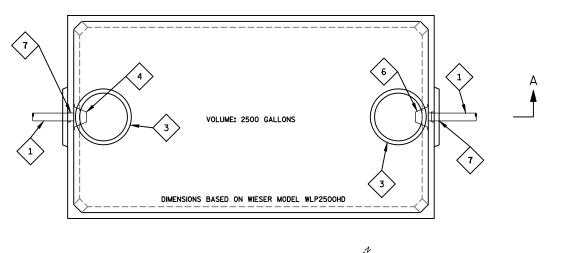
PLOT BY : JEREMY HELLENBRAND PLOT NAME : ______

SEPTIC DETAILS 2

SHEET



- 4" SCH 40 PVC @ MIN. SLOPE OF 1/8" PER FOOT.
- MIN. 4" COMPACTED, GRANULAR BEDDING, 100% 2 PASSING A 1/2" SCREEN, INSTALL AS PER TANK MANF. INSTRUCTIONS
- 3 24" DIA. ACCESS RISER. SEE DETAIL 3/SEPTIC DETAILS 1.
- POLYETHYLENE BAFFLE SECURELY ANCHORED TO SIDEWALL. W/CORROSION RESISTANT
- 5 EXPOSED RISER LIDS REQUIRE LOCKING DEVICE AND WARNING LABELS, SEE DETAIL 3/SEPTIC
- 2" × 4' × 8' INSULATION BOARD ENTIRE LENGTH OF PIPE FROM SEPTIC TANK INLET TO
- WATERTIGHT BOOT, PSX GASKET OR EQUAL.
- 8 PROVIDE 2 COURSES OF SEALANT AT JOINT



SEPTIC TANK NO.

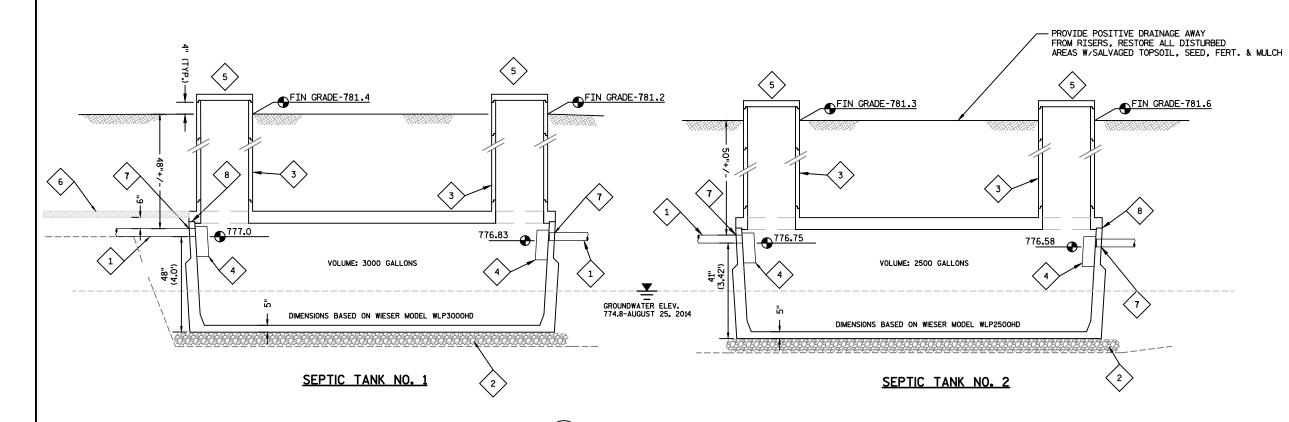
SEPTIC TANK - PLAN VIEW

VOLUME: 3000 GALLONS

DIMENSIONS BASED ON WIESER MODEL WLP3000HD

HWY: STH 113

SEPTIC TANK NO.



SEPTIC TANK SECTION

COUNTY: COLUMBIA

SEPTIC TANK NOTES:

- 1. ALL TREATMENT TANKS USED IN THE CONSTRUCTION OF THIS SYSTEM SHALL BE APPROVED PRODUCTS BY DSPS. INSTALLER ASSUMES ALL LIABILITY FOR USE OF TANKS OTHER THAN THOSE SPECIFIED. ADJUSTMENTS AND CHANGES IN DIMENSIONS ARE THE RESPONSIBILITY OF THE INSTALLER AND ALL COSTS INCURRED FOR REDESIGN AND/OR RESUBMITTAL TO DSPS SHALL BE THE RESPONSIBILITY OF THE PARTY REQUESTING THE CHANGE.
- 2. TREATMENT TANKS SHALL BE PRECAST REINFORCED CONCRETE MEETING THE REQUIREMENTS OF ASTM C-1227 AND SPS 384.
- 3. TONGUE AND GROOVE OR SHIPLAP JOINTS ARE REQUIRED ON TANK TOP AND ALL RISER
 SECTIONS. CONTRACTOR SHALL VERIFY ALL DEPTHS AND ORDER RISER SECTIONS ACCORDINGLY.
- 4. ALL PIPE AND CONDUIT PENETRATIONS SHALL BE WATERTIGHT.
- 5. ALL TANKS SHALL BE LOCATED 5' MINIMUM FROM ANY BUILDING FOUNDATION AND 25' MINIMUM FROM ANY WELL.
- 6. ALL TANK ACCESS RISERS & OPENINGS >8" IN DIAMETER, EXTENDING ABOVE FINISHED GRADE, SHALL BE FURNISHED WITH A WARNING LABEL AS SPECIFIED IN SPS 384,25(8).
- 7. ALL RISER COVERS EXTENDING ABOVE GRADE SHALL TERMINATE 4" MINIMUM ABOVE FINISH GRADE AND BE FURNISHED WITH A LOCKING
- 8. ALL SEWER LINES ENTERING AND LEAVING THE SEPTIC TANK SHALL BE SCH 40 PVC UNLESS OTHERWISE NOTED.
- 9. ALL TANKS TO BE COATED ON THE EXTERIOR SURFACE WITH A WATERPROOF MATERIAL SUCH AS WASSER MC TAR OR EQUAL PRIOR TO SHIPMENT TO THE SITE .

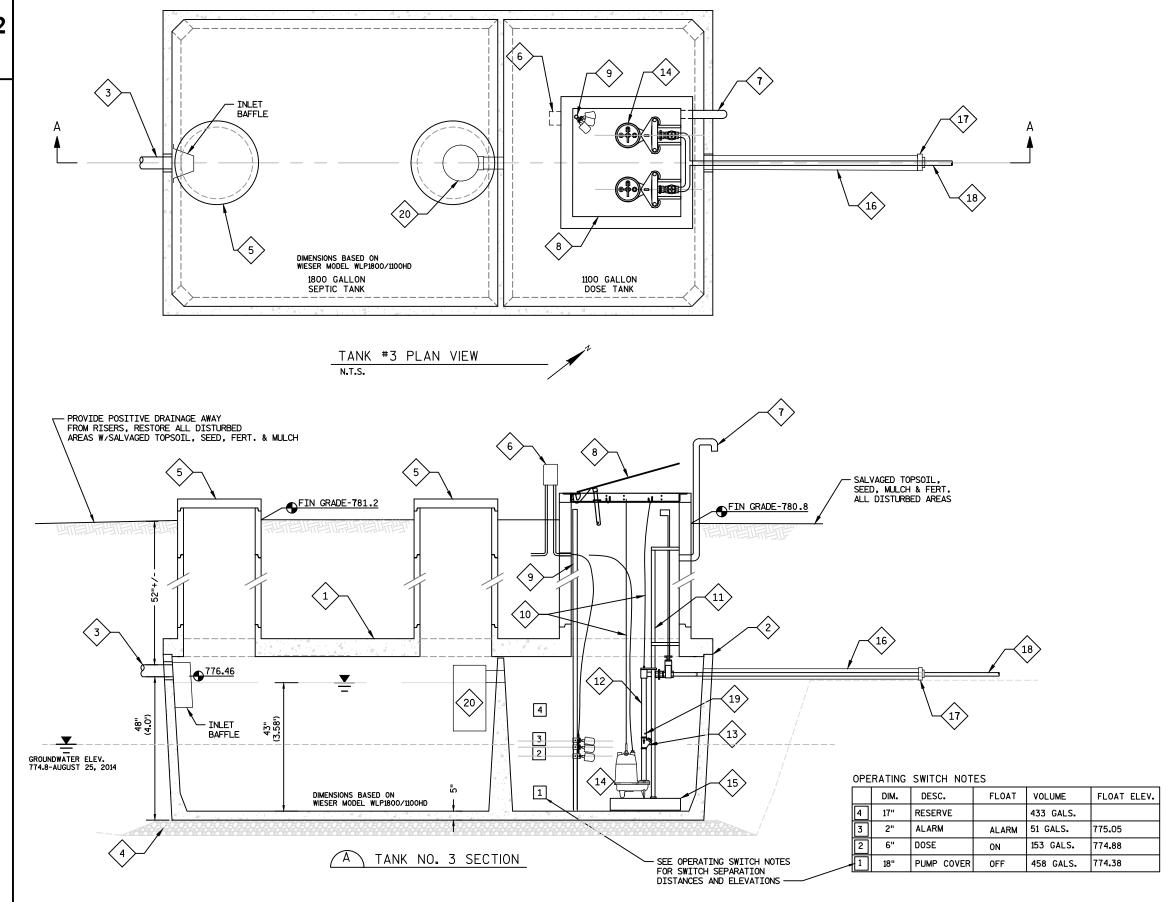
SHEET

Ε

TANK NO. 1 & 2

PROJECT NO:5640-02-01





BOX NOTES

- 1 PRECAST CONCRETE STATE APPROVED TANK
- 2 PROVIDE 2 COURSES OF SEALANT AT JOINT.
- 4" SCH 40 PVC SAN. @ MIN. 1/8"/FT. SLOPE EXTEND MIN. 3.0" ONTO UNDISTURBED SOIL OR CONNECT TO ADJACENT TANK.
- MIN. 4" COMPACTED, GRANULAR BEDDING, 100% PASSING A 1/2" SCREEN. INSTALL AS PER TANK MANUF. INSTRUCTIONS
- 5 24" ID. ACCESS RISER WITH LOCKING LID SEE DETAIL 3/SEPTIC DETAILS 1
- 6 NEMA 3R JUNCTION BOX & SPECIFICATIONS
- 4" VENT, SEE DETAIL 3/SEPTIC DETAILS 1
- 8 36" X 36" HATCHWAY, SEE DETAIL 6/SEPTIC DETAILS 2
- 9 1" DIA. SCH 40 PVC FLOAT SUPPORT PIPE, FASTEN TO WALL W/REMOVABLE S.S. BRACKET
- 10 3/16" S.S. PUMP LIFT CABLE
- PUMP REMOVAL SYSTEM W/THREADED COUPLING, GATE VALVE AND 1" STAINLESS STEEL SLIDE RAILS (1 PER PUMP REQ'D) CENTRIPRO A10-12 OR EQUAL, SEE SPECIFICATIONS
- 12 1 1/4" S.S. DISCHARGE PIPE
- 13 1 1/4" FULL FLOW CHECK VALVE (1 PER PUMP)
- EFFLUENT PUMP (2 REQ'D),
 PUMP CONDITIONS: 15 GPM @ 30' TDH
 PUMP SHALL BE GOULDS WEO511H OR EQUAL.
- 15 4" PUMP SUPPORT BLOCK
- 4" SCH 40 PVC DISCHARGE SUPPORT PIPE EXTEND 3.0" ON TO UNDISTURBED SOIL
- 17 REDUCING FERNCO WATERTIGHT SEAL
- 18 310LF 1 1/4" SCH 40 PVC DISCHARGE TO DISTRIBUTION BOX
- 19 3/16" WEEP HOLE
- 20 EFFLUENT FILTER CAPABLE OF PASSING >3500 GAL/DAY. ACCEPTABLE MANUF. & MODELS:
 ZABEL MODEL A100 12 X 28 RATED FOR 4500 GAL/DAY BIOMICROBICS MODEL SNT 818 RATED FOR 6000 GAL/DAY OR EQUAL. SEE SPECIFICATIONS FOR ADDITIONAL DETAIL

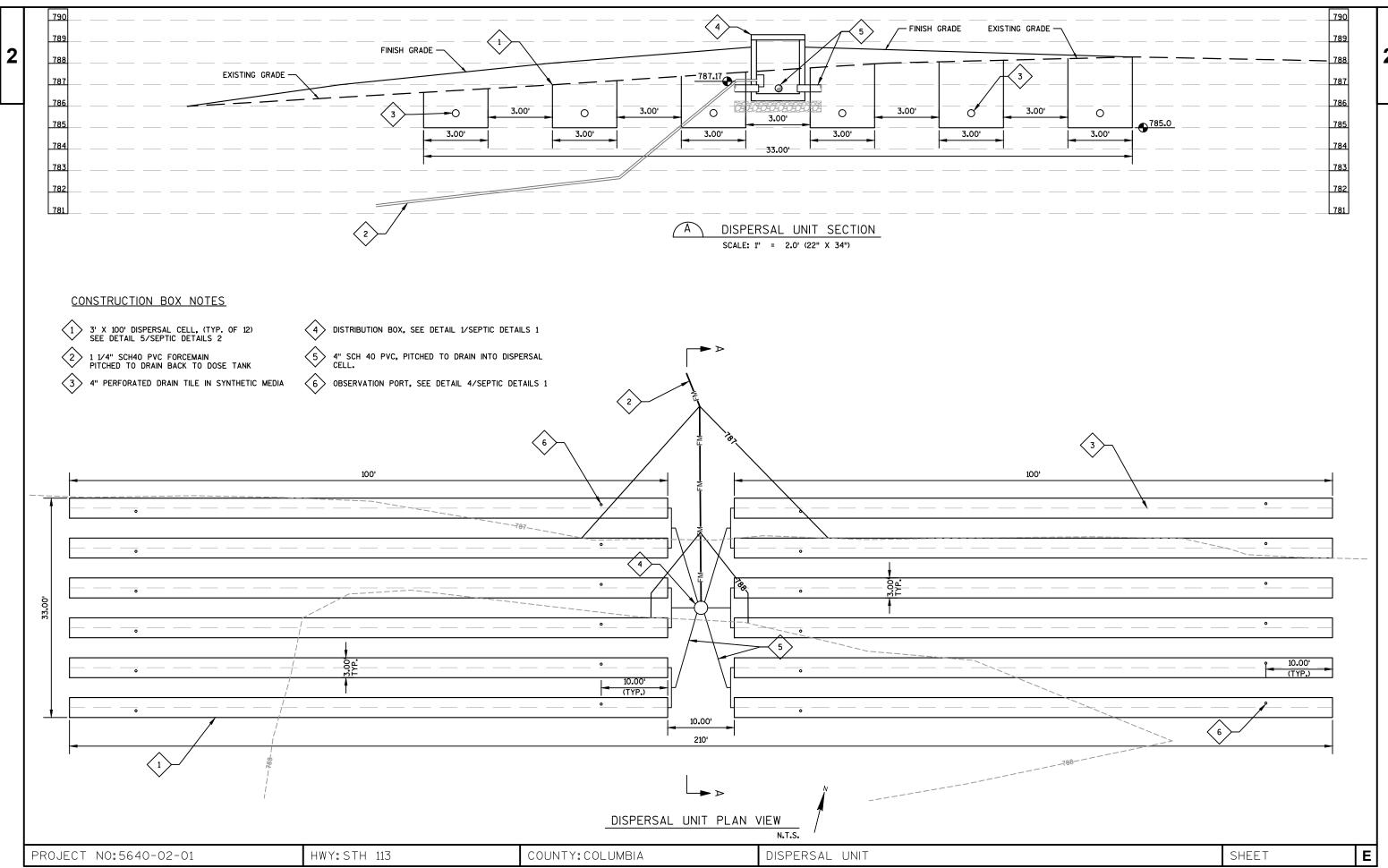
SHEET

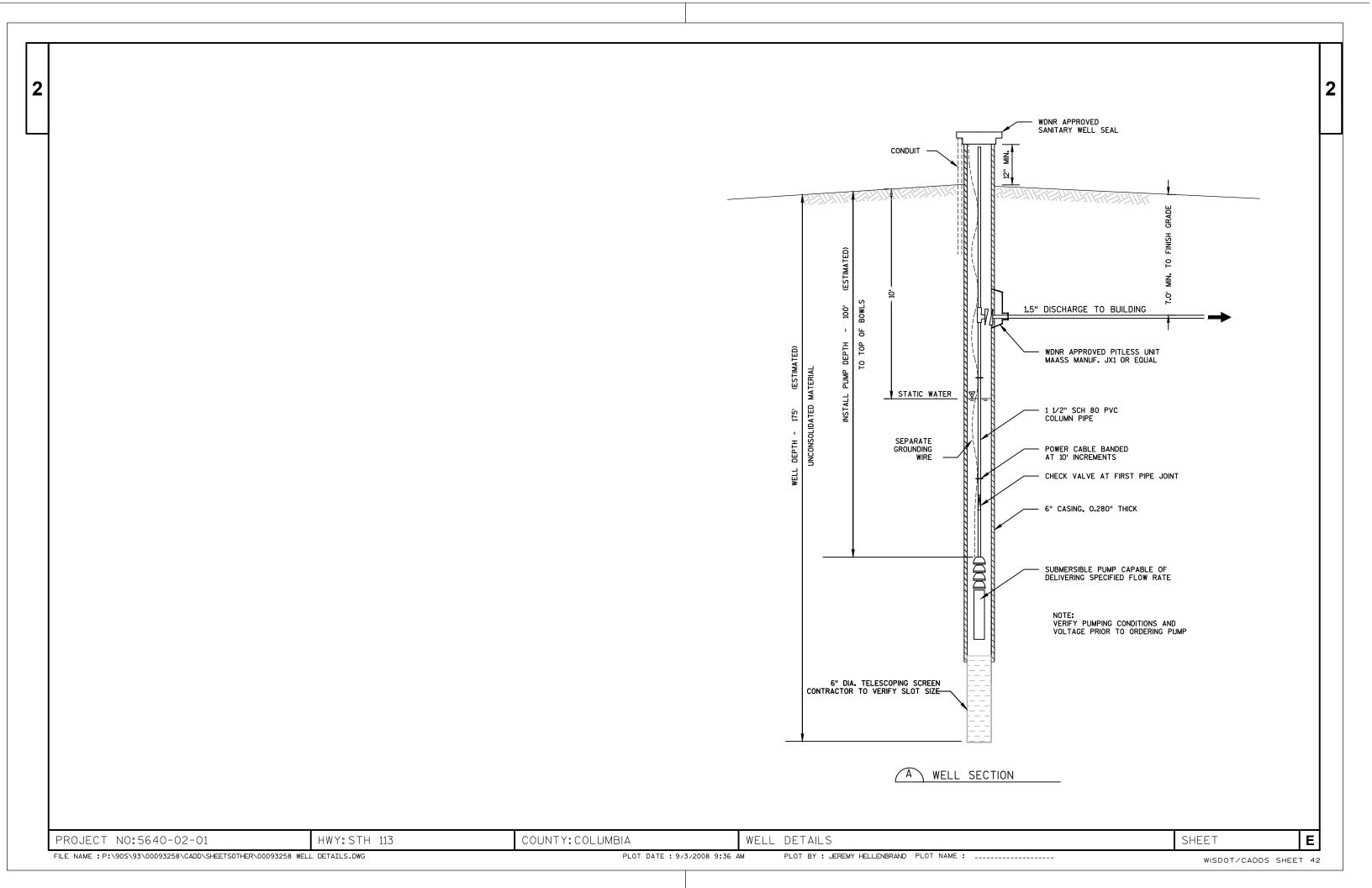
- I

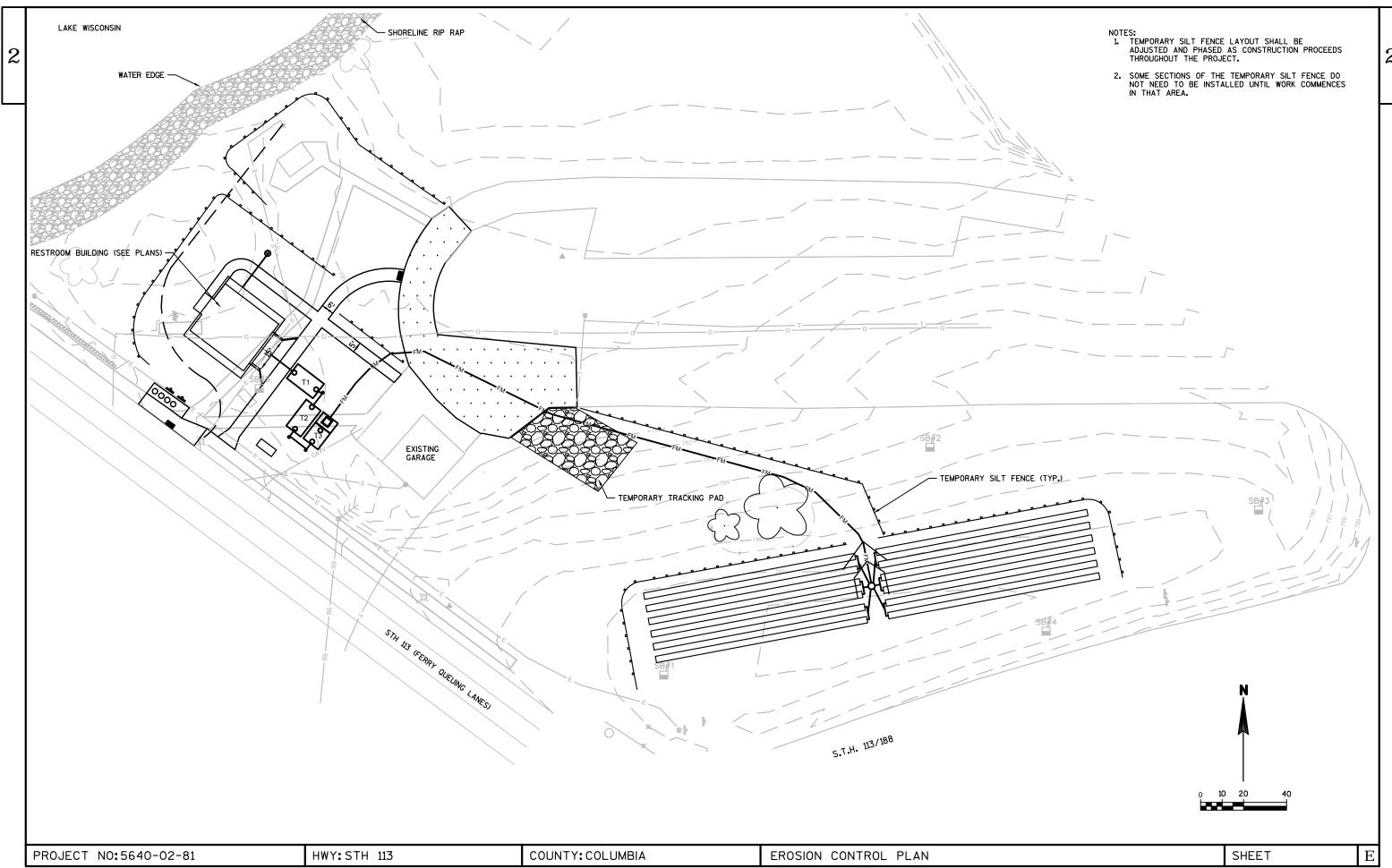
HWY: STH 113

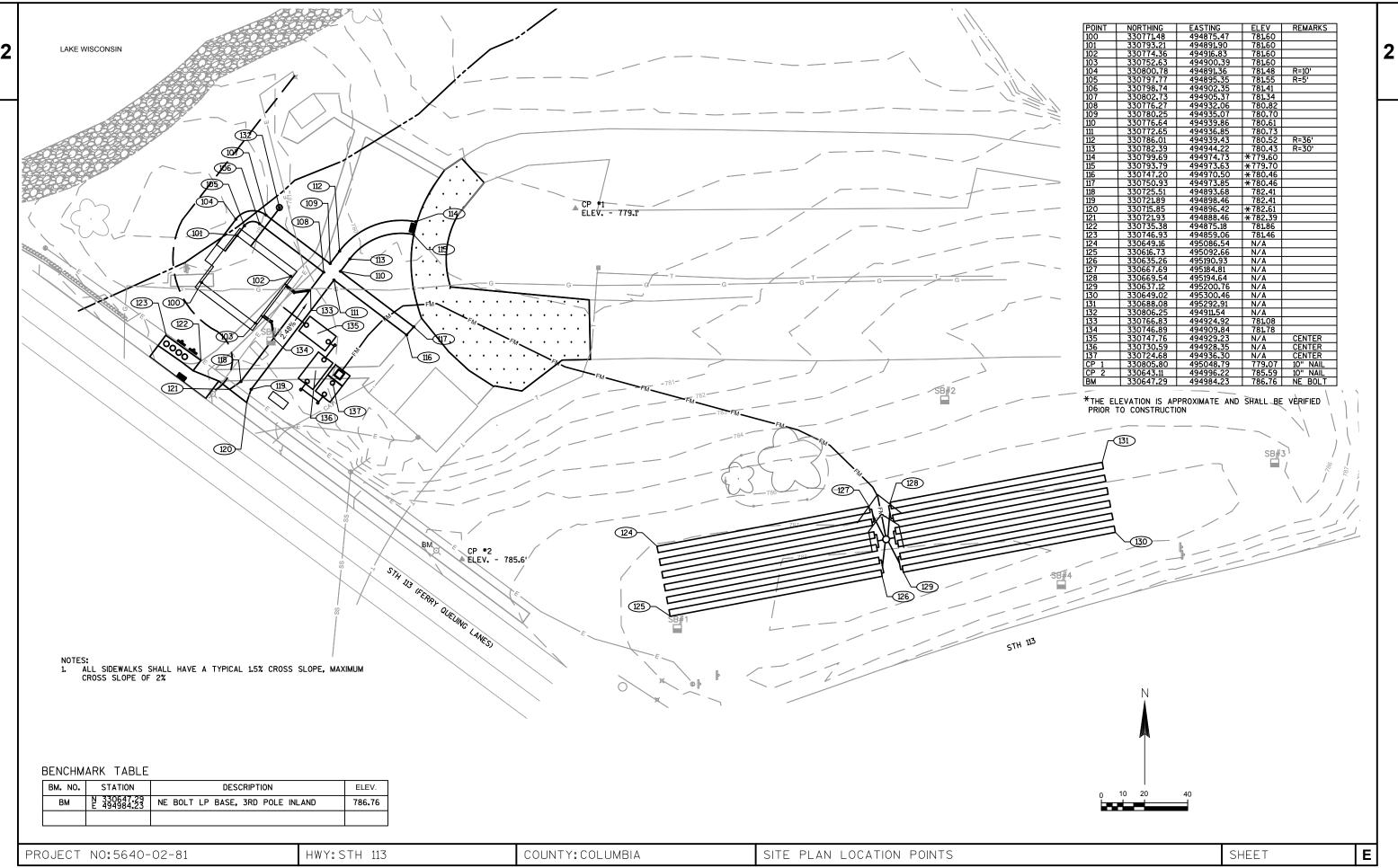
TANK NO. 3

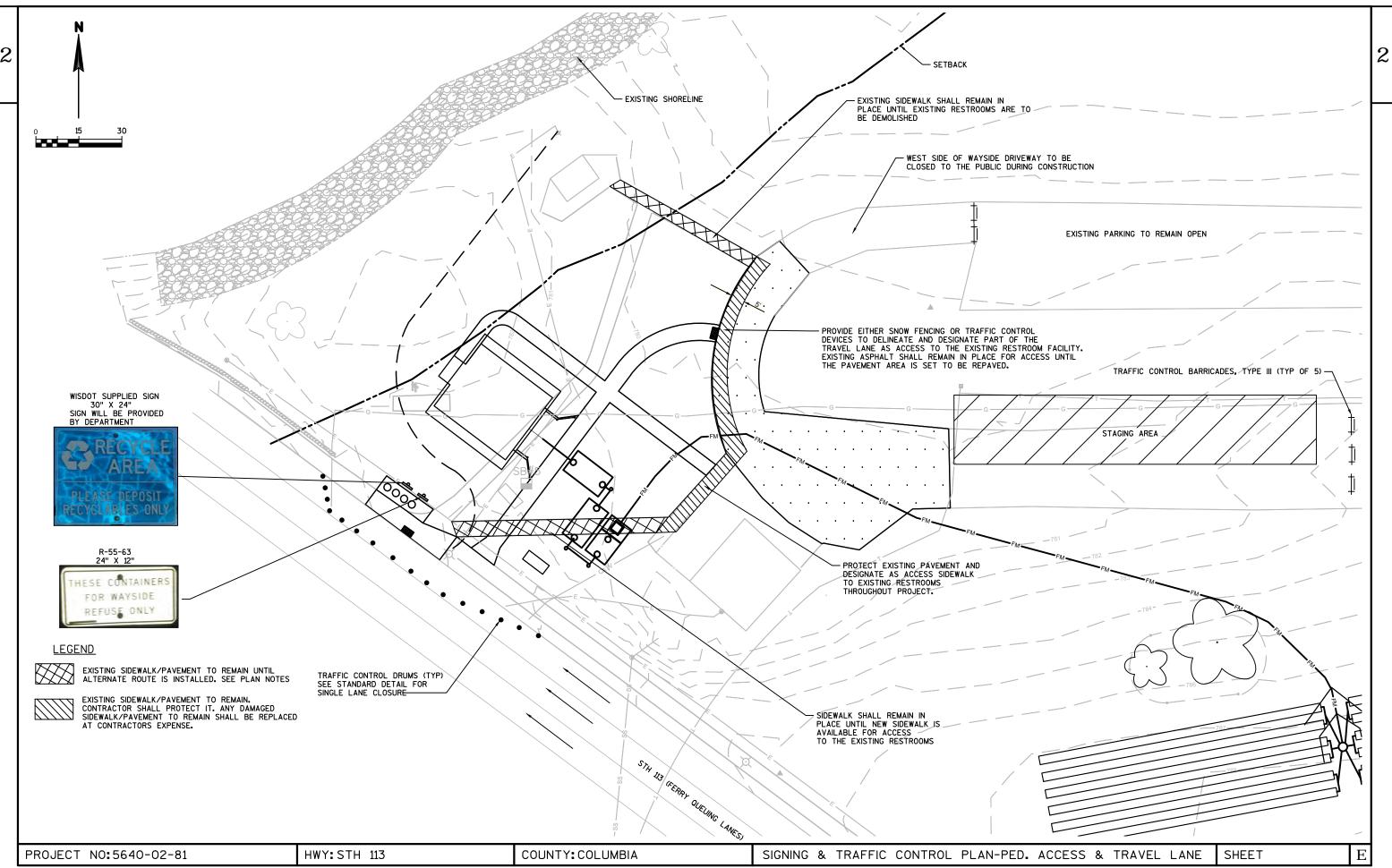
PROJECT NO:5640-02-81











| Boring Projec Locatio | t: | Nummelin Testing Services, Inc. Restroom and Septic Field Project - Merrimac Fe See Map STH 113, Town of West Point, Columbia County | | Aug Page Drill Date Elev | e: lers: | SS 1 of NH / S 8/25/1 | | | |
|-----------------------------|-----|---|---|--------------------------------------|-----------------|--------------------------------|---|-------------|-------|
| Depth (ft.) | | Classification/Description | # | Sample Depth (ft.) | N ₈₀ | Rec (in.) | М | Qp (tsf) | Notes |
| 1 2 | | Dark Brown Fine SAND, Some Silt (Topsoil) | 1 | 1 - 2.5 | 15 | 24 | М | (13.7) | 8 |
| 3 | | Reddish Brown Fine SAND Little Silt (USCS: SP-SM)3.5' | 2 | 3.5 - 5 | 4 | 18 | М | | |
| 5 | | Tan Fine SAND | | | | | | | |
| 6 | 1 | (USCS: SP) | 3 | 6 - 7.5 | 2 | 18 | S | | |
| 7 | | (Water @ 7.0') | | | | | | | |
| 8 | 2.5 | | 4 | 8.5 - 10 | 2 | 18 | S | | |
| 9 | | E.O.B. 10.0' | | | | | | | |
| 11 | : | Backfilled with Bentonite Chips | | | | | | | |
| 12 | | | | | | | | | |
| 13 | 1 | | | | | | | | 9 |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |

| Project | : | Nummelin Testing Services, Inc. Restroom and Septic Field Project - Merrimac I | | Ang Page Drill | ers: | Spoor 1 of 1 NH / S8 | | | |
|----------------|-----------|---|-------|-----------------------|-----------------|----------------------------|--------------|-------------|---------|
| Locatio | n: | See Map STH 113, Town of West Point, Columbia Coun | ty, W | | | | Date Elev | arthur. | 8/25/14 |
| Depth (ft.) | | Classification/Description | # | Sample Depth (ft.) | N ₈₀ | Rec (in.) | M | Qp (tsf) | Notes |
| 1 | : | Dark Brown Fine SAND, Some Silt (Topsoil) 8.0" Light Brown Fine SAND, Little Gravel | 1 | 0 - 2 | | 24 | М | 1 | |
| 2 | | (Probable Fill) (USCS: SP) | 2 | 2 - 4 | | 24 | М | | |
| 3 | : | | | | | | | | |
| 4 | | | 3 | 4 - 6 | | 18 | М | | |
| 6 | | Tan Fine SAND (USCS: SP) | 4 | 6 - 8 | | 18 | М | | |
| 7 | 1 1 2 2 2 | | | | | | | | |
| 8 | 1000 | | 5 | 8 - 10 | | 18 | М | | |
| 9 | | Reddish Brown Sandy CLAY | | | | | | | 5 |
| 10 | | E.O.B. 10.0' Dry @ Completion Backfilled with Bentonite Chips | | | | | | | |
| 11 | : | | | | | | | | |
| 12 | | | | | | | | | |
| 14 | - | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |

| | | NG LOG Nummelin Testing Services, Inc. | | | | | Bori Aug Page | er: | Spoon 1 of 1 |
|-------------------|-----|---|-----------------|----------------------|-----------------------|--------------------|---------------------|-------|-----------------|
| Projec Locatio | | Restroom and Septic Field Project - Merrimac Fo See Map STH 113, Town of West Point, Columbia Count | | Date | lers: :: ution: | NH / SK 8/25/14 | | | |
| Depth | | Classification/Description | N ₈₀ | Rec | М | Qp | Notes | | |
| (ft.) | - | Dark Brown Fine SAND, Some Silt | # | Depth (ft.) 0 - 2 | - 00 | (in.) | M | (tsf) | |
| | [4] | (Topsoil) | | | | | | | |
| 1 | | 10.0" | | | | | | | |
| | 8 | | | | | | | | |
| 2 | - | | 2 | 2 - 4 | | 24 | M | | |
| | - | | | | | | | | |
| 3 | | | | | | | | | |
| | 10 | | | | | | | | |
| 4 | 18 | | 3 | 4 - 6 | | 18 | М | | |
| 4 | 15 | | 3 | 4-0 | | 10 | IVI | | |
| | 14 | | | | | | | | |
| 5 | 100 | Tan Fine SAND | | | | | | | |
| | 10 | (USCS: SP) | | | | | | | |
| 6 | | (| 4 | 6 - 8 | | 18 | M | | |
| | | | | | | | | | |
| 7 | | | | | | | | | |
| | - | | | | | | | | |
| 8 | | | 5 | 8 - 10 | | 24 | M | | - |
| 0 | | | " | 0 - 10 | | 2.1 | 1,11 | | |
| | - | 0.57 | | | | | | | |
| 9 | | 9.5' Reddish Brown Sandy CLAY | | | | | | | |
| | - | (USCS: CL) | | | | | | | |
| 10 | - | E.O.B. 10.0' | | | | | | | |
| | | Backfilled with Bentonite Chips | | | | | | | |
| 11 | - | Ductimed with Deliterate emps | | | | | | | |
| | - | | | | | | | | |
| 12 | | | | | | | | | |
| | ~ | | | | | | | | |
| 13 | | | | | | | | | |
| 13 | - | | | | | 1 | | | |
| | - | | | | | | | | |
| 14 | - | | | | | | | | |
| | - | | | | | | | 1 | |
| 15 | × - | | | | | | | | |
| | ĭ | | | | | | | | |
| 16 | | | | | - | | | | |
| | - | | | | | | | | |
| | - | Testing Services, Inc. | | | | | \perp | NTS# | 772.44 |

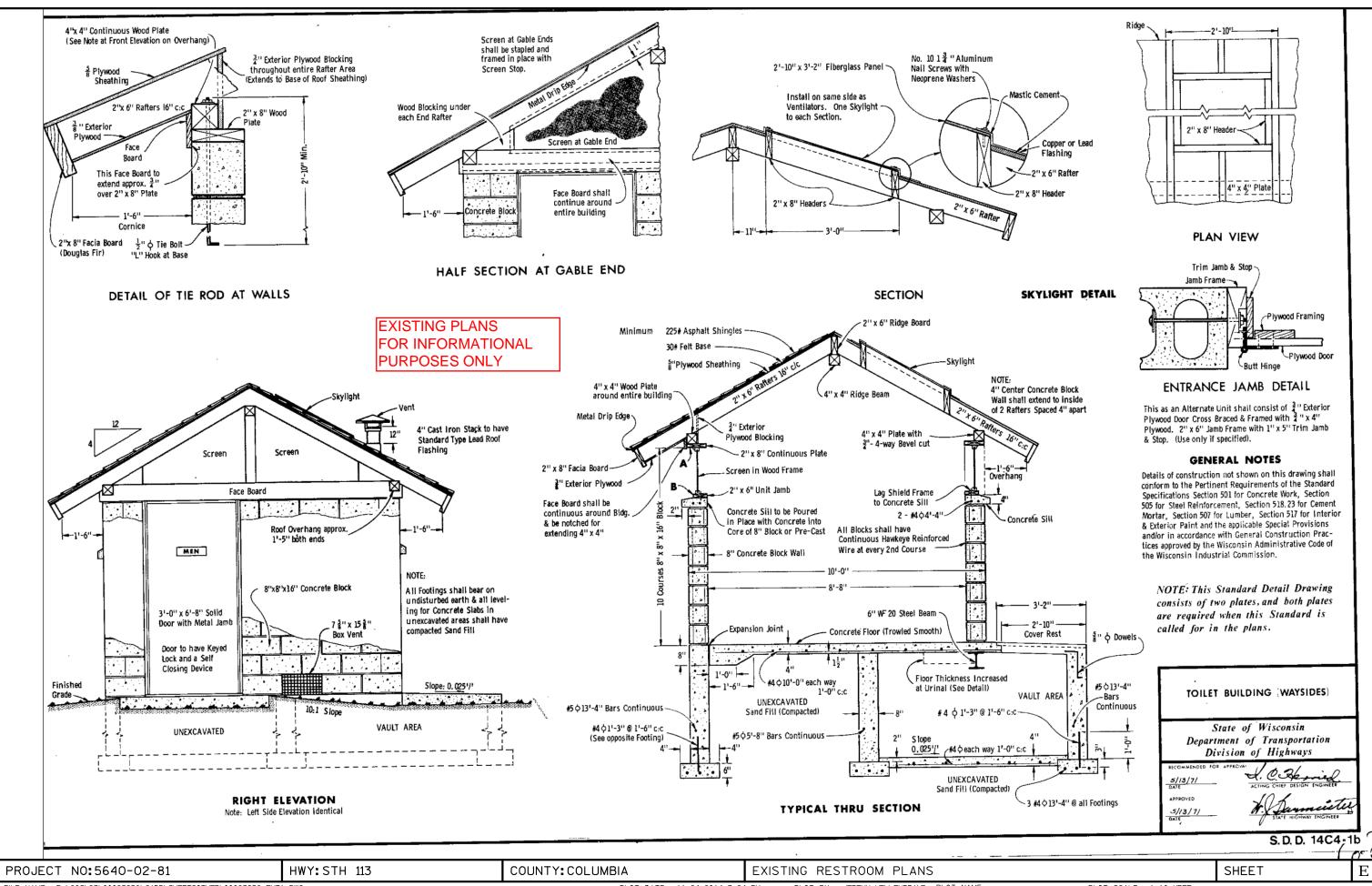
HWY:STH 113

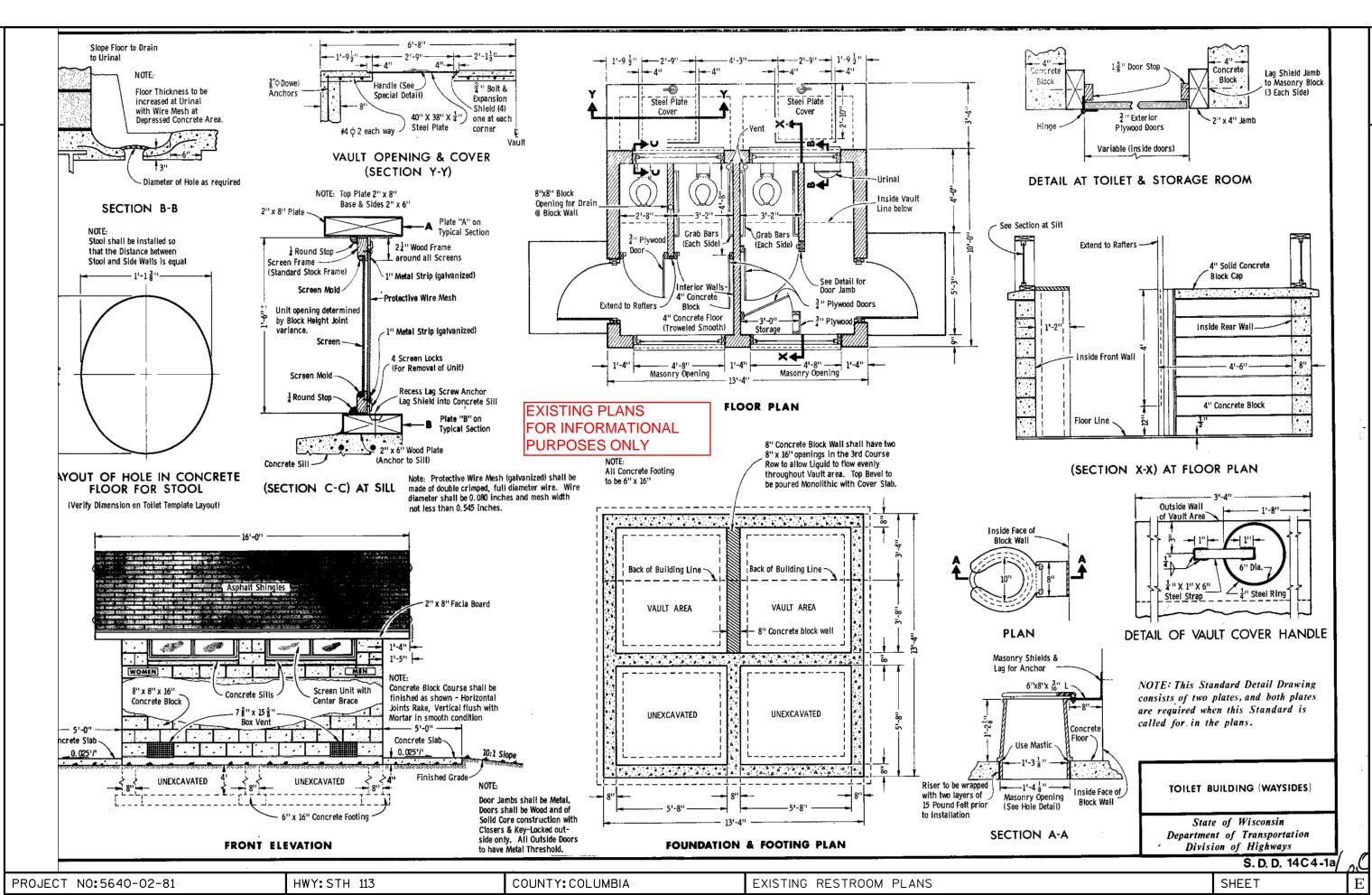
PROJECT NO:5640-02-81

COUNTY: COLUMBIA

SOIL BORINGS

SHEET





ARCHITECTURAL MATERIAL SYMBOLS:

EARTHWORK

EARTH

ROCK FILL

CONCRETE

åå · '08. CAST-IN- GROUT PLACE

MASONRY METAL

INSULATION

GLASS

BRICK CMU STEEL ALUM.

WOOD

ROUGH

RIGID

LARGE SCALE SMALL SCALE

FINISHES

GYPSUM BOARD

\$> 1√1 TERRAZZO ACOUST. PLASTIC TILE LAMINATE

LOOSE

BLOCKING PARTICLE PLYWOOD

BUILDING INFORMATION:

CLASS OF CONSTRUCTION TYPE VB FIRE SPRINKLER SYSTEM · · · · · NONE

OCCUPANCY CLASSIFICATION · · · · · · BUSINESS GROUP B OCCUPANT LOAD · · · · · · · 9 PERSONS

NUMBER OF STORIES · · · · · · ONE EXIT DISTANCE 75 FEET

PROPOSED SIZE FIRST FLOOR 856 SO. FT. VOLUME 12,680 CU. FT.

LODI-MERRIMAC SOUTH FERRY LANDING WAYSIDE RESTROOM BUILDING COLUMBIA COUNTY, WISCONSIN



ARCHITECTURAL SYMBOLS:

CARPET

CROSS SECTION CUT

INTERIOR ELEVATION

WALL SECTION

-SHEET NUMBER SECTION IS SHOWN

- SECTION NUMBER

DETAIL OR SECTION CUT

(5) (A-6)

DOOR IDENTIFICATION

 $\langle A \rangle$ WINDOW IDENTIFICATION

5 NOTE IDENTIFICATION

ROOM IDENTIFICATION

REVISION IDENTIFICATION

ELEVATION CONTROL POINT

ARCHITECTURAL ABBREVIATIONS:

JOINT
LAVATORY
MATERIAL
MECHANICAL
MANHOLE
MINIMUM
MASONRY OPENING
MOISTURE RESISTANT
METAL
NOT IN CONTRACT
NOT IN CONTRACT
NOT TO SCALE
ON CENTER
OPPOSITE HAND
PRECAST CONCRETE
POWER DRIVEN FASTENER
PLASTIC LAMINATE
PLUMBING
PRESSURE TREATED
PLYWOOD
POUNDS PER SOUARE NOCH
PROPERTY LINE ANCHOR BOLT AIR CONDITIONER ADJACENT ABOVE FINISH FLOOR ALTERNATE JAV MAT'L MECH MH MMO MR MTC NTC OCPP HD PC PC PLAM PLBG PLYWD PSF PLYWD PSF PSI AL TERNATE
ALUMINUM
APPROXIMATE(LY)
BOARD
BITUMINOUS
BUILDING BLOCK BLOCKING BEARING
BEARING
BUILT UP ROOF
CONCRETE
CONTROL JOINT /
CONSTRUCTION JOINT CEILING CONCRETE MASONRY UNIT COLUMN COLUMN
CONTRACTOR
CONTINUOUS
CARPET
CERAMIC TILE
DOUBLE
DRINKING FOUNTAIN
DIAMETER
DIMENSION
DOWN SPOUT
DRAIN TILE
ELEVATION POUNDS PER SOUARE INCH
PROPERTY LINE
OUARRY TILE
REFLECTED CEILING PLAN
ROOF DRAIN
REINFORCING OR REINFORCED
RIGHT OF WAY
ROUGH OPENING
SIMILAR SIMILAR
SPECIFICATIONS
STAINLESS STEEL
SOUARE
SOUARE FOOT
STAIN AND VARNISH
STANDARD
STEEL
TOP AND BOTTOM
TONGUE & GROOVE
TOP OF BEAM
TOP OF FOOTING
TOP OF WALL
THROUGH ELEVATION EOUAL ELECTRIC WATER COOLER EXPANSION EXTERIOR FIRE EXTINGUISHER FLOOR DRAIN FOUNDATION FINISH(ED) EXP EXP FE FD N FILR FT G V FF FT G GC P HD RT HOTG C HD RT HOTG C FLOOR TB
FIBERGLASS REINFORCED PANEL TF
FOOT OR FEET TW
FOOTING THR
GALVANIZED TYP TOP OF WALL
THROUGH
TYPICAL
UNEXCAVATED
UNLESS NOTED OTHERWISE
UNIT VENTILATOR
VINYL COMPOSITION TILE
VERTICAL
VINYL WALL COVERING
WOOD
WATER HEATER
WITH THRU
TYP
UNEX
UNO
UV
VCT
VERT
VWC
WH
W/O
WY
WWM GENERAL CONTRACTOR GYPSUM HOSE BIBB HEADER HEADER
HEIGHT
HOLLOW METAL
HORIZONTAL
HEATING
HEATING/VENTILATING/
AIR CONDITIONING
INSULATION
INVERT WITH OUT WEIGHT WIRE WELDED MESH INSUL INV

INDEX OF DRAWINGS

ARCHITECTURAL / STRUCTURAL

A-1 BUILDING DRAWING INDEX

FOUNDATION PLAN AND DETAILS A-3 FLOOR PLAN AND SCHEDULES

EXTERIOR ELEVATIONS

A-5 BUILDING CROSS-SECTIONS AND WALL SECTIONS

A-6 DETAILS **A-7** DETAILS

PLUMBING

PL-1

PLUMBING SITE PLAN

PL-2 PLUMBING PLAN AND SCHEDULES

HEATING AND VENTILATING

HV-1 HVAC FLOOR PLAN AND SCHEDULES

ELECTRICAL

ELECTRICAL FLOOR PLAN AND SYMBOLS LIST

E-2 **ELECTRICAL SCHEDULES**

PROJECT NO:5640-02-81

HWY: STH 113

COUNTY: COLUMBIA

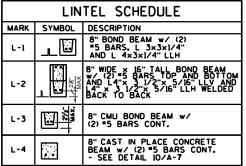
A-1 BUILDING DRAWING INDEX PLOT BY : JEREMY HELLENBRAND PLOT NAME : ______ SHEET

Ε

FILE NAME : P:\90S\93\00093258\CADD\00093258 TB.DWG

930104A01.DGN

WISDOT/CADDS SHEET 42



NOTES

- PROVIDE 8" MIN. BEARING (BACK-UP WALL), UNO. GROUT SOLID LINTEL BEARING AREA.

 CENTER LINTELS WHERE SHOWN IN BEARING WALL.
 MISC. OPENINGS: IN EXTERIOR CAVITY WALL: LESS THAN 24" WIDE L-1; IN SINGLE WYTHE WALL: LESS THAN 40" WIDE L-3.

 ALL STEEL LINTELS FOR EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. THE EXPOSED LINTEL SHALL BE PAINTED AFTER INSTALLATION.

| DESIGN LOADINGS | |
|--|----------|
| BUILDING CATEGORY | II |
| ROOF SNOW LOAD | |
| GROUND SNOW LOAD, Pg FLAT-ROOF SNOW LOAD, Pg SLOPED ROOF SNOW LOAD, PS SNOW EXPOSURE FACTOR, Ce SNOW IMPORTANCE FACTOR, I | - 30 psf |
| FLAT-ROOF SNOW LOAD, Pg | - 24 psf |
| SLOPED ROOF SNOW LOAD, Ps | - 24 psf |
| SNOW EXPOSURE FACTOR, Ce | - 1.0 |
| SNOW IMPORTANCE FACTOR, I | - 1.0 |
| THERMAL FACTOR, C+ | - 1.1 |
| LINBAL ANCED LEEWORD LOAD | - 16 Osf |
| UNBALANCED LEEWORD LOAD ———————————————————————————————————— | - 0 psf |
| | |
| WIND LOAD | |
| BASIC WIND SPEED | - 90 mph |
| WIND IMPORTANCE FACTOR, I | - 1.0 |
| WIND EXPOSURE HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENT | – c |
| HEIGHT AND EXPOSURE ADJUSTMENT | 131 |
| | |
| EARTHQUAKE DESIGN DATA | |
| SEISMIC FACTOR, Ie — — — — — — — — — — — — — — — — — — | - 1.0 |
| SEISMIC DESIGN CATAGORY | – A |
| SEISMIC USE GROUP - | – ı |
| SPECTRAL RESPONSE COEFFICIENTS Sds | 0.1007 |
| Sds ———————————————————————————————————— | - 0.1027 |
| Sd1 — SITE CLASS — | - 0.065 |
| ANALYSIS PROCEDURE - SECTION 1604.4 | |
| ROOF LOADS | |
| PONDING REQUIRED LOAD | - NONE |
| PONDING REQUIRED LOAD ———————————————————————————————————— | - NONE |
| DEAD LOAD — LIVE LOAD — | - 15 psf |
| LIVE LOAD | - 18 psf |

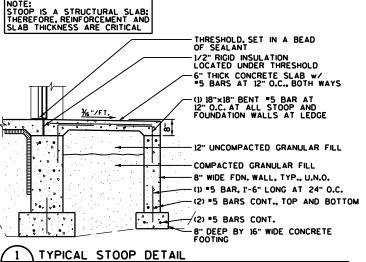


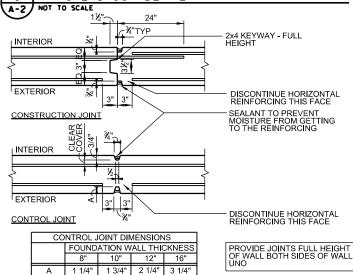
REINFORCING fy = 60 ksi fy = 36 ksi STRUCTURAL BOL TS

ANCHOR ----A325N WEDGE TYPE - E7OXX WELDING ELECTRODES -SOIL BEARING PRESSURE CAPACITY

PRESUMED

2x4's- SPF STANDARD GRADE, Fb = 550 psi 2x6's- SPF NO. 2 OR BETTER, Fb = 875 psi 2x8's- HE NO. 2 AND BETTER, Eb = 850 psi 2x10's- HF NO. 2 AND BETTER. Fb = 850 psi 2x12's- DF NO.2 AND BETTER, Fb = 850 psi P.T.- SYP NO. 2 AND BETTER, Fb = 1050 psi APA RATED SHEATHING





3 TYP. FOUNDATION WALL JOINT (C.J.) DETAIL A-2 NOT TO SCALE

ROOF TRUSS DESIGN LOADS

- 1. ALL TRUSSES SHALL BE DESIGNED FOR 15 PSF DEAD LOAD (7 PSF TOP CHORD, 8 PSF BOTTOM CHORD). LIVE LOAD IS ON HORIZONTAL PROJECTION.

 2. ALL TRUSSES SHALL BE DESIGNED FOR UPLIFT PER IBC.

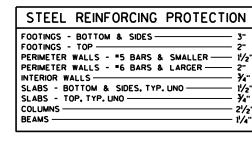
 3. LIMIT LIVE LOAD DEFLECTION TO L/360, UNLESS NOTED OTHERWISE.

REINFORCING NOTES

- REINFORCING NOTES

 1. REINFORCING SHALL BE DETAILED IN ACCORDANCE
 WITH ACISP-66

 2. ALL LAPS SHALL BE CLASS 'B' PER ACI 318-02,
 UNLESS NOTED OTHERWISE ON THE DESIGN DRAWINGS
 OR UNLESS THE DETAILER TAKES SPECIAL CARE TO
 PROVIDE STAGGERED LAPS, USE TOP BAR LAP
 LENGTHS FOR ALL HORIZONTAL WALL BARS AND
 FOR TOP BARS IN SLABS,
 3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON
 PLACING DRAWINGS WHERE MORE THAN ONE BAR
 MAKES UP A CONTINUOUS STRING,
 4. BAR PLACEMENT TOLERANCES SHALL BE AS
 SPECIFIED IN THE CONCRETE REINFORCING STEEL
 INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE,
 CURRENT EDITION.



BOX NOTES

1 4" THICK CONCRETE SLAB w/ 6x6-W2.9xW2.9 WWM OVER VAPOR BARRIER & MIN. 6" COMPACTED GRAVEL BASE

SEE PLAN

D/4 (11/2" MIN.)

FORMED KEYWAY - PREVENT BOND

COMPACTED GRANULAR FILL

-1:4 SLOPE TOP & BOTTOM

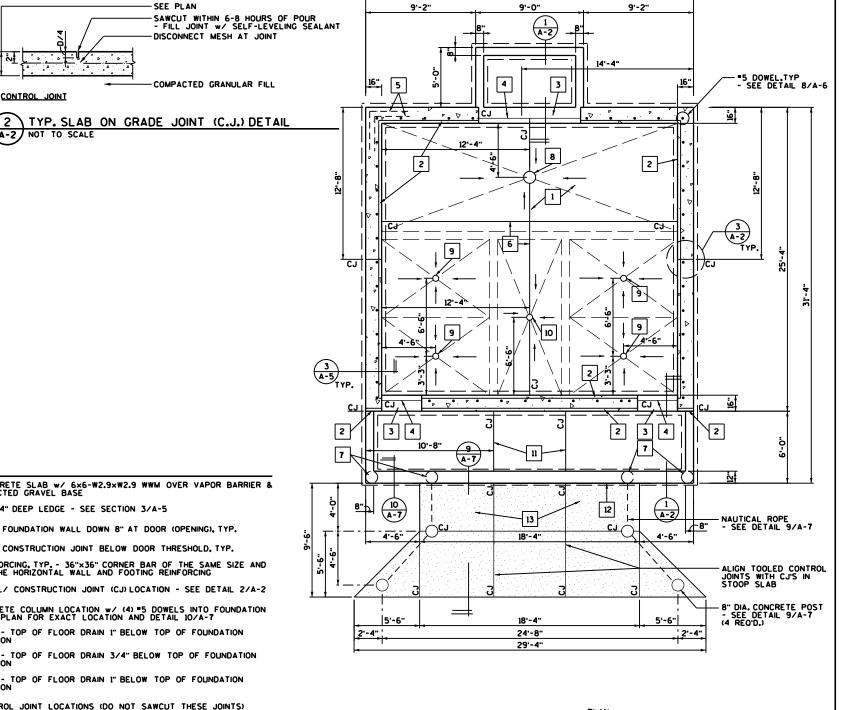
2 11/2" WIDE × 4" DEEP LEDGE - SEE SECTION 3/A-5

CONSTRUCTION JOINT

CONTROL JOINT

A-2 NOT TO SCALE

- 3 HOLD TOP OF FOUNDATION WALL DOWN 8" AT DOOR (OPENING), TYP.
- 4 LOCATE SLAB CONSTRUCTION JOINT BELOW DOOR THRESHOLD, TYP.
- 5 CORNER REINFORCING, TYP. 36"×36" CORNER BAR OF THE SAME SIZE AND NUMBER AS THE HORIZONTAL WALL AND FOOTING REINFORCING
- 6 SLAB CONTROL/ CONSTRUCTION JOINT (CJ) LOCATION SEE DETAIL 2/A-2
- 7 12" DIA, CONCRETE COLUMN LOCATION w/ (4) =5 DOWELS INTO FOUNDATION SEE FLOOR PLAN FOR EXACT LOCATION AND DETAIL 10/A-7
- 8 FLOOR DRAIN TOP OF FLOOR DRAIN 1" BELOW TOP OF FOUNDATION WALL ELEVATION
- 9 FLOOR DRAIN TOP OF FLOOR DRAIN 3/4" BELOW TOP OF FOUNDATION WALL ELEVATION TO FLOOR DRAIN - TOP OF FLOOR DRAIN 1" BELOW TOP OF FOUNDATION WALL ELEVATION
- 11 TOOLED CONTROL JOINT LOCATIONS (DO NOT SAWCUT THESE JOINTS)
- 12 1/2" EXPANSION JOINT MATERIAL
- 13 CONCRETE SIDEWALK, 4 INCH, w/ TOOLED JOINTS AS SHOWN



PROJECT NO:5640-02-81

HWY: STH 113

COUNTY: COLUMBIA

A-2 FOUNDATION PLAN AND DETAILS PLOT BY : JEREMY HELLENBRAND PLOT NAME : _____

1/a" = 1'-0" (11×17)

FOUNDATION/ FOOTING PLAN

SHEET

Ε

- q = 2000 ps

| | ROOM FINISH SCHEDULE | | | | | | | | | |
|-------------|----------------------|-----|--------------------------|-------|------|-------|------|-------------|--------|-----|
| ROOM NO. | | OOR | SE | | WA | | CEIL | ROOM NO. | | |
| œź | ROOM NAME | ŀL | BA: | NORTH | EAST | SOUTH | WEST | MATL | HEIGHT | άŽ |
| 101 | STORAGE | F2 | Bl | W1 | W1 | Wl | W1 | C2 | VARIES | 101 |
| 102 | WOMEN | Fl | B2 | W1 | W] | W1 | W1 | Cl | VARIES | 102 |
| 103 | MECHANICAL | F2 | Bı | W1 | W1 | W1 | W1 | C2 | VARIES | 103 |
| 104 | MEN | F1 | B2 W1 W1 W1 W1 C1 VARIES | | | | | | | 104 |
| | | | | | | | | | | |

DOOM FINISH CONFOUNT

BASE:

FLOUR:
F1. CONCRETE (WET CURED) - EPOXY FINISH
F2. CONCRETE - SEALED

B1. NONE B2. 6" HIGH EPOXY FLOOR FINISH

WALLS: W1. CMU - EPOXY PAINT

CEILING: C1. T&G WOOD - STAIN & VARNISH C2. %" PLYWOOD - PAINT

GENERAL NOTES:

LO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN OUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

2. ALL DIMENSIONING IS TO FACE OF CMU OR CONCRETE.

3. OPENINGS FOR VENTILATING AND PLUMBING WORK IN WALLS, FLOORS, ROOF, CELLING, ETC., SHALL BE PROVIDED BY G.C., LOCATION AND SIZE OF THESE OPENINGS SHALL BE THE RESPONSIBLITY OF THE HVAC AND PLUMBING CONTRACTOR.

4. EXTERIOR WALL AND RELATED EXTERIOR OPENINGS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE G.C. ALL ROOFING PENETRATIONS SHALL BE FLASHED BY THE ROOFING CONTRACTOR.

5. PERFORM ALL MASONRY WORK REQUIRED IN CONJUNCTION WITH INSTALLATION OF WORK BY ALL TRADES.

| | DOOR AND FRAME SCHEDULE | | | | | | | | | | | | | |
|----------------|-------------------------|-------|---------------|--------|-------|-----|-------|------------|------------------|-------------------|-----|------|---------|----------------|
| ٩Ċ | | | DOO | ₹ | | | | FRAM | E | | | ARE | | وِ |
| OPENING NO. | PE | MAT'L | NOM | INAL S | IZE | YPE | T.L | SE | CTION | NS. | 교표 | ZDW. | | OPENING NO. |
| PS | TYPE | ¥ | WIDTH | HEIGHT | THICK | ΤYΙ | MAT'L | HEAD | JAMB | SILL | FIR | HA! | REMARKS | PS |
| 1 | A | нм | PAIR 4'-0" | 7'-0" | 1¾" | F-2 | нм | ا 4-7 | 3 ₄₋₇ | l _{/A-2} | | 2 | 1. | 1 |
| 2 | A | нм | 3'-0" | 7'-0" | 1¾" | F-1 | нм | ا الم-7 | 3 /A-7 | ا الم-2 | | 1 | 1. 2. | 2 |
| 3 | A | нм | 3'-0" | 7'-0" | 1¾" | F-1 | нм | %-6 | %-6 | | | 3 | | 3 |
| 4 | A | нм | 3'-0" | 7'-0" | 1¾" | F-1 | нм | ا الم-7 | 3 /A-7 | ا الم-2 | | 1 | 1. 3. | 4 |
| | | | | | | | | | | | | | | |
| DEA | 4 A C | DV C | | | • | | | | | | | | | |

REMARKS:

1. INSULATED DOOR

2. PAINTED "WOMEN" IN 3" HIGH LETTERS ON EXTERIOR OF DOOR.

3. PAINTED "MEN" IN 3" HIGH LETTERS ON EXTERIOR OF DOOR.

BOX NOTES

1 FIRE EXTINGUISHER W/ BRACKET LOCATION

2 LAUNDRY TUB - SEE PLUMBING

3 MOP BASIN - SEE PLUMBING

4 DOWNSPOUT w/ SPLASHBLOCK LOCAION

T.R. SIGNAGE - MOUNT 60" A.F.F. TO CENTERLINE OF SIGN AND PROVIDE 8" × 8" DECORATIVE CMU TYPE 'B' - COLOR I BEHIND SIGN - SEE DETAIL 5/A-6

6 WATER HEATER ON SHELF - SEE PLUMBING

7 DRINKING FOUNTAIN W/ SPOUT HEIGHT AT 36" ABOVE FLOOR

8 DRINKING FOUNTAIN W/ SPOUT HEIGHT AT 42" ABOVE FLOOR

9 HAND DRYER LOCATION - SEE ELECTRICAL

10 SOAP DISPENSER LOCATION

11 12" DIAMETER STRUCTURAL CONCRETE COLUMN - SEE DETAIL 10/A-7

12" DIAMETER DECORATIVE CONCRETE COLUMN \times 6-10" HIGH w/ LIGHT FIXTURE MOUNTED ON TOP. COLUMN FORMED w/ A SMOOTH INTERIOR SONOTUBE - SEE DETAIL 9/A-7. - SEE DETAIL 10/A-7 FOR REINFORCING

13 PRIVACY SCREEN - SEE DETAIL 5/A-7

14 FULL HEIGHT (1) =5 BAR CENTERED IN 8" CMU AT 24" O.C. (GABLE WALL)

GROUT FIRST CORE SOLID EACH SIDE OF DOOR OPENING AND REINFORCE WITH (1) =5 BAR UP TO LINTEL BEARING, TYP

16 BABY CHANGING STATION LOCATION

17 INTERIOR ELEVATIONS - SEE DETAIL 1/A-3

18 ATTIC ACCESS HATCH - SEE DETAIL 7/A-7



PLOT DATE: 01/29/2015

CMU WALL - EPOXY PAINT FLUSH PUSH BUTTON (PLUMBING) SANITARY NAPKIN DISPOSAL (WOMEN'S ONLY) TOILET PARTITION GRAB BAR SOAP DISPENSER. MOUNT ABOVE SINK ELECTRIC HAND DRYER TOILET PAPER HOLDER 17" 17" 45" 60"

NORTH WALL ACCESSIBLE STALL LOOKING EAST 1 WOMEN T.R. 102 INTERIOR ELEVATIONS (MEN T.R. 104 OPPOSITE HAND - SIMILAR)

HWY: STH 113

A-3 FLOOR PLAN AND SCHEDULES

SHEET

WINDOW TYPE

1/4" SHIM SPACE

(2) (A-7)

м.О.

A-7

 $\langle A \rangle$ ALUMINUM INWARD PROJECTING TYPE (GLAZING TYPE 'A')

4

18

A-6 TYP.

Ε

COUNTY: COLUMBIA

DOOR TYPE

SEE SCHED.

FLUSH (PAINTED)

FRAME TYPES

2"×5¾"
DOUBLE RABBET
FRAME (PAINTED)

2'-0", 2'-8"

L-1

10

12

WOMEN 102

(2)

10

(A-7)

10'-4

5'-0"

FLOOR PLAN

1/8" = 1'-0" (11×17)

4'-10"

TYP. 1

∢

∢

∢

4

MULL

F-2

2"×5¾"
DOUBLE RABBET
FRAME (PAINTED)

27'-4"

8'-4"

L-2 DOOR L-1 LOUVER

14 15 STORAGE

101 FD()

1

3)

103

FDÖ

5'-4"

м.О.

2'-8",2'-0", 4'-10"

(A)

L-1

8'-8"

4

3'-4"

5 A-7

PLAN NORTH

13

12

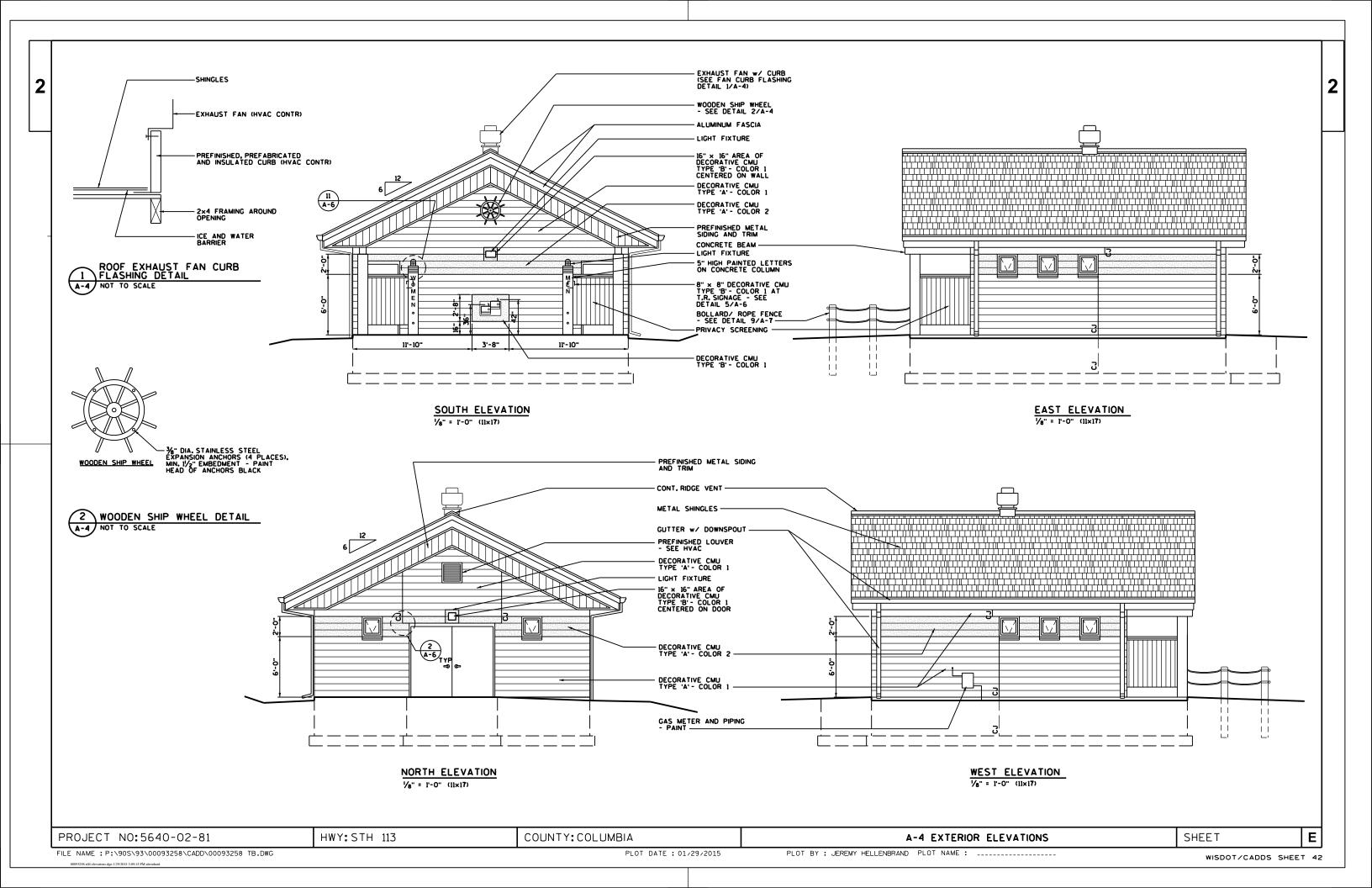
r-4" 13

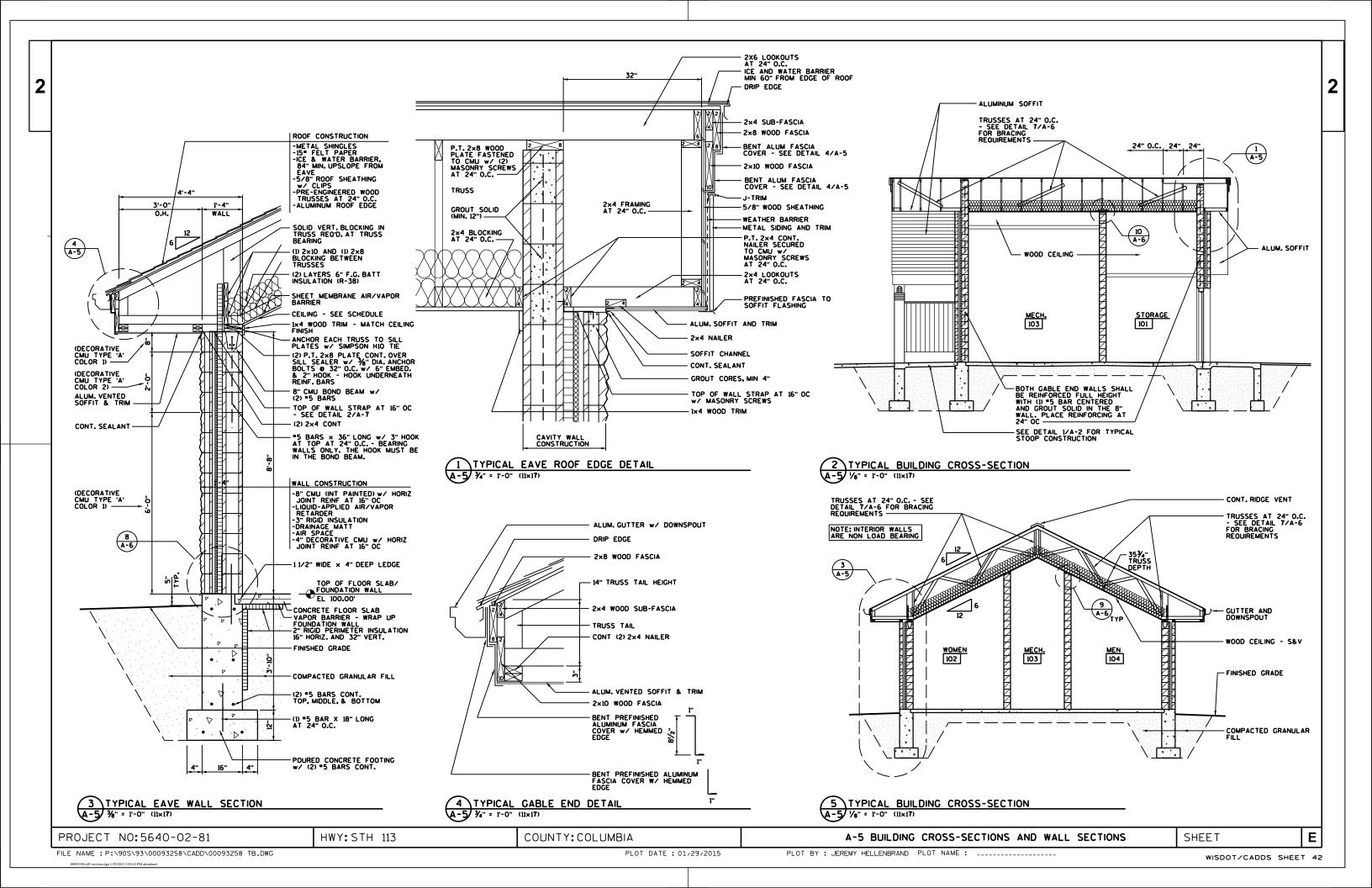
11

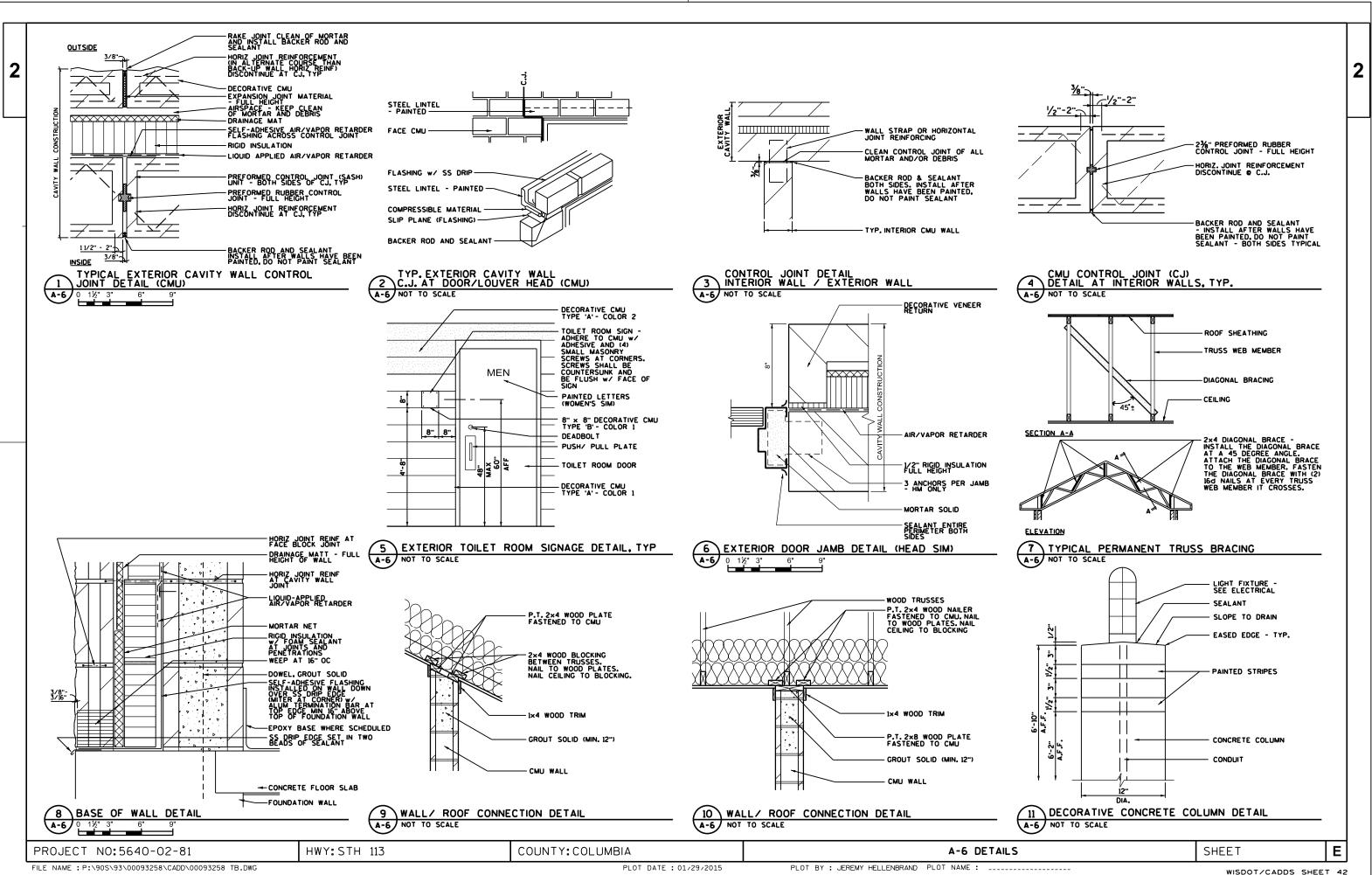
60"

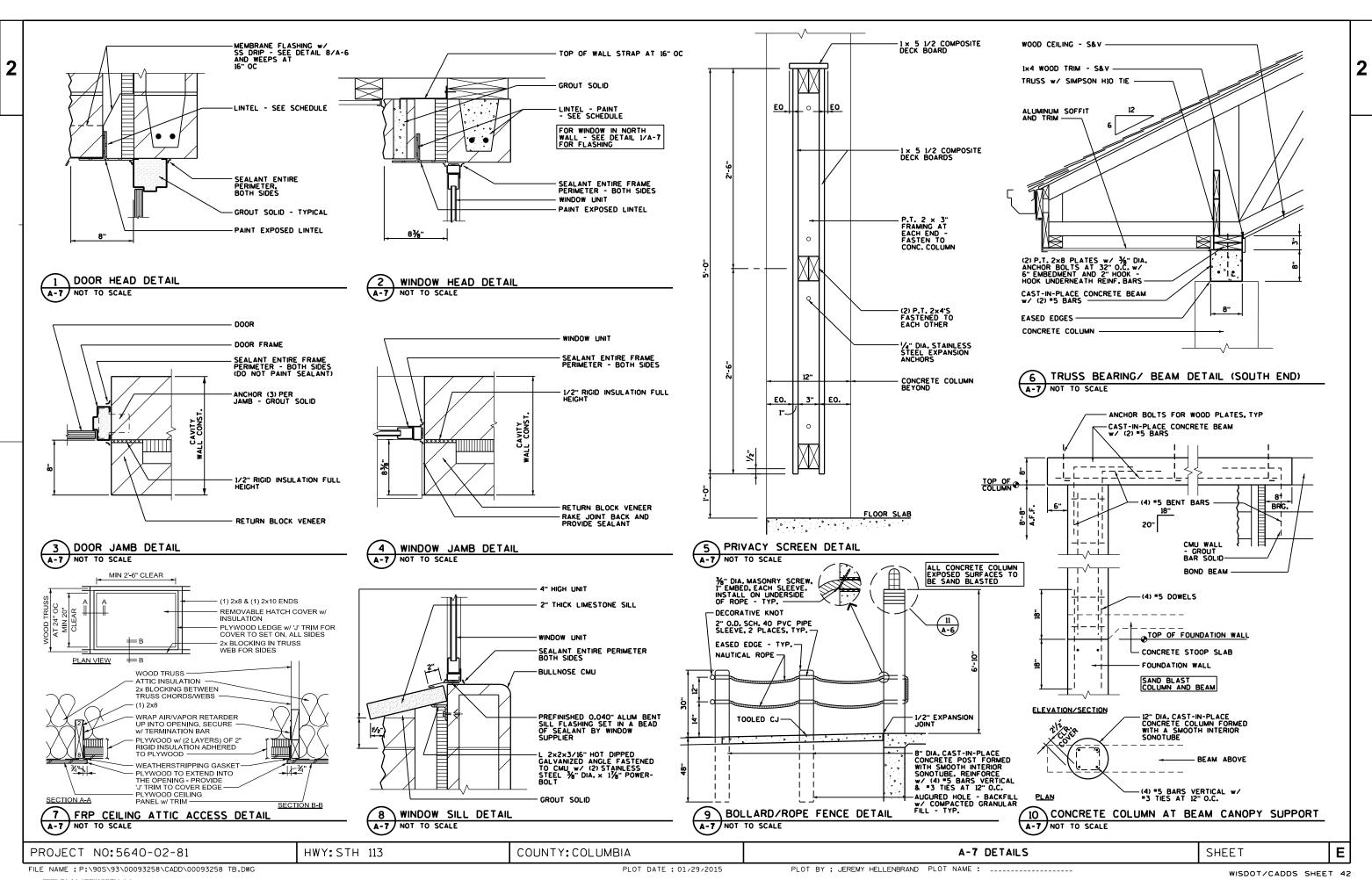
PROJECT NO:5640-02-81

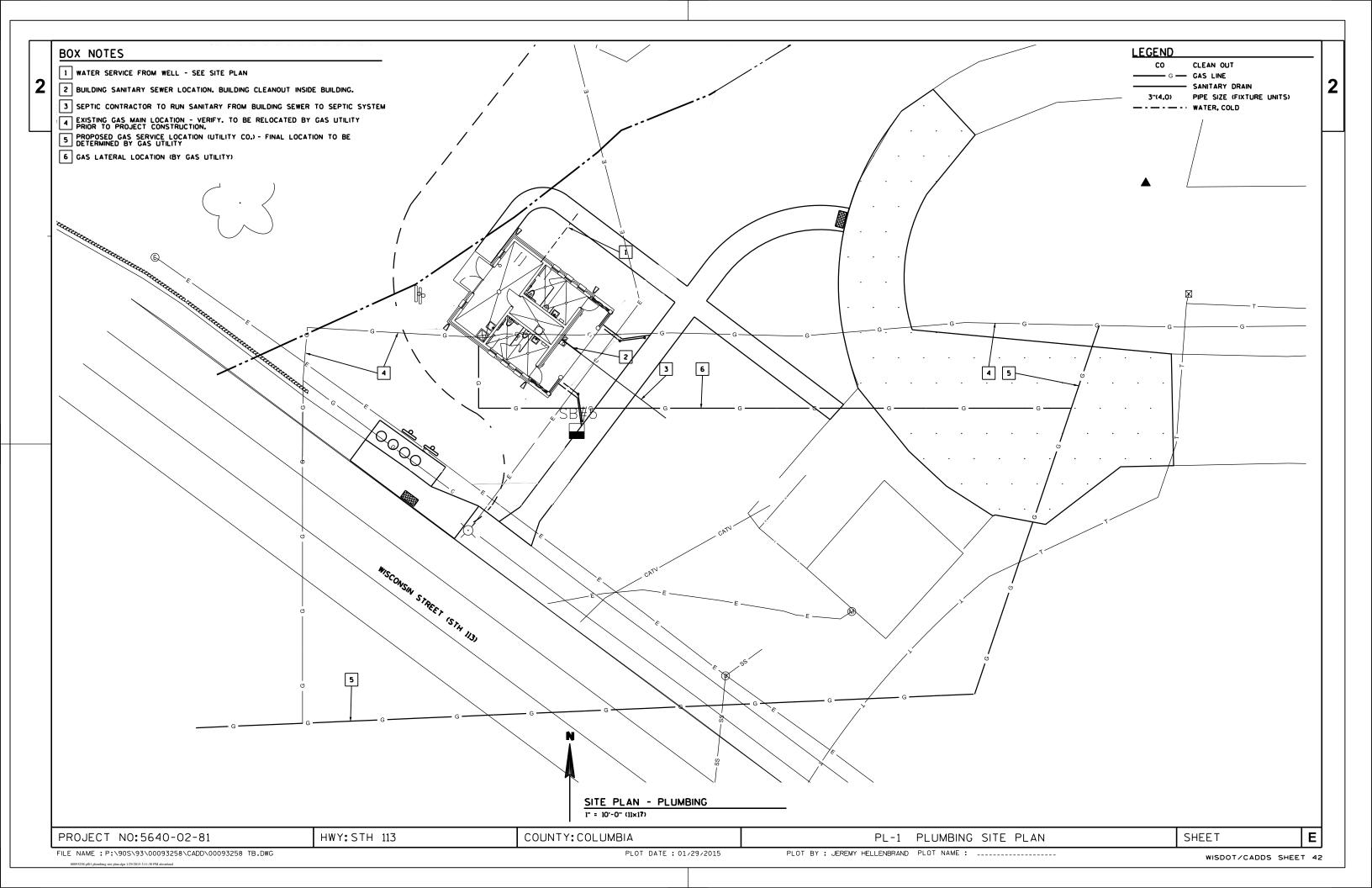
18"











PIPE SIZE (FIXTURE UNITS)

ROOF VENT TERMINAL

| | | | | | | PLI | JMBING | FIXTUR | RE AND | EQUIPMENT | SCHEDULE | |
|------|------------------------|------|-------|-----|------|-------|---------------|------------|----------|----------------|-----------------|---|
| | FIXTURE | SANI | TARY | | WA. | TER | | | | | | |
| | | | TRAP | | WSFU | | | MOUNT | | | | |
| D | NAME | DFU | SIZE | нот | COLD | TOTAL | SIZE | | REMARKS | MANUF ACTURER | MODEL | DESCRIPTION |
| DF-1 | DRINKING FOUNTAIN | 0.5 | 11/4" | | 0.25 | 0.25 | 1/2" | MFG | 1. 4. 5. | STERN WILLIAMS | BF-5000 | DUAL LEVEL EXTERIOR DRINKING FOUNTAIN (2) |
| FD-1 | FLOOR DRAIN | 3.0 | 3" | | | | | - | - | JR SMITH | 2005/2010 | ROUND ADJUSTABLE NICKEL BRONZE STRAINER w/ VANDAL PROOF SCREWS |
| FD-2 | FLOOR DRAIN | 3.0 | 3" | | | | | - | - | JR SMITH | 2142/2147 | HEAVY DUTY W/ NICKEL BRONZE STRAINER |
| HB-1 | HOSE BIBB. INTERIOR | | | | 4.0 | 4.0 | ₹4" | 24" | - | PRIER | C-258ST | SILLCOCK W/ 3/4" CONNECTION, LOOSE KEY HANDLE AND VACUUM BREAKER BACKFLOW CHECK VALVE |
| L-1 | LAVATORY | 1.0 | 11/4" | 0.5 | 0.5 | 1.0 | 1/2" | RIM | 2. 3. 4. | ACORN | 1652LRB | WALL HUNG SS LAVATORY W/ BOTTOM COVER |
| | | | | | | | | 34" MAX | | CHICAGO | 116.211.AB.1 | BATTERY-OPERATED, SENSOR-ACTIVATED SINGLE HOLE MOUNTED FAUCET W/ 0.5 GPM VANDAL RESISTANT FLOW RESTRICTOR AND GRID OUTLET (CHROME). |
| PT-1 | PRESSURE TANK | | | | | | | - | 7. | WELLXTROL | WX302 | PRESSURE TANK FOR WELL |
| SS-1 | SINK, SERVICE | 2.0 | 2" | 2.0 | 2.0 | 3.0 | 1/2" | - | 2. | EL MUSTEE | 18F | UTILITY SINK W/ LEGS AND GRID OUTLET |
| | | | | l | | | - | | | CHICAGO | 527 | DECK-MOUNT FAUCET (CHROME) |
| SS-2 | SINK, SERVICE | 3.0 | 3" | 2.0 | 2.0 | 3.0 | 1/2" | - | - | EL MUSTEE | 63M | FLOOR MOUNTED SERVICE SINK w/ GRID OUTLET |
| | | | | l | | | | | | | - | HOSE AND HOSE HOLDER |
| | | | | | | | | | | CHICAGO | 897 | WALL-MOUNT FAUCET w/ HOSE THREAD OUTLET AND VACUUM BREAKER (E27) (CHROME) |
| U-1 | URINAL | 2.0 | 3" | | 2.0 | 2.0 | - 7 ₄" | RIM | 1. | ACORN | 1702-W-1 | WALL MOUNT SS WASHOUT FIXTURE W/ REAR SPUD |
| | | | | | | | | 24" | | SLOAN | 995-1.0 | CONCEALED LOW CONSUMPTION FLUSHOMETER W/ METAL BUTTON WALL ACTUATOR (HY-100-A) |
| WC-1 | WATER CLOSET | 6.0 | 3" | | 6.5 | 6.5 | -¥₄" | TOP OF | 1. | ACORN | 1685 | FLOOR MOUNT BLOWOUT SS FIXTURE W/ REAR SPUD |
| | | | | l / | | | | SEAT | | | - | INTEGRAL ELONGATED OPEN SEAT |
| | | | | | | | | | | SLOAN | 952-1.6 | CONCEALED HYDRAULIC FLUSH FLUSH VALVE w/ METAL BUTTON WALL ACTUATOR (HY-100-A) |
| WH-1 | WATER HEATER | | | | | | - | - | 1. 6. | STATE | PCE 30 20MSA | COMMERCIAL WATER HEATER, 30 GALLONS, 9 KW. ELECTRICAL: 480,240,208/60/3 OR 277,240,208/1 |

REMARKS 1. SEE MANUFACTURER'S DATA FOR CONNECTION SIZE. 2. SEE FAUCET MANUFACTURER'S REQUIREMENTS FOR SINK OPENING SIZES AND LOCATIONS. 3. FLOOR MOUNTED FIXTURE CARRIER INSTALLED IN MECHANICAL ROOM.

- GENERAL NOTES
- 1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

 2. OPENINGS FOR MECHANICAL WORK IN WALLS, FLOORS, ROOF, CEILING, ETC., SHALL BE PROVIDED BY G.C., LOCATION AND SIZE OF THESE OPENINGS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTORS.

 3. EXTERIOR WALL AND RELATED EXTERIOR OPENINGS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE G.C. ALL ROOFING PENETRATIONS SHALL BE FLASHED AND COUNTER-FLASHED BY ROOFER. COUNTER-FLASHINGS SHALL BE PROVIDED BY CONTRACTOR.

 4. CONTRACTOR TO COORDINATE INSTALLATION OF ALL PIPING, FIXTURES & EQUIPMENT WITH OTHER CONTRACTORS TO AVOID CONFLICTS. DO NOT INSTALL ANY PIPING ABOVE ELECTRICAL PANELS. INSTALL ALL WORK TO 12. PROVIDE MAXIMUM CLEARANCES.

 5. ALL PIPING, INSIDE BUILDING, SHALL BE SURFACE MOUNTED TIGHT TO WALLS AND CEILING, ALLOWING FOR SLOPE, OR BE RUN INSIDE WALLS. DO NOT RUN IN ATTIC SPACE OR IN EXTERIOR WALLS, UNLESS NOTED OTHERWISE. TYPICAL.

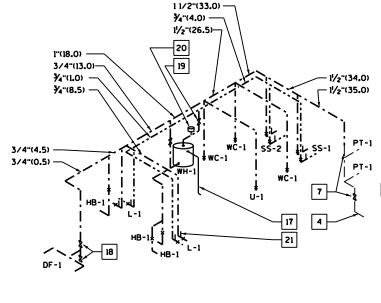
 6. SEE FOUNDATION PLAN FOR TOP OF FLOOR DRAIN ELEVATIONS.

- 4"(42.0) 3"(39.0) 3"(39.0) 3"(37.0) 11/4"(1.0) - 1 1/2"(7.0) 3"(35.0)-- 1 1/4"(2,0) 14 11/2"(6.0) FD-1 SS-2 || 11/4"(1.0) 1 1/2"(6,0) 11/4"(1.0) DF-1 11/2"(2.0) TFD-1 2"(1.0) ∖T^{FD-1} 4"(42.0) -15 3"(33.0)
- SANITARY SEWER AND VENT ISOMETRIC

4. SEE ARCHITECTURAL FOR MOUNTING HEIGHTS.
5. PROVIDE MANUFACTURER'S CANE TOUCH APRON (STERN WILLIAMS BFCA-1).

MOUNT ON WALL SHELF (BY PLUMBING CONTRACTOR),
PRESSURE TANKS AND WELL CONTROLS BY WELL CONTRACTOR.

- 7. SANITARY SEWER: MIN. INVERTS: SEE SITE PLAN FOR CONNECTION INVERT.
 ALL PIPING SHALL BE INSTALLED TO MEET THIS INVERT.
 B. BUILDING PLUMBING CONTRACTOR TO PROVIDE WATER. SANITARY SEWER,
 AND NATURAL GAS SERVICES TO FOR MISTE UTILITIES.
 9. INSTALL PLUMBING PER STATE OF WISCONSIN PLUMBING CODE, INCLUDING DEPTH, VENTING, ETC..
 10. ALL NATURAL GAS PIPING AND APPURTENANCES SHALL BE INSTALLED BY PLUMBING CONTRACTOR. VERIFY NATURAL GAS LINE PRESSURE WITH UTILITY CO. COORDINATE INSTALLATION WITH LOCAL UTILITY.
 11. APPLIANCE CONNECTIONS: FINAL GAS CONNECTIONS SHALL BE MADE BY PLUMBING CONTRACTOR. FINAL ELECTRICAL CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
 10. 21. ALL EXPOSED PIPING SHALL BE PAINTED SEE PROJECT MANUAL.
 11. SEEE HVAC PLANS FOR GAS FIRED HEATING EQUIPMENT REQUIREMENTS.
 14. ALL PIPING TO BE RUN EXPOSED IN MECHANICAL ROOM IN A NEAT AND ORDERLY (ORGANIZED) MANNER.



WATER DISTRIBUTION ISOMETRIC

BOX NOTES

GAS METER AND PRESSURE REDUCING VALVE LOCATION (UTILITY CO.)

9 NATURAL GAS FIRED APPLIANCE LOCATION - SEE HVAC 10 FIXTURE SHUT-OFF VALVES (STOPS) TO BE INSTALLED IN MECHANICAL ROOM, TYP. 11 SURFACE MOUNT FIXTURE. PROVIDE BRACKET AT ELBOW.

12 RUN LINE THROUGH WALL TO FIXTURE CONNECTION

15 RELIEF VENT. CONNECT TO TOP OF DRAIN.

EQUIPMENT CONNECTION. VERIFY CONNECTION SIZE AND LOCATION W/ MANUFACTURER. - SEE DETAIL 1/PL-2

16 RUN LINE UNDER SLAB. RUN UP INSIDE WALL INTO ATTIC. TIE INTO VENT HEADER

RUN LINE FROM RELIEF VALVE TO 3" ABOVE FLOOR. INSTALL ELBOW AT BOTTOM - DIRECT TOWARD DRAIN.

4 WATER LATERAL LOCATION - SEE SHEET PL-1

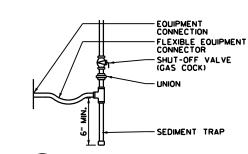
8 RUN LINE NEAR CEILING, TIGHT TO WALL

5 SANITARY LATERAL LOCATION - SEE SHEET PL-1

2 not used

14 CIRCUIT VENT

- 18 SHUT-OFF VALVE W/ DRAIN VALVE AT LOW POINT, TYP. FOR WINTERIZATION OF DRINKING FOUNTAIN BY OWNER 1 FIXTURE MOUNTS TO WALL W/ THROUGH-BOLTS, TYP
 - 19 SHUT-OFF VALVE LOCATION, TYP.
 - 20 EXPANSION TANK LOCATION STATE THERM-O-FLEX IN LINE ETC 2X
 - 21 WATER HAMMER ARRESTOR, TYPICAL ALL HOT AND COLD LAVATORY AND SINK CONNECTIONS
 - 22 RUN LINE IN THROUGH EXTERIOR WALL PROVIDE SLEEVE
- GAS SERVICE LOCATION (UTILITY CO.) SEE SHEET PL-1 23 RUN LINE THROUGH WALL INSTALL TRAP IN MECH RUN. RUN DOWN WALL SURFACE TO BELOW SLAB, TYP
- 7 WATER SERVICE UP THROUGH FLOOR BY WELL CONTROLS AND PRESSURE 24 RUN LINE UNDER SLAB. RUN LINE UP TIGHT TO WALL. TIE TANKS



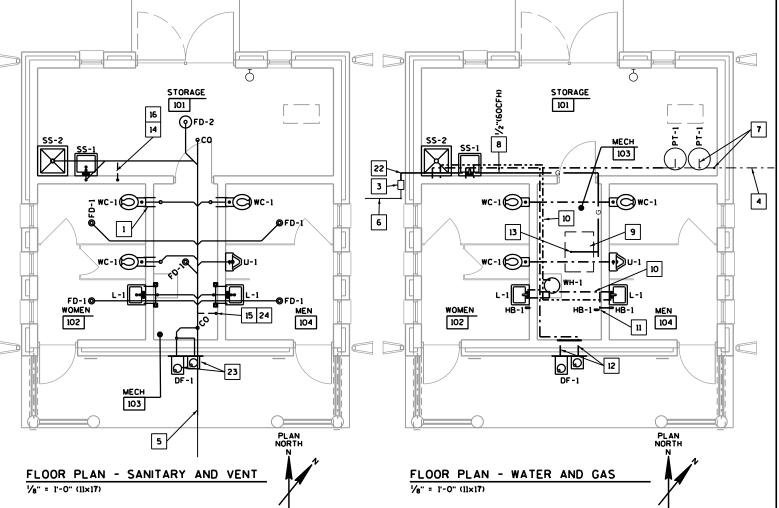
LEGEND СО

- G - GAS LINE

----- WATER, COLD ---- WATER, HOT

SANITARY DRAIN --- SANITARY VENT

1 FIXTURE GAS CONNECTION PL-2 NOT TO SCALE



PLOT DATE: 01/29/2015

COUNTY: COLUMBIA

PLOT BY : JERNEMY HELLENBRAND PLOT NAME : _____

PL-2 PLUMBING PLAN AND SCHEDULES

SHEET

Ε

PROJECT NO:5640-02-81

HWY: STH 113

NONE

| | | | GRILLE | SCHEDULE | | | | |
|-----------------------|-------------|-------------|--------------|---------------|------------|------------|------------|---------------|
| TAG | G-1 | G-2 | G-3 | G-4 | G-5 | G-6 | G-7 | G-8 |
| SERVICE | SUPPLY | SUPPLY | SUPPLY | SUPPLY | RETURN | RETURN | RETURN | RETURN |
| LOCATION | 102 - WALL | 104 - DUCT | 101 - DUCT | 103 - DUCT | 102 - WALL | 104 - WALL | 101 - DUCT | 103 - DUCT |
| VOLUME (CFM) | 250 | 250 | 555 | 145 | 250 | 250 | 555 | 145 |
| MANUFACTURER | PRICE | PRICE | PRICE | PRICE | PRICE | PRICE | PRICE | PRICE |
| MODEL | 620 | 620 | 620 | 620 | 635 | 635 | 635 | 635 |
| MATERIAL | ALUMINUM | ALUMINUM | ALUMINUM | ALUMINUM | ALUMINUM | ALUMINUM | ALUMINUM | ALUMINUM |
| SIZE (WIDE×HIGH) | 16"×8" | 16"×8" | 16"×16" | 8"×8" | 16"×8" | 16"×8" | 16"×16" | 8"×8" |
| DUCT SIZE (WIDEXHIGH) | | | | | | | | |
| S.P. | 0.018" | 0.018" | 0.030" | 0.028" | 0.007" | 0.007" | 0.008" | 0.009" |
| THROW (FT) | 22°:6-11-22 | 22°:6-11-22 | 22°:14-21-37 | 22°:7-10-18 | | | | |
| MOUNTING HEIGHT, TOP | 10'-8" AFF | 10'-8" AFF | 8'-6" AFF | 8'-10"+/- AFF | 10'-8" AFF | 10'-8" AFF | 8'-6" AFF | 8'-10"+/- AFF |
| SEE REMARKS | 8. | 8. | - | - | 8. | 8. | - | - |

| HEATER SCHEDULE | | | | | | | | |
|-----------------|-------|----------------|-----------------|--|--|--|--|--|
| TAG | | | H-1 | | | | | |
| ROOM | - LO | CATION | 103-CEILING | | | | | |
| TYPE | | | FURNACE | | | | | |
| MANUF | ACTU | RER | CARRIER | | | | | |
| MODEL | , HEA | TER | 58MCA 060-12 | | | | | |
| REO'D | CAP | (BTU/H) | 51,525 | | | | | |
| UNIT (| CAP. | INPUT | 60,000 | | | | | |
| (BTU/ | H) | OUTPUT | 56,000 | | | | | |
| CFM | | TOTAL | 1200 | | | | | |
| | | OUTSIDE | 450 | | | | | |
| TEMPE | RATU | RE RISE | 30-60° F | | | | | |
| FUEL | TYPE | | NAT. GAS | | | | | |
| SIZE | , | VIDE×DEEP×HIGH | 28.5"×17.5"×40" | | | | | |
| CONNE | CTION | SIZE | 1/2" NPT | | | | | |
| INLET | PRES | . (MINMAX.) | 4.5-13.6" | | | | | |
| VENT | SIZE | | 2" IN/OUT | | | | | |
| EXTER | NAL S | STATIC | 0.5" | | | | | |
| ELECT | RICAL | | 120/60/1 | | | | | |
| | FAN | MOTOR, HP | 1/3 | | | | | |
| | MOTO | OR AMPS | 5.8 FLA | | | | | |
| | MISC. | | | | | | | |
| EFFICI | ENCY | (%) | 91.0 | | | | | |
| CONFIG | 3 | ВОТТОМ | | | | | | |
| HORIZ | JNIAL | TOP | | | | | | |
| MOUN1 | | 9'-4" AFF | | | | | | |
| SHIPPI | NG WE | EIGHT (LBS) | 163 | | | | | |
| SEE R | EMAR | KS | 1. 4. 7. | | | | | |
| | | | | | | | | |

| | FAN SCHE | DULE |
|---|----------------------------|---|
| T | AG | F-1 |
| SE | RVICE | EXHAUST |
| Ľ | CATION | 103 - ROOF |
| M | ANUFACTURER | GREENHECK |
| М | ODEL | CUBE-98-4 |
| V | OLUME (CFM) | 450 |
| E> | CTERNAL S.P. | 0.375" |
| OF | PENING SIZE (WALL/ROOF) | 14 ¹ /2"×14 ¹ /2" |
| | ECTRICAL | 120/60/1 |
| ~ | HP OPER. POWER DRIVE | 1/4 |
| 힏 | OPER. POWER | 0.03 |
| ĮġΙ | DRIVE | BELT |
| L | RPM | 1725 |
| М | OUNTING HEIGHT. BOT. | CURB |
| SH | HIPPING WEIGHT (LBS) | 52 |
| SE | EE REMARKS | 1. 3. 6. 7. |
| | TAG | DF-1 |
| П | TYPE | ACTUATED |
| DAMPER | MANUFACTURER | TAMCO |
| ≱ | MODEL SERIES | 9000SC |
| 5 | SIZE | 12"×12" |
| | S.P. | |
| $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ld}}}$ | SEE REMARKS | 2. 7. |

| LOUVER SCHEDULE | | | | | | | |
|-----------------|-------|-----------------|------------|--|--|--|--|
| T A | \G | | L-1 | | | | |
| SE | RVIC | E | INTAKE | | | | |
| LC | CAT | ION | 100 - WALL | | | | |
| MA | NUF | ACTURER | GREENHECK | | | | |
| M | DEL | | ESD-403 | | | | |
| MA | TER | IAL | EXT. AL. | | | | |
| ٧٥ | LUM | E (CFM) | 450 | | | | |
| Si | ZE (I | WIDE×HIGH) | 24"×24" | | | | |
| D٨ | TA | FREE AREA, SF | 1.78 | | | | |
| | | VELOCITY, FPM | 253 | | | | |
| | | S.P. | 0" | | | | |
| M | UNT | ING HEIGHT, TOP | 13'-4" AFF | | | | |
| SE | E RI | EMARKS | 3. 5. | | | | |
| | TAG | | DL-1 | | | | |
| | TYP | E | ACTUATED | | | | |
| 监 | MAN | IUFACTURER | TAMCO | | | | |
| DAMPER | MOD | EL SERIES | 9000 | | | | |
| ă | SIZE | | 24"×24" | | | | |
| | S.P. | | | | | | |
| | SEE | REMARKS | 2. 7. | | | | |

HVAC GENERAL NOTES

- 1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- 2. OPENINGS FOR MECHANICAL WORK IN WALLS, ROOF, CEILING, ETC., SHALL BE PROVIDED BY G.C., LOCATION AND SIZE OF THESE OPENINGS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTORS.
- 3. EXTERIOR WALL AND RELATED EXTERIOR OPENINGS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE G.C.
- 4. ALL ROOFING PENETRATIONS SHALL BE FLASHED AND COUNTER-FLASHED BY ROOFER. FLASHINGS TO BE PROVIDED BY MECHANICAL CONTRACTORS.
- 5. CONTRACTOR TO COORDINATE INSTALLATION OF ALL CONDUIT, CONTROLS, DUCTWORK & EQUIPMENT WITH OTHER CONTRACTORS TO AVOID CONFLICTS. INSTALL ALL WORK TO PROVIDE MAX. OVERHEAD CLEARANCES, UNO.
- 6. ALL DUCTWORK TO BE GALVANIZED SHEET METAL. UNO.
- 7. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
- 8. INSTALL MANUAL BALANCING DAMPERS IN ALL BRANCHES, LOCATE IN MECHANICAL ROOM.
- 9. EXPOSED DUCT IN STORAGE ROOM TO BE PAINTED SEE PROJECT MANUAL.
- 10. SEE PLUMBING FOR GAS PIPING.

PREFABRICATED, PREFINISHED, INSULATED CURB

OPENING FRAMING BY OTHERS

DUCT SIZE TO BE SAME SIZE AS FAN INLET SIZE (12/12 - VERIFY)

-BRANCH DUCT w/ G-8 & BALANCING DAMPER (OUT OF AIRSTREAM) -RETURN DUCT FROM STORAGE ROOM -SUPPLY DUCT TO STORAGE ROOM

OUTSIDE AIR DUCT

FAN ACTUATED DAMPER (DF-1) LOCATION

11. DO NOT RUN DUCTWORK OR CONDUIT ABOVE ELECTRICAL PANELS.

BOX NOTES

- 1 DUCT TO BE SAME SIZE AS UNIT INLET SIZE
- 2 DUCT TO BE SAME SIZE AS UNIT OUTLET SIZE
- 3 DUCT TRANSITION
- 4 DUCT TO BE SAME SIZE AS LOUVER SIZE
- 5 DUCT TO BE SAME SIZE AS GRILLE SIZE, TYP
- 6 COMBUSTION AIR AND VENT CONNECTION LOCATION. VERIFY SIZE AND LOCATION W/ MANUFACTURER. PROVIDE CONCENTRIC VENT KIT AND ROUTE UP THROUGH ROOF.
- 7 RUN DUCT TIGHT TO WALL, SLOPE w/ CEILING
- 8 DROP DUCT DOWN INTO TOP OF DUCT
- BRANCH DUCT ON BOTTOM OF DUCT W/ MANUAL BALANCING DAMPER INSTALLED OUT OF THE AIRSTREAM
- 10 TURNING VANES, TYP. ALL ELBOWS
- ELECTRICAL PANEL LOCATION, ROUTE DUCT TO AVOID RUNNING ABOVE PANEL

LEGEND

DAMPER, ACTUATED

DAMPER, BALANCING

RETURN DUCT (DOWNWARD FLOW)

SUPPLY DUCT (UPWARD FLOW)

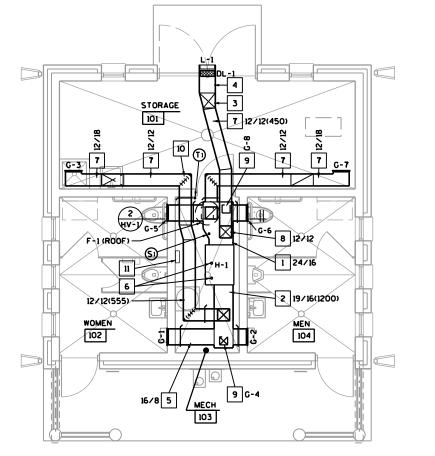
RETURN DUCT (UPWARD FLOW)

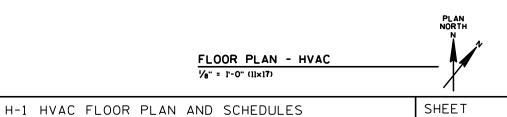
SUPPLY DUCT (DOWNWARD FLOW) 20/20 DUCT SIZE - WIDTH/HEIGHT OR WIDTH/DEPTH

20/20(1500) DUCT SIZE AND FLOW (CFM)

(SI) SENSOR AND ID NUMBER

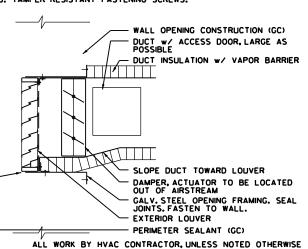
① THERMOSTAT AND ID NUMBER





SCHEDULE REMARKS

- 1. SEE MANUFACTURER'S DATA FOR MOUNTING INSTRUCTIONS.
 OPENING INFORMATION, AND CONNECTION SIZES.
 2. INSULATED TYPE.
 3. KYNAR 500 FINISH, ARCHITECT TO SELECT COLOR.
 4. TWO-STAGE GAS VALVE (40%-100%).
 5. OPENING FLASHING AROUND ENTIRE OPENING SEE DETAIL 1/HV-1.
 6. ROOF CURB DOUBLE PITCH, INSULATED TYPE FOR RIDGE MOUNTING. PREFINISHED TO MATCH FAN.
 7. SEE SPECIFICATIONS FOR SEQUENCE OF OPERATION.
 8. TAMPER-RESISTANT FASTENING SCREWS.



2 MECHANICAL ROOM SECTION HV-1 16" = 1'-0" (11×17) COUNTY: COLUMBIA HWY: STH 113

PROJECT NO:5640-02-81 FILE NAME : P:\90\$\93\00093258\CADD\00093258 TB.DWG

PLOT DATE: 01/29/2015

PLOT BY : JEREMY HELLENBRAND PLOT NAME : _____

Ε

HV-1 NOT TO SCALE

1 EXTERIOR LOUVER DETAIL

| ELEC. | TRICAL | SYMBOLS LIST |
|---------------------|---------|--|
| WALL MO | UNT | |
| SYMBOL | HEIGHT | DESCRIPTION |
| ⇔ / ⊕ | A / B | DUPLEX RECEPTACLE (SEE MODIFIER TEXT LEGEND BELOW) |
| → WP | A / B | DUPLEX RECEPTACLE WITH WEATHERPROOF (IN-USE) COVER (SEE MODIFIER TEXT LEGEND BELOW) |
| (4) | N | SPECIAL PURPOSE CONNECTION (SEE SCHEDULE FOR DESCRIPTION) |
| | С | PANELBOARD, SURFACE, NEW (SEE SCHEDULE FOR DESCRIPTION) |
| ₽/ D | R | DISCONNECT SWITCH, FUSED / NON-FUSED |
| 마어 | N | INCANDESCENT, HID, OR SIMILAR LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION) |
| | CEILING | FLUORESCENT LIGHT FIXTURE, SIZE SCALED (SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION) |
| \$ | В | WALL SWITCH |
| тс | R | PROGRAMMABLE TIMECLOCK |
| @ | | CEILING MOUNTED OCCUPANCY SENSOR 360 DEG. COVERAGE (SEE SCHEDULE FOR DESCRIPTION) |
| EM | CEILING | EMERGENCY LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION) |
| | | |

MOUNTING HEIGHT LEGEND

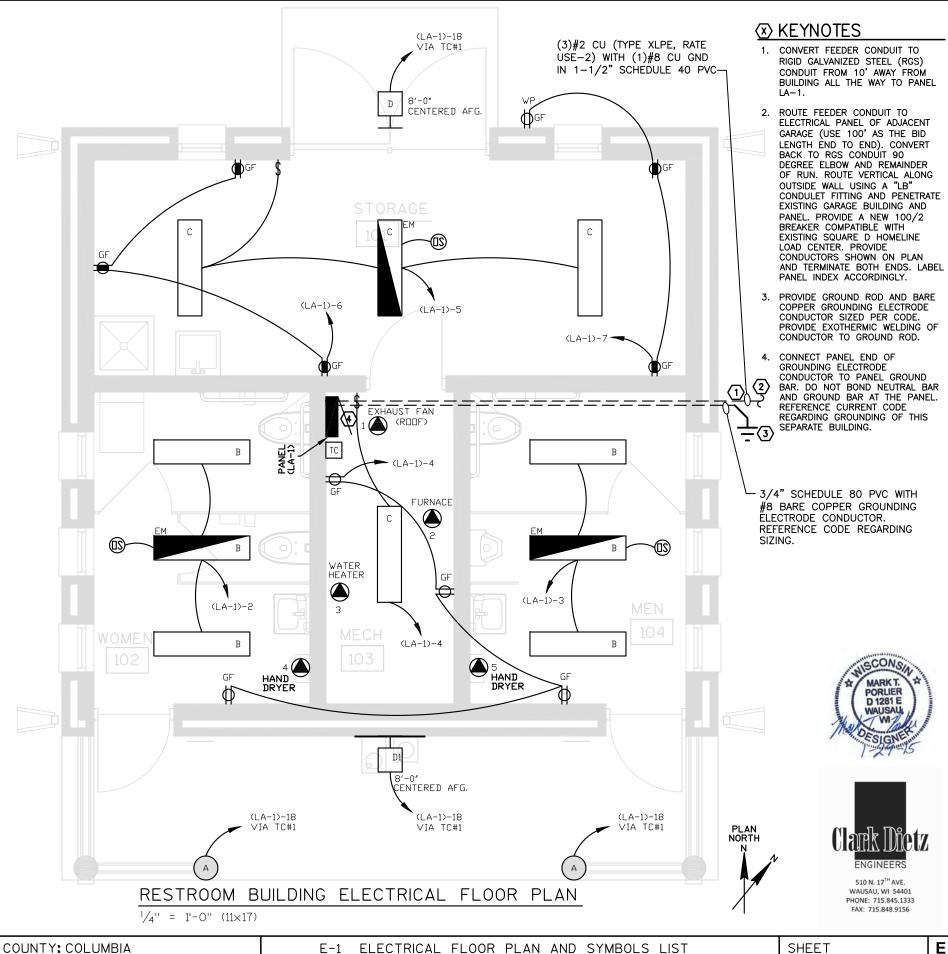
- A = 22" CENTERED AFF
- B = 46" CENTERED AFF OR 8" CENTERED ABOVE COUNTERTOP
- C = 72" TO TOP OF BOX
- N = AS NOTED ON PLANS OR SCHEDULE
- R = AS REQUIRED
- THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR INSTALLATION OF DEVICES UNLESS NOTED OTHERWISE ON DRAWINGS.
- EXACT MOUNTING HEIGHTS OF DEVICES MAY BE SLIGHTLY ADJUSTED IN THE FIELD TO ACCOMMODATE BLOCK COURSES.

RECEPTACLE MODIFIER TEXT LEGEND

GF = WITH GROUND FAULT INTERRUPTION PROTECTION

ABBREVIATIONS FOR ELECTRICAL DRAWINGS

AFF = ABOVE FINISHED FLOOR GRD, GND = GROUND AFG = ABOVE FINISHED GRADE HID = HIGH INTENSITY DISCHARGE BFG = BELOW FINISHED GRADE = HIGH PRESSURE SODIUM HPS BRKR, BKR = BREAKER HWR = HEAVY WALL RIGID = CONDUIT GALVANIZED STEEL CONDUIT CKT, CRCT = CIRCUIT NTS = NOT TO SCALE REC,RECPT = RECEPTACLE CLG = CEILING CT = CURRENT TRANSFORMER TC = TIME CLOCK EC = ELECTRICAL CONTRACTOR TYP = TYPICAL UG GFCI, GF = GROUND FAULT CIRCUIT = UNDERGROUND INTERRUPTER W/ = WITH



PLOT DATE: 9/3/2008 9:36 AM

| L. | <u>içht fixture sch</u> | <u> </u> | | | | | | | - | |
|-----|---------------------------|---|-------|-------|-------|-----|------|---------|--|-------|
| | | | LAMPS | | DRIVE | | | | | |
| TYP | E MANUFACTURER | CATALOG NUMBER | TYPE | WATTS | STYPE | NO. | VOLT | MOUNT | DESCRIPTION | NOTES |
| | COOPER-LUMARK | IC VC 1 G | LED | - | - | - | 120 | | PROVIDE A19-LED LAMP (2700K) EQUIVALENT TO A 40 WATT INCANDESCENT LAMP. FIXTURE MOUNTED DIE-CAST ALUMINUM VAPOR TIGHT LIGHT WITH GLASS GLOBE AND | 3,4,6 |
| ^ | HUBBELL | VBGL-1 | | | | | | | VANDAL GUARD CAGE WITH MOUNTING J-BOX MOUNTED ON CONCRETE COLUMN. | |
| | COOPER-METALUX | VT-LD2-58-DR100-W-120V-L820-CD2-WL-SSL-TEH-VT2SSMBK | LED | 71 | - | 1 | 120 | SURFACE | 4' INDUSTRIAL, WET LOCATION, TAMPERPROOF LATCHES. | 1 |
| " | HUBBELL-COLUMBIA | LXEM-4-40-HL-RFA-E-U-SSL | | | | | | | | |
| | COOPER-METALUX | SNLED-LD1-52-UNV-LW-L840-CD-1 | LED | 53 | - | 1 | 120 | CHAIN | 4' INDUSTRIAL STRIP WITH CHAIN SET. | 1,5 |
| " | HUBBELL-COLUMBIA | LCL-4-40-ML-E-U-CSHC | | | | | | MOUNT | | |
| | COOPER-INVUE | ENC-B01-LED-E1-GZW-TP-LCF-VA6173 | LED | - | - | 1 | 120 | WALL | CUT-OFF WALL PACK. | 2,6 |
| " | HUBBELL-SECURITY LIGHTING | RWSC-30LED-WD-120 | | | | | | | | |
| | COOPER-INVUE | ENC-B02-LED-E1-GZW-ULG-TP-LCF-CWB-VA6173 | LED | - | - | 1 | 120 | WALL | DECORATIVE UP/DOWN WALL LIGHT WITH COLD WEATHER BATTERY. | 6 |
| " | HUBBELL-SECURITY LIGHTING | RWSC-30LED-UD-120 | | | | | | | | |

SCHEDULE NOTES

- 1. PROVIDE EL400 (OR ELL14) BATTERY PACK OPTION FOR FIXTURES LABELED AS "EM" FOR TYPE "B" AND PROVIDE EL10W (OR ELL14) BATTERY PACK OPTION FOR FIXTURE LABELED AS "EM" FOR TYPE "C".
- 2. MOUNT UNIT CENTERED OVER DOORS.
- 3. MOUNTING FOR THIS FIXTURE IS THE HEAD ONLY MOUNTED ON TOP OF A COLUMN, INSTALL 1/2-INCH PVC CONDUIT IN THE COLUMN, PROVIDE A19-LED (2700k EQUIVALENT TO A 40 WATT INCANDESCENT LAMP,
- 4. EQUAL FIXTURE BY OTHER MANUFACTURER IS ACCEPTABLE WITH A/E APPROVAL ONLY.

 5. CHAIN MOUNT FIXTURE FROM CEILING AT ABOUT 8-FOOT AFF. ADJUST FIXTURE LOCATIONS TO AVOID MECHANICAL OBSTRUCTIONS. ALL FIXTURES SHALL BE MOUNTED AT THE SAME HEIGHT.
- 6. ARCHITECT TO SELECT FIXTURE FINISH.

| PAN | EL SCHE | DULE | | | | | | | | | | | | | | | | | |
|--------|------------|------------|------|------|-----|----------|--------|-----|--------|-----|---------|--------|-------|---------|-------|-----|------|-----|-------|
| | | | | | | | PHASE | TUE | 3S | | | RATING | CIRCL | JIT BRE | AKERS | | | | |
| PANEL | LOCATION | TYPE | BUS | мсв | MLO | VOLT | WIRE | NO. | CKT EA | . М | MOUNT | (AIC) | QTY | POLE | AMP | QTY | POLE | AMP | NOTES |
| (LA-1) | MECHANICAL | PANELBOARD | 100A | 100A | - | 120/240V | 1 PH | 1 | 30 | S | SURFACE | 10K | 16 | 1 | 20 | | | | 1 |
| | ROOM | | | | | | 3-WIRE | | | | | | 2 | 2 | 20 | 1 | 2 | 50 | |
| | | | | | | | | | | | | | 2 | 1 | 30 | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| OCC | UPANCY | SENS | SOR S | SCH | IEDULE | | |
|---------|-----------------|---------|--------|-----|---------|---------|-------|
| | | | MODEL | | CONTROL | MAXIMUM | |
| LABEL | MANUFACTURER | | NO. | | VOLTAGE | WATTS | NOTES |
| 0S | WATTSTOPPER | | WT-605 | | 24V | - | 2 |
| | SENSOR SWITCH | | NOTE 1 | | | | |
| OCCLIB. | NICY SENSOR SCH | EDILE V | INTEC | | | | |

OCCUPANCY SENSOR SCHEDULE NOTES

1. EQUAL BY SENSOR SWITCH.

2. PROVIDE WITH 120VOLT POWER PACK.

| | | | | | | | | | | WIRE | | | | DISC | CONNEC | Т | | | |
|-----|--------------|-----|------|----|-----|------|---------------|----------|------|------|------|-----|-----|------------|--------------|------------------|-------|----|-------|
| NO. | SERVING | HP | VOLT | PH | KW | FLA | LOC. | PNL-CKT | BRKR | NO. | SIZE | GND | С | SIZE | FUSE SIZE | ENCLS. (NEMA) | MOUNT | BY | NOTES |
| 1 | EXHAUST FAN | 1/4 | 120 | 1 | - | 5.8 | MECHANICAL RM | LA-12 | 20/1 | 2 | 12 | 12 | 3/4 | NOTE | - | 1 | NU | EC | 1,2 |
| 2 | FURNACE | - | 120 | 1 | T- | 5.8 | MECHANICAL RM | LA-14 | 20/1 | 2 | 12 | 12 | 3/4 | TS | T- | 1 | OU | EC | |
| 3 | WATER HEATER | - | 240 | 1 | 9.0 | 37.5 | MECHANICAL RM | LA-13,15 | 50/2 | 2 | 6 | 10 | 1 | - | - | - | - | | 3 |
| 4 | HAND DRYER | - | 120 | 1 | 2.3 | 19.2 | WOMEN | LA-16 | 30/1 | 2 | 10 | 10 | 3/4 | - | - | - | - | | 4 |
| 5 | HAND DRYER | - | 120 | 1 | 2.3 | 19.2 | MEN | LA-17 | 30/1 | 2 | 10 | 10 | 3/4 | - | - | - | - | | 4 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

|ABBREVIATIONS:

EC - ELECTRICAL CONTRACTOR

ES - EQUIPMENT SUPPLIER

HVAC - HEATING/VENTILATING CONTRACTOR

- NEAR UNIT ΟU - ON UNIT

TS - TOGGLE SWITCH

VFD - VARIABLE FREQUENCY DRIVE

- WITH UNIT

SCHEDULE NOTES

1. INTERCONNECT EXHAUST FAN WITH TWO 120V POWER OPERATED DAMPERS, ONE DAMPER IS ON BUILDING WEST GABLE AND ONE DAMPER IS NEAR THE FAN. PROVIDE POWER TO DAMPERS AS REQUIRED.

- PLUMBING CONTRACTOR

2. PROVIDE 120 VOLT MOTOR CONTACTOR FOR CONTROL OF VENT FAN FROM A THERMOSTAT. PROVIDE DISCONNECT NEAR VENT FAN.

PLGC

- 3. PROVIDE HARDWIRED CONNECTION TO WATER HEATER USING MINIMUM 12-INCH LENGTH OF LIQUIDTIGHT METAL CONDUIT.
 4. FURNISH BRUSHED STAINLESS STEEL HAND DRYER WORLD DRYER MODEL #DA5-973, 115 VOLT, 20 AMP OR EXCEL DRYER MODEL XL-SB, 120 VOLT, 20 AMP. BREAKER FOR DRYERS SHALL BE GFCI TYPE.





510 N. 17TH AVE. WAUSAU, WI 54401 PHONE: 715.845.1333 FAX: 715.848.9156

PROJECT NO: 0640-02-81 HWY: STH 113 COUNTY: COLUMBIA SHEET E-2 ELECTRICAL SCHEDULES

| DATE 10 LINE | MAR15 | E S 1 | IMAT | E OF QUAN | T I T I E S 5640-02-8 | |
|-----------------|------------------------|---|----------|---------------------|--------------------------|---|
| NUMBER | ITEM | ITEM DESCRIPTION | UNI T | TOTAL | QUANTI TY | |
| 0010 | 204. 0110 | Removing Asphaltic Surface | SY | 417. 000 | 417. 000 | |
| 0020 | 204. 0110 | Removing Concrete Sidewalk | SY | 200. 000 | 200. 000 | |
| 0030 | 204. 0133 | Removing Septic Tanks | EACH | 2. 000 | 2. 000 | |
| 0030 | 204. 0225 | Removing Buildings (parcel) 01. | LS | 1. 000 | 1. 000 | |
| 0040 | 204.0233 | Restroom Facility | LJ | 1.000 | 1.000 | J |
| 0050 | 205. 0100 | Excavation Common | CY | 305.000 | 305.000 | 0 |
| | | | | | | |
| 0060 | 213. 0100 | Finishing Roadway (project) 01. 5640-02-81 | EACH | 1. 000 | 1. 000 | O |
| 0070 | 305. 0110 | Base Aggregate Dense 3/4-Inch | TON | 67. 000 | 67.000 | 0 |
| 0800 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 285. 000 | 285.000 | 0 |
| 0090 | 465. 0105 | Asphaltic Surface | TON | 88. 000 | 88.000 | 0 |
| 0100 | 602. 0410 | Concrete Sidewalk 5-Inch | SF | 1, 790. 000 | 1, 790. 000 | 0 |
| 0110 | 602. 0505 | Curb Ramp Detectable Warning Field | SF | 16. 000 | 16. 000 | 0 |
| 0120 | 410 0100 | Yellow Maintenance And Densir of Haul Deads | EACH | 1 000 | 1 000 | 0 |
| 0120 | 618. 0100 | Maintenance And Repair of Haul Roads (project) 01. 5640-02-81 | EACH | 1. 000 | 1. 000 | J |
| 0130 | 619. 1000 | Mobilization | EACH | 1. 000 | 1. 000 | 0 |
| 0140 | 625. 0500 | Sal vaged Topsoi I | SY | 2, 800. 000 | 2, 800. 000 | 0 |
| 0150 | 627. 0200 | Mul chi ng | SY | 1, 710. 000 | 1, 710. 000 | |
| | | | - | | | |
| 0160 | 628. 1504 | Silt Fence | LF | 790. 000 | 790. 000 | 0 |
| 0170 | 628. 1520 | Silt Fence Maintenance | LF | 790.000 | 790.000 | |
| 0180 | 628. 1905 | Mobilizations Erosion Control | EACH | 2. 000 | 2. 000 | |
| 0190 | 628. 1910 | Mobilizations Emergency Erosion Control | EACH | 1. 000 | 1. 000 | |
| 0200 | 628. 7560 | Tracking Pads | EACH | 1. 000 | 1. 000 | |
| | | | | | | |
| 0210 | 629. 0210 | Fertilizer Type B | CWT | 1. 100 | 1. 100 | 0 |
| 0220 | 630.0130 | Seeding Mixture No. 30 | LB | 31. 000 | 31.000 | 0 |
| 0230 | 631.0300 | Sod Water | MGAL | 38. 000 | 38.000 | 0 |
| 0240 | 631. 1000 | Sod Lawn | SY | 1, 700. 000 | 1, 700. 000 | |
| 0250 | 634. 0612 | Posts Wood 4x6-Inch X 12-FT | EACH | 2. 000 | 2. 000 | 0 |
| 0260 | 637. 2210 | Signs Type II Reflective H | SF | 2. 000 | 2. 000 | |
| 0200 | 638. 2602 | Removing Signs Type II | EACH | 2. 000 | 2. 000 | |
| 0270 | 639. 0110 | Drill Hole in Earth 10-Inch | LF | 175. 000 | 175. 000 | |
| 0290 | 639. 1006 | Well Casing Pipe 6-Inch | LF | 175. 000 | 175.000 | |
| 0300 | 639. 1006 | Well Screen | LF LF | 3. 000 | 3. 000 | |
| 0300 | 037. 1700 | WELL SCIECH | LF | 3.000 | 3.000 | J |
| 0310 | 639. 2100 | Grout for Sealing Well Casing | CF | 62.000 | 62.000 | |
| 0320 | 639. 4000 | Test Pumping | EACH | 2.000 | 2.000 | |
| 0330 | 642. 5001 | Field Office Type B | EACH | 1. 000 | 1.000 | |
| 0340 | 643.0100 | Traffic Control (project) 01. 5640-02-81 | EACH | 1. 000 | 1.000 | |
| 0350 | 650. 4500 | Construction Staking Subgrade | LF | 400. 000 | 400.000 | |
| 0360 | 650. 5000 | Construction Staking Base | LF | 400. 000 | 400.000 | |
| 0370 | 652. 0220 | Conduit Rigid Nonmetallic Schedule 40 1 | LF LF | 180. 000 | 180. 000 | |
| 0370 | 002.0220 | 1/2-Inch | Ll. | 100.000 | 100.000 | J |
| 0380 | 655. 0615 | Electrical Wire Lighting 10 AWG | LF | 720 000 | 720. 000 | Λ |
| | | | | 720. 000 | | |
| 0390 0400 | 690. 0150 SPV. 0090 | Sawing Asphalt Special 01. Temporary Fence | LF LF | 44. 000 555. 000 | 44. 000 555. 000 | |
| 0400 | 341.0090 | special of reliporary refice | LF | ააა. 000 | 555. UUU | J |
| 0410 | SPV. 0090 | Special O2. Remove Curb Head | LF | 17. 000 | 17. 000 | 0 |
| 0420 | SPV. 0105 | Special 01. Restroom Facility Building | LS | 1. 000 | 1. 000 | |
| 0430 | SPV. 0105 | Special O2. Restroom Facility Plumbing | LS | 1. 000 | 1. 000 | |
| 0440 | SPV. 0105 | Special 03. Restroom Facility (HVAC) | LS | 1. 000 | 1. 000 | |
| . | | Ventilation | - | | 230 | |
| 0450 | SPV. 0105 | Special 04. Restroom Facility Electrical | LS | 1. 000 | 1. 000 | 0 |
| 0460 | SPV. 0105 | Special O5. Septic System | LS | 1. 000 | 1. 000 | 0 |
| 0470 | SPV. 0105 | Special O6. Miscellaneous Well Items | LS | 1. 000 | 1. 000 | |
| 0480 | SPV. 0105 | Special 07. Salvage and Reinstall | LS | 1. 000 | 1. 000 | |
| - | | Existing Kiosk | - | | 230 | |
| | | J | | | | |

| DATE 10MAR15 | 5 | ESTIMATE | OFQUAN | TITIES |
|--------------|---|----------|--------|------------|
| LINE | | | | 5640-02-81 |
| NUMBER ITEM | // ITEM DESCRIPTION | UNI T | TOTAL | QUANTI TY |
| 0490 SPV. | 0105 Special 08. Construction Staking S Layout | Site LS | 1. 000 | 1. 000 |

| | BASE AGGREGATE DENSE 3/4-INCH | CURB RAMP DETECTABLE WARNING FIELD YELLOW | SILT FENCE MAINTENANCE |
|---|--|--|--|
| REMOVING ASPHALTIC SURFACE ITEM NUMBER 204.0110 | ITEM NUMBER 305.0110 UNIT TON | ITEM NUMBER 602.0505 UNIT SF | ITEM NUMBER 628.1520 UNIT LF |
| UNIT SY | 67 | 16 | 790 |
| PROJECT TOTAL 417 | PROJECT TOTAL 67 | PROJECT TOTAL 16 | PROJECT TOTAL 790 |
| REMOVING CONCRETE SIDEWALK ITEM NUMBER 204.0155 UNIT SY 200 PROJECT TOTAL 200 | BASE AGGREGATE DENSE 1 1/4-INCH ITEM NUMBER 305.0120 UNIT TON 285 PROJECT TOTAL 285 | SALVAGED TOPSOIL ITEM NUMBER 625.0500 UNIT SY 2,800 PROJECT TOTAL 2,800 | TRACKING PADS ITEM NUMBER 628.7560 UNIT EA 1 PROJECT TOTAL 1 |
| REMOVING SEPTIC TANKS ITEM NUMBER 204.0225 UNIT EACH 2 PROJECT TOTAL 2 | ASPHALTIC SURFACE ITEM NUMBER 465.0105 UNIT TON 88 PROJECT TOTAL 88 | MULCHING ITEM NUMBER 627.0200 UNIT SY 1,710 PROJECT TOTAL 1,710 | FERTILIZER TYPE B ITEM NUMBER 629.0210 UNIT CWT 1.1 PROJECT TOTAL 1.1 |
| EXCAVATION COMMON ITEM NUMBER 205.0100 UNIT CY 305 PROJECT TOTAL 305 | CONCRETE SIDEWALK 5-INCH ITEM NUMBER 602.0410 UNIT SF 1,790 PROJECT TOTAL 1,790 | SILT FENCE ITEM NUMBER 628.1504 UNIT LF 790 PROJECT TOTAL 790 | SEEDING MIXTURE NO. 30 ITEM NUMBER 630.0130 UNIT LB 31 PROJECT TOTAL 31 |

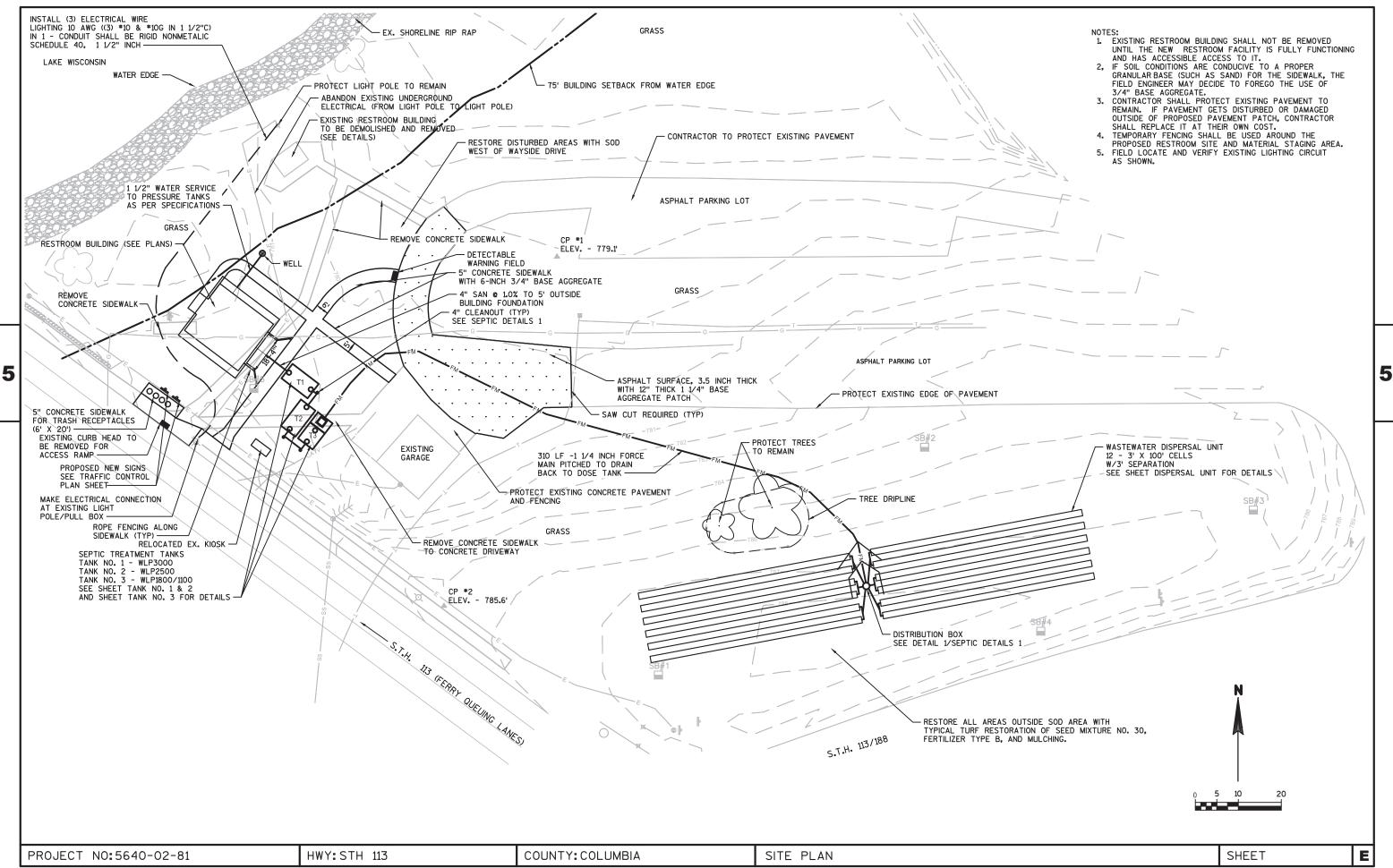
| PROJECT NO: 5640-02-81 HWY: 5TH 113 COUNTY: COLUMBIA MISCELLANEOUS QUANTITIES SHEET NO: | PROJECT NO: 5640-02-81 | HWY: STH 113 | COUNTY: COLUMBIA | MISCELLANEOUS QUANTITIES | SHEET NO: | E |
|---|------------------------|--------------|------------------|--------------------------|-----------|---|
|---|------------------------|--------------|------------------|--------------------------|-----------|---|

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : ORG DATE : ORIGINATOR : PLOT SCALE : 1:1

| 7 |
|----|
| _5 |
|) |

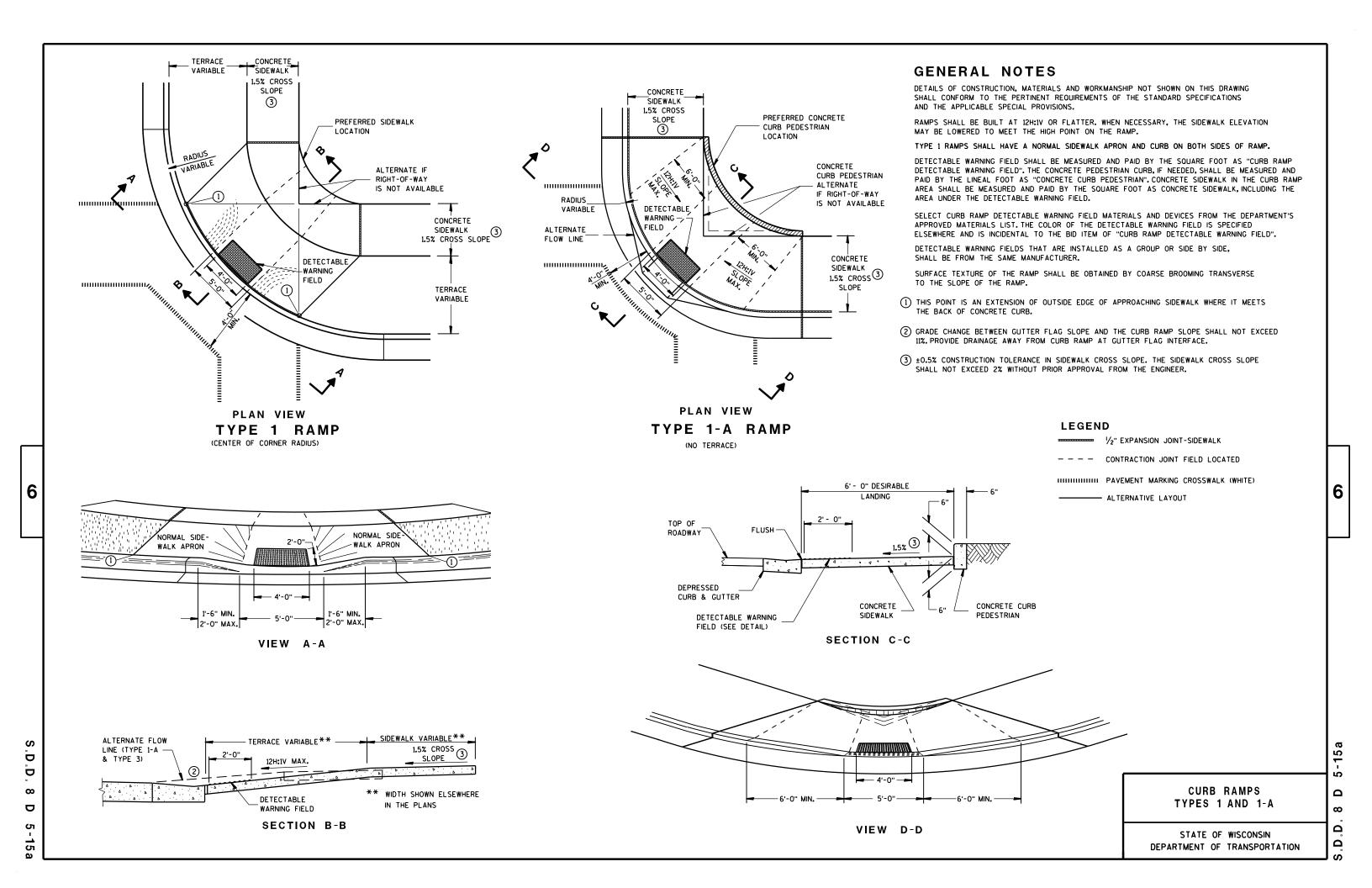
| SOD WATER | REMOVING SIGNS TYPE II | GROUT FOR SEALING WELL CASING | CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2 |
|------------------------------|------------------------------|---------------------------------|---|
| NUMBER 631.0300 | ITEM NUMBER 638.2602 | ITEM NUMBER 639.2100 UNIT CF | ITEM NUMBER 652.0220 UNIT LF |
| UNIT MGAL 38 | UNIT EA | 62 | 180 |
| JECT TOTAL 38 | 2 | PROJECT TOTAL 62 | PROJECT TOTAL 180 |
| ECT TOTAL 30 | PROJECT TOTAL 2 | | |
| | | | ELECTRICAL WIRE LIGHTING 10 AWG |
| SOD LAWN | DRILL HOLE IN EARTH 10-INCH | TEST PUMPING | ITEM NUMBER 655.0615 UNIT LF |
| M NUMBER 631.1000 | ITEM NUMBER 639.0110 | ITEM NUMBER 639.4000 | 720 |
| UNIT SY | UNIT LF | UNIT EA | PROJECT TOTAL 720 |
| 1,700 | PROJECT TOTAL 175 | PROJECT TOTAL 2 | |
| JECT TOTAL 1,700 | TROSEST TO THE TO | | |
| | | | SAWING ASPHALT |
| | | | ITEM NUMBER 690.0150 UNIT LF |
| | | | 44 |
| | | | PROJECT TOTAL 44 |
| POSTS WOOD 4X6-INCH X 12-FT | WELL CASING PIPE 6-INCH | CONSTRUCTION STAKING SUBGRADE | |
| M NUMBER 634.0612 UNIT EA | ITEM NUMBER 639.1006 | ITEM NUMBER 650.4500 | |
| 2 | UNIT LF | UNIT LF | TEMPORARY FENCE |
| DJECT TOTAL 2 | 175 | 400 | ITEM NUMBER SPV.0090.01 |
| | PROJECT TOTAL 175 | PROJECT TOTAL 400 | UNIT LF |
| | | | 555 |
| | | | PROJECT TOTAL 555 |
| | | | |
| | | | |
| | | | |
| SIGNS TYPE II RELFECTIVE H | | CONSTRUCTION STAKING BASE | REMOVE CURB HEAD |
| SIGN SIGN 637.2210 | WELL SCREEN | ITEM NUMBER 650.5000 UNIT LF | ITEM NUMBER SPV.0090.02 UNIT LF |
| ODE SIZE SF | ITEM NUMBER 639.1700 UNIT LF | 400 | 17 |
| 55-63 24" X 12" 2 | 3 | PROJECT TOTAL 400 | PROJECT TOTAL 17 |
| CT TOTAL 2 | PROJECT TOTAL 3 | | |

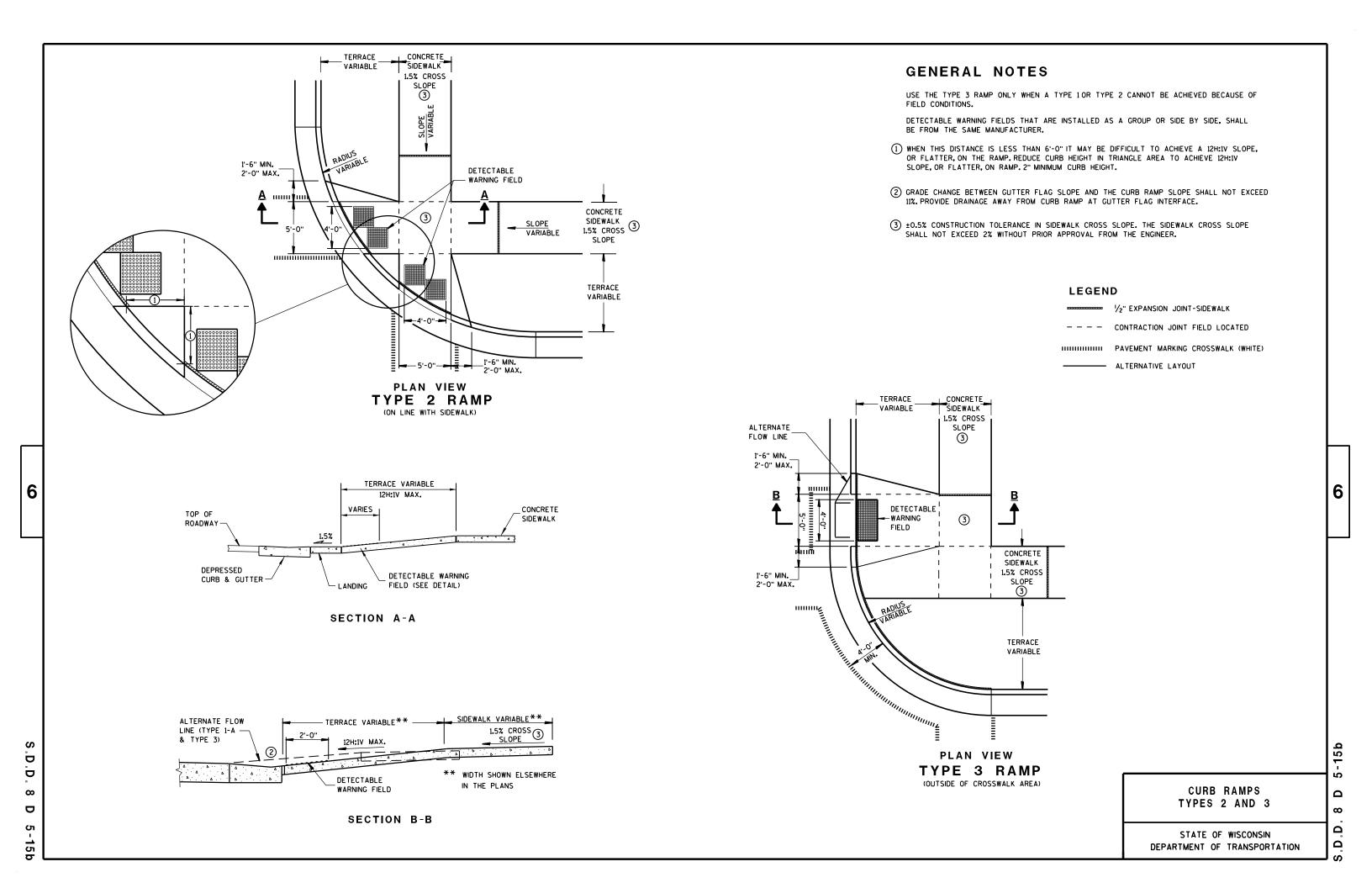
| PROJECT NO: 5640-02-81 | HWY: STH 113 | COUNTY: COLUMBIA | MISCELLANEOUS QUANTITIES | SHEET NO: | E |
|------------------------|--------------|------------------|--------------------------|-----------|---|
|------------------------|--------------|------------------|--------------------------|-----------|---|

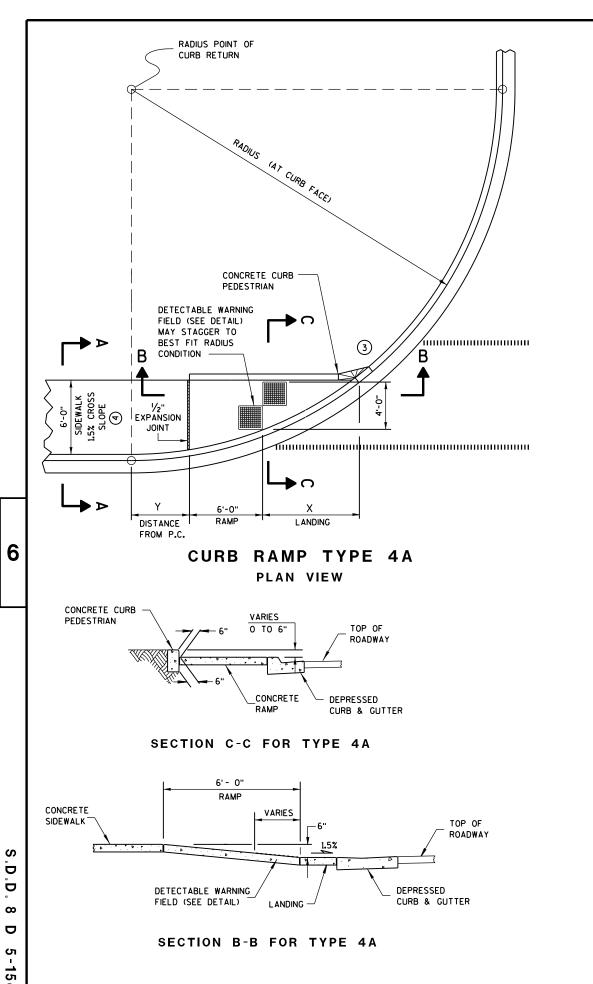


Standard Detail Drawing List

| 08D05-15A | CURB RAMPS TYPES 1 AND 1-A |
|-----------|---|
| 08D05-15B | CURB RAMPS TYPES 2 AND 3 |
| 08D05-15C | CURB RAMPS TYPES 4A AND 4A1 |
| 08D05-15D | CURB RAMPS TYPE 4B AND 4B1 |
| 08D05-15E | CURB RAMPS TYPES 5, 6, 7A, 7B & 8 |
| 08E09-06 | SILT FENCE |
| 08E14-01 | TRACKING PAD |
| 15C12-04 | TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS) |
| 15D20-02 | TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY |

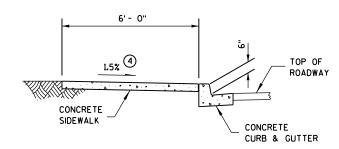




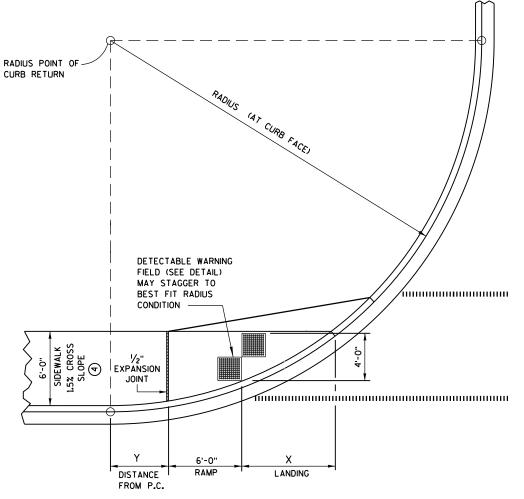


| RADIUS (AT CURB FACE) | Х | Υ |
|--------------------------|------------|-----------|
| 20 FEET | 6'-1¾" | 2'-71/4" |
| 30 FEET | 7'-11¾4" | 4'-8'/4" |
| 40 FEET | 9'-5'/4" | 6'-5" |
| 50 FEET | 10'-8¾'' | 7'-11'/4" |
| 60 FEET | 11'-10'/4" | 9'-31/2" |

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW

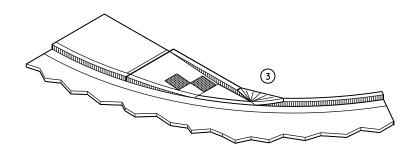
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

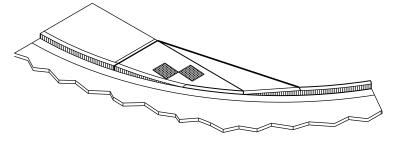
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- 4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

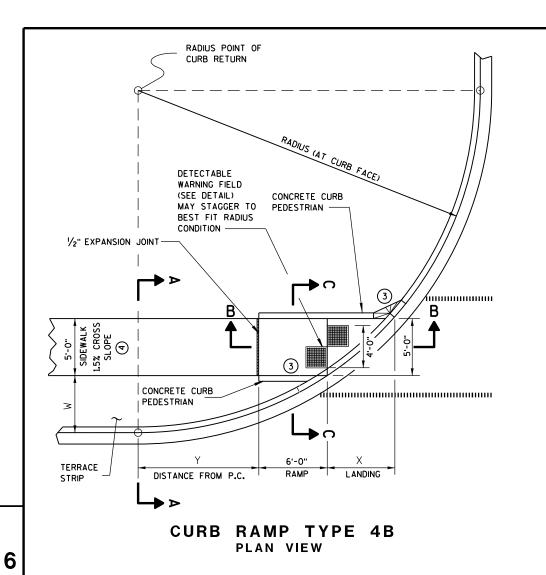
00111111011011 001111 11225 20011125

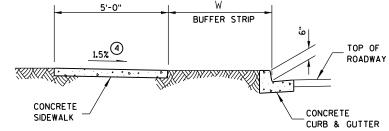
HIHHHHHH PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

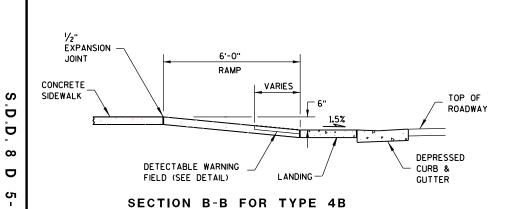
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

D.D. 8 D 5-15c





SECTION A-A FOR TYPE 4B



LEGEND

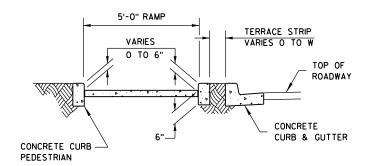
1/2" EXPANSION JOINT-SIDEWALK

---- CONTRACTION JOINT FIELD LOCATED

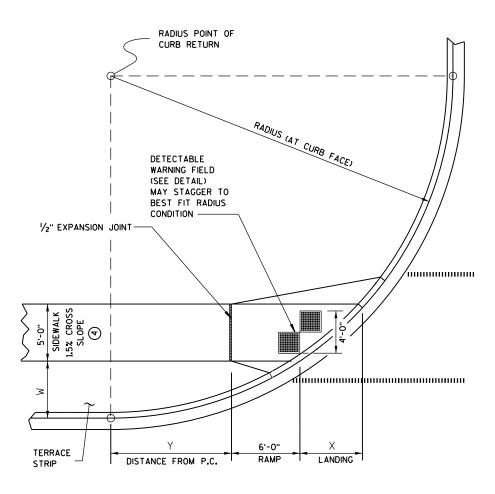
HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

| RADIUS (AT CURB FACE) | W = 3' - Ø" | | W = 4' - ∅" | | W = 5'-0" | | W = 6' - Ø" | | W = 7' - Ø" | |
|--------------------------|-------------|----------|-------------|-----------|-----------|-----------|-----------------|-----------------------|-------------|-----------|
| | Х | Y | X | Y | Х | Y | X | Y | X | Y |
| 20 FEET | 5'-51/2" | 4'-6'/2" | 4'-81/2" | 6'-0" | 4'-1" | 7'-2¾" | 3'-7" | 8'-3 ¹ /2" | 3'-11/2" | 9'-21/2" |
| 30 FEET | 7'-3¾" | 7'-1" | 6'-51/2" | 8'-11'/2" | 5'-91/4" | 10'-7" | 5'-21/2" | 12'-0" | 4'-8¾" | 13'-3'/4" |
| 40 FEET | 8'-91/2" | 9'-21/2" | 7'-10" | 11'-5'/4" | 7'-1" | 13'-41/2" | 6'-5¾" | 15'-¾" | 5'-111/2" | 16'-7'/4" |
| 50 FEET | 10'-¾" | 11'-¾" | 9'-1/4" | 13'-7'/4" | 8'-21/2" | 15'-91/2" | 7'-61/2" | 17'-9" | 6'-11¾" | 19'-6'/4" |
| 60 FEET | 11'-2'/2" | 12'-8¾" | 10'-¾" | 15'-61/2" | 9'-21/4" | 17'-11¾" | 8'-5 ¾ " | 20'-1¾" | 7'-101/2" | 22'-11/2" |

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B



CURB RAMP TYPE 4B1 **PLAN VIEW**

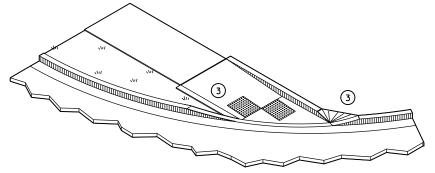
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

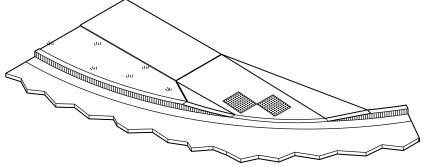
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE. SHALL BE FROM THE SAME MANUFACTURER.

- (3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- 4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

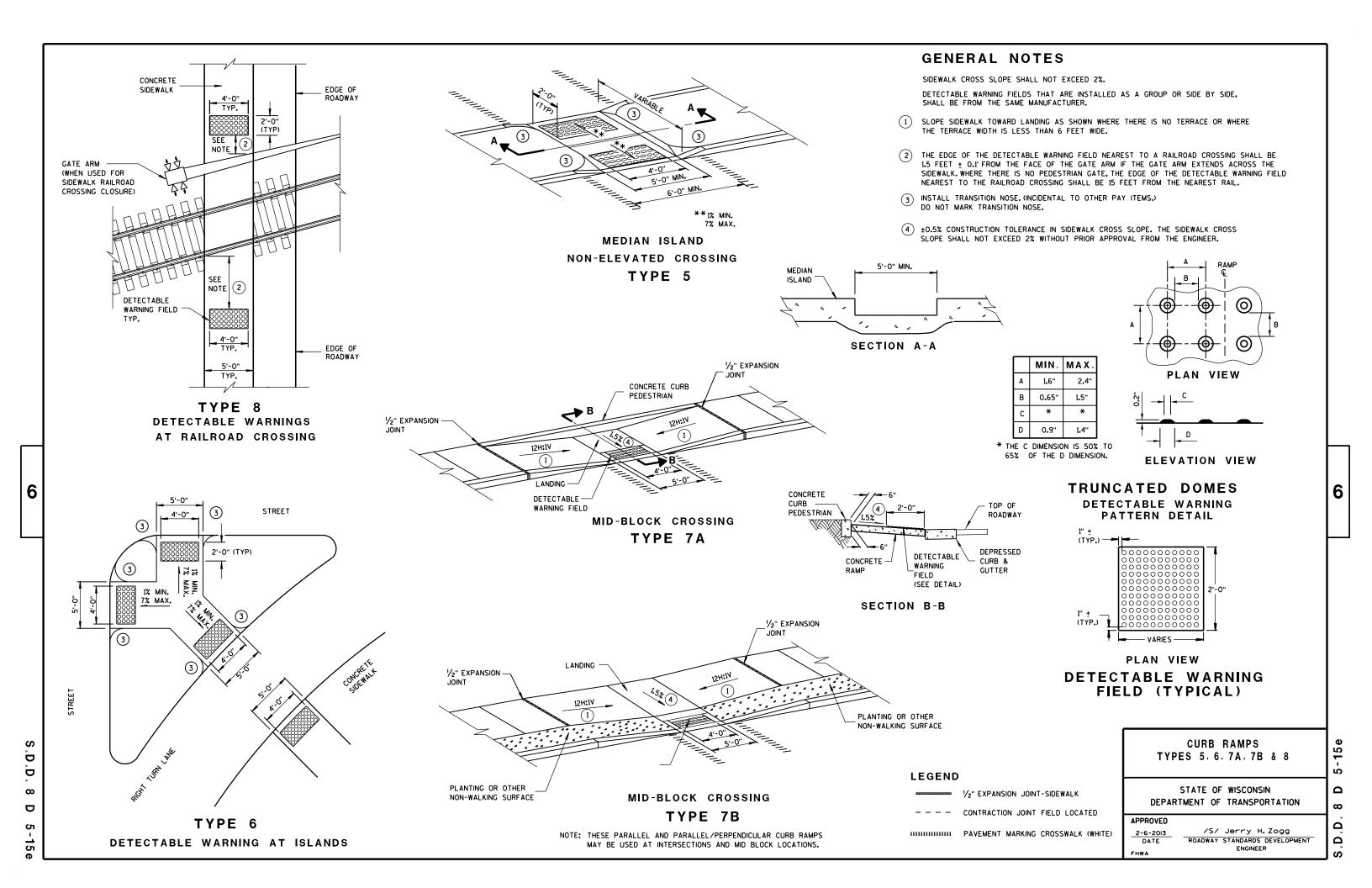
CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

-15d 2

Ω ∞

Ω Ω



TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

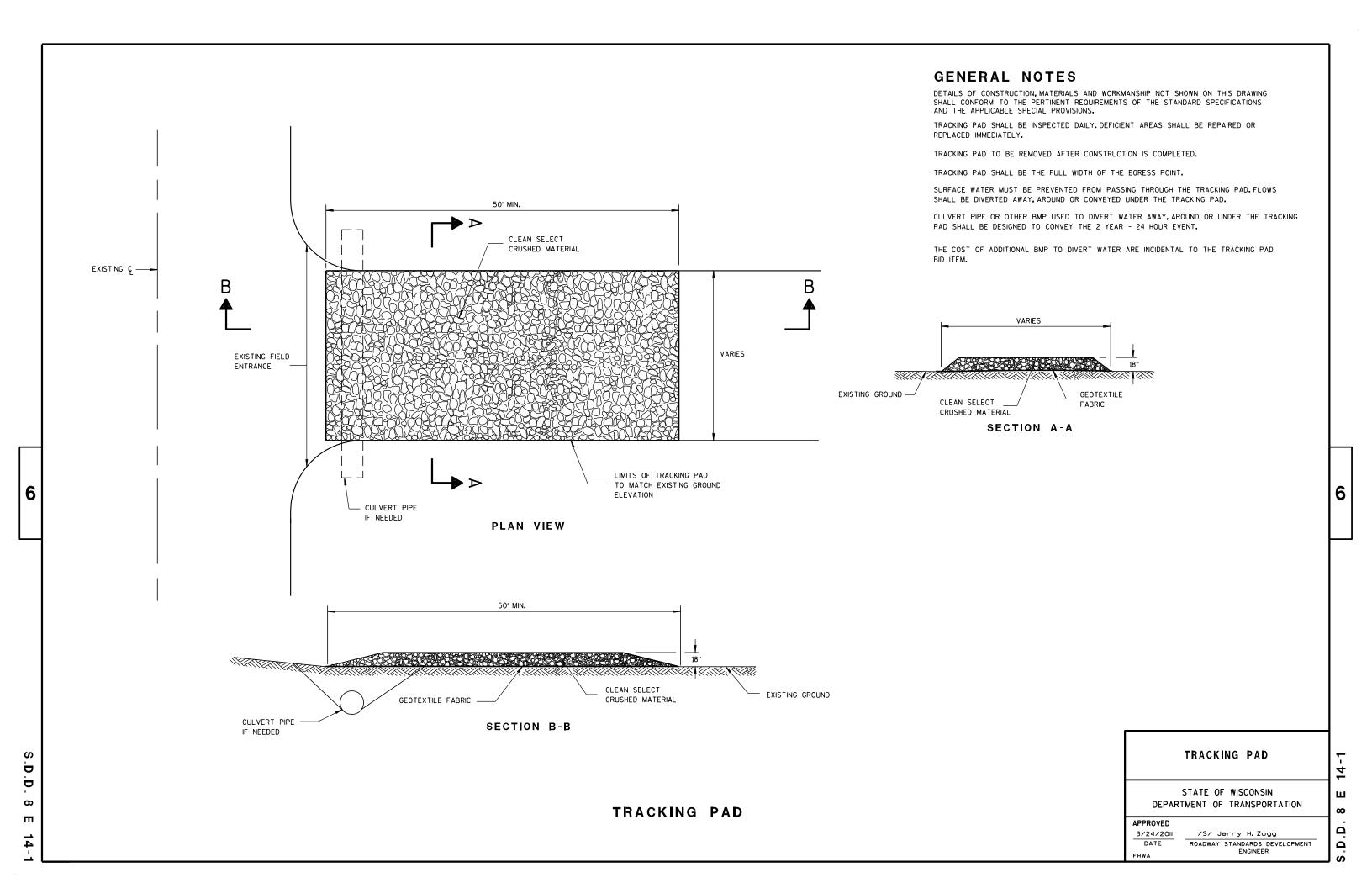
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

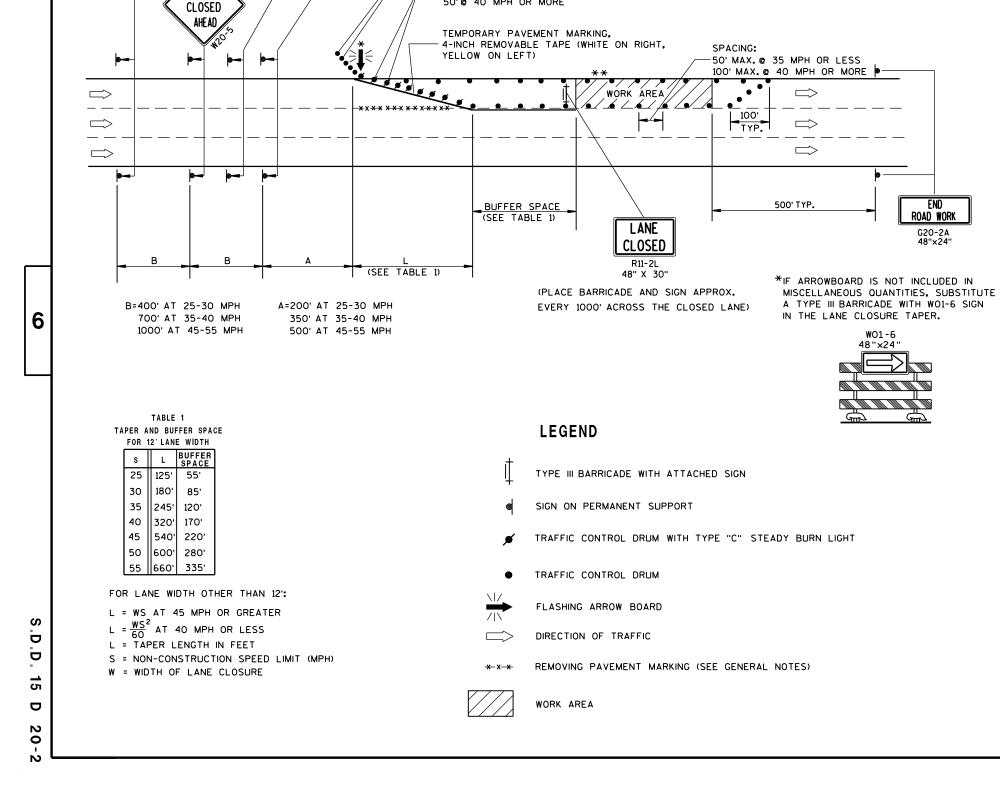
တ ∞

6









(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25' @ 35 MPH OR LESS 50' @ 40 MPH OR MORE

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE, FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W2O-1, G2O-1 AND G2O-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

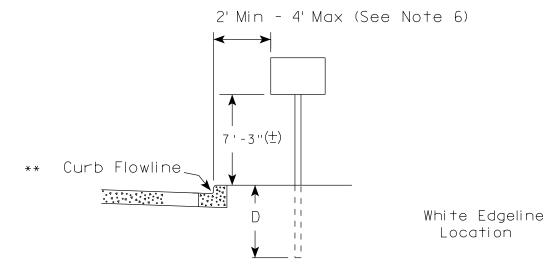
8/2013 /S/ Travis Feites

DATE TRAFFIC ENGINEER OF DESIGN

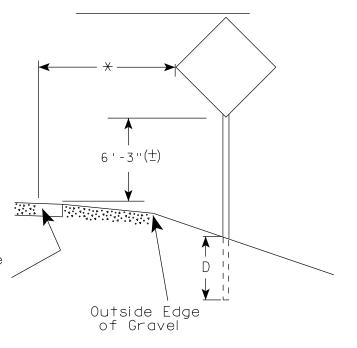
S.D.D. 15 D 2



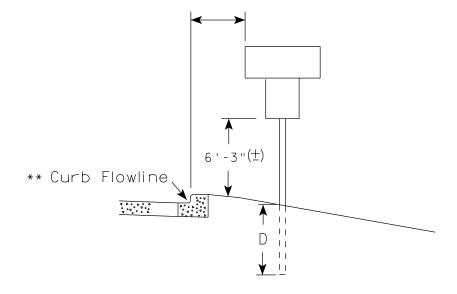
URBAN ARFA



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) A POLICE AND A POL White Edgeline D^{-1} Location Outside Edae of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY: mscsja

GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' (\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

| Area of Sign | | | |
|-----------------|-------|--|--|
| Installation | D | | |
| (Sq. Ft.) | (Min) | | |
| 20 or Less | 4' | | |
| Greater than 20 | 5' | | |

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 11/12/14

PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN COUNTY:

PLOT DATE: 12-NOV-2014 14:03

PLOT NAME :

WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

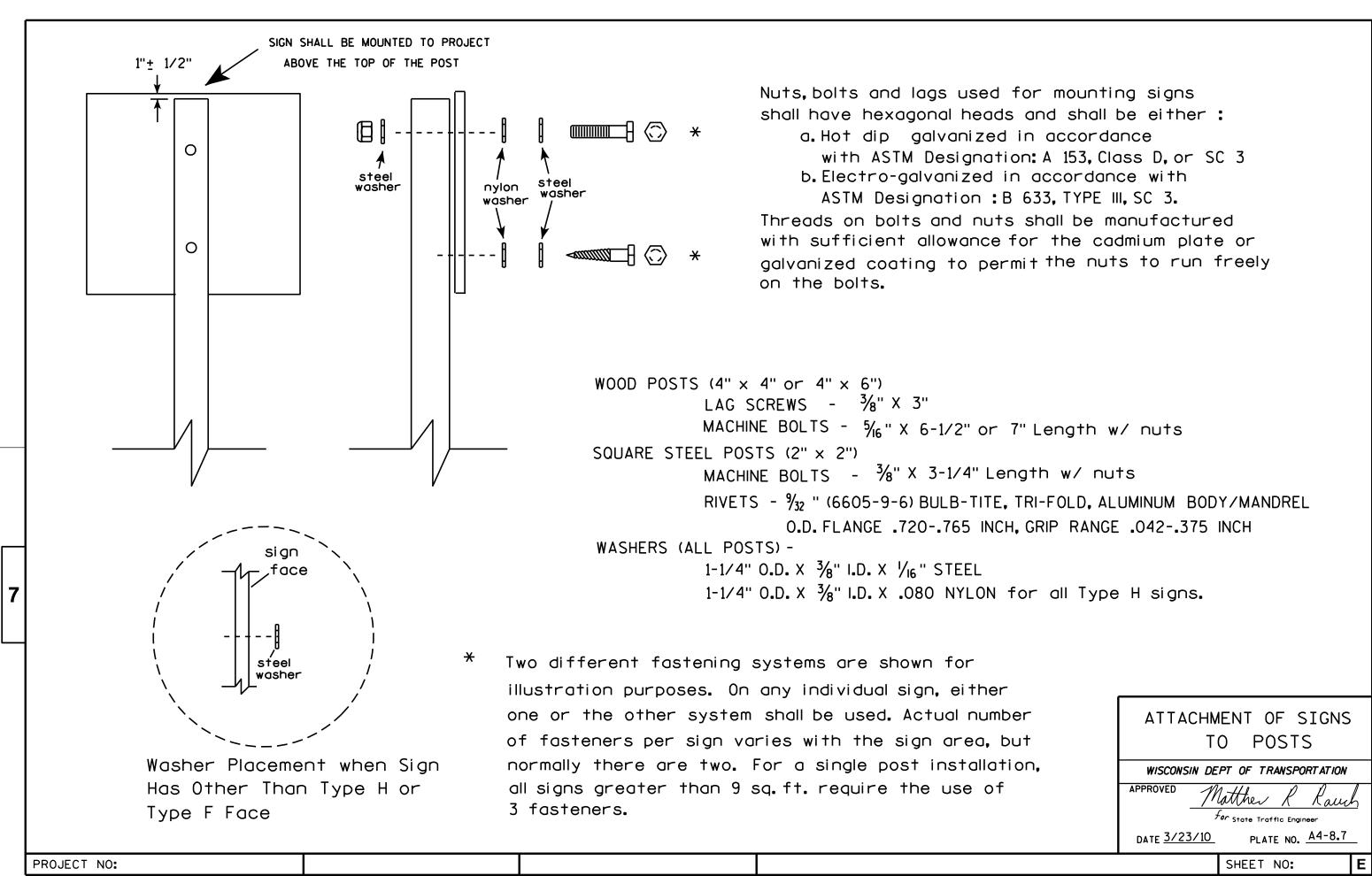
PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

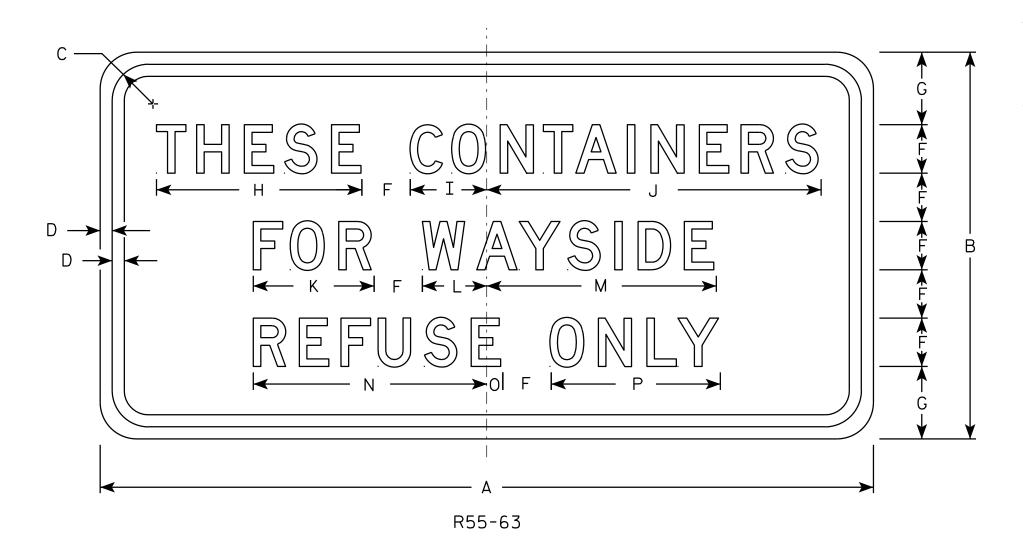
For State Traffic Engineer

NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



1 1/2 2 1/4 6 3/8 2 3/8 10 3/8 3 3/4 3/8 24 12 | 1 1/8 | 2 7 1/8 7 1/4 1/2 5 1/4 2.0 2M 2 1/4 6 3/8 2 3/8 10 3/8 3 3/4 24 7 1/8 7 1/4 1/2 2.0 12 1 1/8 3 4 5

COUNTY:

STANDARD SIGN R55-63

SHEET NO:

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/30/11 PLATE NO. R55-63.5

BROJECPROOECT NUMBER: FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5563.DGN

PLOT DATE: 30-MAR-2011 13:27

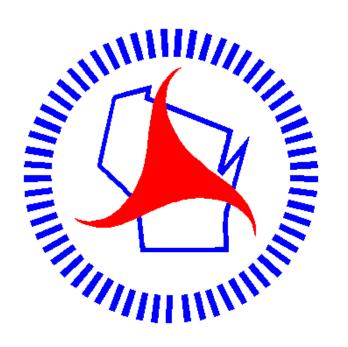
HWY:

PL@RCD.DTATE: :307MAR928011 13:27

PLOT BY: mscj9h OriginatoPLDTDaMAMEuever PLOT SCALE: 2.979520:1.000000

WISDOT/CADDS SHEET 42

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov