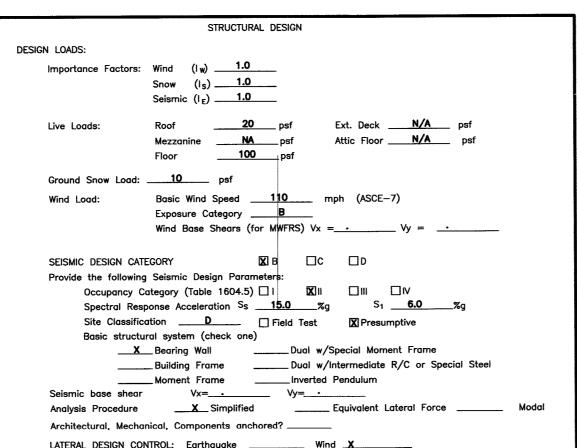
EXIT REQUIREMENTS SHOWN ON PLANS ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1) ACTUAL TRAVEL DISTANCE SHOWN ON REQUIRED DISTANCE BETWEEN ACTUAL DISTANCE SHOWN ON PLANS 1 Corridor dead ends (Section 1016.3) 2 Single exits (Table 1018.2) 3 Common Path of Travel (Section 1004.1.1)

EXIT WIDTH									
LICE ODOLID	(A)	(B)			(C)		EXIT WIDTH	(in) ^{2,3,4,5}	5,6
USE GROUP OR SPACE DESCRIPTION	SPACE AREA 1 AREA 1 CALCULATED	PER O	S WIDTH CCUPANT 1005.1)	(SECTION	ED WIDTH 1 1005.1) -b)xc		L WIDTH ON PLANS		
		1004.1.1)		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
Business	2,137	100	22	N/A	.2	N/A	4.4*	N/A	66"

- 1 See Table 1004.1.1 to determine whether net or gross area is applicable.
- 2 Minimum stairway width (Section 1005.1); min. corridor width (Section 1018.2); min. door width (Section 1008.1.1)
- 3 Minimum width of exit passageway (Section 1023.2) 4 See Section 1004.5 for converging exits.
- 5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total requ

6 Assembly occupancies (Section 1028)



PLUMBING FIXTURE REQUIREMENTS								
USE	WATERCI	LOSETS	URINALS	LAVATO	RIES	SHOWERS/	DRINKING	FOUNTAINS
	MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
EXISTING	T -	-	-	-	_	-	-	-
NEW-SHOWN	3	5	2	3	3	_	1	1
REQUIRED	1	1	0	1	1	-	1	1
22 OCCUPANTS BY CODE (11 MALE, 11 FEMALE)								

LOT OR PARKING AREA	TOTAL# OF PARI	KING SPACES	# OF ACCESSIBLE	SPACES PROVIDED	ACCESSIBLE
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	PROVIDED TOTAL #
	22	30	0	2	2

SPECIAL APPROVALS: N/A

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget. ▼ Prescriptive □ Performance □ Energy Cost Budget

Climate Zone: 3a Heating Degree days (base 65 degrees F): 3611 Cooling Degree days (base 50 degrees F): 4154 Vertical Glazing/Wall Area Pct.: 12%
Building Type: Office (Rest Area)

PRESUMPTIVE BEARING CAPACITY:

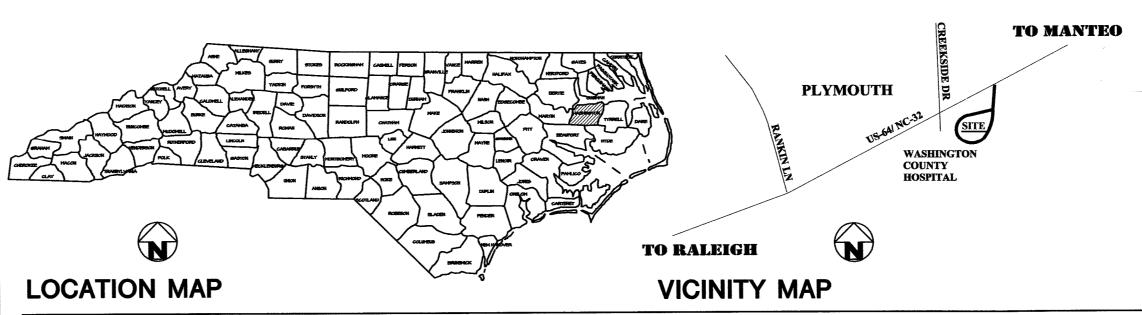
Building Type: Unice (Rest Area)					
COMPONENT NAME / DESCRIPTION	GROSS AREA	CAVITY R-VALUE	CONT. R-VALUE	PROPOSED U-FACTOR	BUDGET U-FACTOR
DOF 1: INSULATION ENTIRELY ABOVE DECK	3093		39.0	0.025	0.048
CTERIOR WALL 1: WOOD-FRAMED, 16" O.C.	2639	0.0	19.5	0.043	0.089
INDOW 1: VINYL FRAME, DOUBLE PANE, CLEAR, SHGC 0.81, PF 0.33	140		 -	0.550	0.650
INDOW 2: VINYL FRAME, DOUBLE PANE W/LOW-E, CLEAR, SHGC 0.31, PF 0.16	184			0.290	0.650
OOR 1: GLASS; (>50% GLAZING): METAL FRAME, CLEAR, ENTRANCE DOOR, SHGC 0.25, PF 0.43	180			0.320	0.900
.00R 1: UNHEATED, SLAB-ON-GRADE, HORIZ. W/ VERT. INSUL 2FT.	222		7.5		

ELECTRICAL SUMMARY: SEE ELECTRICAL

US-64 REST AREA RENOVATION

REST AREA BUILDING RENOVATION/ ADDITION WASHINGTON COUNTY, NORTH CAROLINA





SYMBOLS BRICK VENEER SPRAY FOAM INSULATION **ELEVATION MARK** REVISION NUMBER BATT INSULATION / BLOWN CONCRETE __ DRAINAGE / SLOPE ARROW ELEVATION NUMBER DRYWALL OR PLASTER ______ EXISTING CONTOURS DRAWING SHEET NUMBER **EXISTING ELEVATION** ROUGH CARPENTRY DRAWING NUMBER DRAWING SHEET REFERENCE NUMBER UNDISTURBED EARTH BLOCKING NEW ELEVATION BUILDING OR WALL SECTION NO. EXISTING TREE COMPACTED FILL FINISH CARPENTRY DRAWING SHEET NUMBER

ABBREVIATIONS & SYMBOLS

AL.	ALUMINUM
AB.	ANCHOR BOLT
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
6	AT
AYG.	AVERAGE
BB	BACK TO BACK
BSMT.	BASEMENT
BRG.	BEARING
BM.	BENCH MARK
BLKG.	BLOCKING
	BOARD
BLDG.	BUILDING
CH	CEILING HEIGHT
⊈	CENTER LINE
cc	CENTER TO CENTER
C.I.	CAST IRON
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
α	CEILING JOIST
C/J	CONSTRUCTION JOINT
CRS	COURSES
DET.	DETAIL
DIA.	DIAMETER
	DOUBLE
	DOWN SPOUT

ELEC.	ELECTRICAL
ELEV.	ELEVATION
EXIST.	EXISTING
EMC	ELECTRIC WATER COOLER
E/J	EXPANSION JOINT
EBC	EXTENDED BOTTOM CHORD
EXT.	EXTERIOR
FFE	FINISH FLOOR ELEVATION
FIN.FL.	FINISH FLOOR
F.E.	FIRE EXTINGUISHER
F.D.	FLOOR DRAIN
FTG.	FOOTING
FRGNB	FIRE RATED GYPSUM WALL
GALV.	GALYANIZED
GA.	GAUGE
GL.	GLASS
e₽.	GLAZED PAVER TILE
GWB	GYPSUM SHEATHING
GYP.	GYPSUM
HM	HOLLOW METAL

EYE WASH

EXT.	EXTERIOR
FFE	FINISH FLOOR ELEVATION
FIN.FL.	FINISH FLOOR
F.E.	FIRE EXTINGUISHER
F.D.	FLOOR DRAIN
FTG.	FOOTING
FRGNB	FIRE RATED GYPSUM WALLBOA
GALY.	GALVANIZED
GA.	GAUGE
GL.	GLASS
€P.	GLAZED PAVER TILE
GMB	GYPSUM SHEATHING
GYP.	GYPSUM
HM	HOLLOW METAL
HOR.	HORIZONTAL
H.B.	HOSE BIBB
INSUL.	INSULATION
INT.	INTERIOR
JST.	JOIST
LAV.	LAVATORY
M.H.	MAN HOLE

M.O.	MASONRY OPENING	STL.	STEEL
MAT.	MATERIAL	STG.	STORAGE
MAX.	MAXIMUM	S.A.C.	SUSPENDED ACC
MIN.	MINIMUM	T\$G	TONGUE AND GE
MTD.	MOUNTED	T.O.F.	TOP OF FOOTING
MLDG.	MOULDING	T.O.J.	TOP OF JOIST
	NOT TO SCALE	T.O.S.	TOP OF STEEL
	NUMBER	T.O.W.	TOP OF WALL
	ON CENTER	т.	TREAD
	OPENING	TYP.	TYPICAL
PNL.	PANEL	UNFIN.	UNFINISHED
PLASLAN	APLASTIC LAMINATE	U.O.N.	UNLESS OTHERW
12	PLATE	VERT.	VERTICAL
	PLUMBING	MMM.	WELDED WIRE M
PLYMD.	PLYWOOD	W	MITH
LB.(#)	POUND	MD.	MOOD
PREFAB.	PREFABRICATED	102	ROOM/SPACE N
P.S.I.	POUNDS PER SQUARE INCH		
REQ'D	REQUIRED	₿	WINDOW TYPE
R.	RISER	2	DOOR TYPE
SAN.	SANITARY	_	DOOR III L
SEC.	SECTION	A	ROOM SIGN TYP
SHT.	SHEET	•	
SHTHG.	SHEATHING		CENTER LINE

SPECIFICATIONS

SERVICE SINK

COUSTICAL CEILING ROOVE WISE NOTED NUMBER ---- HIDDEN LINE **──◆**── BREAK LINE

CONSTRUCTION FENCE

DRAWING SHEET INDEX

TI BUILDING CODE SUMMARY & TITLE SHEET

SITE DEVELOPMENT

- LI.O TITLE, DESCRIPTION, LOCATION
- L2.0 PROPOSED SITE PLAN L3.0 EXISTING SITE PLAN
- L4.0 DEMOLITION PLAN
- L5.0 LAYOUT PLAN L6.0 GRADING PLAN

LT.O DETAILS L8.0 DETAILS

ARCHITECTURAL

- AI DEMOLITION PLAN & NOTES A2 FLOOR PLAN
- A3 ROOF PLAN, DETAILS REFLECTED CEILING PLAN, DETAILS
- EXTERIOR ELEVATIONS
- BUILDING SECTIONS
- WALL SECTIONS & DETAILS INTERIOR ELEVATIONS & DETAILS
- INTERIOR ELEVATIONS & DETAILS, ROOM FINISH SCHEDULE
- INTERIOR ELEVATIONS, FLOOR TILE PATTERNS

DOOR & WINDOW SCHEDULES, DETAILS

STRUCTURAL

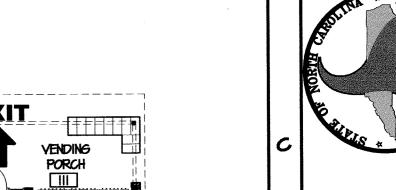
- SI FOUNDATION PLAN & DETAILS
- 52 ROOF FRAMING PLAN & DETAILS 53 BUILDING FRAME SCHEMATICS, LINTELS & DETAILS
- S4 DETAILS
- PI FIXTURE SCHEDULE & DETAILS
- P2 DRAINWASTE/VENT PLAN
- P3 SUPPLY PLAN

P3 SOLAR WATER HEATER DETAILS

- MECHANICAL MI HVAC SCHEDULES
- M2 HVAC PLAN
- ELECTRICAL EI NOTES, DETAILS & SPECIFICATIONS
- E2 LIGHTING PLAN & ENERGY CODE
- ES POWER PLAN, SCHEDULES & RISERS

- CONCHAS

U2 UTILITIES NOTES & DETAILS



108

EGRESS PLAN

SCALE: 3/32" = 1'-0"

Washington County Rest Area/ Visitor Ce 1248 US-64 EAST PLYMOUTH, NC 278

TIP PROJ. NO. K-5000 41532.3.1 CONTRACT ID NO. FEDERAL ID NO. NHS-0064(158) **REVISIONS** DATE NO.

DATE ISSUED: 10/9/12 DRAWN BY: AS CHECKED BY: VB

DESIGN ENGINEERS IT DIVISION, NCD

SHEET NO.

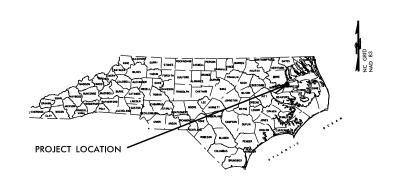
1 **OF**

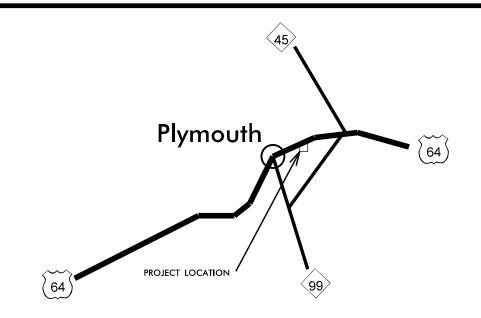


HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
K-5000	41532.3.1 L1.0		8
FED. PROJ. #	DESCRIPTION	DIVISION	
_	RA Renovation		1





Summary of Quantities

Pay Item	Description	Unit	Quantity
6975000000	Site Demolition	LS	1
6147000000	Tree Preservation / Protection Fence	LF	100
2591000000	4" Concrete Sidewalk	SY	400
6975000000	Landscape and Site Grading	LS	1
690000000	Topsoil	CY	50
6975000000	Site Stormwater Drainage	LS	1
2761000000	9" Concrete Border	SY	18
6975000000	3" PVC Sleeve	LF	90
6975000000	Permeable Interlocking Concrete Pavers	SF	1210
697000000	5' Bench with Brick Base	EA	8
6975000000	Relocate Post Top Light	EA	1
6975000000	Relocate Telephone Pedestal	EA	1
2605000000	Concrete Curb Ramp	EA	3



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

US 64 Rest Area Plymouth LOCATION:

TYPE of WORK: Rest Area Renovation

Washington County COUNTY:

CONVENTIONAL SYMBOLS

County Line	
City or Town Line	
Exist. Right of Way Line Marker	
Prop. Right of Way Line Marker	
(By Others)	
Prop Right of Way Line Marker	
(By Contract)	
Exist. Control of Access Line	
Prop. Control of Access Line	
Property Line	
Easement Line	
Slope Stake Line	
Exist. Fence.	
Prop. Woven Wire Fence	• • • •
Prop. Chain Link Fence	
Exist. Road	
Prop. Road	
Guardrail	
Survey Line	
Denotes Line Equality	
Bridge	
Culvert	=
Railroad	
Woods	· · · · · · · · · · · · · · · · · · ·
Exist. Telephone Pole	
Prop. Telephone Pole	_ _
Tower Pole and Line	
Exist. Power Pole	•
Prop. Power Pole	0-
Sanitary Sewer Line	→ • — —
Water Line	
Gas Line	
Picnic Shelter	
Regeneration	$\overline{q777}$
Reforestation	
	* 2 W W W W W W W -

INDEX OF L SHEETS:

L 1.0 ... TITLE, DESCRIPTION, LOCATION

L 3.0 ... EXISTING SITE PLAN

L 4.0 ... DEMOLITION PLAN

L 5.0 ... LAYOUT PLAN

L 6.0 ... GRADING PLAN

L 7.0 ... DETAILS

L 8.0 ... DETAILS

PREPARED BY: DLW date: 12/2012

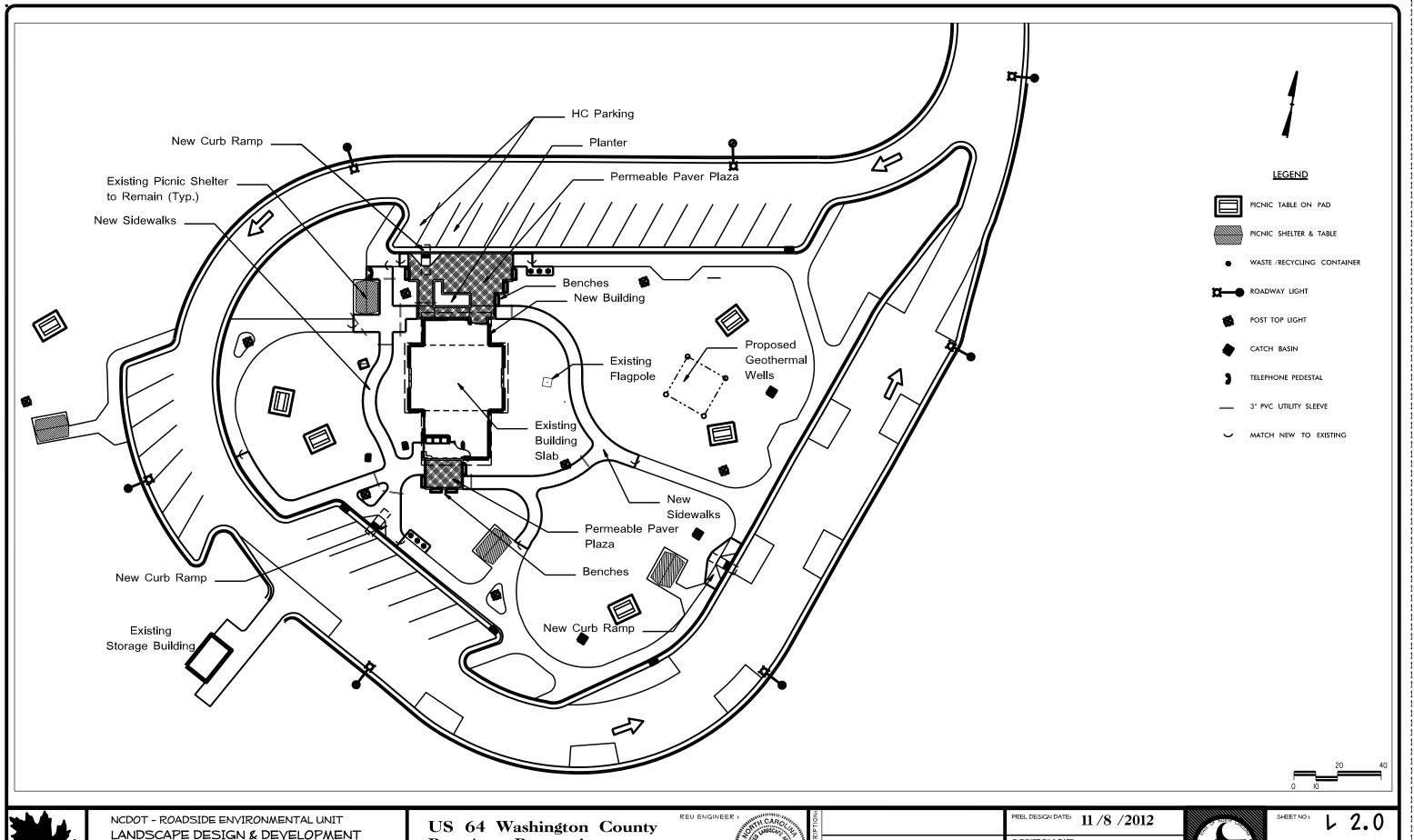
REVISIONS

DATE	DESCRIPTION

2004 American Standard for Nursery Stock

2012 NCDOT STANDARD SPECIFICATIONS

NCDOT- ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920





LANDSCAPE DESIGN & DEVELOPMENT

1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557 PH: 919-707-2920 FAX: 919-715-2554

HTTP://www.ncdot.org/doh/operations/dp chief eng/roadside/

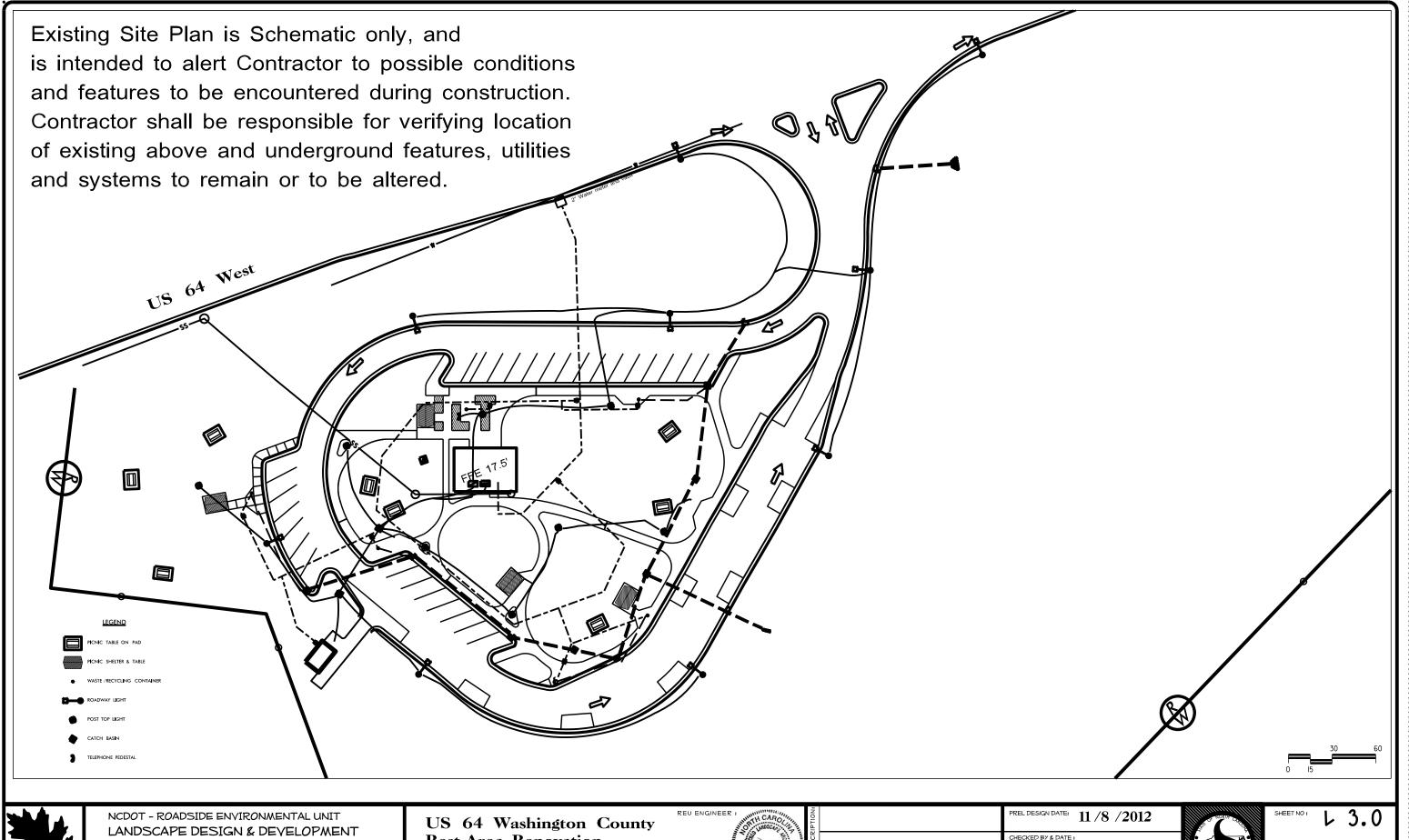
Rest Area Renovation W06 • • 41532.3.1



CHECKED BY & DATE:

FINAL DESIGN DATE: 12 /18 /2012 Proposed Site Plan







1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557 PH: 919-707-2920 FAX: 919-715-2554

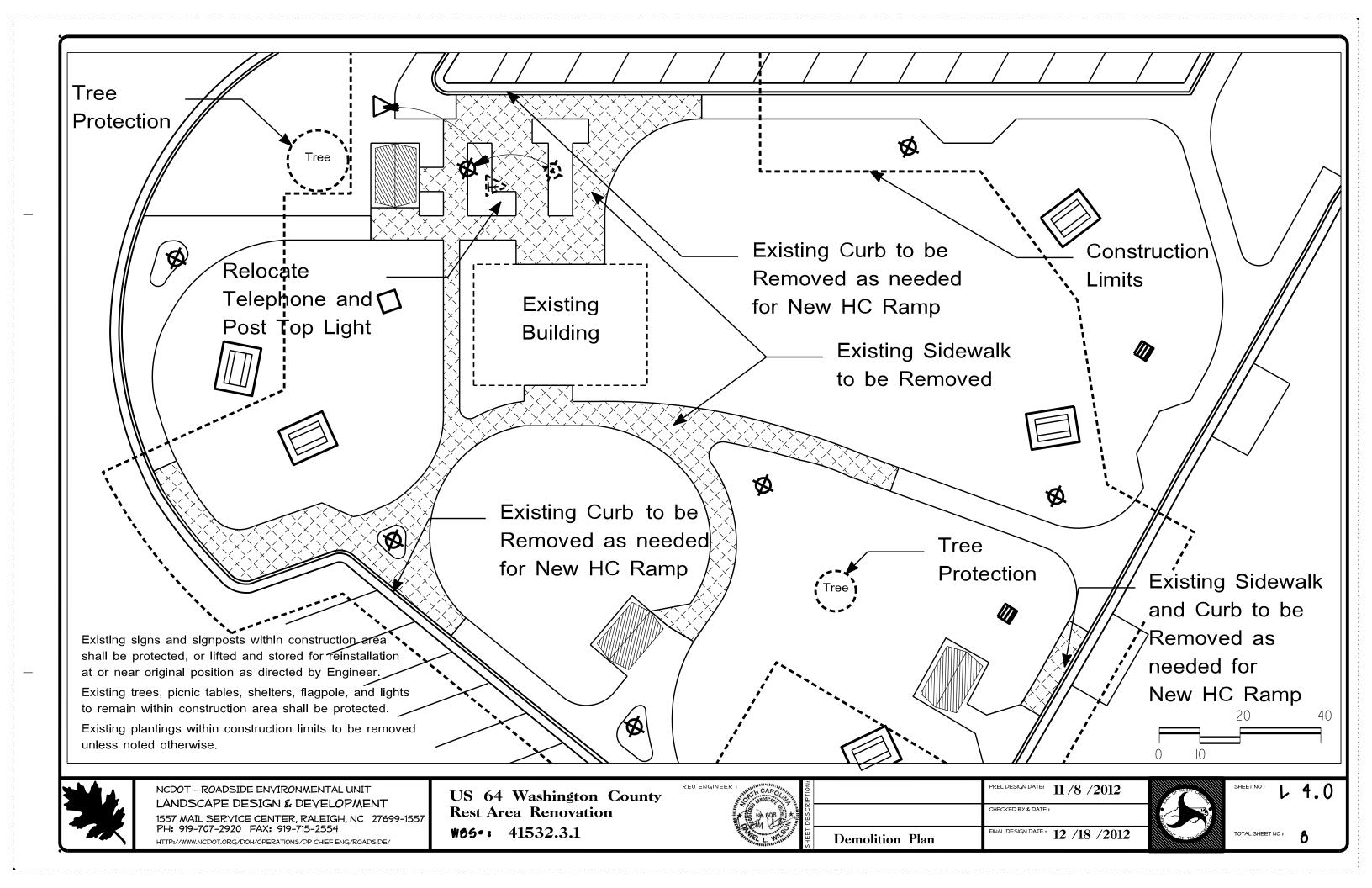
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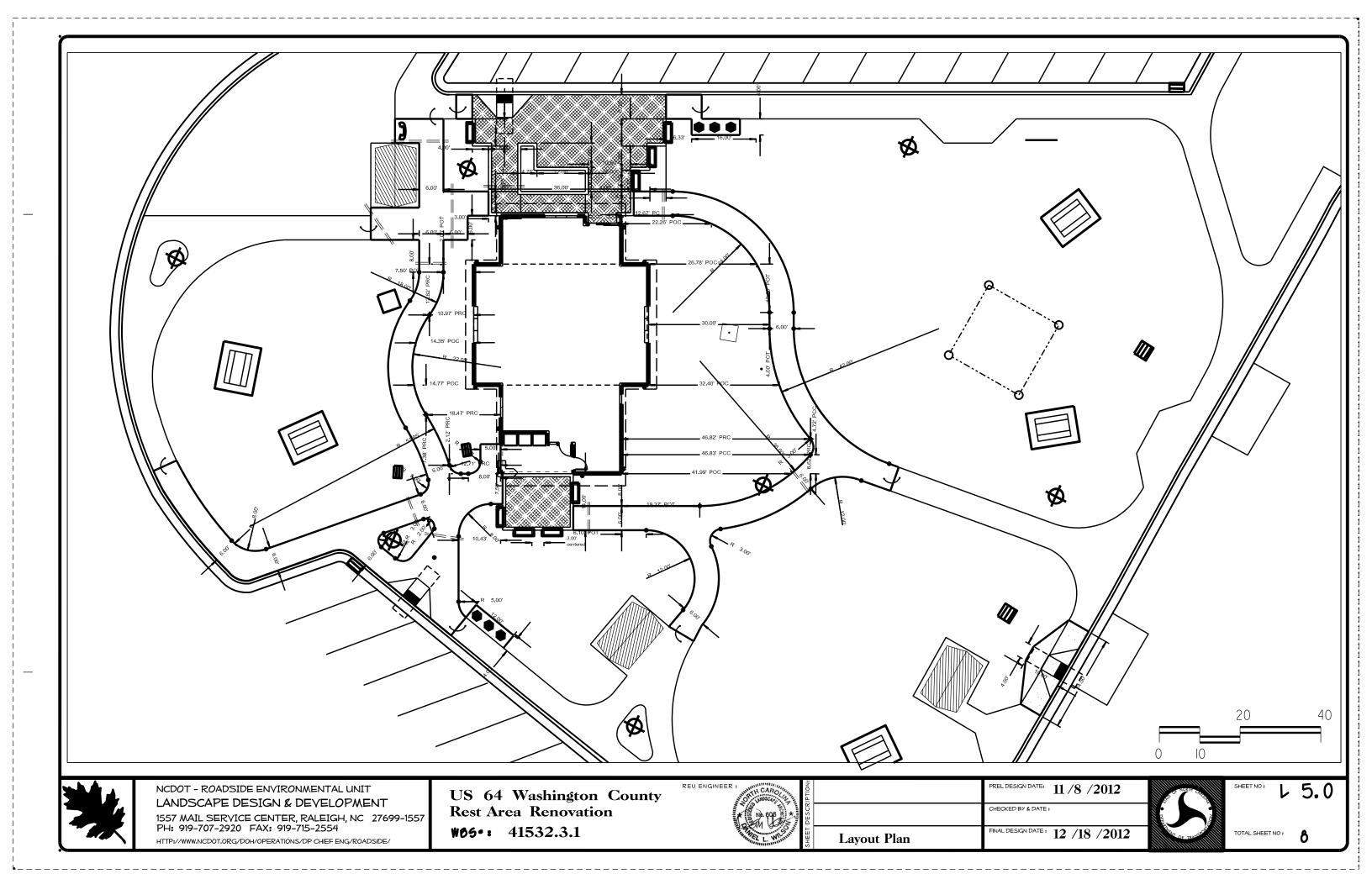
Rest Area Renovation W06 • • 41532.3.1

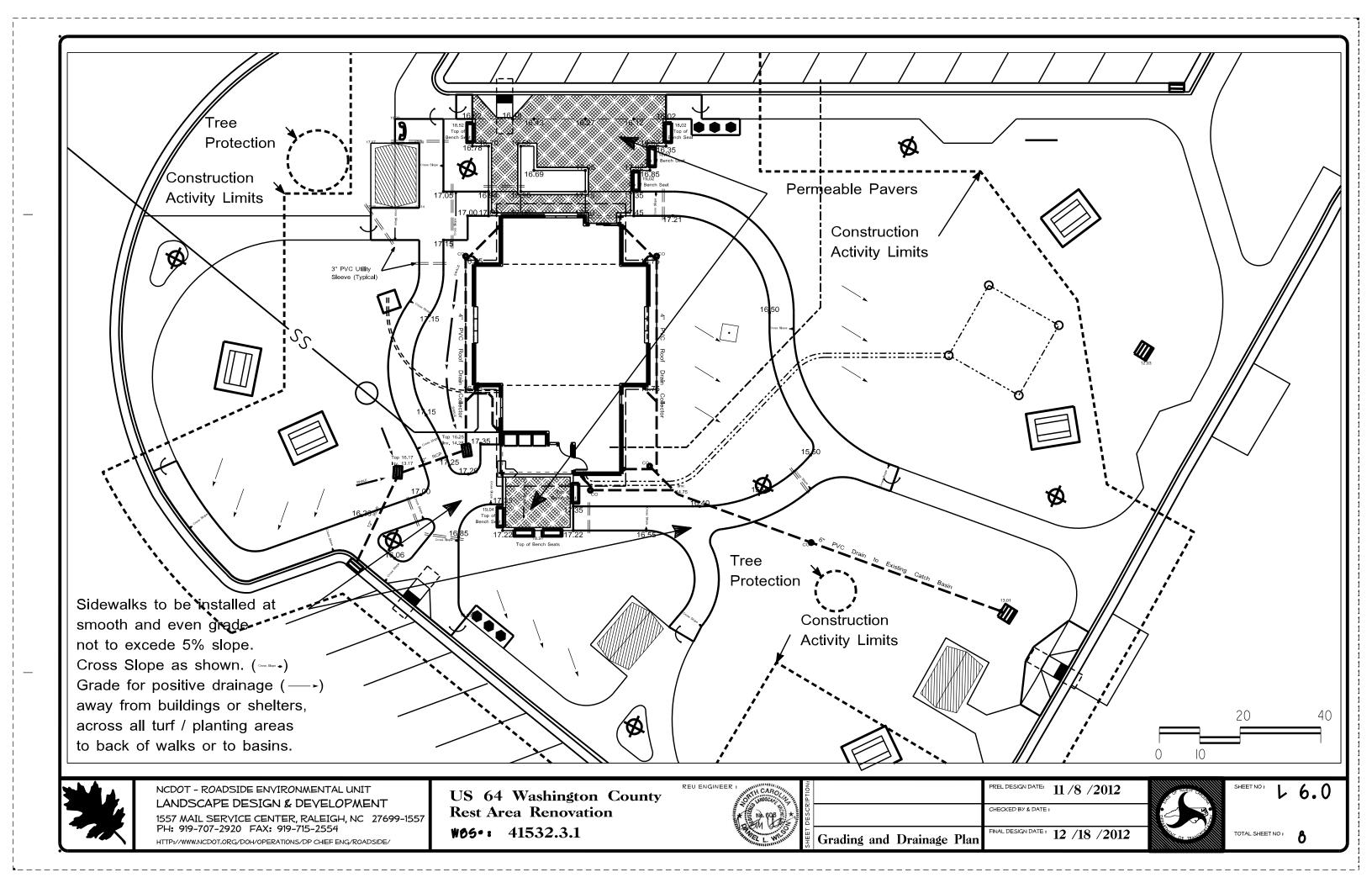


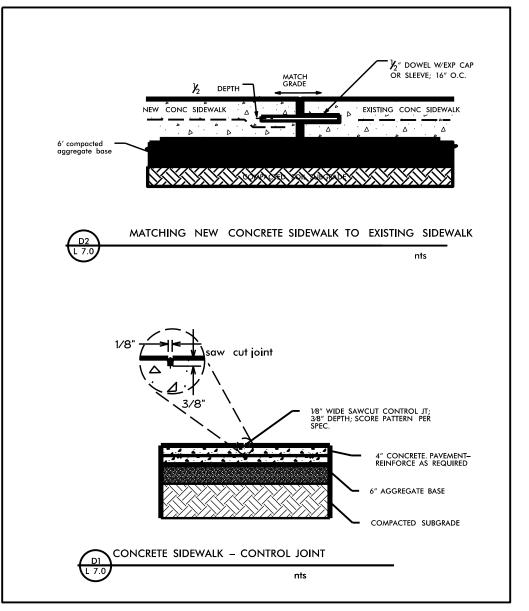
FINAL DESIGN DATE: 12/18/2012**Existing Site Plan**





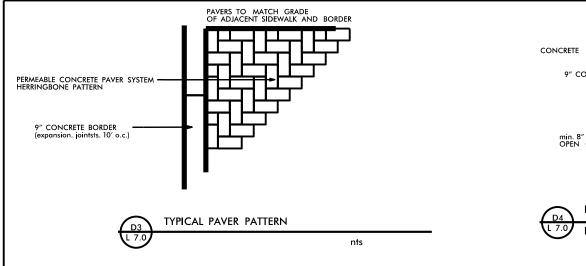


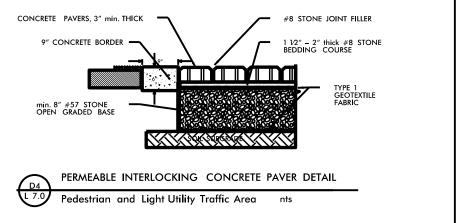


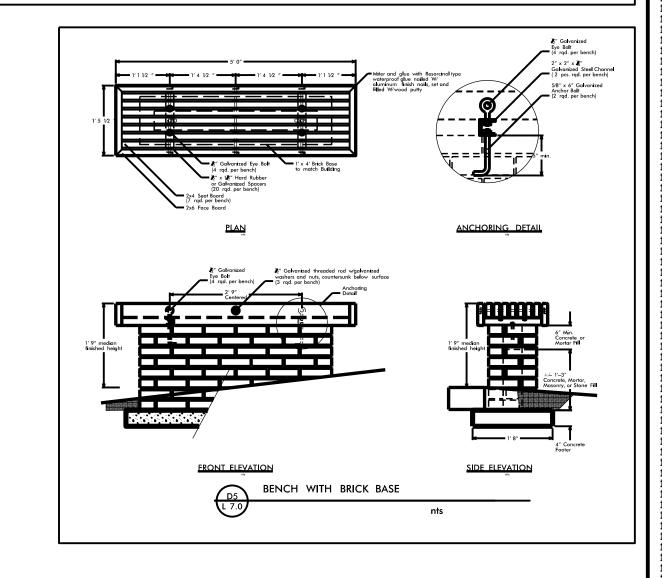


GENERAL NOTES:

- 1) Standard 4" THICK CONCRETE SIDEWALK to be installed as noted on plans; Control joint every 5' (or same dimension as sidewalk width) and Expansion joint every 30' (and where the sidewalk adjoins another hard surface).
- 2) CONCRETE PAVER BORDER as shown on plans:
 - 9" cast in place curb or
 metal restraint as spec'd.
- 3) Paver pattern, color, and dimensions as defined in plans, details, or specifications.
- 4) All hardscape surfaces shall be graded properly to drain to landscape areas, curbs, or drop inlets.
- 5) Where permeable pavers are installed, complete control of construction practices are vital. No debri, soil, or unspecified material shall come in to contact (or be layed upon) the completed surface or compromise installed drainage layers.







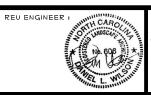


NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557 PH: 919-707-2920 FAX: 919-715-2554

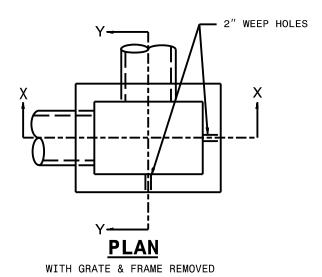
HTTP://www.ncDot.org/Doh/operations/DP CHIEF ENG/ROADSIDE/

US 64 Washington County **Rest Area Renovation W06** • • 41532.3.1



CHECKED BY & DATE : Sidewalk, Paver and Bench Details FINAL DESIGN DATE: 12/18/2012

PREL DESIGN DATE: 11/8/2012



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR $\,\,2''$ KEYWAY OR #4 BAR DOWELS AT $\,12''$ CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

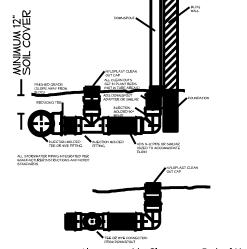
CONSTRUCT WITH PIPE CROWNS MATCHING.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

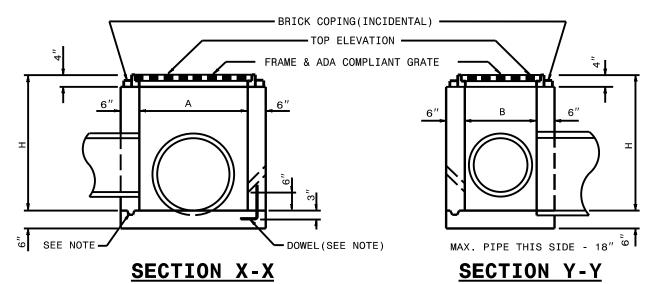
CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.

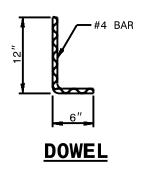


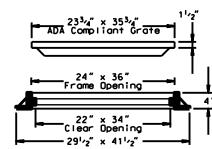
Alternate with Cleanout at End of Line

ROOF LEADER CONNECTION SCALE: NTS



DIME	DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)									
DIME	NSIONS	OF BOX	& PIPE	C	CUBIC YARDS DEDUCTION					
PIPE	SPAN	WIDTH	MIN. HEIGHT	С	ONC. IN B	0X	ONE	ONE PIPE		
D	А	В	Н	BOTTOM SLAB	CONSILIE			R.C.		
12"	3'-0"	2'-0"	2'-0"	0.222	0.222 0.222		0.015	0.026		
15"	/	•	2'-3"	•		0.648	0.023	0.036		
18"			2'-6"			0.703	0.033	0.049		
24"			3'-0"			0.814	0.059	0.085		
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127		





FRAME & ADA COMPLIANT GRATE

Examples: East Jordan Iron Works, Inc. V-5660*

U.S. Foundry & Mfg. Corp. 4139 Frame & 6002 Grate



NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

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US 64 Washington County Rest Area Renovation **W06**•• 41532.3.1



Roof Leader Connection	PREL DESIGN DATE: $11/8/2012$
on Deader Goineeron	CHECKED BY & DATE:
Concrete Drop Inlet	
EET.	FINAL DESIGN DATE: 12 /18 /2012



し 8.0

GENERAL DEMOLITION / CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL REVIEW EXISTING FIELD CONDITIONS AND REPORT ANY DISCREPANCIES BETWEEN CONDITIONS AND THE DRAWINGS TO THE ARCHITECT. LOCATE ALL UNDERGROUND
- 2. CONTRACTOR SHALL REMOVE THOSE ITEMS OF DEMOLITION IN ITS ENTIRETY INCLUDING HANGERS AND CONNECTIONS TO REMAINING CONSTRUCTION. AFTER REMOVAL, PATCH & REPAIR EXPOSED SURFACES \$ FINISH SURFACE TO MATCH EXISTING ADJACENT SURFACES.
- 3. CONTRACTOR SHALL "TOOTH IN" ALL BRICK AND CMU CONNECTIONS AND IN-FILLS. CONTRACTOR SHALL USE MATCHING MASONRY COMPONENTS OF SIZE & TEXTURE.
- 4. THOSE REMAINING WALLS ADJACENT TO DEMOLITION ARE TO BE SMOOTHED OR THE SHELL WALL CUT OUT AND REPLACE IN THE AREA OF ORIGINAL INTERSECTION.
- 5. REMOVE MASONRY WALL SECTIONS DOWN TO EXISTING FLOOR SLAB OR TO 8" BELOW FLOOR SLAB & REPAIR FLOOR SLAB.
- 6. RELOCATE ANY INTERRUPTED MISCELLANEOUS WALL & CEILING DEVICES NOT SHOWN ON PLAN TO THE NEAREST REMAINING AREA U.O.N.
- 7. REPAINT ENTIRE WALL TO MATCH EXISTING WHERE DEMOLITION HAS OCCURRED \$ WALL HAS BEEN PATCHED / REPAIRED.
- 8. NEW WALL FINISH SHALL MATCH NEW ADDITION FINISHES IN SIZE, SHAPE, PATTERN AND
- 9. CONTRACTOR SHALL VERIFY WITH USER / REPRESENTATIVE THOSE ITEMS TO REMOVE \$ TURN OVER TO THE OWNER PRIOR TO ANY DEMOLITION. LEGALLY DISPOSE OF ALL
- 10. CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH OTHER TRADES, PLUMBING, MECHANICAL & ELECTRICAL.
- 11. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING TO INSURE STRUCTURAL INTEGRITY PRIOR TO DEMOLITION WORK FOR OPENINGS OF NEW DOORS AND WINDOWS.
- 12. CONTRACTOR TO REMOVE ALL FINISHED MATERIALS ON THE INTERIOR OF EXTERIOR WALLS U.O.N. SEE DEMOLITION KEY NOTES FOR FURTHER DESCRIPTION.

DEMOLITION KEY NOTES

- CONTRACTOR TO REMOVE ENTIRE EXISTING ROOF STRUCTURE DOWN TO TOP PLATE
- CONTRACTOR TO REMOVE INDICATED EXISTING WALLS DOWN TO FINISHED FLOOR
- CONTRACTOR TO REMOVE PART OF EXISTING WALL OUTSIDE OF INDICATED PORTION TO REMAIN DOWN TO FINISHED FLOOR
- CONTACTOR TO REMOVE BRICK VENEER FROM THE INDICATED EXISTING WALLS
- CONTRACTOR TO REMOVE INDICATED EXISTING WALLS DOWN TO FINISHED FLOOR. REMOVE EXISTING DOORS AND FRAMES AND TURN OVER TO OWNER.
- CONTRACTOR TO REMOVE EXISTING TOILET **PARTITIONS**
- CONTRACTOR TO REMOVE EXISTING WINDOWS IN RESTROOMS W/FRAME AND SILL, PATCH & REPAIR OPENINGS TO PREPARE FOR NEW WINDOWS INSTALLATION (SEE WINDOW SCHEDULE).
- CONTRACTOR TO REMOVE ALL FINISHED MATERIAL FROM INTERIOR WALLS BACK TO STUD.
- CONTRACTOR TO REMOVE EXISTING FLOOR TILE, \$
- CONTRACTOR TO REMOVE 4X6 WOOD POSTS.
- CONTRACTOR TO REMOVE ALL TOILETS AND ONE URINAL, LOCATED NEXT TO A TOILET. ALL LAVATORIES \$ TWO OTHER URINALS ARE TO BE REMOVED, STORED & RE-INSTALLED AFTER RE-FINISHING IS COMPLETED.
- EXISTING WATER HEATER TO BE REMOVED.

- 3" WATER SERVICE TO REMAIN. SEE PLUMBING PLANS FOR NEW WORK.
- EXISTING SITE LIGHTING TROUGH TO BE RELOCATED. SEE ELECTRICAL PLANS FOR NEW LOCATION.
- REMOVE EXISTING ELECTRICAL PANEL \$ METER BASE, REMOVE CONDUIT & SERVICE CONDUCTORS BACK TO TRANSFORMER. COORDINATE WORK WITH LOCAL POWER COMPANY.
- TELEPHONE PEDESTAL TO REMAIN. PROVIDE NEW 2" CONDUIT TO NEW MTP LOCATION.
- REMOVE EXISTING SPLIT SYSTEM HEAT PUMP SYSTEM IN ITS ENTIRETY.
- REMOVE EXISTING EWC AND TURN OVER TO OWNER FOR FUTURE USE.
 - EXISTING FLOOR DRAIN TO REMAIN. MAINTAIN WASTE & VENT PIPING.
 - EXISTING FLOOR DRAIN TO BE REMOVED. REMOVE DRAIN LINE BACK TO MAIN SO AS NOT TO CREATE A DEAD END.

DESIGN

Washington County L Rest Area/ Visitor Ce 1248 US-64 EAST, PLYMOUTH, NC 279

TIP PROJ. NO. K-5000 WBS NO. 41532.3.1 CONTRACT ID NO. FEDERAL ID NO. NHS-0064(158) REVISIONS NO. DATE

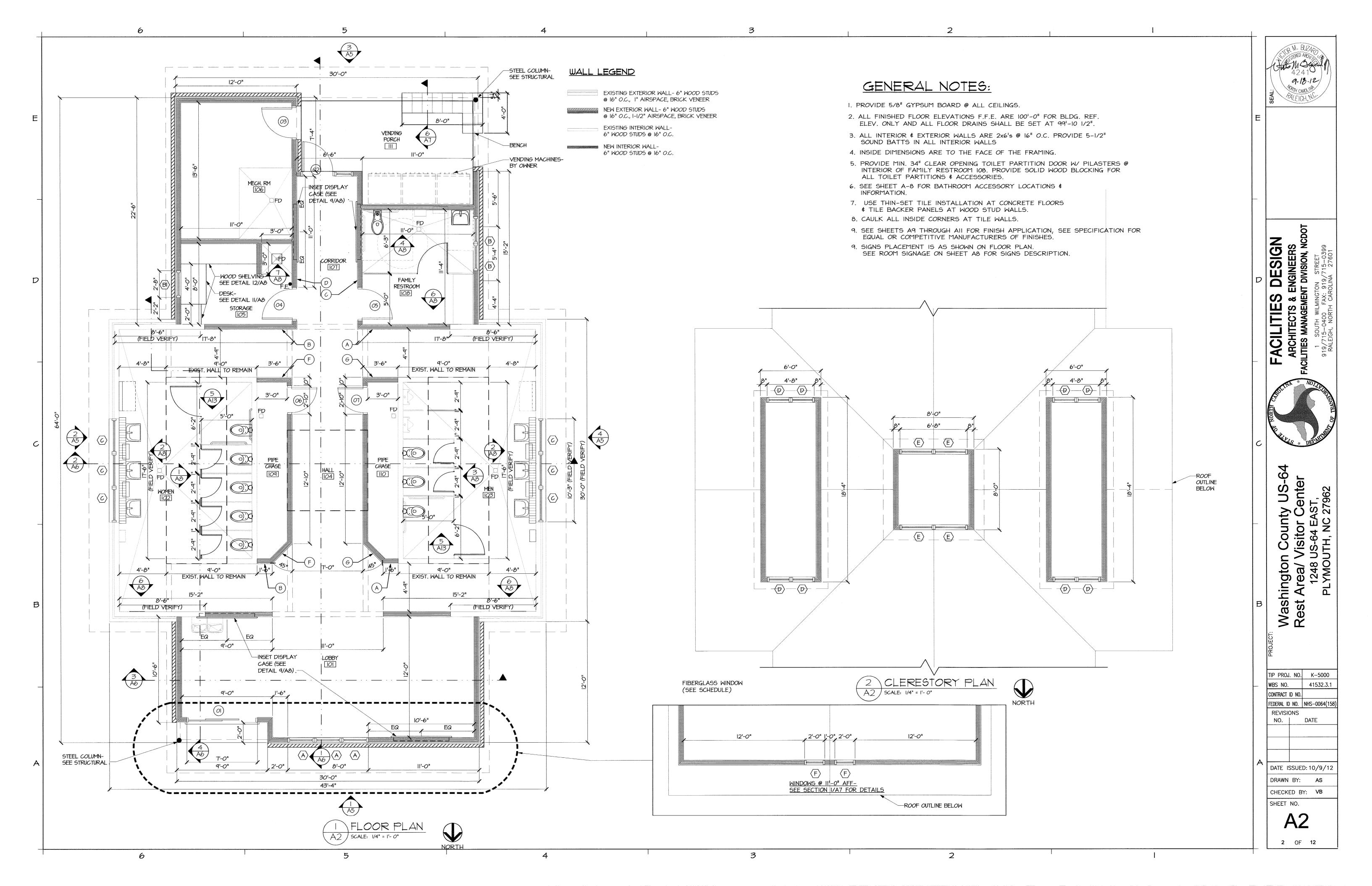
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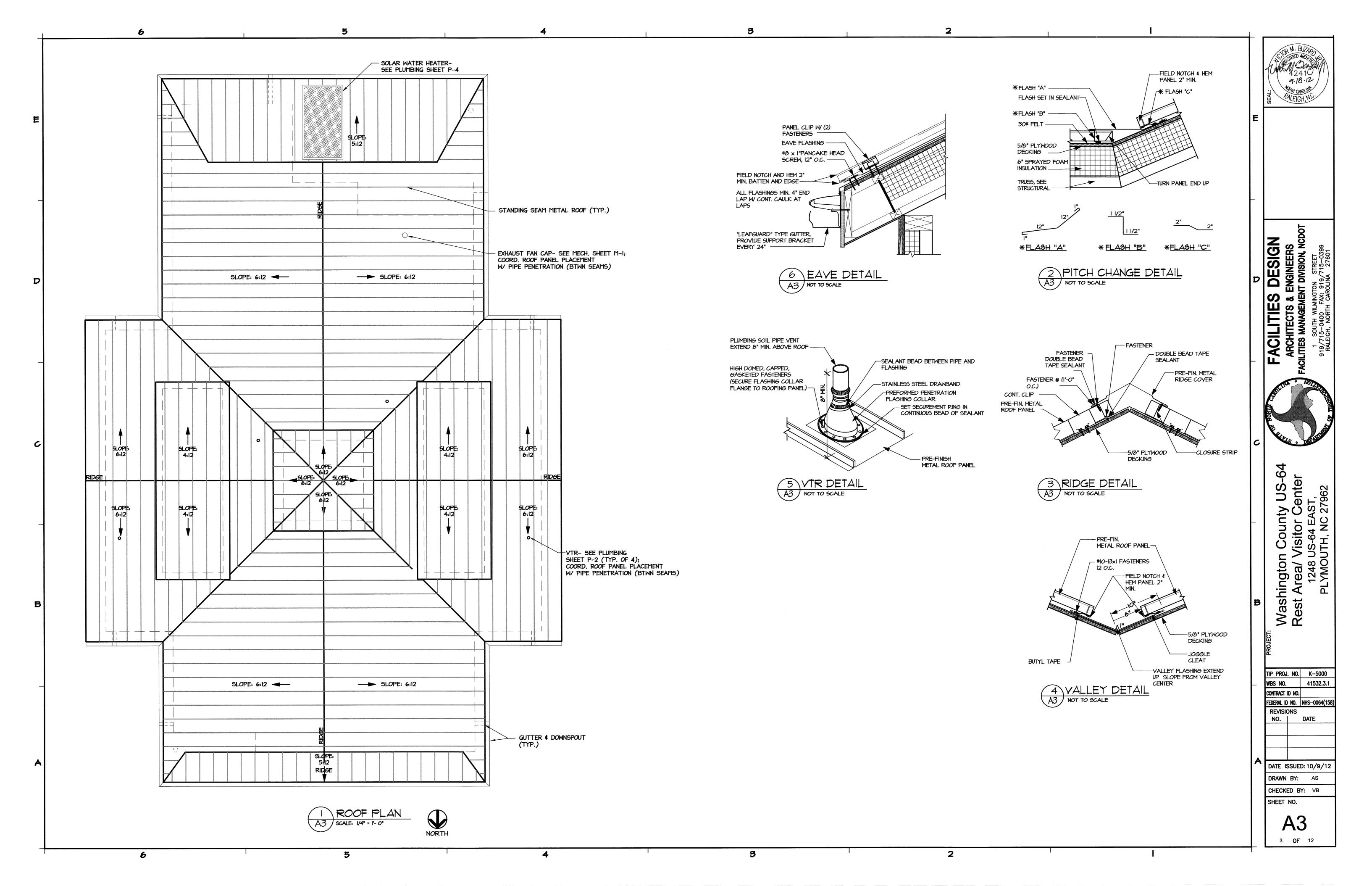
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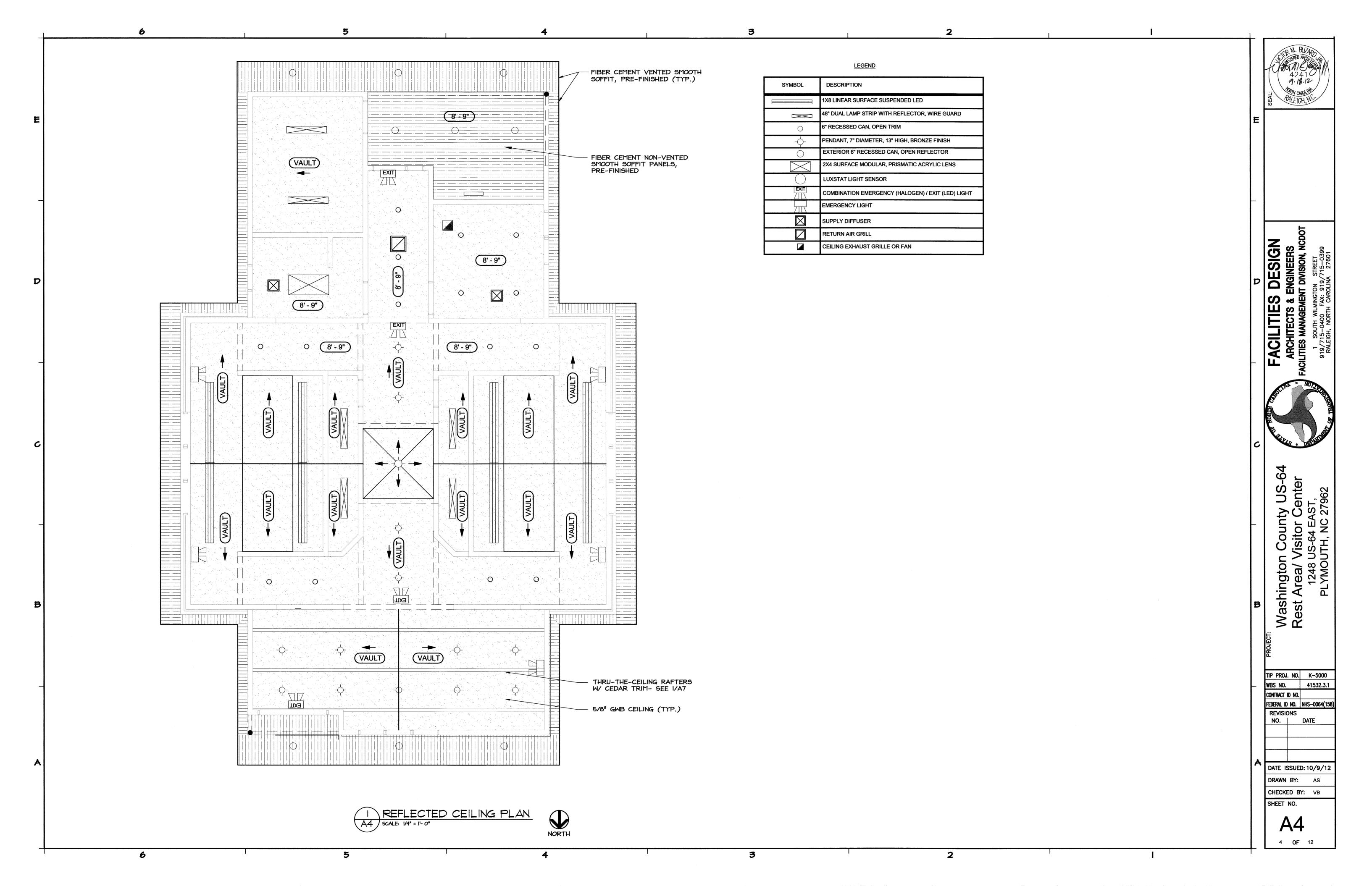
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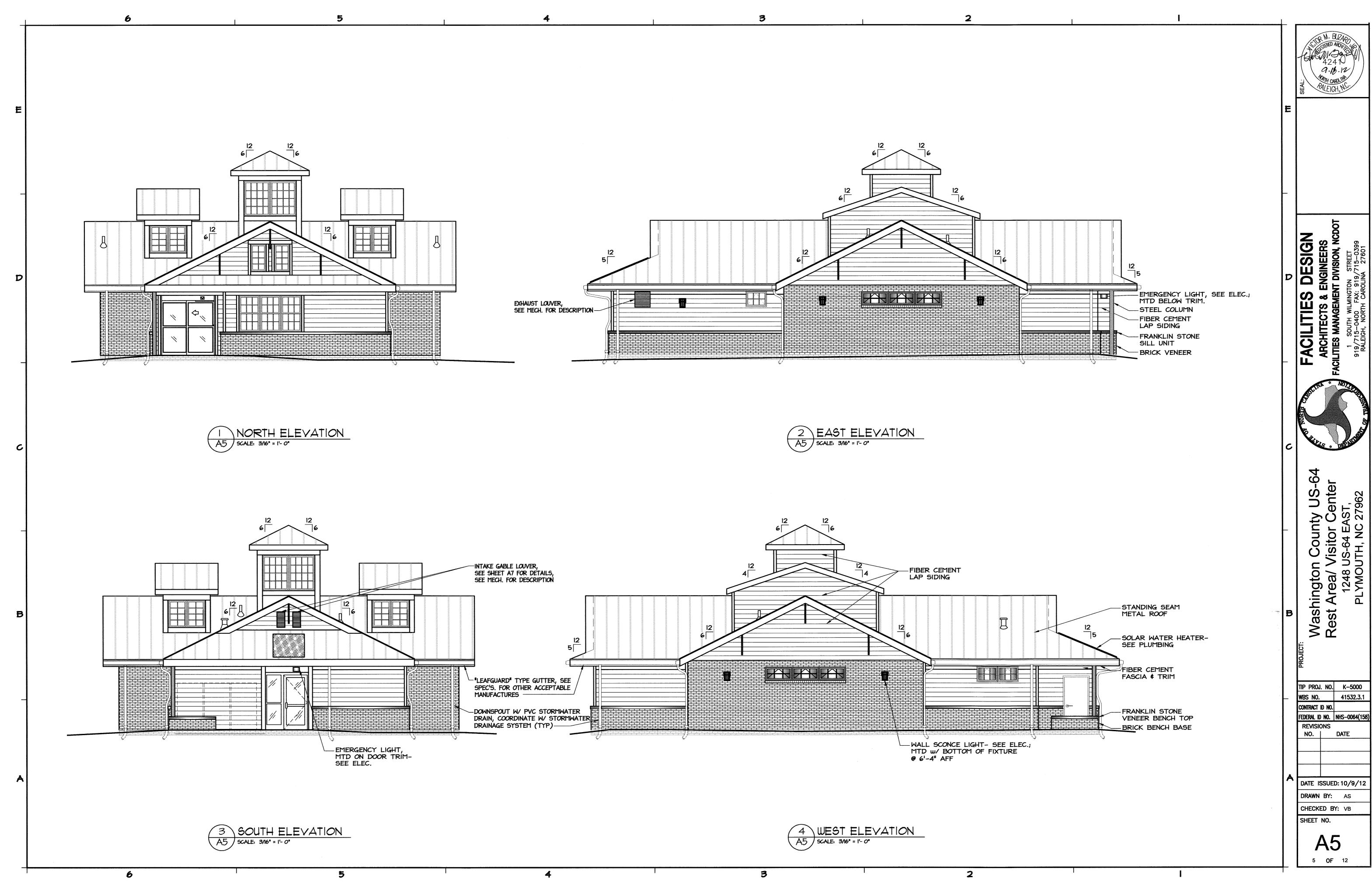
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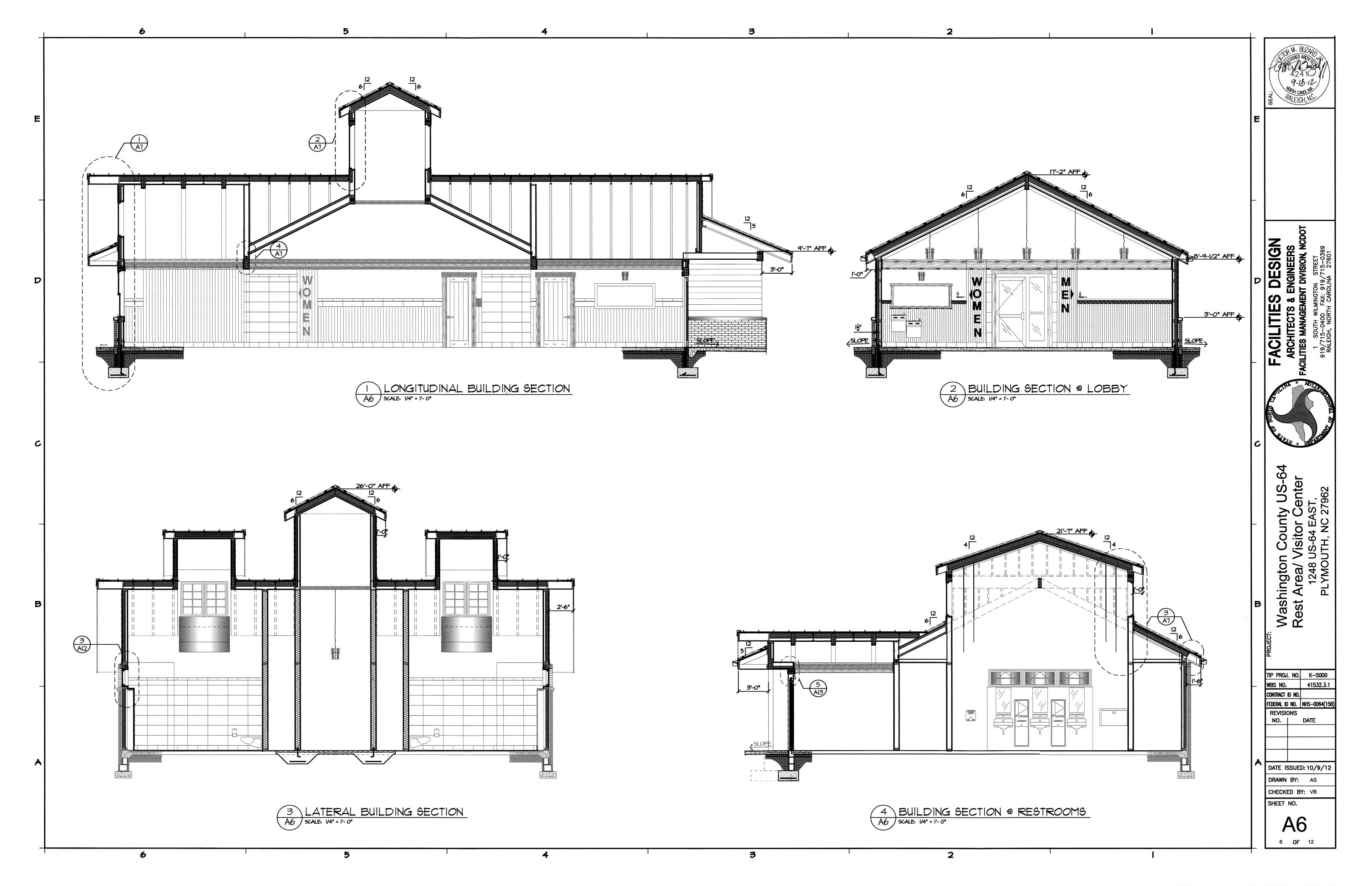
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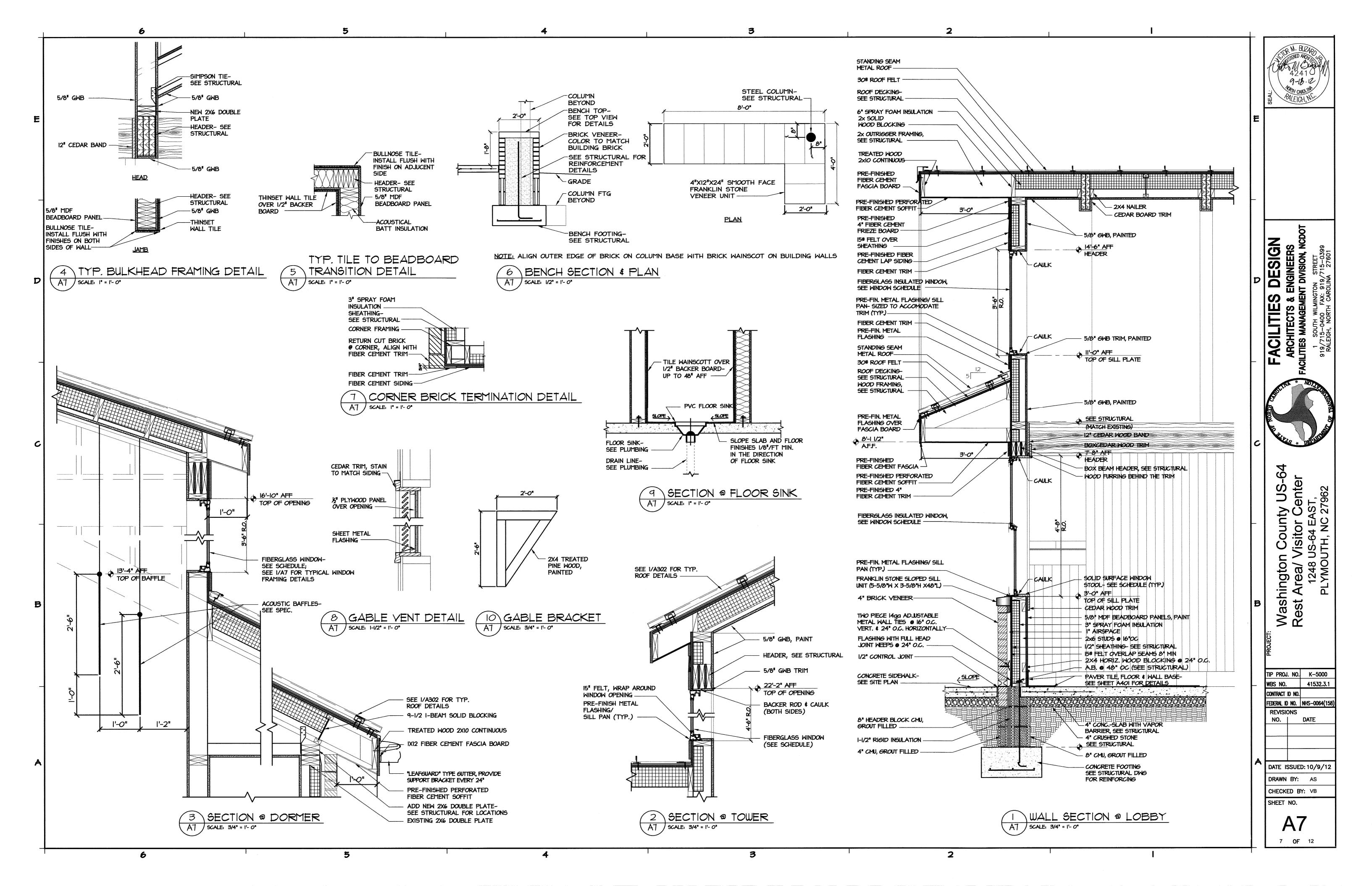


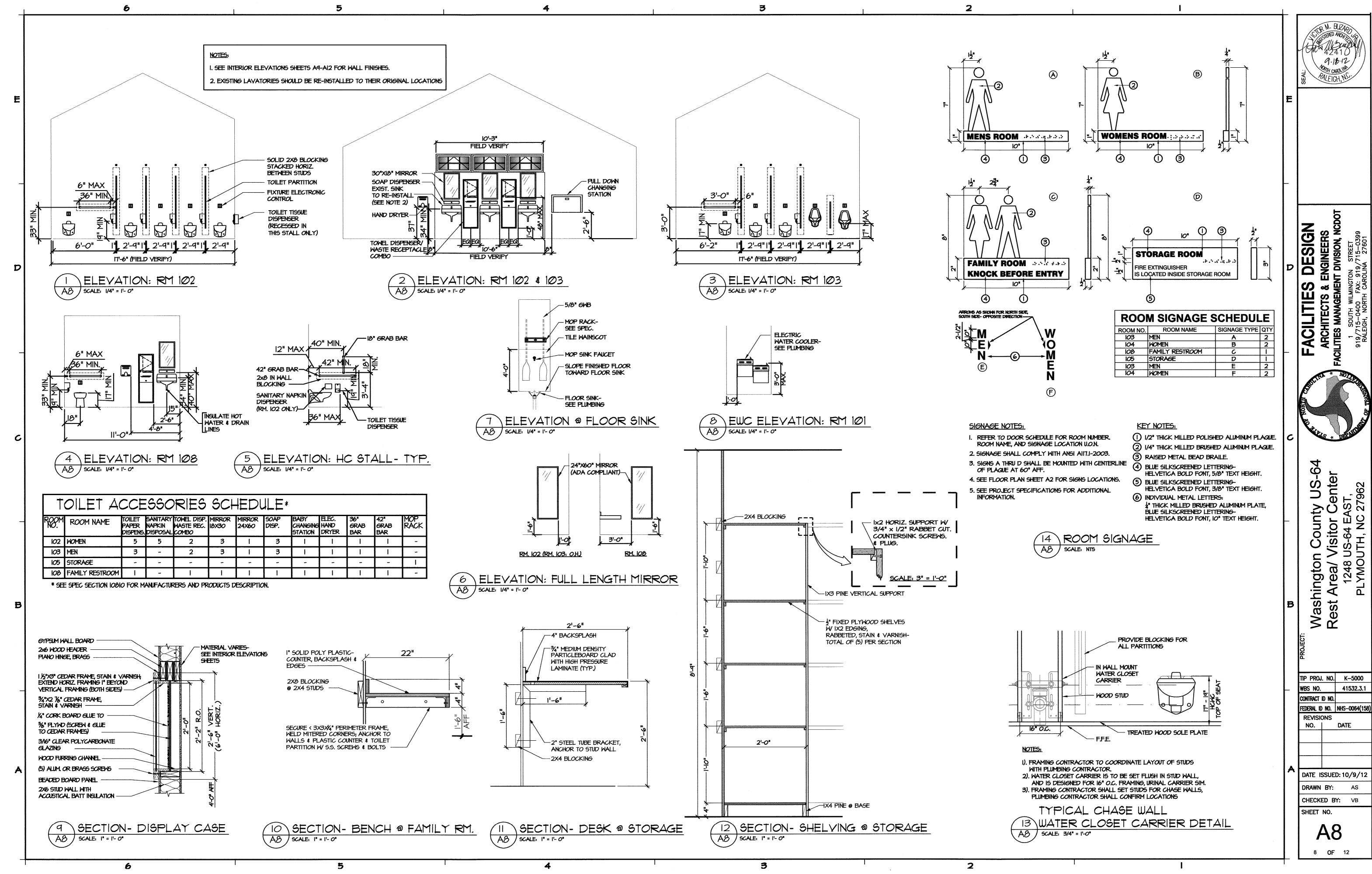


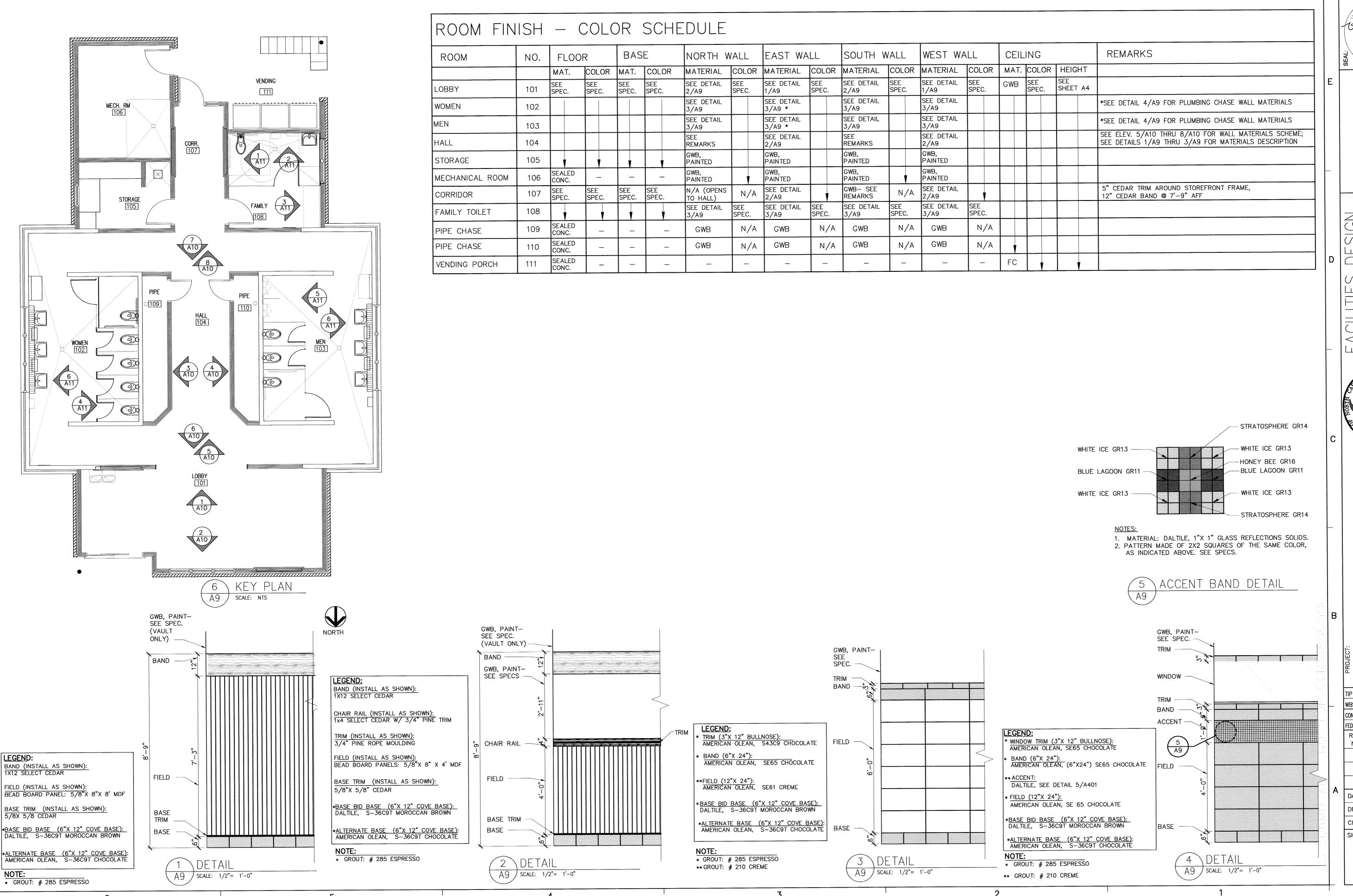












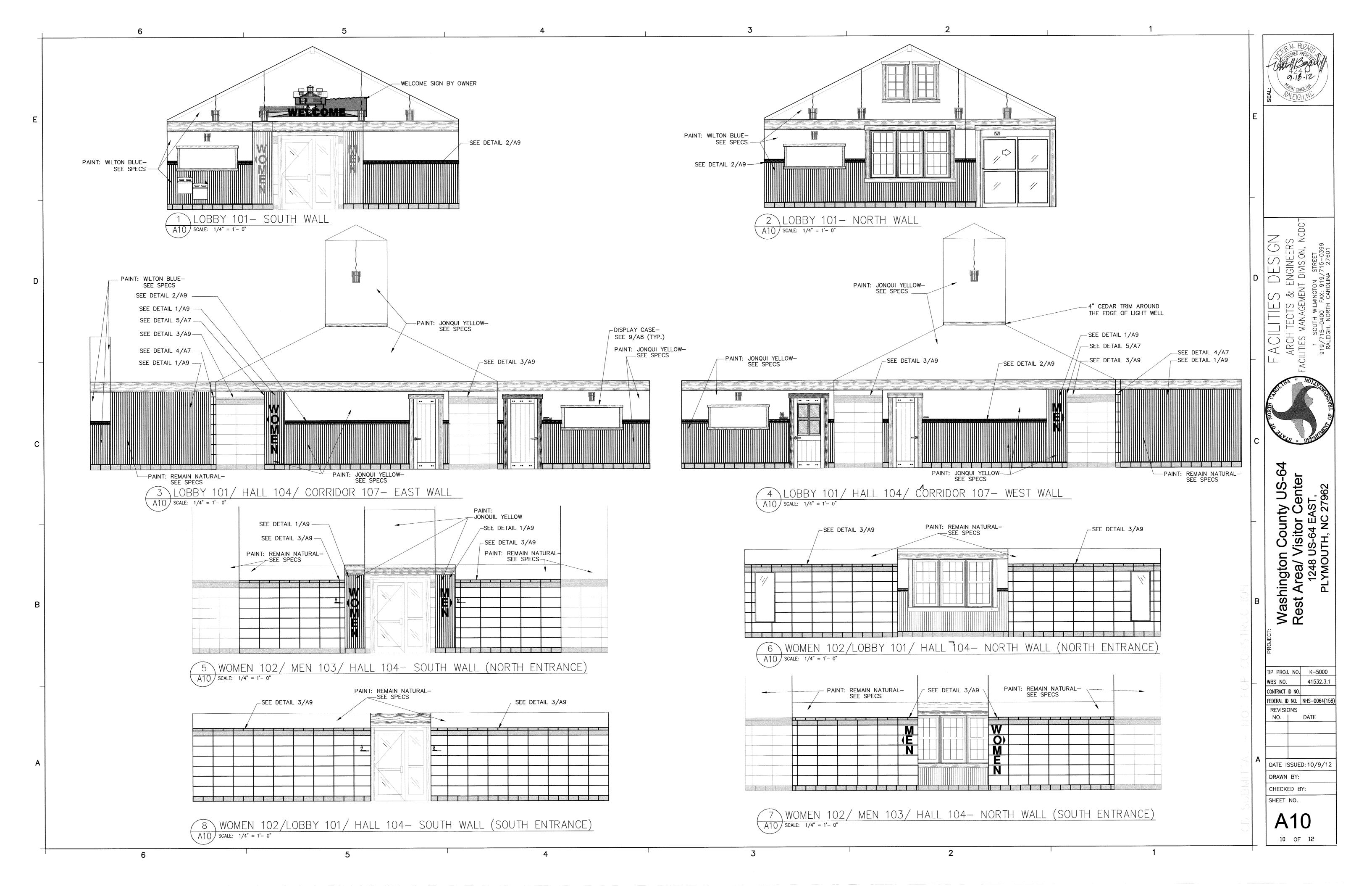
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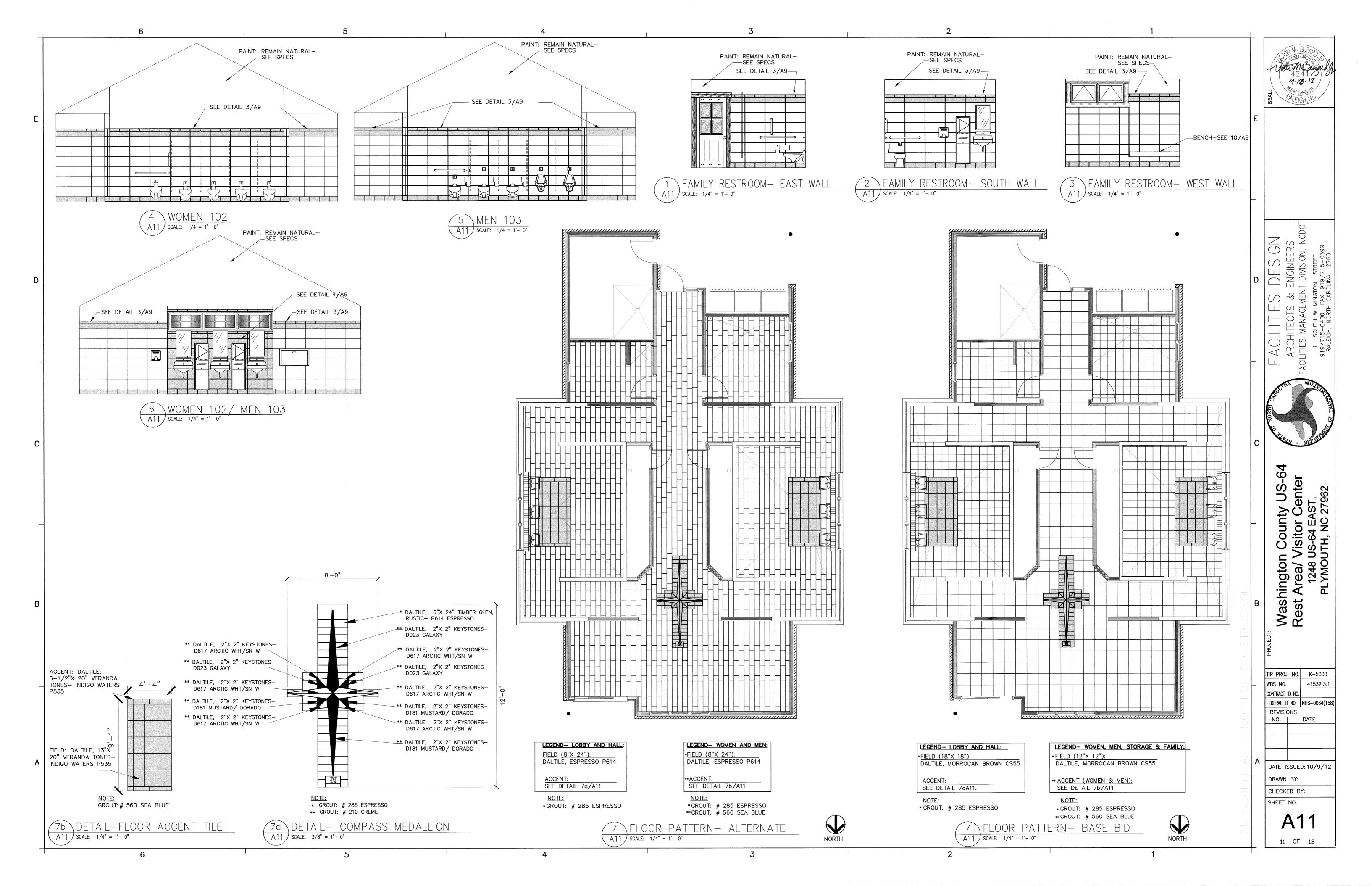
TIP PROJ. NO. K-5000 41532.3.1 WBS NO. CONTRACT ID NO. Federal Id No. | NHS-0064(158) REVISIONS NO. DATE

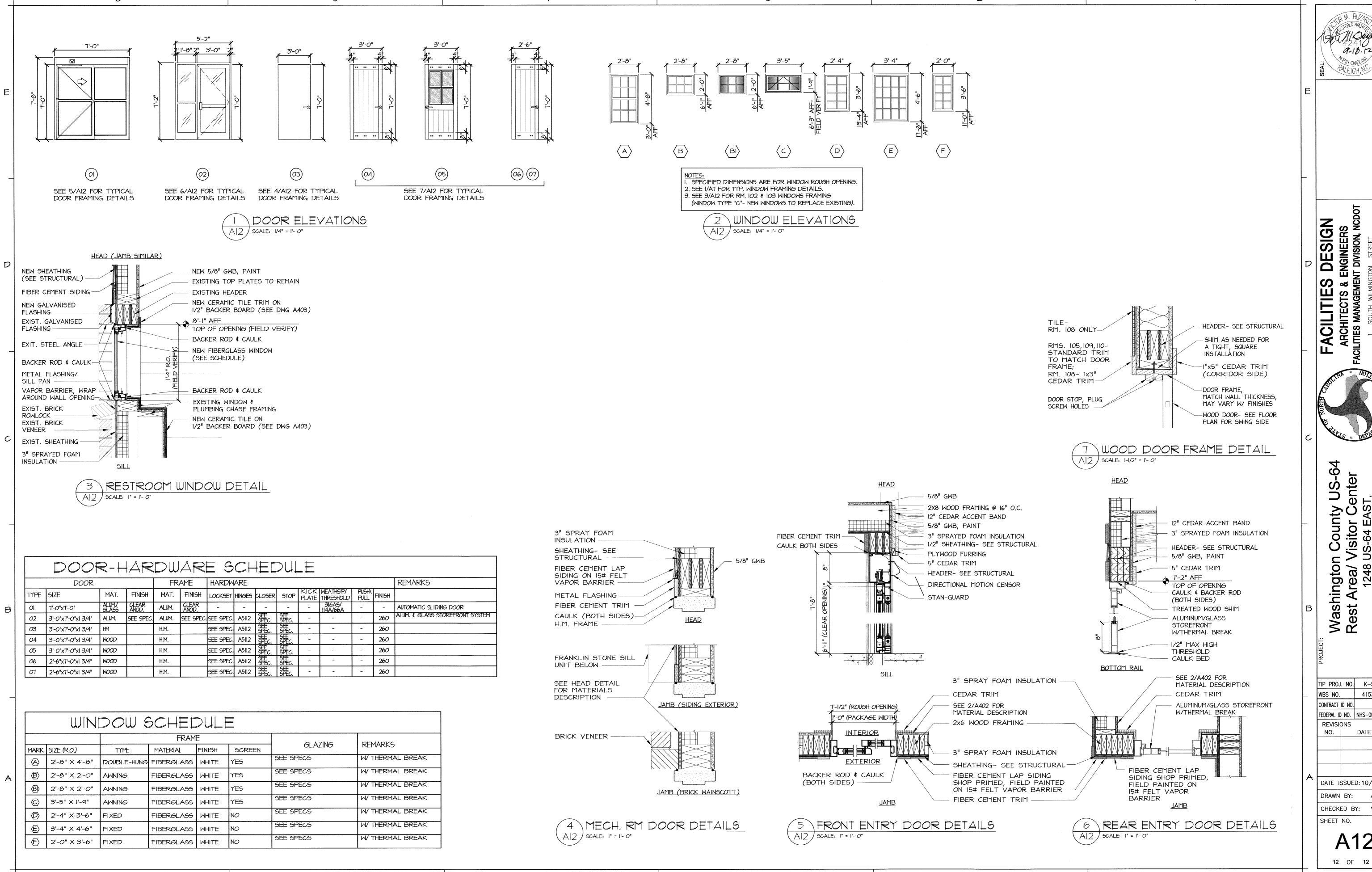
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9 OF 12







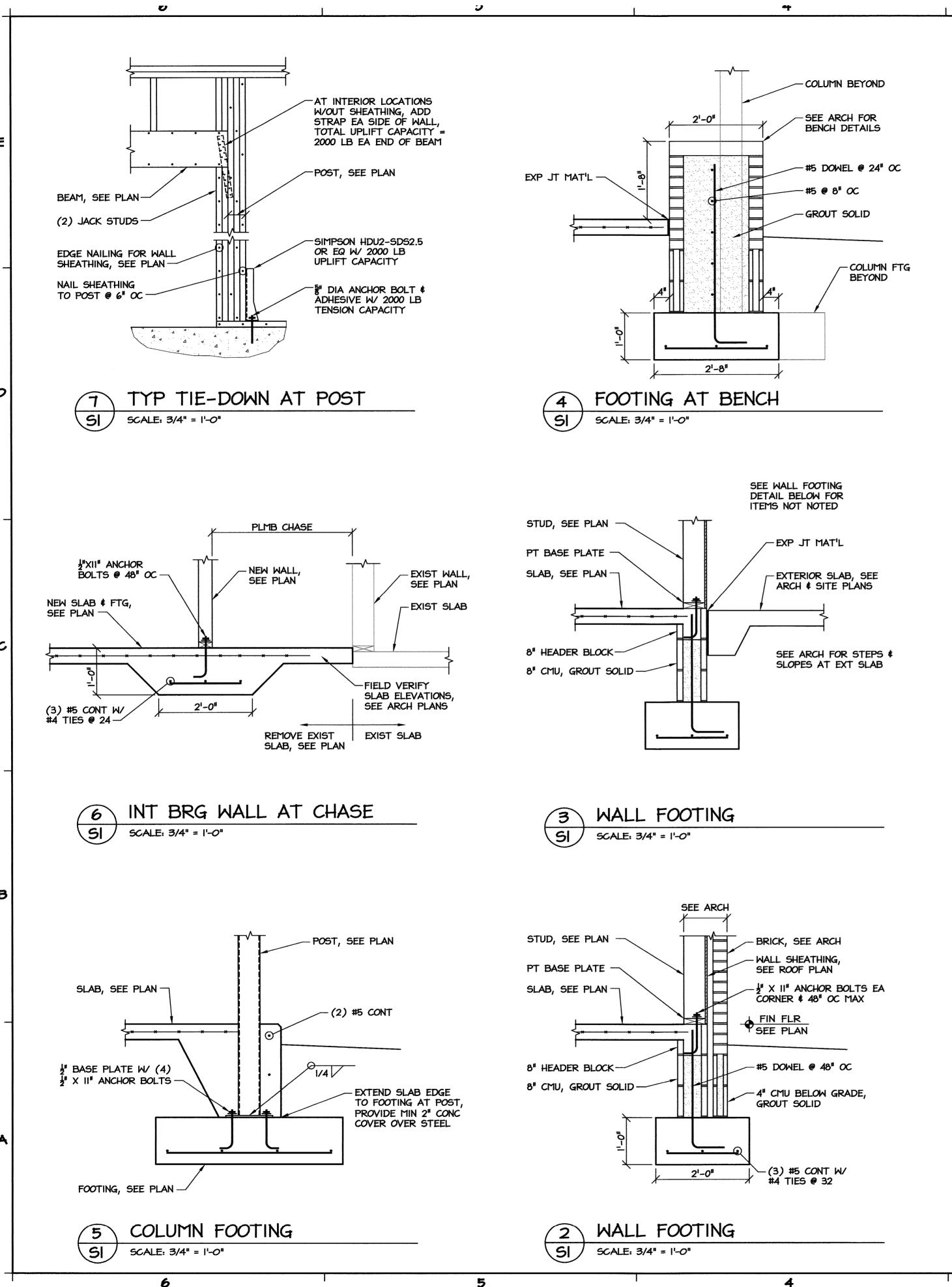
Washington County L Rest Area/ Visitor Ce 1248 US-64 EAST PLYMOUTH, NC 279

TIP PROJ. NO. K-5000 41532.3.1 FEDERAL ID NO. NHS-0064(158)

DATE ISSUED: 10/9/12

CHECKED BY: VB

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NOTES:

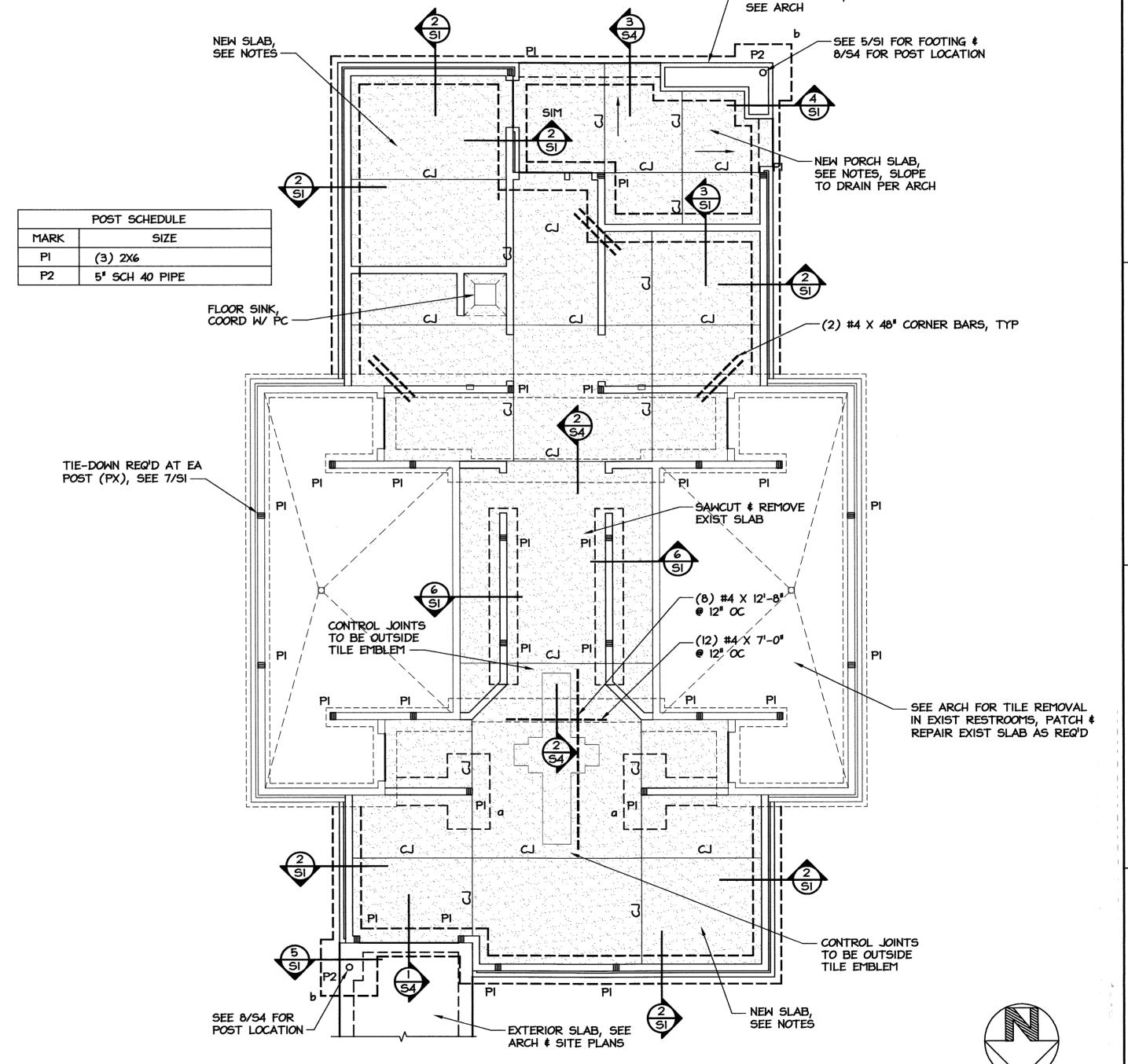
- 1. CONCRETE STRENGTH FOR FOOTINGS = 3000 PSI.
- 2. CONCRETE STRENGTH FOR SLABS = 4000 PSI.
- 3. FLOOR SLAB SHALL BE 4" CONC REINF W/ 6X6-WI.4XWI.4 WWR OVER VAPOR BARRIER ON 4" COMPACTED GRANULAR BASE CONTAINING LESS THAN 2% FINES.
- 4. VAPOR BARRIER NOT REQUIRED UNDER EXTERIOR SLABS.
- 5. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE ABOVE FIRST FINISH FLOOR, REF ELEVATION = $+0^{1}-0^{11}$.
- 6. SEE ARCH PLANS FOR FLOOR DIMENSIONS, DEPRESSIONS, \$ FINISHES NOT SHOWN. SEE ARCH OR SITE PLANS FOR EXTERIOR CONCRETE.
- 7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES PRIOR TO PLACING SLAB CONCRETE. SEE OTHER DRAWINGS FOR LOCATION OF EMBEDDED ITEMS.
- 8. TOP OF FOOTING = -1^1-4^1 BELOW FIN FLOOR, UON.
- 9. ALL REINFORCING STEEL SHALL BE GRADE 60. ALL LAP SPLICES SHALL BE 48 X BAR DIAMETER.
- 10. CJ DENOTES SLAB CONTROL JOINT. SEE DETAIL 11/54.
- II. SUBMIT SHOP DRAWINGS FOR ALL CONCRETE & MASONRY FASTENERS \$ FOR TRUSS TIE-DOWN CONNECTORS.
- 12. ALL POSTS (PX) SHALL BE CONTINUOUS FROM FLOOR TO TOP OF

FOOTING SCHEDULE									
MARK	SIZE	REINFORCEMENT							
а	3'-0" X 5'-4" X 12" THK SLAB	(5) #5 EW							
ь	4'-0" × 4'-0" × 12"	(4) #5 EW							

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

- MASONRY BENCH,





Washington Rest Area/ N 1248 L PLYMOU

TIP PROJ. NO. K-5000 WBS NO. 41532.3.1 CONTRACT ID NO. FEDERAL ID NO. NHS-0064(158)

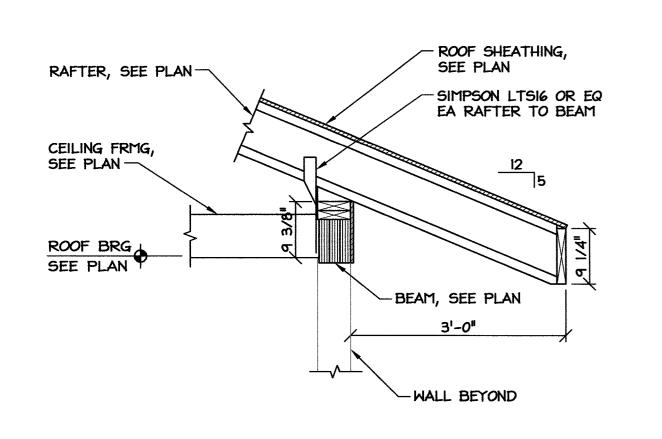
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DATE ISSUED: 10/09/12 DRAWN BY:

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1 OF 4

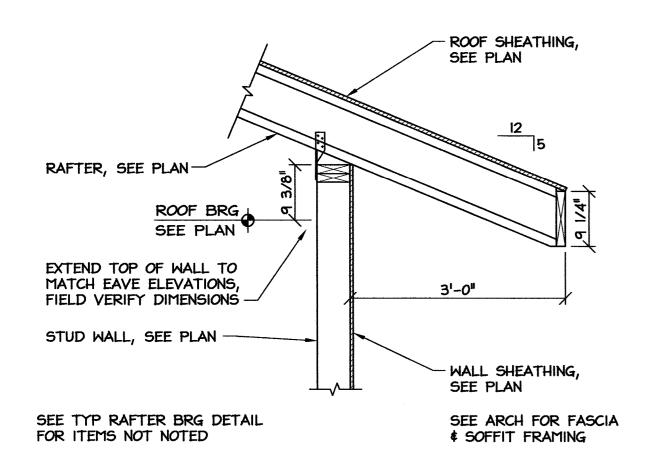
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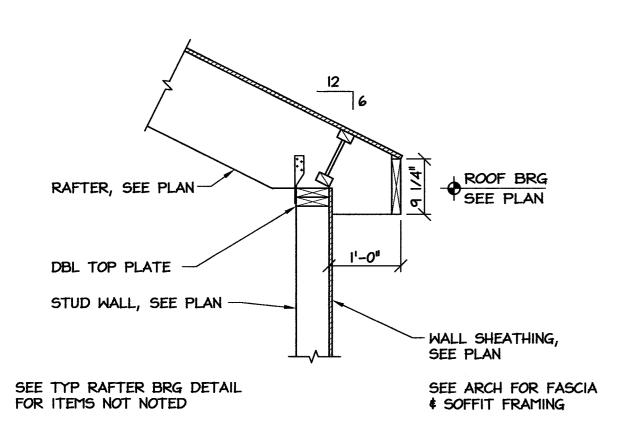
SEE TYP RAFTER BRG DETAIL FOR ITEMS NOT NOTED

SEE ARCH FOR FASCIA # SOFFIT FRAMING

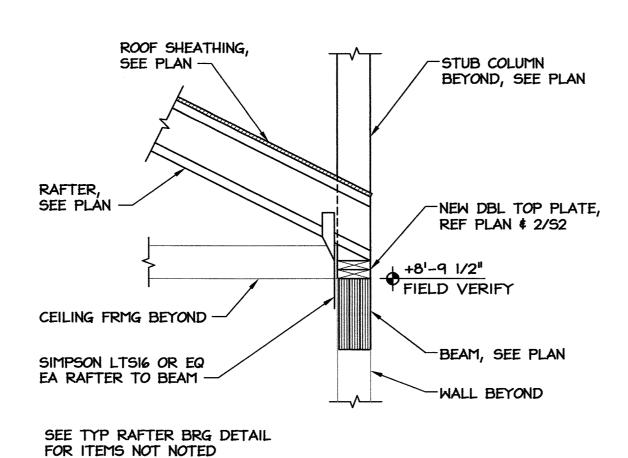
RAFTER BEARING AT HIP **S2** SCALE: 3/4" = 1'-0"



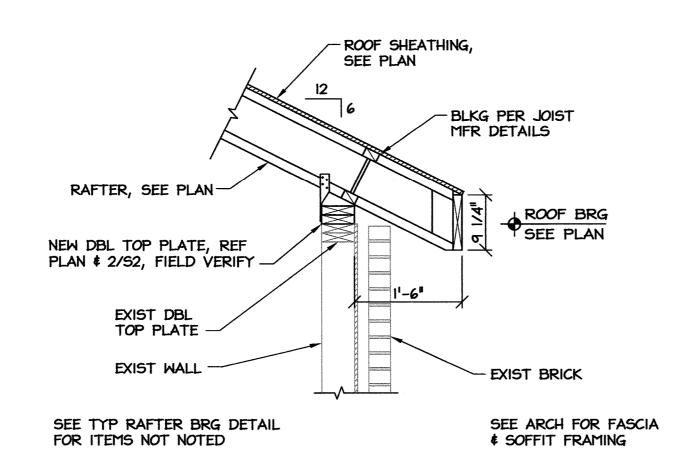
RAFTER BEARING AT HIP SCALE: 3/4" = 1'-0"



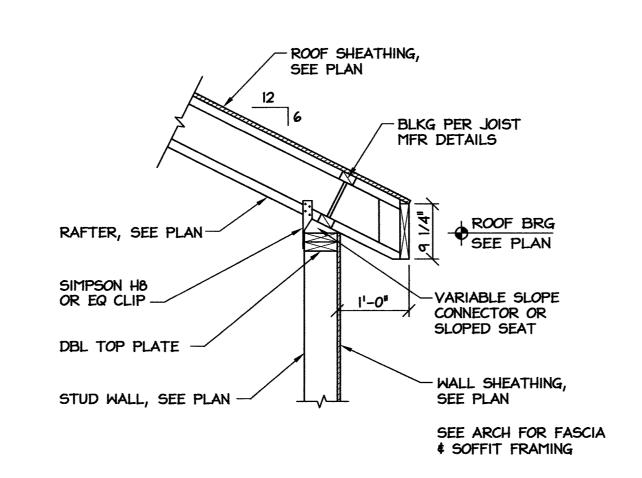
EXPOSED RAFTER BEARING SCALE: 3/4" = 1'-0"



INT RAFTER BRG SCALE: 3/4" = 1'-0"



RAFTER BRG AT EXIST WALL SCALE: 3/4" = 1'-0"



TYP RAFTER BEARING SCALE: 3/4" = 1'-0"

NOTES:

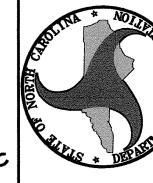
- I. FRAME WALLS W/ 2X6 @ 16, UON ON PLANS. GABLE WALL STUDS SHALL BE FULL HEIGHT (BALLOON FRAMED), UON.
- 2. MAXIMUM NOTCH OR HOLE SIZE SHALL NOT EXCEED & DEPTH OF WALL STUD WOUT ENGINEER APPROVAL.
- 3. WALL SHEATHING SHALL BE 7 OSB OR PLYWOOD, W/ 24/16 SPAN RATING, EXPOSURE 1. ATTACH W/ 8D NAILS @ 611 OC ALONG ALL PANEL EDGES \$ 8" OC OTHERWISE.
- 4. RAFTERS ARE 9-1/2" WOOD 1-JOISTS @ 24" OC, UON.
- 5. INSTALL I-JOIST FRAMING, INCLUDING BRIDGING & BRACING, IN ACCORDANCE W/ JOIST MFR REQUIREMENTS.
- 6. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE ABOVE FIRST FINISH FLOOR, REF ELEVATION = $+0^{1}-0^{11}$.
- 7. TOP OF NEW WALLS TO MATCH EXIST WALL FLEV = +8'-94" AFF.

- 8. FRAMING ELEVATIONS ARE BASED ON EXISTING WALL HEIGHT \$ SEPARATION. FIELD VERIFY & ADJUST ELEVATIONS AS REQUIRED.
- 9. ROOF SHEATHING SHALL BE \$" OSB OR PLYWOOD, W/ 32/16 SPAN RATING, EXPOSURE 1. ATTACH W/ 8D NAILS @ 6" OC ALONG ALL PANEL EDGES \$ 8" OC OTHERWISE.
- 10. SEE HEADER SCHEDULE FOR MISC. HEADERS NOT SPECIFIED ON PLANS. SEE ARCH FOR DOOR \$ WINDOW OPENINGS. SEE MECH FOR EQUIPMENT OPENINGS.
- II. SUBMIT SHOP DRAWINGS FOR ALL CONCRETE & MASONRY FASTENERS # TRUSS TIE-DOWN CONNECTORS.

BEAM SCHEDULE

12. FRAME FLAT CEILINGS W/ 2X6 @ 16" OC, UON.

7. TOP OF NEW WALLS TO MATCH EXIST WALL ELEV = +8'-9년" AFF, FIELD VERIFY.	MARK SIZE		
	BM-I (3) 2XI0		
6 6	BM-2 (3) 1-3/4" X 7-1/4" LVL BM-3 (2) 1-3/4" X 9-1/2" LVL		
$1^{1}-0^{1}$ \downarrow	BM-4 (3) 1-3/4" X 9-1/2" LVL		
TOST CONTINUE TION	BM-5 (2) 1-3/4" X 11-7/8" LVL		0
	BM-6 (3) 1-3/4" X 11-7/8" LVL BM-7 (2) 1-3/4" X 14-0" LVL		
\ 	BM-8 (2) 1-3/4" X 16-0" LVL		SIGN, N
FLYWOOD FLOOR	ave a reli oc cellulo	li	Ш € 5
ATTIC ACCESS			
ATTIC ACCESS HATCH, SEE 12/54	HEADER SCHEDULE		LITIES IITECTS & EP MANAGEMENT
BM-4	STUD SIZE OPENING SIZE		
$ \begin{array}{c c} \hline 2 & \hline \end{array} $	2X4 UP TO 4 ¹ -0 ¹ (2) 2X8		
52	$4^{1}-0^{11}-6^{1}-8^{11} \qquad (2) \ 2X10$ UP TO $4^{1}-0^{11} \qquad (3) \ 2X8$		
2X8 @ 16" OC CEILING JOISTS OVER FAMILY ROOM & STORAGE	2X6		FACILITI ARCHITECT FACILITIES MANAGE
			T S
BUILD UP HATCHED WALL 3" TO MATCH EAVE ELEVATION			
AROUND BUILDING, SEE 2/52 \$ 3/52, FIELD VERIFY	2'-6"		A STOLL I
2/52 \$ 3/52, FIELD VERIFY	3 12-6"		A AO
BM-4	<u>•</u>		
SIM			E THE THE
	2	0	A DEE
2XIO OUTLOOKERS	2XIO OUTLOOKERS		4
	│ —┼┼┼──┤		Ġ_
SYMBOL DENOTES STUB POST FROM	DING CHING		US- ente
HIGH BEAM TO BEAM BELOW, SEE 10/S4	STUI STUI SARD ION		ר האיני
BM-4 BM-4	ZENT OF THE STATE		
53 BM-3 C C BM-3 BM-3 C C BM-3 BM-3 C C C BM-3 C C C C C C C C C C C C C C C C C C	2 A S S C O U T E E E E E E E E E E E E E E E E E E		our itor
	AALL		Co Isit
2X8 @ 24 OVER BM-4	PD D C X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y		_ > =
FRAMING, LOW ROOF SHEATHING CONT	APPRIOR TO PELL		ngto rea/
BELOW OVER FRAMING			ing Yre
	POST SHALL BE CONT TO TOP OF WALL, TYP	В	sh it /
	I TO TO! OF PALE, TH		Wash Rest /
	FRAME ABOVE EXIST WALL TO FORM GABLE, TYP		_
BM _T 6			PROJECT:
(2) 14" LVL (4) (2) 14" LVL			5
3			
(2) 14" LVL (3) (2) 14" LVL	TO MATCH EAVE ELEVATION		TIP PROJ. NO. K- WBS NO. 41
(2) 14" LVL (3) (2) 14" LVL (53) (2) 14" LVL (53) (2) 14" LVL	9 AROUND BUILDING, SEE		CONTRACT ID NO.
	2) —		FEDERAL ID NO. NHS-
(2) 14" LVL (2) 14" LVL			NO. DATI
BM-1 BM-4			
SEE 8/54 FOR /	m m	A	DATE ISSUED: 10
POST CONNECTION —	-o"	1 1	DRAWN BY:
6 ¹ -2 ¹¹ 30 ¹ -0 ¹¹ 53 6 ¹ -	-2"	1 1	CHECKED BY:
SEE 4/54 \$ 5/54 FOR EYE- 2XIO @ 24" OUT-OUT OF STUD			SHEET NO.
	FRAMING PLAN		20
(1 1	



Washington County L Rest Area/ Visitor Ce 1248 US-64 EAST PLYMOUTH, NC 278

TIP PROJ. NO. K-5000 41532.3.1 WBS NO. CONTRACT ID NO. FEDERAL ID NO. NHS-0064(158)

REVISIONS NO. DATE

DATE ISSUED: 10/09/1 DRAWN BY:

SHEET NO. 90

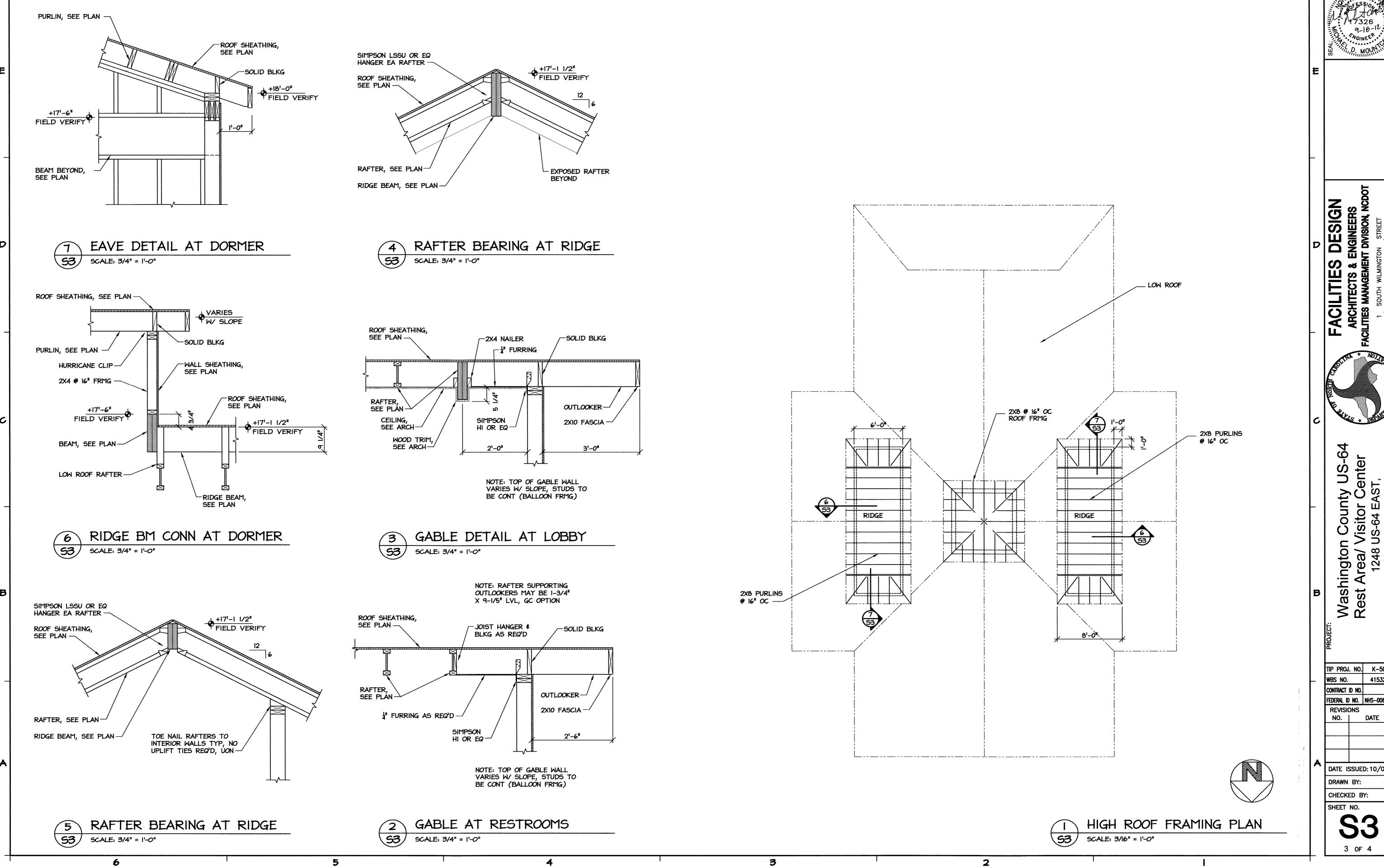
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3

SCALE: 3/16" = 1'-0"

2

2 OF 4

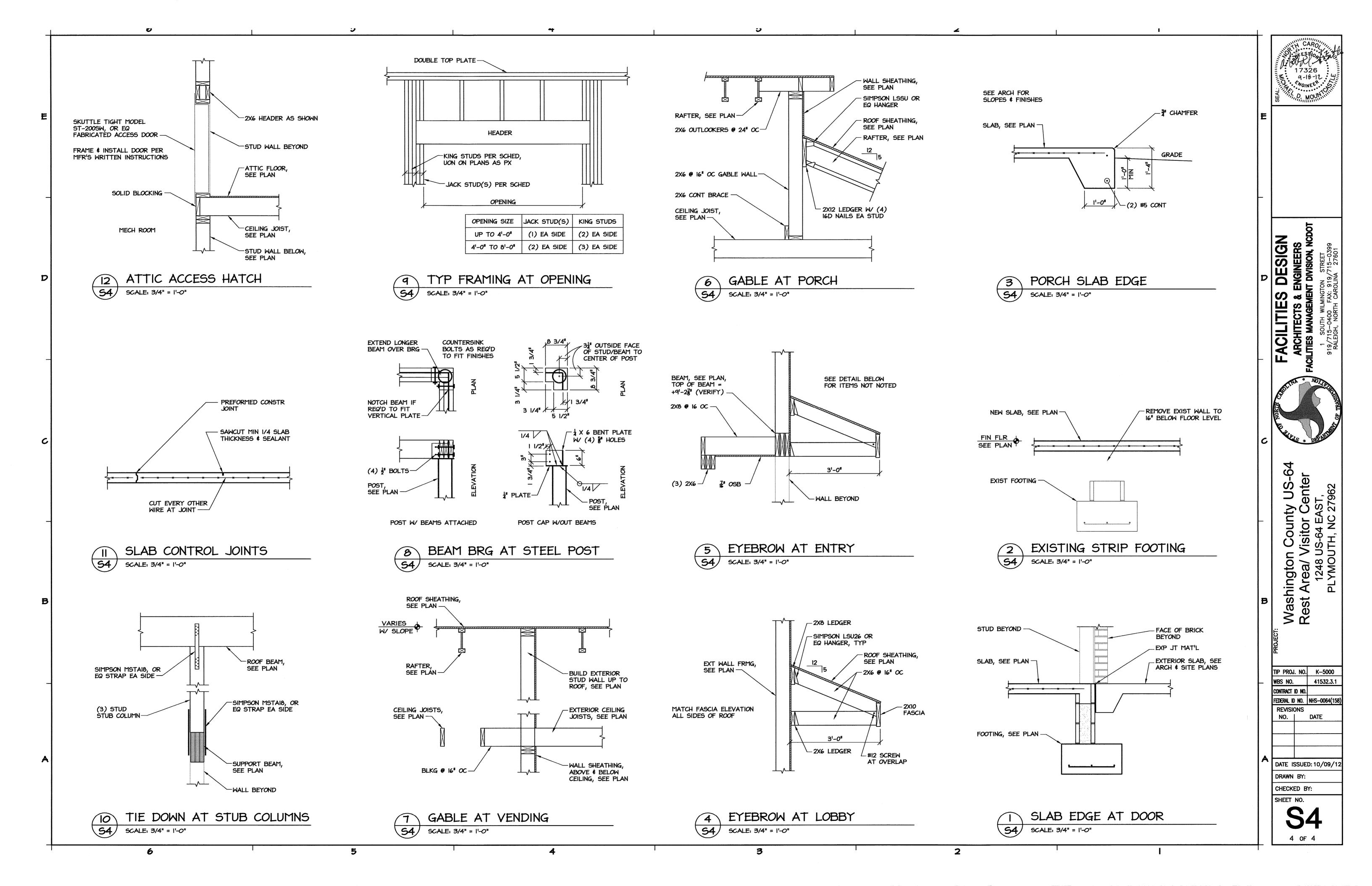


Washington County L Rest Area/ Visitor Ce 1248 US-64 EAST PLYMOUTH, NC 278

TIP PROJ. NO. K-5000 41532.3.1 FEDERAL ID NO. NHS-0064(158)

DATE ISSUED: 10/09/12

S3 3 OF 4



AMOUNT

SYMBOL LEGEND - PLUMBING

DESCRIPTION

WASTE PIPING (W)

VENT PIPING (V)

COLD WATER PIPING (CW)

HOT WATER PIPING (HW)

HOT WATER RETURN PIPING (HWR)

SOLAR COLLECTOR SUPPLY LINE

SOLAR COLLECTOR RETURN LINE

CLEANOUT FINISH FLOOR

DIELECTRIC UNION

SHUT-OFF VALVE

BALANCING VALVE

CIRCULATION PUMP (CP)

WATER METER (MTR)

VENT THRU ROOF (VTR)

CHECK VALVE

WALL/HORIZONTAL CLEANOUT

CLEANOUT FINISH GRADE - PROVIDE FLUSH

CONCRETE COLLAR AND BRONZE COVER

HIGH TEMPERATURE HOT WATER PIPING (HTHW) 140 DEG. F

LOW TEMPERATURE HOT WATER PIPING (LTHW) 110 DEG. F

SYMBOL

——O COFF

─ COFG

wco/Hco

DESIGN NGINEERS

ACILITIES
ARCHITECTS &



Y US-64 ENTER

WASHINGTON COUNT REST AREA/VISITOR C 1248 US-64 EAS PLYMOUTH, NC 27

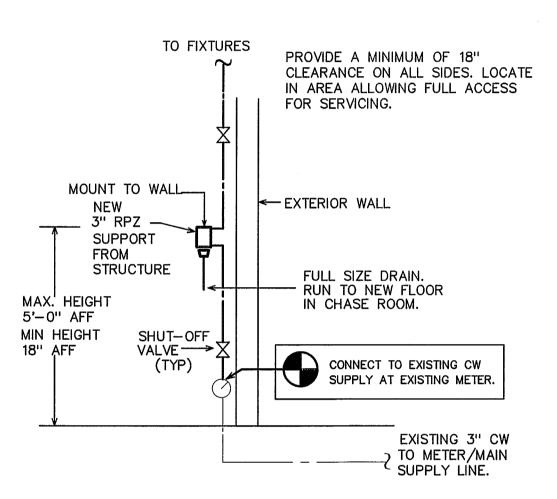
CONNECTION POINT FROM NEW TO EXISTING PIPING.

THERMOSTATIC MIXING VALVE (TMV)

LOAD SUMMARY - PLUMBING

66.0 114.5 69.7

W,	WATER HEATER SIZING							
UNT	ITEM	GPH						
7	LAVATORY	35.0						
	CAN WASH	10.0						
	TOTAL	45.0 GPH						



$\overline{2}$	RPZ	MOL	JN	TING	DETAIL
(P1)	SCALE:	NOT	ТО	SCALE	

NOTE: PROVIDE WATTS 9D BACKFLOW PREVENTER OR EQUAL ON SUPPLY LINE.	11
NOTE: ALL MOUNTING HEIGHTS SHALL MEET THE NCSBC AND ADA. EWC 82 85 72 86 75 75 76 77 78 78 78 78 78 78 78 78	FINISH FLOOR

3	EWC	DETA	<u>IL</u>
P1	SCALE:	NOT TO	SCALE

	PLUMBING FIXTURE SC	UCDOLE	aparting and the second and the seco
MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
WC/ WCHC	WATER CLOSET AMERICAN STANDARD "AFWALL FLOWISE 1.28 GPF" #3353.128, ELONGATED BOWL, VITREOUS CHINA, AND 1 1/2" BACK SPUD. WCHC TO BE ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO HYDROTEK H-8000C-CB-WB FLUSH VALVE W/ELEC. WALL BOX.	ZURN #Z5617 FIXTURE. ZURN #ZEMS6140AV FLUSH VALVE.	KOHLER KINGSTON #K-4329 FIXTURE. SLOAN REGAL OPTIMA MODEL 152-1.28ES-S VALVE.
VC-1	WATER CLOSET AMERICAN STANDARD "MADERA FLOWISE 1.28 GPF" #3461.128, ELONGATED BOWL, VITREOUS CHINA, AND 1 1/2" TOP SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE EQUAL TO HYDROTEK H-8000C-CT-WB FLUSH VALVE.	ZURN #Z5665 FIXTURE. ZURN #ZEMS6000IS FLUSH VALVE.	KOHLER HIGHCREST #K-4302 FIXTURE. REGAL OPTIMA MODEL 153-1.28ES-S VALVE.
UR	WATER-LESS URINAL EXISTING TO BE RE-USED. REMOVE AND STORE FOR RE-USE.		
L1	LAVATORY (ACCESSIBLE, WALL HUNG) EXISTING TO BE RE-USED. REMOVE AND STORE FOR RE-USE. REMOVE EXISTING HANDS-FREE FAUCET AND STORE FOR RE-USE.		
L2	LAVATORY (ACCESSIBLE, WALL HUNG) AMERICAN STANDARD "LUCERNE" # 0355.012 WHITE WITH CONCEALED ARM CARRIER AND DRAIN ASSEMBLY (7723.018). ADA COMPLIANT. FURNISH WITH SLOAN EBF-85 BATTERY POWERED FAUCET. COORDINATE TRIM AND SINK FAUCET DRILLING FOR SINGLE HOLE OR AS REQUIRED PER OWNER.	KOHLER GREENWICH #K-2032 WITH CHICAGO SENSOR FAUCET #166.606.	ELJER MURRAY II #0510244 WITH SPEAKMAN SENSOR FAUCET S8700.
MS	MOP SINK FAUCET ACORN MODEL KFC CHROME PLATED SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT.	SPEAKMAN #MR-371 MOP SINK FAUCET.	CRANE #830-AA MOP SINK FAUCET.
СР	CIRCULATING PUMP BELL & GOSSET, SERIES NBF-22 IN-LINE CIRCULATOR PUMP, 1/12 HP, 115 VAC, FLA=0.8 1 Ph., 3/4" CONN., WITH A MAXIMUM OF 22 GPM AND 15' TDH. PUMP TO BE ALL BRONZE CONSTRUCTION, COORDINATE WITH ELEC. CONTRACTOR FOR POWER FEED. PROVIDE DISCONNECT SWITCH.	TACO MODEL #110.	ARMSTRONG MODEL #S-25.
EWC	HIGH/LOW ELECTRIC WATER COOLER OASIS DUAL LEVEL ELECTRIC WATER COOLER. MODEL # P8ACSL, ADA COMPLIANT. PIPE TO SINGLE DRAIN AND SUPPLY LINE.	HALSEY TAYLOR #HAC8BL-Q.	ELKAY MODEL #EZSTL8LC.
ſ₽V	TRAP PRIMER VALVE PPP INC. MODEL# PR-500, 1/2" INLET, 1/2" OUTLET	JOSAM #88300.	WATTS #A200.
ws	WATER CLOSET SUPPORTS JR SMITH MODEL# 0542F, VERTICAL HUB AND SPIGOT.	ZURN #1204	JOSAM STD. 4" HUB AND SPIGOT, 2" VENT.
US	URINAL SUPPORTS SMITH MODEL# 0637	ZURN #1221.	JOSAM #17550.
ТΜ∨	THERMOSTATIC MIXING VALVE LEONARD TM-15-E MIXING VALVE WITH CHECKSTOPS. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED TEMPERATURE (90 DEG F.). INSTALL PER MANUFACTURER'S SPECIFICATIONS.	WATTS MMV SERIES.	TACO 5000 SERIES.
НВ	HOSE BIBB ZURN Z-1330-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	WATTS #HY-330.	JAY R. SMITH #5509QT.
SST	DRAINBACK SOLAR ELECTRIC WATER HEATING SYSTEM/TANK HOLOCENE TECHNOLOGIES DRAINBACK SOLAR WATER HEATING SYSTEM WITH 130 GALLON SOLAR STORAGE TANK (SST). PROVIDE PIPING TO EWH PER MFR SPECIFICATIONS. PROVIDE COLLECTOR PANELS ON ROOF AND ALL COMPONENTS (PIPING, VALVES, PUMP, ETC.) AS REQUIRED.	SOLAR DIRECT TRENDSETTER SYSTEM.	LEVEREDGE GUARDIAN DB SYSTEM.
EWH	ELECTRIC WATER HEATER A.O. SMITH MODEL DEN-80, 80 GALLON, 4,500 WATT, 30 GPH RECOVERY AT 60 DEGREE RISE. 3/4" INLET AND OUTLET, 208V, 1 PH. PROVIDE DRAIN PAN, PRESSURE RELIEF VALVE. PROVIDE EXPANSION TANK (ET) AMTROL MODEL ST-12-C 4.4 GALLON, STEEL CONSTRUCTION, STAMPED IN ACCORDANCE WITH THE ASME CODE FOR WORKING PRESSURE. FACTORY AIR PRECHARGED AND FIELD ADJUSTED. ALL WELDS MUST CONFORM TO ASME CODES, AND ALL INTERNAL PARTS MUST COMPLY WITH FDA REGULATIONS AND APPROVAL.	STATE PATRIOT PCE 82 WATER HEATER. STATE ETC-5X EXPANSION TANK.	RHEEM/RUUD ELD 80 WATER HEATER. WATTS DETA-12 EXPANSION TANK.
FS	FLOOR SINK ZURN PVC FLOOR SINK MODEL FD-2370-PV3, 12" X 12", FULL GRATE, WITH 3" PIPE CONNECTION.	OATEY #42721.	SIOUX CHIEF #961.
FD	FLOOR DRAIN ZURN ZN-415. PROVIDE WITH DEEP SEAL P-TRAP, AND TYPE "B" STRAINER. PROVIDE VANDAL-PROOF TOP. PROVIDE MODEL WITH TRAP PRIMER CONNECTION ONLY FOR FLOOR DRAINS IN AREAS NOTED ON SHEET P2.	JOSAM #30000A.	JAY R. SMITH #2005—A.
РНВ	FREEZE-PROOF HOSEBIBB ZURN Z-1320-C, 3/4" NON FREEZE WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	JAY R. SMITH #5509QT.	WATTS HY-725.
RPZ	2" REDUCED PRESSURE BACKFLOW PREVENTER WATTS MODEL #009QT-2" REDUCED PRESSURE BACKFLOW PREVENTER, IRON CONSTRUCTION.	ZURN #375-2"	FEBCO #860-2"

OR APPROVED EQUAL

GENERAL NOTES - PLUMBING

1. PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.

2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.

3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.

4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.

5. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE—REQUIRED AND MANUFACTURER—REQUESTED SERVICE CLEARANCES.

6. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.

7. ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS.

8. AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.

9. PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTOR APPROPRIATELY.

10. PROVIDE CONCRETE RING FOR ALL EXTERIOR CLEAN-OUTS.

11. REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION PRIOR TO START

12. G.C. TO PROVIDE ROOF PENETRATIONS.

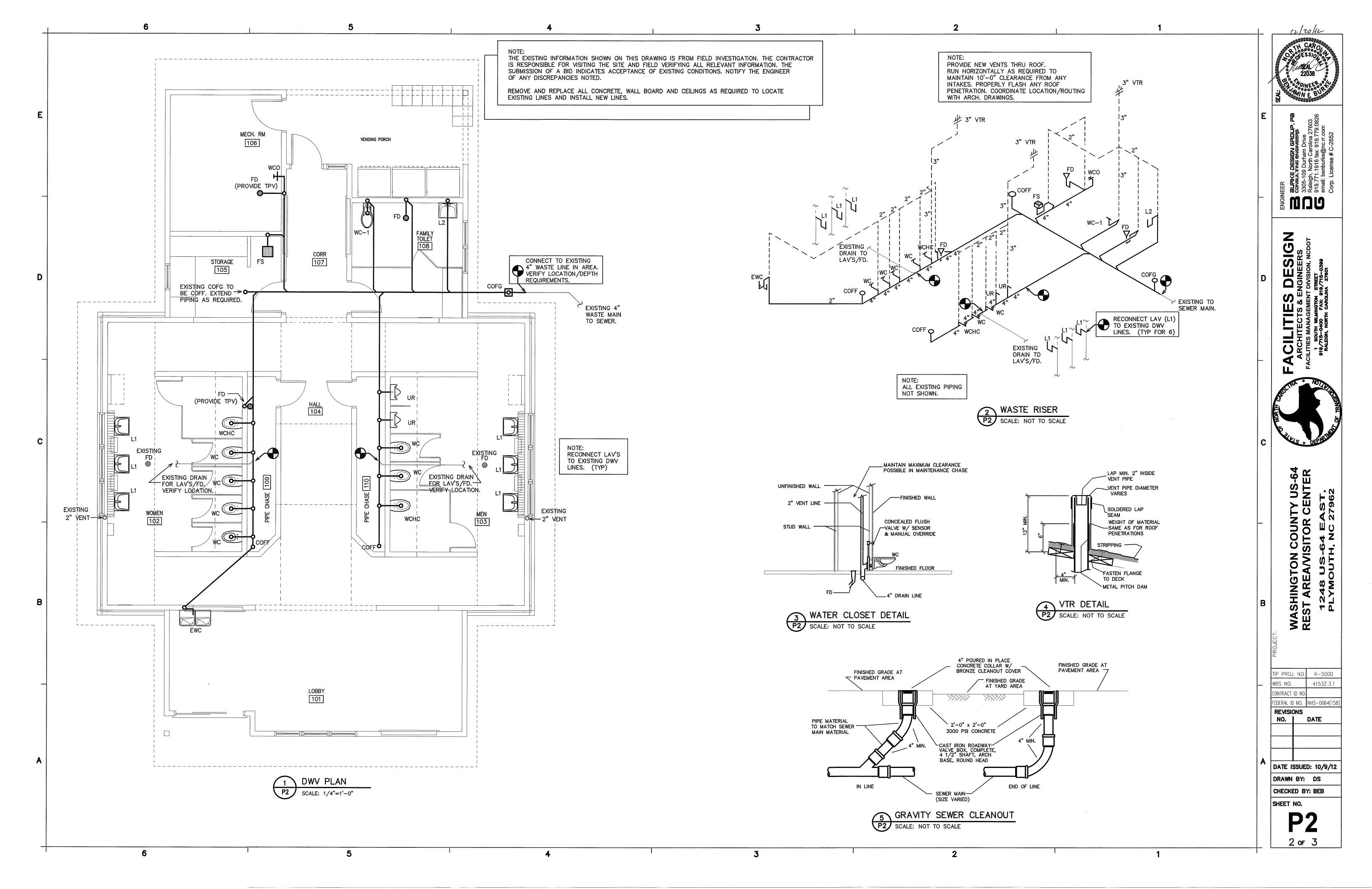
13. PROVIDE HTHW AST 120 DEGREES (F) AND LTHW AT 90 DEGREES (F).

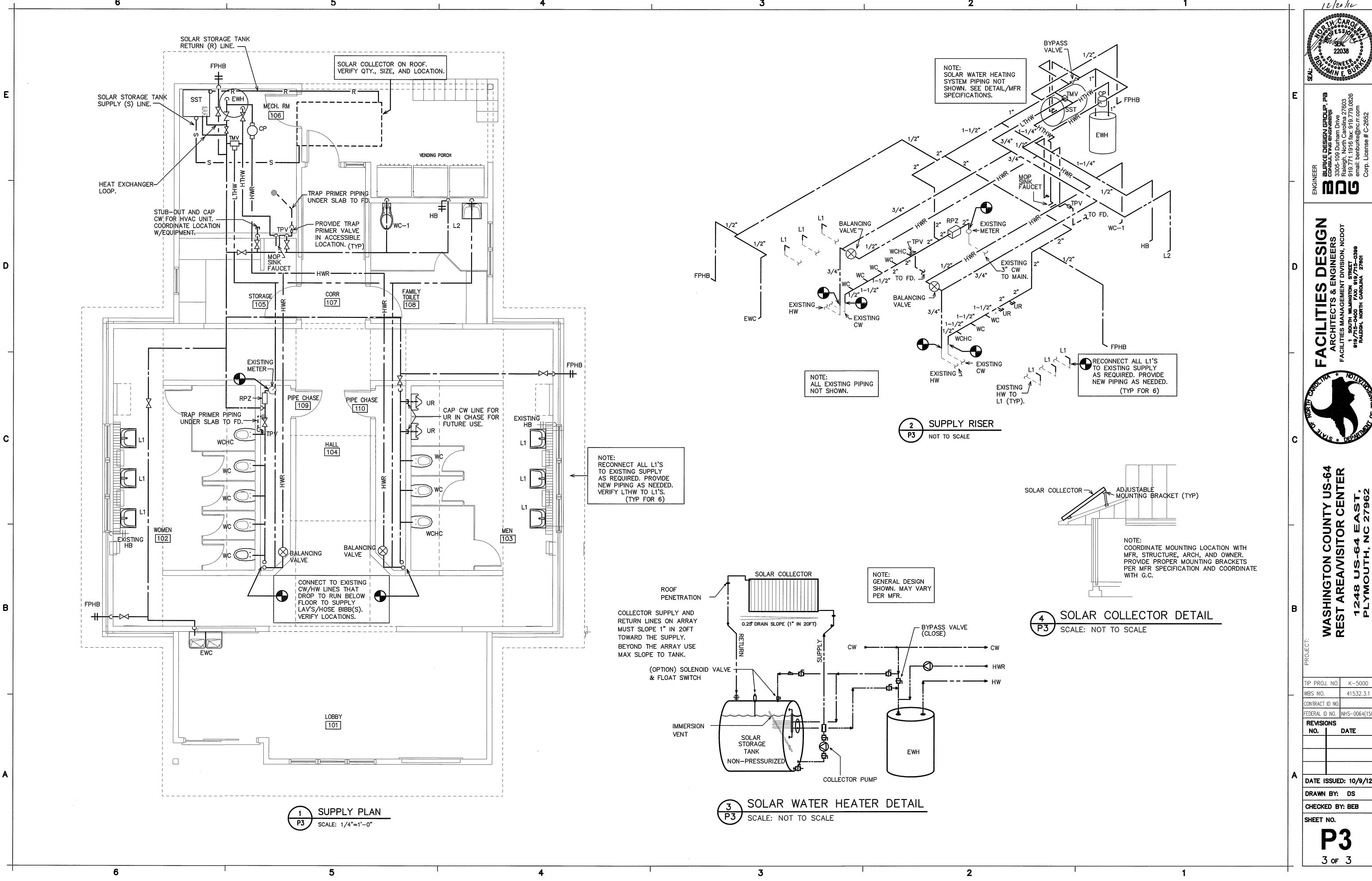
TIP PROJ. NO. K-5000 41532.3.1 CONTRACT ID NO.

FEDERAL ID NO. NHS-0064(158) NO. DATE

DATE ISSUED: 10/9/12 DRAWN BY: DS CHECKED BY: BEB

SHEET NO.





EDERAL ID NO. NHS-0064(158)

NECK

SIZE

8" DIA

14" X 6"

RECTANGULAR GALVANIZED STEEL DUCTWORK

RIGID ROUND GALVANIZED STEEL DUCTWORK

WITH LOCKING, VANDAL PROOF COVER

REMOTE WALL MOUNTED TEMPERATURE SENSOR

SUPPLY DIFFUSER

RETURN GRILLE

THERMOSTAT

LEGEND - MECHANICAL

12 X 8

12" DIA.

CONTRACT ID N FEDERAL ID NO. NHS-0064(158 REVISIONS NO. DATE

MECHANICAL SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE: Energy Cost Budget Prescriptive

Exterior Design Conditions

summer dry bulb

Interior Design Conditions

winter dry bulb 75 F 50%

-44,825 BTU/hr (heat wheel reduction)

14,775 BTU/hr

THERMOSTAT, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE MC. MOUNT THERMOSTAT 48" ABOVE THE FINISHED FLOOR. COORDINATE LOCATION WITH OWNER. PROVIDE AUTO CHANGEOVER THERMOSTAT WITH UNIT OFF POSITION AS MINIMUM. PROVIDE AN EMERGENCY SHUT-OFF SWITCH ABOVE THE THERMOSTAT. PROPERLY LABEL

GENERAL NOTES - MECHANICAL

ANTICIPATED OR ENCOUNTERED INTERFERENCES.

DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.

THERE ARE NO RATED WALLS PENETRATED IN THIS HVAC UPFIT.

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL

COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.

THE LOCATION OF ALL DUCT. PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE

THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR

THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING

CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED

THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH

STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND

FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.

MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.

INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE

DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR. COORDINATE EXACT SIZE WITH SPACE AVAILABLE

DUCT INSULATION SHALL BE 2" FIBERGLASS EXTERIOR DUCT INSULATION WITH FOIL FACING.

BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.

INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL

PROVIDE SPIN IN STARTING COLLARS WITH DAMPERS AT ALL SUPPLY TAKEOFFS.

12. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.

COORDINATE DIFFUSER AND CEILING EXHAUST GRILLE LOCATIONS WITH LIGHTS AND GRID. COORDINATE MOUNTING FRAME WITH CEILING TYPE.

14. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.

PROPERLY SUPPORT FLEXIBLE DUCT, MINIMUM 75% DEFORMATION. PROVIDE SHEET METAL ELBOWS AT ALL

16. ALL DUCT JOINTS SHALL BE SEALED AIRTIGHT WITH FIBER ENPREGNATED MASTIC OR HARDCAST AND TAPE.

17. SUPPORT AHU, EXHAUST FANS, HEAT WHEEL AND ALL DUCTWORK, ETC. FROM STRUCTURE. PIPE STRAPPING WILL NOT BE ALLOWED.

MATERIAL SERVICE COLOR BY ARCHITECT ALUMINUM SUPPLY COLOR BY ARCHITECT SURFACE MOUNT ALUMINUM SUPPLY

COLOR BY ARCHITECT
GYP CEILING MOUNT

COLOR BY ARCHITECT

RA CARNES RAJAH 18" X 18" | 18" X 18" ALUMINUM RETURN 18" X 12" | 18" X 12" EA ALUMINUM EXHAUST CARNES COORDINATE BORDER TYPE WITH THE CEILING/WALL TYPE. SEE ARCH SHEETS PROVIDE DUCT TRANSITIONS AS REQUIRED.

FACE

SIZE

14" X 6"

AIR DISTRIBUTION SCHEDULE

MODEL NO.

RADAH

SASA-40

* OR APPROVED EQUAL BY TUTTLE & BAILEY, OR METALAIRE

HVAC EQUIPMENT SCHEDULE							
WATER SOURCE HEAT							
WSHP #1 WATER SOURCE HEAT PUMP UNIT	* CARRIER MODEL #50PSV048JDC301JO VERTICAL WATER SOURCE HEAT PUMP, 4 TON, 1600 CFM, 18.5 EER, 4.1 COP, 12 GPM WATER. 6.9 FAN FLA, 20.5 COMPRESSOR RLA, 208V. SINGLE PH,33 MCA, 50 MOCP. UNIT SHALL HAVE TOP DISCHARGE WITH RIGHT SIDE RETURN. 51,400 BTUH TOTAL COOLING, 34,200 BTUH SENSIBLE COOLING, 41,100 TOTAL HEATING.						

* OR APPROVED EQUAL BY CLIMATE MASTER, FLORIDA HEAT PUMP, OR TRANE.

MARK

В

MANUFACTURER

CARNES

CARNES

- 1. PROVIDE FACTORY HOSE KIT THAT INCLUDES SHUT-OFF BALL VALVES, BALANCING VALVE ETC.,
- 2. PROVIDE MINIMUM OUTDOOR AIR FLOW SETTINGS AS PER PLAN.
- 3. FAN BASED ON 1/2" EXT. WATER COLUMN STATIC.
- 4. OR EQUAL BY CLIMATE MASTER OR MAMOUTH

FILTER RACK WITH 2" FILTERS.

- 5. PROVIDE CONTROLS SO THAT ERV AND GEOTHERMAL LOOP CIRCULATING PUMP ARE ENERGIZED WHEN HEAT
- 6. PROVIDE PROGRAMMABLE, AUTOMATIC CHANGEOVER, DIGITAL THERMOSTAT WITH REMOTE SENSOR.

PUMP SCHEDULE										
MARK	SERVICE	FLOW (GPM)	HEAD (FT.)	RPM	MIN. EFF.	ELECTRICAL HP VOLTAGE PHASE			TYPE	* B&G MODEL OR APPROVED EQUAL
P–1	GEOTHERMAL LOOP	12	40	3250	68	0.4	115	1	IN-LINE	PL-55

* OR APPROVED EQUAL BY TACO OR ARMSTRONG.

	EXPANSION TANK SCHEDULE										
MARK	VOLUME (GAL.)	VOLUME ACCEPTANCE	SIZE		NO. OF TANKS	REMARKS	B&G MODEL				
	(GAL.)	(GAL.)	DIAMETER	HEIGHT	IANKS		OR APPROVED EQUAL				
ET-1	14	11.3	15	21"	1	GEOTHERMAL LOOP	HFT-90				
					1						

* OR APPROVED EQUAL BY TACO OR ARMSTRONG

EXHA	AUST FAN SCHEDULE
EF-1	
EXHAUST FAN #1	* CARNES MODEL# VCDD010C EXHAUST FAN, 93 CFM @ 1/4" SP, 640 RPM, 1.1 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO EXTERIOR ROOF CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.

* OR APPROVED EQUAL BY GREENHECK OR ACME

ENERGY RECOVERY UNIT SCHEDULE THERMAL PERFORMANCE ERV OUTLET CONDITIONS ENERGY RECOVERY (THERMAL) CAPACITY FANS / MOTORS DESIGN CONDITIONS FLA VOLTS/ (FOR UNIT PHASE/ LEAVING AIR TEMP(F) & HUMIDITY OUTSIDE AIR TEMP(F) & HUMIDITY COOLING CAPACITY HEATING CAPACITY ROOM AIR TEMP (F) & HUMIDITY NOTES: PRESSURE SINGLE POINT) (DB) / (WB OR RH) (DB) / (WB) (MBH / TON) (DB) / (WB OR RH) (MBH) NUMBER WINTER SUMMER WINTER SUMMER WINTER TOTAL SUMMER 208-230V 0.50IN H₀0 10.2 A 11.5 A 15 A 23F / 19 75F / 50% 72F / 50% 80.4F / 69.6F 20.13 / 1.6 44.82 HE1X1NH

NOTES:

- 1. FLOW & LOADS BASED ON ARI-1060 PERFORMANCE & CERTIFIED CORE.
- NOT USED.
- 3. VENTILATION TYPE: STATIC PLATE, HEAT & HUMIDITY TRANSFER. 4. INCLUDE INTEGRAL DISPOSABLE FILTERS (OUTSIDE AND ROOM AIR) WITH MERV8 OR BETTER RATING.
- 5. INCLUDE SINGLE POINT ELECTRICAL POWER CONNECTION.
- 6. HOUSING SHALL BE GALVANIZED, .20 GAUGE (OR THICKER) STEEL WITH LAPPED CORNERS. 7. OR EQUALS BY SEMCO, OR THYBAR.
- 8. SERVICE ACCESS DOORS SHALL BE GASKETED & PROVIDE ACCESS FOR MAINTENANCE OF ALL COMPONENTS. 9. INCLUDE INSULATION ON ALL CASE WALLS & DOORS.
- 10. INCLUDE THERMALLY PROTECTED MOTORS WITH STARTERS. 11. UL LISTED 1995
- 12. PROVIDE WITH FUSED DISCONNECT SWITCH.

ALL LOCAL AND OTHER APPLICABLE CODES. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).

ELECTRICIAN.

Thermal Zone

winter dry bulb

summer dry bulb relative humidity

Building Cooling Load

Equipment efficiencies

Building Heating Load 59,600 BTU/hr

65,100 BTU/hr -20,133 BTU/hr (heat wheel reduction)

44,867 BTU/hr

Mechanical Spacing Conditioning System Unitary — The building is served by (1) 4 ton water source geothermal heat pump with an energyy recovery ventilator.

Boiler — Not applicable to this project.

Chiller — Not applicable to this project.

Efficiencies and outputs are listed on equipment schedules - See drawings.

Equipment schedules with motors.

Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

STATE BUILDING CODE: MECHANICAL CODE. CFM/FLUSHING FIXTURE APPLICATION 70 CFM EACH GANG TOLIET ROOMS 10 FLUSHING FIXTURES X 70 CFM = 700 CFM

CFM/SQ.FT. APPLICATION 0.06 CFM/SQ.FT. CORRIDORS 830 SQ. FT. X 0.06 CFM/SQ.FT. = 50 CFM

TOTAL OUTSIDE AIR REQUIRED - 800 CFM WSHP #1 = 800 CFM PROVIDED

OUTDOOR AIR CALCULATIONS

OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3, 2012 NORTH CAROLINA

800 CFM EXHAUST PROVIDED BY ERV

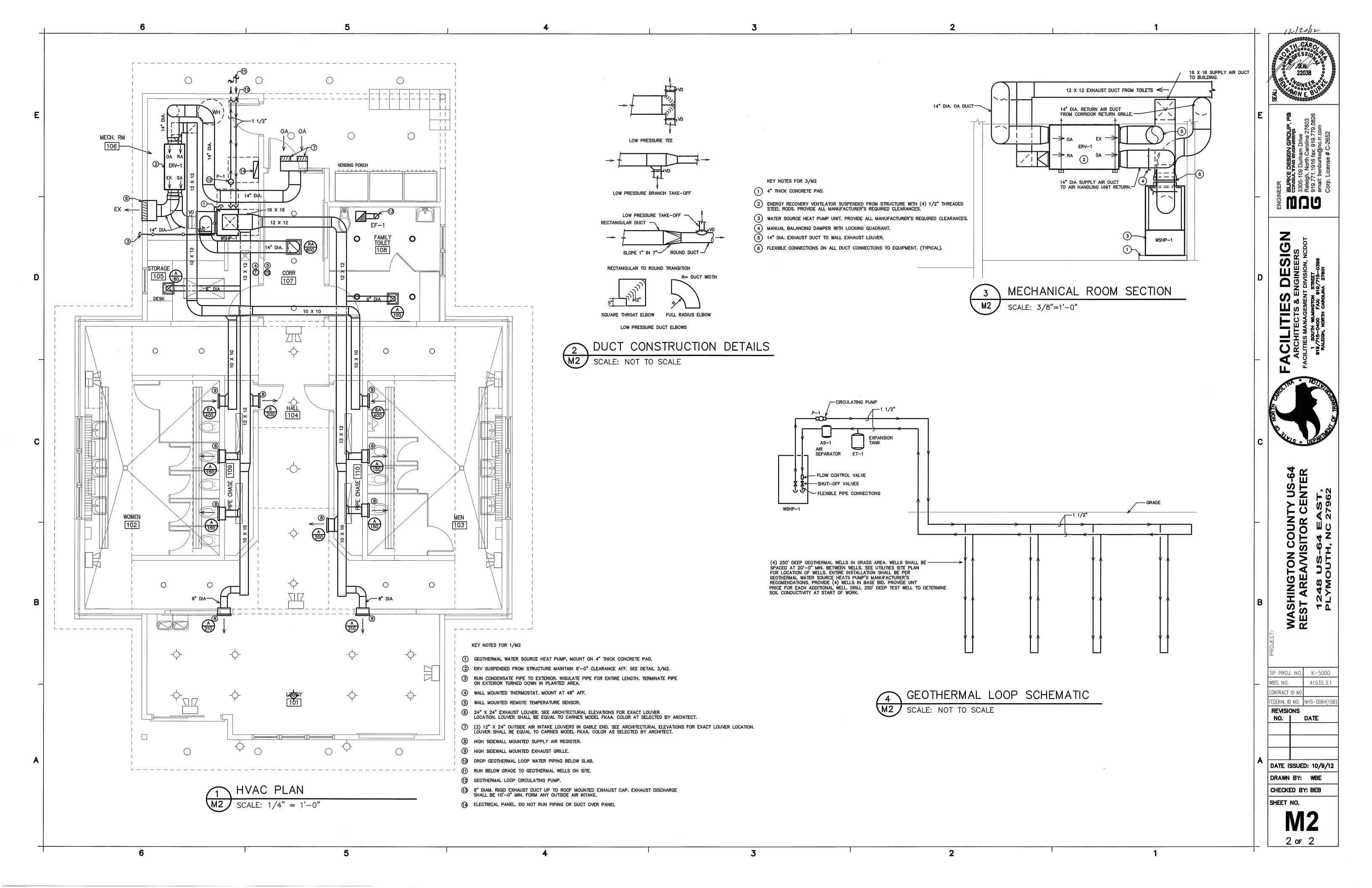
CFM/FLUSHING FIXTURE APPLICATION 50 CFM EACH FAMILY TOLIET ROOM

1 FLUSHING FIXTURE X 50 CFM = 50 CFM 90 CFM EXHAUST PROVIDED BY INDIVIDUAL INTERMITTENT FAN.

DATE ISSUED: 10/9/12 DRAWN BY: WBE CHECKED BY: BEB

SHEET NO.

1 of 2



2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER

CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC).

3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.

4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.

5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.

6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF HOME RUN EXCEEDS 120 FT ON 120V AND 208V CIRCUITS.

7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE EC SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.

8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.

9 THE EC SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GC TO ENSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.

10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.

11 IT SHALL BE THE RESPONSIBILITY OF THE EC TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.

THE EC SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECTS SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA—3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.

13 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES.

GENERAL LEGEND

2X4 FLUORESCENT LIGHT FIXTURE: LETTER DENOTES TYPE OF LIGHT FIXTURE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE).

CEILING MOUNTED CABINET EXHAUST FAN

DUPLEX RECEPTACLE — 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; WP INDICATES WEATHER PROOF, GFI INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED.

QUADRAPLEX RECEPTACLE - 120V

LIGHT SWITCH - 120V

(M) DENOTES A SWITCH WITH INTEGRAL MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.

MOTOR RATED SWITCH

JUNCTION BOX

WP/GFI

—

EXIT

TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD

SINGLE-POLE HOMERUN TO PANELBOARD

COMBINATION EXIT SIGN & EMERGENCY LIGHT

EMERGENCY LIGHT

BRANCH CIRCUIT WIRING

---- SWITCH LEG

II GROUND CONNECTION

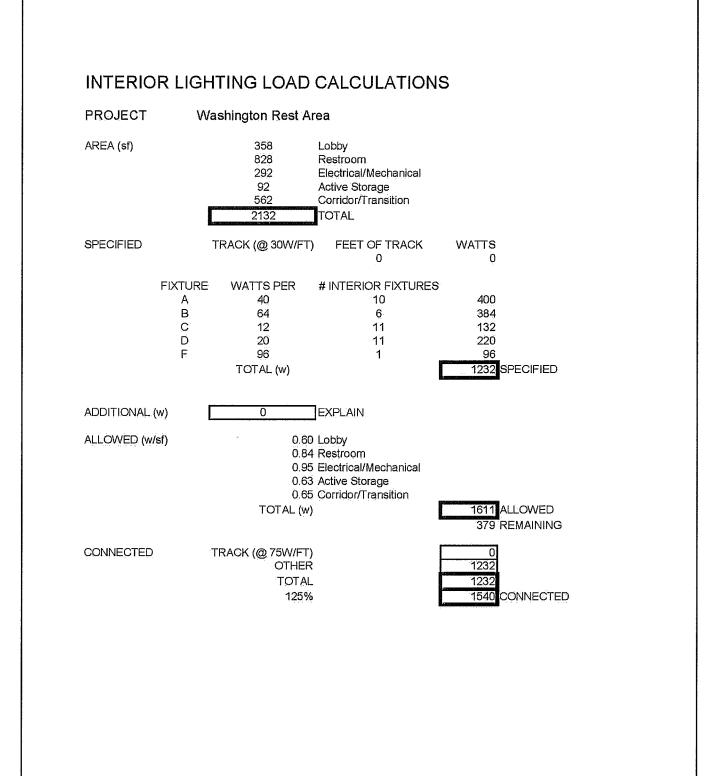
PANEL A DISTRIBUTION PANELBOARD

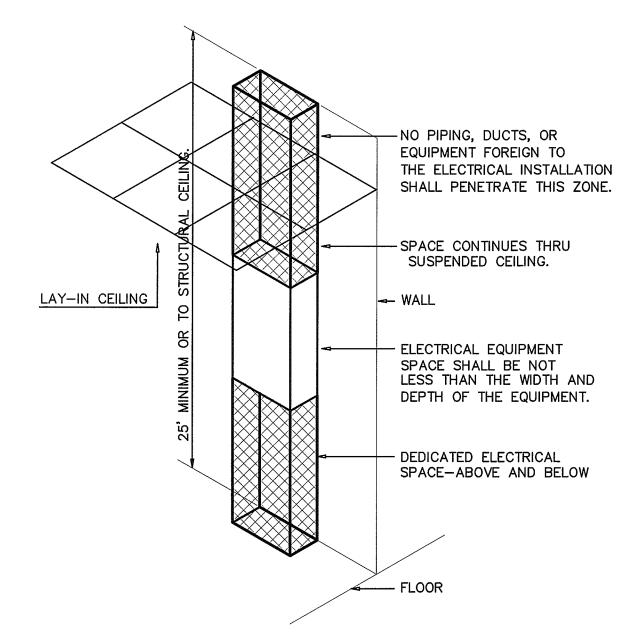
DISCONNECTING MEANS AS REQUIRED BY CODE; 208V, CLASS 3130

LIGHT SENSOR. ORIENTATION AS DIRECTED BY MANUFACTURER.

EXTERIOR PHOTOCELL. PROVIDE PHOTOCELL AS REQUIRED TO SWITCH EXTERIOR FIXTURES. PROVIDE SHIELDING AS REQUIRED TO BLOCK ARTIFICIAL LIGHT, COORDINATE LOCATION.

ELECTRICAL SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE PRESCRIPTIVE X PERFORMANCE ENERGY COST BUDGET Provide a standard riser diagram which indicates designated points for check metering Provide a standard panel schedule description which identifies different enduse loads. Lighting schedule: lamp type required in fixture number of lamps in fixture See Light ballast type used in fixture Fixture Schedule number of ballasts in fixture total wattage in fixture total interior wattage specified vs. allowed 1232 vg / 1611 vg Equipment schedules with motors (not used for mechanical systems) NA motor horsepower number of phases minimum efficiency motor type # of poles DESIGNER STATEMENT I hereby certify that the design of this building complies with the electrical systems, services systems, and equipment requirements of the 2012 North Carolina State Building Code, Energy Edition.

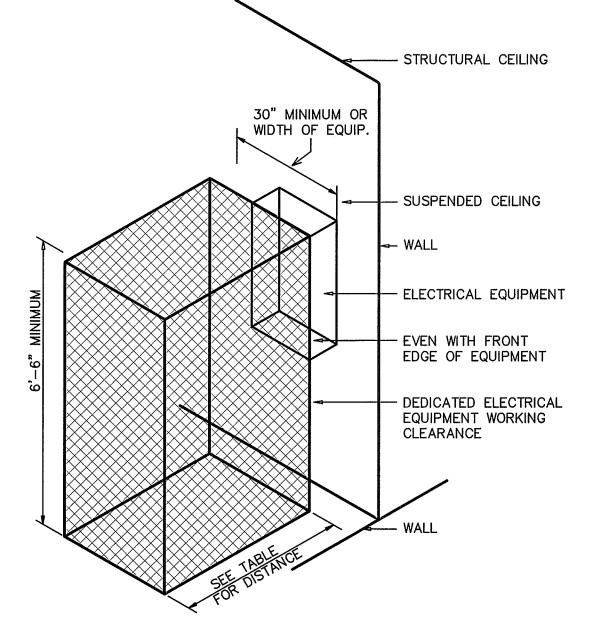




ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

1 DEDICATED SPACE

E1 SCALE: NOT TO SCALE



THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26 OF THE N.E.C.

ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110.26 OF N.E.C.

WORKING CLEARANCES									
VOLTAGE TO			DISTANCE	IN FEET					
GROUND NOMINAL	CONDITION:	1	2		3				
0-150		3	3		3				
151-600		3	3-1/	/2	4				

WHERE THE CONDITIONS ARE AS FOLLOWS:

1 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.

2 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE.

2 ELECTRICAL CLEARANCES
E1 SCALE: NOT TO SCALE

CE DESIGN GROUP, PB CONTRING ENGINEERS | CONTRING ENGINEERS | CONTRING ENGINE | CONTRING ENGINE | CONTRING ENGINE | CONTRICT | CONTR

BNGINEER

BLAIKE DESIGN

CONSULTING EN

3305-109 Durhar

Raleigh, North Ca

919.771.1916 fax

email: benburke@

ITECTS & ENGINEERS
MANAGEMENT DIVISION, NCDOT
UTH WILMINGTON STREET
FOLGO FAX: 919/715-0389

FACILITIES MANAGE

* FACILITIES MANAGE

1 SOUTH WILNIN

918 / 775 - 0400 1

S-64 TER

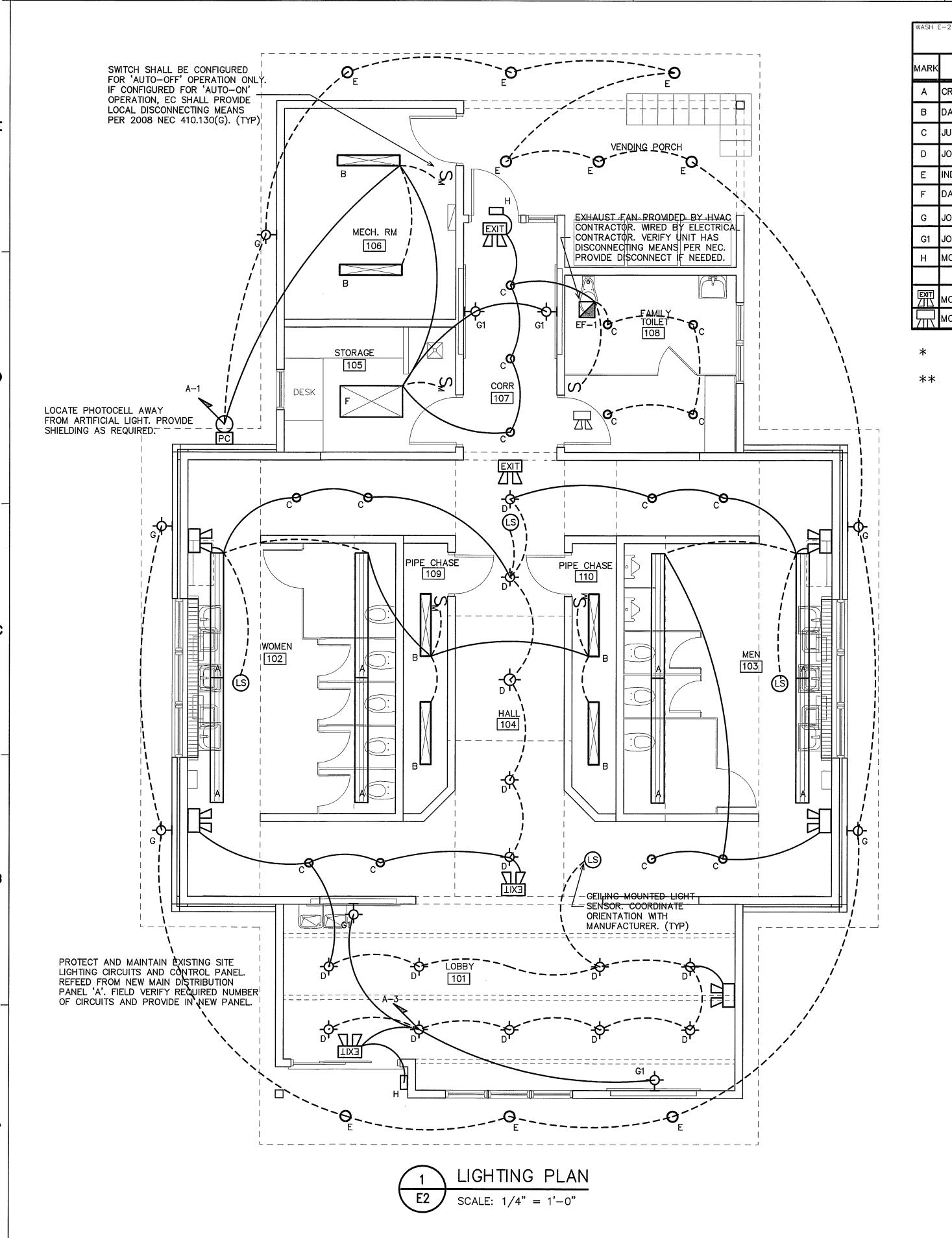
WASHINGTON COUNTY US-REST AREA/VISITOR CENTE 1248 US-64 EAST,

TIP PROJ. NO. K-5000
WBS NO. 41532.3.1
CONTRACT ID NO.
FEDERAL ID NO. NHS-0064(158)
REVISIONS
NO. DATE

DATE ISSUED: 10/9/12
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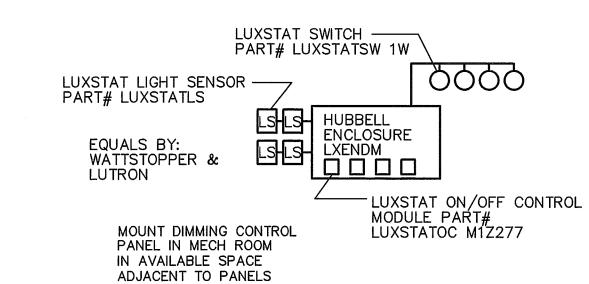
E11 of 3

SHEET NO.



/ARK	MANUFACTURER	CATALOG NO.	VOLT.			BALLAST W	4	I REMARKS		
NIALL	WANOI ACIONLIN			NO.	TYPE	WATTS/LAMP	TYPE	FIXTURE	NEWAINS	
Α	CREE	CS18-40L-40K-10V	UNV	_	LED	_	_	40	1X8 LINEAR SURFACE SUSPENDED LED	
В	DAY-BRITE	T232-UNV-1/2-EB-TSR4-C173	UNV	2	T8	32	EB	64	48" DUAL LAMP STRIP WITH REFLECTOR, WIRE GUARD **	
С	JUNO	IC22LEDG3-35K-U-27B-WH	UNV	_	LED		_	12	6" RECESSED CAN, OPEN TRIM	
D	JOHN TIMBERLAND	V1687	120	7	LED	4	_	28	PENDANT, 7" DIAMETER, 13" HIGH, BRONZE FINISH	
Е	INDY	L6-17351-L600H-CQ	120	-	LED		_	23	EXTERIOR 6" RECESSED CAN, OPEN REFLECTOR **	
F	DAY-BRIȚE	2SMR332-FS01-UNV-1/3	UNV	3	T8	32	EB	96	2X4 SURFACE MODULAR, PRISMATIC ACRYLIC LENS	
G	JOHN TIMBERLAND	V1684	120	7	LED	4	_	28	EXTERIOR DECORATIVE LED WALL SCONCE, 13 1/2 " HIGH.	
G1	JOHN TIMBERLAND	V1685	120	7	LED	4	_	28	DECORATIVE LED WALL SCONCE, 10 1/2 " HIGH.	
Н	MCPHILBEN	PDNB	120	2	HAL	6	_	12	EXTERIOR EMERGENCY LIGHT, BLACK HOUSING	
					,					
EXIT	MCPHILBEN	CCTXL1RW	120	2	сомв	5.4	_	12	COMBINATION EMERGENCY (HALOGEN) / EXIT (LED) LIGHT	
Д	MCPHILBEN	CTX6L12WCSWA	120	2	TUNG	5.4	_	10.8	EMERGENCY LIGHT	

- OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY. 'EB' DENOTES ELECTRONIC BALLAST.
- VERIFY FIXTURE HAS INTEGRAL LOCAL DISCONNECTING MEANS PER NEC 410.130 (G) (2008).



DAYLIGHTING CONTROL SYSTEM E2 SCALE: NOT TO SCALE

ulsolu

FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT



WASHINGTON COUNTY REST AREAWISITOR C

TIP PROJ. NO. K - 500041532.3.1 FEDERAL ID NO. NHS-0064(158) REVISIONS

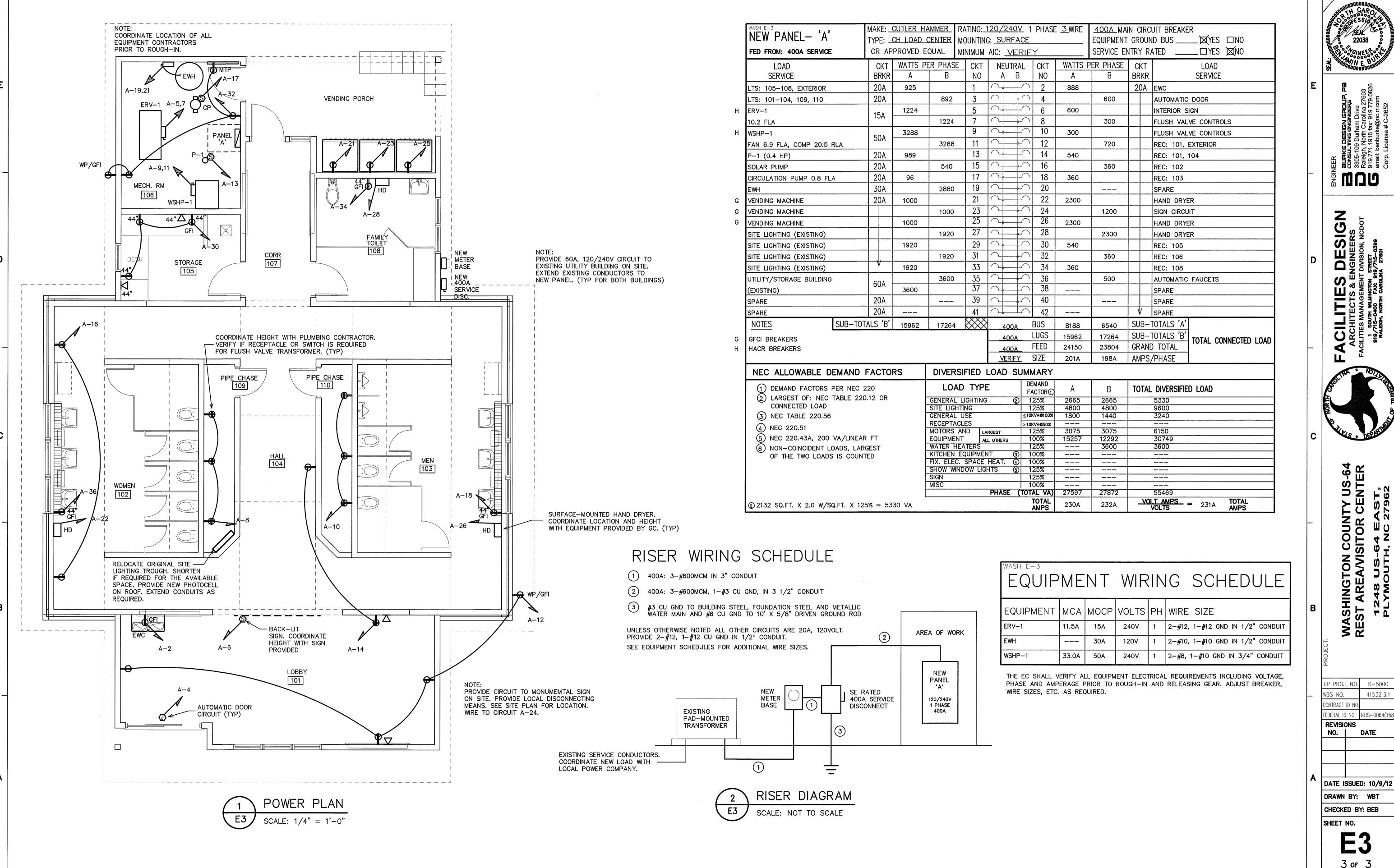
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DATE

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NO.

2 of 3



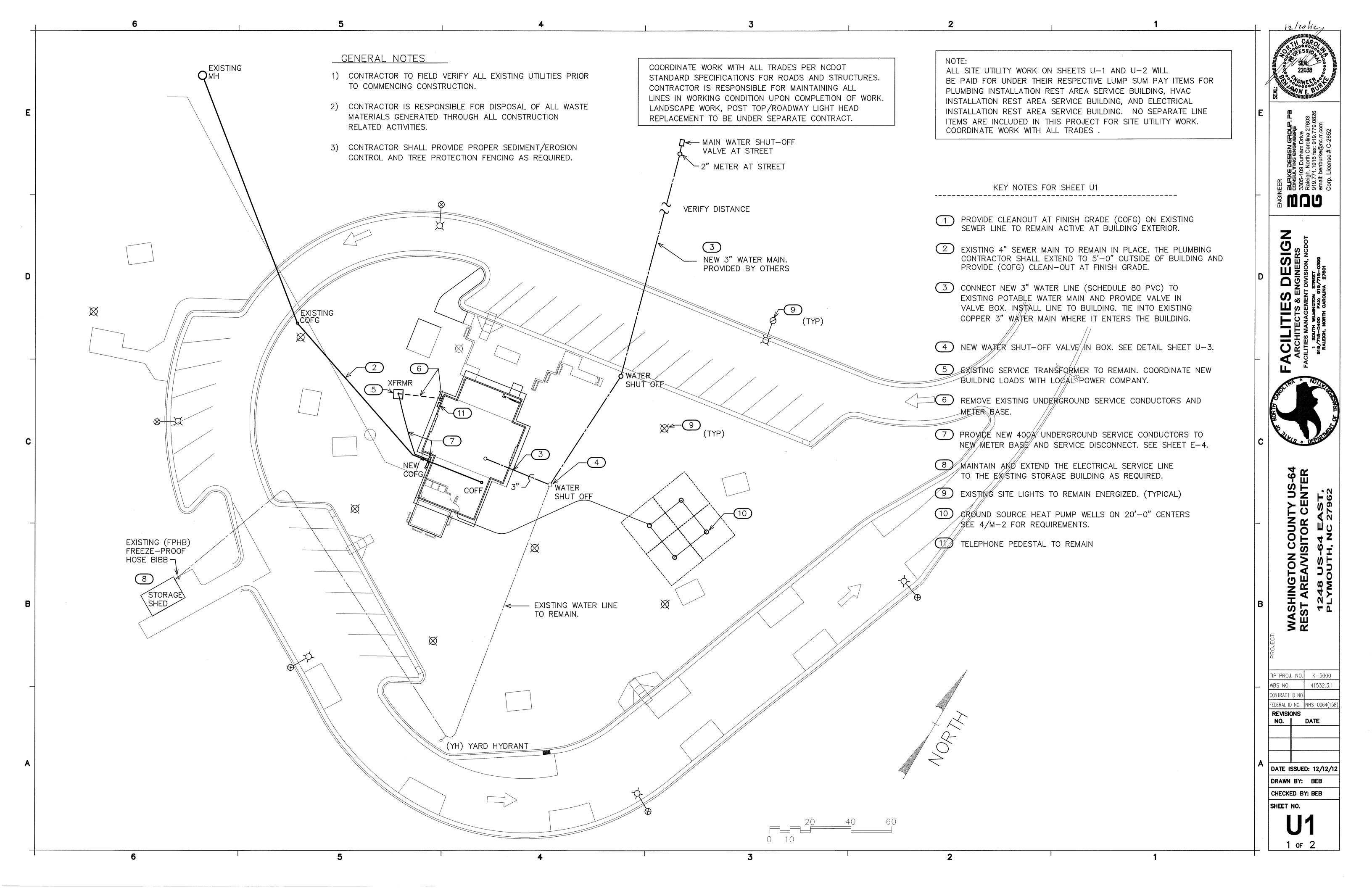
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TIP PROJ. NO. K-5000 41532.3.1

DATE ISSUED: 10/9/12

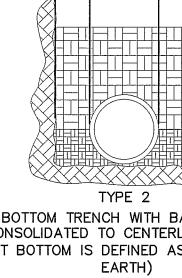
3 of 3



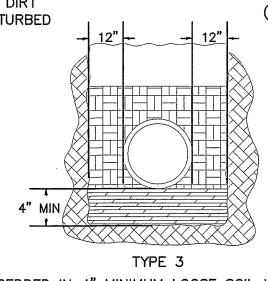
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(NOTE 1) FLAT BOTTOM TRENCH WITH LOOSE DIRT (FLAT BOTTOM IS DEFINED AS UNDISTURBED

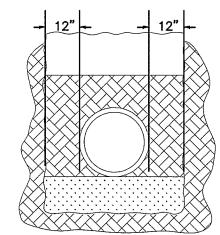
EARTH)



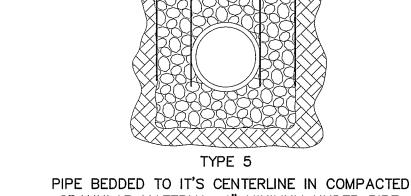
FLAT BOTTOM TRENCH WITH BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE (FLAT BOTTOM IS DEFINED AS UNDISTURBED



PIPE BEDDED IN 4" MINIMUM LOOSE SOIL WITH BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE (LOOSE SOIL IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCK, ORGANIC MATERIAL, FOREIGN MATERIALS AND FROZEN EARTH.)



PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER, 4" MINIMUM WITH BACKFILL COMPACTED TO TOP OF PIPE (APPROXIMATELY 80 PERCENT STANDARD PROCTOR, AASHTO T-99)



GRANULAR MATERIAL, 4" MINIMUM UNDER PIPE. COMPACTED GRANULAR OR SELECT MATERIAL TO TOP OF PIPE. (APPROXIMATELY 90 PERCENT STANDARD PROCTOR, AASTO T-99) (SELECT MATERIAL IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, ORGANIC MATERIAL, FOREIGN MATERIALS AND FROZEN EARTH)

NOTES:

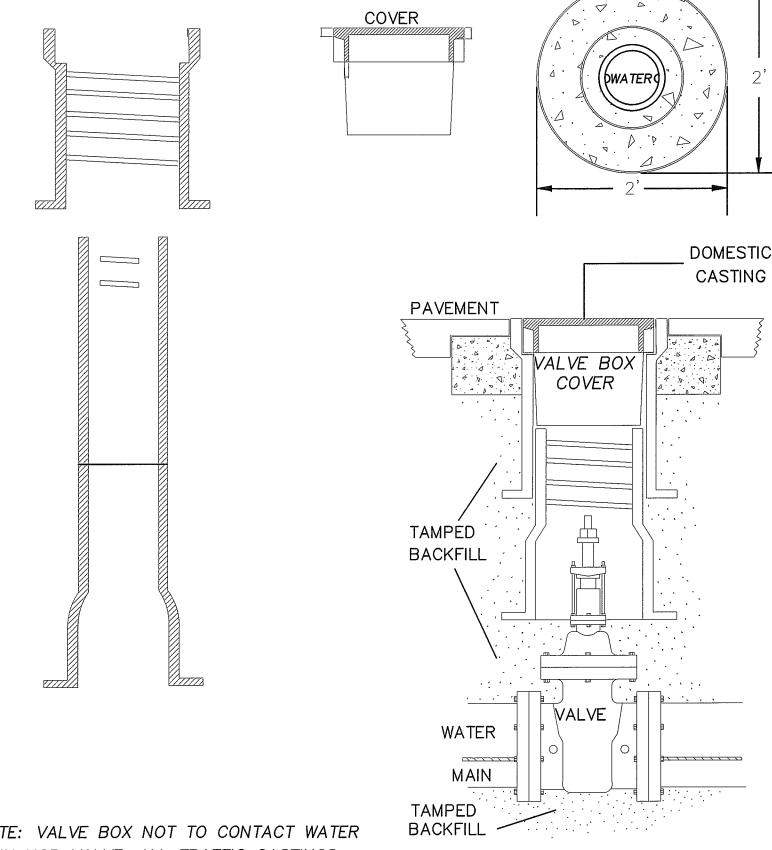
- 1. FOR NORMAL PIPE SIZES 14 INCH AND LARGER, CONSIDERATION SHOULD BE GIVEN TO THE USE OF LAYING CONDITIONS OTHER THAN TYPE 1.
- 2. CONSIDERATION OF THE PIPE-ZONE EMBEDMENT CONDITIONS INCLUDED IN THIS FIGURE MAY BE INFLUENCE BY FACTORS OTHER THAN PIPE STRENGTH. FOR ADDITIONAL INFORMATION ON PIPE BEDDING AND BACKFILL, SEE ANSI/AWWA C600.

UTILITY SEPARATION NOTES

- 1) LATERAL SEPARATION OF SEWERS OR WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST TEN (10) FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A TEN (10) FOOT LATERAL SEPARATION -- IN WHICH CASE:
- A) THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION ON THE BOTTOM OF THE WATER MAIN AT LEAST EIGHTEEN (18) INCHES ABOVE THE TOP OF SEWER: OR
- B) THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST EIGHTEEN (18) INCHES ABOVE THE TOP OF SEWER.
- 2) CROSSING A WATER MAIN OVER A SEWER. WHENEVER NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN EIGHTEEN (18) INCH SEPARATION——IN WHICH CASE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE CROSSING.
- 3) CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF THE (10) FEET ON EACH SIDE OF THE POINT(S) OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
- 4) SEWER AND STORMWATER PIPES TO HAVE A MINIMUM OF 24" SEPARATION FROM BOTTOM OF STORMWATER PIPE AND TOP OF SEWER PIPE.

NOTE: CONCRETE VALVE PAD REQUIRED ON ALL VALVES.

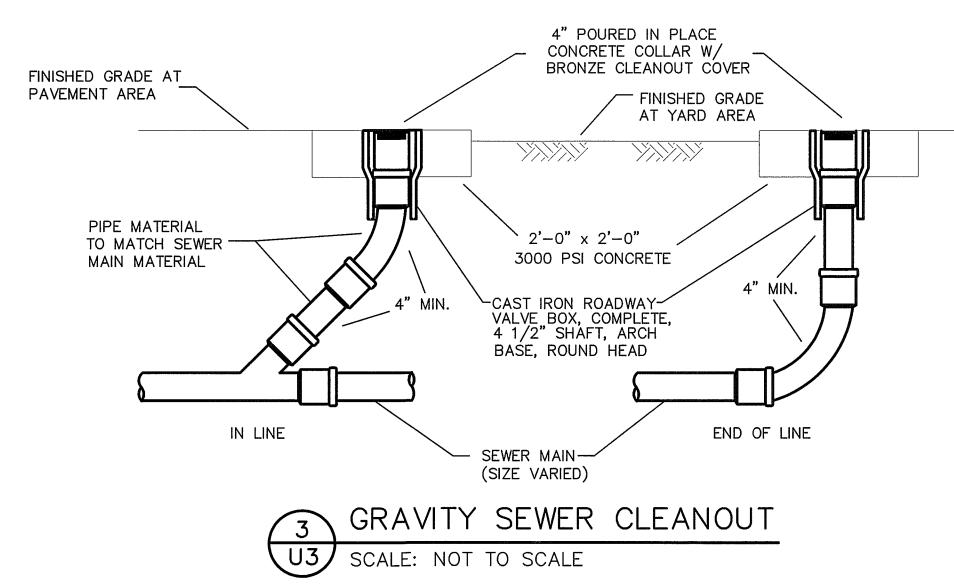
APPROVED METHOD FOR EXTENSION OF VALVE BOX



NOTE: VALVE BOX NOT TO CONTACT WATER MAIN NOR VALVE. ALL TRAFFIC CASTINGS MUST BE CLASS 35 OR GREATER DOMESTICALLY CAST. VALVE BOX SHALL BE THREADED TYPE.

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE



NOTE:

-FINISHED GRADE AT

PAVEMENT AREA

ALL SITE UTILITY WORK ON SHEETS U-1 AND U-2 WILL BE PAID FOR UNDER THEIR RESPECTIVE LUMP SUM PAY ITEMS FOR PLUMBING INSTALLATION REST AREA SERVICE BUILDING, HVAC INSTALLATION REST AREA SERVICE BUILDING, AND ELECTRICAL INSTALLATION REST AREA SERVICE BUILDING. NO SEPARATE LINE ITEMS ARE INCLUDED IN THIS PROJECT FOR SITE UTILITY WORK. COORDINATE WORK WITH ALL TRADES .

WASHINGTON COUNTREST AREA/VISITOR

TIP PROJ. NO. K-5000 41532.3.1 WBS NO. CONTRACT ID NO. FEDERAL ID NO. NHS-0064(158 REVISIONS DATE NO.

> DATE ISSUED: 12/12/12 DRAWN BY: BEB CHECKED BY: BEB

> > 2 of 2

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SHEET NO.